CITY COMMISSION WORKSHOP AGENDA

Monday, May 05, 2025 at 5:00 PM

Historic City Hall, Commission Chambers – 225 East Main Street, Suite 105

www.cityofwauchula.gov

INVOCATION

PLEDGE OF ALLEGIANCE

CALL TO ORDER

ROLL CALL

OPEN COMMISSION WORKSHOP

1. AMI Contract - Core & Main
2. ITB 25-01 Tennessee Street Roadway Improvements
3. ITB 25-02 Alabama Street Roadway Improvements
4. Food Truck Park Update

CITY ATTORNEY REPORTS

CITY MANAGER REPORT

CITY COMMISSIONER REPORTS

ADJOURNMENT

AMI Contract Between Core & Main LP and City of Wauchula, Florida

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THE CONTRACT

CONTRACT FOR ADVANCED METERING INFRASTRUCTURE (AMI), SOFTWARE AS A SERVICE (SAAS) AND NETWORK AS A SERVICE (NAAS) FOR CITY OF WAUCHULA, FLORIDA

This Contract ("Contract"), is made this ____ day of May, 2025 ("Effective Date"), by and between the City of Wauchula, a Florida municipality, 126 South 7th Avenue, Wauchula, FL 33873, (hereafter "City"), and Core & Main LP, a limited partnership authorized to conduct business in the State of Florida, (hereafter "Contractor").

RECITALS

WHEREAS, the City desires to engage a contractor that has the knowledge, skills, and experience to implement an Advanced Metering Infrastructure System ("AMI System"); and

WHEREAS, the City has solicited these services in RFP 24-05, incorporated by reference in and attached to this Contract as APPENDIX A – CITY RFP ; and

WHEREAS, Contractor represents and warrants that it is qualified and prepared to perform all the work outlined in this Contract; and

WHEREAS, pursuant to section 287.05701, Florida Statutes, the City is prohibited from, and has not requested documentation of or considered, any vendor's social, political, or ideological interests when determining whether the vendor is a responsible vendor. Moreover, the City has not given preference to any vendor based on the vendor's social, political, or ideological interests; and

WHEREAS, the City has determined that the execution of this Contract is beneficial to the people of Wauchula, Florida;

WHEREAS, the City and Contractor have negotiated and are ready to enter this Contract based on the terms and conditions set forth below.

ACCORDINGLY, in consideration of the above stated Recitals, and other good and valuable consideration the receipt and sufficiency of which is acknowledged by the Parties, the Parties agree as follows:

1. **Delivery and Installation Project:** Contractor shall commence and furnish labor, services, equipment, and hardware to fully implement an AMI System for the water and electric utilities in the City of Wauchula, Florida, in Hardee County, in a manner consistent with industry standards and applicable laws, codes, and customs according to the terms, conditions, plans, specifications, and other requirements set forth herein and identified in APPENDIX D – PRICING & PAYMENT SCHEDULE as One-Time Pricing, hereinafter referred to as the "Delivery and Installation Project". Contractor shall furnish all of the materials, supplies, tools, equipment, labor, and other services necessary for the completion of the Delivery and Installation Project.

2. **Continuing Services:** SAAS and NAAS services will be provided to the City pursuant to the APPENDIX E – Network as a service, Software as a Service and Spectrum Lease Agreement entered into between the City of Wauchula and Sensus USA, Inc. ("Sensus"), the manufacturer of the AMI system. The NaaS and SaaS services (hereinafter referred to as the "Continuing Services") are identified in APPENDIX D – PRICING & PAYMENT SCHEDULE as Recurring Pricing. Contractor, as the Value Added Reseller for Sensus, shall invoice the City for Continuing Services, and shall provide the City and Sensus ongoing technical support and troubleshooting for the system including base stations installed in the AMI System as needed during regular business hours (between 8am and 5pm, Monday-Friday), as specified herein and subject to the City's performance of its obligations specified hereunder.

   It is the responsibility of Contractor or its subcontractors to support all software integrations to the same levels noted in APPENDIX E – Network as a service, Software as a Service and Spectrum Lease Agreement throughout the multiple year term of that agreement. Any integration that ceases to function or has degraded performance resulting from a Sensus head end system or other Contractor software upgrade or patch is the responsibility of the Contractor to resolve.

   Core & Main has primary responsibility for provisions of services defined in APPENDIX E – Network as a service, Software as a Service and Spectrum Lease Agreement through Sensus. Core & Main Responsibilities include:

   a) First response labor to troubleshoot FlexNet Base Stations or other field network equipment such as repeaters, if any.

   b) First response to address City issues and escalation of NaaS and SaaS issues to Sensus when next level support is needed.

3. **Contractor Qualified:** Contractor represents and warrants that it is fully qualified to perform the services called for hereunder and possesses all State and local licenses

necessary to perform the services called for hereunder. Prior to the execution of this Contract, Contractor has visited and inspected the Project site and the local conditions under which the Project is to be designed, constructed, and operated, and Contractor has performed such tests, if any, as are necessary to determine the conditions under which the work will be performed, and Contractor accepts the conditions of the work site and has taken those conditions into account in entering into this Contract.

4. Contract Term:

a) Delivery and Installation Project. The term of the Delivery and Installation Project shall begin fifteen (15) calendar days after the date of the Notice to Proceed and will be substantially complete within twenty-four (24) months thereafter, or as such term may be extended as set forth herein (the "Delivery and Installation Term"). Upon completion and acceptance of the Delivery and Installation Project, Contractor's obligations under the Delivery and Installation Project portion of the Contract will terminate, unless otherwise provided in this Contract.

b) Continuing Services. The term of the Continuing Services shall begin after the system has successfully completed Functional System Acceptance Testing (FSAT) (as hereinafter defined) and shall continue for a period of ten (10) years (the "Initial NaaS/SaaS Term"), unless earlier terminated in the manner contemplated by this Contract. After the expiration of the Initial NaaS Term, the Continuing Services portion of the Contract shall automatically renew for an additional term of 10 years ("NaaS/SaaS Renewal Term"), unless the City provides Contractor with one hundred twenty (120) days' prior written notice of its desire to not renew the Continuing Services portion of the Contract.

5. Contract Price: Contractor agrees to perform all of the work described in the Contract Documents for the satisfactory completion of the Delivery and Installation Project for the estimated total sum of $_____, said amount being the total of the one-time project prices ("Contract Price"). The Contract Price will be adjusted to reflect actual quantities of work ordered by the City and performed by Contractor based on the unit prices herein. Contractor shall invoice the City for ongoing Continuing Services for the Initial NaaS/SaaS Term, for the total sum of $_____ ("Recurring Pricing"). Payment for Continuing Services under the Initial NaaS/SaaS Term and any NaaS/SaaS Renewal Term shall be paid in advance in annual installments, which are subject to and conditioned upon annual budgeting and appropriation by the City. Except as otherwise specified herein, the Contract Price shall not be increased in the total amount stated herein without a written change order executed by the City, nor shall the Contractor be entitled to any additional time or payment for time required for the submission and consideration

of any such change order request. This section shall not apply to work or services provided when required to alleviate an emergency condition not caused by the Contractor's actions or omissions.

The Contract Price is firm for contract quantities for the duration of the Delivery and Installation Project, and Contractor's pricing (with the exception of on-going NaaS / SaaS pricing) will expire upon final completion of the Delivery and Installation Project. The City agrees to issue a purchase order to Contractor for the entire quantity of materials required for the project within 90 (ninety) days of contract execution. Materials will be delivered during the Delivery and Installation Term. Notwithstanding the foregoing or anything contained herein to the contrary, Contractor reserves the right to increase the Contract Price at any time in the event of a manufacturer price increase caused by tariffs. Contractor will provide evidence of the actual tariff amount from Sensus and will invoice the City only the actual tariff amount without markup. Contractor will provide City with written assurance of the following:

a. Contractor shall require Sensus to utilize a blended rate for tariff surcharge calculations.
b. Tariff amount calculations exclude items such as profit, freight, and administrative costs
c. Tariff amounts shall be clearly identified on all invoices on a per line item basis. The blended rate for tariff surcharges will be uniform across all meter forms, thus this line item shall be a cumulative total of all surcharge amounts.
d. Contractor shall require Sensus to provide written notification (and a request for acknowledgment) for any new tariff surcharge, or subsequent increase or decrease to the amount of an existing tariff surcharge, in advance of any shipment of goods on which a tariff surcharge will be imposed.
e. Contractor shall require Sensus to provide documentation indicating the general range of Sensus' tariff share across all applicable products.

City reserves the right to challenge Contractor's increase in Contract Price following the same process outlined in Section 21, Notice of Claim, prior to filing any legal claim or cause of action. Notwithstanding the foregoing, in no event will Contractor be required to provide materials if the parties are unable to agree on a price increase due to tariffs. The Recurring Pricing for the Continuing Services is firm for the Initial 10 year NaaS / SaaS Term. Prices for Continuing Services for any NaaS/SaaS Renewal Term will be established prior to the start of the NaaS/SaaS Renewal Term.

6. **No General Obligation:** In no event shall any obligation of the City under this Contract be or constitute a pledge of the ad valorem taxing power of the City within

the meaning of the Constitution of the State of Florida or any other applicable laws. Neither the Contractor nor any other party shall ever have the right to compel the exercise of the ad valorem taxing power of the City in any form on any real or personal property to pay the City's obligations or undertakings hereunder.

PAYMENT: PERIODIC PAYMENTS WILL BE MADE BY THE CITY FROM INVOICES SUBMITTED TO THE CITY OF WAUCHULA, A FLORIDA MUNICIPALITY, 126 SOUTH 7TH AVENUE, WAUCHULA, FL 33873, AS PROVIDED IN ARTICLE 8, EXHIBIT OF ADDITIONAL TERMS AND CONDITIONS AND

APPENDIX D – PRICING & PAYMENT SCHEDULE, PROVIDED THAT CONTRACTOR HAS MET ALL CONDITIONS FOR PAYMENT SET FORTH IN ARTICLE 8. RETAINAGE OF FIVE PERCENT (5%), APPLICABLE TO LABOR CHARGES ONLY, WILL BE WITHHELD FROM ALL PROGRESS PAYMENTS DURING THE DELIVERY AND INSTALLATION PROJECT, IN ACCORDANCE WITH SECTION 255.078, FLORIDA STATUTES. WHEN THE DELIVERY AND INSTALLATION PROJECT IS SUBSTANTIALLY COMPLETE, CONTRACTOR SHALL SO NOTIFY THE CITY'S DESIGNATED REPRESENTATIVE IN WRITING. AS USED HEREIN "SUBSTANTIAL COMPLETION" MEANS THAT ALL REQUIREMENTS OF THE DELIVERY AND INSTALLATION PROJECT ARE COMPLETE AND ARE READY FOR USE, AS MORE PARTICULARLY DEFINED IN THE EXHIBIT OF ADDITIONAL TERMS AND CONDITIONS, ARTICLE 1, "DEFINITIONS." THE CITY WILL THEN MAKE A FINAL INSPECTION OF THE WORK WITHIN TEN (10) DAYS AFTER RECEIPT OF THE NOTICE AND DEVELOP A LIST OF ITEMS REQUIRED TO RENDER THE DELIVERY AND INSTALLATION PROJECT COMPLETE, SATISFACTORY, AND ACCEPTABLE. THE LIST SHALL BE DELIVERED TO CONTRACTOR WITHIN FIVE (5) DAYS AFTER THE INSPECTION HAS BEEN COMPLETED. CONTRACTOR SHALL CORRECT THE ITEMS ON THE LIST WITHIN THIRTY (30) DAYS AFTER DELIVERY OF THE LIST AND NOTIFY THE CITY WHEN THE CORRECTIONS HAVE BEEN COMPLETED. THE CITY, UPON CONFIRMING THAT ALL ITEMS HAVE BEEN CORRECTED, WILL THEN ISSUE FINAL PAYMENT FOR THE DELIVERY AND INSTALLATION PROJECT, INCLUDING PAYMENT OF RETAINAGE, IN ACCORDANCE WITH ARTICLE 8, EXHIBIT OF ADDITIONAL TERMS AND CONDITIONS AND

7. APPENDIX D – PRICING & PAYMENT SCHEDULE. As a condition precedent to Final Payment by the City, Contractor must provide the City a Consent of Surety to final payment, an affidavit by Contractor identifying all subcontractors, laborers, or equipment or material suppliers who provided goods or services in connection with the Project and provision of separate releases of lien or lien waivers in form acceptable to the City from each subcontractor, and copies of product warranties, operating manuals and instruction manuals if not previously provided.

8. **Payment Not a Waiver or Acceptance:** No payment to Contractor, nor any use or occupancy of the Project by the City, shall be interpreted or construed to constitute acceptance of any work not in strict compliance with the Contract, and Contractor expressly accepts the risk that defective work may not be detected (1) during any inspection by the City, (2) prior to making of any payment to Contractor, or (3) before the City's final payment.

9. **Claims of Subcontractors:** All work performed hereunder shall be accomplished in a manner that will result in no liens, claims or encumbrances being imposed on the City's property or suits for payment brought against the City. Contractor shall ensure prompt payment of all subcontractors and materialmen utilized by Contractor on the Project. In the event any materialman or subcontractor of Contractor should file any lien on the property of the City or otherwise file a claim for payment against the City, Contractor shall obtain the release and satisfaction of the lien or claim within ten (10) days of its filing to the extent Contractor has been paid for its Work giving rise to the claim.

10. **Entire Contract, Contract Documents:** This Contract, including the Contract Documents as defined below, contains all the understandings and agreements of the parties hereto in respect of the subject matter hereof as of the Effective Date of the Contract. Any and all prior understandings and agreements, expressed or implied, between the parties hereto in respect of the subject matter hereof shall be superseded hereby. Parol or extrinsic evidence will not be used to vary or contradict the express terms of this Contract.

The term "Contract Documents" means and includes the following, which are hereby incorporated by reference and made a binding part of this Contract:

a) The Contract and all Sections thereunder
b) Exhibit of Additional Terms and Conditions
c) APPENDIX A – CITY RFP
d) APPENDIX B – Contractor Proposal
e) APPENDIX C – Initial project schedule

f) APPENDIX D – PRICING & PAYMENT SCHEDULE
g) APPENDIX E – Network as a service, Software as a Service and Spectrum Lease Agreement
h) APPENDIX F – WARRANTIES
i) APPENDIX G – RMA Process

In the event of inconsistency or ambiguity among any of the Contract Documents, the documents shall control the others in the above order of priority except Appendix B shall supersede and control over Appendix A.

11. **Complete Agreement:** This Contract, together with the Contractor's and Surety's performance and payment bonds for the Delivery and Installation Project, if any, constitute the entire and exclusive agreements between the City and Contractor with reference to the Project. This Contract supersedes any and all prior documents, discussions, communications, representations, understandings, negotiations, or agreements by and between the parties.

12. **Assignment:** This Contract may not be assigned except at the prior written consent of the City, and if so assigned, shall be binding upon the successors and permitted assigns of Contractor.

13. **Statutory Disclosures:**

a) **Solicitation of Contract:** Contractor warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for Contractor, to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for Contractor, any fee, commission, percentage, gift, or other compensation contingent upon or resulting from the award or making of this Contract.

b) **Public Entity Crime:** As provided by Florida Statute 287.133(2)(a), a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or a public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute 287.017 for Category Two for a period of 36 months from the date of being placed on the convicted vendor list. Any person must notify the City within 30 days after a conviction of a public entity crime applicable to

that person or to an affiliate of that person. By its execution hereof, Contractor certifies that neither it nor an affiliate is on the convicted vendor list.

c) **Scrutinized Companies List/Countries of Concern/Interests of Foreign Countries:** Contractor hereby certifies that it: (a) has not been placed on the Scrutinized Companies that Boycott Israel List, nor is engaged in a boycott of Israel; (b) has not been placed on the Scrutinized Companies with Activities in Sudan List nor the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and (c) has not been engaged in business operations in Cuba or Syria. This Contract may be terminated at the option of the City if the Contractor is found to have submitted a false certification as provided under Florida Statute 287.135(5), been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or been engaged in business operations in Cuba or Syria.

d) **Anti-Trust Vendor Violator**: The Contractor has a continuous duty, throughout the entire Contract Term identified in Section 4, and any renewal, to disclose to the City if the Contractor or any of its affiliates, as defined by section 287.137(1), Fla. Stat., are placed on the Antitrust Violator Vendor List. Pursuant to section 287.137, Fla. Stat., "A person or an affiliate who has been placed on the antitrust violator vendor list following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply for any new contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply for a new contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on new leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a new contract with a public entity; and may not transact new business with a public entity."

14. **Administration of Contract:** The City Manager, or her designated representative, shall administer this Contract for the City. No change in the Contract scope or payment shall be valid without prior written approval by the City Manager.

15. **Notices:** Any notices hereunder shall be provided by hand delivery, certified U.S. Mail (return receipt requested) or by a nationally recognized delivery service (with proof of delivery) to the other Party in writing at the address specified in the opening section hereof. All notices shall be effective upon receipt delivered to the address of the party set forth below:

If to City: City of Wauchula

ATTN: Stephanie Camacho, City Clerk
126 South 7th Avenue
Wauchula, Florida 33873

With copy to: GrayRobinson, PA
ATTN: Kristie Hatcher-Bolin
One Lake Morton Drive
Lakeland, Florida 33801

If to Contractor: Core & Main LP
Attn: District Manager
3216 Winter Lake Road, Bays 5-10
Lakeland, FL 33803

With copy to: Legal Department
Core & Main LP
1830 Craig Park Court
St. Louis, MO 63146

16. Choice of Law, Venue, and Waiver of Jury Trial

A. This Contract, and the rights and duties of the parties arising from or relating to this Contract or its subject matter, shall be construed in accordance with the laws of the State of Florida and the ordinances of the City of Wauchula without regard to its conflicts of law provisions. Each of the parties irrevocably submits to the exclusive jurisdiction of the courts of Hardee County, Florida, and further agree that the venue for any legal action brought by or filed against the City for any matter arising out of or relating to this Contract shall be exclusively in that state or federal court for Hardee County, Florida that has jurisdiction over such legal actions.

B. WAIVER OF JURY TRIAL. BY ENTERING INTO THIS AGREEMENT, THE CONTRACTOR AND THE CITY HEREBY EXPRESSLY AND IRREVOCABLY WAIVE ANY RIGHTS THEY MAY HAVE TO A TRIAL BY JURY IN ANY LITIGATION ARISING OUT OF OR RELATED TO THIS AGREEMENT.

17. Amendments: No amendment or variation from the terms or conditions of this Contract shall be valid unless in writing and signed by the parties.

18. Indemnity: The parties agree that 1% of the total compensation paid to the Contractor for the services provided under this Contract constitutes specific consideration to the Contractor for the indemnification provided as set forth in the Exhibit of Additional Terms and Conditions, Article 6.

19. Contractor to Repair Property Damage Caused by the Contractor: Contractor agrees to promptly repair and/or replace, or cause to have repaired and/or replaced, at its sole cost and expense and in a manner acceptable to and approved by the City, any property damage caused by, the willful or negligent acts of the Contractor, or of its subcontractors. The Contractor's obligation under this section does not apply to property damage caused by any other Contractor engaged directly by the City. The City reserves the right, should the Contractor fail to make such repairs and/or replacement within a reasonable period of time, to cause such repairs and/or

replacement to be made by others and for all costs and expenses associated with having such repairs and/or replacement done to be paid for by the Contractor, or by the Contractor reimbursing the City for all such costs and expenses.

20. **Notice of Claim:** All Contractor claims hereunder, including without limitation, claims in respect of changes in the Contract Price or Contract Time, shall first be submitted to the City by a written notice of claim no later than (30) days after the event that caused the claim. The written notice of claim shall set forth in detail all known facts and circumstances supporting the claim, which shall include at least the following information: (1) a concise statement of the occurrence(s) supporting the claim, and the relief sought; (2) identification of the facts giving rise to the claim; (3) the date Contractor discovered the occurrence(s); (4) a detailed schedule of values identifying all costs resulting from the claim; (5) documentation supporting the schedule of values (except in no event will Contractor be required to provide documentation revealing its margins or other confidential information); and (6) identification of any impact the claim on the schedule. Contractor shall submit available information or documents to the City within ten (10) business days after written request by the City. Contractor shall provide, and continue to provide the City all such documentation, if available, as the City may request so that the City may evaluate Contractor's claim. The City shall have 60 days from the notice of claim to resolve the Contractor's claim. The resolution of any claim under this Section 21 shall be reflected by a change order executed by the City and Contractor. In no event will Contractor be required to proceed with changed work in the absence of an agreed change order between the parties. Contractor reserves its right to seek relief through dispute resolution in the event City and Contractor are unable to agree on a change order through the process as aforesaid.

21. **Duty to Continue Performance**: Throughout the entire Contract Term identified in Section 4, and any renewal, Contractor and the City shall continue their performance hereunder regardless of the existence of any claims submitted by Contractor.

22. **Limit of the City's Liability for Increased Costs**: In connection with any claim by Contractor against the City for compensation in excess of the Contract Price, any liability of the City shall be strictly limited to amounts agreed by the parties in accordance with the provisions regarding changes in the Contract Price as set forth in Section 5 above and EXHIBIT D - PRICING & PAYMENT SCHEDULE and, consistent with Article 10, of the Exhibit of Additional Terms and Conditions, and shall in no event include indirect, special, or consequential costs, expenses or damages of Contractor or its subcontractors. The City shall not be liable to Contractor for claims of third parties, including subcontractors, for acts, omissions, events, or conditions for which the City would not be liable to Contractor under the terms of the Contract. As a condition precedent to the City's liability to Contractor for any loss or damage resulting from claims of third parties, including subcontractors, such third parties must have complied with all conditions contained in their agreements with

Contractor and such subcontractor's claims must have been submitted to the City by Contractor in strict compliance with all the requirements of this Contract.

23. **Compliance with Labor Laws:** Contractor shall assume all labor responsibility for all personnel assigned to or contracted for the performance of the work and agrees to strictly comply with all its obligations as employer with respect to said personnel under all applicable labor laws of the State of Florida and the United States of America.

24. **Site Safety and Security:** Contractor shall take all reasonable steps and legally required measures at the site to comply with applicable safety regulations and standards and to adequately protect the work, stored materials, and temporary structures located on the premises. Contractor shall at all times safeguard the City's property and employees and citizens from injury or loss in connection with the performance of the Contract. Contractor shall at all times while performing work, safeguard and protect its own work and that of the adjacent property and all adjacent work from damage.

25. **Cleaning the Site:** Contractor shall keep the site reasonably clean during performance of the work. Upon final completion of the work, Contractor shall thoroughly clean the site and the Project and remove all waste, debris, trash and excess materials or equipment, together with Contractor's property therefrom.

26. **Change of Control:** Contractor shall not assign any of its rights or obligations under the Contract without the City's express written consent, which consent shall not be unreasonably withheld. Any such action without the requisite consent is a material breach of the Contract. Subject to the foregoing, the Contract inures to the benefit of and is binding upon the parties and their successors and permitted assigns.

27. **Rights and Remedies:** The rights set forth in this Contract are in addition to, and without prejudice to, any other rights or remedies the parties may have against the other party, including the right to pursue court action for breach of contract.

28. **Nonaction on Failure to Observe Provisions of this Contract.** The failure of the City or the Contractor to promptly insist upon strict performance of any term, covenant, condition or provision of this Contract or any exhibit or any other Contract contemplated hereby, shall not be deemed a waiver of any right or remedy that the City or the Contractor may have, and shall not be deemed a waiver of any subsequent default or nonperformance of such term, covenant, condition, or provision.

29. **Public Records Requirements**. The parties acknowledge and agree that the CITY is a public agency subject to Chapter 119, Florida Statutes. All documents, including but not limited to, letters, memos, e-mails, computer files, photographs, drawings, tracings, plans, specifications, maps, evaluations, reports and other records and data of any type relating to the Project received, prepared, or developed by Contractor under this Contract are public records subject to Florida Statutes Chapter 119 and shall not be destroyed. Accordingly, pursuant to Section 119.0701, Florida Statutes, the Contractor must comply with all public records laws in accordance with Chapter 119, Florida Statutes. In accordance with Chapter 119, Florida Statutes, the Contractor agrees to:

(1) Keep and maintain all records that ordinarily and necessarily would be required by the Owner to perform the services under this Contract.

(2) Upon request from the CITY, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the costs provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

(3) Ensure that public records that are exempt, or confidential and exempt, from public records disclosures are not disclosed as except as authorized by law for the duration of the Contract term and following completion of the Contract if the Contractor does not transfer the records to the CITY.

(4) Upon completion of the services under this Contract, at no cost to the CITY, either transfer to the CITY all public records in the Contractor's possession that were not previously provided or keep and maintain public records required by the City to perform the services. If the Contractor transfers all public records to the City upon completion of the services, the Contractor must destroy any duplicate public records that are exempt, or confidential and exempt, from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the services under this Contract, its obligations shall survive the termination or expiration of the Contract, and the Contractor must meet all applicable requirements for retaining public records, including abiding by all State of Florida records retention schedules. All records stored electronically must be provided to the CITY, upon request from the CITY, in a format that is compatible with the information technology systems of the CITY.

(5) IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE OWNER'S CUSTODIAN OF PUBLIC RECORDS AT: __ Stephanie Camacho, City Clerk, via email: scamacho@cityofwauchula.com._____

If the Contractor does not comply with the provisions of this section, the CITY will enforce the Contract provisions in accordance herewith and may unilaterally cancel this Contract in accordance with Florida law.

30. **E-Verify:** The City will not intentionally award contracts to any contractor who knowingly employs unauthorized alien workers, constituting a violation of the employment provisions contained in 8 U.S.C. Section 1324 a(e), Section 274A(e) of the Immigration and Nationality Act ("INA"). The Contractor must comply with Florida Statutes 448.095(2), and shall comply with the requirements to use the E-Verify System to verify the employment eligibility of all new employees hired by the Contractor during the term of the Contract as more specifically set forth in Exhibit of Additional Terms and Conditions, Article 6, paragraph 18.

31. **Trade Secrets and Proprietary Confidential Business Information**:

a) Documents submitted by Contractor which it contends constitute trade secrets as defined in Sections 812.081 and 688.002, Florida Statutes, or confidential and propriety business information when held by the CITY as a utility owner, consistent with Section 119.0713(5), Florida Statutes, or information related to cybersecurity that is exempt and confidential under Section 119.0725, Florida Statutes, and which are clearly marked or stamped as confidential by the Contractor at the time of submission to the CITY, will not be subject to public access. Except as may be required under applicable law, court order, or regulation, or to the extent required to perform and enforce this Contract, both parties shall (and shall cause their employees and contractors to) keep all Confidential Information strictly confidential and shall not disclose it to any third party. The Confidential Information may be transmitted orally, in writing, electronically or otherwise observed by either party. However, should a requestor of public records challenge Contractor's claim of trade secret or confidential and proprietary business information, within five (5) calendar days of such challenge, Contractor must provide a separate written affidavit and a separate indemnification and release guarantee, as approved by the CITY's Attorney or designee, to the CITY to support its claim that the alleged trade secrets or proprietary and confidential business information actually constitutes same as defined by law. Contractor must demonstrate the need for confidentiality of the documentation by showing a business advantage or opportunity to obtain an advantage would be gained if the documentation were released. Otherwise, Contractor is required to timely seek a protective order in the Circuit Court of Hardee County to prevent the CITY's release of the requested records.

b) "Confidential Information" means all non-public information of either party, including the terms of this agreement, all technical information about either party's

products or services, pricing information, marketing and marketing plans, Customer's End Users' data, AMI System performance, AMI System architecture and design, AMI System software, other business and financial information of either party and all trade secrets of either party. Notwithstanding the foregoing, "Confidential Information" shall not include (i) any information that is in the public domain other than due to Recipient's breach of this Contract; (ii) any information in the possession of the Recipient without restriction prior to disclosure by the Discloser; or (iii) any information independently developed by the Recipient without reliance on the information disclosed hereunder by the Discloser. "Discloser" means either party that discloses Confidential Information, and "Recipient" means either party that receives it.

c) To the extent Contractor regards certain terms and provisions of this Contract to contain data or information that is covered by one or more of the following: (1) information related to critical infrastructure, and (2) network schematics, hardware and software configurations, or encryption information or information that identifies detection, investigation, or response practices for suspected or confirmed cybersecurity incidents, Contractor must clearly mark such provisions as confidential and exempt. To the extent such terms and provisions are clearly marked as confidential and exempt from public record law requirements, the parties agree to treat the terms and conditions in accordance with the provisions of Section 31, Paragraph a) above.

32. **No Obligation to Third Parties:** No party to this Contract shall have any responsibility whatsoever with respect to services provided or contractual obligations assumed by the other party to third parties, and nothing in this Contract shall be deemed to contemplate either party as a partner, agent, or representative of the other party. The parties specifically intend that no third party have any rights hereunder.

33. **Severability:** In the event that any portion or any portions of this Contract are held to be unenforceable by a court of competent jurisdiction, then the remainder of this Contract shall be enforced as though such portions had not been included, unless to do so would cause this Contract to fail of its essential purposes.

34. **Survival:** All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, shall survive final payment, completion, and acceptance of the Work, or termination or completion of the Contract. Additionally, the obligations set forth in Section 6, No General Obligation; Section 9, Claims of Subcontractors; Section 10, Contract Documents; Section 12, Assignment; Section 15, Notices; Section 16, Choice of Law, Venue, Waiver of Jury Trial; Section 18, Indemnity; Section 20, Notice of Claim; Section 22, Limit of the City's Liability for Increased Costs; Section 26, Change of Control; Section

27, Rights and Remedies; Section 31, Trade Secrets and Proprietary and Confidential Business Information; Article 6, Section 5, Infringement Indemnity, and Section 16, Indemnification.

35. Suspended or Debarred Vendors: The City does not award contracts to or consent to subcontracts with suspended or debarred vendors, unless the City Manager has determined that an emergency exists justifying such action and obtained approval from the Commission. Such vendors are also excluded from conducting business with the City as agents, representatives, subcontractors, or partners of other vendors. Furthermore, subsequent suspension or debarment may constitute grounds for termination of this Contract.

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IN WITNESS WHEREOF, the Parties hereto have executed, or caused to be executed by their duly authorized officials, this Contract in two originals, effective on the date first above written.

"City"

ATTEST:

CITY OF WAUCHULA, FLORIDA

By:

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: _____

By:

"Contractor"

CORE & MAIN LP

By: _____

Confidential

EXHIBIT OF ADDITIONAL TERMS AND CONDITIONS

ARTICLE 1 - DEFINITIONS

The following definitions shall apply:

AMI – Means Advanced Metering Infrastructure and is comprised of the SmartPoint Modules, meters, RF Field Equipment, Hosted Software, Spectrum Lease, and other equipment provided to Customer hereunder. The AMI System only includes the foregoing, as provided by Sensus.

Available Meter – Means an installed Sensus FlexNet meter (with a SmartPoint Module installed) or a Sensus SmartPoint Module which has been installed on a third party meter, and which, in either case, is not an Unavailable Meter (or on an Unavailable Meter in the case of SmartPoint Modules on third party meters) and which satisfies all of the following criteria: (i) it functions properly, is powered and is not a damaged or failed meter; (ii) it is in a deployment area of meters for Customer such that a sufficient number of two-way meters are in range of each other; (iii) it is serviced by RF Field Equipment that has not been subjected to a power failure greater than eight (8) total hours; (iv) neither it nor the RF Field Equipment that serves that meter has been affected by a Force Majeure event; (v) jamming of the radio spectrum is not preventing or interfering with radio communication to or from the meter; (vi) it is installed in the Service Territory; (vii) it has not been reported to Customer under Contractor' or Customer's preventative maintenance; (viii) its functioning or performance has not been adversely affected by a failure of Customer to perform its obligations or tasks for which it is responsible under this Contract, including, but not limited to, testing and confirming that the socket to which the meter will be/is connected is in safe operating condition, is fully functional, is not corroded, does not contain improperly installed jaws or other deficiencies, complies with ANSI standards, and is not hot, damaged, or otherwise in need of maintenance or repair; (ix) its functioning or performance has not been adversely affected by a failure or insufficiency of the back haul telecommunications network of Customer for communications among the components of the Sensus FlexNet System; and (x) it has been installed in compliance with the procedures and specifications approved by Customer and Contractor.

Change Order – A written order issued by the City after execution of the Contract to the Contractor, as may be recommended by the Engineer, signed by the City and authorizing an addition, deletion, or revision of the Work, or an adjustment in the Contract Price or the Contract Time. An executed Change Order resolves all issues related to price and time for the work included in the Change Order.

CIS – The City's existing Customer Information System.

City – The City of Wauchula (City), Florida.

Continued Deployment – Ongoing deployment of meters and AMI devices after the completion of the project.

Contract Documents – All documents set forth in the executed agreement.

Customer – when capitalized, refers to the City of Wauchula (City), Florida (Contractor's customer). When used with a lower case "c" it generally refers to the City's customer.

End User – any end user of electricity or water where the City provides for the consumption of electricity or water.

Engineer – The individual assigned by the City (either an employee or a third party), who is a licensed professional engineer in the State of Florida, to provide engineering, design review, and/or construction management including, but not limited to, overseeing and resolving engineering/design issues with the Engineer for the Work, and conveying the City's instructions to the Contractor.

The Engineer's authority includes interpreting the technical portion of the Contract Documents, deciding on matters relating to the execution and progress of the Work and evaluating the Contractor's performance. The Engineer may stop the Work when deemed necessary by the City. The Engineer will receive and adjudicate any claim of ambiguity or error in the technical portion of the Contract Documents and shall reduce any determination to writing and shall make a recommendation to the City. The Engineer is not a party to the Contract. The Engineer has no authority to approve changes to the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator.

Field Devices – the SmartPoint Modules and meters equipped with SmartPoint Modules.

Final Acceptance -- The City's written notice to the Contractor that all Work as specified in the Contract has been completed to the City's satisfaction. Approval or recognition of the Contractor meeting a milestone or interim step does not constitute Final Acceptance of the Work. Final Acceptance is only applicable to the entirety of Work as specified in the Contract. Final Acceptance does not in any way limit the City's rights under the Contract or applicable laws, rules and regulations.

Final Completion -- The point in time after which the City has accepted the Work, in accordance with the Contract Documents, and the Contractor has fulfilled all requirements of the Contract Documents including successful System Acceptance Test results approved by the City.

FlexNet Base Station – identifies the Sensus manufactured device consisting of one transceiver, to be located on a tower that receives readings from the SmartPoint Modules (either directly or via an R100 unit) by radio frequency and passes those readings to the RNI by TCP/IP backhaul communication. For clarity, FlexNet Base Stations include Metro Base Stations.

Force Majeure – an event beyond a party's reasonable control, including, without limitation, acts of God, hurricane, flood, volcano, tsunami, tornado, storm, tempest, mudslide, vandalism, illegal or unauthorized radio frequency interference, strikes, lockouts, or other industrial disturbances, unavailability of component parts of any goods provided hereunder, acts of public enemies, wars, blockades, insurrections, riots, epidemics, pandemics (including Covid19), earthquakes, fires, restraints or prohibitions by any court, board, department, commission or agency of the United States or any States, any arrests and restraints, civil disturbances and explosion.

Functional Verification – Work performed as part of the System Acceptance Test to verify that the system is functioning as specified.

Hosted Software – means those items listed as an application in ***APPENDIX E –*** **Network as a Service, Software as a Service and Spectrum Lease Agreement**

In/Out Costs – means any costs and expenses incurred by the City in transporting goods between its warehouse and its End User's premises and any costs and expenses incurred by the City in installing, uninstalling and removing goods at End User's premises.

Intellectual Property – means patents and patent applications, inventions (whether patentable or not), trademarks, service marks, trade dress, copyrights, trade secrets, know-how, data rights, specifications, drawings, designs, maskwork rights, moral rights, author's rights, and other intellectual property rights, including any derivations and/or derivative works, as may exist now or hereafter come into existence, and all renewals and extensions thereof, regardless of whether any of such rights arise under the laws of the United States or of any other state, country or jurisdiction, any registrations or applications thereof, and all goodwill pertinent thereto.

NaaS – Network as a Service. Refers to services provided by Sensus to own and manage the RF Field Equipment.

Notice to Proceed -- The written notice duly authorized and delivered by the City that authorizes the Contractor to begin Project Work. When indicated by the City, a PO may also serve as a Notice to Proceed.

Owner's Engineer – A consultant engaged to represent the City on technical matters during the project.

Parties – The companies that are party to this agreement, the City and Contractor.

Payment Bond – The statutory Performance Bond contemplated by Section 255.05, Florida Statutes.

Performance Bond -- The statutory Payment Bond contemplated by Section 255.05, Florida Statutes.

Permitted Use – means only for reading and analyzing data from the City's Field Devices in the Service Territory. The Permitted Use does not include reading third party devices not provided by Contractor or reading Field Devices outside the Service Territory.

Project Deployment – Refers to the time in which the systems and devices described in this agreement are being actively deployed, prior to final acceptance of the system.

Project Manager – The primary contact for each company during Project Deployment. The City and Contractor will each designate a Project Manager.

Project Services – The services that Contractor is obligated to provide to the City under this agreement during the Project Deployment.

Return to Utility (RTU) – The process used when the installer discovers an anomaly at the site and needs advice or assistance from the City before the installation work can be completed.

Purchase Order (PO) – A Work authorization document issued by the City with the words "Purchase Order" clearly marked across the top, a PO number used for reference shown on the front, a description of the Work or a listing of the applicable Contract Documents, an authorized City signature and stating the amount of lawfully authorized funds.

RF Field Equipment – Collectively, FlexNet Base Stations, R100 units (if any) and remote transceivers (if any)

RMA – Return material authorization. Refers to the process that the City uses when they wish to return defective products as further described in APPENDIX G – RMA Process

SaaS – Software as a Service. Refers to services provided by Sensus to own and manage head end software and its associated hardware on an ongoing basis as further described in APPENDIX E – Network as a service, Software as a Service and Spectrum Lease Agreement**.**

Sensus – identifies the Contractor's AMI technology manufacturer/sub-supplier.

Service Territory – identifies the geographic area where the City utilizes Sensus equipment to provide services to End Users as of the Effective Date. This area will be described on the propagation study in the parties' Spectrum Lease filing with the FCC.

SmartPoint™ Modules – identifies the Sensus transmission devices installed on devices such as meters located at the City's End Users' premises that communicate with the relevant devices and transmit those communications by radio frequency to the relevant piece of RF Field Equipment.

Software – all the Sensus proprietary software provided pursuant to this Contract, and any patches, updates, and upgrades that are provided to the City pursuant to the terms of this Contract. The Software does not include any third-party software provided by manufacturers other than Sensus.

SOW – Statement of Work. See ARTICLE 2 - STATEMENT OF WORK & SCHEDULE.

Standard Operating Procedures (SOPs) – Procedures applied by Contractor to work performed in the field.

Substantial Completion –The time when the Owner determines that the Work (or a specified part thereof) is sufficiently complete to be utilized for the purposes for which it is intended or ready for the City or other contractors to perform subsequent portions of the Work as stated in the Contract Documents. Recognition of the Work as Substantially Complete, as evidenced by issuance of a Certificate of Substantial Completion, does not represent the City's Final Acceptance of the Work.

System Administrator – the City employee responsible for managing access to the AMI system software.

Unavailable Meter – Includes meters with sockets with power cut at the pole, meters that are booted on the line side, sockets that are not provided power due to a power delivery system failure, meters with tamper, theft or other human induced failures that render the meter or SmartPoint Module incapable of providing a read, a Force Majeure event induced failures of the power delivery system, socket or meter, and/or any system or meter maintenance issue that precludes the meter from transmitting its message to the network. Examples of Unavailable Meters include: (i) Cut At Pole: a meter for which power has been turned off to the socket by Customer; (ii) Booted on Line Side: nominally a meter for which power has been turned off by placing boots in the socket from which the power to the meter has effectively been turned off; (iii) Failed or flawed power delivery to the meter socket: Customer power generation, distribution or delivery system failure that has effectively turned off power to the socket and/or meter; (iv) Tampered Meters: sockets, meters or distribution assets that have been modified by unauthorized personnel rendering the meter incapable of providing accurate usage readings from that meter;(v) Broken TouchCoupler unit: the TouchCoupler unit is damaged by intentional or unintentional acts; (vi) Broken Clip: the clip that holds the TouchCoupler unit into the radio package housing is broken and the unit cannot complete the inductive electrical connection; (vii) Improper installation of the TouchCoupler unit: the TouchCoupler unit is not pushed all the way into the housing clip causing the unit to not be able to complete the inductive electrical connection; (viii) Unit not installed through the pit lid: the unit is not installed with the antenna positioned through the pit lid and properly secured with the retaining nut. The radio unit must also be securely attached to the antenna section; (ix) Radio unit not securely attached to the Antenna unit: The water-proof SmartPoint Module housing is not properly installed and secured to the antenna unit; (x) Damaged antenna: the unit's antenna is damaged by intentional or unintentional acts; (xi) Damaged radio package: the unit's water-proof radio package is damaged by intentional or unintentional acts; (xii) Data Base errors: the unit is removed from the system but not updated in the database. Still shown as in the system when in fact has been removed; (xiii) Phantom Units: the unit is removed from the system but is still transmitting and being heard by the system; and (xiv) Other Installation Defect: the unit is otherwise installed improperly so that it does not communicate with the FlexNet Base Station.

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WOMS – Work order management system.

WOM System – See WOMS.

ARTICLE 2 - STATEMENT OF WORK & SCHEDULE

This Statement of Work ("SOW") is all work to be completed by Contractor (and its subcontractors) as set forth in this Contract for the successful implementation of a Sensus FlexNet Advanced Metering Infrastructure (AMI) system.

This SOW applies to the project encompassing the installation, setup, and deployment of the AMI System.

Both Parties agree to this SOW and its content.

Project Organization

a) City Responsibilities

Prior to the start of the project, the City will designate a person (Quanta Technology serving as the City's Project Manager) to whom all communications from Contractor will be addressed, and who will have the responsibility to act on the City's behalf in all matters regarding this SOW.

The City's Project Manager will:

- Serve as the interface between Contractor' project team and all of the City's departments and other City contractors participating in the AMI project;
- Attend status meetings;
- Obtain and provide applicable information, data, consents, decisions and approvals as required by Contractor to complete their responsibilities, within a reasonable time frame;
- Help resolve project issues, and escalate issues within the City's organization, as necessary;
- Work with Contractor sales to complete meter and configuration forms in timely manner to facilitate the hardware ordering process; and
- Support the project change order procedure in a timely manner.

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In addition, the City will provide access to the following personnel as needed during the project:

- Field Point(s) of Contact: Generally, a foreman or superintendent who can answer or approve general day-to-day inquiries that may arise as work progresses. This may be one person from the Water department and another from Electric.

- Finance / Billing Manager: Generally, the person who oversees monthly utility billing efforts and serves as a contact to Tyler for the billing software. This person should be available to answer integration questions and verify read data. The Contractor Project Manager will coordinate with this person prior to mass deployment to implement the cut-over plan and ensure that billing operations are not adversely impacted.

- IT Staff: Involvement may be required depending on backhaul configuration and end user's computer configuration (browser). Involvement and participation in integration efforts is recommended and may be required in some cases.

Customer has primary responsibility for field endpoint maintenance. If Customer follows all field investigative measures to diagnose the issue and they are unsuccessful in their repair attempt Core & Main will assist the Customer in diagnosing issues with its field staff subject to the following conditions:

1) After the initial on-site training Contractor will provide one refresher training to the City instate or online for no charge to the City. Should the City desire on-site training or customized training after the onsite project training, Contractor will provide this customized training for a fee.

2) If the City requests that Contractor travel to its location specifically to diagnose a meter issue and it is determined that the City is not following the field protocol for which it has been trained and the issue is resolved by merely following repair protocols and retraining the City's personnel, Contractor reserves the right to charge the City a trip fee.

3) Contractor will provide follow up spot training for field maintenance when Contractor's technician is in the area, and on a mutually acceptable schedule at no-charge to the City.

b) Contractor Responsibilities

Prior to the start of the project, Contractor will designate a person ("Contractor Project Manager") to whom all communications from the City will be addressed, and who will have the authority to act on Contractor's behalf in all matters regarding this SOW. The Contractor Project Manager shall be a person who is employed full-time by Contractor as a project manager.

Contractor Project Manager will:

- Serve as the interface between Contractor' project team (including their subcontractors) and the City's Project Manager;

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- Review the SOW, and any associated documents, with the City's Project Manager;
- Facilitate the project kickoff and planning meeting;
- Establish and maintain communications through the City's Project Manager, as defined in the section entitled "Project Procedures" below;
- Review and administer the Project Change Order Procedure with the City's Project Manager, as defined in the section "Project Procedures" below;
- Coordinate and manage the project activities of Contractor' assigned personnel;
- Create and maintain the project schedule ensuring weekly progress updates are reflected throughout the project implementation period.
- Maintain an action items list on an ongoing basis throughout the duration of the project and insure timely completion of action items;
- Maintain a central repository for project documents and provide appropriate access to this repository for all project stakeholders.
- Provide status reports and facilitate status meetings as agreed including prompt issuance of status meeting notes/minutes.

c) Travel

Project work is to be performed both on-site and remotely as necessary. Contractor personnel will be on-site for the project planning/kickoff meeting, for system training, as needed to support the functional verification testing (FSAT), and as mutually agreed to with the City.

d) Project Deployment

Contractor will provide active management of the project by a Contractor Project Manager. The Project Manager and project team are required to be highly skilled and involved in day-to-day coordinating efforts for task completion and approved in advance by the City.

e) Subcontractors

Contractor is responsible for the work of all subcontractors that it employs. Contractor will use the following subcontractors:

- Bermex – electric and water meter installation.
- L&S - Network equipment installer

- WeProject, Inc. – project management support

The foregoing subcontractors are hereby approved by the City. Any other subcontractors must be approved in writing in advance by the City. The meter installation subcontractor shall use a single Work Order Management System (WOMS) for capturing and transferring electric and water meter exchange data to the City's billing system. A single Call Center shall be established and utilized during the installation.

2) Project Procedures

Project procedures describe communications, interface requirements, and means to control the activities between the City and the Contractor project team. Contractor will use best practices for project deployment which will be agreed upon by the City prior to deployment.

a) Project Review Meetings

The City and Contractor are required to participate in project review meetings that cover:

- status and schedule reviews,
- coordination of the City's and Contractor's scope activities,
- exchange of technical information, and
- design reviews of future work to be performed by the project team.

These meetings will include the City and Contractor personnel as required to address the key issues. To the extent possible, meetings will be conducted via conference calls or video conferencing. The Contractor and the City project managers will mutually agree upon the frequency of these project meetings. The Contractor and the City project managers will also mutually agree to the timing, frequency, and location of any face-to-face meetings.

b) Transmittal Reviews

The City and Contractor each will review and respond promptly to all questions and correspondence to each other and when practicable within five (5) business days of submittal.

c) Demobilization

Following successful completion of meter installations and acceptance, any leftover material purchased by the City will be returned to the City for shelf stock. Any rented

storage or restroom facilities will be returned. Any City facilities utilized by installation staff will be left in a tidy presentable state.

3) Project Schedule

Contractor, City, and Owner's Engineer will develop a mutually agreeable project schedule within 2 weeks post the project kickoff. A sample schedule is provided in ***APPENDIX C – Initial project schedule*****.**

ARTICLE 3 - DELIVERABLES

1) All materials purchased by the City are shipped to the City and shall be stored in Contractor-supplied storage containers with access locks for storage and disposal of inventory located in a secured fenced location supplied by the City. Contractor shall receive and inspect inventory, noting any shortages or damages on a signed Bill of Lading. All received inventory will be loaded into WOMS by way of an inventory file or by way of bar-code scanners. The City reserves the right to sample test any lot shipment received. Notwithstanding the foregoing, risk of loss and title to the materials shall pass to the City upon delivery to a location specified by the City, excluding the meters and endpoints delivered for the Project. Risk of loss and title of project meters and endpoints shall remain with the Contractor until successfully installed and initially readable from the head-end system, at which time title to the system, risk of loss and obligations for maintenance will then immediately transfer to the City. Contractor agrees to protect equipment or materials in the custody or control of Contractor or its Subcontractor and to be responsible for any damage or loss occasioned by its failure to do so.

2) Customer Engagement Program

a) "AMI Days"

b) Should the City elect to host an "AMI Day" community event, Contractor and Sensus will attend and staff a booth displaying product at the event with local residents. **City Commission Meeting**

Contractor and Sensus will participate in City Commission meetings, as requested by the City.

c) Customer Communication Materials

Contractor will print advance notification customer communication materials, such as postcards and door hangers. The design and content of these mailers will be developed in conjunction with the City with the City having final approval authority over all materials. Contractor will manage the timing and mailing of these materials to provide at least 14-day notice to customers prior to installation. Contractor will provide recommendations

for any additional marketing material based on their experiences, including reasonable documentation to address RF safety concerns should they arise.

3) AMI Electricity Meters

The City shall purchase the meter quantities at the prices specified in

APPENDIX D – PRICING & PAYMENT SCHEDULE of this Contract, subject to price changes as provided herein. The Contractor will deliver FlexNet-enabled Sensus Stratus IQ+ and Aclara kV2c meters according to a mutually agreed schedule. Once agreed upon, Contractor will use commercially reasonable efforts to request that the manufacturer's scheduled delivery dates for meters are not adjusted within twelve (12) weeks of the scheduled delivery date.

Prior to manufacture of full order of FlexNet electric meters and/or modules, Contractor shall require Sensus and their meter sub-suppliers to manufacture and deliver four (4) samples, or other City-designated quantity not to exceed twelve (12), (the "First Articles") of each electric meter and/or module ordered to the City to ensure that the meter and/or module meets the City's Requirements Documentation. Contractor shall require Sensus to commence manufacture of the applicable meters and/or modules according to the agreed upon schedule after the City's acceptance of the First Articles. As used herein, "Requirements Documentation" means the meter order packet, nameplate definition and approval, manufacturing data file, specific metrology configuration, specific FlexNet configuration, meter numbering convention, and labeling information.

All electricity meters shall be UL Listed for compliance with the UL 2735 specification.

All electric meters including the communications module shall be tested at the factory and shipped with the test report. When an electric meter shipment leaves the factory, the Contractor will be responsible for ensuring that two manufacturing files are sent to the City– one for inventory processing purposes and a second for importing into the FlexNet head-end software. The file includes all relevant meter data and test results in the agreed format which will be determined jointly during system integration working sessions. In addition, manufacturing files will be sent to the Contractor's installation subcontractor for inventory management during the project. The Contractor will import factory files to the FlexNet Head End System during the project and train the City employees in this process.

All electric meters are non-cancelable, non-returnable once shipped.

a) Alternate Meter Supplier

The City is not expected to order FlexNet-enabled Aclara single-phase I-210+c meters for the initial deployment. However, upon reasonable notice the Contractor will ensure that Aclara is ready to accept orders for these meters for the City if needed and if available at the time of order placement. Price to be set at the time of order for any single phase Aclara meters added to order.

4) Water Meters & Water Communication Modules

The City shall purchase the meter quantities at the prices specified in

APPENDIX D – PRICING & PAYMENT SCHEDULE of this Contract, subject to price changes as provided herein. The Contractor will deliver Sensus iPERL+, OMNI+ C2, Cordonel, and select quantities of ally® water meters all equipped with FlexNet SmartPoint modules. Additionally, the Contractor will deliver FlexNet SmartPoint retrofit modules for the City's Kamstrup meters. All products will be delivered according to a mutually agreed schedule. Once agreed upon, Contractor will use commercially reasonable efforts to request that the manufacturer's scheduled delivery dates for meters are not adjusted within twelve (12) weeks of the scheduled delivery date. No first-article order is required for water meters or communication modules.

All meters shall be tested at the factory and shipped with the test report. When a meter shipment leaves the factory, the Contractor will be responsible for ensuring that a manufacturing file is sent to the City for inventory processing purposes. The file includes all relevant meter data and test results in the agreed format which will be determined jointly during system integration working sessions. In addition, manufacturing files will be sent to the Contractor's installation subcontractor for inventory management during the project.

SmartPoint modules will also provide a back-up mobile read capability and this capability shall be tested as part of the delivered solution.

5) Base Station & Network Infrastructure Devices (RF Field Equipment)

Prior to the installation of any meters, Contractor shall install and test the RF Field Equipment on the two the following sites:

Base Station Location Name	Latitude	Longitude
E Oak Street Water Tower	27.549820	-81.808968
Wildcat Way Water Tower	27.54643	-81.813119

- The City shall provide Contractor with access to these sites and with adequate space for the RF Field Equipment. If one of these sites cannot be used, Contractor will work with the City to determine alternatives necessary to maintain necessary system performance Contractor shall provide cellular backhaul for the RF Field Equipment unless the City elects to provide fiber to these locations.

Contractor has recommended two (2) Base Stations and agrees to supply any additional base stations above that number, if needed, to achieve agreed upon coverage from the approved RF design.

All RF Field Equipment shall comply with all applicable FCC Regulations. Any outdoor enclosures shall meet NEMA 4 and be lockable. Door open contacts shall be included that will cause an alarm at the head-end system.

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All network equipment shall meet applicable radiation exposure standards, within acceptable human exposure limits. Contractor will provide written instructions for City workers, stating acceptable limitations for working on or around network devices.

Contractor shall provide RF Field Equipment on a Network as a Service (NaaS) basis. The manufacturer will retain ownership of all RF Field Equipment and will be fully responsible for its ongoing maintenance and performance. Contractor will also be responsible for all firmware upgrades including upgrades to endpoint firmware. The City shall be given the opportunity to inspect and approve the functioning system prior to the installation of any meters on customer sites.

6) Communications Network

Contractor shall design the communications network with 100% RF coverage and 100% redundancy utilizing overlapping base station coverage resulting in reliable two-way communications to all Available Meters and proposed non-metering devices located within the City's service territory as indicated on the Sensus propagation study attached in Contractor's proposal as APPENDIX B. The Contractor has performed an RF propagation study to confirm adequate network coverage and will supply any needed communication equipment at no cost to achieve the contractual KPIs. Applicable terms and agreements are listed in ***APPENDIX E* – Software as a Service and Spectrum Lease Agreement .**

All FlexNet network communications from the base stations to the head-end application shall be encrypted using AES-256 encryption.

7) Handheld Field Tools

Contractor shall provide City with all necessary RF field devices and handheld tools required to install, activate, and maintain the supplied meters. The field devices and tools supplied by Contractor will be able to collect meter data from endpoints in the field should the network go down

8) Non-Metering Devices

Contractor shall provide City with all selected non-metering devices including Smart Gateways and associated intelligent sensors as specified in

9) Head-end applications

Contractor shall provide the Sensus FlexNet Head End software suite (cloud-based Software as a Service (SaaS)) accessed securely through a standard internet browser. The FlexNet head-end shall support customizable dashboards and alert conditions and shall integrate into City's existing systems using either flat file transfers (CSV), web service API commands, and/or real-time access through MultiSpeak. Contractor will facilitate discussions with the City and Sensus Professional Services to determine the best integration method as appropriate for the target interfaces.

Contractor shall provide the Sensus Analytics Enhanced Bundle of applications for meter data management and analytics support, including but not limited to:

a) Alert Manager (text and email notifications)
b) Network Command Suite (includes outage visualization)
c) Xylem Data Lake
d) Service Management
e) Pressure Profile (Optional for an extra fee)

Contractor shall work with City on the potential incorporation of non-metering intelligent devices in support of Smart Utility functions integrated within the Sensus FlexNet head-end and supported by the Sensus Smart Gateway communication device (examples applications include use of level sensors, pressure sensors, acoustic leak detectors, and water quality)

10) Software as a Service

Contractor, working in conjunction with the manufacturer, Sensus, shall provide the City with Software as a Service to host the head end system and any other current or future head-end applications and software integrations as further described in ***APPENDIX E* – Software as a Service and Spectrum Lease Agreement**, throughout the Continuing Services term of the Contract, and any renewal.

11) System Test Fixture

Contractor, working in conjunction with Sensus, shall provide the City with two system test fixtures (one water, one electric), which shall be suitable as a platform for system testing, in-depth training of the City personnel, and City community events if desired.

Each fixture shall be able to be read by the deployed network and head-end system and provide a platform to give demonstrations of system capabilities in various venues such as

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City Commission meetings or customer engagement “AMI day”. The fixtures are not meant to be used for meter accuracy testing but shall support system testing of:

- New firmware releases prior to field installation
- Billing and other integrations prior to field rollout
- Testing of new third-party devices offered by Contractor and its sub-suppliers

The fixtures shall support the following general requirements:

- Fixtures shall consist of a portable, wheel mounted, frame capable of self-contained operation
- Fixtures shall have the ability to test each type of non-metering field device to be deployed as part of the project or was offered as an option
- The water test fixture shall:
    - Contain a water reservoir, pump, valves, piping, etc. capable of generating forward and reverse water flow though the meters under test. Configuration must allow testing of all meter functionality (reverse flow, empty pipe, etc.) included in supplier’s proposal.
    - Have the ability to test multiple meters (3 minimum – 4+ preferred)
    - Support meter sizes of up to 1 inch. Larger sizes to be supported as can be reasonably designed and would provide added value.
- The electric test fixture shall:
    - Supply sufficient meter sockets to test each type of proposed electric meter
    - Be wired to support loss of phase testing for polyphase meters
    - Contain appropriate visual indicators to demonstrate applicable functions (i.e. meter connect/disconnect, demand response cutoff, etc.)

The fixtures shall contain:

- At least one of each type of field device to be deployed as part of the project.
- An LCM load control device wired to verify control of a small load.
- A Smart Gateway endpoint.

These devices shall be representative of the devices that will be installed in the field, and configured to the City’s requirements, including nameplates.

12) Integration Services

Contractor shall provide the following system integrations working in conjunction with Sensus Professional Services. Contractor shall require that Sensus provide a lead resource(s) to support all system integration activities required by the project including but not limited

to statement of work, design, development, FSAT testing, and acceptance. The City shall assist the integration efforts by ensuring integrating partners are contracted and enabled to perform their work as well as support any project escalations as required. Contractor and Sensus software integration fees are included in this Contract pricing. Any charges from third parties contracted directly by the City for integration services shall be paid by the City. It must be noted that all integrations must be completed and tested as a part of FSAT before and field deployment occurs. As noted previously, it is Contractor's responsibility to ensure ongoing support of any integration is provided via NaaS/SaaS support. Any integration that ceases to function or has degraded performance resulting from a Sensus head end system or other Contractor software upgrade or patch is the responsibility of the Contractor to resolve.

a) CIS & Billing

Contractor shall provide software integration services that will result in the automatic transfer of the vflex file transfer between the AMI system and the City's existing Tyler ERP Pro CIS & billing system, as approved by the City. Fully automatic transfer of billing data is not supported in this process. In all cases, the City's billing operations must continue to operate without disruption.

b) Customer Portal

Contractor will provide software integration services that will result in the automatic transfer of all pertinent data between AMI system and the City's existing Tyler ERP Pro Smart Meter Access Customer Portal system, as approved by the City.

c) Work Order Management System (WOMS)

Contractor shall integrate their field installation WOMS with the City's billing system to allow for the automatic transfer of all pertinent meter exchange information in support for the City's billing operations. Any applicable fees charged by the City's CIS vendor for alteration of its records shall be the responsibility of the City.

d) GIS LAT/LON integration

Contractor shall collect GIS LAT/LON data for each meter install and include this data as part of the CIS or WOMS integrations. The integration design shall also support any installations done by the City not utilizing Contractor's field installation WOMS. The integration shall also support upload of meter LAT/LON data into the City's existing ESRI ArcGIS system

13) Training

Contractor shall provide training to the City personnel that includes at least the following topics:

- Overview of the AMI product and head-end software
- System operations and troubleshooting which includes interaction between the endpoints and network devices, network devices and the AMI head end, and interaction between the AMI head-end and other system components such as Sensus Analytics, and customer portal.
- Identification, management, and resolution of events and alarms
- Usage of the Tyler ERP Pro billing system integration & billing cycles
- Meter Installation
- Meter Trouble Shooting
- Meter configuration
- Handheld usage
- Network components
- Installation and maintenance procedures
- Post-deployment maintenance of key field data such as meter LAT/LON by City

There will be no cap on the number of City personnel who can attend the training.

The City will provide the following equipment for training at City facilities:

- Projector or Similar Display Screen
- Wi-Fi / High Speed Internet
- Adequate seating for projected attendees
- Student computers for practical instruction, if applicable

Refresher training and training for new employees will be available online, on-demand for City employees on an ongoing basis as needed.

14) Meter Installation

a) General Provisions

Contractor's installation subcontractor (Bermex) shall provide meter installation services for both water and electric services. Use of any other meter installation subcontractor requires approval from the City.

The City will supply a list of medical do not disconnect customers to Contractor. Contractor will manage meter installation in accordance with the requirements of these customers.

The Installation subcontractor shall have all training and documentation needed to be able to execute safe, high-quality installations of all devices. All installation technicians shall go through extensive qualification training and testing before entering the field and will be subject to independent QA/QC checks conducted by the installation subcontractor and/or the City.

Contractor will supply all required field installation tools including handhelds. Contractor shall reseal all electric meters with seals and rings supplied by the City.

Contractor and the City will develop a strategy to avoid billing interference during the installation process and manage the transition from current routes to AMI.

The City will provide Contractor with all required premise data to successfully perform the meter exchange initially and for data refreshes throughout the installation period on a mutually agreed basis. Specific data fields to be defined and tested as part of system integration acceptance prior to mass field deployment.

All required meter programming specifications will be established jointly by Contractor and the City prior to commencing the work.

Contractor shall collect LAT/LON location data at the point of the physical meter (with accuracy of up to 10 ft of the meter location) with a resolution of 6 digits. City will work with Contractor to determine the preferred method for collection of these location coordinates as part of the project implementation. Collection of suitable LAT/LON coordinates for each meter is considered an integral part of the definition of a successful meter installation for invoicing purposes.

Contractor shall collect all agreed data and photos as part of the installation process. All such data shall be available for the City's inspection via the subcontractor's WOMS and shall be easily searchable within the WOMS system.

At the completion of the installation portion of the project, Contractor will maintain access to all installation related documentation (pictures, notes, etc.) and their WOMS system for a period of 3 months after the conclusion of the deployment. After that period,

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Contractor will provide all documentation (e.g. pictures) appropriately tagged to allow for easy retrieval as required by the City. Contractor will then purge all City specific data including photos from its system and handhelds at the end of the installation warranty period. Contractor shall not purge these data without prior notification of and approval by City

b) Background Checks and Drug Testing

Contractor shall perform a criminal background check, a driver's record check, a citizenship check and a drug test on all installation subcontractor employees, both before employment and randomly during deployment.

c) WOMS System

Installers shall be directed by Contractor using a mobile workforce order management system (WOMS) to manage the meter deployment. Contractor will facilitate a secure connection between the WOMS and the City's CIS system to ensure that these systems stay synchronized throughout the deployment process. The WOMS system shall also be used in supporting field processes such as meter inventory management, QA/QC, customer appointment, complaints, etc. The City shall be granted access to the WOMS throughout the field installation period to conduct necessary operations (records review, access reports, etc.).

Contractor shall use handhelds capable of scanning meter/module bar codes and the WOMS must include processes that ensure that the bar code of the installed meter/module is scanned post-installation such that the data export to the City's billing system is ensured to contain the correct meter to customer correlation. For water meters, this process must also ensure proper correlation of meter module serial number to water meter body serial number.

a) Receipt Inspection

The City will supply a secure fenced location with controlled access during working hours. The Contractor will supply storage containers and access locks for storage and disposal of inventory throughout the project.

Contractor shall receive and inspect inventory, noting any shortages or damages on a signed Bill of Lading. All received inventory will be loaded into WOMS by way of an inventory file or by way of bar-code scanners.

b) Material Issuance to Installers

Contractor will pick, stage, and distribute inventory to its staff daily based on the equipment needs associated with work. All distributed inventory will be assigned to the respective staff in WOMS.

d) Quality Assurance of Field Activities

Contractor will provide a Senior Field Operations Manager and a Working Field Supervisor who will physically QA both completed work and Standard Operating Procedures (SOPs) in the field. They will QA SOPs in real time in addition to auditing completed work so that their management team can provide coaching if necessary and identify/correct negative trends as soon as possible. Physical QA checks will be conducted randomly across installers for at least 2% of all installations. In addition, the installation subcontractor will photo QA 100% of all required installation photographs that it captures in the field as part of its in-house QC program in order to validate the meter attributes before data is transferred to City's CIS.

e) Call Center

Contractor will provide a call center during the deployment period, to provide customer service, appointment scheduling for meter installation as required, managing and recording customer complaints and customer claims. The call center shall be responsible for scheduling all appointments inclusive of proactive call attempts to schedule appointments as part of the due diligence process (item "g" below) as well as reactive calls in response to customer response calls seeking appointments. After hours Call Center hours shall be from 5pm to 7pm (EST). Customers can schedule appointments via an internet portal 24 hours a day or leave a voice message and calls will be returned from 8am to 7pm Monday-Friday.

The call center will track and notify the City promptly of any customer complaints and issue resolutions. The Contractor will respond to and address customer complaints in a timely manner working with the City as necessary. Contractor must initiate resolution of any loss of service customer complaint arising out of installation services by Contractor within 30 minutes, including immediate notification to the City, and Contractor shall work continuously until resolved. Should the Contractor fail to initiate resolution of any loss of service customer complaint within 30 minutes, the City reserves the right to immediately begin work to restore service, and for all costs and expenses associated with restoring service to be paid for by the Contractor, or by the Contractor reimbursing the City for all such costs and expenses. Contractor shall address all other customer complaints arising out of installation services by Contractor within one hour. The call center will schedule an appointment with the customer to investigate any complaint or claim within three days. Contractor shall process and close all claims within two weeks (customer willing). Contractor shall investigate all customer complaints arising out of installation services. Contractor will provide the City with a weekly written report of all open claims along with relevant customer call notes and will discuss open claims during a weekly project status meeting including all customer complaints and actions taken to resolve the complaints. If the investigation reveals that the complaint did not arise out of the installation services, the matter will be reported to the City for resolution.

All calls to and from the call center shall be recorded allowing the City to perform random audits of calls for compliance and quality control. Calls shall be easily identifiable by date/time and call center representative for ease of retrieval.

f) Return Material Authorization (RMA)

Contractor shall be responsible for RMA of product found to be defective during the relevant product's installation. The City shall be responsible for RMA of product that fails or has a suspected failure after successful installation and acceptance by the City. Contractor will provide adequate training to allow City staff to issue and manage RMA requests it generates.

Contractor will follow the RMA procedures outlined in ***APPENDIX G – RMA Process*** and note inventory that has been designated as RMA in WOMS.

g) Due Diligence Process

Contractor will follow a mutually agreeable and documented due diligence process to ensure that accounts that are not exchanged upon the initial site visit (e.g. Can't Complete) are systematically processed to maximize installation success rate. The process will include:

- A minimum of 2 physical site visits leaving door hangers with contact information for scheduling
- A minimum of 3 proactive calls by the call center for appointment scheduling inclusive of 1 after hour call (6PM – 8PM local time) in the event that the customer has never responded to the door hanger solicitation.
- Proposed sequence of visits and calls and duration between events to be mutually agreed to during the deployment readiness planning work sessions.

h) Return to Utility (RTU) Process

Contractor will follow a mutually agreeable and documented RTU process for remitting accounts to the City. The RTU account represents a final state whereby an account is returned to the City for action in response to a number of factors including safety concerns, completion of the due diligence process, or requested by the City for any reason. In all cases, the City will have the ability to approve acceptance of the account prior to assigning the RTU final state.

i) Utility Intervention Required (UIR) process

Contractor will notify the City in real time, and site anomalies will be photo documented in WOMS if the installer is unable to complete work due to any reason that requires utility intervention to resolve. UIR conditions will be discussed and representative values

employed in WOMS reports as part of the deployment readiness preparations. Examples of UIRs include but are not limited to:

- An unsafe or abnormal operating condition is identified
- A permanent obstruction is present
- A customer refuses service
- Evidence of theft or tampering is present
- The installer finds that the work order is found-complete upon arrival or the supplied meter identification data is incorrect preventing the accurate identification of the account

Once the issue has been referred to the City, the City shall use its best efforts to resolve the UIR item. If the City intervenes and resolves the issue within 10 business days of the issue being referred to the City, Contractor will complete the work as planned and at no additional cost. If the City does not resolve the issue within 10 business days, Contractor will return the work to the Utility (RTU) for completion by the City.

j) Safety and Protective Equipment Requirements

Contractor shall only use installers that have completed a mandatory documented safety program. This includes OSHA required training, which shall include, at a minimum, electrical and arc flash hazards as well as safe driver training.

Major safety issues and all accidents will be reported to the City immediately along with a follow-up root cause analysis and measures taken to address the issue and prevent reoccurrence. Minor safety issues or accidents and/or near misses will be reported weekly during project status meetings. The City shall have the right to stand-down the project at no cost in the event of repeated safety violations or the presence of major safety issues.

Reporting forms and processes will be mutually defined between the City and Contractor prior to starting any field installation work. The City reserves the right to issue a stand down at no cost due to excessive or significant safety violations.

Installers and any other Contractor field personnel will use the following personal protective equipment, signage, and ID:

- Electric Meter Installers: FR Shirt, FR High Viz Safety Vest, FR Trousers, Protective Work Boots, Hard Hat, Face Shield, Class 0 Insulated Gloves, and Leather Protectors.
- Water Meter Installers: Safety Orange Shirt or High Viz Safety Vest, Steel Toed Work Boots, Gloves.

- Vehicle Signage: Installation personnel shall drive vehicles that are clearly identifiable with specific signage that is reviewed and approved by the City.

- ID: Installers shall carry and display ID badges approved by the City and must be uniformly dressed.

k) Personnel Behavior and Right to Remove Personnel

Every project team member and installation personnel is expected to treat City staff and end customers with the upmost respect and care. The City shall have the right to deny access to City property to any team member or installer and request their removal from the project for anyone that does not meet this standard of care or for any other reason deemed detrimental to the project or the City's staff/customers.

l) Scrap Materials

Contractor shall process all scrap meters (i.e. storage, disposal, recycling etc.) and City-owned scrap materials on a mutually agreeable periodic basis. All disposal permitting and handling (including batteries) shall be the responsibility of Contractor. Contractor shall provide acceptable scrap value of materials (adjusted for applicable administrative fees in the amount of 15% to all credited invoices) with the preferred method for such a credit being offsets towards outstanding invoices.
Pricing for salvage meters is listed in APPENDIX D – PRICING & PAYMENT SCHEDULE.

m) Electric Meter Installation

Contractor shall ensure that electric AMI meters are initially readable from the head-end system post-installation before invoicing, and shall provide the City Supporting Documentation validating the installation was deemed successful as set forth in Article 8.

Contractor shall obtain before and after photos for all meters. Photos shall include clear views of meter register reading and serial number. All photos will be time stamped and geotagged.

The City will provide a list of bi-directional metered customers to the Contractor project manager. If bi-directional metering customers require a special meter configuration, the Contractor project manager shall ensure that Contractor provides meters that are enabled for bi-directional metering to these customers.

Contractor will not be responsible for claims of damage or inconvenience by utility customers caused by the necessity to disconnect power temporarily to install the new electric meter, or caused by the power being turned back on after installation, provided that Contractor has followed the agreed installation procedures including customer notification.

n) Water Meter Installation

Contractor shall ensure that water AMI meters are initially readable from the head-end system post-installation before invoicing, including providing City Supporting Documentation validating the installation was deemed successful as set forth in Article 8.

Contractor shall obtain before and after photos for all meters. Photos shall include clear views of meter register reading and serial number. All photos will be time stamped and geotagged.

Contractor must include opening any isolation valve that was closed for installation (like curb stops and verify flow and meter registration (if possible by opening hose bib or other user controllable flow mechanism)

Contractor will be responsible for performing all agreed field work and water pit remediation activities including meter box replacements, grading of select boxes, pit vacuuming as needed, meter yoke replacement, and plumbing repairs (valves, line breaks). The City shall work with Contractor at the start of the project to review and agree on relevant field procedures for these activities.

Contractor is responsible for any damages it causes within 24" on either side of the water meter resulting from the Project installation. Any damages caused by Contractor within this 24" area will be promptly repaired by Contractor at its expense. Contractor is not liable for payment for repairs made by the City when Contractor was not notified of the issue or given an opportunity to inspect the site or perform the work with its own forces, provided that the City shall not be required to provide Contractor prior notice and an opportunity to inspect the site or perform the work with Contractor's own forces if repairs are required to be made during weekends, holidays, or overnight. Contractor is not liable for damages outside the 24" zone, either on the water distribution side or on the customer side incurred from the Project installation including shutoff, temporary outage, and restart of water service. Contractor is not liable for any pre-existing conditions including leaks, faulty workmanship and materials from previous projects or rust. Should such conditions occur (i.e., leaks) Contractor may document them and at the City's written request, repair them for a negotiated price.

Contractor will not be responsible for claims of damage or inconvenience by utility customers caused by the necessity to disconnect water temporarily to install the new water meter, or caused by the water being turned back on after installation.

Contracted meter change outs contemplate a standard like-for-like meter lay-length change out. In the event that locations exist which require nonstandard work (i.e., move a service location, move fences or other customer structures and items for access, install systems in heavy traffic locations, alleys, parking lots, re-piping, changing lay-length, adding flange adaptors, etc.), Contractor and the City will either agree on a price the City will pay Contractor to perform the work, or the City will exclude this work from the

Project. Should Contractor, in its sole discretion, determine that any portion of the Work is unsafe, that portion of the Work will be considered nonstandard and will be excluded from the Project.

Contractor shall have a process for accepting and tracking these work orders which will be performed at the rates set forth in

APPENDIX D – PRICING & PAYMENT SCHEDULE**.**

o) Non-Metering Network Device Installation

Contractor shall have a process to ensure any non-metering network device is communicating with the head-end system post-installation before invoicing. Appropriate installation photos and any supporting documentation shall be collected as mutually agreed prior to deployment

The City must approve the network design and planned equipment locations, mounting details and power requirements prior to installation. All work shall be performed by Contractor. The City will provide on-site power and will provide Contractor with access to the sites as needed to perform the work.

Contractor will program and configure the Base Stations as a part of their installation process.

15) Supporting Documentation

Contractor will provide a Visio system diagram of the plan, from head-end system down to field devices. An "as-built" update of this Visio diagram will be provided prior to project closure. A full complement of operator's manuals, installation instructions, and related materials will be furnished as part of the training.

ARTICLE 4 - SYSTEM ACCEPTANCE & PERFORMANCE

System Verification & Acceptance

a) Functional System Acceptance Testing (FSAT)

The Contractor will submit an FSAT test plan to allow the City to verify the functionality defined in the project specification inclusive of integrations to the City systems as specified. The City shall have the right to review this plan and require changes before approving it for use.

If any special test equipment is needed to exercise a system function, Contractor shall loan such devices to the City for the test duration.

Contractor will deliver sufficient meters (of each meter form which the City will order), a load control module and a smart gateway endpoint to support FSAT testing on the system test fixtures. Contractor shall expedite ordering ~100 or more of each of electric and water meters after FSAT acceptance should meter lead times exceed six months.

This test will cover, at a minimum, the following items:

- Communication Network
- Residential and commercial water and electricity meters
- Non-metering devices
- Daily read schedule, including interval data and demand reads
- On-request reads and connect/disconnect operations
- Appropriate alarms/event indications for both electric and water meters (e.g. tilt/tamper, reverse flow, leak etc.)
- Process of updating the CIS with work order files from installer WOMS
- All integrations including:
    - Billing
    - Customer Portal
    - WOMS
    - GIS LAT/LON

The System Test Fixture will be used to facilitate this test supplemented with a very small number of select "friendly" field installs if desired by the City. FSAT completion and acceptance must occur and be signed off by the City prior to the start of field deployment. Any exceptions or conditional passes must be approved by the City.

It is important to note that FSAT and SAT are separate tests with FSAT occurring prior to any field deployment and SAT occurring at 95% deployment completion.

b) System Acceptance Test (SAT)

Contractor will submit a final SAT plan to allow the City to verify the functionality defined in the project specification inclusive of integrations to the City systems as specified with the majority of field meters deployed.

SAT testing will be conducted when 95% or more of meters and field devices are deployed and shall confirm operational readiness of the system and resolution of any outstanding issues from the initial testing. The City shall have the right to review this plan and require changes before approving it for use.

It is important to note that FSAT and SAT are separate tests with FSAT occurring prior to any field deployment and SAT occurring at 95% deployment completion.

Ongoing System Performance

The FlexNet head-end system will provide a number of monitoring and real time performance screens that can be tracked by the City to verify the system's performance.

a) System Availability

Throughout the Continuing Services term of the Contract, and any renewal, Contractor shall require Sensus to ensure 99% or higher availability (uptime) for the Software as a Service, as described in ***APPENDIX E* – Software as a Service and Spectrum Lease Agreement.**

In the event that RF interference affecting system performance occurs, Contractor will require Sensus to determine the source of the interference and resolve it pursuant to the spectrum manager lease.

b) Read Performance

Throughout the Continuing Services term of the Contract, and any renewal, Contractor shall require Sensus to ensure the FlexNet network will provide 100% coverage for all of the City's available meters within the territory covered by the propagation study, with 100% redundancy coverage for all available meters ensuring a 98% or greater daily read success for electric and water including load profile data by 6 AM each day. Missing reads from available meters shall automatically be collected by a retry strategy that ensures that 100% of register and load profile data for any given day are read within 3 days. If the City's service territory expands, coverage re-evaluation and mutually agreed upon re-design and service costs will apply.

c) On-Demand Read Operations

On-demand reads from the head-end system for any metered or status quantity from any electric meter shall succeed in 10 seconds or less for 98% of read attempts.

For water meters, these on-demand reads shall succeed in 90 seconds or less for 98% of read attempts for an individual meter. Small batches of on-demand reads (<240 meters) shall succeed in 1 minute or less. Large batches of on-demand reads (>240 meters) shall be available in 4 hours.

In all cases, these reads will provide a fresh reading from the meter, not old, stored data in a communication device or database, and only apply to Available Meters.

d) Connect/Disconnect Operations

Electric meter disconnect/reconnect requests shall occur after initiation with confirmation received within 1 minute with the majority confirming in 30 seconds for 98%

of requests. Water disconnect/reconnect requests shall occur after initiation with confirmation received no later than 2 minutes with the majority of confirmations occurring within 1 minute for 98% of requests.

Each disconnect action shall also return the current register reads.

e) Outage Reporting

Electric meter outages shall be reported to the head-end system and viewable on the NetMetrics UI which allows users to visualize outages in near real-time after permanent outage determination for 99% of occurrences for individual meter outages and outages affecting 200 meters or less. Text messages and emails sent as part of the Alarm Message & Manager RNI Add-on application can be initiated within 1 minute of the head-end system receiving the related notification. This notification should contain all outages present at the time the message is sent. Sending a text and/or email per outage is not acceptable. All power outage and restoration events are timestamped and logged in the head end system, which supports real-time outage and restoration message integration with the addition of an OMS Outage Management system.

This functionality will be fully tested during FSAT and response and notification times will be documented in the test report and acceptance of that performance will require mutual concurrence.

f) Firmware Updates

The Contractor will be responsible for all firmware updates throughout the life of the system as part of the contracted NaaS/SaaS services. All firmware upgrades will be conducted as needed to maintain the AMI system while allowing for normal operation to occur concurrently during updates.

ARTICLE 5 - BONDS, INSURANCE/LICENSED INSURERS

a) Within five (5) business days of receipt of Contract Documents, the Contractor shall furnish a Payment Bond and a Performance Bond in an amount equal to one-hundred percent (100%) of the amount of the Contract Price, made out to the City in forms and formats approved by the Owner, as security for the faithful performance of the Work of Contract, in accordance with Section 255.05, Florida Statutes. In no case shall the date on the bonds form be prior to that of the executed Contract. The surety must be authorized and licensed to transact business in Florida. The Payment and Performance Bonds will be in place for the duration of the Delivery and Installation Project only.

b) A fully executed Payment Bond and Performance Bond must be recorded with the Clerk of Hardee County Court and delivered to the City before Work may commence. If the Contractor fails or refuses to furnish or record the required bonds, the City will retain the Contractor's Bid Security as liquidated damages.

c) Before starting and until Final Acceptance of the Delivery and Installation Project, and without in any way limiting or altering its liability under the Contract, the Contractor shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Schedule	**Amount**
Workers' Compensation	
Florida Statutory Coverage and Employer's Liability (including appropriate Federal Acts)	Statutory Limits (Workers' Compensation) As required by law (Employer's Liability)
Contractor's General Liability	
Completed Operations and Products Liability	$1,000,000/occurrence,
Property damage and bodily injury	$2,000,000 annual aggregate
Personal Injury Liability(Included in General Liability)	
Property Damage Liability insurance will provide Explosion, Collapse and Underground Hazards (XCU Coverage) as appropriate	
Automobile Liability	
Bodily Injury	$200,000/person, $400,000/accident
Property Damage	$400,000/accident
Contractual Liability (Included in General Liability)	
Bodily Injury	$500,000/accident
Property Damage	$1,000,000 annual aggregate

Builder's Risk Insurance

Not Required

d) The Contractor's General Liability policies shall be effective until Final Acceptance of the Work. Limits may be met through a combination of primary coverage and Umbrella or Excess Liability. The above Indemnification provision is separate and is not limited by the type of insurance or insurance amounts stated above.

e) The Contractor shall specify the City and all of its Officers, Agents, and Employees, and the Engineer as additional insureds for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by the City. The Contractor shall provide the City with a Certificate of Insurance. The Certificate of Insurance must name as an additional insured the City and all of its Officers, Agents, and Employees, excluding worker's compensation and Employer's Liability; must provide that such insurance is primary to any other insurance available to the additional insureds with respect to claims covered under the policy; and must provide that such insurance coverage applies separately to each insured against whom claims are made or suit is brought; but the inclusion of more than one insured shall not operate to increase the insurer's limit of liability.

f) Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to the City. All insurance coverage shall be written with an insurer having an A.M. Best Rating of at least the "A-" category and size category of VII. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to the City for approval. All policies required under this section must be an "Occurrence" form. The policies shall contain a waiver of subrogation in favor of the City.

g) The Contractor's and its Subcontractors' Certificates of Insurance shall be mailed to the City at City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873.

h) The insurance certificates shall provide that no cancellation, including expiration and non-renewal, shall be effective until thirty (30) days after receipt of written notice by the City.

i) If there is any failure by the Contractor to comply with the provisions of this section, the City may, at its option, on notice to the Contractor, suspend the work for cause until there is full compliance.

j) If Contractor fails to provide City with a certificate of insurance or if Contractor allows a policy to lapse during the term of the Contract, the City may, at its sole discretion, purchase such insurance at the Contractor's expense provided that the City shall have no obligation to do so and if the City shall do so, it shall not relieve the Contractor of its obligation to obtain insurance. Notwithstanding anything contained in the Contract to the contrary, the City herebyaccepts Contractor's certificate of insurance and endorsements in full compliance with all insurance requirements, including but not limited to notice requirements, coverage, language, policy limits, policy forms and deductible amounts. The parties agree that Contractor's insurance is provided on a contributory basis, and is primary, but only to the extent of the products, services, and operations of Contractor.

k) The Contractor shall not be relieved of or excused from the obligation to obtain and maintain such insurance amount and coverages

l) Any subcontractors of the Contractor shall procure and maintain the insurance required of the Contractor hereunder during the life of the subcontract. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by the Contractor.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

1) Supervision and Superintendence

a) Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents.

2) Services, Materials, and Equipment

a) Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work, except the City will be responsible for providing electric power to the sites where any infrastructure is installed.

b) All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents.

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c) All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable supplier, except as otherwise may be provided in the Contract Documents.

3) Progress Schedule

a) The parties shall adhere to the progress schedule established in accordance with ARTICLE 2 - STATEMENT OF WORK & SCHEDULE as it may be adjusted from time to time as provided below.

4) Concerning Subcontractors, Suppliers, and Others

b) Contractor shall not employ any subcontractor, supplier, or other individual or entity (except those acceptable to the City as indicated in this Contract), whether initially or as a replacement, against whom the City may have reasonable objection.

c) Contractor shall be fully responsible to the City for all acts and omissions of the subcontractors, suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the Contract Documents:

a) shall create for the benefit of any such subcontractor, supplier, or other individual or entity any contractual relationship between the City or its Owner's Engineer and any such subcontractor, supplier or other individual or entity; nor

b) shall create any obligation on the part of the City or its Owner's Engineer to pay or to see to the payment of any moneys due any such subcontractor, supplier, or other individual or entity except as may otherwise be required by laws and regulations.

d) Contractor shall be solely responsible for scheduling and coordinating the Work of subcontractors, suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with Contractor.

5) Infringement Indemnity

a) Contractor shall indemnify and hold harmless the City from and against any judgment by a court of competent jurisdiction or settlement reached from any litigation instituted against the City in the United States by a third party which alleges that the FlexNet System provided hereunder infringes upon the patents or copyrights of such third party, provided that Contractor shall have the right to select counsel in such proceedings and control such proceedings. Notwithstanding the foregoing, Contractor shall have no liability under this indemnity unless the City cooperates with and assists Contractor in any such proceedings and gives Contractor written notice of any claim hereunder within fourteen (14) days of receiving it. Further, Contractor shall have no liability hereunder if such claim is related to; (i) any change, modification or alteration made to the FlexNet System by the City or a third party, (ii) use of the FlexNet System in combination with

any goods or services not provided by Contractor hereunder, (iii) the City failure to use the most recent version of the Software or to otherwise take any corrective action as reasonably directed by Contractor , (iv) compliance by Contractor with any designs, specifications or instructions provided by the City or compliance by Contractor with an industry standard, or (v) any use of the FlexNet System other than for the Permitted Use. In the event the FlexNet System is adjudicated to infringe a patent or copyright of a third party and its use is enjoined, or, if in the reasonable opinion of Contractor, the FlexNet System is likely to become the subject of an infringement claim, Contractor, at its sole discretion and expense, may; (i) procure for the City the right to continue using the FlexNet System or (ii) modify or replace the FlexNet System so that it becomes non-infringing.

b) This Infringement Indemnity provision shall survive the completion, expiration, or termination of this Contract.

6) Permits

a) Contractor shall obtain and pay for all construction permits and licenses. The City shall assist Contractor, when necessary, in providing the information needed to obtain such permits and licenses.

7) Laws and Regulations

a) Contractor shall give all notices required by and shall comply with all laws and regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable laws and regulations, neither the City nor Owner's Engineer shall be responsible for monitoring Contractor's compliance with any laws or regulations.

8) Taxes

a) The City shall pay all sales, consumer, use, and other similar taxes required to be paid by the City in accordance with applicable laws and regulations. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with applicable laws and regulations.

9) Record Documents

Contractor shall maintain in a safe place one record copy of all drawings, specifications, addenda, Change Orders, field orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents will be available to the City for reference. Upon completion of the Work, these record documents will be delivered to the City.

10) Safety and Protection

a) Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety laws and regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

   a) all persons who may be affected by the Work;

   b) all the Work and materials and equipment to be incorporated therein; and

   c) other property, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.

b) Contractor shall comply with all applicable laws and regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of underground facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

c) Contractor shall comply with the applicable requirements of the City's safety programs, if any. The City will disclose any applicable safety programs in advance of work to Contractor.

d) Contractor shall inform the City and Owner's Engineer of the specific requirements of Contractor's safety program with which the City's and Owner's Engineer's employees and representatives must comply while at the Site.

e) Subject to Section 17, all damage, injury, or loss to any property referred to in this Contract caused, directly or indirectly, in whole or in part, by Contractor, any subcontractor, supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor (except to the extent damage or loss is attributable to the fault of drawings or specifications, or caused by the acts or omissions of any End User, the City, or anyone employed by any of them, or anyone for whose acts any of them may be liable, or other third parties not under the direction or control of Contractor).

11) Safety Representative

a) Contractor shall designate a qualified and experienced safety representative whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

12) Hazard Communication Programs

a) Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers in accordance with laws or regulations.

13) Emergencies

a) In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give the City and Owner's Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If the City or Owner's Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

14) Continuing the Work

a) Contractor shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with the City. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by this Contract or as the City and Contractor may otherwise agree in writing.

15) Contractor's General Warranty Regarding Performance of the Work

a) Contractor warrants that it will perform all Work in a good and workmanlike manner. The extent of the warranty to be provided by Contractor hereunder is set forth in the City of Wauchula Warranty attached hereto in EXHIBIT F.

16) Indemnification

a) Contractor shall, to the fullest extent permitted by law, indemnify, defend, and hold harmless the City and all of its officers, commission members, and employees from third-party claims, suits, liability, loss, expense, or damages, including reasonable attorneys' fees and costs, to the extent caused by the negligent acts or omissions by, the willful misconduct of, or the failure to comply with applicable laws by Contractor or those for whom the Contractor is responsible in the performance of this Contract. The indemnification required under this Contract will not be limited in any way by the limits, terms, or conditions of any insurance policy.

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b) Contractor, for itself and on behalf of its agents, employees, subcontractors, and subconsultants, shall to the fullest extent permitted by law indemnify, and hold the City and all of its officers, commission members, and employees harmless from and against any and all losses, expenses, claims, demands, and causes of action, including reasonable attorneys' fees and costs, asserted against the City by any person (including without limitation, Contractor's employees, Contractor's subcontractors and subconsultants, and employees of such subcontractors and subconsultants), for injury to persons, including death, or for loss of or damage to property, to the extent caused by the negligent acts or omissions of Contractor or any entity for which it is responsible in performing the Work, or the violation by Contractor or any entity for which it is responsible of any law, regulation, ordinance, code or standard applicable to the Work. The indemnification required under this Contract shall not be limited in any way by the limits, terms, or conditions of any insurance policy.

c) This Indemnification provision shall survive the completion, expiration, or termination of this Contract.

17) Jessica Lunsford Act (Section 1012.32, Florida Statutes)

a) Background screening requirements for certain non-instructional school district employees and contractors.— (1) Except as provided in s. 1012.467 or s. 1012.468, non-instructional school district employees or contractual personnel who are permitted access on school grounds when students are present, who have direct contact with students or who have access to or control of school funds must meet level 2 screening requirements as described in s. 1012.32. Contractual personnel shall include any contractor, individual, or entity under contract with a school or the school board. (2) Every 5 years following employment or entry into a contract in a capacity described in subsection (1), each person who is so employed or under contract with the school district must meet level 2 screening requirements as described in s. 1012.32, at which time the school district shall request the Department of Law Enforcement to forward the fingerprints to the Federal Bureau of Investigation for the level 2 screening. If, for any reason following employment or entry into a contract in a capacity described in subsection (1), the fingerprints of a person who is so employed or under contract with the school district are not retained by the Department of Law Enforcement under s. 1012.32(3)(a) and (b), the person must file a complete set of fingerprints with the district school superintendent of the employing or contracting school district. Upon submission of fingerprints for this purpose, the school district shall request the Department of Law Enforcement to forward the fingerprints to the Federal Bureau of Investigation for the level 2 screening, and the fingerprints shall be retained by the Department of Law Enforcement under s. 1012.32(3)(a) and (b). The cost of the state and federal criminal history check required by level 2 screening may be borne by the district school board, the contractor, or the person fingerprinted. Under penalty of perjury, each person who

is employed or under contract in a capacity described in subsection (1) must agree to inform his or her employer or the party with whom he or she is under contract within 48 hours if convicted of any disqualifying offense while he or she is employed or under contract in that capacity.(3) If it is found that a person who is employed or under contract in a capacity described in subsection (1) does not meet the level 2 requirements, the person shall be immediately suspended from working in that capacity and shall remain suspended until final resolution of any appeals.

18) E-Verify Requirements

Effective January 1, 2021, public and private employers, contractors, and subcontractors must require registration with, and use of the E-Verify system in order to verify the work authorization status of all newly hired employees. Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

(1) All persons employed by Contractor to perform employment duties within the State of Florida during the term of the Contract; and

(2) All persons (including subcontractors/subvendors/subconsultants) assigned by Contractor to perform work pursuant to this Contract with the City. Contractor acknowledges and agrees that the use of the U.S. Department of Homeland Security's E-Verify System during the term of this Contract is a condition of the Contract with the City.

By entering this Contract with the City, Contractor becomes obligated to comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility." This includes, but is not limited to, use of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit to Contractor attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Contractor agrees to maintain a copy of such affidavit for the duration of this Contract. Failure to comply with this section will result in the termination of this Contract as provided in Section 448.095, Florida Statutes, and Contractor may not be awarded a public contract for at least one (1) year after the date on which the Contract was terminated. Contractor will also be liable for any additional costs to the City incurred as a result of the termination of this Contract in accordance with this section.

ARTICLE 7 - THE CITY'S REPRESENTATIVE (OWNER'S ENGINEER) DURING CONSTRUCTION

1) The City's Representative

a) The City will engage an Owner's Engineer, who is Quanta Technology, to act on their behalf on technical matters during the construction period. The City's Owner's Engineer shall also serve as the City's project manager.

2) Visits to Properties

a) The City's Owner's Engineer will make visits to the properties at intervals appropriate to the various stages of construction as the Owner's Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been

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made and the quality of the various aspects of the Contractor's executed Work. Based on information obtained during such visits and observations, the Owner's Engineer, for the benefit of the City, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. The Owner's Engineer will not be required to make exhaustive or continuous inspections to check the quality or quantity of the Work. Owner's Engineer's efforts will be directed toward providing for the City a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, the Owner's Engineer will keep the City informed of the progress of the Work and will endeavor to guard the City against defective Work.

3) Rejecting Defective Work

a) The Owner's Engineer will have authority to reject Work which they believe to be defective, or that they believe will not produce a completed project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. The Owner's Engineer will also have authority to require special inspection or testing of the Works, and remediation, whether or not the Work is fabricated, installed, or completed.

ARTICLE 8 - PAYMENTS TO CONTRACTOR

Delivery and Installation Project payments are governed by this article. Continuing Services payments are governed by passing the FSAT as set forth elsewhere in this Contract. Notwithstanding anything to the contrary herein, invoicing and payment terms are set forth in APPENDIX D – PRICING & PAYMENT SCHEDULE.

a) Supporting Documentation for Invoice Validation: Contractor shall submit the following documentation to support each invoice:

i. Contractor shall submit supporting documentation validating the installation was deemed successful, including a report from the head-end system listing each meter (ID) that is being invoiced, communication module (ID), site address, last reading date, electric meter form, electric meter class, water meter size, LAT/LON coordinates. Successful installations are deemed those that have successfully read within the last 5 days (for the purposes of invoicing), and have valid LAT/LON coordinates in accordance to system requirements.

ii. Contractor will provide City lien waivers from Contractor and its subcontractors within 30 days after each payment from the City. For clarity, manufacturers are not subcontractors.

b) Final Payment Affidavit

Prior to final payment for the Delivery and Installation Project, Contractor will provide an affidavit stating (a) the work was completed in accordance with the Contract; (b) that all previous progress payments received on account of the work performed have been applied on account to discharge Contractor's legitimate obligations associated with prior invoices; and (c) that Contractor has provided City all product warranties, operating manuals, instruction manuals and other record documents customarily required for AMI systems.

c) Payment Becomes Due:

a) Thirty days after presentation of the invoice to the City, the amount will (subject to the provisions of this article) become due, and when due will be paid by the City to the Contractor.

d) Reduction in Payment:

a) The City may refuse to make payment of the full amount because:

1. claims have been made against the City on account of the Contractor's performance or furnishing of the Work;

2. liens have been filed in connection with the Work, except where the Contractor has delivered a specific bond satisfactory to the City to secure the satisfaction and discharge of such liens;

3. there are other items entitling the City to a set off against the amount recommended; or

4. the City has issued a notice of breach to the Contractor and the Contractor has not substantially commenced efforts to cure the breach within 10 days of the notice and thereafter diligently pursued correction.

b) If the City refuses to make payment of the full amount, the City will give the Contractor immediate written notice (with a copy to the Owner's Engineer) stating the reasons for such action and promptly pay the Contractor any amount remaining after deduction of the amount so withheld. The City shall promptly pay the Contractor the amount so withheld, or any adjustment thereto agreed to by the City and the Contractor, when the Contractor remedies the reasons for such action.

ARTICLE 9 - CHANGES IN THE WORK; CLAIMS

1) Unauthorized Changes in the Work

a) Contractor shall not be entitled to an increase in the contract price or an extension of the contract times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented, except in the case of force majeure, an emergency, or in the case of uncovering a change in assumptions related to the Work.

b) In the event, however, a change to the Work becomes necessary resulting from conditions that are clearly unforeseen and that could not have been discovered, or that are the result of force majeure or an emergency, the costs for adjusting the Work in response to such unforeseen conditions shall be addressed as stated herein.

2) Authorized Changes in the Work and Change Orders

a) The Engineer may issue to the Contractor a written Field Order to authorize minor changes to the Work having no impact on Contract Price or Contract Time. If the Contractor anticipates that the Field Order work will impact the Contract Price or Contract Time the Contractor should immediately notify the Engineer.

b) In the event of an emergency endangering life or property where it is appropriate for the Contractor to take action, the Contractor shall undertake such actions to preserve life and property. The City and the Contractor will determine after emergency is concluded, the extent of out-of-scope work performed by the Contractor, and the City will issue a Change Order or amend the Contract for such work, if any and as necessary.

c) Without invalidating the Contract and without notice to any surety, City may order additions, deletions, or revisions in the Work by a Change Order. Upon both parties signing any such Change Order, Contractor shall promptly proceed with the Work, which will be performed under the applicable conditions of the Contract.

d) The City will determine the value of work covered by a change order using one of the following methods:

1. Where the work is covered by established unit prices contained in the Contract, the unit price, if the City agrees that this is a fair and reasonable price; otherwise, a negotiated price will be applied to the quantity of work at the discretion of the City;

2. By mutual acceptance of lump sum price;

3. By actual cost and a mutually acceptable fixed amount for overhead and profit; or

4. Where Bid Price was based on estimated quantities, prior to making final payment, the City will determine actual quantities using sampling, surveying and other industry recognized means and prepare a Change Order adjusting the price to reflect actual volumes.

5. If Contractor is unable to agree on the amount or extent, if any, of an adjustment to the Contract price or Contract times, or both, resulting from the Change Order, Contractor may file a Notice of Claim as provided in the Contract.

e) All Work defined on Field Orders, Work Change Directives and Change Orders shall be subject to the conditions of the Contract, unless specifically noted on the Field Order Form, Work Change Directive Form, or Change Order.

ARTICLE 10 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

1) Change of Contract Price

a) Contract prices may only be changed by a Change Order. Any claim for an adjustment in a contract price shall be based on written notice submitted by the party making the claim.

b) The value of any Work covered by a Change Order or of any claim for an adjustment in contract price will be determined as set forth in Article 9, Section 2(d) above.

2) Change of Contract Times

a) The contract times may only be changed by a Change Order. Any claim for an adjustment in the contract times shall be based on written notice submitted by the party making the claim.

3) Delays

b) If the City or other contractors performing other work for the City , or anyone for whom the City is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the contract price or the contract times, or both.

c) If Contractor is delayed in the performance or progress of the Work by Force Majeure, then Contractor shall be entitled to an equitable adjustment in contract times, contract price, or both. Such adjustments shall be Contractor's sole and exclusive remedy for the delays described in this subsection.

d) Contractor shall not be entitled to an adjustment in contract price or contract times for delays within its control. Delays attributable to and within the control of a subcontractor or supplier shall be deemed to be delays within the control of Contractor.

ARTICLE 11 - SUSPENSION OF WORK AND TERMINATION

1) The City May Suspend Work

a) At any time and without cause, the City may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by providing Contractor notice in writing, which written notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the contract price or an extension of the contract times, or both, directly attributable to any such suspension. Contractor will submit a claim for any increase in price resulting from the suspension, but Contractor will automatically be granted an extension of time equivalent to the suspension without the need to submit a claim. No adjustment in the contract price shall be granted where the suspension of Work is caused by Contractor's negligence, or the negligence of any of its subcontractors, or where the suspension is caused by Contractor's failure to perform, or the failure to perform by any of Contractor's subcontractors.

2) The City May Terminate for Cause

a) The City may provide Contractor written notice to discontinue all Work upon the occurrence of any of the following events, which constitute an Event of Default justifying termination for cause:

1. Contractor assigns the Work without prior written permission;

2. Any petition is filed or any proceeding is commenced by or against Contractor for relief under any bankruptcy or insolvency laws;

3. A receiver is appointed for the Contractor's properties or Contractor commits any act of insolvency (however evidenced);

4. Contractor makes an assignment for the benefit of creditors;

5. Contractor suspends the operation of a substantial portion of its business that directly impacts its performance under this Contract;

6. Contractor suspends the whole or any part of the Work to the extent that it impacts its ability to meet the Work schedule, or Contractor abandons the whole or any part of the Work, except when such suspension or abandonment is premised upon the City's failure to pay Contractor for Contractor's undisputed Work after Contractor has met all requirements for payment under Article 8.

7. Contractor at any time, violates any of the material conditions or provisions of the Contract Documents, or substantially fails to perform as specified in the Contract Documents, or is not substantially complying with the Contract Documents and Contractor fails to substantially commence efforts to cure within 10 days of notice from the City and thereafter fails to diligently pursue correction;

8. Contractor attempts to willfully impose upon the City items or workmanship that are defective or of unacceptable quality;

9. Contractor breaches any of the representations or warranties (excluding product warranties) contained herein;

10. Contractor is determined, in the City's sole opinion, to have misrepresented the utilization of funds or misappropriated property belonging to the City.

b) If, within twenty (20) days after service of such notice of an Event of Default upon Contractor, an arrangement satisfactory to the City has not been made by Contractor for continuance of the Work, the City may declare Contractor in default by written notice to the Contractor and the surety.

c) Once Contractor is declared in default, the surety shall assume Contractor’s place in all respects. If the surety has not exercised its option, then without further notice to Contractor or the surety, the City may terminate the Contract and shall have the power to complete the Work herein described as it may determine. In such a case, the City shall have the right to take possession of and use any of the materials, tools, equipment, supplies and property of any kind provided by Contractor for the purpose of this Work. However, the City may not take possession of the RF Field Equipment provided by Contractor.

d) The City will charge the expense of completing the Work to Contractor and will deduct such expenses from monies due, or which at any time thereafter may become due, to Contractor. If such expenses are more than the sum that would otherwise have been payable under the Contract, then Contractor shall pay the amount of such excess to the City upon notice of the expenses from the City. The City will make reasonable efforts to mitigate the excess costs of completing the Work.

e) This provision shall in no way limit the City's right to all remedies for nonperformance provided under law or in equity, except as specifically set forth herein. In the event of termination for nonperformance, Contractor shall immediately surrender all Work records to the City. In such a case, the City may offset any money owed to Contractor against any liabilities resulting from Contractor’s nonperformance.

f) The City shall have no liability to Contractor for termination costs arising out of the Contract, or any of Contractor's subcontracts, as a result of termination for default.

3) Contractor May Stop Work or Terminate

a) If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by the City or under an order of court or other public authority, or (ii) the City fails to act on any Application for Payment within 60 days after it is submitted, or (iii) the City fails for 60 days to pay Contractor any sum finally determined to be due, then Contractor may, upon 10 days written notice to the City and the City's Engineer, and provided the City does not remedy such suspension or failure within that time, terminate the Contract and recover from the City the payment at issue.

b) In lieu of terminating the Contract and without prejudice to any other right or remedy, if the City has failed to act on an Application for Payment within 60 days after it is submitted, or the City has failed for 60 days to pay Contractor any sum finally determined to be due, Contractor may, 10 days after written notice to the City and the City's Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this section are not intended to preclude Contractor from making a claim as provided in this Contract for an adjustment in contract price or contract times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this section.

ARTICLE 12 - MISCELLANEOUS

1) Giving Notice

a) Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered at or sent by registered or certified mail, postage prepaid, or by recognized national carrier with evidence of delivery, to the addresses set forth in the Notice section herein, which address may be modified in writing by either party.

2) Computation of Times

a) When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

3) Cumulative Remedies

a) Except as otherwise expressly provided in this Contract, the duties and obligations imposed by this Contract and the rights and remedies available hereunder to the parties hereto are in addition to and are not to be construed in any way as a limitation of, any

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rights and remedies available to any or all of them which are otherwise imposed or available by laws or regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions herein will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

4) Headings

Article and section headings are inserted for convenience only and do not constitute parts of the agreement.

5) Limitation of Liability

The aggregate liability of each party to this Contract, in any and all causes of action arising under, out of or in relation to this Contract, its negotiation, performance, breach or termination (collectively “Causes of Action”), shall not exceed the amount of this Contract, as may be amended by written, fully executed change orders. This is so whether the Causes of Action are in tort, including, without limitation, negligence or strict liability, in contract, under statute or otherwise. As separate and independent limitations on liability, both the City’s and Contractor’s liability shall be limited to direct damages. The City and Contractor shall not be liable for any indirect, incidental, special, or consequential damages.

6) Intellectual Property

a) Software and Materials. No Intellectual Property is assigned to the City hereunder. Excluding the City Data, Contractor shall own or continue to own all right, title, and interest in and to the Intellectual Property associated with the Software and related documentation, including any derivations and/or derivative works (the "Contractor IP"). To the extent, if any, that any ownership interest in and to such Contractor IP does not automatically vest in Contractor by virtue of this Contract or otherwise, and instead vests in the City, the City agrees to grant and assign and hereby does grant and assign to Contractor all right, title, and interest the City may have in and to such Contractor IP. The City agrees not to reverse engineer any Contractor Products purchased or provided hereunder.

b) The City Data. Notwithstanding the prior section, as between the City and Contractor, the City remains the owner of all right, title or interest in or to any City Data. The “City Data" means solely usage data collected by the Field Devices. To avoid doubt, The City Data does not include non-End User usage data collected by the Field Devices, Software, or FlexNet System, such as network and equipment status information or the like.

c) Consent to Use of the City Data. The City hereby irrevocably grants to Contractor a royalty-free, non-exclusive, irrevocable right and license to access, store, and use such the City Data and any other data or information provided to Contractor, to (1) provide the Service; (2) analyze and improve the Service; (3) analyze and improve any Contractor

or affiliate equipment, software, or service; or (4) for any other internal use. As used herein, "Service" means Contractor's obligations under this Contract.

d) Copy of the City Data. Upon the City's written request, Contractor will provide the City a quote to deliver a CMEP file consisting of the most recent 60 days of CMEP interval file data. Contractor will deliver the CMEP file in accordance with the quote upon the City's acceptance of the quote

7) Independent Contractor

a) This Contract does not create an employer/employee relationship between the parties. The parties agree and intend that the Contractor is a separate and independent enterprise from the City. This Contract shall not be construed as creating any joint employment relationship between the Contractor and the City and the City will not be liable for any obligation incurred by the Contractor, including but not limited to unpaid minimum wages and/or overtime, or any other obligation of the Contractor, whether arising under state or federal law, or contract, to Contractor's employees, subcontractors, or sub-vendors.

b) Contractor undertakes performance of the Services as an independent contractor and shall be wholly responsible for the methods of performance.

c) The Contractor shall not pledge the City's credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness and shall have no right to speak for or bind the City in any manner.

d) Contractor further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

8) Ambiguous Contract Provisions

The parties agree that this Contract has been the subject of meaningful analysis and/or discussions of the specifications, terms and conditions contained in this Contract. Therefore, doubtful or ambiguous provisions, if any, contained in this Contract will not be construed against the party who physically prepared this Contract. The rule commonly known as "Fortius Contra Proferentem" will not be applied to this Contract or any interpretation thereof.

11) Conflict of Interest

This Contract is subject to Chapter 112, Florida Statutes, and Contractor shall disclose the name of any officer, director, employee, or other agent who is also an employee of the City of Wauchula. The Contractor shall also disclose the name of any City of Wauchula employee

who owns, directly or indirectly, more than a 5% interest in Contractor's, or its affiliates, business entity.

APPENDIX A – CITY RFP

The City's RFP consists of the following documents:

File Name	Date
RFP 24-05 Wauchula AMI System Implementation	
Exhibit A – Wauchula AMI RFP Technical Specification	
Exhibit B – Wauchula AMI RFP Technical Response Template	
Exhibit C – Wauchula AMI RFP Pricing Worksheet	
Exhibit D – Wauchula AMI Supporting Data	

APPENDIX B – CONTRACTOR PROPOSAL

All elements of the Contractor's proposal, submitted in response to the RFP, are attached hereto and incorporated herein by reference and form a part of the Contract ("Contractor Proposal").

APPENDIX C – INITIAL PROJECT SCHEDULE

Contractor, City, and Consultant will develop a mutually agreeable project schedule within 2 weeks post the project kickoff.

A preliminary milestone schedule is provided below:

Milestone	Start Date	Finish Date	Duration in Calendar Days
Contract Commission Approved, Executed - Notice to Proceed	Mon 5/5/2025	Mon 5/12/2025	8
PO Signed & Received	Mon 5/12/2025	Fri 5/16/2025	5
Materials Ordered	Mon 5/19/2025	Fri 5/23/2025	5
Project Kickoff - Project Management Services Begin	Mon 5/26/2025	Fri 5/30/2025	5
AMI Deployment Planning Workshops, Architecture & Design	Mon 6/2/2025	Fri 6/27/2025	26
Initial AMI SaaS (Head-End, SA etc.) Deployment	Mon 6/2/2025	Fri 6/27/2025	26
NaaS Materials (Base Stations) Received	Fri 5/23/2025	Fri 6/27/2025	36
AMI NaaS (Base Stations, Activations etc.) Deployment	Mon 6/30/2025	Fri 7/11/2025	12
System Integration – Unit Testing	Mon 6/30/2025	Fri 7/18/2025	19
System Integration – System Testing	Mon 7/14/2025	Fri 8/8/2025	26
System Integration – System Design Specification Document	Mon 6/2/2025	Fri 8/8/2025	68
System Integration – FSAT & SAT Test Plans	Mon 6/2/2025	Fri 8/8/2025	68
System Integration – FSAT Testing	Mon 8/11/2025	Fri 8/29/2025	19
Utility Training #1	Mon 7/14/2025	Fri 8/8/2025	26
Water Materials Received	Fri 5/23/2025	Fri 8/8/2025	78
Electric FSAT & Limited Deployment Materials Received	Fri 5/23/2025	Fri 8/8/2025	78
Deployment Readiness	Mon 7/14/2025	Fri 9/12/2025	61
Field Deployment Setup	Mon 9/15/2025	Fri 9/26/2025	12
Water Mass Deployment	Wed 10/1/2025	Thu 10/1/2026	366
Electric Limited Deployment (~100 meters)	Wed 10/1/2025	Fri 12/12/2025	73
Utility Training #2	Mon 11/3/2025	Fri 11/14/2025	12
Water Final System Acceptance (SAT) Complete	Mon 8/3/2026	Fri 8/21/2026	19
Electric Mass Deployment Materials Received	Fri 5/23/2025	Fri 5/22/2026	365
Electric Mass Deployment Complete	Mon 6/1/2026	Fri 5/28/2027	362
Electric Final System Acceptance (SAT) Complete	Mon 3/1/2027	Thu 3/25/2027	25
Project Closure	Mon 5/31/2027	Fri 6/18/2027	19

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APPENDIX D – PRICING & PAYMENT SCHEDULE

1) PRICING

Meter counts shown in this appendix are estimates. The City may purchase additional meters and installation services during the project at the prices shown in this appendix.

Appendix D Pricing is attached hereto.

2) PAYMENT TERMS

The following payment terms apply:

Item	Payment Description	Time Frame for Proposed Invoice
1	Field devices (handhelds etc.)	Upon delivery & setup validation
2	System Test Fixture	Upon delivery & setup validation
3	Meters, Intelligent Edge Devices, and Communication Endpoints (Hardware)	Monthly following successful installation. Any electric meters ordered but unable to be installed will be invoiced prior to Substantial Completion.
4	Field Meter, Intelligent Edge Devices, Installation & Retrofit Services	Monthly following successful installation
5	Mailers/Door Hangers	Monthly following successful installation
6	Field Remediation Services	Monthly following successful installation
7	Meter Disposal Credits	Monthly following successful installation
8	Non-metering edge devices	Upon FSAT acceptance
9	Installation Materials (meter boxes, lids, yokes, etc.)	Upon delivery
10	Program & Project Management	Per milestone schedule: 33% completion of system integrations (FSAT acceptance) 33% start of mass deployment 34% upon project completion (SAT acceptance)

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Item	Payment Description	Time Frame for Proposed Invoice
11	Field Installation Project Management	Monthly following successful installation
12	System Integrations	Upon FSAT acceptance
13	Training	Included in NaaS Payments
14	Community Engagement Support	Upon completion
15	Continuing Services –NaaS/SaaS Services (Year 1)	Upon FSAT acceptance
16	Continuing Services –NaaS/SaaS Services (ongoing)	Paid annually in advance prior to coverage anniversary

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APPENDIX E – NETWORK AS A SERVICE, SOFTWARE AS A SERVICE AND SPECTRUM LEASE AGREEMENT

The Network as a Service, Software as a Service, and Spectrum Lease Agreement is attached hereto.

The Contractor's NaaS/SaaS Agreements shall cover all supplied software including the head end system and any other current or future head-end applications and current software integrations.

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APPENDIX F – WARRANTIES

Key warranty provisions are summarized below and are subject to stated warranty limitations documented in the "City of Wauchula Warranty" and "Sensus G-500 Limited Warranty" attached hereto and incorporated herein by reference.

Product	Warranty Period
Electric Meters (Stratus IQ+)	1 year
Electric Meters (Aclara KV2C)	1 year
Water Meters (iPERL+)	20 years (15-year full warranty and 5-year pro-rated). Warranty is resetting upon return of non-working product.
Water Meters (ally)	15 years and 2500 valve actuations. Warranty is resetting upon return of non-working product.
Water Meters (OMNI+)	Register with Battery – 10 years Meter – 18 months from shipment
Water Meters (Cordonel)	20 years (15-year full warranty and 5-year pro-rated). Warranty is resetting upon return of non-working product.
Smart Point Communication Modules (520M, 522M)	20 years (15-year full warranty and 5-year pro-rated). Warranty is resetting upon return of non-working product.
Installation Warranty	1 year from the date the work is performed.

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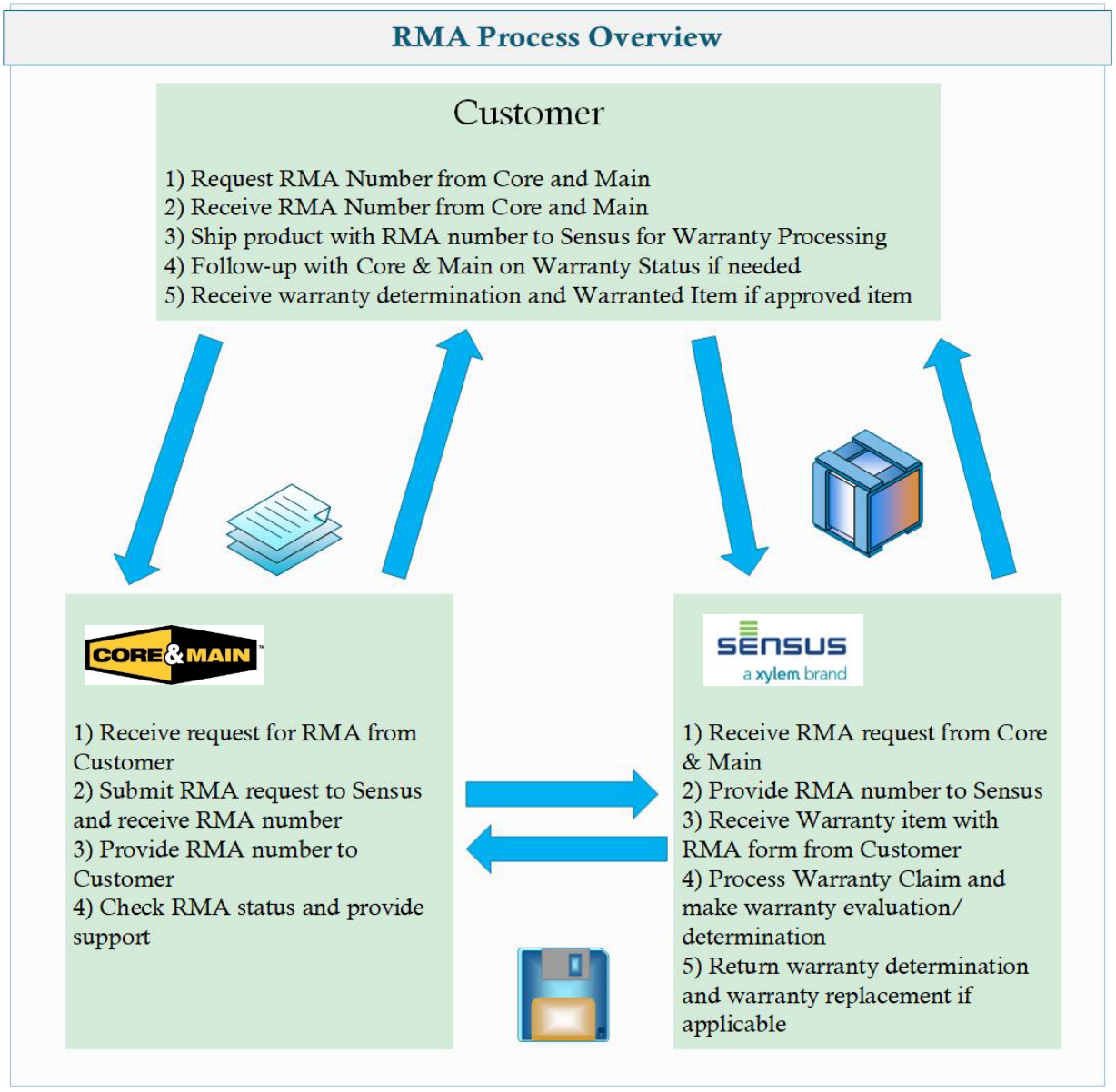
APPENDIX G – RMA PROCESS

RMA Process

City of Wauchula (Customer) and

Core & Main (Contractor) as Authorized Sensus Distributor

Contractor is responsible for the administration of the RMA process working with its manufacturer, Sensus. The following is an outline of the RMA process for warranty returns for Sensus equipment purchased through Core & Main.



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The following are the responsibilities of each party within the RMA process:

Responsibilities of Customer (City):

a) Upon discovery of items which the Customer feels are covered under warranty the Customer shall contact the Core & Main Lakeland office for an RMA number. Items to be supplied by Customer to Core & Main shall include

i. Item Description
ii. Serial Number
iii. Description of the Problem (in as much detail as possible)
iv. Part Number if Available

b) Upon receipt of the RMA number, Customer will ship the warranty items to the manufacturer (Sensus) at Customer's expense. Customers are asked to make a reasonable effort to ship routine RMA failure material within 5 to 7 days (or per contract terms) of field removal.

i. The material should be clearly tagged with the reason for removal and the removal date. The customer is responsible for creating and printing reject tickets at the customer's expense.

ii. The Customer's meter shop groups the respective meters based on category, where applicable.

iii. The removed material should be handled with care. Physical damage due to handling can void the warranty coverage of a unit.

iv. If the failed material is clearly damaged such that performance testing cannot be reasonably conducted, such material shall not be returned to Sensus under the RMA program unless deemed a design defect.
- Examples of this type of damage include cracked meters, module bases, or covers; water intrusion due to damage caused by external sources; tampered meters; and meters damaged due to improper installation.

v. Material received at RMA with visible physical damage is identified as 'customer-induced damage.

vi. Shipments are not accepted in the Sensus RMA department without a unique RMA number.

vii. All failed materials should be packaged properly to avoid damage during transport.

viii. The RMA number issued is valid for 30 days from the day of issuance. Material received after 30 days may not be received at the Sensus RMA dock without prior authorization.

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c) Customer will receive warranty coverage information from Sensus and determine course of action for any items that are out of warranty. Customer will receive any in-warranty replacements (shipped at Sensus expense).

d) Customer will query or receive RMA status from Contractor throughout the process.

Responsibility of the Contractor (Core & Main):

a) Contractor, as the authorized Sensus Distributor, shall assist with the procurement of an RMA number from the equipment manufacturer (Sensus) and assist in tracking and follow-up on warranty return items. In its role as RMA processor, Core & Main offers no assurance that items returned under warranty are in fact covered items and relies solely upon the manufacturer to provide coverage determination after examination.

b) Contractor shall provide shipping instructions that should be followed for routine RMA returns.

c) Contractor will handle all products associated with the project seamlessly including third-party OEM meters purchased through Contractor.

d) During the Warranty processing phase Core & Main will work with Customer to check the status and obtain follow-up information if required.

Responsibility of Sensus:

a) The Sensus RMA Services department is responsible for the evaluation, testing, and analysis report for all products, as well as the tracking, closure, and report consolidation of all RMAs.

b) Once Sensus makes a decision regarding warranty status this information will be relayed to Customer as required. Should item be under warranty claims will be processed according to standard manufacturer terms and conditions. Shipment for any replacement product will be sent directly from Sensus to Customer.

c) RMA Services is responsible for all product flow, test and repair, system data entry, and maintaining FIFO and deemed priority processing.

d) Sensus Product Engineering defines, and in some cases performs, non-standard RMA testing and analysis. Product Engineering also coordinates corrective action for repetitive product-related failure modes.

e) The Sensus RMA Services department and the Sensus Quality departments are responsible for monitoring system data and feedback, issuing corrective and preventative action, and tracking to complete these actions. The RMA Services department is also responsible for tracking and ensuring completeness of any special investigations, and reports, including recommendations for the customer to consider regarding product installation, use, or diagnostics.

f) Sensus evaluates the returned material and, if needed, will target completing repairs or replacement of the materials within 60 days of the receipt date.

g) Root causes are documented, when applicable.

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h) Once meters and/or SmartPoints are received by Sensus, they are logged in the web-based RMA system. The receipt date is used as a reference to track and report RMA backlog information in the monthly RMA report.

i) The RMA process for network equipment is the same as the process for meters and SmartPoint communication modules. Turnaround times are based on priority and can be mitigated by stocking the recommended network spare parts. If a network component fails during the warranty period, Sensus determines whether it will repair the component or replace it with new equipment.

j) If material is damaged during transit, Sensus notifies the customer of the damage.

k) Sensus provides monthly RMA status reports to the customer upon request.

l) Unless requested to return to the customer, all material dispositioned as 'do not replace under warranty' will be properly disposed of 60 days after the test report is issued. Material will be shipped back at the customer's expense.

m) A sampling of all returns (4%) is taken for destructive testing and is automatically replaced.

n) Any product initially targeted for repair which is subsequently determined to be irreparable is replaced. Normally, any product that is found to be repairable is repaired.

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Contract Bidding Documents

RFP 24-05 AMI System Implementation

City of Wauchula
126 South 7th Avenue
Wauchula, Florida 33873

RFP 24-05 AMI System Implementation

Publish Date:	All Questions Due:	Final Q/A Responses
July 9, 2024 by Noon	July 23, 2024 by 5:00PM	July 30, 2024 by 5:00 PM
Pre-Bid Meeting:	**Proposal Due & Opening Date:**	**Where to Deliver Proposal**
July 11, 2024, at 2PM	Tuesday August 27, 2024 at 3:00 PM EST	https://www.demandstar.com/app/browse-bids/states/florida
Location: City of Wauchula Administration Building 126 South 7th Avenue Wauchula, Florida 33873	**Location:** City of Wauchula Administration Building 126 South 7th Avenue Wauchula, Florida 33873	
Virtual Attendance: https://us02web.zoom.us/j/87880785484	**Virtual Attendance:** https://us02web.zoom.us/j/87082304850	

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DIVISION 6: TECHNICAL SPECIFICATIONS

DIVISION 1:
INSTRUCTIONS TO BIDDERS

INVITATION FOR BID

The City of Wauchula is requesting electronically sealed proposals for the Advanced Metering Infrastructure (AMI) System Project. Interested parties shall submit one (1) complete proposal package electronically through DemandStar with all of the required documents before the RFP due date and time of 3:00 PM local time, Tuesday, August 27, 2024, at which time sealed proposals will be opened by the City of Wauchula located at 126 South 7th Avenue, Wauchula, Florida 33873. Facsimile submissions will not be accepted. Bids received after said time will not be considered. The Bidder shall be solely responsible for the submission of their bid. **The DemandStar time stamp shall be conclusive as to the timeliness of filing.** The City of Wauchula is not liable for any costs incurred by a proposer in responding to this solicitation.

The City is soliciting proposals for the design and implementation of a successful, cost-effective two-way communication Advanced Metering Infrastructure (AMI) project. The City is seeking a full turnkey solution for design, system delivery, integration, field installation, and (system and network) managed services for ongoing operations for its field population of ~2,800 electric and ~2,700 water accounts. The project will also involve significant field remediation as estimated below.

Remediation	Estimated Quantity
Meter box repositioning or replacement	50%
Meter lid replacement	100%
Curb stop replacement	50%
Yoke replacement	100%
Pit Vacuuming	100%

All Bids shall be publicly opened, and bidder names read aloud and recorded at 3:00 PM local time on August 27, 2024 in the City of Wauchula Administration Building, 126 South 7th Avenue, Wauchula, Florida 33873.

Pre-Bid Meeting: All interested Bidders are highly encouraged to attend the entire meeting. The Pre-Bid meeting will be held at 2:00 PM local time on July 11, 2024 in the City of Wauchula Administration Building, 126 South 7th Avenue, Wauchula, Florida 33873. A virtual option is also available via Zoom at https://us02web.zoom.us/j/87880785484.

Questions: All questions regarding this Request for Proposals shall be submitted via email:
scamacho@cityofwauchula.com

Pursuant to section 287.05701, Florida Statutes, the City is prohibited from requesting documentation of, considering, or giving preference to a vendor based on the vendor's social, political, or ideological interests when determining if the vendor is a responsible vendor.

SECTION 1.1: GENERAL INSTRUCTIONS TO BIDDERS

1.1.1 Defined Terms in the Instructions to Bidders

A. The words and terms defined in DIVISION 3: TERMS AND CONDITIONS are hereby incorporated by reference into this part.

1.1.2 Minimum Qualifications for Eligibility to Bid

A. Receipt of this Solicitation and other Bid and Contract related documents from the Owner or its designated representatives does not constitute the Owner's approval of the Bidder's qualifications.

B. Bidders shall have the following minimum qualifications to be considered eligible to bid in response to this Solicitation. It is the responsibility of the Bidder to ensure and certify that it meets the minimum qualifications. Bidders not meeting all of the following criteria will not have their Bids considered for Award.

1. Bidder shall have been in the business of performing projects of the same scope for at least the past five (5) years.

2. Bidder shall demonstrate that it has successfully completed at least three (3) projects of similar scope and scale to the Work described herein, for at least two (2) different Florida government agencies within the past five (5) years. Bidder shall submit names and contact information for each referenced project. Factors the Owner may consider to make a determination of the Bidder's eligibility under this criterion include but are not limited to:

   a. The Bidder's ability to perform work in a satisfactory manner as evidenced by the Bidder's past performance on other projects performed for the Owner, and

   b. The Bidder's past performance of satisfactory work as evidenced by project descriptions submitted for three stated projects as part of the Bid and the Owner's verification of associated references; and

   c. The Bidder's past performance as evidenced by any other information the Owner gathers or obtains during the Bid review process, including but not limited to information included on the Bidder's Qualifications questionnaire.

C. The Bidder certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds and other credentials required by law, Contract or practice to perform the Work. The Bidder also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Bidder shall immediately notify the Owner of the change.

1.1.3 Bid Security

A. Each Bid is to be accompanied by a Bid Security made payable to the Owner in an amount at least equal to five (5) percent of the Bidder's maximum Bid Price and in the form of a Certified Check or Bid Bond. Failure to furnish the required Bid Security will disqualify the Bid.

1.1.4 Subcontractors

A. The Bidder shall supply with their Bid a list of all Subcontractors and Suppliers that it intends to use for the Work. The Successful Bidder shall not be permitted to use Subcontractors and Suppliers other than those shown in the Bid unless good cause is shown and prior written consent is obtained from the Owner.

B. If the Bidder plans to use a single Subcontractor or Supplier to perform over 50% of the Work, the Bidder shall obtain the Owner's approval prior to the opening of Bids. Failure to obtain the Owner's approval will disqualify the Bid.

C. Bidder's choice of subcontractors or subconsultants must be approved by the Owner. While the Owner shall have the right to approve or reject each subcontractor or subconsultant, such approval shall not be unreasonably withheld.

D. The Bidder may not use as a Subcontractor or Supplier, any Bidders that were rejected in the Bid process due to incomplete status or unqualified Bids.

1.1.5 Payment and Performance Bonds

A. As stated in DIVISION 3: TERMS AND CONDITIONS of the Contract Documents, the successful Bidder shall be required to furnish a Payment Bond and a Performance Bond in accordance with Section 255.05, *Florida Statutes* prior to the start of any Field Work.

1.1.6 Estimated Quantities Provided for Bidding Reference

A. The Bidder understands and agrees that the Owner's estimated Contract amounts shall not obligate the Owner in any way to issue Purchase Orders under the Contract of this amount, or any amount of Work under the Contract. The Owner may, at its sole discretion, issue Purchase Orders under the Contract totaling more or less than the estimated amounts, or may award the Contract, and is under no obligation to issue any Purchase Orders under the Contract. In the event that quantities change after Award, the changes to price and/or scope shall be made in accordance with the terms and conditions stated in the Contract Documents.

B. Any item not shown on the Bid Form, but that is shown in Exhibit A – Wauchula AMI RFP Technical Specification, that is required to perform the Work, or that is required as part of a complete and operable system, shall be included in the Bid Price.

1.1.7 Existing Site Conditions & Technical Data

A. Where the Bidder visits sites, no Work or other disturbance is to be performed while at the site without written permission by the Owner in advance of the site visit. The Bidder shall comply with all safety requirements described in the Bid Documents and the Owner may require the Bidder to show proof of a minimum of $1 million of general liability insurance.

B. No reports of Hazardous Materials at the Site are known to the Owner or the Engineer, unless disclosed in the specifications.

C. The Bidder is solely responsible for obtaining and verifying all technical data necessary to submit its Bid.

1.1.8 Pre-Bid Clarifications & Addenda

A. All questions regarding the Bid Documents must be submitted via email to the address: scamacho@cityofwauchula.com by the published Questions Due Date (see cover page). The Bidder shall promptly give the Owner written notice of any errors, conflicts or ambiguities it discovers in the Bid Documents.

B. If the Bidder objects in any manner to the Terms and Conditions or Technical Specifications, the objection must be addressed in writing no later than ten (10) business days prior to the Bid Opening Date. The Owner will address the objection in an Addendum if the Owner believes that a clarification or change is necessary.

C. The Owner may issue Addenda prior to the opening of Bids to change or clarify the intent of the Bid Documents. The Owner will issue written responses to questions and requests for clarifications received by the stated deadline in the form of Addenda, and will distribute Addenda to all Bidders.

D. The Bidder shall be responsible for ensuring it has received all Addenda prior to submitting its Bid and shall acknowledge receipt of all Addenda by completing the Bidder's Representation section on the Bid Form in DIVISION 5: FORMS. All Addenda will become part of the Bid Documents and any resulting Contract Documents. Failure to acknowledge receipt of Addenda may be grounds for rejection of a Bid at the Owner's sole discretion.

1.1.9 Completing the Bid Form

A. Prospective bidders responding to this RFP are requested to provide all of the information listed in this section. Submittals that do not respond completely to all of the requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged. The key documents associated with this RFP are summarized:

Document	File Type	Notes
Exhibit A – Wauchula AMI RFP Technical Specification	PDF	Contains project description, goals, and the technical requirements for the AMI solution.
Exhibit B - Wauchula AMI RFP Technical Response Template	MS Word	Bidder to provide requested information, and responses to the technical requirements in this file. Detailed sections are further elaborated below.
Exhibit C - Wauchula AMI RFP Pricing Worksheet	MS Excel	Bidder to provide ALL pricing in this file.
Standard Submittal Forms	MS Word	Bidder to complete all standard submittal forms included in Division 5 and upload via DemandStar.
Exhibit D – Wauchula AMI RFP Supporting Data	MS Excel	Supporting data provided to the Bidder for consideration (e.g. account information etc.)

The Bidder is expected to complete the Standard Submittal Forms in Division 5, Exhibit C – Wauchula AMI RFP Pricing Worksheet and Exhibit B - Wauchula AMI RFP Technical Response Template. Exhibit B consists of the following sections:

i. **Cover Letter**

Insert a cover letter (up to 2 pages) explaining why the City should select the Bidder for this deployment.

ii. **Bidder Overview & Project Personnel**

Name of firm(s), address, contact person, telephone number. Include certificate(s) of authorization to offer professional services, including prime as well as supporting firms.

Proof of authorization (SUNBIZ) to transact business in the State from the Florida Secretary of State, from prime and supporting firms.

Overview & description of proposed project personnel.

Project References: Description of contracts or projects completed and services provided that demonstrate the firm's ability to perform each category of work required in the last five (5) years. Project references to include relevant functionality:

- AMI Solutions (electric, electric/water AMI with water only areas)
- AMI – Tyler ERP Pro Customer Portal
- AMI – Tyler ERP Pro CIS system

List of three (3) client references with contact names and telephone numbers. Bidder shall demonstrate that it has successfully completed at least three (3) projects of similar scope and scale to the Work described herein, for at least two (2) different Florida government agencies within the past five (5) years.

Provide Customer Site Visits requirement response.

iii. **Technical Solution**

Provide a succinct and easy-to-understand synopsis of the proposed hardware and software solution and the Bidder's vision for successful systems integration and ongoing managed services administration. Technical information to be detailed in this document includes proposed meters, physical interconnection, communications backbone (including available options), required communications studies to ensure appropriate coverage, and a summary of all software programs required to the City's desired AMI project objectives (i.e. web-based customer portal, MDM Lite, etc.) and the proposers' plan to integrate proposed products with existing City systems in a manner that minimizes risk of failure and burden to the City's limited staff. Critical to this section will be disclosure regarding the attributes of the system being proposed as defined in the technical requirements within the technical specification. This section should be limited to 20 pages since most of the technical and pricing information will be in the Bidder's RFP table submittals.

iv. **Cutover Plan**

The Bidder must be able to support the required system integrations while having the Tyler billing system remain functional during the system's rollout. The Proposer should provide a description of how the Bidder will support this need and ensure a smooth transition to full AMI billing operations with meters being removed and replaced daily.

v. **Mandatory Proposal Requirements**

Responses (Comply=Yes/No) to each of the mandatory requirements. Failure to comply to all Mandatory requirements may result in disqualification.

vi. **Clarifications, Assumptions, and Exceptions**

Add all clarifications, assumptions, and exceptions related to the proposal

vii. **Responses to Requirements Tables**

List responses to each of the requested requirement tables provided in the Exhibit B - Wauchula AMI RFP Technical Response template.

B. The Bidder, or its authorized agent or officer of the firm, shall sign the Bid Form. Failure to sign the Bid Form may disqualify the Bid.

C. The Owner will review the Bids to determine that they meet the specifications set for the Work in the Bid Documents. The Owner may disqualify any Bids that deviate from the

requirements of this Solicitation, and those that include unapproved exceptions or amendments.

D. Failure to complete and submit all forms and documentation required in the Bid Documents may disqualify the Bid.

1.1.10 Modification or Withdrawal of Bids

A. The Bidder may modify or withdraw its Bid at any time prior to the advertised Bid Opening by giving written notice to the City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873. The Owner shall not accept any modifications to Bids after the advertised Bid Opening. The Bidder shall not withdraw its Bid for a period of 120 calendar days following the advertised Bid Opening.

1.1.11 Submitting the Bid Documents

A. The Responding Firm is directed to submit all proposals online through Demand Star no later than the date and time specified on the cover page of this solicitation document or as may be subsequently amended via Addenda. Proposals will not be considered and cannot be entered online after the above-referenced closing date. The City will not be responsible for a late proposal due to the vendor's inability to respond and upload their bid response in a timely manner.

B. It is the Responding Firm's responsibility to read and understand the requirements of this RFP. Unless otherwise specified, the Responding Firm must use the proposal forms located on DemandStar. All proposals shall be submitted in the English language. All prices, terms and conditions proposed in the submitted response shall be expressed in U.S. Dollars, and will be firm for acceptance for period of at least one hundred eighty (180) calendar days until finalized and governed by contractual terms

C. All information marked by the Owner or the Bidder as "Confidential Information" that is included in the Solicitation or that is submitted by the Bidder as part of its Bid shall be handled in accordance with the terms and conditions stated in DIVISION 3: TERMS AND CONDITIONS.

1.1.12 Opening of Bids

A. The Owner will open Bids at the date, time and location stated in the Invitation for Bid, or as may be subsequently amended via Addenda. At the Bid Opening, the Owner will publicly open and read each Bidder name whose proposal was received prior to the advertised deadline for bid submissions, except those that have been properly withdrawn. The City bid processing complies with all relevant Florida Statutes pertaining to public records.

B. The Owner has the right to waive any irregularities or informalities in the Bids.

1.1.13 Calculation of Bid Price

A. The Owner will use the Bidder's base bid when making price comparisons for Award purposes.

B. The Owner will consider alternate Bids only if the Bidder submits a base Bid in accordance with the Bid Documents. The Owner will review alternates on the Bid Form and will reject or accept at the Owner's sole discretion.

1.1.14 Award

A. The Owner will Award the Contract to the most responsive and responsible Bidder whose Bid meets or exceeds specifications (e.g. technical, contractual, and price considerations), in accordance with the Contract Documents. The Owner reserves the right to reject any/all Bids, in whole or in part, as deemed to be in the Owner's best interest.

1.1.15 Notice of Award

A. The Owner intends to Award one Contract for as many items as possible to achieve maximum benefit from this Contract. The Owner may Award more than one Contract, based on certain groupings of items, which the Owner may revise or reorganize, or the Owner may exclude line items if in its best interest. In the event the Owner makes an award as a result of this Solicitation, the Owner will issue a Notice of Award, in writing and signed by an authorized Owner's Representative as notice to the Bidder that the Owner has deemed it the successful Bidder.

B. The Notice of Award will be accompanied by relevant Contract Documents for execution. Unless expressly waived by the Owner, the Successful Bidder shall execute a Contract for the Work in a form acceptable to the Owner within the timeframe stated on the Notice of Award. If the Bidder fails to execute the Contract Agreement form or associated documents, or to obtain the necessary bonds, licenses or insurances as required, or if it fails to act on an Owner-issued Purchase Order ("PO"), the Owner may cancel the Award with no further liability to the Bidder, retain the Bid Security, and Award to the next most responsive and responsible Bidder.

C. Upon receipt of the completed documents, the Owner will execute the Contract Documents and issue the Contractor one fully executed original copy. No other Owner action shall constitute acceptance of the Bid.

1.1.16 Notice to Proceed

A. Upon receipt of the executed Contract, the required Payment Bond, Performance Bond, and compliant Certificate of Insurance, the Owner will issue a Notice to Proceed in writing and signed by an authorized Owner's Representative as authorization for the Contractor to proceed with the Work, unless otherwise stated in the Contract.

B. In the event that the Owner intends to authorize the Successful Bidder to proceed with Administrative Work only, or with only a portion of the Work, then the Owner shall state the specific limitations of such authorization in a written notice, and the Owner will issue a separate Notice to Proceed to authorize the Contractor to begin Field Work, when applicable, or to perform the remainder of the Work, or any portion thereof. The Contractor shall ensure that it is prepared to begin Field Work upon receipt of the Notice to Proceed. Any Work performed outside of this partial authorization shall be at the Contractor's risk and the Owner shall have no obligation to pay for such Work.

1.1.17 Certification and Representations of the Bidder

A. By signing and submitting a Bid, the Bidder certifies and represents as follows:

1. That it has carefully examined all available records and conditions, including sites if applicable, and the requirements and specifications of these Bid Documents, including but not limited to all Technical Specifications, Supporting Data, exhibits and attachments thereto, prior to submitting its Bid.

2. That every aspect of its submitted Bid, including the Bid Price and the detailed schedule for the execution of the Work, are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Owner. The Owner assumes no responsibility for any understanding or representation made by any of the Bidder's representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that the Owner assumes the responsibility.

3. That the individual signing the bid is a duly authorized agent or officer of the submitting firm. Bids submitted by a corporation must be executed in the corporate name by the President or a Vice President. If an individual other than the President or a Vice President signs the bid, satisfactory evidence of authority to sign must be submitted with the bid. If the bid is submitted by a partnership, the bid must be signed by a partner whose title must appear under the signature. If an individual other than a partner signs the bid, satisfactory evidence of authority to sign must be submitted with the bid. The corporation or partnership must be in active status at the Florida Division of Corporations at the time of submission of the Bid.

4. That the submitting Bidder maintains in active status any and all licenses, permits, certifications, insurance, bonds and other credentials including not limited to business registration tax necessary to perform the Work. The Bidder also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Bidder shall immediately notify the Owner of any change.

5. That it has read, understands and will comply with the Article 1.1.19 of this section entitled "Ethics."

1.1.18 Conflict of Interest

A. Any Bidder bidding the construction phase of a project cannot at the time of Bid submittal, be affiliated with or have any direct or indirect ownership interest in the architect/engineer ("Designer') of record. The Bidder will also be prohibited from bidding if the Designer has any direct or indirect ownership interest in the Bidder. Should the Owner erroneously award a contract in violation of this policy, the Owner may terminate the contract at any time with no liability to Contractor, and Contractor shall be liable to the Owner for all damages, including but not limited to the costs to rebid the Project. The purpose of this policy is to encourage open, fair and competitive bidding and to eliminate any actual or perceived advantage that one bidder may have over another. In addition to this policy, Design Build projects are governed by the provisions of Section 287.055(9)(b), *Florida Statutes*.

1.1.19 Ethics

A. By signing the Bid Form, the Bidder certifies this Bid is made without any previous understanding, agreement or connection with any other person, firm, or corporation submitting a Bid for the same Work other than as a Subcontractor or supplier, and that this Bid is made without outside control, collusion, fraud, or other illegal or unethical actions. The Bidder shall comply with all Owner ordinances, policies and procedures regarding business ethics.

B. The Bidder shall submit only one Bid in response to this Solicitation. If the Owner has reasonable cause to believe the Bidder has submitted more than one Bid for the same Work, other than as a Subcontractor or Supplier, the Owner may disqualify the Bid and may pursue debarment actions.

C. This solicitation is subject to Chapter 112, Florida Statutes, and the Bidder shall disclose the name of any officer, director, employee, or other agent who is also an employee of the City of Wauchula. The Bidder also shall disclose the name(s) of any public officials who have any financial position, directly or indirectly, with this Bid by submitting such information with its Bid. Failure to do so will disqualify the Bid. If the Owner has reason to believe that collusion exists among the Bidders, the Owner will reject any and all Bids from the suspected Bidders and may proceed to debar the Bidder(s) from future Work.

D. Pursuant to Section 287.133, Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid or proposal on a contract to provide any goods or services to a public entity, may not submit a bid or proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact

business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list. In accordance with Section 287.133, *Florida Statutes* the Owner will reject Bids from any persons or affiliates convicted of a public entity crime as listed on the Convicted Vendors list maintained by the Florida Department of Management Services. The Owner shall not make an Award to any officer, director, executive, partner, shareholder, employee, member, or agent active in management of the Bidder listed on the Convicted Vendor list for any transaction exceeding $10,000 for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor list. By submitting a bid, the Bidder certifies that they are in compliance with this statute.

E. If the Bidder violates any requirement of this Section, the Bid may be rejected and the Owner may debar the offending companies and persons from future Work with the Owner.

1.1.20 Ex Parte Communication

A. Ex Parte Communication is strictly prohibited. Failure to adhere to this policy will disqualify the noncompliant Bidder's Bid. The Owner's policy on Ex Parte Communication will not prohibit the following:

1. Meetings called or requested by the Owner and attended by the Bidders for the purpose of discussing this Solicitation, evaluation, or selection process including, but not limited to, substantive aspects of the Solicitation. Such meetings may include, but are not limited to, Pre-Bid meetings, site visits to the Owner's or the Bidders' facilities, interviews/negotiation sessions as part of the selection process, and other presentations by the Bidders, all of which are requested by the Owner and will be limited to topics specified by the Owner.

2. The addressing of the Owner at public meetings advertised and conducted pursuant to Section 286.011, *Florida Statutes*.

3. The filing of a written protest to any proposed Award to be made pursuant to this Solicitation, evaluation and selection process, which filing and prosecution shall give notice to all Bidders. Protest proceedings shall be limited to open public meetings advertised and conducted pursuant to Section 286.011, *Florida Statutes* with no Ex Parte Communication outside those meetings.

4. Communications between the Owner representatives and the Bidder for routine matters arising from procurements other than this Solicitation.

5. Written communication between potential Bidders and the Engineer provided copies of written communications are provided to all Bidders.

1.1.21 Prohibition Against Contingent Fees

A. The Bidder warrants that it has not employed or retained any company or person, other than a bona fide employee working for the Bidder, to solicit or secure a contract with the Owner, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Bidder, any fee, commission, percentage, gift, or any other consideration, contingent upon or resulting from the Award or making of the Contract. For the breach or violation of these provisions, the Owner shall have the right to disqualify the Bid and pursue debarment or terminate the Contract without liability and at its discretion, to deduct from the Contract Price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration.

1.1.22 Protest of Bid and Award Process

A. Bidders shall file any protests regarding this Solicitation in writing, and shall submit such to the City Clerk noted on the Solicitation no later than three (3) business days following the event giving rise to the protest. Failure to submit a written protest within the timeframe herein will constitute a waiver of the right to pursue a protest.

B. The written protest shall include at minimum the following information:

1. Project or bid number of the solicitation protested;

2. Title of solicitation protested;

3. Specific identification of issue(s) protested; and

4. Requested action for correction.

C. The City Clerk will review the submitted information to ensure completeness and submit the issue to a committee comprised of the Owner's designated Project Manager for the Work, the City Manager and the Owner's Legal Counsel ("Protest Committee").

D. The Protest Committee will review the protest and may request a presentation by the Bidder of the protested issue. The Protest Committee will issue a written decision within fourteen (14) calendar days of receipt of the written protest.

1.1.23 Owner's Reservations

A. The Bid Documents provide potential Bidders with information to enable the submission of electronic offers. The receipt of Bid Documents is not a contractual offer or commitment by the Owner to purchase products or services.

B. Bids and Bid Prices shall be warranted for a period of at least one-hundred eighty (180) days following the opening of Bids, and until finalized and governed by contractual terms. No Bid may be withdrawn during such time period.

C. The Owner reserves the right to reject any or all Bids, or any part thereof, and/or to waive irregularities or informalities if such action is in its best interest. The Owner may reject any Bids that it deems incomplete, obscure or irregular including, but not limited to, Bids that omit a price on any one or more items for which prices are required, Bids that omit Unit Prices if Unit Prices are required, Bids for which the Owner determines that the Bid is unbalanced, Bids that offer Equal Items when the option to do so has not been stated, Bids that fail to include a bid bond, where one is required, and Bids from Bidders who have previously failed to satisfactorily complete Contracts of any nature for the Owner.

D. The Owner reserves the right to cancel, postpone, modify, reissue and amend this Solicitation at its discretion. The Owner reserves the right to cancel or change the date and time of the bid opening at any time prior to the advertised time.

E. The Owner may Award the Contract in whole or in part. In such cases whenever the Owner exercises any of these reservations, the Owner will make a reasonable effort to notify, in writing, all parties to whom Bid Documents were issued. The Owner may award multiple or split Contracts if it is deemed to be in the Owner's best interest.

1.1.24 Documents and Forms Included in the Bid Documents

A. The reference to and/or inclusion of the Contract Documents and other Contract related forms in the Bid Documents shall in no way be construed as an Award of the Work, or any portion thereof, or as an intention to award the Work. The Owner reserves the right to alter, amend or delete any portion of these forms, to exclude any form, or to require additional forms not listed herein prior to execution of the Contract Documents.

1.1.25 E-VERIFY REQUIREMENTS

Effective January 1, 2021, public and private employers, contractors, and subcontractors must require registration with, and use of the E-Verify system in order to verify the work authorization status of all newly hired employees. All Bidders are hereby notified that the City requires all vendors, contractors, and subcontractors to register with and use the E-Verify system as more fully set forth in the included Agreement.

1.1.26 Minority and Women's Business Enterprise Goals, Equal Opportunity and Non-Discrimination

A. The City hereby notifies all Bidders that Women/Minority Owned Business Enterprise are to be afforded a full opportunity to participate in any request for proposal by the City and will not be subject to discrimination on the basis of race, color, sex, gender, religion, or national origin.

B. The City is an equal opportunity/affirmative action employer. The City is committed to equal opportunity employment and expects firms that do business with the City to have a vigorous affirmative action program. Any proposer who enters a contract with the City must covenant and agree that no employee or applicant for employment with the proposer's company will be discriminated against during the course of employment or in the application process with respect to hiring, tenure, terms, conditions, or privileges of employment, because of race, color, religion, sex, gender, age, disability, national origin, marital status, political affiliation, familial status, pregnancy, gender or sexual orientation, or veteran or service member status.

C. Any bidder who enters into a Contract with the City must also acknowledge its continuous duty to disclose to the City if it or any of its affiliates, as defined by Section 287.134(1)(a), Florida Statutes, has been placed on the Discriminatory Vendor List. Pursuant to Section 287.134(2)(a), Florida Statutes: "An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity."

SECTION 1.2: REQUIRED FORMS TO SUBMIT WITH BID

1.2.1 Bid Forms

A. To submit a Bid in response to this Solicitation, all of the following forms must be completed and submitted as part of the Bid. Copies of the forms are contained in the Bid Documents or attached as exhibits. Additional copies may be requested by contacting the Owner.

1. Bid Form (form included in DIVISION 5: FORMS)

2. Bid Security (form included in DIVISION 5: FORMS)

3. Bidder's Qualifications and supporting information (form included in DIVISION 5: FORMS)

4. Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years (form included in DIVISION 5: FORMS)

5. Drug-Free Workplace Certificate (form included in DIVISION 5: FORMS)

6. Non-Collusion Affidavit (form included in DIVISION 5: FORMS)

7. Public Entity Crimes Statement (form included in DIVISION 5: FORMS)

8. Tabulation of Subcontractors and Suppliers (form included in DIVISION 5: FORMS)

9. Exhibit B – Wauchula AMI RFP Technical Response Template

10. Exhibit C – Wauchula AMI RFP Pricing Worksheet

[END OF SECTION]

DIVISION 2:
AGREEMENT

This Section is intentionally left blank as there is no sample agreement provided. Agreements will be determined during contracting.

DIVISION 3:
TERMS AND CONDITIONS

SECTION 3.1: DEFINED TERMS

3.1.1 Definitions

A. Words and terms defined in this section shall have the same meaning throughout all parts of the Contract Documents. Where intended to convey the meaning consistent with that set forth in its definition, a defined word or term is marked by initial capitalization. DIVISION 6: TECHNICAL SPECIFICATIONS may define additional words and terms where necessary to clarify the Work. Unless otherwise stated in the Contract Documents, definitions set forth in DIVISION 6: TECHNICAL SPECIFICATIONS shall apply only within DIVISION 6: TECHNICAL SPECIFICATIONS.

1. Addendum/Addenda: A change or changes to the Solicitation issued in writing by the Owner and incorporated into the Solicitation and Contract Documents.

2. Administrative Work: Actions primarily performed in an office environment and associated with preparing to perform or administer the Work including, but not limited to, preparing Work schedules, obtaining bonds, executing Contracts, securing resources and other actions specified in the Bid Documents, or otherwise prudent to ensure a timely, safe and otherwise compliant start and performance of Field Work. Administrative Work is not performed at the Work Location.

3. Application for Payment: A document seeking payment to Contractor from Owner for all or a portion of the Work, in accordance with the Contract Documents, and including at a minimum the following items: the Contractor name and address, a description of the product(s) or service(s) rendered, a valid Owner PO number, the amount payable, the payee name and address, any associated forms and any other supporting documentation required by the Contract Documents.

4. Approved Schedule: The approved progress schedule for performance of the Work approved by the Owner or the Owner's Representative, as most recently amended.

5. Bid Documents/Bidding Documents: The documents titled Instructions to Bidders, the Invitation for Bid, the Bid Form, all sample forms to be included in the Bidder's Bid, the sample Contract Documents, including Technical Specifications and forms included to provide the Bidder with a complete understanding of the Work requirements, excluding any technical data or test results that are provided as additional information regarding Work Location conditions.

6. Bid or Proposal: The document, including all forms and information, describing the Bidder's offer and submitted in response to this Invitation for Bids. Bid and Proposal shall be considered synonymous for the purpose of this Contract.

7. Bid Price: The total dollar amount of the Bidder's offer including, but not limited to, all labor, materials, overheads, profits, other expense, and any and all other cost

items incurred by the Bidder in successfully performing the Work in accordance with the Contract Documents.

8. Bidder: The respondent to this Solicitation.

9. Bond: A financial mechanism to guarantee a contractual obligation.

10. Change Order: A written order issued by the Owner after execution of the Contract to the Contractor, as may be recommended by the Engineer, signed by the Owner and authorizing an addition, deletion, or revision of the Work, or an adjustment in the Contract Price or the Contract Time. An executed Change Order resolves all issues related to price and time for the work included in the Change Order.

11. Contract: The Agreement for the Work executed by the Owner and Contractor as included in these Contract Documents.

12. Contract Administrator: The individual assigned by Owner, who is an employee of the Owner, to have authority over the Contract, including the authority to negotiate all elements of the Contract with the Contractor, authorize Change Orders within the maximum amount awarded, terminate the Contract, seek remedies for nonperformance including termination, and otherwise act on behalf of the Owner in all matters regarding the Contract. The Contract Administrator may authorize an Engineer and/or other Owner's Representative in writing to make minor changes to Field Work with the intent of preventing Work disruption.

13. Contract Documents: Contract Documents means the documents set forth in the executed Agreement form.

14. Contract Price: The total amount payable to the Contractor under the Contract, as set forth in the Agreement form, as most recently amended.

15. Contract Time: The number of calendar days or the period of time from when the written Notice to Proceed is issued to the Contractor to the date Contractor has agreed to complete the Work, as stated in the Agreement form, as most recently amended.

16. Contractor: The legal person, firm, corporation or any other entity or business relationship with whom the Owner has executed the Contract. Where the word "Contractor" is used it shall also include permitted successors and assigns.

17. Contractor Representative: The individual responsible for representing the Contractor in all activities concerning the fulfillment and administration of the Contract.

18. Contractor Supervisor: The individual employed or contracted by the Contractor to manage the Work on a day-to-day basis and ensure the Work is performed according

to the Contract. The Contractor Supervisor may be authorized by the Contractor Representative to act on Contract matters. Such authorization shall be in writing and delivered to the Engineer and shall clearly state the limitations of any such authorization. In the event that the Contractor Supervisor and the Contractor Representative is the same person, the Contractor shall notify the Engineer of such situation.

19. Defect or Defective: When used to modify the "Work," whether in lowercase or uppercase, Work that fails to meet the requirements of any required test, inspection or approval, and any Work that meets the requirements of any test or approval, but nevertheless does not meet the requirements of the Contract Documents.

20. Engineer: The individual assigned by the Owner (either an employee or a third party), who is a licensed professional engineer in the State of Florida, to provide engineering, design review, and/or construction management including, but not limited to, overseeing and resolving engineering/design issues with the Engineer for the Work, and conveying the Owner's instructions to the Contractor.

    The Engineer's authority includes interpreting the technical portion of the Contract Documents, deciding on matters relating to the execution and progress of the Work and evaluating the Contractor's performance. The Engineer may stop the Work when deemed necessary by the Owner. The Engineer will receive and adjudicate any claim of ambiguity or error in the technical portion of the Contract Documents and shall reduce any determination to writing and shall make a recommendation to the Owner. The Engineer is not a party to the Contract. The Engineer has no authority to approve changes to the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator.

21. Environmental Requirements: All laws, ordinances, statutes, codes, rules, regulations, agreements, judgments, orders, and decrees, now or hereafter enacted, promulgated, or amended, of the United States, the states, the counties, the cities, or any other political subdivisions in which the Work Location is located, and any other political subdivision, agency or instrumentality exercising jurisdiction over the Owner, the Work Location, or the use of the Work Location, relating to pollution, the protection or regulation of human health, natural resources, or the environment, or the emission, discharge, release or threatened release of pollutants, contaminants, chemicals, or industrial, toxic or hazardous substances or waste or Hazardous Materials (as defined in this Contract) into the environment (including, without limitation, ambient air, surface water, ground water or land or soil).

22. Equal Item: Item a Bidder chooses to offer in place of offering the brand name or manufacturer's item specified on the Bid Document when the Bid Document clearly states that the Bidder may offer such an item.

23. Ex Parte Communication: Any communication pertaining to this Solicitation between a Bidder or protester (or their respective employees, agents, or representatives, or someone otherwise acting on behalf of Bidder) and the Owner (its members, employees, agents, and representatives other than the designated Owner representatives in the Solicitation), during the Solicitation period through the Contract Award, and/or from the initiation of a protest through Contract Award or through protest resolution.

24. Field Order: An order given by the Owner's Representative, in writing or orally, to direct progress of the Work. A Field Order may authorize only minor variations to the Work as needed to ensure progress, and does not authorize the Contractor to incur additional costs, change the Contract Price or Contract Time.

25. Field Work: Actions associated with meeting the requirements of the Contract other than Administrative Work. Field Work is primarily performed at the Work Location.

26. Final Acceptance: The Owner's written notice to the Contractor that all Work as specified in the Contract has been completed to the Owner's satisfaction. Approval or recognition of the Contractor meeting a milestone or interim step does not constitute Final Acceptance of the Work. Final Acceptance is only applicable to the entirety of Work as specified in the Contract. Final Acceptance does not in any way limit the Owner's rights under the Contract or applicable laws, rules and regulations.

27. Final Completion: The point in time after which the Owner has accepted the Work, in accordance with DIVISION 3: TERMS AND CONDITIONS and the Contractor has fulfilled all requirements of the Contract Documents.

28. Hazardous Materials: Any substance which is or contains (i) any "hazardous substance" as now or hereafter defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. '9601 et seq.) ("CERCLA") or any regulations promulgated under or pursuant to CERCLA; (ii) any "hazardous waste" as now or hereafter defined in the Resource Conservation and Recovery Act (42 U.S.C. '6901 et. seq.) ("RCRA") or regulations promulgated under or pursuant to RCRA; (iii) any substance regulated by the Toxic Substances Control Act (15 U.S.C. '2601 et seq.); (iv) gasoline, diesel fuel, or other petroleum hydrocarbons; (v) asbestos and asbestos containing materials, in any form, whether friable or non-friable; (vi) polychlorinated biphenyls; (vii) radon gas; and (viii) any additional substances or materials which are now or hereafter classified or considered to be hazardous or toxic under Environmental Requirements (as hereinafter defined) or the common law, or any other applicable laws relating to the Licensed Property. Hazardous Materials shall include, without limitation, any substance, the presence of which on the Licensed Property, (A) requires reporting, investigation or remediation under Environmental Requirements; (B) causes or threatens to cause a nuisance on the Licensed Property or adjacent property or poses or threatens to pose a hazard to the health or safety of persons on the Licensed Property or adjacent property; or (C)

which, if it emanated or migrated from the Licensed Property, could constitute a trespass.

29. Holidays: The following days: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Eve, and Christmas Day.

30. Instructions to Bidders: The division of the Bid Documents labeled Instructions to Bidders.

31. Inspector: The individual(s) or company(ies) designated by the Contract Administrator to inspect and test the Contractor's performance and Contract compliance including materials, workmanship, safety, environmental compliance, project controls, administration and accounting, and other aspects of Contract compliance. The Inspector has no authority to approve changes to the Work, the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator. The Inspector may or may not be the same individual as the Engineer. The Contract Administrator may give the Engineer authority to appoint an Inspector.

32. Notice of Award: The issuance of a Notice of Award by the Owner to the successful Bidder notifying the Contractor that they have been authorized by the Owner to perform the work. A Notice of Award shall not be considered a Notice to Proceed.

33. Notice to Proceed: The written notice duly authorized and delivered by the Owner that authorizes the Contractor to begin Field Work. When indicated by the Owner, a PO may also serve as a Notice to Proceed.

34. Owner: The City of Wauchula.

35. Owner's Representative: The Engineer, Inspector, and other persons designated by the Contract Administrator as the Owner's Representative acting in a capacity related to the Work or Contract under the authority of the Contract Administrator.

36. Overtime: Work approved in writing by the Contract Administrator that is required to be performed beyond an employee's scheduled workday or work week, including Work performed on Holidays.

37. Payment Bond: The statutory Performance Bond contemplated by Section 255.05, *Florida Statutes*.

38. Performance Bond: The statutory Payment Bond contemplated by Section 255.05, *Florida Statutes*.

39. Preconstruction Meeting: A meeting conducted after Award and prior to the start of any Field Work between the Owner and the Contractor. The purpose of the meeting

may include, but is not limited to orientation, schedule, certification and permitting, and other preparatory or Work execution details.

40. Purchase Order (PO): A Work authorization document issued by the Owner with the words "Purchase Order" clearly marked across the top, a PO number used for reference shown on the front, a description of the Work or a listing of the applicable Contract Documents, an authorized Owner signature and stating the amount of lawfully authorized funds.

41. Quality Assurance: Actions that the Owner takes to assess the Contractor's performance under the Contract.

42. Quality Control: Actions that the Contractor takes to ensure it successfully completes the Work in full accordance with the Contract Documents.

43. Resident Project Representative (RPR): An employee or agent of the Engineer at the Work Location, acting as directed by and under the Engineer. The RPR's authority for this Contract is set forth in DIVISION 3: TERMS AND CONDITIONS.

44. Shop Drawings: Drawings, electronic and hard copy, that detail the fabrication, erection, layout and setting drawings; manufacturer's standard drawings; schedules; descriptive literature, catalogs and brochures; performance and test data; wiring and control diagrams; all other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and method of construction as may be required to show the Engineer that the proposed materials, equipment or systems and the position thereof are in compliance with the requirements of the Contract Documents.

45. Site: The Work Location.

46. Solicitation: The Invitation for Bids (which may be electronic) issued by the Owner, or by a third-party on behalf of the Owner, to solicit Bids or Proposals from Bidders that includes the Bid Documents.

47. Specifications: The provisions contained in the Technical Specifications.

48. Standard of Care: The standards of skill and care ordinarily followed by contractors performing similar services for a project of similar scope and complexity in the same geographical area of the Work during the time in which the Work is performed.

49. Subcontractor: A provider of services or materials performing Work under contract for the Contractor.

50. Substantial Completion: The time when the Owner determines that the Work (or a specified part thereof) is sufficiently complete to be utilized for the purposes for which it is intended or ready for the Owner or other contractors to perform

subsequent portions of the Work as stated in the Contract Documents. Recognition of the Work as Substantially Complete, as evidenced by issuance of a Certificate of Substantial Completion, does not represent the Owner's Final Acceptance of the Work.

51. Term: The period of time during which the Contract is in force, from formal Notice of Award to Final Completion, or termination. In some cases, and as expressly stated, some of the Contract requirements may extend beyond the Term of the Contract.

52. Technical Specifications: The division of the Contract Documents collectively labeled as the Technical Specifications, including any exhibits and attachments thereto. Technical Specifications have been prepared by the Owner or a third-party.

53. Unit Prices: The Bidder's charges, rounded to the nearest cent, to the Owner for the performance of each respective unit of Work as defined on the Bid Form for all items required for successfully performing the Work through Final Acceptance.

54. Work: Work includes the scope set forth in the Contract Documents together with all other additional necessities that are not specifically recited in the Contract, but can be reasonably inferred as necessary to complete all obligations and fully satisfy the intent of the Contract.

55. Work Change Directive: Written authorization recommended by the Engineer and signed by the Owner and issued to the Contractor after the Contract Effective Date recommending an addition, deletion or revision in the Work. A Work Change Directive shall not change the Contract Price or Contract Time, but shall be evidence that the parties expect the change ordered or documented to be incorporated into a subsequent Change Order.

56. Work Location: The place or places where the Work is performed, excluding the properties of the Contractor and/or the Subcontractor(s).

SECTION 3.2: PRELIMINARY MATTERS

3.2.1 Payment Bond and Performance Bond

A. Within five (5) business days of receipt of Contract Documents, the Contractor shall furnish a Payment Bond and a Performance Bond in an amount equal to one-hundred percent (100%) of the amount of the Contract Price, made out to the Owner in forms and formats approved by the Owner, as security for the faithful performance of the Work of Contract, in accordance with Section 255.05, *Florida Statutes*. In no case shall the date on the bonds form be prior to that of the executed Contract. The surety must be authorized and licensed to transact business in Florida.

B. A fully executed Payment Bond and Performance Bond must be recorded with the Clerk of Hardee County Court and delivered to the Owner before Work may commence. If the

Contractor fails or refuses to furnish or record the required bonds, the Owner will retain the Contractor's Bid Security as liquidated damages.

3.2.2 Preconstruction and Progress Meetings

A. Before starting field work, a preconstruction meeting will be held to: review the work; to review the work schedule; to establish procedures for submitting items including but not limited to applications for payment, the schedule of submittals, approving the applications for payment, and making payments; and, to establish a working relationship between the Owner and the Contractor.

B. The Preconstruction Meeting shall be attended by, but not limited to, the Owner, the Engineer, the Contractor Representative and the Contractor Supervisor. The Contract Administrator will notify the Contractor in writing of the meeting time and location at least two (2) days prior to the meeting date.

C. Construction progress meetings will be held at a frequency determined by the Owner, but shall not be more often than once per week. Such meeting(s) shall be attended by, but not limited to, the Owner, the Engineer, and the Contractor's Supervisor.

3.2.3 Contractor Review of Project Requirements

A. The Contractor shall review the Work requirements and specifications prior to commencing Work. The Contractor shall immediately notify the Engineer in writing of any conflict with applicable law, or any error, inconsistency or omission it may discover. The Owner will promptly review the alleged conflicts, errors, inconsistencies or omissions, and issue a Change Order or Purchase Order, as appropriate if the Owner is in agreement with the alleged conflict, and issue revised specifications. Any Work the Contractor performs prior to receipt of approved Change Order or Purchase Order will be at the Contractor's sole risk and will not be reimbursed.

B. The Contractor agrees that it will provide sufficient personnel to perform the Work and that it will perform the Work in a manner consistent with the Standard of Care set forth above and with the Approved Schedule. The Owner shall not be responsible for any delays caused by the Contractor’s failure to adequately staff the Work.

3.2.4 Contractor's Documents at the Work Location

A. The Contractor shall maintain at the Work Location for the Owner one record copy of all Contract Documents in good order and marked currently to record all Addenda and changes made during the Contract Term. The Contractor shall include copies of all Change Orders, Work Change Directives, Field Orders, and other written clarifications or interpretations with these record documents. These shall be available to the Owner’s Representatives and shall be delivered to the Engineer upon completion of the Work or at the request of the Engineer. The Owner and the Owner’s Representatives may use such documents in reviewing the Contractor’s final Application for Payment.

B. The Contractor shall also maintain detailed records of the Work for its own files. The Contractor shall make these records available to the Owner for inspection upon request. The Contractor shall maintain such records for three years after the final completion date.

3.2.5 Contractor's Field Office

A. The Contractor shall provide its own office facilities at the Work Location, as required. Unless specifically listed herein, the Owner provides no Work Location facilities or Work Location area for the Contractor facilities of any kind such as field office and material storage. If the Contractor establishes a Work Location-based office, the Contractor shall provide and maintain adequate telephone facilities at this office during the full Term of the Contract. If the Contractor has a local business office, this office may serve as a Work Location office for this Contract, but the Contractor must maintain an operational cellular phone at the Work Location while performing Work.

3.2.6 Commercial Activities on the Work Location

A. The Contractor shall not establish any commercial activities, or issue concessions or permits of any kind to third parties to establish commercial activities on lands owned or controlled by the Owner, or within the boundaries of the Work Location. The Contractor shall not allow its employees to engage in any commercial activities on the Work Location.

3.2.7 Compliance with Referenced Specifications

A. All Work, materials, systems or operations specified by reference to standard trade specifications or to manufacturer's published specifications shall comply with the requirements of the referenced specifications, except as modified by the requirements of this Contract. The referenced specification used shall be the latest published edition that is in effect on the effective date of this Contract unless a particular edition is specified. In case of a conflict, the specifications that contain the more stringent requirements will govern.

3.2.8 Licenses

A. The Contractor shall comply with all licensing and/or certification requirements pursuant to applicable laws, rules and regulations. The Contractor shall secure all licenses as required for the performance of the Work and shall pay all fees associated with securing them. The Contractor shall produce written evidence of licenses and other certifications immediately upon request from the Owner.

B. The Contractor shall ensure that any subcontractors or subconsultants retained to provide labor, services, or material for the Work are fully licensed and certified, as applicable.

3.2.9 Limitation of Accuracy of Informational Materials

A. For all drawings, test results, inspections, and other informational materials included as part of the Contract Documents, the Contractor understands and agrees that any existing facilities shown, including underground, overhead, and surface structures, and other delineations, and any other informational items provided as part of the Contract Documents are for reference only and are not to be used by the Contractor as the only indication of Work conditions.

B. Unless otherwise stated, the data furnished by the Owner or the Engineer to the Contractor, or by the Contractor to the Owner or the Engineer, that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

3.2.10 Permits

A. The Contractor shall secure, maintain, post as required, and pay for all building, plumbing, electrical, right-of-way, parking, roadway, railroad, shipping, freight, hazardous materials, and all other permits required for performance of the Work in full compliance with all applicable laws, rules and regulations. The Contractor shall perform all actions necessary to identify where permits are to be obtained and properly file for the permits.

B. The Contractor shall comply with all conditions of permits issued for the Work, either directly or indirectly, issued by federal, state, or local governmental agencies, which are hereby incorporated as part of these Contract Documents. The Contractor shall be solely responsible for resolving any issues and bearing all expenses including any damages suffered by the Owner that result from a finding of noncompliance during performance of the Work by any of the respective regulatory agencies including, but not limited to, all costs for delays, litigation, fines, fees of any kind, and other costs.

3.2.11 Work Information

A. In the event the Contractor requires additional information regarding the scope, technical specifications, Work Locations, personnel requirements, or other information pertinent to the Work or Contract, the Contractor shall request such information or clarifications from the Engineer in writing. Within the bounds of the Engineer's authority, the Engineer may provide the requested information to the Contractor.

3.2.12 Engineer's RPR Status During Construction

A. The RPR shall have the responsibilities set forth herein for this Contract.

B. Review the progress schedule, schedule of Shop Drawings, and Sample Submittals and Schedule of Values prepared by the Contractor and consult with the Engineer concerning acceptability.

C. Attend conferences and meetings with the Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings, and prepare and circulate copies of minutes thereof.

D. Serve as the Engineer's liaison with the Contractor, working principally through the Contractor's authorized representative, assist in providing information regarding the intent of the Contract Documents. Assist the Engineer in serving as the Owner's liaison with the Contractor when the Contractor's operations affect the Owner's on-site operations. Assist in obtaining additional details or information from the Owner, when required for proper execution of the Work.

E. Report to the Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to the Contractor clarifications and interpretations issued by the Engineer.

F. Record the date of receipt of Samples and approved Shop Drawings. Receive Samples which are furnished at the Site by the Contractor. Notify the Engineer of availability of Samples for examination. Notify the Engineer and the Owner if work is begun without reviewed shop drawings.

G. Consider and evaluate the Contractor's suggestions for modifications in the Drawings or Specifications and report such suggestions together with RPR's recommendations to the Engineer. Transmit in writing to the Contractor decisions as issued by Engineer.

H. Review of Work and Defective Work:

1. Conduct on–site observations of the Contractor's work in progress to assist the Engineer in determining if the Work is, in general, proceeding in accordance with the Contract Documents.

2. Report to the Engineer whenever RPR believes that any part of the Contractor's work does not conform to the Contract Documents or will imperil the integrity of the Work as indicated in the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; advise the Engineer of that part of work in progress that RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval.

I. Inspections, Tests and System Startups:

1. Verify that tests, equipment and system start-ups and operating and maintenance training are conducted in the presence of appropriate the Owner's personnel and that the Contractor maintains adequate records thereof.

2. Observe, record, and report to the Engineer appropriate details relative to the test procedures and system start-ups.

J. Record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of all of the Contractors, Subcontractors and materials and equipment Suppliers. Maintain records for use in preparing Work documentation.

K. Reports:

1. Furnish to the Engineer periodic reports as required of progress of the Work and of the Contractor's compliance with the Progress Schedule and Schedule of Shop Drawings and Sample Submittals.

2. Draft and recommend to the Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from the Contractor.

3. Immediately notify the Engineer of the occurrence of any Site accidents, emergency, acts of God endangering the Work, damage to property, or discovery of Hazardous Materials.

L. Review Applications for Payment with the Contractor for compliance with the established procedure for their submission and forward with recommendations to the Engineer, noting particularity the relationship of the payment requested to the Schedule of Values, Work completed and materials and equipment delivered at the Site but not incorporated in the Work.

M. During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Specifications to be assembled and furnished by the Contactor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to the Engineer for review and forwarding to the Owner prior to payment for that part of Work.

N. Completion:

1. Participate in a Substantial Completion inspection, assist in the determination of Substantial Completion and the preparation of list of items to be completed or corrected.

2. Participate in a final inspection in the company of the Engineer, the Owner and the Contractor and prepare a final list of items to be completed and deficiencies remedied.

3. Observe whether all items on final list have been completed or corrected and make recommendations to the Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

O. Limitations of the RPR's Authority: The RPR shall not:

1. Authorize any deviation from the Contract Documents or substitute of material or equipment (including "or-equal" items).

2. Exceed limitations of the Engineer's authority as set forth in the Contract Documents.

3. Undertake any of the responsibilities of the Contractor, the Subcontractors, the Suppliers or the Contractor's Superintendent.

4. Advise on, issue directions regarding, or assume control over safety practices precautions, and programs in connection with the activities or operations of the Owner or the Contractor.

5. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by the Engineer.

6. Accept Shop Drawings or Sample submittals from anyone other than the Contractor.

7. Authorize the Owner to occupy the Project in whole or in part.

8. Advise on issue directions, or assume control over means, methods, techniques, sequences, or procedures for the Contractor's Work.

3.2.13 Conflict of Interest

A. This contract is subject to Chapter 112, Florida Statutes. No member, officer or employee of the City during his/her tenure or for one (1) year after shall have any interest, direct or indirect, in the Contractor, this contract, or proceeds thereof. The Contractor shall also include this statement in all subcontracts for this work.

SECTION 3.3: SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE

3.3.1 Acceptance of Work - After Receipt, Inspection, Usage and Testing

A. The Contract Administrator will make the determination when Work is completed and there is Final Acceptance by the Owner, with consideration to the Engineer's and the Inspector's recommendations.

B. Final Acceptance will be made by the Owner only in writing, and after adequate time to ensure the Work is performed in accordance with Contract Documents in accordance with

Section 255.077, *Florida Statutes*. The Owner will reject any items delivered by the Contractor that are not in accordance with the Contract, and shall not be deemed to have accepted any items until the Owner has had reasonable time to inspect them following delivery or, if later, within a reasonable time after any latent defects in the work have become apparent.

C. The Owner may partially accept the Work. If the Owner elects to accept nonconforming items, it may, in addition to other remedies, be entitled to deduct a reasonable amount from the price as compensation for the nonconformity. Any Final Acceptance by the Owner, even if nonconditional, shall not be deemed a waiver, or settlement or acceptance of any Defect.

3.3.2 Substantial Completion

A. The Contractor shall notify the Owner in writing when a portion of the Work is ready for Substantial Completion and can be utilized for the purposes for which it was intended. The Contractor shall identify any deficiencies in the Work. Owner will inspect the Work and will give the Contractor written notice of either acceptance of that portion of the Work or additional deficiencies. The Contractor shall correct all deficiencies prior to Substantial Completion of the Work.

B. Whenever any portion of the Work is substantially complete and can be utilized for the purpose for which it was intended, the Owner may use it. Such use shall not be held in any way as a Final Acceptance of the Work or as a waiver of any provisions of the Contract.

C. Upon determination that the Work meets the requirements for Substantial Completion, the Owner will issue a Certificate of Substantial Completion.

SECTION 3.4: PRICE & PAYMENTS

3.4.1 Application for Payment and Payment Terms

A. The Contractor shall submit to the Engineer or the Engineer's RPR all Applications for Payment using the prescribed forms included in the Contract Documents and in accordance with the payment method agreed upon in these Contract Documents. The Owner will pay the Contractor the amount requested less any authorized deductions or retainage set forth in the Contract Documents within thirty (30) days after receipt of an acceptable Application for Payment from the Contractor subject to the provisions stated below.

B. The Owner may reject any Application for Payment within twenty (20) calendar days after receipt. The Owner will return the Application for Payment to the Contractor stating the reasons for rejection. Upon receipt of an acceptable revised Application for Payment, the Owner will pay the Contractor the revised amount within ten (10) calendar days.

C. The Owner may withhold payment if the Owner reasonably believes the Contractor is in violation of any conditions or terms of the Contract Documents. Reasons for withholding payment to the Contractor include, but are not limited to, a reasonable belief by the Owner that it may suffer damages as a result of potential or actual claims attributable to the Contractor; inability of the Contractor to complete the Work in a timely manner; or any failure of the Contractor to perform its obligations hereunder. If the Owner reasonably believes Contractor is in violation of any conditions or terms of the Contract Documents and the Owner wishes to withhold payment from the Contractor, the Owner shall (i) provide the Contractor at least ten (10) days written notice of the Owner's intent to withhold such amount which states the basis for such withholding; and (ii) afford the Contractor an opportunity to cure or otherwise address the Commission's concerns.

D. The Application for Payment may be subject to the review of the Owner's Representative for purposes of determining compliance.

3.4.2 Retainage

A. Pursuant to Section 255.078, *Florida Statutes*, as additional security for the proper performance of the Work, the Owner may deduct up to five percent (5%) retainage from the amount stipulated in the Invoice or Application for Payment and accepted by the Owner as eligible for payment.

B. In the case of early termination of the Contract, all payments made by the Owner against the Contract Price prior to notice of termination shall be credited to the amount, if any, due the Contractor. If the parties determine that the sum of all previous payments and credits exceeds the sum due the Contractor, the Contractor shall refund the excess amount to the Owner within ten (10) calendar days of determination or written notice.

3.4.3 Payment Method - Progress Payments and Schedule of Values

A. For the purposes of this Contract, the Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS.

3.4.4 Final Application for Payment

A. After the Contractor has, in the opinion of the Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, marked-up as-built record documents and other documents, the Contractor shall complete and submit to the Owner the final Application for Payment with consent of surety for final payment as notice that the Work, including the correction of all deficiencies, is complete. By submitting the final Application for Payment, the Contractor certifies the following:

1. That the Work has been satisfactorily completed;

2. That no liens have attached against the property and improvements of the Owner;

3. That no notice of intention to claim liens are outstanding;

4. That no suits are pending by reason of the Work;

5. That all workers' compensation claims known to the Contractor have been reported to the Owner;

6. That the surety provides a release; and

7. That no public liability claims are pending.

B. Within ten (10) calendar days of receipt of the Contractor's final Application for Payment, the Engineer shall review the final Application for Payment and make a recommendation to the Owner. The Owner shall make final payment to the Contractor in accordance with the Application for Payment provisions of the Contract.

3.4.5 Prompt Payment to Subcontractors and Suppliers

A. When the Contractor receives payment from the Owner for labor, services or materials furnished by Subcontractors and Suppliers that are hired by the Contractor, the Contractor shall remit payment due (less proper retainage) to those Subcontractors and Suppliers within fifteen (15) calendar days after the Contractor's receipt of payment from the Owner and obtain a Release of Lien for each payment made. Nothing herein shall prohibit the Contractor from disputing, pursuant to the terms hereof, all or any portion of a payment alleged to be due to its Subcontractors and Suppliers. In the event of such dispute, the Contractor may withhold the disputed portion of any such payment only after the Contractor has provided written notice to the Owner and to the Subcontractor and Supplier whose payment is in dispute, stating the amount in dispute and specifically describing the actions required to cure the dispute. The Contractor shall deliver such notice to the Owner and to the said Subcontractor or Supplier within ten (10) calendar days following the Contractor's receipt of payment from the Owner. The Contractor shall pay all undisputed amounts due within the time frames specified herein.

B. The Contractor shall submit a Release of Lien for the prior month's payment included in any Application for Payment.

C. The prompt payment requirements herein shall, in no way, create any contractual relationship or obligation between the Owner and any Subcontractor, Supplier, or any third-party, nor create any Owner liability for the Contractor's failure to make timely payments as required. The Contractor's failure to comply with the prompt payment requirements, however, shall constitute a material breach of its contractual obligations to the Owner.

3.4.6 Taxes

A. The Contractor shall include the cost of all applicable State and Local Sales Taxes in the submitted Bid Price. The Owner reserves the right to directly purchase any materials or equipment to reduce project costs due to State and Local Sales Taxes. A deductive Change Order will be drafted to remove any Owner Direct Purchases from the Contract.

B. The Contractor shall be responsible for the payment of any applicable State and Local taxes relating to the purchase of equipment and materials required for the completion of this project.

3.4.7 Allowances

A. When the Contract Documents indicate that the Owner has provided the Contractor with an allowance for specified portions of the Work, the Contractor shall provide such Work in a manner acceptable to the Owner.

B. Allowance items shall include all costs to the Contractor (less any applicable trade discounts), including all applicable taxes, costs for unloading and handling materials and equipment at the Site, labor, installation, overload, profit, and other expenses set forth in the Contract Documents as part of the allowances.

SECTION 3.5: INSURANCE & INDEMNITIES

3.5.1 The parties agree that 1% of the total compensation paid to the Contractor for the services provided under this Agreement constitutes specific consideration to the Contractor for the indemnification to be provided as set forth in this Section 3.5.

3.5.2 Environmental Indemnity

A. The Contractor shall hold harmless, indemnify, and defend the Owner and the Engineer, including without limitation, its officers, directors, members, representatives, affiliates, agents and employees, successors and assigns (the "Indemnified Parties") and will reimburse the Indemnified Parties from and against any and all claims, suits, demands, judgments, losses, costs, fines, penalties, damages, liabilities and expenses (including all costs of cleanup, containment or other remediation, and all costs for investigation and defense thereof including, but not limited to, court costs, reasonable expert witness fees and attorney fees) arising from or in connection with (a) the Contractor's, including, but not limited to, its agents, affiliates or assigns (''Parties''), actions or activities that result in a violation of any environmental law, ordinance, rule, or regulation or that leads to an environmental claim or citation or to damages due to the Contractor's or other Parties' activities, (b) any environmental, health and safety liabilities arising out of or relating to the operation or other activities performed in connection with this contract by the

Contractor or any Party at any time on or after the effective date of the contract, or (c) any bodily injury (including illness, disability and death, regardless of when any such bodily injury occurred, was incurred or manifested itself), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any person in any way arising from or allegedly arising from any hazardous activity conducted by the Contractor or any Party. The Owner will be entitled to control any remedial action or any proceeding relating to an environmental claim. This indemnification agreement is separate and apart from, and is in no way limited by, any insurance provided pursuant to this Contract or otherwise. This section relating to indemnification shall survive the Term of this Contract, and any holdover and/or Contract extensions thereto, whether such Term expires naturally by the passage of time or is terminated earlier pursuant to the provisions of this Contract.

3.5.3 Indemnification

A. Contractor shall, to the fullest extent permitted by law, indemnify, defend, and hold harmless the Commission from claims, suits, liability, loss, expense, or damages, including all attorneys' fees and costs, arising from the negligent acts or omissions by, the willful misconduct of, or the failure to comply with applicable laws by Contractor or those for whom the Contractor is responsible in the performance of this Agreement. The indemnification required under this Agreement will not be limited in any way by the limits, terms, or conditions of any insurance policy.

B. Contractor, for itself and on behalf of its agents, employees, subcontractors, and subconsultants, shall to the fullest extent permitted by law indemnify, and hold the Commission harmless from and against any and all losses, expenses, claims, demands, and causes of action, including attorneys' fees and costs, asserted against the Commission by any person (including without limitation, Contractor's employees, Contractor's subcontractors and subconsultants, and employees of such subcontractors and subconsultants, for injury to persons, including death, or for loss of or damage to property or failure of the completed work to perform as required by this Agreement, to the extent arising out of the negligent acts or omissions of Contractor or any entity for which it is responsible in performing the Work, or the violation by Contractor or any entity for which it is responsible of any law, regulation, ordinance, code or standard applicable to the Work. The indemnification required under this Agreement shall not be limited in any way by the limits, terms, or conditions of any insurance policy.

C. The provisions of Article 3.5.2 shall survive the completion or termination of this Agreement

3.5.3 Insurance Requirements

A. Before starting and for four years beyond Final Acceptance of the Work, and without in any way limiting or altering its liability under the Contract, the Contractor shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Schedule	Amount
Workers' Compensation	
Florida Statutory Coverage and Employer's Liability (including appropriate Federal Acts)	Statutory Limits (Workers' Compensation) As required by law (Employer's Liability)
Contractor's General Liability	
Completed Operations and Products Liability Property damage and bodily injury	$1,000,000/occurrence, $2,000,000 annual aggregate
Personal Injury Liability	
Property Damage Liability insurance will provide Explosion, Collapse and Underground Hazards (XCU Coverage) as appropriate	
Automobile Liability	
Bodily Injury Property Damage	$200,000/person, $400,000/accident $400,000/accident
Contractual Liability	
Bodily Injury Property Damage	$500,000/accident $1,000,000 annual aggregate
Builder's Risk Insurance	
Amount to be determined by Owner	

B. The Contractor's General Liability policies shall be effective for four (4) years after the Work is complete. The above Indemnification provision is separate and is not limited by the type of insurance or insurance amounts stated above.

C. The Contractor shall specify the Owner and all of its Officers, Agents, and Employees, and the Engineer as additional insureds for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by the Owner. The Contractor shall provide the Owner with a Certificate of Insurance and an opportunity to inspect a certified copy of each policy applicable to this Agreement. The Certificate of Insurance must name as an additional insured the Owner and all of its Officers, Agents, and Employees, excluding worker's compensation and professional liability; must provide that such insurance is primary to any other insurance available to the additional insureds with respect to claims covered under the policy; and must provide that such insurance coverage applies separately to each insured against whom claims are made or suit is brought; but the inclusion of more than one insured shall not operate to increase the insurer's limit of liability.

D. Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to the Owner. All insurance coverage shall be written with an insurer having an A.M. Best Rating of a least the "A" category and size category of VIII. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to the Owner for approval. All policies required under this section must be an “Occurrence” form. The policies shall contain a waiver of subrogation in favor of the Owner.

E. The Contractor’s and its Subcontractors’ Certificates of Insurance shall be mailed to the Owner at City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873.

F. The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until thirty (30) days after receipt of written notice by the Owner.

G. The Contractor's self-insured retention or deductible per line of coverage shall not exceed $25,000.00 without the permission of the Owner.

H. If there is any failure by the Contractor to comply with the provisions of this section, the Owner may, at its option, on notice to the Contractor, suspend the work for cause until there is full compliance.

I. Owner may, at its sole discretion, purchase such insurance at the Contractor's expense provided that the Owner shall have no obligation to do so and if the Owner shall do so, it shall not relieve the Contractor of its obligation to obtain insurance.

J. The Contractor shall not be relieved of or excused from the obligation to obtain and maintain such insurance amount and coverages.

K. Any subcontractors of the Contractor shall procure and maintain the insurance required of the Contractor hereunder during the life of the subcontract. Subcontractors’ insurance may be either by separate coverage or by endorsement under insurance provided by the Contractor.

3.5.4 Title and Risk of Loss

A. Ownership, risks of damage to or loss of the Work shall pass to the Owner upon Final Acceptance of the work. The Contractor shall assume all risk of loss or damage to the Work while items are in transit and/or in the Contractor's custody until such time that the Owner issues written notice of Final Acceptance of the work.

SECTION 3.6: GENERAL PERFORMANCE OF WORK

3.6.1 Care of Property Owners

A. The Contractor agrees to provide excellent customer service throughout the execution of the Work during both scheduled Work hours and Overtime in the manner, as a minimum, as set forth below:
   1. The Contractor shall notify the affected property owners prior to any planned outages, line flushing, valve simulations and driveway construction. The notification will be produced by the Contractor and approved by the Owner's Representative.

   2. Within one (1) business day of receiving a concern from a property owner regarding the Work, the Contractor shall notify the Engineer in writing of each customer concern reported directly to the Contractor's personnel. Such notification shall include, as a minimum: the Contractor's name, date and time the concern was communicated to the Contractor, the name, address and phone numbers for the affected party, the nature of their concern and any action that was taken or any action currently underway to resolve the concern.

3.6.2 Workmanship

A. In addition to performing its Work in accordance with the Standard of Care, the Contractor shall perform all Work in a safe, workmanlike and professional manner, and so as to render a neat and uniform appearance. The Contractor shall handle all material in such a way as to preserve its finish and protective coatings from damage. General arrangement shall be satisfactory to the Engineer.

3.6.3 Work Location Cleanliness

A. The Contractor shall, at all times, keep the Work Location free from an accumulation of waste materials or rubbish caused by its operations. At the completion of the Work, the Contractor shall remove all waste materials and any rubbish from and about the project, as well as any tools, construction equipment, machinery and surplus materials, in accordance with applicable laws, rules and regulations. If the Contractor fails to clean up at the completion of the Work, the Owner may do so as provided elsewhere in the Contract and charge the cost thereof to the Contractor.

3.6.4 Surveying

A. Unless specifically stated in the Contract Documents as being provided by the Owner, the Contractor shall be responsible for all surveying necessary to commence and perform this Work. The Contractor shall employ a land surveyor registered in the State of Florida to reference and restore all property corners and/or monuments that may have been disturbed and to ensure accurate horizontal and vertical control during the construction of this project and for staking locations for new structures. Height and spacing of stakes are to be as specified elsewhere herein or as directed by the Engineer.

B. All Work shall be done to the lines, grades and elevations shown on the drawings. Any Work improperly located may be ordered removed and replaced at the Contractor's expense. The Contractor shall be responsible for making its own determination of water

table variations and shall not assume that any water levels shown by the aforesaid boring data will necessarily be maintained at the level indicated. The Contractor shall investigate the conditions above or below the surface of the ground as it may deem necessary for the proper and timely performance of its Work including, but not limited to, the making of borings.

SECTION 3.7: SCHEDULES

3.7.1 Preliminary Schedules

A. Within ten (10) calendar days following the Effective Date of the Agreement, the Contractor shall submit to the Engineer the following items:

1. Preliminary Progress Schedule stating days or dates for starting and completing the various stages of the Work in an orderly manner within the Contract Times, indicating any milestones specified in the Contract.

2. Preliminary Schedule of Submittals, showing a reasonable schedule for reviewing and processing required submittals

3. Preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and reasonably subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Prices shall include all overhead and profit.

4. Preliminary Schedule of Progress Payments (Draw Schedule).

B. No later than ten (10) calendar days prior to the date for the submittal of the first Application for Payment, the Contractor and the Engineer shall meet to review the acceptability of the Progress Schedule, the Schedule of Submittals and the Schedule of Values. The Contractor shall have an additional ten (10) calendar days following such meeting to make any adjustments and to resubmit the schedules.

C. The Engineer's approval of the any of the Schedules shall not relieve the Contractor of its sole responsibility for the Progress Schedule, the sequence and scheduling of Work, and the progress of the Work.

D. No progress payments shall be made to the Contractor until the Engineer has approved the Schedules.

E. Upon reasonable written request from the Owner, the Contractor shall furnish to the Owner such evidence as the Owner may reasonably require relating to the Contractor's ability to fully perform the Work in the manner and within the time specified by this Agreement.

3.7.2 Work Days

A. The work schedule is established on the basis of working five (5) days per week, eight (8) hours per day. The Owner may require the Contractor to base its schedule on an accelerated Work Schedule or multiple shifts. The Contractor shall not schedule work on Holidays without obtaining prior written approval from the Owner.

B. The Contractor shall, at no additional cost to the Owner, increase or supplement its working force and equipment and perform the Work on an Overtime or multiple shift basis when directed by the Owner and upon notification that the Contractor is behind schedule. The Contractor shall submit a revised schedule in writing demonstrating the Contractor's schedule recovery plans.

C. The Contractor understands and agrees that the rate of progress set forth in the Approved Schedule already allows for ordinary delays incident to the Work. No extension of the Contract Time will be made for ordinary delays, inclement weather (except as set forth in Section 19, “Force Majeure”), or accidents, and the occurrence of such events will not relieve the Contractor from the requirement of meeting the Approved Schedule.

3.7.3 Changes to the Progress Schedule

A. The Contractor may submit proposed revisions to the Progress Schedule to the Engineer for review provided that they do not change the Contract Time, and the Engineer may adjust the Progress Schedule from time to time.

B. Proposed changes to the Progress Schedule that change the Contract Time will only be made in accordance with Section 14, “Changes to Work.” Adjustments to the Contract Time shall only be made via Change Order.

C. The Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS for additional information regarding Progress Schedules.

SECTION 3.8: MATERIALS, TOOLS & EQUIPMENT

3.8.1 Temporary Utilities

A. The Contractor shall furnish and install all temporary water, electricity and other utilities required to accomplish the Work. The Contractor shall obtain the water required for carrying out the Work from fire hydrants, existing water main connections, or new connections approved by the Owner. The Contractor shall install a back flow preventer and water meter assembly if construction water is necessary. Upon Substantial Completion of Work, the Contractor shall remove all evidence of temporary connections and lines.

B. Prior to initiating any construction Work, the Contractor shall coordinate and schedule the provision of temporary utility service required during construction and arrange for the permanent installation and connection of utilities for the completed Work.

3.8.2 Material Delivery Locations

A. The Contractor shall notify, in writing, the Engineer of all planned material delivery/receiving locations. Such notification shall be prior to initiation of shipment. The Engineer will provide the Contractor with specific written approval for each delivery/receipt location, which will not be unreasonably withheld.

3.8.3 Storage of Equipment

A. The Contractor shall be responsible for all storage of materials, equipment, vehicles, tools, and all other items associated with the Work. Such storage shall comply with applicable regulations appropriate for the items being stored to ensure suitable care for items and protection from theft, vandalism, or inappropriate use. The Contractor is solely responsible for the costs for such storage, unless otherwise indicated in the Contract Documents, and any costs associated with noncompliant storage including, but not limited to, loss and damage to items. In the event that the Owner directs the Contractor to stop the Work, costs associated with storing equipment or materials will be compensated in accordance with the provisions stated herein in Section 14, "Change in Work." The Contractor shall ensure that the Engineer has access to Work-related storage on an as needed basis during regular Work Hours and Overtime.

3.8.4 Contractor Laydown Area

A. In the event the Contractor decides to utilize public or private property as a laydown area, the Contractor shall enter into a written agreement with the entity or individual who owns the property. The Owner shall have access to all laydown areas. Upon submission of the Contractor's first Invoice or application for payment to the Owner, the Contractor shall provide the Owner with a copy of such signed written agreement. The Contractor shall submit to the Owner a letter of release from the entity in connection with Contractor's final Application for Payment to the Owner.

3.8.5 Substitutions

A. Whenever materials or equipment are specified or described in the Contract by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required.

B. Materials or equipment of other suppliers may be accepted by the Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named.

C. The Contractor shall make written application to the Engineer for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified.

D. The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice the Contractor's completion of the Work within the Contract Time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other Contract directly with the Owner for Work on the Contract) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fees, royalties, permits or any other costs.

E. All variations of the proposed substitute from that specified shall be identified in the application and available maintenance, repair and replacement service shall be indicated.

F. The application shall also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other Companies affected by the resulting change, all of which shall be considered by the Engineer in evaluating the proposed substitute.

G. Requests for review of substitute items of material and equipment will not be accepted by the Engineer from anyone other than the Contractor.

H. The Engineer may require the Contractor to furnish, at the Contractor's expense, additional data about the proposed substitute.

I. If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract, the Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the Engineer, if the Contractor submits sufficient information to allow the Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract.

J. The Engineer will be allowed a reasonable time within which to evaluate each proposed substitute; such time shall not be deemed justification for an extension of the Contractor's time for completion of the Contract.

K. The Engineer will be the sole judge of acceptability, and no substitute shall be ordered, installed or utilized without the Engineer's prior written notice, which shall be evidenced by a Change Order.

L. The Owner may require reimbursement for the cost associated with the Engineer’s evaluation of substitutions.

M. The Owner may require the Contractor to furnish, at the Contractor's expense, special performance guarantee bonds or other surety with respect to any substitution.

3.8.6 Disposition of Salvage Material

A. All material to be removed from the Work Location, relocated or salvaged, shall be inspected by the Engineer immediately prior to removal, and the Engineer's decision as to the salvageability shall be final. Such material that can be salvaged, in the opinion of the Engineer, shall be stored at the Work Location on-site by the Contractor, as and where directed by the Engineer, or delivered to a location as directed. Under no circumstances may existing structures, plant or facilities be removed or demolished without obtaining prior written approval from the Contract Administrator.

3.8.7 Tools and Equipment

A. All tools and equipment used in the performance of the Work shall be used as intended by the manufacturer and in accordance with manufacturer operating manuals and industry practices, whichever is more stringent. The Contractor shall ensure that all tools and equipment used in the performance of the Work shall be of the size and quality suitable for safe and efficient performance of the Work. If the Contractor-provided tools and equipment do not meet these requirements, or if in the sole opinion of the Owner formed after considering relevant factors, the tools or equipment are inappropriate for performance of the Work, the Contractor agrees to remove the unacceptable tools and equipment and obtain tools and equipment the Owner considers suitable. Such replacement shall be entirely at the Contractor's expense, and no change to Contract Time will be allowed.

B. The Contractor is responsible for furnishing the security of any and all tools and equipment required to perform the Work.

SECTION 3.9: SAFETY & SECURITY

3.9.1 Safety and Protection Precautions

A. The Contractor shall comply with all applicable federal, state and local laws, ordinances, all Owner procedures and policies, and orders of any public body having jurisdiction for the safety of persons or protection of property. The Contractor understands and agrees that violation of any provision of this clause is grounds for immediate termination of the Contract and the Contractor is responsible for all Owner damages associated with such termination.

B. The Contractor shall ensure that Subcontractors and their personnel have all the necessary personal protective equipment and training needed to perform the Work safely.

C. The Contractor understands and agrees that it is responsible for paying all costs associated with providing a safe work environment including, but not limited to, any costs associated with any Owner directed safety improvements. The Contractor further understands and agrees that it is solely responsible for the safety of personnel and property associated with the Work, and that any actions taken by the Owner or the Owner's Representatives to prevent harm to persons or damage to equipment does not, in any way, relieve the Contractor of this responsibility.

D. The Contractor's Representative, or alternatively, the Contractor's Supervisor, shall be designated as the Contractor's individual responsible for the prevention of accidents.

E. The Contractor shall notify the police and fire departments as to its Work Location in order to ensure prompt response in an emergency.

3.9.2 Emergency Events

A. In the event that a system-wide emergency arises during the Term of this Contract for which the Owner requires assistance from the Contractor including, but not limited to, severe storms, large-scale fires, floods, and terrorist attacks, the Contractor acknowledges the importance of Owner infrastructure and agrees to support, with all its resources, skills and capabilities, and the maximum extent possible, all restoration efforts of the Owner. The Owner shall notify the Contractor when an emergency event occurs and the Contractor agrees to mobilize its full resources immediately. In the event conditions are such that an emergency event is likely in progress, but the Contractor has not been notified by the Owner, the Contractor shall make all efforts to contact the Owner to determine if and how it should respond. The Owner agrees to reimburse the Contractor for its actual costs incurred, plus overhead and profit, the total not exceeding twelve percent (12%), and any one-time expended cost incurred as a result of supporting the Owner during the emergency event.

3.9.3 Emergency Procedures

A. In emergencies affecting the safety of persons, the Work or property at the Work Location or any other area adjacent thereto, the Contractor, without special instructions or authorization from the Owner, is obligated to act to its best ability, to prevent threatened damage, injury or loss to the Work, any persons, or property. The Contractor shall give the Owner prompt written notice describing the emergency, its cause, actions taken, injuries and casualties, property damage, other damages, and impact on continued performance under this Contract.

3.9.4 Storm Preparedness

A. In the event of a Hurricane Warning, Tropical Storm Warning, or other large storm affecting the Work Location, the Contractor shall secure, or shall remove and store all equipment and materials at the Work Location including, but not limited to, cones, barricades, lights and signs. The Contractor shall begin taking such precautions as

necessary to secure the Work Location upon official issuance of mandatory evacuation of the area of the Work Location and no later than twenty-four (24) hours prior to predicted arrival of tropical storm or hurricane force winds, or when notified by the Owner to do so. These activities are considered a regular part of the Work, regardless of the frequency they are required.

3.9.5 Weather Protection

A. The Contractor shall provide proper facilities, take all necessary precautions and assume the entire cost for protecting the Work against weather conditions and for handling all storm, flood and ground water, sewage, or other seepage, that may be encountered during the performance of the Contract. The Contractor shall provide for such contingencies and for carrying on the Work in freezing weather by methods that meet with the approval of the Engineer. If the Contractor fails to provide such protection, or in the event of an emergency, the Owner may provide such protection at the Contractor's expense.

3.9.6 Project Security

A. The Contractor shall provide, at its expense, on-site security personnel at any time the facility's perimeter is unsecured, including but not limited to, alarms disabled, fences or gates down, traffic flows that require gates to be opened repeatedly and/or for more than one hour of the workday. The Contractor shall schedule security personnel. Where existing lighting is disabled or otherwise impacted by the Work, the Contractor shall provide temporary lighting equal to or exceeding that which exists.

3.9.7 Protection of the Environment

A. The Contractor shall immediately notify the Owner of any Hazardous Materials encountered during the Work and shall immediately cease work in the affected area until further direction is received from the Owner.

B. The Contractor and its Subcontractors and Suppliers shall comply with all applicable laws, rules and regulations including, but not limited to, all Environmental Requirements.

C. Asbestos, Lead, or Toxic Mold may be present at the Work Location. The Contractor shall notify the Engineer immediately upon discovery of asbestos, lead, toxic mold. The Contractor shall not disturb or remove known or discovered asbestos, lead, or toxic mold unless directed by the Engineer.

D. Hazardous Materials:

1. The Contractor shall bear full responsibility including, but not limited to, payment and liability for the transportation, use and disposal of any Hazardous Materials under the Contractor's control during the performance of the Work. Disposal of Hazardous Materials should only be disposed of at Owner approved facilities. The Contractor

shall provide the Owner with appropriate documentation showing proper disposal of its Hazardous Materials.

2. The Owner has identified and labeled equipment known to contain PCBs. The Owner will remove and transport any equipment so identified. The Contractor shall not remove or transport any equipment containing PCBs. The Contractor shall immediately notify the Owner of any questionable or unmarked equipment and the Owner will arrange for testing and identification.

E. Toxic Substances Introduced by the Contractor:

1. The Contractor shall notify the Engineer in writing of the type, quantity and disposal method of any toxic substance used during the performance of the Work. The Contractor shall be solely responsible for the use and disposal of any such toxic substances. The Contractor shall submit cleanup procedures to the Owner for review and written approval prior to the use of the toxic substance. In the event that a toxic substance escapes into the environment, the Contractor shall immediately notify the Engineer in writing of the occurrence and the actions taken. In the event that the Contractor encounters toxic substances in the course of construction, the Contractor shall immediately notify the Engineer verbally, with a written notification to follow. The Engineer shall arrange for disposal by the Owner.

2. The Contractor will be solely responsible for all waste material including paints, lubricants, fuels, solvents, and other chemicals used in connection with the Work. The Contractor will provide proper containers for waste materials and comply with all applicable laws, rules and regulations in their disposal. The Contractor will dispose of all empty containers off-site as soon as possible. The Contractor will designate one area for transferring paints and solvents from large containers (55-gallon drums) into smaller containers for daily use.

F. The Contractor understands and agrees that the Work Location may include wetlands or other environmentally sensitive areas. The Contractor shall not enter these areas during the performance of its Work, unless specifically authorized by the Engineer and appropriate state and federal permits have been obtained.

G. The Contractor and/or Subcontractor's employees shall not endanger wildlife species or domestic animals of any kind.

H. The Contractor shall immediately cease any activity that causes or results in a violation of the Owner's or the Contractor's environmental permits or federal, state and local laws and regulations. Such violation shall immediately be reported to the Engineer verbally, with written notification to follow. All additional costs due to the Contractor's noncompliance with the applicable environmental permits or Environmental Requirements shall be paid by the Contractor.

SECTION 3.10: OTHER WORK AND OTHER PROPERTY

3.10.1 Encroachments on Rights or Property

A. The Contractor shall be solely responsible for any encroachments on public property or on the rights or property of adjoining property owners to the Work Location, and shall hold the Owner harmless because of any encroachments that may result because of the Contractor's improper layout. In this regard, the Contractor shall, without extra cost to the Owner, remove any Work or portion of any Work that encroaches on the property other than that of the Work Location, or that is built beyond legal building or setback limits. The Contractor shall rebuild the affected Work or portion of Work at the proper location and in full compliance with the Contract Documents.

3.10.2 Interference With Existing Utilities

A. The Contractor acknowledges and agrees that there is a possibility that existing the Owner or other utility facilities may cross and/or lie parallel to excavations in the area where Work will occur. Although the Owner may indicate recorded obstacles on the drawings, it does not warrant that other subsurface obstacles do not exist. The Contractor shall be responsible for verifying the data furnished by the Owner and for fully investigating and locating additional obstructions including every type below, on or above the ground. The Contractor should regard these impediments as normal to construction. All costs for performing such work shall not be paid for separately, but shall be included in the Contractor's costs on the Bid Form.

B. The Contractor shall comply with all requirements of the Underground Facility Damage Prevention and Safety Act, Chapter 556, *Florida Statutes*.

C. In the event the Contractor encounters an unidentified utility during performance of the Work, the Contractor shall promptly cease Work in the affected area and shall immediately notify the Owner’s Representative in writing. The Owner will investigate the area and propose remedial actions in accordance with the provisions stated herein in the Section 14, "Changes to Work."

D. The Contractor shall work in cooperation with the Owner and representatives of existing utilities to plan and coordinate putting new Work into service so as not to interfere with the operation of the existing utilities. Such plans shall be adhered to unless deviations therefrom are expressly permitted in writing by the Contract Administrator.

E. The Contractor shall at all times conduct the Work in a manner that interferes as little as possible with the existing utilities. Any cables exposed during construction, whether energized or not, must be handled and protected as if they are energized. The Contractor shall so conduct its operations and maintain the Work in such condition that adequate drainage shall be in effect at all times. The Contractor shall not obstruct existing gutters, ditches and other runoff facilities. When working in the vicinity of overhead lines, the

Contractor shall request line rubber protection and pole holding services from the Owner of the overhead lines at least ten (10) calendar days in advance of performing the work.

F. The Contractor shall be solely responsible for any damages, interferences, and interruptions of service caused to any utility's assets and services including water, sewer, electric, telephone, gas, cable, and other utility services, that result from the Contractor's failure to fulfill the above stated requirements.

G. In the event the Contractor damages an existing utility, the Contractor shall immediately notify the property owner, the owner of the damaged utility and the Engineer. Should the damage cause an interruption of service, the Contractor shall be responsible for restoring service as soon as possible; however, the Contractor shall not make repairs, other than any required to restore safe conditions, without the approval of the property owner, or the owner of the damaged utility. The Contractor shall be responsible for coordinating any repair effort, and any associated costs should the utility owner or a licensed repair contractor be required to make the repair. The Owner reserves the right to deduct any unsettled claim amount from Contractor's invoices until such time as the claim is satisfactorily resolved.

3.10.3 Interference with Other Owner Work or Other Companies

A. The Contractor shall perform the Work in a manner that minimizes the interference with other Owner work, or with work performed by other companies. The Contractor shall coordinate the Work with other persons and companies employed by the Owner. If a difference of opinion regarding scheduling or coordination of the work arises between the Contractor and another Owner contractor(s) performing work at the Work Location, the Owner may arbitrate the matter. In such cases where the Owner makes a decision regarding the scheduling or coordination of the work, the Contractor agrees to fully abide by the Owner’s decision. Unless otherwise agreed in writing by the Owner, the Owner will not be responsible for additional costs.

B. Any claims arising against the Contractor from damages to other companies' work, equipment, machinery, tools or other property shall be settled directly between the Contractor and the other companies involved. The Owner will not, in any way, be a party to arbitrating or mediating any such disputes, nor shall the Owner be responsible for any costs associated with such disputes.

3.10.4 Interference with Railroads

A. The Contractor shall not build across, into, over or under, either temporarily or permanently, any portion of a railway or railway right-of-way without first obtaining all required permits. If the Contractor's operations render any railroad unsafe, the Contractor shall immediately notify the Engineer, and the railroad owner and take appropriate actions and such temporary safeguards as required to protect life, limb, and property, and to maintain orderly traffic.

B. The Contractor shall procure all railroad permits required for the Work beyond those procured by the Owner and the costs for such permits shall be included in the Bid Documents. All costs associated with railroad fees for railroad flagmen, watchouts, inspectors, supervisors, any additional training of Contractor's employees that is required by applicable laws, rules and regulations when performing Work in association with railways, any certifications required for successful completion of the Work and all other associated costs shall be included in the Bid Form.

3.10.5 Interruption of Service

A. The Contractor shall not operate any valves, nor otherwise interrupt water and/or sewer service, without first obtaining permission from and following the agreed upon Standard Operating Procedures previously set forth by the Owner.

B. If the Contractor must shut down a main or portion of a main, thereby causing an interruption of water service, the Contractor shall provide the Owner with the following information, in writing, a minimum of five (5) business days in advance of any anticipated interruption of service:

1. Date and time of outage.

2. Purpose of the outage.

3. Map of the area to be affected by the outage.

4. Letter stating all offices, businesses, and residents have been or will be notified by the Contractor at least four (4) business days in advance of the outage (unless the Owner chooses to issue such notification).

C. The Contractor is not authorized to proceed with the requested Work without prior written notice from the Owner that such actions are approved.

D. In the event of a major emergency that endangers life or property, the Contractor may take immediate action before notifying the Owner. In all cases, however, the Owner shall be notified in writing at the earliest opportunity after addressing the emergency.

3.10.6 Protection of Existing Facilities and Grounds

A. The Contractor shall be responsible for protecting all the existing facilities including, but not limited to, buildings, lawns, landscaping, sprinkler systems, and pavements, both public and private, that are encountered during the performance of the Work. At all times, the Contractor shall cooperate with the owners of such facilities by arranging and performing the Work in and around such facilities in a manner that facilitates their preservation, relocation, and/or reconstruction. The Contractor shall be responsible for the full restoration or replacement if the Contractor damages such facilities during or resulting from performance of the Work.

B. The Contractor shall verify the existing dimensions and clearances before laying out the Work. When the Work involves the laying of utility lines across landscaped areas and grassed areas, which may include, but is not limited to, irrigation systems, streets, sidewalks, and other paved areas, the Contractor shall protect and preserve all trees, shrubs, palms, landscaping, etc., and restore such areas and all paved areas to their original sound conditions using construction techniques and materials that are the same as existing including replacing plants and trees with those of similar size and age. In the case of planted areas, the Contractor shall maintain the restoration Work until positive growth has been acknowledged in writing by the Engineer.

C. All costs for such restoration and replacement work shall be included in the associated lines on the Bid Form, and shall not be paid for separately.

D. The Contractor shall not (except upon written consent from the property owner and Contract Administrator) enter or occupy with workers, tools, equipment or vehicles any land outside the easements, right-of-ways, or the Owner's property.

3.10.7 Temporary Closure of Roadways

A. The Contractor shall not close or obstruct any portion of a street, road, or private way without first obtaining permits. If any street or private way is rendered unsafe by the Contractor's operations, the Contractor shall make such repairs or provide such temporary ways and guards necessary for the protection and safety of persons on the Work and the public and for the orderly maintenance of traffic. All costs associated with temporary closure of roadways shall be included in the Bid price.

B. The Contractor shall notify the police and fire departments in writing if it will be necessary to close a street. The Contractor shall copy the Owner on all correspondence relating to street closure. The Contractor shall notify the police and fire departments prior to closure of the street. The Contractor shall be responsible for maintaining proper coordination with the proper authorities.

C. Temporary closure of business entrances must be approved in writing by and coordinated with the Owner.

D. For the purposes of this Contract, the Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS.

SECTION 3.11: DRAWINGS

3.11.1 Shop Drawings

A. The Contractor shall submit all Shop Drawings according to the Schedule of Submittals approved by the Engineer and the DIVISION 6: TECHNICAL SPECIFICATIONS.

B. Shop drawings shall establish the actual quantities, dimensions, materials and specified performance and design details of all manufactured or fabricated items, services and equipment that Contractor proposes to provide for the Work; indicate proper relation to adjoining Work; amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure; and incorporate minor changes of design or construction to suit actual conditions.

C. Shop drawings shall be complete in every detail, properly identified with the Contract name, Contract and subsection number for identification of each item, and state the qualifications, departures or deviations from the Contract, if any. Shop drawings for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. Each drawing shall have a clear space above the title block in the lower right-hand corner for the approval stamps of the Contractor and the Engineer.

D. In checking the Shop Drawings, the Contractor shall:

1. Verify all dimensions and field conditions, and shall check and coordinate the Shop Drawings of any section or trade with the requirements of all other sections or trades whose Work is related thereto, as required for proper and complete installation of the Work.

2. Verify all rough-in and connections for utilities shall conform to approved equipment Shop Drawings

3. Review and coordinate each Shop Drawing with other Shop Drawings and the Contract Documents

4. Determine and verify all information relative to Contractor’s responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety programs.

E. The Engineer will review the Shop Drawings and will return them to the Contractor stamped to indicate the action taken. For planning purposes, the Contractor shall allow a minimum of two (2) weeks for review of each Shop Drawing. The stamp will indicate that the Shop Drawing is "No Exception Taken", "Make Corrections Noted", "Revise and Resubmit" or "Rejected". Only those Shop Drawings stamped "Revise and Resubmit" or "Rejected" shall be resubmitted for subsequent review. Resubmittals shall be in the same form and number of copies as original submittals, with notation indicating a revised submittal. The Shop Drawings stamped "No Exception Taken" or "Make Corrections Noted" will be returned to the Contractor, who will be responsible for obtaining prints thereof and distributing them to the field and Subcontractors.

F. At the same time the Engineer returns a reviewed submittal to the Contractor it will forward two copies of each item stamped "No Exception Taken" or "Make Corrections

Noted" together with any conditions of approval, to for field and office use. The Engineer may revoke approval of Shop Drawings, should field conditions so dictate.

SECTION 3.12: INSPECTIONS, QUALITY & REPORTING

3.12.1 Contractor's Daily Reports

A. The Contractor shall complete and submit daily reports for each calendar day of the Work, starting with the date of the Notice to Proceed, and said reports shall be submitted to the Owner's Representative by noon of the following workday. The Contractor's failure to submit the daily reports as specified herein will be grounds for withholding payments.

B. Upon review of the Contractor's Daily Reports, any discrepancies in the information noted by the Owner's Representative will be provided to the Contractor. A revised Daily Report will be resubmitted within one (1) business day.

3.12.2 Reporting

A. The Contractor shall provide the reports as defined in the Contract Documents. The Contractor shall refer to DIVISION 6: TECHNICAL SPECIFICATIONS.

B. Where the reporting frequency is daily, reports shall be submitted by noon of the following workday. Where the reporting frequency is weekly, reports are due by Monday at noon, covering the prior workweek. Where Monday is a Holiday, the reports are due at noon on the next workday. Where reports are due monthly, reports are due by noon on the first business day of each month. Sample forms for reports may be included in the Contract Documents. Where they are included they are to be used. Where they are not included, the Contractor shall provide a sample of its proposed report format for each report to the Engineer at least one (1) week prior to its initial due date. The Engineer will review and either approve or reject the use of the report. Where the proposed report is rejected, the Contractor shall resubmit revised report formats, until the Engineer approves format. The Reporting Cycle shall begin on the Notice to Proceed date or the date of the purchase order, if used.

C. Where the Contract calls for reports to be submitted by the Contractor, such reports shall be in both paper and electronic format, with the electronic version submitted electronically via email to the Engineer.

3.12.3 Quality Control and Quality Assurance

A. The Contractor shall provide Quality Control to ensure the Work is performed in accordance with the Contract and in adherence with the Standard of Care. Quality Control shall be appropriate for the nature of the Work, and shall be conducted in a manner consistent with sound quality management and industrial engineering principles. The Contractor shall have only personnel trained in Quality Control techniques and experienced with the nature of the Work perform the Quality Control function.

B. The Owner may perform Quality Assurance activities. Such activities, whether performed or not, do not in any way limit or reduce the Contractor's requirements. The Owner may become aware of quality related problems during its performance of Quality Assurance, but has no obligation to notify the Contractor of its findings. The Contractor shall provide access to all areas of Work, including the Contractor's facilities, for the Owner's Quality Assurance personnel and the Owner's Representatives. The Owner will conduct Quality Assurance activities so as not to excessively interfere with the Work, however, where the Owner Quality Assurance personnel request specific actions of the Contractor, the Contractor shall comply with the request and agrees that such compliance is included as part of its Contract Price.

C. The Contractor shall refer to DIVISION 6: TECHNICAL SPECIFICATIONS.

3.12.4 Inspections and Testing

A. The Owner, or its designated representatives, will perform inspections at the Contractor facilities during normal business hours and in a manner that minimizes disruption to the normal day-to-day work activities of the Contractor. Contractor shall provide safe and proper facilities for inspection access and observation of the Work and also for any inspection or testing by others.

B. If the Contractor has covered or concealed any Work from inspection in any way that the Engineer has not specifically requested prior to the Owner's Representative's inspection, or if the Engineer considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at the Engineer's request, shall uncover, expose or otherwise make available the portion of the Work in question for observation, inspection or testing as the Engineer may require. The Contractor shall furnish all necessary labor, material and equipment to make such Work available.

C. The Contractor shall bear all expenses of uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including, but not limited to, compensation for additional professional services required by the Owner, and no change in Contract Time will be considered as a result of the foregoing.

D. The Owner may, at its sole discretion, grant the Contractor an extension of the Contract Time directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

E. All materials and equipment used in the construction of the Contract shall be subject to adequate inspection and testing in accordance with accepted standards. The Contractor shall select the laboratory or inspection agency for making all tests required by the specifications, and shall pay for this laboratory service direct, as a part of this Contract.

G. The Contractor shall pay for all required testing of materials and equipment. Two (2) copies of each test showing certification of each test shall be furnished to the Engineer

immediately after such test has been made and with the exception of concrete, prior to delivery of the materials or equipment tested to the Work Location. The Owner will not accept the materials or equipment until tests have been approved.

H. Materials of construction, particularly those upon which the strength and durability of the structure may depend, shall be subject to inspection and testing to establish conformance with specifications and suitability for uses intended. Test requirements for all materials are set out in the detailed specifications for that particular material. All materials and equipment prior to being incorporated in the Work, and required by the Engineer to be tested, shall be tested for conformance with contractual requirements. Standard items of a uniform nature may be accepted on the manufacturer's certification. Where specific performance and/or quality is referred to, it is the Contractor's responsibility to have the necessary tests performed by qualified persons to show that the contractual requirements are being met except those tests named in the Contact Documents to be performed by the Owner. Certified test results shall be submitted promptly in quadruplicate to the Engineer for review. All tests shall be performed in accordance with referenced standards. Where no reference is made, tests shall be performed in accordance with the methods prescribed by the American Society for Testing and Materials or such other organization as would be applicable.

I. The Contractor shall pay for any retests resulting from its failure to provide Work that passes required tests.

J. The Engineer, or the Owner appointed Inspectors may inspect any and all materials and Work. Such inspection may extend to any or all parts of the Work and to the preparation and manufacture of the materials to be used. The Inspectors shall not be authorized to alter, revoke, enlarge or relax the provisions of the Contract, nor will they be authorized to approve or accept any portion of the completed Work, nor to issue instructions contrary to the Contract. The Inspector shall inform the Engineer of the progress of the Work and the manner in which it is being done, and notify the Contractor of any infringement upon the Contract Documents. The Inspectors will have the authority to reject defective materials or to suspend any Work that is being improperly done subject to the final decision of the Engineer.

3.12.5 Performance Evaluation

A. The Owner may, upon completion of the Work or at any time during the Work, issue to the Contractor a written performance evaluation of the Contractor's performance of Work under this Contract. The evaluation will be based upon the Owner’s and the Engineer’s reports, inspections, and first-hand experience in dealing with the Contractor and the Contractor’s representatives. The performance evaluation will indicate whether the Contractor’s performance has been deemed “Satisfactory,” “Unsatisfactory” or “Top Performance” with regard to the following criteria:

1. Timeliness;

2. Customer Service to Owner;
3. Care of Owner's Customers;
4. Financial Performance;
5. Quality of Workmanship;
6. Quality of Materials & Equipment;
7. Safety;
8. Environmental;
9. Compliance with MBE/WBE Requirements; and
10. Project Administration.

SECTION 3.13: OWNER-FURNISHED ITEMS

3.13.1 Conditions of Provisioning

A. The Contractor understands and agrees that it shall be solely responsible for providing everything necessary to perform the Work and to be in full compliance with the Contract Documents, except for those items specifically listed herein as being provided by the Owner.

B. Any use of Owner-furnished items on non-Owner work is a breach of the Contract and a violation of the law. All Owner-furnished items are the property of the Owner when issued, stored by Contractor, and used in performance of the Work. The Contractor agrees that it shall use all Owner-furnished items in a manner consistent with industry practice, codes, laws, considering the condition of the Owner-furnished item, the skills of the individuals using the Owner furnished item, and all environmental conditions. The Contractor understands and agrees that where the Owner and the Contractor shall share Owner-furnished items, Owner usage shall always have priority over Contractor usage, and the Contract Administrator shall have sole authority to resolve any usage dispute and such resolution shall not result in any claim by Contractor.

C. The Contractor agrees to return to the Owner, and to the location as established by the Engineer, any unused or salvageable items prior to final payment. The Contractor agrees that the Owner has the right to audit and investigate at any time how the Contractor is using Owner-furnished items. The Owner will bill the Contractor for unaccountable Owner-furnished material at the current Owner cost.

3.13.2 Access to Work Locations

A. The Owner will provide, as indicated in the Contract Documents, and no later than the date when needed by the Contractor, access to the Work Location, including rights-of-way or access thereto, and such other lands that are designated for the Contractor's use. The Owner will secure easements for permanent structures or permanent changes in existing facilities, unless otherwise specified in the Contract Documents.

3.13.3 Contract Documents

A. After Contract Award, the Owner will furnish a maximum of one (1) complete set of the Contract Documents, or portions requested thereof, upon request by the Contractor. Additional copies will be supplied at cost to the Contractor.

3.13.4 Site Conditions

A. The Owner will provide to Contractor test data results from field tests. Such data has been determined by the Owner to be sufficient to describe the conditions to be expected during the performance of the Work. The Contractor shall not be entitled to any claim for additional costs associated with any ground related Work, unless the actual conditions found substantially differ from those described by the test data.

B. The Contractor is responsible for verifying Site conditions and obtaining additional data as the Contractor deems necessary. The Contractor will be responsible for all costs associated with the gathering of additional Site data.

SECTION 3.14: CHANGES TO WORK

3.14.1 Unforeseen Conditions

A. The Contractor understands and agrees that it is its responsibility to conduct due diligence prior to the start of Work. Such due diligence includes, but is not limited to, verifying all Work conditions, measurements, dimensions and latent and patent obstructions, the accuracy of drawings, test results, inspections and other informational materials provided in the Contract Documents, and any other causes for existing or potential changes to the Work prior to initiating the Work. In the event that the Work must be changed due to the Contractor's failure to fulfill the above requirements, the Contractor understands and agrees that it will be responsible for all costs associated with the changed condition.

B. In the event, however, that the Contractor exercises the requisite due diligence and a change to the Work becomes necessary resulting from conditions that are clearly unforeseen and that could not have been discovered, the costs for adjusting the Work in response to such unforeseen conditions shall be addressed as stated herein in Article 3.14.2 below titled "Changes in the Work and Change Orders."

3.14.2 Changes in the Work and Change Orders

A. The Engineer may issue to the Contractor a written Field Order to authorize minor changes to the Work having no impact on Contract Price or Contract Time. If the Contractor anticipates that the Field Order work will impact the Contract Price or Contract Time the Contractor should immediately notify the Engineer.

B. In the event of an emergency endangering life or property where it is appropriate for the Contractor to take action, the Contractor shall undertake such actions to preserve life and property. The Owner and the Contractor will determine after emergency is concluded, the extent of out-of-scope work performed by the Contractor, and the Owner will issue a Change Order or amend the Contract for such work, if any and as necessary.

C. Anything to the contrary notwithstanding, in the event that the Owner determines that a change must proceed immediately or if the Owner rejects all or a portion of the Contractor's estimated effect of a change, then the Owner may direct, and the Contractor shall commence immediately and perform until completion, the necessary services to implement the change. The Owner will issue such direction in the form of a written Work Change Directive. The Contractor shall be compensated for such change in the work, notwithstanding any objections of the Contractor, which objections shall be preserved and not waived by the Contractor's commencement or performance of the Work as directed by the Owner.

D. To request or claim any change in the Work including, but not limited to change in scope, quantities, pricing, or schedules, the Contractor shall submit a letter to the Engineer stating such request or claim. The Engineer shall review and submit a written recommendation to the Owner. The Owner shall have the right to approve or disapprove any request or claim for change as it deems necessary and in its best interests consistent with the other Contract requirements. Whether requested by the Contractor, claimed by the Contractor, or contemplated by the Owner, no change shall be authorized unless made on an Owner Change Order signed by the Contract Administrator or through a formal written amendment to this Contract.

E. All requests for changes filed by the Contractor shall be in writing delivered to the Owner’s Representative within ten (10) business days of when the event that prompted the claim was discovered or should have been discovered. The Contractor’s failure to timely submit a written claim will constitute a waiver of the right to pursue a claim. Upon receipt of the Contractor's claim notification, Owner’s Representative will provide written direction as to the procedures that will be used to address the request. The Contractor's request shall be sufficiently detailed including itemized costs, condition and work descriptions and other information necessary to evaluate the merits of the claim. A cost breakdown showing all labor, material and equipment shall be provided. The Owner’s Representative may reject requests providing insufficient supporting information. Any change in the Contract resulting from the request will be incorporated into the Contract via a Change Order or Purchase Order. Where the Engineer and the Contractor are unable to reach a mutually acceptable resolution of request, the Owner's determination will be final.

F. Where necessary, the Owner will determine the value of work covered by a change order using one of the following methods:

1. Where the work is covered by established unit prices contained in the contract, the unit price, if the Owner agrees that this is a fair and reasonable price; otherwise, a negotiated price will be applied to the quantity of work at the discretion of the Owner,

2. By mutual acceptance of lump sum price,

3. By actual cost and a mutually acceptable fixed amount for overhead and profit, or

4. Where Bid Price was based on estimated quantities, prior to making final payment, the Owner will determine actual quantities using sampling, surveying and other industry recognized means and prepare a Change Order adjusting the price to reflect actual volumes.

G. The Contractor shall immediately notify the Owner's Representative in writing of any unauthorized change in the scope of the Work or significant change in the quantities of the Work that may increase the Contract Price, require an extension of Work schedule, or negatively impact permitting or other regulatory requirements.

H. The Contractor shall submit requests or claims for a Work schedule adjustment in writing and delivered to the Engineer within five (5) business days following the discovery of the event that prompted the claim or when the event should have been discovered. Where accepted by the Owner, changes to the Approved Schedule will only adjust for critical path impacts. Failure to include the necessary critical path analysis with request shall be grounds for rejecting the claim. The path of critical events mentioned herein means the series of interdependent Work events that must be sequentially performed and that require a longer total time to perform than any other such series. Upon receipt of the Contractor's request for a change in the Work schedule, the Owner's Representative will provide any additional directions in writing detailing the procedures that will be used to resolve the request, including provision of time impact or manpower and equipment loading schedules. Where the Owner and the Contractor are unable to reach a mutually acceptable resolution of request, the Owner will make a commercially reasonable determination, made in accordance with the Owner's established policies and procedures, which shall be final.

I. All Work defined on Field Orders, Work Change Directives and Change Orders shall be subject to the conditions of the Contract, unless specifically noted on the Field Order Form, Work Change Directive Form, or Change Order.

3.14.3 Delay

A. Damage, loss, expense or delay incurred or experienced by the Contractor in the prosecution of the Work by reason of unforeseen circumstances, unanticipated difficulties and obstructions, bad weather, or other mischances that are generally

considered to be a part of the usual hazards associated with Work, shall be borne entirely by the Contractor and shall not be the subject of any claim for additional compensation or change in Approved Schedule.

B. The Contractor agrees that its sole remedy for any claims, damages or losses related to any delay, disruption or hindrance alleged to be caused by the Owner or any of the Owner's agents or other contractors, shall be an extension of the Contract completion date. As such, the Contractor shall not recover any cost associated with extended home/field office overhead, idle labor/equipment/materials, subcontractors' claims or any other miscellaneous costs.

C. Any demand for equitable time adjustment must be served in writing to the Owner within five (5) calendar days of the event giving rise to any delay, disruption or hindrance. Any request for an equitable time adjustment shall be accompanied by a logical time impact analysis, demonstrating the nature and magnitude of the event to the critical path. Any request that is not clearly shown to be an impact to the project's critical path will be denied.

D. Failure to strictly comply with these requirements shall be deemed a waiver of any right to seek equitable adjustment.

3.14.4 Notification of Surety

A. The Contractor shall notify its surety of any changes affecting the general scope of the Work or altering the Contract Price.

3.14.5 Contingency Work

A. The Owner will issue a written Change Order to incorporate cost or schedule changes into the Contract. Issuance of a Change Order is solely at the discretion of the Owner. The Change Order shall be used for increases or decreases in the Contract Price, within the contingency amount set forth in the Contract Price, or to make changes in schedule for performance of the Work.

B. The Contractor should not expect that any Change Orders for contingency work will be issued. Owner shall have no obligation to pay for contingency work unless the same is performed pursuant to a written Change Order form signed before the contingency work is commenced.

C. The Contractor and the Engineer shall mutually agree to the pricing of a Change Order for contingency work. Any negotiated increase or decrease in the Contract Price shall be based on the Contractor's costs for labor, materials and supplies directly applicable to the increase or decrease plus ten percent (10%) thereof for Contractor's supervision, overhead, bonds and profit. For any negotiated increase or decrease, the Contractor will provide a complete detailed breakdown for all labor, material, and equipment, etc.

associated with the change. A lump sum figure submitted with no breakdown will be returned to the Contractor without review.

D. Cost Reimbursable (Time and Materials) Method:

1. The Owner may, at its sole discretion, implement cost reimbursable procedures in order to limit the costs for performance of contingency work. Also, whenever the Contractor and the Owner are unable to agree on costs for an increase in the Work, the Owner or Engineer shall order the Contractor to proceed with the Work on a cost reimbursable (time and material) basis. The Owner will pay the Contractor for the contingency work in the manner hereinafter described, and the compensation thus provided shall constitute full payment for said work. The Owner shall issue the Change Order for the Contractor to perform the specific contingency work with payment determined as follows:

   a. For materials purchased by the Contractor and used in the work, the Contractor shall be paid the actual cost of such materials, including sales taxes if required, and freight and delivery charges as shown by original receipted bills. A mark-up amount equal to ten percent (10%) of the sum thereof shall be added to this cost. The Owner reserves the right to select and approve, or to reject the materials to be used and the sources of supply of any materials furnished by the Contractor.

   b. The Contractor will be paid the cost of wages for all labor that is engaged in the Work, plus the actual cost chargeable to the Work for workers' compensation insurance, social security taxes, unemployment compensation insurance and such additional amounts as are paid by the Contractor. A total mark-up shall be added equal to ten percent (10%) of wages and other cost listed above. In evidence of the costs of labor the Contractor shall provide a certified statement of wages actually paid, together with copies of supporting payrolls. Wage rates used in determining the amount of the payment will be the actual wage rates paid by the Contractor for Work under this Contract, except that no rate used shall exceed the rate of comparable labor currently employed on the project.

   c. Payment for the services of foremen in direct charge of the specific operation will be made. Payment for the service of superintendents, timekeepers or other overhead personnel will not be made nor will payment for the services of watchmen be made unless required specifically by the contingency Work. The actual function performed by an employee rather than its payroll title will be the criterion used in determining the eligibility of an employee's services for payment under this provision.

   d. The types and amounts of equipment and machinery used by the Contractor in carrying out its work under the contingency shall be made in keeping with normal practice for work of similar nature. Owner may, at its discretion, limit by specific instruction the types and amounts of equipment and machinery to be used. For all equipment and machinery used in the contingency work, the Owner will pay

eighty percent (80%) of the rental value as set forth in the Blue Book value or actual cost, whichever is less, to which no mark-up percentages will be added.

e. In computing the hourly rental of such equipment, less than thirty (30) minutes shall be considered 1/2 hour except when the minimum rental time to be paid is one hour. Rental time will not be allowed while equipment is inoperative due to breakdowns. The rental time of equipment to be paid for shall be the time the equipment is in operation on the contingency work being performed. The Contractor shall be reimbursed for the time required to move the equipment to the Work, and return it to its original location, only if the Contractor is charged this cost by the renting agency. Excess rental time of equipment due to inefficient work practices will not be reimbursed.

f. No payment will be allowed for the use of small tools and minor items of equipment, which, as used herein, are defined as individual tools or pieces of equipment having a replacement value of $500.00 or less.

g. The Contractor and the Engineer shall compare records of the Work performed on a Cost Reimbursable basis at the end of each day. These records shall be prepared by the Contractor and shall be signed by both the Owner and the Contractor's Representative. A copy of these records shall be submitted to the Owner with the invoice for the work.

h. Payment for cost reimbursable contingency work will be included in monthly progress payments.

i. The Contractor's Subcontractors will be allowed a ten percent (10%) mark-up on Work performed by their own forces. The Contractor will be allowed a five percent (5%) mark-up on the Subcontractor's costs (i.e. labor, materials and equipment) only, no mark-up on the Subcontractor's profit.

3.14.6 Suspension of Work

A. The Owner may suspend the performance of the Work rendered by providing the Contractor with five (5) business days written notice of such suspension. Schedules and compensation for performance of the Work shall be amended by mutual agreement to reflect such suspension. In the event of suspension of Work, the Contractor shall resume the full performance of the Work when the Owner gives written direction to do so. Suspension of Work caused by the Contractor's sole negligence or failure to perform shall not affect the Contractor's compensation as outlined in the Contract Documents.

3.14.7 Unauthorized Work

A. The Owner will consider any Work done without lines and grades given, Work done beyond the lines and grades shown on the Contract or as given, or any extra Work done without written authority, as unauthorized Work and will not pay the Contractor for such

Work. If so ordered by the Contract Administrator, the Contractor shall remove such Work and properly replace it at the Contractor's own expense.

3.14.8 Payment of Overtime

A. Any Overtime required for the Contractor to complete the Work within the Contract Time shall be at the sole cost and expense of the Contractor.

B. If the Owner requires the Contractor to perform Overtime Work in order to complete the Work prior to the Contract Time, the Contractor shall bill the Owner for the Overtime such that only the actual costs incurred by the Contractor relating to the payment of Overtime premiums, in accordance with its labor policies and applicable laws. Such actual costs include Overtime wage premium, and additional taxes and insurance directly associated with the Overtime wage premium. The Contractor agrees that it will not charge for personnel paid a salary, or other form of compensation such that the Contractor incurs no direct costs as a result of the Overtime. The Contractor shall total the direct Overtime charges, and add the agreed upon overhead rate, but in no case, shall such overhead rate exceed ten percent (10%) of the total overtime costs.

C. Overtime may only be charged to the Owner if the Contractor was directed in writing by the Contract Administrator to incur the Overtime. Such authorization for Overtime shall be accompanied by a Change Order.

3.14.9 Scheduling of Overtime (Contractor Initiated Overtime)

A. Whenever the Contractor schedules Work beyond ten (10) hours per day, beyond fifty (50) hours per week, or on Saturdays, Sundays, or Owner Holidays, then the Contractor shall arrange, in advance, for the Engineer to inspect the Work performed during Overtime. The Contractor shall not perform Overtime Work or after-hours Work without an Owner's Representative at the Work Location or available to perform the inspections, as directed by the Contract Administrator. Except where the Owner has requested the Contractor schedule Overtime to perform additional Work, the Contractor shall reimburse the Owner for any additional costs associated with the Owner's Representatives' Overtime pay.

SECTION 3.15: LABOR

3.15.1 E-Verify Requirements.

Effective January 1, 2021, public and private employers, contractors, and subcontractors must require registration with, and use of the E-Verify system in order to verify the work authorization status of all newly hired employees. Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

(1) All persons employed by Contractor to perform employment duties within the State of Florida during the term of the Agreement; and

(2) All persons (including subcontractors/subvendors/subconsultants) assigned by Contractor to perform work pursuant to this Contract with the Owner. Contractor acknowledges and agrees that the use of the U.S. Department of Homeland Security's E-Verify System during the term of this Agreement is a condition of the Contract with the Owner.

By entering this Contract with the Owner, Contractor becomes obligated to comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility." This includes, but is not limited to, use of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit to Contractor attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Contractor agrees to maintain a copy of such affidavit for the duration of this Agreement. Failure to comply with this section will result in the termination of this Contract as provided in Section 448.095, Florida Statutes, and Contractor may not be awarded a public contract for at least one (1) year after the date on which the Contract was terminated. Contractor will also be liable for any additional costs to Owner incurred as a result of the termination of this Contract in accordance with this section.

3.15.2 Contractor's Labor Relations

A. The Contractor shall negotiate and resolve any disputes between the Contractor and its employees, or anyone representing its employees. The Contractor shall immediately notify the Owner of any actual or potential labor dispute that may affect the Work and shall inform the Owner of all actions it is taking to resolve the dispute.

3.15.3 Minimum Qualifications of Contractor Personnel

A. All Contractor personnel shall be at a minimum qualified for the tasks they are assigned. All Contractor personnel shall act in a professional manner, with due sensitivity to other persons at the Work Location. If the Owner, at its sole reasonable discretion, determines that a Contractor's person is unqualified, unfit, or otherwise unsuitable for the tasks assigned, the Contractor shall immediately stop the person from performing the tasks, and replace the person with a qualified individual. The Contractor shall pay all costs associated with replacing the unqualified person including, but not limited to, termination, recruiting, training, and certification costs.

B. The Contractor personnel assigned supervisory roles, and those with increased authority shall be held to strict scrutiny of their qualifications and suitability for their positions. In addition to the other provisions of this clause, the Contractor shall provide written documentation as to experience, education, licenses, certifications, professional affiliations, and other qualifications of the individual, within one (1) day of request from the Engineer. Any changes to such personnel after approval shall require the written permission of the Engineer.

3.15.4 Nondiscrimination

A. Contractor represents that it will comply with all applicable provisions regarding equal employment laws, rules, regulations, and requirements.

B. The Contractor represents that it has adopted and will maintain a policy of nondiscrimination against employees or applicants for employment. The Contractor covenants and agrees that no employee or applicant for employment will be discriminated against during the course of employment or in the application process with respect to hiring, tenure, terms, conditions, or privileges of employment, because of race, color, religion, sex, gender, age, disability, national origin, marital status, political affiliation, familial status, pregnancy, gender or sexual orientation, or veteran or service member status, in all areas of employee relations, throughout the Term of this Contract. The Contractor agrees that on written request, it will allow the Owner reasonable access to the Contractor's records of employment, employment advertisement, application forms and other pertinent data and records for the purpose of investigation to ascertain compliance with the nondiscrimination provisions of this Contract; provided however, the Contractor shall not be required to produce, for inspection, records covering periods of time more than one (1) year from the effective date of this Contract.

C. The Contractor shall comply with the following executive orders, acts, and all rules and regulations implementing said orders or acts, which are by this reference incorporated herein as if set out in their entirety:

1. The provisions of Presidential Order 11246, as amended, and the portions of Executive Orders 11701 and 11758 as applicable to Equal Employment Opportunity;

2. The provisions of section 503 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA); and

3. The provisions of the Employment and Training of Veterans Act, 38 U.S.C. 4212 (formerly 2012).

D. Discriminatory Vendor List. Contractor hereby acknowledges its continuous duty to disclose to the Owner if Contractor or any of its affiliates, as defined by Section 287.134(1)(a), Florida Statutes, has been placed on the Discriminatory Vendor List. Pursuant to Section 287.134(2)(a), Florida Statutes: “An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.”

E. The Contractor agrees that if any of the Work of this Contract will be performed by a Subcontractor, then the provisions of this subsection shall be incorporated into and become a part of the subcontract.

3.15.5 Show-Up Pay

A. In the event that inclement weather prevents the Contractor from performing Work, the Contractor may be obligated to pay its crew a show-up pay. The Contractor shall be solely responsible for providing this pay.

SECTION 3.16: RIGHTS, REMEDIES, AND DISPUTES

3.16.1 Intellectual Property

A. The Contractor grants to the Owner an irrevocable, perpetual, royalty free and fully paid-up right to use (and such right includes, without limitation, a right to copy, modify and create derivative works from the subject matter of the grant of the right to sublicense all, or any portion of, the foregoing rights to an affiliate or a third party service provider) the Contractor's intellectual property (including, without limitation, all trade secrets, patents, copyright and know-how) that is contained or embedded in, required for the use of, that was used in the production of or is required for the reproduction, modification, maintenance, servicing, improvement or continued operation of any applicable unit of Work.

B. If the Work contains, has embedded in, requires for the use of any third party intellectual property, or if the third party intellectual property is required for the reproduction, modification, maintenance, servicing, improvement or continued operation of the Work, the Contractor shall secure for the Owner an irrevocable, perpetual, royalty free and fully paid-up right to use all third party intellectual property. The Contractor shall secure such right at its expense and prior to incorporating any third party intellectual property (including, without limitation, all trade secrets, patents, copyright and know-how) into any Work, including, without limitation, all drawings or data provided under the Contract, and such right must include, without limitation, a right to copy, modify and create derivative works from the subject matter of the grant of the right and a right to sublicense all or any portion of the foregoing rights to an affiliate or a third party service provider.

C. Should the Owner, or any third party obtaining such work product through the Owner, use the Work or any part thereof for any purpose other than that which is specified herein, it shall be at the Owner's sole risk.

D. The Contractor will, at its expense, defend all claims, actions or proceedings against the Owner based on any allegation that the Work, or any part of the Work, constitutes an infringement of any patent or any other intellectual property right, and will pay to the Owner all costs, damages, charges, and expenses occasioned to the Owner by reason thereof. The Owner will give the Contractor written notice of any such claim, action or

proceeding and, at the request and expense of the Contractor, the Owner will provide the Contractor with available information, assistance and authority for the defense.

E. If, in any action or proceeding, the Work, or any part thereof, is held to constitute an infringement, the Contractor will forthwith either secure for Owner the right to continue using the Work or will, at the Contractor's expense, replace the infringing items with noninfringing Work or make modifications as necessary so that the Work no longer infringes.

F. The Contractor will obtain and pay for all patent and other intellectual property royalties and license fees required in respect of the Work.

3.16.2 Offsets

A. If the Owner reasonably believes the Contractor is in violation of any requirement of the Contract, the Owner may withhold payments that may be due the Contractor, and may offset existing balances with any Owner incurred costs against funds due the Contractor under this and any other Contractor Contract with the Owner, as a result of the violation, or other damages as allowed by the Contract Documents and applicable law.

3.16.3 Proprietary Information

A. The Contractor shall not copy, reproduce, or disclose to third parties, except in connection with the Work, any information that the Owner furnishes to the Contractor. The Contractor shall insert in any subcontract a restriction on the use of all information furnished by the Owner. The Contractor shall not use this information on another project. All information furnished by the Owner will be returned to the Owner upon completion of the Work. The Contractor may retain a copy of such information solely for its own project records.

3.16.4 Removal of Work

A. The Contractor shall not sell, assign, mortgage, hypothecate or remove Work that has been delivered to or installed at the Work Location without the Owner’s approval.

3.16.5 Right to Audit and Financial Reporting

A. Upon the Owner's reasonable requests, the Contractor agrees to allow the Owner to audit its financial and operating records for the purpose of determining invoice accuracy, or otherwise assessing compliance with the Contract Documents. The Contractor agrees to allow Owner personnel and representatives access to the records at Contractor's office, with three (3) business days written notice, for a reasonable period, not less than five (5) business days, in a workspace suitable for the audit provided by the Contractor. All audit work will be done on the Contractor’s premises, and no Contractor documentation will be removed from the Contractor’s offices. The Contractor agrees to have knowledgeable personnel available to answer questions for the auditors during the time they are at the

Contractor's offices and for a period of two (2) weeks thereafter. The Contractor shall provide to the Owner audited financial statements for the most recent fiscal year upon the Owner's request, not later than five (5) business days after receipt of written request.

3.16.6 Title to Materials Found

A. The Owner shall retain the title to water, mineral matter, timber and any other materials that the Contractor, or its Subcontractors, encounter during the excavation or other operations of the Work. The Contractor shall use or dispose of this material in accordance with the Contract or written instructions from the Engineer. Any materials found in the excavation, or other operations of the Contractor, that are of archaeological or historical value shall be left in place. The Contractor shall immediately notify the Owner of the find and shall take no further action until directed by the Owner.

3.16.7 Owner's Rights for Contractor Breach

A. In the event that Contractor causes delay to Approved Schedule, performs its Work in a manner that fails to meet the Standard of Care, commits a material breach of this Agreement, or otherwise damages the Owner at law or in equity, the Owner is entitled to all remedies and damages available at law, including, but not limited to, liquidated damages, actual damages, consequential damages, attorneys' fees, and costs.

3.16.8 Limited Waiver of Consequential Damages

A. The Parties expressly agree that no Party to this Agreement shall be liable to any other Party or Parties to this Agreement for any special, consequential or exemplary damages of any kind whatsoever, whether arising in contract, warranty, tort (including but not limited to negligence), strict liability, or otherwise, including without limitation losses of use, profits, business reputation and financing, subject to the following exceptions: (i) willful misconduct, recklessness, or fraud by the Contractor or any entity for which it is legally responsible; (ii) the Contractor's third-party indemnity obligations under this Agreement or arising by operation of law, including claims for bodily injury, personal injury, or death; (iii) abandonment; (iv) Contractor's liability for liquidated damages; and (v) liability that is recoverable from Project Specific insurance.

SECTION 3.17: REPRESENTATIONS & WARRANTIES

3.17.1 Contractor's Knowledge of the Work

A. The Contractor represents that the Contract Price and the detailed schedule for the execution of the Work are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Owner. The Owner assumes no responsibility for any understanding or representation made by any of its representatives during or prior to execution of the Contract unless such understandings

or representations are expressly stated in the Contract and the Contract expressly provides that the Owner assumes the responsibility.

3.17.2 Contractor's Plans and Specifications

A. All plans and specifications that the Contractor provides for any building, structure, system or equipment where required by federal, state, local laws and regulation as part of the Work shall bear the seal of a Professional Engineer duly registered in the State of Florida at no cost to the Owner.

3.17.3 Contractor's Warranties

A. The Contractor unconditionally warrants to the Owner for a period of not less than two (2) years (unless otherwise stated in DIVISION 6: TECHNICAL SPECIFICATIONS) from the earlier of Final Acceptance or Substantial Completion and beginning of normal use by the Owner, that all Work furnished under the Contract including, but not limited to, materials, equipment, workmanship, and intellectual property, including derivative works will be:

1. Performed in a safe, professional and workman like manner;

2. Free from Defects in design, material, and workmanship;

3. Fit for the use and purpose specified or referred to in the Contract;

4. Suitable for any other use or purpose as represented in writing by the Contractor;

5. In conformance with the Contract Documents; and

6. Merchantable, new and of first-class quality.

7. Performed in accordance with the Standard of Care as defined herein.

B. The Contractor warrants that the Work shall conform to all applicable standards and regulations promulgated by federal, state, local laws and regulations, standards boards, organizations of the Department of State, and adopted industry association standards. If the Work fails to conform to such laws, rules, standards and regulations, the Owner may return the Work for correction or replacement at the Contractor's expense, or return the Work at the Contractor's expense and cancel the Contract. If the Contractor performs services that fail to conform to such standards and regulations the Contractor shall make the necessary corrections at Contractor's expense. The Owner may correct services to comply with standards and regulations at the Contractor's expense if the Contractor fails to make the appropriate corrections within a reasonable time.

C. If the Work includes items covered under a manufacturer's or Subcontractor's warranty that exceeds the requirements stated herein, the Contractor shall transfer such warranty

to the Owner. Such warranties, do not in any way limit the warranty provided by the Contractor to the Owner.

D. If, within the warranty period, the Owner determines that any of the workmanship or supplies are defective or exhibit signs of deterioration, in the opinion of the Owner, the Contractor, at its own expense, shall repair, adjust, or replace the defective Work to the complete satisfaction of the Owner. The Contractor shall pay all costs of removal, transportation, reinstallation, repair, and all other associated costs incurred in connection with correcting such Defects in the Work. The Contractor shall correct any Defects only at times designated by the Owner. The Contractor shall extend the warranty period an additional twelve (12) months (thirty-six (36) months total) for any portion of the Work that has undergone warranty repair or replacement.

E. When operational conditions warrant, the Owner may repair or replace any defective equipment at the Contractor's expense. The Owner may repair or replace any defective Work at the Contractor's expense when the Contractor fails to correct the Defect within a reasonable time of receiving written notification of the Defect by the Owner, when the Contractor is unable to respond in an emergency situation, or when necessary to prevent the Owner from substantial financial loss. Where the Owner makes repairs or replaces defective Work, the Owner will issue the Contractor a written accounting and invoice of all such work to correct Defects. The Contractor's liability to the Owner for the costs of removal, transportation, reinstallation, and all other associated costs incurred in connection with correcting Defects in the Work will be limited to 1.5 times the original installed purchase price of the specific Work.

F. The Contractor's warranty excludes remedy for damage or Defect caused by abuse, improper or insufficient maintenance, improper operation, or wear and tear under normal usage.

3.17.4 Competent Performance of the Work

A. The Contractor represents that it will conduct the Work in a manner and with sufficient labor, materials and equipment necessary to affect a diligent pursuance of the Work through Final Completion. If, in the sole opinion of the Owner, the Contractor fails to perform the Work as represented, the Owner may, at its sole discretion, take charge of the Work and furnish and provide the labor, materials, and equipment necessary to complete the Work as planned within the required time if the Owner deems the organization of the Contractor or its management, or the manner in which Contractor is performing the Work, to be manifestly incompetent or inadequate to complete the Work as specified. The Contractor shall pay the Owner for the cost of all such Work completed by the Owner.

3.17.5 Encroachment on Outside Property

A. The Contractor warrants that it shall not encroach on any rights or property of the public or adjoining property owners and shall hold the Owner harmless because of any

encroachments that may result from the Contractor's lack of proper layout. If such an encroachment occurs, the Contractor agrees to remove any Work or portion thereof, that encroaches on the property of others, or that is built beyond legal building or setback limits, and shall rebuild the affected Work, or portion thereof, at the proper location, all without extra cost to the Owner.

3.17.6 Free and Clear Title

A. The Contractor warrants that it has title to all equipment and materials furnished under the Contract where title will pass to the Owner, and that the equipment and materials passed to the Owner are free and clear of all liens, claims, security interests and encumbrances.

3.17.7 Performance of the Work

A. The Contractor represents and warrants that it has the full corporate right, power and authority to enter into the Contract and to perform the acts required of it hereunder, and that the performance of its obligations and duties hereunder does not and will not violate any Contract to which the Contractor is a party or by which it is otherwise bound. The Contractor warrants that all items provided under the Contract shall be free from Defect and services shall be performed in a professional manner and with professional diligence and skill, consistent with the prevailing standards of the industry. The Contractor warrants that the Work will meet the functional and performance requirements defined in the Contract.

3.17.8 Safety Representation

A. The Contractor represents and warrants to the Owner that it has the capacity to train and supervise its employees, Subcontractors and Suppliers to ensure the Work complies with all safety requirements of the Contract Documents. The Contractor shall be responsible for executing the necessary safety training and supervision of its employees and Subcontractors, and acknowledges that the Owner is not responsible for training or supervising the Contractor's employees, except when noted for the purpose of enforcing compliance with these safety requirements.

SECTION 3.18: TERM & TERMINATION

3.18.1 Term of Contract (Through Work Completion)

A. The Contract shall be in force through completion of all Work, Final Acceptance and final payment, including resolution of all disputes, claims, or suits, if any. Certain provisions of this Contract may extend past termination including Warranty provisions.

3.18.2 Termination for Convenience

A. The Owner shall have the absolute right to terminate in whole or part the Contract, with or without cause, at any time after Award upon written notification of such termination.

B. In the event of termination for convenience, the Owner will pay the Contractor for all disbursements and expenses that the Contractor has incurred, or those for which it becomes obligated prior to receiving the Owner's notice of termination. Owner will also pay the Contractor costs incurred less the reasonable resale value, of materials or equipment that the Contractor has already ordered, obtained or fabricated in connection with the Contract.

C. Upon receipt of such notice of termination, the Contractor shall stop the performance of the Work hereunder except as may be necessary to carry out such termination and take any other action toward termination of the Work that the Owner may reasonably request, including all reasonable efforts to provide for a prompt and efficient transition as directed by the Owner.

D. The Owner will have no liability to the Contractor for any cause whatsoever arising out of, or in connection with, termination (whether for convenience or default) including, but not limited to, lost profits, lost opportunities, or resulting change in business condition, except as expressly stated within these Contract Documents.

3.18.3 Termination for Default

A. Owner may give the Contractor written notice to discontinue all Work under the Contract in the event that:

1. The Contractor assigns or subcontracts the Work without prior written permission;

2. Any petition is filed or any proceeding is commenced by or against the Contractor for relief under any bankruptcy or insolvency laws;

3. A receiver is appointed for the Contractor's properties or the Contractor commits any act of insolvency (however evidenced);

4. The Contractor makes an assignment for the benefit of creditors;

5. The Contractor suspends the operation of a substantial portion of its business;

6. The Contractor suspends the whole or any part of the Work to the extent that it impacts the Contractor's ability to meet the Work schedule, or the Contractor abandons the whole or any part of the Work;

7. The Contractor, at any time, violates any of the conditions or provisions of the Contract Documents, or the Contractor fails to perform as specified in the Contract Documents, or the Contractor is not complying with the Contract Documents;

8. The Contractor attempts to willfully impose upon the Owner items or workmanship that are, in the Owner's sole opinion, defective or of unacceptable quality;

9. The Contractor breaches any of the representations or warranties contained herein;

10. The Contractor is determined, in the Owner's sole opinion, to have misrepresented the utilization of funds or misappropriated property belonging to the Owner; or

11. There is any material change in the financial or business condition of the Contractor.

B. If, within twenty-four (24) hours after service of such notice upon the Contractor, an arrangement satisfactory to the Owner has not been made by the Contractor for continuance of the Work, the Owner may terminate the Contract.

C. Once a Contractor is declared in default, the surety shall assume the Contractor's place in all respects and shall be paid by the Owner all monies, if any, due the Contractor at the time of such notice to discontinue, or any monies thereafter that may become due the Contractor in accordance with the terms of the Contract.

D. If the Contractor fails to make arrangements satisfactory to the Owner within ten (10) days after service to the Contractor of a notice to discontinue Work, and in the case where a Payment Bond and a Performance Bond are in effect, the surety has not exercised its option, then without further notice to the Contractor or the surety, the Owner may terminate the Contract and shall have the power to complete the Work herein described as it may determine. In such a case, the Owner shall have the right to take possession of and use any of the materials, plant, tools, equipment, supplies and property of any kind provided by the Contractor for the purpose of this Work.

E. The Owner will charge the expense of completing the Work to the Contractor and will deduct such expenses from monies due, or which at any time thereafter may become due, to the Contractor. If such expenses are more than the sum that would otherwise have been payable under the Contract, then the Contractor shall pay the amount of such excess to the Owner upon notice of the expenses from the Owner. The Owner shall not be required to obtain the lowest price for completing the Work under the Contract, but may make such expenditures that, in its sole judgment, shall best accomplish such completion. The Owner will, however, make reasonable efforts to mitigate the excess costs of completing the Work.

F. The Contract Documents shall in no way limit the Owner's right to all remedies for nonperformance provided under law or in equity, except as specifically set forth herein. In the event of termination for nonperformance, the Contractor shall immediately surrender all Work records to the Owner. In such a case, the Owner may offset any money owed to the Contractor against any liabilities resulting from the Contractor's nonperformance.

G. The Owner has no responsibility whatsoever to issue notices of any kind, including but not limited to deficient performance letters and scorecards, to the Contractor regarding its performance prior to default by Contractor for performance related issues.

H. The Owner shall have no liability to the Contractor for termination costs arising out of the Contract, or any of the Contractor's subcontracts, as a result of termination for default.

SECTION 3.19: MISCELLANEOUS TERMS & CONDITIONS

3.19.1 Independent Contractor

A. This Agreement does not create an employer/employee relationship between the parties. The parties agree and intend that the Contractor is a separate and independent enterprise from the Owner. This Agreement shall not be construed as creating any joint employment relationship between the Contractor and the Owner and the Owner will not be liable for any obligation incurred by the Contractor, including but not limited to unpaid minimum wages and/or overtime, or any other obligation of the Contractor, whether arising under state or federal law, or contract, to Contractor's employees, subcontractors, or subvendors.

B. Contractor undertakes performance of the Services as an independent contractor and shall be wholly responsible for the methods of performance.

C. The Contractor shall not pledge the Owner's credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness and shall have no right to speak for or bind the Owner in any manner.

D. Contractor further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Agreement.

3.19.2 Authority to Practice, Compliance with Laws, Public Records, and Trade Secrets

A. The Contractor hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct its business, and that it will at all times conduct its business activities in a reputable manner.

B. In performing the Services, the Contractor shall comply with all applicable regulatory requirements, including federal, state, special district, and local laws, rules, regulations, orders, codes, criteria, and standards.

C. Public Records. The parties acknowledge and agree that the Owner is a public agency subject to Chapter 119, Florida Statutes. To the extent the Contractor is a company acting on behalf of the Owner pursuant to Section 119.0701, Florida Statutes, the Contractor must comply with all public records laws in accordance with Chapter 119, Florida Statutes. In accordance with Chapter 119, Florida Statutes, the Contractor agrees to:

(1) Keep and maintain all records that ordinarily and necessarily would be required by the Owner to perform the services under this Agreement.

(2) Upon request from the Owner, provide the Owner with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the costs provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

(3) Ensure that public records that are exempt, or confidential and exempt, from public records disclosures are not disclosed as except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Contractor does not transfer the records to the Owner.

(4) Upon completion of the services under this Agreement, at no cost, either transfer to the Owner all public records in the Contractor's possession or keep and maintain public records required by the Owner to perform the services. If the Contractor transfers all public records to the Owner upon completion of the services, the Contractor must destroy any duplicate public records that are exempt, or confidential and exempt, from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the services under this Agreement, the Contractor must meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Owner, upon request from the Owner, in a format that is compatible with the information technology systems of the Owner.

(5) IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE OWNER'S CUSTODIAN OF PUBLIC RECORDS AT: _____

If the CONSULTANT does not comply with the provisions of this section, the City will enforce the Agreement provisions in accordance herewith and may unilaterally cancel this Agreement in accordance with Florida law.

D. Trade Secrets and Proprietary Confidential Business Information. Documents submitted by Contractor which it contends constitute trade secrets as defined in Sections 812.081 and 688.002, Florida Statutes, or confidential and propriety business information when held by the Owner as a utility owner, consistent with Section 119.0713(5), Florida Statutes, and which are clearly marked or stamped as confidential by the Contractor at the time of submission to the Owner, will not be subject to public access. However, should a requestor of public records challenge Contractor's claim of trade secret or confidential and proprietary business information, within five (5) calendar days of such challenge, Contractor must provide a separate written affidavit that includes an indemnification and release guarantee, as approved by the Owner's Attorney or designee, to the Owner to support its claim that the alleged trade secrets or proprietary and confidential business information actually constitutes same as defined by law. Contractor must demonstrate the need for confidentiality of the documentation by showing a business advantage or opportunity to obtain an advantage

would be gained if the documentation were released. Otherwise, Contractor is required to timely seek a protective order in the Circuit Court of Hardee County to prevent the Owner's release of the requested records.

3.19.3 Public Entity Crimes, Section 287.133, Fla. Stat.; Scrutinized Companies List/Countries of Concern/Interests of Foreign Countries, Sections 287.135, 215.473, and 287.138, Fla. Stat.; and Anti-Trust Vendor Violator, Section 287.137, Fla. Stat.

A. Pursuant to Section 287.133(2)(a), Florida Statutes, Contractor hereby certifies that neither it nor its affiliate(s) have been placed on the convicted vendor list following a conviction for a public entity crime. If placed on that list, Contractor must notify the Owner immediately and may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

B. Contractor hereby certifies that it: (a) has not been placed on the Scrutinized Companies that Boycott Israel List, nor is engaged in a boycott of Israel; (b) has not been placed on the Scrutinized Companies with Activities in Sudan List nor the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and (c) has not been engaged in business operations in Cuba or Syria. If Owner determines that Contractor has falsely certified facts under this Paragraph or if Contractor is found to have been placed on the Scrutinized Companies Lists or is engaged in a boycott of Israel after the execution of this Agreement, the Owner will have all rights and remedies to terminate this Contract consistent with Section 287.135, Florida Statutes.

C. The Contractor has a continuous duty to disclose to the Owner if the Contractor or any of its affiliates, as defined by section 287.137(1), Fla. Stat., are placed on the Antitrust Violator Vendor List. Pursuant to section 287.137, Fla. Stat., "A person or an affiliate who has been placed on the antitrust violator vendor list following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply for any new contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply for a new contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on new leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a new contract with a public entity; and may not transact new business with a public entity."

3.19.4 Ambiguous Contract Provisions

A. The parties agree that this Contract has been the subject of meaningful analysis and/or discussions of the specifications, terms and conditions contained in this Contract.

Therefore, doubtful or ambiguous provisions, if any, contained in this Contract will not be construed against the party who physically prepared this Contract. The rule commonly known as "Fortius Contra Proferentem" will not be applied to this Contract or any interpretation thereof.

3.19.5 Amendments

A. This Contract may not be altered or amended except in writing, signed by the Owner and the Contractor, or each of their duly authorized representatives.

3.19.6 Choice of Law, Venue, and Waiver of Jury Trial

A. This Contract, and the rights and duties of the parties arising from or relating to this Contract or its subject matter, shall be construed in accordance with the laws of the State of Florida and the ordinances of the City of Wauchula without regard to its conflicts of provisions. Each of the parties irrevocably submits to the exclusive jurisdiction of the courts of Hardee County, Florida, and further agree that the venue for any legal action brought by or filed against the Owner relating to any matter arising under this Contract shall be exclusively in that state or federal court, in Hardee County, Florida that has jurisdiction over such legal actions.

B. WAIVER OF JURY TRIAL. BY ENTERING INTO THIS AGREEMENT, THE CONTRACTOR AND THE OWNER HEREBY EXPRESSLY WAIVE ANY RIGHTS THEY MAY HAVE TO A TRIAL BY JURY IN ANY LITIGATION ARISING OUT OF OR RELATED TO THIS AGREEMENT.

3.19.7 Conflict of Interest

A. This Contract is subject to Chapter 112, Florida Statutes, and Contractor shall disclose the name of any officer, director, employee, or other agent who is also an employee of the Owner or the City of Wauchula. The Contractor shall also disclose the name of any Owner or City of Wauchula employee who owns, directly or indirectly, more than a 5% interest in Contractor's, or its affiliates, business entity.

3.19.8 Cumulative Remedies

A. Except as otherwise expressly provided in this Contract, all remedies provided for in this Contract shall be cumulative and in addition to and not in lieu of any other remedies available to either party at law, in equity or otherwise.

3.19.9 Entire Agreement

A. This Contract contains all of the understandings and agreements of the parties hereto in respect of the subject matter hereof as of the Effective Date of the Contract. Any and all prior understandings and agreements, expressed or implied, between the parties hereto in respect of the subject matter hereof shall be superseded hereby. Parol or extrinsic evidence will not be used to vary or contradict the express terms of this Contract.

B. The Contract Documents are complementary; what is called for by one is binding as if called for by all. The Contractor shall, upon discovery, inform the Owner in writing of any conflict, error or discrepancy in the Contract Documents. Should the Contractor proceed with the Work prior to written resolution of the error or conflict by the Owner, all Work done is at the sole risk of the Contractor.

3.19.10 Expanded Definitions

A. Unless otherwise specified, words importing the singular include the plural and vice versa and words importing gender include all genders. The term "including" means "including without limitation", and the terms "include", "includes" and "included" have similar meanings. Any reference in this Contract to any other agreement is deemed to include a reference to that other agreement, as amended, supplemented or restated from time to time. Any reference in the Contract to "all applicable laws, rules and regulations" means all federal, state and local laws, rules, regulations, ordinances, statutes, codes and practices.

3.19.11 Force Majeure

A. No party shall be liable for any default or delay in the performance of its obligations under this Contract due to an act of God or other event to the extent that: (a) the non-performing party is without fault in causing such default or delay; (b) such default or delay could not have been prevented by reasonable precautions; and (c) such default or delay could not have been reasonably circumvented by the non-performing party through the use of alternate sources, work-around plans or other means. Such causes include, but are not limited to: act of civil or military authority (including but not limited to courts or administrative agencies); acts of God; war; terrorist attacks; riot; insurrection; inability of the Owner to secure approval, validation or sale of bonds; inability of the Owner or the Contractor to obtain any required permits, licenses or zoning; blockades; embargoes; sabotage; epidemics; fires; hurricanes, tornados, floods; or strikes.

B. In the event of any delay resulting from such causes, the time for performance of each of the parties hereunder (including the payment of monies if such event actually prevents payment) shall be extended for a period of time reasonably necessary to overcome the effect of such delay, except as provided for elsewhere in the Contract Documents.

C. In the event of any delay or nonperformance resulting from such causes, the party affected shall promptly notify the other in writing of the nature, cause, date of commencement and the anticipated impact of such delay or nonperformance. Such

written notice, including Change Orders, shall indicate the extent, if any, to which it is anticipated that any delivery or completion dates will be thereby affected.

3.19.12 Headings

A. The division of this Contract into sections, the insertion of headings and/or index numbers and the provision of a table of contents are for convenience of reference only and are not to affect the construction or interpretation of this Agreement.

3.19.13 Language and Measurements

A. All communication between the Contractor and the Owner, including all documents, notes on drawings, and submissions required under the Contract, will be in the English language. Unless otherwise specified in the Contract, the US System of Measurements shall be used for quantity measurement. All instrumentation and equipment will be calibrated in US System of Measures.

3.19.14 Nonwaiver

A. Failure by either party to insist upon strict performance of any of the provisions of the Contract will not release either party from any of its obligations under the Contract.

3.19.15 Publicity and Advertising

A. The Contractor shall not take any photographs for the purpose of making any announcements or release any information concerning the Contract or the Work to any member of the public, press or official body unless prior written consent is obtained from the Owner. The Owner is governed by the Florida Public Records Laws therefore all Contract Documents are available for public inspection, subject to certain statutory exemptions as set forth in Chapter 119, *Florida Statutes*. In addition, the Owner is governed by Florida Sunshine Laws and as such, certain meetings are required to be open to the public.

3.19.16 References

A Unless otherwise specified, each reference to a statute, ordinance, law, policy, procedure, process, document, drawing, or other informational material is deemed to be a reference to that item, as amended or supplemented from time to time. All referenced items shall have the enforcement ability as if they are fully incorporated herein.

3.19.17 Relationship of the Parties

A. The Contractor agrees that it shall perform the Work as an independent contractor and that it does not (a) have the power or authority to bind the Owner or to assume or create any obligation or responsibility, express or implied, on the Owner's part or in the Owner's name, except as may be authorized by the Owner under a separate written document, or

(b) represent to any person or entity that it has such power or authority except as may be authorized by the Owner under a separate written document.

3.19.18 Severability

A. In the event that any provision of this Contract is found to be unenforceable under applicable law, the parties agree to replace such provision with a substitute provision that most nearly reflects the original intentions of the parties and is enforceable under applicable law, and the remainder of this Contract shall continue in full force and effect.

3.19.19 Subcontracting or Assigning of Contract

A. Each party agrees that it shall not subcontract, assign, delegate, or otherwise dispose of the Contract, the duties to be performed under the Contract, or the monies to become due under the Contract without the other party's prior written consent.

B. The assignment of the Contract will not relieve either of the parties of any of its obligations until such obligations have been assumed in writing by the assignee. If the Contract is assigned by either of the parties, it will be binding upon and will inure to the benefit of the permitted assignee. The Contractor shall be liable for all acts and omissions of its assignee or its Subcontractor.

C. The Contractor agrees to retain the services of such subcontractors and subconsultants as reasonably required to provide the Work required by this Agreement. All subcontractors and subconsultants will be under contract to the Contractor. The Contractor shall supervise and coordinate all subcontractors and subconsultants and shall be responsible to the Commission for their work.

D. Any subcontractor or subconsultant retained by the Contractor shall be licensed in the State of Florida in the field applicable to such subcontractor or subconsultant’s scope of work.

E. The Contractor’s choice of subcontractors must be approved by the Owner. While the Owner shall have the right to approve or reject each sub-consultant, such approval shall not be unreasonably withheld.

F. In no event will the Contractor subcontract portions of the Work under this Agreement without the approval of the Owner. The Owner’s approval of any subcontractor or subconsultant will not relieve the Contractor of its responsibility for the acts and omissions of such subcontractors or subconsultants. Any subcontract shall include, among other appropriate provisions, those provisions of this Agreement that by its terms are required to be provided in the subcontract agreement.

G. The Owner may reasonably request that the Contractor contract with additional subcontractors or subconsultants in order to adequately perform the Work on the Project.

3.19.20 Survival

A. The obligations of the Owner and the Contractor under this Contract that are not, by the express terms of this Contract, fully to be performed during the Term, shall survive the termination of this Contract for any reason.

3.19.21 Third Party Agreements

A. Unless otherwise agreed in writing by the Owner, the Owner shall have no obligation to enter into any third party agreements under this Contract. Such third party agreements shall include, but not be limited to: joint check agreements, and revocable or irrevocable letters of direction with sureties. In the event the Owner agrees to execute any such agreement(s), then such agreement(s) shall incorporate additional language as required by the Owner.

3.19.22 Time and Date

A. Unless otherwise specified, references to time of day or date mean the local time or date in Wauchula, Florida. If under this Contract any payment or calculation is to be made, or any other action is to be taken, on or as of a day that is not a regular business day for the Owner, that payment or calculation is to be made, and that other action is to be taken, as applicable, on or as of the next day that is a regular business day. Where reference is made to day or days, it means calendar days. Where reference is made to workday, workdays, business day, or business days, it means regular working days for the Owner.

3.19.23 Waiver of Claims

A. A delay or omission by the Owner hereto to exercise any right or power under this Contract shall not be construed to be a waiver thereof. A waiver by the Owner under this Contract shall not be effective unless it is in writing and signed by the party granting the waiver. A waiver by a party of a right under, or breach of, this Contract shall not be construed to operate as a waiver of any other or successive rights under, or breaches of, this Contract.

B. The Contractor's obligations to perform and complete the Work in accordance with the Contract shall be absolute. None of the following will constitute a waiver of any of the Owner's rights under the Contract: approval or payment of any progress payments or any other payments, including final payment; issuance of the Certificate of Substantial Completion or Certificate of Contract Completion; any use or occupancy of the Work by the Owner; nor any correction of faulty or defective work by the Owner.

3.19.24 Attorneys' Fees

A. If any action or other proceeding is brought for the enforcement of this Agreement or due to any uncured dispute, breach, default, or misrepresentation in connection with any of the provisions of this Agreement, or to interpret this Agreement, the prevailing Party shall be entitled to recover from the other Party reasonable attorney's fees and other costs incurred in the prosecution of the action or proceeding

[END OF SECTION]

DIVISION 4:
SUPPLEMENTAL CONDITIONS

There are no Supplemental Conditions included in the Bid Documents for this Project.

DIVISION 5:
FORMS

SECTION 5.1: FORMS TO SUBMIT WITH BID

The following forms must be completed and included in the Bidder's response to this Solicitation. This list represents the forms only and does not include all information and items necessary to be responsive to the Bid Solicitation.

5.1.1 Bid Form

5.1.2 Bid Security

5.1.3 Bidder's Qualifications

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion

5.1.5 Drug-Free Workplace Certificate

5.1.6 Non-Collusion Affidavit

5.1.7 Public Entity Crimes Statement

5.1.8 Tabulation of Subcontractors and Suppliers

5.1.9 Exhibit B – Wauchula AMI RFP Technical Response Template

5.1.10 Exhibit C – Wauchula AMI RFP Pricing Worksheet

SECTION 5.2: FORMS FOR CONVENIENCE

The following forms are included for convenience in the Bid Documents. The Owner may require additional forms during the performance of the Work:

5.2.1 Certificate of Final Completion Form

5.2.2 Certification of Substantial Completion Form

5.2.3 Change Order Form

5.2.4 Contractor's Application for Payment Form

5.2.5 Field Order Form

5.2.6 Notice of Award Form

5.2.7 Notice to Proceed Form

5.2.8 Payment Bond Form

5.2.9 Performance Bond Form

5.2.10 Work Change Directive Form

5.1.1 Bid Form

PROJECT: City of Wauchula AMI System Implementation

A. Bid Recipient

1. This Bid is submitted to:

   City of Wauchula
   Attn: City Manager
   126 South 7th Street
   Wauchula, FL 33873

2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Bid Documents to perform all Work as specified or indicated in the Bid Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bid Documents.

B. Bidder's Acknowledgements

1. The Bidder accepts all of the terms and conditions of DIVISION 1: INSTRUCTIONS TO BIDDERS, including without limitation those dealing with the disposition of the Bid Security. The Bid will remain subject to acceptance for 180 days after the Bid Opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

C. Bidder's Representations

1. In submitting this Bid, the Bidder represents that:

   a. The Bidder has received a complete set of Bid Documents and other related data identified in the Bid Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date

   b. The Bidder has examined and carefully studied the Bid Documents, Addenda, and the other related data identified in the Bidding Documents, and provided the information to Subcontractors and Suppliers who have provided quotations to the Bidder for the Work.

c. The Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

d. The Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

e. The Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS, and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS.

f. The Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplemental examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by the Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bid Documents to be employee by the Bidder, and safety precautions and programs incident thereto.

g. The Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bid Documents

h. The Bidder is aware of the general nature of the Work to be performed by the Owner and others at the Site that relates to the Work as indicated in the Bid Documents.

i. The Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bid Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bid Documents.

j. The Bidder has given the Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that the Bidder has discovered in the Bid Documents, and the written resolution thereof by the Engineer is acceptable to the Bidder.

k. The Bid Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

l. Bidder certifies Bidder's authority and qualification to do business in the state where the Project is located.

m. Bidder certifies to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-made. To support the efforts, any non American-made equipment proposed must be accompanied by proof of good-faith efforts to utilize American-made equipment such as written quotes, solicitations, advertisements, etc.

D. Bidder's Certification

1. Bidder certifies that:

a. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

b. The Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

c. The Bidder has not solicited or induced any individual or entity to refrain from bidding; and

d. The Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph:

i. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

ii. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of the Owner, (b) to establish Bid Prices at artificial non-competitive levels, or (c) to deprive the Owner of the benefits of free and open competition;

iii. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Owner, a purpose of which is to establish Bid Prices at artificial, non-competitive levels; and

iv. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

E. Basis of Bid

1. The Bidder has reviewed DIVISION 6: TECHNICAL SPECIFICATIONS; and will complete the Work in accordance with the Contract Documents for the price specified in Exhibit C – Wauchula AMI RFP Pricing Worksheet.

F. Time of Completion

1. The Bidder agrees that the Work will be completed and ready for final payment in accordance with the Contract Documents within **two years** after the issuance of the Notice to Proceed.

G. Attachments to This Bid

1. The following documents are submitted with and made a part of this Bid:

    a. DIVISION 5: FORMS – Bid Form

    d. DIVISION 5: FORMS – Bid Security

    c. DIVISION 5: FORMS – Bidder's Qualifications

    d. DIVISION 5: FORMS – Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years

    e. DIVISION 5: FORMS – Drug-Free Workplace Certificate

    f. DIVISION 5: FORMS – Non-Collusion Affidavit

    g. DIVISION 5: FORMS – Public Entity Crimes Statement

    h. DIVISION 5: FORMS – Tabulation of Subcontractors and Suppliers

    i. Exhibit B – Wauchula AMI RFP Technical Response Template

    j. Exhibit C – Wauchula AMI RFP Pricing Worksheet

H. Defined Terms

1. The terms used in this Bid with initial capital letters have the meanings stated in DIVISION 1: INSTRUCTIONS TO BIDDERS.

I. Bid Submittal

1. This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)

(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____

By: _____ (SEAL)

(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

State Contract License No. _____

A Corporation

Corporation Name: _____

_____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability):_____

By: _____

(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Corporate Seal)

Attest _____

(Signature of Corporate Secretary)

Date of Qualification to do business in Florida is _____/_____/_____.

State Contractor License No. _____.

A Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____(SEAL)

By: _____

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address _____

_____

Phone No. _____ Fax No. _____

E-mail _____

SUBMITTED on _____, 20_____.

5.1.2 Bid Security Form

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID

Bid Due Date:

Project (Brief Description Including Location):

BOND

Bond Number:

Date (Not later than Bid due date):

Penal sum _____ _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER	**SURETY**
_____ (Seal)	_____ (Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature and Title	Signature and Title (Attach Power of Attorney)
Attest: _____	Attest: _____
Signature and Title	Signature and Title

Note: Above addresses are to be used for giving required notice.

A. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to the Owner upon default of the Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.

B. Default of Bidder shall occur upon the failure of the Bidder to deliver within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents.

C. This obligation shall be null and void if:

   i. The Owner accepts the Bidder's Bid and the Bidder delivers within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents, or

   ii. All Bids are rejected by the Owner, or

   iii. The Owner fails to issue a Notice of Award to the Bidder within the time specified in the Bid Documents (or any extension thereof agreed to in writing by the Bidder and, if applicable, consented to by Surety when required by Paragraph E hereof).

D. Payment under this Bond will be due and payable upon default by the Bidder and within 30 calendar days after receipt by the Bidder and the Surety of written notice of default from the Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

E. The Surety waives notice of any and all defenses based on or arising out of any time extension to issue the Notice of Award agreed to in writing by the Owner and the Bidder, provided that the total time for issuing the Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid Due Date without the Surety's written consent.

F. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph D above is received by the Bidder and the Surety and in no case later than one year after the Bid Due Date.

G. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

H. Notices required hereunder shall be in writing and sent to the Bidder and the Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

I. The Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

J. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

K. The term “Bid” as used herein includes a Bid, offer, or proposal as applicable.

5.1.3 Bidder's Qualifications

The Bidder warrants the truth and accuracy of all statements and answers herein contained.
(Include additional sheets if necessary.)

THIS QUESTIONNAIRE MUST BE COMPLETED AND SUBMITTED WITH YOUR BID.

A. COMPANY'S NAME:_____

B. CO. PHYSICAL ADDRESS:_____

C. TELEPHONE NUMBER: (_____)_____ D. FAX: (_____)_____

E. Bidding as an; individual:_____; a partnership:___; a corporation:___; a joint venture:___.

F. If a partnership: list names and addresses of partners; if a corporation: list names of officers, directors, shareholders, and state of incorporation; if joint venture: list names and addresses of venturers and the same if any venturer is a corporation for each such corporation, partnership, or joint venture:

_____

_____

G. Your organization has been in business (under this firm's name) as a _____

_____for how many years? _____

H. Have you ever been awarded additional time to complete work awarded to you during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.

_____

_____

I. Have you ever been assessed liquidated damages under a contract during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.

_____

_____

J. Have you ever failed to complete work awarded to you? If so, state when, where (contact name, address, phone number) and why?

_____

_____

K. Have you ever been debarred or prohibited from bidding on a governmental entity's construction project? If yes, name the entity and describe the circumstances:

L. Will you subcontract any part of this Work? If so, describe which major portion(s):

M. If any, list (with contract amount) MBE/WBE's to be utilized:

N. What equipment do you own to accomplish this Work?

O. What equipment will you purchase/rent for the Work? (specify which)

P. List the following in connection with the Surety which is providing the Bond(s):

Surety's Name: _____

Surety's Address: _____

Name, address and phone number of Surety's resident agent for service of process in Florida:

Phone: (___) _____

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion – Last Three (3) Years

Project	Name and Address of Owner or Engineer	Name and Phone Number of Owner or Engineer Representative	Date of Contract	Amount	Status

5.1.5 Drug-Free Workplace Certificate

I, the undersigned, in accordance with Section 287.087, *Florida Statutes* hereby certify that

_____

(Print or Type Name of Firm)

☐ Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace named above and specifying actions that will be taken against violations of such prohibition.

☐ Informs employees about the dangers of drug abuse in the workplace; the firm's policy of maintaining a drug-free working environment and available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug-use violations.

☐ Gives each employee engaged in providing commodities or contractual services that are under bid or proposal a copy of the statement specified above.

☐ Notifies the employees that as a condition of working on the commodities or contractual services under bid or proposal, the employees will abode by the terms of the statement and will notify the employer of any conviction of or plea of guilty or nolo contendere to any violation of Chamber 1893 or any controlled substance law of the State of Florida or the United States for a violation occurring in the workplace, no later than 5 days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

☐ Imposes a sanction on or requires the satisfactory participation in a drug-abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

☐ Makes a good faith effort to continue to maintain a drug-free workplace through the implementation of the drug-free workplace program.

"As a person authorized to sign this statement, I certify that the business, firm, or corporation named above complies fully with the requirements set forth herein."

_____ _____

Authorized Signature Date Signed

State of: _____

County of: _____

Sworn to and subscribed before me this _____ day of _____, 20 _____.

Personally known _____ or Produced Identification _____

Specify Type of Identification

_____

Signature of Notary

My Commission Expires: _____

5.1.6 Non-Collusion Affidavit of Prime Bidder

State of _____

County of _____

_____, being first duly sworn, deposes and says that:
Name

1. He/She is _____ of _____, the
   Title Company
   Bidder that has submitted the attached bid;

2. He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

3. Such Bid is genuine and is not a collusive or sham Bid;

4. Neither the said Bidder not any of his/her officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or has refrained from bidding in connection with such Contract; nor in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or if any other Bidder; not has fixed any overhead, profit or cost element of the Bid Price, or the Bid Price of any other Bidder; not has secured through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the City of Wauchula, Florida or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____
Name

_____
Title

Subscribed and sworn to before me this _____ day of _____, 20_____

_____
Signature

_____
Title

My commission expires _____

5.1.7 Sworn Statement Pursuant to Section 287.133(3)(A), *Florida Statues*, on Public Entity Crimes

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to the City of Wauchula, Florida by

   _____
   (print individual's name and title)

   for _____
   (print name of entity submitting sworn statement)

   whose business address is _____

   _____

   And (if applicable) its Federal Employer Identification Number (FEIN) is _____.
   (If the entity has no FEIN, include the Social Security of the individual signing this sworn statement: _
   _____.)

2. I understand that a "public entity crime" as defined in Section 287.133 (1)(g), *Florida Statues* means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision of any other state or of the United States and involving anti-trust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

3. I understand that "convicted" or "conviction" as defined in Section 287.133(1)(b), *Florida Statutes*, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or stated trial court of record relating to charges brought by indictment or information after July 1. 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that "affiliate" as defined in Section 287.133(1)(a), *Florida Statutes*, means:

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters in to a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5. I understand that a "person" as defined in Section 287.133 (1)(e), *Florida Statutes*, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (indicate which statement applies).

___ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, *FLORIDA STATUES*, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

_____
(Signature)

Sworn to and subscribed before me this _____ day of _____, 20_____.

Personally known _____

OR Produced Indentification_____ Notary Public-State of _____

_____ My commission expires_____
(Type of Indentification)

_____
(Printed, Typed or Stamped
Commissioned Name of Notary Public)

5.1.8 Tabulation of Subcontractors and Suppliers

The Undersigned states that the following is a full and complete list of the proposed Subcontractors and Suppliers on this Project and the class of work to be performed by each and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	MBE/WBE STATUS	CLASS OF WORK OR MATERIAL
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

BIDDER: _____

By: _____

Name: _____

Title: _____

Date: _____

5.2.1 Certificate of Final Completion

Project:	Owner: City of Wauchula	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:

This Certificate of Final Completion applies to:

☐ All Work under the Contract Documents: ☐ The following specified portions:

Date of Final Completion

The Work to which this Certificate applies has been inspected by authorized representatives of the Owner, the Contractor and the Engineer, and found to be complete and final. The Date of Final Completion of the Project or portion thereof designated above is hereby declared.

Executed by Engineer Date

Accepted by Contractor Date

Accepted by Owner Date

5.2.2 Certificate of Substantial Completion

Project:	Owner: City of Wauchula	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:

This [tentative] [definitive] Certificate of Substantial Completion applies to:
☐ All Work under the Contract Documents: ☐ The following specified portions:

_____

_____

_____
Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby declared and is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

A [tentative] [revised tentative] [definitive] list of items to be completed or corrected, is attached hereto. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as provided in the Contract Documents except as amended as follows:

☐ Amended Responsibilities ☐ Not Amended

Owner's Amended Responsibilities:

_____

_____

Contractor's Amended Responsibilities:

_____

_____

The following documents are attached to and made part of this Certificate:

_____

_____

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

_____ _____
Executed by Engineer Date

_____ _____
Accepted by Contractor Date

_____ _____
Accepted by Owner Date

5.2.3 Change Order Form

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

The Contract Documents are modified as follows upon execution of this Change Order:
Description:

_____

_____

Attachments: (List documents supporting change):

_____

_____

CHANGE IN CONTRACT PRICE:

Original Contract Price:

$ _____

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____

$ _____

Contract Price prior to this Change Order:

$ _____

[Increase] [Decrease] of this Change Order:

$ _____

Contract Price incorporating this Change Order:

$ _____

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☐ Calendar days
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____
Substantial completion (days): _____
Ready for final payment (days): _____

Contract Times prior to this Change Order:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

Increase] [Decrease] of this Change Order:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

Contract Times with all approved Change Orders:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

RECOMMENDED:	**ACCEPTED:**	**ACCEPTED:**
By: _____	By: _____	By: _____
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date: _____	Date: _____	Date: _____

Approved by Funding Agency (if applicable): _____ Date: _____

5.2.4 Contractor's Application for Payment

Application for Payment No:._____

	Application Period:	Application Date:
To (Owner): City of Wauchula	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

APPLICATION FOR PAYMENT

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
TOTALS		
NET CHANGE BY CHANGE ORDERS		

CONTRACTOR'S CERTIFICATION

The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By:	Date:

1. ORIGINAL CONTRACT PRICE ..... $_____
2. Net change by Change Orders ..... $_____
3. CURRENT CONTRACT PRICE (Line 1 ± 2) ..... $_____
4. TOTAL COMPLETED AND STORED TO DATE
   (Column F on Progress Estimate) ..... $_____
5. RETAINAGE:
   a. _____ % x $_____ Work Completed ..... $_____
   b. _____ % x $_____ Stored Material ..... $_____
   c. Total Retainage (Line 5a + Line 5b) ..... $_____
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c) ..... $_____
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application) ..... $_____
8. AMOUNT DUE THIS APPLICATION ..... $_____
9. BALANCE TO FINISH, PLUS RETAINAGE
   (Column G on Progress Estimate + Line 5 above) ..... $_____

Payment of: $_____ _____
(Line 8 or other - attach explanation of other amount)

is recommended by: _____ _____
(Engineer) (Date)

Payment of: $_____

(Line 8 or other - attach explanation of other amount)

is approved by: _____ _____
(Owner) (Date)

Approved by: _____ _____
Funding Agency (if applicable) (Date)

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)
	Totals							

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)

	Totals							

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)

	Totals							

5.2.5 Field Order Form

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

Attention:
You are hereby directed to promptly execute this Field Order for minor changes in the Work without changes in Contract Price or Contract Times. If you consider that a change in Contract Price or Contract Times is required, please notify the Engineer immediately and before proceeding with this Work.

Reference: _____ _____
(Specification Section(s)) (Drawing(s) / Detail(s))

Description:

Attachments:

Engineer:	Date:
Receipt Acknowledged by (Contractor):	Date:

Copy to Owner

5.2.6 Notice of Award

Dated _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

Bidder:

Bidder's Address: (send Certified Mail, Return Receipt Requested)

You are notified that your Bid dated _____ for the above Contract has been considered. You are the Successful Bidder and are awarded a Contract for _____

(Indicate total Work, alternates or sections or Work awarded.)

The Contract Price of your Contract is _____ Dollars ($_____)

_____ copies of each of the proposed Contract Documents accompany this Notice of Award.

You must comply with the following conditions precedent within five (5) days of the date you receive this Notice of Award.

1. Deliver to the Owner fully executed counterparts of the Contract Documents.
2. Deliver with the executed Contract Documents the Contract Security [Bonds].
3. Other conditions precedent:

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award and declare your Bid security forfeited.

Within ten days after you comply with the above conditions, Owner will return to you one fully executed counterpart of the Contract Documents.

City of Wauchula
Owner

By: _____
Authorized Signature

_____
Title

Copy to Engineer

5.2.7 Notice to Proceed

Dated _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**
Contractor:		
Contractor's Address: (send Certified Mail, Return Receipt Requested)		

You are notified that the Contract Times under the above contract will commence to run on _____. On or before that date, you are to start performing your obligations under the Contract Documents. The date of Substantial completion is _____ and the date of readiness for final payment is _____ _____ [(or) the number of days to achieve Substantial Completion is _____ and the number of days to achieve readiness for final payment is_____].

Before you may start any Work at the Site, you and Owner must each deliver to the other (with copies to Engineer and other identified additional insureds) certificates of insurance which each is required to purchase and maintain in accordance with the Contract Documents.

Also, before you may start any Work at the Site, you must [add other requirements]:

_____

_____

_____

_____ _____

Contractor Owner

Received by:_____ Given By: _____

Authorized Signature

_____ _____

Title Title

_____ _____

Date Date

Copy to Engineer

5.2.8 Payment Bond

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

CONTRACT
Date:
Amount:
Description (Name and Location):

BOND
Bond Number:
Date (Not earlier than Contract Date):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL
Company:

Signature: _____(Seal)
Name and Title:

(Space is provided below for signatures of additional parties, if required.)

SURETY

_____(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

Attest: _____
Signature and Title

CONTRACTOR AS PRINCIPAL SURETY
Company:
Signature: _____(Seal)
Name and Title:

_____(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

Attest: _____
Signature and Title:

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.
/40126/1#60771613 v1

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to Owner, this obligation shall be null and void if Contractor:
   2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

   2.2. Defends, indemnifies, and holds harmless Owner from all claims, demands, liens, or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided Owner has promptly notified Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no Owner Default.

3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.

4. Surety shall have no obligation to Claimants under this Bond until:

   4.1. Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

   4.2. Claimants who do not have a direct contract with Contractor:

      1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and

      2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor had indicated the claim will be paid directly or indirectly; and

      3. Not having been paid within the above 30 days, have sent a written notice to Surety and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.

5. If a notice by a Claimant required by Paragraph 4 is provided by Owner to Contractor or to Surety, that is sufficient compliance.

6. When a Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at Surety's expense take the following actions:

   6.1. Send an answer to that Claimant, with a copy to Owner, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

   6.2. Pay or arrange for payment of any undisputed amounts.

7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by Owner to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and Owner accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under this Bond, subject to Owner's priority to use the funds for the completion of the Work.

9. Surety shall not be liable to Owner, Claimants, or others for obligations of Contractor that are unrelated to the Contract. Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, Owner, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. DEFINITIONS

   15.1. Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and Contractor's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

   15.2. Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.

   15.3. Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

FOR INFORMATION ONLY (*Name, Address and Telephone)*

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.

Surety Agency or Broker:
Owner's Representative (*Engineer or Other Party*):

5.2.9 Performance Bond

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT
Effective Date of Agreement:
Amount:
Description (*Name and Location*):

BOND
Bond Number:
Date (*Not earlier than Effective Date of Agreement*):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	SURETY
_____(Seal)	_____(Seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint venturers, if necessary.

Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner for the performance of the Contract, which is incorporated herein by reference.

1. If Contractor performs the Contract, Surety and Contractor have no obligation under this Bond, except to participate in conferences as provided in Paragraph 2.1.

2. If there is no Owner Default, Surety's obligation under this Bond shall arise after:
   2.1 Owner has notified Contractor and Surety, at the addresses described in Paragraph 9 below, that Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with Contractor and Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If Owner, Contractor, and Surety agree, Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive Owner's right, if any, subsequently to declare a Contractor Default; and
   2.2 Owner has declared a Contractor Default and formally terminated Contractor's right to complete the Contract. Such Contractor Default shall not be declared earlier than 20 days after Contractor and Surety have received notice as provided in Paragraph 2.1; and
   2.3 Owner has agreed to pay the Balance of the Contract Price to:
      1. Surety in accordance with the terms of the Contract; or
      2. Another contractor selected pursuant to Paragraph 3.3 to perform the Contract.

3. When Owner has satisfied the conditions of Paragraph 2, Surety shall promptly, and at Surety's expense, take one of the following actions:
   3.1 Arrange for Contractor, with consent of Owner, to perform and complete the Contract; or
   3.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
   3.3 Obtain bids or negotiated proposals from qualified contractors acceptable to Owner for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by Owner and contractor selected with Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract, and pay to Owner the amount of damages as described in Paragraph 5 in excess of the Balance of the Contract Price incurred by Owner resulting from Contractor Default; or
   3.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:
      1. After investigation, determine the amount for which it may be liable to Owner and, as soon as practicable after the amount is determined, tender payment therefor to Owner; or
      2. Deny liability in whole or in part and notify Owner citing reasons therefor.

4. If Surety does not proceed as provided in Paragraph 3 with reasonable promptness, Surety shall be deemed to be in default on this Bond 15 days after receipt of an additional written notice from Owner to Surety demanding that Surety perform its obligations under this Bond, and Owner shall be entitled to enforce any remedy available to Owner. If Surety proceeds as provided in Paragraph 3.4, and Owner refuses the payment tendered or Surety has denied liability, in whole or in part, without further notice Owner shall be entitled to enforce any remedy available to Owner.

5. After Owner has terminated Contractor's right to complete the Contract, and if Surety elects to act under Paragraph 3.1, 3.2, or 3.3 above, then the responsibilities of Surety to Owner shall not be greater than those of Contractor under the Contract, and the responsibilities of Owner to Surety shall not be greater than those of Owner under the Contract. To the limit of the amount of this Bond, but subject to commitment by Owner of the Balance of the Contract Price to mitigation of costs and damages on the Contract, Surety is obligated without duplication for:

5.1 The responsibilities of Contractor for correction of defective Work and completion of the Contract;
5.2 Additional legal, design professional, and delay costs resulting from Contractor's Default, and resulting from the actions of or failure to act of Surety under Paragraph 3; and
5.3 Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of Contractor.

6. Surety shall not be liable to Owner or others for obligations of Contractor that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than Owner or its heirs, executors, administrators, or successors.

7. Surety hereby waives notice of any change, including changes of time, to Contract or to related subcontracts, purchase orders, and other obligations.

8. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located, and shall be instituted within two years after Contractor Default or within two years after Contractor ceased working or within two years after Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

9. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the address shown on the signature page.

10. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

11. Definitions.
11.1 Balance of the Contract Price: The total amount payable by Owner to Contractor under the Contract after all proper adjustments have been made, including allowance to Contractor of any amounts received or to be received by Owner in settlement of insurance or other Claims for damages to which Contractor is entitled, reduced by all valid and proper payments made to or on behalf of Contractor under the Contract.
11.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
11.3 Contractor Default: Failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.
11.4 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or otherwise comply with the other terms thereof.

FOR INFORMATION ONLY (*Name, Address and Telephone)* Surety Agency or Broker: Owner's Representative (*Engineer or Other Party*):

5.2.10 Work Change Directive Form

No._____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

You are directed to proceed promptly with the following change(s):

Item No.	Description

Attachments (list documents supporting change):

_____

_____

Purpose for Work Change Directive:

- □ Authorization for Work described herein to proceed on the basis of Cost of the Work due to:
  - □ Nonagreement on pricing of proposed change.
  - □ Necessity to expedite Work described herein prior to agreeing to changes on Contract Price and Contract Time

Estimated change in Contract Price and Contract Times:

Contract Price $_____ (increase/decrease) Contract Time _____ (increase/decrease) days

If the change involves an increase, the estimated amounts are not to be exceeded without further authorization.

Recommended for Approval by Engineer:	Date:
Authorized for Owner by:	Date:
Accepted for Contractor by:	Date:
Approved by Funding Agency (if applicable):	Date:

DIVISION 6:
TECHNICAL SPECIFICATIONS

See "Exhibit A – Wauchula AMI RFP Technical Specification"

Exhibit A – Wauchula AMI RFP Technical Specification

PREPARED FOR

City of Wauchula

DATE
July 8, 2024

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VERSION HISTORY:

Version	Date	Description
1.0	7/8/2024	RFP Submission Copy

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1 OVERVIEW

1.1 Introduction

The City of Wauchula ("City") is seeking a managed services provider ("Supplier") to deploy a successful, cost-effective, two-way-communication advanced metering infrastructure (AMI) managed-services program for their electric and water system. The City shall, in its sole discretion, select the successful Proposer. The City is not obligated to select a Supplier and move forward with the project.

The City and key stakeholders want to advance and update the utility infrastructure to provide more detailed usage data to customers, advance notifications of leaks, timely notifications of outages, and improve operational performance in meter-to-cash billing, system water/energy balance, and meter data management. The City and stakeholders want to leverage as much of the benefit-creation capabilities of the AMI system technology as possible and desire additional functionality beyond simply providing automated meter readings. Please refer to Section 2, "AMI Program Objectives and Desired Features," for a list of outcomes and expectations for the deployment.

The City does not possess the resources required to deploy or operate an on-site AMI system. Therefore, a managed services approach for installing and operating the system is in its best interest, given resource and staffing constraints. The City recognizes that ongoing fees for managing the program accompany managed services. The City anticipates financing field-deployed network communications and meter hardware on its own, augmented with Florida Department of Environmental Protection (DEP) funds, and moving directly to a managed services model for all other system components. The City is also interested in considering the inclusion of non-meter field network equipment management as a managed service.

The City retained Quanta Technology as the owner's engineer (OE) to assist with selecting a Supplier best equipped to provide a managed AMI service, considering the objectives, constraints, and preferences detailed in this RFP. The OE provides detailed technical expertise during the Supplier selection process and system deployment and supports integrating the Supplier's AMI system with the City's existing IT systems (working with the Supplier to resolve problems if they arise). Additionally, the OE will 1) serve as an advisor to the Supplier relative to customer outreach and education, 2) support the City in the negotiation of a contract with the Supplier, and 3), as directed by the City, serve in a project support and advisory role to the City's project manager in tracking the project deployment schedule and costs. The City expects the Supplier to work seamlessly with the OE and the City during the project.

The City anticipates entering a contract with a single Supplier with primary systems integration and ultimate managed services responsibilities. However, the City recognizes that it is highly likely that such a Supplier will work with service providers as subcontractors in some specific project areas, such as field deployment. The City is solution-independent and focused on procuring a time-tested hardware and software suite with a proven, successful track record.

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Table 1-1 summarizes the six core service areas the City anticipates will be required for a successful deployment.

Table 1-1. Anticipated Core and Optional Services

Supplier Services	Core or Optional	Service Description
Customer engagement consultant	Core	The Supplier will guide and support the City's customer communication strategy, particularly in areas related to the proposed technology and its community benefits. The supplier will also help the City address any community concerns.
AMI system deployment	Core	The Supplier will provide all meters, associated hardware, software, and telecommunications systems to the City and integrate AMI software with the City's existing customer systems (as described in this RFP).
Installation service provider	Core	The Supplier will provide the labor required for and perform 1) field replacement of all meters, 2) meter pit remediation, 3) maintenance/retention of meter change records, and 4) installation and commissioning of telecommunication devices.
Meter data management (MDM) functionality	Core	The Supplier will provide MDM-lite functionality per the RFP.
AMI solution suite training	Core	The Supplier will train key City staff on using/deploying the AMI platform elements that require user interaction, most notably customer service, operations, and data extraction/analytics.
Managed services administration	Core	The Supplier will provide long-term administration of the overarching AMI platform and associated software suite, including options and costs associated with ad-hoc or on-demand analytical services or data mining.

As previously noted, the City will engage in a contractual relationship with a Supplier who will be accountable to the City for the reliable integration of all hardware and software that is part of the managed services. The Supplier will integrate and be accountable for all subcontractors required (if any) to perform the services listed in Table 1-1 as part of their proposed solution. The Supplier can engage subcontractors in certain project areas, such as field deployment. However, there will be a single Supplier contract with sole responsibility for all project phases, including the provision of long-term managed services.

The following sub-sections are intended to provide information about 1) City systems and specific technical considerations germane to solution design, 2) the identified program objectives and desired features of the solution, 3) expectations for outsourcing, and 4) a description of the proposed meter system test fixture to provide proof-of-concept level acceptance of the product by the City and key stakeholders. Please see Section 3, "Supplier Scope of Services," of this RFP for guidance related to the specific scope expectations for the Supplier. Please see Section 23 of this RFP for guidance on the City's pricing expectations.

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The City expects to complete the configuration, integration, testing, and training of the Supplier's AMI application software within 5 months of contract signing (does not include meter installations)

1.2 Description of Wauchula Electric and Water Meters

This section provides an overview of the City's existing meters and its requirements for AMI meters.

The City is a rural central Florida community in Hardee county located approximately 70 miles southeast of Tampa and operates a municipal utility system providing electric and water services to approximately 6,000 accounts in an area covering approximately 3 square miles. The service territory is mostly suburban residential, with a mix of 96% residential, and 4% commercial. Section 26 provides location data and maps of the existing City water service area and assets. Files that include the services addresses shown in this section are available as part of the bid package. The latest summary of installed water meters is shown below, with a slight rounding up of meter quantities.

1.2.1 Installed Electric Meters

The latest summary of installed electric meters is shown in Table 1-2 with a slight rounding up of meter quantities.

Table 1-2: Approximate Electric Meter Summary

Meter Form	Number
2S CL200	2,592
2S CL320	32
3S CL20	4
4S CL20	16
9S CL20	52
12S CL200	32
16S CL320	100
25S CL200	4
46S CL20	56
Total	**2,888**

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1.2.2 Installed Water Meters

The latest summary of installed water meters is shown in Table 1-3 , with a slight rounding up of meter quantities.

Table 1-3. Approximate Water Meter Summary

Meter Size	Qty
5/8 x 3/4 in.	2,400
1 in.	250
1.5 in.	36
2 in.	85
3 in.	7
4 in.	8
Total	**2,786**

The City's water meter population is comprised primarily of Neptune, Master Meter, and Precision Meters with a smaller quantity of Badger and Sensus meters. The City also has ~500 newer Kamstrup FlowIQ 2100 and 3101 ultrasonic meters. Table 1-4 and Table 1-5 show meter age as a percentage of all meters.

Table 1-4. Electric Meter Age Distribution

Age Category	Percentage
0-4 years	19%
5-9 years	23%
10-14 years	54%
15-19 years	3.8%
20+ years	0.2%

Table 1-5: Water Meter Age Distribution

Age Category	Percentage
0-4 years	47%
5-9 years	23%
10-14 years	7%
15-19 years	11%
20+ years	12%

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1.2.3 Meter Retrofits

The City intends to retrofit approximately 500 Kamstrup FlowIQ model 2100 and 3101 ultrasonic meters that are newer meters in good working condition.

1.2.4 Water Delivery and Storage Retrofits

The City would like pricing options for both retrofitting and replacing the below system boundary metering points (see Table 1-6), for AMI.

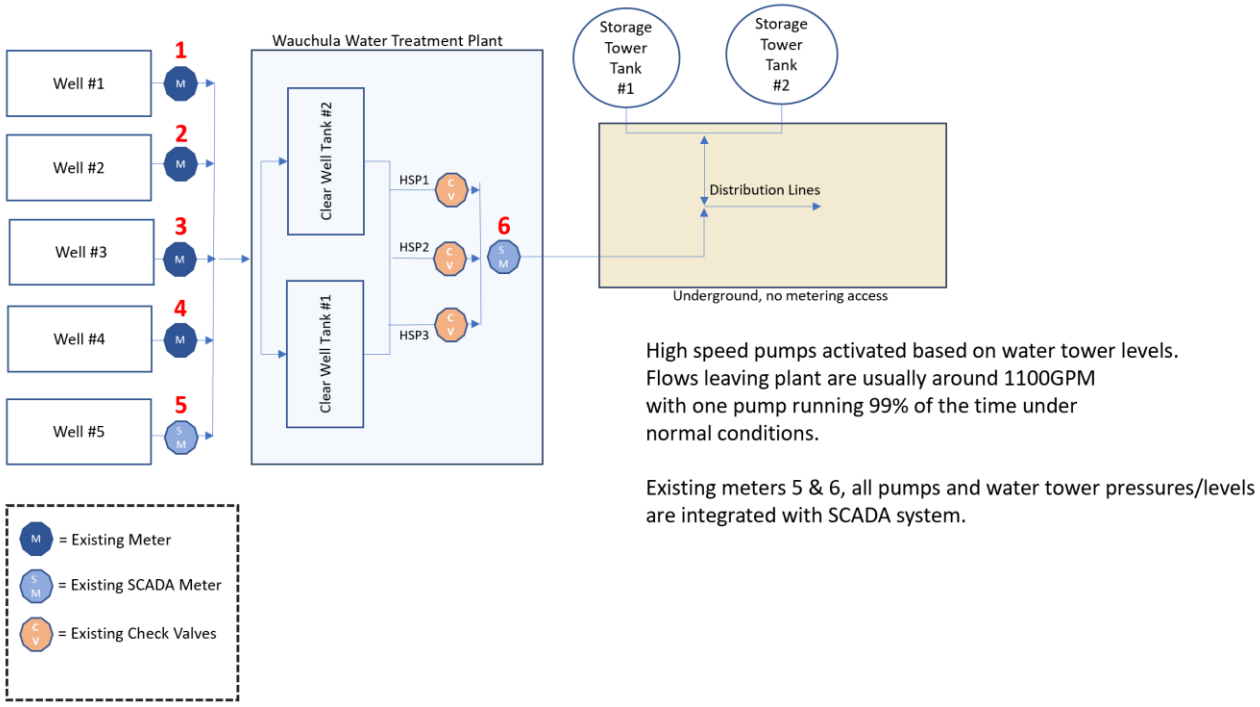


Figure 1-1. Water Delivery and Storage Overview

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Table 1-6. System Boundary Point Meter Retrofits

#	Location	LAT	LONG	Line Size	Manufacture Serial Number
1	Well Head #1	27.548408	-81.801730	6-inch	Water Specialties 902296
2	Well Head #2	27.548229	-81.501539	6-inch	Water Specialties 20121600-06
3	Well Head #3	27.547403	-81.801132	10-inch	Water Specialties 902298-10
4	Well Head #4	27.548748	-81.801420	12-inch	Water Specialties 20083006-12
5	Well Head #5	27.550425	-81.809231	12-inch	Krohne C102929
6	Meter #6 Outflow Meter	27.548666	-81.801328	10-inch	Krohne C10-1542

1.2.5 Other Meter Considerations

1.2.5.1 *Water Module Battery Life*

The Proposer must clearly articulate the impact on battery life in various usage scenarios including effects of extracting interval data from water meters, firmware upgrade frequency, maintenance activities, and on-demand command processing. A battery life of 20 years is required for normal usage (see Table 9-1). Only these off normal instances such are more frequent firmware upgrades, etc. might be allowable.

1.2.5.2 *Remote Disconnect*

The AMI system shall support both electric and water meter remote disconnect capability. Every residential electric meter shall include a remote disconnect switch. The water disconnect option is being considered by the City for strategic locations in limited quantities. Proposer should provide remote disconnect capability pricing for 12 residential 5/8x3/4 inch meters in pricing exhibit C if capability is available.

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1.3 Wauchula Field Conditions

The City completed a field audit of 556 sites conducted by an experienced water installer (field auditor) over 20 working days. A standard questionnaire was used in the auditor's work order management system (WOMS), whereby site pictures and field results were recorded. Table 1-8 contains the questionnaire used along with results.

1.3.1 Site Selection

Sites were selected with an overall age distribution of approximately 56% older meters (>10 years) and approximately 44% new meters (<10 years) and representative sampling across meter sizes in line with the City's meter population. Table 1-7 shows the number of selected sites.

Table 1-7. Site Selection Sites

Count of METER NO#	Column Labels						
Row Labels	a. 0-4 yrs	b. 5-9 yrs	c. 10-14 yrs	d. 15-19 yrs	e. 20+ yrs	No Install Date	Grand Total
ELECTRIC	**47**	**85**	**112**	**35**	**2**	**1**	**282**
12s	3	4			1		8
16s	4	28					32
2S	35	28	111	35	1		210
46s	2	12				1	15
4s			1				1
9s	3	13					16
WATER	**70**	**44**	**22**	**44**	**60**	**43**	**283**
1	10	6	10	7	10	5	48
1.5	1	1	1	2	1	1	7
2	7	5			4	2	18
3	1		1				2
4	1		1				2
5/8x3/4	50	32	9	35	45	35	206
Grand Total	**117**	**129**	**134**	**79**	**62**	**44**	**565**

1.3.2 Audit Results

The audit results are captured in Table 1-8 below. The following general observations were noted:

a. Most locations were able to be found with about 96% of locations readily accessible. However, the service territory does have some rural locations that are more challenging to locate the meter.
b. The vast majority of sites (90+%) will require some type of remediation, at a minimum vacuuming out the pit to remove sand.
c. A significant number of electric meters (20+%) will have unreadable or blank displays. In addition, several water meters had condensation under the glass making them difficult to read or unreadable.

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Table 1-8: Field Audit Results

Water Audit Questions				
#	**Item to Note**	**Condition**	**Count**	**Percentage**
1	Are there any access issues or challenges?	No	269	96.07%
		Yes: Cannot Locate	7	2.5%
		Yes: Locked Gate	4	1.43%
		Total	280	100.00%
2	Is the service on a hardscape?	No: Landscape	256	91.43%
		Yes - Asphalt	1	0.36%
		Yes - Concrete	12	4.29%
		No access	11	3.93%
		Total	280	100.00%
3	Note lid type.	Composite	198	70.71%
		Metal	7	2.50%
		Concrete	64	22.86%
		No access	11	3.93%
		Total	280	100.00%
4	Is there any remediation required at site? (multi-selection allowed therefore overlap of categories)	Yes: Meter was buried (sand)	250	92.9%
		Yes: Meter Box Reset Needed	41	15.2%
		Yes: Corrosion Noted	68	25.3%
		Yes: Lid Damage	20	7.4%
		Yes: Box Damage	14	5.2%
		Yes: Limited Space	3	1.1%
		Yes: Root intrusion	3	1.1%
5	Note Single or Dual Meter Configuration	Single Meter in Box	250	89.29%
		Dual Meter in Box	17	6.07%
		Three Meter in Box	2	0.71%
		No access	11	3.93%
		Total	280	100.00%
6	Note Plumbing pipe (City Side, Customer Side)	City=PVC Cust=PVC	183	65.36%
		City=Galvanized Cust=Galvanized	10	3.57%
		City=Galvanized Cust=Not Visible	2	0.71%
		City=Galvanized Cust=PVC	2	0.71%
		City=Not Visible Cust=Galvanized	1	0.36%
		City=Not Visible Cust=Not Visible	44	15.71%
		City=Not Visible Cust=Poly/PEX	2	0.71%
		City=Not Visible Cust=PVC	8	2.86%
		City=Poly/PEX Cust=Not Visible	1	0.36%
		City=PVC Cust=Galvanized	2	0.71%
		City=PVC Cust=Not Visible	11	3.39%
		City=PVC Cust=Poly/PEX	3	1.07%
		No access	11	3.93%
		Total	280	100.00%
7	Are the meter dials readable after a simple wipe?	Yes	259	92.50%
		No	10	3.57%
		No access	11	3.96%
		Total	280	100.00%
		No	266	95.00%

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Water Audit Questions				
#	Item to Note	Condition	Count	Percentage
8	Is there a leak and if so which side of the meter?	Utility side	3	1.07%
		No access	11	3.93%
		Total	280	100.00%
9	Does the meter pit have a curb stop? Or other isolation valve?	Yes	268	95.71%
		Unknown	1	0.36%
		No access	11	3.93%
		Total	280	100.00%
10	Is the meter set on a yoke?	Yes	245	87.50%
		No	24	8.57%
		No access	11	3.93%
		Total	280	100%

Electric Audit Questions				
#	Item to Note	Condition	Count	Percentage
1	Are there any access issues or challenges?	No	255	92.39%
		Yes: Cannot Locate	8	2.90%
		Yes: Locked Gate	13	4.71%
		Total	276	100.00%
2	Is the tamper seal on the meter broken?	No	207	75.00%
		Yes	48	17.39%
		No access	21	7.61%
		Total	276	100.00%
3	Does the meter have a locking ring?	Yes	236	85.51%
		No	19	6.88%
		No access	21	7.61%
		Total	276	100.00%
4	Does the meter base have any signs of damage?	No	255	92.39%
		No access	21	7.61%
		Total	276	100.00%
5	Are the meter dials or LCD display visually readable?	Yes	192	69.57%
		No	63	22.83%
		No access	21	7.61%
		Total	276	100.00%

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1.3.3 Field Conditions and Challenges

The City's field conditions vary, with pockets of significant challenges and numerous meter pits shifted, buried in sand or below grade. The City seeks to remedy these conditions as part of the project deployment as estimated below.

Remediation	Estimated Percentage
Meter box repositioning or replacement	50%
Meter lid replacement	100%
Curb stop replacement	50%
Yoke replacement	100%
Pit Vacuuming	100%

1.4 Description of Wauchula Back Office Systems

This section provides an overview of the City's back-office systems as they exist today and how they are envisioned after AMI implementation.

1.4.1 Installed Back Office Systems "As Is"

Figure 1-2 and Table 1-9 depict the City's current systems.

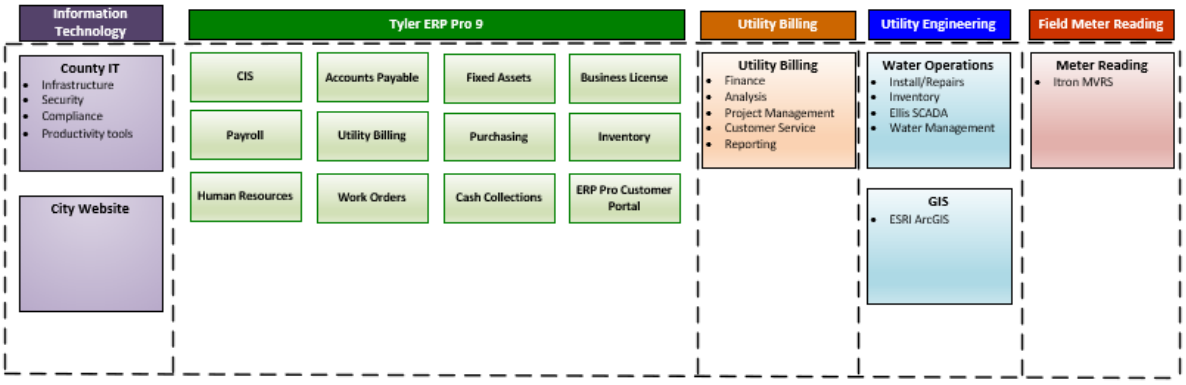


Figure 1-2. Wauchula Major Departments and Current Systems

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Table 1-9. Currently Installed Back Office Systems and the Associated Suppliers

System	Supplier	Supplier Location
Tyler ERP Pro 9	Tyler Systems	
GIS	ESRI ArcGIS	Redlands, CA
SCADA (Water Treatment)	Ellis Automated SCADA	Palm Beach, FL
Water Reading	Itron MVRS	

The City's account billing (water and electric combined) is organized into five billing cycle periods as shown in Table 1-10 below. The cycles are made up of 500-750 accounts. The routes are geographically grouped with the exception of Cycle 3 and 4, the business routes, which are spread throughout the City. Approximately 99% of the electric and 50% of the water is read via AMR with the remaining accounts being read manually.

Once a cycle is fully visited, an export is done, where high/low validation is performed. Missing or irregular reads are re-dispatched if needed. Figure 1-3 shows the current metering-related City IT systems data flow diagram.

Table 1-10: Billing Cycle Overview

Cycle	Routes	No of Accounts	Billed	Notes
1	1 - 4	640	13th of month	
2	5 - 8	771	17th of month	Largest cycle, ~750 accounts
3	12	169	23rd of month	Business accounts
4	13-14	423	23rd of month	Business accounts
5	9 - 11	899	last day of month	

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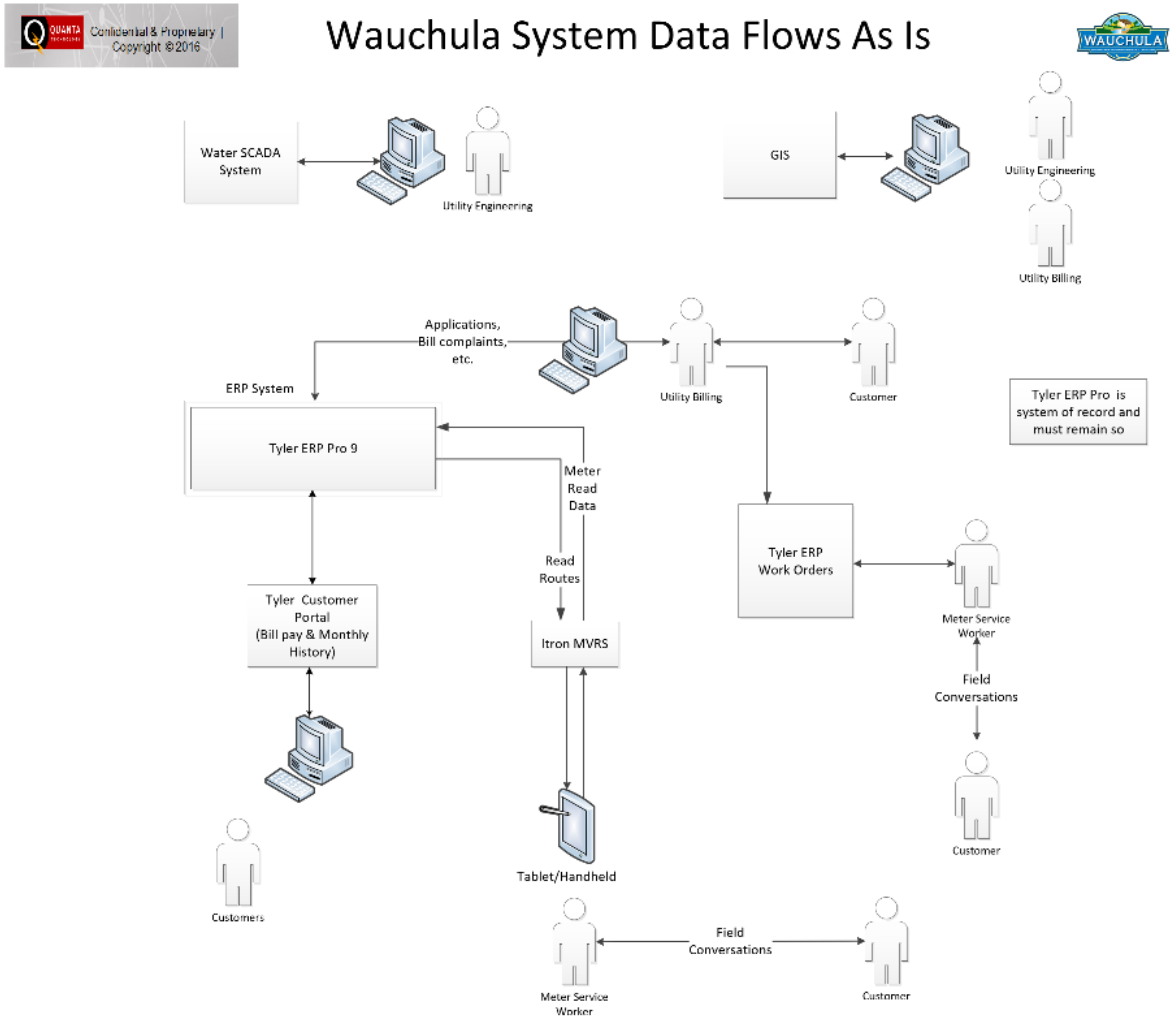


Figure 1-3. Wauchula System Data Flows (As-Is)

1.4.2 AMI Enabled Back Office Systems "As Will Be"

The City uses Tyler ERP Pro 9 as the primary enterprise and customer information system (CIS). The Supplier must have enough command over the needed systems integration steps to ensure maximum viability of the City's existing systems while maintaining flexibility for the future. A detailed system integration functional specification submittal will be required, and the Supplier must work with the City to develop this functional specification.

Please note that the City uses the Tyler ERP Pro customer portal. The Supplier must integrate with this portal and provide the end user a seamless, City-branded experience. Figure 1-4 shows the metering-

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related City IT systems data flow diagram as envisioned after the AMI deployment. The Proposer may provide alternative flows that may be deemed beneficial.

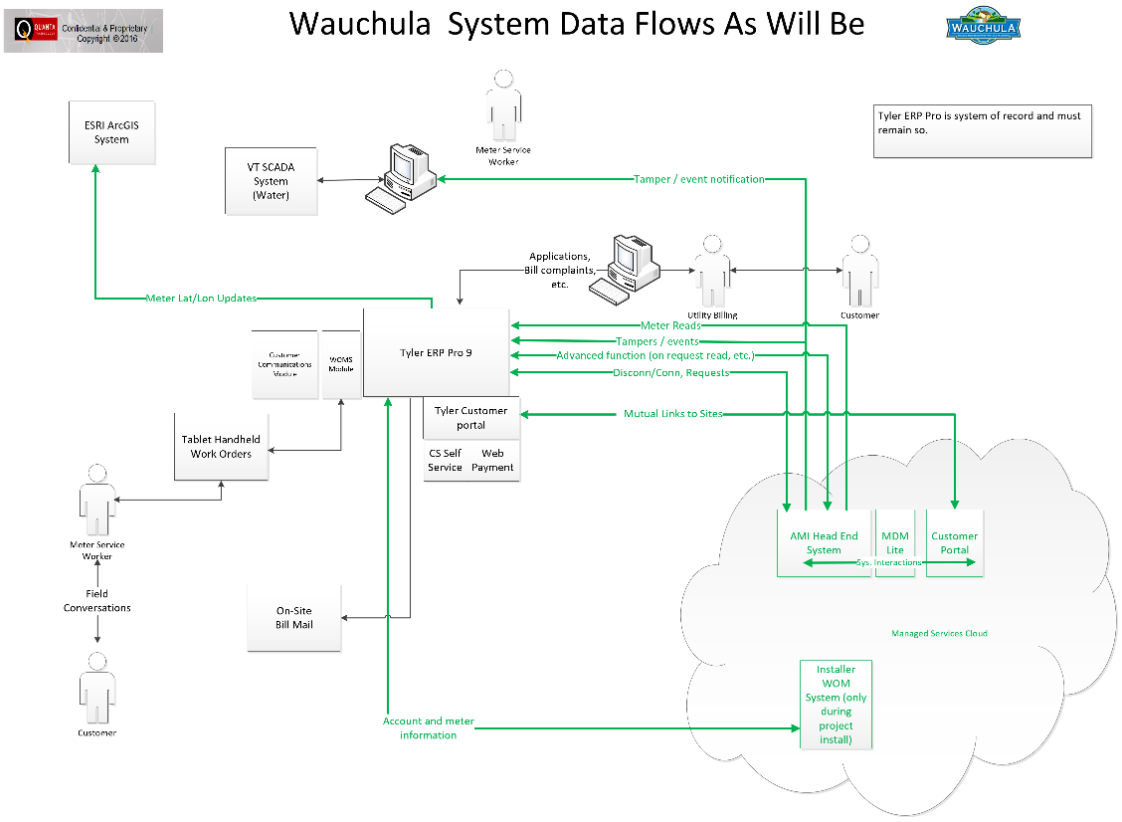


Figure 1-4. Wauchula System Data Flows After AMI Deployment (as Planned)

1.5 Communications Network

The City expects the AMI system to have two-way communication for electric and water meters and other smart grid field devices. City-owned property should be considered the location for non-meter AMI system network communication components. Information on property locations is included in Section 25. The overall system is expected to include communication devices that can have their firmware upgraded remotely with no field visits required.

1.6 Distribution System Overview

The electric distribution system serves power to the entire City limits (~2.3 sq miles) and extends into unincorporated Hardee County for a total of ~10 sq miles. Wauchula operates one substation and purchases its bulk power supply from Florida Power and Light (FPL) and purchases transmission services from Duke Energy Florida (DEF) and FPL. They have 3 distribution supply feeders: North Feeder (512 customers), West Feeder (1038 customers) and East Feeder (1037 customers). They have 1 electrical connection to the FPL power system and employ 8 reclosers (single phase, 3 phase). The system transmission is from FPL and Duke. The system is predominately overhead distribution with limited underground distribution lines throughout the Wauchula service territory.

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The City is interested in adding distribution automation features in the future and would like information from proposers on how their system supports this functionality. The City does not currently plan to incorporate streetlights into the system but is open to suggestions from Proposers regarding this functionality. The AMI system shall offer optional interfaces to support load control (LC) including HVAC Compressors, Hot Water Heaters, and pool pumps.

1.7 AMI Managed Services

The City intends to implement its AMI system in a managed services (software as a service) environment to avoid incremental staffing requirements. The City will operate and maintain the AMI system's field-deployed physical assets. However, besides desktop computers, all AMI computational infrastructure will be located at the Supplier's managed services facility. Additionally, the City would like pricing for the Proposer to manage non-meter field communications assets (NaaS).

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2 AMI PROGRAM OBJECTIVES AND DESIRED FEATURES

In response to this RFP, the Proposer will propose a cost-effective solution that achieves the objectives in Table 2-1, balancing cost and reliability with priorities relative to features and objectives. ***The City will not pay for a heavily customized solution that achieves all the objectives and features below. Rather, the City seeks a reliable, time-tested platform that provides as many features as possible at a reasonable price.***

It should be noted that Table 2-1 is a broad overview and not an exhaustive list. The specific Proposer's detailed requirements for this RFP are included in this document starting with Section 5.

Table 2-1. AMI Objectives and Example Outcomes

AMI Solution Objective	Example Outcome(s)
Proven & reliable system implementation	The City plans to implement a stable AMI system that has proven successful in multiple similar projects. First-generation and other unproven equipment and software are not acceptable.
Cost-effective and practical solution	Communication system should be the most cost-effective and practical solution for the City. Consideration should be given to on-going maintenance requirements to limit burden on staff. The solution must support multiple water and electricity meter suppliers and utilize, to the extent practical, existing communication assets (fiber optic, etc.). Repeaters and Meter subcomponents (radio, LED display, meter canopy, disconnect) should have an excellent performance history and be backed by an industry-standard warranty.
Adaptability and flexibility	The platform should be flexible and receptive to future technologies like fiber-based backhaul. Proprietary interfaces should be minimized to facilitate easy integration with other present and future applications.
Improved customer service	The City would like to empower its customer service representatives with improved ability to manage complaints by leveraging features such as On-request reads, water leak detection, an easy-to-use portal to understand billing questions for electric and water usage, remote connect & disconnect of accounts, and automated outage text messaging or emails to communicate outages. Customer service representatives should be able to compare costs across multiple retail rate options and offer alternatives to customers that reflect savings opportunities.
Improved billing cycle turnaround	Customers currently receive bills for actual consumption occurring 30 days before the bill. The cycle should improve with an interface between the AMI platform and the billing system; AMI and CIS/billing integration should retain the City's existing retail rate structure.

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AMI Solution Objective	Example Outcome(s)
Reduced meter reading costs	The AMI implementation will collect detailed interval data and registers to support billing in a manner compatible with the City's existing billing system.
Providing customers access	Customers will have a user-friendly web portal providing access to near real-time data and simple graphics that are easy to use.
Strategically designed to support optional alternative rate or load management programs	Opt-in programs for time-of-use or critical peak pricing, or load management (e.g., communicating thermostat setpoint adjustments) that are enabled by careful selection of flexible technology
KPI tracking for distribution system performance and proactive repair/replacement	Water meter leak detection, daily access to water consumption, stopped meters, reduction of truck rolls, commodity theft, etc.
Limited or controlled risk of planned obsolescence and shorter (maximum 10 years) meter replacement cycles	Unforeseen large capital expenditures associated with ownership are avoided/eliminated because managed services adequately protect the City and its customers from short-duration replacement cycles for hardware and software.
Support for bidirectional meters	System should support the City's net metering program, which utilizes bidirectional meters to credit customers for energy sent back to the grid from rooftop solar installations. Net metering is not sufficient to satisfy the need to separately identify delivered and received energy. It is anticipated that all AMI electric meters will have the ability to meter delivered and received energy via separate registers – not net.
Full acceptance of the AMI solution by the community	The City will invest heavily in customer education and outreach regarding adopting a new AMI system and explaining its benefits. While customer concerns will be addressed and ongoing education will be available to the public, an opt-out option will not be provided.

2.1 Anticipated AMI Benefits

The City has identified the following AMI benefits and goals:

- Implement a state-of-the-art AMI system that addresses the City's current requirements as well as enabling longer-term smart grid capabilities.
- Engage, educate, and obtain buy-in from internal and external stakeholders for this AMI project implementation.
- Use of bi-directional metering to enable expanded use of solar or other renewables
- Improve customer satisfaction with customer web portal features such as:
  - Detailed views into electric and water usage during the month on at least an hourly granularity
  - Future flexible payment options including bill date selection, different rates (TOU, demand, etc.), pre-pay, and levelized billing

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  - Customer alerts and notifications based on budget and/or electric consumption targets
  - Ability to schedule power re-connect/disconnect
- Promote environmental responsibility by reducing truck rolls and enabling remote resolution to address customer concerns
- Improve overall conservation with features such as:
  - Providing customer electricity and water detailed usage information to identify high electric or water usage in shorter time frames before they become critical.
  - Identify water leaks in shorter time frames.
  - Identify system losses with system water balance analysis.
  - Enhance the City's operational performance through revenue recovery and protection with tamper detection and energy and water diversion sensing capabilities.
- Improve the City's operational efficiencies through increased situational awareness of electric and water systems.
- Improve the City outage response and restoration speed with detailed knowledge about the location and extent of outages in near-real-time.
- Improve operational efficiencies, expense, and environmental impacts of truck rolls using remote connect/disconnect electric meters (and potentially water meters) to support remote turn on/off (for both non-pay and move-in/out.

2.2 Proposed Project Implementation Schedule

The City estimates the deployment period to be approximately 17 months, broken down as follows:

1. **Pre-deployment:** This stage assumes 3 months for system integrations and deployment readiness activities. Field installations will not be permitted at any scale before the successful completion of the FSAT, whereby all system integrations are validated.
2. **Limited Deployment:** A one-month limited deployment will validate billing operations. Field installations will be allowed on a limited scale, while billing is evaluated through parallel testing during this period. However, full-scale mass deployment will not be permitted until billing operations are validated throughout the limited deployment period.
3. **Mass Deployment:** A 12-month deployment period is assumed for electric and water meter installations and associated field remediation efforts (meter boxes, pits, etc.)
4. **System Acceptance:** A 1-month test period is designated for final system acceptance of a fully deployed system.

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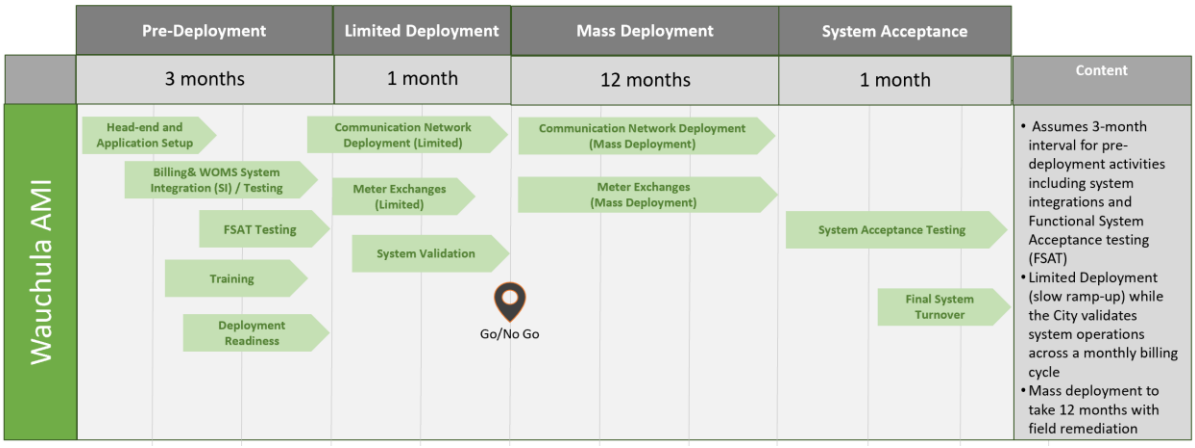


Figure 2-1. Project Implementation Timeline

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3 SUPPLIER SCOPE OF SERVICES

The City does not intend to explicitly prescribe a scope of services for the successful Proposer. In partnership with the OE, the City will review each qualified proposed solution and compare features, benefits, and other factors as detailed in Section 4. The City anticipates a general phased framework for implementing the managed services, reflecting a partnership between the City and the Supplier. The City offers a generic time sequence (see Section 21) and recognizes that stakeholder outreach and education activities would be executed as a parallel process at inception and throughout the deployment. Proposers are encouraged to propose alternative sequencing or phases that have been successful in other deployments as part of their proposal.

Please note that OE will perform various duties through all stages of the AMI deployment. At various times throughout the process, OE will be asked to present to the City Commission or other public meetings (potentially in concert with key City staff) to discuss the project and may request information or materials from the Supplier. The Supplier should make itself available during key milestone periods or propose what it believes is a reasonable level of engagement as the deployment progresses. The City's goal is to ensure adequate and specific communication with all parties that have a vested interest in the program's success.

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4 RFP PROCESSES

4.1 Response Sections

All correspondence during the proposal process will be conducted as noted in Table 4-1, and supported by DemandStar, City's procurement system. The Proposer's responses will be electronically submitted via the City's response template. Responses must be in an electronic word-searchable format unless the proposal contains information designated as confidential, in which case the unredacted proposal may be submitted as a paper printout, per the instructions in the accompanying proposer terms document. If a paper version is submitted, a redacted, electronic version must still be submitted in word-searchable format. As noted in the proposer terms document included with this RFP, all proposal submissions are public records under Florida's public records law (Section 119.011(12), Florida Statutes). Redactions must be limited to confidential or exempt information as allowed under Florida and Federal law. Broad-based redactions inconsistent with the statutes will result in bid disqualification.

A pre-bid meeting will be held to review the RFP and submission guidelines (see Table 4-1 for details). Proposers are highly encouraged to attend this meeting to ensure compliance with RFP requirements. Proposer questions will be e-mailed to scamacho@cityofwauchula.com and subsequent responses will be provided via a secure SharePoint site along with any supplemental files or information provided.

The Proposer must comply with the accompanying proposer terms (included with this RFP). Clarifications or exceptions not identified in the RFP for specific requirements are to be noted in the "Clarifications and Assumptions" section within the City's supplied proposer response template.

Proposers must use the proposer response template included with this RFP. **When an RFP requirement indicates that a price is to be provided, that price and all other pricing must be included in the provided "Exhibit C - Wauchula AMI RFP Pricing Worksheet.xlsx" Microsoft Excel file.** Pricing in other areas, attachments, or references will not be accepted, as all pricing must be included in the provided spreadsheet.

This document defines the requirements and the Proposer's compliance (yes or no). A "yes" reply indicates complete compliance. An area is included to support the Proposer's comments. Many of the requirements are strictly submittals. For such requirements, compliance should be marked as "yes," and a numerical corresponding reference number (e.g., Attachment 1) should be provided. Any response not fully compliant with the requirement should be marked as "no" with clarifications from the Proposer included in the Proposer comments column. "Yes" may only be indicated when there is total compliance without clarification, assumptions, etc. The City will disregard any comments next to a "yes" response and consider the Proposer fully compliant with the requirement regardless.

A "No" response in the requirements tables is not an immediate disqualifier. However, **failure to offer certain features, components, or services identified in Section 5, Mandatory Requirements, may result in disqualification.** The selection process will result in a recommendation to the Wauchula City Commission. The Commission has the final say and the right to accept or reject any or all proposals.

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The City's proposer response template (**Exhibit B – Wauchula AMI RFP Technical Response Template.docx**) contains the following sections:

1. **Cover Letter:** Proposers are to provide a one-page cover letter summarizing why the City should select the Proposer for this deployment.
2. **Proposer Overview and Project Personnel:** Proposers should provide the information requested via Table 6-1 to allow the City to evaluate the firm's financial stability.
3. **Technical Solution:** Proposers should provide a succinct and easy-to-understand synopsis of the proposed hardware and software solution and the Proposer's vision for successful systems integration and ongoing managed services administration. The technical information detailed in part of the template includes 1) proposed meters, 2) physical interconnection, 3) communications backbone (including available options), 4) required communications studies to ensure appropriate coverage, 5) a summary of all software programs required to achieve the City's desired AMI objectives (i.e., web-based customer portal, MDM Lite, etc.), and 6) a summary of the Proposers' plan to integrate proposed products with existing City systems in a manner that minimizes the risk of failure and burden to City staff. The disclosure of attributes of the proposed system (as defined in the technical requirements throughout this document) is critical. This section should be limited to 20 pages since most technical and pricing information will be in the Proposer's RFP table submittals.
4. **Cutover Plan:** The Supplier must be able to support the required system integrations while having the Tyler billing system remain functional during the system's rollout. The Proposer should provide the information required in Table 14-1 on how the Proposer will support this need and ensure a smooth transition to full AMI billing operations with meters being removed and replaced daily.

5. **Mandatory Requirements:** Responses to the mandatory requirements listed in Section 5 must be noted within the "Mandatory Requirements" section of the City's proposer response template. Failure to comply with these requirements may result in disqualification.

6. **Completed Tables in the Proposer Response Template (Exhibit B – Wauchula AMI RFP Technical Response Template.docx) and Pricing Included in the City's Pricing Excel Worksheet (Exhibit C – Wauchula AMI RFP Pricing Worksheet.xlsx):** The City will evaluate the proposed AMI functionality as described in this RFP, which is consistent with the proposer terms document attached. Proposers should maintain the tabular structures as they are critical to the City's proposal evaluation approach. As such, the Proposer's proposal must comply with the completion of these tables without modifications.

4.2 Evaluation Process

Please note that because the City seeks a cost-effective state-of-the-art AMI solution that supports its needs, it may not select the lowest-priced qualified proposal.

The City Manager will create a selection evaluation committee (SEC) to evaluate all submitted proposals. Based on criteria established by the selection committee, up to four qualified proposals

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will be selected for additional detailed evaluation. Qualified proposals will be evaluated by a panel of evaluators who will use objective factors to assign points to the Proposer's responses in several categories, including technical solutions, commercial fit, and pricing. Points will be weighted according to the importance of each requirement. Proposers may be required to attend in-person interviews and/or engage in oral presentations to clarify their proposals. The evaluation panel may choose to visit one or more references provided by the highest-scoring Proposer(s) before making the final selection.

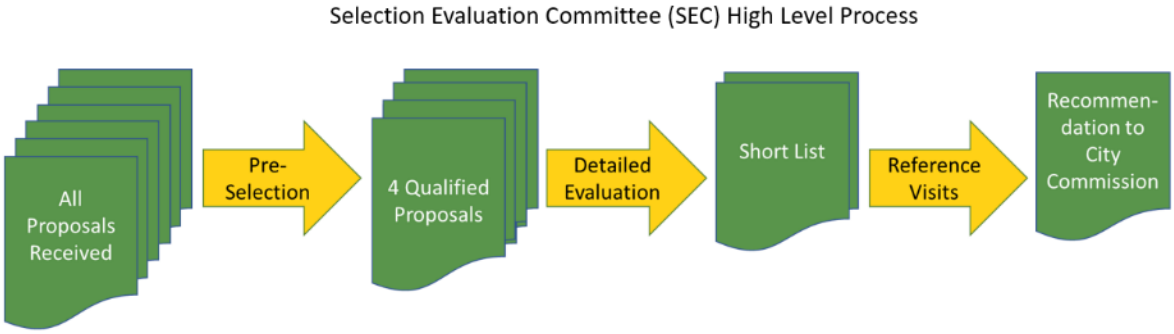


Figure 4-1. Evaluation Process

4.3 RFP Schedule

The estimated overall Bid Cycle is shown below.

Figure 4-2 presents a tentative RFP schedule. The City reserves the right to adjust the schedule for any reason or no reason. The City may issue an email as appropriate to inform all respondents of such changes in the RFP schedule. It is the Proposers' responsibility to ensure that the City has correct email addresses, that messages from the City are not misdirected to spam filters, and that they have personnel available to monitor and read the City's messages. **Proposals must be received through the DemandStar System no later than 3 PM Eastern on Tuesday August 27, 2024.**

Table 4-1. Key RFP Dates

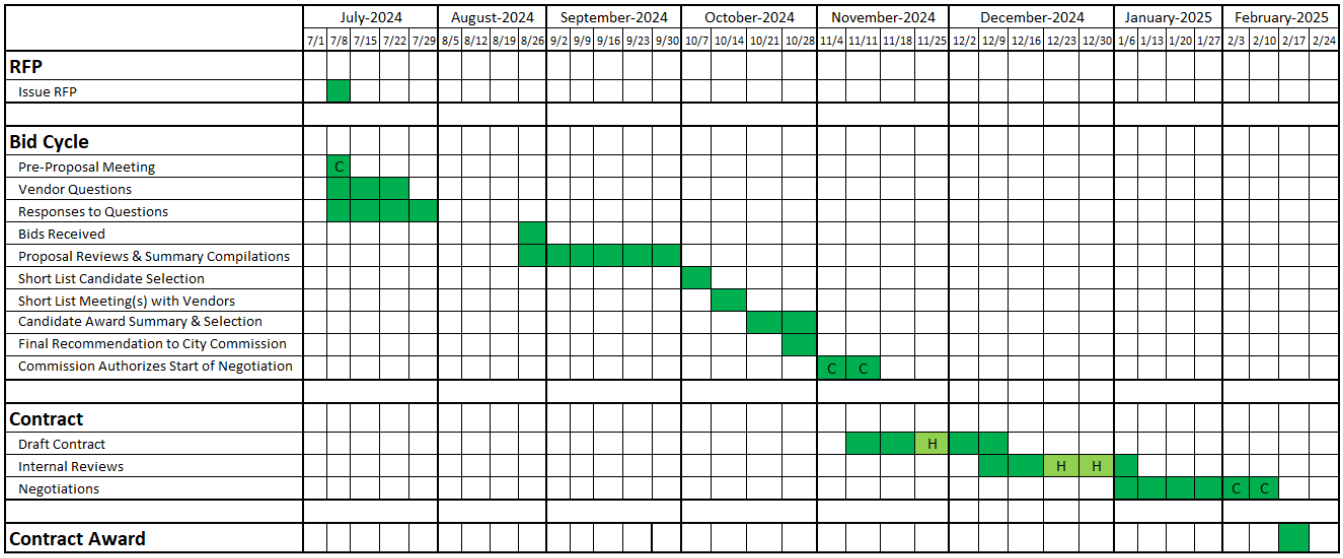
Activity	Description	Method	Date
RFP bid posted and proposer questions period start	RFP posted. Initial questions from Proposers are allowed.	DemandStar	7/9/2024 (by 12PM EDT)
Pre-bid meeting	Pre-bid meeting to review bid-package	Virtual attendance, see RFP for additional details.	7/11/2024 (2PM EDT)
Deadline for final questions	No further questions from Proposers are allowed.	Proposers will receive an email notification notifying them that the question period is closed.	7/23/2024 (5PM EDT)

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Activity	Description	Method	Date
Responses to proposer questions	The City provides question responses as soon as reasonably possible.	The City will post responses to questions via RFP addendums posted in DemandStar. Proposers will receive notification of responses. All Proposers will see all questions and responses.	7/30/2024 (by 5PM EDT)
Bid return deadline	RFP responses due	Via DemandStar (submittal time stamp shall be conclusive as to the timeliness of filing)	8/27/2024 (by 3PM)
Bid opening		The bids will be publicly opened at 3 PM Eastern on 7/16/2024 at City Hall.	8/27/2024 (at 3PM)

The estimated overall Bid Cycle is shown below.

Figure 4-2. Tentative RFP Schedule



C= Indicates City Commission Workshop/Meetings
H= Holiday Week

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5 MANDATORY REQUIREMENTS

The requirements listed in Table 5-1 are considered mandatory. Failure to comply with any of the below requirements may result in disqualification.

Table 5-1. Mandatory Requirements

Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.1	No proposal shall be accepted from, nor will any contract be awarded to, any Supplier who is in arrears to the City upon any debt, fee, tax, or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City, or who is otherwise determined to be irresponsible or unreliable by the City.			
M.5.2	All Suppliers, including the Suppliers' subcontractors, must be qualified and licensed under the laws, rules, and regulations of the State of Florida to perform the work required by these contract documents.			
M.5.3	Failure to properly complete the proposal and required forms and requested data shall result in disqualification, including: • File formats that are not word searchable via commonly available desktop software (i.e., MS Office, Adobe Acrobat, etc.). • Failure to use the proposal forms furnished by the City. • Failure to provide signatures as requested by authorized representatives on proposal form(s).			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.4	Submittal issues such as: • Evidence or suspicion of collusion among Proposers. • Unauthorized alteration of proposal forms. • Violation of the City's purchasing rules, Florida statutory requirements, or the requirements of this RFP.			
M5.5	The Supplier shall satisfactorily complete all Standard submittal forms.			
M.5.6	The proposed solution must include a managed software as a service (SaaS) offering with a minimum of a 10-year contract period.			
M.5.7	The proposed solution must include a managed network (NaaS) with a minimum 10-year contract period as a service offering.			
M.5.8	The Supplier must have five or more US customers using software as a service/network as a service during the last 5 years.			
M.5.9	The Supplier's system must support remote firmware upgrades on each type of endpoint device and have successfully executed this capability previously in a production environment.			
M.5.10	The proposed solution must support remote meter reads without needing site visits or drive-by activity.			
M.5.11	The proposed solution must support a customer portal with the ability to display quantities and required alerts (see Table 13-5)			
M.5.12	The Supplier must provide a system test fixture (see Table 12-1) as part of the proposed solution.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.13	The Supplier's proposed solution must include field installation services for both electric and water accounts along with any required water meter pit remediation.			
M.5.14	The proposed solution must interface with the City's Tyler ERP Pro system in such a manner as to provide an equivalent set of billing inputs with minimal disruption to existing City processes.			
M.5.15	All network and field devices (including metering endpoints) associated with the Supplier's system must not interfere with the City's lift station radios or SCADA system. SCADA system for electric uses cellular routers that are 4G LTE and is IP-based utilizing bands B2, B4, B5, B12, B13, B14, B77, and B71. SCADA system for WWTP / WTP is protected with some being cellular based and some internet based. The guarded SCADA frequency range for the WWTP / WTP is 2400 HZ.			
M.5.16	The City strongly desires a single Supplier contract with sole responsibility for all project phases, including the provision of long-term managed services. It is a mandatory requirement that the technology owner/developer be the contract signatory on the long-term managed services agreement. Please include a sample managed services agreement as supplemental information supporting this mandatory requirement.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.17	The Supplier of the managed services offering and the ongoing year-over-year support for the system must be the technology provider of the AMI software systems.			
M.5.18	The Supplier of all software integrations to City systems must be the technology provider of the AMI software systems. The technology owner/developer must supply a project manager / prime resource to support and oversee the entire system integration effort including statement of work, design, development, FSAT testing, and acceptance. Please elaborate on the team structure being proposed for software integrations.			
M.5.19	The technology Supplier shall provide initial training and ensure ongoing training is available for the system's life.			

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6 PROPOSER INFORMATION

6.1 Company Information

The Proposer shall detail the company information.

Table 6-1. Company Information

Rqmt. #	Requirement Description		Comply		Comments / Clarifications
			YES	NO	
6.1.1	Proposer Co. Name				
6.1.2	Office Address				
6.1.3	Contact Name				
6.1.4	Contact Title				
6.1.5	Contact email				
6.1.6	Contact Phone #				
6.1.7	Proposer Financial Information				

6.2 References

Please provide references for the Proposer's managed services for similar municipal utility deployments, including the information requested in Table 6-2. Please indicate all experience in the US Southeast or Florida where managed services are provided. If the system covers water-only areas, please indicate this fact.

When completing Table 6-2, the Proposer shall supply information for a minimum of one reference of a project (completed in the last 3 years) that meets each of the following criteria:

- **AMI –Electric & Water Solution:** AMI deployment, including water-only or electric and water with two or more water-only areas within the overall territory.
- **AMI – with Customer Portal:** AMI deployment, including use of Tyler's ERP Pro Customer Portal. Proposer to describe the functionality in use.
- **AMI – with Tyler ERP Pro**: AMI deployment successfully integrated with a Tyler ERP Pro system. Proposer to describe the functionality in use.

References that meet more than one of the above criteria would be especially valuable.

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Table 6-2. References

Rqmt. #	Rqmt. or Project Description	Utility Name	Utility in FL?	Contact Name and Title	Contact Phone #	Contact Email	Start/Completion Date	Number of Meters		Project Description
								Electric	Water	
6.2.1										
6.2.2										
6.2.3										
6.2.4										
6.2.5										
6.2.6										
6.2.7										
6.2.8										
6.2.9										
6.2.10										
6.2.11	Identify any failed or defaulted projects in the last 5 years.	Description								
6.2.12	Identify any claims or judgments outstanding against your company or sub-suppliers.	Description								

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6.3 Customer Site Visits

As part of the proposal process, the City may visit the shortlisted Proposers' references to better understand the system's capability and performance. Please provide references for Proposer managed services for similar municipal utility deployments in Table 6-2. Support for Customer Site Visits should be noted in Table 6-3 below.

Table 6-3. Customer Site Visits

Rqmt. #	Requirement Description	Comply?		Comments / Clarifications
		YES	NO	
6.3.1	The Proposer shall recommend up to three customers for site visits. Preference will be given to utilities of similar size, scope, and proximity to the City.			
6.3.2	The Proposer shall work with at least two customers to arrange an on-site (or virtual) demonstration of systems and discuss utility processes, issues, etc. The City prefers that the Proposer not attend these on-site customer visits beyond simple introductions at the start of a meeting.			

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7 CUSTOMER ENGAGEMENT

Having a customer engagement plan and process is critical for successful project implementation. Table 7-1 details items for customer engagement. If the Proposer has additional ideas for customer engagement or marketing, please include them as part of its Customer Engagement response.

Table 7-1. Customer Engagement

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
7.1	The Proposer shall describe its experience with and approach to developing customer engagement plans.			
7.2	The Supplier must support at least 1 day on-site for the City's "AMI Day" meeting with residents.			
7.3	The Supplier must support 1 day on-site for a City Commission Meeting.			
7.4	The Supplier's installer must print advance notification customer communication materials, such as postcards. The content of these mailers will be developed in collaboration with the City. The Supplier must manage the timing and mailing of these materials to provide at least 14 days of notice to customers before installation.			
7.5	The Supplier must print door hangers that installers will distribute at residential locations during successful and attempted installations. The content of these door hangers will be developed in collaboration with the City.			
7.6	The Proposer shall provide recommendations for additional marketing material based on its experience.			
7.7	The Proposer shall describe other options for customer engagement, if applicable.			

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8 AMI ELECTRIC METERS

8.1 General Features

Table 8-1 presents the general requirements for the electric meters for the AMI deployment.

Table 8-1. General Features

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.1	Define the meter manufacturer (by form if different manufacturers).			
8.1.2	Primary single-phase meter as offered shall have been in production for more than a year at time of proposal. Proposer shall provide number of units shipped in the last 12 months.			
8.1.3	Single-phase meters shall be available from at least two different manufacturers. Identify which manufacturers' meters and models are supported.			
8.1.4	Meters shall be solid-state ANSI compliant with a configurable minimum six-digit (not including identifiers) scrolling LCD display for residential meters, six digits for commercial meters.			
8.1.5	Meters shall include an integrated "under the glass" communications module compatible with the AMI system.			
8.1.6	Meter manufacturer shall supply a sample nameplate for each meter form for the City's approval prior to meter shipment. Specific nameplate colors or meter numbering shall be available for each form and class if requested by the City.			
8.1.7	All meters including the communications module shall be tested at the factory and shipped with the test report.			
8.1.8	Meters shall ship from the factory pre-programmed. The program shall be approved by the City.			
8.1.9	All three-phase meters shall be available with an optional ANSI C12.18 compliant optical port for local reading and programming.			

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Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.10	Single-phase and 12S meters shall include a port for configuration and reading. There should be a means to remotely disable and enable the port.			
8.1.11	Meter shall support over the air and local F/W updates for both meter and communications related firmware. Meter shall have F/W rollback capability. Proposer shall describe this functionality. Meter shall continue to meter during firmware update.			
8.1.12	Single-phase meters shall include a 200A bi-stable latching disconnect switch matching the rating of the meter.			
8.1.13	Disconnect switch can be remotely operated via AMI system, RF tool, or optical port. Switch shall not connect if there is load side voltage. Meter shall provide an alarm in this case.			
8.1.14	Meter shall be able to be programmed to perform a self-read, as well as a demand reset at a specific time and day of the month.			
8.1.15	Proposer shall describe the meter losses during normal operation.			
8.1.16	Meter shall use nonvolatile memory for storing data.			
8.1.17	Meter shall support voltage monitoring and profiling. Proposer to describe these voltage measurement capabilities.			
8.1.18	Mechanical demand reset mechanism shall be provided as an option.			
8.1.19	Does the meter manufacturer require a first article customer approval process? If so, describe that process.			

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8.2 Ratings and Standards

Table 8-2 presents the ratings and standard requirements for the electric meters for the AMI deployment.

Table 8-2. Ratings and Standards

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.2.1	All meters shall comply with the current versions of the following ANSI industry standards: ANSI C12.1, C12.10, C12.19, C12.20, and C37.90.1.			
8.2.2	Meters shall comply with UL 2735. If this requires a higher cost meter than what would otherwise be needed to meet this specification, Proposer may also quote a non-UL-listed option in addition to the UL-listed meter.			
8.2.3	Meters shall comply with IEC 61000-4-4 and C62.45.			
8.2.4	Meters shall comply with applicable FCC standards.			
8.2.5	Temperature range. -40 to +85 degrees C.			
8.2.6	Frequency: 60Hz.			
8.2.7	ANSI C12.20 accuracy class 0.5 or better for residential meters, class 0.2 for commercial meters.			

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8.3 Metered Quantities

Table 8-3 presents the energy and power metering quantity requirements for the electric meters for the AMI deployment. Quantities that are available at the meter but not available to the head-end over the AMI network are not to be considered when identifying compliance.

Note that not all of these quantities are required on all meters at initial deployment. Consideration will be given to solutions that offer lower-cost meters that can be upgraded over the air as needed. In that case, Proposer shall identify the cost of the upgrades and any limitations around these upgrades, such as loss of data in the meter or disruption of metering functionality during the upgrade.

Table 8-3. Metered Quantities

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.3.1	Energy: Wh, VAh or VARh (delivered, received, sum, net)			
8.3.2	Max demand: W, VA, VAR. (Specify if demand is rolling or block)			
8.3.3	Current (commercial meters only), Voltage, Power factor, Watts, Vars			
8.3.4	Time of use: min 4 seasons, 4 rates, 4 switch points for energy quantities required. If proposing non-TOU meters, describe how the system can calculate TOU billing determinants from interval data.			
8.3.5	Interval data: min 4 channel 35 days, 15 min intervals - configurable to 5, 15, 30, or 60 min intervals			

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8.4 Electric Meter AMI System Functionality

Table 8-4 presents the AMI system functionality requirements for the electric meters for the AMI deployment.

Table 8-4. Electric Meter AMI System Functionality

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.4.1	Meter shall support system functionality described in the specification. Advanced metering functionality that is not available to the head-end over the AMI network is not to be considered when identifying compliance.			
8.4.2	Meter shall be able to receive encrypted messages via the physical port, the AMI system, and if available, an RF tool as part of the AMI system.			
8.4.3	All supplied integrated meter types shall support auto registration to the AMI system. Proposer shall describe diagnostics information provided by the meter upon meter installation. Proposer is asked to describe the process used during installation.			
8.4.4	Meter shall support time synchronization via the AMI system and locally.			
8.4.5	Meter shall support a method for local verification that it has successfully joined the AMI network.			
8.4.6	Meter shall include a mechanism to send an outage message after a user-definable interval when it has lost power. (Note that the state of Florida considers any interruption longer than 1 minute to be a sustained outage.) Proposer shall describe this functionality.			
8.4.7	Meter shall support remote meter configuration by way of the AMI network and RF field tool. Proposer shall describe the parameters that are programmable.			
8.4.8	Supplier shall provide the City with a file per meter shipment identifying all attributes for each electric meter shipped for installation into the Head End System.			
8.4.9	Describe the transmission of electricity meter data up to the head-end. Discuss frequency of reading and interval data transmission as well as events and alarms.			

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Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.4.10	System shall provide the ability to identify which phase (A,B,C) each meter is associated with.			

8.5 Electric Meter Alarms & Events

Table 8-5 presents the alarm and event requirements for the electric meters for the AMI deployment.

Table 8-5. Meter Alarms and Events

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.5.1	Provide a list of all meter events and alarms. Events and alarms shall be available and resettable via the AMI network, RF tool, and optical port if the meter is so equipped.			
8.5.2	Reverse Energy: The meter shall detect reverse power flow on an integrated meter programmed or operating as a non-net energy integrated meter or non-bidirectional integrated energy meter.			
8.5.3	Meter shall alarm on tilt.			
8.5.4	Meter shall alarm on tilt/outage combination indicative of meter removal from socket.			
8.5.5	Meter shall alarm on attempted magnetic tamper.			
8.5.6	Meter shall alarm if voltage is outside of set limits.			
8.5.7	For three-phase meters: The meter shall monitor per phase voltages, currents, and phase angles to detect incorrect polarity or incorrect phase sequencing.			
8.5.8	Specify additional meter alarms or functionality in the meter that the City may utilize.			

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9 AMI WATER METERS AND MODULES

Table 9-1 presents the water meter and AMI module requirements for the AMI deployment.

Table 9-1. AMI Water Meters and Modules

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.1	A 20-year battery life is required for all battery-powered field devices. Please note that this section applies not just to water meters: If your architecture includes other battery-powered devices, such as repeaters. 1. Describe all conditions on the 20-year warranty. 2. Provide the reading frequency that the battery life warranty is based on and other battery-life-impacting activities such as firmware updates, LP interval length, frequency of on-request reads, and (if available) remote disconnect/reconnect. 3. For the water meter communications module battery warranty, state the approach taken for a failed battery (replace module, module, register, etc.). 4. If module only, state the assumption for this, such as if there will be cut wires and splice in a new module. (Cut wires and splicing *are not* preferred. A module that connects to the meter register with a waterproof inductive coupling or a highly water-resistant connection such as a Nicor *is* preferred.)			
9.2	Water meter bodies should be warranted for a minimum of 10 years for full replacement with a 5-to-10-year period starting in year 11, where the warranty declines on a prorated basis.			
9.3	The Proposer will provide the material of the proposed meter body (e.g., brass, poly, etc.).			
9.4	The Proposer shall provide displacement and non-displacement (e.g., electromagnetic, ultrasonic) metering options in the pricing sheet.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.5	Battery life and status information must be transmitted to the head-end. Describe the battery life information transmitted by the water module, including the transmission frequency.			
9.6	Water meter nameplates should be customizable. Describe how meter/module labels or nameplates can be customized for the City as part of this project.			
9.7	AMI modules shall also be labeled with the manufacturer's name, ID number, date of manufacture, and any required FCC labeling.			
9.8	The City has six bulk metering points in its water system. The Supplier shall provide an appropriate bulk metering solution for water balance computations, invoice validation, and net leak detection, but not for billing. The solution shall provide appropriate scaling or translation to result in a metered quantity delivered to the head end system. Proposer shall provide pricing for the proposed solution in the pricing sheet.			
9.9	The City has approximately 500 newer Kamstrup FlowIQ 2100 and 3101 ultrasonic meters with the iTron cable/plug that it would like to retrofit with an AMI communication module. Proposer to provide a solution to allow these meters to be read by the proposed AMI system. Provide what quantities and features your proposed AMI solution can retrieve from the meter.			
9.10	Residential meters shall be available from at least two different manufacturers. Identify which manufacturers' meters are supported.			
9.11	The meter/module must be capable of accepting a tamper seal.			
9.12	The module's firmware must be remotely upgradable from the head-end system and handheld devices. Describe all remote firmware and configuration capabilities of the water modules. Describe the process to affect these updates.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.13	Modules shall support 60-minute interval recording periods. Describe the duration of interval data (in months and days) that can be stored.			
9.14	On-request reads from the head-end to the water meter must be possible. Describe on-request water read functionality and time for data to be returned to the head-end.			
9.15	On-request reads shall obtain an up-to-the-minute reading from the meter. If this requirement is not met, state where the reading is obtained (e.g., communication module, data concentrator, etc.) and the maximum age of the reading under normal operating conditions.			
9.16	Describe the approach to starting to read for meter and register changes or how old meter reads are handled if new registers start at zero.			
9.17	The module shall support the collection of register interval data from all meters.			
9.18	The module shall support the collection of water pressure and temperature readings from meters/devices that provide it.			
9.19	Water meters and modules shall transmit digital register reads rather than pulse counts.			
9.20	Water meters/modules must provide leak detection. Describe this detection capability.			
9.21	Water modules shall be readable by the head-end system and the Supplier-recommended handheld devices.			
9.22	Water modules shall be synced to within 30 seconds of system time. Interval data must be time-stamped. Elapsed time is not acceptable.			
9.23	Water modules shall transmit a cut wire occurrence.			
9.24	Describe all water disconnect/reconnect capabilities available, including meter sizes on which this feature is available, whether the valve is integral to the meter or separate,			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	impact on box size, and flow control options provided (e.g., on, off, restricted flow)			
9.25	Describe the network topology for water meters—star connection, pt-to-pt, mesh through meter, etc.			
9.26	Does the meter manufacturer require a first-article customer approval process? If so, describe that process.			
9.27	Describe all data transmitted from water modules, including register data, interval data, events (be specific), and alarms (be specific).			
9.28	Describe all backflow indication/prevention capabilities of the proposed water meters.			
9.29	Describe the data encryption provided by water modules.			
9.30	Describe the module antenna configuration and how through-the-lid mounting is accomplished.			
9.31	Describe the module battery replacement process, if any.			
9.32	Describe the minimum clearance needed between the top of the meter and the bottom of the box lid.			
9.33	Describe the transmission of water data up to the head-end. Discuss the frequency of reading and interval data transmission, as well as events and alarms.			
9.34	List all water meters that the Proposer's module is compatible with and specifically identify the proposed meters for this proposal.			
9.35	Provide the operating temperature range in degrees Fahrenheit for the water module.			
9.36	Specify additional alarms or functionality in the module that the City may use.			
9.37	Provide expected meter body lifetime per supported meter.			

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10 NON-METER DEVICES

The capabilities implied by the requirements in Table 10-1 are related to the AMI infrastructure and in support of possible plans by the City to support water balance, pressure, other sensory applications, etc., that may not be implemented in the early stages of the AMI conversion. However, these capabilities are of significant interest to the City.

Table 10-1. Non-Meter Devices

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
10.1	State the manufacturer of non-metering devices (e.g., pressure detection, leak detection, gateway devices) if different from the Proposer.			
10.2	Describe the data collection method offered (e.g., point-to-multipoint transceiver). Please provide the functionality of these devices and the installed base of each device type.			
10.3	Describe how the functionality of each non-metering device is supported at the system level.			
10.4	Indicate whether the devices UL Listed.			
10.5	System must support a load control device/solution that is minimally capable of interrupting one 30-amp device. This includes A/C units, hot water heaters, and pool pumps. Describe this functionality and the numbers of LC devices per premise that can be controlled.			
10.6	Describe the electrical characteristics of LC devices including their amperage interrupt capability, tamper detection, etc.			
10.7	LC functionality shall include a cold load pickup strategy such as randomization over a defined time frame. Describe this and other load management functions offered.			
10.8	For a specified load control device, describe any customer override capabilities for LC actions and how the system is made aware of and processes those actions.			
10.9	Describe the extent to which non-metering devices have been incorporated into the AMI head-end system.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
10.10	Describe any pricing level interaction capability from customer to the City including demand response, CPP, etc.			
10.11	Describe any programmable controllable thermostat capabilities provided by the AMI system.			
10.12	Describe any Home Area Network devices and support, and the network technology/protocols used to communicate with these devices. If your solution relies on Zigbee to communicate with HAN devices, indicate whether the residential meters proposed include Zigbee capability or if a special meter or gateway would be required.			
10.13	Describe the proposer's support for smart streetlight controllers at both the system and hardware levels, including visibility and availability of energy and power quality data from streetlight controllers in the AMI head-end. Provide a list of streetlights (manufacturer and model) that can be retrofitted with proposer's streetlight module.			
10.14	Identify all distribution automation devices supported (e.g., FCI, transformer monitor, cap bank controllers, or recloser interface), protocol used (DNP 5/IEC 61850, etc.), and how these operate on the proposer's system.			
10.15	Provide the operating temperature range in degrees Fahrenheit for each non-metering device offered.			
10.16	Describe the communications approach from the AMI system to each non-meter device supported and discuss how or whether these devices participate in overall AMI system communications in roles such as repeaters, etc.			
10.17	Describe the number of proposed non-meter devices, the purpose of each, and the expected maintenance activities required by the City for each.			

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11 COMMUNICATIONS

The requirements in Table 11-1 are related to AMI communications. The City assumes the Proposer will offer an RF-based or cellular solution.

Table 11-1. Communications

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.1	Based on facility location data supplied by the City, the Proposer shall provide an RF coverage plan and maps that demonstrate adequate communication to all devices to address all requirements in this proposal specification. Device types must be visually different (i.e., by color, shape, etc.) in the Proposer's RF coverage plan.			
11.2	The Supplier shall provide a cellular endpoint-based option for the AMI solution and total ownership cost over 10 years.			
11.3	The Supplier shall provide a non-cellular endpoint-based option with collector/radio for the AMI solution and total cost of ownership over 10 years.			
11.4	Based on the proposed network design, all meters must have a redundant communication path that will automatically be used if their normal communication path fails or is unavailable. Explain how this is achieved.			
11.5	Identify the type of network topology used (e.g., mesh, point-to-multipoint), frequencies used, and transmit power.			
11.6	Network transceiver and/or network repeater devices may be required. The Proposer shall state any such requirement for its system and include pricing for the proposed devices. All devices required beyond this number to ensure acceptable system performance shall be provided free of charge by the Supplier to the City, including installation.			
11.7	Describe the Proposer's backhaul plan.			
11.8	The Supplier shall provide as-built network installation location information in shapefiles capable of being loaded into a GIS system.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.9	Describe the remote firmware update process, including typical circumstances requiring an upgrade (firmware bug, feature enhancement, etc.). Include all remotely upgradable devices. If devices are not remotely upgradable, describe how local updates are performed.			
11.10	Describe the process ensuring no metering data loss during a firmware update.			
11.11	Network components combined (meters and communications devices) shall be able to retain at least 30 days of data. Describe how this is accomplished. Note that this is a storage requirement for the deployed network and metering equipment. Further longer-term system-level retention requirements are included below.			
11.12	The network must provide 100% coverage with two-way communication for every meter and device.			
11.13	The Supplier must submit network design and planned equipment locations, mounting details, and power requirements to the City for approval before installation. Identify all supporting work to be performed by the City.			
11.14	The Proposer must confirm that it understands that the Supplier is responsible for all site RF surveys when/if they are needed.			
11.15	The Supplier will participate in and lead, if appropriate, any design and/or status reviews during network and meter deployment.			
11.16	All network communication equipment shall comply with all applicable FCC regulations.			
11.17	All outdoor enclosures shall meet NEMA 4 and be lockable. Door-open contacts shall be included that will cause an alarm at the head-end system.			
11.18	Describe the radiation exposure for each piece of network equipment, including meters for installers and customers.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.19	Describe all network equipment battery backup requirements or recommendations. For equipment with a backup power source, state how long the device will remain operational without A/C power (assuming a continuous outage).			
11.20	Any network device, other than water meters, must be able to automatically recharge the battery when operating using A/C power.			
11.21	A network battery life span of at least 5 years is required. The Proposer shall define the battery maintenance cycle for their solution. Network equipment must send battery status and low battery alarm information to the head-end system.			
11.22	Describe all equipment with solar and battery powering options.			
11.23	List the installation/mounting options available for each type of network device.			
11.24	The Supplier shall be responsible for programming network communication equipment before field installation.			
11.25	If the Proposer's system is based on a point-to-multi-point (star) configuration, discuss how bandwidth problems can be mitigated by forcing blocks of meters to register to an assigned take-out point rather than all meters preferentially seeking a single take-out point.			
11.26	Describe any communications settings available to allow prioritization of various packet types such as DA messages to ensure they receive preferential treatment for delivery.			
11.27	Describe all commissioning, test, and calibration files provided by the Proposer for each type of communicating device, including meters. The Supplier will be required to import these into the head-end system. Describe in detail the contents of each of these file types.			
11.28	Describe all remote mount antenna requirements/options for each network device type, including meters.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.29	All network and field devices (including metering endpoints) associated with the Proposer's system must not interfere with the City's water SCADA system. **This requirement is mandatory.** Frequencies for these systems are as follows: SCADA system for electric uses cellular routers that are 4G LTE and is IP-based utilizing bands B2, B4, B5, B12, B13, B14, B77, and B71. SCADA system for WWTP / WTP is protected with some being cellular based and some internet based. The guarded SCADA frequency range for the WWTP / WTP is 2400 HZ.			
11.30	Describe the timing for all communication devices and meters (electric and water) to return to normal after recovering from a system-wide communication network outage.			

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12 SYSTEM TEST FIXTURE

The City intends to implement a system test fixture/board. The intended usage of this board includes initial pre-field deployment system testing, new firmware release testing, demonstrations to local government, training for City staff, and public demonstrations.

To support these needs, the Proposer shall provide a preliminary design of such a board and pricing to construct and deliver it to the City before training and field deployment. The City is not looking for a commercially available meter test fixture for accuracy testing. The proposed solution must:

a. Be a deliverable that is purchased and remains with City post project implementation
b. Be designed for the purposes of testing the operation of the meters and the overall AMI system. The test fixture is not intended to be used for meter accuracy testing.
c. Be portable with wheel mounting preferred
d. Be able to support include at least one of each type of proposed device (meter and all other ancillary equipment) as part of the project. It is anticipated that a separate test fixture be utilized for water and another separate fixture for electric given the differences in implementation.
e. For water: Be able to generate water flow through the meters in both directions as well as other events and alarms supported by the meters.
f. For electric: Be able to have visual indicators indicating on/off (e.g. light bulb for confirming connect/disconnect) or other confirmations of operations.

Table 12-1 details the requirements for the Meter System Test Fixture. **The provision of a Meter System Test Fixture is a mandatory requirement.**

Table 12-1. Meter System Test Fixture

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
12.1	As described above, a System Test Fixture is required that meets or exceeds required elements. Please describe the proposed system test fixture in detail sufficient to understand the intended offering.			
12.2	The system test fixture shall be suitable for in-depth training of City personnel.			
12.3	The system test fixture shall be able to be read by the to-be-deployed network and head-end system and provide a platform to demonstrate system capabilities in various venues such as City Commission meetings or customer engagement “AMI Day” at City offices.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
12.4	The system test fixture shall support system testing and potential testing of new firmware releases before field installation.			
12.5	The system test fixture shall support billing and other integration testing before field rollout.			
12.6	The system test fixture shall support testing new third-party devices offered by the Supplier and their sub-suppliers.			
12.7	The system test fixture shall contain at least one of each type of field device to be deployed as part of the project.			
12.8	Please list all additional smart devices to be included in the system test fixture.			

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13 SOFTWARE SYSTEMS

The system requirements in this section are broadly grouped by the system component where the capability would logically reside. However, the architecture of the Proposer's system should in no way be dictated by these sections. Rather, the functionality is specified in what is envisioned as one or more applications embodied in the managed services offering, regardless of which managed services component provides the capability.

13.1 Managed Services

As depicted in Figure 1-4, the AMI head-end, MDM-lite, and customer portal are shown in separate boxes. This construct is for presentation purposes only. This RFP does not dictate the system architecture of the Proposer's offering. The Proposer will determine whether these functions are performed in separate physical servers, partitions in a virtual server, or otherwise. In many sections of this RFP, these systems are referred to separately. It is important to note that any functions described separately in this way are requirements regardless of the overall architecture. Any requirements for system security are fully applicable across all offerings by the Proposer. This example is just one of such broadly applicable requirements.

Table 13-1 presents the requirements for managed services.

Table 13-1. Managed Services

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.1	Detail the City's interaction process with managed services support via telephone, email, web portal, hours of support, etc. If 24/7 support is not provided as part of the standard managed services offering, state the options for upgrading to 24/7 support, including pricing.			
13.1.2	Describe the head-end system update process, the time durations to implement it, and the frequency of releases.			
13.1.3	Describe managed services data centers (primary and disaster recovery locations). Provide photographs of these facilities (inside and outside).			
13.1.4	Describe the disaster recovery process and the maximum time from system failure to recovery. Describe the point of recovery (last backup, yesterday, point of failure, etc.)			
13.1.5	Describe system backup processes, scope, and recovery request process.			
13.1.6	Describe and provide all applicable service-level agreements.			
13.1.7	Describe the system and field device software and firmware update processes and durations.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.8	Describe managed services staffing and hours of coverage.			
13.1.9	Describe trouble call response time commitments.			
13.1.10	Describe data center physical security and power security.			
13.1.11	Describe historical data center uptimes.			
13.1.12	The Supplier will ensure that all personally identifiable information (PII) regarding the City's customers will be protected from being released. At all times, ownership of any such data remains with the City.			
13.1.13	Describe the City's required efforts associated with the implementation of managed services. Include any point-to-point VPN or other requirements. The City will require assistance to implement this.			
13.1.14	The Supplier will notify the City of any security issues (physical or cyber) no later than the next business day after the Supplier becomes aware, including a description of the issue's resolution and any actions the City should take. Describe this process.			
13.1.15	The supplier shall have a notification process to inform the City of all software or firmware problems that the Supplier becomes aware of that may impact the City and provide a time frame for resolutions. Describe this process.			
13.1.16	Describe any backdoors in the managed services systems and how they are managed.			
13.1.17	The Supplier shall have a formal process for users to submit problem reports. The Proposer shall submit this process as part of their proposal.			
13.1.18	Describe all web browser versions supported. Web browsers must at least support SSL.			
13.1.19	The City prefers that all user interaction be web-based. If any thick clients are required, describe those and how installation and upgrades are managed.			
13.1.20	Maintenance shall be performed only during off-hours (11 PM to 6 AM Eastern time) unless under emergency.			
13.1.21	The Supplier shall notify the City of any available software or firmware updates to the AMI system and their recommendation on implementing each.			
13.1.22	The system must maintain an online set of water and electric metering-related data for 5 years. The data must be retained for the managed services contract's life and reloadable if needed for the City's data analysis. The City requires that all			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	system data be archived and provided to the City in a documented format that the City can maintain every calendar year. These archives must include all billing determinants provided by the system. Describe this process and the file format.			
13.1.23	The Supplier shall provide details on how service restoration after a major outage would be accomplished within 1 business day.			
13.1.24	The Supplier shall provide a pricing option for a test environment for the Head-end application with separate network device(s) to perform stand-alone testing using the supplied Meter System Test Fixture.			
13.1.25	The SaaS or Managed Services offering must be provided from a SOC 2 Type II certified data center(s).			

13.2 AMI Head-End System

These are the system requirements regardless of which managed services component provides the capability. Table 13-2 presents the AMI head-end software requirements.

Table 13-2. AMI Head-End Software

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.1	All head-end system interfaces will be accessible by commonly used web browsers (Chrome, Firefox, Edge, Safari, etc.) and support simultaneous users.			
13.2.2	Head-end system will support calculations of the City standard KPI indices including SAIDI, CAIDI, SAIFI, and MAIFI using the outage and blink data available in the system (monthly and with the ability to annualize). The system must provide standard reports whose data can be extracted to allow the City to easily calculate these KPI's. Supplier will coordinate the meter configuration during the project to ensure that settings that define momentary and sustained outage are consistent with the City's needs and regulatory definitions since Florida and IEE definitions of these parameters differ.			
13.2.3	Head-end system shall have the ability to report on outage occurrences and blink counts for all electric meters. Outage			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	notifications will be reported to the head-end within 1 minute of the occurrence for 99% of meters.			
13.2.4	The head-end system shall automatically retry missing billing reads and missing interval data.			
13.2.5	The head-end system must provide a user-configurable ability to send text messages and emails for selectable events and indications (e.g. outage/restoration). The Proposer shall provide a list of events for which this notification is possible for water meters, electric meters, and other network components and how they will be grouped or otherwise filtered. For each occurrence type, up to five media recipients shall be possible. It is required to be able to assign City recipient event notification emails and text numbers per water and electric meter account to support key account vigilance. These are City personnel notification processes. Individual customer notifications are included as part of the customer portal requirements. Describe these functionalities in detail.			
13.2.6	For outages, it is required that the City have the ability to set up text and/or email notifications for up to 5 city employees where they are aware of at least one outage on the system. This notification should contain all outages present at the time the message is sent. Sending a text and/or email per outage is not acceptable. Describe this functionality in detail.			
13.2.7	The head-end system time shall be synced to a network time server that is synced to a national standard.			
13.2.8	Time accuracy relative to system time: 1 minute for electric, 5 minutes for water.			
13.2.9	The head-end system shall support Standard Time and Daylight Savings Time.			
13.2.10	Firmware updates for individual, all, or groups of devices shall be possible. Describe these capabilities and the associated process.			
13.2.11	During the firmware download process: The head-end will provide a robust set of reports or displays to show the download status, estimated time to completion, all error conditions, and all other information needed to manage the firmware update process effectively. Firmware updates for all devices will be logged.			
13.2.12	Head-end system shall support the ability to turn off all radios in any electric meter. A handheld will be required to turn the radios back on. Describe these capabilities and the associated process.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.13	The head-end system shall support all interval data recording lengths and channel configurations available in meters.			
13.2.14	The head-end system must be able to identify and enforce the inability to disconnect accounts identified as "medical do not disconnect." Explain how this is achieved.			
13.2.15	The head-end system shall support reading all quantities available in meters, including but not limited to: • kWh (electric) • Var (electric) • Under the cover meter temperature (electric) • Last read. • Unit of measure. • Number of meter digits. • Device firmware version. • Disconnect switch status			
13.2.16	The head-end system will support the establishment of daily, weekly, or monthly billing schedules.			
13.2.17	The head-end system shall support other non-billing schedules to bring back items of interest to the City, such as service voltage, pressure readings or smart sensor data (like tank levels). Describe this capability and what water metering quantities (water and electric) can be so scheduled.			
13.2.18	The head-end system shall support on-request reads of any meter in the system. All meter data shall be returnable by such reads. **On-request read capability is a mandatory requirement for water and electricity meters.**			
13.2.19	Head-end system shall be able to perform an on-request demand reset for electric meters. Describe how this demand reset function works on a scheduled and on-request basis. Include a description of and the time sequence of any data brought back as part of a demand reset.			
13.2.20	Head-end system shall have the ability to confirm demand reset has occurred by examining demand reset count before and after the request. Describe how this confirmation occurs on the head-end system.			
13.2.21	Head-end system shall report on voltage threshold violations consistent with the thresholds available in electric meters.			
13.2.22	Head-end system shall detect and report time-stamped indications of all electric meter outages and restoration.			
13.2.23	Head-end system shall support all TOU functionality defined in Table 8-3, including modifying such settings.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.24	The system must provide a geospatial/map view of all devices on the communications network, which includes various device statuses via visual differentiation (color, etc.). Communications paths and health status should be included on these maps.			
13.2.25	Head-end system shall support pre-pay for electricity. Describe this pre-pay capability and any third-party relationships involved in your offering. (Note that the requirement for this RFP is to provide an AMI solution that is "pre-pay-ready". The utility intends to purchase a pre-pay application separately.)			
13.2.26	The Proposer shall provide a complete list of events and alarms supported by the head-end system and endpoints.			
13.2.27	Collecting metering data from deployed meters must be possible if the communications network is down. If there is a temporary failure or unavailability of all or a portion of the communications network, describe the backup process by which the City will gather meter reading data until repairs are made.			
13.2.28	The system shall provide reports to address the following: • Water meter low battery. • Electric meter low battery (if outage battery is used) • Meter configuration changed. • Meter errors. • Service Voltage (sags, swells, minimums, maximums, averages, etc.) • High flow, reverse flow, high/low pressure. • Tampers. • Battery status for all battery-backed network devices. • Counts of outages, blinks, and momentary interruptions			
13.2.29	The Proposer shall list available reports and capabilities in support of smart sensory devices (e.g., pressure, temperature, pH/water quality, and others as available). These capabilities will not be implemented in the initial AMI implementation but are part of the City's strategic roadmap.			
13.2.30	Discuss remote connect and disconnect capabilities via batch operations.			
13.2.31	Discuss remote connect and disconnect load side voltage detection and closure prevention.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.32	Disconnect switch status (open/closed/restricted flow-for water) shall be visually displayed on system displays.			
13.2.33	The head-end system shall support remote connect/disconnect status confirmation reads.			
13.2.34	Head-end system must support secure web-service calls from other systems to allow connect/reconnect operations. Describe these web services.			
13.2.35	The head-end system shall provide the ability to perform on-request reads of events and alarms (in addition to events automatically alarming up to the head-end system).			
13.2.36	Describe configurable parameters in water and electric meters and how changes to the parameters are implemented. Include changes to TOU schedules and seasons, LP interval, demand reset behavior, Sag & Swell limits, etc.			
13.2.37	Describe the system's firmware update process from end to end, including any retries, commit processes, rollback processes, etc.			
13.2.38	The head-end system shall not store sensitive customer personally identifiable information such as Social Security numbers, credit card numbers, etc. Name and address are acceptable if no other personally identifiable information is associated with them.			
13.2.39	No data may be released or sold from the City system.			
13.2.40	Hardware, software, and firmware configurations: The system shall maintain and provide current identification of hardware versions, firmware, and software for all AMI system components.			
13.2.41	Duplicate meter serial numbers: The system shall identify the premises where the same serial number has been used more than once.			
13.2.42	Network component status: The system shall report on the health of the Supplier's network components, including memory errors, battery status, signal strength, connection errors, redundancy, and whether the network components pass or fail the Supplier's operating specifications.			
13.2.43	Describe the confirmation process for any control action or customer messaging from the system.			
13.2.44	Provide a detailed product roadmap showing any enhancements that can be incorporated into the proposed AMI system.			

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13.3 Meter Data Management (Lite)

These are all system requirements regardless of which managed services component provides the capability. Table 13-3 presents meter data management requirements.

Table 13-3. Meter Data Management

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.1	The system must support loading and maintaining GPS coordinate data for water meters and other field-deployed devices in decimal degrees to a six-decimal resolution.			
13.3.2	Preconfigured reports for examining meter data shall be provided. Describe these reports.			
13.3.3	The system must include water and energy balance analytics and dashboards. Please describe.			
13.3.4	The system must manage the database of meter readings and other related information about the meters and the AMI system.			
13.3.5	The system must be able to export data from reports in standard .CSV format.			
13.3.6	The system must provide a dashboard display that includes: • Peak usage. • Missed readings (excluding in-process missed read retrieval and missing LP gap fill-in processes). • Usage comparisons for like time periods. • Alerts and alarms. • Current status, including current read, disconnect status, etc.			
13.3.7	The system must provide validation, editing, and estimation (VEE) capability for water and electric meter reads to identify suspicious reads, allow City personnel to override a billing value, and estimate a billing read based on previous like time periods.			
13.3.8	The system shall support analytic leak and burst pipe detection with a definable rule set for water interval reads over various time periods, including sudden sustained high reads.			
13.3.9	The system shall be able to report on user-defined low or no flow conditions for water and electric meters over a specified time.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.10	The system shall be able to report on water and electric reverse flow conditions.			
13.3.11	The system shall be able to report leaks.			
13.3.12	The system shall support reporting on user-defined conditions considered abnormally high/low water consumption over a specified time.			
13.3.13	The system shall support enhanced analytics capabilities to identify non-technical loss (e.g., tampering/theft, energy loss or diversion, suspicious accounts based on usage patterns, and aggregated meter consumption comparisons).			
13.3.14	System shall support enhanced analytics capabilities to allow for monitoring and identification of under-utilized, over-utilized, or at-risk transformers throughout the distribution system (kVA utilization, loss of life and remaining life computations)			
13.3.15	System shall support enhanced analytics capabilities to allow for outage and reliability analysis and reporting including Outage/Restoration, and Reliability Computations (SAIDI, SAIFI, CAIDI, CAIFI, MAIDI, MAIFI)			
13.3.16	System shall support enhanced analytics capabilities to allow for demand and capacity monitoring (e.g., customer demand contributions, demand response impacts)			
13.3.17	System shall support enhanced analytics capabilities to allow for monitoring of power quality (e.g., voltage monitoring, voltage optimization, CVR/CVO, outage, and restoration.			
13.3.18	Describe how the proposed solution can provide load forecast using data from the AMI system for all meters in the system with identified EV and/or PV presence behind the meter. Does the system support KPI's to track changes in customer adoption of EV charging using data from the AMI system. Does the system provide KPI's to track changes in customer PV installations using data from the AMI system			
13.3.19	MDM Lite Functionality: Describe the MDM Lite functionality offered by your system. This description should address functions like system water balance support, multiple meter LP data aggregation for load studies, theft detection through pattern recognition such as an outage followed by reduced consumption, etc. Also, provide information on what your other municipal customers do with this MDM functionality.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.20	The system must support display of meteorological data such as temperature, dew point temperature, and rainfall. The data must be displayed in conjunction with water usage reports.			

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13.4 Outage/Restoration Information System

The City currently has limited outage notification or visualization capabilities. As shown in Table 13-4, the City is not seeking a full outage management system in the traditional sense of the term in which the system manages outages by issuing work orders, etc. and tends to be very expensive and requires significant resources to maintain electric topology, etc. The City is seeking an outage notification and information system that includes geospatial visualization of outages and restorations, thus providing the bulk of the information needed without the noted drawbacks.

These are all system requirements regardless of which managed services component provides the capability. Table 13-4 presents a summary of the Outage/Restoration IS requirements.

Table 13-4. Outage/Restoration Information System

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.4.1	At a minimum, system must provide outage/restoration visualization using a map format (not full outage management functionality).			
13.4.2	System must provide the ability to ping the electric meter from a map format to confirm meter is still in an outage.			
13.4.3	System must provide per meter email and texting capabilities on outage and restoration described in Table 13-2. These texts must be able to be different for various accounts and cannot be global in nature such that all outages are sent to one text number.			
13.4.4	System must provide the ability for the City to receive notification to multiple text numbers to allow them to be aware that they have an outage on the system without being overrun with text messages from each meter. This functionality should be configurable to allow the City to configure the number of outages that must occur before this text is triggered. Describe in detail how this requirement is implemented in your system.			
13.4.5	The head-end system shall report on outages (blink, momentary, and sustained). These outage types shall be configurable parameters by the City that define power loss duration for each event type. (Note that the state of Florida considers any interruption longer than 1 minute to be a sustained outage.) Describe these blink and outage parameters and how these events are reported.			

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13.5 Customer Portal

One of the AMI system's key features is allowing consumers to view their information. Table 13-5 presents portal requirements. The City intends to use the Tyler ERP Pro customer portal. However, the City would like to evaluate a single sign-on link to the AMI system customer web portal provided as part of the Proposer's solution.

Table 13-5. Customer Portal

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.1	The Proposer shall include a City customer web portal as a part of their solution.			
13.5.2	Describe all mobile application extensions that may be available on this portal.			
13.5.3	The customer web portal software shall allow the City's customers to initialize a new portal account using their addresses, City billing account numbers and the amount of the last payment received. Initializing a new customer account shall require no involvement of City staff.			
13.5.4	The customer web portal's functionality shall be available for water and electric services.			
13.5.5	The portal must have the ability to display customer data, including: • Consumption and cost graphs for the past 12 months. (Data must be retrieved from the City's CIS system.) • Hourly (or as set in meters) interval readings for water or electric over the past 6 months. • Current consumption since the last billing for water and electric (Billing date information must be retrieved from the City's CIS system). • Billing history report for the last 12 months. (Billing information must be retrieved from the City's CIS system.) • High usage periods (based on user-definable limit). • Leak indication.			
13.5.6	The customer web portal software shall allow customers to set up accounts using an e-mail, cell phone number, username, and password.			
13.5.7	The customer web portal shall include provisions for customers to reset or retrieve their passwords and/or usernames without City involvement.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.8	The customer web portal shall include the ability for the City to reset a customer's password to a default that the customer must reset on the next login.			
13.5.9	The customer web portal shall support Multi-Factor authentication as part of the account login process.			
13.5.10	The customer web portal must support the display of meteorological data such as temperature, dew point temperature, and rainfall. The data must be displayed in conjunction with water and electric usage reports.			
13.5.11	The customer web portal shall include the ability for customers to retrieve their current water or electric meter readings via a request to the AMI head-end.			
13.5.12	The customer web portal shall be able to make bill comparisons for a customer's neighbors. This shall be based on latitude and longitude (lat/lon) to determine the "nearness" of other customers. A provision must be made to exclude immediate neighbors based on lat/lon to avoid any potential disclosure of personally identifiable information. The Proposer shall describe this functionality in detail.			
13.5.13	The portal shall allow customers to receive notifications of a subset of system event messages. At a minimum, outage or leak customer notifications must be selectable by individual customers through the portal interface. Notification of specific events shall be selectable per customer. The notification mechanism shall be customer-selectable (text and/or email). Describe this functionality for water and electric meters and define what events are configurable.			
13.5.14	The customer web portal shall display City-entered customer notification information on a per-customer or broadcast basis.			
13.5.15	The customer web portal shall allow customers to use water and electric interval data to perform "what if" bill comparisons against alternate consumption usage. The portal admin function shall include the City's ability to enter alternate rates. No rate development activity is in the Supplier's scope.			
13.5.16	The customer web portal shall include single sign-on integration to the City's existing web portal.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.17	The Supplier shall interface with the City's customer portal.			

13.6 User Interfaces

Proposer will provide screenshots from the software user interface showing how a system user would view each use case listed in Table 13-6. Include comments on how each of these screens would be accessed.

Table 13-6. User Interface Screen Shots Requested

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.6.1	Disconnect/reconnect management			
13.6.2	Outage report			
13.6.3	Meter read rate performance			
13.6.4	Network equipment issues			
13.6.5	Leak summary			
13.6.6	Alarms/events			
13.6.7	Dashboard-level view of critical system information			
13.6.8	Customer portal screen showing usage history and other customer-relevant information			

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13.7 Documentation

Table 13-7 presents an overview of the required documentation for the project execution.

Table 13-7. Required Documentation for Project Execution

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.7.1	The Supplier shall provide a Microsoft Visio system diagram of the plan, from head-end system to field devices. An "as-built" update of this diagram will be required before project closure.			
13.7.2	The Supplier shall provide a list of all documentation submitted to the City during the project and as a part of training.			

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14 CUSTOMER IT SYSTEMS INTEGRATION

Table 14-1 presents a summary of the IT system integration requirements.

Table 14-1. Customer IT System Integration Requirements Summary

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
14.1	The Supplier shall provide the appropriate software integration to automatically transfer appropriate data to and from the billing and CIS. The City's CIS is a Tyler ERP Pro system. All licenses required to use the Supplier-provided integration software will be provided to the City by the Supplier.			
14.2	The Supplier shall provide the appropriate software integration to implement any other functionality described herein.			
14.3	The system must interface with the City's Tyler ERP Pro System to provide an equivalent set of billing inputs to Tyler ERP Pro with minimal disruption to existing City processes. **This is a mandatory requirement.** Describe in detail how this integration will be achieved.			
14.4	The Supplier will be responsible for integrating their installation contractors Work Order Management System (WOMS) with the City's CIS System for meter exchanges with minimal disruption to existing City processes. This integration is only for the field deployment phase of the project. **This is a mandatory requirement.** Describe in detail how this integration will be achieved.			
14.5	The existing City metering and billing process flow is shown in Figure 1-3, and the anticipated flow during and after this project is shown in Figure 1-4. The Proposer shall describe how 1) its WOMS fits into this plan, 2) individual installations are managed, and 3) the data flows back to the AMI head-end system and the City's Tyler ERP Pro System.			
14.6	The existing Tyler ERP Pro System must remain fully functional during the rollout. Describe how the Proposer will support this need and ensure a smooth transition to full AMI billing operations with meters being removed and replaced daily.			
14.7	The Supplier will provide an integration to the City's Customer Portal (Tyler ERP Pro Smart Meter Access).			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
14.8	The Supplier will provide an integration of lat/lon data gathered by the meter installer into the Tyler ERP Pro system or other geolocation system of record chosen by the City.			
14.9	Proposer to include any recommended integrations for Distribution Automation and SCADA capabilities.			

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15 SECURITY

The Supplier must ensure that all devices within the managed services platform, network equipment, meters, and other field-deployed equipment are sufficiently protected from malicious attacks and unintended cyber and physical events that threaten the core purpose of the service. Specifically, the system must:

- Ensure sufficient information availability regarding a security-related event.
- Ensure confidentiality of the information regarding security services.
- Prevent a security incident from compromising the safety of personnel or stakeholders.
- Avoid the AMI platform or meters from being exploited as a "stepping stone" or conduit for attacks on end-users, external service providers (e.g., cell phone networks), or any other interconnected entity.
- Provide adequate evidence to support confidence and trust in the process, including the accuracy of billing statements.

Minimizing the likelihood of material loss to the City and its stakeholders must also be addressed in the context of Supplier responsibilities and accountabilities. Examples of such considerations include loss of trust/reputation, theft of money or services, "gaming" (or modifying, deleting, or otherwise altering information), privacy violations, hijacking control of a neighbor's equipment, and physical tampering, among other considerations.

Table 15-1 presents an overview of the system security requirements.

Table 15-1. Security System Requirements Overview

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.1	The entire network shall have an overall security scheme from the AMI head-end system through meters and other field devices. Please describe this scheme.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.2	Over-the-air security is required for all system components, including head-end, network components, backhaul communications, meters, and field devices (handhelds, etc.). Please describe the encryption method, key management process, related functions, and applicable standards for each system and device. While NERC CIP compliance is not currently a City requirement, the City would like security across the system to be NERC CIP compliant. Describe the level of such compliance provided.			
15.3	Security is required for public-facing applications, such as customer usage/profile data. Please describe the encryption method, key management process, related functions, and applicable standards for each system and device.			
15.4	For any other devices such as thermostats, streetlights, etc. included in the proposal, security is required. Please describe for each system and device the encryption method used, key management process, and any other related functions and any applicable standards.			
15.5	Is a security maintenance program in place? If so, describe the frequency of key updates, password updates, etc. Describe actions the City must take to maintain security, such as staff password management, customer portal account password management, etc.			
15.6	Describe third-party penetration testing performed on the system hardware, firmware, and software included in your proposal. Please state, when completed, any critical findings and frequency at which such testing is repeated. Also, describe how this testing was conducted and how often it is repeated.			
15.7	If a security event is detected, a process must exist to notify the City and support any customer questions/concerns. Describe this process.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.8	Has a security issue forced a component or system update in the past 12 months? If yes, describe that incident and the response.			
15.9	For managed services, please detail the location of servers, backup systems, and associated security plans—cyber and physical.			
15.10	Role-based security must be implemented to allow the City to restrict functionalities to various levels of its personnel to prevent unauthorized activities. An example of this is the water meter disconnect. This ability and other such critical functions must be able to be restricted by City-defined roles.			

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16 SYSTEM PERFORMANCE

Table 16-1 presents system performance requirements.

Table 16-1. System Performance

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
General				
16.1	Excluding planned outages for maintenance, system operational availability shall be 99.9%.			
16.2	Describe all occurrences that could cause communications degradation and affect required read success rates and the percentage of bandwidth loss expected for each occurrence. This includes environmental issues such as rain, seasonal foliage changes, etc.			
16.3	The hosted AMI network shall be monitored for performance, with regular reports to the City of read success and other critical KPIs. Describe monitoring and reporting of the AMI network performance.			
Billing Demand Reads				
16.4	Loss of any previous demand and consumption registers for demand meters shall be 0%. This may be achieved by retries that read previous demand registers if needed but no loss of demand data shall occur. Describe your electric meter demand reset and read process that ensures this level of performance. This requirement also applies to any meters that are configured for TOU with demand.			
Register and Load Profile (LP Interval) Reads				
16.5	Ninety-eight percent of electric and water LP data shall be read daily and be available by 1 AM. This is required for intervals as short as 5 minutes for all meters.			
16.6	A retry strategy shall automatically collect missing reads, ensuring 100% of register and LP data for any given day are read within 3 days.			
On Request Reads				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.7	On-request reads from the head-end system for any metered or status quantity from any electric meters shall succeed in 10 seconds or less for 98% of attempts.			
16.8	For water meters, on-request reads shall succeed in 15 seconds or less for 98% of attempts. Describe the on-request read mechanics for water—values in real-time from the meter or last read value stored in a data concentrator or some other device.			
16.9	Low payload responses minimally including meter pings shall respond in 2 seconds or less 98% of the time.			
Disconnect / Reconnect				
16.10	Electric meter disconnect and reconnect requests shall occur after initiation with confirmation received within 30 seconds for 99% of requests. Any disconnect request must also return the current register read.			
16.11	Water meter disconnect and reconnect requests shall occur after initiation, with confirmation received within 1 minute for 99% of requests. Any disconnect request must also return the current register read.			
Outage/Restoration Information				
16.12	Individual electric meter outage and/or restoration shall be reported to the head-end system and viewable on the UI within 1 minute for 99% of occurrences.			
16.13	Outages and/or restorations including 200 meters or less shall all be reported to the head-end system and viewable on the UI within 1 minute for 99% of the affected meters.			
16.14	Large scale outages and/or restorations including up to the entire the City electric meter population shall be reported to the head-end system and viewable on the UI within 5 minutes for 99% of the affected meters.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.15	Text messages and emails sent as part of the outage and restoration information system shall be initiated within 1 minute of the head-end system receiving the related notification.			
Over the Air Firmware Updates				
16.16	Field devices shall continue their normal operation during a firmware update. Once the new firmware image has been completely received, the system shall include the ability for the City to switch to the new image on an individual device or group of devices. The download should take no more than 1 day per device, 2 weeks for all devices, and the switch should take less than 5 minutes.			
System Scalability				
16.17	System must be scalable to continue to satisfy the City's future needs throughout the managed services contract period. While no DA devices are planned to this point in the project, support for DA devices identified by proposer in numbers typical for a utility the size of the City must be supported in the future without degrading any of the system functionality implemented. Provide confirmation the proposed system meets this requirement and provide the assumptions made including number of DA devices assumed, type of devices and network bandwidth requirements for each.			

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17 FIELD INSTALLATION AND WORK ORDER MANAGEMENT SYSTEM

Field installation is a mandatory requirement. Proposals that do not include installation will be disqualified.

17.1 General

Table 17-1 presents the General requirements for the project.

Table 17-1. General Project Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.1.1	Identify and describe the Proposer's prior experience with the planned installation subcontractor.			
17.1.2	Identify and explain any constraints or preferences the Proposer has regarding the order of installation of field devices (e.g., electric meters before water meters).			
17.1.3	The City will supply a list of VIPs to the Supplier's installer. Also, there are no medical disconnects. The installer will consider these items when scheduling appointments and managing customers.			
17.1.4	Describe the personal protective equipment used by installers. Also, describe field practices and the safety processes to ensure equipment is maintained, checked, and adequate for safe usage.			
17.1.5	The Proposer shall discuss how a temporary installer stand-down requested by the City would be implemented and include pricing in the supplied Pricing sheet. The City reserves the right to issue a stand down at no cost due to excessive or significant safety violations.			
17.1.6	The City will supply fenced storage and limited offsite office space for the Supplier's installation subcontractor. Describe the installer's needs in this area.			
17.1.7	The Supplier shall ensure that its installation subcontractor is provided with all training and documentation related to the Supplier's products			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	needed to execute safe, high-quality installations of all devices.			
17.1.8	The Supplier or its subcontractor will supply all required field installation tools, including handhelds.			
17.1.9	Supplier will be responsible for resealing meters. Required seals and rings to be supplied by the City.			
17.1.10	The Supplier and its installation subcontractor shall use handhelds capable of scanning meter/module bar codes, and the WOMS must include processes that ensure that the bar code of the installed meter/module is scanned post-installation such that the data exported to the City's billing system is ensured to contain the correct meter to customer correlation. For water meters, this process must also ensure proper correlation of the meter module serial number to the water meter body serial number.			
17.1.11	The City's water account billing is organized into five billing cycle periods with fourteen manual reading routes. The Supplier must work with the City to develop a strategy to avoid billing interference during installation. This may or may not require a billing blackout window. The Proposer shall provide its initial input to this approach as a part of their proposal.			
17.1.12	Handheld devices must be secure. Describe the security features enabled in installer handhelds.			
17.1.13	Installers shall use a mobile work-order management system to manage the meter deployment.			
17.1.14	The Installer WOMS system must retain access to all installation-related documentation (pictures, notes, account information, etc.) for 3 months after the conclusion of the deployment.			
17.1.15	Describe the integration process for establishing data exchange between the proposed WOMS system and the City's CIS system and ensuring these systems stay synchronized throughout the deployment process.			
17.1.16	The Proposer should describe the premise data that the City will need to provide per premise for use by the installer.			
17.1.17	The Proposer shall discuss how changes to the City's metering system data, such as new accounts, are			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	communicated to the Supplier so they can update their Workorder systems during the project.			
17.1.18	The Proposer shall describe all meter programming data requirements the City must supply.			
17.1.19	The Proposer shall include in the supplied pricing sheet the pricing for the appropriate number of City-owned handheld devices required for the meter population in this RFP for future meter programming and troubleshooting required by City field personnel.			
17.1.20	Describe in detail the field and material management processes, including: • Receipt inspection. • New installer onboarding/training so the installer can install independently. • Safe driver training and instruction. • Material issuance to installers. • Inventory control and periodic true-up. • Return material authorization. • Return to utility process—number of attempts, etc.			
17.1.21	Describe the proposed due diligence process to ensure accounts that are not exchanged upon the initial site visit (e.g. Can't Complete) are systematically processed to maximize installation success rate. Please include: • Number of site visits (minimum of 2) • Number of calls for scheduling appointments including number of after-hours calls (minimum of 3 calls with one being after-hours) • Proposed sequence of visits and calls including duration between events			
17.1.22	The installer must capture GPS coordinates for all field-installed devices and meters, upload them to the head-end system, and make them available for the outage visualization portal. Lat/Lon in decimal degrees is preferred, with a six-decimal place resolution collected at the point of the physical meter with accuracy dependent on the device used for collection. Sub-meter accuracy is not a requirement. Proposer to specify delivered accuracy			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	at the point of the meter. Preferred accuracy is within 2 meters of the physical meter.			
17.1.23	The Supplier shall submit all proposed attachments to City-owned infrastructure for prior approval.			
17.1.24	The Supplier's installer shall provide pricing in the supplied pricing sheet for meter box remediation, including: • Leaks upon arrival (notify the City). • Meter box damage. • Box too low or high. • Tree root intrusion. • Apparent tampering (notify the City). • Safety concerns. • Sites requiring repairs. • Obstructed meters. • Damaged electric service entrance			
17.1.25	The City desires that the installation portion of this project be turnkey to the extent possible. As such, the Proposer should include pricing in the supplied pricing sheet and other blocking conditions that the installer has encountered in other projects.			
17.1.26	The Supplier will provide pricing in the supplied pricing sheet for replacement lids and meter boxes to repair damaged units encountered during deployment. The City will provide the purchasing standard for these items.			
17.1.27	The Supplier will provide pricing in the supplied pricing sheet for remedying meter boxes substantially below or above grade.			
17.1.28	The Supplier will provide pricing in the supplied pricing sheet for remediation of any as-found damage/deficiencies in plumbing connections including materials.			
17.1.29	The Supplier will provide pricing in the supplied pricing sheet for remediation of meter yokes or risers that are encountered in need of repair. Bidder to provide replacement materials.			
17.1.30	Standard working hours for installation activities are Monday-Friday, 7 AM to 4 PM (last install). Fieldwork outside these hours, including weekends, must have prior approval from the City.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	While not preferred, weekend work can be supported if needed to remediate the project schedule.			
17.1.31	The Supplier to describe its Quality Assurance (QA) field installation audit process. Provide details demonstrating that audits are conducted by an independent auditor (prevent self-audit), randomization such that all installers are periodically audited, target audit percentages (% of installs) throughout the deployment period, and typical items that are audited as part of the process.			

17.2 Return Material Authorization (RMA) Process

Table 17-2 presents the return material authorization (RMA) process requirements.

Table 17-2. RMA Process Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.2.1	Describe the RMA process used during installation and afterward by the City. Describe the process for products under and out of warranty. Include each type of device provided by the Proposer.			
17.2.2	Describe the level of root cause analysis provided with each RMA returned to the City.			
17.2.3	Describe the historical RMA turnaround times for each device type proposed for this project.			

17.3 Call Center

Table 17-3 presents the call center requirements to support installation activity during the deployment period.

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Table 17-3. Call Center

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.3.1	Describe the call center process to be used during installation for appointment scheduling. This includes appointment scheduling from customer call-ins as well as call center staff pro-actively calling customers to setup appointments.			
17.3.2	Describe the customer complaint resolution from the initial call to the final issue resolution.			
17.3.3	Describe how this call center will be integrated with the City's call processes. Describe the ability to access call center records, including notes taken at calls.			
17.3.4	Describe hours of call center operation and support for after-hour calls (5 PM to 8 PM).			
17.3.5	Describe and provide any scripted responses used by the call center.			
17.3.6	Describe the call center recording process for recording calls between representatives and customers.			
17.3.7	Describe the call center issue escalation process.			
17.3.8	Describe your customer notification and scheduling process and the call center's role.			
17.3.9	Describe all planned door hanger notifications, their placement time, and their content.			
17.3.10	Describe all planned customer notification letters, the time they were sent, and their content.			
17.3.11	Call center personnel should have visibility into the WOMS field scheduling for informed customer discussions.			
17.3.12	Describe all call center audits and processes for corrective measures.			

17.4 Scrap Material

All scrap meters shall be handled by the Supplier and processed on a mutually agreed periodic basis. The Supplier's installer WOMS system will provide searchable access to adequate photos suitable for validating reads gathered as part of the installation process and will provide all such data for up to 3 months after deployment. This will allow the City ample time to settle billing disputes and allow for the immediate disposal of legacy scrap meters.

Table 17-4 presents the summary of scrap material requirements.

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Table 17-4. Scrap Materials

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.4.1	The Supplier will process all scrap meters and City-owned scrap materials (electric meters, water meters, water modules) on a mutually agreeable periodic basis. The City does not have a retention requirement for legacy meters prior to disposal. Picture documentation will be utilized to address any customer questions.			
17.4.2	All disposal permitting (including for batteries) is the Supplier's responsibility.			
17.4.3	The Supplier will provide an option for disposing of water and electric meters for a set administrative fee while providing remaining credits to the City for acceptable scrap value of materials. Credits would be offset from outstanding invoices.			

17.5 Personnel

Table 17-5 presents the project personnel requirements.

Table 17-5. Project Personnel Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.5.1	The Supplier will be responsible for the complete training of their installation contractor personnel. Describe that training, including safety and QA aspects. Describe the incremental qualifications required for transformer rated electric installers, larger commercial or compound water meters.			
17.5.2	Describe the field supervision structure envisioned for the installation phase of this project.			
17.5.3	The Supplier's installation subcontractor personnel must wear a picture identification badge that is visible to customers. Describe this badging process.			
17.5.4	The Supplier's installation subcontractor personnel must be uniformly dressed and drive vehicles easily identifiable with the company name and logo. Describe how this will be implemented. Project-			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	specific signage must be reviewed and approved by the City.			
17.5.5	Describe the installation subcontractor background and drug testing processes.			
17.5.6	The City shall have the right to deny installers access to City property and request their removal from the project for any reason.			
17.5.7	The Supplier's installation subcontractor personnel must be fluent in the English language.			

17.6 Safety and Environmental

Table 17-6 presents the Safety and Environmental requirements.

Table 17-6. Safety and Environmental Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.6.1	The safety of the City's customers, employees, and subcontractors is paramount. Personnel safety only supersedes environmental protection as a City concern. The City expects all Supplier and/or subcontract personnel on City property to observe the City's safety and environmental processes and all applicable state and federal rules and regulations.			
17.6.2	The Supplier's installation subcontractor shall have a documented safety training program to which all installers must adhere. Provide this document if a subcontractor has been selected.			
17.6.3	All safety issues or accidents during installation must be reported to pre-established/agreed City staff and organizations immediately. Provide this proposed process.			
17.6.4	The Supplier must provide the required safety training to all installers. The installer/Supplier shall provide OSHA 300 reporting. Training shall include, at a minimum, electrical and arc flash hazards.			
17.6.5	Describe your overall safety program, including training, protective gear/PPE issuance and maintenance, audits, reporting, etc.			
17.6.6	Describe your safety driving training program (e.g., Smith Driving or equivalent).			

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17.7 AMI Electric Meters

Table 17-7 presents AMI Electric Meter requirements during the deployment.

Table 17-7. AMI Electric Meters Requirements

Req'mnt #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.7.1	The Supplier's installation subcontractor shall follow a process to ensure electric AMI meters are readable from the head-end system post-installation before invoicing.			
17.7.2	The City has some net-metered customers now and expects more to be added. These customers will have a meter that is configured to read delivered and received energy. It is anticipated that all AMI electric meters will have the ability to meter delivered and received energy. How will any net-metered customers be identified to the installer such that delivered and received energy is delivered to the head-end and made available for billing? Proposer to describe process.			
17.7.3	Supplier shall be responsible for defining logistics and managing meter base repairs (e.g., meter box, lid, internal components, overhead service line, or other condition requiring repair). Supplier shall utilize a licensed local electrician to ensure that all work is completed to the City's standards.			

17.8 AMI Water Meters

Table 17-8 presents AMI water meter requirements during the deployment.

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Table 17-8. AMI Water Meters Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.8.1	The Supplier's installation subcontractor shall follow a process to ensure water AMI meters are readable from the head-end system post-installation before invoicing.			
17.8.2	The Supplier shall be responsible for defining logistics and managing all plumbing repairs encountered during installation (e.g., valves, broken pipes, etc.,) including materials. The Supplier shall use a locally licensed plumber to ensure all work is completed to the City's standards. Pricing for repairs shall be included in the supplied pricing sheet.			

17.9 Network

Table 17-9 presents AMI non-metering device requirements during the deployment.

Table 17-9. Non-Metering Network Device Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.9.1	The Supplier's installation subcontractor shall follow a process to ensure all non-metering network devices communicate with the head-end system post-installation before invoicing.			

17.10 Photos

Table 17-10 presents the requirements for photos during the installation process.

Table 17-10. Photo-Documentation Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.10.1	The installation subcontractor shall obtain before and after photos of all meters. The photos must include clear views of the meter register reading and serial number.			
17.10.2	The Proposer shall describe the file naming convention and process for capturing and storing these photos. All photos and other site data will be provided to the City via mutually agreeable secure media at the end of the project. They shall be			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	easily searchable and tied to an agreed account reference/key. The City shall have access to site photos during the rollout within 2 days of each installation.			
17.10.3	All photos will be date and time-stamped and geotagged.			
17.10.4	The installer will purge all City-specific data, including photos from its system and handhelds after the archive is delivered at the end of the project.			

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18 ACCEPTANCE TESTING

Table 18-1 presents the acceptance testing requirements.

Table 18-1. Acceptance Testing Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
18.1	The Supplier will submit a functional acceptance test plan to allow the City to verify the functionality defined in this specification, including integrations to City systems as specified herein.			
18.2	The meter system test fixture (defined previously) will be used to support functional acceptance testing. As such, the Supplier should ensure this board is populated with all devices needed to test the system fully.			
18.3	If special test equipment is needed to exercise a system function, the Supplier shall loan such devices to the City for the test duration.			
18.4	Functional acceptance testing will be performed successfully before deploying field hardware.			
18.5	The City intends that meters configured to their requirements, including nameplates, be tested as a part of the functional acceptance testing. The Supplier must ensure meters meeting City requirements are populated on the meter system test fixture.			
18.6	The Supplier will submit a final acceptance test plan to allow the City to verify the functionality defined in this specification, including integrations to City systems as specified herein, with most field meters deployed.			
18.7	Final system acceptance testing (SAT) will be conducted when 95% or more field meters are deployed. The test shall confirm the system's operational readiness and resolve any outstanding issues from the functional acceptance testing.			
18.8	As the pricing section notes, system payments are governed by passing the initial and final acceptance testing. Mutually agreed-upon percentage completions govern field device and installation costs.			

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19 TRAINING

Table 19-1 presents the project training requirements.

Table 19-1. Training Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
19.1	Please list all applicable training courses to be provided on-site, via the Internet and off-site locations. Also, list refresher training(s) and the number of trainees permitted. All training must be comprehensive enough to ensure City staff can effectively install all products offered and operate all systems and software. Topics that must be covered in the training include, but are not limited to, the following: • Meter installation. • Meter troubleshooting. • Meter configuration. • Handheld usage. • Network components. • An overview of the AMI product and head-end software. • System operations and troubleshooting, including interactions among endpoints and network devices, network devices, and the AMI head-end, as well as interaction between the AMI head-end and other system components such as MDM Lite, OMS, and customer portal. • Identification, management, and resolution of events and alarms. • Customer portal administration. • Tyler ERP Pro system integration usage.			
19.2	Provide a typical training schedule that contains lessons, suggested attendees, and durations.			
19.3	The number of trainees allowed for any or all types of training must be clearly defined in the Proposer's responses. Provide a training plan which outlines the requirements listed above. The plan should include facilities and/or resources required.			
19.4	At the end of training, maintenance personnel will understand proper installation and maintenance procedures, as well as the use of the AMI head-end software system.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
19.5	Describe the training materials to be provided for each course.			
19.6	Describe the availability of refresher training and future training for new employees.			

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20 CONTRACTUAL OBLIGATIONS AND WARRANTIES

Table 20-1 summarizes the contractual obligations and warranty requirements.

Table 20-1. Contractual Obligations and Warranty Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.1	Water meter/module water ingress failures are critical problems. The Proposer should identify any projects where they have experienced water meter/module failure that resulted from water ingress. Describe the situation(s) in detail, including how the issue was resolved for each project and how the product was modified due to this issue.			
20.2	Proposer to provide historical annualized hardware failure rates over the last 3 years for the 2S electric meter being proposed. Failure rate = (failed meters that were produced in year x)/ (total meters produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.3	If the electric meters use a separately manufactured communication module, Proposer to provide historical annualized hardware failure rates over the last 3 years for the communication module used in the proposed electric meters. Failure rate = (failed modules that were produced in year x)/ (total modules produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.4	The Proposer will provide historical annualized hardware failure rates over the last 3 years for the proposed residential water meter modules. Failure rate = (failed modules produced in year x)/ (total modules produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.5	The Proposer will provide historical annualized hardware failure rates over the last 3 years for proposed collection points and network communication equipment. Failure rate = (failed units produced in year x)/ (total units produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.6	Supplier shall provide a 5-year warranty on electric meters beginning at completion of installation.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.7	The Supplier shall provide a 20-year warranty on battery-powered devices such as water meter modules. Any warranty replacements under this warranty shall not involve wire splicing.			
20.8	The Supplier shall guarantee all system components are supported through the expected 10-year term of the managed services agreement.			
20.9	The Supplier shall guarantee all system components are backward compatible for up to 15 years.			
20.10	Proposer shall state terms and costs for optional extended warranties for each category of field-installed equipment in the supplied pricing worksheet.			
20.11	The Supplier shall be responsible for broad-based device failures exceeding 5% of any installed device category in a rolling 12-month period. The remedy shall be the complete replacement of all potentially affected devices, including field in/out costs for the affected population.			
20.12	Provide a detailed list of all subcontractors planned to service this implementation.			
20.13	The Proposer will describe what post-contract mobilization and end-of-project demobilization efforts look like.			
20.14	The Supplier will obtain any required FCC radio licenses on behalf of the City, which will be valid for 20 years. License pricing will be reflected in the base price or the monthly managed services fee.			
20.15	The Supplier will obtain all required sub-supplier software licenses on behalf of the City, which will be integrated with the pricing shown for their products.			
20.16	Any materials delivered to the City as a part of this project will be contracted as Freight on Board the City delivery point.			
20.17	The City reserves the right to sample test any lot shipment received.			
20.18	The data must always reside inside the United States for all systems and services provided.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.19	The AMI system shall not be interfered with by any other RF signals related to commonly deployed FCC-compliant technology (i.e., home electronics and home RF devices, such as wi-fi, appliances, cellular telecommunications devices, etc.). Resolution of such interference is 100% the Supplier's responsibility throughout the anticipated 10-year term of a managed services agreement.			
20.20	The Proposer shall provide a draft contract for deployment/managed services—a full unexecuted copy of a standard managed services and/or deployment contract. Please note that this requirement does not imply acceptance of any Proposer wording.			

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21 SCHEDULE

Table 21-1 defines the Proposer requirements for the project schedule.

Table 21-1. Project Schedule Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
21.1	The Proposer will provide a project plan, including an initial schedule showing relevant milestones and the City's initial planning elements, as shown in Table 21-2 and in line with the overall timeframes presented in Section 2.2. The Proposer's installation subcontractor and City staffing requirements should be identified in the schedule based on resource count and skill set.			
21.2	The project schedule will be refined with the selected Supplier as a part of contract negotiation.			

Table 21-2 defines the City's broad schedule plan for input to the Proposer's proposed project plan.

Table 21-2. Wauchula Conceptual Schedule Elements

Project Phase	Anticipated Activities
Kick-off meeting	• Contract deliverables review. • Overall project plan. • Communications plan. • Deployment plan. • Additional information requirements. • Review proposed KPI and metrics for deployment success. • Training plan. • Safety plan.
Meter system test fixture development	• System test fixture design. • System test fixture construction. • System test fixture usage in testing, training, SAT, and customer education.
System test planning	• Functional System Acceptance Test (FSAT) plan. • Final System Acceptance Test (SAT) plan.
Material logistics	• Discuss shipping and receipt plan. • Discuss the RMA process.

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Project Phase	Anticipated Activities
Customer engagement, stakeholder outreach, and education	• Town hall or public meeting materials. • Communications strategy and execution. • Collateral to address negative perceptions of AMI (e.g., privacy invasion). • The City (internal) touchpoints to ensure buy-in from across all staff that the new platform will impact. • Other change management tactics and strategies deemed appropriate.
Hardware specification and meter configuration	• Discuss configuration option decisions to be made by the City, including all meter labeling and configuration issues.
Systems integration	• Installation of meters and other hardware elements and integration of all proposed software with the City's existing platforms, with full testing of all critical functions (e.g., monthly billing) in preparation for acceptance testing. • Acceptance testing (initial and final) as described above in this RFP.
Managed services administration	• Administer all software and maintain reliable points of contact for City inquiries. • Other managed services offerings as defined herein (i.e., ad hoc services or analytics) or via the Supplier's suite of services.

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22 SUPPORT SERVICES

Table 22-1 lists the support service requirements.

Table 22-1. Support Services

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
22.1	The Supplier will provide adequate project support personnel for the project's duration, including a project manager (PM). The Proposer will describe the proposed organizational structure, identify individuals involved, and provide resumes and industry background information for those individuals. Proposer to describe anticipated on-site durations for their PM for various project phases. Please note that the City expects a significant PM presence on-site during FSAT. The City shall have the ability to approve the project manager and/or suggest a new project manager if required.			
22.2	The Supplier and/or its installation subcontractor are responsible for all files imported into the head-end system to allow the system to recognize and register meters as they are installed. Training for the City must include managing this process before and after project completion.			
22.3	The Supplier will support the City in redesigning business processes and define required/no longer required employee roles that can be repurposed related to the AMI program. The Proposer shall describe typical levels of engagement and support in this area.			
22.4	Several system integrations are required to be provided by the Supplier, as described in Section 14. The Proposer will include pricing for			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	these services in its AMI proposal in the supplied pricing sheet.			
22.5	The Supplier will provide adequate support should emergency conditions occur during field deployment (e.g., hurricane). The Proposer shall provide details on emergency response operations to maintain the City's business continuity.			

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23 PRICING

It is anticipated that the City will have very little growth during the 10-year term of the managed services contract—likely less than 30 percent, with an anticipated annual growth rate of 2%. All escalations in monthly service charges related to this growth must be clearly stated in the tables in this section.

All quoted prices must be provided in the supplied pricing worksheet and shall remain valid for a period of at least 6 months until finalized and governed by contractual terms. All requested options must be priced independently. The remaining subsections in this section include supplemental information that may aid in providing the requested pricing.

23.1 One-Time Pricing

23.1.1 AMI Software Integration

The Proposer will provide all associated professional services and related one-time fees for AMI software integration. Integrations should include:

- Basic billing integration with Tyler ERP Pro for monthly billing reads.
- Integration with the meter installer WOMS allowing daily meter changeouts in the Tyler ERP Pro system during the rollout. This integration will be temporary and only used during the field rollout.
- Integration of lat/lon data gathered by the meter installer into the Tyler ERP Pro system or other geolocation system of record chosen by the City.
- City intends to continue using Tyler ERP Pro Smart Meter Access customer portal but would like pricing on Proposer customer portal for evaluation.
- Proposer to include any recommended integrations for Distribution Automation and SCADA capabilities.

The Proposer will hold workshops with the City and Tyler to scope these integrations as needed. The City will be responsible for integration costs from Tyler, but the Proposer is responsible for its integration costs. **It is an absolute requirement that these integrations must be completed and tested as part of FSAT.**

The FSAT plan development is the Proposer's responsibility and will be reviewed by the City with resulting updates by the Proposer. This FSAT must functionally test all the capabilities identified in this RFP and all integrations developed by the Proposer. As previously noted, the Proposer must develop functional specifications for these integrations in collaboration with the City. Costs for this activity must be included in the integration costs (see below).

23.1.2 Infrastructure and Installation (Meters, Repeaters, Communications Hardware)

The Proposer shall provide one-time pricing for infrastructure and installation (meters, communications hardware). The City wants to evaluate positive displacement and non-displacement meters (e.g., electromagnetic, ultrasonic). The pricing sheet contains sections for each meter type. The quantities provided are based on a current CIS billing extract. Meter quantities will be updated at the time of placement of a PO with the successful Proposer.

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Pricing is also requested for installation of all meters and communication hardware, and all field remediation work as required. These items will be priced as individual options that can be independently evaluated.

23.1.3 Recommended Spare Parts

The Proposer shall provide a recommended list of spare parts (including pricing) that the City should consider having on-site throughout the system's life. This includes all devices provided by the Proposer or their sub-suppliers. Per-unit pricing is assumed to be as shown on the pricing form unless noted otherwise.

23.1.4 Meter System Test Fixture

Proposer shall provide pricing for a furnished meter system test fixture. The test fixture must accommodate one of each type of electric and water meter and non-metering device ordered on the project. Water flow will be provided in both directions to test reverse flow conditions. Electric meter test fixture must include light indicators to support confirmation of certain operations (e.g. connect/disconnect).

23.1.5 Miscellaneous

The Proposer will list one-time pricing for any other services or hardware required to fulfill the RFP's requirements. Please note the inclusion of the stand-down pricing as item 1, absent any other miscellaneous pricing.

All optional ad hoc analytical services that the Proposer can offer the City should be clearly explained with associated incremental pricing if the offered service affects other pricing, such as managed services.

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23.2 Recurring Pricing

23.2.1 Annual Managed Service Fees

The Proposer will provide all costs to the City for the managed service, including annual license fees. Proposers are encouraged to provide supportive comments or clarifications on the pricing structure in the spaces provided.

23.2.2 Network Managed Service Fees

The Proposer will provide all costs to the City for managing field-deployed non-metering devices (e.g., communication network devices), including any annual license fees, etc. Proposers are encouraged to provide supportive comments or clarifications on the pricing structure in the spaces provided.

23.3 Extended Warranty Pricing

The Proposer will provide pricing for extending the warranty on field-deployed devices. It is expected that this warranty would be in terms of a year by which this extension must be purchased, for how many years it can be extended, and whether this is a prorated lifetime or a full replacement warranty. All field devices replaced under warranty shall have their warranty period restarted and be warranted for the applicable period for that device (standard or extended). Please include these qualifiers in the Comments/Clarifications column for each entry. The table provided should be completed showing the quantities being proposed for each device with unit pricing as if the City exercises the warranty extension on each device type just before the expiration of the standard warranty or at the date required by the Supplier, as noted above.

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24 PROPOSED PAYMENT PLAN

The Proposer shall provide a detailed payment plan with all the pricing information in the supplied pricing worksheet. This proposed plan must consider the following payment plan pricing restrictions from the City.

1. The City will not pay any amount upon contract signature.
2. The City will not pay for any materials not received at their facilities.
3. The City will pay for the meter system test fixture upon delivery.
4. The City will consider a payment after completing the functional acceptance test.
5. The City will make a payment after completing the final acceptance test.
6. The City will make partial payments for installation services based on work completed and meters confirmed as reading.

These payment plans are solicited for the Proposer's proposal only. The actual payment plan will be negotiated as part of the contract negotiations with the successful Proposer.

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25 SUPPORTING WAUCHULA INFORMATION

The City-owned properties may be candidates for communication infrastructure siting. The Proposer shall receive a detailed listing of each available asset location that can be used for communication infrastructure take-out points along with relevant information (location, available mounting height, etc.).

25.1 City-Owned Assets

Table 25-1. City-Owned Assets

Name	LAT	LONG	Notes
E Oak Street Water Tower	27.549820	-81.808968	150 ft elevation.
Wildcat Way Water Tower	27.54643	-81.813119	150 ft elevation.
Admin Radio Tower (Police)	27.54508	-81.82064	60 ft - 75 ft elevation

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26 METER LOCATION MAPS

Please note that the location data used to create the following figures and maps are not included in this document but will be provided as separate files for Proposer's network design and planning.

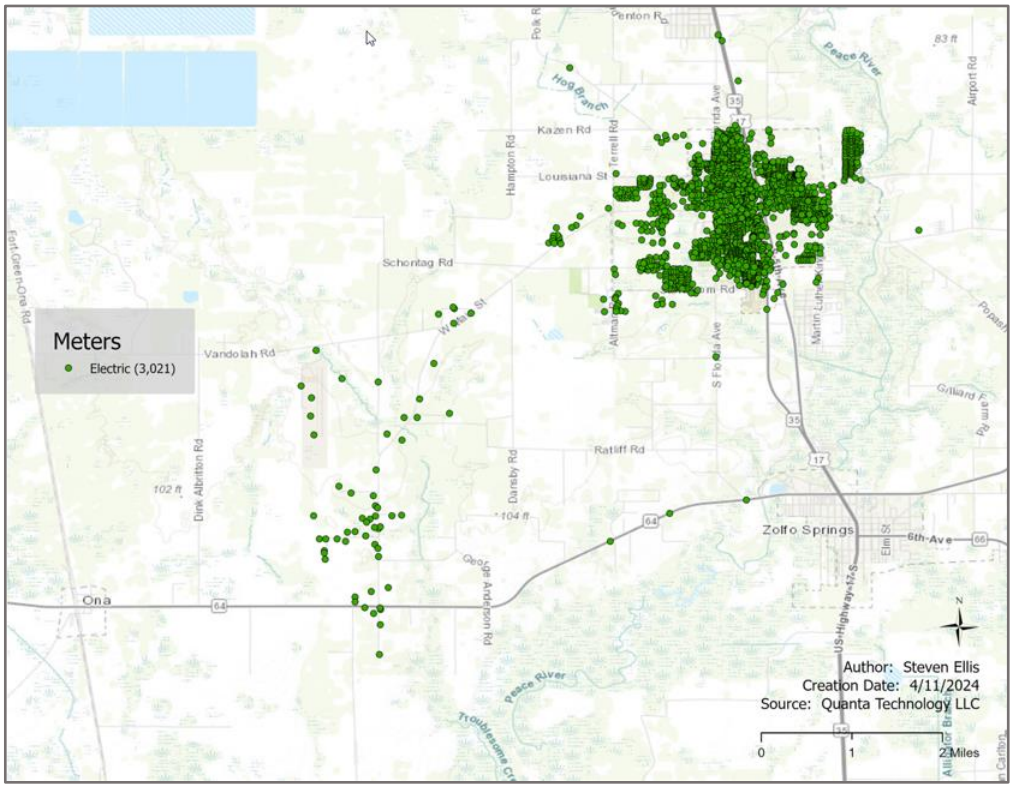


Figure 26-1: Wauchula Electric Meter Locations

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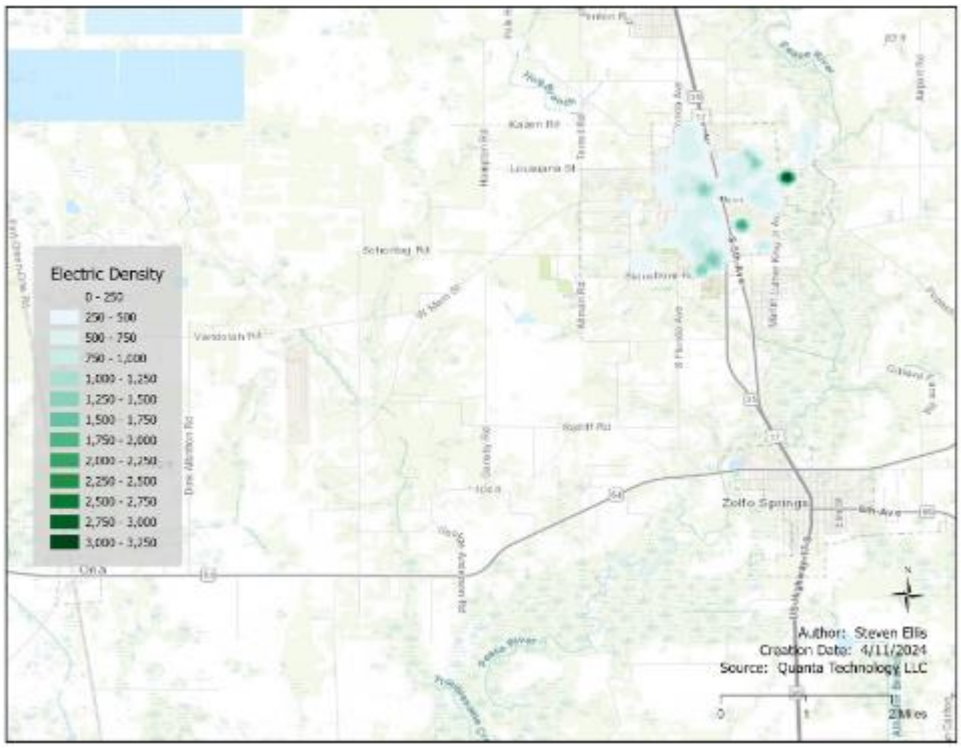


Figure 26-2: Wauchula Electric Meter Density Map

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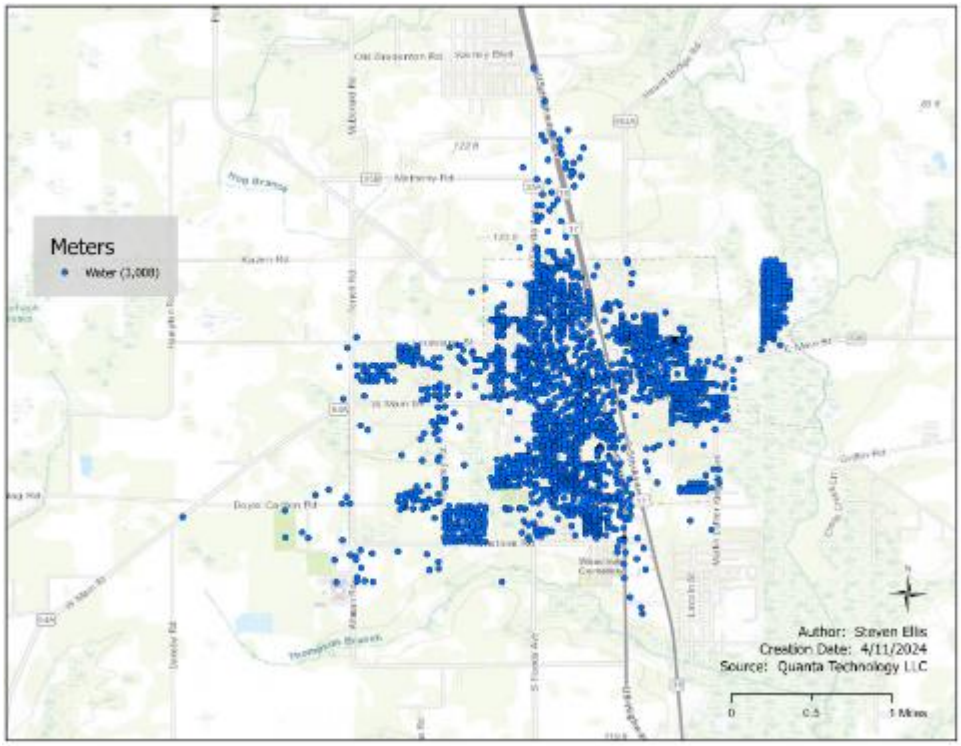
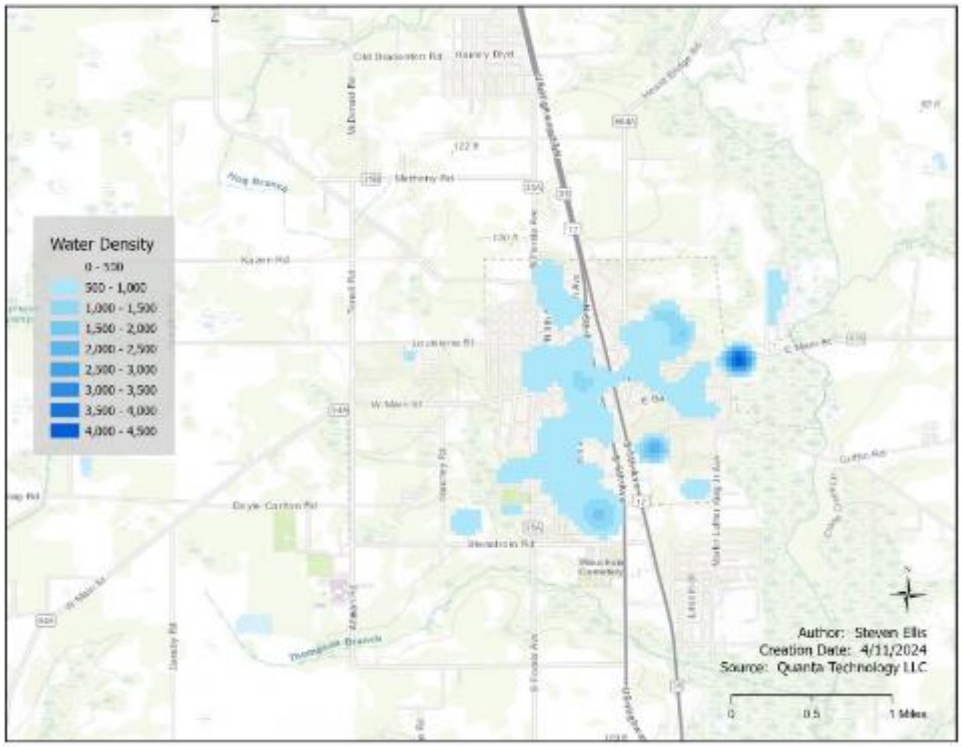


Figure 26-3. Wauchula Water Meter Locations



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Figure 26-4. Wauchula Water Meter Density Map

The Figure 26-5 below shows electric accounts overlaid on water accounts. Given the majority of the accounts are co-located and only electric is shown. However, single blue dots show water accounts without an electric counterpart.

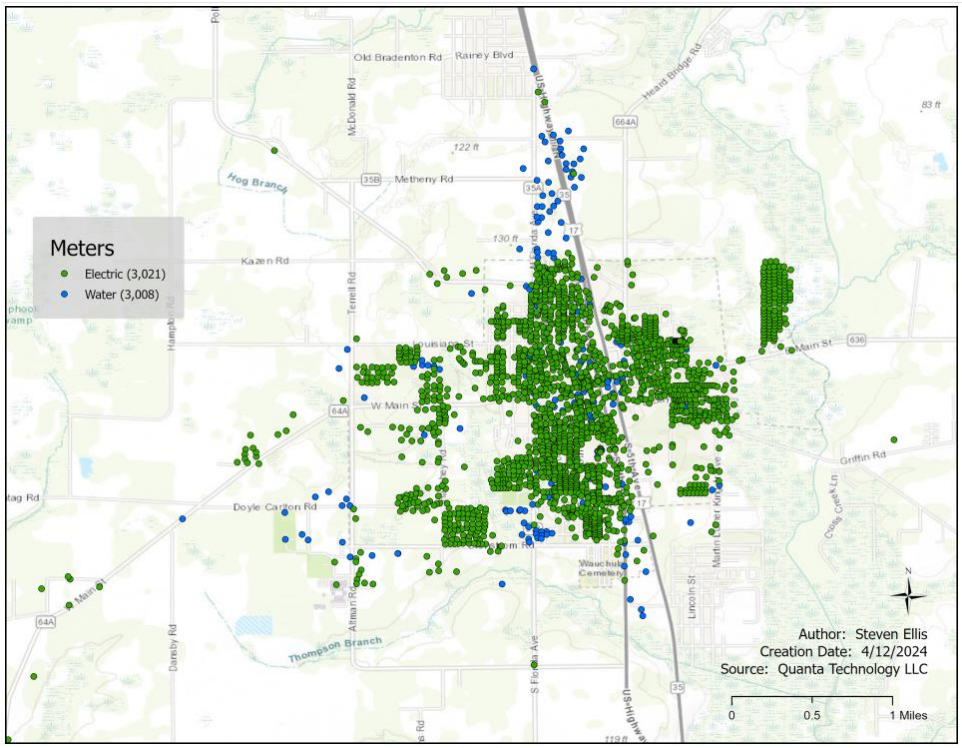


Figure 26-5: Electric Overlaid On Water Accounts

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27 OTHER CLARIFICATIONS, ASSUMPTIONS, AND EXCEPTIONS

The Proposer shall include in the supplied proposer response template all other clarifications, assumptions, and/or exceptions made during the completion of their RFP not reflected in previous responses. This includes clarifications, assumptions, and/or exceptions to the accompanying Proposer terms document.

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Exhibit B – Wauchula AMI RFP Technical Response Template

PREPARED FOR

City of Wauchula

DATE

July 8, 2024

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1 COVER LETTER

Cover letter: Insert a cover letter (up to two pages and text must be searchable) explaining why the City of Wauchula should select the Proposer for this deployment.

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2 PROPOSER OVERVIEW AND PROJECT PERSONNEL

Provide an overview of your firm, history, experiences, references, and project personnel.

Proof of authorization (SUNBIZ) to transact business in the State from the Florida Secretary of State, from prime and supporting firms.

2.1 Company Information

Proposer information: Please fill in the table(s) below.

Table 2-1. Company Information

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
6.1.1	Proposer Co. Name			
6.1.2	Office Address			
6.1.3	Contact Name			
6.1.4	Contact Title			
6.1.5	Contact email			
6.1.6	Contact Phone #			
6.1.7	Proposer Financial Information			

2.2 Project Personnel

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2.3 References

Please provide references for the Proposer's managed services for similar municipal utility deployments, including the information requested in Table 2-2. Please indicate all experience in the US Southeast or Florida where managed services are provided. If the system covers water-only areas, please indicate this fact.

When completing Table 2-2, the Proposer shall supply information for a minimum of one reference of a project (completed in the last 3 years) that meets each of the following criteria:

- **AMI –Electric & Water Solution:** AMI deployment, including water-only or electric and water with two or more water-only areas within the overall territory.
- **AMI – with Customer Portal:** AMI deployment, including use of Tyler's ERP Pro Customer Portal. Proposer to describe the functionality in use.
- **AMI – with Tyler ERP Pro**: AMI deployment successfully integrated with a Tyler ERP Pro system. Proposer to describe the functionality in use.

References that meet more than one of the above criteria would be especially valuable.

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Table 2-2. References

Rqmt. #	Rqmt. or Project Description	Utility Name	Utility in FL?	Contact Name and Title	Contact Phone #	Contact Email	Start/Completion Date	Number of Meters		Project Description
								Electric	Water	
6.2.1										
6.2.2										
6.2.3										
6.2.4										
6.2.5										
6.2.6										
6.2.7										
6.2.8										
6.2.9										
6.2.10										
6.2.11	Identify any failed or defaulted projects in the last 5 years.	Description								
6.2.12	Identify any claims or judgments outstanding against your company or sub-suppliers.	Description								

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2.4 Customer Site Visits

Table 2-3. Customer Site Visits

Rqmt. #	Requirement Description	Comply?		Comments / Clarifications
		YES	NO	
6.3.1	The Proposer shall recommend up to three customers for site visits. Preference will be given to utilities of similar size, scope, and proximity to the City.			
6.3.2	The Proposer shall work with at least two customers to arrange an on-site (or virtual) demonstration of systems and discuss utility processes, issues, etc. The City prefers that the Proposer not attend these on-site customer visits beyond simple introductions at the start of a meeting.			

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3 TECHNICAL SOLUTION

Technical solution: Please provide a succinct and easy-to-understand synopsis of the proposed hardware and software solution and the Proposer's vision for successful systems integration and ongoing managed services administration. Technical information to be detailed in this document includes proposed meters, physical interconnection, communications backbone (including available options), required communications studies to ensure appropriate coverage, and a summary of all software programs required to achieve Wauchula's desired AMI project objectives (i.e. web-based customer portal, MDM Lite, etc.) and the proposers' plan to integrate proposed products with existing Wauchula systems in a manner that minimizes risk of failure and burden to Wauchula's limited staff. Critical to this section will be disclosure regarding the attributes of the system being proposed as defined in the technical requirements throughout this document. This section should be limited to 20 pages since most of the technical and pricing information will be in the Proposer's RFP table submittals.

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4 CUTOVER PLAN

Cutover plan: The integration strategy presented in the “Exhibit A – AMI RFP System Technical Specification” must be supported, allowing the City’s CIS and billing processes to remain fully functional during the system's rollout. Provide your plan on how the Proposer will support this need.

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5 MANDATORY PROPOSAL REQUIREMENTS

The following set of requirements are mandatory. Failure to comply with any of the below requirements may result in disqualification.

Table 5-1. Mandatory Requirements

Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.1	No proposal shall be accepted from, nor will any contract be awarded to, any Supplier who is in arrears to the City upon any debt, fee, tax, or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City, or who is otherwise determined to be irresponsible or unreliable by the City.			
M.5.2	All Suppliers, including the Suppliers' subcontractors, must be qualified and licensed under the laws, rules, and regulations of the State of Florida to perform the work required by these contract documents.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.3	Failure to properly complete the proposal and required forms and requested data shall result in disqualification, including: • File formats that are not word searchable via commonly available desktop software (i.e., MS Office, Adobe Acrobat, etc.). • Failure to use the proposal forms furnished by the City. • Failure to provide signatures as requested by authorized representatives on proposal form(s).			
M.5.4	Submittal issues such as: • Evidence or suspicion of collusion among Proposers. • Unauthorized alteration of proposal forms. • Violation of the City's purchasing rules, Florida statutory requirements, or the requirements of this RFP.			
M5.5	The Supplier shall satisfactorily complete all Standard submittal forms.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.6	The proposed solution must include a managed software as a service (SaaS) offering with a minimum of a 10-year contract period.			
M.5.7	The proposed solution must include a managed network (NaaS) with a minimum 10-year contract period as a service offering.			
M.5.8	The Supplier must have five or more US customers using software as a service/network as a service during the last 5 years.			
M.5.9	The Supplier's system must support remote firmware upgrades on each type of endpoint device and have successfully executed this capability previously in a production environment.			
M.5.10	The proposed solution must support remote meter reads without needing site visits or drive-by activity.			
M.5.11	The proposed solution must support a customer portal with the ability to display quantities and required alerts (see Table 13-5)			
M.5.12	The Supplier must provide a system test fixture (see Table 12-1) as part of the proposed solution.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.13	The Supplier's proposed solution must include field installation services for both electric and water accounts along with any required water meter pit remediation.			
M.5.14	The proposed solution must interface with the City's Tyler ERP Pro system in such a manner as to provide an equivalent set of billing inputs with minimal disruption to existing City processes.			
M.5.15	All network and field devices (including metering endpoints) associated with the Supplier's system must not interfere with the City's lift station radios or SCADA system. SCADA system for electric uses cellular routers that are 4G LTE and is IP-based utilizing bands B2, B4, B5, B12, B13, B14, B77, and B71. SCADA system for WWTP / WTP is protected with some being cellular based and some internet based. The guarded SCADA frequency range for the WWTP / WTP is 2400 HZ.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.16	The City strongly desires a single Supplier contract with sole responsibility for all project phases, including the provision of long-term managed services. It is a mandatory requirement that the technology owner/developer be the contract signatory on the long-term managed services agreement. Please include a sample managed services agreement as supplemental information supporting this mandatory requirement.			
M.5.17	The Supplier of the managed services offering and the ongoing year-over-year support for the system must be the technology provider of the AMI software systems.			

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.18	The Supplier of all software integrations to City systems must be the technology provider of the AMI software systems. The technology owner/developer must supply a project manager / prime resource to support and oversee the entire system integration effort including statement of work, design, development, FSAT testing, and acceptance. Please elaborate on the team structure being proposed for software integrations.			
M.5.19	The technology Supplier shall provide initial training and ensure ongoing training is available for the system's life.			

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6 CLARIFICATIONS, ASSUMPTIONS, AND EXCEPTIONS

Clarifications, assumptions, and exceptions: Please add all clarifications, assumptions, and exceptions related to the proposal here.

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COMPLETED RFP TABLES (SECTIONS 7 – 21)

Complete all tables by supplying "Comply (Yes, No)" indications for each requirement as well as comments and clarifications as needed.

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7 CUSTOMER ENGAGEMENT

Please fill out the table below.

Table 7-1. Customer Engagement

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
7.1	The Proposer shall describe its experience with and approach to developing customer engagement plans.			
7.2	The Supplier must support at least 1 day on-site for the City's "AMI Day" meeting with residents.			
7.3	The Supplier must support 1 day on-site for a City Commission Meeting.			
7.4	The Supplier's installer must print advance notification customer communication materials, such as postcards. The content of these mailers will be developed in collaboration with the City. The Supplier must manage the timing and mailing of these materials to provide at least 14 days of notice to customers before installation.			
7.5	The Supplier must print door hangers that installers will distribute at residential			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	locations during successful and attempted installations. The content of these door hangers will be developed in collaboration with the City.			
7.6	The Proposer shall provide recommendations for additional marketing material based on its experience.			
7.7	The Proposer shall describe other options for customer engagement, if applicable.			

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8 AMI ELECTRIC METERS

8.1 General Features

Please fill out the table below.

Table 8-1. General Features

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.1	Define the meter manufacturer (by form if different manufacturers).			
8.1.2	Primary single-phase meter as offered shall have been in production for more than a year at time of proposal. Proposer shall provide number of units shipped in the last 12 months.			
8.1.3	Single-phase meters shall be available from at least two different manufacturers. Identify which manufacturers' meters and models are supported.			
8.1.4	Meters shall be solid-state ANSI compliant with a configurable minimum six-digit (not including identifiers) scrolling LCD display for residential meters, six digits for commercial meters.			
8.1.5	Meters shall include an integrated "under the glass" communications module compatible with the AMI system.			
8.1.6	Meter manufacturer shall supply a sample nameplate for each meter form for the City's approval prior to meter shipment. Specific			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	nameplate colors or meter numbering shall be available for each form and class if requested by the City.			
8.1.7	All meters including the communications module shall be tested at the factory and shipped with the test report.			
8.1.8	Meters shall ship from the factory pre-programmed. The program shall be approved by the City.			
8.1.9	All three-phase meters shall be available with an optional ANSI C12.18 compliant optical port for local reading and programming.			
8.1.10	Single-phase and 12S meters shall include a port for configuration and reading. There should be a means to remotely disable and enable the port.			
8.1.11	Meter shall support over the air and local F/W updates for both meter and communications related firmware. Meter shall have F/W rollback capability. Proposer shall describe this functionality. Meter shall continue to meter during firmware update.			
8.1.12	Single-phase meters shall include a 200A bi-stable latching disconnect switch matching the rating of the meter.			
8.1.13	Disconnect switch can be remotely operated via AMI system, RF tool, or optical port. Switch shall not connect if there is load side voltage. Meter shall provide an alarm in this case.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.14	Meter shall be able to be programmed to perform a self-read, as well as a demand reset at a specific time and day of the month.			
8.1.15	Proposer shall describe the meter losses during normal operation.			
8.1.16	Meter shall use nonvolatile memory for storing data.			
8.1.17	Meter shall support voltage monitoring and profiling. Proposer to describe these voltage measurement capabilities.			
8.1.18	Mechanical demand reset mechanism shall be provided as an option.			
8.1.19	Does the meter manufacturer require a first article customer approval process? If so, describe that process.			

8.2 Ratings and Standards

Please fill out the table below.

Table 8-2. Ratings and Standards

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.2.1	All meters shall comply with the current versions of the following ANSI industry standards: ANSI C12.1, C12.10, C12.19, C12.20, and C37.90.1.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.2.2	Meters shall comply with UL 2735. If this requires a higher cost meter than what would otherwise be needed to meet this specification, Proposer may also quote a non-UL-listed option in addition to the UL-listed meter.			
8.2.3	Meters shall comply with IEC 61000-4-4 and C62.45.			
8.2.4	Meters shall comply with applicable FCC standards.			
8.2.5	Temperature range. -40 to +85 degrees C.			
8.2.6	Frequency: 60Hz.			
8.2.7	ANSI C12.20 accuracy class 0.5 or better for residential meters, class 0.2 for commercial meters.			

8.3 Metered Quantities

Please fill out the table below.

Table 8-3. Metered Quantities

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.3.1	Energy: Wh, VAh or VARh (delivered, received, sum, net)			
8.3.2	Max demand: W, VA, VAR. (Specify if demand is rolling or block)			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.3.3	Current (commercial meters only), Voltage, Power factor, Watts, Vars			
8.3.4	Time of use: min 4 seasons, 4 rates, 4 switch points for energy quantities required. If proposing non-TOU meters, describe how the system can calculate TOU billing determinants from interval data.			
8.3.5	Interval data: min 4 channel 35 days, 15 min intervals - configurable to 5, 15, 30, or 60 min intervals			

8.4 Electric Meter AMI System Functionality

Please fill out the table below.

Table 8-4. Electric Meter AMI System Functionality

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.4.1	Meter shall support system functionality described in the specification. Advanced metering functionality that is not available to the head-end over the AMI network is not to be considered when identifying compliance.			
8.4.2	Meter shall be able to receive encrypted messages via the physical port, the AMI system, and if available, an RF tool as part of the AMI system.			
8.4.3	All supplied integrated meter types shall support auto registration to the AMI system. Proposer shall			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	describe diagnostics information provided by the meter upon meter installation. Proposer is asked to describe the process used during installation.			
8.4.4	Meter shall support time synchronization via the AMI system and locally.			
8.4.5	Meter shall support a method for local verification that it has successfully joined the AMI network.			
8.4.6	Meter shall include a mechanism to send an outage message after a user-definable interval when it has lost power. (Note that the state of Florida considers any interruption longer than 1 minute to be a sustained outage.) Proposer shall describe this functionality.			
8.4.7	Meter shall support remote meter configuration by way of the AMI network and RF field tool. Proposer shall describe the parameters that are programmable.			
8.4.8	Supplier shall provide the City with a file per meter shipment identifying all attributes for each electric meter shipped for installation into the Head End System.			
8.4.9	Describe the transmission of electricity meter data up to the head-end. Discuss frequency of reading and interval data transmission as well as events and alarms.			
8.4.10	System shall provide the ability to identify which phase (A,B,C) each meter is associated with.			

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8.5 Electric Meter Alarms and Events

Please fill out the table below.

Table 8-5. Meter Alarms and Events

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.5.1	Provide a list of all meter events and alarms. Events and alarms shall be available and resettable via the AMI network, RF tool, and optical port if the meter is so equipped.			
8.5.2	Reverse Energy: The meter shall detect reverse power flow on an integrated meter programmed or operating as a non-net energy integrated meter or non-bidirectional integrated energy meter.			
8.5.3	Meter shall alarm on tilt.			
8.5.4	Meter shall alarm on tilt/outage combination indicative of meter removal from socket.			
8.5.5	Meter shall alarm on attempted magnetic tamper.			
8.5.6	Meter shall alarm if voltage is outside of set limits.			
8.5.7	For three-phase meters: The meter shall monitor per phase voltages, currents, and phase angles to detect incorrect polarity or incorrect phase sequencing.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.5.8	Specify additional meter alarms or functionality in the meter that the City may utilize.			

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9 AMI WATER METERS AND MODULES

Please fill out the table below.

Table 9-1. AMI: Water Meters and Modules

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.1	A 20-year battery life is required for all battery-powered field devices. Please note that this section applies not just to water meters: If your architecture includes other battery-powered devices, such as repeaters. 1. Describe all conditions on the 20-year warranty. 2. Provide the reading frequency that the battery life warranty is based on and other battery-life-impacting activities such as firmware updates, LP interval length, frequency of on-request reads, and (if available) remote disconnect/reconnect. 3. For the water meter communications module battery warranty, state the approach taken for a failed battery (replace module, module, register, etc.). 4. If module only, state the assumption for this, such as if there will be cut wires and splice in a new module. (Cut wires and splicing *are not* preferred. A module that connects to the meter register with a waterproof inductive coupling or a highly			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	water-resistant connection such as a Nicor *is* preferred.)			
9.2	Water meter bodies should be warranted for a minimum of 10 years for full replacement with a 5-to-10-year period starting in year 11, where the warranty declines on a prorated basis.			
9.3	The Proposer will provide the material of the proposed meter body (e.g., brass, poly, etc.).			
9.4	The Proposer shall provide displacement and non-displacement (e.g., electromagnetic, ultrasonic) metering options in the pricing sheet.			
9.5	Battery life and status information must be transmitted to the head-end. Describe the battery life information transmitted by the water module, including the transmission frequency.			
9.6	Water meter nameplates should be customizable. Describe how meter/module labels or nameplates can be customized for the City as part of this project.			
9.7	AMI modules shall also be labeled with the manufacturer's name, ID number, date of manufacture, and any required FCC labeling.			
9.8	The City has six bulk metering points in its water system. The Supplier shall provide an appropriate bulk metering solution for water			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	balance computations, invoice validation, and net leak detection, but not for billing. The solution shall provide appropriate scaling or translation to result in a metered quantity delivered to the head end system. Proposer shall provide pricing for the proposed solution in the pricing sheet.			
9.9	The City has approximately 500 newer Kamstrup FlowIQ 2100 and 3101 ultrasonic meters with the iTron cable/plug that it would like to retrofit with an AMI communication module. Proposer to provide a solution to allow these meters to be read by the proposed AMI system. Provide what quantities and features your proposed AMI solution can retrieve from the meter.			
9.10	Residential meters shall be available from at least two different manufacturers. Identify which manufacturers' meters are supported.			
9.11	The meter/module must be capable of accepting a tamper seal.			
9.12	The module's firmware must be remotely upgradable from the head-end system and handheld devices. Describe all remote firmware and configuration capabilities of the water modules. Describe the process to affect these updates.			
9.13	Modules shall support 60-minute interval recording periods. Describe the duration of			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	interval data (in months and days) that can be stored.			
9.14	On-request reads from the head-end to the water meter must be possible. Describe on-request water read functionality and time for data to be returned to the head-end.			
9.15	On-request reads shall obtain an up-to-the-minute reading from the meter. If this requirement is not met, state where the reading is obtained (e.g., communication module, data concentrator, etc.) and the maximum age of the reading under normal operating conditions.			
9.16	Describe the approach to starting to read for meter and register changes or how old meter reads are handled if new registers start at zero.			
9.17	The module shall support the collection of register interval data from all meters.			
9.18	The module shall support the collection of water pressure and temperature readings from meters/devices that provide it.			
9.19	Water meters and modules shall transmit digital register reads rather than pulse counts.			
9.20	Water meters/modules must provide leak detection. Describe this detection capability.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.21	Water modules shall be readable by the head-end system and the Supplier-recommended handheld devices.			
9.22	Water modules shall be synced to within 30 seconds of system time. Interval data must be time-stamped. Elapsed time is not acceptable.			
9.23	Water modules shall transmit a cut wire occurrence.			
9.24	Describe all water disconnect/reconnect capabilities available, including meter sizes on which this feature is available, whether the valve is integral to the meter or separate, impact on box size, and flow control options provided (e.g., on, off, restricted flow)			
9.25	Describe the network topology for water meters—star connection, pt-to-pt, mesh through meter, etc.			
9.26	Does the meter manufacturer require a first-article customer approval process? If so, describe that process.			
9.27	Describe all data transmitted from water modules, including register data, interval data, events (be specific), and alarms (be specific).			
9.28	Describe all backflow indication/prevention capabilities of the proposed water meters.			
9.29	Describe the data encryption provided by water modules.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.30	Describe the module antenna configuration and how through-the-lid mounting is accomplished.			
9.31	Describe the module battery replacement process, if any.			
9.32	Describe the minimum clearance needed between the top of the meter and the bottom of the box lid.			
9.33	Describe the transmission of water data up to the head-end. Discuss the frequency of reading and interval data transmission, as well as events and alarms.			
9.34	List all water meters that the Proposer's module is compatible with and specifically identify the proposed meters for this proposal.			
9.35	Provide the operating temperature range in degrees Fahrenheit for the water module.			
9.36	Specify additional alarms or functionality in the module that the City may use.			
9.37	Provide expected meter body lifetime per supported meter.			

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10 NON-METER DEVICES

Please fill out the table below.

Table 10-1. Non-Meter Devices

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
10.1	State the manufacturer of non-metering devices (e.g., pressure detection, leak detection, gateway devices) if different from the Proposer.			
10.2	Describe the data collection method offered (e.g., point-to-multipoint transceiver). Please provide the functionality of these devices and the installed base of each device type.			
10.3	Describe how the functionality of each non-metering device is supported at the system level.			
10.4	Indicate whether the devices UL Listed.			
10.5	System must support a load control device/solution that is minimally capable of interrupting one 30-amp device. This includes A/C units, hot water heaters, and pool pumps. Describe this functionality and the numbers of LC devices per premise that can be controlled.			
10.6	Describe the electrical characteristics of LC devices including their amperage interrupt capability, tamper detection, etc.			
10.7	LC functionality shall include a cold load pickup strategy such as randomization over a defined time			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	frame. Describe this and other load management functions offered.			
10.8	For a specified load control device, describe any customer override capabilities for LC actions and how the system is made aware of and processes those actions.			
10.9	Describe the extent to which non-metering devices have been incorporated into the AMI head-end system.			
10.10	Describe any pricing level interaction capability from customer to the City including demand response, CPP, etc.			
10.11	Describe any programmable controllable thermostat capabilities provided by the AMI system.			
10.12	Describe any Home Area Network devices and support, and the network technology/protocols used to communicate with these devices. If your solution relies on Zigbee to communicate with HAN devices, indicate whether the residential meters proposed include Zigbee capability or if a special meter or gateway would be required.			
10.13	Describe the proposer's support for smart streetlight controllers at both the system and hardware levels, including visibility and availability of energy and power quality data from streetlight controllers in the AMI head-end. Provide a list of streetlights (manufacturer and model) that can be retrofitted with proposer's streetlight module.			
10.14	Identify all distribution automation devices supported (e.g., FCI, transformer monitor, cap bank controllers, or			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	recloser interface), protocol used (DNP 5/IEC 61850, etc.), and how these operate on the proposer's system.			
10.15	Provide the operating temperature range in degrees Fahrenheit for each non-metering device offered.			
10.16	Describe the communications approach from the AMI system to each non-meter device supported and discuss how or whether these devices participate in overall AMI system communications in roles such as repeaters, etc.			
10.17	Describe the number of proposed non-meter devices, the purpose of each, and the expected maintenance activities required by the City for each.			

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11 COMMUNICATIONS

Please fill out the table below.

Table 11-1. Communications

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.1	Based on facility location data supplied by the City, the Proposer shall provide an RF coverage plan and maps that demonstrate adequate communication to all devices to address all requirements in this proposal specification. Device types must be visually different (i.e., by color, shape, etc.) in the Proposer's RF coverage plan.			
11.2	The Supplier shall provide a cellular endpoint-based option for the AMI solution and total ownership cost over 10 years.			
11.3	The Supplier shall provide a non-cellular endpoint-based option with collector/radio for the AMI solution and total cost of ownership over 10 years.			
11.4	Based on the proposed network design, all meters must have a redundant communication path that will automatically be used if their normal communication path fails or is unavailable. Explain how this is achieved.			
11.5	Identify the type of network topology used (e.g., mesh, point-to-multipoint), frequencies used, and transmit power.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.6	Network transceiver and/or network repeater devices may be required. The Proposer shall state any such requirement for its system and include pricing for the proposed devices. All devices required beyond this number to ensure acceptable system performance shall be provided free of charge by the Supplier to the City, including installation.			
11.7	Describe the Proposer's backhaul plan.			
11.8	The Supplier shall provide as-built network installation location information in shapefiles capable of being loaded into a GIS system.			
11.9	Describe the remote firmware update process, including typical circumstances requiring an upgrade (firmware bug, feature enhancement, etc.). Include all remotely upgradable devices. If devices are not remotely upgradable, describe how local updates are performed.			
11.10	Describe the process ensuring no metering data loss during a firmware update.			
11.11	Network components combined (meters and communications devices) shall be able to retain at least 30 days of data. Describe how this is accomplished. Note that this is a storage requirement for the deployed network and metering equipment. Further longer-term system-level retention requirements are included below.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.12	The network must provide 100% coverage with two-way communication for every meter and device.			
11.13	The Supplier must submit network design and planned equipment locations, mounting details, and power requirements to the City for approval before installation. Identify all supporting work to be performed by the City.			
11.14	The Proposer must confirm that it understands that the Supplier is responsible for all site RF surveys when/if they are needed.			
11.15	The Supplier will participate in and lead, if appropriate, any design and/or status reviews during network and meter deployment.			
11.16	All network communication equipment shall comply with all applicable FCC regulations.			
11.17	All outdoor enclosures shall meet NEMA 4 and be lockable. Door-open contacts shall be included that will cause an alarm at the head-end system.			
11.18	Describe the radiation exposure for each piece of network equipment, including meters for installers and customers.			
11.19	Describe all network equipment battery backup requirements or recommendations. For equipment with a backup power source, state how long the device will remain operational without A/C power (assuming a continuous outage).			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.20	Any network device, other than water meters, must be able to automatically recharge the battery when operating using A/C power.			
11.21	A network battery life span of at least 5 years is required. The Proposer shall define the battery maintenance cycle for their solution. Network equipment must send battery status and low battery alarm information to the head-end system.			
11.22	Describe all equipment with solar and battery powering options.			
11.23	List the installation/mounting options available for each type of network device.			
11.24	The Supplier shall be responsible for programming network communication equipment before field installation.			
11.25	If the Proposer's system is based on a point-to-multi-point (star) configuration, discuss how bandwidth problems can be mitigated by forcing blocks of meters to register to an assigned take-out point rather than all meters preferentially seeking a single take-out point.			
11.26	Describe any communications settings available to allow prioritization of various packet types such as DA messages to ensure they receive preferential treatment for delivery.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.27	Describe all commissioning, test, and calibration files provided by the Proposer for each type of communicating device, including meters. The Supplier will be required to import these into the head-end system. Describe in detail the contents of each of these file types.			
11.28	Describe all remote mount antenna requirements/options for each network device type, including meters.			
11.29	All network and field devices (including metering endpoints) associated with the Proposer's system must not interfere with the City's water SCADA system. **This requirement is mandatory.** Frequencies for these systems are as follows: SCADA system for electric uses cellular routers that are 4G LTE and is IP-based utilizing bands B2, B4, B5, B12, B13, B14, B77, and B71. SCADA system for WWTP / WTP is protected with some being cellular based and some internet based. The guarded SCADA frequency range for the WWTP / WTP is 2400 HZ.			
11.30	Describe the timing for all communication devices and meters (electric and water) to return to normal after recovering from a system-wide communication network outage.			

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12 SYSTEM TEST FIXTURE

From Exhibit A: To support these needs, the Proposer shall provide a preliminary design of such a board and pricing to construct and deliver it to the City before training and field deployment. The City is not looking for a commercially available meter test fixture for accuracy testing. The proposed solution must:

a. Be a deliverable that is purchased and remains with City post project implementation
b. Be designed for the purposes of testing the operation of the meters and the overall AMI system. The test fixture is not intended to be used for meter accuracy testing.
c. Be portable with wheel mounting preferred
d. Be able to support include at least one of each type of proposed device (meter and all other ancillary equipment) as part of the project. It is anticipated that a separate test fixture be utilized for water and another separate fixture for electric given the differences in implementation.
e. For water: Be able to generate water flow through the meters in both directions as well as other events and alarms supported by the meters.
f. For electric: Be able to have visual indicators indicating on/off (e.g., light bulb for confirming connect/disconnect) or other confirmations of operations.

Please fill out the table below.

Table 12-1. Meter System Test Fixture

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
12.1	As described above, a System Test Fixture is required that meets or exceeds required elements. Please describe the proposed system test fixture in detail sufficient to understand the intended offering.			
12.2	The system test fixture shall be suitable for in-depth training of City personnel.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
12.3	The system test fixture shall be able to be read by the to-be-deployed network and head-end system and provide a platform to demonstrate system capabilities in various venues such as City Commission meetings or customer engagement "AMI Day" at City offices.			
12.4	The system test fixture shall support system testing and potential testing of new firmware releases before field installation.			
12.5	The system test fixture shall support billing and other integration testing before field rollout.			
12.6	The system test fixture shall support testing new third-party devices offered by the Supplier and their sub-suppliers.			
12.7	The system test fixture shall contain at least one of each type of field device to be deployed as part of the project.			
12.8	Please list all additional smart devices to be included in the system test fixture.			

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13 SOFTWARE SYSTEMS

Please fill out the table below.

13.1 Managed Services

Table 13-1. Managed Services

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.1	Detail the City's interaction process with managed services support via telephone, email, web portal, hours of support, etc. If 24/7 support is not provided as part of the standard managed services offering, state the options for upgrading to 24/7 support, including pricing.			
13.1.2	Describe the head-end system update process, the time durations to implement it, and the frequency of releases.			
13.1.3	Describe managed services data centers (primary and disaster recovery locations). Provide photographs of these facilities (inside and outside).			
13.1.4	Describe the disaster recovery process and the maximum time from system failure to recovery. Describe the point of recovery (last backup, yesterday, point of failure, etc.)			
13.1.5	Describe system backup processes, scope, and recovery request process.			
13.1.6	Describe and provide all applicable service-level agreements.			
13.1.7	Describe the system and field device software and firmware update processes and durations.			
13.1.8	Describe managed services staffing and hours of coverage.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.9	Describe trouble call response time commitments.			
13.1.10	Describe data center physical security and power security.			
13.1.11	Describe historical data center uptimes.			
13.1.12	The Supplier will ensure that all personally identifiable information (PII) regarding the City's customers will be protected from being released. At all times, ownership of any such data remains with the City.			
13.1.13	Describe the City's required efforts associated with the implementation of managed services. Include any point-to-point VPN or other requirements. The City will require assistance to implement this.			
13.1.14	The Supplier will notify the City of any security issues (physical or cyber) no later than the next business day after the Supplier becomes aware, including a description of the issue's resolution and any actions the City should take. Describe this process.			
13.1.15	The supplier shall have a notification process to inform the City of all software or firmware problems that the Supplier becomes aware of that may impact the City and provide a time frame for resolutions. Describe this process.			
13.1.16	Describe any backdoors in the managed services systems and how they are managed.			
13.1.17	The Supplier shall have a formal process for users to submit problem reports. The Proposer shall submit this process as part of their proposal.			
13.1.18	Describe all web browser versions supported. Web browsers must at least support SSL.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.19	The City prefers that all user interaction be web-based. If any thick clients are required, describe those and how installation and upgrades are managed.			
13.1.20	Maintenance shall be performed only during off-hours (11 PM to 6 AM Eastern time) unless under emergency.			
13.1.21	The Supplier shall notify the City of any available software or firmware updates to the AMI system and their recommendation on implementing each.			
13.1.22	The system must maintain an online set of water and electric metering-related data for 5 years. The data must be retained for the managed services contract's life and reloadable if needed for the City's data analysis. The City requires that all system data be archived and provided to the City in a documented format that the City can maintain every calendar year. These archives must include all billing determinants provided by the system. Describe this process and the file format.			
13.1.23	The Supplier shall provide details on how service restoration after a major outage would be accomplished within 1 business day.			
13.1.24	The Supplier shall provide a pricing option for a test environment for the Head-end application with separate network device(s) to perform stand-alone testing using the supplied Meter System Test Fixture.			
13.1.25	The SaaS or Managed Services offering must be provided from a SOC 2 Type II certified data center(s).			

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13.2 AMI Head-End System

AMI head-end software: These are all system requirements regardless of which managed services component provides the capability. Please fill out the table below which represents the AMI head-end software requirements.

Table 13-2. AMI Head-End Software

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.1	All head-end system interfaces will be accessible by commonly used web browsers (Chrome, Firefox, Edge, Safari, etc.) and support simultaneous users.			
13.2.2	Head-end system will support calculations of the City standard KPI indices including SAIDI, CAIDI, SAIFI, and MAIFI using the outage and blink data available in the system (monthly and with the ability to annualize). The system must provide standard reports whose data can be extracted to allow the City to easily calculate these KPI's. Supplier will coordinate the meter configuration during the project to ensure that settings that define momentary and sustained outage are consistent with the City's needs and regulatory definitions since Florida and IEE definitions of these parameters differ.			
13.2.3	Head-end system shall have the ability to report on outage occurrences and blink counts for all electric meters. Outage notifications will be reported to the head-end within 1 minute of the occurrence for 99% of meters.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.4	The head-end system shall automatically retry missing billing reads and missing interval data.			
13.2.5	The head-end system must provide a user-configurable ability to send text messages and emails for selectable events and indications (e.g., outage/restoration). The Proposer shall provide a list of events for which this notification is possible for water meters, electric meters, and other network components and how they will be grouped or otherwise filtered. For each occurrence type, up to five media recipients shall be possible. It is required to be able to assign City recipient event notification emails and text numbers per water and electric meter account to support key account vigilance. These are City personnel notification processes. Individual customer notifications are included as part of the customer portal requirements. Describe these functionalities in detail.			
13.2.6	For outages, it is required that the City have the ability to set up text and/or email notifications for up to 5 city employees where they are aware of at least one outage on the system. This notification should contain all outages present at the time the message is sent. Sending a text and/or email per outage is not acceptable. Describe this functionality in detail.			
13.2.7	The head-end system time shall be synced to a network time server that is synced to a national standard.			
13.2.8	Time accuracy relative to system time: 1 minute for electric, 5 minutes for water.			
13.2.9	The head-end system shall support Standard Time and Daylight Savings Time.			
13.2.10	Firmware updates for individual, all, or groups of devices shall be possible. Describe these capabilities and the associated process.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.11	During the firmware download process: The head-end will provide a robust set of reports or displays to show the download status, estimated time to completion, all error conditions, and all other information needed to manage the firmware update process effectively. Firmware updates for all devices will be logged.			
13.2.12	Head-end system shall support the ability to turn off all radios in any electric meter. A handheld will be required to turn the radios back on. Describe these capabilities and the associated process.			
13.2.13	The head-end system shall support all interval data recording lengths and channel configurations available in meters.			
13.2.14	The head-end system must be able to identify and enforce the inability to disconnect accounts identified as "medical do not disconnect." Explain how this is achieved.			
13.2.15	The head-end system shall support reading all quantities available in meters, including but not limited to: • kWh (electric) • Var (electric) • Under the cover meter temperature (electric) • Last read. • Unit of measure. • Number of meter digits. • Device firmware version. • Disconnect switch status			
13.2.16	The head-end system will support the establishment of daily, weekly, or monthly billing schedules.			
13.2.17	The head-end system shall support other non-billing schedules to bring back items of interest to the City, such as service voltage,			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	pressure readings or smart sensor data (like tank levels). Describe this capability and what water metering quantities (water and electric) can be so scheduled.			
13.2.18	The head-end system shall support on-request reads of any meter in the system. All meter data shall be returnable by such reads. **On-request read capability is a mandatory requirement for water and electricity meters.**			
13.2.19	Head-end system shall be able to perform an on-request demand reset for electric meters. Describe how this demand reset function works on a scheduled and on-request basis. Include a description of and the time sequence of any data brought back as part of a demand reset.			
13.2.20	Head-end system shall have the ability to confirm demand reset has occurred by examining demand reset count before and after the request. Describe how this confirmation occurs on the head-end system.			
13.2.21	Head-end system shall report on voltage threshold violations consistent with the thresholds available in electric meters.			
13.2.22	Head-end system shall detect and report time-stamped indications of all electric meter outages and restoration.			
13.2.23	Head-end system shall support all TOU functionality defined in Table 8-3Table 8-3, including modifying such settings.			
13.2.24	The system must provide a geospatial/map view of all devices on the communications network, which includes various device statuses via visual differentiation (color, etc.). Communications paths and health status should be included on these maps.			
13.2.25	Head-end system shall support pre-pay for electricity. Describe this pre-pay capability and any third-party relationships involved in your offering. (Note that the requirement for this RFP is to provide			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	an AMI solution that is "pre-pay-ready". The utility intends to purchase a pre-pay application separately.)			
13.2.26	The Proposer shall provide a complete list of events and alarms supported by the head-end system and endpoints.			
13.2.27	Collecting metering data from deployed meters must be possible if the communications network is down. If there is a temporary failure or unavailability of all or a portion of the communications network, describe the backup process by which the City will gather meter reading data until repairs are made.			
13.2.28	The system shall provide reports to address the following: • Water meter low battery. • Electric meter low battery (if outage battery is used) • Meter configuration changed. • Meter errors. • Service Voltage (sags, swells, minimums, maximums, averages, etc.) • High flow, reverse flow, high/low pressure. • Tampers. • Battery status for all battery-backed network devices. • Counts of outages, blinks, and momentary interruptions			
13.2.29	The Proposer shall list available reports and capabilities in support of smart sensory devices (e.g., pressure, temperature, pH/water quality, and others as available). These capabilities will not be implemented in the initial AMI implementation but are part of the City's strategic roadmap.			
13.2.30	Discuss remote connect and disconnect capabilities via batch operations.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.31	Discuss remote connect and disconnect load side voltage detection and closure prevention.			
13.2.32	Disconnect switch status (open/closed/restricted flow-for water) shall be visually displayed on system displays.			
13.2.33	The head-end system shall support remote connect/disconnect status confirmation reads.			
13.2.34	Head-end system must support secure web-service calls from other systems to allow connect/reconnect operations. Describe these web services.			
13.2.35	The head-end system shall provide the ability to perform on-request reads of events and alarms (in addition to events automatically alarming up to the head-end system).			
13.2.36	Describe configurable parameters in water and electric meters and how changes to the parameters are implemented. Include changes to TOU schedules and seasons, LP interval, demand reset behavior, Sag & Swell limits, etc.			
13.2.37	Describe the system's firmware update process from end to end, including any retries, commit processes, rollback processes, etc.			
13.2.38	The head-end system shall not store sensitive customer personally identifiable information such as Social Security numbers, credit card numbers, etc. Name and address are acceptable if no other personally identifiable information is associated with them.			
13.2.39	No data may be released or sold from the City system.			
13.2.40	Hardware, software, and firmware configurations: The system shall maintain and provide current identification of hardware versions, firmware, and software for all AMI system components.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.41	Duplicate meter serial numbers: The system shall identify the premises where the same serial number has been used more than once.			
13.2.42	Network component status: The system shall report on the health of the Supplier's network components, including memory errors, battery status, signal strength, connection errors, redundancy, and whether the network components pass or fail the Supplier's operating specifications.			
13.2.43	Describe the confirmation process for any control action or customer messaging from the system.			
13.2.44	Provide a detailed product roadmap showing any enhancements that can be incorporated into the proposed AMI system.			

13.3 Meter Data Management (Lite)

Please fill out the table below.

Table 13-3. Meter Data Management

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.1	The system must support loading and maintaining GPS coordinate data for water meters and other field-deployed devices in decimal degrees to a six-decimal resolution.			
13.3.2	Preconfigured reports for examining meter data shall be provided. Describe these reports.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.3	The system must include water and energy balance analytics and dashboards. Please describe.			
13.3.4	The system must manage the database of meter readings and other related information about the meters and the AMI system.			
13.3.5	The system must be able to export data from reports in standard .CSV format.			
13.3.6	The system must provide a dashboard display that includes: • Peak usage. • Missed readings (excluding in-process missed read retrieval and missing LP gap fill-in processes). • Usage comparisons for like time periods. • Alerts and alarms. • Current status, including current read, disconnect status, etc.			
13.3.7	The system must provide validation, editing, and estimation (VEE) capability for water and electric meter reads to identify suspicious reads, allow City personnel to override a billing value, and estimate a billing read based on previous like time periods.			
13.3.8	The system shall support analytic leak and burst pipe detection with a definable rule set for water interval reads over various time periods, including sudden sustained high reads.			
13.3.9	The system shall be able to report on user-defined low or no flow conditions for water and electric meters over a specified time.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.10	The system shall be able to report on water and electric reverse flow conditions.			
13.3.11	The system shall be able to report leaks.			
13.3.12	The system shall support reporting on user-defined conditions considered abnormally high/low water consumption over a specified time.			
13.3.13	The system shall support enhanced analytics capabilities to identify non-technical loss (e.g., tampering/theft, energy loss or diversion, suspicious accounts based on usage patterns, and aggregated meter consumption comparisons).			
13.3.14	System shall support enhanced analytics capabilities to allow for monitoring and identification of under-utilized, over-utilized, or at-risk transformers throughout the distribution system (kVA utilization, loss of life and remaining life computations)			
13.3.15	System shall support enhanced analytics capabilities to allow for outage and reliability analysis and reporting including Outage/Restoration, and Reliability Computations (SAIDI, SAIFI, CAIDI, CAIFI, MAIDI, MAIFI)			
13.3.16	System shall support enhanced analytics capabilities to allow for demand and capacity monitoring (e.g., customer demand contributions, demand response impacts)			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.17	System shall support enhanced analytics capabilities to allow for monitoring of power quality (e.g., voltage monitoring, voltage optimization, CVR/CVO, outage, and restoration.			
13.3.18	Describe how the proposed solution can provide load forecast using data from the AMI system for all meters in the system with identified EV and/or PV presence behind the meter. Does the system support KPI's to track changes in customer adoption of EV charging using data from the AMI system. Does the system provide KPI's to track changes in customer PV installations using data from the AMI system			
13.3.19	MDM Lite Functionality: Describe the MDM Lite functionality offered by your system. This description should address functions like system water balance support, multiple meter LP data aggregation for load studies, theft detection through pattern recognition such as an outage followed by reduced consumption, etc. Also, provide information on what your other municipal customers do with this MDM functionality.			
13.3.20	The system must support display of meteorological data such as temperature, dew point temperature, and rainfall. The data must be displayed in conjunction with water usage reports.			

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13.4 Outage/Restoration Information System

Please fill out the table below.

Table 13-4. Outage/Restoration Information System

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.4.1	At a minimum, system must provide outage/restoration visualization using a map format (not full outage management functionality).			
13.4.2	System must provide the ability to ping the electric meter from a map format to confirm meter is still in an outage.			
13.4.3	System must provide per meter email and texting capabilities on outage and restoration described in Table 13-2. These texts must be able to be different for various accounts and cannot be global in nature such that all outages are sent to one text number.			
13.4.4	System must provide the ability for the City to receive notification to multiple text numbers to allow them to be aware that they have an outage on the system without being overrun with text messages from each meter. This functionality should be configurable to allow the City to configure the number of outages that must occur before this text is triggered. Describe in detail how this requirement is implemented in your system.			
13.4.5	The head-end system shall report on outages (blink, momentary, and sustained). These outage types shall be configurable parameters by the City that define power loss duration for each event type. (Note that			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	the state of Florida considers any interruption longer than 1 minute to be a sustained outage.) Describe these blink and outage parameters and how these events are reported.			

13.5 Customer Portal

Please fill out the table below.

Table 13-5. Customer Portal

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.1	The Proposer shall include a City customer web portal as a part of their solution.			
13.5.2	Describe all mobile application extensions that may be available on this portal.			
13.5.3	The customer web portal software shall allow the City's customers to initialize a new portal account using their addresses, City billing account numbers and the amount of the last payment received. Initializing a new customer account shall require no involvement of City staff.			
13.5.4	The customer web portal's functionality shall be available for water and electric services.			
13.5.5	The portal must have the ability to display customer data, including: • Consumption and cost graphs for the past 12 months. (Data must be retrieved from the City's CIS system.)			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	• Hourly (or as set in meters) interval readings for water or electric over the past 6 months. • Current consumption since the last billing for water and electric (Billing date information must be retrieved from the City's CIS system). • Billing history report for the last 12 months. (Billing information must be retrieved from the City's CIS system.) • High usage periods (based on user-definable limit). • Leak indication.			
13.5.6	The customer web portal software shall allow customers to set up accounts using an e-mail, cell phone number, username, and password.			
13.5.7	The customer web portal shall include provisions for customers to reset or retrieve their passwords and/or usernames without City involvement.			
13.5.8	The customer web portal shall include the ability for the City to reset a customer's password to a default that the customer must reset on the next login.			
13.5.9	The customer web portal shall support Multi-Factor authentication as part of the account login process.			
13.5.10	The customer web portal must support the display of meteorological data such as temperature, dew point temperature, and rainfall. The data must be displayed in conjunction with water and electric usage reports.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.11	The customer web portal shall include the ability for customers to retrieve their current water or electric meter readings via a request to the AMI head-end.			
13.5.12	The customer web portal shall be able to make bill comparisons for a customer's neighbors. This shall be based on latitude and longitude (lat/lon) to determine the "nearness" of other customers. A provision must be made to exclude immediate neighbors based on lat/lon to avoid any potential disclosure of personally identifiable information. The Proposer shall describe this functionality in detail.			
13.5.13	The portal shall allow customers to receive notifications of a subset of system event messages. At a minimum, outage or leak customer notifications must be selectable by individual customers through the portal interface. Notification of specific events shall be selectable per customer. The notification mechanism shall be customer-selectable (text and/or email). Describe this functionality for water and electric meters and define what events are configurable.			
13.5.14	The customer web portal shall display City-entered customer notification information on a per-customer or broadcast basis.			
13.5.15	The customer web portal shall allow customers to use water and electric interval data to perform "what if" bill comparisons against alternate consumption usage. The portal admin function shall include the City's ability to enter alternate rates. No rate development activity is in the Supplier's scope.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.16	The customer web portal shall include single sign-on integration to the City's existing web portal.			
13.5.17	The Supplier shall interface with the City's customer portal.			

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13.6 User Interfaces

The Proposer will provide screenshots from the software user interface showing how a system user would view each of the use cases listed in the table below. Include comments on how each of these screens would be accessed.

For each of these User interfaces, supplier shall include a brief explanation as to how the User will perform these functions.

Table 13-6. User Interface Screen Shots Requested

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.6.1	Disconnect/reconnect management			
13.6.2	Outage report			
13.6.3	Meter read rate performance			
13.6.4	Network equipment issues			
13.6.5	Leak summary			
13.6.6	Alarms/events			
13.6.7	Dashboard-level view of critical system information			
13.6.8	Customer portal screen showing usage history and other customer-relevant information			

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13.7 Documentation

Please fill out the table below.

Table 13-7. Required Documentation for Project Execution

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.7.1	The Supplier shall provide a Microsoft Visio system diagram of the plan, from head-end system to field devices. An “as-built” update of this diagram will be required before project closure.			
13.7.2	The Supplier shall provide a list of all documentation submitted to the City during the project and as a part of training.			

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14 CUSTOMER IT SYSTEMS INTEGRATION

Please fill out the table below.

Table 14-1. Customer IT System Integration Requirements Summary

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
14.1	The Supplier shall provide the appropriate software integration to automatically transfer appropriate data to and from the billing and CIS. The City's CIS is a Tyler ERP Pro system. All licenses required to use the Supplier-provided integration software will be provided to the City by the Supplier.			
14.2	The Supplier shall provide the appropriate software integration to implement any other functionality described herein.			
14.3	The system must interface with the City's Tyler ERP Pro System to provide an equivalent set of billing inputs to Tyler ERP Pro with minimal disruption to existing City processes. **This is a mandatory requirement.** Describe in detail how this integration will be achieved.			
14.4	The Supplier will be responsible for integrating their installation contractors Work Order Management System (WOMS) with the City's CIS System for meter exchanges with minimal disruption to existing City processes. This integration is only for the field deployment phase of the project. **This is a mandatory requirement.** Describe in detail how this integration will be achieved.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
14.5	The existing City metering and billing process flow is shown in Exhibit A Figure 1-3, and the anticipated flow during and after this project is shown in Exhibit A Figure 1-4. The Proposer shall describe how 1) its WOMS fits into this plan, 2) individual installations are managed, and 3) the data flows back to the AMI head-end system and the City's Tyler ERP Pro System.			
14.6	The existing Tyler ERP Pro System must remain fully functional during the rollout. Describe how the Proposer will support this need and ensure a smooth transition to full AMI billing operations with meters being removed and replaced daily.			
14.7	The Supplier will provide an integration to the City's Customer Portal (Tyler ERP Pro Smart Meter Access).			
14.8	The Supplier will provide an integration of lat/lon data gathered by the meter installer into the Tyler ERP Pro system or other geolocation system of record chosen by the City.			
14.9	Proposer to include any recommended integrations for Distribution Automation and SCADA capabilities.			

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15 SECURITY

Please fill out the table below.

Table 15-1. Security System Requirements Overview

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.1	The entire network shall have an overall security scheme from the AMI head-end system through meters and other field devices. Please describe this scheme.			
15.2	Over-the-air security is required for all system components, including head-end, network components, backhaul communications, meters, and field devices (handhelds, etc.). Please describe the encryption method, key management process, related functions, and applicable standards for each system and device. While NERC CIP compliance is not currently a City requirement, the City would like security across the system to be NERC CIP compliant. Describe the level of such compliance provided.			
15.3	Security is required for public-facing applications, such as customer usage/profile data. Please describe the encryption method, key management process, related functions, and applicable standards for each system and device.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.4	For any other devices such as thermostats, streetlights, etc. included in the proposal, security is required. Please describe for each system and device the encryption method used, key management process, and any other related functions and any applicable standards.			
15.5	Is a security maintenance program in place? If so, describe the frequency of key updates, password updates, etc. Describe actions the City must take to maintain security, such as staff password management, customer portal account password management, etc.			
15.6	Describe third-party penetration testing performed on the system hardware, firmware, and software included in your proposal. Please state, when completed, any critical findings and frequency at which such testing is repeated. Also, describe how this testing was conducted and how often it is repeated.			
15.7	If a security event is detected, a process must exist to notify the City and support any customer questions/concerns. Describe this process.			
15.8	Has a security issue forced a component or system update in the past 12 months? If yes, describe that incident and the response.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.9	For managed services, please detail the location of servers, backup systems, and associated security plans—cyber and physical.			
15.10	Role-based security must be implemented to allow the City to restrict functionalities to various levels of its personnel to prevent unauthorized activities. An example of this is the water meter disconnect. This ability and other such critical functions must be able to be restricted by City-defined roles.			

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16 SYSTEM PERFORMANCE

Please fill out the table below.

Table 16-1. System Performance

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
General				
16.1	Excluding planned outages for maintenance, system operational availability shall be 99.9%.			
16.2	Describe all occurrences that could cause communications degradation and affect required read success rates and the percentage of bandwidth loss expected for each occurrence. This includes environmental issues such as rain, seasonal foliage changes, etc.			
16.3	The hosted AMI network shall be monitored for performance, with regular reports to the City of read success and other critical KPIs. Describe monitoring and reporting of the AMI network performance.			
Billing Demand Reads				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.4	Loss of any previous demand and consumption registers for demand meters shall be 0%. This may be achieved by retries that read previous demand registers if needed but no loss of demand data shall occur. Describe your electric meter demand reset and read process that ensures this level of performance. This requirement also applies to any meters that are configured for TOU with demand.			
Register and Load Profile (LP Interval) Reads				
16.5	Ninety-eight percent of electric and water LP data shall be read daily and be available by 1 AM. This is required for intervals as short as 5 minutes for all meters.			
16.6	A retry strategy shall automatically collect missing reads, ensuring 100% of register and LP data for any given day are read within 3 days.			
On Request Reads				
16.7	On-request reads from the head-end system for any metered or status quantity from any electric meters shall succeed in 10 seconds or less for 98% of attempts.			
16.8	For water meters, on-request reads shall succeed in 15 seconds or less for 98% of attempts. Describe the on-request read mechanics for water—values in real-time from the meter or last read value stored in a data concentrator or some other device.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.9	Low payload responses minimally including meter pings shall respond in 2 seconds or less 98% of the time.			
Disconnect/Reconnect				
16.10	Electric meter disconnect and reconnect requests shall occur after initiation with confirmation received within 30 seconds for 99% of requests. Any disconnect request must also return the current register read.			
16.11	Water meter disconnect and reconnect requests shall occur after initiation, with confirmation received within 1 minute for 99% of requests. Any disconnect request must also return the current register read.			
Outage/Restoration Information				
16.12	Individual electric meter outage and/or restoration shall be reported to the head-end system and viewable on the UI within 1 minute for 99% of occurrences.			
16.13	Outages and/or restorations including 200 meters or less shall all be reported to the head-end system and viewable on the UI within 1 minute for 99% of the affected meters.			
16.14	Large scale outages and/or restorations including up to the entire the City electric meter population shall be reported to the head-end system and viewable on the UI within 5 minutes for 99% of the affected meters.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.15	Text messages and emails sent as part of the outage and restoration information system shall be initiated within 1 minute of the head-end system receiving the related notification.			
Over the Air Firmware Updates				
16.16	Field devices shall continue their normal operation during a firmware update. Once the new firmware image has been completely received, the system shall include the ability for the City to switch to the new image on an individual device or group of devices. The download should take no more than 1 day per device, 2 weeks for all devices, and the switch should take less than 5 minutes.			
System Scalability				
16.17	System must be scalable to continue to satisfy the City's future needs throughout the managed services contract period. While no DA devices are planned to this point in the project, support for DA devices identified by proposer in numbers typical for a utility the size of the City must be supported in the future without degrading any of the system functionality implemented. Provide confirmation the proposed system meets this requirement and provide the assumptions made including number of DA devices assumed, type of devices and network bandwidth requirements for each.			

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17 FIELD INSTALLATION AND WORK ORDER MANAGEMENT SYSTEM

17.1 General

Please fill out the table below.

Table 17-1. General Project Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.1.1	Identify and describe the Proposer's prior experience with the planned installation subcontractor.			
17.1.2	Identify and explain any constraints or preferences the Proposer has regarding the order of installation of field devices (e.g., electric meters before water meters).			
17.1.3	The City will supply a list of VIPs to the Supplier's installer. Also, there are no medical disconnects. The installer will consider these items when scheduling appointments and managing customers.			
17.1.4	Describe the personal protective equipment used by installers. Also, describe field practices and the safety processes to ensure equipment is maintained, checked, and adequate for safe usage.			
17.1.5	The Proposer shall discuss how a temporary installer stand-down requested by the City would be implemented and include pricing in the supplied Pricing sheet.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	The City reserves the right to issue a stand down at no cost due to excessive or significant safety violations.			
17.1.6	The City will supply fenced storage and limited offsite office space for the Supplier's installation subcontractor. Describe the installer's needs in this area.			
17.1.7	The Supplier shall ensure that its installation subcontractor is provided with all training and documentation related to the Supplier's products needed to execute safe, high-quality installations of all devices.			
17.1.8	The Supplier or its subcontractor will supply all required field installation tools, including handhelds.			
17.1.9	Supplier will be responsible for resealing meters. Required seals and rings to be supplied by the City.			
17.1.10	The Supplier and its installation subcontractor shall use handhelds capable of scanning meter/module bar codes, and the WOMS must include processes that ensure that the bar code of the installed meter/module is scanned post-installation such that the data exported to the City's billing system is ensured to contain the correct meter to customer correlation. For water meters, this process must also ensure proper correlation of the meter module serial number to the water meter body serial number.			
17.1.11	The City's water account billing is organized into five billing cycle periods with fourteen manual			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	reading routes. The Supplier must work with the City to develop a strategy to avoid billing interference during installation. This may or may not require a billing blackout window. The Proposer shall provide its initial input to this approach as a part of their proposal.			
17.1.12	Handheld devices must be secure. Describe the security features enabled in installer handhelds.			
17.1.13	Installers shall use a mobile work-order management system to manage the meter deployment.			
17.1.14	The Installer WOMS system must retain access to all installation-related documentation (pictures, notes, account information, etc.) for 3 months after the conclusion of the deployment.			
17.1.15	Describe the integration process for establishing data exchange between the proposed WOMS system and the City's CIS system and ensuring these systems stay synchronized throughout the deployment process.			
17.1.16	The Proposer should describe the premise data that the City will need to provide per premise for use by the installer.			
17.1.17	The Proposer shall discuss how changes to the City's metering system data, such as new accounts, are communicated to the Supplier so they can update their Workorder systems during the project.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.1.18	The Proposer shall describe all meter programming data requirements the City must supply.			
17.1.19	The Proposer shall include in the supplied pricing sheet the pricing for the appropriate number of City-owned handheld devices required for the meter population in this RFP for future meter programming and troubleshooting required by City field personnel.			
17.1.20	Describe in detail the field and material management processes, including: • Receipt inspection. • New installer onboarding/training so the installer can install independently. • Safe driver training and instruction. • Material issuance to installers. • Inventory control and periodic true-up. • Return material authorization. • Return to utility process—number of attempts, etc.			
17.1.21	Describe the proposed due diligence process to ensure accounts that are not exchanged upon the initial site visit (e.g., Can't Complete) are systematically processed to maximize installation success rate. Please include: • Number of site visits (minimum of 2) • Number of calls for scheduling appointments including number of after-			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	hours calls (minimum of 3 calls with one being after-hours) • Proposed sequence of visits and calls including duration between events			
17.1.22	The installer must capture GPS coordinates for all field-installed devices and meters, upload them to the head-end system, and make them available for the outage visualization portal. Lat/Lon in decimal degrees is preferred, with a six-decimal place resolution collected at the point of the physical meter with accuracy dependent on the device used for collection. Sub-meter accuracy is not a requirement. Proposer to specify delivered accuracy at the point of the meter. Preferred accuracy is within 2 meters of the physical meter.			
17.1.23	The Supplier shall submit all proposed attachments to City-owned infrastructure for prior approval.			
17.1.24	The Supplier's installer shall provide pricing in the supplied pricing sheet for meter box remediation, including: • Leaks upon arrival (notify the City). • Meter box damage. • Box too low or high. • Tree root intrusion. • Apparent tampering (notify the City). • Safety concerns. • Sites requiring repairs. • Obstructed meters.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	• Damaged electric service entrance			
17.1.25	The City desires that the installation portion of this project be turnkey to the extent possible. As such, the Proposer should include pricing in the supplied pricing sheet and other blocking conditions that the installer has encountered in other projects.			
17.1.26	The Supplier will provide pricing in the supplied pricing sheet for replacement lids and meter boxes to repair damaged units encountered during deployment. The City will provide the purchasing standard for these items.			
17.1.27	The Supplier will provide pricing in the supplied pricing sheet for remedying meter boxes substantially below or above grade.			
17.1.28	The Supplier will provide pricing in the supplied pricing sheet for remediation of any as-found damage/deficiencies in plumbing connections including materials.			
17.1.29	The Supplier will provide pricing in the supplied pricing sheet for remediation of meter yokes or risers that are encountered in need of repair. Bidder to provide replacement materials.			
17.1.30	Standard working hours for installation activities are Monday-Friday, 7 AM to 4 PM (last install). Fieldwork outside these hours, including weekends, must have prior approval from the City.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	While not preferred, weekend work can be supported if needed to remediate the project schedule.			
17.1.31	The Supplier to describe its Quality Assurance (QA) field installation audit process. Provide details demonstrating that audits are conducted by an independent auditor (prevent self-audit), randomization such that all installers are periodically audited, target audit percentages (% of installs) throughout the deployment period, and typical items that are audited as part of the process.			

17.2 Return Material Authorization (RMA) Process

Please fill out the table below.

Table 17-2. RMA Process Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.2.1	Describe the RMA process used during installation and afterward by the City. Describe the process for products under and out of warranty. Include each type of device provided by the Proposer.			
17.2.2	Describe the level of root cause analysis provided with each RMA returned to the City.			
17.2.3	Describe the historical RMA turnaround times for each device type proposed for this project.			

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17.3 Call Center

Please fill out the table below.

Table 17-3. Call Center

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.3.1	Describe the call center process to be used during installation for appointment scheduling. This includes appointment scheduling from customer call-ins as well as call center staff pro-actively calling customers to setup appointments.			
17.3.2	Describe the customer complaint resolution from the initial call to the final issue resolution.			
17.3.3	Describe how this call center will be integrated with the City's call processes. Describe the ability to access call center records, including notes taken at calls.			
17.3.4	Describe hours of call center operation and support for after-hour calls (5 PM to 8 PM).			
17.3.5	Describe and provide any scripted responses used by the call center.			
17.3.6	Describe the call center recording process for recording calls between representatives and customers.			
17.3.7	Describe the call center issue escalation process.			
17.3.8	Describe your customer notification and scheduling process and the call center's role.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.3.9	Describe all planned door hanger notifications, their placement time, and their content.			
17.3.10	Describe all planned customer notification letters, the time they were sent, and their content.			
17.3.11	Call center personnel should have visibility into the WOMS field scheduling for informed customer discussions.			
17.3.12	Describe all call center audits and processes for corrective measures.			

17.4 Scrap Material

Please fill out the table below.

Table 17-4. Scrap Materials

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.4.1	The Supplier will process all scrap meters and City-owned scrap materials (electric meters, water meters, water modules) on a mutually agreeable periodic basis. The City does not have a retention requirement for legacy meters prior to disposal. Picture documentation will be utilized to address any customer questions.			
17.4.2	All disposal permitting (including for batteries) is the Supplier's responsibility.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.4.3	The Supplier will provide an option for disposing of water and electric meters for a set administrative fee while providing remaining credits to the City for acceptable scrap value of materials. Credits would be offset from outstanding invoices.			

17.5 Personnel

Please fill out the table below.

Table 17-5. Project Personnel Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.5.1	The Supplier will be responsible for the complete training of their installation contractor personnel. Describe that training, including safety and QA aspects. Describe the incremental qualifications required for transformer rated electric installers, larger commercial or compound water meters.			
17.5.2	Describe the field supervision structure envisioned for the installation phase of this project.			
17.5.3	The Supplier's installation subcontractor personnel must wear a picture identification badge that is visible to customers. Describe this badging process.			
17.5.4	The Supplier's installation subcontractor personnel must be uniformly dressed and drive vehicles easily identifiable with the company name and logo. Describe how this will be implemented. Project-			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	specific signage must be reviewed and approved by the City.			
17.5.5	Describe the installation subcontractor background and drug testing processes.			
17.5.6	The City shall have the right to deny installers access to City property and request their removal from the project for any reason.			
17.5.7	The Supplier's installation subcontractor personnel must be fluent in the English language.			

17.6 Safety and Environmental

Please fill out the table below.

Table 17-6. Safety and Environmental Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.6.1	The safety of the City's customers, employees, and subcontractors is paramount. Personnel safety only supersedes environmental protection as a City concern. The City expects all Supplier and/or subcontract personnel on City property to observe the City's safety and environmental processes and all applicable state and federal rules and regulations.			
17.6.2	The Supplier's installation subcontractor shall have a documented safety training program to which all installers must adhere. Provide this document if a subcontractor has been selected.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.6.3	All safety issues or accidents during installation must be reported to pre-established/agreed City staff and organizations immediately. Provide this proposed process.			
17.6.4	The Supplier must provide the required safety training to all installers. The installer/Supplier shall provide OSHA 300 reporting. Training shall include, at a minimum, electrical and arc flash hazards.			
17.6.5	Describe your overall safety program, including training, protective gear/PPE issuance and maintenance, audits, reporting, etc.			
17.6.6	Describe your safety driving training program (e.g., Smith Driving or equivalent).			

17.7 AMI Electric Meters

Please fill out the table below.

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.7.1	The Supplier's installation subcontractor shall follow a process to ensure electric AMI meters are readable from the head-end system post-installation before invoicing.			
17.7.2	The City has some net-metered customers now and expects more to be added. These customers will have a meter that is configured to read delivered and received energy. It is anticipated that all AMI electric meters will have the ability to meter delivered and			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	received energy. How will any net-metered customers be identified to the installer such that delivered and received energy is delivered to the head-end and made available for billing? Proposer to describe process.			
17.7.3	Supplier shall be responsible for defining logistics and managing meter base repairs (e.g., meter box, lid, internal components, overhead service line, or other condition requiring repair). Supplier shall utilize a licensed local electrician to ensure that all work is completed to the City's standards.			

17.8 AMI Water Meters

Please fill out the table below.

Table 17-7. AMI Water Meters Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.8.1	The Supplier's installation subcontractor shall follow a process to ensure water AMI meters are readable from the head-end system post-installation before invoicing.			
17.8.2	The Supplier shall be responsible for defining logistics and managing all plumbing repairs encountered during installation (e.g., valves, broken pipes, etc.,) including materials. The Supplier shall use a locally licensed plumber to ensure all work is completed to the City's			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	standards. Pricing for repairs shall be included in the supplied pricing sheet.			

17.9 Network

Please fill out the table below.

Table 17-8. Non-Metering Network Device Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.9.1	The Supplier's installation subcontractor shall follow a process to ensure all non-metering network devices communicate with the head-end system post-installation before invoicing.			

17.10 Photos

Please fill out the table below.

Table 17-9. Photo-Documentation Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.10.1	The installation subcontractor shall obtain before and after photos of all meters. The photos must include clear views of the meter register reading and serial number.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.10.2	The Proposer shall describe the file naming convention and process for capturing and storing these photos. All photos and other site data will be provided to the City via mutually agreeable secure media at the end of the project. They shall be easily searchable and tied to an agreed account reference/key. The City shall have access to site photos during the rollout within 2 days of each installation.			
17.10.3	All photos will be date and time-stamped and geotagged.			
17.10.4	The installer will purge all City-specific data, including photos from its system and handhelds after the archive is delivered at the end of the project.			

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18 ACCEPTANCE TESTING

Please fill out the table below.

Table 18-1. Acceptance Testing Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
18.1	The Supplier will submit a functional acceptance test plan to allow the City to verify the functionality defined in this specification, including integrations to City systems as specified herein.			
18.2	The meter system test fixture (defined previously) will be used to support functional acceptance testing. As such, the Supplier should ensure this board is populated with all devices needed to test the system fully.			
18.3	If special test equipment is needed to exercise a system function, the Supplier shall loan such devices to the City for the test duration.			
18.4	Functional acceptance testing will be performed successfully before deploying field hardware.			
18.5	The City intends that meters configured to their requirements, including nameplates, be tested as a part of the functional acceptance testing. The Supplier must ensure meters meeting City requirements are populated on the meter system test fixture.			

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18.6	The Supplier will submit a final acceptance test plan to allow the City to verify the functionality defined in this specification, including integrations to City systems as specified herein, with most field meters deployed.			
18.7	Final system acceptance testing (SAT) will be conducted when 95% or more field meters are deployed. The test shall confirm the system's operational readiness and resolve any outstanding issues from the functional acceptance testing.			
18.8	As the pricing section notes, system payments are governed by passing the initial and final acceptance testing. Mutually agreed-upon percentage completions govern field device and installation costs.			

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19 TRAINING

Please fill out the table below.

Table 19-1. Training Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
19.1	Please list all applicable training courses to be provided on-site, via the Internet and off-site locations. Also, list refresher training(s) and the number of trainees permitted. All training must be comprehensive enough to ensure City staff can effectively install all products offered and operate all systems and software. Topics that must be covered in the training include, but are not limited to, the following: • Meter installation. • Meter troubleshooting. • Meter configuration. • Handheld usage. • Network components. • An overview of the AMI product and head-end software. • System operations and troubleshooting, including interactions among endpoints and network devices, network devices, and the AMI head-end, as well as interaction between the AMI head-end and other system components such as MDM Lite, OMS, and customer portal. • Identification, management, and resolution of events and alarms. • Customer portal administration.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	• Tyler ERP Pro system integration usage.			
19.2	Provide a typical training schedule that contains lessons, suggested attendees, and durations.			
19.3	The number of trainees allowed for any or all types of training must be clearly defined in the Proposer's responses. Provide a training plan which outlines the requirements listed above. The plan should include facilities and/or resources required.			
19.4	At the end of training, maintenance personnel will understand proper installation and maintenance procedures, as well as the use of the AMI head-end software system.			
19.5	Describe the training materials to be provided for each course.			
19.6	Describe the availability of refresher training and future training for new employees.			

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20 CONTRACTUAL OBLIGATIONS AND WARRANTIES

Please fill out the table below.

Table 20-1. Contractual Obligations and Warranty Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.1	Water meter/module water ingress failures are critical problems. The Proposer should identify any projects where they have experienced water meter/module failure that resulted from water ingress. Describe the situation(s) in detail, including how the issue was resolved for each project and how the product was modified due to this issue.			
20.2	Proposer to provide historical annualized hardware failure rates over the last 3 years for the 2S electric meter being proposed. Failure rate = (failed meters that were produced in year x)/ (total meters produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.3	If the electric meters use a separately manufactured communication module, Proposer to provide historical annualized hardware failure rates over the last 3 years for the communication module used in the proposed electric meters. Failure rate = (failed modules that were produced in year x)/ (total modules produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.4	The Proposer will provide historical annualized hardware failure rates over the last 3 years for the proposed residential water meter modules. Failure rate = (failed modules produced in year x)/ (total modules produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.5	The Proposer will provide historical annualized hardware failure rates over the last 3 years for proposed collection points and network communication equipment. Failure rate = (failed units produced in year x)/ (total units produced in year x). If you cannot provide the exact answer, is the rate less than 1%?			
20.6	Supplier shall provide a 5-year warranty on electric meters beginning at completion of installation.			
20.7	The Supplier shall provide a 20-year warranty on battery-powered devices such as water meter modules. Any warranty replacements under this warranty shall not involve wire splicing.			
20.8	The Supplier shall guarantee all system components are supported through the expected 10-year term of the managed services agreement.			
20.9	The Supplier shall guarantee all system components are backward compatible for up to 15 years.			
20.10	Proposer shall state terms and costs for optional extended warranties for each category of field-installed equipment in the supplied pricing worksheet.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.11	The Supplier shall be responsible for broad-based device failures exceeding 5% of any installed device category in a rolling 12-month period. The remedy shall be the complete replacement of all potentially affected devices, including field in/out costs for the affected population.			
20.12	Provide a detailed list of all subcontractors planned to service this implementation.			
20.13	The Proposer will describe what post-contract mobilization and end-of-project demobilization efforts look like.			
20.14	The Supplier will obtain any required FCC radio licenses on behalf of the City, which will be valid for 20 years. License pricing will be reflected in the base price or the monthly managed services fee.			
20.15	The Supplier will obtain all required sub-supplier software licenses on behalf of the City, which will be integrated with the pricing shown for their products.			
20.16	Any materials delivered to the City as a part of this project will be contracted as Freight on Board the City delivery point.			
20.17	The City reserves the right to sample test any lot shipment received.			
20.18	The data must always reside inside the United States for all systems and services provided.			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.19	The AMI system shall not be interfered with by any other RF signals related to commonly deployed FCC-compliant technology (i.e., home electronics and home RF devices, such as wi-fi, appliances, cellular telecommunications devices, etc.). Resolution of such interference is 100% the Supplier's responsibility throughout the anticipated 10-year term of a managed services agreement.			
20.20	The Proposer shall provide a draft contract for deployment/managed services—a full unexecuted copy of a standard managed services and/or deployment contract. Please note that this requirement does not imply acceptance of any Proposer wording.			

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21 SCHEDULE

Please fill out the table below.

Table 21-1. Project Schedule Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
21.1	The Proposer will provide a project plan, including an initial schedule showing relevant milestones and the City's initial planning elements, as shown in Table 21-2 and in line with the overall timeframes presented in Exhibit A Section 2.2. The Proposer's installation subcontractor and City staffing requirements should be identified in the schedule based on resource count and skill set.			
21.2	The project schedule will be refined with the selected Supplier as a part of contract negotiation.			

Table 21-2 defines Wauchula's broad schedule plan for input to the Proposer's proposed project plan.

Table 21-2. Wauchula Conceptual Schedule Elements

Project Phase	Anticipated Activities
Kick-off meeting	• Contract deliverables review. • Overall project plan. • Communications plan. • Deployment plan.

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Project Phase	Anticipated Activities
	• Additional information requirements. • Review proposed KPI and metrics for deployment success. • Training plan. • Safety plan.
Meter system test fixture development	• System test fixture design. • System test fixture construction. • System test fixture usage in testing, training, SAT, and customer education.
System test planning	• Functional System Acceptance Test (FSAT) plan. • Final System Acceptance Test (SAT) plan.
Material logistics	• Discuss shipping and receipt plan. • Discuss the RMA process.
Customer engagement, stakeholder outreach, and education	• Town hall or public meeting materials. • Communications strategy and execution. • Collateral to address negative perceptions of AMI (e.g., privacy invasion). • The City (internal) touchpoints to ensure buy-in from across all staff that the new platform will impact. • Other change management tactics and strategies deemed appropriate.
Hardware specification and meter configuration	• Discuss configuration option decisions to be made by the City, including all meter labeling and configuration issues.
Systems integration	• Installation of meters and other hardware elements and integration of all proposed software with the City's existing platforms, with full testing of all critical functions (e.g., monthly billing) in preparation for acceptance testing. • Acceptance testing (initial and final) as described above in this RFP.
Managed services administration	• Administer all software and maintain reliable points of contact for City inquiries. • Other managed services offerings as defined herein (i.e., ad hoc services or analytics) or via the Supplier's suite of services.

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22 SUPPORT SERVICES

Please fill out the table below.

Table 22-1. Support Services

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
22.1	The Supplier will provide adequate project support personnel for the project's duration, including a project manager (PM). The Proposer will describe the proposed organizational structure, identify individuals involved, and provide resumes and industry background information for those individuals. Proposer to describe anticipated on-site durations for their PM for various project phases. Please note that the City expects a significant PM presence on-site during FSAT. The City shall have the ability to approve the project manager and/or suggest a new project manager if required.			
22.2	The Supplier and/or its installation subcontractor are responsible for all files imported into the head-end system to allow the system to recognize and register meters as they are installed. Training for the City			

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	must include managing this process before and after project completion.			
22.3	The Supplier will support the City in redesigning business processes and define required/no longer required employee roles that can be repurposed related to the AMI program. The Proposer shall describe typical levels of engagement and support in this area.			
22.4	Several system integrations are required to be provided by the Supplier, as described in Exhibit A Section 14. The Proposer will include pricing for these services in its AMI proposal in the supplied pricing sheet.			
22.5	The Supplier will provide adequate support should emergency conditions occur during field deployment (e.g., hurricane). The Proposer shall provide details on emergency response operations to maintain the City's business continuity.			

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Item
1
2
3
4
5
6

NOTICE:
RFP No. 2

Bidder Instructions

Description
Please provide all pricing in appropriate QTY and/or Unit Price Cells. Cells in Subtotal/Total columns are populated with appropriate formulas to compute totals where possible.
If a price is not to be provided, please indicate none is provided and provide comments. Do not leave blanks for requested pricing.
Do not include references to other documentation for pricing. All pricing must be included in this sheet.
Managed services are required for a 10 year period. Please provide pricing accordingly. If multiple system components are being proposed, a single managed services fee for the system is to be included. Multiple managed services fees will not be accepted rather a single fee for the SYSTEM is required.
Pricing Summary Tab will auto-populate subtotals from relevant sheets. Do not modify these references.
Please provide proposed payment plan in the "Proposed Payment Plan" tab worksheet.

This document has been created for the City of Wauchula, Florida to be used only for the Request for Proposals 24-05. Use in any other circumstances is prohibited.

One-T

Category	Area
Hardware	Mechanical Measurement Water Meters w/AMI
	No Moving Parts Water Meters w/AMI
	Meter Retrofits w/ AMI Module
	Meter with Remote Disconnect Option (5/8 x 3/4")
	Water System Points Metering Option - Retrofit
	Water System Points Metering Option - Replace
	Electric Meters w/AMI
	Communications
	Distribution Automation Options
	Non-metering Edge Devices
	System Test Fixtures
	Spare Parts
	Other Misc Hardware
	Hardware Total
Materials	Field Devices
	Field Materials
	Materials Total
Delivery Services	System Integrations Delivery Services
	Training Delivery Services
	Supplier Project Delivery Services
	Delivery Services Total
Field Installaton Services	Field Install of Water Meters w/ AMI
	Field Installation Meter Retrofits w/ AMI Module
	Field Install of Water System Metering Retrofit Option
	Field Install of Water System Metering Replace Option
	Field Install of Electric Meters
	Field Install of Communications
	Field Install Non-Metering Edge Devices
	Field Install Project Management
	Field Remediations Services
	Warehousing Services
	Material Recycling & Disposal
	Miscellaneous
	Field Installaton Services Total
One-Time Pricing TOTAL	

Recur

Reference	Area
Software as a Service (Saas) Fees	Total Service Fees for Years 1–10
Network as a Service (NaaS) Fees	Total Service Fees for Years 1–10
Recurring Miscellaneous	Recurring Miscellaneous
Recurring Pricing TOTAL	

GRAND TOTAL	

ime Pricing Summary

Subtotal	City Comments/Clarifications
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
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$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

ring Pricing Summary

Subtotal	City Comments/Clarifications
$0.00	
$0.00	
$0.00	
$0.00	

$0.00	

Proposer Comments/Clarifications

Proposer Comments/Clarifications

Item	Area
1	Displacement Water Meters w/AMI
2	Displacement Water Meters w/AMI
3	Displacement Water Meters w/AMI
4	Displacement Water Meters w/AMI
5	Displacement Water Meters w/AMI
6	Displacement Water Meters w/AMI
7	Displacement Water Meters w/AMI
ST	***Mechanical Measurement Water Meters w/AMI***
1	Non-displacement Water Meters w/AMI
2	Non-displacement Water Meters w/AMI
3	Non-displacement Water Meters w/AMI
4	Non-displacement Water Meters w/AMI
5	Non-displacement Water Meters w/AMI
6	Non-displacement Water Meters w/AMI
7	Non-displacement Water Meters w/AMI
ST	***No Moving Parts Water Meters w/AMI***
1	Field Retrofit of Meters w/AMI
ST	***Meter Retrofits w/ AMI Module***
1	Water Meters w/AMI (w/remote disconnect)
ST	***Meter with Remote Disconnect Option (5/8 x 3/4")***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Water System Points Metering Option - Retrofit***
1	Well #1 flow meter

2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Water System Points Metering Option - Replace***
1	Electric Meters w/AMI
2	Electric Meters w/AMI
3	Electric Meters w/AMI
4	Electric Meters w/AMI
5	Electric Meters w/AMI
6	Electric Meters w/AMI
7	Electric Meters w/AMI
8	Electric Meters w/AMI
9	Electric Meters w/AMI
ST	***Electric Meters w/AMI***
1	Communications
2	Communications
3	Communications
4	Communications
5	Communications
6	Communications
7	Communications
ST	***Communications***
1	Distribution Automation Devices
2	Distribution Automation Devices
3	Distribution Automation Devices
4	Distribution Automation Devices
5	Distribution Automation System Components
6	Distribution Automation System Components
7	Distribution Automation Services
8	Distribution Automation Services
9	Distribution Automation Services
10	Distribution Automation Services
11	Distribution Automation Services

ST	***Distribution Automation Options***
1	Non-metering Edge Devices
2	Non-metering Edge Devices
3	Non-metering Edge Devices
4	Non-metering Edge Devices
5	Non-metering Edge Devices
6	Non-metering Edge Devices
7	Non-metering Edge Devices
8	Non-metering Edge Devices
ST	***Non-metering Edge Devices***
1	System Test Fixtures
2	System Test Fixtures
3	System Test Fixtures
4	System Test Fixtures
ST	***System Test Fixtures***
1	Spare Parts
2	Spare Parts
3	Spare Parts
4	Spare Parts
5	Spare Parts
6	Spare Parts
7	Spare Parts
8	Spare Parts
9	Spare Parts
10	Spare Parts
ST	***Spare Parts***
1	Other Misc Hardware
2	Other Misc Hardware
3	Other Misc Hardware
4	Other Misc Hardware
5	Other Misc Hardware
6	Other Misc Hardware
7	Other Misc Hardware
8	Other Misc Hardware

9	Other Misc Hardware
10	Other Misc Hardware
ST	***Other Misc Hardware***
Total	***All Hardware***

Item	**Area**
1	Field Devices
2	Field Devices
3	Field Devices
4	Field Devices
5	Field Devices
ST	***Field Devices***
1	Field Materials
2	Field Materials
3	Field Materials
4	Field Materials
5	Field Materials
6	Field Materials
7	Field Materials
8	Field Materials
9	Field Materials
10	Field Materials
ST	***Field Materials***
Total	***All Field Materials***

Item	**Area**

Item	Area
1	Integration Services Support
2	Billing System Integration
3	WOMS System Integration
4	GIS LAT/LON Integration
5	Customer Portal Integartion
6	System Integrations
ST	***System Integrations***
Total	***System Integrations Delivery Services***

Item	Area
1	Systems Training (Head-End, Comms, Portal etc)
2	Field Training
3	Tools Training
4	Other (specify)
5	Other (specify)
6	Other (specify)
ST	***Training Delivery Services***
Total	***Training Delivery Services***

Item	Area
1	Program & Project Management
2	Business Process Support
3	Project Delivery Support
4	Ad-hoc Analytical Services (if applicable)

5	NaaS One Time Setup (if applicable)
6	SaaS One Time Setup (if applicable)
7	Other (specify)
8	Other (specify)
9	Other (specify)
ST	***Supplier Project Delivery Services***
Total	***Supplier Project Delivery Services***

Item	**Area**
1	Field Install of Water Meters w/ AMI
2	Field Install of Water Meters w/ AMI
3	Field Install of Water Meters w/ AMI
4	Field Install of Water Meters w/ AMI
5	Field Install of Water Meters w/ AMI
6	Field Install of Water Meters w/ AMI
7	Field Install of Water Meters w/ AMI
8	Field Install of Water Meters w/ AMI
ST	***Field Install of Water Meters w/ AMI***
1	Field Retrofit of Meters w/AMI
ST	***Field Installation Meter Retrofits w/ AMI Module***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Field Install of Water System Metering Retrofit Option***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter

5	Well #5 flow meter
6	Outflow meter #6
ST	***Field Install of Water System Metering Replace Option***
1	Electric Meters w/AMI
2	Electric Meters w/AMI
3	Electric Meters w/AMI
4	Electric Meters w/AMI
5	Electric Meters w/AMI
6	Electric Meters w/AMI
7	Electric Meters w/AMI
8	Electric Meters w/AMI
9	Electric Meters w/AMI
ST	***Field Install of Electric Meters***
1	Field Install of Communications
2	Field Install of Communications
3	Field Install of Communications
4	Field Install of Communications
5	Field Install of Communications
6	Field Install of Communications
ST	***Field Install of Communications***
1	Field Install Non-Metering Edge Devices
2	Field Install Non-Metering Edge Devices
3	Field Install Non-Metering Edge Devices
4	Field Install Non-Metering Edge Devices
5	Field Install Non-Metering Edge Devices
ST	***Field Install Non-Metering Edge Devices***
1	Field Installation Project Management
2	Installation Stand-down cost
3	Other (specify)
4	Other (specify)
5	Other (specify)
ST	***Field Install Project Management***

1	Meter Box & Lid Replacement (single meter in box)
2	Meter Box & Lid Replacement (dual meter in box)
3	Meter Lid Replacement
4	Meter Lid Drilling
5	Meter Box Grading (significant below/above grade)
6	Meter Box Repositioning
7	Curb Stop Replacement
8	Meter yoke / riser replacement
9	Other box related (vacuum sand)
10	Plumbing Repairs / Plumbing connections repairs
11	Electrical Meter Base Repairs
ST	***Field Remediations Services***
1	Warehousing Services
2	Warehousing Services
3	Warehousing Services
4	Warehousing Services
ST	***Warehousing Services***
1	Water Meter Disposal
2	Water Meter Recycling
3	Electric Meter Disposal
4	Hazardous Waste Disposal
5	Other (specify)
6	Other (specify)
7	Other (specify)
ST	***Material Recycling & Disposal***
1	Miscellaneous
2	Miscellaneous
3	Miscellaneous

4	Miscellaneous
5	Miscellaneous
ST	***Miscellaneous***
Total	***Field Installation Services***

T	**Total One-Time Pricing**

Hardware (One Time Pricing as Rec

Description	Quantity	Unit Price
Mechanical Measurement Water Meters w/ AMI - Pricing with		
5/8 x 3/4" inch	2,400	
1" inch	250	
1.5" inch	36	
2" inch	85	
3" inch	7	
4" inch	8	
Other (specify)		
Subtotal	***2,786***	
No Moving Parts (Ultrasonic/Electromagnetic) Water Meters w/AMI - Pric		
5/8 x 3/4" inch	2,400	
1" inch	250	
1.5" inch	36	
2" inch	85	
3" inch	7	
4" inch	8	
Other (specify)		
Subtotal	***2,786***	
Meter Retrofits w/ AMI		
Module for Kamstrup FlowIQ (2100 and 3101 models)	500	
	500	
Meter with Remote Disconnect Op		
5/8 x 3/4" inch	12	
Subtotal	***12***	
Water System Points Metering Option (R		
Water Specialties 6-inch Serial No 902296 (retrofit)	1	
Water Specialties 6-inch Serial No 20121600-06 (retrofit)	1	
Water Specialties 10-inch Serial No 902298-10 (retrofit)	1	
Water Specialties 12-inch Serial No 20083006-12 (retrofit)	1	
Krohne Serial 12-inch C102929 (retrofit)	1	
Krohne Serial 10-inch No C10-1542 (retrofit)	1	
Subtotal	***6***	
Water System Points Metering Option (R		
Water Specialties 6-inch Serial No 902296 (replace)	1	

Water Specialties 6-inch Serial No 20121600-06 (replace)	1	
Water Specialties 10-inch Serial No 902298-10 (replace)	1	
Water Specialties 12-inch Serial No 20083006-12 (replace)	1	
Krohne Serial 12-inch C102929 (replace)	1	
Krohne Serial 10-inch No C10-1542 (replace)	1	
Subtotal	***6***	
	Electric Meters w/ AMI (Meter	
2S CL200	2,592	
2S CL320	32	
3S CL20	4	
4S CL20	16	
9S CL20	52	
12S CL200	32	
16S CL320	100	
25S CL200	4	
46S CL20	56	
Subtotal	***2,888***	
	Communications (Collectors, Gateways, Repeat	
Network collection points (e.g. Gateways/collectors)		
Network transceivers		
Network repeaters		
Backhaul		
Network support for Test Environment Option		
Cellular (if applicable, specify)		
Other (specify)		
Subtotal	***0***	
	Distribution Automation	
Voltage Regulators		
Faulted Circuit Indicator (FCI)		
Recloser		
Capacitor Bank Controllers		
DA Hardware		
DA Software		
Renewables/DER Support		
Integration services if needed		
Other (specify)		
Other (specify)		
Other (specify)		

Subtotal	***0***	
		Non-metering Edge Devices (e.g. Intellige
Intelligent water level sensors	3	
Water temperature sensors	3	
Water pressure sensors	3	
Acoustic leak detection sensors	1	
Intelligent Edge Gateway	3	
Streetlight Controller	2	
Other (specify)		
Other (specify)		
Subtotal	***15***	
		System Test Fixtures (Water, Electric, Gas test and
Water Test & Demonstration Fixture	1	
Electric Test & Demonstration Fixture	1	
Other (specify)		
Other (specify)		
Subtotal	***2***	
		Spare Parts
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Other Misc Hardwa
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		

Other (specify)		
Other (specify)		
Subtotal	***0***	
Total		

Materials (One Time Pricing as Rec

Description	Quantity	Unit Price
Field Devices (E.g. Handhelds, Meter		
Handheld units to read meters locally		
Devices to troubleshoot/program/upgrade meters locally		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
Field Materials (E.g. magnets, bolts, screws, seals, locks, doorhangers, ma		
Lids for Water Meter boxes (1 unit AMI ready)		
Lids for Water Meter boxes (2 unit AMI ready)		
Water Meter boxes		
Misc Plumbing Remediation Parts		
Meter yokes		
Mailers for customer notification		
Doorhangers for customer notification		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

System Integration Delivery Services (One Time

Description	Quantity	Unit Price

Description	Quantity	Unit Price
System Integrations (One Time Pricing as R		
Proposer to define	1	
Proposer to define	1	
Proposer to define	1	
Proposer to define	1	
Proposer to define	1	
Other (specify)		
Subtotal	***5***	
TOTAL		

Training Delivery Services (One Time Pricin

Description	Quantity	Unit Price
Training Delivery Services (One Time Pricing as		
Proposer to define		
Proposer to define		
Proposer to define		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

Supplier Project Delivery Services (One Time P

Description	Quantity	Unit Price
Supplier Project Delivery Services (One Time Pricin		
Proposer to define		
Support for re-engineering existing processes as needed to support the AMI solution		
Proposer to define		
Proposer to define		

Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Subtotal	***0***	
TOTAL	***0***	

Field Installation Services (One Time Pricin

Description	Quantity	Unit Price
Field Installation of Water Meters		
5/8 x 3/4" inch	2,400	
1" inch	250	
1.5" inch	36	
2" inch	85	
3" inch	7	
4" inch	8	
Other (specify)		
Other (specify)		
	2,786	
Field Installatin of Meter Retrofits		
Module for Kamstrup FlowIQ (2100 and 3101 models)	500	
	500	
Field Installation of Water System Mete		
Water Specialties 6-inch Serial No 902296 (retrofit)	1	
Water Specialties 6-inch Serial No 20121600-06 (retrofit)	1	
Water Specialties 10-inch Serial No 902298-10 (retrofit)	1	
Water Specialties 12-inch Serial No 20083006-12 (retrofit)	1	
Krohne Serial 12-inch C102929 (retrofit)	1	
Krohne Serial 10-inch No C10-1542 (retrofit)	1	
	6	
Field Installation of Water System Met		
Water Specialties 6-inch Serial No 902296 (replace)	1	
Water Specialties 6-inch Serial No 20121600-06 (replace)	1	
Water Specialties 10-inch Serial No 902298-10 (replace)	1	
Water Specialties 12-inch Serial No 20083006-12 (replace)	1	

Krohne Serial 12-inch C102929 (replace)	1	
Krohne Serial 10-inch No C10-1542 (replace)	1	
	6	
		Field Installation of Electri
2S CL200	2592	
2S CL320	32	
3S CL20	4	
4S CL20	16	
9S CL20	52	
12S CL200	32	
16S CL320	100	
25S CL200	4	
46S CL20	56	
	2,888	
		Field Installation of Commu
Network Collection Point Installation		
Network Repeater Installation		
Backhaul Infrastructure (If applicable)		
Other (specify)		
Other (specify)		
Other (specify)		
	0	
		Field Installation of Non-Meteri
Install Intelligent Water Sensors		
Install Intelligent Sensor Gateways		
Other (specify)		
Other (specify)		
Other (specify)		
	0	
		Field Installation Project Ma
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
	0	
		Field Remediations Services (pump box, box rep

Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Subtotal	***0***	
		Warehousing Servic
Warehousing for Mass Deployment		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Material Recycling & Di
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Miscellaneous
Other (specify)		
Other (specify)		
Other (specify)		

Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

Total	

quired per Specifications)

Total	City Comments / Clarifications
Single Port AMI Module (Meter Replacements)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
ing with Single Port AMI Module (Meter Replacements)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
Module	
$0.00	
$0.00	
tion (5/8 x 3/4")	
$0.00	Proposer to specify
$0.00	
ETROFIT existing meters)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
EPLACE existing meters)	
$0.00	Proposer to provide new meter replacement

$0.00	Proposer to provide new meter replacement
$0.00	Proposer to provide new meter replacement
$0.00	Proposer to provide new meter replacement
$0.00	Proposer to provide new meter replacement
$0.00	Proposer to provide new meter replacement
$0.00	
Replacements)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
ters, Radios, Base Stations etc)	
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Tower/Base station/etc. equipment
$0.00	Specify any required comm hardware to support the Test Environment
$0.00	Specify any field equipment if required for cellular option. Monthly cell charges are to be listed under Recurring Misc.
$0.00	
$0.00	
Options	
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	
$0.00	
$0.00	

$0.00	
nt Water Level Sensors)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
demo boards, carts and fixtures)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	Proposer to recommend
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
re	
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$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

$0.00	
$0.00	
$0.00	
$0.00	

quired per Specifications)

Total	City Comments / Clarifications
Reading devices etc)	
$0.00	Proposer to indicate recommended quantities for this size implementation.
$0.00	Proposer to indicate recommended quantities for this size implementation.
$0.00	
$0.00	
$0.00	
$0.00	
ilers, postcards, water box, lids, waste & spoils, salvage)	
$0.00	Per unit as approved.
$0.00	Per unit as approved.
$0.00	Per unit as approved.
$0.00	Per unit as approved
$0.00	Per unit as approved
$0.00	Per unit as approved
$0.00	Per unit as approved
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

Pricing as Required per Specifications)

Total	City Comments / Clarifications

Total	City Comments / Clarifications
equired per Specifications)	
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	
$0.00	
$0.00	

g as Required per Specifications)

Total	City Comments / Clarifications
s Required per Specifications)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

ricing as Required per Specifications)

Total	City Comments / Clarifications
ng as Required per Specifications)	
$0.00	
$0.00	
$0.00	
$0.00	

$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

g as Required per Specifications)

Total	City Comments / Clarifications
with AMI modules	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
w/ AMI Module	
$0.00	
$0.00	
ering RETROFIT Option	
$0.00	Retrofit existing meter
$0.00	Retrofit existing meter
$0.00	Retrofit existing meter
$0.00	Retrofit existing meter
$0.00	Retrofit existing meter
$0.00	Retrofit existing meter
$0.00	
ering REPLACE Option	
$0.00	Install new meter
$0.00	Install new meter
$0.00	Install new meter
$0.00	Install new meter

$0.00	Install new meter
$0.00	Install new meter
$0.00	
c Meters	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
unications	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
g Edge Devices	
$0.00	Provide pricing should City desire to install gateways & sensors in the field
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
anagement	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
placement, meter base repairs)	

$0.00	Per unit as approved.
$0.00	Per unit as approved.
$0.00	Per unit as approved.
$0.00	Per unit as approved. Only required for exceptions that may not be replaced. Provide itemized labor
$0.00	Per unit as approved. Provide itemized labor (per City standards) pricing
$0.00	Per unit as approved. Provide itemized labor (per City standards) pricing
$0.00	Per unit as approved. Provide itemized labor and material (per City standards) pricing
$0.00	Per unit as approved.
$0.00	Per unit as approved. Provide itemized labor and material (per City standards) pricing
$0.00	Per unit as approved. Provide itemized labor and material (per City standards) pricing. Local licensed plumber to be used
$0.00	Per unit as approved. Local licensed electrician to be used
$0.00	
ces	
$0.00	Supplier to provide optional pricing for Warehousing
$0.00	
$0.00	
$0.00	
$0.00	
sposal	
$0.00	
$0.00	Salvage Credit / Recycle Credit provided against outstanding invoices. Specify any administrative fees.
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

$0.00	
$0.00	
$0.00	
$0.00	

$0.00	

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Softw

Item	Annual Service Fee	Monthly Fee	Yearly
1	Year 1		
2	Year 2		
3	Year 3		
4	Year 4		
5	Year 5		
6	Year 6		
7	Year 7		
8	Year 8		
9	Year 9		
10	Year 10		
ST	***Total Service Fees for Years 1–10***		***$0.00***

Netwo

Item	Annual Service Fee	Monthly Fee	Yearly
1	Year 1		
2	Year 2		
3	Year 3		
4	Year 4		
5	Year 5		
6	Year 6		
7	Year 7		
8	Year 8		
9	Year 9		
10	Year 10		
ST	***Total Service Fees for Years 1–10***		***$0.00***

Item	Device Description	Quantity	Unit Price
1	Extended Warranty Pricing		
2	Managed Services 24/7 support if not standard.		

3	Cellular Monthly Charges (if offered)		
4	Test Environment (Head-End, Test Network etc.)		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
ST	***Recurring Miscellaneous***		

are as a Service (Saas) Fees

City Comments / Clarifications

ork as a Service (NaaS) Fees

City Comments / Clarifications

Recurring Miscellaneous

Total
$0.00
$0.00

$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00

Proposer Comments / Clarifications

Proposer Comments / Clarifications

City Comments / Clarifications
Proposer to specify

If Proposer is offering a cellular option, please include monthly per point charges.

Proposer Comments / Clarifications

Section 24.2.3: F

Resource	Title	Hourly Rate	
1			
2			
3			
4			
5			

ees for Additional Requested Services

City Comments / Clarifications

Proposer Comments / Clarifications

Item	Payment Description
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Table 23-1: Proposed Payment Te

Time Frame for Proposed Payment

rms

Proposer Comments

Solar Reserve	(blank)

Row Labels	Count of ACCOUNT NO#
ELECTRIC	**2781**
12s	26
16k/16s	1
16s	92
25s	1
2S	2507
3s	1
46s	49
4s	9
9s	44
unknown	51
SOLAR- BI-DIR	**20**
2S	20
WATER	**2706**
1	227
1.5	28
2	74
3	4
4	5
5/8x3/4	2360
unknown	8
Grand Total	**5507**

TYPE	CLASS	METER NO#	ACCOUNT NO#	----- SERVICE ADDRESS ------
WATER	Residential	0524332	10-06445	1455 DAVIS ST
WATER	Residential	04100750	10-06446	1456 DAVIS ST
WATER	Residential	4100844	05-02700	712 N 9TH AVE
WATER	Residential	6700466	09-05641	708 SANDPIPER DR 5
WATER	Residential	8254176	03-04900	613 N 7TH AVE
WATER	Residential	8303450	09-00160	220 S 10TH AVE
WATER	Residential	8325081	02-01025	115 N 2ND AVE
WATER	Residential	8441116	09-03212	225 S FL AVE
WATER	Residential	8511245	02-01300	112 N 1ST AVE
WATER	Residential	8511246	13-09801	611 N FL AVE
WATER	Residential	8529023	11-21693	1014 S 9TH AVE 3
WATER	Residential	8624670	02-00650	105 N 3RD AVE G102
WATER	Residential	8742830	11-23160	1078 DOWNING CIR
WATER	Residential	9683352	02-02375	210 FORSYTHE AVE
WATER	Residential	10036771	11-23110	1098 DOWNING CIR
WATER	Residential	10478142	01-13730	615 E SUMMIT ST
WATER	Residential	10500454	09-05500	511 W EDDY ST
WATER	Residential	10500463	08-04802	805 S 9TH AVE
WATER	Residential	10598711	11-02170	355 MARTIN L KING JR AVE
WATER	Residential	10733459	09-06020	1066 WILD TURKEY LN 55
WATER	Residential	10733460	13-07000	1392 US HWY 17N
WATER	Residential	10858623	11-21000	1138 HUSS RD
WATER	Residential	10883755	11-23120	1094 DOWNING CIR
WATER	Residential	10892776	09-05910	1053 WHOOPING CRANE 44
WATER	Residential	11234048	11-02720	228 GRIFFIN RD
WATER	Residential	11234052	13-03420	306 N 6TH AVE
WATER	Residential	11411106	11-05204	225 RIVERSIDE DR
WATER	Residential	11539834	13-08022	217 W PALMETTO ST
WATER	Residential	18680297	09-06800	714 KOHALA DR
WATER	Residential	18680317	05-01600	310 W GA ST
WATER	Residential	18680324	09-06110	733 SANDPIPER DR 31
WATER	Residential	19286104	07-19500	527 S 6TH AVE
WATER	Residential	19286112	13-04101	610 N 6TH AVE
WATER	Residential	19913716	09-03400	401 S FL AVE
WATER	Residential	19913727	11-02735	339 KENYON AVE
WATER	Residential	20137476	11-10644	423 AMANDA LN
WATER	Residential	20138261	05-04320	419 N 9TH AVE
WATER	Residential	25230347	08-04648	306 PEACE DR
WATER	Residential	25242994	03-11301	505 N 8TH AVE 2
WATER	Residential	25248642	09-06400	614 HONOLULU DR
WATER	Residential	25248654	08-04100	812 S 8TH AVE
WATER	Residential	25248724	11-13500	410 N OH AVE
WATER	Residential	25292408	07-14403	135 CARLTON ST 45
WATER	Residential	25292413	10-07472	308 HIDDEN CREEK
WATER	Residential	25353322	07-07900	912 S 7TH AVE
WATER	Residential	25353363	11-02740	246 GRIFFIN RD

WATER	Residential	25353417	02-00675	105 N 3RD AVE H101
WATER	Commercial	25353426	06-06804	802 W AL ST
WATER	Residential	45667132	09-05710	712 SANDPIPER DR 12
WATER	Residential	67792377	07-20061	635 S 5TH AVE D206
WATER	Residential	67792433	07-20047	635 S 5TH AVE C208
WATER	Residential	67792438	07-20048	635 S 5TH AVE D101
WATER	Residential	75523886	12-03205	N 6TH AVE
WATER	Residential	76634298	14-03005	1009 S 6TH AVE LEE'S GARA
WATER	Residential	83225086	09-02512	422 S 11TH AVE
WATER	Residential	84487133	14-00700	301 S 6TH AVE
WATER	Residential	92166492	12-14912	1103 S 6TH AVE 103
WATER	Residential	99456845	12-08005	209 W MAIN ST HERITAGE
WATER	Residential	99524344	04-00360	333 RIVERCHASE CIR
WATER	Residential	99524365	04-00210	354 RIVERCHASE CIR
WATER	Residential	99524374	04-00275	376 RIVERCHASE CIR
WATER	Residential	201203281	11-11150	179 CHAMBERS CT
WATER	Residential	212047362	10-02300	387 HANCHEY RD
WATER	Residential	212047364	10-07476	301 HIDDEN CREEK CIR
WATER	Residential	212047371	10-03700	1597 STENSTROM RD
WATER	Residential	212124504	10-07475	275 HIDDEN CREEK CIR
WATER	Residential	212124507	10-07208	1005 W LA ST
WATER	Residential	212124510	11-11020	1056 N FL AVE
WATER	Residential	212124512	10-07204	1001 W LA ST
WATER	Residential	212124513	10-03332	1065 KNOLLWOOD CIR
WATER	Residential	212124517	10-07445	343 HIDDEN CREEK CIR
WATER	Residential	212124523	11-21225	1050 HUSS RD
WATER	Residential	212302468	09-05650	1027 BLUE HERRON LN 6
WATER	Residential	212302473	10-03353	1075 KNOLLWOOD CIR
WATER	Residential	212304257	14-03120	1123 S 6TH AVE
WATER	Residential	212304272	10-07650	711 ALTMAN ROAD
WATER	Residential	212304303	10-07464	385 HIDDEN CREEK CIR
WATER	Residential	212304307	10-07455	1502 W LA ST
WATER	Residential	212304326	08-11301	301 W BAY ST
WATER	Residential	212304330	10-07038	1013 BRIARWOOD
WATER	Residential	212304332	10-07207	1017 W LA ST
WATER	Residential	212304335	10-07440	313 HIDDEN CREEK CIR
WATER	Residential	212304336	10-07485	283 HIDDEN CREEK CIR
WATER	Residential	686100810	13-07000	1392 US HWY 17N
WATER	Residential	@0527386	10-03375	1180 KNOLLWOOD CIRCLE
WATER	Residential	@18159449	14-03196	240 STENSTROM RD
WATER	Residential	@18159450	11-09926	311 GARDEN DR
WATER	Residential	@22572162	05-04300	421 N 9TH AVE
WATER	Residential	@48147825	06-03201	709 W PALMETTO ST
WATER	Residential	@48147831	10-07043	1025 BRIARWOOD DR
WATER	Residential	@51039649	13-06210	735 N 6TH AVE
WATER	Residential	@76333827	08-12800	605 S 9TH AVE
WATER	Residential	@8303519	09-06250	810 S FL AVE

WATER	Residential	@8528765	14-04400	306 S 6TH AVE
WATER	Residential	@BA77746	10-03312	1062 ASPEN LANE
WATER	Residential	@F866335	10-03392	1260 KNOLLWOOD CIR
WATER	Residential	@K030382	09-06900	810 HONOLULU DR
WATER	Residential	@P513791	13-07220	101 W OAK ST
WATER	Residential	@T511521	11-07210	314 RIVERSIDE DR
WATER	Residential	@T529416	01-14000	515 E BAY ST
WATER	Residential	@X509579	10-03761	639 HANCHEY RD
WATER	Residential	A002716	10-03501	1182 ASPEN LANE
WATER	Residential	B077743	12-10900	125 W MAIN ST
WATER	Residential	F816883	03-09700	815 N 8TH AVE
WATER	Residential	FIRE DEPT	12-00004	SW& HARDEE CO FIRE D
WATER	Residential	P513493	04-00850	700 E TOWNSEND ST 25
WATER	Residential	P513965	04-00910	700 E TOWNSEND ST 37
WATER	Residential	T517854	14-04095	107 W SUMMIT ST
WATER	Residential	T529458	13-07500	201 N 6TH AVE
WATER	Commercial	X321201	13-05585	202 BELL ST (&204-DUPLEX
WATER	Residential	X324683	12-07202	122 S 8TH AVE
WATER	Residential	X534668	07-16206	1020 MAKOWSKI RD 29
WATER	Residential	Y317185	09-05680	1022 BLUE HERRON LN 9
WATER	Residential	Z311603	05-05101	219 N 9TH AVE
WATER	Residential	0014166	13-00960	175 GRIFFIN
WATER	Residential	00018697	13-04711	HWY 17 N
WATER	Residential	00018698	10-03720	723 HANCHEY RD
WATER	Residential	0502735	12-07210	131 S 8TH AVE
WATER	Residential	0516258	14-00520	104 E ORANGE ST
WATER	Residential	0527387	14-08138	1000 S FL AVE- LIFT ST #3
WATER	Residential	0534661	13-08405	205 N 9TH AVE
WATER	Residential	2004076	09-09319	709 OAK FOREST DR
WATER	Residential	5688364	12-12080	106 E MAIN ST
WATER	Residential	7355500	08-11400	220 S 8TH AVE
WATER	Residential	7400702	12-14910	1103 S 6TH AVE 101
WATER	Residential	7706155	01-06812	102 INGLIS WAY
WATER	Residential	8471911	12-03215	112 & 124 N 7TH AVE
WATER	Commercial	8653560	12-03210	117 W PALMETTO ST
WATER	Residential	8717173	13-03540	406 N 6TH AVE
WATER	Residential	8717180	02-01175	507 E MAIN ST
WATER	Residential	8737723	12-12032	106 E MAIN ST
WATER	Residential	10478162	01-08748	205 S WALTON AVE
WATER	Commercial	10500388	14-07575	505 S 10TH AVE
WATER	Residential	10500446	09-02500	424 S 11TH AVE
WATER	Residential	10500531	07-09100	716 S 7TH AVE
WATER	Residential	14328420	12-00275	225 E MAIN ST CITY HALL
WATER	Residential	17104788	12-03230	118 W MAIN ST
WATER	Residential	17104790	13-03509	322 N 6TH AVE
WATER	Residential	18159444	10-03520	1267 ASPEN LANE
WATER	Residential	19140939	08-07300	821 S 10TH AVE

WATER	Residential	19453455	14-04095	107 W SUMMIT ST
WATER	Residential	19481228	12-00290	225 E MAIN STREET
WATER	Residential	19913745	14-03168	156 WILL DUKE RD
WATER	Residential	20030564	13-08111	310 N 8TH AVE
WATER	Residential	20138271	10-03481	1060 KNOLLWOOD CIR
WATER	Residential	20813389	08-09110	601 S 10TH AVE
WATER	Residential	20813390	08-04600	802 S 8TH AVE
WATER	Residential	20979131	09-07902	703 HONOLULU DR
WATER	Residential	20979132	13-05021	1490 US HWY 17 NORTH
WATER	Residential	20979133	14-03950	530 S 6TH AVE
WATER	Commercial	20979136	14-02620	807 COBB CT
WATER	Residential	20979137	13-05071	115 HEARTLAND WAY
WATER	Residential	20979140	10-03223	1017 MAGNOLIA LN
WATER	Commercial	21038257	07-05801	187 CRAVEN ST
WATER	Residential	21064441	14-03190	1102 S 6TH AVE
WATER	Residential	21064442	01-07500	117 S 1ST AVE
WATER	Residential	21064443	12-06020	529 W MAIN ST
WATER	Residential	21064444	01-06480	109 INGLIS WAY
WATER	Commercial	25242933	13-08900	511 W PALMETTO ST
WATER	Residential	25248675	09-02701	609 W HIGH ST
WATER	Residential	25248819	01-12100	620 SAUNDERS ST
WATER	Residential	25353353	12-05900	502 W MAIN ST
WATER	Residential	26395789	14-00500	201 S 6TH AVE
WATER	Residential	26395815	12-10110	110 W ORANGE ST
WATER	Residential	26652682	10-03141	1045 KNOLLWOOD CIR
WATER	Residential	26665195	10-07044	1024 BRIARWOOD DR
WATER	Residential	26665207	14-02630	COBB CT (RND ABT)
WATER	Residential	48084346	13-06225	765 N 6TH AVE
WATER	Residential	48084350	09-08000	704 HAWAIIAN DR
WATER	Residential	48147829	01-06500	112 INGLIS WAY
WATER	Residential	48147833	02-01375	703 E MAIN ST
WATER	Residential	48147834	13-05007	1480 US HWY 17 N
WATER	Residential	49253132	09-09317	707 OAK FOREST DR
WATER	Residential	49604935	12-14884	431 CARLTON ST
WATER	Residential	49790033	12-06910	123 S 9TH AVE
WATER	Residential	49877926	12-01401	204 E PALMETTO ST
WATER	Residential	49877928	13-05171	1430 US HWY 17 N
WATER	Residential	49930711	10-03130	1035 KNOLLWOOD CIR
WATER	Residential	51145567	02-05900	513 E PALMETTO ST
WATER	Residential	51248152	10-03640	1229 PINE COURT
WATER	Residential	51248153	09-01101	404 S 11TH AVE
WATER	Residential	51432556	14-00700	301 S 6TH AVE
WATER	Residential	51815172	14-09251	1643 STENSTROM RD
WATER	Residential	52017903	14-07280	1052 DOWNING CIR
WATER	Residential	52017904	01-06485	101 INGLIS WAY
WATER	Residential	52017905	10-03755	653 HANCHEY RD
WATER	Residential	52192800	14-01302	415 S 6TH AVE

WATER	Residential	52216004	13-03202	202 N 6TH AVE
WATER	Residential	52216005	14-00700	301 S 6TH AVE
WATER	Residential	52312461	10-07036	1002 BRIARWOOD DR
WATER	Residential	52337569	06-07150	401 N PA AVE
WATER	Residential	52337597	10-03411	1305 KNOLLWOOD CIR
WATER	Commercial	52337600	14-08400	204 S 11TH AVE
WATER	Residential	52492386	11-07241	308 RIVERSIDE DR
WATER	Commercial	52492389	13-08400	204 N 9TH AVE
WATER	Residential	52991903	06-00120	110 IN AVE
WATER	Residential	52991904	13-05009	1484 US HWY 17N
WATER	Residential	53158437	01-14500	511 E ORANGE ST
WATER	Residential	53158438	10-03771	623 HANCHEY RD
WATER	Residential	53192799	10-03353	1075 KNOLLWOOD CIR
WATER	Residential	53220140	14-01150	401 S 6TH AVE
WATER	Residential	53232712	07-06695	1151 DOWNING CIR
WATER	Residential	53232713	12-14888	457 CARLTON ST
WATER	Residential	53336996	12-02901	N 6TH AVE
WATER	Residential	53336997	01-06600	108 INGLIS WAY
WATER	Residential	53336998	09-02615	410 S 11TH AVE
WATER	Residential	53475690	10-03291	1090 MAGNOLIA LN
WATER	Residential	53532737	10-07206	1208 W LA ST
WATER	Residential	53532756	13-05004	120 KD REVELL RD
WATER	Residential	53688365	13-05004	120 KD REVELL RD
WATER	Residential	53688366	14-04000	1104 S 6TH AVE
WATER	Residential	53738626	03-12201	213 N 8TH AVE
WATER	Residential	53738644	13-05052	1451 US HWY 17 N
WATER	Residential	53808824	12-03207	W PALMETTO ST
WATER	Commercial	53861319	12-14889	440 CARLTON ST
WATER	Residential	53899741	13-05025	1498 US HWY 17N WAUCHULA
WATER	Residential	54081290	14-03770	1405 HWY 17 S
WATER	Commercial	54190932	12-07211	208 W ORANGE ST
WATER	Residential	54230394	05-12304	203 N FL AVE
WATER	Residential	54230402	14-03771	1341 HWY 17 S
WATER	Residential	54402919	10-07555	1788 DOYLE CARLTON RD
WATER	Residential	54518373	13-10670	1440 US HWY 17 N
WATER	Residential	54518374	09-07800	711 HONOLULU DR
WATER	Residential	54608804	13-10615	213 N FL AVE
WATER	Residential	54628066	10-07049	1005 BRIARWOOD DR.
WATER	Commercial	54740922	14-08440	119 S FL AVE
WATER	Residential	54740923	08-10708	506 S 8TH AVE
WATER	Residential	54740924	02-07250	411 E OAK ST
WATER	Commercial	54740925	13-05006	149 KD REVELL RD
WATER	Commercial	60488609	13-10300	1720 W MAIN ST
WATER	Residential	66258112	10-03230	1037 MAGNOLIA LN
WATER	Residential	68780568	14-03200	1042 S 6TH AVE
WATER	Residential	68786318	13-05025	1498 US HWY 17N WAUCHULA
WATER	Residential	68786319	12-03205	N 6TH AVE

WATER	Residential	68985754	09-00105	507 HIGH ST
WATER	Residential	68985755	12-02550	135 E MAIN ST
WATER	Residential	68985756	06-01620	702 W LA ST
WATER	Residential	68985757	13-06100	116 REA RD
WATER	Residential	68985759	09-09350	712 OAK FOREST DR
WATER	Commercial	98026347	13-06005	701 N 7TH AVE
WATER	Residential	99492959	04-00180	300 RIVERCHASE CIR
WATER	Residential	212302476	14-03165	1201 US HWY 17 S
WATER	Residential	212304239	10-00100	1006 W MAIN ST
WATER	Residential	@0502732	09-08591	817 HAWAIIAN DR
WATER	Residential	@0502733	11-13860	279 GEORGETOWN LOOP
WATER	Residential	@0502798	06-13500	111 N OH AVE
WATER	Residential	@0518207	11-13880	246 GEORGETOWN LOOP
WATER	Residential	@05182249	03-14000	211 W OAK ST
WATER	Residential	@0527382	08-13235	606 S 9TH AVE
WATER	Residential	@0531108	12-07210	131 S 8TH AVE
WATER	Residential	@0534662	11-13845	219 GEORGETOWN LOOP
WATER	Residential	@0534663	11-13895	194 GEORGETOWN LOOP
WATER	Residential	@10478162	01-08726	203 S WALTON AVE
WATER	Residential	@17104789	09-09317	707 OAK FOREST DR
WATER	Residential	@17104790	13-03502	324 N 6TH AVE
WATER	Residential	@17104791	09-05655	985 S FL AVE
WATER	Residential	@18159438	10-03300	1071 MAGNOLIA LANE
WATER	Residential	@18159445	12-01401	204 E PALMETTO ST
WATER	Residential	@48084347	10-07080	1027 BRIARWOOD DR
WATER	Residential	@48084349	01-17500	101 S 3RD AVE
WATER	Residential	@48084351	10-07055	1029 BRIARWOOD DR
WATER	Residential	@48084353	05-05350	406 W PALMETTO ST
WATER	Residential	@48084354	09-09225	707 CROSBY LANE
WATER	Residential	@48084356	13-09801	611 N FL AVE
WATER	Residential	@48147830	12-14885	515 CARLTON ST
WATER	Residential	@4814827	14-01008	319 S 6TH AVE
WATER	Residential	@49754604	10-07076	1032 BRIARWOOD DR
WATER	Residential	@49828190	01-06465	114 INGLIS WAY
WATER	Residential	@49828207	11-09955	325 GARDEN DR
WATER	Residential	@49828208	10-03662	1010 KNOLLWOOD CIR
WATER	Residential	@49852213	02-07295	403 E PALMETTO ST
WATER	Residential	@49877929	14-04210	119 W BAY ST
WATER	Residential	@51815174	01-14400	503 E ORANGE ST
WATER	Commercial	@52312460	06-06804	802 W AL ST
WATER	Residential	@52337598	12-12006	106 E MAIN ST
WATER	Residential	@52337599	13-05021	1490 US HWY 17 NORTH
WATER	Residential	@5512807	11-09865	302 PARK DR
WATER	Residential	@5512811	09-09331	713 OAK FOREST DR
WATER	Residential	@7706149	06-07800	217 N PA AVE
WATER	Residential	@8630704	08-12520	321 S 9TH AVE
WATER	Residential	@8832384	14-03420	116 CARLTON ST

WATER	Residential	@8837779	11-13885	214 GEORGETOWN LOOP
WATER	Residential	@8837782	11-13850	245 GEORGETOWN LOOP
WATER	Residential	@8843855	09-09312	703 OAK FOREST DR
WATER	Residential	@922424	06-03700	224 N PA AVE
WATER	Residential	@B067309	10-03181	1022 MAGNOLIA LN
WATER	Residential	@B070045	10-03540	1247 ASPEN LANE
WATER	Residential	@B070048	09-07902	703 HONOLULU DR
WATER	Residential	@C004509	14-01410	515 S 6TH AVE
WATER	Residential	@F870700	02-07180	318 N SHELTON AVE
WATER	Residential	@J036644	10-03262	1067 MAGNOLIA LN
WATER	Residential	@J036645	11-07600	222 RIVERSIDE DR
WATER	Residential	@J036649	08-12507	317 S 9TH AVE
WATER	Residential	@P506146	12-00275	225 E MAIN ST CITY HALL
WATER	Residential	@P510526	11-13849	235 GEORGETOWN LOOP
WATER	Residential	@P510527	11-13810	185 GEORGETOWN LOOP
WATER	Residential	@R201747	11-13875	272 GEORGETOWN LOOP
WATER	Residential	@R207855	11-13870	280 GEORGETOWN LOOP
WATER	Residential	@R207856	10-03515	1262 ASPEN LANE
WATER	Residential	@R207857	02-01050	406 E PALMETTO ST
WATER	Residential	@R207859	14-03950	530 S 6TH AVE
WATER	Residential	@S516933	11-22800	1152 DOWNING CIR
WATER	Residential	@S516934	09-09340	803 SHADY NOOK CIR
WATER	Residential	@S516935	06-01771	305 N IN AVE
WATER	Residential	@S516937	11-13853	253 GEORGETOWN LOOP
WATER	Residential	@S528759	06-01275	608 N PA AVE
WATER	Residential	@T529388	11-05300	301 RIVERSIDE DR
WATER	Residential	@T529417	10-03290	1100 MAGNOLIA LN
WATER	Residential	@V515244	09-03100	208 S 11TH AVE
WATER	Residential	@X315620	11-22910	1161 DOWNING CIR
WATER	Residential	@X315624	11-06001	315 RIVERSIDE DR
WATER	Residential	@Y304921	10-07100	1030 BRIARWOOD DR #21
WATER	Residential	@Y315878	10-03592	1224 PINE DR
WATER	Residential	@Y326536	02-01100	114 N 2ND AVE
WATER	Residential	@Y326537	11-09300	223 PARK DR
WATER	Residential	@Z304655	11-09845	312 PARK DR
WATER	Residential	@Z312016	11-11155	1382 N FL AVE
WATER	Residential	@Z312020	14-08530	1258 W MAIN ST
WATER	Residential	@Z312021	10-03450	1185 KNOLLWOOD CIR
WATER	Residential	A19483	14-03330	101 CARLTON ST
WATER	Residential	B067305	01-06910	708 E MAIN ST
WATER	Residential	F870885	14-08130	1000 S FL AVE
WATER	Residential	K030391	14-03010	1081 S 6TH AVE
WATER	Residential	P510523	14-06990	1020 MAKOWSKI RD
WATER	Residential	P510524	10-00301	1296 W MAIN ST
WATER	Residential	P510528	10-03422	1265 KNOLLWOOD CIR
WATER	Residential	S512810	14-08705	205 HANCHEY RD
WATER	Commercial	S516938	13-02010	408 HEARD BRIDGE RD

WATER	Residential	T511523	10-03450	1185 KNOLLWOOD CIR
WATER	Residential	T529413	14-02977	943 S 6TH AVE
WATER	Residential	T529414	14-04501	234 S 6TH AVE
WATER	Residential	T529415	12-00006	208 N 3RD AVE
WATER	Residential	V515242	01-15400	501 E BAY ST
WATER	Residential	X315619	09-09313	705 OAK FOREST DR
WATER	Residential	X315621	05-00010	315 W PALMETTO ST
WATER	Residential	X509580	03-00200	215 N GEORGE BURRIS AVE
WATER	Residential	Y304917	10-03161	1042 MAGNOLIA LN
WATER	Residential	Y326539	14-03470	806 S 6TH AVE
WATER	Residential	Z304653	10-03200	1000 MAGNOLIA LANE
WATER	Residential	Z312018	10-03501	1182 ASPEN LANE
WATER	Residential	Z312019	05-05101	219 N 9TH AVE
WATER	Residential	000017150	13-09617	210 METHENY RD
WATER	Residential	00017183	13-01615	1321 E MAIN ST
WATER	Residential	295460	01-18520	302 AZALEA HILL
WATER	Residential	6061721	12-05700	318 W MAIN ST
WATER	Commercial	8925250	12-06120	412 W ORANGE ST 103
WATER	Commercial	17146771	04-02290	701 LA PLAYA DR
WATER	Residential	18476760	12-14830	126 S 7TH AVE
WATER	Residential	20715845	14-03550	620 S 6TH AVE
WATER	Residential	56710732	12-06510	401 W MAIN ST
WATER	Residential	60335733	14-03450	902 S 6TH AVE
WATER	Residential	60335752	14-02951	909 S 6TH AVE
WATER	Residential	68780562	14-03090	1117 S 6TH AVE
WATER	Residential	68780563	13-10670	1440 US HWY 17 N
WATER	Residential	68780564	13-06100	116 REA RD
WATER	Residential	68780565	14-08530	1258 W MAIN ST
WATER	Residential	68780566	14-01302	415 S 6TH AVE
WATER	Residential	685865408	12-14895	907 S 6TH AVE
WATER	Residential	@Z534466	02-01300	112 N 1ST AVE
WATER	Commercial	A007731	13-07800	207 N 7TH AVE
WATER	Residential	C025184	13-06802	409 N 6TH AVE
WATER	Residential	C094317	06-08800	809 W PALMETTO ST
WATER	Residential	E556391	11-11200	221 GRIMES
WATER	Residential	E556392	12-11903	132 S 6TH AVE
WATER	Residential	G042222	01-06600	108 INGLIS WAY
WATER	Residential	J082176	12-14920	1133 S 6TH AVE
WATER	Residential	J082183	14-03020	1105 S 6TH AVE
WATER	Commercial	L059970	13-00636	300 E MAIN ST
WATER	Commercial	U459666	12-14817	121 KD REVELL RD
WATER	Residential	0029669	14-03300	1010 S 6TH AVE
WATER	Residential	0051395	14-08550	1277 W MAIN ST
WATER	Residential	6071942	14-09301	590 RODEO DR
WATER	Residential	6906459	13-05176	1436 US HWY 17 N
WATER	Residential	6910120	14-04250	338 STENSTROM RD
WATER	Residential	7332454	12-00275	225 E MAIN ST CITY HALL

WATER	Residential	8826653	12-05475	131 N 8TH AVE
WATER	Residential	8826843	13-05055	1211 US HWY 17 N
WATER	Residential	12869478	12-14814	HEARTLAND WAY
WATER	Residential	16896586	13-05009	1484 US HWY 17N
WATER	Commercial	20813394	14-08420	610 W ORANGE ST
WATER	Residential	20813395	14-03320	938 S 6TH AVE
WATER	Residential	20813396	14-03550	620 S 6TH AVE
WATER	Commercial	20813398	12-14850	400 S FL AVE
WATER	Residential	20979139	13-02150	133 E TOWNSEND ST
WATER	Residential	20983341	12-14890	401 ORANGE PL
WATER	Residential	25250100	13-10601	1121 W LA ST
WATER	Commercial	26608148	13-02000	408 HEARD BRIDGE RD
WATER	Residential	26656390	14-02610	897 S 6TH AVE
WATER	Residential	53899740	12-00013	205 N 3RD AVE
WATER	Residential	60163853	14-01601	601 & 611 S 6TH AVE
WATER	Residential	60163855	12-08005	209 W MAIN ST HERITAGE
WATER	Residential	60237430	13-05008	1480 US HWY 17N
WATER	Residential	60439540	10-07076	1032 BRIARWOOD DR
WATER	Commercial	60440409	14-08111	1044 S FL AVE
WATER	Commercial	60442365	13-10300	1720 W MAIN ST
WATER	Commercial	60463424	12-06420	124 S 9TH AVE SUITE 100
WATER	Residential	60500704	14-09260	770 RECREATION COMPLEX
WATER	Residential	60586354	13-05077	110 HEARTLAND WAY
WATER	Residential	60719140	14-08135	815 SOUTH FLORIDA AVE
WATER	Residential	60719143	14-06955	1140 S 6TH AVE
WATER	Commercial	60750708	13-10145	1570 W MAIN ST WAUCHULA F
WATER	Residential	60799054	13-05190	1499 HWY 17 N
WATER	Residential	60896403	12-12090	17 E MAIN ST & HWY S
WATER	Residential	60959552	13-09617	210 METHENY RD
WATER	Residential	60962910	13-01623	130 PARK DR
WATER	Residential	60962911	14-09260	770 RECREATION COMPLEX
WATER	Residential	61098786	13-00930	175 GRIFFIN RD
WATER	Residential	61098787	14-09291	507 CIVIC CENTER DR
WATER	Residential	61113925	14-03295	1014 S 6TH AVE
WATER	Residential	61137852	13-10600	1121 W LA ST
WATER	Residential	68667059	14-02607	735 S 5TH AVE
WATER	Residential	68667061	14-02607	735 S 5TH AVE
WATER	Residential	68667062	14-02607	735 S 5TH AVE
WATER	Commercial	68733745	14-02620	807 COBB CT
WATER	Residential	68759822	14-09300	450 RODEO DR
WATER	Commercial	68770680	12-14815	502 MARTIN L KING JR AVE
WATER	Residential	68780548	12-14888	457 CARLTON ST
WATER	Residential	68780549	12-14930	830 ALTMAN RD
WATER	Residential	68780550	13-03700	524 N 6TH AVE
WATER	Residential	68780551	14-03265	1026 S 6TH AVE
WATER	Commercial	68780552	14-08260	200 S FL AVE
WATER	Residential	68780567	14-09295	155 ALTMAN RD

WATER	Residential	68786312	13-07512	112 W PALMETTO ST
WATER	Residential	99586973	13-05008	1480 US HWY 17N
WATER	Residential	600882272	10-07460	1284 W LA ST
WATER	Commercial	608360897	12-14880	533 CARLTON ST
WATER	Residential	@0005047	14-08135	815 SOUTH FLORIDA AVE
WATER	Residential	@60439539	13-08130	301 N 7TH AVE
WATER	Residential	@99586974	14-09308	1861 DOYLE CARLTON ROAD
WATER	Residential	@Z524196	14-03280	1016 S 6TH AVE
WATER	Commercial	@Z524198	12-14880	533 CARLTON ST
WATER	Commercial	E593424	12-14840	417 W MAIN ST
WATER	Residential	F827381	13-00930	175 GRIFFIN RD
WATER	Residential	F903610	14-01210	401 1/ S 6TH AVE
WATER	Residential	M160321X1	14-03170	1330 S 6TH AVE
WATER	Residential	N126382	12-14812	155 GRIFFIN RD WWTP
WATER	Commercial	R122335	14-08519	901 W MAIN ST
WATER	Residential	U422139	14-09308	1861 DOYLE CARLTON ROAD
WATER	Residential	U428464	13-05010	1510 HWY 17 N
WATER	Residential	U523009	14-09100	630 HANCHEY RD
WATER	Commercial	X511903	12-14817	121 KD REVELL RD
WATER	Commercial	X511904	12-14817	121 KD REVELL RD
WATER	Commercial	X527346	13-10140	1570 W MAIN ST WAUCHULA F
WATER	Commercial	68635488	12-14870	200 S FL AVE
WATER	Commercial	70233050	14-08272	200 S FL AVE
WATER	Residential	68786311B	13-09605	1120 N FL AVE
WATER	Commercial	S3955856	12-14880	533 CARLTON ST
WATER	Residential	26651601	13-09411	409 GOOLSBY ST
WATER	Commercial	70225578	12-14880	533 CARLTON ST
WATER	Residential	70237328	14-09290	515 CIVIC CENTER DR
WATER	Residential	@91125233	14-08130	1000 S FL AVE
WATER	Residential	@M015800	14-08135	815 SOUTH FLORIDA AVE
ELECTRIC	Residential	32792636	12-02550	135 E MAIN ST
ELECTRIC	Residential	38768007	12-11300	111 W MAIN ST
ELECTRIC	Residential	39136722	14-03975	518 S 6TH AVE
ELECTRIC	Commercial	39136723	14-02300	653 S 6TH AVE
ELECTRIC	Residential	39136726	13-03230	228 N 6TH AVE
ELECTRIC	Residential	39136727	12-07700	231 W MAIN ST MAIN
ELECTRIC	Residential	39136731	12-02800	103 E MAIN ST
ELECTRIC	Residential	39136739	12-10176	118 W ORANGE ST
ELECTRIC	Residential	39136741	12-04001	130 W MAIN ST
ELECTRIC	Residential	39136745	12-03905	126 W MAIN ST
ELECTRIC	Residential	39136777	12-10115	112 W ORANGE ST
ELECTRIC	Residential	39136782	14-08102	FLA AVE & CARLTON ST
ELECTRIC	Residential	39136786	14-03280	1016 S 6TH AVE
ELECTRIC	Residential	39136790	12-10181	120 W ORANGE ST
ELECTRIC	Residential	39136797	12-10153	116 W ORANGE ST
ELECTRIC	Residential	39136798	12-10120	114 W ORANGE ST
ELECTRIC	Residential	39136819	12-03232	120 W MAIN ST

ELECTRIC	Residential	39136832	12-11512	107 W MAIN ST
ELECTRIC	Residential	39136847	12-10110	110 W ORANGE ST
ELECTRIC	Residential	39136849	14-03975	518 S 6TH AVE
ELECTRIC	Residential	39136853	12-03220	114 N 7TH AVE
ELECTRIC	Residential	39136867	12-11201	113 W MAIN ST
ELECTRIC	Residential	39136885	12-02900	104 N 6TH AVE
ELECTRIC	Residential	39136906	12-11600	105 W MAIN ST
ELECTRIC	Residential	39136910	12-11402	109 W MAIN ST
ELECTRIC	Residential	87948730	12-02901	N 6TH AVE
ELECTRIC	Residential	93547899	14-03200	1042 S 6TH AVE
ELECTRIC	Residential	4053710	14-03070	1109-1111 S 6TH AVE
ELECTRIC	Residential	32292829	13-04203	610A N 6TH AVE
ELECTRIC	Residential	32792619	13-02200	136 E TOWNSEND ST
ELECTRIC	Residential	32792620	14-09590	4026 W MAIN ST PUMP
ELECTRIC	Commercial	32792621	13-08201	906 N 8TH AVE
ELECTRIC	Residential	32792627	13-03506	320 N 6TH AVE
ELECTRIC	Residential	32792628	14-03550	620 S 6TH AVE
ELECTRIC	Residential	32792632	12-02240	108 N 6TH AVE
ELECTRIC	Residential	32792635	13-06220	751 N 6TH AVE
ELECTRIC	Residential	32792639	14-08138	1000 S FL AVE- LIFT ST #3
ELECTRIC	Residential	32792640	14-09235	LIFT STA STENSTROM R #8
ELECTRIC	Residential	32792642	13-02305	LIFT STATION 4TH AVE #14
ELECTRIC	Residential	32792644	14-07230	LIFT STA DOWNING CIR #16
ELECTRIC	Commercial	32792650	13-01900	402 HEARD BRIDGE RD
ELECTRIC	Residential	32792651	12-12005	106 E MAIN ST
ELECTRIC	Residential	32792656	13-05300	1031 HWY 17 N
ELECTRIC	Residential	32792657	14-08630	HANCHEY RD PUBLIC WO
ELECTRIC	Residential	32792658	14-08630	HANCHEY RD PUBLIC WO
ELECTRIC	Residential	34226616	12-03220	114 N 7TH AVE
ELECTRIC	Residential	34226617	14-03120	1123 S 6TH AVE
ELECTRIC	Residential	34226618	14-03110	1121 S 6TH AVE
ELECTRIC	Residential	34226619	14-04250	338 STENSTROM RD
ELECTRIC	Residential	34226621	13-04301	610B N 6TH AVE
ELECTRIC	Residential	34226627	13-03700	524 N 6TH AVE
ELECTRIC	Residential	34226641	14-03100	1119 S 6TH AVE
ELECTRIC	Residential	34226650	14-03090	1117 S 6TH AVE
ELECTRIC	Residential	34226720	14-03180	LIFT STATION HEARTLAND GD #1
ELECTRIC	Residential	34226721	14-00500	201 S 6TH AVE
ELECTRIC	Residential	34226724	14-02611	897 S 6TH AVE 4
ELECTRIC	Residential	34226726	14-03130	1125 S 6TH AVE
ELECTRIC	Residential	34226737	13-02101	203B E TOWNSEND ST
ELECTRIC	Residential	34226738	10-07457	HID CREEK LIFT STATION 23
ELECTRIC	Residential	34226739	14-09260	770 RECREATION COMPLEX
ELECTRIC	Residential	34226740	14-03050	1107 S 6TH AVE
ELECTRIC	Residential	34226745	13-06203	703 N 6TH AVE
ELECTRIC	Residential	34226746	14-08550	1277 W MAIN ST
ELECTRIC	Commercial	34226749	13-06005	701 N 7TH AVE

ELECTRIC	Residential	34226754	14-09555	64A HWY W PUMP
ELECTRIC	Residential	36346586	14-09950	3282 HWY 64W
ELECTRIC	Residential	36346601	13-09400	323 N 10TH AVE
ELECTRIC	Residential	36346607	12-01401	204 E PALMETTO ST
ELECTRIC	Residential	36346609	13-05520	LIFT STA FARM BUREAU #11
ELECTRIC	Residential	37792625	12-11903	132 S 6TH AVE
ELECTRIC	Residential	40053702	13-09202	212 N FL AVE
ELECTRIC	Residential	40053704	12-00803	217 E MAIN ST
ELECTRIC	Residential	40053706	14-03040	LIFT STA TRACTOR SUP #13
ELECTRIC	Residential	40053708	14-03030	HARDEE CENTRE
ELECTRIC	Commercial	40053720	14-08519	901 W MAIN ST
ELECTRIC	Residential	40053724	14-09260	770 RECREATION COMPLEX
ELECTRIC	Residential	40231404	12-00013	205 N 3RD AVE
ELECTRIC	Residential	42985146	12-03220	114 N 7TH AVE
ELECTRIC	Residential	42985154	13-04710	740 N 6TH AVE
ELECTRIC	Residential	42985160	12-11594	101 W MAIN ST
ELECTRIC	Residential	42985163	13-03401	302 N 6TH AVE
ELECTRIC	Residential	43088923	14-02612	897 S 6TH AVE 5
ELECTRIC	Residential	43088924	13-10120	LIFT STA BRIARWOOD #17
ELECTRIC	Commercial	47821312	14-08200	1049 S FL AVE
ELECTRIC	Residential	47821317	13-01620	LIFT STAT CREWS PARK #5
ELECTRIC	Residential	47821323	14-08810	322 HANCHEY RD
ELECTRIC	Residential	47821324	14-01601	601 & 611 S 6TH AVE
ELECTRIC	Residential	49992182	14-03070	1109-1111 S 6TH AVE
ELECTRIC	Residential	49992183	12-04703	202 W MAIN UP
ELECTRIC	Residential	49992188	13-09411	409 GOOLSBY ST
ELECTRIC	Residential	49992191	13-10610	LIFT STATION LA ST #10
ELECTRIC	Residential	49992193	14-01601	601 & 611 S 6TH AVE
ELECTRIC	Residential	49992195	13-09500	514-20 N FL AVE
ELECTRIC	Commercial	52585114	14-02200	661 S 6TH AVE
ELECTRIC	Residential	52585122	14-01601	601 & 611 S 6TH AVE
ELECTRIC	Residential	53341165	13-07512	112 W PALMETTO ST
ELECTRIC	Residential	53341169	14-03070	1109-1111 S 6TH AVE
ELECTRIC	Residential	54990036	13-06505	517 N 6TH AVE
ELECTRIC	Residential	54990040	13-03220	220 N 6TH AVE
ELECTRIC	Residential	54990042	14-03280	1016 S 6TH AVE
ELECTRIC	Residential	54990051	13-03508	322 N 6TH AVE
ELECTRIC	Residential	54990052	13-05510	1017 HWY 17 N
ELECTRIC	Residential	56801013	08-14200	212 S 9TH AVE
ELECTRIC	Residential	56801019	13-09222	214 N FL AVE
ELECTRIC	Residential	56812893	12-00803	217 E MAIN ST
ELECTRIC	Residential	56812894	14-03290	1012 S 6TH AVE
ELECTRIC	Residential	58514950	14-00520	104 E ORANGE ST
ELECTRIC	Commercial	58514952	14-08519	901 W MAIN ST
ELECTRIC	Residential	58678179	13-03502	324 N 6TH AVE
ELECTRIC	Residential	58678180	14-03470	806 S 6TH AVE
ELECTRIC	Residential	58678186	14-07301	LIFT STATION HARDEE MANOR #4

ELECTRIC	Residential	58678190	14-01400	515 S 6TH AVE
ELECTRIC	Residential	58678192	14-01601	601 & 611 S 6TH AVE
ELECTRIC	Commercial	58678195	13-08200	912 N 8TH AVE
ELECTRIC	Residential	58678197	12-02200	110 N 6TH AVE
ELECTRIC	Residential	58678199	14-03320	938 S 6TH AVE
ELECTRIC	Residential	65445895	13-00050	406 E BAY ST GROVE
ELECTRIC	Residential	65445898	14-03196	240 STENSTROM RD
ELECTRIC	Residential	89011757	14-10075	3177 HIGHTOWER PUMP)
ELECTRIC	Residential	49825977	14-03470	806 S 6TH AVE
ELECTRIC	Residential	2226230	11-02480	301 MARTIN L KING JR AVE
ELECTRIC	Residential	2924976	04-02080	723 LA PLAYA DR
ELECTRIC	Residential	3229254	03-08250	205 GOOLSBY ST
ELECTRIC	Residential	3229333	07-20008	635 S 5TH AVE A201
ELECTRIC	Residential	3292479	01-13814	501 S 1ST AVE
ELECTRIC	Residential	3292609	01-09600	703 E BAY ST
ELECTRIC	Residential	3572177	07-09650	713 SEMINOLE ST
ELECTRIC	Residential	4998030	01-17104	408 E MAIN ST
ELECTRIC	Residential	5674552	11-09600	313 PARK DR
ELECTRIC	Residential	5769357	05-08158	520 W MAIN ST 2
ELECTRIC	Residential	5769389	05-06808	303 N 10TH AVE
ELECTRIC	Residential	6450566	08-07100	815 S 10TH AVE
ELECTRIC	Residential	8707014	02-00176	105 N 3RD AVE G101
ELECTRIC	Residential	18114316	01-13500	407 S 1ST AVE
ELECTRIC	Residential	20727499	04-00070	706 E OAK ST
ELECTRIC	Residential	20727740	10-08420	2879 NOVELL RD
ELECTRIC	Residential	20727743	03-09900	803 N 8TH AVE
ELECTRIC	Residential	20728008	09-00130	318 S 10TH AVE
ELECTRIC	Residential	20728413	04-02175	756 LA PLAYA DR
ELECTRIC	Residential	20728428	10-10900	2807 CLYDE RD
ELECTRIC	Residential	20728681	04-02030	715 LA PLAYA DR
ELECTRIC	Residential	20729156	08-06300	806 S 9TH AVE
ELECTRIC	Residential	20729365	05-12304	203 N FL AVE
ELECTRIC	Residential	20890478	04-02205	767 LA PLAYA DR
ELECTRIC	Residential	20890605	12-00014	205 N 3RD AVE
ELECTRIC	Residential	20890639	07-18201	1040 MAKOWSKI RD 10
ELECTRIC	Residential	20890674	05-10301	711 N FL AVE
ELECTRIC	Residential	20890677	05-10250	604 W KY ST
ELECTRIC	Residential	20890684	07-09900	714 SEMINOLE ST
ELECTRIC	Residential	20890813	04-02050	717 LA PLAYA DR
ELECTRIC	Residential	20890833	10-03720	723 HANCHEY RD
ELECTRIC	Residential	20890923	10-10700	4144 W MAIN ST
ELECTRIC	Residential	20890969	02-06202	212 N 2ND AVE
ELECTRIC	Residential	20891261	01-07100	604 E MAIN ST
ELECTRIC	Residential	20891273	07-07100	908 SEMINOLE ST
ELECTRIC	Residential	20891274	11-12101	573 POLK RD(BARN)
ELECTRIC	Residential	20891346	09-06700	714 HONOLULU DR
ELECTRIC	Residential	20891405	08-03800	828 S 8TH AVE

ELECTRIC	Residential	20891445	02-07100	341 N TURNER AVE
ELECTRIC	Residential	20891860	01-15800	409 E BAY ST
ELECTRIC	Residential	20891924	10-10800	2865 CLYDE RD
ELECTRIC	Residential	20892067	10-08008	1962 W MAIN ST
ELECTRIC	Residential	20892068	10-08005	1930 W MAIN ST
ELECTRIC	Residential	20892089	04-02125	734 LA PLAYA DR
ELECTRIC	Residential	20892096	10-10850	2865 CLYDE RD
ELECTRIC	Residential	20892171	05-07102	306 N FL AVE
ELECTRIC	Residential	20892188	10-10900	2807 CLYDE RD
ELECTRIC	Residential	20892205	05-03191	907 N 9TH AVE
ELECTRIC	Residential	20892396	04-02105	732 LA PLAYA DR
ELECTRIC	Residential	20923766	04-02255	787 LA PLAYA DR
ELECTRIC	Residential	20923775	05-03240	909 N 9TH AVE
ELECTRIC	Residential	20923918	07-20088	635 S 5TH AVE F201
ELECTRIC	Residential	20923920	11-13600	1002 W LA ST
ELECTRIC	Residential	20924018	06-02902	712 W MAIN ST
ELECTRIC	Residential	20924082	07-13512	135 CARLTON ST 53
ELECTRIC	Residential	20924101	10-03685	810 PIERCE RD
ELECTRIC	Residential	20924154	04-02250	785 LA PLAYA DR
ELECTRIC	Residential	20924155	04-02140	735 LA PLAYA DR
ELECTRIC	Residential	20924312	10-08040	132 PALDAO ACRES
ELECTRIC	Residential	20924313	07-20292	635 S 5TH AVE F205
ELECTRIC	Residential	20924347	10-07057	1014 BRIARWOOD ESTATES
ELECTRIC	Residential	20924421	01-12418	613 SAUNDERS ST
ELECTRIC	Residential	20924498	07-15009	125 CARLTON ST 40
ELECTRIC	Residential	20924649	10-11411	4352 STEVENS CARLTON PL
ELECTRIC	Residential	20924727	10-08040	132 PALDAO ACRES
ELECTRIC	Residential	20924865	10-08400	2872 NOVELL RD
ELECTRIC	Residential	20924866	02-04800	340 N TURNER AVE
ELECTRIC	Residential	20924867	10-08600	2846 W MAIN ST
ELECTRIC	Residential	20924881	04-02020	711 LA PLAYA DR
ELECTRIC	Residential	20924892	10-08500	2741 W MAIN ST
ELECTRIC	Residential	20924897	11-02760	274 GRIFFIN RD
ELECTRIC	Residential	20924945	10-08075	148 PALDAO ACRES
ELECTRIC	Residential	20925009	08-04405	806 S 8TH AVE
ELECTRIC	Residential	20925010	01-12904	630 E BAY ST
ELECTRIC	Residential	20925017	04-02085	725 LA PLAYA DR
ELECTRIC	Residential	20925032	10-10930	4172 W MAIN ST
ELECTRIC	Residential	20925205	04-02245	783 LA PLAYA DR
ELECTRIC	Residential	20925237	10-02750	479 HANCHEY RD
ELECTRIC	Residential	20925333	08-09800	702 S 8TH AVE
ELECTRIC	Residential	20925381	08-09850	320 W MELENDY ST
ELECTRIC	Residential	20925633	12-07100	315 W MAIN
ELECTRIC	Residential	20925634	02-06700	325 N TURNER AVE
ELECTRIC	Residential	28423595	14-01008	319 S 6TH AVE
ELECTRIC	Residential	28423662	07-20029	635 S 5TH AVE B206
ELECTRIC	Residential	28423846	07-11601	324 S 7TH AVE

ELECTRIC	Residential	28423970	10-11001	4209 W MAIN ST
ELECTRIC	Residential	28423983	10-10920	4154 W MAIN ST
ELECTRIC	Residential	28424062	02-02750	612 E PALMETTO ST
ELECTRIC	Residential	28424085	12-04316	117 N 7TH AVE 202
ELECTRIC	Residential	28424089	11-09200	221 PARK DR
ELECTRIC	Residential	28424110	11-02140	902 MILLER RD
ELECTRIC	Residential	28424169	04-02170	754 LA PLAYA DR
ELECTRIC	Residential	28424225	10-11405	3373 JOHN HOLT RD
ELECTRIC	Residential	28424287	10-07900	1817 HWY 64A W
ELECTRIC	Residential	28424301	01-06500	112 INGLIS WAY
ELECTRIC	Residential	28424302	07-20037	635 S 5TH AVE C106
ELECTRIC	Residential	28424378	03-12775	207 N 8TH AVE F
ELECTRIC	Residential	28424470	06-04301	524 N PA AVE
ELECTRIC	Residential	28424540	10-11416	4364 STEVENS CARLTON PL
ELECTRIC	Residential	28424542	12-04312	117 N 7TH AVE 201
ELECTRIC	Commercial	28424812	14-08185	412 S FL AVE
ELECTRIC	Residential	28424972	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	28424974	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	28424975	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	28425118	01-08500	707 E GREEN ST
ELECTRIC	Residential	28425253	11-21630	1023 S 9TH AVE 11
ELECTRIC	Residential	28425292	03-04504	715 N 7TH AVE
ELECTRIC	Residential	28425298	04-02210	769 LA PLAYA DR
ELECTRIC	Residential	28425312	04-02240	781 LA PLAYA DR
ELECTRIC	Residential	28425333	10-11020	4207 W MAIN ST
ELECTRIC	Residential	28425362	03-12920	205 N 8TH AVE 5
ELECTRIC	Residential	28425369	04-02130	736 LA PLAYA DR
ELECTRIC	Residential	28425416	10-11026	4212 W MAIN ST
ELECTRIC	Residential	28425418	10-09870	1850 W MAIN ST
ELECTRIC	Residential	28425566	07-04506	213 S 7TH AVE
ELECTRIC	Residential	28425643	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	28425693	04-02155	741 LA PLAYA DR
ELECTRIC	Residential	28425979	08-06600	408 PEACE DR
ELECTRIC	Residential	28426020	13-09300	300 N FL AVE
ELECTRIC	Residential	28426024	10-03685	810 PIERCE RD
ELECTRIC	Residential	28426059	08-15017	401 S 10TH AVE A
ELECTRIC	Residential	28426187	10-11100	3315 JOHN HOLT RD
ELECTRIC	Residential	28426253	11-23145	1089 DOWNING CIR
ELECTRIC	Residential	28426337	10-08050	136 PALDAO ACRES
ELECTRIC	Residential	28426397	06-00500	208 N IN AVE
ELECTRIC	Residential	28890681	01-13147	612A E BAY ST
ELECTRIC	Residential	32047323	02-01375	703 E MAIN ST
ELECTRIC	Residential	32047337	10-03223	1017 MAGNOLIA LN
ELECTRIC	Commercial	32047340	07-20104	635 S 5TH AVE
ELECTRIC	Residential	32047355	02-01260	125 N 1ST AVE
ELECTRIC	Residential	32047357	08-03616	423 W EDDY ST
ELECTRIC	Residential	32047359	07-10803	213 W SHORT ST

ELECTRIC	Residential	32270891	07-06450	112 W GRAPEFRUIT ST
ELECTRIC	Residential	32283290	11-22720	1085 DOWNING CIRCLE
ELECTRIC	Residential	32292003	03-04000	215 POLK RD
ELECTRIC	Residential	32292411	06-09300	228 IL AVE
ELECTRIC	Residential	32292414	03-09630	310 POLK RD
ELECTRIC	Residential	32292421	06-13900	705 W MAIN ST
ELECTRIC	Residential	32292424	01-06401	817 E MAIN ST 5B
ELECTRIC	Residential	32292436	04-02095	728 LA PLAYA DR
ELECTRIC	Residential	32292440	11-10643	421 AMANDA LN
ELECTRIC	Residential	32292443	03-02300	404 N 7TH AVE
ELECTRIC	Residential	32292444	06-10700	901 W LA ST
ELECTRIC	Residential	32292446	03-02500	412 N 7TH AVE
ELECTRIC	Residential	32292449	06-01590	702 W AL ST
ELECTRIC	Residential	32292459	06-09351	312 IL AVE
ELECTRIC	Residential	32292461	06-02500	115 IN AVE
ELECTRIC	Residential	32292464	01-14400	503 E ORANGE ST
ELECTRIC	Residential	32292465	03-03300	814 N 7TH AVE
ELECTRIC	Residential	32292467	03-03200	716 N 7TH AVE
ELECTRIC	Residential	32292468	14-03420	116 CARLTON ST
ELECTRIC	Residential	32292469	03-10700	609 N 8TH AVE
ELECTRIC	Residential	32292481	01-06600	108 INGLIS WAY
ELECTRIC	Residential	32292484	11-10625	420 BELL ST
ELECTRIC	Residential	32292485	06-04200	708 W LA ST
ELECTRIC	Residential	32292488	11-23190	1070 DOWNING CIRCLE
ELECTRIC	Residential	32292489	07-20018	635 S 5TH AVE B103
ELECTRIC	Residential	32292490	07-20006	635 S 5TH AVE A107
ELECTRIC	Residential	32292492	06-09000	210 IL AVE
ELECTRIC	Residential	32292493	06-01540	908 W AL ST
ELECTRIC	Residential	32292496	04-00240	396 RIVERCHASE CIR
ELECTRIC	Residential	32292501	07-19204	1050 MAKOWSKI RD 2
ELECTRIC	Residential	32292507	14-09605	3306 GRIFFIN WHIDDEN RD BARN
ELECTRIC	Residential	32292508	09-02701	609 W HIGH ST
ELECTRIC	Residential	32292519	13-05300	1031 HWY 17 N
ELECTRIC	Residential	32292523	14-07290	920 SEMINOLE ST
ELECTRIC	Residential	32292527	11-08104	212 RIVERSIDE DR
ELECTRIC	Residential	32292533	08-06501	404 PEACE DR
ELECTRIC	Residential	32292539	01-06801	104 INGLIS WAY
ELECTRIC	Residential	32292540	10-05340	413 CIRCLE DR
ELECTRIC	Residential	32292542	07-15701	125 CARLTON ST 34
ELECTRIC	Residential	32292545	08-02100	515 S 8TH AVE
ELECTRIC	Residential	32292547	09-08102	812 KOHALA DR
ELECTRIC	Residential	32292563	06-10551	910 W LA ST
ELECTRIC	Residential	32292568	06-12310	902 W PALMETTO ST
ELECTRIC	Residential	32292569	06-11704	316 N OH AVE
ELECTRIC	Residential	32292578	06-10808	317 IL AVE
ELECTRIC	Residential	32292580	07-10118	628 S 7TH AVE
ELECTRIC	Residential	32292581	03-13950	216 N 8TH AVE 3

ELECTRIC	Residential	32292584	06-12901	908 W MAIN ST
ELECTRIC	Residential	32292596	12-05300	230 W MAIN ST
ELECTRIC	Residential	32292598	09-08520	821 HAWAIIAN DR
ELECTRIC	Residential	32292601	01-18300	114 S 4TH AVE
ELECTRIC	Residential	32292602	14-09354	AIRPORT NEW HANGER
ELECTRIC	Residential	32292608	01-09500	631 E BAY ST
ELECTRIC	Residential	32292611	10-07434	369 HIDDEN CREEK CIR
ELECTRIC	Commercial	32292616	12-14815	502 MARTIN L KING JR AVE
ELECTRIC	Residential	32292621	04-01015	126 E TOWNSEND ST
ELECTRIC	Residential	32292628	12-07903	225 W MAIN ST
ELECTRIC	Residential	32292631	08-13803	401 W BAY ST
ELECTRIC	Residential	32292635	02-00300	105 N 3RD AVE A103
ELECTRIC	Residential	32292636	01-15400	501 E BAY ST
ELECTRIC	Residential	32292638	01-12810	306 S WALTON AVE
ELECTRIC	Residential	32292651	11-13830	211 GEORGETOWN LOOP
ELECTRIC	Residential	32292655	06-09600	806 W GA ST
ELECTRIC	Residential	32292663	02-09502	320 HEARD BRIDGE RD
ELECTRIC	Residential	32292666	08-04300	808 S 8TH AVE
ELECTRIC	Residential	32292670	06-08703	108 IL AVE
ELECTRIC	Residential	32292673	03-07900	504 N 8TH AVE
ELECTRIC	Residential	32292677	06-09650	408 IL AVE
ELECTRIC	Residential	32292679	01-12807	314 S WALTON AVE
ELECTRIC	Residential	32292695	01-08006	623 E GREEN ST
ELECTRIC	Residential	32292705	02-00200	105 N 3RD AVE B201
ELECTRIC	Residential	32292710	06-01600	505 N IN AVE
ELECTRIC	Residential	32292714	14-09600	64A HWY W
ELECTRIC	Residential	32292717	11-07600	222 RIVERSIDE DR
ELECTRIC	Residential	32292734	04-00735	700 E TOWNSEND ST 3
ELECTRIC	Residential	32292736	05-11205	315 N FL AVE
ELECTRIC	Residential	32292743	02-02900	601 E PALMETTO ST
ELECTRIC	Residential	32292747	10-07430	235 HIDDEN CREEK CIR
ELECTRIC	Residential	32292749	07-20028	635 S 5TH AVE B205
ELECTRIC	Residential	32292751	01-09010	606 E GREEN ST
ELECTRIC	Residential	32292755	11-09954	324 GARDEN DR
ELECTRIC	Residential	32292758	10-11610	4455 W MAIN ST
ELECTRIC	Residential	32292759	02-00900	401 E MAIN ST
ELECTRIC	Residential	32292765	02-01350	609 E MAIN ST
ELECTRIC	Residential	32292767	03-12960	205 N 8TH AVE 3
ELECTRIC	Residential	32292768	02-01325	603 E MAIN ST
ELECTRIC	Residential	32292769	03-12940	205 N 8TH AVE 4
ELECTRIC	Residential	32292772	14-04300	306 S 6TH AVE
ELECTRIC	Residential	32292774	02-01000	111 N 2ND AVE
ELECTRIC	Residential	32292776	03-11401	409 N 8TH AVE
ELECTRIC	Residential	32292779	03-12900	205 N 8TH AVE 6
ELECTRIC	Residential	32292780	03-10401	701 N 8TH AVE
ELECTRIC	Residential	32292783	08-11831	304 COURT ST
ELECTRIC	Residential	32292784	09-05401	512 W EDDY ST

ELECTRIC	Residential	32292785	03-12733	207 N 8TH AVE C
ELECTRIC	Residential	32292786	03-10300	707 N 8TH AVE
ELECTRIC	Residential	32292788	01-06309	817 E MAIN ST 3A
ELECTRIC	Residential	32292792	13-00901	160 GRIFFIN RD
ELECTRIC	Residential	32292793	13-06235	627 N 6TH AVE
ELECTRIC	Residential	32292796	06-01800	229 N IN AVE
ELECTRIC	Residential	32292798	03-04801	615 N 7TH AVE
ELECTRIC	Residential	32292805	01-13227	604A E BAY ST
ELECTRIC	Residential	32292815	01-10920	419 S TULANE AVE
ELECTRIC	Residential	32292816	14-03195	1086 MAKOWSKI RD
ELECTRIC	Residential	32292818	09-01305	411 S 11TH AVE
ELECTRIC	Residential	32292823	12-20412	129 W MAIN ST 201
ELECTRIC	Residential	32292826	07-20027	635 S 5TH AVE B204
ELECTRIC	Residential	32292833	03-03700	917 N 7TH AVE
ELECTRIC	Residential	32292834	12-20413	129 W MAIN ST 202
ELECTRIC	Residential	32292838	01-13204	606A E BAY ST
ELECTRIC	Residential	32292841	01-13002	628 E BAY ST
ELECTRIC	Residential	32292842	10-05354	358 CIRCLE DR
ELECTRIC	Residential	32292843	01-08631	717 E GREEN ST
ELECTRIC	Residential	32292854	10-07456	363 HIDDEN CREEK CIR
ELECTRIC	Residential	32292857	01-06448	817 E MAIN ST 5F
ELECTRIC	Residential	32292869	10-05350	388 CIRCLE DR
ELECTRIC	Residential	32292871	07-06723	309 CARLTON ST 1
ELECTRIC	Residential	32292873	05-07500	211 N 10TH AVE
ELECTRIC	Residential	32292874	03-10903	517 N 8TH AVE
ELECTRIC	Residential	32292878	11-21670	1010 S 9TH AVE 1
ELECTRIC	Residential	32292880	10-03350	1082 KNOLLWOOD CIR
ELECTRIC	Residential	32292881	03-07850	211 W GA ST
ELECTRIC	Residential	32292891	10-05355	345 CIRCLE DR
ELECTRIC	Residential	32292894	06-06900	525 N PA AVE
ELECTRIC	Residential	32292899	12-05800	528 W MAIN ST
ELECTRIC	Residential	32292903	02-00425	105 N 3RD AVE C102
ELECTRIC	Residential	32292904	01-10975	416 S TULANE AVE
ELECTRIC	Residential	32292905	02-00450	105 N 3RD AVE C101
ELECTRIC	Residential	32292906	02-00325	105 N 3RD AVE A102
ELECTRIC	Residential	32292907	06-03100	118 N PA AVE
ELECTRIC	Residential	32292909	02-00975	409 E MAIN ST
ELECTRIC	Residential	32292920	07-15202	125 CARLTON ST 37
ELECTRIC	Residential	32292924	01-08303	631 E GREEN ST
ELECTRIC	Residential	32292927	04-02060	721 LA PLAYA DR
ELECTRIC	Residential	32292932	14-09310	2846 W MAIN ST
ELECTRIC	Residential	32292933	01-06331	817 E MAIN ST 3C
ELECTRIC	Residential	32292936	01-06289	817 E MAIN ST 2B
ELECTRIC	Residential	32292937	13-10600	1121 W LA ST
ELECTRIC	Residential	32292949	06-09680	516 IL AVE
ELECTRIC	Residential	32292960	09-01909	513 PEACE DR
ELECTRIC	Residential	32292962	01-14800	508 E MAIN ST

ELECTRIC	Residential	32292968	10-04600	1425 LISA DR
ELECTRIC	Residential	32292973	03-11310	304 W GA ST
ELECTRIC	Residential	32292974	07-20007	635 S 5TH AVE A108
ELECTRIC	Residential	32292975	08-06001	812 S 9TH AVE
ELECTRIC	Residential	32292987	02-00175	303 E MAIN ST
ELECTRIC	Residential	32292988	01-06701	106 INGLIS WAY
ELECTRIC	Residential	32292989	06-10548	908 W LA ST
ELECTRIC	Residential	32292990	06-08349	113 N PA AVE
ELECTRIC	Residential	32292991	01-09001	612 E GREEN ST
ELECTRIC	Residential	32292992	10-08065	144 PALDAO ACRES
ELECTRIC	Residential	32292993	01-18550	206 E BAY ST
ELECTRIC	Residential	32292994	06-13000	912 W MAIN ST
ELECTRIC	Residential	32292999	02-02375	210 FORSYTHE AVE
ELECTRIC	Residential	32293002	04-00365	331 RIVERCHASE CIR
ELECTRIC	Residential	32293005	14-03520	702 S 6TH AVE
ELECTRIC	Residential	32293009	11-21655	1008 S 9TH AVE
ELECTRIC	Residential	32293012	10-07143	1023 BRIARWOOD
ELECTRIC	Residential	32293016	03-10900	601 N 8TH AVE
ELECTRIC	Residential	32293017	01-06470	111 INGLIS WAY
ELECTRIC	Residential	32293019	06-06801	801 W AL ST
ELECTRIC	Residential	32293021	04-02145	737 LA PLAYA DR
ELECTRIC	Residential	32293022	03-09410	810 N 8TH AVE
ELECTRIC	Residential	32293026	03-08301	212 GOOLSBY ST
ELECTRIC	Residential	32293027	03-11104	509 N 8TH AVE
ELECTRIC	Residential	32293030	01-07700	611 E GREEN ST
ELECTRIC	Residential	32293044	09-04800	807 S FL AVE
ELECTRIC	Commercial	32293046	12-14815	502 MARTIN L KING JR AVE
ELECTRIC	Residential	32293047	01-13350	401 S 1ST AVE
ELECTRIC	Residential	32293060	14-07020	1020 MAKOWSKI RD
ELECTRIC	Residential	32293064	04-00765	700 E TOWNSEND ST 9
ELECTRIC	Residential	32293065	12-10407	131 W MAIN ST OFFIC
ELECTRIC	Residential	32293077	10-07453	349 HIDDEN CREEK CIR
ELECTRIC	Residential	32293079	13-00855	MILLER ST
ELECTRIC	Residential	32293080	01-14300	510 E ORANGE ST
ELECTRIC	Residential	32293092	14-09328	AIRPORT RUNWAY LIGHT
ELECTRIC	Residential	32293093	06-07303	321 N PA AVE
ELECTRIC	Residential	32293094	04-00220	358 RIVERCHASE CIR
ELECTRIC	Residential	32293095	01-15000	504 E ORANGE ST
ELECTRIC	Residential	32293097	01-15300	211 S 2ND AVE
ELECTRIC	Residential	32293099	10-03360	1090 KNOLLWOOD CIR
ELECTRIC	Residential	32293102	02-11300	407 HEARD BRIDGE RD
ELECTRIC	Residential	32293111	02-06604	321 N TURNER AVE
ELECTRIC	Residential	32293113	06-01721	315 N IN AVE
ELECTRIC	Residential	32293116	01-08748	205 S WALTON AVE
ELECTRIC	Residential	32293122	09-01937	518 S 11TH AVE
ELECTRIC	Residential	32293131	03-04100	811 N 7TH AVE
ELECTRIC	Residential	32293137	01-12100	620 SAUNDERS ST

ELECTRIC	Residential	32293138	01-12000	402 S WALTON AVE
ELECTRIC	Residential	32293141	06-01795	301 N IN AVE
ELECTRIC	Residential	32293143	13-03540	406 N 6TH AVE
ELECTRIC	Residential	32293146	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	32293148	14-04101	214 W SHORT ST WAUCHULA
ELECTRIC	Residential	32293158	12-06000	521 W MAIN ST C
ELECTRIC	Residential	32293161	02-00875	108 N 3RD AVE
ELECTRIC	Residential	32293168	13-10613	612 W LA ST WAUCHULA F
ELECTRIC	Residential	32293169	04-00985	700 E TOWNSEND ST 52
ELECTRIC	Residential	32293172	01-06300	817 E MAIN ST 2C
ELECTRIC	Residential	32293174	06-01532	711 N OH AVE
ELECTRIC	Residential	32293175	07-20068	635 S 5TH AVE E105
ELECTRIC	Residential	32293178	07-16001	1020 MAKOWSKI RD 27
ELECTRIC	Residential	32293181	07-07203	901 SEMINOLE ST
ELECTRIC	Residential	32293188	09-04910	815 S FL AVE
ELECTRIC	Residential	32293200	03-14200	211 W OAK ST 7
ELECTRIC	Residential	32293201	01-06380	817 E MAIN ST 4B
ELECTRIC	Residential	32293202	02-04414	323 N DIANA AVE
ELECTRIC	Residential	32293205	12-06922	101 S 9TH AVE
ELECTRIC	Residential	32293219	01-13176	610B E BAY ST
ELECTRIC	Residential	32293222	10-06300	1310 CITRUS ST
ELECTRIC	Residential	32293225	03-04300	803 N 7TH AVE
ELECTRIC	Residential	32293227	01-13700	609 E SUMMIT ST
ELECTRIC	Residential	32293230	01-13600	415 S 1ST AVE
ELECTRIC	Residential	32293234	01-15644	208 S 3RD AVE
ELECTRIC	Residential	32293237	11-00600	340 MARTIN L KING JR AVE
ELECTRIC	Residential	32293238	08-02202	703 S 8TH AVE
ELECTRIC	Residential	32293242	11-11315	716 POLK RD
ELECTRIC	Residential	32293243	05-00100	212 N 9TH AVE
ELECTRIC	Residential	32293244	10-07044	1024 BRIARWOOD DR
ELECTRIC	Residential	32293245	11-23130	1090 DOWNING CIR
ELECTRIC	Residential	32293249	07-20142	635 S 5TH AVE
ELECTRIC	Residential	32293251	10-10500	4086 W MAIN ST
ELECTRIC	Residential	32293254	09-01915	604 PEACE DR
ELECTRIC	Residential	32293258	02-01600	117 N RUST AVE
ELECTRIC	Residential	32293259	09-02000	510 S 11TH AVE
ELECTRIC	Residential	32293261	12-14884	431 CARLTON ST
ELECTRIC	Residential	32293263	08-08100	822 S 10TH AVE
ELECTRIC	Residential	32293269	10-03195	1012 MAGNOLIA LN
ELECTRIC	Residential	32293270	03-14050	211 W OAK ST 4
ELECTRIC	Residential	32293271	01-06211	817 E MAIN ST 1A
ELECTRIC	Residential	32293280	10-00401	116 HANCHEY RD
ELECTRIC	Residential	32293281	10-00500	126 HANCHEY RD
ELECTRIC	Residential	32293282	10-00600	119 HANCHEY RD
ELECTRIC	Residential	32293284	06-01580	706 W AL ST
ELECTRIC	Residential	32293287	10-07435	259 HIDDEN CREEK
ELECTRIC	Residential	32293296	13-08650	603 N 9TH AVE

ELECTRIC	Residential	32293300	13-01623	130 PARK DR
ELECTRIC	Residential	32293304	13-09540	612 N FL AVE
ELECTRIC	Commercial	32293310	13-05575	1007 N 6TH AVE
ELECTRIC	Residential	32293319	13-09540	612 N FL AVE
ELECTRIC	Residential	32293321	01-13192	608B E BAY ST
ELECTRIC	Residential	32293330	01-11202	406 S TULANE AVE
ELECTRIC	Residential	32293331	12-00275	225 E MAIN ST CITY HALL
ELECTRIC	Residential	32293332	04-00780	700 E TOWNSEND ST 12
ELECTRIC	Residential	32293337	01-10953	418 S TULANE AVE
ELECTRIC	Residential	32293340	05-03603	701 N 9TH AVE
ELECTRIC	Residential	32293342	10-07200	316 TERRELL RD
ELECTRIC	Residential	32293345	06-00660	611 W HARVEY ST
ELECTRIC	Residential	32293348	13-05950	916 N 7TH AVE
ELECTRIC	Residential	32293349	12-04250	131 N 7TH AVE
ELECTRIC	Commercial	32293350	13-05575	1007 N 6TH AVE
ELECTRIC	Residential	32293351	12-05250	112 N 8TH AVE
ELECTRIC	Residential	32293352	13-09800	825 N FL AVE
ELECTRIC	Commercial	32293353	13-08900	511 W PALMETTO ST
ELECTRIC	Residential	32293384	07-19500	527 S 6TH AVE
ELECTRIC	Commercial	32293386	06-06804	802 W AL ST
ELECTRIC	Residential	32293387	11-21570	1015 S 9TH AVE 7
ELECTRIC	Residential	32293389	09-09318	708 OAK FOREST DR
ELECTRIC	Residential	32293391	10-07015	1411 HWY 64A W
ELECTRIC	Residential	32293396	01-09300	609 E BAY ST
ELECTRIC	Residential	32293398	01-09312	613 E BAY ST
ELECTRIC	Residential	32293399	08-03606	411 W EDDY ST
ELECTRIC	Residential	32293400	01-14130	210 S 1ST AVE
ELECTRIC	Residential	32293401	11-10648	1007 OSCEOLA LN
ELECTRIC	Residential	32293410	03-11305	302 W GA ST
ELECTRIC	Residential	32792577	10-09000	2820 CLOVER HILL
ELECTRIC	Residential	32792623	09-08000	704 HAWAIIAN DR
ELECTRIC	Residential	32792633	10-09200	64A HWY W
ELECTRIC	Residential	32792634	14-03560	640 S 6TH AVE
ELECTRIC	Residential	32792637	14-03550	620 S 6TH AVE
ELECTRIC	Residential	32993045	01-06480	109 INGLIS WAY
ELECTRIC	Residential	33861615	06-03700	224 N PA AVE
ELECTRIC	Residential	34226710	01-18520	302 AZALEA HILL
ELECTRIC	Residential	34226756	11-13900	311 N OH AVE
ELECTRIC	Commercial	35255670	14-07500	807 S 8TH AVE
ELECTRIC	Residential	35255677	14-08681	HANCHEY RD
ELECTRIC	Residential	35255678	12-00300	116 N 4TH AVE
ELECTRIC	Commercial	35255689	12-14889	440 CARLTON ST
ELECTRIC	Residential	35255693	14-08135	815 SOUTH FLORIDA AVE
ELECTRIC	Residential	35255694	13-03700	524 N 6TH AVE
ELECTRIC	Residential	35255702	12-04401	117 N 7TH AVE
ELECTRIC	Residential	35255703	13-06802	409 N 6TH AVE
ELECTRIC	Residential	35255706	14-04052	502 S 6TH AVE

ELECTRIC	Residential	35388816	07-18603	1050 MAKOWSKI RD 5
ELECTRIC	Residential	35388818	09-01912	607 PEACE DR
ELECTRIC	Commercial	35388819	14-08202	400 S FL AVE
ELECTRIC	Residential	35388825	11-22000	1010 S 8TH AVE
ELECTRIC	Residential	35388828	12-00006	208 N 3RD AVE
ELECTRIC	Residential	35388830	08-00603	211 S 8TH AVE
ELECTRIC	Residential	35388832	11-13820	197 GEORGETOWN LOOP
ELECTRIC	Residential	35388836	14-01200	409 S 6TH AVE
ELECTRIC	Residential	35388838	04-00815	700 E TOWNSEND ST 19
ELECTRIC	Residential	35388847	08-10000	620 S 8TH AVE
ELECTRIC	Residential	35388849	14-04114	322 S 6TH AVE
ELECTRIC	Residential	35388856	07-20038	635 S 5TH AVE C107
ELECTRIC	Residential	35388862	11-21524	1005 S 9TH AVE 2
ELECTRIC	Residential	35388864	07-13308	135 CARLTON ST 56
ELECTRIC	Residential	35388866	05-00450	314 W OAK ST
ELECTRIC	Residential	35388867	02-05801	211 N 1ST AVE
ELECTRIC	Residential	35388878	11-10480	210 BELL ST
ELECTRIC	Residential	35388879	11-09865	302 PARK DR
ELECTRIC	Residential	35388888	13-05800	915 N 6TH AVE
ELECTRIC	Residential	35388898	08-07400	825 S 10TH AVE
ELECTRIC	Residential	35388903	12-07210	131 S 8TH AVE
ELECTRIC	Residential	35711399	10-06447	1332 DAVIS ST
ELECTRIC	Residential	35711400	06-01526	908 W TN ST
ELECTRIC	Residential	35711404	04-02110	729 LA PLAYA DR
ELECTRIC	Residential	35711405	10-07459	202 HIDDEN CREEK CIR
ELECTRIC	Residential	35711425	04-00225	360 RIVERCHASE CIR
ELECTRIC	Residential	35711429	08-05600	820 S 9TH AVE
ELECTRIC	Residential	35711436	12-00001	CITY STREET LIGHTS
ELECTRIC	Residential	35711440	10-00801	141 HANCHEY RD
ELECTRIC	Commercial	35711444	14-08400	204 S 11TH AVE
ELECTRIC	Residential	35711451	11-21549	1009 S 9TH AVE 4
ELECTRIC	Residential	35711460	13-09610	664 POLK ROAD
ELECTRIC	Residential	35711468	05-06100	404 N 10TH AVE
ELECTRIC	Residential	35711469	02-07200	312 N SHELTON AVE
ELECTRIC	Residential	35711479	10-07207	1017 W LA ST
ELECTRIC	Residential	35711483	02-02645	605 E OAK ST
ELECTRIC	Residential	35711487	05-08055	513 W MAIN ST
ELECTRIC	Residential	35711494	08-13200	621 S 9TH AVE
ELECTRIC	Residential	35711501	09-09250	714 CROSBY LANE
ELECTRIC	Residential	35711502	14-07020	1020 MAKOWSKI RD
ELECTRIC	Residential	35711504	07-16803	1030 MAKOWSKI RD 17
ELECTRIC	Residential	35711507	05-00501	310 N 9TH AVE
ELECTRIC	Residential	35711510	09-09102	609 HAWAIIAN DR
ELECTRIC	Residential	35711512	08-13603	314 S 9TH AVE A
ELECTRIC	Residential	35711513	08-13400	320 S 9TH AVE
ELECTRIC	Residential	35711514	08-13600	314 S 9TH AVE B
ELECTRIC	Residential	35711515	08-13320	406 S 9TH AVE

ELECTRIC	Residential	35711516	11-10560	304 BELL ST
ELECTRIC	Residential	35711517	11-10655	1011 OSCEOLA LN
ELECTRIC	Residential	35711518	07-14403	135 CARLTON ST 45
ELECTRIC	Residential	35711524	07-07700	920 S 7TH AVE
ELECTRIC	Residential	35711534	05-08150	520 W MAIN ST 7
ELECTRIC	Residential	35711536	08-12714	513 S 9TH AVE
ELECTRIC	Residential	35711540	11-21554	1011 S 9TH AVE 5
ELECTRIC	Residential	35711541	11-13411	510 N OH AVE
ELECTRIC	Residential	35711543	12-00010	307 E MAIN ST
ELECTRIC	Residential	35711544	11-23000	1093 DOWNING CIR
ELECTRIC	Residential	35711549	06-04018	310 N PA AVE
ELECTRIC	Residential	35711554	14-09650	3218 JOHN HOLT RD
ELECTRIC	Residential	35711561	07-14505	135 CARLTON ST 46
ELECTRIC	Residential	35711562	05-04000	507 N 9TH AVE
ELECTRIC	Residential	35711563	07-13409	135 CARLTON 55
ELECTRIC	Residential	35711565	05-01210	313 W GA ST
ELECTRIC	Residential	35711569	07-10010	626 S 7TH AVE
ELECTRIC	Residential	35711576	11-21430	510 CARLTON ST
ELECTRIC	Residential	35711578	09-09210	712 CROSBY LN
ELECTRIC	Residential	35711580	05-08160	520 W MAIN ST 4
ELECTRIC	Residential	35711583	11-02160	365 MARTIN L KING JR AVE
ELECTRIC	Residential	35711586	07-06420	130 W GRAPEFRUIT ST
ELECTRIC	Residential	35711587	01-16700	112 S 2ND AVE
ELECTRIC	Residential	35711588	03-09801	809 N 8TH AVE
ELECTRIC	Residential	35711590	04-00960	700 E TOWNSEND ST 47
ELECTRIC	Residential	35711592	10-12370	2911 HIGHTOWER LN
ELECTRIC	Residential	35711596	10-03422	1265 KNOLLWOOD CIR
ELECTRIC	Residential	35711597	10-03411	1305 KNOLLWOOD CIR
ELECTRIC	Residential	35711598	10-03430	1245 KNOLLWOOD CIR
ELECTRIC	Residential	35711599	10-03450	1185 KNOLLWOOD CIR
ELECTRIC	Residential	35711601	09-02410	605 CONSTITUTION DR
ELECTRIC	Residential	35711602	02-07260	415 E OAK ST
ELECTRIC	Residential	35711604	03-13830	202 W MAIN 201
ELECTRIC	Residential	35711605	06-09320	812 W HARVEY ST
ELECTRIC	Residential	35711606	11-02180	339 MARTIN L KING JR AVE
ELECTRIC	Residential	35711618	02-07270	217 N 2ND AVE
ELECTRIC	Residential	35711622	11-13885	214 GEORGETOWN LOOP
ELECTRIC	Residential	35711628	02-02641	615 E OAK ST
ELECTRIC	Residential	35711630	02-11600	323 HEARD BRIDGE RD
ELECTRIC	Residential	35711632	14-09344	1308 MAURICE SONNY CLAVEL
ELECTRIC	Commercial	35711644	13-05575	1007 N 6TH AVE
ELECTRIC	Residential	35711648	08-07513	910 S 10TH AVE
ELECTRIC	Residential	35711650	08-01800	407 S 8TH AVE
ELECTRIC	Residential	35711660	11-02701	810 E BAY ST
ELECTRIC	Residential	35711665	10-07675	765 ALTMAN RD
ELECTRIC	Residential	35711666	10-07660	715 ALTMAN RD
ELECTRIC	Residential	35711669	10-07300	1237 W LA ST

ELECTRIC	Residential	35711671	10-12311	3544 HWY 64 WEST
ELECTRIC	Residential	35711771	07-17601	1040 MAKOWSKI RD 15
ELECTRIC	Residential	35711772	10-09150	3632 W MAIN ST
ELECTRIC	Residential	35711773	07-06230	118 W HOGAN ST
ELECTRIC	Residential	35711775	04-00095	371 EASON DR
ELECTRIC	Residential	35711777	05-10224	804 N FL AVE A
ELECTRIC	Residential	35711788	08-08800	606 S 10TH AVE
ELECTRIC	Residential	35711795	10-11500	4326 W MAIN ST
ELECTRIC	Residential	35711806	04-00330	353 RIVERCHASE CIR
ELECTRIC	Residential	35711808	06-13600	1004 W MAIN ST
ELECTRIC	Residential	35711809	05-05701	316 N 10TH AVE
ELECTRIC	Residential	35711810	10-00700	131 HANCHEY RD
ELECTRIC	Residential	35711812	07-17910	1040 MAKOWSKI RD 11
ELECTRIC	Residential	35711813	11-22750	1168 DOWNING CIR
ELECTRIC	Residential	35711814	07-14904	125 CARLTON ST 42
ELECTRIC	Residential	35711815	01-18000	117 S 3RD AVE
ELECTRIC	Residential	35711817	08-04615	304 PEACE DR
ELECTRIC	Residential	35711821	05-10420	606 W TN ST
ELECTRIC	Residential	35711829	04-00380	325 RIVERCHASE CIR
ELECTRIC	Commercial	35711835	07-05801	187 CRAVEN ST
ELECTRIC	Residential	35711836	10-03262	1067 MAGNOLIA LN
ELECTRIC	Residential	35711837	05-09598	812 N FL AVE C
ELECTRIC	Residential	35711838	10-06435	540 ORANGE AVE
ELECTRIC	Residential	35711845	08-09000	600 S 10TH AVE
ELECTRIC	Residential	35711857	07-06663	1051 DOWNING CIR 106
ELECTRIC	Commercial	35711859	07-20105	637 S 5TH AVE
ELECTRIC	Residential	35711871	12-00280	120 N 4TH AVE
ELECTRIC	Residential	35711872	02-12000	309 HEARD BRIDGE RD
ELECTRIC	Residential	35711874	09-01820	515 S 11TH AVE
ELECTRIC	Residential	35711876	13-04901	752 N 6TH AVE
ELECTRIC	Residential	35711883	12-00007	210 N 3RD AVE
ELECTRIC	Residential	35711885	06-03502	214 N PA AVE
ELECTRIC	Residential	35711888	07-20016	635 S 5TH AVE B101
ELECTRIC	Residential	35711891	11-09838	317 PARK DR
ELECTRIC	Residential	35711892	14-09333	AIRPORT LIFT STATION #20
ELECTRIC	Residential	35711893	07-17206	1030 MAKOWSKI RD 21
ELECTRIC	Residential	35711899	14-09509	END VANDOLAH RD(TARH
ELECTRIC	Residential	35711913	06-01902	223 N IN AVE
ELECTRIC	Residential	35711923	01-14200	516 E ORANGE ST
ELECTRIC	Residential	35711924	10-12355	3177 HIGHTOWER LANE
ELECTRIC	Residential	35711932	13-08420	320 N 9TH AVE
ELECTRIC	Residential	35711933	07-20000	635 S 5TH AVE A101
ELECTRIC	Residential	35711934	07-18105	1040 MAKOWSKI RD 9
ELECTRIC	Residential	35711935	07-15109	125 CARLTON 39
ELECTRIC	Residential	35711937	05-09300	802 N FL AVE
ELECTRIC	Residential	35711938	07-17702	1040 MAKOWSKI RD 14
ELECTRIC	Residential	35711940	07-19105	1050 MAKOWSKI RD 1

ELECTRIC	Residential	35711943	07-19295	1071 S 5TH AVE
ELECTRIC	Residential	35711948	10-03231	1037 MAGNOLIA LN (BARN)
ELECTRIC	Residential	35711950	10-07485	283 HIDDEN CREEK CIR
ELECTRIC	Residential	35711951	11-21450	920 S 10TH AVE
ELECTRIC	Residential	35711954	04-00230	362 RIVERCHASE CIR
ELECTRIC	Residential	35711958	08-05800	816 S 9TH AVE
ELECTRIC	Residential	35711962	10-11026	4212 W MAIN ST
ELECTRIC	Residential	35711963	11-05500	305 RIVERSIDE DR
ELECTRIC	Commercial	35711964	13-05585	202 BELL ST (&204-DUPLEX
ELECTRIC	Residential	35711972	11-10404	884 HEARD BRIDGE RD
ELECTRIC	Residential	35711974	09-01001	510 W HIGH ST
ELECTRIC	Residential	35711985	04-00075	708 E OAK ST
ELECTRIC	Residential	35711986	03-10108	715 N 8TH AVE
ELECTRIC	Residential	35711987	09-07400	815 HONOLULU DR
ELECTRIC	Residential	35711988	01-06390	817 E MAIN ST 4C
ELECTRIC	Residential	35711989	07-07300	907 SEMINOLE ST
ELECTRIC	Residential	35711991	01-14102	214 S 1ST AVE
ELECTRIC	Residential	35712003	09-00600	309 S 11TH AVE
ELECTRIC	Residential	35712007	06-07407	315 N PA AVE
ELECTRIC	Residential	35712008	08-13100	619 S 9TH AVE
ELECTRIC	Residential	35712011	09-06500	704 HONOLULU DR
ELECTRIC	Residential	35712012	08-05405	817 S 9TH AVE
ELECTRIC	Residential	35712014	14-08710	218 HANCHEY RD
ELECTRIC	Residential	35712020	10-08950	2871 CLOVERHILL DR
ELECTRIC	Residential	35712021	07-16303	1020 MAKOWSKI RD 32
ELECTRIC	Residential	35712023	14-03803	604 S 6TH AVE
ELECTRIC	Residential	35712026	08-03608	413 W EDDY ST
ELECTRIC	Residential	35712028	05-10225	804 N FL AVE B
ELECTRIC	Residential	35712034	04-00135	717 E OAK ST
ELECTRIC	Residential	35712035	05-04500	319 N 9TH AVE
ELECTRIC	Residential	35712036	05-03230	408 POLK RD
ELECTRIC	Residential	35712037	09-09200	702 S FL AVE
ELECTRIC	Residential	35712039	10-07439	272 HIDDEN CREEK
ELECTRIC	Residential	35712040	04-00760	700 E TOWNSEND ST 8
ELECTRIC	Residential	35712042	07-06807	309 CARLTON ST 10
ELECTRIC	Residential	35712044	02-00925	405 E MAIN ST
ELECTRIC	Residential	35712046	11-23030	1105 DOWNING CIR
ELECTRIC	Residential	35712054	08-05008	809 S 9TH AVE
ELECTRIC	Residential	35712055	09-04100	513 S FL AVE
ELECTRIC	Commercial	35712056	13-05585	202 BELL ST (&204-DUPLEX
ELECTRIC	Residential	35712067	11-11400	805 POLK RD
ELECTRIC	Residential	35712071	06-01266	705 N PA AVE
ELECTRIC	Residential	35712072	07-06800	309 CARLTON ST 9
ELECTRIC	Residential	35712074	07-12301	220 S 7TH AVE
ELECTRIC	Residential	35712076	07-14712	125 CARLTON ST 43
ELECTRIC	Residential	35712078	11-22961	1077 DOWNING CIR
ELECTRIC	Residential	35712079	11-22950	1189 DOWNING CIR

ELECTRIC	Residential	35712081	07-14603	125 CARLTON ST 44
ELECTRIC	Residential	35712083	11-10494	1006 N 8TH AVE
ELECTRIC	Residential	35712093	07-08200	215 W LANE ST
ELECTRIC	Residential	35712096	02-07310	214 N 3RD AVE
ELECTRIC	Residential	35712102	07-17103	1030 MAKOWSKI RD 22
ELECTRIC	Residential	35712107	07-17412	1030 MAKOWSKI RD 24
ELECTRIC	Residential	35712125	07-15313	125 CARLTON ST 38
ELECTRIC	Residential	35712127	07-10011	702 SEMINOLE ST
ELECTRIC	Residential	35712128	11-13870	280 GEORGETOWN LOOP
ELECTRIC	Residential	35712129	08-13230	610 S 9TH AVE
ELECTRIC	Residential	35712130	08-13240	512 S 9TH AVE
ELECTRIC	Residential	35712131	11-13875	272 GEORGETOWN LOOP
ELECTRIC	Residential	35712134	06-01271	705 IL AVE
ELECTRIC	Residential	35712135	13-05001	760 N 6TH AVE
ELECTRIC	Residential	35712144	07-06426	116 W GRAPEFRUIT ST
ELECTRIC	Residential	35712146	09-07203	804 AVENTINA AVE
ELECTRIC	Residential	35712148	10-07472	308 HIDDEN CREEK
ELECTRIC	Residential	35712151	07-20013	635 S 5TH AVE A206
ELECTRIC	Residential	35712152	08-04901	807 S 9TH AVE
ELECTRIC	Residential	35712154	09-02620	602 W HIGH ST
ELECTRIC	Residential	35712160	08-14670	309 S 10TH AVE
ELECTRIC	Residential	35712161	08-14660	307 S 10TH AVE
ELECTRIC	Residential	35712162	08-14690	315 S 10TH AVE
ELECTRIC	Residential	35712163	08-14630	219 S 10TH AVE
ELECTRIC	Residential	35712164	08-04100	812 S 8TH AVE
ELECTRIC	Residential	35712165	08-04512	804 S 8TH AVE
ELECTRIC	Residential	35712166	08-04201	810 S 8TH AVE
ELECTRIC	Residential	35712167	08-04600	802 S 8TH AVE
ELECTRIC	Residential	35712176	07-09600	711 SEMINOLE ST
ELECTRIC	Residential	35712178	07-06790	309 CARLTON ST 8
ELECTRIC	Residential	35712179	07-09710	717 SEMINOLE ST
ELECTRIC	Residential	35712182	10-07049	1005 BRIARWOOD DR.
ELECTRIC	Residential	35712187	10-03008	490 HANCHEY RD
ELECTRIC	Residential	35712188	10-10850	2865 CLYDE RD
ELECTRIC	Residential	35712190	10-07055	1029 BRIARWOOD DR
ELECTRIC	Residential	35712197	04-02150	739 LA PLAYA DR
ELECTRIC	Residential	35712200	10-07451	HIDDEN CREEK
ELECTRIC	Residential	35712204	03-13832	202 W MAIN 203
ELECTRIC	Residential	35712212	08-11004	322 S 8TH AVE
ELECTRIC	Residential	35712213	08-11100	316 S 8TH AVE
ELECTRIC	Residential	35712214	08-11204	312 S 8TH AVE
ELECTRIC	Residential	35712215	07-18409	1050 MAKOWSKI RD 8
ELECTRIC	Residential	35712216	08-12800	605 S 9TH AVE
ELECTRIC	Residential	35712217	11-23010	1097 DOWNING CIR
ELECTRIC	Residential	35712219	05-04101	509 N 9TH AVE
ELECTRIC	Residential	35712220	05-08130	520 W MAIN ST 8
ELECTRIC	Residential	35712223	05-08090	520 W MAIN ST 15

ELECTRIC	Residential	35712226	05-03360	715 N 9TH AVE
ELECTRIC	Residential	35712230	08-14700	321 S 10TH AVE
ELECTRIC	Residential	35712231	08-14680	313 S 10TH AVE
ELECTRIC	Residential	35712232	08-15400	415 S 10TH AVE
ELECTRIC	Residential	35712234	08-15002	401 S 10TH AVE B
ELECTRIC	Residential	35712235	08-15200	405 S 10TH AVE
ELECTRIC	Residential	35712239	06-00120	110 IN AVE
ELECTRIC	Residential	35712240	14-04062	410 S 6TH AVE
ELECTRIC	Residential	35712241	14-04015	508 S 6TH AVE
ELECTRIC	Residential	35712242	14-04024	512 S 6TH AVE
ELECTRIC	Commercial	35712254	14-08215	400 S FL AVE
ELECTRIC	Residential	35712255	14-09050	470 CIRCLE DR
ELECTRIC	Residential	35712263	07-12225	204 W BAY ST
ELECTRIC	Residential	35712272	10-12310	3546 HWY 64 W
ELECTRIC	Residential	35712273	05-01000	416 N 9TH AVE
ELECTRIC	Residential	35712277	07-10111	618 S 7TH AVE
ELECTRIC	Residential	35712281	06-08600	812 W MAIN ST
ELECTRIC	Residential	35712288	08-03604	904 S 8TH AVE
ELECTRIC	Residential	35712289	14-08839	59 HANCHEY RD
ELECTRIC	Residential	35712291	10-12380	3255 64 HWY E
ELECTRIC	Residential	35712296	11-13880	246 GEORGETOWN LOOP
ELECTRIC	Residential	35712297	11-22931	1169 DOWNING CIR
ELECTRIC	Residential	35712298	07-18507	1050 MAKOWSKI RD 7
ELECTRIC	Residential	35712299	11-13865	290 GEORGETOWN LOOP
ELECTRIC	Residential	35712306	02-07120	409 ALICE ST
ELECTRIC	Residential	35712307	11-10300	874 HEARD BRIDGE RD
ELECTRIC	Residential	35712310	05-10602	605 N FL AVE
ELECTRIC	Residential	35712311	02-06006	507 E PALMETTO ST
ELECTRIC	Residential	35712313	14-01205	411 S 6TH AVE
ELECTRIC	Residential	35712314	14-01150	401 S 6TH AVE
ELECTRIC	Residential	35712315	13-01700	1001 E MAIN ST
ELECTRIC	Residential	35712320	14-04113	324 S 6TH AVE
ELECTRIC	Commercial	35712321	14-08185	412 S FL AVE
ELECTRIC	Residential	35712322	14-04110	326 S 6TH AVE
ELECTRIC	Residential	35712329	02-09605	322 HEARD BRIDGE RD
ELECTRIC	Residential	35712330	13-06600	505 N 6TH AVE
ELECTRIC	Residential	35712333	14-09000	1406 LISA DR
ELECTRIC	Residential	35712347	10-03441	1225 KNOLLWOOD CIR
ELECTRIC	Commercial	35712354	14-08201	400 S FL AVE
ELECTRIC	Residential	35712364	05-12100	207 N FL AVE
ELECTRIC	Residential	35712376	08-03300	901 S 8TH AVE
ELECTRIC	Residential	35712379	11-00520	310 MARTIN L KING JR AVE
ELECTRIC	Residential	35712386	10-00850	148 HANCHEY RD
ELECTRIC	Residential	35712387	09-02607	420 S 11TH AVE
ELECTRIC	Residential	35712391	11-13800	1006 W LA ST
ELECTRIC	Residential	35712395	10-12365	3007 HIGHTOWER LANE
ELECTRIC	Residential	36346579	14-01601	601 & 611 S 6TH AVE

ELECTRIC	Residential	37512147	07-06425	114 W GRAPEFRUIT ST
ELECTRIC	Residential	37711603	11-13700	1004 W LA ST
ELECTRIC	Residential	37712246	09-00120	322 S 10TH AVE
ELECTRIC	Residential	38768022	12-07751	105 S 8TH AVE 101
ELECTRIC	Residential	38768026	12-07758	105 S 8TH AVE 206
ELECTRIC	Residential	39136761	12-07756	105 S 8TH AVE 204
ELECTRIC	Residential	39136767	07-04153	121 S 7TH AVE
ELECTRIC	Commercial	39136779	13-08201	906 N 8TH AVE
ELECTRIC	Residential	39136787	13-04710	740 N 6TH AVE
ELECTRIC	Residential	39136820	12-07754	105 S 8TH AVE 202
ELECTRIC	Residential	39136823	12-07752	105 S 8TH AVE 102
ELECTRIC	Residential	39136834	10-03841	338 STENSTROM RD 139
ELECTRIC	Residential	39136835	10-03810	338 STENSTROM RD 114
ELECTRIC	Residential	39136851	12-07757	105 S 8TH AVE 205
ELECTRIC	Residential	39136863	12-07755	105 S 8TH AVE 203
ELECTRIC	Residential	39136865	12-02550	135 E MAIN ST
ELECTRIC	Residential	39136866	12-02501	111 E MAIN ST
ELECTRIC	Residential	39136883	10-03830	338 STENSTROM RD 126
ELECTRIC	Residential	39136893	12-07753	105 S 8TH AVE 201
ELECTRIC	Residential	39481670	12-05000	214-216 W MAIN ST
ELECTRIC	Commercial	39481674	13-08150	405 N 8TH AVE
ELECTRIC	Residential	39481677	14-03490	802 S 6TH AVE
ELECTRIC	Residential	39481679	14-02820	905 S 6TH AVE
ELECTRIC	Residential	39481687	14-01560	535 S 6TH AVE SUITE 101
ELECTRIC	Residential	39481692	14-09344	1308 MAURICE SONNY CLAVEL
ELECTRIC	Residential	40018948	07-12803	212 S 7TH AVE 4
ELECTRIC	Residential	40053322	12-03207	W PALMETTO ST
ELECTRIC	Residential	40053680	12-14883	463 CARLTON ST
ELECTRIC	Residential	40053682	13-02150	133 E TOWNSEND ST
ELECTRIC	Residential	40053690	14-03430	118 CARLTON ST
ELECTRIC	Residential	40053691	12-04706	202 W MAIN ST 102
ELECTRIC	Residential	40053692	12-04704	202 W MAIN ST 101
ELECTRIC	Residential	40053693	13-06502	517 N 6TH AVE
ELECTRIC	Residential	40053696	12-06910	123 S 9TH AVE
ELECTRIC	Residential	40053697	12-04708	202 W MAIN ST 103
ELECTRIC	Commercial	40053698	13-02051	408 HEARD BRIDGE RD
ELECTRIC	Commercial	40053701	13-01910	408 HEARD BRIDGE RD
ELECTRIC	Residential	40053707	10-02300	387 HANCHEY RD
ELECTRIC	Residential	40209544	07-20015	635 S 5TH AVE A208
ELECTRIC	Residential	40209547	01-15633	210 S 3RD AVE
ELECTRIC	Residential	40209548	03-11314	301 GEORGIA ST
ELECTRIC	Residential	40209550	08-00501	207 S 8TH AVE
ELECTRIC	Residential	40209552	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	40209561	07-11402	216 W SHORT ST
ELECTRIC	Residential	40209570	05-10210	807 N FL AVE
ELECTRIC	Residential	40209571	08-13235	606 S 9TH AVE
ELECTRIC	Residential	40209573	08-08002	824 S 10TH AVE

ELECTRIC	Residential	40209575	10-07461	355 HIDDEN CREEK CIR
ELECTRIC	Residential	40209577	13-03509	322 N 6TH AVE
ELECTRIC	Residential	40209578	11-10620	418 BELL ST
ELECTRIC	Residential	40209583	10-09705	3587 W MAIN ST
ELECTRIC	Residential	40209587	05-10602	605 N FL AVE
ELECTRIC	Residential	40209594	11-02820	312 GRIFFIN RD
ELECTRIC	Residential	40209605	03-10008	306 W SOUTHERLAND ST
ELECTRIC	Residential	40209615	09-04911	821 S FL AVE
ELECTRIC	Residential	40209618	04-00955	700 E TOWNSEND ST 46
ELECTRIC	Residential	40209622	04-02115	731 LA PLAYA DR
ELECTRIC	Residential	40209624	02-05600	304 N TURNER AVE
ELECTRIC	Residential	40209625	10-01000	157 HANCHEY RD
ELECTRIC	Residential	40209629	08-02002	509 S 8TH AVE
ELECTRIC	Residential	40209655	11-01007	358 MARTIN L KING JR AVE
ELECTRIC	Residential	40209656	02-07280	213 N 2ND AVE
ELECTRIC	Residential	40209657	04-00385	323 RIVERCHASE CIR
ELECTRIC	Residential	40209658	12-06901	107 S 9TH AVE
ELECTRIC	Residential	40209663	13-00925	726 E GREEN ST
ELECTRIC	Residential	40209677	10-11032	3162 JOHN HOLT RD TRAILE
ELECTRIC	Residential	40209679	05-03200	425 BELL ST
ELECTRIC	Residential	40209681	11-10520	1009 N 8TH AVE
ELECTRIC	Residential	40209682	08-12525	402 S 9TH AVE
ELECTRIC	Residential	40209696	05-06505	311 N 10TH AVE
ELECTRIC	Residential	40209698	09-03307	303 S FL AVE
ELECTRIC	Residential	40209701	09-03901	501 S FL AVE
ELECTRIC	Residential	40209706	04-00060	702 E OAK ST
ELECTRIC	Residential	40209708	04-00865	700 E TOWNSEND ST 28
ELECTRIC	Residential	40209719	05-03102	816 N 9TH AVE
ELECTRIC	Residential	40209722	06-08502	808 W MAIN ST
ELECTRIC	Residential	40209724	08-00900	208 W BAY ST
ELECTRIC	Residential	40209726	10-03301	1072 MAGNOLIA LN
ELECTRIC	Residential	40209730	09-03950	503 S FL AVE
ELECTRIC	Residential	40209731	10-07059	1010 BRIARWOOD ESTATES
ELECTRIC	Residential	40209733	09-09324	711 OAK FOREST DR
ELECTRIC	Residential	40209737	06-08350	802 W MAIN ST
ELECTRIC	Residential	40209748	11-23155	1081 DOWNING CIR
ELECTRIC	Residential	40209750	01-15600	406 E BAY ST
ELECTRIC	Residential	40209761	09-03600	411 S FL AVE
ELECTRIC	Residential	40209762	08-03602	902 S 8TH AVE
ELECTRIC	Residential	40209763	09-03303	609 W BAY ST
ELECTRIC	Commercial	40209765	13-00620	213A-B E ORANGE ST
ELECTRIC	Residential	40209770	14-08950	1321 LISA DR
ELECTRIC	Residential	40209772	05-11380	607 W HARVEY ST
ELECTRIC	Residential	40209776	09-03212	225 S FL AVE
ELECTRIC	Residential	40209777	09-03205	213 S FL AVE
ELECTRIC	Residential	40209782	07-11050	217 W SHORT ST
ELECTRIC	Residential	40209793	12-10405	111 S 7TH AVE 104

ELECTRIC	Residential	40209800	07-04700	219 S 7TH AVE
ELECTRIC	Residential	40209802	06-10532	906 W LA ST
ELECTRIC	Residential	40209807	10-07693	1624 THOMPSON RD
ELECTRIC	Residential	40209813	09-03050	210 S 11TH AVE
ELECTRIC	Residential	40209814	05-02400	316 GOOLSBY ST
ELECTRIC	Residential	40209816	01-06372	817 E MAIN ST 4A
ELECTRIC	Residential	40209817	11-02450	307 MARTIN L KING JR AVE
ELECTRIC	Residential	40209823	07-08800	214 W STRICKLAND ST
ELECTRIC	Residential	40209824	04-02265	791 LA PLAYA DR
ELECTRIC	Residential	40209827	04-00810	700 E TOWNSEND ST 18
ELECTRIC	Residential	40209828	08-02800	802 SEMINOLE ST
ELECTRIC	Residential	40209842	09-00700	313 S 11TH AVE
ELECTRIC	Residential	40209857	07-11101	425 S 8TH AVE
ELECTRIC	Residential	40209866	05-10910	405 N FL AVE
ELECTRIC	Residential	40209869	07-06640	1051 DOWNING CIR 103
ELECTRIC	Residential	40209874	10-03580	1040 KNOLLWOOD CIR
ELECTRIC	Residential	40209876	09-08201	808 HAWAIIAN DR
ELECTRIC	Residential	40209880	08-15502	421 S 10TH AVE
ELECTRIC	Commercial	40209881	13-05585	202 BELL ST (&204-DUPLEX
ELECTRIC	Residential	40209887	04-02185	760 LA PLAYA DR
ELECTRIC	Residential	40209888	13-04602	702 N 6TH AVE
ELECTRIC	Residential	40209889	04-00065	704 E OAK ST
ELECTRIC	Residential	40209892	11-21510	1003 S 9TH AVE 1
ELECTRIC	Residential	40209895	07-06423	122 W GRAPEFRUIT ST
ELECTRIC	Commercial	40209904	13-05575	1007 N 6TH AVE
ELECTRIC	Residential	40209906	12-06180	132 S 10TH AVE
ELECTRIC	Residential	40209910	03-10000	801 N 8TH AVE
ELECTRIC	Residential	40209916	03-12005	301 N 8TH AVE FRONT
ELECTRIC	Residential	40231403	12-07550	105 S 8TH AVE 103
ELECTRIC	Residential	40231419	05-12901	103 N FL AVE
ELECTRIC	Residential	41130266	05-09502	812 N FL AVE A
ELECTRIC	Residential	41280793	10-07058	1012 BRIARWOOD DR
ELECTRIC	Residential	41280797	07-06699	1051 DOWNING CIR 110
ELECTRIC	Residential	41280799	09-09228	711 CROSBY LANE
ELECTRIC	Residential	41280801	07-13801	135 CARLTON ST 51
ELECTRIC	Residential	41280808	07-09300	706 S 7TH AVE
ELECTRIC	Residential	41280819	07-05020	321 S 7TH AVE
ELECTRIC	Residential	41280822	09-01901	519 S 11TH AVE
ELECTRIC	Residential	41280827	08-04629	302 PEACE DR
ELECTRIC	Residential	41280829	08-01909	505 S 8TH AVE
ELECTRIC	Residential	41280834	05-11400	605 W HARVEY ST
ELECTRIC	Residential	41280837	09-06900	810 HONOLULU DR
ELECTRIC	Residential	41280842	08-12700	407 S 9TH AVE
ELECTRIC	Residential	41280847	07-08600	804 S 7TH AVE
ELECTRIC	Residential	41280848	08-01300	311 S 8TH AVE
ELECTRIC	Residential	41280857	02-01050	406 E PALMETTO ST
ELECTRIC	Residential	41280869	02-06351	501 E OAK ST

ELECTRIC	Residential	41280870	02-06100	202 N 2ND AVE
ELECTRIC	Residential	41280884	11-02765	284 GRIFFIN RD
ELECTRIC	Residential	41280888	10-08200	134 ROGERS RD
ELECTRIC	Residential	41280889	13-02600	225 E OAK ST
ELECTRIC	Residential	41280892	02-00800	105 N 3RD AVE F102
ELECTRIC	Residential	41280894	04-00270	374 RIVERCHASE CIR
ELECTRIC	Residential	41280895	04-00265	372 RIVERCHASE CIR
ELECTRIC	Residential	41280921	04-02190	762 LA PLAYA DR
ELECTRIC	Residential	41280922	09-00060	426 S 10TH AVE A
ELECTRIC	Residential	41280929	04-00400	317 RIVERCHASE CIR
ELECTRIC	Residential	41280930	04-00410	313 RIVERCHASE CIR
ELECTRIC	Residential	41280931	04-00175	318 RIVERCHASE CIR
ELECTRIC	Residential	41280932	04-00180	300 RIVERCHASE CIR
ELECTRIC	Residential	41280935	04-00260	370 RIVERCHASE CIR
ELECTRIC	Residential	41280937	13-08500	312 W LA ST
ELECTRIC	Residential	41280943	02-11101	417 HEARD BRIDGE RD
ELECTRIC	Residential	41280946	05-05240	112 N 10TH AVE
ELECTRIC	Residential	41280949	05-07300	219 N 10TH AVE
ELECTRIC	Residential	41280967	08-06400	804 S 9TH AVE
ELECTRIC	Commercial	41280980	07-20104	635 S 5TH AVE
ELECTRIC	Residential	41280984	04-00085	712 E OAK ST
ELECTRIC	Residential	41280985	09-03800	421 S FL AVE
ELECTRIC	Residential	41280991	09-08700	805 HAWAIIAN DR
ELECTRIC	Residential	41280994	05-05903	411 W LA ST
ELECTRIC	Residential	41280997	01-11500	407 S WALTON AVE
ELECTRIC	Residential	41280999	05-10800	409 N FL AVE
ELECTRIC	Residential	41281003	11-23020	1101 DOWNING CIR
ELECTRIC	Residential	41281015	05-02600	616 N 9TH AVE
ELECTRIC	Residential	41281019	05-09700	818 N FL AVE
ELECTRIC	Residential	41281020	07-08100	902 S 7TH AVE
ELECTRIC	Residential	41281027	10-03481	1060 KNOLLWOOD CIR
ELECTRIC	Residential	41281030	09-00070	420 S 10TH AVE
ELECTRIC	Residential	41281034	04-02070	724 LA PLAYA DR
ELECTRIC	Residential	41281051	04-02230	777 LA PLAYA DR
ELECTRIC	Residential	41281061	08-12600	403 S 9TH AVE
ELECTRIC	Residential	41281067	04-02270	793 LA PLAYA DR
ELECTRIC	Residential	41281069	10-03090	1150 STENSTROM RD
ELECTRIC	Residential	41281070	09-08803	803 HAWAIIAN DR
ELECTRIC	Residential	41281071	08-05501	827 S 9TH AVE
ELECTRIC	Residential	41281117	12-05725	424 W MAIN ST
ELECTRIC	Residential	41281118	04-02055	719 LA PLAYA DR
ELECTRIC	Residential	41281119	02-01900	207 N RUST AVE
ELECTRIC	Residential	41281121	10-03665	1000 KNOLLWOOD CIRCLE
ELECTRIC	Residential	41281123	10-03640	1229 PINE COURT
ELECTRIC	Residential	41281131	09-09335	716 OAK FOREST DR
ELECTRIC	Residential	41281135	04-00945	700 E TOWNSEND ST 44
ELECTRIC	Residential	41281144	13-00960	175 GRIFFIN

ELECTRIC	Residential	41281145	02-07000	337 N TURNER AVE
ELECTRIC	Residential	41281146	12-14730	126 S 4TH AVE
ELECTRIC	Residential	41281149	03-08706	614 N 8TH AVE
ELECTRIC	Residential	41281151	04-02035	716 LA PLAYA DR
ELECTRIC	Residential	41281155	07-06673	1051 DOWNING CIR 107
ELECTRIC	Residential	41281156	11-10642	417 AMANDA LN
ELECTRIC	Residential	41281157	03-02800	602 N 7TH AVE
ELECTRIC	Residential	41281159	04-00106	367 EASON DR
ELECTRIC	Residential	41281164	04-01125	310 N 4TH AVE
ELECTRIC	Residential	41281165	05-08200	502 N FL AVE
ELECTRIC	Residential	41281169	08-03612	417 W EDDY ST
ELECTRIC	Residential	41281170	07-11803	316 S 7TH AVE
ELECTRIC	Residential	41281171	10-09100	3400 W MAIN ST
ELECTRIC	Residential	41281173	05-03400	713 N 9TH AVE
ELECTRIC	Residential	41281175	08-05700	818 S 9TH AVE
ELECTRIC	Residential	41281184	08-08704	610 S 10TH AVE
ELECTRIC	Residential	41281190	10-03332	1065 KNOLLWOOD CIR
ELECTRIC	Residential	41281192	13-10130	BRIARWOOD
ELECTRIC	Residential	41281193	04-00130	715 E OAK ST
ELECTRIC	Residential	41281210	11-02750	264 GRIFFIN RD
ELECTRIC	Residential	41281211	07-10205	614 S 7TH AVE
ELECTRIC	Residential	41281212	11-13860	279 GEORGETOWN LOOP
ELECTRIC	Residential	41281214	05-10223	805 N FL AVE
ELECTRIC	Residential	41281215	08-06700	801 S 10TH AVE
ELECTRIC	Residential	41281216	05-10237	803 N FL AVE
ELECTRIC	Residential	41281217	14-04501	234 S 6TH AVE
ELECTRIC	Residential	41281225	05-03290	403 POLK RD
ELECTRIC	Residential	41281226	08-03911	826 S 8TH AVE
ELECTRIC	Residential	41281230	05-05200	211 N 9TH AVE
ELECTRIC	Residential	41281231	05-12003	211 N FL AVE
ELECTRIC	Residential	41281236	02-09803	326 HEARD BRIDGE RD
ELECTRIC	Residential	41281248	06-07458	313 N PA AVE
ELECTRIC	Residential	41281249	06-01525	610 N OH AVE
ELECTRIC	Residential	41281253	14-09295	155 ALTMAN RD
ELECTRIC	Residential	41281258	11-10200	820 HEARD BRIDGE RD
ELECTRIC	Residential	41281261	04-00750	700 E TOWNSEND ST 6
ELECTRIC	Residential	41281262	02-07360	304 HEARD BRIDGE RD
ELECTRIC	Residential	41281270	12-05710	414 W MAIN ST
ELECTRIC	Residential	41281273	10-07476	301 HIDDEN CREEK CIR
ELECTRIC	Residential	41281274	04-00930	700 E TOWNSEND ST 41
ELECTRIC	Residential	41281289	11-10650	1004 N FL AVE
ELECTRIC	Residential	41281314	05-01308	311 W GA ST
ELECTRIC	Residential	41281328	10-03681	1284 STENSTROM RD
ELECTRIC	Residential	41281329	09-07300	821 HONOLULU DR
ELECTRIC	Residential	41281334	10-11032	3162 JOHN HOLT RD TRAILE
ELECTRIC	Residential	41281335	03-09304	804 N 8TH AVE
ELECTRIC	Residential	41281340	06-08300	123 N PA AVE

ELECTRIC	Residential	41281342	09-03305	611 W BAY ST
ELECTRIC	Residential	41281345	10-02225	1354 BLAIR LANE
ELECTRIC	Residential	41281346	10-01880	1321 TANGELO DR
ELECTRIC	Residential	41281347	10-02220	378 HANCHEY RD
ELECTRIC	Residential	41281349	10-03200	1000 MAGNOLIA LANE
ELECTRIC	Residential	41281350	10-06437	410 ORANGE AVE
ELECTRIC	Residential	41281352	10-02300	387 HANCHEY RD
ELECTRIC	Residential	41281360	05-03350	405 W SOUTHERLAND ST
ELECTRIC	Residential	41281367	09-09350	712 OAK FOREST DR
ELECTRIC	Residential	41281370	09-05600	519 W EDDY ST
ELECTRIC	Residential	41281371	07-08400	810 S 7TH AVE
ELECTRIC	Residential	41281391	10-03171	1030 MAGNOLIA LN
ELECTRIC	Residential	41281409	09-09342	810 SHADY NOOK CIR
ELECTRIC	Residential	41281415	13-02321	331 N 4TH AVE
ELECTRIC	Residential	41281416	13-02701	220 N 5TH AVE
ELECTRIC	Residential	41281420	04-00145	721 E OAK ST
ELECTRIC	Residential	41281421	04-00140	719 E OAK ST
ELECTRIC	Residential	41281422	04-00125	713 E OAK ST
ELECTRIC	Residential	41281429	04-00150	723 E OAK ST
ELECTRIC	Residential	41281458	10-03141	1045 KNOLLWOOD CIR
ELECTRIC	Residential	41281464	10-07452	317 HIDDEN CREEK CIR
ELECTRIC	Residential	41281466	02-02650	302 N DIANA AVE
ELECTRIC	Residential	41281470	07-07500	915 SEMINOLE ST
ELECTRIC	Residential	41281474	08-01650	229 W SHORT ST
ELECTRIC	Residential	41281475	05-03500	604 N 9TH AVE
ELECTRIC	Residential	41281476	07-10009	709 SEMINOLE ST
ELECTRIC	Residential	41281482	14-09340	N & S T HANGERS
ELECTRIC	Residential	41281483	14-09343	1263 M SONNY CLAVEL RD
ELECTRIC	Residential	41281487	11-22850	1132 DOWNING CIR
ELECTRIC	Residential	41281490	09-08500	820 HAWAIIAN DR
ELECTRIC	Residential	41281491	05-08170	520 W MAIN ST 5
ELECTRIC	Residential	41281497	03-12719	207 N 8TH AVE B
ELECTRIC	Residential	41281512	07-08350	202 LANE ST
ELECTRIC	Residential	41281513	09-02900	310 S 11TH AVE
ELECTRIC	Residential	41281515	10-03155	1052 MAGNOLIA LN
ELECTRIC	Residential	41281516	02-06500	317 N TURNER AVE
ELECTRIC	Residential	41281517	11-01085	805 E SUMMIT ST
ELECTRIC	Residential	41281518	11-01775	694 MARTIN L KING JR AVE
ELECTRIC	Commercial	41281521	13-08410	320 N 9TH AVE
ELECTRIC	Residential	41281525	11-01770	762 OWENS DR
ELECTRIC	Residential	41281526	11-01080	366 MARTIN L KING JR AVE
ELECTRIC	Residential	41281530	11-02010	690 MARTIN L KING JR AVE
ELECTRIC	Residential	41281535	02-02700	607 E PALMETTO ST
ELECTRIC	Residential	41281539	09-04200	519 S FL AVE
ELECTRIC	Residential	41281550	11-10558	302 BELL ST
ELECTRIC	Residential	41281551	07-15906	1020 MAKOWSKI RD 28
ELECTRIC	Residential	41281552	08-10600	516 S 8TH AVE

ELECTRIC	Residential	41281554	10-03460	1070 KNOLLWOOD CIR
ELECTRIC	Residential	41281555	07-12601	212 S 7TH AVE 3
ELECTRIC	Residential	41281556	07-12711	212 S 7TH AVE 5
ELECTRIC	Residential	41281557	09-09333	718 OAK FOREST DR
ELECTRIC	Residential	41281561	09-09345	714 OAK FOREST DR
ELECTRIC	Residential	41281564	09-09351	704 OAK FOREST DR
ELECTRIC	Residential	41281565	08-10409	606 S 8TH AVE
ELECTRIC	Residential	41281566	14-09595	4026 W MAIN ST
ELECTRIC	Residential	41281567	02-07130	323 N SHELTON AVE
ELECTRIC	Residential	41281582	14-09645	3232 JOHN HOLT RD
ELECTRIC	Residential	41281587	07-06415	136 W GRAPEFRUIT ST
ELECTRIC	Residential	41281591	02-07250	411 E OAK ST
ELECTRIC	Residential	41281597	09-09348	706 OAK FOREST DR
ELECTRIC	Residential	41281600	04-00395	319 RIVERCHASE CIR
ELECTRIC	Residential	41281604	11-02000	670 MARTIN L KING JR AVE
ELECTRIC	Residential	41281611	09-02700	318 S 11TH AVE
ELECTRIC	Residential	41281616	14-09595	4026 W MAIN ST
ELECTRIC	Residential	41281620	08-07300	821 S 10TH AVE
ELECTRIC	Residential	41281621	08-08500	802 S 10TH AVE
ELECTRIC	Residential	41281623	14-09565	OAK GROVE RD BARN
ELECTRIC	Residential	41281627	07-06779	309 CARLTON ST 7
ELECTRIC	Residential	41281631	14-09336	AIRPORT GAS PUMPS
ELECTRIC	Commercial	41281634	13-08400	204 N 9TH AVE
ELECTRIC	Residential	41281653	10-03501	1182 ASPEN LANE
ELECTRIC	Residential	41281658	11-02901	235 GRIFFIN RD
ELECTRIC	Residential	41281660	10-01200	1319 GRADY REVELL RD
ELECTRIC	Residential	41281669	05-03100	814 N 9TH AVE
ELECTRIC	Residential	41281676	11-02800	290 GRIFFIN RD
ELECTRIC	Commercial	41281678	06-01516	835 W TN ST
ELECTRIC	Residential	41281681	05-03190	417 BELL ST
ELECTRIC	Residential	41281682	05-00300	218 N 9TH AVE
ELECTRIC	Residential	41281686	05-03120	902 N 9TH AVE
ELECTRIC	Residential	41281692	04-00280	378 RIVERCHASE CIR
ELECTRIC	Residential	41281693	05-02200	311 GOOLSBY ST
ELECTRIC	Residential	41281699	11-21598	1019 S 9TH AVE 9
ELECTRIC	Residential	41281707	05-01801	314 W GA ST
ELECTRIC	Residential	41281708	05-01902	504 N 9TH AVE
ELECTRIC	Residential	41281717	09-09313	705 OAK FOREST DR
ELECTRIC	Residential	41281718	02-07230	307 N SHELTON AVE
ELECTRIC	Residential	41281719	09-09230	715 CROSBY LANE
ELECTRIC	Residential	41281720	09-09312	703 OAK FOREST DR
ELECTRIC	Residential	41281727	11-00100	701 S 1ST AVE
ELECTRIC	Residential	41281729	07-12401	212 S 7TH AVE 1
ELECTRIC	Residential	41281736	11-21679	1012 S 9TH AVE 2
ELECTRIC	Residential	41281748	08-01402	315 S 8TH AVE
ELECTRIC	Residential	41281749	12-07420	908 S 8TH AVE
ELECTRIC	Residential	41281750	05-03600	606 N 9TH AVE

ELECTRIC	Residential	41281753	10-04202	1354 LISA DR
ELECTRIC	Residential	41281755	05-03148	1013 N 9TH AVE
ELECTRIC	Residential	41281756	05-03145	1007 N 9TH AVE
ELECTRIC	Residential	41281757	05-03140	910 N 9TH AVE
ELECTRIC	Residential	41281758	06-01415	809 W TN ST
ELECTRIC	Residential	41281759	06-01518	609 IL AVE
ELECTRIC	Residential	41281760	07-20034	635 S 5TH AVE C103
ELECTRIC	Residential	41281763	08-08400	808 S 10TH AVE
ELECTRIC	Residential	41281765	02-02300	707 E PALMETTO ST
ELECTRIC	Residential	41281775	11-00121	601 S 1ST AVE
ELECTRIC	Residential	41281777	05-05272	120A N 10TH AVE
ELECTRIC	Residential	41281781	02-05900	513 E PALMETTO ST
ELECTRIC	Residential	41281783	05-02000	510 N 9TH AVE
ELECTRIC	Residential	41784603	10-01274	1324 TANGELO DR
ELECTRIC	Residential	43088920	14-03490	802 S 6TH AVE
ELECTRIC	Residential	46916633	11-10649	1010 OSCEOLA LN
ELECTRIC	Residential	46916640	10-09703	3858 W MAIN ST
ELECTRIC	Residential	46916641	07-14307	135 CARLTON ST 48
ELECTRIC	Residential	46916643	04-01233	827 E OAK ST 102
ELECTRIC	Residential	46916650	04-00080	710 E OAK ST
ELECTRIC	Residential	46916651	01-13103	622 E BAY ST
ELECTRIC	Residential	46916653	04-00905	700 E TOWNSEND ST 36
ELECTRIC	Residential	46916654	04-00995	205 E TOWNSEND ST
ELECTRIC	Residential	46916655	04-00900	700 E TOWNSEND ST 35
ELECTRIC	Residential	46916660	02-00825	118 N 3RD AVE
ELECTRIC	Residential	46916663	10-07410	298 HIDDEN CREEK CIR
ELECTRIC	Residential	46916668	04-00920	700 E TOWNSEND ST 39
ELECTRIC	Residential	46916669	02-05626	510B E OAK ST
ELECTRIC	Residential	46916671	14-04200	117 W BAY ST
ELECTRIC	Residential	46916672	14-04210	119 W BAY ST
ELECTRIC	Residential	46916673	02-01125	112 N 2ND AVE
ELECTRIC	Residential	46916677	05-05550	306 N 10TH AVE
ELECTRIC	Residential	46916678	07-06421	126 W GRAPEFRUIT ST
ELECTRIC	Residential	46916680	02-02340	706 E PALMETTO ST
ELECTRIC	Residential	46916686	08-05906	814 S 9TH AVE
ELECTRIC	Residential	46916709	04-00355	341 RIVERCHASE CIR
ELECTRIC	Residential	46916710	04-00350	343 RIVERCHASE CIR
ELECTRIC	Residential	46916711	04-00345	345 RIVERCHASE CIR
ELECTRIC	Residential	46916712	04-00340	347 RIVERCHASE CIR
ELECTRIC	Residential	46916715	04-00785	700 E TOWNSEND ST 13
ELECTRIC	Residential	46916717	06-13500	111 N OH AVE
ELECTRIC	Residential	47130182	02-02960	209 N 1ST AVE
ELECTRIC	Residential	47130183	02-03000	212 N 1ST AVE
ELECTRIC	Residential	47130184	01-16600	116 S 2ND AVE
ELECTRIC	Residential	47130190	06-01533	713 N OH AVE
ELECTRIC	Residential	47130191	07-06424	120 W GRAPEFRUIT ST
ELECTRIC	Residential	47130192	11-21699	1016 S 9TH AVE 4

ELECTRIC	Residential	47130193	04-00870	700 E TOWNSEND ST 29
ELECTRIC	Residential	47130194	01-09700	709 E BAY ST
ELECTRIC	Residential	47130195	01-11701	417 S WALTON AVE
ELECTRIC	Residential	47130196	01-16200	405 E ORANGE ST
ELECTRIC	Residential	47130197	01-09800	711 E BAY ST
ELECTRIC	Residential	47130199	03-05200	601 N 7TH AVE
ELECTRIC	Residential	47130200	03-05304	515 N 7TH AVE A
ELECTRIC	Residential	47130201	03-05307	515 N 7TH AVE B
ELECTRIC	Residential	47130203	01-12409	607 SAUNDERS ST
ELECTRIC	Residential	47130204	01-12803	316 S WALTON AVE
ELECTRIC	Residential	47130205	01-12497	615 SAUNDERS ST
ELECTRIC	Residential	47130206	01-14000	515 E BAY ST
ELECTRIC	Residential	47130207	03-05998	208 W LA ST
ELECTRIC	Residential	47130208	01-15614	212 S 3RD AVE
ELECTRIC	Residential	47130209	01-10200	720 E BAY ST
ELECTRIC	Residential	47130210	13-04800	748 N 6TH AVE
ELECTRIC	Residential	47130213	01-08721	704 E GREEN ST
ELECTRIC	Residential	47130214	03-11300	505 N 8TH AVE
ELECTRIC	Residential	47130217	06-01595	507 N IN AVE
ELECTRIC	Residential	47130219	12-00302	219 E MAIN ST
ELECTRIC	Residential	47130220	02-02951	210 N 1ST AVE
ELECTRIC	Residential	47130224	03-05500	505 N 7TH AVE
ELECTRIC	Residential	47130225	08-00803	214 W BAY ST
ELECTRIC	Residential	47130227	04-00915	700 E TOWNSEND ST 38
ELECTRIC	Residential	47130229	11-09932	316 GARDEN DR
ELECTRIC	Residential	47130230	06-00200	611 W PALMETTO ST
ELECTRIC	Residential	47130232	11-21693	1014 S 9TH AVE 3
ELECTRIC	Residential	47130233	06-12700	113 IL AVE
ELECTRIC	Commercial	47130236	14-08300	205 S 11TH AVE
ELECTRIC	Residential	47130243	03-05700	409 N 7TH AVE
ELECTRIC	Residential	47130245	03-05601	501 N 7TH AVE
ELECTRIC	Residential	47130247	01-16500	118 S 2ND AVE
ELECTRIC	Residential	47130249	03-04400	205 W SOUTHERLAND ST
ELECTRIC	Residential	47130251	07-07404	911 SEMINOLE ST
ELECTRIC	Residential	47130252	03-04708	214 W TOWNSEND ST
ELECTRIC	Residential	47130253	01-16303	411 E ORANGE ST
ELECTRIC	Residential	47130254	03-05010	611 N 7TH AVE 1)
ELECTRIC	Residential	47130255	01-16175	404 E ORANGE ST
ELECTRIC	Residential	47130256	01-10100	722 E BAY ST
ELECTRIC	Residential	47130257	03-05000	611 N 7TH AVE
ELECTRIC	Residential	47130262	01-11650	411 S WALTON AVE
ELECTRIC	Residential	47130263	01-11302	408 S WI AVE
ELECTRIC	Residential	47130264	02-01575	114 N RUST AVE
ELECTRIC	Residential	47130267	06-11100	305 IL AVE
ELECTRIC	Residential	47784445	01-18500	309 E BAY ST
ELECTRIC	Residential	47784446	14-03480	804 S 6TH AVE
ELECTRIC	Residential	47784447	06-12800	904 W MAIN ST

ELECTRIC	Residential	47784449	01-06465	114 INGLIS WAY
ELECTRIC	Residential	47784459	06-00700	310 N IN AVE
ELECTRIC	Residential	47784461	06-01531	710 N OH AVE
ELECTRIC	Residential	47784463	06-01536	910 W AL ST
ELECTRIC	Residential	47784465	01-08641	719 E GREEN ST
ELECTRIC	Residential	47784466	02-07290	203 N 2ND AVE
ELECTRIC	Residential	47784468	06-01200	702 W TN ST
ELECTRIC	Residential	47784469	02-00350	105 N 3RD AVE A203
ELECTRIC	Residential	47784470	05-09530	812 N FL AVE B
ELECTRIC	Residential	47784471	03-09600	912 N 8TH AVE
ELECTRIC	Residential	47784479	10-04300	1378 LISA DR
ELECTRIC	Residential	47784483	03-08902	704 N 8TH AVE
ELECTRIC	Residential	47784485	03-08796	616 N 8TH AVE
ELECTRIC	Residential	47784486	03-12764	207 N 8TH AVE E
ELECTRIC	Residential	47784487	14-03380	102 CARLTON ST
ELECTRIC	Residential	47784488	03-12800	205 N 8TH AVE 2
ELECTRIC	Residential	47784489	03-12108	301 W OAK ST
ELECTRIC	Residential	47784490	03-12201	213 N 8TH AVE
ELECTRIC	Residential	47784491	01-13253	602A E BAY ST
ELECTRIC	Residential	47784492	03-12120	305 W OAK ST
ELECTRIC	Residential	47784493	01-13215	606B E BAY ST
ELECTRIC	Residential	47784494	03-12110	303 W OAK ST
ELECTRIC	Residential	47784495	01-13266	602B E BAY ST
ELECTRIC	Residential	47784498	12-10412	111 S 7TH AVE 101
ELECTRIC	Residential	47784502	06-11200	904 W HARVEY ST
ELECTRIC	Residential	47784504	11-22801	1157 DOWNING CIR
ELECTRIC	Residential	47784505	06-11402	910 W HARVEY ST
ELECTRIC	Residential	47784510	01-07600	605 E GREEN ST
ELECTRIC	Residential	47784512	03-14150	211 W OAK ST 6
ELECTRIC	Residential	47784514	08-01200	307 S 8TH AVE
ELECTRIC	Residential	47784515	05-07600	207 N 10TH AVE
ELECTRIC	Residential	47784516	11-06100	317 RIVERSIDE DR
ELECTRIC	Residential	47784517	11-11300	POLK RD (PUMP METER)
ELECTRIC	Residential	47784523	06-08103	804 W PALMETTO ST
ELECTRIC	Residential	47784526	11-01753	660 MARTIN L KING JR AVE
ELECTRIC	Residential	47784527	05-10270	607 W KY ST
ELECTRIC	Residential	47784531	07-20103	635 S 5TH AVE G108
ELECTRIC	Residential	47784532	06-11800	911 W HARVEY ST
ELECTRIC	Residential	47784534	10-01650	1353 TANGELO DR
ELECTRIC	Residential	47784537	11-02175	347 MARTIN L KING JR AVE
ELECTRIC	Residential	47784538	07-20067	635 S 5TH AVE E104
ELECTRIC	Residential	47784542	14-08180	S FL AVE
ELECTRIC	Residential	47784543	14-04090	402 S 6TH AVE
ELECTRIC	Commercial	47784544	13-08950	511 W PALMETTO ST
ELECTRIC	Residential	47784546	09-06300	804 S FL AVE
ELECTRIC	Residential	47784547	04-02100	730 LA PLAYA DR
ELECTRIC	Residential	47784549	06-01277	606 N PA AVE

ELECTRIC	Residential	47784551	07-07600	204 CARLTON ST
ELECTRIC	Residential	47784552	05-00010	315 W PALMETTO ST
ELECTRIC	Residential	47784555	02-11704	319 HEARD BRIDGE RD
ELECTRIC	Residential	47784564	11-07210	314 RIVERSIDE DR
ELECTRIC	Residential	47784575	07-18708	1050 MAKOWSKI RD 6
ELECTRIC	Residential	47784586	10-03730	711 HANCHEY RD
ELECTRIC	Residential	47784595	14-04070	404 S 6TH AVE
ELECTRIC	Residential	47784597	06-07650	225 N PA AVE
ELECTRIC	Residential	47784598	12-06020	529 W MAIN ST
ELECTRIC	Residential	47784599	03-11905	309 N 8TH AVE
ELECTRIC	Residential	47784600	03-12796	205 N 8TH AVE 1
ELECTRIC	Residential	47784601	10-01851	1387 TANGELO DR
ELECTRIC	Residential	47784602	10-01870	1431 TANGELO DR
ELECTRIC	Residential	47784604	10-01240	1419 GRADY REVELL RD
ELECTRIC	Residential	47784611	06-10101	525 IL AVE
ELECTRIC	Residential	47784612	10-03970	1309 LISA DR
ELECTRIC	Residential	47784615	11-02850	273 GRIFFIN RD
ELECTRIC	Residential	47784623	10-03980	1321 LISA DR
ELECTRIC	Residential	47784624	06-04003	308 N PA AVE
ELECTRIC	Residential	47784628	11-22860	1141 DOWNING CIR
ELECTRIC	Residential	47784629	10-05200	483 CIRCLE DR
ELECTRIC	Residential	47784630	10-04902	1436 LISA DR
ELECTRIC	Residential	47784631	10-05301	463 CIRCLE DR
ELECTRIC	Residential	47784632	10-05300	478 CIRCLE DR
ELECTRIC	Residential	47821341	12-14887	437 CARLTON ST
ELECTRIC	Residential	47821342	13-00600	215 E ORANGE ST
ELECTRIC	Residential	47821348	12-00015	205 N 3RD AVE
ELECTRIC	Residential	47945708	07-20039	635 S 5TH AVE C108
ELECTRIC	Commercial	47945734	07-20106	639 S 5TH AVE
ELECTRIC	Residential	47945735	07-20043	635 S 5TH AVE C204
ELECTRIC	Residential	47945737	07-20026	635 S 5TH AVE B203
ELECTRIC	Residential	47945738	07-20004	635 S 5TH AVE A105
ELECTRIC	Residential	47946013	07-20012	635 S 5TH AVE A205
ELECTRIC	Residential	47946015	07-20009	635 S 5TH AVE A202
ELECTRIC	Residential	47946016	07-20014	635 S 5TH AVE A207
ELECTRIC	Residential	48603719	02-01100	114 N 2ND AVE
ELECTRIC	Residential	48908219	07-20017	635 S 5TH AVE B102
ELECTRIC	Residential	48908220	07-20001	635 S 5TH AVE A102
ELECTRIC	Residential	48908222	07-20011	635 S 5TH AVE A204
ELECTRIC	Residential	48908223	07-20010	635 S 5TH AVE A203
ELECTRIC	Residential	48908228	07-20023	635 S 5TH AVE B108
ELECTRIC	Residential	48908229	07-20076	635 S 5TH AVE E205
ELECTRIC	Residential	48908230	10-01212	1337 GRADY REVELL RD
ELECTRIC	Residential	48908231	07-20071	635 S 5TH AVE E108
ELECTRIC	Residential	48908233	07-20066	635 S 5TH AVE E103
ELECTRIC	Residential	48908235	07-20079	635 S 5TH AVE E208
ELECTRIC	Residential	48908236	07-20070	635 S 5TH AVE E107

ELECTRIC	Residential	48908237	07-20077	635 S 5TH AVE E206
ELECTRIC	Residential	48908238	07-20078	635 S 5TH AVE E207
ELECTRIC	Residential	48908241	07-20086	635 S 5TH AVE F107
ELECTRIC	Residential	48908242	07-20080	635 S 5TH AVE F101
ELECTRIC	Residential	48908243	07-20083	635 S 5TH AVE F104
ELECTRIC	Residential	48908244	07-20084	635 S 5TH AVE F105
ELECTRIC	Residential	48908245	07-20081	635 S 5TH AVE F102
ELECTRIC	Residential	48908246	08-13500	318 S 9TH AVE
ELECTRIC	Residential	48908247	07-20093	635 S 5TH AVE F206
ELECTRIC	Residential	48908248	07-20091	635 S 5TH AVE F204
ELECTRIC	Residential	48908249	07-20085	635 S 5TH AVE F106
ELECTRIC	Residential	48908250	07-20087	635 S 5TH AVE F108
ELECTRIC	Residential	48908251	07-20095	635 S 5TH AVE F208
ELECTRIC	Commercial	48908252	07-20104	635 S 5TH AVE
ELECTRIC	Residential	48908253	07-20090	635 S 5TH AVE F203
ELECTRIC	Residential	48908254	07-20082	635 S 5TH AVE F103
ELECTRIC	Residential	48908255	07-20089	635 S 5TH AVE F202
ELECTRIC	Residential	48908256	07-20025	635 S 5TH AVE B202
ELECTRIC	Residential	48908257	07-20020	635 S 5TH AVE B105
ELECTRIC	Residential	48908258	07-20031	635 S 5TH AVE B208
ELECTRIC	Residential	48908259	07-20022	635 S 5TH AVE B107
ELECTRIC	Residential	48908262	07-20021	635 S 5TH AVE B106
ELECTRIC	Residential	48908263	07-20030	635 S 5TH AVE B207
ELECTRIC	Residential	48908264	07-20075	635 S 5TH AVE E204
ELECTRIC	Residential	48908265	07-20069	635 S 5TH AVE E106
ELECTRIC	Residential	48908266	07-20072	635 S 5TH AVE E201
ELECTRIC	Residential	48908267	07-20065	635 S 5TH AVE E102
ELECTRIC	Residential	48908268	07-20064	635 S 5TH AVE E101
ELECTRIC	Residential	48908269	07-20074	635 S 5TH AVE E203
ELECTRIC	Residential	48908270	07-20073	635 S 5TH AVE E202
ELECTRIC	Residential	48908271	07-20094	635 S 5TH AVE F207
ELECTRIC	Commercial	48908273	07-20104	635 S 5TH AVE
ELECTRIC	Residential	48908275	07-20046	635 S 5TH AVE C207
ELECTRIC	Residential	48908283	07-20102	635 S 5TH AVE G107
ELECTRIC	Residential	48908285	07-20097	635 S 5TH AVE G102
ELECTRIC	Residential	48908286	07-20098	635 S 5TH AVE G103
ELECTRIC	Residential	48908289	07-20044	635 S 5TH AVE C205
ELECTRIC	Residential	48908290	07-20036	635 S 5TH AVE C105
ELECTRIC	Residential	48908291	07-20047	635 S 5TH AVE C208
ELECTRIC	Residential	48908293	07-20033	635 S 5TH AVE C102
ELECTRIC	Residential	48908294	07-20032	635 S 5TH AVE C101
ELECTRIC	Residential	48908295	07-20045	635 S 5TH AVE C206
ELECTRIC	Residential	48908296	07-20040	635 S 5TH AVE C201
ELECTRIC	Residential	48908297	07-20042	635 S 5TH AVE C203
ELECTRIC	Residential	48908298	07-20041	635 S 5TH AVE C202
ELECTRIC	Residential	48908299	07-20035	635 S 5TH AVE C104
ELECTRIC	Residential	48908300	07-20099	635 S 5TH AVE G104

ELECTRIC	Residential	49018932	08-12200	207 S 9TH AVE
ELECTRIC	Residential	49018933	08-04001	820 S 8TH AVE B
ELECTRIC	Residential	49018934	08-10800	408 S 8TH AVE
ELECTRIC	Residential	49018937	08-09300	407 W MELENDY ST
ELECTRIC	Residential	49018938	08-09700	319 W MELENDY ST
ELECTRIC	Residential	49018939	09-08300	812 HAWAIIAN DR
ELECTRIC	Residential	49018943	02-04901	334 N TURNER AVE
ELECTRIC	Residential	49018950	08-12511	319 S 9TH AVE
ELECTRIC	Residential	49018951	08-12507	317 S 9TH AVE
ELECTRIC	Residential	49018952	08-13220	627 S 9TH AVE
ELECTRIC	Residential	49018954	08-09600	323 W MELENDY ST
ELECTRIC	Residential	49018958	09-07201	812 AVENTINA AVE
ELECTRIC	Residential	49018960	04-00840	700 E TOWNSEND ST 24
ELECTRIC	Residential	49018961	09-06600	708 HONOLULU DR
ELECTRIC	Residential	49018963	02-00775	105 N 3RD AVE F101
ELECTRIC	Residential	49018964	04-00195	348 RIVERCHASE CIR
ELECTRIC	Residential	49018965	04-00200	350 RIVERCHASE CIR
ELECTRIC	Residential	49018966	04-00190	346 RIVERCHASE CIR
ELECTRIC	Residential	49018967	04-00250	392 RIVERCHASE CIR
ELECTRIC	Residential	49018968	02-02850	603 E PALMETTO ST
ELECTRIC	Residential	49018970	02-02150	713 E PALMETTO ST
ELECTRIC	Residential	49018971	02-02665	614 E OAK ST
ELECTRIC	Residential	49018972	08-10900	400 S 8TH AVE
ELECTRIC	Residential	49018973	08-10708	506 S 8TH AVE
ELECTRIC	Residential	49018975	08-11400	220 S 8TH AVE
ELECTRIC	Residential	49018978	11-10700	1006 N FL AVE
ELECTRIC	Residential	49018980	07-12901	210 S 7TH AVE
ELECTRIC	Residential	49018982	14-09330	1285 MAURICE SONNY CLAVEL
ELECTRIC	Residential	49018985	07-17003	1030 MAKOWSKI RD 20
ELECTRIC	Residential	49018987	04-02200	765 LA PLAYA DR
ELECTRIC	Residential	49018988	11-21902	1008 S 8TH AVE
ELECTRIC	Residential	49018994	02-05506	308 N TURNER AVE
ELECTRIC	Residential	49018995	01-11301	710 SAUNDERS ST
ELECTRIC	Residential	49018996	02-02400	618 E OAK ST
ELECTRIC	Residential	49019002	11-22870	1145 DOWNING CIR
ELECTRIC	Residential	49019003	14-04115	320 S 6TH AVE
ELECTRIC	Residential	49019004	02-11200	415 HEARD BRIDGE RD
ELECTRIC	Residential	49019008	02-02360	704 E PALMETTO ST
ELECTRIC	Residential	49019014	12-05900	502 W MAIN ST
ELECTRIC	Residential	49019015	06-09640	504 IL AVE
ELECTRIC	Residential	49019023	13-09021	208 N FL AVE
ELECTRIC	Residential	49019026	12-05705	402 W MAIN ST
ELECTRIC	Residential	49019028	05-08080	520 W MAIN ST 16
ELECTRIC	Residential	49019029	05-08110	520 W MAIN ST 9
ELECTRIC	Residential	49019030	05-08070	520 W MAIN ST 12
ELECTRIC	Residential	49019031	05-08100	520 W MAIN ST 17
ELECTRIC	Residential	49019032	09-07700	804 KOHALA DR

ELECTRIC	Residential	49019036	13-07500	201 N 6TH AVE
ELECTRIC	Residential	49019039	12-07000	303 W MAIN ST STE 1
ELECTRIC	Residential	49019040	05-12800	107 N FL AVE
ELECTRIC	Residential	49019041	04-02135	738 LA PLAYA DR
ELECTRIC	Residential	49019042	06-01521	915 W TN ST
ELECTRIC	Residential	49019043	01-08704	708 E GREEN ST
ELECTRIC	Residential	49019044	13-00631	213 E ORANGE ST
ELECTRIC	Residential	49019045	08-06200	808 S 9TH AVE
ELECTRIC	Residential	49019047	10-07674	745 ALTMAN RD
ELECTRIC	Residential	49019048	10-03015	517 HANCHEY RD
ELECTRIC	Residential	49019049	02-09202	310 HEARD BRIDGE RD
ELECTRIC	Residential	49019051	09-01943	516 S 11TH AVE
ELECTRIC	Residential	49019057	09-07500	811 HONOLULU DR
ELECTRIC	Residential	49019059	09-00035	507 CONSTITUTION DR
ELECTRIC	Residential	49019060	06-09700	530 IL AVE
ELECTRIC	Residential	49019061	04-00805	700 E TOWNSEND ST 17
ELECTRIC	Residential	49019063	06-08326	117 N PA AVE
ELECTRIC	Residential	49019064	01-08400	701 E GREEN ST
ELECTRIC	Residential	49019066	06-09500	814 W LA ST
ELECTRIC	Residential	49019067	14-08821	330 HANCHEY RD
ELECTRIC	Residential	49019070	09-01700	501 S 11TH AVE
ELECTRIC	Residential	49019073	09-02300	502 S 11TH AVE
ELECTRIC	Residential	49019074	09-00040	428 S 10TH AVE
ELECTRIC	Residential	49019075	09-00030	501 CONSTITUTION DR
ELECTRIC	Residential	49019077	09-01600	427 S 11TH AVE
ELECTRIC	Residential	49019079	09-01403	417 S 11TH AVE
ELECTRIC	Residential	49019082	09-00090	414 S 10TH AVE
ELECTRIC	Residential	49019089	09-02500	424 S 11TH AVE
ELECTRIC	Residential	49019091	12-06010	521 W MAIN ST
ELECTRIC	Residential	49019095	02-09810	408 HEARD BRIDGE RD
ELECTRIC	Residential	49019099	09-00140	314 S 10TH AVE
ELECTRIC	Residential	49019102	04-00295	373 RIVERCHASE CIR
ELECTRIC	Residential	49019104	04-00285	377 RIVERCHASE CIR
ELECTRIC	Residential	49019106	04-00300	371 RIVERCHASE CIR
ELECTRIC	Residential	49019107	04-00290	375 RIVERCHASE CIR
ELECTRIC	Residential	49019110	09-00500	513 W BAY ST
ELECTRIC	Residential	49019111	01-08900	620 E GREEN ST
ELECTRIC	Residential	49019112	09-00902	514 W HIGH ST
ELECTRIC	Residential	49019113	11-23060	1118 DOWNING CIR
ELECTRIC	Residential	49019114	01-16400	122 S 2ND AVE
ELECTRIC	Residential	49019115	13-05975	915 N 7TH AVE
ELECTRIC	Residential	49019117	11-23100	1102 DOWNING CIR
ELECTRIC	Residential	49019119	10-03670	1232 STENSTROM RD
ELECTRIC	Residential	49019121	13-01495	1217 E MAIN ST
ELECTRIC	Residential	49019122	09-06250	810 S FL AVE
ELECTRIC	Residential	49382030	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	49382911	13-00930	175 GRIFFIN RD

ELECTRIC	Residential	49382913	13-06802	409 N 6TH AVE
ELECTRIC	Residential	49382914	14-08570	HANCHEY RD BUS GARAG
ELECTRIC	Residential	49382915	14-01550	541 S 6TH AVE
ELECTRIC	Residential	49382917	12-12090	17 E MAIN ST & HWY S
ELECTRIC	Commercial	49382918	13-07800	207 N 7TH AVE
ELECTRIC	Residential	49382919	13-08130	301 N 7TH AVE
ELECTRIC	Residential	49382924	12-06914	105 S 9TH AVE
ELECTRIC	Residential	49382925	14-03490	802 S 6TH AVE
ELECTRIC	Residential	49382926	13-10615	213 N FL AVE
ELECTRIC	Residential	49382928	14-08116	1007 STENSTROM RD
ELECTRIC	Residential	49603700	10-07056	1009 BRIARWOOD DR
ELECTRIC	Residential	49603701	10-04800	1435 LISA DR
ELECTRIC	Residential	49603702	13-09601	410 W TOWNSEND ST
ELECTRIC	Residential	49603703	07-06419	132 W GRAPEFRUIT ST
ELECTRIC	Residential	49603704	12-00260	116 N 4TH AVE
ELECTRIC	Residential	49603706	10-03392	1260 KNOLLWOOD CIR
ELECTRIC	Residential	49603711	12-08005	209 W MAIN ST HERITAGE
ELECTRIC	Residential	49603716	02-07220	311 N SHELTON AVE
ELECTRIC	Residential	49603717	07-05310	405 S 7TH AVE
ELECTRIC	Residential	49603722	02-01075	504 E PALMETTO ST
ELECTRIC	Residential	49603723	14-04065	408 S 6TH AVE
ELECTRIC	Residential	49603725	11-14000	206 N OH AVE
ELECTRIC	Residential	49603726	08-13001	613 S 9TH AVE
ELECTRIC	Residential	49603727	05-03220	902 N FL AVE
ELECTRIC	Residential	49603732	12-05200	226 W MAIN ST
ELECTRIC	Residential	49603733	14-03530	700 S 6TH AVE
ELECTRIC	Residential	49603734	14-03510	706 S 6TH AVE
ELECTRIC	Residential	49603739	04-01235	827 E OAK ST 104
ELECTRIC	Residential	49603740	04-01234	827 E OAK ST 101
ELECTRIC	Residential	49603741	04-01232	827 E OAK ST 103
ELECTRIC	Residential	49603742	04-01050	322 N 4TH AVE
ELECTRIC	Residential	49603744	04-01100	314 N 4TH AVE
ELECTRIC	Residential	49603745	04-01025	328 N 4TH AVE
ELECTRIC	Residential	49603746	10-07458	397 HIDDEN CREEK CIR
ELECTRIC	Residential	49603750	11-21530	1007 S 9TH AVE 3
ELECTRIC	Residential	49603757	09-01807	513 S 11TH AVE
ELECTRIC	Residential	49603759	11-01050	404 S WI AVE
ELECTRIC	Residential	49603762	10-03252	1059 MAGNOLIA LN
ELECTRIC	Residential	49603763	12-14891	CARLTON ST&7TH AVE WAU
ELECTRIC	Residential	49603764	09-00105	507 HIGH ST
ELECTRIC	Residential	49603766	07-05800	701 S 7TH AVE
ELECTRIC	Residential	49603769	10-07600	431 ALTMAN RD
ELECTRIC	Residential	49603775	11-10890	1012 N FL AVE
ELECTRIC	Residential	49603776	09-08525	905 HAWAIIAN DR
ELECTRIC	Residential	49603783	07-16908	1030 MAKOWSKI RD 19
ELECTRIC	Residential	49603787	11-13854	257 GEORGETOWN LOOP
ELECTRIC	Residential	49603789	09-00250	513 W ORANGE ST

ELECTRIC	Residential	49603793	10-03241	1047 MAGNOLIA LN
ELECTRIC	Residential	49603796	14-08800	326 HANCHEY RD
ELECTRIC	Residential	49603797	14-09341	NEW T HANGERS
ELECTRIC	Residential	49603800	10-05900	1304 W MAIN ST
ELECTRIC	Residential	49603802	07-10003	708 SEMINOLE ST
ELECTRIC	Residential	49603804	11-02185	331 MARTIN L KING JR AVE
ELECTRIC	Residential	49603807	10-06250	1306 CITRUS ST
ELECTRIC	Residential	49603809	05-06200	410 N 10TH AVE
ELECTRIC	Residential	49603816	13-00860	617 E BAY ST WAUCHULA F
ELECTRIC	Commercial	49603818	06-01519	830 W AL ST
ELECTRIC	Residential	49603826	10-07432	256 HIDDEN CREEK CIR
ELECTRIC	Residential	49603827	11-02050	705 MARTIN L KING JR AVE
ELECTRIC	Residential	49603829	11-10510	1010 N 8TH AVE
ELECTRIC	Residential	49603830	04-00965	700 E TOWNSEND ST 48
ELECTRIC	Residential	49603839	04-00970	700 E TOWNSEND ST 49
ELECTRIC	Residential	49603841	10-07464	385 HIDDEN CREEK CIR
ELECTRIC	Residential	49603842	09-09357	702 OAK FOREST DR
ELECTRIC	Residential	49603869	02-00375	105 N 3RD AVE A201
ELECTRIC	Residential	49603871	07-14003	135 CARLTON ST 49
ELECTRIC	Residential	49603872	02-01700	204 N RUST AVE
ELECTRIC	Residential	49603873	07-08650	201 W STRICKLAND ST
ELECTRIC	Residential	49603874	08-12000	313 W ORANGE ST
ELECTRIC	Residential	49603875	05-05900	404 W LA ST
ELECTRIC	Residential	49603876	04-00105	369 EASON DR
ELECTRIC	Residential	49603877	10-03285	1097 MAGNOLIA LN
ELECTRIC	Residential	49603885	07-15507	125 CARLTON ST 36
ELECTRIC	Residential	49603887	02-05614	510A E OAK ST
ELECTRIC	Residential	49603888	05-07702	205 N 10TH AVE (HOUSE) HOUSE
ELECTRIC	Residential	49603889	11-21708	1018 S 9TH AVE 5
ELECTRIC	Commercial	49825957	13-08425	320 N 9TH AVE
ELECTRIC	Residential	49825960	12-14882	465 CARLTON ST
ELECTRIC	Residential	49825963	12-03208	N 6TH AND MAIN ST
ELECTRIC	Residential	49825964	13-04402	618 N 6TH AVE
ELECTRIC	Residential	49825965	14-08701	1301 W MAIN ST
ELECTRIC	Residential	49825967	13-00875	713 E BAY ST
ELECTRIC	Residential	49825969	14-02802	903 S 6TH AVE
ELECTRIC	Commercial	49825970	13-09600	810 W TN ST
ELECTRIC	Commercial	49825972	13-10300	1720 W MAIN ST
ELECTRIC	Commercial	49825973	12-07211	208 W ORANGE ST
ELECTRIC	Residential	49825975	14-08630	HANCHEY RD PUBLIC WO
ELECTRIC	Commercial	49825979	14-08440	119 S FL AVE
ELECTRIC	Residential	49908159	03-14100	211 W OAK ST 5
ELECTRIC	Residential	49970385	05-09210	414 W TOWNSEND ST
ELECTRIC	Residential	49980050	05-03310	805 N 9TH AVE
ELECTRIC	Residential	49980051	02-06570	318 N TURNER AVE
ELECTRIC	Residential	49980053	10-06325	210 ORANGE AVE
ELECTRIC	Residential	49980054	10-03312	1062 ASPEN LANE

ELECTRIC	Residential	49980055	08-04000	820 S 8TH AVE A
ELECTRIC	Residential	49980058	08-01601	321 S 8TH AVE
ELECTRIC	Residential	49980059	07-08902	208 W STRICKLAND ST
ELECTRIC	Residential	49980062	10-03667	1220 STENSTROM RD
ELECTRIC	Residential	49980064	09-00170	214 S 10TH AVE
ELECTRIC	Residential	49980065	04-00310	361 RIVERCHASE CIR
ELECTRIC	Residential	49980066	05-03330	801 N 9TH AVE
ELECTRIC	Residential	49980067	05-04402	417 N 9TH AVE
ELECTRIC	Residential	49980069	13-08660	502 W PALMETTO ST
ELECTRIC	Commercial	49980076	06-01522	608 IL AVE
ELECTRIC	Residential	49980081	07-08502	808 S 7TH AVE
ELECTRIC	Residential	49980082	10-07489	289 HIDDEN CREEK CIR
ELECTRIC	Commercial	49980084	13-00620	213A-B E ORANGE ST
ELECTRIC	Residential	49980085	07-06630	1051 DOWNING CIR 102
ELECTRIC	Residential	49980090	09-09319	709 OAK FOREST DR
ELECTRIC	Residential	49980092	13-07201	305 N 6TH AVE
ELECTRIC	Residential	49980095	11-21644	1025 S 9TH AVE 12
ELECTRIC	Residential	49980099	02-09403	314 HEARD BRIDGE RD APT
ELECTRIC	Residential	49980102	14-07355	1006 S 9TH AVE
ELECTRIC	Residential	49980103	04-00120	711 E OAK ST
ELECTRIC	Residential	49980107	07-06100	709 S 7TH AVE
ELECTRIC	Residential	49980109	09-03400	401 S FL AVE
ELECTRIC	Residential	49980113	07-16504	1020 MAKOWSKI RD 26
ELECTRIC	Residential	49980115	07-10000	710 SEMINOLE ST
ELECTRIC	Residential	49980117	11-00511	306 MARTIN L KING JR AVE
ELECTRIC	Residential	49980121	11-13850	245 GEORGETOWN LOOP
ELECTRIC	Residential	49980122	09-00180	208 S 10TH AVE
ELECTRIC	Residential	49980123	05-01702	312 W GA ST
ELECTRIC	Residential	49980128	07-11500	214 W SHORT ST
ELECTRIC	Residential	49980129	02-07140	321 N SHELTON AVE
ELECTRIC	Residential	49980131	11-13895	194 GEORGETOWN LOOP
ELECTRIC	Residential	49980133	08-12900	609 S 9TH AVE
ELECTRIC	Residential	49980136	14-09509	END VANDOLAH RD(TARH
ELECTRIC	Residential	49980143	07-06619	1051 DOWNING CIR 101
ELECTRIC	Residential	49980150	11-22790	1156 DOWNING CIR
ELECTRIC	Residential	49980153	10-07075	1035 BRIARWOOD DRIVE
ELECTRIC	Residential	49980157	10-12365	3007 HIGHTOWER LANE
ELECTRIC	Residential	49980161	06-00800	612 W LA ST
ELECTRIC	Commercial	49980163	14-08215	400 S FL AVE
ELECTRIC	Residential	49980164	03-09400	806 N 8TH AVE
ELECTRIC	Residential	49980171	07-16104	1020 MAKOWSKI RD 30
ELECTRIC	Residential	49980174	06-07357	317 N PA AVE
ELECTRIC	Residential	49980175	04-00115	709 E OAK ST
ELECTRIC	Residential	49980188	04-00730	700 E TOWNSEND ST 2
ELECTRIC	Residential	49980195	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	49980196	11-22900	1149 DOWNING CIR
ELECTRIC	Residential	49980199	01-09490	625 E BAY ST

ELECTRIC	Residential	49980200	06-11602	312 N OH AVE
ELECTRIC	Residential	49980201	11-10635	424 BELL ST
ELECTRIC	Residential	49980205	11-21589	1017 S 9TH AVE 8
ELECTRIC	Residential	49980207	05-02800	308 W SOUTHERLAND ST
ELECTRIC	Residential	49980209	05-01325	309 W GA ST
ELECTRIC	Residential	49980211	11-10534	1007 N 8TH AVE
ELECTRIC	Residential	49980214	04-00245	394 RIVERCHASE CIR
ELECTRIC	Residential	49980216	14-08821	330 HANCHEY RD
ELECTRIC	Residential	49980221	13-09000	200 N FL AVE
ELECTRIC	Residential	49980226	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	49980228	12-10403	111 S 7TH AVE 102
ELECTRIC	Residential	49980229	07-11000	415 S 8TH AVE
ELECTRIC	Residential	49980235	04-00935	700 E TOWNSEND ST 42
ELECTRIC	Residential	49980236	04-00255	368 RIVERCHASE CIR
ELECTRIC	Residential	49980240	11-13810	185 GEORGETOWN LOOP
ELECTRIC	Residential	49980242	06-07212	810 W LA ST
ELECTRIC	Residential	49980244	08-00400	205 S 8TH AVE
ELECTRIC	Residential	49980250	02-07110	324 N SHELTON AVE
ELECTRIC	Residential	49980251	04-00825	700 E TOWNSEND ST 21
ELECTRIC	Residential	49980252	12-05710	414 W MAIN ST
ELECTRIC	Residential	49980254	11-23140	1086 DOWNING CIR
ELECTRIC	Residential	49980259	10-05352	374 CIRCLE DR
ELECTRIC	Residential	49980261	05-10280	605 W KY ST
ELECTRIC	Residential	49980264	04-00005	827 E OAK ST
ELECTRIC	Residential	49980266	14-03030	HARDEE CENTRE
ELECTRIC	Residential	49980272	02-04001	301 N DIANA AVE
ELECTRIC	Residential	49980276	09-07100	820 HONOLULU DR
ELECTRIC	Residential	49980280	10-07443	227 HIDDEN CREEK CIR
ELECTRIC	Residential	49980298	04-00165	305 EASON DR
ELECTRIC	Residential	49980306	09-07800	711 HONOLULU DR
ELECTRIC	Residential	49980310	10-03605	1264 PINE DR
ELECTRIC	Residential	49980311	06-11900	227 IL AVE
ELECTRIC	Residential	49980312	11-22731	1180 DOWNING CIR
ELECTRIC	Residential	49980313	11-22741	1176 DOWNING CIR
ELECTRIC	Residential	49980314	08-04636	308 PEACE DR
ELECTRIC	Commercial	49980315	14-08262	200 S FL AVE
ELECTRIC	Residential	49980316	05-10411	701 N FL AVE
ELECTRIC	Residential	49980320	14-08435	704 W MAIN ST WAUCHULA F
ELECTRIC	Residential	49980323	05-01104	420 N 9TH AVE
ELECTRIC	Residential	49980331	13-09700	801 POLK RD PUMP
ELECTRIC	Residential	49980335	07-14109	135 CARLTON ST 47
ELECTRIC	Residential	49980340	09-05655	985 S FL AVE
ELECTRIC	Residential	49980341	11-10647	1006 OSCEOLA LN
ELECTRIC	Residential	49980347	08-03400	907 S 8TH AVE
ELECTRIC	Residential	49980351	04-02015	714 LA PLAYA DR
ELECTRIC	Residential	49980352	02-04400	319 N DIANA AVE
ELECTRIC	Residential	49980359	08-01103	303 S 8TH AVE

ELECTRIC	Residential	49980368	06-13300	117 N OH AVE
ELECTRIC	Residential	49980370	01-13187	608A E BAY ST
ELECTRIC	Residential	49980372	02-02195	711 E PALMETTO ST
ELECTRIC	Residential	49980374	02-07150	319 N SHELTON AVE
ELECTRIC	Residential	49980375	11-23150	1082 DOWNING CIR
ELECTRIC	Residential	49980387	11-10640	426 BELL ST
ELECTRIC	Residential	49980389	02-07295	403 E PALMETTO ST
ELECTRIC	Residential	49980390	14-04095	107 W SUMMIT ST
ELECTRIC	Residential	49980392	14-03310	1000 S 6TH AVE
ELECTRIC	Residential	49980394	02-11805	315 HEARD BRIDGE RD
ELECTRIC	Residential	49980395	02-11550	325 HEARD BRIDGE RD
ELECTRIC	Residential	49980397	05-05284	120B N 10TH AVE
ELECTRIC	Residential	49980398	01-11810	619 E SUMMIT ST
ELECTRIC	Residential	49980400	01-16150	402 E ORANGE ST
ELECTRIC	Residential	49980402	05-05402	218 N 10TH AVE
ELECTRIC	Residential	49980406	03-13834	202 W MAIN 205
ELECTRIC	Residential	49980408	07-17305	1030 MAKOWSKI RD 23
ELECTRIC	Residential	49980415	07-09100	716 S 7TH AVE
ELECTRIC	Residential	49980419	14-08650	HANCHEY RD SIGN SHOP
ELECTRIC	Residential	49980421	06-01530	916 W TN ST
ELECTRIC	Residential	49980427	09-01500	421 S 11TH AVE
ELECTRIC	Residential	49980432	09-02615	410 S 11TH AVE
ELECTRIC	Residential	49980725	11-22830	1140 DOWNING CIR
ELECTRIC	Residential	50402173	07-11700	322 S 7TH AVE
ELECTRIC	Residential	50402174	08-07800	902 S 10TH AVE
ELECTRIC	Residential	50402175	07-09800	718 SEMINOLE ST
ELECTRIC	Residential	50402176	09-05300	516 W EDDY ST
ELECTRIC	Residential	50402177	02-00100	121 N 4TH AVE
ELECTRIC	Residential	50402178	11-10540	1005 N 8TH AVE
ELECTRIC	Residential	50402179	11-13433	506 N OH AVE
ELECTRIC	Residential	50402183	06-07900	211 N PA AVE
ELECTRIC	Residential	50402184	06-03602	220 N PA AVE
ELECTRIC	Residential	50402187	11-23080	1110 DOWNING CIR
ELECTRIC	Residential	50402189	06-14100	609 W MAIN ST
ELECTRIC	Residential	50402191	06-12600	117 IL AVE
ELECTRIC	Residential	50402192	06-14300	110 S FL AVE
ELECTRIC	Residential	50402193	06-12100	217 IL AVE
ELECTRIC	Residential	50402194	06-02100	215 N IN AVE
ELECTRIC	Residential	50402195	06-01760	309 N IN AVE
ELECTRIC	Residential	50402196	06-07002	505 N PA AVE
ELECTRIC	Residential	50402197	05-05600	310 N 10TH AVE
ELECTRIC	Residential	50402198	01-15702	401 E BAY ST
ELECTRIC	Residential	50402199	02-04701	335 N DIANA AVE
ELECTRIC	Residential	50402200	01-11400	401 S WALTON AVE
ELECTRIC	Residential	50402201	09-04601	701 S FL AVE
ELECTRIC	Residential	50402202	08-02900	806 SEMINOLE ST
ELECTRIC	Residential	50402205	08-07000	811 S 10TH AVE

ELECTRIC	Residential	50402206	08-07201	817 S 10TH AVE
ELECTRIC	Residential	50402207	09-09309	701 OAK FOREST DR
ELECTRIC	Residential	50402208	08-05200	813 S 9TH AVE
ELECTRIC	Residential	50402211	05-10700	513 N FL AVE
ELECTRIC	Residential	50402212	05-03280	406 POLK RD
ELECTRIC	Residential	50402213	13-06210	735 N 6TH AVE
ELECTRIC	Residential	50402214	03-04200	807 N 7TH AVE
ELECTRIC	Residential	50402217	10-03060	1008 STENSTROM RD
ELECTRIC	Residential	50402218	10-00100	1006 W MAIN ST
ELECTRIC	Residential	50402219	09-09331	713 OAK FOREST DR
ELECTRIC	Residential	50402241	05-03210	906 N FL AVE
ELECTRIC	Residential	53341166	06-07800	217 N PA AVE
ELECTRIC	Residential	55796067	10-06500	1441 CITRUS ST
ELECTRIC	Residential	55796068	10-06700	125 ORANGE AVE
ELECTRIC	Residential	55796069	10-06210	1311 CITRUS ST
ELECTRIC	Residential	55796071	07-20002	635 S 5TH AVE A103
ELECTRIC	Residential	55796073	01-14500	511 E ORANGE ST
ELECTRIC	Residential	55796078	11-22726	1182 DOWNING CIR
ELECTRIC	Residential	55796082	10-03050	987 STENSTROM RD
ELECTRIC	Residential	55796084	10-06449	325 ORANGE AVE
ELECTRIC	Residential	55796085	10-07100	1030 BRIARWOOD DR #21
ELECTRIC	Residential	55796086	07-06750	309 CARLTON ST 4
ELECTRIC	Residential	55796088	10-03070	1050 STENSTROM RD
ELECTRIC	Residential	55796095	10-03707	855 PIERCE RD
ELECTRIC	Residential	55796096	10-03709	863 PIERCE RD
ELECTRIC	Residential	55796097	10-07043	1025 BRIARWOOD DR
ELECTRIC	Residential	55796098	10-03560	1227 ASPEN LANE
ELECTRIC	Residential	55796102	10-03048	965 STENSTROM RD
ELECTRIC	Residential	55796104	10-07050	1007 BRIARWOOD ESTATES
ELECTRIC	Residential	55796107	10-03751	665 HANCHEY RD
ELECTRIC	Residential	55796108	07-06766	309 CARLTON ST 6
ELECTRIC	Residential	55796109	10-07090	1026 BRIARWOOD DR
ELECTRIC	Residential	55796110	10-03540	1247 ASPEN LANE
ELECTRIC	Residential	55796115	10-07070	1031 BRIARWOOD DR
ELECTRIC	Residential	55796116	10-07080	1027 BRIARWOOD DR
ELECTRIC	Residential	55796117	10-06460	225 ORANGE AV-JOE DAVIS
ELECTRIC	Residential	55796118	07-06756	309 CARLTON ST 5
ELECTRIC	Residential	55796121	10-02600	459 HANCHEY RD
ELECTRIC	Residential	55796122	10-02700	478 HANCHEY RD
ELECTRIC	Residential	55796123	10-06900	1410 W MAIN ST
ELECTRIC	Residential	55796124	10-03130	1035 KNOLLWOOD CIR
ELECTRIC	Residential	55796125	10-03707	855 PIERCE RD
ELECTRIC	Residential	55796126	10-07039	1015 BRIARWOOD ESTATES
ELECTRIC	Residential	55796131	11-02125	591 MARTIN L KING JR AVE
ELECTRIC	Residential	55796139	10-00900	149 HANCHEY RD
ELECTRIC	Residential	55796141	10-01100	156 HANCHEY RD
ELECTRIC	Residential	55796143	12-04803	210 W MAIN ST

ELECTRIC	Residential	55796144	12-04900	212 W MAIN ST
ELECTRIC	Residential	55796147	07-06740	309 CARLTON ST 3
ELECTRIC	Residential	55796148	10-06490	1440 CITRUS ST
ELECTRIC	Residential	55796151	10-05360	1418 LISA DR
ELECTRIC	Residential	55796152	10-07040	1003 BRIARWOOD DRIVE
ELECTRIC	Residential	55796153	10-03755	653 HANCHEY RD
ELECTRIC	Residential	55796154	10-05357	333 CIRCLE DR
ELECTRIC	Residential	55796155	12-05103	222 W MAIN ST
ELECTRIC	Residential	55796159	10-05357	333 CIRCLE DR
ELECTRIC	Residential	55796160	10-03709	863 PIERCE RD
ELECTRIC	Residential	55796162	10-03761	639 HANCHEY RD
ELECTRIC	Residential	55796163	10-07211	1009 W LA
ELECTRIC	Residential	55796164	10-03662	1010 KNOLLWOOD CIR
ELECTRIC	Residential	55796170	10-01001	157 HANCHEY RD (WK SHOP)
ELECTRIC	Residential	55796173	10-07110	1013 W LA ST
ELECTRIC	Residential	55796175	10-07041	1006 BRIARWOOD DR
ELECTRIC	Residential	55796176	10-03122	1025 KNOLLWOOD CIR
ELECTRIC	Residential	55796177	10-03709	863 PIERCE RD
ELECTRIC	Residential	55796178	07-10550	504 S 7TH AVE
ELECTRIC	Residential	55796197	03-08240	207 GOOLSBY ST
ELECTRIC	Residential	55796221	05-03146	1009 N 9TH AVE
ELECTRIC	Residential	55796225	10-03771	623 HANCHEY RD
ELECTRIC	Residential	55796226	07-06644	1051 DOWNING CIR 104
ELECTRIC	Residential	55796239	04-00205	352 RIVERCHASE CIR
ELECTRIC	Residential	55796245	10-03592	1224 PINE DR
ELECTRIC	Commercial	55796246	14-08201	400 S FL AVE
ELECTRIC	Residential	55796252	07-20003	635 S 5TH AVE A104
ELECTRIC	Residential	55796254	07-09400	702 S 7TH AVE
ELECTRIC	Residential	56061310	08-07604	912 S 10TH AVE
ELECTRIC	Residential	56061327	05-04300	421 N 9TH AVE
ELECTRIC	Residential	56459537	08-03618	425 W EDDY ST
ELECTRIC	Residential	56459540	13-05500	1017 HWY 17 N
ELECTRIC	Residential	56459543	07-19506	667 S 5TH AVE
ELECTRIC	Residential	56459550	10-10300	4026 W MAIN ST
ELECTRIC	Residential	56459556	05-12501	113 N FL AVE
ELECTRIC	Residential	56459580	10-03110	1015 KNOLLWOOD CIR
ELECTRIC	Residential	56459582	08-04648	306 PEACE DR
ELECTRIC	Residential	56459583	14-02390	705 S 6TH AVE
ELECTRIC	Residential	56459584	10-06200	126 ORANGE AVE
ELECTRIC	Residential	56459586	05-05253	114 N 10TH AVE
ELECTRIC	Residential	56459587	06-12500	129 IL AVE
ELECTRIC	Residential	56459588	11-13862	289 GEORGETOWN LOOP
ELECTRIC	Residential	56459589	10-02221	384 HANCHEY RD
ELECTRIC	Residential	56459597	02-02660	610 E OAK ST
ELECTRIC	Residential	56459598	01-15900	210 S 2ND AVE
ELECTRIC	Residential	56459600	04-00940	700 E TOWNSEND ST 43
ELECTRIC	Residential	56459614	09-04700	801 S FL AVE

ELECTRIC	Residential	56459615	07-07011	910 SEMINOLE ST
ELECTRIC	Residential	56459623	10-10925	4162 W MAIN ST
ELECTRIC	Residential	56459625	04-00745	700 E TOWNSEND ST 5
ELECTRIC	Residential	56459626	04-00755	700 E TOWNSEND ST 7
ELECTRIC	Residential	56459627	10-04400	1389 LISA DR
ELECTRIC	Residential	56459628	11-04306	207 RIVERSIDE DR
ELECTRIC	Residential	56459633	08-13350	324 S 9TH AVE
ELECTRIC	Residential	56459634	08-01000	209 W BAY ST
ELECTRIC	Residential	56459636	08-08700	414 PEACE DR
ELECTRIC	Residential	56459637	04-00975	700 E TOWNSEND ST 50
ELECTRIC	Residential	56459640	02-09300	314 HEARD BRIDGE RD
ELECTRIC	Residential	56459645	04-00185	344 RIVERCHASE CIR
ELECTRIC	Residential	56459646	08-03610	415 W EDDY ST
ELECTRIC	Residential	56459647	06-13100	116 N OH AVE
ELECTRIC	Residential	56459649	10-07463	378 HIDDEN CREEK
ELECTRIC	Residential	56459656	11-13849	235 GEORGETOWN LOOP
ELECTRIC	Residential	56459658	10-03230	1037 MAGNOLIA LN
ELECTRIC	Commercial	56459659	14-08201	400 S FL AVE
ELECTRIC	Residential	56459663	04-00790	700 E TOWNSEND ST 14
ELECTRIC	Residential	56459669	10-03660	1225 STENSTROM RD
ELECTRIC	Residential	56459671	05-08700	614 N FL AVE
ELECTRIC	Residential	56459686	11-10615	416 BELL ST
ELECTRIC	Commercial	56459688	13-08600	311 GOOLSBY ST
ELECTRIC	Residential	56459689	07-15605	125 CARLTON ST 33
ELECTRIC	Residential	56459690	10-03611	1269 PINE CT
ELECTRIC	Residential	56459691	09-09400	422 S FL AVE
ELECTRIC	Residential	56459693	11-10580	308 BELL ST
ELECTRIC	Residential	56459698	12-10416	111 S 7TH AVE 103
ELECTRIC	Residential	56459699	05-10241	801 N FL AVE
ELECTRIC	Residential	56459701	07-10011	702 SEMINOLE ST
ELECTRIC	Residential	56459702	05-00600	312 N 9TH AVE
ELECTRIC	Residential	56459712	09-03700	417 S FL AVE
ELECTRIC	Residential	56459713	08-08900	605 S 10TH AVE
ELECTRIC	Residential	56459716	04-02090	727 LA PLAYA DR
ELECTRIC	Residential	56459719	11-22000	1010 S 8TH AVE
ELECTRIC	Residential	56459721	05-02504	612 N 9TH AVE
ELECTRIC	Residential	56459722	14-08695	107 HANCHEY RD
ELECTRIC	Residential	56459723	08-07900	828 S 10TH AVE
ELECTRIC	Residential	56459724	09-09205	606 S FL AVE
ELECTRIC	Residential	56536356	12-07206	215 W ORANGE ST
ELECTRIC	Residential	56536359	13-00500	214 E ORANGE ST
ELECTRIC	Residential	56536369	14-01010	323 S 6TH AVE
ELECTRIC	Residential	56536372	14-09260	770 RECREATION COMPLEX
ELECTRIC	Residential	56536376	14-01210	401 1/ S 6TH AVE
ELECTRIC	Residential	56740401	11-08710	208 PARK DR
ELECTRIC	Residential	56740402	11-09979	274 GARDEN DR
ELECTRIC	Residential	56740412	11-07313	302 RIVERSIDE DR

ELECTRIC	Residential	56740413	11-09929	314 GARDEN DR
ELECTRIC	Residential	56740414	04-02220	773 LA PLAYA DR
ELECTRIC	Residential	56740415	11-09965	306 GARDEN DR
ELECTRIC	Residential	56740416	11-09875	301 GARDEN DR
ELECTRIC	Residential	56740417	11-09880	303 GARDEN DR
ELECTRIC	Residential	56740418	11-09910	305 GARDEN DR
ELECTRIC	Residential	56740419	11-09920	307 GARDEN DR
ELECTRIC	Residential	56740420	14-04068	406 S 6TH AVE
ELECTRIC	Residential	56740422	11-07400	300 RIVERSIDE DR
ELECTRIC	Residential	56740423	11-07550	224 RIVERSIDE DR
ELECTRIC	Residential	56740472	11-07222	312 RIVERSIDE DR
ELECTRIC	Residential	56740473	11-07230	310 RIVERSIDE DR
ELECTRIC	Residential	56740474	11-07241	308 RIVERSIDE DR
ELECTRIC	Residential	56740475	11-07250	306 RIVERSIDE DR
ELECTRIC	Residential	56740476	11-06605	331 RIVERSIDE DR
ELECTRIC	Residential	56740477	11-06700	335 RIVERSIDE DR
ELECTRIC	Residential	56740478	11-06800	325 PARK DR
ELECTRIC	Residential	56740479	11-06900	322 RIVERSIDE DR
ELECTRIC	Residential	56740480	11-09024	215 PARK DR
ELECTRIC	Residential	56740482	11-09112	219 PARK DR
ELECTRIC	Residential	56740483	11-09300	223 PARK DR
ELECTRIC	Residential	56740488	11-09310	301 PARK DR
ELECTRIC	Residential	56740489	11-09401	305 PARK DR
ELECTRIC	Residential	56740490	11-09501	307 PARK DR
ELECTRIC	Residential	56740491	11-09575	311 PARK DR
ELECTRIC	Residential	56740493	11-09860	304 PARK DR
ELECTRIC	Residential	56740495	11-09870	300 PARK DR
ELECTRIC	Residential	56740498	07-20024	635 S 5TH AVE B201
ELECTRIC	Residential	56740500	11-10000	218 PARK DR
ELECTRIC	Residential	56740501	11-10010	216 PARK DR
ELECTRIC	Residential	56740502	11-10020	214 PARK DR
ELECTRIC	Residential	56740508	11-09980	224 PARK DR
ELECTRIC	Residential	56740509	11-09985	222 PARK DR
ELECTRIC	Residential	56740510	11-09990	220 PARK DR
ELECTRIC	Residential	56740514	11-08300	208 RIVERSIDE DR
ELECTRIC	Residential	56740515	11-08407	206 RIVERSIDE DR
ELECTRIC	Residential	56740516	11-09840	316 PARK DR
ELECTRIC	Residential	56740517	11-09843	314 PARK DR
ELECTRIC	Residential	56740518	11-09845	312 PARK DR
ELECTRIC	Residential	56740519	11-09850	308 PARK DR
ELECTRIC	Residential	56740520	11-09935	317 GARDEN DR
ELECTRIC	Residential	56740523	11-09955	325 GARDEN DR
ELECTRIC	Residential	56740526	11-05300	301 RIVERSIDE DR
ELECTRIC	Residential	56740527	11-05400	303 RIVERSIDE DR
ELECTRIC	Residential	56740532	11-09970	304 GARDEN DR
ELECTRIC	Residential	56740533	11-09975	302 GARDEN DR
ELECTRIC	Residential	56740534	11-09977	260 GARDEN DR

ELECTRIC	Residential	56740535	11-09700	242 GARDEN DR
ELECTRIC	Residential	56740536	11-09820	324 PARK DR
ELECTRIC	Residential	56740537	11-09825	322 PARK DR
ELECTRIC	Residential	56740539	11-09835	318 PARK DR
ELECTRIC	Residential	56740540	14-09260	770 RECREATION COMPLEX
ELECTRIC	Residential	56740541	11-04800	217 RIVERSIDE DR
ELECTRIC	Residential	56740542	06-07100	803 W GA ST
ELECTRIC	Residential	56740543	11-05000	221 RIVERSIDE DR
ELECTRIC	Residential	56740545	11-04500	211 RIVERSIDE DR
ELECTRIC	Residential	56740546	11-04600	213 RIVERSIDE DR
ELECTRIC	Residential	56740547	04-00305	363 RIVERCHASE CIR
ELECTRIC	Residential	56740548	11-09925	309 GARDEN DR
ELECTRIC	Residential	56740549	11-09926	311 GARDEN DR
ELECTRIC	Residential	56740550	11-09927	313 GARDEN DR
ELECTRIC	Residential	56740551	11-09930	315 GARDEN DR
ELECTRIC	Residential	56740555	02-05201	322 N TURNER AVE
ELECTRIC	Residential	56740556	11-07703	220 RIVERSIDE DR
ELECTRIC	Residential	56740558	11-07900	216 RIVERSIDE DR
ELECTRIC	Residential	56740564	11-08800	207 PARK DR
ELECTRIC	Residential	56740566	11-09000	211 PARK DR
ELECTRIC	Residential	56740567	11-09011	213 PARK DR
ELECTRIC	Residential	56740568	11-07002	320 RIVERSIDE DR
ELECTRIC	Residential	56740569	11-07100	318 RIVERSIDE DR
ELECTRIC	Residential	56740572	11-08500	204 RIVERSIDE DR
ELECTRIC	Residential	56740573	11-08600	115 PARK DR
ELECTRIC	Residential	56740574	11-08707	205 PARK DR
ELECTRIC	Residential	56740575	11-09800	319 PARK DR
ELECTRIC	Residential	56740576	11-06300	321 RIVERSIDE DR
ELECTRIC	Residential	56740578	11-06501	327 RIVERSIDE DR
ELECTRIC	Residential	56740579	11-06600	329 RIVERSIDE DR
ELECTRIC	Residential	56740580	11-05904	313 RIVERSIDE DR
ELECTRIC	Residential	56740581	11-06001	315 RIVERSIDE DR
ELECTRIC	Residential	56740583	11-06200	319 RIVERSIDE DR
ELECTRIC	Residential	56740588	11-05701	309 RIVERSIDE DR
ELECTRIC	Residential	56740590	11-05600	307 RIVERSIDE DR
ELECTRIC	Residential	56740591	11-09978	290 GARDEN DR
ELECTRIC	Residential	57551238	10-03280	1087 MAGNOLIA LN
ELECTRIC	Residential	57551239	13-06802	409 N 6TH AVE
ELECTRIC	Residential	57551241	09-09317	707 OAK FOREST DR
ELECTRIC	Residential	57551242	10-04210	1353 LISA DR
ELECTRIC	Residential	57551243	13-00859	908 MARTIN L KING JR AVE
ELECTRIC	Residential	57551244	14-09507	607 ALTON CARLTON RD
ELECTRIC	Commercial	57551248	04-02290	701 LA PLAYA DR
ELECTRIC	Commercial	57551258	13-10300	1720 W MAIN ST
ELECTRIC	Residential	57553734	10-07076	1032 BRIARWOOD DR
ELECTRIC	Commercial	57553735	12-14818	JAIL MAINTENANCE
ELECTRIC	Residential	57553746	12-00012	205 N 3RD AVE

ELECTRIC	Residential	57553766	12-10105	203 S 7TH AVE
ELECTRIC	Residential	57553767	13-09901	601 N FL AVE
ELECTRIC	Residential	57693340	05-07200	301 N 10TH AVE
ELECTRIC	Residential	57693347	08-12520	321 S 9TH AVE
ELECTRIC	Residential	57693349	04-00980	700 E TOWNSEND ST 51
ELECTRIC	Residential	57693350	14-04210	119 W BAY ST
ELECTRIC	Residential	57693351	04-00155	301 EASON DR
ELECTRIC	Residential	57693352	11-22770	1164 DOWNING CIR
ELECTRIC	Commercial	57693353	12-14880	533 CARLTON ST
ELECTRIC	Residential	57693355	10-10400	4070 W MAIN ST GARAG
ELECTRIC	Residential	57693356	07-09720	220 W STRICKLAND ST
ELECTRIC	Residential	57693367	14-06980	MAKOWSKI RD
ELECTRIC	Residential	57693380	14-06990	1020 MAKOWSKI RD
ELECTRIC	Residential	57693381	13-00900	725 E GREEN ST
ELECTRIC	Residential	57693382	13-01630	LIFT STA GARDEN DR #12
ELECTRIC	Residential	57693383	14-07450	417 CARLTON ST
ELECTRIC	Residential	57693385	14-06980	MAKOWSKI RD
ELECTRIC	Residential	57693386	05-05290	411 W PALMETTO ST
ELECTRIC	Residential	57693388	05-06897	305 N 10TH AVE
ELECTRIC	Residential	57693392	05-08060	520 W MAIN ST 10
ELECTRIC	Residential	57693393	14-03360	910 S 6TH AVE
ELECTRIC	Residential	57693394	14-03370	908 S 6TH AVE
ELECTRIC	Residential	57693397	05-07004	304 N FL AVE
ELECTRIC	Residential	57693400	13-06908	401 N 6TH AVE
ELECTRIC	Residential	57693401	14-03350	912 S 6TH AVE
ELECTRIC	Residential	57693403	05-08020	507 W PALMETTO ST
ELECTRIC	Residential	57693408	08-11840	313 W MAIN ST
ELECTRIC	Residential	57693410	05-05901	402 W LA ST
ELECTRIC	Residential	57693412	05-04699	311 N 9TH AVE
ELECTRIC	Residential	57693414	05-04600	315 N 9TH AVE
ELECTRIC	Residential	57693415	05-04800	309 N 9TH AVE
ELECTRIC	Residential	57693417	04-00235	398 RIVERCHASE CIR
ELECTRIC	Residential	57693419	08-11700	208 S 8TH AVE
ELECTRIC	Residential	57693425	07-10117	630 S 7TH AVE
ELECTRIC	Residential	57693426	05-06000	407 W LA ST
ELECTRIC	Residential	57693428	08-06900	809 S 10TH AVE
ELECTRIC	Residential	57693429	11-13845	219 GEORGETOWN LOOP
ELECTRIC	Residential	57693431	05-12703	111 N FL AVE
ELECTRIC	Residential	57693432	02-11500	401 HEARD BRIDGE RD
ELECTRIC	Residential	57693438	07-13001	208 S 7TH AVE
ELECTRIC	Residential	57693441	05-03260	905 N 9TH AVE
ELECTRIC	Residential	57693447	04-00880	700 E TOWNSEND ST 31
ELECTRIC	Residential	57693448	08-11820	306 COURT ST
ELECTRIC	Residential	57693449	03-05100	605 N 7TH AVE
ELECTRIC	Residential	57693450	02-07170	315 N SHELTON AVE
ELECTRIC	Residential	57693453	02-01500	801 E MAIN ST
ELECTRIC	Residential	57693454	08-09900	624 S 8TH AVE

ELECTRIC	Residential	57693460	10-07208	1005 W LA ST
ELECTRIC	Residential	57693484	11-09928	312 GARDEN DR
ELECTRIC	Residential	57693487	02-07330	408 E OAK ST
ELECTRIC	Residential	57693495	10-07204	1001 W LA ST
ELECTRIC	Residential	57693504	05-12602	109 N FL AVE
ELECTRIC	Residential	57693505	09-04003	509 S FL AVE
ELECTRIC	Residential	57693506	11-10030	212 PARK DR
ELECTRIC	Residential	57693516	06-01265	721 N PA AVE
ELECTRIC	Residential	57693518	03-08150	510 N 8TH AVE
ELECTRIC	Residential	57693519	07-13903	135 CARLTON ST 50
ELECTRIC	Residential	57693523	09-09226	706 CROSBY LN
ELECTRIC	Residential	57774660	10-07445	343 HIDDEN CREEK CIR
ELECTRIC	Residential	58061300	08-08600	509 PEACE DR
ELECTRIC	Residential	58061302	10-05702	1300 W MAIN ST
ELECTRIC	Residential	58061303	05-02710	714 N 9TH AVE
ELECTRIC	Residential	58061304	11-12000	637 POLK RD
ELECTRIC	Residential	58061305	11-10200	820 HEARD BRIDGE RD
ELECTRIC	Residential	58061306	11-10100	808 HEARD BRIDGE RD
ELECTRIC	Residential	58061316	11-10644	423 AMANDA LN
ELECTRIC	Residential	58061317	10-07030	1305 W MAIN ST
ELECTRIC	Residential	58061321	07-06681	1051 DOWNING CIR 108
ELECTRIC	Residential	58061322	07-18902	1050 MAKOWSKI RD 3
ELECTRIC	Residential	58061326	10-03585	1184 PINE DR
ELECTRIC	Residential	58061329	08-10651	508 S 8TH AVE
ELECTRIC	Commercial	58061332	13-05575	1007 N 6TH AVE
ELECTRIC	Residential	58061334	02-04100	307 N DIANA AVE
ELECTRIC	Residential	58061335	10-03515	1262 ASPEN LANE
ELECTRIC	Residential	58061339	07-17812	1040 MAKOWSKI RD 13
ELECTRIC	Residential	58061340	14-09342	VANDOLAH RD AIRPORT
ELECTRIC	Residential	58061344	12-14725	106 S 4TH AVE
ELECTRIC	Residential	58061347	08-03114	306 W LANE ST
ELECTRIC	Residential	58061349	04-00820	700 E TOWNSEND ST 20
ELECTRIC	Residential	58061354	14-09326	2876 NOVELL ROAD
ELECTRIC	Residential	58061355	14-08695	107 HANCHEY RD
ELECTRIC	Residential	58061357	04-02065	722 LA PLAYA DR
ELECTRIC	Residential	58061358	06-00850	410 N IN AVE
ELECTRIC	Residential	58061361	10-03520	1267 ASPEN LANE
ELECTRIC	Residential	58061365	05-10450	605 W TN ST
ELECTRIC	Residential	58061369	04-00800	700 E TOWNSEND ST 16
ELECTRIC	Residential	58061372	12-14886	1025 S 8TH AVE
ELECTRIC	Residential	58061373	05-08030	119 N 10TH AVE A
ELECTRIC	Residential	58061374	08-04802	805 S 9TH AVE
ELECTRIC	Residential	58061375	05-03147	1011 N 9TH AVE
ELECTRIC	Residential	58061377	10-08030	128 PALDAO ACRES
ELECTRIC	Residential	58061378	05-08800	618 N FL AVE
ELECTRIC	Residential	58061387	05-03180	403 BELL ST
ELECTRIC	Residential	58397429	01-08651	721 E GREEN ST

ELECTRIC	Residential	58397431	02-04200	311 N DIANA AVE
ELECTRIC	Residential	58397432	02-04500	327 N DIANA AVE
ELECTRIC	Residential	58397433	11-11375	801 POLK RD
ELECTRIC	Residential	58397434	02-02320	708 E PALMETTO ST
ELECTRIC	Residential	58397435	01-10300	710 E BAY ST
ELECTRIC	Residential	58397437	01-06812	102 INGLIS WAY
ELECTRIC	Residential	58397438	02-06404	311 N TURNER AVE
ELECTRIC	Residential	58397439	11-13911	212 N OH AVE
ELECTRIC	Residential	58397442	11-05801	311 RIVERSIDE DR
ELECTRIC	Residential	58397452	11-23071	1114 DOWNING CIR
ELECTRIC	Residential	58397453	10-09001	2820 CLOVERHILL DR
ELECTRIC	Residential	58397455	10-03161	1042 MAGNOLIA LN
ELECTRIC	Residential	58397456	02-05701	514 E OAK ST
ELECTRIC	Residential	58397457	05-08191	405 W GA ST
ELECTRIC	Residential	58397458	06-02400	703 W PALMETTO ST
ELECTRIC	Residential	58397459	14-10100	3315 HWY 64 W
ELECTRIC	Residential	58397460	10-01260	1445 GRADY REVELL RD
ELECTRIC	Commercial	58397461	13-05575	1007 N 6TH AVE
ELECTRIC	Residential	58397462	11-11325	764 POLK RD
ELECTRIC	Residential	58397463	02-00950	407 E MAIN ST
ELECTRIC	Residential	58397464	01-06500	112 INGLIS WAY
ELECTRIC	Residential	58397465	13-09560	607 W TN ST
ELECTRIC	Residential	58397466	08-00701	215 S 8TH AVE
ELECTRIC	Residential	58397467	10-01201	1324 GRADY REVELL RD
ELECTRIC	Residential	58397468	11-09605	315 PARK DR
ELECTRIC	Residential	58397471	11-04900	219 RIVERSIDE DR
ELECTRIC	Residential	58397472	02-01800	206 N RUST AVE
ELECTRIC	Residential	58397473	03-08603	612 N 8TH AVE
ELECTRIC	Residential	58397474	11-09810	321 PARK DR
ELECTRIC	Residential	58397475	11-21723	1020 S 9TH AVE 6
ELECTRIC	Residential	58397481	10-07010	1415 W MAIN ST
ELECTRIC	Residential	58397482	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	58397483	14-08196	315 S FL AVE
ELECTRIC	Residential	58397487	01-17600	107 S 3RD AVE
ELECTRIC	Residential	58397488	01-11708	703 E SUMMIT ST
ELECTRIC	Residential	58397489	11-04700	215 RIVERSIDE DR
ELECTRIC	Residential	58397493	13-08140	301 N 7TH AVE
ELECTRIC	Residential	58397494	11-23050	1121 DOWNING CIR
ELECTRIC	Residential	58397495	08-12100	205 S 9TH AVE
ELECTRIC	Residential	58514951	02-01175	507 E MAIN ST
ELECTRIC	Residential	58604597	10-06800	1400 W MAIN ST
ELECTRIC	Residential	59477005	04-02235	779 LA PLAYA DR
ELECTRIC	Residential	59477011	10-12150	4686 W MAIN ST
ELECTRIC	Residential	59477015	02-07320	220 N 3RD AVE
ELECTRIC	Residential	59477016	14-04100	105 W SUMMIT ST
ELECTRIC	Residential	59477020	11-21621	1021 S 9TH AVE 10
ELECTRIC	Residential	59477022	02-07300	401 E PALMETTO ST

ELECTRIC	Residential	59477023	10-07036	1002 BRIARWOOD DR
ELECTRIC	Residential	59477028	07-16605	1030 MAKOWSKI RD 18
ELECTRIC	Residential	59477030	01-08740	204 S WALTON AVE
ELECTRIC	Residential	59477031	02-07180	318 N SHELTON AVE
ELECTRIC	Commercial	59477032	12-14815	502 MARTIN L KING JR AVE
ELECTRIC	Residential	59477033	08-09209	411 W MELENDY ST
ELECTRIC	Residential	59477034	10-09350	64A HWY W
ELECTRIC	Residential	59477035	11-22820	1144 DOWNING CIR
ELECTRIC	Residential	59477036	11-02145	906 MILLER RD
ELECTRIC	Residential	59477037	14-08580	HANCHEY RD
ELECTRIC	Residential	59477038	04-00335	349 RIVERCHASE CIR
ELECTRIC	Residential	59477044	10-11110	3233 JOHN HOLT RD
ELECTRIC	Commercial	59477045	13-07800	207 N 7TH AVE
ELECTRIC	Residential	59477046	12-10402	131 W MAIN ST MAIN
ELECTRIC	Residential	59477047	14-08565	1277 W MAIN ST
ELECTRIC	Residential	59477049	04-00890	700 E TOWNSEND ST 33
ELECTRIC	Residential	59477050	01-06910	708 E MAIN ST
ELECTRIC	Residential	59477055	10-03375	1180 KNOLLWOOD CIRCLE
ELECTRIC	Residential	59477056	04-00110	707 E OAK ST
ELECTRIC	Residential	59477059	02-11901	313 HEARD BRIDGE RD
ELECTRIC	Residential	59477060	08-03620	427 W EDDY ST
ELECTRIC	Residential	59477066	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	59477074	07-11302	218 W SHORT ST
ELECTRIC	Residential	59477076	11-10645	425 AMANDA LN
ELECTRIC	Residential	59477083	01-14701	112 S 1ST AVE
ELECTRIC	Residential	59477084	08-07300	821 S 10TH AVE
ELECTRIC	Residential	59477086	10-03601	1244 PINE DR
ELECTRIC	Residential	59477088	07-16404	1020 MAKOWSKI RD 31
ELECTRIC	Residential	59477089	11-22810	1148 DOWNING CIR
ELECTRIC	Residential	59477090	07-08700	205 W STRICKLAND ST
ELECTRIC	Residential	59477091	05-02303	309 GOOLSBY ST
ELECTRIC	Residential	59477102	04-00160	303 EASON DR
ELECTRIC	Residential	59477106	07-13100	206 S 7TH AVE
ELECTRIC	Residential	59477107	03-11301	505 N 8TH AVE 2
ELECTRIC	Residential	59477109	10-03353	1075 KNOLLWOOD CIR
ELECTRIC	Residential	59477112	10-01220	1355 GRADY REVELL RD
ELECTRIC	Residential	59477116	04-00405	315 RIVERCHASE CIR
ELECTRIC	Residential	59477118	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	59477120	14-03305	1010A S 6TH AVE
ELECTRIC	Residential	59477123	04-00855	700 E TOWNSEND ST 26
ELECTRIC	Residential	59774610	10-07440	313 HIDDEN CREEK CIR
ELECTRIC	Residential	59774611	10-07479	279 HIDDEN CREEK CIR
ELECTRIC	Residential	59774613	10-08010	2035 W MAIN ST
ELECTRIC	Residential	59774614	03-12723	207 N 8TH AVE A
ELECTRIC	Residential	59774616	04-00740	700 E TOWNSEND ST 4
ELECTRIC	Residential	59774617	04-00725	700 E TOWNSEND ST 1
ELECTRIC	Commercial	59774622	14-08262	200 S FL AVE

ELECTRIC	Residential	59774623	05-05262	116 N 10TH AVE
ELECTRIC	Residential	59774624	10-07060	1008 BRIARWOOD
ELECTRIC	Residential	59774626	03-10600	611 N 8TH AVE
ELECTRIC	Residential	59774631	09-00610	312 S 11TH AVE
ELECTRIC	Residential	59774633	06-01995	219 N IN AVE
ELECTRIC	Residential	59774634	13-00200	211 S 5TH AVE
ELECTRIC	Residential	59774638	05-05501	302 N 10TH AVE
ELECTRIC	Residential	59774639	07-10100	616 S 7TH AVE
ELECTRIC	Residential	59774640	09-00800	319 S 11TH AVE
ELECTRIC	Residential	59774643	10-10925	4162 W MAIN ST
ELECTRIC	Residential	59774646	02-01250	113 N 1ST AVE
ELECTRIC	Residential	59774647	10-07431	265 HIDDEN CREEK CIR
ELECTRIC	Residential	59774650	01-18200	316 E ORANGE ST
ELECTRIC	Residential	59774653	02-01450	715 E MAIN ST
ELECTRIC	Residential	59774658	04-00895	700 E TOWNSEND ST 34
ELECTRIC	Residential	59774659	08-03200	902 SEMINOLE ST
ELECTRIC	Residential	59774661	07-09202	710 S 7TH AVE
ELECTRIC	Residential	59774662	14-03295	1014 S 6TH AVE
ELECTRIC	Residential	59774673	08-13300	408 S 9TH AVE
ELECTRIC	Residential	59774676	08-08200	820 S 10TH AVE
ELECTRIC	Residential	59774685	09-00300	514 W BAY ST
ELECTRIC	Residential	59774686	10-07200	316 TERRELL RD
ELECTRIC	Residential	59774694	07-11200	222 W SHORT ST
ELECTRIC	Residential	59774697	13-00858	SUMMITT ST
ELECTRIC	Residential	59774699	01-10809	407 S TULANE AVE
ELECTRIC	Residential	59774703	04-02120	733 LA PLAYA DR
ELECTRIC	Residential	59774704	08-09855	640 S 8TH AVE
ELECTRIC	Residential	59774706	12-00107	301 E MAIN ST
ELECTRIC	Residential	59774710	12-06720	310 COURT ST
ELECTRIC	Residential	59774711	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	59774712	05-03320	803 N 9TH AVE
ELECTRIC	Residential	59774714	09-00095	410 S 10TH AVE
ELECTRIC	Residential	60102016	08-12723	517 S 9TH AVE
ELECTRIC	Residential	61060510	06-03400	210 N PA AVE
ELECTRIC	Residential	61807771	04-00370	329 RIVERCHASE CIR
ELECTRIC	Residential	61807772	02-07210	310 N SHELTON AVE
ELECTRIC	Residential	61807776	05-03170	401 BELL ST
ELECTRIC	Residential	61807779	10-07695	1586 THOMPSON RD
ELECTRIC	Residential	61807785	07-18002	1040 MAKOWSKI RD 12
ELECTRIC	Residential	61807786	05-11100	321 N FL AVE
ELECTRIC	Residential	61807788	07-20096	635 S 5TH AVE G101
ELECTRIC	Residential	61807789	07-06654	1051 DOWNING CIR 105
ELECTRIC	Residential	61807790	04-00950	700 E TOWNSEND ST 45
ELECTRIC	Residential	61807797	02-00275	105 N 3RD AVE A101
ELECTRIC	Residential	61807800	14-07280	1052 DOWNING CIR
ELECTRIC	Residential	61807802	07-17501	1040 MAKOWSKI RD 16
ELECTRIC	Residential	61807803	01-06391	817 E MAIN ST 5A

ELECTRIC	Residential	61807807	11-04000	201 RIVERSIDE DR
ELECTRIC	Residential	61807808	09-03000	304 S 11TH AVE
ELECTRIC	Residential	61807809	07-06418	134 W GRAPEFRUIT ST
ELECTRIC	Residential	61807814	10-03100	1005 KNOLLWOOD CIR
ELECTRIC	Residential	61807817	03-13831	202 W MAIN 202
ELECTRIC	Residential	61807824	12-05550	131 N 8TH AVE
ELECTRIC	Residential	61807825	10-07462	395 HIDDEN CREEK CIR
ELECTRIC	Residential	61807830	10-08060	140 PALDAO ACRES
ELECTRIC	Residential	61807834	10-03181	1022 MAGNOLIA LN
ELECTRIC	Residential	61807835	11-12100	573 POLK RD
ELECTRIC	Residential	61807836	11-13441	502 N OH AVE
ELECTRIC	Residential	61807839	11-10641	415 AMANDA LN
ELECTRIC	Residential	61807841	09-01800	509 S 11TH AVE
ELECTRIC	Residential	61807848	13-00930	175 GRIFFIN RD
ELECTRIC	Residential	61807849	10-03511	1222 ASPEN LANE
ELECTRIC	Residential	61807852	11-13853	253 GEORGETOWN LOOP
ELECTRIC	Residential	61807856	06-14000	613 W MAIN ST
ELECTRIC	Residential	61807861	13-02311	329 N 4TH AVE
ELECTRIC	Residential	61807863	05-09400	412 W SOUTHERLAND ST
ELECTRIC	Residential	61807864	12-06913	103 S 9TH AVE
ELECTRIC	Residential	61807865	10-01240	1419 GRADY REVELL RD
ELECTRIC	Residential	61807866	05-03160	311 BELL ST
ELECTRIC	Residential	61807867	14-04105	317 S 7TH AVE
ELECTRIC	Residential	61807868	04-02010	712 LA PLAYA DR
ELECTRIC	Residential	61807873	09-08591	817 HAWAIIAN DR
ELECTRIC	Residential	61807874	05-08400	510 N FL AVE
ELECTRIC	Residential	61807875	08-05301	815 S 9TH AVE
ELECTRIC	Residential	61807876	04-00090	373 EASON DR
ELECTRIC	Residential	61807877	04-00170	307 EASON DR
ELECTRIC	Residential	61807882	12-00003	CITY TRAFFIC LIGHTS
ELECTRIC	Residential	61807884	10-03570	1050 KNOLLWOOD CIR
ELECTRIC	Residential	61807888	02-05105	326 N TURNER AVE
ELECTRIC	Residential	61807889	02-00850	112 N 3RD AVE
ELECTRIC	Residential	64502536	08-11500	214 S 8TH AVE
ELECTRIC	Residential	64502537	01-06369	817 E MAIN ST 3F
ELECTRIC	Residential	64502539	04-02025	713 LA PLAYA DR
ELECTRIC	Residential	64502540	06-12401	912 W PALMETTO ST
ELECTRIC	Residential	64502544	08-02500	711 S 8TH AVE
ELECTRIC	Residential	64502545	03-09000	708 N 8TH AVE
ELECTRIC	Residential	64502546	10-06448	1455 BURTON ST
ELECTRIC	Residential	64502550	01-13154	612B E BAY ST
ELECTRIC	Residential	64502551	07-18801	1050 MAKOWSKI RD 4
ELECTRIC	Residential	64502553	01-08620	715 E GREEN ST
ELECTRIC	Residential	64502562	01-06590	107 INGLIS WAY
ELECTRIC	Residential	64502563	14-10110	64A HWY W METER)
ELECTRIC	Residential	64502568	06-07150	401 N PA AVE
ELECTRIC	Residential	64502569	06-01273	902 W TN ST

ELECTRIC	Residential	64502570	01-06238	817 E MAIN ST 1C
ELECTRIC	Residential	64502578	08-02510	705 S 8TH AVE
ELECTRIC	Residential	64502580	06-08900	810 W PALMETTO ST
ELECTRIC	Residential	64502583	09-00150	501 W BAY ST
ELECTRIC	Residential	64502584	14-08551	MAINT SHOP STORAGE
ELECTRIC	Residential	64502585	06-02300	201 N IN AVE
ELECTRIC	Residential	64502586	01-13814	501 S 1ST AVE
ELECTRIC	Residential	64502587	09-00200	509 W ORANGE ST
ELECTRIC	Residential	64502588	02-00575	105 N 3RD AVE D102
ELECTRIC	Residential	64502591	04-02005	710 LA PLAYA DR
ELECTRIC	Residential	64502595	13-09000	200 N FL AVE
ELECTRIC	Residential	64502596	11-01780	691 MARTIN L KING JR AVE
ELECTRIC	Residential	64502598	01-10916	411 S TULANE AVE
ELECTRIC	Residential	64502602	06-10600	909 W LA ST
ELECTRIC	Residential	64502604	01-06240	817 E MAIN ST 1D
ELECTRIC	Residential	64502605	01-06357	817 E MAIN ST 3E
ELECTRIC	Residential	64502609	13-02101	203B E TOWNSEND ST
ELECTRIC	Residential	64502610	06-10553	402 N OH AVE
ELECTRIC	Residential	64502611	10-06400	226 ORANGE AVE
ELECTRIC	Residential	64502614	06-03201	709 W PALMETTO ST
ELECTRIC	Residential	64502615	14-09260	770 RECREATION COMPLEX
ELECTRIC	Residential	64502617	10-01230	1395 GRADY REVELL RD
ELECTRIC	Residential	64502618	11-02470	303 MARTIN L KING JR AVE
ELECTRIC	Residential	64502623	01-07800	615 E GREEN ST
ELECTRIC	Residential	64502631	01-12200	618 SAUNDERS ST
ELECTRIC	Residential	64502633	01-06227	817 E MAIN ST 1B
ELECTRIC	Residential	64502634	10-04419	1417 LISA DR
ELECTRIC	Residential	64502635	14-09535	64A HWY W
ELECTRIC	Residential	64502638	01-06270	817 E MAIN ST 1F
ELECTRIC	Residential	64502643	14-02604	120 W HOGAN ST
ELECTRIC	Residential	64502644	10-11420	4390 STEVENS CARLTON PL
ELECTRIC	Residential	64502649	01-13721	613 E SUMMIT ST
ELECTRIC	Residential	64502650	10-08065	144 PALDAO ACRES
ELECTRIC	Residential	64742530	10-07475	275 HIDDEN CREEK CIR
ELECTRIC	Residential	64742533	02-02100	203 N RUST AVE
ELECTRIC	Residential	64742537	06-01710	701 W LA ST
ELECTRIC	Residential	64742538	12-06180	132 S 10TH AVE
ELECTRIC	Commercial	64742540	07-20104	635 S 5TH AVE
ELECTRIC	Residential	64742541	01-13124	614A E BAY ST
ELECTRIC	Residential	64742543	02-04300	315 N DIANA AVE
ELECTRIC	Residential	64742545	06-01615	501 N IN AVE
ELECTRIC	Residential	64742546	02-00551	105 N 3RD AVE D103
ELECTRIC	Residential	64742547	03-08400	604 N 8TH AVE
ELECTRIC	Residential	64742549	01-13740	617 E SUMMIT ST
ELECTRIC	Residential	64742551	02-04602	331 N DIANA AVE
ELECTRIC	Residential	64742553	01-13168	610A E BAY ST
ELECTRIC	Residential	64742557	01-08726	203 S WALTON AVE

ELECTRIC	Residential	64742563	06-00750	314 N IN AVE
ELECTRIC	Residential	64742564	05-10261	612 W KY ST
ELECTRIC	Residential	64742565	11-02170	355 MARTIN L KING JR AVE
ELECTRIC	Residential	64742566	06-01620	702 W LA ST
ELECTRIC	Residential	64742567	11-09100	217 PARK DR
ELECTRIC	Residential	64742568	08-09420	403 W MELENDY ST
ELECTRIC	Residential	64742571	07-09018	722 S 7TH AVE
ELECTRIC	Residential	64742572	10-83100	2024 W MAIN ST
ELECTRIC	Residential	64742573	06-01267	703 N PA AVE
ELECTRIC	Residential	64742575	01-08810	624 E GREEN ST
ELECTRIC	Residential	64742576	14-09560	ALTON CARLTON RD
ELECTRIC	Residential	64742578	01-17500	101 S 3RD AVE
ELECTRIC	Residential	64742579	09-07902	703 HONOLULU DR
ELECTRIC	Residential	64742583	02-01550	109 N RUST AVE
ELECTRIC	Residential	64742587	04-00415	311 RIVERCHASE CIR
ELECTRIC	Residential	64742588	06-09400	813 W LA ST
ELECTRIC	Residential	64742590	03-10503	310 W TOWNSEND ST
ELECTRIC	Residential	64742591	11-22910	1161 DOWNING CIR
ELECTRIC	Residential	64742593	02-00400	105 N 3RD AVE A202
ELECTRIC	Residential	64742594	04-00860	700 E TOWNSEND ST 27
ELECTRIC	Residential	64742595	10-05356	348 CIRCLE DR
ELECTRIC	Residential	64742599	01-06434	817 E MAIN ST 5D
ELECTRIC	Residential	64742600	03-05901	204 W LA ST
ELECTRIC	Residential	64742607	14-07375	419 CARLTON ST
ELECTRIC	Residential	64742609	07-15401	125 CARLTON ST 35
ELECTRIC	Residential	64742611	06-10906	313 IL AVE
ELECTRIC	Residential	64742614	10-11110	3233 JOHN HOLT RD
ELECTRIC	Residential	64742615	01-13139	614B E BAY ST
ELECTRIC	Residential	64742617	06-04031	312 N PA AVE
ELECTRIC	Residential	64742622	01-13710	611 E SUMMIT
ELECTRIC	Residential	64742623	07-20005	635 S 5TH AVE A106
ELECTRIC	Residential	64742625	01-06417	817 E MAIN ST 5C
ELECTRIC	Residential	64742627	06-01240	705 W KY ST
ELECTRIC	Residential	64742629	06-01269	708 IL AVE
ELECTRIC	Residential	64742632	08-10200	612 S 8TH AVE
ELECTRIC	Residential	64742633	05-08040	111 N 10TH AVE
ELECTRIC	Residential	64742634	06-01610	503 N IN AVE
ELECTRIC	Residential	64742635	06-10501	904 W LA ST
ELECTRIC	Residential	64742639	02-00250	105 N 3RD AVE B102
ELECTRIC	Residential	64742641	03-05803	405 N 7TH AVE
ELECTRIC	Residential	64742642	09-02610	418 S 11TH AVE
ELECTRIC	Residential	64742643	05-03130	906 N 9TH AVE
ELECTRIC	Residential	64742648	06-01222	704 W TN ST
ELECTRIC	Residential	64742649	09-00400	505 W BAY ST
ELECTRIC	Residential	66126690	12-07910	221 W MAIN ST
ELECTRIC	Residential	66126691	14-09344	1308 MAURICE SONNY CLAVEL
ELECTRIC	Residential	66126693	02-03901	218 N 1ST AVE

ELECTRIC	Residential	69502597	01-11602	409 S WALTON AVE
ELECTRIC	Residential	69742582	01-13730	615 E SUMMIT ST
ELECTRIC	Commercial	83362284	14-07575	505 S 10TH AVE
ELECTRIC	Residential	87042009	01-10500	311 S WALTON AVE
ELECTRIC	Residential	87042010	13-05870	827 E OAK ST-LIFT STATIO
ELECTRIC	Residential	87042011	06-08800	809 W PALMETTO ST
ELECTRIC	Residential	87042012	06-01771	305 N IN AVE
ELECTRIC	Residential	87070991	08-10500	604 S 8TH AVE
ELECTRIC	Residential	87074908	04-00875	700 E TOWNSEND ST 30
ELECTRIC	Residential	87074910	08-08707	608 S 10TH AVE
ELECTRIC	Residential	87074913	04-02075	726 LA PLAYA DR
ELECTRIC	Residential	87074916	11-22791	1153 DOWNING CIRCLE
ELECTRIC	Residential	87074917	01-10406	702 E BAY ST
ELECTRIC	Commercial	87074919	07-20104	635 S 5TH AVE
ELECTRIC	Residential	87074920	09-02812	316 S 11TH AVE
ELECTRIC	Residential	87074924	01-12300	614 SAUNDERS ST
ELECTRIC	Residential	87074925	01-12310	612 SAUNDERS ST
ELECTRIC	Residential	87074926	02-06016	509 E PALMETTO ST
ELECTRIC	Residential	87074928	04-02260	789 LA PLAYA DR
ELECTRIC	Residential	87074931	06-07482	311 N PA AVE
ELECTRIC	Residential	87074936	11-02710	818 E BAY ST
ELECTRIC	Residential	87074937	04-00885	700 E TOWNSEND ST 32
ELECTRIC	Residential	87074945	09-01101	404 S 11TH AVE
ELECTRIC	Residential	87074946	01-07500	117 S 1ST AVE
ELECTRIC	Residential	87074948	10-02250	1424 BLAIR LANE
ELECTRIC	Residential	87074949	07-10600	203 W SHORT ST
ELECTRIC	Residential	87074950	11-13847	225 GEORGETOWN LOOP
ELECTRIC	Residential	87074952	06-01002	611 W AL ST
ELECTRIC	Residential	87074957	07-07800	916 S 7TH AVE
ELECTRIC	Residential	87074960	01-18400	307 E BAY ST
ELECTRIC	Residential	87074961	06-01101	612 W AL ST
ELECTRIC	Residential	87074963	06-01565	605 IL AVE
ELECTRIC	Residential	87074964	03-09650	317 POLK RD
ELECTRIC	Residential	87074965	07-06691	1051 DOWNING CIR 109
ELECTRIC	Residential	87074967	14-08750	1410 TANGELO DR
ELECTRIC	Residential	87074971	01-14117	212 S 1ST AVE
ELECTRIC	Residential	87074973	03-00200	215 N GEORGE BURRIS AVE
ELECTRIC	Residential	87074974	01-09400	617 E BAY ST
ELECTRIC	Residential	87074975	01-06441	817 E MAIN ST 5E
ELECTRIC	Residential	87074976	04-00830	700 E TOWNSEND ST 22
ELECTRIC	Residential	87074977	04-02275	795 LA PLAYA DR
ELECTRIC	Residential	87074978	11-22710	1190 DOWNING CIR
ELECTRIC	Residential	87074980	07-20100	635 S 5TH AVE G105
ELECTRIC	Residential	87074981	09-00060	426 S 10TH AVE A
ELECTRIC	Residential	87074982	02-00600	105 N 3RD AVE E101
ELECTRIC	Residential	87074987	01-15506	507 E BAY ST
ELECTRIC	Residential	87074989	13-01750	1ST MAIN ST & S AVE

ELECTRIC	Residential	87074998	02-07160	317 N SHELTON AVE
ELECTRIC	Residential	87074999	10-07038	1013 BRIARWOOD
ELECTRIC	Residential	87075000	09-07001	816 HONOLULU DR
ELECTRIC	Commercial	87075002	12-06275	413 W ORANGE ST
ELECTRIC	Residential	87075006	11-08001	214 RIVERSIDE DR
ELECTRIC	Residential	87075007	14-03520	702 S 6TH AVE
ELECTRIC	Residential	87075008	02-11401	405 HEARD BRIDGE RD
ELECTRIC	Residential	87075009	07-20101	635 S 5TH AVE G106
ELECTRIC	Residential	87075011	06-01270	710 IL AVE
ELECTRIC	Residential	87075012	07-20019	635 S 5TH AVE B104
ELECTRIC	Residential	87075016	03-08100	508 N 8TH AVE
ELECTRIC	Residential	87075017	05-05101	219 N 9TH AVE
ELECTRIC	Residential	87075018	10-03300	1071 MAGNOLIA LANE
ELECTRIC	Residential	87075022	05-05004	301 N 9TH AVE
ELECTRIC	Residential	87075023	01-09100	603 E BAY ST
ELECTRIC	Residential	87075024	03-12105	301 N 8TH AVE BACK
ELECTRIC	Residential	87075026	10-04000	1336 LISA DR
ELECTRIC	Residential	87075029	10-05320	433 CIRCLE DR
ELECTRIC	Residential	87075030	04-02160	743 LA PLAYA DR
ELECTRIC	Residential	87075034	10-03290	1100 MAGNOLIA LN
ELECTRIC	Residential	87075035	01-08304	639 E GREEN ST
ELECTRIC	Residential	87075038	03-13575	120 N 8TH AVE
ELECTRIC	Residential	87075040	02-06030	511 E PALMETTO ST
ELECTRIC	Residential	87075044	05-03340	406 W SOUTHERLAND ST
ELECTRIC	Residential	87075048	08-06100	810 S 9TH AVE
ELECTRIC	Residential	87075050	03-13500	201 N 8TH AVE
ELECTRIC	Residential	87075051	10-03291	1090 MAGNOLIA LN
ELECTRIC	Residential	87075053	01-09900	726 E BAY ST
ELECTRIC	Residential	87075054	06-00902	504 N IN AVE
ELECTRIC	Residential	87075055	06-09325	310 IL AVE
ELECTRIC	Residential	87075057	01-06461	116 INGLIS WAY
ELECTRIC	Residential	87075061	10-01265	181 ALTMAN RD
ELECTRIC	Residential	87075063	06-02850	620 W MAIN ST
ELECTRIC	Residential	87075064	10-05330	428 CIRCLE DR
ELECTRIC	Residential	87075068	12-06914	105 S 9TH AVE
ELECTRIC	Residential	87075069	09-01914	607 PEACE DR OFFICE/APT
ELECTRIC	Residential	87075071	06-01298	609 N PA AVE
ELECTRIC	Residential	87075072	09-09300	518 S FL AVE
ELECTRIC	Residential	87075073	01-18568	208 S 4TH AVE
ELECTRIC	Residential	87075074	12-06080	501 W MAIN ST
ELECTRIC	Residential	87075076	06-01585	708 W AL ST
ELECTRIC	Residential	87075078	03-00400	110 E OAK ST
ELECTRIC	Residential	87075080	05-09903	826 N FL AVE
ELECTRIC	Residential	87075082	12-00803	217 E MAIN ST
ELECTRIC	Residential	87075083	12-20415	129 W MAIN ST 204
ELECTRIC	Residential	87075084	14-09610	3306 GRIFFIN WHIDDEN RD
ELECTRIC	Residential	87075086	11-10630	422 BELL ST

ELECTRIC	Residential	87075088	01-06323	817 E MAIN ST 3B
ELECTRIC	Residential	87075091	04-00795	700 E TOWNSEND ST 15
ELECTRIC	Residential	87075092	04-02280	797 LA PLAYA DR
ELECTRIC	Residential	87075093	04-02285	799 LA PLAYA DR
ELECTRIC	Residential	87075094	04-02225	775 LA PLAYA DR
ELECTRIC	Residential	87075096	10-07438	266 HIDDEN CREEK
ELECTRIC	Residential	87075098	01-06485	101 INGLIS WAY
ELECTRIC	Residential	87075101	01-17900	115 S 3RD AVE
ELECTRIC	Residential	87075103	09-01920	520 S 11TH AVE
ELECTRIC	Residential	87075104	09-08402	816 HAWAIIAN DR
ELECTRIC	Residential	87075105	14-08601	1293 W MAIN ST
ELECTRIC	Residential	87075109	06-01250	703 W KY ST
ELECTRIC	Residential	87075111	07-06728	309 CARLTON ST 2
ELECTRIC	Residential	87075112	01-07300	107 S 1ST AVE
ELECTRIC	Residential	87075113	01-10000	724 E BAY ST
ELECTRIC	Residential	87075116	10-07442	221 HIDDEN CREEK CIR
ELECTRIC	Residential	87075117	13-02360	334A N 4TH AVE
ELECTRIC	Residential	87075118	01-15614	212 S 3RD AVE
ELECTRIC	Residential	87075119	01-08350	645 E GREEN ST
ELECTRIC	Residential	87075120	11-23300	1015 MAKOWSKI RD
ELECTRIC	Residential	87075121	09-03100	208 S 11TH AVE
ELECTRIC	Residential	87075122	08-03614	421 W EDDY ST
ELECTRIC	Residential	87075125	04-02195	764 LA PLAYA DR
ELECTRIC	Residential	87075127	01-12214	616 SAUNDERS ST
ELECTRIC	Residential	87075128	01-08157	627 E GREEN ST
ELECTRIC	Residential	87075131	10-09100	3400 W MAIN ST
ELECTRIC	Residential	87075132	07-07900	912 S 7TH AVE
ELECTRIC	Residential	87075134	10-07411	211 HIDDEN CREEK CIR
ELECTRIC	Residential	87075143	01-08715	706 E GREEN ST
ELECTRIC	Residential	87075145	10-08901	3341 W MAIN ST
ELECTRIC	Residential	87075147	10-04351	1367 LISA DR
ELECTRIC	Residential	87705047	01-18560	208 E BAY ST
ELECTRIC	Residential	87948661	10-03857	338 STENSTROM RD 237
ELECTRIC	Residential	87948662	10-03858	338 STENSTROM RD 238
ELECTRIC	Residential	87948663	10-03860	338 STENSTROM RD 240
ELECTRIC	Residential	87948664	10-03859	338 STENSTROM RD 239
ELECTRIC	Residential	87948665	10-03833	338 STENSTROM RD 130
ELECTRIC	Residential	87948666	10-03835	338 STENSTROM RD 133
ELECTRIC	Residential	87948667	10-03843	338 STENSTROM RD 221
ELECTRIC	Residential	87948668	10-03832	338 STENSTROM RD 128
ELECTRIC	Residential	87948669	10-03820	338 STENSTROM RD 214
ELECTRIC	Residential	87948670	10-03818	338 STENSTROM RD 210
ELECTRIC	Residential	87948671	10-03817	338 STENSTROM RD 208
ELECTRIC	Residential	87948672	10-03819	338 STENSTROM RD 212
ELECTRIC	Residential	87948673	10-03825	338 STENSTROM RD 219
ELECTRIC	Residential	87948674	10-03826	338 STENSTROM RD 220
ELECTRIC	Residential	87948676	10-03816	338 STENSTROM RD 207

ELECTRIC	Residential	87948677	10-03853	338 STENSTROM RD 233
ELECTRIC	Residential	87948678	10-03852	338 STENSTROM RD 232
ELECTRIC	Residential	87948679	10-03850	338 STENSTROM RD 228
ELECTRIC	Residential	87948680	10-03851	338 STENSTROM RD 230
ELECTRIC	Residential	87948681	10-03838	338 STENSTROM RD 136
ELECTRIC	Residential	87948682	10-03839	338 STENSTROM RD 137
ELECTRIC	Residential	87948683	10-03840	338 STENSTROM RD 138
ELECTRIC	Residential	87948684	10-03842	338 STENSTROM RD 140
ELECTRIC	Residential	87948685	10-03844	338 STENSTROM RD 222
ELECTRIC	Residential	87948686	10-03847	338 STENSTROM RD 225
ELECTRIC	Residential	87948687	10-03846	338 STENSTROM RD 224
ELECTRIC	Residential	87948688	10-03845	338 STENSTROM RD 223
ELECTRIC	Residential	87948691	10-03848	338 STENSTROM RD 226
ELECTRIC	Residential	87948692	10-03812	338 STENSTROM RD 116
ELECTRIC	Residential	87948693	10-03802	338 STENSTROM RD 103
ELECTRIC	Residential	87948694	10-03801	338 STENSTROM RD 102
ELECTRIC	Residential	87948695	10-03800	338 STENSTROM RD 101
ELECTRIC	Residential	87948696	10-03803	338 STENSTROM RD 104
ELECTRIC	Residential	87948697	10-03822	338 STENSTROM RD 216
ELECTRIC	Residential	87948698	10-03824	338 STENSTROM RD 218
ELECTRIC	Residential	87948699	10-03823	338 STENSTROM RD 217
ELECTRIC	Residential	87948700	10-03821	338 STENSTROM RD 215
ELECTRIC	Residential	87948701	10-03831	338 STENSTROM RD 127
ELECTRIC	Commercial	87948702	13-05006	149 KD REVELL RD
ELECTRIC	Residential	87948703	10-03856	338 STENSTROM RD 236
ELECTRIC	Residential	87948704	10-03829	338 STENSTROM RD 125
ELECTRIC	Residential	87948705	10-03865	338 STENSTROM RD 206
ELECTRIC	Residential	87948706	10-03864	338 STENSTROM RD 205
ELECTRIC	Residential	87948707	10-03834	338 STENSTROM RD 132
ELECTRIC	Residential	87948708	10-03815	338 STENSTROM RD 201
ELECTRIC	Residential	87948709	10-03854	338 STENSTROM RD 234
ELECTRIC	Residential	87948710	10-03849	338 STENSTROM RD 227
ELECTRIC	Residential	87948712	10-03855	338 STENSTROM RD 235
ELECTRIC	Residential	87948713	10-03804	338 STENSTROM RD 105
ELECTRIC	Residential	87948715	10-03809	338 STENSTROM RD 112
ELECTRIC	Residential	87948716	10-03808	338 STENSTROM RD 110
ELECTRIC	Residential	87948717	10-03807	338 STENSTROM RD 108
ELECTRIC	Residential	87948718	10-03805	338 STENSTROM RD 106
ELECTRIC	Residential	87948719	10-03806	338 STENSTROM RD 107
ELECTRIC	Residential	87948720	10-03811	338 STENSTROM RD 115
ELECTRIC	Residential	87948722	10-03715	338 STENSTROM RD 119
ELECTRIC	Residential	87948723	10-03814	338 STENSTROM RD 118
ELECTRIC	Residential	87948724	10-03813	338 STENSTROM RD 117
ELECTRIC	Residential	87948725	10-03827	338 STENSTROM RD 123
ELECTRIC	Residential	87948726	10-03828	338 STENSTROM RD 124
ELECTRIC	Residential	87948727	10-03836	338 STENSTROM RD 134
ELECTRIC	Residential	87948728	10-03837	338 STENSTROM RD 135

ELECTRIC	Residential	87948729	10-03861	338 STENSTROM RD 202
ELECTRIC	Residential	87948731	10-03863	338 STENSTROM RD 204
ELECTRIC	Residential	87948732	10-03862	338 STENSTROM RD 203
ELECTRIC	Residential	88639537	03-11702	313 N 8TH AVE
ELECTRIC	Residential	88639538	03-13850	216 N 8TH AVE 1
ELECTRIC	Residential	89011679	04-00325	355 RIVERCHASE CIR
ELECTRIC	Residential	89011680	12-10106	511 S 7TH AVE
ELECTRIC	Residential	89011681	09-02200	506 S 11TH AVE
ELECTRIC	Residential	89011707	04-02045	720 LA PLAYA DR
ELECTRIC	Residential	89011708	14-10075	3177 HIGHTOWER PUMP)
ELECTRIC	Residential	89011709	10-07433	262 HIDDEN CREEK CIRCLE
ELECTRIC	Residential	89011710	06-01296	613 N PA AVE
ELECTRIC	Residential	89011711	10-06420	1320 W PALMETTO ST
ELECTRIC	Residential	89011714	10-07409	297 HIDDEN CREEK CIR
ELECTRIC	Residential	89011733	06-02800	704 W MAIN ST
ELECTRIC	Residential	89011738	09-07600	807 HONOLULU DR
ELECTRIC	Residential	89011747	02-00525	105 N 3RD AVE D101
ELECTRIC	Residential	89011748	09-08650	811 HAWAIIAN DR
ELECTRIC	Residential	89011749	02-05000	330 N TURNER AVE
ELECTRIC	Residential	89011750	10-09150	3632 W MAIN ST
ELECTRIC	Residential	89011754	11-10646	427 AMANDA LN
ELECTRIC	Residential	89011755	02-01275	120 N 1ST AVE
ELECTRIC	Residential	89011758	06-10400	409 IL AVE
ELECTRIC	Residential	89011762	10-00301	1296 W MAIN ST
ELECTRIC	Residential	89011773	01-06901	100 INGLIS WAY
ELECTRIC	Residential	89011779	01-06279	817 E MAIN ST 2A
ELECTRIC	Residential	89011785	09-01100	401 S 11TH AVE
ELECTRIC	Residential	89011786	05-03150	315 BELL ST
ELECTRIC	Residential	89011791	10-05335	408 CIRCLE DR
ELECTRIC	Residential	89011792	11-22920	1165 DOWNING CIR
ELECTRIC	Residential	89011793	14-03391	108 CARLTON ST
ELECTRIC	Residential	89011795	02-00225	105 N 3RD AVE B101
ELECTRIC	Residential	89011796	05-10900	401 N FL AVE
ELECTRIC	Residential	89011798	03-12000	305 N 8TH AVE
ELECTRIC	Residential	89011801	06-07600	301 N PA AVE
ELECTRIC	Residential	89011805	03-10200	711 N 8TH AVE
ELECTRIC	Residential	89011806	12-20416	129 W MAIN ST 205
ELECTRIC	Residential	89011807	10-03990	1329 LISA DR
ELECTRIC	Residential	89011808	04-00315	359 RIVERCHASE CIR
ELECTRIC	Residential	89114215	03-13900	216 N 8TH AVE 2
ELECTRIC	Residential	89114216	01-14605	515 E ORANGE ST
ELECTRIC	Residential	89114217	10-07477	304 HIDDEN CREEK
ELECTRIC	Residential	89114219	11-02740	246 GRIFFIN RD
ELECTRIC	Residential	89114223	01-08716	202 S WALTON AVE
ELECTRIC	Residential	89114224	14-07350	1002 S 9TH AVE
ELECTRIC	Residential	89114226	05-00411	312 W OAK ST
ELECTRIC	Residential	89114231	07-06422	124 W GRAPEFRUIT ST

ELECTRIC	Residential	89114234	10-03651	1020 KNOLLWOOD CIR
ELECTRIC	Residential	89114236	01-06263	817 E MAIN ST 1E
ELECTRIC	Residential	89114237	06-10300	501 IL AVE
ELECTRIC	Residential	89114244	01-11900	412 S WALTON AVE
ELECTRIC	Residential	89114245	01-17810	109 S 3RD AVE
ELECTRIC	Residential	89114248	05-08035	119 N 10TH AVE B
ELECTRIC	Residential	89114252	14-09330	1285 MAURICE SONNY CLAVEL
ELECTRIC	Residential	89114254	10-08030	128 PALDAO ACRES
ELECTRIC	Residential	89114255	10-07412	215 HIDDEN CREEK CIR
ELECTRIC	Residential	89114258	05-07805	510 W PALMETTO ST
ELECTRIC	Residential	89114261	01-07902	619 E GREEN ST
ELECTRIC	Residential	89114262	06-03000	114 N PA AVE
ELECTRIC	Residential	89114263	12-04310	123 N 7TH AVE
ELECTRIC	Residential	89114269	09-05201	520 W EDDY ST
ELECTRIC	Residential	89114271	06-01275	608 N PA AVE
ELECTRIC	Residential	89114272	06-02200	207 N IN AVE
ELECTRIC	Residential	89114274	04-02040	718 LA PLAYA DR
ELECTRIC	Residential	89114276	05-06397	317 N 10TH AVE
ELECTRIC	Residential	89114282	01-08800	632 E GREEN ST
ELECTRIC	Residential	89114288	05-08180	410 N FL AVE
ELECTRIC	Residential	89114289	10-06410	1319 W PALMETTO ST
ELECTRIC	Residential	89114292	01-11805	702 E SUMMIT ST
ELECTRIC	Residential	89114293	10-07441	271 HIDDEN CREEK CIR
ELECTRIC	Residential	89114295	11-02460	305 MARTIN L KING JR AVE
ELECTRIC	Residential	89114297	10-03685	810 PIERCE RD
ELECTRIC	Residential	89114298	08-00105	209 W ORANGE ST
ELECTRIC	Residential	89114304	01-08606	711 E GREEN ST
ELECTRIC	Residential	89114306	01-08610	713 E GREEN ST
ELECTRIC	Residential	89114307	01-07200	602 E MAIN ST
ELECTRIC	Residential	89114308	06-01750	313 N IN AVE
ELECTRIC	Residential	89114310	09-09000	705 HAWAIIAN DR
ELECTRIC	Residential	89114311	10-07400	1245 W LA ST
ELECTRIC	Residential	89114314	06-00150	114 N IN AVE
ELECTRIC	Residential	89114317	08-01500	321 S 8TH AVE N
ELECTRIC	Residential	89114318	09-01950	512 S 11TH AVE
ELECTRIC	Residential	89114321	10-06470	211 ORANGE AVE
ELECTRIC	Residential	89114322	01-11000	414 S TULANE AVE
ELECTRIC	Residential	89114328	06-00741	312 N IN AVE
ELECTRIC	Residential	89114329	01-08511	709 E GREEN ST
ELECTRIC	Residential	89114331	09-01201	405 S 11TH AVE
ELECTRIC	Residential	89774664	13-05800	915 N 6TH AVE
ELECTRIC	Residential	90321082	01-09203	607 E BAY ST
ELECTRIC	Residential	90321083	12-08005	209 W MAIN ST HERITAGE
ELECTRIC	Residential	90321086	12-20414	129 W MAIN ST 203
ELECTRIC	Residential	90321089	13-01613	E MAIN ST
ELECTRIC	Residential	90321090	10-12370	2911 HIGHTOWER LN
ELECTRIC	Residential	90321093	06-09660	412 IL AVE

ELECTRIC	Residential	90321094	04-02215	771 LA PLAYA DR
ELECTRIC	Residential	90321095	09-01905	511 PEACE DR
ELECTRIC	Residential	90321096	06-13200	119 N OH AVE
ELECTRIC	Residential	90321097	01-06343	817 E MAIN ST 3D
ELECTRIC	Residential	90321100	01-11103	410 S TULANE AVE
ELECTRIC	Residential	90321115	04-00775	700 E TOWNSEND ST 11
ELECTRIC	Residential	90321116	02-06800	329 N TURNER AVE
ELECTRIC	Residential	90321118	08-05103	811 S 9TH AVE
ELECTRIC	Residential	90321121	08-09110	601 S 10TH AVE
ELECTRIC	Residential	90321122	10-05310	443 CIRCLE DR
ELECTRIC	Residential	90321123	03-08200	514 N 8TH AVE
ELECTRIC	Residential	90321125	11-22800	1152 DOWNING CIR
ELECTRIC	Residential	90321807	09-09340	803 SHADY NOOK CIR
ELECTRIC	Residential	93141785	03-13833	202 W MAIN 204
ELECTRIC	Residential	93141810	10-03370	1098 KNOLLWOOD CIR
ELECTRIC	Residential	93211423	03-09200	716 N 8TH AVE
ELECTRIC	Residential	96474936	13-10600	1121 W LA ST
ELECTRIC	Residential	153155901	10-03049	972 STENSTROM RD
ELECTRIC	Residential	153155902	01-14900	502 E MAIN ST
ELECTRIC	Residential	209024777	04-01010	130 E TOWNSEND ST
ELECTRIC	Residential	284244990	06-10350	411 IL AVE
ELECTRIC	Residential	489082288	05-08155	520 W MAIN ST 14
ELECTRIC	Residential	496023721	10-07020	1405 W MAIN ST
ELECTRIC	Residential	496603828	02-02001	205 N RUST AVE
ELECTRIC	Residential	891111427	10-03150	1055 KNOLLWOOD CIR
SOLAR- BI-DIR	Residential	EC 117315424	02-02800	608 E PALMETTO ST
SOLAR- BI-DIR	Residential	EC 11731542R	02-02800	608 E PALMETTO ST
SOLAR- BI-DIR	Residential	EC 117389100	10-05358	338 CIRCLE DR
SOLAR- BI-DIR	Residential	EC 11738910R	10-05358	338 CIRCLE DR
SOLAR- BI-DIR	Residential	EC 120023614	13-01850	333 N TURNER AVE
SOLAR- BI-DIR	Residential	EC 120023633	06-01517	612 IL AVE
SOLAR- BI-DIR	Residential	EC 120023634	06-01230	706 W TN ST
SOLAR- BI-DIR	Residential	EC 12002363R	06-01230	706 W TN ST
SOLAR- BI-DIR	Residential	EC 120023778	06-03300	712 W PALMETTO ST
SOLAR- BI-DIR	Residential	EC 12002377R	06-03300	712 W PALMETTO ST
SOLAR- BI-DIR	Residential	EC 120897248	10-07650	711 ALTMAN ROAD
SOLAR- BI-DIR	Residential	EC 12089724R	10-07650	711 ALTMAN ROAD
SOLAR- BI-DIR	Residential	EC 148181717	05-05210	405 W PALMETTO ST
SOLAR- BI-DIR	Residential	EC 14818171R	05-05210	405 W PALMETTO ST
SOLAR- BI-DIR	Residential	EC 150940538	01-06495	103 INGLIS WAY
SOLAR- BI-DIR	Residential	EC 15094053R	01-06495	103 INGLIS WAY
SOLAR- BI-DIR	Residential	EC 150940540	11-13855	267 GEORGETOWN LOOP
SOLAR- BI-DIR	Residential	EC 15094054R	11-13855	267 GEORGETOWN LOOP
SOLAR- BI-DIR	Residential	EC 156856373	09-09225	707 CROSBY LANE
SOLAR- BI-DIR	Residential	EC 156856375	08-11301	301 W BAY ST
SOLAR- BI-DIR	Residential	EC 156856376	10-03705	848 PIERCE RD
SOLAR- BI-DIR	Residential	EC 15685637R	08-11301	301 W BAY ST

SOLAR- BI-DIR	Residential	EC 170099535	11-07804	218 RIVERSIDE DR
SOLAR- BI-DIR	Residential	EC 170099536	11-04403	209 RIVERSIDE DR
SOLAR- BI-DIR	Residential	EC 170099537	03-09100	712 N 8TH AVE
SOLAR- BI-DIR	Residential	EC 170099538	01-07401	111 S 1ST AVE
SOLAR- BI-DIR	Residential	EC 17009953R	11-04403	209 RIVERSIDE DR
SOLAR- BI-DIR	Residential	EC 170099632	09-09201	704 S FL AVE
SOLAR- BI-DIR	Residential	EC 170099633	10-03080	1146 STENSTROM RD
SOLAR- BI-DIR	Residential	EC 170099634	02-01525	110 N RUST AVE
SOLAR- BI-DIR	Residential	EC 17009963R	02-01525	110 N RUST AVE
ELECTRIC	Commercial	36346550	12-14850	400 S FL AVE
ELECTRIC	Residential	33843250	14-09825	4350 W MAIN ST
ELECTRIC	Residential	33843253	13-06909	317 N 6TH AVE
ELECTRIC	Commercial	33843254	14-08260	200 S FL AVE
ELECTRIC	Residential	33843272	13-10600	1121 W LA ST
ELECTRIC	Commercial	33843273	14-08272	200 S FL AVE
ELECTRIC	Residential	33843274	14-04600	220-222 S 6TH AVE
ELECTRIC	Commercial	33843277	12-06420	124 S 9TH AVE SUITE 100
ELECTRIC	Residential	33843284	14-09100	630 HANCHEY RD
ELECTRIC	Residential	33843286	12-14890	401 ORANGE PL
ELECTRIC	Commercial	33843287	14-08275	S FL AVE
ELECTRIC	Residential	36346535	12-14930	830 ALTMAN RD
ELECTRIC	Residential	36346537	12-06510	401 W MAIN ST
ELECTRIC	Residential	36346539	14-03020	1105 S 6TH AVE
ELECTRIC	Residential	36346543	12-02401	102 N 6TH AVE
ELECTRIC	Residential	36346545	14-08219	400 S FL AVE MEDIA CENTE
ELECTRIC	Residential	36346546	12-14830	126 S 7TH AVE
ELECTRIC	Residential	36346551	12-14905	1101 S 6TH AVE
ELECTRIC	Commercial	36346553	13-00636	300 E MAIN ST
ELECTRIC	Commercial	36346555	12-14840	417 W MAIN ST
ELECTRIC	Residential	36346557	13-00910	GREEN ST
ELECTRIC	Commercial	36346563	12-14817	121 KD REVELL RD
ELECTRIC	Commercial	36346566	13-05006	149 KD REVELL RD
ELECTRIC	Commercial	36346567	12-14880	533 CARLTON ST
ELECTRIC	Residential	36346570	12-14820	112 N 6TH AVE
ELECTRIC	Residential	36346574	14-01302	415 S 6TH AVE
ELECTRIC	Commercial	36346575	12-14840	417 W MAIN ST
ELECTRIC	Residential	36346577	12-03230	118 W MAIN ST
ELECTRIC	Commercial	53539729	12-03225	116 W MAIN ST
ELECTRIC	Residential	53539734	14-03170	1330 S 6TH AVE
ELECTRIC	Commercial	53539735	12-06301	404 W ORANGE ST
ELECTRIC	Residential	53541769	14-03250	1030 S 6TH AVE
ELECTRIC	Residential	53541773	13-07220	101 W OAK ST
ELECTRIC	Residential	53541774	14-02610	897 S 6TH AVE
ELECTRIC	Commercial	53541776	12-14815	502 MARTIN L KING JR AVE
ELECTRIC	Residential	53541779	12-03215	112 & 124 N 7TH AVE
ELECTRIC	Residential	53541780	14-08530	1258 W MAIN ST
ELECTRIC	Residential	59168075	13-03202	202 N 6TH AVE

ELECTRIC	Residential	59168077	14-02700	899 S 6TH AVE
ELECTRIC	Residential	59168079	13-01615	1321 E MAIN ST
ELECTRIC	Residential	59168082	12-02600	107 E MAIN ST
ELECTRIC	Residential	59168083	12-05700	318 W MAIN ST
ELECTRIC	Residential	59168084	12-02301	106 N 6TH AVE
ELECTRIC	Residential	61978306	12-00275	225 E MAIN ST CITY HALL
ELECTRIC	Residential	61978309	14-03190	1102 S 6TH AVE
ELECTRIC	Commercial	86011916	12-14850	400 S FL AVE
ELECTRIC	Residential	87075003	12-02401	102 N 6TH AVE
ELECTRIC	Commercial	88216427	14-08272	200 S FL AVE
ELECTRIC	Commercial	88216432	12-14870	200 S FL AVE
ELECTRIC	Residential	88216435	13-02700	225 E OAK ST
ELECTRIC	Residential	41281674	14-09328	AIRPORT RUNWAY LIGHT
ELECTRIC	Residential	153155897	12-14885	515 CARLTON ST
ELECTRIC	Residential	153155898	14-09331	1314 MAURICE SONNY CLEVEL
ELECTRIC	Residential	153155899	13-06225	765 N 6TH AVE
ELECTRIC	Residential	153155904	14-06990	1020 MAKOWSKI RD
ELECTRIC	Commercial	153155905	14-08262	200 S FL AVE
ELECTRIC	Commercial	153155907	13-07800	207 N 7TH AVE
ELECTRIC	Residential	153487711	14-07022	215 CARLTON ST 102
ELECTRIC	Residential	153487712	14-09328	AIRPORT RUNWAY LIGHT
WATER	Residential	0	12-06720	310 COURT ST
WATER	Residential	006292	13-04203	610A N 6TH AVE
WATER	Residential	19036	04-00125	713 E OAK ST
WATER	Residential	61655	05-08100	520 W MAIN ST 17
WATER	Residential	00258415	12-14887	437 CARLTON ST
WATER	Residential	00258417	02-02850	603 E PALMETTO ST
WATER	Residential	00258418	11-10615	416 BELL ST
WATER	Residential	00258424	04-02080	723 LA PLAYA DR
WATER	Residential	00258427	05-03400	713 N 9TH AVE
WATER	Residential	00258430	10-03441	1225 KNOLLWOOD CIR
WATER	Residential	00287716	14-02700	899 S 6TH AVE
WATER	Residential	00287718	09-07100	820 HONOLULU DR
WATER	Residential	00287722	05-04300	421 N 9TH AVE
WATER	Residential	00287724	06-09600	806 W GA ST
WATER	Residential	0502500	01-06485	101 INGLIS WAY
WATER	Residential	0502504	11-10560	304 BELL ST
WATER	Residential	0502517	02-07260	415 E OAK ST
WATER	Residential	0502570	01-16175	404 E ORANGE ST
WATER	Residential	0505577	07-10803	213 W SHORT ST
WATER	Residential	505589	03-05304	515 N 7TH AVE A
WATER	Residential	0505592	01-16150	402 E ORANGE ST
WATER	Residential	0505605	12-05900	502 W MAIN ST
WATER	Residential	0524342	11-13845	219 GEORGETOWN LOOP
WATER	Residential	0524351	14-01200	409 S 6TH AVE
WATER	Residential	0524353	09-09250	714 CROSBY LANE
WATER	Residential	0524354	11-13880	246 GEORGETOWN LOOP

WATER	Residential	0527724	10-03665	1000 KNOLLWOOD CIRCLE
WATER	Residential	0527726	11-13849	235 GEORGETOWN LOOP
WATER	Residential	0531078	06-01277	606 N PA AVE
WATER	Residential	0531081	06-09300	228 IL AVE
WATER	Residential	0531106	10-03375	1180 KNOLLWOOD CIRCLE
WATER	Residential	0531107	12-10181	120 W ORANGE ST
WATER	Residential	0531109	08-13320	406 S 9TH AVE
WATER	Residential	0531112	11-23000	1093 DOWNING CIR
WATER	Residential	0531113	12-05550	131 N 8TH AVE
WATER	Residential	0531115	08-13235	606 S 9TH AVE
WATER	Residential	800900	06-08103	804 W PALMETTO ST
WATER	Residential	0801552	14-03070	1109-1111 S 6TH AVE
WATER	Residential	845685	14-03050	1107 S 6TH AVE
WATER	Residential	847910	05-07805	510 W PALMETTO ST
WATER	Residential	880664	11-22910	1161 DOWNING CIR
WATER	Residential	923076	06-14100	609 W MAIN ST
WATER	Residential	1065452	11-09310	301 PARK DR
WATER	Residential	1067545	11-06501	327 RIVERSIDE DR
WATER	Residential	1910941	01-14701	112 S 1ST AVE
WATER	Residential	2013874	11-09980	224 PARK DR
WATER	Residential	2076244	14-02980	8 SIMS RD
WATER	Residential	2137494	10-06800	1400 W MAIN ST
WATER	Residential	2524867	02-01275	120 N 1ST AVE
WATER	Residential	2528719	11-10642	417 AMANDA LN
WATER	Residential	2572135	14-06980	MAKOWSKI RD
WATER	Residential	04100747	13-03506	320 N 6TH AVE
WATER	Residential	4100777	09-02900	310 S 11TH AVE
WATER	Residential	04100780	10-03300	1071 MAGNOLIA LANE
WATER	Residential	04100781	02-11805	315 HEARD BRIDGE RD
WATER	Commercial	04100782	13-08200	912 N 8TH AVE
WATER	Residential	04100808	02-06030	511 E PALMETTO ST
WATER	Residential	04100815	09-09318	708 OAK FOREST DR
WATER	Residential	4100843	01-17600	107 S 3RD AVE
WATER	Residential	04100848	13-03508	322 N 6TH AVE
WATER	Residential	4304700	05-08700	614 N FL AVE
WATER	Residential	4566714	10-03411	1305 KNOLLWOOD CIR
WATER	Residential	5509918	13-05950	916 N 7TH AVE
WATER	Residential	5700457	02-04500	327 N DIANA AVE
WATER	Residential	5853294	13-05175	1448 US HWY 17 N
WATER	Residential	5853295	02-02750	612 E PALMETTO ST
WATER	Residential	5853406	13-05077	110 HEARTLAND WAY
WATER	Residential	5853416	12-06010	521 W MAIN ST
WATER	Residential	5853418	11-13862	289 GEORGETOWN LOOP
WATER	Residential	5853423	04-00145	721 E OAK ST
WATER	Residential	6628108	08-13240	512 S 9TH AVE
WATER	Residential	6700360	06-08326	117 N PA AVE
WATER	Residential	6700361	07-10205	614 S 7TH AVE

WATER	Residential	6700366	14-03380	102 CARLTON ST
WATER	Residential	6700369	05-10450	605 W TN ST
WATER	Residential	6700375	11-13855	267 GEORGETOWN LOOP
WATER	Residential	6700377	03-05998	208 W LA ST
WATER	Residential	6700381	06-08900	810 W PALMETTO ST
WATER	Residential	6700460	04-00105	369 EASON DR
WATER	Residential	6700463	04-02155	741 LA PLAYA DR
WATER	Residential	6760420	10-07090	1026 BRIARWOOD DR
WATER	Residential	6760422	07-06728	309 CARLTON ST 2
WATER	Residential	6760426	10-03241	1047 MAGNOLIA LN
WATER	Residential	6760428	05-03210	906 N FL AVE
WATER	Residential	6760429	04-00085	712 E OAK ST
WATER	Residential	6760431	04-01025	328 N 4TH AVE
WATER	Residential	6760433	05-10910	405 N FL AVE
WATER	Commercial	6760434	14-08262	200 S FL AVE
WATER	Residential	6873664	04-02200	765 LA PLAYA DR
WATER	Residential	6873665	09-03050	210 S 11TH AVE
WATER	Residential	6873666	07-16001	1020 MAKOWSKI RD 27
WATER	Residential	6873667	13-10615	213 N FL AVE
WATER	Residential	6873668	06-07212	810 W LA ST
WATER	Residential	6873669	11-22830	1140 DOWNING CIR
WATER	Residential	6873671	13-05080	120 HEARTLAND WAY
WATER	Residential	6873672	11-02010	690 MARTIN L KING JR AVE
WATER	Residential	6873685	09-04100	513 S FL AVE
WATER	Residential	7372326	04-02225	775 LA PLAYA DR
WATER	Residential	7470598	04-02015	714 LA PLAYA DR
WATER	Residential	07518381	07-12225	204 W BAY ST
WATER	Residential	7668628	12-07910	221 W MAIN ST
WATER	Residential	7668665	03-13831	202 W MAIN 202
WATER	Commercial	7668666	13-06005	701 N 7TH AVE
WATER	Residential	7668667	03-11702	313 N 8TH AVE
WATER	Residential	07722470	12-03205	N 6TH AVE
WATER	Residential	7800534	05-05900	404 W LA ST
WATER	Residential	7800538	11-00110	723 MARTIN L KING JR AVE
WATER	Residential	7800541	13-06000	118 HEARTLAND WAY
WATER	Residential	7800542	10-03520	1267 ASPEN LANE
WATER	Residential	7800544	05-08055	513 W MAIN ST
WATER	Residential	7800547	05-03330	801 N 9TH AVE
WATER	Residential	7800549	09-09351	704 OAK FOREST DR
WATER	Residential	7800550	12-04316	117 N 7TH AVE 202
WATER	Residential	7800551	07-11601	324 S 7TH AVE
WATER	Residential	7800552	07-06419	132 W GRAPEFRUIT ST
WATER	Residential	7800553	12-04401	117 N 7TH AVE
WATER	Residential	8214473	13-03502	324 N 6TH AVE
WATER	Residential	8214477	09-03305	611 W BAY ST
WATER	Residential	8214480	02-01100	114 N 2ND AVE
WATER	Residential	8214482	02-07210	310 N SHELTON AVE

WATER	Residential	8216977	03-04801	615 N 7TH AVE
WATER	Residential	8216992	03-12105	301 N 8TH AVE BACK
WATER	Residential	8217621	09-01500	421 S 11TH AVE
WATER	Residential	8217628	07-17501	1040 MAKOWSKI RD 16
WATER	Residential	8226413	03-08301	212 GOOLSBY ST
WATER	Residential	8226433	02-02951	210 N 1ST AVE
WATER	Residential	8226520	10-03980	1321 LISA DR
WATER	Residential	8226522	07-12301	220 S 7TH AVE
WATER	Residential	8226541	07-16803	1030 MAKOWSKI RD 17
WATER	Residential	8226598	09-02620	602 W HIGH ST
WATER	Residential	8226605	08-02100	515 S 8TH AVE
WATER	Residential	8226608	09-02607	420 S 11TH AVE
WATER	Residential	8226609	06-03300	712 W PALMETTO ST
WATER	Residential	8226627	02-00950	407 E MAIN ST
WATER	Residential	8254183	10-03560	1227 ASPEN LANE
WATER	Commercial	8254184	13-08150	405 N 8TH AVE
WATER	Residential	8257701	05-10411	701 N FL AVE
WATER	Residential	8279744	12-05710	414 W MAIN ST
WATER	Residential	8303462	08-12600	403 S 9TH AVE
WATER	Residential	8303463	07-06415	136 W GRAPEFRUIT ST
WATER	Residential	8303464	14-04600	220-222 S 6TH AVE
WATER	Residential	8310321	14-04105	317 S 7TH AVE
WATER	Residential	8310918	05-09530	812 N FL AVE B
WATER	Residential	8310953	02-07230	307 N SHELTON AVE
WATER	Residential	8317333	09-01100	401 S 11TH AVE
WATER	Residential	8317387	10-05350	388 CIRCLE DR
WATER	Residential	8317388	03-11401	409 N 8TH AVE
WATER	Residential	8325084	10-05360	1418 LISA DR
WATER	Residential	8325168	11-10494	1006 N 8TH AVE
WATER	Residential	8325175	10-05300	478 CIRCLE DR
WATER	Residential	8325177	02-11500	401 HEARD BRIDGE RD
WATER	Residential	8339374	07-18902	1050 MAKOWSKI RD 3
WATER	Residential	8339376	03-10903	517 N 8TH AVE
WATER	Residential	8339392	08-01800	407 S 8TH AVE
WATER	Residential	8372462	03-05200	601 N 7TH AVE
WATER	Residential	8372464	01-06701	106 INGLIS WAY
WATER	Residential	8376454	04-01100	314 N 4TH AVE
WATER	Residential	8376455	04-00995	205 E TOWNSEND ST
WATER	Residential	8376574	02-00975	409 E MAIN ST
WATER	Residential	8378747	07-17103	1030 MAKOWSKI RD 22
WATER	Residential	8379740	08-13300	408 S 9TH AVE
WATER	Residential	8379746	03-07900	504 N 8TH AVE
WATER	Residential	8379749	13-06502	517 N 6TH AVE
WATER	Residential	8379752	07-11803	316 S 7TH AVE
WATER	Residential	8388563	08-01200	307 S 8TH AVE
WATER	Residential	8388590	06-12100	217 IL AVE
WATER	Residential	8388591	08-01601	321 S 8TH AVE

WATER	Residential	8388643	11-21723	1020 S 9TH AVE 6
WATER	Residential	8388646	12-10300	115 S 7TH AVE
WATER	Residential	8388648	08-14700	321 S 10TH AVE
WATER	Residential	8388652	09-00140	314 S 10TH AVE
WATER	Residential	8406100	14-03440	906 S 6TH AVE
WATER	Residential	8441062	08-10600	516 S 8TH AVE
WATER	Residential	8441064	14-04090	402 S 6TH AVE
WATER	Residential	8441065	12-06080	501 W MAIN ST
WATER	Residential	8441071	12-12090	17 E MAIN ST & HWY S
WATER	Residential	8441094	06-12901	908 W MAIN ST
WATER	Residential	8441130	05-00100	212 N 9TH AVE
WATER	Residential	8441132	09-00130	318 S 10TH AVE
WATER	Residential	8441133	08-00900	208 W BAY ST
WATER	Residential	8441180	06-10300	501 IL AVE
WATER	Residential	8441185	06-10700	901 W LA ST
WATER	Residential	8441323	08-10651	508 S 8TH AVE
WATER	Residential	8446602	05-06397	317 N 10TH AVE
WATER	Residential	8446603	05-07600	207 N 10TH AVE
WATER	Residential	8446605	05-07300	219 N 10TH AVE
WATER	Residential	8446607	09-09313	705 OAK FOREST DR
WATER	Residential	8449555	05-09903	826 N FL AVE
WATER	Residential	8449559	01-06465	114 INGLIS WAY
WATER	Residential	8449585	13-01850	333 N TURNER AVE
WATER	Residential	8449588	06-07800	217 N PA AVE
WATER	Residential	8449591	14-09251	1643 STENSTROM RD
WATER	Residential	8449593	10-03280	1087 MAGNOLIA LN
WATER	Residential	8449596	09-09324	711 OAK FOREST DR
WATER	Residential	8471889	07-18708	1050 MAKOWSKI RD 6
WATER	Residential	8471890	06-03100	118 N PA AVE
WATER	Residential	8471918	04-00135	717 E OAK ST
WATER	Residential	8471920	04-00130	715 E OAK ST
WATER	Residential	8473527	09-08402	816 HAWAIIAN DR
WATER	Residential	8511231	09-09333	718 OAK FOREST DR
WATER	Residential	8511232	06-12600	117 IL AVE
WATER	Residential	8511248	02-04001	301 N DIANA AVE
WATER	Residential	8511264	06-03201	709 W PALMETTO ST
WATER	Residential	8511274	08-12507	317 S 9TH AVE
WATER	Residential	8511312	05-10602	605 N FL AVE
WATER	Residential	8511317	02-05600	304 N TURNER AVE
WATER	Residential	8511321	01-06300	817 E MAIN ST 2C
WATER	Residential	8511357	07-18002	1040 MAKOWSKI RD 12
WATER	Residential	8511362	01-16303	411 E ORANGE ST
WATER	Residential	8511363	14-08110	1002 S FL AVE
WATER	Residential	8511364	01-15800	409 E BAY ST
WATER	Residential	8511383	07-05310	405 S 7TH AVE
WATER	Residential	8511385	12-05800	528 W MAIN ST
WATER	Residential	8511386	08-12723	517 S 9TH AVE

WATER	Residential	8511389	07-17206	1030 MAKOWSKI RD 21
WATER	Residential	8511391	06-11800	911 W HARVEY ST
WATER	Residential	8511397	10-03301	1072 MAGNOLIA LN
WATER	Residential	8528766	14-03975	518 S 6TH AVE
WATER	Residential	8528854	02-01350	609 E MAIN ST
WATER	Residential	8528857	04-01050	322 N 4TH AVE
WATER	Residential	8528858	14-07280	1052 DOWNING CIR
WATER	Residential	8528885	01-15506	507 E BAY ST
WATER	Residential	8528886	09-07700	804 KOHALA DR
WATER	Residential	8529021	11-21554	1011 S 9TH AVE 5
WATER	Residential	8529026	11-21621	1021 S 9TH AVE 10
WATER	Commercial	8533465	13-07150	316 N 7TH AVE
WATER	Residential	8533474	10-03730	711 HANCHEY RD
WATER	Commercial	8533503	13-08400	204 N 9TH AVE
WATER	Residential	8533510	05-06000	407 W LA ST
WATER	Residential	8533595	08-12200	207 S 9TH AVE
WATER	Residential	8533596	01-14400	503 E ORANGE ST
WATER	Residential	8533599	09-01305	411 S 11TH AVE
WATER	Residential	8533608	06-11402	910 W HARVEY ST
WATER	Residential	8533611	08-11004	322 S 8TH AVE
WATER	Residential	8533612	12-02501	111 E MAIN ST
WATER	Residential	8533651	01-07401	111 S 1ST AVE
WATER	Residential	8533652	04-00060	702 E OAK ST
WATER	Residential	8533677	10-05356	348 CIRCLE DR
WATER	Residential	8533678	11-11108	183 DAVIS COURT
WATER	Residential	8565336	03-02500	412 N 7TH AVE
WATER	Residential	8565464	14-03070	1109-1111 S 6TH AVE
WATER	Residential	8565465	05-04600	315 N 9TH AVE
WATER	Residential	8565468	13-04901	752 N 6TH AVE
WATER	Residential	8565469	11-21549	1009 S 9TH AVE 4
WATER	Residential	8565472	13-05020	1115 HWY 17 N
WATER	Residential	8565577	01-14200	516 E ORANGE ST
WATER	Residential	8571632	07-16908	1030 MAKOWSKI RD 19
WATER	Residential	8571637	03-09900	803 N 8TH AVE
WATER	Residential	8571665	05-03603	701 N 9TH AVE
WATER	Residential	8571667	12-07420	908 S 8TH AVE
WATER	Commercial	8571757	13-07110	315 N 6TH AVE
WATER	Residential	8571864	06-03801	226 N PA AVE
WATER	Residential	8585471	13-07201	305 N 6TH AVE
WATER	Residential	8621111	09-01001	510 W HIGH ST
WATER	Residential	8621260	09-06080	741 SANDPIPER DR 62
WATER	Residential	8621302	12-04250	131 N 7TH AVE
WATER	Residential	8621303	08-12714	513 S 9TH AVE
WATER	Residential	8621305	11-11011	192 MYRTLE ST
WATER	Residential	8621326	02-02650	302 N DIANA AVE
WATER	Residential	8621327	11-22931	1169 DOWNING CIR
WATER	Residential	8621356	08-01000	209 W BAY ST

WATER	Residential	8624558	02-09810	408 HEARD BRIDGE RD
WATER	Residential	8624641	03-08796	616 N 8TH AVE
WATER	Residential	8624642	07-14603	125 CARLTON ST 44
WATER	Residential	8624643	07-06740	309 CARLTON ST 3
WATER	Residential	8624648	10-03252	1059 MAGNOLIA LN
WATER	Residential	8624651	06-04200	708 W LA ST
WATER	Commercial	8624674	13-05585	202 BELL ST (&204-DUPLEX
WATER	Residential	8624829	01-18400	307 E BAY ST
WATER	Residential	8630731	14-09305	770 RECREATION COMPLEX
WATER	Residential	8709344	08-00603	211 S 8TH AVE
WATER	Residential	8709347	14-02802	903 S 6TH AVE
WATER	Residential	8709388	11-23071	1114 DOWNING CIR
WATER	Residential	8709434	13-08130	301 N 7TH AVE
WATER	Residential	8709436	13-08140	301 N 7TH AVE
WATER	Residential	8709524	04-00005	827 E OAK ST
WATER	Residential	8709525	01-17810	109 S 3RD AVE
WATER	Residential	8709528	02-11200	415 HEARD BRIDGE RD
WATER	Residential	8716360	07-14712	125 CARLTON ST 43
WATER	Residential	8716394	09-00300	514 W BAY ST
WATER	Residential	8716395	13-06909	317 N 6TH AVE
WATER	Residential	8716397	05-10420	606 W TN ST
WATER	Residential	8716428	05-01702	312 W GA ST
WATER	Residential	8716431	01-06812	102 INGLIS WAY
WATER	Residential	8716432	11-13850	245 GEORGETOWN LOOP
WATER	Residential	8716454	11-22950	1189 DOWNING CIR
WATER	Residential	8716457	13-02101	203B E TOWNSEND ST
WATER	Residential	8716458	11-22920	1165 DOWNING CIR
WATER	Residential	8742813	05-01104	420 N 9TH AVE
WATER	Residential	8742815	09-07500	811 HONOLULU DR
WATER	Residential	8742817	14-04065	408 S 6TH AVE
WATER	Residential	8742819	14-04068	406 S 6TH AVE
WATER	Residential	8742827	10-03515	1262 ASPEN LANE
WATER	Residential	8742857	14-07450	417 CARLTON ST
WATER	Residential	8806663	09-09102	609 HAWAIIAN DR
WATER	Residential	8806665	06-13200	119 N OH AVE
WATER	Residential	8806666	09-06300	804 S FL AVE
WATER	Residential	8806667	10-03990	1329 LISA DR
WATER	Commercial	8806668	12-06285	411 W ORANGE ST
WATER	Residential	8811420	08-13200	621 S 9TH AVE
WATER	Residential	8811421	07-06766	309 CARLTON ST 6
WATER	Residential	8811425	12-02910	101 E MAIN ST
WATER	Residential	8811427	02-02400	618 E OAK ST
WATER	Residential	8811431	10-04210	1353 LISA DR
WATER	Residential	8813995	11-22800	1152 DOWNING CIR
WATER	Residential	8814073	12-04310	123 N 7TH AVE
WATER	Residential	8817148	09-05631	702 SANDPIPER DR 4
WATER	Residential	8817151	11-13885	214 GEORGETOWN LOOP

WATER	Residential	8817152	05-00501	310 N 9TH AVE
WATER	Residential	8817153	11-22710	1190 DOWNING CIR
WATER	Residential	8817263	05-03190	417 BELL ST
WATER	Residential	8817264	04-00110	707 E OAK ST
WATER	Residential	8830383	11-23050	1121 DOWNING CIR
WATER	Residential	8830447	09-09312	703 OAK FOREST DR
WATER	Residential	8832378	02-00225	105 N 3RD AVE B101
WATER	Residential	8841393	09-07201	812 AVENTINA AVE
WATER	Residential	8842466	10-05301	463 CIRCLE DR
WATER	Residential	8842467	10-03370	1098 KNOLLWOOD CIR
WATER	Residential	8842469	07-19204	1050 MAKOWSKI RD 2
WATER	Residential	9120360	06-01760	309 N IN AVE
WATER	Residential	9120361	06-00660	611 W HARVEY ST
WATER	Residential	9120362	06-01771	305 N IN AVE
WATER	Residential	9120363	06-00600	218 N IN AVE
WATER	Residential	9120365	06-01750	313 N IN AVE
WATER	Residential	9120366	06-01800	229 N IN AVE
WATER	Residential	9509920	07-06450	112 W GRAPEFRUIT ST
WATER	Residential	9683340	05-07702	205 N 10TH AVE (HOUSE) HOUSE
WATER	Residential	9683341	05-06100	404 N 10TH AVE
WATER	Residential	9683343	07-13512	135 CARLTON ST 53
WATER	Residential	9683344	11-11201	529 POLK RD
WATER	Residential	9683345	07-10003	708 SEMINOLE ST
WATER	Residential	9683346	01-06323	817 E MAIN ST 3B
WATER	Residential	9683347	10-07489	289 HIDDEN CREEK CIR
WATER	Residential	9683348	10-07489	289 HIDDEN CREEK CIR
WATER	Residential	9683349	06-00150	114 N IN AVE
WATER	Residential	9683350	06-02850	620 W MAIN ST
WATER	Residential	9683353	06-01273	902 W TN ST
WATER	Residential	9683354	06-00120	110 IN AVE
WATER	Residential	9683355	06-00700	310 N IN AVE
WATER	Residential	9683356	06-01265	721 N PA AVE
WATER	Residential	9683357	06-01269	708 IL AVE
WATER	Residential	9683358	06-01230	706 W TN ST
WATER	Residential	9683359	06-00800	612 W LA ST
WATER	Residential	9683360	01-11000	414 S TULANE AVE
WATER	Residential	9683363	06-01266	705 N PA AVE
WATER	Residential	9683364	06-00750	314 N IN AVE
WATER	Residential	9683365	06-01795	301 N IN AVE
WATER	Residential	9683366	11-08500	204 RIVERSIDE DR
WATER	Residential	9683367	09-09226	706 CROSBY LN
WATER	Residential	9683368	10-07152	1451 W LA ST
WATER	Residential	9683369	01-07500	117 S 1ST AVE
WATER	Residential	9683370	11-07250	306 RIVERSIDE DR
WATER	Residential	9683371	09-00060	426 S 10TH AVE A
WATER	Residential	9683372	11-09845	312 PARK DR
WATER	Residential	9683373	11-04000	201 RIVERSIDE DR

WATER	Residential	9683374	09-06035	751 SANDPIPER DR 57
WATER	Residential	9683375	14-08710	218 HANCHEY RD
WATER	Commercial	9683376	14-07500	807 S 8TH AVE
WATER	Residential	9816212	11-09990	220 PARK DR
WATER	Residential	9816217	11-05000	221 RIVERSIDE DR
WATER	Residential	9816219	07-20007	635 S 5TH AVE A108
WATER	Residential	9816221	11-09932	316 GARDEN DR
WATER	Residential	9964862	08-10500	604 S 8TH AVE
WATER	Residential	9964864	12-08005	209 W MAIN ST HERITAGE
WATER	Residential	9964865	07-20066	635 S 5TH AVE E103
WATER	Residential	9964866	01-06263	817 E MAIN ST 1E
WATER	Commercial	9964871	13-07025	315 N 6TH AVE
WATER	Residential	9964873	11-10558	302 BELL ST
WATER	Residential	9975659	01-18550	206 E BAY ST
WATER	Residential	9975660	07-16303	1020 MAKOWSKI RD 32
WATER	Residential	9975661	12-05725	424 W MAIN ST
WATER	Residential	9975663	04-00895	700 E TOWNSEND ST 34
WATER	Residential	9975664	10-03285	1097 MAGNOLIA LN
WATER	Residential	9975665	10-03161	1042 MAGNOLIA LN
WATER	Residential	9975668	03-08240	207 GOOLSBY ST
WATER	Residential	9975669	09-00250	513 W ORANGE ST
WATER	Residential	10022168	05-00600	312 N 9TH AVE
WATER	Residential	10022171	05-11205	315 N FL AVE
WATER	Residential	10022172	09-03600	411 S FL AVE
WATER	Residential	10022174	12-05000	214-216 W MAIN ST
WATER	Residential	10022175	12-02200	110 N 6TH AVE
WATER	Residential	10022178	02-00450	105 N 3RD AVE C101
WATER	Residential	10022179	07-20039	635 S 5TH AVE C108
WATER	Residential	10036761	07-17305	1030 MAKOWSKI RD 23
WATER	Residential	10036763	05-12304	203 N FL AVE
WATER	Residential	10036770	11-06800	325 PARK DR
WATER	Residential	10036772	11-21411	1130 HUSS RD
WATER	Residential	10036777	10-03705	848 PIERCE RD
WATER	Residential	10036779	10-03360	1090 KNOLLWOOD CIR
WATER	Residential	10036780	11-10300	874 HEARD BRIDGE RD
WATER	Residential	10036782	11-09820	324 PARK DR
WATER	Residential	10036784	11-06100	317 RIVERSIDE DR
WATER	Residential	10036785	11-07222	312 RIVERSIDE DR
WATER	Residential	10036786	11-06700	335 RIVERSIDE DR
WATER	Residential	10036788	14-04000	1104 S 6TH AVE
WATER	Residential	10036790	01-12810	306 S WALTON AVE
WATER	Residential	10036791	11-13895	194 GEORGETOWN LOOP
WATER	Residential	10036792	02-05105	326 N TURNER AVE
WATER	Residential	10036793	11-09100	217 PARK DR
WATER	Residential	10036796	11-09401	305 PARK DR
WATER	Residential	10036798	11-09575	311 PARK DR
WATER	Residential	10036800	11-09840	316 PARK DR

WATER	Residential	10036801	11-09910	305 GARDEN DR
WATER	Residential	10036804	11-05600	307 RIVERSIDE DR
WATER	Residential	10057405	04-00255	368 RIVERCHASE CIR
WATER	Residential	10057406	04-00805	700 E TOWNSEND ST 17
WATER	Residential	10057411	07-20070	635 S 5TH AVE E107
WATER	Residential	10057412	05-10800	409 N FL AVE
WATER	Commercial	10057416	13-08600	311 GOOLSBY ST
WATER	Residential	10057417	02-00175	303 E MAIN ST
WATER	Residential	10057418	07-17412	1030 MAKOWSKI RD 24
WATER	Residential	10057419	12-07000	303 W MAIN ST STE 1
WATER	Residential	10057421	05-08800	618 N FL AVE
WATER	Residential	10057422	02-07310	214 N 3RD AVE
WATER	Residential	10057423	05-10210	807 N FL AVE
WATER	Residential	10057426	03-12120	305 W OAK ST
WATER	Residential	10076945	11-11154	1270 KELLY CT
WATER	Residential	10076946	07-20022	635 S 5TH AVE B107
WATER	Residential	10076948	10-01100	156 HANCHEY RD
WATER	Residential	10076949	02-07160	317 N SHELTON AVE
WATER	Residential	10076951	04-00150	723 E OAK ST
WATER	Residential	10076953	03-12900	205 N 8TH AVE 6
WATER	Residential	10076955	09-00090	414 S 10TH AVE
WATER	Residential	10076956	07-20014	635 S 5TH AVE A207
WATER	Residential	10095074	08-11204	312 S 8TH AVE
WATER	Residential	10095075	02-06100	202 N 2ND AVE
WATER	Residential	10095077	11-22741	1176 DOWNING CIR
WATER	Residential	10095081	11-22731	1180 DOWNING CIR
WATER	Residential	10095089	10-06439	1510 BURTON ST
WATER	Residential	10095090	07-10111	618 S 7TH AVE
WATER	Residential	10095094	13-00631	213 E ORANGE ST
WATER	Residential	10095095	01-15400	501 E BAY ST
WATER	Residential	10095097	07-20012	635 S 5TH AVE A205
WATER	Residential	10095098	07-20003	635 S 5TH AVE A104
WATER	Residential	10095099	10-07460	1284 W LA ST
WATER	Residential	10095101	11-09965	306 GARDEN DR
WATER	Residential	10095102	11-04403	209 RIVERSIDE DR
WATER	Residential	10095105	01-15633	210 S 3RD AVE
WATER	Residential	10095106	08-14200	212 S 9TH AVE
WATER	Residential	10095107	14-03130	1125 S 6TH AVE
WATER	Residential	10095110	14-03310	1000 S 6TH AVE
WATER	Residential	10095112	10-04800	1435 LISA DR
WATER	Residential	10095115	05-03280	406 POLK RD
WATER	Residential	10095116	11-09835	318 PARK DR
WATER	Residential	10095118	11-09865	302 PARK DR
WATER	Residential	10095122	11-21250	1110 HUSS RD
WATER	Residential	10095123	03-08902	704 N 8TH AVE
WATER	Residential	10095126	03-10000	801 N 8TH AVE
WATER	Residential	10095127	09-09309	701 OAK FOREST DR

WATER	Residential	10095129	04-00095	371 EASON DR
WATER	Residential	10230832	09-08300	812 HAWAIIAN DR
WATER	Residential	10478132	11-09800	319 PARK DR
WATER	Commercial	10478133	12-14815	502 MARTIN L KING JR AVE
WATER	Residential	10478135	08-03114	306 W LANE ST
WATER	Residential	10478137	11-02710	818 E BAY ST
WATER	Residential	10478138	01-11500	407 S WALTON AVE
WATER	Residential	10478139	01-11400	401 S WALTON AVE
WATER	Residential	10478143	04-00065	704 E OAK ST
WATER	Residential	10478144	11-01007	358 MARTIN L KING JR AVE
WATER	Residential	10478145	01-08400	701 E GREEN ST
WATER	Residential	10478147	01-07700	611 E GREEN ST
WATER	Residential	10478148	01-13740	617 E SUMMIT ST
WATER	Residential	10478149	01-13721	613 E SUMMIT ST
WATER	Residential	10478150	11-02180	339 MARTIN L KING JR AVE
WATER	Residential	10478151	11-01050	404 S WI AVE
WATER	Residential	10478153	01-13730	615 E SUMMIT ST
WATER	Residential	10478154	01-08748	205 S WALTON AVE
WATER	Residential	10478155	01-09010	606 E GREEN ST
WATER	Residential	10478157	01-11900	412 S WALTON AVE
WATER	Residential	10478158	01-07800	615 E GREEN ST
WATER	Residential	10478159	07-20045	635 S 5TH AVE C206
WATER	Residential	10478160	01-08006	623 E GREEN ST
WATER	Commercial	10478161	14-08185	412 S FL AVE
WATER	Residential	10478164	01-11650	411 S WALTON AVE
WATER	Residential	10478165	01-09001	612 E GREEN ST
WATER	Residential	10478166	01-11602	409 S WALTON AVE
WATER	Residential	10478167	01-11701	417 S WALTON AVE
WATER	Commercial	10500385	14-07575	505 S 10TH AVE
WATER	Residential	10500386	09-00040	428 S 10TH AVE
WATER	Residential	10500387	09-00030	501 CONSTITUTION DR
WATER	Residential	10500391	09-01905	511 PEACE DR
WATER	Residential	10500392	08-06600	408 PEACE DR
WATER	Residential	10500393	09-01920	520 S 11TH AVE
WATER	Residential	10500394	09-04601	701 S FL AVE
WATER	Residential	10500395	08-06501	404 PEACE DR
WATER	Residential	10500396	09-01915	604 PEACE DR
WATER	Residential	10500397	08-09600	323 W MELENDY ST
WATER	Residential	10500398	08-09850	320 W MELENDY ST
WATER	Residential	10500399	08-09855	640 S 8TH AVE
WATER	Residential	10500400	08-09420	403 W MELENDY ST
WATER	Residential	10500401	08-13220	627 S 9TH AVE
WATER	Residential	10500402	08-09700	319 W MELENDY ST
WATER	Residential	10500403	08-09110	601 S 10TH AVE
WATER	Residential	10500404	08-08900	605 S 10TH AVE
WATER	Residential	10500405	08-08500	802 S 10TH AVE
WATER	Residential	10500406	08-08800	606 S 10TH AVE

WATER	Residential	10500407	08-08707	608 S 10TH AVE
WATER	Residential	10500408	08-08700	414 PEACE DR
WATER	Residential	10500412	09-00035	507 CONSTITUTION DR
WATER	Residential	10500413	09-01700	501 S 11TH AVE
WATER	Residential	10500420	08-07800	902 S 10TH AVE
WATER	Residential	10500424	08-07400	825 S 10TH AVE
WATER	Residential	10500425	08-07201	817 S 10TH AVE
WATER	Residential	10500426	08-05906	814 S 9TH AVE
WATER	Residential	10500427	08-03400	907 S 8TH AVE
WATER	Residential	10500428	08-03602	902 S 8TH AVE
WATER	Residential	10500429	08-09800	702 S 8TH AVE
WATER	Residential	10500432	08-03300	901 S 8TH AVE
WATER	Residential	10500434	09-04911	821 S FL AVE
WATER	Residential	10500436	08-08200	820 S 10TH AVE
WATER	Residential	10500438	08-08400	808 S 10TH AVE
WATER	Residential	10500439	08-09300	407 W MELENDY ST
WATER	Residential	10500441	08-09209	411 W MELENDY ST
WATER	Residential	10500443	08-04629	302 PEACE DR
WATER	Residential	10500445	09-02500	424 S 11TH AVE
WATER	Residential	10500447	08-08600	509 PEACE DR
WATER	Residential	10500449	09-01909	513 PEACE DR
WATER	Residential	10500450	09-01912	607 PEACE DR
WATER	Residential	10500451	09-05600	519 W EDDY ST
WATER	Residential	10500452	09-05201	520 W EDDY ST
WATER	Residential	10500453	09-05300	516 W EDDY ST
WATER	Residential	10500455	08-07900	828 S 10TH AVE
WATER	Residential	10500456	09-05401	512 W EDDY ST
WATER	Residential	10500458	08-03612	417 W EDDY ST
WATER	Residential	10500459	08-03604	904 S 8TH AVE
WATER	Residential	10500460	08-03606	411 W EDDY ST
WATER	Residential	10500461	08-03608	413 W EDDY ST
WATER	Residential	10500462	08-03614	421 W EDDY ST
WATER	Residential	10500466	08-04405	806 S 8TH AVE
WATER	Residential	10500468	08-04201	810 S 8TH AVE
WATER	Residential	10500469	07-09650	713 SEMINOLE ST
WATER	Residential	10500471	07-08902	208 W STRICKLAND ST
WATER	Residential	10500473	12-06922	101 S 9TH AVE
WATER	Residential	10500474	07-08700	205 W STRICKLAND ST
WATER	Residential	10500475	12-06914	105 S 9TH AVE
WATER	Residential	10500478	07-10000	710 SEMINOLE ST
WATER	Residential	10500479	07-09710	717 SEMINOLE ST
WATER	Residential	10500480	07-09900	714 SEMINOLE ST
WATER	Residential	10500481	08-06400	804 S 9TH AVE
WATER	Residential	10500482	08-04600	802 S 8TH AVE
WATER	Residential	10500484	08-06700	801 S 10TH AVE
WATER	Residential	10500485	08-04512	804 S 8TH AVE
WATER	Residential	10500487	08-05700	818 S 9TH AVE

WATER	Residential	10500489	08-03620	427 W EDDY ST
WATER	Residential	10500490	08-03618	425 W EDDY ST
WATER	Residential	10500491	08-05600	820 S 9TH AVE
WATER	Residential	10500492	08-03616	423 W EDDY ST
WATER	Residential	10500493	07-07011	910 SEMINOLE ST
WATER	Residential	10500495	07-07100	908 SEMINOLE ST
WATER	Residential	10500496	07-07300	907 SEMINOLE ST
WATER	Residential	10500498	08-03200	902 SEMINOLE ST
WATER	Residential	10500499	08-06300	806 S 9TH AVE
WATER	Residential	10500500	08-06200	808 S 9TH AVE
WATER	Residential	10500501	08-06900	809 S 10TH AVE
WATER	Residential	10500502	08-07000	811 S 10TH AVE
WATER	Residential	10500507	07-08502	808 S 7TH AVE
WATER	Residential	10500508	07-08400	810 S 7TH AVE
WATER	Residential	10500509	07-08600	804 S 7TH AVE
WATER	Residential	10500510	07-09018	722 S 7TH AVE
WATER	Residential	10500511	08-02800	802 SEMINOLE ST
WATER	Residential	10500512	07-10011	702 SEMINOLE ST
WATER	Residential	10500514	07-09400	702 S 7TH AVE
WATER	Residential	10500516	08-02900	806 SEMINOLE ST
WATER	Residential	10500518	07-07800	916 S 7TH AVE
WATER	Residential	10500519	07-08100	902 S 7TH AVE
WATER	Residential	10500522	07-07900	912 S 7TH AVE
WATER	Residential	10500523	08-03800	828 S 8TH AVE
WATER	Residential	10500526	08-05103	811 S 9TH AVE
WATER	Residential	10500532	07-09100	716 S 7TH AVE
WATER	Residential	10500533	07-05800	701 S 7TH AVE
WATER	Residential	10500757	08-03610	415 W EDDY ST
WATER	Residential	10580433	08-08002	824 S 10TH AVE
WATER	Residential	10598682	01-10500	311 S WALTON AVE
WATER	Residential	10598683	01-08900	620 E GREEN ST
WATER	Residential	10598684	11-09880	303 GARDEN DR
WATER	Residential	10598686	01-11810	619 E SUMMIT ST
WATER	Residential	10598687	13-00875	713 E BAY ST
WATER	Residential	10598688	01-12000	402 S WALTON AVE
WATER	Residential	10598689	01-10953	418 S TULANE AVE
WATER	Residential	10598690	01-12807	314 S WALTON AVE
WATER	Residential	10598693	01-08620	715 E GREEN ST
WATER	Residential	10598694	01-08511	709 E GREEN ST
WATER	Residential	10598695	01-08641	719 E GREEN ST
WATER	Residential	10598696	11-20800	1140 S FL AVE
WATER	Residential	10598697	01-07600	605 E GREEN ST
WATER	Residential	10598698	01-08631	717 E GREEN ST
WATER	Residential	10598699	01-08721	704 E GREEN ST
WATER	Residential	10598700	01-08157	627 E GREEN ST
WATER	Residential	10598701	01-08610	713 E GREEN ST
WATER	Residential	10598702	01-08651	721 E GREEN ST

WATER	Residential	10598703	01-08810	624 E GREEN ST
WATER	Residential	10598704	01-08704	708 E GREEN ST
WATER	Residential	10598706	01-13700	609 E SUMMIT ST
WATER	Residential	10598707	01-08304	639 E GREEN ST
WATER	Residential	10598709	01-13710	611 E SUMMIT
WATER	Residential	10598710	11-02175	347 MARTIN L KING JR AVE
WATER	Residential	10598713	11-00511	306 MARTIN L KING JR AVE
WATER	Residential	10598716	11-02185	331 MARTIN L KING JR AVE
WATER	Residential	10598717	11-02460	305 MARTIN L KING JR AVE
WATER	Residential	10598718	13-00900	725 E GREEN ST
WATER	Residential	10598719	01-08606	711 E GREEN ST
WATER	Residential	10598720	01-11708	703 E SUMMIT ST
WATER	Residential	10675453	04-01233	827 E OAK ST 102
WATER	Residential	10675454	01-08500	707 E GREEN ST
WATER	Residential	10675455	04-01232	827 E OAK ST 103
WATER	Commercial	10675456	12-14889	440 CARLTON ST
WATER	Residential	10675459	07-16404	1020 MAKOWSKI RD 31
WATER	Residential	10675460	11-09930	315 GARDEN DR
WATER	Residential	10675461	04-01235	827 E OAK ST 104
WATER	Residential	10675463	11-07900	216 RIVERSIDE DR
WATER	Residential	10675465	04-00120	711 E OAK ST
WATER	Residential	10675466	04-00855	700 E TOWNSEND ST 26
WATER	Residential	10675469	11-09955	325 GARDEN DR
WATER	Residential	10675470	11-07230	310 RIVERSIDE DR
WATER	Residential	10675471	02-07220	311 N SHELTON AVE
WATER	Residential	10675472	07-20083	635 S 5TH AVE F104
WATER	Residential	10675473	04-01234	827 E OAK ST 101
WATER	Residential	10675474	03-09630	310 POLK RD
WATER	Residential	10675478	05-12901	103 N FL AVE
WATER	Residential	10675481	11-04900	219 RIVERSIDE DR
WATER	Residential	10675482	05-00411	312 W OAK ST
WATER	Residential	10675483	11-09300	223 PARK DR
WATER	Residential	10675484	07-20076	635 S 5TH AVE E205
WATER	Residential	10675485	07-20000	635 S 5TH AVE A101
WATER	Residential	10733454	02-06016	509 E PALMETTO ST
WATER	Residential	10733457	11-11155	1382 N FL AVE
WATER	Residential	10733458	03-04708	214 W TOWNSEND ST
WATER	Residential	10733461	09-09000	705 HAWAIIAN DR
WATER	Residential	10733462	09-07800	711 HONOLULU DR
WATER	Residential	10733463	11-21200	1125 S FL AVE
WATER	Residential	10733464	01-18300	114 S 4TH AVE
WATER	Residential	10733465	01-08716	202 S WALTON AVE
WATER	Residential	10733466	08-12520	321 S 9TH AVE
WATER	Residential	10733467	03-02300	404 N 7TH AVE
WATER	Residential	10733468	11-06001	315 RIVERSIDE DR
WATER	Residential	10733469	05-00450	314 W OAK ST
WATER	Residential	10733470	02-04901	334 N TURNER AVE

WATER	Residential	10733471	11-13860	279 GEORGETOWN LOOP
WATER	Residential	10733474	07-16605	1030 MAKOWSKI RD 18
WATER	Residential	10733475	01-11805	702 E SUMMIT ST
WATER	Residential	10733476	01-11302	408 S WI AVE
WATER	Residential	10733477	05-01902	504 N 9TH AVE
WATER	Residential	10733480	12-05300	230 W MAIN ST
WATER	Residential	10733481	01-07902	619 E GREEN ST
WATER	Residential	10733482	10-07695	1586 THOMPSON RD
WATER	Residential	10733483	11-10900	175 MYRTLE DR ON RIGHT
WATER	Residential	10733484	11-10921	182 MYRTLE DR
WATER	Residential	10858619	05-11400	605 W HARVEY ST
WATER	Residential	10858625	07-20096	635 S 5TH AVE G101
WATER	Residential	10862722	03-12796	205 N 8TH AVE 1
WATER	Residential	10862723	03-12800	205 N 8TH AVE 2
WATER	Residential	10862724	03-12775	207 N 8TH AVE F
WATER	Residential	10862725	03-12764	207 N 8TH AVE E
WATER	Residential	10862726	03-12960	205 N 8TH AVE 3
WATER	Residential	10862728	03-12940	205 N 8TH AVE 4
WATER	Residential	10862729	03-12920	205 N 8TH AVE 5
WATER	Residential	10862730	03-12723	207 N 8TH AVE A
WATER	Residential	10862731	03-12719	207 N 8TH AVE B
WATER	Residential	10862733	03-12201	213 N 8TH AVE
WATER	Residential	10862734	03-13850	216 N 8TH AVE 1
WATER	Residential	10862735	03-13900	216 N 8TH AVE 2
WATER	Residential	10862736	03-13950	216 N 8TH AVE 3
WATER	Residential	10862737	03-14050	211 W OAK ST 4
WATER	Residential	10862738	03-14100	211 W OAK ST 5
WATER	Residential	10862739	03-14150	211 W OAK ST 6
WATER	Residential	10862740	03-14200	211 W OAK ST 7
WATER	Residential	10862741	03-13575	120 N 8TH AVE
WATER	Residential	10862742	03-13500	201 N 8TH AVE
WATER	Residential	10862743	03-12108	301 W OAK ST
WATER	Residential	10862744	03-12110	303 W OAK ST
WATER	Residential	10862745	05-05290	411 W PALMETTO ST
WATER	Residential	10862746	05-05272	120A N 10TH AVE
WATER	Residential	10862748	05-05253	114 N 10TH AVE
WATER	Residential	10862749	05-05262	116 N 10TH AVE
WATER	Residential	10862751	09-05824	1045 MOURNING DOVE LN 23
WATER	Residential	10862752	03-13832	202 W MAIN 203
WATER	Residential	10862753	10-03290	1100 MAGNOLIA LN
WATER	Residential	10862754	14-07022	215 CARLTON ST 102
WATER	Residential	10862755	05-03145	1007 N 9TH AVE
WATER	Residential	10862757	05-05284	120B N 10TH AVE
WATER	Residential	10883744	10-07219	1227 W LA ST
WATER	Residential	10883745	06-01250	703 W KY ST
WATER	Residential	10883747	02-06500	317 N TURNER AVE
WATER	Residential	10883748	09-05700	1026 BLUE HERRON LN 11

WATER	Residential	10883749	09-05900	1051 WHOOPING CRANE 43
WATER	Residential	10883750	03-09200	716 N 8TH AVE
WATER	Residential	10883751	03-03700	917 N 7TH AVE
WATER	Residential	10883752	11-23130	1090 DOWNING CIR
WATER	Residential	10883753	05-06808	303 N 10TH AVE
WATER	Residential	10905524	11-12100	573 POLK RD
WATER	Residential	10905544	11-07703	220 RIVERSIDE DR
WATER	Residential	10957872	03-10503	310 W TOWNSEND ST
WATER	Residential	10957881	11-07313	302 RIVERSIDE DR
WATER	Residential	11039333	14-03305	1010A S 6TH AVE
WATER	Residential	11133475	11-10100	808 HEARD BRIDGE RD
WATER	Residential	11133476	10-07551	1772 DOYLE CARLTON RD
WATER	Residential	11194116	07-09720	220 W STRICKLAND ST
WATER	Residential	11194126	11-02160	365 MARTIN L KING JR AVE
WATER	Residential	11194134	08-12511	319 S 9TH AVE
WATER	Residential	11234033	07-11000	415 S 8TH AVE
WATER	Residential	11234037	11-02765	284 GRIFFIN RD
WATER	Residential	11234038	02-02660	610 E OAK ST
WATER	Residential	11411040	11-23300	1015 MAKOWSKI RD
WATER	Residential	11411041	04-02255	787 LA PLAYA DR
WATER	Residential	11411042	03-04504	715 N 7TH AVE
WATER	Residential	11411043	11-21902	1008 S 8TH AVE
WATER	Residential	11411045	11-14000	206 N OH AVE
WATER	Residential	11411048	02-03000	212 N 1ST AVE
WATER	Residential	11411053	12-00300	116 N 4TH AVE
WATER	Residential	11411057	09-05751	1033 HUMMINGBIRD LN 16
WATER	Residential	11411059	07-20015	635 S 5TH AVE A208
WATER	Residential	11411062	02-02340	706 E PALMETTO ST
WATER	Residential	11411063	10-04419	1417 LISA DR
WATER	Residential	11411064	11-07002	320 RIVERSIDE DR
WATER	Residential	11411067	07-19506	667 S 5TH AVE
WATER	Residential	11411084	03-05100	605 N 7TH AVE
WATER	Residential	11411085	11-22810	1148 DOWNING CIR
WATER	Residential	11411086	11-00520	310 MARTIN L KING JR AVE
WATER	Residential	11411087	05-12602	109 N FL AVE
WATER	Residential	11411089	03-08706	614 N 8TH AVE
WATER	Residential	11411093	07-10101	620 S 7TH AVE
WATER	Residential	11411094	11-09977	260 GARDEN DR
WATER	Residential	11411098	11-10010	216 PARK DR
WATER	Residential	11411100	02-00100	121 N 4TH AVE
WATER	Residential	11411107	10-07454	1485 W LA ST
WATER	Residential	11411108	10-07700	1543 STENSTROM RD
WATER	Residential	11411109	12-10105	203 S 7TH AVE
WATER	Residential	11411111	11-21230	1075 HUSS RD
WATER	Residential	11539828	01-07300	107 S 1ST AVE
WATER	Residential	11539829	11-11157	1396 N FL AVE
WATER	Residential	11539830	01-13215	606B E BAY ST

WATER	Residential	11539831	05-03100	814 N 9TH AVE
WATER	Residential	11539832	07-07500	915 SEMINOLE ST
WATER	Residential	11539836	05-03160	311 BELL ST
WATER	Residential	11539837	09-05761	1032 HUMMINGBIRD LN 17
WATER	Residential	11539843	07-09600	711 SEMINOLE ST
WATER	Residential	11539844	11-02480	301 MARTIN L KING JR AVE
WATER	Residential	11539847	02-09803	326 HEARD BRIDGE RD
WATER	Residential	11539853	01-13814	501 S 1ST AVE
WATER	Residential	11539854	01-14102	214 S 1ST AVE
WATER	Residential	11539856	01-13600	415 S 1ST AVE
WATER	Residential	11539857	09-09342	810 SHADY NOOK CIR
WATER	Residential	11539858	11-05400	303 RIVERSIDE DR
WATER	Residential	11539859	07-06230	118 W HOGAN ST
WATER	Residential	11539862	07-14307	135 CARLTON ST 48
WATER	Residential	11539864	11-08600	115 PARK DR
WATER	Residential	11539866	10-07041	1006 BRIARWOOD DR
WATER	Residential	11539867	11-21530	1007 S 9TH AVE 3
WATER	Residential	11539870	12-14725	106 S 4TH AVE
WATER	Residential	11539871	08-13600	314 S 9TH AVE B
WATER	Residential	11539872	10-07456	363 HIDDEN CREEK CIR
WATER	Residential	11539873	02-01525	110 N RUST AVE
WATER	Residential	11539874	01-15900	210 S 2ND AVE
WATER	Residential	11539876	01-13187	608A E BAY ST
WATER	Residential	11539877	13-09202	212 N FL AVE
WATER	Residential	11539878	01-13266	602B E BAY ST
WATER	Residential	11539879	14-04024	512 S 6TH AVE
WATER	Residential	11539880	03-09100	712 N 8TH AVE
WATER	Residential	11539881	01-13253	602A E BAY ST
WATER	Residential	11539882	10-02750	479 HANCHEY RD
WATER	Residential	11539884	09-03212	225 S FL AVE
WATER	Residential	11539885	08-11100	316 S 8TH AVE
WATER	Residential	11539886	01-18200	316 E ORANGE ST
WATER	Residential	11539887	10-05352	374 CIRCLE DR
WATER	Residential	13289868	11-09810	321 PARK DR
WATER	Residential	13289873	11-04500	211 RIVERSIDE DR
WATER	Residential	13289876	11-08407	206 RIVERSIDE DR
WATER	Residential	13289879	11-09978	290 GARDEN DR
WATER	Residential	14369565	08-13230	610 S 9TH AVE
WATER	Residential	14369583	11-09843	314 PARK DR
WATER	Residential	14369593	11-09926	311 GARDEN DR
WATER	Residential	18456783	14-03110	1121 S 6TH AVE
WATER	Residential	18680227	02-06570	318 N TURNER AVE
WATER	Residential	18680228	02-00775	105 N 3RD AVE F101
WATER	Residential	18680294	04-02025	713 LA PLAYA DR
WATER	Residential	18680318	03-09801	809 N 8TH AVE
WATER	Residential	18680322	01-06270	817 E MAIN ST 1F
WATER	Residential	18680325	11-10640	426 BELL ST

WATER	Residential	18680327	04-02020	711 LA PLAYA DR
WATER	Residential	18680328	03-10900	601 N 8TH AVE
WATER	Residential	18781545	04-02045	720 LA PLAYA DR
WATER	Residential	18781546	04-02005	710 LA PLAYA DR
WATER	Residential	18781550	12-04900	212 W MAIN ST
WATER	Residential	18781555	04-02270	793 LA PLAYA DR
WATER	Residential	18781557	04-02205	767 LA PLAYA DR
WATER	Residential	18781558	04-02210	769 LA PLAYA DR
WATER	Residential	18781559	04-02275	795 LA PLAYA DR
WATER	Residential	18781560	04-02260	789 LA PLAYA DR
WATER	Residential	18781585	04-02130	736 LA PLAYA DR
WATER	Residential	18781586	04-02100	730 LA PLAYA DR
WATER	Residential	18781587	04-02288	705 LA PLAYA DR
WATER	Residential	18781588	04-02135	738 LA PLAYA DR
WATER	Residential	18781589	04-02105	732 LA PLAYA DR
WATER	Residential	18781590	04-02125	734 LA PLAYA DR
WATER	Residential	18781609	04-02150	739 LA PLAYA DR
WATER	Residential	18781610	04-02110	729 LA PLAYA DR
WATER	Residential	18781613	04-02145	737 LA PLAYA DR
WATER	Residential	18781614	04-02140	735 LA PLAYA DR
WATER	Residential	18781619	04-02265	791 LA PLAYA DR
WATER	Residential	18781620	04-02220	773 LA PLAYA DR
WATER	Residential	18781640	04-02050	717 LA PLAYA DR
WATER	Residential	18781641	04-02060	721 LA PLAYA DR
WATER	Residential	18781642	04-02055	719 LA PLAYA DR
WATER	Residential	18781643	04-02090	727 LA PLAYA DR
WATER	Residential	18781644	04-02085	725 LA PLAYA DR
WATER	Residential	18781645	04-02245	783 LA PLAYA DR
WATER	Residential	18781646	04-02280	797 LA PLAYA DR
WATER	Residential	18781649	04-02285	799 LA PLAYA DR
WATER	Residential	18781650	04-02215	771 LA PLAYA DR
WATER	Residential	18781669	04-02040	718 LA PLAYA DR
WATER	Residential	18781670	04-02035	716 LA PLAYA DR
WATER	Residential	18781671	04-02095	728 LA PLAYA DR
WATER	Residential	18781672	04-02065	722 LA PLAYA DR
WATER	Residential	18781673	05-05701	316 N 10TH AVE
WATER	Residential	18781674	04-02070	724 LA PLAYA DR
WATER	Residential	18781675	04-02250	785 LA PLAYA DR
WATER	Residential	18781676	04-02175	756 LA PLAYA DR
WATER	Residential	18781679	04-02170	754 LA PLAYA DR
WATER	Residential	18781700	06-01565	605 IL AVE
WATER	Residential	18781702	14-03196	240 STENSTROM RD
WATER	Residential	18781705	01-14800	508 E MAIN ST
WATER	Residential	18781706	11-10635	424 BELL ST
WATER	Residential	18781708	12-06910	123 S 9TH AVE
WATER	Residential	19140884	01-09490	625 E BAY ST
WATER	Residential	19140886	01-13168	610A E BAY ST

WATER	Residential	19140887	01-12904	630 E BAY ST
WATER	Residential	19140889	01-09400	617 E BAY ST
WATER	Residential	19140890	01-14117	212 S 1ST AVE
WATER	Residential	19140891	01-13227	604A E BAY ST
WATER	Residential	19140892	01-13154	612B E BAY ST
WATER	Residential	19140893	01-09312	613 E BAY ST
WATER	Residential	19140894	01-09500	631 E BAY ST
WATER	Residential	19140895	01-13192	608B E BAY ST
WATER	Residential	19140898	01-10920	419 S TULANE AVE
WATER	Residential	19140900	01-09700	709 E BAY ST
WATER	Residential	19140903	01-10406	702 E BAY ST
WATER	Residential	19140905	01-10200	720 E BAY ST
WATER	Residential	19140906	01-10809	407 S TULANE AVE
WATER	Residential	19140907	01-10300	710 E BAY ST
WATER	Residential	19140909	01-09203	607 E BAY ST
WATER	Residential	19140911	01-10000	724 E BAY ST
WATER	Residential	19140914	01-13176	610B E BAY ST
WATER	Residential	19140915	01-09300	609 E BAY ST
WATER	Residential	19140916	01-13204	606A E BAY ST
WATER	Residential	19140917	01-14130	210 S 1ST AVE
WATER	Residential	19140919	01-13147	612A E BAY ST
WATER	Residential	19140920	01-12214	616 SAUNDERS ST
WATER	Residential	19140922	01-12300	614 SAUNDERS ST
WATER	Residential	19140928	01-11301	710 SAUNDERS ST
WATER	Residential	19140929	01-12310	612 SAUNDERS ST
WATER	Residential	19140931	01-12409	607 SAUNDERS ST
WATER	Residential	19140932	01-12100	620 SAUNDERS ST
WATER	Residential	19140933	01-12497	615 SAUNDERS ST
WATER	Residential	19140935	01-13124	614A E BAY ST
WATER	Residential	19140937	10-01200	1319 GRADY REVELL RD
WATER	Residential	19140938	10-06470	211 ORANGE AVE
WATER	Residential	19140940	05-03290	403 POLK RD
WATER	Residential	19140942	01-14605	515 E ORANGE ST
WATER	Residential	19140944	09-00800	319 S 11TH AVE
WATER	Residential	19140945	10-07459	202 HIDDEN CREEK CIR
WATER	Residential	19140946	01-12803	316 S WALTON AVE
WATER	Residential	19140949	09-07600	807 HONOLULU DR
WATER	Residential	19140952	05-11380	607 W HARVEY ST
WATER	Residential	19140953	02-01600	117 N RUST AVE
WATER	Residential	19140955	10-03080	1146 STENSTROM RD
WATER	Residential	19267485	11-10625	420 BELL ST
WATER	Residential	19267492	06-01296	613 N PA AVE
WATER	Residential	19267493	13-09400	323 N 10TH AVE
WATER	Residential	19267496	01-17900	115 S 3RD AVE
WATER	Residential	19267499	10-07075	1035 BRIARWOOD DRIVE
WATER	Residential	19267501	11-11153	175 TROPICANA DR
WATER	Residential	19267506	11-10630	422 BELL ST

WATER	Residential	19267508	05-03500	604 N 9TH AVE
WATER	Residential	19286062	02-05201	322 N TURNER AVE
WATER	Residential	19286063	03-11310	304 W GA ST
WATER	Residential	19286064	06-09640	504 IL AVE
WATER	Residential	19286066	06-06801	801 W AL ST
WATER	Residential	19286067	01-07100	604 E MAIN ST
WATER	Residential	19286068	02-02001	205 N RUST AVE
WATER	Residential	19286069	02-02960	209 N 1ST AVE
WATER	Residential	19286070	09-02610	418 S 11TH AVE
WATER	Residential	19286071	10-07155	1478 W LA ST
WATER	Residential	19286072	11-02760	274 GRIFFIN RD
WATER	Residential	19286075	09-09400	422 S FL AVE
WATER	Residential	19286077	11-09200	221 PARK DR
WATER	Residential	19286078	10-03970	1309 LISA DR
WATER	Residential	19286081	05-03180	403 BELL ST
WATER	Residential	19286083	02-01550	109 N RUST AVE
WATER	Residential	19286084	09-03901	501 S FL AVE
WATER	Residential	19286085	14-03230	1036 S 6TH AVE
WATER	Commercial	19286086	06-01522	608 IL AVE
WATER	Residential	19286089	10-07150	291 TERRELL RD
WATER	Residential	19286090	07-13308	135 CARLTON ST 56
WATER	Residential	19286092	11-10000	218 PARK DR
WATER	Residential	19286093	11-05904	313 RIVERSIDE DR
WATER	Residential	19286094	10-03761	639 HANCHEY RD
WATER	Residential	19286096	11-08104	212 RIVERSIDE DR
WATER	Residential	19286097	11-04600	213 RIVERSIDE DR
WATER	Residential	19286098	02-02300	707 E PALMETTO ST
WATER	Residential	19286100	10-07452	317 HIDDEN CREEK CIR
WATER	Residential	19286101	02-04800	340 N TURNER AVE
WATER	Residential	19286102	13-06600	505 N 6TH AVE
WATER	Residential	19286105	05-10270	607 W KY ST
WATER	Residential	19286106	11-05300	301 RIVERSIDE DR
WATER	Residential	19286107	08-13803	401 W BAY ST
WATER	Residential	19286108	11-09605	315 PARK DR
WATER	Residential	19286110	09-06900	810 HONOLULU DR
WATER	Residential	19286111	03-09400	806 N 8TH AVE
WATER	Residential	19286113	04-00070	706 E OAK ST
WATER	Residential	19286114	10-03605	1264 PINE DR
WATER	Residential	19286116	02-01500	801 E MAIN ST
WATER	Residential	19286117	06-12310	902 W PALMETTO ST
WATER	Residential	19286119	02-01575	114 N RUST AVE
WATER	Residential	19286120	11-22860	1141 DOWNING CIR
WATER	Residential	19286121	11-09975	302 GARDEN DR
WATER	Residential	19286123	07-20103	635 S 5TH AVE G108
WATER	Residential	19286124	13-00500	214 E ORANGE ST
WATER	Residential	19286125	11-08707	205 PARK DR
WATER	Residential	19286126	10-06436	421 E ORANGE AVE

WATER	Residential	19286127	07-06790	309 CARLTON ST 8
WATER	Residential	19286128	13-10100	503 N FL AVE
WATER	Residential	19286129	01-15000	504 E ORANGE ST
WATER	Residential	19286130	01-15000	504 E ORANGE ST
WATER	Residential	19286131	05-11100	321 N FL AVE
WATER	Residential	19286133	13-05180	1444 HWY 17 N
WATER	Residential	19377612	07-20009	635 S 5TH AVE A202
WATER	Residential	19453386	01-06238	817 E MAIN ST 1C
WATER	Residential	19453387	06-01415	809 W TN ST
WATER	Residential	19453388	07-06779	309 CARLTON ST 7
WATER	Residential	19453391	11-11145	140 TROPICANA DR
WATER	Residential	19453423	02-01800	206 N RUST AVE
WATER	Residential	19453424	01-14500	511 E ORANGE ST
WATER	Residential	19453425	08-13603	314 S 9TH AVE A
WATER	Residential	19453427	05-03600	606 N 9TH AVE
WATER	Residential	19453454	12-14830	126 S 7TH AVE
WATER	Residential	19453456	12-00280	120 N 4TH AVE
WATER	Residential	19453457	11-10620	418 BELL ST
WATER	Residential	19453461	11-22720	1085 DOWNING CIRCLE
WATER	Residential	19453463	12-04704	202 W MAIN ST 101
WATER	Residential	19481198	12-14730	126 S 4TH AVE
WATER	Residential	19481199	09-01901	519 S 11TH AVE
WATER	Residential	19481201	14-03490	802 S 6TH AVE
WATER	Residential	19481203	10-03592	1224 PINE DR
WATER	Residential	19481204	07-06418	134 W GRAPEFRUIT ST
WATER	Residential	19481205	02-05900	513 E PALMETTO ST
WATER	Residential	19481206	10-03090	1150 STENSTROM RD
WATER	Residential	19481207	11-08001	214 RIVERSIDE DR
WATER	Residential	19481210	08-13500	318 S 9TH AVE
WATER	Residential	19481212	05-06505	311 N 10TH AVE
WATER	Residential	19481214	01-08350	645 E GREEN ST
WATER	Residential	19481215	06-03502	214 N PA AVE
WATER	Residential	19481216	06-07002	505 N PA AVE
WATER	Residential	19481217	07-06691	1051 DOWNING CIR 109
WATER	Residential	19481219	09-01937	518 S 11TH AVE
WATER	Residential	19481220	02-00600	105 N 3RD AVE E101
WATER	Residential	19481222	05-03150	315 BELL ST
WATER	Residential	19481223	05-10250	604 W KY ST
WATER	Residential	19481224	06-01585	708 W AL ST
WATER	Residential	19481226	07-06654	1051 DOWNING CIR 105
WATER	Residential	19481230	10-07450	1281 W LA ST
WATER	Commercial	19481231	14-08200	1049 S FL AVE
WATER	Residential	19481233	10-02600	459 HANCHEY RD
WATER	Residential	19481234	10-06410	1319 W PALMETTO ST
WATER	Residential	19481235	06-12500	129 IL AVE
WATER	Residential	19481236	01-14900	502 E MAIN ST
WATER	Residential	19481237	14-03250	1030 S 6TH AVE

WATER	Residential	19481238	06-01525	610 N OH AVE
WATER	Residential	19481239	13-09800	825 N FL AVE
WATER	Residential	19481240	02-06006	507 E PALMETTO ST
WATER	Residential	19481242	10-06700	125 ORANGE AVE
WATER	Commercial	19481243	06-01519	830 W AL ST
WATER	Residential	19481245	13-02700	225 E OAK ST
WATER	Residential	19732921	14-04100	105 W SUMMIT ST
WATER	Residential	19732924	08-00803	214 W BAY ST
WATER	Residential	19732938	01-18500	309 E BAY ST
WATER	Residential	19732939	07-13903	135 CARLTON ST 50
WATER	Residential	19733305	13-09901	601 N FL AVE
WATER	Residential	19733308	05-05210	405 W PALMETTO ST
WATER	Residential	19913694	05-07500	211 N 10TH AVE
WATER	Residential	19913696	11-21644	1025 S 9TH AVE 12
WATER	Residential	19913699	01-15300	211 S 2ND AVE
WATER	Residential	19913700	11-11106	1162 N FL AVE
WATER	Residential	19913702	13-03220	220 N 6TH AVE
WATER	Residential	19913703	11-07550	224 RIVERSIDE DR
WATER	Residential	19913704	10-03511	1222 ASPEN LANE
WATER	Residential	19913705	07-08650	201 W STRICKLAND ST
WATER	Residential	19913706	04-02185	760 LA PLAYA DR
WATER	Residential	19913708	10-03100	1005 KNOLLWOOD CIR
WATER	Residential	19913709	07-11402	216 W SHORT ST
WATER	Residential	19913710	05-05200	211 N 9TH AVE
WATER	Residential	19913711	05-03130	906 N 9TH AVE
WATER	Residential	19913712	08-02202	703 S 8TH AVE
WATER	Residential	19913715	13-05300	1031 HWY 17 N
WATER	Commercial	19913717	13-07185	316 N 7TH AVE
WATER	Residential	19913719	09-06120	731 SANDPIPER DR 32
WATER	Residential	19913721	03-09650	317 POLK RD
WATER	Residential	19913722	09-01950	512 S 11TH AVE
WATER	Residential	19913723	09-09319	709 OAK FOREST DR
WATER	Residential	19913724	09-09228	711 CROSBY LANE
WATER	Residential	19913725	10-07059	1010 BRIARWOOD ESTATES
WATER	Residential	19913728	10-03601	1244 PINE DR
WATER	Residential	19913730	08-12800	605 S 9TH AVE
WATER	Residential	19913733	05-07200	301 N 10TH AVE
WATER	Residential	19913734	04-02160	743 LA PLAYA DR
WATER	Residential	19913735	14-04210	119 W BAY ST
WATER	Residential	19913736	01-13139	614B E BAY ST
WATER	Residential	19913739	07-17003	1030 MAKOWSKI RD 20
WATER	Residential	19913741	09-05960	746 SANDPIPER DR 49
WATER	Residential	19913742	04-02030	715 LA PLAYA DR
WATER	Residential	19913743	07-20005	635 S 5TH AVE A106
WATER	Residential	19913747	08-14660	307 S 10TH AVE
WATER	Residential	19913749	09-01943	516 S 11TH AVE
WATER	Residential	19913750	02-04602	331 N DIANA AVE

WATER	Residential	19913751	05-09700	818 N FL AVE
WATER	Residential	19913752	07-18507	1050 MAKOWSKI RD 7
WATER	Residential	19913754	05-08200	502 N FL AVE
WATER	Residential	19913755	01-06289	817 E MAIN ST 2B
WATER	Residential	19913757	05-12003	211 N FL AVE
WATER	Residential	19913761	10-07459	202 HIDDEN CREEK CIR
WATER	Residential	19913762	04-00870	700 E TOWNSEND ST 29
WATER	Residential	19913765	05-10301	711 N FL AVE
WATER	Residential	19913767	11-10645	425 AMANDA LN
WATER	Residential	19913768	11-01080	366 MARTIN L KING JR AVE
WATER	Residential	19913769	09-05782	1036 HUMMINGBIRD LN 19
WATER	Residential	19913770	01-13350	401 S 1ST AVE
WATER	Residential	19913771	12-00107	301 E MAIN ST
WATER	Residential	19913772	08-09000	600 S 10TH AVE
WATER	Residential	19944752	06-12401	912 W PALMETTO ST
WATER	Residential	19944754	10-01650	1353 TANGELO DR
WATER	Residential	19944755	13-05975	915 N 7TH AVE
WATER	Residential	19944756	07-07203	901 SEMINOLE ST
WATER	Residential	19944758	01-08800	632 E GREEN ST
WATER	Residential	19944760	04-02075	726 LA PLAYA DR
WATER	Residential	19944762	10-03195	1012 MAGNOLIA LN
WATER	Residential	19944764	11-21598	1019 S 9TH AVE 9
WATER	Residential	19944765	11-10649	1010 OSCEOLA LN
WATER	Residential	19944767	11-10655	1011 OSCEOLA LN
WATER	Residential	19944769	11-10648	1007 OSCEOLA LN
WATER	Residential	19944770	09-00120	322 S 10TH AVE
WATER	Residential	19944771	11-13820	197 GEORGETOWN LOOP
WATER	Residential	19944772	09-01403	417 S 11TH AVE
WATER	Residential	19944774	09-01600	427 S 11TH AVE
WATER	Residential	19944776	13-04402	618 N 6TH AVE
WATER	Residential	19944778	13-05012	1464 US HWY 17N
WATER	Residential	19944779	13-04710	740 N 6TH AVE
WATER	Residential	19944780	03-13833	202 W MAIN 204
WATER	Residential	19944781	11-10646	427 AMANDA LN
WATER	Residential	19944783	11-09000	211 PARK DR
WATER	Residential	19944784	09-02000	510 S 11TH AVE
WATER	Residential	20137470	07-20078	635 S 5TH AVE E207
WATER	Residential	20137471	07-06423	122 W GRAPEFRUIT ST
WATER	Residential	20137472	09-02812	316 S 11TH AVE
WATER	Residential	20137473	09-09200	702 S FL AVE
WATER	Residential	20137474	05-03148	1013 N 9TH AVE
WATER	Residential	20137475	04-02010	712 LA PLAYA DR
WATER	Residential	20137477	11-22720	1085 DOWNING CIRCLE
WATER	Residential	20137480	07-13100	206 S 7TH AVE
WATER	Residential	20137481	07-04153	121 S 7TH AVE
WATER	Residential	20137482	07-11700	322 S 7TH AVE
WATER	Residential	20137483	11-09024	215 PARK DR

WATER	Residential	20137484	05-04402	417 N 9TH AVE
WATER	Residential	20137485	11-05500	305 RIVERSIDE DR
WATER	Residential	20137486	11-07600	222 RIVERSIDE DR
WATER	Residential	20137487	11-10534	1007 N 8TH AVE
WATER	Residential	20137488	11-23150	1082 DOWNING CIR
WATER	Residential	20137489	11-23100	1102 DOWNING CIR
WATER	Residential	20137490	10-03611	1269 PINE CT
WATER	Residential	20137491	10-06425	1330 BURTON ST
WATER	Residential	20137492	07-08350	202 LANE ST
WATER	Residential	20137493	09-05793	722 SANDPIPER DR 20
WATER	Residential	20137496	10-07453	349 HIDDEN CREEK CIR
WATER	Residential	20137497	11-23140	1086 DOWNING CIR
WATER	Residential	20137498	10-07452	317 HIDDEN CREEK CIR
WATER	Residential	20137499	02-05000	330 N TURNER AVE
WATER	Residential	20137501	10-00900	149 HANCHEY RD
WATER	Residential	20137502	08-09900	624 S 8TH AVE
WATER	Residential	20137503	03-13834	202 W MAIN 205
WATER	Residential	20138240	14-03803	604 S 6TH AVE
WATER	Residential	20138241	09-06700	714 HONOLULU DR
WATER	Residential	20138242	11-21450	920 S 10TH AVE
WATER	Residential	20138243	09-01800	509 S 11TH AVE
WATER	Residential	20138244	14-02604	120 W HOGAN ST
WATER	Residential	20138245	09-08102	812 KOHALA DR
WATER	Residential	20138249	07-20065	635 S 5TH AVE E102
WATER	Residential	20138250	03-05500	505 N 7TH AVE
WATER	Residential	20138251	13-06802	409 N 6TH AVE
WATER	Residential	20138253	10-07458	397 HIDDEN CREEK CIR
WATER	Residential	20138254	14-03290	1012 S 6TH AVE
WATER	Residential	20138255	06-04003	308 N PA AVE
WATER	Residential	20138256	02-07120	409 ALICE ST
WATER	Residential	20138258	03-08100	508 N 8TH AVE
WATER	Residential	20138259	12-14820	112 N 6TH AVE
WATER	Residential	20138260	07-11101	425 S 8TH AVE
WATER	Residential	20138262	11-08300	208 RIVERSIDE DR
WATER	Residential	20138264	08-07604	912 S 10TH AVE
WATER	Residential	20138265	09-02200	506 S 11TH AVE
WATER	Residential	20138266	08-04636	308 PEACE DR
WATER	Residential	20138267	08-07513	910 S 10TH AVE
WATER	Residential	20138268	03-09600	912 N 8TH AVE
WATER	Residential	20138269	08-06001	812 S 9TH AVE
WATER	Residential	20138270	10-03481	1060 KNOLLWOOD CIR
WATER	Residential	20138272	11-13441	502 N OH AVE
WATER	Residential	20138275	10-07458	397 HIDDEN CREEK CIR
WATER	Residential	20378314	06-03000	114 N PA AVE
WATER	Residential	20378315	09-04910	815 S FL AVE
WATER	Residential	20378316	10-01201	1324 GRADY REVELL RD
WATER	Residential	20378317	07-06640	1051 DOWNING CIR 103

WATER	Residential	20378318	09-05692	1024 BLUE HERRON LN 10
WATER	Residential	20378320	10-07453	349 HIDDEN CREEK CIR
WATER	Residential	20378321	10-07461	355 HIDDEN CREEK CIR
WATER	Residential	20378322	10-07060	1008 BRIARWOOD
WATER	Residential	20378323	10-07479	279 HIDDEN CREEK CIR
WATER	Residential	20378324	10-07461	355 HIDDEN CREEK CIR
WATER	Residential	20378325	08-14680	313 S 10TH AVE
WATER	Residential	20378326	11-10030	212 PARK DR
WATER	Residential	20378327	09-03100	208 S 11TH AVE
WATER	Residential	20378328	11-02470	303 MARTIN L KING JR AVE
WATER	Residential	20378329	10-07500	386 ALTMAN RD
WATER	Residential	20378330	10-03141	1045 KNOLLWOOD CIR
WATER	Residential	20378331	13-06310	615 N 6TH AVE
WATER	Residential	20378332	08-05008	809 S 9TH AVE
WATER	Residential	20378333	10-07479	279 HIDDEN CREEK CIR
WATER	Residential	20378335	11-09700	242 GARDEN DR
WATER	Residential	20378336	06-11602	312 N OH AVE
WATER	Residential	20378337	02-00850	112 N 3RD AVE
WATER	Residential	20378338	02-01700	204 N RUST AVE
WATER	Residential	20378339	11-21350	1127 HUSS RD
WATER	Residential	20378341	11-09870	300 PARK DR
WATER	Residential	20378342	09-00600	309 S 11TH AVE
WATER	Residential	20378344	08-10000	620 S 8TH AVE
WATER	Residential	20378345	13-01623	130 PARK DR
WATER	Residential	20378346	04-00295	373 RIVERCHASE CIR
WATER	Residential	20378347	11-11160	1228 N FL AVE
WATER	Commercial	20378348	13-02051	408 HEARD BRIDGE RD
WATER	Residential	20378349	12-03205	N 6TH AVE
WATER	Residential	21214525	11-09970	304 GARDEN DR
WATER	Residential	22570118	11-10700	1006 N FL AVE
WATER	Residential	22646977	06-02400	703 W PALMETTO ST
WATER	Residential	22646978	06-02800	704 W MAIN ST
WATER	Residential	22646979	06-02300	201 N IN AVE
WATER	Residential	22646980	06-00500	208 N IN AVE
WATER	Residential	22646981	06-02200	207 N IN AVE
WATER	Residential	22646982	06-02500	115 IN AVE
WATER	Residential	22646983	06-00200	611 W PALMETTO ST
WATER	Residential	22646984	06-01902	223 N IN AVE
WATER	Residential	22646985	12-07700	231 W MAIN ST MAIN
WATER	Residential	22646986	12-07700	231 W MAIN ST MAIN
WATER	Residential	22646987	12-07751	105 S 8TH AVE 101
WATER	Residential	22646988	12-07752	105 S 8TH AVE 102
WATER	Residential	22646989	12-07756	105 S 8TH AVE 204
WATER	Residential	22646990	12-07758	105 S 8TH AVE 206
WATER	Residential	22646992	12-07700	231 W MAIN ST MAIN
WATER	Residential	22646993	12-07753	105 S 8TH AVE 201
WATER	Residential	22646994	12-07754	105 S 8TH AVE 202

WATER	Residential	22646995	12-07757	105 S 8TH AVE 205
WATER	Residential	22646996	12-07755	105 S 8TH AVE 203
WATER	Residential	23248840	02-01325	603 E MAIN ST
WATER	Residential	25230342	01-09100	603 E BAY ST
WATER	Residential	25230343	11-04306	207 RIVERSIDE DR
WATER	Residential	25230344	01-11103	410 S TULANE AVE
WATER	Residential	25230345	14-03100	1119 S 6TH AVE
WATER	Residential	25230346	06-13000	912 W MAIN ST
WATER	Residential	25230348	06-09000	210 IL AVE
WATER	Residential	25230349	14-08115	1310 S FL AVE
WATER	Residential	25230350	08-08100	822 S 10TH AVE
WATER	Residential	25230351	11-07210	314 RIVERSIDE DR
WATER	Residential	25230382	10-07477	304 HIDDEN CREEK
WATER	Residential	25230383	10-06447	1332 DAVIS ST
WATER	Residential	25230385	10-06300	1310 CITRUS ST
WATER	Residential	25230386	02-07295	403 E PALMETTO ST
WATER	Residential	25230387	10-03771	623 HANCHEY RD
WATER	Residential	25230388	11-22820	1144 DOWNING CIR
WATER	Residential	25230389	10-07477	304 HIDDEN CREEK
WATER	Residential	25230390	10-03707	855 PIERCE RD
WATER	Residential	25230391	06-10600	909 W LA ST
WATER	Residential	25242927	10-07438	266 HIDDEN CREEK
WATER	Residential	25242928	02-04414	323 N DIANA AVE
WATER	Residential	25242930	14-02951	909 S 6TH AVE
WATER	Residential	25242932	10-07438	266 HIDDEN CREEK
WATER	Residential	25242934	11-02800	290 GRIFFIN RD
WATER	Residential	25242936	06-01101	612 W AL ST
WATER	Residential	25242937	02-01200	509 E MAIN ST
WATER	Residential	25242938	09-09350	712 OAK FOREST DR
WATER	Residential	25242939	09-00150	501 W BAY ST
WATER	Residential	25242941	09-06200	711 SANDPIPER DR 40
WATER	Residential	25242942	03-04300	803 N 7TH AVE
WATER	Residential	25242943	11-20901	1150 S FL AVE
WATER	Residential	25242944	10-07470	1299 W LA ST
WATER	Residential	25242945	08-04300	808 S 8TH AVE
WATER	Residential	25242946	05-03102	816 N 9TH AVE
WATER	Residential	25242967	01-13500	407 S 1ST AVE
WATER	Residential	25242968	10-04902	1436 LISA DR
WATER	Residential	25242969	07-09202	710 S 7TH AVE
WATER	Residential	25242970	09-08500	820 HAWAIIAN DR
WATER	Residential	25242972	01-08303	631 E GREEN ST
WATER	Residential	25242973	11-09925	309 GARDEN DR
WATER	Residential	25242974	01-15600	406 E BAY ST
WATER	Residential	25242976	04-00080	710 E OAK ST
WATER	Residential	25242988	04-00900	700 E TOWNSEND ST 35
WATER	Residential	25242989	13-00100	205 E BAY ST
WATER	Residential	25242991	10-07430	235 HIDDEN CREEK CIR

WATER	Residential	25242992	05-03360	715 N 9TH AVE
WATER	Residential	25242993	10-07411	211 HIDDEN CREEK CIR
WATER	Residential	25242996	02-07300	401 E PALMETTO ST
WATER	Residential	25248630	13-06210	735 N 6TH AVE
WATER	Residential	25248631	12-14885	515 CARLTON ST
WATER	Residential	25248632	11-22000	1010 S 8TH AVE
WATER	Residential	25248633	10-03670	1232 STENSTROM RD
WATER	Residential	25248634	02-02900	601 E PALMETTO ST
WATER	Residential	25248635	10-03392	1260 KNOLLWOOD CIR
WATER	Residential	25248636	03-10401	701 N 8TH AVE
WATER	Residential	25248637	02-11550	325 HEARD BRIDGE RD
WATER	Residential	25248640	04-00340	347 RIVERCHASE CIR
WATER	Residential	25248641	10-07442	221 HIDDEN CREEK CIR
WATER	Residential	25248643	09-08000	704 HAWAIIAN DR
WATER	Residential	25248645	10-07431	265 HIDDEN CREEK CIR
WATER	Residential	25248646	02-01000	111 N 2ND AVE
WATER	Residential	25248647	11-09860	304 PARK DR
WATER	Residential	25248648	11-13433	506 N OH AVE
WATER	Residential	25248649	04-02240	781 LA PLAYA DR
WATER	Residential	25248650	10-07462	395 HIDDEN CREEK CIR
WATER	Residential	25248651	01-06240	817 E MAIN ST 1D
WATER	Residential	25248652	10-07462	395 HIDDEN CREEK CIR
WATER	Residential	25248657	10-06210	1311 CITRUS ST
WATER	Residential	25248658	10-07441	271 HIDDEN CREEK CIR
WATER	Residential	25248659	12-06020	529 W MAIN ST
WATER	Residential	25248660	10-07432	256 HIDDEN CREEK CIR
WATER	Residential	25248662	10-07442	221 HIDDEN CREEK CIR
WATER	Residential	25248663	10-07441	271 HIDDEN CREEK CIR
WATER	Residential	25248664	10-07431	265 HIDDEN CREEK CIR
WATER	Residential	25248665	12-03905	126 W MAIN ST
WATER	Residential	25248666	10-07439	272 HIDDEN CREEK
WATER	Residential	25248667	10-07432	256 HIDDEN CREEK CIR
WATER	Residential	25248671	09-00095	410 S 10TH AVE
WATER	Residential	25248672	08-02510	705 S 8TH AVE
WATER	Residential	25248673	10-05702	1300 W MAIN ST
WATER	Residential	25248674	13-04301	610B N 6TH AVE
WATER	Residential	25248677	09-08650	811 HAWAIIAN DR
WATER	Residential	25248678	11-23190	1070 DOWNING CIRCLE
WATER	Residential	25248679	09-09226	706 CROSBY LN
WATER	Residential	25248680	03-08200	514 N 8TH AVE
WATER	Residential	25248681	07-20077	635 S 5TH AVE E206
WATER	Residential	25248682	08-05301	815 S 9TH AVE
WATER	Residential	25248683	06-13100	116 N OH AVE
WATER	Residential	25248684	09-06040	749 SANDPIPER DR 58
WATER	Residential	25248685	01-10100	722 E BAY ST
WATER	Residential	25248686	03-11104	509 N 8TH AVE
WATER	Residential	25248687	01-06461	116 INGLIS WAY

WATER	Residential	25248688	05-03147	1011 N 9TH AVE
WATER	Residential	25248689	06-10906	313 IL AVE
WATER	Residential	25248700	08-07100	815 S 10TH AVE
WATER	Residential	25248701	06-01721	315 N IN AVE
WATER	Residential	25248702	06-00741	312 N IN AVE
WATER	Residential	25248703	06-01710	701 W LA ST
WATER	Residential	25248704	06-00850	410 N IN AVE
WATER	Residential	25248705	06-01600	505 N IN AVE
WATER	Residential	25248706	06-01002	611 W AL ST
WATER	Residential	25248707	06-01595	507 N IN AVE
WATER	Residential	25248708	06-01615	501 N IN AVE
WATER	Residential	25248709	06-01610	503 N IN AVE
WATER	Residential	25248710	10-03709	863 PIERCE RD
WATER	Residential	25248711	08-05501	827 S 9TH AVE
WATER	Residential	25248712	11-07400	300 RIVERSIDE DR
WATER	Residential	25248713	07-20024	635 S 5TH AVE B201
WATER	Residential	25248714	07-20074	635 S 5TH AVE E203
WATER	Residential	25248715	11-13900	311 N OH AVE
WATER	Residential	25248716	11-21699	1016 S 9TH AVE 4
WATER	Residential	25248717	06-03602	220 N PA AVE
WATER	Residential	25248718	06-11200	904 W HARVEY ST
WATER	Residential	25248720	07-20069	635 S 5TH AVE E106
WATER	Residential	25248722	10-04400	1389 LISA DR
WATER	Residential	25248723	06-04301	524 N PA AVE
WATER	Residential	25248726	10-07200	316 TERRELL RD
WATER	Residential	25248727	11-08710	208 PARK DR
WATER	Commercial	25248728	07-20104	635 S 5TH AVE
WATER	Commercial	25248729	13-07080	315 N 6TH AVE
WATER	Residential	25248730	06-01222	704 W TN ST
WATER	Residential	25248732	04-02195	764 LA PLAYA DR
WATER	Residential	25248733	07-14505	135 CARLTON ST 46
WATER	Residential	25248734	11-10643	421 AMANDA LN
WATER	Residential	25248735	06-11704	316 N OH AVE
WATER	Residential	25248736	10-05200	483 CIRCLE DR
WATER	Residential	25248737	14-03430	118 CARLTON ST
WATER	Residential	25248738	11-10650	1004 N FL AVE
WATER	Residential	25248739	11-21100	1135 S FL AVE
WATER	Residential	25248740	10-06490	1440 CITRUS ST
WATER	Residential	25248742	12-11512	107 W MAIN ST
WATER	Residential	25248743	12-05000	214-216 W MAIN ST
WATER	Residential	25248744	10-07472	308 HIDDEN CREEK
WATER	Residential	25248745	10-07443	227 HIDDEN CREEK CIR
WATER	Residential	25248746	11-13600	1002 W LA ST
WATER	Residential	25248747	11-02450	307 MARTIN L KING JR AVE
WATER	Residential	25248748	05-08040	111 N 10TH AVE
WATER	Residential	25248750	04-00190	346 RIVERCHASE CIR
WATER	Residential	25248751	11-06605	331 RIVERSIDE DR

WATER	Residential	25248752	11-11156	1245 KELLY CT
WATER	Residential	25248753	11-06900	322 RIVERSIDE DR
WATER	Residential	25248754	11-13911	212 N OH AVE
WATER	Residential	25248755	13-00859	908 MARTIN L KING JR AVE
WATER	Residential	25248756	06-01580	706 W AL ST
WATER	Residential	25248757	07-04506	213 S 7TH AVE
WATER	Residential	25248758	07-20072	635 S 5TH AVE E201
WATER	Residential	25248770	01-10975	416 S TULANE AVE
WATER	Residential	25248771	06-11100	305 IL AVE
WATER	Residential	25248773	10-01265	181 ALTMAN RD
WATER	Residential	25248774	06-07600	301 N PA AVE
WATER	Residential	25248775	10-07110	1013 W LA ST
WATER	Residential	25248776	06-01275	608 N PA AVE
WATER	Residential	25248777	06-01531	710 N OH AVE
WATER	Commercial	25248778	13-08950	511 W PALMETTO ST
WATER	Residential	25248779	11-07241	308 RIVERSIDE DR
WATER	Residential	25248780	02-07270	217 N 2ND AVE
WATER	Residential	25248781	09-03400	401 S FL AVE
WATER	Residential	25248782	01-12418	613 SAUNDERS ST
WATER	Residential	25248783	08-12000	313 W ORANGE ST
WATER	Residential	25248784	10-05354	358 CIRCLE DR
WATER	Residential	25248785	01-09800	711 E BAY ST
WATER	Residential	25248786	08-11831	304 COURT ST
WATER	Residential	25248787	07-20071	635 S 5TH AVE E108
WATER	Residential	25248788	11-10020	214 PARK DR
WATER	Residential	25248789	09-02300	502 S 11TH AVE
WATER	Commercial	25248790	12-07211	208 W ORANGE ST
WATER	Residential	25248791	02-02665	614 E OAK ST
WATER	Residential	25248792	14-07290	920 SEMINOLE ST
WATER	Residential	25248793	09-09205	606 S FL AVE
WATER	Residential	25248794	11-22961	1077 DOWNING CIR
WATER	Residential	25248795	07-07700	920 S 7TH AVE
WATER	Residential	25248796	06-11900	227 IL AVE
WATER	Residential	25248797	01-08740	204 S WALTON AVE
WATER	Residential	25248798	11-00600	340 MARTIN L KING JR AVE
WATER	Residential	25248799	11-10647	1006 OSCEOLA LN
WATER	Residential	25248800	10-07463	378 HIDDEN CREEK
WATER	Residential	25248801	14-03190	1102 S 6TH AVE
WATER	Residential	25248802	11-22770	1164 DOWNING CIR
WATER	Residential	25248803	10-07410	298 HIDDEN CREEK CIR
WATER	Residential	25248804	02-02195	711 E PALMETTO ST
WATER	Residential	25248805	10-07410	298 HIDDEN CREEK CIR
WATER	Residential	25248806	01-15702	401 E BAY ST
WATER	Residential	25248807	10-07433	262 HIDDEN CREEK CIRCLE
WATER	Residential	25248808	10-07463	378 HIDDEN CREEK
WATER	Residential	25248809	10-07050	1007 BRIARWOOD ESTATES
WATER	Residential	25248810	07-15401	125 CARLTON ST 35

WATER	Residential	25248811	10-03060	1008 STENSTROM RD
WATER	Residential	25248813	05-04800	309 N 9TH AVE
WATER	Residential	25248814	08-14690	315 S 10TH AVE
WATER	Residential	25248815	02-12000	309 HEARD BRIDGE RD
WATER	Residential	25248816	07-20098	635 S 5TH AVE G103
WATER	Residential	25248817	06-07100	803 W GA ST
WATER	Residential	25248818	10-07435	259 HIDDEN CREEK
WATER	Residential	25248820	10-07434	369 HIDDEN CREEK CIR
WATER	Residential	25248821	06-07303	321 N PA AVE
WATER	Residential	25248822	10-05340	413 CIRCLE DR
WATER	Residential	25248823	07-06421	126 W GRAPEFRUIT ST
WATER	Residential	25248824	11-09501	307 PARK DR
WATER	Residential	25248825	10-07434	369 HIDDEN CREEK CIR
WATER	Residential	25248826	10-07149	235 TERRELL RD
WATER	Residential	25248827	11-21430	510 CARLTON ST
WATER	Residential	25248828	10-03070	1050 STENSTROM RD
WATER	Residential	25248829	13-01400	1102 E MAIN ST
WATER	Residential	25248843	10-07143	1023 BRIARWOOD
WATER	Residential	25248844	10-07143	1023 BRIARWOOD
WATER	Residential	25248845	06-07482	311 N PA AVE
WATER	Residential	25248846	09-00180	208 S 10TH AVE
WATER	Residential	25248847	10-07211	1009 W LA
WATER	Residential	25248848	10-07211	1009 W LA
WATER	Residential	25248849	10-07110	1013 W LA ST
WATER	Residential	25248850	11-06300	321 RIVERSIDE DR
WATER	Residential	25248851	11-13411	510 N OH AVE
WATER	Residential	25248852	02-11704	319 HEARD BRIDGE RD
WATER	Residential	25248853	01-06901	100 INGLIS WAY
WATER	Residential	25248854	10-03681	1284 STENSTROM RD
WATER	Residential	25248855	11-07100	318 RIVERSIDE DR
WATER	Residential	25248856	06-08300	123 N PA AVE
WATER	Residential	25248858	11-09825	322 PARK DR
WATER	Residential	25248859	05-02710	714 N 9TH AVE
WATER	Residential	25249625	12-00302	219 E MAIN ST
WATER	Residential	25249656	02-02320	708 E PALMETTO ST
WATER	Residential	25249657	11-09927	313 GARDEN DR
WATER	Residential	25249658	11-09920	307 GARDEN DR
WATER	Residential	25249659	11-06600	329 RIVERSIDE DR
WATER	Residential	25249660	10-07433	262 HIDDEN CREEK CIRCLE
WATER	Residential	25249661	11-07804	218 RIVERSIDE DR
WATER	Residential	25249662	10-07465	1685 W LA ST
WATER	Residential	25249663	09-06140	727 SANDPIPER DR 34
WATER	Residential	25249665	14-03220	1038 S 6TH AVE
WATER	Residential	25292391	11-04700	215 RIVERSIDE DR
WATER	Residential	25292392	02-02800	608 E PALMETTO ST
WATER	Residential	25292393	05-03310	805 N 9TH AVE
WATER	Residential	25292394	13-09021	208 N FL AVE

WATER	Residential	25292396	06-04101	320 N PA AVE
WATER	Residential	25292397	04-02230	777 LA PLAYA DR
WATER	Residential	25292398	04-02235	779 LA PLAYA DR
WATER	Residential	25292399	10-07439	272 HIDDEN CREEK
WATER	Residential	25292400	10-07443	227 HIDDEN CREEK CIR
WATER	Residential	25292401	09-08803	803 HAWAIIAN DR
WATER	Residential	25292402	13-00600	215 E ORANGE ST
WATER	Residential	25292403	09-00500	513 W BAY ST
WATER	Residential	25292405	05-05240	112 N 10TH AVE
WATER	Residential	25292406	11-09935	317 GARDEN DR
WATER	Residential	25292407	11-05701	309 RIVERSIDE DR
WATER	Residential	25292409	08-00701	215 S 8TH AVE
WATER	Residential	25292410	04-00140	719 E OAK ST
WATER	Residential	25292411	11-08800	207 PARK DR
WATER	Residential	25292414	11-21670	1010 S 9TH AVE 1
WATER	Residential	25292415	08-14630	219 S 10TH AVE
WATER	Residential	25292417	10-02225	1354 BLAIR LANE
WATER	Residential	25292418	13-05175	1448 US HWY 17 N
WATER	Residential	25292419	11-02701	810 E BAY ST
WATER	Residential	25292420	14-03480	804 S 6TH AVE
WATER	Residential	25353313	12-14888	457 CARLTON ST
WATER	Residential	25353314	10-07055	1029 BRIARWOOD DR
WATER	Residential	25353315	07-10118	628 S 7TH AVE
WATER	Residential	25353316	11-01085	805 E SUMMIT ST
WATER	Residential	25353317	07-08800	214 W STRICKLAND ST
WATER	Residential	25353318	02-02700	607 E PALMETTO ST
WATER	Residential	25353319	08-01103	303 S 8TH AVE
WATER	Residential	25353320	02-11401	405 HEARD BRIDGE RD
WATER	Residential	25353321	03-10700	609 N 8TH AVE
WATER	Residential	25353325	08-00105	209 W ORANGE ST
WATER	Residential	25353327	06-14000	613 W MAIN ST
WATER	Residential	25353328	10-03430	1245 KNOLLWOOD CIR
WATER	Residential	25353329	01-09900	726 E BAY ST
WATER	Residential	25353330	09-01807	513 S 11TH AVE
WATER	Residential	25353331	13-01700	1001 E MAIN ST
WATER	Residential	25353332	02-04300	315 N DIANA AVE
WATER	Residential	25353341	06-09500	814 W LA ST
WATER	Residential	25353355	14-03520	702 S 6TH AVE
WATER	Residential	25353358	14-03510	706 S 6TH AVE
WATER	Residential	25353364	10-07411	211 HIDDEN CREEK CIR
WATER	Residential	25353365	06-12700	113 IL AVE
WATER	Residential	25353366	10-07435	259 HIDDEN CREEK
WATER	Residential	25353367	03-05000	611 N 7TH AVE
WATER	Residential	25353368	11-09985	222 PARK DR
WATER	Residential	25353369	11-09875	301 GARDEN DR
WATER	Residential	25353370	10-06325	210 ORANGE AVE
WATER	Commercial	25353378	14-08300	205 S 11TH AVE

WATER	Residential	25353379	02-07320	220 N 3RD AVE
WATER	Residential	25353386	11-02000	670 MARTIN L KING JR AVE
WATER	Residential	25353393	12-14886	1025 S 8TH AVE
WATER	Residential	25353394	08-05405	817 S 9TH AVE
WATER	Residential	25353395	10-07456	363 HIDDEN CREEK CIR
WATER	Commercial	25353396	06-01516	835 W TN ST
WATER	Residential	25353397	11-13700	1004 W LA ST
WATER	Residential	25353398	10-03651	1020 KNOLLWOOD CIR
WATER	Residential	25353400	09-02410	605 CONSTITUTION DR
WATER	Residential	25353401	10-07049	1005 BRIARWOOD DR.
WATER	Residential	25353402	10-04600	1425 LISA DR
WATER	Residential	25353408	01-13103	622 E BAY ST
WATER	Residential	25353409	14-07355	1006 S 9TH AVE
WATER	Residential	25353410	09-05720	718 SANDPIPER DR 13
WATER	Residential	25353411	06-10501	904 W LA ST
WATER	Residential	25353413	02-05701	514 E OAK ST
WATER	Residential	25353414	01-11202	406 S TULANE AVE
WATER	Residential	25353415	08-04001	820 S 8TH AVE B
WATER	Residential	25353416	08-02500	711 S 8TH AVE
WATER	Residential	25353418	02-01125	112 N 2ND AVE
WATER	Commercial	25353419	07-20105	637 S 5TH AVE
WATER	Residential	25353420	05-10261	612 W KY ST
WATER	Residential	25353421	11-12000	637 POLK RD
WATER	Residential	25353422	09-00200	509 W ORANGE ST
WATER	Residential	25353423	02-11300	407 HEARD BRIDGE RD
WATER	Residential	25353424	10-07660	715 ALTMAN RD
WATER	Residential	25353425	08-04615	304 PEACE DR
WATER	Residential	25353427	10-07205	1016 W LA ST
WATER	Residential	25353433	10-03580	1040 KNOLLWOOD CIR
WATER	Residential	25353436	10-07430	235 HIDDEN CREEK CIR
WATER	Residential	25353437	02-09202	310 HEARD BRIDGE RD
WATER	Residential	25353438	11-23080	1110 DOWNING CIR
WATER	Residential	25353440	10-07409	297 HIDDEN CREEK CIR
WATER	Residential	25353441	10-07409	297 HIDDEN CREEK CIR
WATER	Residential	25353442	10-07552	1750 DOYLE CARLTON RD
WATER	Residential	25353453	01-13002	628 E BAY ST
WATER	Residential	25353454	11-01780	691 MARTIN L KING JR AVE
WATER	Residential	25353455	10-07400	1245 W LA ST
WATER	Residential	25353456	13-06220	751 N 6TH AVE
WATER	Residential	25353458	13-06235	627 N 6TH AVE
WATER	Residential	25353459	11-11111	197 DAVIS CT
WATER	Residential	25353460	09-03307	303 S FL AVE
WATER	Residential	25353461	09-05990	1063 WILD TURKEY LN 52
WATER	Residential	25353462	06-13300	117 N OH AVE
WATER	Residential	26665206	13-07500	201 N 6TH AVE
WATER	Residential	26672466	05-03210	906 N FL AVE
WATER	Residential	45664169	13-05015	1460 US HWY 17N WAUCHULA

WATER	Residential	45667111	08-13001	613 S 9TH AVE
WATER	Residential	45667112	07-10010	626 S 7TH AVE
WATER	Residential	45667113	09-09225	707 CROSBY LANE
WATER	Commercial	45667117	13-07195	315 N 6TH AVE
WATER	Residential	45667131	07-14109	135 CARLTON ST 47
WATER	Residential	45667134	08-12525	402 S 9TH AVE
WATER	Residential	45667135	08-13350	324 S 9TH AVE
WATER	Residential	45667138	07-05020	321 S 7TH AVE
WATER	Residential	45667139	04-01015	126 E TOWNSEND ST
WATER	Residential	45667140	11-23155	1081 DOWNING CIR
WATER	Residential	45667146	10-05355	345 CIRCLE DR
WATER	Residential	48084345	09-09345	714 OAK FOREST DR
WATER	Residential	48084348	10-03685	810 PIERCE RD
WATER	Residential	48147832	09-07300	821 HONOLULU DR
WATER	Residential	49889623	14-01560	535 S 6TH AVE SUITE 101
WATER	Residential	62258106	07-07404	911 SEMINOLE ST
WATER	Residential	65494870	06-02100	215 N IN AVE
WATER	Residential	65505395	06-01995	219 N IN AVE
WATER	Residential	66258107	07-09800	718 SEMINOLE ST
WATER	Residential	66258109	10-07036	1002 BRIARWOOD DR
WATER	Residential	66258110	11-09838	317 PARK DR
WATER	Residential	66258111	08-06100	810 S 9TH AVE
WATER	Residential	66258114	06-00902	504 N IN AVE
WATER	Residential	67792359	07-20068	635 S 5TH AVE E105
WATER	Residential	67792361	07-20075	635 S 5TH AVE E204
WATER	Residential	67792363	07-20292	635 S 5TH AVE F205
WATER	Residential	67792364	07-20085	635 S 5TH AVE F106
WATER	Residential	67792365	07-20084	635 S 5TH AVE F105
WATER	Residential	67792366	07-20090	635 S 5TH AVE F203
WATER	Residential	67792367	07-20091	635 S 5TH AVE F204
WATER	Residential	67792368	07-20093	635 S 5TH AVE F206
WATER	Residential	67792369	07-20008	635 S 5TH AVE A201
WATER	Residential	67792370	07-20011	635 S 5TH AVE A204
WATER	Residential	67792371	07-20001	635 S 5TH AVE A102
WATER	Residential	67792372	07-20013	635 S 5TH AVE A206
WATER	Residential	67792381	07-20037	635 S 5TH AVE C106
WATER	Residential	67792382	07-20044	635 S 5TH AVE C205
WATER	Residential	67792383	07-20102	635 S 5TH AVE G107
WATER	Residential	67792386	07-20004	635 S 5TH AVE A105
WATER	Residential	67792390	07-20067	635 S 5TH AVE E104
WATER	Residential	67792396	07-20006	635 S 5TH AVE A107
WATER	Residential	67792397	07-20010	635 S 5TH AVE A203
WATER	Residential	67792399	07-20040	635 S 5TH AVE C201
WATER	Residential	67792400	07-20041	635 S 5TH AVE C202
WATER	Residential	67792401	07-20033	635 S 5TH AVE C102
WATER	Residential	67792402	07-20032	635 S 5TH AVE C101
WATER	Residential	67792403	07-20042	635 S 5TH AVE C203

WATER	Residential	67792409	07-20100	635 S 5TH AVE G105
WATER	Residential	67792410	07-20101	635 S 5TH AVE G106
WATER	Residential	67792411	07-20099	635 S 5TH AVE G104
WATER	Commercial	67792413	07-20104	635 S 5TH AVE
WATER	Residential	67792416	07-20018	635 S 5TH AVE B103
WATER	Residential	67792417	07-20016	635 S 5TH AVE B101
WATER	Residential	67792418	07-20097	635 S 5TH AVE G102
WATER	Residential	67792419	07-20094	635 S 5TH AVE F207
WATER	Residential	67792420	07-20086	635 S 5TH AVE F107
WATER	Residential	67792422	07-20095	635 S 5TH AVE F208
WATER	Residential	67792423	07-20087	635 S 5TH AVE F108
WATER	Residential	67792427	07-20073	635 S 5TH AVE E202
WATER	Residential	67792430	07-20036	635 S 5TH AVE C105
WATER	Residential	67792431	07-20026	635 S 5TH AVE B203
WATER	Residential	67792432	07-20017	635 S 5TH AVE B102
WATER	Residential	67792434	07-20027	635 S 5TH AVE B204
WATER	Residential	67792436	07-20035	635 S 5TH AVE C104
WATER	Residential	67792437	07-20043	635 S 5TH AVE C204
WATER	Residential	67792439	07-20020	635 S 5TH AVE B105
WATER	Residential	67792440	07-20034	635 S 5TH AVE C103
WATER	Residential	67792442	07-20030	635 S 5TH AVE B207
WATER	Residential	67792443	07-20021	635 S 5TH AVE B106
WATER	Residential	67792444	07-20029	635 S 5TH AVE B206
WATER	Residential	67792445	07-20025	635 S 5TH AVE B202
WATER	Residential	67792446	07-20031	635 S 5TH AVE B208
WATER	Residential	67792447	07-20028	635 S 5TH AVE B205
WATER	Residential	67792448	07-20019	635 S 5TH AVE B104
WATER	Commercial	67792449	07-20106	639 S 5TH AVE
WATER	Residential	67792452	07-20046	635 S 5TH AVE C207
WATER	Residential	67792453	07-20038	635 S 5TH AVE C107
WATER	Residential	67792459	07-20023	635 S 5TH AVE B108
WATER	Residential	67792460	07-20081	635 S 5TH AVE F102
WATER	Residential	67792461	07-20088	635 S 5TH AVE F201
WATER	Residential	67792462	07-20089	635 S 5TH AVE F202
WATER	Residential	67792464	07-20082	635 S 5TH AVE F103
WATER	Residential	67792465	07-20080	635 S 5TH AVE F101
WATER	Residential	68786316	02-00325	105 N 3RD AVE A102
WATER	Residential	68985750	12-03220	114 N 7TH AVE
WATER	Residential	70241287	14-04250	338 STENSTROM RD
WATER	Residential	73678488	10-07043	1025 BRIARWOOD DR
WATER	Residential	73678492	01-06500	112 INGLIS WAY
WATER	Residential	73678494	12-03220	114 N 7TH AVE
WATER	Residential	73678495	11-10200	820 HEARD BRIDGE RD
WATER	Residential	74600516	10-07151	291 TERRELL RD GROVE
WATER	Residential	74600517	03-09304	804 N 8TH AVE
WATER	Residential	74600519	10-07058	1012 BRIARWOOD DR
WATER	Residential	74600696	05-03120	902 N 9TH AVE

WATER	Residential	74600700	07-15109	125 CARLTON 39
WATER	Residential	74600701	01-14300	510 E ORANGE ST
WATER	Residential	74600705	02-06604	321 N TURNER AVE
WATER	Residential	74600706	03-09410	810 N 8TH AVE
WATER	Residential	74600710	08-00501	207 S 8TH AVE
WATER	Residential	74600711	08-01300	311 S 8TH AVE
WATER	Residential	74600713	11-22900	1149 DOWNING CIR
WATER	Residential	75523881	09-00610	312 S 11TH AVE
WATER	Residential	75523882	09-05770	1034 HUMMINGBIRD LN 18
WATER	Residential	75523884	05-02303	309 GOOLSBY ST
WATER	Residential	75523889	12-14905	1101 S 6TH AVE
WATER	Residential	75523895	01-06801	104 INGLIS WAY
WATER	Residential	75523899	05-07102	306 N FL AVE
WATER	Residential	76222819	10-03181	1022 MAGNOLIA LN
WATER	Residential	76222820	14-03195	1086 MAKOWSKI RD
WATER	Residential	76222824	02-02100	203 N RUST AVE
WATER	Residential	76222828	09-06600	708 HONOLULU DR
WATER	Residential	76222829	03-03200	716 N 7TH AVE
WATER	Residential	76222841	04-00365	331 RIVERCHASE CIR
WATER	Residential	76634282	07-15507	125 CARLTON ST 36
WATER	Residential	76634287	10-07040	1003 BRIARWOOD DRIVE
WATER	Residential	76634299	05-05600	310 N 10TH AVE
WATER	Residential	76634492	13-05016	1456 US HWY 17 NORTH
WATER	Residential	76634493	01-06470	111 INGLIS WAY
WATER	Residential	080184730	06-01298	609 N PA AVE
WATER	Residential	80184732	06-01517	612 IL AVE
WATER	Residential	80184737	11-22791	1153 DOWNING CIRCLE
WATER	Residential	80184740	10-05358	338 CIRCLE DR
WATER	Residential	80184742	12-07206	215 W ORANGE ST
WATER	Residential	80184748	13-05171	1430 US HWY 17 N
WATER	Residential	80503388	07-06424	120 W GRAPEFRUIT ST
WATER	Residential	80503390	13-05174	1434 US HWY 17 N
WATER	Residential	80503391	13-05178	1438 US HWY 17 N
WATER	Residential	80745042	09-05655	985 S FL AVE
WATER	Residential	80745048	12-05705	402 W MAIN ST
WATER	Residential	80745055	11-22870	1145 DOWNING CIR
WATER	Residential	80745056	13-05029	1520 US HWY 17 N
WATER	Residential	80745057	07-06422	124 W GRAPEFRUIT ST
WATER	Residential	80745058	10-07550	1712 DOYLE CARLTON AVE
WATER	Residential	80745061	06-01521	915 W TN ST
WATER	Residential	81465770	05-03240	909 N 9TH AVE
WATER	Residential	81465775	12-10176	118 W ORANGE ST
WATER	Residential	81465785	02-01900	207 N RUST AVE
WATER	Residential	81465789	02-05801	211 N 1ST AVE
WATER	Residential	81465793	12-14884	431 CARLTON ST
WATER	Residential	81465797	10-07056	1009 BRIARWOOD DR
WATER	Residential	82026348	07-10600	203 W SHORT ST

WATER	Residential	82026351	11-22801	1157 DOWNING CIR
WATER	Residential	82026352	12-14882	465 CARLTON ST
WATER	Residential	82026354	06-06900	525 N PA AVE
WATER	Residential	82026356	14-03391	108 CARLTON ST
WATER	Residential	82026359	07-10117	630 S 7TH AVE
WATER	Residential	82026365	02-09605	322 HEARD BRIDGE RD
WATER	Residential	82026366	03-00400	110 E OAK ST
WATER	Residential	82026367	10-03667	1220 STENSTROM RD
WATER	Residential	82026369	14-04200	117 W BAY ST
WATER	Residential	82026370	04-00755	700 E TOWNSEND ST 7
WATER	Residential	82026372	05-08180	410 N FL AVE
WATER	Residential	82026376	07-14904	125 CARLTON ST 42
WATER	Residential	82454185	03-04400	205 W SOUTHERLAND ST
WATER	Residential	83085092	13-05011	1468 US HWY 17N
WATER	Residential	83085098	09-03700	417 S FL AVE
WATER	Residential	84051234	11-13820	197 GEORGETOWN LOOP
WATER	Residential	84051237	13-06225	765 N 6TH AVE
WATER	Commercial	84051334	14-02200	661 S 6TH AVE
WATER	Residential	84051335	11-21570	1015 S 9TH AVE 7
WATER	Residential	84051344	05-05901	402 W LA ST
WATER	Residential	84051349	09-09201	704 S FL AVE
WATER	Residential	84202591	11-10910	178 MYRTLE DR
WATER	Residential	84487134	05-10223	805 N FL AVE
WATER	Residential	84487237	13-00901	160 GRIFFIN RD
WATER	Residential	84487242	11-10520	1009 N 8TH AVE
WATER	Residential	84487246	02-07200	312 N SHELTON AVE
WATER	Residential	85511353	03-03300	814 N 7TH AVE
WATER	Residential	90367182	03-02800	602 N 7TH AVE
WATER	Residential	90367186	02-07280	213 N 2ND AVE
WATER	Residential	90367188	13-05061	114-116 HEARTLAND WAY
WATER	Residential	90367189	12-02301	106 N 6TH AVE
WATER	Residential	90367190	12-04803	210 W MAIN ST
WATER	Residential	90367192	02-09300	314 HEARD BRIDGE RD
WATER	Residential	90367194	08-01909	505 S 8TH AVE
WATER	Residential	90367197	02-06351	501 E OAK ST
WATER	Residential	90367198	13-05014	1476 US HWY 17N
WATER	Residential	90504670	04-00730	700 E TOWNSEND ST 2
WATER	Residential	90591647	11-23145	1089 DOWNING CIR
WATER	Residential	90591648	07-11050	217 W SHORT ST
WATER	Residential	90591649	07-06673	1051 DOWNING CIR 107
WATER	Residential	91288895	06-09700	530 IL AVE
WATER	Residential	91288896	02-01075	504 E PALMETTO ST
WATER	Residential	91288897	05-01801	314 W GA ST
WATER	Residential	91288898	09-06070	743 SANDPIPER DR 61
WATER	Residential	91288901	07-14003	135 CARLTON ST 49
WATER	Residential	91288902	05-08191	405 W GA ST
WATER	Residential	91288908	01-16600	116 S 2ND AVE

WATER	Residential	91288909	07-06750	309 CARLTON ST 4
WATER	Residential	91288910	03-07850	211 W GA ST
WATER	Residential	91308660	06-09351	312 IL AVE
WATER	Residential	91832044	01-07200	602 E MAIN ST
WATER	Residential	92034093	14-03240	1032 S 6TH AVE
WATER	Residential	92166482	11-21510	1003 S 9TH AVE 1
WATER	Residential	92166485	02-07360	304 HEARD BRIDGE RD
WATER	Residential	92166487	07-06807	309 CARLTON ST 10
WATER	Residential	92166491	12-14911	1103 S 6TH AVE 102
WATER	Residential	92166495	06-13500	111 N OH AVE
WATER	Residential	92166496	05-01325	309 W GA ST
WATER	Residential	92166497	11-10101	808 HEARD BRIDGE RD
WATER	Residential	93254368	09-00700	313 S 11TH AVE
WATER	Residential	93254372	07-06800	309 CARLTON ST 9
WATER	Residential	93254375	13-10331	1230 W LA ST
WATER	Residential	93254377	07-18409	1050 MAKOWSKI RD 8
WATER	Residential	94262046	05-10900	401 N FL AVE
WATER	Commercial	94262048	13-05560	1007 N 6TH AVE SUITE 1
WATER	Residential	94262050	07-06420	130 W GRAPEFRUIT ST
WATER	Residential	94262051	12-11594	101 W MAIN ST
WATER	Residential	94262052	11-02050	705 MARTIN L KING JR AVE
WATER	Residential	94262055	09-08520	821 HAWAIIAN DR
WATER	Residential	94640434	14-08695	107 HANCHEY RD
WATER	Residential	94640435	13-02200	136 E TOWNSEND ST
WATER	Residential	94640436	12-10120	114 W ORANGE ST
WATER	Residential	94640437	07-13409	135 CARLTON 55
WATER	Residential	94640439	05-02600	616 N 9TH AVE
WATER	Residential	94640441	14-09225	1531 STENSTROM RD
WATER	Residential	94817067	04-00405	315 RIVERCHASE CIR
WATER	Residential	94817069	02-00900	401 E MAIN ST
WATER	Residential	94817070	13-05013	1472 US HWY 17N
WATER	Residential	94817072	14-01400	515 S 6TH AVE
WATER	Residential	99456846	10-07080	1027 BRIARWOOD DR
WATER	Residential	99456851	06-08502	808 W MAIN ST
WATER	Residential	99456874	05-06200	410 N 10TH AVE
WATER	Residential	99456876	01-18560	208 E BAY ST
WATER	Residential	99456878	04-00106	367 EASON DR
WATER	Residential	99456880	07-11200	222 W SHORT ST
WATER	Residential	99456881	06-08600	812 W MAIN ST
WATER	Residential	99503953	02-11600	323 HEARD BRIDGE RD
WATER	Residential	99503954	10-01880	1321 TANGELO DR
WATER	Residential	99503959	07-12901	210 S 7TH AVE
WATER	Residential	99503960	02-09502	320 HEARD BRIDGE RD
WATER	Residential	99503965	13-05060	1087 HWY 17 N
WATER	Residential	99503966	12-02800	103 E MAIN ST
WATER	Residential	99503967	02-00825	118 N 3RD AVE
WATER	Residential	99503969	10-07070	1031 BRIARWOOD DR

WATER	Residential	99503982	08-02002	509 S 8TH AVE
WATER	Residential	99524343	04-00205	352 RIVERCHASE CIR
WATER	Residential	99524345	04-00250	392 RIVERCHASE CIR
WATER	Residential	99524346	04-00230	362 RIVERCHASE CIR
WATER	Residential	99524347	04-00240	396 RIVERCHASE CIR
WATER	Residential	99524348	04-00220	358 RIVERCHASE CIR
WATER	Residential	99524349	04-00185	344 RIVERCHASE CIR
WATER	Residential	99524351	04-00265	372 RIVERCHASE CIR
WATER	Residential	99524353	04-00395	319 RIVERCHASE CIR
WATER	Residential	99524354	04-00380	325 RIVERCHASE CIR
WATER	Residential	99524356	04-00195	348 RIVERCHASE CIR
WATER	Residential	99524357	04-00270	374 RIVERCHASE CIR
WATER	Residential	99524358	04-00235	398 RIVERCHASE CIR
WATER	Residential	99524359	04-00385	323 RIVERCHASE CIR
WATER	Residential	99524360	04-00415	311 RIVERCHASE CIR
WATER	Residential	99524363	04-00370	329 RIVERCHASE CIR
WATER	Residential	99524364	04-00260	370 RIVERCHASE CIR
WATER	Residential	99524366	04-00400	317 RIVERCHASE CIR
WATER	Residential	99524368	04-00280	378 RIVERCHASE CIR
WATER	Residential	99524372	04-00290	375 RIVERCHASE CIR
WATER	Residential	99524373	04-00200	350 RIVERCHASE CIR
WATER	Residential	99524375	04-00225	360 RIVERCHASE CIR
WATER	Residential	99524382	04-00285	377 RIVERCHASE CIR
WATER	Residential	99524387	04-00245	394 RIVERCHASE CIR
WATER	Residential	99524392	04-00300	371 RIVERCHASE CIR
WATER	Residential	99544381	04-00410	313 RIVERCHASE CIR
WATER	Residential	105500534	07-06100	709 S 7TH AVE
WATER	Residential	110398320	02-06202	212 N 2ND AVE
WATER	Residential	201203263	12-11402	109 W MAIN ST
WATER	Residential	201203265	12-11300	111 W MAIN ST
WATER	Residential	201203266	01-06480	109 INGLIS WAY
WATER	Residential	201203283	04-00160	303 EASON DR
WATER	Residential	212047346	10-03008	490 HANCHEY RD
WATER	Residential	212047347	10-01000	157 HANCHEY RD
WATER	Residential	212047348	10-07038	1013 BRIARWOOD
WATER	Residential	212047349	10-07693	1624 THOMPSON RD
WATER	Residential	212047351	10-00850	148 HANCHEY RD
WATER	Residential	212047352	02-01450	715 E MAIN ST
WATER	Residential	212047353	08-03911	826 S 8TH AVE
WATER	Residential	212047354	07-12401	212 S 7TH AVE 1
WATER	Residential	212047356	08-04901	807 S 9TH AVE
WATER	Residential	212047357	06-01240	705 W KY ST
WATER	Residential	212047358	10-02220	378 HANCHEY RD
WATER	Residential	212047359	10-07440	313 HIDDEN CREEK CIR
WATER	Residential	212047361	10-02221	384 HANCHEY RD
WATER	Residential	212047363	09-08700	805 HAWAIIAN DR
WATER	Residential	212047365	09-01820	515 S 11TH AVE

WATER	Residential	212047367	07-20002	635 S 5TH AVE A103
WATER	Residential	212047370	11-09979	274 GARDEN DR
WATER	Residential	212047372	06-01271	705 IL AVE
WATER	Residential	212047374	02-09403	314 HEARD BRIDGE RD APT
WATER	Residential	212047375	07-06644	1051 DOWNING CIR 104
WATER	Residential	212047376	01-10916	411 S TULANE AVE
WATER	Residential	212047378	10-07445	343 HIDDEN CREEK CIR
WATER	Residential	212047380	02-07250	411 E OAK ST
WATER	Residential	212047381	04-00165	305 EASON DR
WATER	Residential	212124500	12-04312	117 N 7TH AVE 201
WATER	Residential	212124501	11-21630	1023 S 9TH AVE 11
WATER	Residential	212124502	10-07485	283 HIDDEN CREEK CIR
WATER	Residential	212124503	02-06700	325 N TURNER AVE
WATER	Residential	212124505	10-07204	1001 W LA ST
WATER	Residential	212124506	10-07475	275 HIDDEN CREEK CIR
WATER	Residential	212124508	08-08704	610 S 10TH AVE
WATER	Residential	212124509	04-01125	310 N 4TH AVE
WATER	Residential	212124514	10-07208	1005 W LA ST
WATER	Residential	212124515	03-11314	301 GEORGIA ST
WATER	Residential	212124516	11-22790	1156 DOWNING CIR
WATER	Residential	212124518	06-01200	702 W TN ST
WATER	Residential	212124519	05-03146	1009 N 9TH AVE
WATER	Residential	212124520	06-13600	1004 W MAIN ST
WATER	Residential	212124521	10-06250	1306 CITRUS ST
WATER	Residential	212124522	11-21589	1017 S 9TH AVE 8
WATER	Residential	212124524	11-06200	319 RIVERSIDE DR
WATER	Residential	212124526	11-05801	311 RIVERSIDE DR
WATER	Residential	212124527	11-09928	312 GARDEN DR
WATER	Residential	212124529	12-06901	107 S 9TH AVE
WATER	Residential	212124530	09-07203	804 AVENTINA AVE
WATER	Residential	212124531	10-03332	1065 KNOLLWOOD CIR
WATER	Residential	212124532	02-06404	311 N TURNER AVE
WATER	Residential	212124533	08-15002	401 S 10TH AVE B
WATER	Residential	212302470	12-11201	113 W MAIN ST
WATER	Residential	212302474	10-03751	665 HANCHEY RD
WATER	Residential	212302478	08-05200	813 S 9TH AVE
WATER	Residential	212302480	01-09600	703 E BAY ST
WATER	Residential	212302484	06-10350	411 IL AVE
WATER	Residential	212302490	14-03360	910 S 6TH AVE
WATER	Residential	212302494	04-00075	708 E OAK ST
WATER	Residential	212304235	10-03350	1082 KNOLLWOOD CIR
WATER	Residential	212304236	06-10808	317 IL AVE
WATER	Residential	212304237	10-07674	745 ALTMAN RD
WATER	Residential	212304238	11-09600	313 PARK DR
WATER	Residential	212304243	02-00875	108 N 3RD AVE
WATER	Residential	212304253	07-15701	125 CARLTON ST 34
WATER	Residential	212304254	08-15502	421 S 10TH AVE

WATER	Residential	212304255	07-15605	125 CARLTON ST 33
WATER	Residential	212304256	14-01010	323 S 6TH AVE
WATER	Residential	212304258	11-10641	415 AMANDA LN
WATER	Residential	212304259	11-11201	529 POLK RD
WATER	Residential	212304260	08-10900	400 S 8TH AVE
WATER	Residential	212304261	05-03260	905 N 9TH AVE
WATER	Residential	212304262	02-01050	406 E PALMETTO ST
WATER	Residential	212304263	08-01402	315 S 8TH AVE
WATER	Residential	212304264	08-05800	816 S 9TH AVE
WATER	Residential	212304265	03-09000	708 N 8TH AVE
WATER	Residential	212304266	13-09300	300 N FL AVE
WATER	Residential	212304267	06-01270	710 IL AVE
WATER	Residential	212304268	02-00925	405 E MAIN ST
WATER	Residential	212304269	14-04052	502 S 6TH AVE
WATER	Residential	212304270	11-09929	314 GARDEN DR
WATER	Residential	212304271	07-09300	706 S 7TH AVE
WATER	Residential	212304273	02-04100	307 N DIANA AVE
WATER	Residential	212304274	02-05506	308 N TURNER AVE
WATER	Residential	212304275	11-09850	308 PARK DR
WATER	Residential	212304294	11-09011	213 PARK DR
WATER	Residential	212304295	07-06425	114 W GRAPEFRUIT ST
WATER	Residential	212304296	09-09230	715 CROSBY LANE
WATER	Residential	212304297	07-19500	527 S 6TH AVE
WATER	Residential	212304298	01-17104	408 E MAIN ST
WATER	Residential	212304299	05-01000	416 N 9TH AVE
WATER	Residential	212304300	09-09357	702 OAK FOREST DR
WATER	Residential	212304301	11-13810	185 GEORGETOWN LOOP
WATER	Residential	212304302	10-07464	385 HIDDEN CREEK CIR
WATER	Residential	212304304	04-00090	373 EASON DR
WATER	Residential	212304305	02-00176	105 N 3RD AVE G101
WATER	Residential	212304308	14-04070	404 S 6TH AVE
WATER	Residential	212304310	07-13801	135 CARLTON ST 51
WATER	Residential	212304311	02-01250	113 N 1ST AVE
WATER	Residential	212304312	05-10280	605 W KY ST
WATER	Residential	212304313	05-03140	910 N 9TH AVE
WATER	Residential	212304314	10-04351	1367 LISA DR
WATER	Residential	212304315	11-00121	601 S 1ST AVE
WATER	Residential	212304317	07-10009	709 SEMINOLE ST
WATER	Residential	212304318	07-06426	116 W GRAPEFRUIT ST
WATER	Residential	212304319	03-10600	611 N 8TH AVE
WATER	Residential	212304320	01-12200	618 SAUNDERS ST
WATER	Residential	212304321	05-09210	414 W TOWNSEND ST
WATER	Residential	212304323	10-02250	1424 BLAIR LANE
WATER	Residential	212304324	11-04800	217 RIVERSIDE DR
WATER	Residential	212304325	11-22726	1182 DOWNING CIR
WATER	Residential	212304327	10-07044	1024 BRIARWOOD DR
WATER	Residential	212304328	04-02190	762 LA PLAYA DR

WATER	Residential	212304329	12-11600	105 W MAIN ST
WATER	Residential	212304331	10-07476	301 HIDDEN CREEK CIR
WATER	Residential	212304333	09-07300	821 HONOLULU DR
WATER	Residential	212304334	10-07207	1017 W LA ST
WATER	Residential	212304337	10-06900	1410 W MAIN ST
WATER	Residential	212304339	04-00825	700 E TOWNSEND ST 21
WATER	Residential	212304525	03-08250	205 GOOLSBY ST
WATER	Residential	212360433	13-06802	409 N 6TH AVE
WATER	Residential	252487252	07-20064	635 S 5TH AVE E101
WATER	Residential	253553324	07-20079	635 S 5TH AVE E208
WATER	Residential	255242990	11-09112	219 PARK DR
WATER	Commercial	677792451	07-20104	635 S 5TH AVE
WATER	Residential	687706682	12-10402	131 W MAIN ST MAIN
WATER	Residential	@8317319	08-12723	517 S 9TH AVE
WATER	Residential	@99503963	14-03470	806 S 6TH AVE
WATER	Residential	@G006294	10-03460	1070 KNOLLWOOD CIR
WATER	Residential	@P513956	14-07020	1020 MAKOWSKI RD
WATER	Residential	@T511520	09-09333	718 OAK FOREST DR
WATER	Residential	@T523596	08-12900	609 S 9TH AVE
WATER	Residential	1B825417	12-05103	222 W MAIN ST
WATER	Residential	A007362	14-08196	315 S FL AVE
WATER	Commercial	A0110458	13-05600	202 BELL ST
WATER	Residential	A011395	09-06250	810 S FL AVE
WATER	Residential	A011412	09-04003	509 S FL AVE
WATER	Residential	A011426	09-08201	808 HAWAIIAN DR
WATER	Residential	A011427	08-15200	405 S 10TH AVE
WATER	Residential	A011428	09-00170	214 S 10TH AVE
WATER	Residential	A119041	02-07130	323 N SHELTON AVE
WATER	Residential	A19017	06-13900	705 W MAIN ST
WATER	Residential	A19064	06-14300	110 S FL AVE
WATER	Residential	B042005	10-03230	1037 MAGNOLIA LN
WATER	Residential	B042006	10-03262	1067 MAGNOLIA LN
WATER	Residential	B042270	01-06590	107 INGLIS WAY
WATER	Residential	B042271	01-06211	817 E MAIN ST 1A
WATER	Residential	B042272	01-06227	817 E MAIN ST 1B
WATER	Residential	B069727	12-06180	132 S 10TH AVE
WATER	Residential	B070463	09-00105	507 HIGH ST
WATER	Residential	B070491	10-03150	1055 KNOLLWOOD CIR
WATER	Residential	B077745	06-04018	310 N PA AVE
WATER	Residential	B529024	11-21708	1018 S 9TH AVE 5
WATER	Residential	B624673	04-00115	709 E OAK ST
WATER	Residential	C016204	05-12100	207 N FL AVE
WATER	Residential	C016206	02-06800	329 N TURNER AVE
WATER	Residential	C016256	05-03200	425 BELL ST
WATER	Residential	E520034	07-06756	309 CARLTON ST 5
WATER	Commercial	E520049	13-02000	408 HEARD BRIDGE RD
WATER	Residential	E520055	05-02504	612 N 9TH AVE

WATER	Residential	E565235	08-10409	606 S 8TH AVE
WATER	Residential	E565368	10-03312	1062 ASPEN LANE
WATER	Residential	E565437	02-07110	324 N SHELTON AVE
WATER	Residential	E565468	02-07290	203 N 2ND AVE
WATER	Residential	E565490	06-07407	315 N PA AVE
WATER	Residential	E566234	01-16400	122 S 2ND AVE
WATER	Residential	E566242	04-00170	307 EASON DR
WATER	Residential	E566248	02-07100	341 N TURNER AVE
WATER	Residential	E580702	07-06681	1051 DOWNING CIR 108
WATER	Residential	E580703	07-06630	1051 DOWNING CIR 102
WATER	Residential	E610282	02-04400	319 N DIANA AVE
WATER	Residential	F007549	06-08103	804 W PALMETTO ST
WATER	Residential	F023077	14-04501	234 S 6TH AVE
WATER	Residential	F808338	07-06699	1051 DOWNING CIR 110
WATER	Residential	F808343	11-10897	191 MYRTLE ST
WATER	Residential	F808345	10-03110	1015 KNOLLWOOD CIR
WATER	Residential	F808371	13-02360	334A N 4TH AVE
WATER	Residential	F808410	01-18000	117 S 3RD AVE
WATER	Residential	F816893	13-09500	514-20 N FL AVE
WATER	Residential	F831965	13-02321	331 N 4TH AVE
WATER	Residential	F850195	10-03511	1222 ASPEN LANE
WATER	Residential	F8700411	02-05614	510A E OAK ST
WATER	Residential	F870333	12-07903	225 W MAIN ST
WATER	Residential	F870346	05-03170	401 BELL ST
WATER	Residential	F870366	05-05903	411 W LA ST
WATER	Residential	F870368	08-11700	208 S 8TH AVE
WATER	Residential	F870369	08-00400	205 S 8TH AVE
WATER	Commercial	F870379	13-07040	315 N 6TH AVE
WATER	Residential	F870382	02-07330	408 E OAK ST
WATER	Residential	F870383	05-03191	907 N 9TH AVE
WATER	Residential	F870412	02-05626	510B E OAK ST
WATER	Residential	F870479	02-07150	319 N SHELTON AVE
WATER	Residential	F870480	02-07140	321 N SHELTON AVE
WATER	Residential	F870481	02-07170	315 N SHELTON AVE
WATER	Residential	F870484	02-02360	704 E PALMETTO ST
WATER	Residential	F870705	09-09340	803 SHADY NOOK CIR
WATER	Residential	F897740	03-10008	306 W SOUTHERLAND ST
WATER	Residential	F897745	13-06908	401 N 6TH AVE
WATER	Commercial	F897747	13-07090	315 N 6TH AVE TAX COLLEC
WATER	Residential	F897748	09-09210	712 CROSBY LN
WATER	Residential	F897751	12-12005	106 E MAIN ST
WATER	Residential	F897758	11-10480	210 BELL ST
WATER	Residential	F897759	02-04701	335 N DIANA AVE
WATER	Residential	F897762	09-08591	817 HAWAIIAN DR
WATER	Residential	F897763	03-04000	215 POLK RD
WATER	Residential	F897786	06-08703	108 IL AVE
WATER	Commercial	F921831	13-07010	316 N 7TH AVE

WATER	Commercial	F921832	13-07175	315 N 6TH AVE
WATER	Residential	F921857	05-10700	513 N FL AVE
WATER	Residential	F923104	14-04400	306 S 6TH AVE
WATER	Residential	F923107	03-08603	612 N 8TH AVE
WATER	Commercial	F923112	13-07060	317 N 7TH AVE
WATER	Residential	F925519	05-00300	218 N 9TH AVE
WATER	Residential	F925554	05-08400	510 N FL AVE
WATER	Residential	F925557	06-02902	712 W MAIN ST
WATER	Residential	G006280	06-03700	224 N PA AVE
WATER	Residential	G006293	09-00070	420 S 10TH AVE
WATER	Commercial	G006316	13-07160	315 N 6TH AVE
WATER	Residential	G018324	05-10241	801 N FL AVE
WATER	Residential	H031639	10-04202	1354 LISA DR
WATER	Residential	H031643	13-09560	607 W TN ST
WATER	Residential	H046432	07-04700	219 S 7TH AVE
WATER	Residential	H046433	07-18801	1050 MAKOWSKI RD 4
WATER	Residential	H046434	08-12100	205 S 9TH AVE
WATER	Residential	H046436	10-04000	1336 LISA DR
WATER	Residential	H046450	05-03230	408 POLK RD
WATER	Commercial	H046451	13-01900	402 HEARD BRIDGE RD
WATER	Residential	H046453	09-04200	519 S FL AVE
WATER	Residential	J093614	09-03950	503 S FL AVE
WATER	Residential	J103316	14-02820	905 S 6TH AVE
WATER	Residential	J103319	07-06663	1051 DOWNING CIR 106
WATER	Residential	J103321	07-18603	1050 MAKOWSKI RD 5
WATER	Residential	J103322	07-15906	1020 MAKOWSKI RD 28
WATER	Residential	J103404	08-11400	220 S 8TH AVE
WATER	Residential	J103405	11-10580	308 BELL ST
WATER	Residential	J103406	09-00400	505 W BAY ST
WATER	Residential	J118689	09-09331	713 OAK FOREST DR
WATER	Residential	M010727	10-03171	1030 MAGNOLIA LN
WATER	Residential	M010731	02-04200	311 N DIANA AVE
WATER	Residential	M010795	11-23060	1118 DOWNING CIR
WATER	Residential	M010797	10-03755	653 HANCHEY RD
WATER	Residential	M010801	01-16700	112 S 2ND AVE
WATER	Residential	M010811	07-10100	616 S 7TH AVE
WATER	Residential	M010824	05-02400	316 GOOLSBY ST
WATER	Residential	M010830	06-12800	904 W MAIN ST
WATER	Residential	M010831	02-02641	615 E OAK ST
WATER	Residential	M010833	05-10237	803 N FL AVE
WATER	Commercial	NO NUMBER	13-09600	810 W TN ST
WATER	Residential	P502475	06-08350	802 W MAIN ST
WATER	Residential	P502476	07-11302	218 W SHORT ST
WATER	Residential	P502479	14-04300	306 S 6TH AVE
WATER	Residential	P502494	03-04100	811 N 7TH AVE
WATER	Residential	P502566	05-05501	302 N 10TH AVE
WATER	Residential	P502567	03-05901	204 W LA ST

WATER	Commercial	P502570	13-01910	408 HEARD BRIDGE RD
WATER	Residential	P502585	12-05250	112 N 8TH AVE
WATER	Residential	P502588	12-05200	226 W MAIN ST
WATER	Residential	P513492	04-00840	700 E TOWNSEND ST 24
WATER	Residential	P513495	04-00820	700 E TOWNSEND ST 20
WATER	Residential	P513496	04-00810	700 E TOWNSEND ST 18
WATER	Residential	P513497	04-00815	700 E TOWNSEND ST 19
WATER	Residential	P513594	04-00765	700 E TOWNSEND ST 9
WATER	Residential	P513595	04-00795	700 E TOWNSEND ST 15
WATER	Residential	P513596	04-00735	700 E TOWNSEND ST 3
WATER	Residential	P513597	04-00740	700 E TOWNSEND ST 4
WATER	Residential	P513598	04-00745	700 E TOWNSEND ST 5
WATER	Residential	P513648	13-07220	101 W OAK ST
WATER	Residential	P513651	14-08810	322 HANCHEY RD
WATER	Residential	P513661	04-00800	700 E TOWNSEND ST 16
WATER	Residential	P513664	04-00830	700 E TOWNSEND ST 22
WATER	Residential	P513665	04-00875	700 E TOWNSEND ST 30
WATER	Residential	P513786	03-10300	707 N 8TH AVE
WATER	Residential	P513792	04-00935	700 E TOWNSEND ST 42
WATER	Residential	P513793	04-00920	700 E TOWNSEND ST 39
WATER	Residential	P513794	04-00930	700 E TOWNSEND ST 41
WATER	Residential	P513796	04-00950	700 E TOWNSEND ST 45
WATER	Residential	P513797	04-00955	700 E TOWNSEND ST 46
WATER	Residential	P513821	06-03400	210 N PA AVE
WATER	Residential	P513828	04-00975	700 E TOWNSEND ST 50
WATER	Residential	P513829	04-00985	700 E TOWNSEND ST 52
WATER	Residential	P513830	04-00940	700 E TOWNSEND ST 43
WATER	Residential	P513831	04-00980	700 E TOWNSEND ST 51
WATER	Residential	P513832	04-00945	700 E TOWNSEND ST 44
WATER	Residential	P513833	04-00970	700 E TOWNSEND ST 49
WATER	Residential	P513864	04-00965	700 E TOWNSEND ST 48
WATER	Residential	P513865	04-00860	700 E TOWNSEND ST 27
WATER	Residential	P513866	04-00880	700 E TOWNSEND ST 31
WATER	Residential	P513867	04-00960	700 E TOWNSEND ST 47
WATER	Residential	P513869	04-00865	700 E TOWNSEND ST 28
WATER	Residential	P513870	04-00760	700 E TOWNSEND ST 8
WATER	Residential	P513871	04-00750	700 E TOWNSEND ST 6
WATER	Residential	P513888	04-00785	700 E TOWNSEND ST 13
WATER	Residential	P513890	04-00915	700 E TOWNSEND ST 38
WATER	Residential	P513891	04-00775	700 E TOWNSEND ST 11
WATER	Residential	P513892	04-00790	700 E TOWNSEND ST 14
WATER	Residential	P513893	04-00780	700 E TOWNSEND ST 12
WATER	Residential	P513955	07-10550	504 S 7TH AVE
WATER	Residential	P513959	03-11300	505 N 8TH AVE
WATER	Residential	P513961	04-00890	700 E TOWNSEND ST 33
WATER	Residential	P513962	04-00885	700 E TOWNSEND ST 32
WATER	Residential	P513963	04-00905	700 E TOWNSEND ST 36

WATER	Residential	P520464	04-00725	700 E TOWNSEND ST 1
WATER	Residential	P921860	04-01010	130 E TOWNSEND ST
WATER	Residential	R201669	06-01518	609 IL AVE
WATER	Residential	R201670	07-06619	1051 DOWNING CIR 101
WATER	Residential	R201671	03-05601	501 N 7TH AVE
WATER	Residential	R201673	05-09400	412 W SOUTHERLAND ST
WATER	Residential	R201705	12-10106	511 S 7TH AVE
WATER	Residential	R201708	01-06495	103 INGLIS WAY
WATER	Residential	R201709	06-07150	401 N PA AVE
WATER	Residential	R201742	08-13400	320 S 9TH AVE
WATER	Residential	R201751	14-03420	116 CARLTON ST
WATER	Commercial	R201752	14-02300	653 S 6TH AVE
WATER	Residential	R207854	11-13875	272 GEORGETOWN LOOP
WATER	Residential	R211842	04-02115	731 LA PLAYA DR
WATER	Residential	R211851	04-02120	733 LA PLAYA DR
WATER	Residential	R212669	14-01550	541 S 6TH AVE
WATER	Residential	R212671	02-07000	337 N TURNER AVE
WATER	Residential	R212673	14-04114	322 S 6TH AVE
WATER	Residential	R217413	04-00155	301 EASON DR
WATER	Commercial	R217416	13-08410	320 N 9TH AVE
WATER	Residential	R217420	07-15202	125 CARLTON ST 37
WATER	Residential	R217447	06-01530	916 W TN ST
WATER	Commercial	R217449	13-08425	320 N 9TH AVE
WATER	Residential	R217450	11-13853	253 GEORGETOWN LOOP
WATER	Residential	R217452	11-23030	1105 DOWNING CIR
WATER	Residential	R225796	08-01650	229 W SHORT ST
WATER	Residential	R225850	11-13847	225 GEORGETOWN LOOP
WATER	Residential	R225851	06-07650	225 N PA AVE
WATER	Residential	R225852	07-15009	125 CARLTON ST 40
WATER	Residential	R225853	14-04110	326 S 6TH AVE
WATER	Residential	R225874	11-10510	1010 N 8TH AVE
WATER	Residential	R225876	09-09348	706 OAK FOREST DR
WATER	Residential	R225877	11-13870	280 GEORGETOWN LOOP
WATER	Residential	R225882	01-14000	515 E BAY ST
WATER	Residential	R225884	05-08020	507 W PALMETTO ST
WATER	Residential	S12520	11-22750	1168 DOWNING CIR
WATER	Residential	S334966	04-00175	318 RIVERCHASE CIR
WATER	Residential	S334967	04-00310	361 RIVERCHASE CIR
WATER	Residential	S334971	04-00330	353 RIVERCHASE CIR
WATER	Residential	S334972	04-00355	341 RIVERCHASE CIR
WATER	Residential	S334973	04-00315	359 RIVERCHASE CIR
WATER	Residential	S334975	04-00345	345 RIVERCHASE CIR
WATER	Residential	S334988	04-00305	363 RIVERCHASE CIR
WATER	Residential	S334990	04-00335	349 RIVERCHASE CIR
WATER	Residential	S334993	04-00350	343 RIVERCHASE CIR
WATER	Residential	S335012	04-00325	355 RIVERCHASE CIR
WATER	Residential	S512519	13-08500	312 W LA ST

WATER	Residential	S512729	05-03340	406 W SOUTHERLAND ST
WATER	Residential	S512734	08-14670	309 S 10TH AVE
WATER	Residential	S512735	14-07350	1002 S 9TH AVE
WATER	Residential	S512737	05-03350	405 W SOUTHERLAND ST
WATER	Residential	S512738	14-07375	419 CARLTON ST
WATER	Residential	S512739	06-10553	402 N OH AVE
WATER	Residential	S512740	05-03320	803 N 9TH AVE
WATER	Commercial	S526438	13-00620	213A-B E ORANGE ST
WATER	Residential	S526441	10-05330	428 CIRCLE DR
WATER	Residential	S526442	09-07001	816 HONOLULU DR
WATER	Residential	S526444	05-08030	119 N 10TH AVE A
WATER	Residential	S526446	06-10532	906 W LA ST
WATER	Residential	S526447	06-09400	813 W LA ST
WATER	Residential	S526448	06-07458	313 N PA AVE
WATER	Residential	S526449	07-11500	214 W SHORT ST
WATER	Residential	S526474	07-17702	1040 MAKOWSKI RD 14
WATER	Residential	S526477	03-05700	409 N 7TH AVE
WATER	Residential	S526479	05-12800	107 N FL AVE
WATER	Residential	S526529	05-12501	113 N FL AVE
WATER	Residential	S526533	03-10200	711 N 8TH AVE
WATER	Residential	T509211	08-15400	415 S 10TH AVE
WATER	Residential	T509213	06-01536	910 W AL ST
WATER	Residential	T509216	06-01540	908 W AL ST
WATER	Residential	T509219	03-12000	305 N 8TH AVE
WATER	Residential	T509229	14-01008	319 S 6TH AVE
WATER	Residential	T514887	09-06500	704 HONOLULU DR
WATER	Residential	T514889	12-02401	102 N 6TH AVE
WATER	Residential	T514911	01-16500	118 S 2ND AVE
WATER	Residential	T514914	08-10800	408 S 8TH AVE
WATER	Residential	T514952	08-10200	612 S 8TH AVE
WATER	Residential	T514955	11-13865	290 GEORGETOWN LOOP
WATER	Residential	T514959	14-08701	1301 W MAIN ST
WATER	Residential	T514962	10-03720	723 HANCHEY RD
WATER	Residential	T517731	10-03291	1090 MAGNOLIA LN
WATER	Residential	T517733	07-17601	1040 MAKOWSKI RD 15
WATER	Residential	T517767	03-08400	604 N 8TH AVE
WATER	Residential	T517768	12-02600	107 E MAIN ST
WATER	Residential	T517850	09-03303	609 W BAY ST
WATER	Residential	T517852	02-01375	703 E MAIN ST
WATER	Residential	T517853	10-03662	1010 KNOLLWOOD CIR
WATER	Residential	T517857	13-00925	726 E GREEN ST
WATER	Residential	T520615	10-06435	540 ORANGE AVE
WATER	Residential	T520617	06-01526	908 W TN ST
WATER	Residential	T520620	10-03155	1052 MAGNOLIA LN
WATER	Residential	T523511	02-07180	318 N SHELTON AVE
WATER	Residential	T523512	13-05800	915 N 6TH AVE
WATER	Residential	T523513	13-02901	107 E PALMETTO ST

WATER	Residential	T523516	03-11905	309 N 8TH AVE
WATER	Residential	T523517	07-19105	1050 MAKOWSKI RD 1
WATER	Residential	T523520	07-13001	208 S 7TH AVE
WATER	Residential	T523541	03-04200	807 N 7TH AVE
WATER	Residential	T523595	08-12900	609 S 9TH AVE
WATER	Residential	T523599	11-13854	257 GEORGETOWN LOOP
WATER	Residential	T524083	05-02000	510 N 9TH AVE
WATER	Residential	T524086	05-05004	301 N 9TH AVE
WATER	Residential	T529386	13-00925	726 E GREEN ST
WATER	Residential	T529456	07-06723	309 CARLTON ST 1
WATER	Residential	T529457	09-03000	304 S 11TH AVE
WATER	Residential	T529534	02-02150	713 E PALMETTO ST
WATER	Residential	T529536	14-04113	324 S 6TH AVE
WATER	Residential	T529537	10-07057	1014 BRIARWOOD ESTATES
WATER	Residential	T533758	11-23010	1097 DOWNING CIR
WATER	Residential	U304625	03-08150	510 N 8TH AVE
WATER	Residential	U304695	12-00007	210 N 3RD AVE
WATER	Residential	U304696	10-05357	333 CIRCLE DR
WATER	Residential	U304698	10-05310	443 CIRCLE DR
WATER	Residential	U304804	05-08035	119 N 10TH AVE B
WATER	Residential	U304805	11-22850	1132 DOWNING CIR
WATER	Residential	U304827	13-06203	703 N 6TH AVE
WATER	Residential	U304829	11-13830	211 GEORGETOWN LOOP
WATER	Residential	U609425	05-02800	308 W SOUTHERLAND ST
WATER	Residential	U609427	02-11101	417 HEARD BRIDGE RD
WATER	Residential	U609466	10-07039	1015 BRIARWOOD ESTATES
WATER	Residential	U609509	09-05670	1023 BLUE HERRON LN 8
WATER	Residential	U609513	06-10551	910 W LA ST
WATER	Residential	U609515	10-03200	1000 MAGNOLIA LANE
WATER	Residential	U609519	07-18105	1040 MAKOWSKI RD 9
WATER	Residential	U609520	07-15313	125 CARLTON ST 38
WATER	Residential	U616216	01-06343	817 E MAIN ST 3D
WATER	Residential	U616217	01-06309	817 E MAIN ST 3A
WATER	Residential	U616218	01-06357	817 E MAIN ST 3E
WATER	Residential	U616220	01-06369	817 E MAIN ST 3F
WATER	Residential	U616221	01-06331	817 E MAIN ST 3C
WATER	Residential	U616240	01-06372	817 E MAIN ST 4A
WATER	Residential	U616241	01-06380	817 E MAIN ST 4B
WATER	Residential	U616245	01-06390	817 E MAIN ST 4C
WATER	Residential	U618235	05-05550	306 N 10TH AVE
WATER	Residential	U618236	03-11305	302 W GA ST
WATER	Residential	V304041	10-05320	433 CIRCLE DR
WATER	Residential	V304132	01-06279	817 E MAIN ST 2A
WATER	Residential	V304135	10-03540	1247 ASPEN LANE
WATER	Residential	V304623	03-10108	715 N 8TH AVE
WATER	Commercial	V304628	12-06301	404 W ORANGE ST
WATER	Residential	V304749	06-04031	312 N PA AVE

WATER	Residential	V304751	05-01210	313 W GA ST
WATER	Residential	V304807	06-10101	525 IL AVE
WATER	Residential	V515241	01-06701	106 INGLIS WAY
WATER	Residential	V538093	11-10540	1005 N 8TH AVE
WATER	Residential	V538094	11-10890	1012 N FL AVE
WATER	Residential	V538128	10-07100	1030 BRIARWOOD DR #21
WATER	Residential	V540173	02-01260	125 N 1ST AVE
WATER	Residential	X306885	11-10404	884 HEARD BRIDGE RD
WATER	Residential	X306888	02-11901	313 HEARD BRIDGE RD
WATER	Residential	X306891	07-17812	1040 MAKOWSKI RD 13
WATER	Residential	X306892	01-16200	405 E ORANGE ST
WATER	Residential	X306896	09-01201	405 S 11TH AVE
WATER	Residential	X306897	13-05500	1017 HWY 17 N
WATER	Residential	X306899	10-03122	1025 KNOLLWOOD CIR
WATER	Residential	X306901	06-08349	113 N PA AVE
WATER	Residential	X306905	10-06200	126 ORANGE AVE
WATER	Residential	X321206	03-05803	405 N 7TH AVE
WATER	Residential	X324677	09-07400	815 HONOLULU DR
WATER	Residential	X324678	10-03460	1070 KNOLLWOOD CIR
WATER	Residential	X324684	09-09300	518 S FL AVE
WATER	Residential	X534669	06-09320	812 W HARVEY ST
WATER	Residential	X534671	06-09325	310 IL AVE
WATER	Residential	X534676	06-07900	211 N PA AVE
WATER	Residential	X534677	05-04500	319 N 9TH AVE
WATER	Residential	X534747	09-04800	807 S FL AVE
WATER	Residential	X534749	13-09000	200 N FL AVE
WATER	Residential	X534753	09-08525	905 HAWAIIAN DR
WATER	Residential	X534754	10-06437	410 ORANGE AVE
WATER	Residential	Y304476	10-05335	408 CIRCLE DR
WATER	Residential	Y304482	07-16104	1020 MAKOWSKI RD 30
WATER	Residential	Y304918	13-04602	702 N 6TH AVE
WATER	Residential	Y309804	06-10400	409 IL AVE
WATER	Residential	Y309810	05-04699	311 N 9TH AVE
WATER	Residential	Y309811	05-05402	218 N 10TH AVE
WATER	Residential	Y310032	07-18201	1040 MAKOWSKI RD 10
WATER	Residential	Y310035	14-04062	410 S 6TH AVE
WATER	Residential	Y315474	11-21679	1012 S 9TH AVE 2
WATER	Residential	Y317177	06-09660	412 IL AVE
WATER	Residential	Y317180	01-17500	101 S 3RD AVE
WATER	Residential	Y317181	06-10548	908 W LA ST
WATER	Residential	Y317186	10-03570	1050 KNOLLWOOD CIR
WATER	Residential	Y317297	09-00902	514 W HIGH ST
WATER	Residential	Y317299	06-09650	408 IL AVE
WATER	Residential	Y317301	07-17910	1040 MAKOWSKI RD 11
WATER	Residential	Y317302	09-09335	716 OAK FOREST DR
WATER	Residential	Y317305	09-09345	714 OAK FOREST DR
WATER	Residential	Z304773	11-21524	1005 S 9TH AVE 2

WATER	Residential	Z311604	11-23020	1101 DOWNING CIR
WATER	Residential	Z320544	09-05743	1031 HUMMINGBIRD LN 15
WATER	Residential	Z321744	14-03230	1036 S 6TH AVE
WATER	Residential	Z321814	05-09300	802 N FL AVE
WATER	Residential	Z321815	13-03230	228 N 6TH AVE
WATER	Residential	Z321816	06-09680	516 IL AVE
WATER	Residential	Z321817	10-03130	1035 KNOLLWOOD CIR
WATER	Residential	Z321818	05-01308	311 W GA ST
WATER	Residential	Z321820	05-03220	902 N FL AVE
WATER	Residential	Z321821	10-03585	1184 PINE DR
WATER	Residential	Z321823	10-06438	420 ORANGE AVE
ELECTRIC	Residential	32792547	14-09675	3368 JOHN HOLT RD
ELECTRIC	Commercial	32792550	12-03210	117 W PALMETTO ST
ELECTRIC	Residential	32792552	12-14888	457 CARLTON ST
ELECTRIC	Residential	32792564	14-04250	338 STENSTROM RD
ELECTRIC	Residential	32792579	12-14912	1103 S 6TH AVE 103
ELECTRIC	Residential	32792585	13-10100	503 N FL AVE
ELECTRIC	Residential	32792589	13-06310	615 N 6TH AVE
ELECTRIC	Commercial	32792590	14-02620	807 COBB CT
ELECTRIC	Residential	32792593	14-03450	902 S 6TH AVE
ELECTRIC	Residential	32792601	14-04400	306 S 6TH AVE
ELECTRIC	Commercial	32792608	13-02041	408 HEARD BRIDGE RD
ELECTRIC	Residential	32792611	14-02951	909 S 6TH AVE
ELECTRIC	Commercial	32792615	13-02010	408 HEARD BRIDGE RD
ELECTRIC	Residential	40231528	12-14920	1133 S 6TH AVE
ELECTRIC	Residential	40231538	12-14812	155 GRIFFIN RD WWTP
ELECTRIC	Residential	40231540	13-08405	205 N 9TH AVE
ELECTRIC	Commercial	40231550	13-07185	316 N 7TH AVE
ELECTRIC	Residential	44806918	12-05700	318 W MAIN ST
ELECTRIC	Commercial	44806919	13-07800	207 N 7TH AVE
ELECTRIC	Residential	44806923	12-10300	115 S 7TH AVE
ELECTRIC	Residential	47281340	14-03950	530 S 6TH AVE
ELECTRIC	Residential	47821330	13-02901	107 E PALMETTO ST
ELECTRIC	Residential	47821336	12-14911	1103 S 6TH AVE 102
ELECTRIC	Commercial	49382896	14-08260	200 S FL AVE
ELECTRIC	Residential	49382905	14-03330	101 CARLTON ST
ELECTRIC	Residential	49382907	14-03391	108 CARLTON ST
ELECTRIC	Residential	49596987	12-12090	17 E MAIN ST & HWY S
ELECTRIC	Residential	53341127	14-03265	1026 S 6TH AVE
ELECTRIC	Residential	53341132	12-14812	155 GRIFFIN RD WWTP
ELECTRIC	Residential	53341133	12-14812	155 GRIFFIN RD WWTP
ELECTRIC	Residential	53341139	14-00700	301 S 6TH AVE
ELECTRIC	Residential	53341143	13-03540	406 N 6TH AVE
ELECTRIC	Residential	53341148	14-03295	1014 S 6TH AVE
ELECTRIC	Residential	59168086	13-01400	1102 E MAIN ST
ELECTRIC	Residential	59168090	14-09251	1643 STENSTROM RD
ELECTRIC	Residential	59168092	12-14910	1103 S 6TH AVE 101

ELECTRIC	Residential	59168093	13-00100	205 E BAY ST
ELECTRIC	Residential	61060491	14-03300	1010 S 6TH AVE
ELECTRIC	Residential	61060493	14-03196	240 STENSTROM RD
ELECTRIC	Residential	61060494	14-04000	1104 S 6TH AVE
ELECTRIC	Residential	61060495	13-05004	120 KD REVELL RD
ELECTRIC	Residential	61060496	13-08111	310 N 8TH AVE
ELECTRIC	Residential	61060502	14-02607	735 S 5TH AVE
ELECTRIC	Residential	61060503	12-14895	907 S 6TH AVE
ELECTRIC	Residential	4298512	13-03410	304 N 6TH AVE
ELECTRIC	Residential	20890545	14-04250	338 STENSTROM RD
ELECTRIC	Residential	20924868	10-08801	3207 W MAIN ST
ELECTRIC	Residential	32292473	13-07911	212 W PALMETTO ST
ELECTRIC	Residential	32292921	13-09540	612 N FL AVE
ELECTRIC	Residential	32293187	07-16206	1020 MAKOWSKI RD 29
ELECTRIC	Residential	32293206	12-07202	122 S 8TH AVE
ELECTRIC	Residential	32293273	14-03440	906 S 6TH AVE
ELECTRIC	Residential	32792625	12-07710	231 W MAIN ST
ELECTRIC	Residential	34193613	09-00160	220 S 10TH AVE
ELECTRIC	Residential	35255704	10-12330	2964 HIGHTOWER LANE
ELECTRIC	Residential	35711408	10-12330	2964 HIGHTOWER LANE
ELECTRIC	Residential	35712082	11-23110	1098 DOWNING CIR
ELECTRIC	Residential	35712293	05-04320	419 N 9TH AVE
ELECTRIC	Residential	39136822	12-10900	125 W MAIN ST
ELECTRIC	Residential	39136908	12-02910	101 E MAIN ST
ELECTRIC	Residential	39481683	14-08130	1000 S FL AVE
ELECTRIC	Residential	40209886	04-00275	376 RIVERCHASE CIR
ELECTRIC	Residential	41280893	11-02830	285 GRIFFIN RD
ELECTRIC	Residential	41281650	05-02700	712 N 9TH AVE
ELECTRIC	Residential	41281786	05-01600	310 W GA ST
ELECTRIC	Residential	42985165	13-04101	610 N 6TH AVE
ELECTRIC	Residential	42985166	13-03420	306 N 6TH AVE
ELECTRIC	Residential	43088930	02-01300	112 N 1ST AVE
ELECTRIC	Residential	44784513	04-00360	333 RIVERCHASE CIR
ELECTRIC	Residential	47130250	03-04900	613 N 7TH AVE
ELECTRIC	Residential	47784567	11-02735	339 KENYON AVE
ELECTRIC	Residential	48908274	07-20048	635 S 5TH AVE D101
ELECTRIC	Commercial	48908303	07-20104	635 S 5TH AVE
ELECTRIC	Residential	48908304	07-20061	635 S 5TH AVE D206
ELECTRIC	Residential	49019016	02-00675	105 N 3RD AVE H101
ELECTRIC	Residential	49019108	09-06800	714 KOHALA DR
ELECTRIC	Residential	49980222	13-08022	217 W PALMETTO ST
ELECTRIC	Residential	49980268	11-23160	1078 DOWNING CIR
ELECTRIC	Residential	49980355	04-00210	354 RIVERCHASE CIR
ELECTRIC	Residential	50402185	11-02720	228 GRIFFIN RD
ELECTRIC	Residential	55796220	10-10100	3239 GRIFFIN WHIDDEN RD
ELECTRIC	Residential	55796257	09-06400	614 HONOLULU DR
ELECTRIC	Residential	56740525	11-05204	225 RIVERSIDE DR

ELECTRIC	Residential	57471036	30-00210	1030 MAKOWSKI RD 20
ELECTRIC	Residential	59774698	04-00910	700 E TOWNSEND ST 37
ELECTRIC	Residential	61807783	02-01225	509 E MAIN ST COTTAGE
ELECTRIC	Residential	61807794	11-23120	1094 DOWNING CIR
ELECTRIC	Residential	61807812	04-00850	700 E TOWNSEND ST 25
ELECTRIC	Residential	61807832	13-09801	611 N FL AVE
ELECTRIC	Residential	61807843	11-13500	410 N OH AVE
ELECTRIC	Residential	64502600	12-14888	457 CARLTON ST
ELECTRIC	Residential	64502648	03-09700	815 N 8TH AVE
ELECTRIC	Residential	89011794	12-07202	122 S 8TH AVE
ELECTRIC	Residential	89114221	02-00650	105 N 3RD AVE G102
ELECTRIC	Residential	89114313	13-08022	217 W PALMETTO ST
WATER	Residential	8388647	09-01912	607 PEACE DR
WATER	Residential	54518372	13-05062	1340 US HWY 17N
WATER	Residential	212047369	08-10708	506 S 8TH AVE
WATER	Residential	@+T529345	14-04113	324 S 6TH AVE
WATER	Residential	@8221775	14-01302	415 S 6TH AVE
WATER	Residential	F923108	30-00210	1030 MAKOWSKI RD 20
WATER	Residential	R212670	14-01601	601 & 611 S 6TH AVE
WATER	Residential	X315622	11-06300	321 RIVERSIDE DR

SCALE(MULTIPLIER)	READ TYPE	INSTALL DATE	ON/OFF	Master Size Form	Key Accnt+MID
1			ON	5/8x3/4	10-06445-0524332
1		11/8/2004	ON	5/8x3/4	10-06446-04100750
1		11/4/2004	OFF	5/8x3/4	05-02700-4100844
1		6/5/2009	OFF	5/8x3/4	09-05641-6700466
1			OFF	5/8x3/4	03-04900-8254176
1			OFF	5/8x3/4	09-00160-8303450
1	R T		OFF	5/8x3/4	02-01025-8325081
1		8/20/2003	OFF	5/8x3/4	09-03212-8441116
1			OFF	5/8x3/4	02-01300-8511245
1			OFF	5/8x3/4	13-09801-8511246
1		1/15/2003	ON	5/8x3/4	11-21693-8529023
1			OFF	5/8x3/4	02-00650-8624670
1		11/5/1997	OFF	5/8x3/4	11-23160-8742830
1	RADIO	5/5/2022	ON	5/8x3/4	02-02375-9683352
1	RADIO	12/2/2015	OFF	5/8x3/4	11-23110-10036771
1	RADIO	7/18/2016	OFF	5/8x3/4	01-13730-10478142
1	RADIO	6/10/2016	OFF	5/8x3/4	09-05500-10500454
1	RADIO	6/28/2016	OFF	5/8x3/4	08-04802-10500463
1	RADIO	7/21/2016	OFF	5/8x3/4	11-02170-10598711
1	RADIO	10/28/2016	OFF	5/8x3/4	09-06020-10733459
1	RADIO	10/26/2016	OFF	5/8x3/4	13-07000-10733460
1	RADIO	11/1/2017	OFF	5/8x3/4	11-21000-10858623
1	RADIO	5/23/2017	OFF	5/8x3/4	11-23120-10883755
1	RADIO	4/7/2017	OFF	5/8x3/4	09-05910-10892776
1	RADIO	5/31/2018	OFF	5/8x3/4	11-02720-11234048
1	RADIO	6/1/2018	OFF	5/8x3/4	13-03420-11234052
1	RADIO	1/30/2019	OFF	5/8x3/4	11-05204-11411106
1	RADIO	1/23/2019	OFF	5/8x3/4	13-08022-11539834
1			OFF	5/8x3/4	09-06800-18680297
1			OFF	5/8x3/4	05-01600-18680317
1		2/12/2003	OFF	5/8x3/4	09-06110-18680324
1	RADIO	6/24/2020	OFF	5/8x3/4	07-19500-19286104
1	RADIO	8/27/2020	OFF	5/8x3/4	13-04101-19286112
1	RADIO	10/8/2019	OFF	5/8x3/4	09-03400-19913716
1	RADIO	10/23/2019	OFF	5/8x3/4	11-02735-19913727
1	RADIO	12/29/2020	OFF	5/8x3/4	11-10644-20137476
1	RADIO	3/4/2021	OFF	5/8x3/4	05-04320-20138261
1	RADIO	9/12/2023	ON	5/8x3/4	08-04648-25230347
1	RADIO	9/20/2023	OFF	5/8x3/4	03-11301-25242994
1	RADIO	9/23/2022	OFF	5/8x3/4	09-06400-25248642
1	RADIO	9/19/2022	OFF	5/8x3/4	08-04100-25248654
1	RADIO	1/30/2023	OFF	5/8x3/4	11-13500-25248724
1	RADIO	12/29/2022	OFF	5/8x3/4	07-14403-25292408
1	MANUAL	1/30/2023	OFF	5/8x3/4	10-07472-25292413
1	RADIO	1/25/2024	ON	5/8x3/4	07-07900-25353322
1	RADIO	2/1/2024	OFF	5/8x3/4	11-02740-25353363

1	RADIO	8/24/2023	OFF	5/8x3/4	02-00675-25353417
1	MANUAL	2/5/2024	ON	5/8x3/4	06-06804-25353426
1		8/23/1999	OFF	5/8x3/4	09-05710-45667132
1	RADIO	4/24/2007	OFF	5/8x3/4	07-20061-67792377
1	RADIO	4/24/2007	OFF	5/8x3/4	07-20047-67792433
1	RADIO	4/24/2007	OFF	5/8x3/4	07-20048-67792438
1	MANUAL	3/31/2021	OFF	5/8x3/4	12-03205-75523886
1		6/5/2002	OFF	5/8x3/4	14-03005-76634298
1			OFF	5/8x3/4	09-02512-83225086
1		12/28/2007	OFF	5/8x3/4	14-00700-84487133
1		4/3/2013	OFF	5/8x3/4	12-14912-92166492
1	MANUAL	3/31/2021	OFF	5/8x3/4	12-08005-99456845
1		5/3/2001	OFF	5/8x3/4	04-00360-99524344
1		4/6/2001	OFF	5/8x3/4	04-00210-99524365
1		12/13/2001	OFF	5/8x3/4	04-00275-99524374
1		1/8/2014	ON	5/8x3/4	11-11150-201203281
1	RADIO	4/26/2021	ON	5/8x3/4	10-02300-212047362
1	RADIO	11/18/2021	ON	5/8x3/4	10-07476-212047364
1	RADIO	5/24/2021	ON	5/8x3/4	10-03700-212047371
1	RADIO	10/29/2021	ON	5/8x3/4	10-07475-212124504
1	RADIO	11/17/2021	ON	5/8x3/4	10-07208-212124507
1	RADIO	11/30/2021	ON	5/8x3/4	11-11020-212124510
1	RADIO	11/17/2021	ON	5/8x3/4	10-07204-212124512
1	RADIO	1/4/2022	OFF	5/8x3/4	10-03332-212124513
1	RADIO	6/30/2021	ON	5/8x3/4	10-07445-212124517
1	RADIO	12/29/2021	ON	5/8x3/4	11-21225-212124523
1	MANUAL	8/23/2022	ON	5/8x3/4	09-05650-212302468
1	RADIO	6/23/2022	ON	5/8x3/4	10-03353-212302473
1	RADIO	11/30/2021	OFF	5/8x3/4	14-03120-212304257
1	RADIO	4/26/2022	ON	5/8x3/4	10-07650-212304272
1	RADIO	3/31/2022	ON	5/8x3/4	10-07464-212304303
1	RADIO	4/25/2022	ON	5/8x3/4	10-07455-212304307
1	RADIO	9/10/2021	ON	5/8x3/4	08-11301-212304326
1	RADIO	9/23/2021	ON	5/8x3/4	10-07038-212304330
1	RADIO	9/14/2021	ON	5/8x3/4	10-07207-212304332
1	RADIO	9/14/2021	ON	5/8x3/4	10-07440-212304335
1	RADIO	9/8/2021	OFF	5/8x3/4	10-07485-212304336
1	MANUAL	6/16/2022	ON	5/8x3/4	13-07000-686100810
1			OFF	5/8x3/4	10-03375-@0527386
1		6/17/2003	OFF	5/8x3/4	14-03196-@18159449
1		3/26/2004	OFF	5/8x3/4	11-09926-@18159450
1		12/14/2004	ON	5/8x3/4	05-04300-@22572162
1		6/20/2005	OFF	5/8x3/4	06-03201-@48147825
1		12/19/2000	OFF	5/8x3/4	10-07043-@48147831
1	R T	3/26/2007	ON	5/8x3/4	13-06210-@51039649
1		6/18/2004	OFF	5/8x3/4	08-12800-@76333827
1			OFF	5/8x3/4	09-06250-@8303519

1			OFF	5/8x3/4	14-04400-@8528765
1		8/1/2017	OFF	5/8x3/4	10-03312-@BA77746
1			OFF	5/8x3/4	10-03392-@F866335
1			OFF	5/8x3/4	09-06900-@K030382
1			OFF	5/8x3/4	13-07220-@P513791
1			OFF	5/8x3/4	11-07210-@T511521
1			OFF	5/8x3/4	01-14000-@T529416
1			OFF	5/8x3/4	10-03761-@X509579
1			OFF	5/8x3/4	10-03501-A002716
1		10/12/2010	OFF	5/8x3/4	12-10900-B077743
1			OFF	5/8x3/4	03-09700-F816883
1			ON	5/8x3/4	12-00004-FIRE DEPT
1			OFF	5/8x3/4	04-00850-P513493
1			OFF	5/8x3/4	04-00910-P513965
1			OFF	5/8x3/4	14-04095-T517854
1			OFF	5/8x3/4	13-07500-T529458
1	R T		OFF	5/8x3/4	13-05585-X321201
1			OFF	5/8x3/4	12-07202-X324683
1		8/10/1998	OFF	5/8x3/4	07-16206-X534668
1		11/8/2010	OFF	5/8x3/4	09-05680-Y317185
1			OFF	5/8x3/4	05-05101-Z311603
1			ON	1	13-00960-0014166
1		6/24/2008	ON	1	13-04711-00018697
1		8/20/2008	ON	1	10-03720-00018698
1		3/16/2004	ON	1	12-07210-0502735
1			ON	1	14-00520-0516258
1			ON	1	14-08138-0527387
1			ON	1	13-08405-0534661
1	MANUAL	2/24/2020	ON	1	09-09319-2004076
1		7/19/2016	ON	1	12-12080-5688364
1		12/17/2009	ON	1	08-11400-7355500
1		1/24/2002	ON	1	12-14910-7400702
1		11/9/2010	ON	1	01-06812-7706155
1			ON	1	12-03215-8471911
1			ON	1	12-03210-8653560
1			ON	1	13-03540-8717173
1			ON	1	02-01175-8717180
1			ON	1	12-12032-8737723
1	MANUAL	7/18/2016	OFF	1	01-08748-10478162
1	RADIO	6/10/2016	ON	1	14-07575-10500388
1	MANUAL	6/10/2016	OFF	1	09-02500-10500446
1	RADIO	6/5/2017	OFF	1	07-09100-10500531
1	MANUAL	5/24/2023	ON	1	12-00275-14328420
1			ON	1	12-03230-17104788
1		6/12/2012	ON	1	13-03509-17104790
1	MANUAL	7/16/2014	ON	1	10-03520-18159444
1	RADIO	6/27/2019	ON	1	08-07300-19140939

1		7/2/2004	ON	1	14-04095-19453455
1	RADIO	5/13/2020	ON	1	12-00290-19481228
1	RADIO	9/25/2019	ON	1	14-03168-19913745
1	MANUAL	7/22/2020	ON	1	13-08111-20030564
1	RADIO	1/29/2021	ON	1	10-03481-20138271
1	RADIO	9/2/2021	ON	1	08-09110-20813389
1	RADIO	6/14/2021	ON	1	08-04600-20813390
1	RADIO	3/22/2023	ON	1	09-07902-20979131
1	RADIO	1/25/2022	ON	1	13-05021-20979132
1	RADIO	9/10/2021	ON	1	14-03950-20979133
1	RADIO	1/7/2022	ON	1	14-02620-20979136
1	RADIO	11/16/2022	ON	1	13-05071-20979137
1	RADIO	12/2/2021	ON	1	10-03223-20979140
1	RADIO	6/18/2020	ON	1	07-05801-21038257
1	MANUAL	10/18/2021	ON	1	14-03190-21064441
1	MANUAL	5/3/2022	ON	1	01-07500-21064442
1	MANUAL	6/16/2022	ON	1	12-06020-21064443
1	MANUAL	8/2/2021	ON	1	01-06480-21064444
1	MANUAL	4/18/2023	ON	1	13-08900-25242933
1	MANUAL	3/3/2023	ON	1	09-02701-25248675
1	RADIO	7/24/2023	ON	1	01-12100-25248819
1	RADIO	11/9/2023	ON	1	12-05900-25353353
1	MANUAL	1/29/2024	ON	1	14-00500-26395789
1	MANUAL	1/29/2024	ON	1	12-10110-26395815
1	MANUAL	2/28/2023	ON	1	10-03141-26652682
1	MANUAL	5/17/2023	ON	1	10-07044-26665195
1	RADIO	4/13/2023	ON	1	14-02630-26665207
1		10/27/2000	ON	1	13-06225-48084346
1	MANUAL	11/15/2022	ON	1	09-08000-48084350
1		5/30/2001	ON	1	01-06500-48147829
1		8/24/2001	ON	1	02-01375-48147833
1		3/5/2001	ON	1	13-05007-48147834
1	R T	2/1/2006	ON	1	09-09317-49253132
1		4/26/2006	OFF	1	12-14884-49604935
1		5/25/2006	ON	1	12-06910-49790033
1		9/19/2006	ON	1	12-01401-49877926
1		10/29/2019	ON	1	13-05171-49877928
1		4/27/2007	OFF	1	10-03130-49930711
1		1/22/2008	ON	1	02-05900-51145567
1		9/14/2007	ON	1	10-03640-51248152
1	MANUAL	7/21/2015	ON	1	09-01101-51248153
1		2/14/2008	ON	1	14-00700-51432556
1		6/1/2009	OFF	1	14-09251-51815172
1		8/4/2010	ON	1	14-07280-52017903
1		7/26/2010	OFF	1	01-06485-52017904
1		9/21/2010	ON	1	10-03755-52017905
1	MANUAL	10/1/2014	ON	1	14-01302-52192800

1	MANUAL	3/25/2014	ON	1	13-03202-52216004
1		4/8/2011	ON	1	14-00700-52216005
1		9/27/2011	ON	1	10-07036-52312461
1		3/26/2012	ON	1	06-07150-52337569
1		1/9/2012	OFF	1	10-03411-52337597
1		4/10/2012	ON	1	14-08400-52337600
1		11/21/2013	ON	1	11-07241-52492386
1		5/29/2013	ON	1	13-08400-52492389
1	MANUAL	3/28/2014	ON	1	06-00120-52991903
1		12/20/2013	ON	1	13-05009-52991904
1	MANUAL	8/5/2014	ON	1	01-14500-53158437
1	MANUAL	8/21/2014	ON	1	10-03771-53158438
1	MANUAL	10/20/2014	ON	1	10-03353-53192799
1	MANUAL	9/29/2014	ON	1	14-01150-53220140
1		2/26/2015	ON	1	07-06695-53232712
1	MANUAL	4/2/2015	ON	1	12-14888-53232713
1		4/23/2015	ON	1	12-02901-53336996
1	MANUAL	9/10/2015	ON	1	01-06600-53336997
1	MANUAL	7/21/2015	ON	1	09-02615-53336998
1	MANUAL	12/5/2016	ON	1	10-03291-53475690
1		5/23/2016	ON	1	10-07206-53532737
1	MANUAL	7/15/2016	ON	1	13-05004-53532756
1	MANUAL	7/7/2016	ON	1	13-05004-53688365
1	MANUAL	12/8/2016	ON	1	14-04000-53688366
1	MANUAL	9/8/2016	ON	1	03-12201-53738626
1	MANUAL	9/27/2016	ON	1	13-05052-53738644
1	MANUAL	12/14/2016	ON	1	12-03207-53808824
1	MANUAL	2/27/2017	OFF	1	12-14889-53861319
1		5/23/2017	ON	1	13-05025-53899741
1		2/1/2018	ON	1	14-03770-54081290
1	MANUAL	5/23/2018	OFF	1	12-07211-54190932
1	MANUAL	12/13/2018	ON	1	05-12304-54230394
1	MANUAL	11/1/2019	OFF	1	14-03771-54230402
1	MANUAL	1/29/2019	ON	1	10-07555-54402919
1	MANUAL	5/30/2019	ON	1	13-10670-54518373
1	MANUAL	6/27/2019	ON	1	09-07800-54518374
1	MANUAL	10/4/2019	ON	1	13-10615-54608804
1	MANUAL	10/15/2019	ON	1	10-07049-54628066
1	MANUAL	1/29/2021	ON	1	14-08440-54740922
1	MANUAL	10/7/2021	ON	1	08-10708-54740923
1	MANUAL	4/16/2021	OFF	1	02-07250-54740924
1	MANUAL	12/17/2019	ON	1	13-05006-54740925
1		3/27/2007	ON	1	13-10300-60488609
1	RADIO	4/5/2022	ON	1	10-03230-66258112
1	RADIO	6/21/2019	ON	1	14-03200-68780568
1	RADIO	6/18/2019	ON	1	13-05025-68786318
1	RADIO	3/31/2021	ON	1	12-03205-68786319

1	RADIO	3/20/2023	ON	1	09-00105-68985754
1	RADIO	10/26/2022	ON	1	12-02550-68985755
1	RADIO	8/31/2022	ON	1	06-01620-68985756
1	RADIO	9/2/2022	ON	1	13-06100-68985757
1	RADIO	3/28/2023	ON	1	09-09350-68985759
1	MANUAL	12/9/2019	ON	1	13-06005-98026347
1			ON	1	04-00180-99492959
1	RADIO	7/18/2022	ON	1	14-03165-212302476
1	RADIO	1/24/2022	ON	1	10-00100-212304239
1			OFF	1	09-08591-@0502732
1			ON	1	11-13860-@0502733
1			OFF	1	06-13500-@0502798
1			OFF	1	11-13880-@0518207
1			ON	1	03-14000-@05182249
1			ON	1	08-13235-@0527382
1			ON	1	12-07210-@0531108
1			ON	1	11-13845-@0534662
1			OFF	1	11-13895-@0534663
0.5		7/31/2017	OFF	1	01-08726-@10478162
1		3/4/2005	ON	1	09-09317-@17104789
1		3/30/2005	OFF	1	13-03502-@17104790
1		9/1/2005	ON	1	09-05655-@17104791
1		4/29/2005	ON	1	10-03300-@18159438
1		6/18/2004	OFF	1	12-01401-@18159445
1		7/24/2000	OFF	1	10-07080-@48084347
1		1/14/2002	OFF	1	01-17500-@48084349
1		3/13/2000	OFF	1	10-07055-@48084351
1		6/19/2000	ON	1	05-05350-@48084353
1		9/12/2000	ON	1	09-09225-@48084354
1		4/25/2000	OFF	1	13-09801-@48084356
1		1/23/2001	ON	1	12-14885-@48147830
1		6/18/2004	OFF	1	14-01008-@4814827
1		5/1/2006	OFF	1	10-07076-@49754604
1		6/2/2008	ON	1	01-06465-@49828190
1		5/31/2006	OFF	1	11-09955-@49828207
1		5/31/2006	OFF	1	10-03662-@49828208
1		6/8/2006	OFF	1	02-07295-@49852213
1		7/31/2013	ON	1	14-04210-@49877929
1		8/3/2009	ON	1	01-14400-@51815174
1		7/31/2017	OFF	1	06-06804-@52312460
1		12/21/2011	ON	1	12-12006-@52337598
1		11/30/2011	ON	1	13-05021-@52337599
1			OFF	1	11-09865-@5512807
1			ON	1	09-09331-@5512811
1		7/31/2017	OFF	1	06-07800-@7706149
1			OFF	1	08-12520-@8630704
1			ON	1	14-03420-@8832384

1		ON	1	11-13885-@8837779
1		ON	1	11-13850-@8837782
1		ON	1	09-09312-@8843855
1		ON	1	06-03700-@922424
1		ON	1	10-03181-@B067309
1		OFF	1	10-03540-@B070045
1		OFF	1	09-07902-@B070048
1		ON	1	14-01410-@C004509
1		OFF	1	02-07180-@F870700
1		ON	1	10-03262-@J036644
1		ON	1	11-07600-@J036645
1		OFF	1	08-12507-@J036649
		OFF	1	12-00275-@P506146
1		ON	1	11-13849-@P510526
1		OFF	1	11-13810-@P510527
1		OFF	1	11-13875-@R201747
1		OFF	1	11-13870-@R207855
1		ON	1	10-03515-@R207856
1	3/27/1997	OFF	1	02-01050-@R207857
1		OFF	1	14-03950-@R207859
1		ON	1	11-22800-@S516933
1		OFF	1	09-09340-@S516934
1		ON	1	06-01771-@S516935
1	7/21/2000	ON	1	11-13853-@S516937
1		OFF	1	06-01275-@S528759
1		ON	1	11-05300-@T529388
1	8/28/1998	ON	1	10-03290-@T529417
1		OFF	1	09-03100-@V515244
1	2/1/2000	OFF	1	11-22910-@X315620
1		OFF	1	11-06001-@X315624
1	9/18/1998	OFF	1	10-07100-@Y304921
1	6/8/1999	OFF	1	10-03592-@Y315878
1	1/20/2000	ON	1	02-01100-@Y326536
1		OFF	1	11-09300-@Y326537
1	5/4/2001	OFF	1	11-09845-@Z304655
1	1/14/2000	OFF	1	11-11155-@Z312016
1	8/5/1998	OFF	1	14-08530-@Z312020
1	2/22/1999	ON	1	10-03450-@Z312021
1		ON	1	14-03330-A19483
1		ON	1	01-06910-B067305
1		OFF	1	14-08130-F870885
1		ON	1	14-03010-K030391
1		ON	1	14-06990-P510523
1		ON	1	10-00301-P510524
1		ON	1	10-03422-P510528
1		ON	1	14-08705-S512810
1		ON	1	13-02010-S516938

1			ON	1	10-03450-T511523
1			ON	1	14-02977-T529413
1			ON	1	14-04501-T529414
1		8/7/2000	ON	1	12-00006-T529415
1			ON	1	01-15400-V515242
1		4/29/1998	ON	1	09-09313-X315619
1			ON	1	05-00010-X315621
1			ON	1	03-00200-X509580
1		4/22/1998	ON	1	10-03161-Y304917
1		1/13/2000	ON	1	14-03470-Y326539
1	R T	4/3/1998	ON	1	10-03200-Z304653
1		12/10/1998	ON	1	10-03501-Z312018
1		5/29/2013	ON	1	05-05101-Z312019
1		1/28/2009	ON	1.5	13-09617-000017150
1		1/29/2009	ON	1.5	13-01615-00017183
1	MANUAL	9/3/2014	ON	1.5	01-18520-295460
1		9/20/2012	ON	1.5	12-05700-6061721
1	RADIO	3/15/2017	ON	1.5	12-06120-8925250
1		4/1/2003	ON	1.5	04-02290-17146771
1		7/9/2003	ON	1.5	12-14830-18476760
1	RADIO	10/31/2022	ON	1.5	14-03550-20715845
1	RADIO	9/21/2023	ON	1.5	12-06510-56710732
1		3/2/2005	ON	1.5	14-03450-60335733
1		4/27/2005	ON	1.5	14-02951-60335752
1	RADIO	1/2/2019	ON	1.5	14-03090-68780562
1	RADIO	5/30/2019	ON	1.5	13-10670-68780563
1	RADIO	6/15/2020	ON	1.5	13-06100-68780564
1	RADIO	12/20/2018	ON	1.5	14-08530-68780565
1	RADIO	9/26/2019	ON	1.5	14-01302-68780566
1	RADIO	8/23/2016	ON	1.5	12-14895-685865408
1		5/6/1999	OFF	1.5	02-01300-@Z534466
1			ON	1.5	13-07800-A007731
1	MANUAL	2/17/2023	ON	1.5	13-06802-C025184
1			ON	1.5	06-08800-C094317
1			ON	1.5	11-11200-E556391
1			ON	1.5	12-11903-E556392
1			ON	1.5	01-06600-G042222
1			ON	1.5	12-14920-J082176
1			ON	1.5	14-03020-J082183
1			ON	1.5	13-00636-L059970
1		3/23/1999	OFF	1.5	12-14817-U459666
1			ON	2	14-03300-0029669
1			ON	2	14-08550-0051395
1		1/11/2012	ON	2	14-09301-6071942
1		10/30/2009	ON	2	13-05176-6906459
1	4	10/2/2013	OFF	2	14-04250-6910120
1			ON	2	12-00275-7332454

1		4/8/2013	ON	2	12-05475-8826653
1		12/5/2012	ON	2	13-05055-8826843
1	MANUAL	11/20/2023	ON	2	12-14814-12869478
1		6/4/2001	ON	2	13-05009-16896586
1	RADIO	1/20/2021	ON	2	14-08420-20813394
1	RADIO	1/14/2021	ON	2	14-03320-20813395
1	RADIO	12/14/2022	ON	2	14-03550-20813396
1	RADIO	4/13/2021	ON	2	12-14850-20813398
1	RADIO	1/21/2022	ON	2	13-02150-20979139
1	RADIO	3/8/2022	ON	2	12-14890-20983341
1		9/26/2023	ON	2	13-10601-25250100
1	RADIO	1/23/2023	ON	2	13-02000-26608148
1	RADIO	5/4/2023	ON	2	14-02610-26656390
1		8/25/2017	ON	2	12-00013-53899740
1		3/5/1999	ON	2	14-01601-60163853
1		1/22/1999	ON	2	12-08005-60163855
1		3/5/2001	ON	2	13-05008-60237430
1		12/2/2005	ON	2	10-07076-60439540
1		8/24/2006	ON	2	14-08111-60440409
1		7/19/2006	OFF	2	13-10300-60442365
1		9/22/2006	ON	2	12-06420-60463424
1		4/25/2007	ON	2	14-09260-60500704
1		3/10/2009	OFF	2	13-05077-60586354
1		10/28/2011	ON	2	14-08135-60719140
1		1/10/2012	ON	2	14-06955-60719143
1	MANUAL	2/15/2022	ON	2	13-10145-60750708
1		2/4/2013	ON	2	13-05190-60799054
1	MANUAL	6/5/2018	ON	2	12-12090-60896403
1	MANUAL	8/1/2016	ON	2	13-09617-60959552
1	MANUAL	8/2/2019	ON	2	13-01623-60962910
1	MANUAL	1/18/2019	ON	2	14-09260-60962911
1	MANUAL	7/24/2020	ON	2	13-00930-61098786
1	MANUAL	1/2/2020	ON	2	14-09291-61098787
1	MANUAL	3/23/2020	ON	2	14-03295-61113925
1	MANUAL	11/23/2020	ON	2	13-10600-61137852
1	RADIO	6/19/2017	ON	2	14-02607-68667059
1	RADIO	6/19/2017	ON	2	14-02607-68667061
1	RADIO	6/19/2017	ON	2	14-02607-68667062
1	RADIO	1/7/2022	ON	2	14-02620-68733745
1	RADIO	5/17/2017	ON	2	14-09300-68759822
1	RADIO	12/14/2017	ON	2	12-14815-68770680
1	RADIO	3/2/2020	ON	2	12-14888-68780548
1	RADIO	8/11/2022	ON	2	12-14930-68780549
1	RADIO	3/4/2020	ON	2	13-03700-68780550
1	RADIO	9/25/2018	ON	2	14-03265-68780551
1	RADIO	3/2/2020	ON	2	14-08260-68780552
1	RADIO	1/13/2021	ON	2	14-09295-68780567

1	RADIO	2/26/2020	ON	2	13-07512-68786312
1		3/5/2001	ON	2	13-05008-99586973
1	MANUAL	6/5/2015	OFF	2	10-07460-600882272
1		4/9/2018	OFF	2	12-14880-608360897
1			ON	2	14-08135-@0005047
1		2/23/2006	ON	2	13-08130-@60439539
1		5/16/2000	ON	2	14-09308-@99586974
1		11/9/1998	OFF	2	14-03280-@Z524196
1		4/9/2018	ON	2	12-14880-@Z524198
1			ON	2	12-14840-E593424
1	MANUAL	11/17/2003	ON	2	13-00930-F827381
1			ON	2	14-01210-F903610
1	RADIO	12/29/2016	ON	2	14-03170-M160321X1
1			ON	2	12-14812-N126382
1			ON	2	14-08519-R122335
1			ON	2	14-09308-U422139
1			ON	2	13-05010-U428464
1			ON	2	14-09100-U523009
1		4/25/1997	ON	2	12-14817-X511903
1		4/25/1997	ON	2	12-14817-X511904
1		5/1/1997	ON	2	13-10140-X527346
1	RADIO	10/14/2022	ON	3	12-14870-68635488
1		5/16/2011	ON	3	14-08272-70233050
1	RADIO	7/27/2018	ON	3	13-09605-68786311B
1			OFF	3	12-14880-S3955856
1	RADIO	4/12/2022	ON	4	13-09411-26651601
1		4/15/2010	OFF	4	12-14880-70225578
1		3/17/2011	ON	4	14-09290-70237328
1			ON	4	14-08130-@91125233
1			ON	4	14-08135-@M015800
1	RADIO	6/12/2020	ON	12s	12-02550-32792636
1	RADIO	11/8/2018	ON	12s	12-11300-38768007
1	RADIO	1/27/2015	ON	12s	14-03975-39136722
1	RADIO	4/11/2014	ON	12s	14-02300-39136723
1	RADIO	2/10/2020	ON	12s	13-03230-39136726
1	RADIO	9/14/2023	ON	12s	12-07700-39136727
1	RADIO	12/14/2023	ON	12s	12-02800-39136731
1	RADIO	6/9/2017	ON	12s	12-10176-39136739
1	RADIO	1/26/2015	ON	12s	12-04001-39136741
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1	RADIO	1/20/2015	ON	12s	12-10115-39136777
1	RADIO	1/21/2015	ON	12s	14-08102-39136782
1	RADIO	1/20/2015	ON	12s	14-03280-39136786
1	RADIO	11/30/1998	ON	12s	12-10181-39136790
1	RADIO	1/20/2015	ON	12s	12-10153-39136797
1	RADIO	1/20/2015	ON	12s	12-10120-39136798
1	RADIO	1/26/2015	ON	12s	12-03232-39136819

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1	RADIO	1/27/2015	ON	12s	14-03975-39136849
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1	RADIO	3/10/2022	ON	12s	12-11600-39136906
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1	RADIO	4/9/2015	ON	16s	14-09590-32792620
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1	RADIO	12/22/2015	ON	16s	13-03506-32792627
1	RADIO	4/9/2021	ON	16s	14-03550-32792628
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1	RADIO	1/26/2015	ON	16s	12-03220-34226616
1	RADIO	11/22/2021	OFF	16s	14-03120-34226617
1	RADIO	1/20/2015	ON	16s	14-03110-34226618
1	RADIO	1/21/2015	ON	16s	14-04250-34226619
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1	RADIO	1/20/2015	ON	16s	14-03130-34226726
1	RADIO	2/4/2015	ON	16s	13-02101-34226737
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1	RADIO	4/29/2015	ON	16s	14-09260-34226739
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1	RADIO	6/1/2015	ON	16s	13-06203-34226745
1	RADIO	6/10/2015	ON	16s	14-08550-34226746
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1	RADIO	6/20/2017	ON	16s	14-02612-43088923
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1	RADIO	2/18/2022	ON	2S	10-11032-41281334
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1	RADIO	6/18/2019	ON	2S	09-05201-89114269
1	RADIO	9/6/2023	ON	2S	06-01275-89114271
1	RADIO	2/28/2013	ON	2S	06-02200-89114272
1	RADIO	5/17/2022	ON	2S	04-02040-89114274
1	RADIO	10/12/2020	ON	2S	05-06397-89114276
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1	RADIO	3/18/2013	ON	2S	05-08180-89114288
1	RADIO	2/3/2020	ON	2S	10-06410-89114289
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1	RADIO	11/7/2022	ON	2S	10-07441-89114293
1	RADIO	6/22/2017	ON	2S	11-02460-89114295
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1	RADIO	12/13/2023	ON	2S	08-00105-89114298
1	RADIO	9/19/2013	ON	2S	01-08606-89114304
1	RADIO	9/19/2013	ON	2S	01-08610-89114306
1	RADIO	9/19/2013	ON	2S	01-07200-89114307
1	RADIO	3/5/2013	ON	2S	06-01750-89114308
1	RADIO	1/24/2020	ON	2S	09-09000-89114310
1	RADIO	8/8/2023	ON	2S	10-07400-89114311
1	RADIO	2/27/2013	ON	2S	06-00150-89114314
1	RADIO	9/15/2014	ON	2S	08-01500-89114317
1	RADIO	9/6/2013	ON	2S	09-01950-89114318
1	RADIO	9/13/2013	ON	2S	10-06470-89114321
1	RADIO	9/19/2013	ON	2S	01-11000-89114322
1	RADIO	2/27/2013	ON	2S	06-00741-89114328
1	RADIO	9/19/2013	ON	2S	01-08511-89114329
1	RADIO	9/12/2013	ON	2S	09-01201-89114331
1	RADIO	12/27/2023	ON	2S	13-05800-89774664
1	RADIO	9/19/2013	ON	2S	01-09203-90321082
1	RADIO	1/21/2016	ON	2S	12-08005-90321083
1	RADIO	2/9/2018	ON	2S	12-20414-90321086
1	RADIO	6/8/2022	OFF	2S	13-01613-90321089
1	RADIO	9/20/2023	ON	2S	10-12370-90321090
1	RADIO	1/10/2014	ON	2S	06-09660-90321093

1	RADIO	9/11/2023	ON	2S	04-02215-90321094
1	RADIO	12/2/2013	ON	2S	09-01905-90321095
1	RADIO	5/24/2022	ON	2S	06-13200-90321096
1	RADIO	9/19/2013	ON	2S	01-06343-90321097
1	RADIO	9/19/2013	ON	2S	01-11103-90321100
1	RADIO	7/7/2023	ON	2S	04-00775-90321115
1	RADIO	10/25/2012	ON	2S	02-06800-90321116
1	RADIO	5/10/2021	ON	2S	08-05103-90321118
1	RADIO	5/11/2021	ON	2S	08-09110-90321121
1	RADIO	1/15/2014	ON	2S	10-05310-90321122
1	RADIO	5/10/2019	ON	2S	03-08200-90321123
1	RADIO	10/20/2014	ON	2S	11-22800-90321125
1	RADIO	12/5/2017	ON	2S	09-09340-90321807
1	RADIO	9/19/2013	ON	2S	03-13833-93141785
1	RADIO	2/3/2021	ON	2S	10-03370-93141810
1	RADIO	9/19/2013	ON	2S	03-09200-93211423
1		5/1/2009	ON	2S	13-10600-96474936
40	RADIO	3/26/2019	ON	2S	10-03049-153155901
40	RADIO	3/26/2019	ON	2S	01-14900-153155902
1	RADIO	1/17/2011	ON	2S	04-01010-209024777
1	RADIO	5/11/2011	ON	2S	06-10350-284244990
1	RADIO	12/8/2010	ON	2S	05-08155-489082288
1	RADIO	1/15/2014	ON	2S	10-07020-496023721
1	RADIO	10/11/2013	ON	2S	02-02001-496603828
1	RADIO	10/5/2015	ON	2S	10-03150-891111427
1	MANUAL	3/31/2022	ON	2S	02-02800-EC 117315424
1	MANUAL	3/31/2022	ON	2S	02-02800-EC 11731542R
1	MANUAL	5/2/2018	ON	2S	10-05358-EC 117389100
1	MANUAL	4/24/2018	ON	2S	10-05358-EC 11738910R
1	MANUAL	1/4/2023	ON	2S	13-01850-EC 120023614
1	MANUAL	3/21/2023	ON	2S	06-01517-EC 120023633
1	MANUAL	3/22/2022	ON	2S	06-01230-EC 120023634
1	MANUAL	3/21/2023	ON	2S	06-01230-EC 12002363R
1	MANUAL	12/9/2022	ON	2S	06-03300-EC 120023778
1	MANUAL	12/9/2022	ON	2S	06-03300-EC 12002377R
1	MANUAL	10/19/2023	ON	2S	10-07650-EC 120897248
1	MANUAL	10/19/2023	ON	2S	10-07650-EC 12089724R
1	MANUAL	11/13/2018	ON	2S	05-05210-EC 148181717
1		11/13/2018	ON	2S	05-05210-EC 14818171R
1	MANUAL	4/30/2021	ON	2S	01-06495-EC 150940538
1	MANUAL	4/1/2020	ON	2S	01-06495-EC 15094053R
1	MANUAL	4/7/2021	ON	2S	11-13855-EC 150940540
1	MANUAL	4/7/2021	ON	2S	11-13855-EC 15094054R
1	MANUAL	3/2/2022	ON	2S	09-09225-EC 156856373
1	MANUAL	9/28/2021	ON	2S	08-11301-EC 156856375
1	MANUAL	8/16/2021	ON	2S	10-03705-EC 156856376
1	MANUAL	3/2/2022	ON	2S	08-11301-EC 15685637R

1	MANUAL	5/23/2022	ON	2S	11-07804-EC 170099535
1	MANUAL	6/27/2022	ON	2S	11-04403-EC 170099536
1	MANUAL	10/12/2022	ON	2S	03-09100-EC 170099537
1	MANUAL	6/2/2022	ON	2S	01-07401-EC 170099538
1	MANUAL	10/12/2022	ON	2S	11-04403-EC 17009953R
1	MANUAL	4/28/2023	ON	2S	09-09201-EC 170099632
1	MANUAL	5/1/2023	ON	2S	10-03080-EC 170099633
1	MANUAL	6/9/2023	ON	2S	02-01525-EC 170099634
1	MANUAL	6/9/2023	ON	2S	02-01525-EC 17009963R
120	RADIO	8/27/2014	ON	3s	12-14850-36346550
40	RADIO	4/30/2015	ON	46s	14-09825-33843250
40	RADIO	7/27/2015	ON	46s	13-06909-33843253
180	RADIO	1/23/2015	ON	46s	14-08260-33843254
80	RADIO	1/28/2015	ON	46s	13-10600-33843272
40	RADIO	11/17/2016	ON	46s	14-08272-33843273
40	RADIO	4/28/2015	ON	46s	14-04600-33843274
40	RADIO	4/28/2015	ON	46s	12-06420-33843277
80	RADIO	5/7/2015	ON	46s	14-09100-33843284
80	RADIO	4/15/2020	ON	46s	12-14890-33843286
40	RADIO	4/28/2015	ON	46s	14-08275-33843287
1200	RADIO	8/27/2014	ON	46s	12-14930-36346535
40	RADIO	1/20/2015	ON	46s	12-06510-36346537
180	RADIO	8/27/2014	ON	46s	14-03020-36346539
20	RADIO	1/23/2015	ON	46s	12-02401-36346543
80	RADIO	1/26/2015	ON	46s	14-08219-36346545
80	RADIO	1/23/2015	ON	46s	12-14830-36346546
80	RADIO	8/27/2014	ON	46s	12-14905-36346551
80	RADIO	4/15/2020	ON	46s	13-00636-36346553
80	RADIO	8/27/2014	ON	46s	12-14840-36346555
40	RADIO	1/26/2015	ON	46s	13-00910-36346557
120	RADIO	1/8/2015	ON	46s	12-14817-36346563
80	RADIO	1/8/2015	ON	46s	13-05006-36346566
1200	RADIO	7/16/2015	OFF	46s	12-14880-36346567
80	RADIO	1/8/2015	ON	46s	12-14820-36346570
80	RADIO	2/2/2021	ON	46s	14-01302-36346574
80	RADIO	8/27/2014	ON	46s	12-14840-36346575
40	RADIO	1/26/2015	ON	46s	12-03230-36346577
40	RADIO	1/26/2015	ON	46s	12-03225-53539729
160	RADIO	1/26/2015	ON	46s	14-03170-53539734
40	RADIO	4/21/2015	ON	46s	12-06301-53539735
40	RADIO	1/8/2015	ON	46s	14-03250-53541769
80	RADIO	1/19/2023	ON	46s	13-07220-53541773
80	RADIO	2/20/2023	ON	46s	14-02610-53541774
160	RADIO	5/20/2014	ON	46s	12-14815-53541776
40	RADIO	7/14/2016	ON	46s	12-03215-53541779
80	RADIO	5/20/2015	ON	46s	14-08530-53541780
40	RADIO	1/23/2015	ON	46s	13-03202-59168075

80	RADIO	8/27/2014	ON	46s	14-02700-59168077
40	RADIO	12/16/2022	ON	46s	13-01615-59168079
80	RADIO	1/23/2015	ON	46s	12-02600-59168082
80	RADIO	1/20/2015	ON	46s	12-05700-59168083
40	RADIO	10/4/2011	ON	46s	12-02301-59168084
80	RADIO	7/15/2020	ON	46s	12-00275-61978306
40	RADIO	1/8/2015	ON	46s	14-03190-61978309
1			ON	46s	12-14850-86011916
1	RADIO	11/16/2016	ON	46s	12-02401-87075003
80	RADIO	4/27/2021	ON	46s	14-08272-88216427
300	RADIO	4/28/2015	ON	46s	12-14870-88216432
40	RADIO	1/8/2015	ON	46s	13-02700-88216435
1	RADIO	2/12/2014	ON	4s	14-09328-41281674
80	RADIO	2/27/2019	ON	4s	12-14885-153155897
80	RADIO	2/27/2019	ON	4s	14-09331-153155898
60	RADIO	2/27/2019	ON	4s	13-06225-153155899
80	RADIO	3/15/2019	ON	4s	14-06990-153155904
40	RADIO	2/27/2019	ON	4s	14-08262-153155905
40	RADIO	2/27/2019	ON	4s	13-07800-153155907
40	MANUAL	11/30/2023	ON	4s	14-07022-153487711
60	RADIO	12/11/2023	ON	4s	14-09328-153487712
1			ON	5/8x3/4	12-06720-0
1	1		ON	5/8x3/4	13-04203-006292
1	MANUAL		ON	5/8x3/4	04-00125-19036
0.083		12/8/2010	ON	5/8x3/4	05-08100-61655
1		12/18/2013	ON	5/8x3/4	12-14887-00258415
1		11/4/2013	ON	5/8x3/4	02-02850-00258417
1		10/22/2013	ON	5/8x3/4	11-10615-00258418
1		11/7/2013	ON	5/8x3/4	04-02080-00258424
1		11/1/2013	ON	5/8x3/4	05-03400-00258427
1		11/19/2013	ON	5/8x3/4	10-03441-00258430
1	MANUAL	3/21/2014	ON	5/8x3/4	14-02700-00287716
1	MANUAL	3/27/2014	ON	5/8x3/4	09-07100-00287718
1	R T	5/19/2014	ON	5/8x3/4	05-04300-00287722
1	MANUAL	3/18/2014	ON	5/8x3/4	06-09600-00287724
1			ON	5/8x3/4	01-06485-0502500
1			ON	5/8x3/4	11-10560-0502504
1			ON	5/8x3/4	02-07260-0502517
1			ON	5/8x3/4	01-16175-0502570
1			ON	5/8x3/4	07-10803-0505577
0.5			ON	5/8x3/4	03-05304-505589
1			ON	5/8x3/4	01-16150-0505592
1			ON	5/8x3/4	12-05900-0505605
1			ON	5/8x3/4	11-13845-0524342
1			ON	5/8x3/4	14-01200-0524351
1			ON	5/8x3/4	09-09250-0524353
1			ON	5/8x3/4	11-13880-0524354

1			ON	5/8x3/4	10-03665-0527724
1			ON	5/8x3/4	11-13849-0527726
1			ON	5/8x3/4	06-01277-0531078
1			ON	5/8x3/4	06-09300-0531081
1			ON	5/8x3/4	10-03375-0531106
1			ON	5/8x3/4	12-10181-0531107
1			ON	5/8x3/4	08-13320-0531109
1	R T		ON	5/8x3/4	11-23000-0531112
1		6/13/2012	ON	5/8x3/4	12-05550-0531113
1			ON	5/8x3/4	08-13235-0531115
1		3/18/2008	ON	5/8x3/4	06-08103-800900
1		2/21/2013	ON	5/8x3/4	14-03070-0801552
1			ON	5/8x3/4	14-03050-845685
1			ON	5/8x3/4	05-07805-847910
1			ON	5/8x3/4	11-22910-880664
1			ON	5/8x3/4	06-14100-923076
1	RADIO	6/22/2016	ON	5/8x3/4	11-09310-1065452
1	RADIO	11/13/2017	ON	5/8x3/4	11-06501-1067545
1	RADIO	7/11/2019	ON	5/8x3/4	01-14701-1910941
1	RADIO	1/15/2021	ON	5/8x3/4	11-09980-2013874
1	RADIO	8/16/2023	ON	5/8x3/4	14-02980-2076244
1	RADIO	10/19/2020	ON	5/8x3/4	10-06800-2137494
1	RADIO	6/5/2023	ON	5/8x3/4	02-01275-2524867
1	RADIO	8/25/2022	ON	5/8x3/4	11-10642-2528719
1	3/		ON	5/8x3/4	14-06980-2572135
1		1/27/2005	ON	5/8x3/4	13-03506-04100747
1		9/20/2004	ON	5/8x3/4	09-02900-4100777
1		11/29/2004	ON	5/8x3/4	10-03300-04100780
1		8/24/2004	ON	5/8x3/4	02-11805-04100781
1		10/23/2008	ON	5/8x3/4	13-08200-04100782
1		8/11/2004	ON	5/8x3/4	02-06030-04100808
1		8/20/2004	ON	5/8x3/4	09-09318-04100815
1		12/20/2004	ON	5/8x3/4	01-17600-4100843
1		1/27/2005	ON	5/8x3/4	13-03508-04100848
1			ON	5/8x3/4	05-08700-4304700
1			ON	5/8x3/4	10-03411-4566714
1	R T		ON	5/8x3/4	13-05950-5509918
1		11/13/2008	ON	5/8x3/4	02-04500-5700457
1		8/11/2009	ON	5/8x3/4	13-05175-5853294
1		8/11/2009	ON	5/8x3/4	02-02750-5853295
1		8/5/2008	ON	5/8x3/4	13-05077-5853406
1		6/23/2008	ON	5/8x3/4	12-06010-5853416
1		6/10/2008	ON	5/8x3/4	11-13862-5853418
1		10/27/2008	ON	5/8x3/4	04-00145-5853423
1	RADIO	5/17/2022	ON	5/8x3/4	08-13240-6628108
1		3/26/2009	ON	5/8x3/4	06-08326-6700360
1		5/20/2009	ON	5/8x3/4	07-10205-6700361

1		1/16/2009	ON	5/8x3/4	14-03380-6700366
1		12/29/2008	ON	5/8x3/4	05-10450-6700369
1		2/19/2009	ON	5/8x3/4	11-13855-6700375
1		4/3/2009	ON	5/8x3/4	03-05998-6700377
1		1/29/2009	ON	5/8x3/4	06-08900-6700381
1		11/5/2008	ON	5/8x3/4	04-00105-6700460
1		6/5/2009	ON	5/8x3/4	04-02155-6700463
1		10/21/2009	ON	5/8x3/4	10-07090-6760420
1		10/20/2009	ON	5/8x3/4	07-06728-6760422
1		10/14/2009	ON	5/8x3/4	10-03241-6760426
1		10/8/2009	ON	5/8x3/4	05-03210-6760428
1		5/11/2010	ON	5/8x3/4	04-00085-6760429
1		5/8/2009	ON	5/8x3/4	04-01025-6760431
1		8/21/2009	ON	5/8x3/4	05-10910-6760433
1		5/5/2009	ON	5/8x3/4	14-08262-6760434
1		9/24/2010	ON	5/8x3/4	04-02200-6873664
1		2/10/2010	ON	5/8x3/4	09-03050-6873665
1		2/9/2010	ON	5/8x3/4	07-16001-6873666
1		1/29/2010	ON	5/8x3/4	13-10615-6873667
1		9/29/2010	ON	5/8x3/4	06-07212-6873668
1		10/11/2010	ON	5/8x3/4	11-22830-6873669
1		10/6/2010	ON	5/8x3/4	13-05080-6873671
1		8/31/2010	ON	5/8x3/4	11-02010-6873672
1		10/7/2010	ON	5/8x3/4	09-04100-6873685
1		11/5/2015	ON	5/8x3/4	04-02225-7372326
1		1/4/2010	ON	5/8x3/4	04-02015-7470598
1	RADIO	3/5/2019	ON	5/8x3/4	07-12225-07518381
1		11/23/2010	ON	5/8x3/4	12-07910-7668628
1		12/15/2010	ON	5/8x3/4	03-13831-7668665
1		11/8/2010	ON	5/8x3/4	13-06005-7668666
1		10/20/2010	ON	5/8x3/4	03-11702-7668667
1	MANUAL	3/31/2021	ON	5/8x3/4	12-03205-07722470
1		2/8/2011	ON	5/8x3/4	05-05900-7800534
1		1/25/2011	ON	5/8x3/4	11-00110-7800538
1		4/27/2011	ON	5/8x3/4	13-06000-7800541
1		3/22/2011	ON	5/8x3/4	10-03520-7800542
1		2/15/2011	ON	5/8x3/4	05-08055-7800544
1		5/25/2011	ON	5/8x3/4	05-03330-7800547
1		5/20/2011	ON	5/8x3/4	09-09351-7800549
1		12/12/2011	ON	5/8x3/4	12-04316-7800550
1		8/25/2011	ON	5/8x3/4	07-11601-7800551
1		4/19/2011	ON	5/8x3/4	07-06419-7800552
1		12/12/2011	ON	5/8x3/4	12-04401-7800553
1			ON	5/8x3/4	13-03502-8214473
1	R T		ON	5/8x3/4	09-03305-8214477
1			ON	5/8x3/4	02-01100-8214480
1			ON	5/8x3/4	02-07210-8214482

1			ON	5/8x3/4	03-04801-8216977
0.5			ON	5/8x3/4	03-12105-8216992
1		10/17/1997	ON	5/8x3/4	09-01500-8217621
1			ON	5/8x3/4	07-17501-8217628
1			ON	5/8x3/4	03-08301-8226413
1			ON	5/8x3/4	02-02951-8226433
1			ON	5/8x3/4	10-03980-8226520
1			ON	5/8x3/4	07-12301-8226522
1			ON	5/8x3/4	07-16803-8226541
1			ON	5/8x3/4	09-02620-8226598
1			ON	5/8x3/4	08-02100-8226605
1		10/23/1997	ON	5/8x3/4	09-02607-8226608
1			ON	5/8x3/4	06-03300-8226609
1			ON	5/8x3/4	02-00950-8226627
1			ON	5/8x3/4	10-03560-8254183
1			ON	5/8x3/4	13-08150-8254184
1	MANUAL		ON	5/8x3/4	05-10411-8257701
1			ON	5/8x3/4	12-05710-8279744
1			ON	5/8x3/4	08-12600-8303462
1			ON	5/8x3/4	07-06415-8303463
1			ON	5/8x3/4	14-04600-8303464
1			ON	5/8x3/4	14-04105-8310321
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1			ON	5/8x3/4	02-07230-8310953
1			ON	5/8x3/4	09-01100-8317333
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1			ON	5/8x3/4	03-11401-8317388
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1			ON	5/8x3/4	10-05300-8325175
1			ON	5/8x3/4	02-11500-8325177
1			ON	5/8x3/4	07-18902-8339374
1			ON	5/8x3/4	03-10903-8339376
1			ON	5/8x3/4	08-01800-8339392
1			ON	5/8x3/4	03-05200-8372462
1			ON	5/8x3/4	01-06701-8372464
1			ON	5/8x3/4	04-01100-8376454
1			ON	5/8x3/4	04-00995-8376455
1			ON	5/8x3/4	02-00975-8376574
1			ON	5/8x3/4	07-17103-8378747
1			ON	5/8x3/4	08-13300-8379740
1		10/10/1997	ON	5/8x3/4	03-07900-8379746
1			ON	5/8x3/4	13-06502-8379749
1			ON	5/8x3/4	07-11803-8379752
1			ON	5/8x3/4	08-01200-8388563
1			ON	5/8x3/4	06-12100-8388590
0.5			ON	5/8x3/4	08-01601-8388591

1			ON	5/8x3/4	11-21723-8388643
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1	MANUAL		ON	5/8x3/4	08-14700-8388648
1			ON	5/8x3/4	09-00140-8388652
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1			ON	5/8x3/4	08-10600-8441062
1			ON	5/8x3/4	14-04090-8441064
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1	R T	6/2/2020	ON	5/8x3/4	12-12090-8441071
1			ON	5/8x3/4	06-12901-8441094
1			ON	5/8x3/4	05-00100-8441130
1			ON	5/8x3/4	09-00130-8441132
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1			ON	5/8x3/4	06-10300-8441180
1			ON	5/8x3/4	06-10700-8441185
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1			ON	5/8x3/4	05-07600-8446603
1			ON	5/8x3/4	05-07300-8446605
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1			ON	5/8x3/4	06-07800-8449588
1			ON	5/8x3/4	14-09251-8449591
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1			ON	5/8x3/4	09-09324-8449596
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1		4/3/1997	ON	5/8x3/4	06-03100-8471890
1			ON	5/8x3/4	04-00135-8471918
1			ON	5/8x3/4	04-00130-8471920
1			ON	5/8x3/4	09-08402-8473527
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1			ON	5/8x3/4	02-05600-8511317
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1			ON	5/8x3/4	11-11108-8533678
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1			ON	5/8x3/4	11-21549-8565469
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1	R T		ON	5/8x3/4	01-14200-8565577
1	MANUAL		ON	5/8x3/4	07-16908-8571632
1			ON	5/8x3/4	03-09900-8571637
1		2/7/2022	ON	5/8x3/4	05-03603-8571665
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1			ON	5/8x3/4	06-03801-8571864
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1			ON	5/8x3/4	08-12714-8621303
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1			ON	5/8x3/4	11-22931-8621327
1			ON	5/8x3/4	08-01000-8621356

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1		4/1/2008	ON	5/8x3/4	03-08796-8624641
1			ON	5/8x3/4	07-14603-8624642
1			ON	5/8x3/4	07-06740-8624643
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1			ON	5/8x3/4	14-02802-8709347
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1			ON	5/8x3/4	13-08140-8709436
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1			ON	5/8x3/4	02-11200-8709528
1			ON	5/8x3/4	07-14712-8716360
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1	R T		ON	5/8x3/4	05-01702-8716428
1			ON	5/8x3/4	01-06812-8716431
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1			ON	5/8x3/4	11-22950-8716454
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1			ON	5/8x3/4	05-01104-8742813
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1			ON	5/8x3/4	14-04065-8742817
1			ON	5/8x3/4	14-04068-8742819
1			ON	5/8x3/4	10-03515-8742827
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1			ON	5/8x3/4	06-13200-8806665
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1			ON	5/8x3/4	12-04310-8814073
1			ON	5/8x3/4	09-05631-8817148
1			ON	5/8x3/4	11-13885-8817151

1		9/15/1997	ON	5/8x3/4	05-00501-8817152
1			ON	5/8x3/4	11-22710-8817153
1			ON	5/8x3/4	05-03190-8817263
1			ON	5/8x3/4	04-00110-8817264
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1			ON	5/8x3/4	10-05301-8842466
1			ON	5/8x3/4	10-03370-8842467
1			ON	5/8x3/4	07-19204-8842469
1	RADIO	4/8/2022	ON	5/8x3/4	06-01760-9120360
1	RADIO	3/31/2022	ON	5/8x3/4	06-00660-9120361
1	RADIO	4/8/2022	ON	5/8x3/4	06-01771-9120362
1	RADIO	3/23/2022	ON	5/8x3/4	06-00600-9120363
1	RADIO	4/8/2022	ON	5/8x3/4	06-01750-9120365
1	RADIO	3/31/2022	ON	5/8x3/4	06-01800-9120366
1			ON	5/8x3/4	07-06450-9509920
1	MANUAL	5/27/2022	ON	5/8x3/4	05-07702-9683340
1	MANUAL	6/3/2022	ON	5/8x3/4	05-06100-9683341
1	RADIO	6/17/2022	ON	5/8x3/4	07-13512-9683343
1	MANUAL	5/23/2022	ON	5/8x3/4	11-11201-9683344
1	RADIO	4/28/2022	ON	5/8x3/4	07-10003-9683345
1	RADIO	7/20/2022	ON	5/8x3/4	01-06323-9683346
1	MANUAL	7/19/2022	ON	5/8x3/4	10-07489-9683347
1	MANUAL	7/19/2022	ON	5/8x3/4	10-07489-9683348
1	RADIO	2/23/2022	ON	5/8x3/4	06-00150-9683349
1	RADIO	2/23/2022	ON	5/8x3/4	06-02850-9683350
1	RADIO	11/29/2022	ON	5/8x3/4	06-01273-9683353
1	RADIO	2/23/2022	ON	5/8x3/4	06-00120-9683354
1	RADIO	4/26/2022	ON	5/8x3/4	06-00700-9683355
1	RADIO	4/27/2022	ON	5/8x3/4	06-01265-9683356
1	RADIO	4/27/2022	ON	5/8x3/4	06-01269-9683357
1	RADIO	4/26/2022	ON	5/8x3/4	06-01230-9683358
1	RADIO	4/26/2022	ON	5/8x3/4	06-00800-9683359
1	RADIO	4/28/2022	ON	5/8x3/4	01-11000-9683360
1	RADIO	4/27/2022	ON	5/8x3/4	06-01266-9683363
1	RADIO	4/26/2022	ON	5/8x3/4	06-00750-9683364
1	RADIO	5/25/2022	ON	5/8x3/4	06-01795-9683365
1	RADIO	5/23/2022	ON	5/8x3/4	11-08500-9683366
1	RADIO	6/2/2022	ON	5/8x3/4	09-09226-9683367
1	RADIO	6/24/2022	ON	5/8x3/4	10-07152-9683368
1	RADIO	5/3/2022	ON	5/8x3/4	01-07500-9683369
1	RADIO	5/23/2022	ON	5/8x3/4	11-07250-9683370
1	RADIO	5/24/2022	ON	5/8x3/4	09-00060-9683371
1	RADIO	5/23/2022	ON	5/8x3/4	11-09845-9683372
1	RADIO	5/26/2022	ON	5/8x3/4	11-04000-9683373

1	RADIO	6/24/2022	ON	5/8x3/4	09-06035-9683374
1	RADIO	5/26/2022	ON	5/8x3/4	14-08710-9683375
1	RADIO	5/24/2022	ON	5/8x3/4	14-07500-9683376
1	RADIO	6/4/2014	ON	5/8x3/4	11-09990-9816212
1	RADIO	6/4/2014	ON	5/8x3/4	11-05000-9816217
1	RADIO	3/25/2014	ON	5/8x3/4	07-20007-9816219
1	RADIO	6/4/2014	ON	5/8x3/4	11-09932-9816221
1	RADIO	7/16/2014	ON	5/8x3/4	08-10500-9964862
1	RADIO	7/17/2014	ON	5/8x3/4	12-08005-9964864
1	RADIO	8/14/2014	ON	5/8x3/4	07-20066-9964865
1	RADIO	8/6/2014	ON	5/8x3/4	01-06263-9964866
1	RADIO	8/19/2014	ON	5/8x3/4	13-07025-9964871
1	RADIO	7/1/2014	ON	5/8x3/4	11-10558-9964873
1	RADIO	7/22/2015	ON	5/8x3/4	01-18550-9975659
1	RADIO	6/30/2015	ON	5/8x3/4	07-16303-9975660
1	RADIO	6/1/2015	ON	5/8x3/4	12-05725-9975661
1	RADIO	6/1/2015	ON	5/8x3/4	04-00895-9975663
1	RADIO	5/15/2015	ON	5/8x3/4	10-03285-9975664
1	RADIO	7/22/2014	ON	5/8x3/4	10-03161-9975665
1	RADIO	9/9/2014	ON	5/8x3/4	03-08240-9975668
1	RADIO	8/6/2014	ON	5/8x3/4	09-00250-9975669
1	RADIO	9/10/2014	ON	5/8x3/4	05-00600-10022168
1	RADIO	9/10/2014	ON	5/8x3/4	05-11205-10022171
1	RADIO	9/29/2014	ON	5/8x3/4	09-03600-10022172
1	RADIO	9/29/2014	ON	5/8x3/4	12-05000-10022174
1	RADIO	9/17/2014	ON	5/8x3/4	12-02200-10022175
0.5	RADIO	10/8/2014	ON	5/8x3/4	02-00450-10022178
1	RADIO	10/27/2014	ON	5/8x3/4	07-20039-10022179
1	RADIO	8/13/2015	ON	5/8x3/4	07-17305-10036761
1	RADIO	7/8/2016	ON	5/8x3/4	05-12304-10036763
1	RADIO	7/27/2016	ON	5/8x3/4	11-06800-10036770
1	RADIO	8/3/2015	ON	5/8x3/4	11-21411-10036772
1	RADIO	9/24/2015	ON	5/8x3/4	10-03705-10036777
1	RADIO	5/1/2015	ON	5/8x3/4	10-03360-10036779
1	RADIO	3/7/2017	ON	5/8x3/4	11-10300-10036780
1	RADIO	4/6/2015	ON	5/8x3/4	11-09820-10036782
1	RADIO	12/2/2015	ON	5/8x3/4	11-06100-10036784
1	RADIO	12/7/2015	ON	5/8x3/4	11-07222-10036785
1	RADIO	12/2/2015	ON	5/8x3/4	11-06700-10036786
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1	RADIO	12/12/2016	ON	5/8x3/4	01-12810-10036790
1	RADIO	12/2/2015	ON	5/8x3/4	11-13895-10036791
1	RADIO	12/7/2015	ON	5/8x3/4	02-05105-10036792
1	RADIO	12/2/2015	ON	5/8x3/4	11-09100-10036793
1	RADIO	9/17/2014	ON	5/8x3/4	11-09401-10036796
1	RADIO	9/17/2014	ON	5/8x3/4	11-09575-10036798
1	RADIO	9/17/2014	ON	5/8x3/4	11-09840-10036800

1	RADIO	9/17/2014	ON	5/8x3/4	11-09910-10036801
1	RADIO	9/17/2014	ON	5/8x3/4	11-05600-10036804
1	RADIO	1/11/2016	ON	5/8x3/4	04-00255-10057405
1	RADIO	1/11/2016	ON	5/8x3/4	04-00805-10057406
1	RADIO	2/26/2015	ON	5/8x3/4	07-20070-10057411
1	RADIO	2/26/2015	ON	5/8x3/4	05-10800-10057412
0.5	RADIO	4/2/2015	ON	5/8x3/4	13-08600-10057416
1	RADIO	1/6/2017	ON	5/8x3/4	02-00175-10057417
1	RADIO	3/3/2016	ON	5/8x3/4	07-17412-10057418
0.75	RADIO	4/16/2015	ON	5/8x3/4	12-07000-10057419
1	RADIO	11/13/2015	ON	5/8x3/4	05-08800-10057421
1	RADIO	1/11/2016	ON	5/8x3/4	02-07310-10057422
1	RADIO	11/13/2015	ON	5/8x3/4	05-10210-10057423
1	RADIO	11/5/2015	ON	5/8x3/4	03-12120-10057426
1	RADIO	10/30/2014	ON	5/8x3/4	11-11154-10076945
1	RADIO	10/29/2014	ON	5/8x3/4	07-20022-10076946
1	RADIO	10/29/2014	ON	5/8x3/4	10-01100-10076948
1	RADIO	10/29/2014	ON	5/8x3/4	02-07160-10076949
1	RADIO	11/10/2014	ON	5/8x3/4	04-00150-10076951
1	RADIO	10/29/2014	ON	5/8x3/4	03-12900-10076953
1	RADIO	10/28/2014	ON	5/8x3/4	09-00090-10076955
1	RADIO	10/27/2014	ON	5/8x3/4	07-20014-10076956
1	RADIO	2/9/2015	ON	5/8x3/4	08-11204-10095074
1	RADIO	1/7/2015	ON	5/8x3/4	02-06100-10095075
1	RADIO	2/3/2015	ON	5/8x3/4	11-22741-10095077
1	RADIO	2/3/2015	ON	5/8x3/4	11-22731-10095081
1	RADIO	10/29/2014	ON	5/8x3/4	10-06439-10095089
1	RADIO	11/18/2014	ON	5/8x3/4	07-10111-10095090
1	RADIO	11/20/2014	ON	5/8x3/4	13-00631-10095094
1	RADIO	4/29/2015	ON	5/8x3/4	01-15400-10095095
1	RADIO	4/29/2015	ON	5/8x3/4	07-20012-10095097
1	RADIO	7/23/2015	ON	5/8x3/4	07-20003-10095098
1	RADIO	5/28/2015	ON	5/8x3/4	10-07460-10095099
1	RADIO	7/27/2016	ON	5/8x3/4	11-09965-10095101
1	RADIO	5/23/2016	ON	5/8x3/4	11-04403-10095102
0.25	RADIO	3/21/2018	ON	5/8x3/4	01-15633-10095105
1	RADIO	6/13/2016	ON	5/8x3/4	08-14200-10095106
1	RADIO	1/26/2016	ON	5/8x3/4	14-03130-10095107
1	RADIO	10/28/2015	ON	5/8x3/4	14-03310-10095110
1	RADIO	12/9/2016	ON	5/8x3/4	10-04800-10095112
1	RADIO	5/26/2016	ON	5/8x3/4	05-03280-10095115
1	RADIO	3/3/2016	ON	5/8x3/4	11-09835-10095116
1	RADIO	7/27/2016	ON	5/8x3/4	11-09865-10095118
1	RADIO	8/7/2015	ON	5/8x3/4	11-21250-10095122
1	RADIO	7/28/2015	ON	5/8x3/4	03-08902-10095123
1	RADIO	2/16/2016	ON	5/8x3/4	03-10000-10095126
1	RADIO	2/16/2016	ON	5/8x3/4	09-09309-10095127

1	RADIO	1/11/2016	ON	5/8x3/4	04-00095-10095129
1		7/20/2012	ON	5/8x3/4	09-08300-10230832
1	RADIO	7/27/2016	ON	5/8x3/4	11-09800-10478132
1	RADIO	8/1/2016	ON	5/8x3/4	12-14815-10478133
1	RADIO	6/28/2016	ON	5/8x3/4	08-03114-10478135
1	RADIO	9/26/2016	ON	5/8x3/4	11-02710-10478137
1	RADIO	7/18/2016	ON	5/8x3/4	01-11500-10478138
1	RADIO	7/18/2016	ON	5/8x3/4	01-11400-10478139
1	RADIO	11/28/2017	ON	5/8x3/4	04-00065-10478143
1	RADIO	7/18/2016	ON	5/8x3/4	11-01007-10478144
1	RADIO	7/18/2016	ON	5/8x3/4	01-08400-10478145
1	RADIO	7/18/2016	ON	5/8x3/4	01-07700-10478147
1	RADIO	7/18/2016	ON	5/8x3/4	01-13740-10478148
1	RADIO	7/18/2016	ON	5/8x3/4	01-13721-10478149
1	RADIO	5/2/2016	ON	5/8x3/4	11-02180-10478150
1	RADIO	7/18/2016	ON	5/8x3/4	11-01050-10478151
1	RADIO	7/18/2016	ON	5/8x3/4	01-13730-10478153
0.5	RADIO	7/18/2016	ON	5/8x3/4	01-08748-10478154
1	RADIO	7/18/2016	ON	5/8x3/4	01-09010-10478155
1	RADIO	7/18/2016	ON	5/8x3/4	01-11900-10478157
1	RADIO	11/15/2016	ON	5/8x3/4	01-07800-10478158
1	RADIO	9/27/2016	ON	5/8x3/4	07-20045-10478159
1	RADIO	11/15/2016	ON	5/8x3/4	01-08006-10478160
1	RADIO	8/23/2016	ON	5/8x3/4	14-08185-10478161
1	RADIO	7/18/2016	ON	5/8x3/4	01-11650-10478164
1	RADIO	7/18/2016	ON	5/8x3/4	01-09001-10478165
1	RADIO	7/18/2016	ON	5/8x3/4	01-11602-10478166
1	RADIO	7/18/2016	ON	5/8x3/4	01-11701-10478167
1	RADIO	6/10/2016	ON	5/8x3/4	14-07575-10500385
1	RADIO	6/10/2016	ON	5/8x3/4	09-00040-10500386
1	RADIO	6/10/2016	ON	5/8x3/4	09-00030-10500387
1	RADIO	6/10/2016	ON	5/8x3/4	09-01905-10500391
1	RADIO	6/10/2016	ON	5/8x3/4	08-06600-10500392
1	RADIO	6/10/2016	ON	5/8x3/4	09-01920-10500393
1	RADIO	6/10/2016	ON	5/8x3/4	09-04601-10500394
1	RADIO	6/10/2016	ON	5/8x3/4	08-06501-10500395
1	RADIO	6/10/2016	ON	5/8x3/4	09-01915-10500396
1	RADIO	6/10/2016	ON	5/8x3/4	08-09600-10500397
1	RADIO	6/10/2016	ON	5/8x3/4	08-09850-10500398
1	RADIO	6/10/2016	ON	5/8x3/4	08-09855-10500399
1	RADIO	6/10/2016	ON	5/8x3/4	08-09420-10500400
1	RADIO	6/10/2016	ON	5/8x3/4	08-13220-10500401
1	RADIO	6/10/2016	ON	5/8x3/4	08-09700-10500402
1	RADIO	6/1/2016	ON	5/8x3/4	08-09110-10500403
1	RADIO	6/1/2016	ON	5/8x3/4	08-08900-10500404
1	RADIO	6/1/2016	ON	5/8x3/4	08-08500-10500405
1	RADIO	6/1/2016	ON	5/8x3/4	08-08800-10500406

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1	RADIO	6/1/2016	ON	5/8x3/4	08-08700-10500408
1	RADIO	6/10/2016	ON	5/8x3/4	09-00035-10500412
1	RADIO	6/10/2016	ON	5/8x3/4	09-01700-10500413
1	RADIO	6/30/2016	ON	5/8x3/4	08-07800-10500420
1	RADIO	6/29/2016	ON	5/8x3/4	08-07400-10500424
1	RADIO	6/29/2016	ON	5/8x3/4	08-07201-10500425
1	RADIO	6/21/2016	ON	5/8x3/4	08-05906-10500426
1	RADIO	6/10/2016	ON	5/8x3/4	08-03400-10500427
1	RADIO	6/10/2016	ON	5/8x3/4	08-03602-10500428
1	RADIO	6/10/2016	ON	5/8x3/4	08-09800-10500429
1	RADIO	6/10/2016	ON	5/8x3/4	08-03300-10500432
1	RADIO	6/10/2016	ON	5/8x3/4	09-04911-10500434
1	RADIO	6/1/2016	ON	5/8x3/4	08-08200-10500436
1	RADIO	6/1/2016	ON	5/8x3/4	08-08400-10500438
1	RADIO	6/10/2016	ON	5/8x3/4	08-09300-10500439
1	RADIO	6/10/2016	ON	5/8x3/4	08-09209-10500441
1	RADIO	6/10/2016	ON	5/8x3/4	08-04629-10500443
1	RADIO	6/10/2016	ON	5/8x3/4	09-02500-10500445
1	RADIO	6/1/2016	ON	5/8x3/4	08-08600-10500447
1	RADIO	11/15/2022	ON	5/8x3/4	09-01909-10500449
1	RADIO	6/10/2016	ON	5/8x3/4	09-01912-10500450
1	RADIO	6/10/2016	ON	5/8x3/4	09-05600-10500451
1	RADIO	6/10/2016	ON	5/8x3/4	09-05201-10500452
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1	RADIO	6/10/2016	ON	5/8x3/4	09-05401-10500456
1	RADIO	6/29/2016	ON	5/8x3/4	08-03612-10500458
1	RADIO	6/10/2016	ON	5/8x3/4	08-03604-10500459
1	RADIO	6/29/2016	ON	5/8x3/4	08-03606-10500460
1	RADIO	6/29/2016	ON	5/8x3/4	08-03608-10500461
1	RADIO	6/29/2016	ON	5/8x3/4	08-03614-10500462
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1	RADIO	1/3/2017	ON	5/8x3/4	07-09650-10500469
1	RADIO	8/12/2016	ON	5/8x3/4	07-08902-10500471
1	RADIO	11/22/2016	ON	5/8x3/4	12-06922-10500473
1	RADIO	7/7/2016	ON	5/8x3/4	07-08700-10500474
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1	RADIO	1/3/2017	ON	5/8x3/4	07-09710-10500479
1	RADIO	1/3/2017	ON	5/8x3/4	07-09900-10500480
1	RADIO	6/29/2016	ON	5/8x3/4	08-06400-10500481
1	RADIO	6/29/2016	ON	5/8x3/4	08-04600-10500482
1	RADIO	6/29/2016	ON	5/8x3/4	08-06700-10500484
1	RADIO	6/29/2016	ON	5/8x3/4	08-04512-10500485
1	RADIO	6/29/2016	ON	5/8x3/4	08-05700-10500487

1	RADIO	11/15/2019	ON	5/8x3/4	08-03620-10500489
1	RADIO	6/29/2016	ON	5/8x3/4	08-03618-10500490
1	RADIO	6/29/2016	ON	5/8x3/4	08-05600-10500491
1	RADIO	6/29/2016	ON	5/8x3/4	08-03616-10500492
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1	RADIO	6/28/2016	ON	5/8x3/4	07-07100-10500495
1	RADIO	6/29/2016	ON	5/8x3/4	07-07300-10500496
1	RADIO	6/28/2016	ON	5/8x3/4	08-03200-10500498
1	RADIO	6/29/2016	ON	5/8x3/4	08-06300-10500499
1	RADIO	6/29/2016	ON	5/8x3/4	08-06200-10500500
1	RADIO	6/29/2016	ON	5/8x3/4	08-06900-10500501
1	RADIO	6/29/2016	ON	5/8x3/4	08-07000-10500502
1	RADIO	7/13/2016	ON	5/8x3/4	07-08502-10500507
1	RADIO	6/30/2016	ON	5/8x3/4	07-08400-10500508
1	RADIO	7/1/2016	ON	5/8x3/4	07-08600-10500509
1	RADIO	7/1/2016	ON	5/8x3/4	07-09018-10500510
1	RADIO	7/7/2016	ON	5/8x3/4	08-02800-10500511
1	RADIO	7/6/2016	ON	5/8x3/4	07-10011-10500512
1	RADIO	7/6/2016	ON	5/8x3/4	07-09400-10500514
1	RADIO	7/7/2016	ON	5/8x3/4	08-02900-10500516
1	RADIO	6/30/2016	ON	5/8x3/4	07-07800-10500518
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1	RADIO	6/24/2016	ON	5/8x3/4	08-03800-10500523
1	RADIO	6/29/2016	ON	5/8x3/4	08-05103-10500526
1	RADIO	10/10/2016	ON	5/8x3/4	07-09100-10500532
1	RADIO	7/6/2016	ON	5/8x3/4	07-05800-10500533
1	RADIO	6/29/2016	ON	5/8x3/4	08-03610-10500757
1	RADIO	6/1/2016	ON	5/8x3/4	08-08002-10580433
1	RADIO	7/18/2016	ON	5/8x3/4	01-10500-10598682
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1	RADIO	7/18/2016	ON	5/8x3/4	01-07600-10598697
1	RADIO	11/28/2016	ON	5/8x3/4	01-08631-10598698
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1	RADIO	5/26/2017	ON	5/8x3/4	01-08157-10598700
1	RADIO	7/18/2016	ON	5/8x3/4	01-08610-10598701
1	RADIO	7/18/2016	ON	5/8x3/4	01-08651-10598702

1	RADIO	7/18/2016	ON	5/8x3/4	01-08810-10598703
1	RADIO	7/18/2016	ON	5/8x3/4	01-08704-10598704
1	RADIO	7/18/2016	ON	5/8x3/4	01-13700-10598706
1	RADIO	7/18/2016	ON	5/8x3/4	01-08304-10598707
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1	RADIO	7/21/2016	ON	5/8x3/4	11-02175-10598710
1	RADIO	5/2/2016	ON	5/8x3/4	11-00511-10598713
1	RADIO	5/3/2016	ON	5/8x3/4	11-02185-10598716
1	RADIO	5/2/2016	ON	5/8x3/4	11-02460-10598717
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1	RADIO	6/27/2016	ON	5/8x3/4	01-08500-10675454
1	RADIO	7/12/2016	ON	5/8x3/4	04-01232-10675455
1	RADIO	6/14/2016	ON	5/8x3/4	12-14889-10675456
1	RADIO	7/12/2016	ON	5/8x3/4	07-16404-10675459
1	RADIO	7/27/2016	ON	5/8x3/4	11-09930-10675460
1	RADIO	7/12/2016	ON	5/8x3/4	04-01235-10675461
1	RADIO	7/22/2016	ON	5/8x3/4	11-07900-10675463
1	RADIO	7/20/2016	ON	5/8x3/4	04-00120-10675465
1	RADIO	7/7/2016	ON	5/8x3/4	04-00855-10675466
1	RADIO	6/22/2016	ON	5/8x3/4	11-09955-10675469
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1	RADIO	8/8/2016	ON	5/8x3/4	05-12901-10675478
1	RADIO	8/23/2016	ON	5/8x3/4	11-04900-10675481
1	RADIO	8/8/2016	ON	5/8x3/4	05-00411-10675482
1	RADIO	8/24/2016	ON	5/8x3/4	11-09300-10675483
1	RADIO	9/27/2016	ON	5/8x3/4	07-20076-10675484
1	RADIO	9/27/2016	ON	5/8x3/4	07-20000-10675485
1	RADIO	12/9/2016	ON	5/8x3/4	02-06016-10733454
1	RADIO	10/26/2016	ON	5/8x3/4	11-11155-10733457
1	RADIO	10/26/2016	ON	5/8x3/4	03-04708-10733458
1	RADIO	10/25/2016	ON	5/8x3/4	09-09000-10733461
1	RADIO	10/26/2016	ON	5/8x3/4	09-07800-10733462
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1	RADIO	12/5/2016	ON	5/8x3/4	11-06001-10733468
1	RADIO	12/8/2016	ON	5/8x3/4	05-00450-10733469
1	RADIO	12/9/2016	ON	5/8x3/4	02-04901-10733470

1	RADIO	11/29/2016	ON	5/8x3/4	11-13860-10733471
1	RADIO	11/17/2016	ON	5/8x3/4	07-16605-10733474
1	RADIO	11/3/2016	ON	5/8x3/4	01-11805-10733475
1	RADIO	12/1/2016	ON	5/8x3/4	01-11302-10733476
1	RADIO	11/17/2016	ON	5/8x3/4	05-01902-10733477
1	RADIO	9/27/2016	ON	5/8x3/4	12-05300-10733480
1	RADIO	8/25/2016	ON	5/8x3/4	01-07902-10733481
1	RADIO	9/29/2016	ON	5/8x3/4	10-07695-10733482
1	RADIO	9/29/2016	ON	5/8x3/4	11-10900-10733483
1	RADIO	9/29/2016	ON	5/8x3/4	11-10921-10733484
1	RADIO	10/22/2018	ON	5/8x3/4	05-11400-10858619
1	RADIO	6/3/2020	ON	5/8x3/4	07-20096-10858625
1	RADIO	2/16/2017	ON	5/8x3/4	03-12796-10862722
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1	RADIO	2/16/2017	ON	5/8x3/4	03-12775-10862724
1	RADIO	2/16/2017	ON	5/8x3/4	03-12764-10862725
1	RADIO	2/16/2017	ON	5/8x3/4	03-12960-10862726
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1	RADIO	2/16/2017	ON	5/8x3/4	03-12723-10862730
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1	RADIO	2/16/2017	ON	5/8x3/4	03-13850-10862734
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1	RADIO	2/16/2017	ON	5/8x3/4	03-13950-10862736
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1	RADIO	2/16/2017	ON	5/8x3/4	03-14150-10862739
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1	RADIO	2/16/2017	ON	5/8x3/4	03-13575-10862741
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1	RADIO	2/16/2017	ON	5/8x3/4	03-12108-10862743
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1	RADIO	2/16/2017	ON	5/8x3/4	05-05290-10862745
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1	RADIO	3/8/2017	ON	5/8x3/4	03-13832-10862752
1	RADIO	3/8/2017	ON	5/8x3/4	10-03290-10862753
1	RADIO	3/22/2017	ON	5/8x3/4	14-07022-10862754
1	RADIO	3/8/2017	ON	5/8x3/4	05-03145-10862755
1	RADIO	2/28/2017	ON	5/8x3/4	05-05284-10862757
1	RADIO	2/27/2017	ON	5/8x3/4	10-07219-10883744
1	RADIO	2/23/2017	ON	5/8x3/4	06-01250-10883745
1	RADIO	2/23/2017	ON	5/8x3/4	02-06500-10883747
1	RADIO	2/23/2017	ON	5/8x3/4	09-05700-10883748

1	RADIO	4/7/2017	ON	5/8x3/4	09-05900-10883749
1	RADIO	4/7/2017	ON	5/8x3/4	03-09200-10883750
1	RADIO	4/26/2017	ON	5/8x3/4	03-03700-10883751
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1	RADIO	5/7/2019	ON	5/8x3/4	11-07703-10905544
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1	RADIO	10/26/2017	ON	5/8x3/4	14-03305-11039333
1	RADIO	6/28/2018	ON	5/8x3/4	11-10100-11133475
1	RADIO	1/10/2018	ON	5/8x3/4	10-07551-11133476
1	RADIO	4/24/2018	ON	5/8x3/4	07-09720-11194116
1	RADIO	3/29/2018	ON	5/8x3/4	11-02160-11194126
1	RADIO	2/9/2018	ON	5/8x3/4	08-12511-11194134
1	RADIO	6/11/2018	ON	5/8x3/4	07-11000-11234033
1	RADIO	5/31/2018	ON	5/8x3/4	11-02765-11234037
1	RADIO	5/31/2018	ON	5/8x3/4	02-02660-11234038
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1	RADIO	10/12/2018	ON	5/8x3/4	04-02255-11411041
1	RADIO	10/12/2018	ON	5/8x3/4	03-04504-11411042
1	RADIO	10/29/2018	ON	5/8x3/4	11-21902-11411043
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1	RADIO	9/4/2018	ON	5/8x3/4	02-03000-11411048
1	RADIO	1/24/2019	ON	5/8x3/4	12-00300-11411053
1	RADIO	1/25/2019	ON	5/8x3/4	09-05751-11411057
1	RADIO	1/25/2019	ON	5/8x3/4	07-20015-11411059
1	RADIO	2/4/2019	ON	5/8x3/4	02-02340-11411062
1	RADIO	1/30/2019	ON	5/8x3/4	10-04419-11411063
1	RADIO	8/27/2018	ON	5/8x3/4	11-07002-11411064
1	RADIO	8/27/2018	ON	5/8x3/4	07-19506-11411067
1	RADIO	12/3/2018	ON	5/8x3/4	03-05100-11411084
1	RADIO	8/31/2018	ON	5/8x3/4	11-22810-11411085
1	RADIO	8/27/2018	ON	5/8x3/4	11-00520-11411086
0.5	RADIO	8/29/2018	ON	5/8x3/4	05-12602-11411087
1	RADIO	4/29/2019	ON	5/8x3/4	03-08706-11411089
1	RADIO	2/26/2019	ON	5/8x3/4	07-10101-11411093
1	RADIO	11/30/2018	ON	5/8x3/4	11-09977-11411094
1	RADIO	11/30/2018	ON	5/8x3/4	11-10010-11411098
1	RADIO	12/6/2018	ON	5/8x3/4	02-00100-11411100
1	RADIO	1/22/2019	ON	5/8x3/4	10-07454-11411107
1	RADIO	3/13/2019	ON	5/8x3/4	10-07700-11411108
1	RADIO	2/26/2019	ON	5/8x3/4	12-10105-11411109
1	RADIO	3/7/2019	ON	5/8x3/4	11-21230-11411111
1	RADIO	7/11/2019	ON	5/8x3/4	01-07300-11539828
1	RADIO	5/28/2019	ON	5/8x3/4	11-11157-11539829
1	RADIO	6/7/2019	ON	5/8x3/4	01-13215-11539830

1	RADIO	7/9/2019	ON	5/8x3/4	05-03100-11539831
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1	RADIO	2/1/2019	ON	5/8x3/4	05-03160-11539836
1	RADIO	2/1/2019	ON	5/8x3/4	09-05761-11539837
1	RADIO	1/3/2019	ON	5/8x3/4	07-09600-11539843
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1	RADIO	6/7/2019	ON	5/8x3/4	01-14102-11539854
1	RADIO	6/7/2019	ON	5/8x3/4	01-13600-11539856
1	RADIO	6/10/2019	ON	5/8x3/4	09-09342-11539857
1	RADIO	3/28/2019	ON	5/8x3/4	11-05400-11539858
1	RADIO	3/28/2019	ON	5/8x3/4	07-06230-11539859
1	RADIO	4/29/2019	ON	5/8x3/4	07-14307-11539862
1	RADIO	6/10/2019	ON	5/8x3/4	11-08600-11539864
1	RADIO	5/28/2019	ON	5/8x3/4	10-07041-11539866
1	RADIO	6/11/2019	ON	5/8x3/4	11-21530-11539867
1	RADIO	2/26/2019	ON	5/8x3/4	12-14725-11539870
1	RADIO	3/13/2019	ON	5/8x3/4	08-13600-11539871
1	RADIO	7/1/2019	ON	5/8x3/4	10-07456-11539872
1	RADIO	4/3/2019	ON	5/8x3/4	02-01525-11539873
1	RADIO	4/2/2019	ON	5/8x3/4	01-15900-11539874
1	RADIO	6/7/2019	ON	5/8x3/4	01-13187-11539876
1	RADIO	6/27/2019	ON	5/8x3/4	13-09202-11539877
1	RADIO	6/7/2019	ON	5/8x3/4	01-13266-11539878
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1	RADIO	6/18/2019	ON	5/8x3/4	03-09100-11539880
1	RADIO	6/7/2019	ON	5/8x3/4	01-13253-11539881
1	RADIO	5/7/2019	ON	5/8x3/4	10-02750-11539882
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1	RADIO	5/8/2019	ON	5/8x3/4	08-11100-11539885
1	RADIO	4/3/2019	ON	5/8x3/4	01-18200-11539886
1	RADIO	3/28/2019	ON	5/8x3/4	10-05352-11539887
1	RADIO	2/11/2014	ON	5/8x3/4	11-09810-13289868
1	RADIO	2/4/2014	ON	5/8x3/4	11-04500-13289873
1	RADIO	4/10/2014	ON	5/8x3/4	11-08407-13289876
1	RADIO	7/8/2014	ON	5/8x3/4	11-09978-13289879
1	RADIO	6/1/2023	ON	5/8x3/4	08-13230-14369565
1	RADIO	6/4/2014	ON	5/8x3/4	11-09843-14369583
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1			ON	5/8x3/4	14-03110-18456783
1			ON	5/8x3/4	02-06570-18680227
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1			ON	5/8x3/4	03-09801-18680318
1		7/8/2002	ON	5/8x3/4	01-06270-18680322
1		2/8/2003	ON	5/8x3/4	11-10640-18680325

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1		8/5/2008	ON	5/8x3/4	03-10900-18680328
1		4/1/2003	ON	5/8x3/4	04-02045-18781545
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1	MANUAL	10/31/2003	ON	5/8x3/4	12-04900-18781550
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1		4/1/2003	ON	5/8x3/4	04-02205-18781557
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1		4/1/2003	ON	5/8x3/4	04-02275-18781559
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1		4/1/2003	ON	5/8x3/4	04-02105-18781589
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1		4/1/2003	ON	5/8x3/4	04-02150-18781609
1		4/1/2003	ON	5/8x3/4	04-02110-18781610
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1		4/1/2003	ON	5/8x3/4	04-02220-18781620
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1		4/1/2003	ON	5/8x3/4	04-02060-18781641
1		4/1/2003	ON	5/8x3/4	04-02055-18781642
1		4/1/2003	ON	5/8x3/4	04-02090-18781643
1		4/1/2003	ON	5/8x3/4	04-02085-18781644
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1		9/15/2005	ON	5/8x3/4	05-05701-18781673
1		4/1/2003	ON	5/8x3/4	04-02070-18781674
1		4/1/2003	ON	5/8x3/4	04-02250-18781675
1		4/24/2003	ON	5/8x3/4	04-02175-18781676
1		4/24/2003	ON	5/8x3/4	04-02170-18781679
1		7/15/2003	ON	5/8x3/4	06-01565-18781700
1		5/24/2003	ON	5/8x3/4	14-03196-18781702
1		8/13/1999	ON	5/8x3/4	01-14800-18781705
1		5/12/2003	ON	5/8x3/4	11-10635-18781706
1			ON	5/8x3/4	12-06910-18781708
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1	RADIO	6/7/2019	ON	5/8x3/4	01-13168-19140886

1	RADIO	6/7/2019	ON	5/8x3/4	01-12904-19140887
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1	RADIO	6/7/2019	ON	5/8x3/4	01-14117-19140890
1	RADIO	6/7/2019	ON	5/8x3/4	01-13227-19140891
1	RADIO	9/12/2019	ON	5/8x3/4	01-13154-19140892
1	RADIO	6/7/2019	ON	5/8x3/4	01-09312-19140893
1	RADIO	6/7/2019	ON	5/8x3/4	01-09500-19140894
1	RADIO	6/14/2019	ON	5/8x3/4	01-13192-19140895
1	RADIO	6/28/2019	ON	5/8x3/4	01-10920-19140898
1	RADIO	6/7/2019	ON	5/8x3/4	01-09700-19140900
1	RADIO	6/7/2019	ON	5/8x3/4	01-10406-19140903
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1	RADIO	6/7/2019	ON	5/8x3/4	01-10809-19140906
1	RADIO	6/7/2019	ON	5/8x3/4	01-10300-19140907
1	RADIO	6/7/2019	ON	5/8x3/4	01-09203-19140909
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1	RADIO	6/7/2019	ON	5/8x3/4	01-13176-19140914
1	RADIO	6/7/2019	ON	5/8x3/4	01-09300-19140915
1	RADIO	6/7/2019	ON	5/8x3/4	01-13204-19140916
1	RADIO	6/7/2019	ON	5/8x3/4	01-14130-19140917
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1	RADIO	6/7/2019	ON	5/8x3/4	01-12214-19140920
1	RADIO	6/6/2019	ON	5/8x3/4	01-12300-19140922
1	RADIO	6/7/2019	ON	5/8x3/4	01-11301-19140928
1	RADIO	6/6/2019	ON	5/8x3/4	01-12310-19140929
1	RADIO	6/6/2019	ON	5/8x3/4	01-12409-19140931
1	RADIO	6/7/2019	ON	5/8x3/4	01-12100-19140932
1	RADIO	6/7/2019	ON	5/8x3/4	01-12497-19140933
1	RADIO	6/7/2019	ON	5/8x3/4	01-13124-19140935
1	RADIO	6/26/2019	ON	5/8x3/4	10-01200-19140937
1	RADIO	7/11/2019	ON	5/8x3/4	10-06470-19140938
1	RADIO	6/27/2019	ON	5/8x3/4	05-03290-19140940
1	RADIO	7/11/2019	ON	5/8x3/4	01-14605-19140942
1	RADIO	6/26/2019	ON	5/8x3/4	09-00800-19140944
1	RADIO	6/24/2019	ON	5/8x3/4	10-07459-19140945
1	RADIO	6/7/2019	ON	5/8x3/4	01-12803-19140946
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1	RADIO	6/26/2019	ON	5/8x3/4	05-11380-19140952
1	RADIO	6/26/2019	ON	5/8x3/4	02-01600-19140953
1	RADIO	7/10/2019	ON	5/8x3/4	10-03080-19140955
1		9/19/2003	ON	5/8x3/4	11-10625-19267485
1		7/6/2004	ON	5/8x3/4	06-01296-19267492
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1		11/29/2004	ON	5/8x3/4	01-17900-19267496
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1	RADIO	5/7/2020	ON	5/8x3/4	09-02610-19286070
1	RADIO	4/27/2020	ON	5/8x3/4	10-07155-19286071
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1	RADIO	8/7/2020	ON	5/8x3/4	05-03180-19286081
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1	RADIO	7/22/2020	ON	5/8x3/4	14-03230-19286085
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1	RADIO	3/25/2020	ON	5/8x3/4	10-07150-19286089
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1	RADIO	4/27/2020	ON	5/8x3/4	11-05904-19286093
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1	RADIO	7/14/2020	ON	5/8x3/4	05-10270-19286105
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1	RADIO	7/14/2020	ON	5/8x3/4	11-09605-19286108
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1	RADIO	8/25/2020	ON	5/8x3/4	06-12310-19286117
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1	RADIO	1/28/2020	ON	5/8x3/4	07-20103-19286123
1	RADIO	12/31/2019	ON	5/8x3/4	13-00500-19286124
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1		12/23/2003	ON	5/8x3/4	01-06238-19453386
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1	MANUAL	12/17/2003	ON	5/8x3/4	07-06779-19453388
1		2/7/2004	ON	5/8x3/4	11-11145-19453391
1		1/6/2004	ON	5/8x3/4	02-01800-19453423
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1	MANUAL	11/21/2003	ON	5/8x3/4	08-13603-19453425
1		3/12/2004	ON	5/8x3/4	05-03600-19453427
1		12/13/2011	ON	5/8x3/4	12-14830-19453454
1		2/5/2004	ON	5/8x3/4	12-00280-19453456
1	MANUAL	10/27/2003	ON	5/8x3/4	11-10620-19453457
1		2/7/2004	ON	5/8x3/4	11-22720-19453461
1	MANUAL	8/26/2010	ON	5/8x3/4	12-04704-19453463
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1	RADIO	10/22/2020	ON	5/8x3/4	09-01901-19481199
1	RADIO	10/22/2020	ON	5/8x3/4	14-03490-19481201
1	RADIO	10/22/2020	ON	5/8x3/4	10-03592-19481203
1	RADIO	4/9/2020	ON	5/8x3/4	07-06418-19481204
1	RADIO	6/19/2020	ON	5/8x3/4	02-05900-19481205
1	RADIO	2/27/2020	ON	5/8x3/4	10-03090-19481206
1	RADIO	4/23/2020	ON	5/8x3/4	11-08001-19481207
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1	RADIO	10/27/2020	ON	5/8x3/4	10-06700-19481242
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1		2/8/2006	ON	5/8x3/4	14-04100-19732921
1		4/19/2004	ON	5/8x3/4	08-00803-19732924
1		9/28/2004	ON	5/8x3/4	01-18500-19732938
1		9/24/2004	ON	5/8x3/4	07-13903-19732939
1		4/28/2004	ON	5/8x3/4	13-09901-19733305
1		4/6/2004	ON	5/8x3/4	05-05210-19733308
1	RADIO	7/22/2019	ON	5/8x3/4	05-07500-19913694
1	RADIO	8/1/2019	ON	5/8x3/4	11-21644-19913696
1	RADIO	7/29/2019	ON	5/8x3/4	01-15300-19913699
1	RADIO	1/30/2020	ON	5/8x3/4	11-11106-19913700
1	RADIO	1/22/2020	ON	5/8x3/4	13-03220-19913702
1	RADIO	1/28/2020	ON	5/8x3/4	11-07550-19913703
1	RADIO	3/3/2020	ON	5/8x3/4	10-03511-19913704
1	RADIO	1/28/2020	ON	5/8x3/4	07-08650-19913705
1	RADIO	1/28/2020	ON	5/8x3/4	04-02185-19913706
1	RADIO	5/20/2020	ON	5/8x3/4	10-03100-19913708
1	RADIO	2/11/2020	ON	5/8x3/4	07-11402-19913709
1	RADIO	1/24/2020	ON	5/8x3/4	05-05200-19913710
1	RADIO	2/17/2020	ON	5/8x3/4	05-03130-19913711
1	RADIO	10/25/2019	ON	5/8x3/4	08-02202-19913712
1	RADIO	10/8/2019	ON	5/8x3/4	13-05300-19913715
1	RADIO	10/29/2019	ON	5/8x3/4	13-07185-19913717
1	RADIO	11/8/2019	ON	5/8x3/4	09-06120-19913719
1	RADIO	11/6/2019	OFF	5/8x3/4	03-09650-19913721
1	RADIO	10/23/2019	ON	5/8x3/4	09-01950-19913722
1	RADIO	1/23/2020	ON	5/8x3/4	09-09319-19913723
1	RADIO	10/23/2019	ON	5/8x3/4	09-09228-19913724
1	RADIO	10/23/2019	ON	5/8x3/4	10-07059-19913725
1	RADIO	10/23/2019	ON	5/8x3/4	10-03601-19913728
1	RADIO	7/30/2019	ON	5/8x3/4	08-12800-19913730
1	RADIO	8/28/2019	ON	5/8x3/4	05-07200-19913733
1	RADIO	8/27/2019	ON	5/8x3/4	04-02160-19913734
1	RADIO	8/27/2019	ON	5/8x3/4	14-04210-19913735
1	RADIO	8/5/2019	ON	5/8x3/4	01-13139-19913736
1	RADIO	8/27/2019	ON	5/8x3/4	07-17003-19913739
1	RADIO	8/27/2019	ON	5/8x3/4	09-05960-19913741
1	RADIO	9/24/2019	ON	5/8x3/4	04-02030-19913742
1	RADIO	9/26/2019	ON	5/8x3/4	07-20005-19913743
1	RADIO	9/24/2019	ON	5/8x3/4	08-14660-19913747
1	RADIO	8/1/2019	ON	5/8x3/4	09-01943-19913749
1	RADIO	8/2/2019	ON	5/8x3/4	02-04602-19913750

1	RADIO	7/29/2019	ON	5/8x3/4	05-09700-19913751
1	RADIO	7/18/2019	ON	5/8x3/4	07-18507-19913752
1	RADIO	10/7/2019	ON	5/8x3/4	05-08200-19913754
1	RADIO	9/13/2019	ON	5/8x3/4	01-06289-19913755
1	RADIO	10/11/2019	ON	5/8x3/4	05-12003-19913757
1	RADIO	11/18/2019	ON	5/8x3/4	10-07459-19913761
1	RADIO	8/19/2019	ON	5/8x3/4	04-00870-19913762
1	RADIO	9/3/2019	ON	5/8x3/4	05-10301-19913765
1	RADIO	9/23/2019	ON	5/8x3/4	11-10645-19913767
1	RADIO	9/26/2019	ON	5/8x3/4	11-01080-19913768
1	RADIO	10/18/2019	ON	5/8x3/4	09-05782-19913769
1	RADIO	11/8/2019	ON	5/8x3/4	01-13350-19913770
1	RADIO	10/28/2019	ON	5/8x3/4	12-00107-19913771
1	RADIO	7/29/2019	ON	5/8x3/4	08-09000-19913772
1	RADIO	12/3/2019	ON	5/8x3/4	06-12401-19944752
1	RADIO	12/9/2019	ON	5/8x3/4	10-01650-19944754
1	RADIO	12/3/2019	ON	5/8x3/4	13-05975-19944755
1	RADIO	12/19/2019	ON	5/8x3/4	07-07203-19944756
1	RADIO	12/3/2019	ON	5/8x3/4	01-08800-19944758
1	RADIO	12/6/2019	ON	5/8x3/4	04-02075-19944760
1	RADIO	12/3/2019	ON	5/8x3/4	10-03195-19944762
1	RADIO	1/7/2020	ON	5/8x3/4	11-21598-19944764
1	RADIO	4/6/2020	ON	5/8x3/4	11-10649-19944765
1	RADIO	4/6/2020	ON	5/8x3/4	11-10655-19944767
1	RADIO	4/6/2020	ON	5/8x3/4	11-10648-19944769
1	RADIO	12/29/2020	ON	5/8x3/4	09-00120-19944770
1	RADIO	1/29/2021	ON	5/8x3/4	11-13820-19944771
1	RADIO	1/5/2021	ON	5/8x3/4	09-01403-19944772
1	RADIO	12/29/2020	ON	5/8x3/4	09-01600-19944774
1	RADIO	2/24/2020	ON	5/8x3/4	13-04402-19944776
1	RADIO	2/24/2020	ON	5/8x3/4	13-05012-19944778
1	RADIO	2/24/2020	ON	5/8x3/4	13-04710-19944779
1	RADIO	2/24/2020	ON	5/8x3/4	03-13833-19944780
1	RADIO	2/24/2020	ON	5/8x3/4	11-10646-19944781
1	RADIO	2/25/2021	ON	5/8x3/4	11-09000-19944783
1	RADIO	1/20/2021	ON	5/8x3/4	09-02000-19944784
1	RADIO	11/13/2020	ON	5/8x3/4	07-20078-20137470
1	RADIO	11/10/2020	ON	5/8x3/4	07-06423-20137471
1	RADIO	1/4/2024	ON	5/8x3/4	09-02812-20137472
1	RADIO	11/20/2020	ON	5/8x3/4	09-09200-20137473
1	RADIO	12/9/2020	ON	5/8x3/4	05-03148-20137474
1	RADIO	1/12/2021	ON	5/8x3/4	04-02010-20137475
1	RADIO	11/24/2020	ON	5/8x3/4	11-22720-20137477
1	RADIO	8/13/2021	ON	5/8x3/4	07-13100-20137480
1	RADIO	8/10/2021	ON	5/8x3/4	07-04153-20137481
1	RADIO	8/27/2021	ON	5/8x3/4	07-11700-20137482
1	RADIO	7/28/2021	ON	5/8x3/4	11-09024-20137483

1	RADIO	8/6/2021	ON	5/8x3/4	05-04402-20137484
1	RADIO	6/30/2021	ON	5/8x3/4	11-05500-20137485
1	RADIO	9/22/2020	ON	5/8x3/4	11-07600-20137486
1	RADIO	9/22/2020	ON	5/8x3/4	11-10534-20137487
1	RADIO	9/23/2020	ON	5/8x3/4	11-23150-20137488
1	RADIO	9/22/2020	ON	5/8x3/4	11-23100-20137489
1	RADIO	9/25/2020	ON	5/8x3/4	10-03611-20137490
1	RADIO	9/23/2020	ON	5/8x3/4	10-06425-20137491
1	RADIO	9/10/2020	ON	5/8x3/4	07-08350-20137492
1	RADIO	3/25/2022	ON	5/8x3/4	09-05793-20137493
1	RADIO	12/8/2020	ON	5/8x3/4	10-07453-20137496
1	RADIO	9/23/2020	ON	5/8x3/4	11-23140-20137497
1	RADIO	11/19/2020	ON	5/8x3/4	10-07452-20137498
1	RADIO	11/10/2020	ON	5/8x3/4	02-05000-20137499
1	RADIO	12/3/2020	ON	5/8x3/4	10-00900-20137501
1	RADIO	11/12/2020	ON	5/8x3/4	08-09900-20137502
1	RADIO	11/13/2020	ON	5/8x3/4	03-13834-20137503
1	RADIO	1/4/2021	ON	5/8x3/4	14-03803-20138240
1	RADIO	11/20/2020	ON	5/8x3/4	09-06700-20138241
1	RADIO	12/29/2020	ON	5/8x3/4	11-21450-20138242
1	RADIO	11/24/2020	ON	5/8x3/4	09-01800-20138243
1	RADIO	11/20/2020	ON	5/8x3/4	14-02604-20138244
1	RADIO	11/25/2020	ON	5/8x3/4	09-08102-20138245
1	RADIO	2/8/2021	ON	5/8x3/4	07-20065-20138249
1	RADIO	2/11/2021	ON	5/8x3/4	03-05500-20138250
1	RADIO	3/16/2021	ON	5/8x3/4	13-06802-20138251
1	RADIO	11/12/2020	ON	5/8x3/4	10-07458-20138253
1	RADIO	8/25/2020	ON	5/8x3/4	14-03290-20138254
1	RADIO	7/24/2020	ON	5/8x3/4	06-04003-20138255
1	RADIO	8/6/2020	ON	5/8x3/4	02-07120-20138256
1	RADIO	9/8/2021	ON	5/8x3/4	03-08100-20138258
1	RADIO	7/28/2021	ON	5/8x3/4	12-14820-20138259
1	RADIO	2/9/2021	ON	5/8x3/4	07-11101-20138260
1	RADIO	2/26/2021	ON	5/8x3/4	11-08300-20138262
1	RADIO	5/22/2020	ON	5/8x3/4	08-07604-20138264
1	RADIO	5/22/2020	ON	5/8x3/4	09-02200-20138265
1	RADIO	5/22/2020	ON	5/8x3/4	08-04636-20138266
1	RADIO	5/22/2020	ON	5/8x3/4	08-07513-20138267
1	RADIO	6/8/2020	ON	5/8x3/4	03-09600-20138268
1	RADIO	5/22/2020	ON	5/8x3/4	08-06001-20138269
1	RADIO	1/29/2021	ON	5/8x3/4	10-03481-20138270
1	RADIO	1/28/2021	ON	5/8x3/4	11-13441-20138272
1	RADIO	2/5/2021	ON	5/8x3/4	10-07458-20138275
1	RADIO	9/13/2021	ON	5/8x3/4	06-03000-20378314
1	RADIO	4/29/2021	ON	5/8x3/4	09-04910-20378315
1	RADIO	4/29/2021	ON	5/8x3/4	10-01201-20378316
1	RADIO	6/14/2021	ON	5/8x3/4	07-06640-20378317

1	RADIO	4/26/2021	ON	5/8x3/4	09-05692-20378318
1	RADIO	3/23/2021	ON	5/8x3/4	10-07453-20378320
1	RADIO	3/22/2021	ON	5/8x3/4	10-07461-20378321
1	RADIO	3/23/2021	ON	5/8x3/4	10-07060-20378322
1	RADIO	3/18/2021	ON	5/8x3/4	10-07479-20378323
1	RADIO	3/22/2021	ON	5/8x3/4	10-07461-20378324
1	RADIO	6/28/2021	ON	5/8x3/4	08-14680-20378325
1	RADIO	3/31/2021	ON	5/8x3/4	11-10030-20378326
1	RADIO	3/23/2021	ON	5/8x3/4	09-03100-20378327
1	RADIO	3/23/2021	ON	5/8x3/4	11-02470-20378328
1	RADIO	3/23/2021	ON	5/8x3/4	10-07500-20378329
1	RADIO	3/23/2021	ON	5/8x3/4	10-03141-20378330
1	RADIO	4/26/2021	ON	5/8x3/4	13-06310-20378331
1	RADIO	3/8/2021	ON	5/8x3/4	08-05008-20378332
1	RADIO	3/18/2021	ON	5/8x3/4	10-07479-20378333
1	RADIO	3/31/2021	ON	5/8x3/4	11-09700-20378335
1	RADIO	2/26/2021	ON	5/8x3/4	06-11602-20378336
1	RADIO	3/4/2021	ON	5/8x3/4	02-00850-20378337
1	RADIO	3/2/2021	ON	5/8x3/4	02-01700-20378338
1	RADIO	2/19/2021	ON	5/8x3/4	11-21350-20378339
1	RADIO	2/25/2021	ON	5/8x3/4	11-09870-20378341
1	RADIO	2/26/2021	ON	5/8x3/4	09-00600-20378342
1	RADIO	4/29/2021	ON	5/8x3/4	08-10000-20378344
1	RADIO	3/30/2021	ON	5/8x3/4	13-01623-20378345
1	RADIO	5/5/2021	ON	5/8x3/4	04-00295-20378346
1	RADIO	3/29/2021	ON	5/8x3/4	11-11160-20378347
1	RADIO	3/24/2021	ON	5/8x3/4	13-02051-20378348
1	RADIO	3/31/2021	ON	5/8x3/4	12-03205-20378349
1	RADIO	12/29/2021	ON	5/8x3/4	11-09970-21214525
1			ON	5/8x3/4	11-10700-22570118
1	RADIO	2/24/2022	ON	5/8x3/4	06-02400-22646977
1	RADIO	3/23/2022	ON	5/8x3/4	06-02800-22646978
1	RADIO	3/23/2022	ON	5/8x3/4	06-02300-22646979
1	RADIO	3/23/2022	ON	5/8x3/4	06-00500-22646980
1	RADIO	2/24/2022	ON	5/8x3/4	06-02200-22646981
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1	RADIO	2/25/2022	ON	5/8x3/4	06-00200-22646983
1	RADIO	3/31/2022	ON	5/8x3/4	06-01902-22646984
1	RADIO	9/14/2020	ON	5/8x3/4	12-07700-22646985
1	RADIO	9/14/2020	ON	5/8x3/4	12-07700-22646986
1	RADIO	10/16/2020	ON	5/8x3/4	12-07751-22646987
1	RADIO	10/19/2020	ON	5/8x3/4	12-07752-22646988
1	RADIO	10/19/2020	ON	5/8x3/4	12-07756-22646989
1	RADIO	10/19/2020	ON	5/8x3/4	12-07758-22646990
1	RADIO	8/27/2021	ON	5/8x3/4	12-07700-22646992
1	RADIO	10/19/2020	ON	5/8x3/4	12-07753-22646993
1	RADIO	10/16/2020	ON	5/8x3/4	12-07754-22646994

1	RADIO	10/19/2020	ON	5/8x3/4	12-07757-22646995
1	RADIO	10/19/2020	ON	5/8x3/4	12-07755-22646996
1	RADIO	8/8/2022	ON	5/8x3/4	02-01325-23248840
1	RADIO	6/26/2023	ON	5/8x3/4	01-09100-25230342
1	RADIO	6/26/2023	ON	5/8x3/4	11-04306-25230343
1	RADIO	6/26/2023	ON	5/8x3/4	01-11103-25230344
1	RADIO	5/25/2023	ON	5/8x3/4	14-03100-25230345
1	RADIO	5/24/2023	ON	5/8x3/4	06-13000-25230346
1	RADIO	5/25/2023	ON	5/8x3/4	06-09000-25230348
1	RADIO	5/25/2023	ON	5/8x3/4	14-08115-25230349
1	RADIO	6/9/2023	ON	5/8x3/4	08-08100-25230350
1	RADIO	5/26/2023	ON	5/8x3/4	11-07210-25230351
1	RADIO	5/4/2023	ON	5/8x3/4	10-07477-25230382
1	RADIO	4/25/2023	ON	5/8x3/4	10-06447-25230383
1	RADIO	4/25/2023	ON	5/8x3/4	10-06300-25230385
1	RADIO	6/2/2023	ON	5/8x3/4	02-07295-25230386
1	RADIO	3/28/2023	ON	5/8x3/4	10-03771-25230387
1	RADIO	3/31/2023	ON	5/8x3/4	11-22820-25230388
1	MANUAL	5/4/2023	ON	5/8x3/4	10-07477-25230389
1	RADIO	3/31/2023	ON	5/8x3/4	10-03707-25230390
1	RADIO	4/26/2023	ON	5/8x3/4	06-10600-25230391
1	RADIO	4/11/2023	ON	5/8x3/4	10-07438-25242927
1	RADIO	3/24/2023	ON	5/8x3/4	02-04414-25242928
1	RADIO	8/29/2023	ON	5/8x3/4	14-02951-25242930
1	RADIO	4/11/2023	ON	5/8x3/4	10-07438-25242932
1	RADIO	8/29/2023	ON	5/8x3/4	11-02800-25242934
1	RADIO	3/31/2023	ON	5/8x3/4	06-01101-25242936
1	RADIO	5/25/2023	ON	5/8x3/4	02-01200-25242937
1	RADIO	4/27/2023	ON	5/8x3/4	09-09350-25242938
1	RADIO	4/26/2023	ON	5/8x3/4	09-00150-25242939
1	RADIO	4/27/2023	ON	5/8x3/4	09-06200-25242941
1	RADIO	5/1/2023	ON	5/8x3/4	03-04300-25242942
1	RADIO	4/27/2023	ON	5/8x3/4	11-20901-25242943
1	RADIO	5/1/2023	ON	5/8x3/4	10-07470-25242944
1	RADIO	5/23/2023	ON	5/8x3/4	08-04300-25242945
1	RADIO	5/1/2023	ON	5/8x3/4	05-03102-25242946
1	RADIO	1/24/2024	ON	5/8x3/4	01-13500-25242967
1	RADIO	1/29/2024	ON	5/8x3/4	10-04902-25242968
1	RADIO	1/10/2024	ON	5/8x3/4	07-09202-25242969
1	RADIO	1/18/2024	ON	5/8x3/4	09-08500-25242970
1	RADIO	1/24/2024	ON	5/8x3/4	01-08303-25242972
1	RADIO	10/2/2023	ON	5/8x3/4	11-09925-25242973
1	MANUAL	1/24/2024	ON	5/8x3/4	01-15600-25242974
1	RADIO	1/19/2024	ON	5/8x3/4	04-00080-25242976
1	RADIO	9/26/2023	ON	5/8x3/4	04-00900-25242988
1	RADIO	9/26/2023	ON	5/8x3/4	13-00100-25242989
1	MANUAL	10/10/2023	ON	5/8x3/4	10-07430-25242991

1	RADIO	9/27/2023	ON	5/8x3/4	05-03360-25242992
1	RADIO	9/27/2023	ON	5/8x3/4	10-07411-25242993
1	RADIO	6/2/2023	ON	5/8x3/4	02-07300-25242996
1	RADIO	2/28/2023	ON	5/8x3/4	13-06210-25248630
1	RADIO	2/28/2023	ON	5/8x3/4	12-14885-25248631
1	RADIO	6/2/2023	ON	5/8x3/4	11-22000-25248632
1	RADIO	5/25/2023	ON	5/8x3/4	10-03670-25248633
1	RADIO	3/10/2023	ON	5/8x3/4	02-02900-25248634
1	RADIO	2/28/2023	ON	5/8x3/4	10-03392-25248635
1	RADIO	5/23/2023	ON	5/8x3/4	03-10401-25248636
1	RADIO	2/28/2023	ON	5/8x3/4	02-11550-25248637
1	RADIO	10/25/2022	ON	5/8x3/4	04-00340-25248640
1	RADIO	12/5/2022	ON	5/8x3/4	10-07442-25248641
1	RADIO	9/23/2022	ON	5/8x3/4	09-08000-25248643
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1	RADIO	9/13/2022	ON	5/8x3/4	02-01000-25248646
1	RADIO	7/10/2023	ON	5/8x3/4	11-09860-25248647
1	RADIO	10/24/2022	ON	5/8x3/4	11-13433-25248648
1	RADIO	12/19/2022	ON	5/8x3/4	04-02240-25248649
1	RADIO	10/19/2022	ON	5/8x3/4	10-07462-25248650
1	RADIO	9/19/2022	ON	5/8x3/4	01-06240-25248651
1	RADIO	10/19/2022	ON	5/8x3/4	10-07462-25248652
1	RADIO	10/27/2022	ON	5/8x3/4	10-06210-25248657
1	RADIO	11/2/2022	ON	5/8x3/4	10-07441-25248658
1	RADIO	9/19/2022	ON	5/8x3/4	12-06020-25248659
1	RADIO	12/19/2022	ON	5/8x3/4	10-07432-25248660
1	RADIO	12/5/2022	ON	5/8x3/4	10-07442-25248662
1	RADIO	11/3/2022	ON	5/8x3/4	10-07441-25248663
1	RADIO	10/17/2022	ON	5/8x3/4	10-07431-25248664
1	RADIO	1/24/2023	ON	5/8x3/4	12-03905-25248665
1	RADIO	7/27/2023	ON	5/8x3/4	10-07439-25248666
1	RADIO	12/19/2022	ON	5/8x3/4	10-07432-25248667
1	RADIO	6/28/2023	ON	5/8x3/4	09-00095-25248671
1	RADIO	7/19/2023	ON	5/8x3/4	08-02510-25248672
1	RADIO	8/3/2023	ON	5/8x3/4	10-05702-25248673
1	RADIO	6/13/2023	ON	5/8x3/4	13-04301-25248674
1	MANUAL	3/1/2023	ON	5/8x3/4	09-08650-25248677
1	RADIO	6/28/2023	ON	5/8x3/4	11-23190-25248678
1	RADIO	6/21/2023	ON	5/8x3/4	09-09226-25248679
1	RADIO	9/13/2022	ON	5/8x3/4	03-08200-25248680
1	RADIO	9/19/2022	ON	5/8x3/4	07-20077-25248681
1	RADIO	9/19/2022	ON	5/8x3/4	08-05301-25248682
1	RADIO	9/13/2022	ON	5/8x3/4	06-13100-25248683
1	RADIO	10/24/2022	ON	5/8x3/4	09-06040-25248684
1	RADIO	9/1/2022	ON	5/8x3/4	01-10100-25248685
1	RADIO	10/11/2022	ON	5/8x3/4	03-11104-25248686
1	RADIO	9/1/2022	ON	5/8x3/4	01-06461-25248687

1	RADIO	9/7/2022	ON	5/8x3/4	05-03147-25248688
1	RADIO	9/13/2022	ON	5/8x3/4	06-10906-25248689
1	RADIO	9/7/2022	ON	5/8x3/4	08-07100-25248700
1	RADIO	8/30/2022	ON	5/8x3/4	06-01721-25248701
1	RADIO	8/30/2022	ON	5/8x3/4	06-00741-25248702
1	RADIO	8/31/2022	ON	5/8x3/4	06-01710-25248703
1	RADIO	8/30/2022	ON	5/8x3/4	06-00850-25248704
1	RADIO	8/31/2022	ON	5/8x3/4	06-01600-25248705
1	RADIO	8/31/2022	ON	5/8x3/4	06-01002-25248706
1	RADIO	8/31/2022	ON	5/8x3/4	06-01595-25248707
1	RADIO	8/30/2022	ON	5/8x3/4	06-01615-25248708
1	RADIO	8/31/2022	ON	5/8x3/4	06-01610-25248709
1	RADIO	8/19/2022	ON	5/8x3/4	10-03709-25248710
1	RADIO	8/23/2022	ON	5/8x3/4	08-05501-25248711
1	RADIO	8/25/2022	ON	5/8x3/4	11-07400-25248712
1	RADIO	8/24/2022	ON	5/8x3/4	07-20024-25248713
1	RADIO	8/24/2022	ON	5/8x3/4	07-20074-25248714
1	RADIO	8/25/2022	ON	5/8x3/4	11-13900-25248715
1	RADIO	8/24/2022	ON	5/8x3/4	11-21699-25248716
1	RADIO	8/24/2022	ON	5/8x3/4	06-03602-25248717
1	RADIO	8/23/2022	ON	5/8x3/4	06-11200-25248718
1	RADIO	1/30/2023	ON	5/8x3/4	07-20069-25248720
1	RADIO	2/21/2023	ON	5/8x3/4	10-04400-25248722
1	RADIO	1/30/2023	ON	5/8x3/4	06-04301-25248723
1	RADIO	1/30/2023	ON	5/8x3/4	10-07200-25248726
1	RADIO	3/10/2023	ON	5/8x3/4	11-08710-25248727
1	RADIO	1/30/2023	ON	5/8x3/4	07-20104-25248728
1	RADIO	1/31/2023	ON	5/8x3/4	13-07080-25248729
1	RADIO	10/24/2022	ON	5/8x3/4	06-01222-25248730
1	RADIO	6/28/2023	ON	5/8x3/4	04-02195-25248732
1	RADIO	12/29/2022	ON	5/8x3/4	07-14505-25248733
1	RADIO	12/28/2022	ON	5/8x3/4	11-10643-25248734
1	RADIO	10/31/2022	ON	5/8x3/4	06-11704-25248735
1	RADIO	10/24/2022	ON	5/8x3/4	10-05200-25248736
1	RADIO	10/24/2022	ON	5/8x3/4	14-03430-25248737
1	RADIO	10/24/2022	ON	5/8x3/4	11-10650-25248738
1	RADIO	10/24/2022	ON	5/8x3/4	11-21100-25248739
1	RADIO	2/1/2023	ON	5/8x3/4	10-06490-25248740
1	RADIO	8/23/2022	ON	5/8x3/4	12-11512-25248742
1	RADIO	10/24/2022	ON	5/8x3/4	12-05000-25248743
1	MANUAL	1/30/2023	ON	5/8x3/4	10-07472-25248744
1	RADIO	12/16/2022	ON	5/8x3/4	10-07443-25248745
1	RADIO	10/11/2022	ON	5/8x3/4	11-13600-25248746
1	RADIO	6/28/2023	ON	5/8x3/4	11-02450-25248747
1	RADIO	8/26/2022	ON	5/8x3/4	05-08040-25248748
1	RADIO	5/1/2023	ON	5/8x3/4	04-00190-25248750
1	RADIO	3/10/2023	ON	5/8x3/4	11-06605-25248751

1	RADIO	3/29/2023	ON	5/8x3/4	11-11156-25248752
1	RADIO	3/29/2023	ON	5/8x3/4	11-06900-25248753
1	RADIO	3/31/2023	ON	5/8x3/4	11-13911-25248754
1	MANUAL	2/23/2023	ON	5/8x3/4	13-00859-25248755
1	RADIO	3/31/2023	ON	5/8x3/4	06-01580-25248756
1	RADIO	3/29/2023	ON	5/8x3/4	07-04506-25248757
1	RADIO	4/18/2023	ON	5/8x3/4	07-20072-25248758
1	RADIO	8/1/2022	ON	5/8x3/4	01-10975-25248770
1	RADIO	7/28/2022	ON	5/8x3/4	06-11100-25248771
1	RADIO	7/25/2022	ON	5/8x3/4	10-01265-25248773
1	RADIO	7/25/2022	ON	5/8x3/4	06-07600-25248774
1	RADIO	8/4/2022	ON	5/8x3/4	10-07110-25248775
1	RADIO	8/4/2022	ON	5/8x3/4	06-01275-25248776
1	RADIO	8/10/2022	ON	5/8x3/4	06-01531-25248777
1	RADIO	8/16/2022	ON	5/8x3/4	13-08950-25248778
1	RADIO	5/30/2023	ON	5/8x3/4	11-07241-25248779
1	RADIO	1/26/2023	ON	5/8x3/4	02-07270-25248780
1	RADIO	1/31/2023	ON	5/8x3/4	09-03400-25248781
1	RADIO	1/30/2023	ON	5/8x3/4	01-12418-25248782
1	RADIO	1/27/2023	ON	5/8x3/4	08-12000-25248783
1	RADIO	1/30/2023	ON	5/8x3/4	10-05354-25248784
1	RADIO	1/27/2023	ON	5/8x3/4	01-09800-25248785
0.25	RADIO	1/27/2023	ON	5/8x3/4	08-11831-25248786
1	RADIO	1/30/2023	ON	5/8x3/4	07-20071-25248787
1	RADIO	1/26/2023	ON	5/8x3/4	11-10020-25248788
1	RADIO	1/27/2023	ON	5/8x3/4	09-02300-25248789
1	RADIO	10/26/2022	ON	5/8x3/4	12-07211-25248790
1	RADIO	10/25/2022	ON	5/8x3/4	02-02665-25248791
1	RADIO	10/25/2022	ON	5/8x3/4	14-07290-25248792
1	RADIO	10/25/2022	ON	5/8x3/4	09-09205-25248793
1	RADIO	10/25/2022	ON	5/8x3/4	11-22961-25248794
0.5	RADIO	10/24/2022	ON	5/8x3/4	07-07700-25248795
1	RADIO	10/24/2022	ON	5/8x3/4	06-11900-25248796
1	RADIO	10/25/2022	ON	5/8x3/4	01-08740-25248797
1	RADIO	10/25/2022	ON	5/8x3/4	11-00600-25248798
1	RADIO	10/27/2022	ON	5/8x3/4	11-10647-25248799
1	MANUAL	1/30/2023	ON	5/8x3/4	10-07463-25248800
1	RADIO	2/15/2023	ON	5/8x3/4	14-03190-25248801
1	MANUAL	6/22/2023	ON	5/8x3/4	11-22770-25248802
1	MANUAL	6/9/2023	ON	5/8x3/4	10-07410-25248803
1	RADIO	5/30/2023	ON	5/8x3/4	02-02195-25248804
1	MANUAL	6/9/2023	ON	5/8x3/4	10-07410-25248805
1	RADIO	2/20/2023	ON	5/8x3/4	01-15702-25248806
1	RADIO	4/11/2023	ON	5/8x3/4	10-07433-25248807
1	MANUAL	1/30/2023	ON	5/8x3/4	10-07463-25248808
1	MANUAL	2/2/2023	ON	5/8x3/4	10-07050-25248809
1	RADIO	7/24/2023	ON	5/8x3/4	07-15401-25248810

1	RADIO	7/25/2023	ON	5/8x3/4	10-03060-25248811
1	RADIO	7/25/2023	ON	5/8x3/4	05-04800-25248813
1	RADIO	7/25/2023	ON	5/8x3/4	08-14690-25248814
1	RADIO	8/4/2023	ON	5/8x3/4	02-12000-25248815
1	RADIO	7/24/2023	ON	5/8x3/4	07-20098-25248816
1	RADIO	7/25/2023	ON	5/8x3/4	06-07100-25248817
1	RADIO	9/12/2023	ON	5/8x3/4	10-07435-25248818
1	RADIO	9/6/2023	ON	5/8x3/4	10-07434-25248820
1	MANUAL	4/12/2023	ON	5/8x3/4	06-07303-25248821
1	RADIO	9/11/2023	ON	5/8x3/4	10-05340-25248822
1	RADIO	8/31/2023	ON	5/8x3/4	07-06421-25248823
1	RADIO	3/9/2023	ON	5/8x3/4	11-09501-25248824
1	RADIO	9/6/2023	ON	5/8x3/4	10-07434-25248825
1	RADIO	9/7/2023	ON	5/8x3/4	10-07149-25248826
1	RADIO	8/29/2023	ON	5/8x3/4	11-21430-25248827
1	RADIO	8/29/2023	ON	5/8x3/4	10-03070-25248828
1	RADIO	8/29/2023	ON	5/8x3/4	13-01400-25248829
1	RADIO	8/24/2022	ON	5/8x3/4	10-07143-25248843
1	RADIO	9/6/2022	ON	5/8x3/4	10-07143-25248844
1	RADIO	8/10/2022	ON	5/8x3/4	06-07482-25248845
1	RADIO	8/19/2022	ON	5/8x3/4	09-00180-25248846
1	RADIO	8/4/2022	ON	5/8x3/4	10-07211-25248847
1	RADIO	8/4/2022	ON	5/8x3/4	10-07211-25248848
1	RADIO	8/24/2022	ON	5/8x3/4	10-07110-25248849
1	RADIO	7/26/2022	ON	5/8x3/4	11-06300-25248850
1	RADIO	7/25/2022	ON	5/8x3/4	11-13411-25248851
1	RADIO	7/25/2022	ON	5/8x3/4	02-11704-25248852
1	RADIO	8/1/2022	ON	5/8x3/4	01-06901-25248853
1	RADIO	7/25/2022	ON	5/8x3/4	10-03681-25248854
1	RADIO	7/26/2022	ON	5/8x3/4	11-07100-25248855
1	RADIO	7/22/2022	ON	5/8x3/4	06-08300-25248856
1	RADIO	7/25/2022	ON	5/8x3/4	11-09825-25248858
1	MANUAL	8/8/2022	ON	5/8x3/4	05-02710-25248859
0.5	RADIO	3/6/2023	ON	5/8x3/4	12-00302-25249625
1	RADIO	6/5/2023	ON	5/8x3/4	02-02320-25249656
1	RADIO	4/25/2023	ON	5/8x3/4	11-09927-25249657
1	RADIO	4/25/2023	ON	5/8x3/4	11-09920-25249658
1	RADIO	4/25/2023	ON	5/8x3/4	11-06600-25249659
1	RADIO	4/11/2023	ON	5/8x3/4	10-07433-25249660
1	RADIO	4/25/2023	ON	5/8x3/4	11-07804-25249661
1	MANUAL	6/21/2023	ON	5/8x3/4	10-07465-25249662
10	RADIO	3/28/2023	ON	5/8x3/4	09-06140-25249663
1	RADIO	6/7/2023	ON	5/8x3/4	14-03220-25249665
1	RADIO	12/28/2022	ON	5/8x3/4	11-04700-25292391
1	RADIO	12/15/2022	ON	5/8x3/4	02-02800-25292392
1	RADIO	12/21/2022	ON	5/8x3/4	05-03310-25292393
1	RADIO	12/29/2022	ON	5/8x3/4	13-09021-25292394

1	RADIO	1/9/2023	ON	5/8x3/4	06-04101-25292396
1	RADIO	12/19/2022	ON	5/8x3/4	04-02230-25292397
1	RADIO	12/19/2022	ON	5/8x3/4	04-02235-25292398
1	RADIO	1/30/2023	ON	5/8x3/4	10-07439-25292399
1	RADIO	12/16/2022	ON	5/8x3/4	10-07443-25292400
1	RADIO	1/30/2023	ON	5/8x3/4	09-08803-25292401
1	RADIO	12/29/2022	ON	5/8x3/4	13-00600-25292402
1	RADIO	1/27/2023	ON	5/8x3/4	09-00500-25292403
1	RADIO	12/21/2022	ON	5/8x3/4	05-05240-25292405
1	RADIO	12/28/2022	ON	5/8x3/4	11-09935-25292406
1	RADIO	12/28/2022	ON	5/8x3/4	11-05701-25292407
1	RADIO	12/29/2022	ON	5/8x3/4	08-00701-25292409
1	RADIO	12/15/2022	ON	5/8x3/4	04-00140-25292410
1	RADIO	1/26/2023	ON	5/8x3/4	11-08800-25292411
1	RADIO	1/27/2023	ON	5/8x3/4	11-21670-25292414
1	RADIO	1/27/2023	ON	5/8x3/4	08-14630-25292415
1	RADIO	1/30/2023	ON	5/8x3/4	10-02225-25292417
1	RADIO	12/29/2022	ON	5/8x3/4	13-05175-25292418
1	RADIO	1/12/2023	ON	5/8x3/4	11-02701-25292419
1	RADIO	12/29/2022	ON	5/8x3/4	14-03480-25292420
1	MANUAL	1/29/2024	ON	5/8x3/4	12-14888-25353313
1	RADIO	1/29/2024	ON	5/8x3/4	10-07055-25353314
1	RADIO	1/25/2024	ON	5/8x3/4	07-10118-25353315
1	RADIO	1/25/2024	ON	5/8x3/4	11-01085-25353316
1	RADIO	1/25/2024	ON	5/8x3/4	07-08800-25353317
1	RADIO	2/2/2024	ON	5/8x3/4	02-02700-25353318
1	RADIO	1/17/2024	ON	5/8x3/4	08-01103-25353319
1	RADIO	1/24/2024	ON	5/8x3/4	02-11401-25353320
1	RADIO	1/25/2024	ON	5/8x3/4	03-10700-25353321
1	RADIO	12/21/2023	ON	5/8x3/4	08-00105-25353325
1	MANUAL	11/28/2023	ON	5/8x3/4	06-14000-25353327
1	RADIO	11/30/2023	ON	5/8x3/4	10-03430-25353328
1	RADIO	12/21/2023	ON	5/8x3/4	01-09900-25353329
1	RADIO	11/28/2023	ON	5/8x3/4	09-01807-25353330
1	RADIO	11/30/2023	ON	5/8x3/4	13-01700-25353331
1	RADIO	11/29/2023	ON	5/8x3/4	02-04300-25353332
1	RADIO	9/9/2023	ON	5/8x3/4	06-09500-25353341
1	RADIO	11/6/2023	ON	5/8x3/4	14-03520-25353355
1	RADIO	11/1/2023	ON	5/8x3/4	14-03510-25353358
1	RADIO	9/27/2023	ON	5/8x3/4	10-07411-25353364
1	RADIO	9/8/2023	ON	5/8x3/4	06-12700-25353365
1	RADIO	10/27/2023	ON	5/8x3/4	10-07435-25353366
1	MANUAL	9/8/2023	ON	5/8x3/4	03-05000-25353367
1	RADIO	9/27/2023	ON	5/8x3/4	11-09985-25353368
1	RADIO	8/31/2023	ON	5/8x3/4	11-09875-25353369
1	RADIO	8/31/2023	ON	5/8x3/4	10-06325-25353370
1	RADIO	11/15/2023	ON	5/8x3/4	14-08300-25353378

1	RADIO	1/4/2024	ON	5/8x3/4	02-07320-25353379
1	RADIO	11/3/2023	ON	5/8x3/4	11-02000-25353386
1	RADIO	10/25/2023	ON	5/8x3/4	12-14886-25353393
1	RADIO	10/25/2023	ON	5/8x3/4	08-05405-25353394
1	RADIO	11/3/2023	ON	5/8x3/4	10-07456-25353395
1	RADIO	10/26/2023	ON	5/8x3/4	06-01516-25353396
1	RADIO	10/26/2023	ON	5/8x3/4	11-13700-25353397
1	RADIO	10/25/2023	ON	5/8x3/4	10-03651-25353398
1	RADIO	10/25/2023	ON	5/8x3/4	09-02410-25353400
1	RADIO	10/26/2023	ON	5/8x3/4	10-07049-25353401
1	RADIO	10/25/2023	ON	5/8x3/4	10-04600-25353402
1	RADIO	7/6/2023	ON	5/8x3/4	01-13103-25353408
1	RADIO	10/2/2023	ON	5/8x3/4	14-07355-25353409
1	RADIO	8/18/2023	ON	5/8x3/4	09-05720-25353410
1	RADIO	8/7/2023	ON	5/8x3/4	06-10501-25353411
1	RADIO	8/11/2023	ON	5/8x3/4	02-05701-25353413
1	RADIO	8/11/2023	ON	5/8x3/4	01-11202-25353414
0.5	RADIO	8/11/2023	ON	5/8x3/4	08-04001-25353415
1	RADIO	8/24/2023	ON	5/8x3/4	08-02500-25353416
1	RADIO	8/11/2023	ON	5/8x3/4	02-01125-25353418
1	RADIO	8/11/2023	ON	5/8x3/4	07-20105-25353419
1	RADIO	8/22/2023	ON	5/8x3/4	05-10261-25353420
1	RADIO	9/28/2023	ON	5/8x3/4	11-12000-25353421
1	RADIO	7/24/2023	ON	5/8x3/4	09-00200-25353422
1	RADIO	7/10/2023	ON	5/8x3/4	02-11300-25353423
1	RADIO	7/27/2023	ON	5/8x3/4	10-07660-25353424
1	RADIO	7/10/2023	ON	5/8x3/4	08-04615-25353425
1	RADIO	6/27/2023	ON	5/8x3/4	10-07205-25353427
1	RADIO	11/28/2023	ON	5/8x3/4	10-03580-25353433
1	RADIO	10/10/2023	ON	5/8x3/4	10-07430-25353436
1	RADIO	10/6/2023	ON	5/8x3/4	02-09202-25353437
1	RADIO	11/28/2023	ON	5/8x3/4	11-23080-25353438
1	RADIO	10/23/2023	ON	5/8x3/4	10-07409-25353440
1	RADIO	10/23/2023	ON	5/8x3/4	10-07409-25353441
1	RADIO	10/6/2023	ON	5/8x3/4	10-07552-25353442
1	RADIO	10/24/2023	ON	5/8x3/4	01-13002-25353453
1	RADIO	9/28/2023	ON	5/8x3/4	11-01780-25353454
1	RADIO	9/28/2023	ON	5/8x3/4	10-07400-25353455
1	RADIO	10/24/2023	ON	5/8x3/4	13-06220-25353456
1	RADIO	9/29/2023	ON	5/8x3/4	13-06235-25353458
1	RADIO	10/4/2023	ON	5/8x3/4	11-11111-25353459
1	RADIO	9/28/2023	ON	5/8x3/4	09-03307-25353460
1	RADIO	10/18/2023	ON	5/8x3/4	09-05990-25353461
1	RADIO	9/28/2023	ON	5/8x3/4	06-13300-25353462
1	RADIO	4/14/2023	ON	5/8x3/4	13-07500-26665206
1	RADIO	4/26/2023	ON	5/8x3/4	05-03210-26672466
1		3/14/2002	ON	5/8x3/4	13-05015-45664169

1		2/16/2001	ON	5/8x3/4	08-13001-45667111
1	MANUAL	2/9/2006	ON	5/8x3/4	07-10010-45667112
1		4/29/1999	ON	5/8x3/4	09-09225-45667113
1			ON	5/8x3/4	13-07195-45667117
1		6/30/2000	ON	5/8x3/4	07-14109-45667131
1		5/5/1999	ON	5/8x3/4	08-12525-45667134
1		4/21/1999	ON	5/8x3/4	08-13350-45667135
1		7/30/1999	ON	5/8x3/4	07-05020-45667138
1		9/18/2003	ON	5/8x3/4	04-01015-45667139
1		9/8/1999	ON	5/8x3/4	11-23155-45667140
1		8/23/1999	ON	5/8x3/4	10-05355-45667146
1		11/9/2000	ON	5/8x3/4	09-09345-48084345
1	3/	7/12/2000	ON	5/8x3/4	10-03685-48084348
1		12/5/2000	ON	5/8x3/4	09-07300-48147832
1		2/16/2007	ON	5/8x3/4	14-01560-49889623
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1	9/24/2001	ON	5/8x3/4	05-02303-75523884
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1		ON	5/8x3/4	02-02100-76222824
1		ON	5/8x3/4	09-06600-76222828
1	10/22/2002	ON	5/8x3/4	03-03200-76222829
1	6/7/2002	ON	5/8x3/4	04-00365-76222841
1	4/2/2003	OFF	5/8x3/4	07-15507-76634282
1	11/27/2002	ON	5/8x3/4	10-07040-76634287
1	11/20/2002	ON	5/8x3/4	05-05600-76634299
1	10/17/2002	ON	5/8x3/4	13-05016-76634492
1	4/15/2003	ON	5/8x3/4	01-06470-76634493
1	3/18/2005	ON	5/8x3/4	06-01298-080184730
1	4/20/2005	ON	5/8x3/4	06-01517-80184732
1	3/2/2005	ON	5/8x3/4	11-22791-80184737
1	1/28/2005	ON	5/8x3/4	10-05358-80184740
1	11/29/2005	ON	5/8x3/4	12-07206-80184742
1	12/31/2004	ON	5/8x3/4	13-05171-80184748
1	10/8/2010	ON	5/8x3/4	07-06424-80503388
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1	2/15/2006	ON	5/8x3/4	13-05178-80503391
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1	10/8/2010	ON	5/8x3/4	07-06422-80745057
1	5/25/2005	ON	5/8x3/4	10-07550-80745058
1	9/16/2005	ON	5/8x3/4	06-01521-80745061
1	3/14/2006	ON	5/8x3/4	05-03240-81465770
1	2/23/2006	ON	5/8x3/4	12-10176-81465775
1	7/12/2007	ON	5/8x3/4	02-01900-81465785
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1	4/26/2006	ON	5/8x3/4	12-14884-81465793
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1	5/16/2006	ON	5/8x3/4	07-10600-82026348

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1		8/17/2006	ON	5/8x3/4	07-10117-82026359
1		5/17/2006	ON	5/8x3/4	02-09605-82026365
1		8/16/2006	ON	5/8x3/4	03-00400-82026366
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1		8/14/2006	ON	5/8x3/4	04-00755-82026370
1		8/15/2006	ON	5/8x3/4	05-08180-82026372
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1		2/23/2000	ON	5/8x3/4	12-02800-99503966
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1		2/9/2000	ON	5/8x3/4	04-00300-99524392
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1	RADIO	4/27/2021	ON	5/8x3/4	10-07693-212047349
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1	RADIO	6/8/2021	ON	5/8x3/4	06-01240-212047357
1	RADIO	4/26/2021	ON	5/8x3/4	10-02220-212047358
1	RADIO	4/22/2021	ON	5/8x3/4	10-07440-212047359
1	RADIO	4/26/2021	ON	5/8x3/4	10-02221-212047361
1	RADIO	5/7/2021	ON	5/8x3/4	09-08700-212047363
1	RADIO	9/22/2021	ON	5/8x3/4	09-01820-212047365

1	RADIO	9/22/2021	ON	5/8x3/4	07-20002-212047367
1	RADIO	6/24/2021	ON	5/8x3/4	11-09979-212047370
1	RADIO	6/8/2021	ON	5/8x3/4	06-01271-212047372
1	RADIO	5/6/2021	ON	5/8x3/4	02-09403-212047374
1	RADIO	6/14/2021	ON	5/8x3/4	07-06644-212047375
1	RADIO	6/4/2021	ON	5/8x3/4	01-10916-212047376
1	RADIO	5/26/2021	ON	5/8x3/4	10-07445-212047378
1	RADIO	5/19/2021	ON	5/8x3/4	02-07250-212047380
1	RADIO	9/10/2021	ON	5/8x3/4	04-00165-212047381
1	RADIO	6/11/2021	ON	5/8x3/4	12-04312-212124500
1	RADIO	6/22/2021	ON	5/8x3/4	11-21630-212124501
1	RADIO	9/8/2021	ON	5/8x3/4	10-07485-212124502
1	RADIO	9/10/2021	ON	5/8x3/4	02-06700-212124503
1	RADIO	11/17/2021	ON	5/8x3/4	10-07204-212124505
1	RADIO	10/29/2021	ON	5/8x3/4	10-07475-212124506
1	RADIO	11/17/2021	ON	5/8x3/4	08-08704-212124508
1	RADIO	11/4/2021	ON	5/8x3/4	04-01125-212124509
1	RADIO	11/18/2021	ON	5/8x3/4	10-07208-212124514
1	RADIO	11/9/2021	ON	5/8x3/4	03-11314-212124515
1	RADIO	6/22/2021	ON	5/8x3/4	11-22790-212124516
1	RADIO	8/6/2021	ON	5/8x3/4	06-01200-212124518
1	RADIO	8/6/2021	ON	5/8x3/4	05-03146-212124519
1	RADIO	6/8/2021	ON	5/8x3/4	06-13600-212124520
1	RADIO	6/23/2021	ON	5/8x3/4	10-06250-212124521
1	RADIO	12/29/2021	ON	5/8x3/4	11-21589-212124522
1	RADIO	12/29/2021	ON	5/8x3/4	11-06200-212124524
1	RADIO	12/29/2021	ON	5/8x3/4	11-05801-212124526
1	RADIO	12/29/2021	ON	5/8x3/4	11-09928-212124527
1	RADIO	10/18/2021	ON	5/8x3/4	12-06901-212124529
1	RADIO	10/27/2021	ON	5/8x3/4	09-07203-212124530
1	RADIO	10/27/2021	ON	5/8x3/4	10-03332-212124531
1	RADIO	10/14/2021	ON	5/8x3/4	02-06404-212124532
0.5	RADIO	10/13/2021	ON	5/8x3/4	08-15002-212124533
1	RADIO	7/22/2022	ON	5/8x3/4	12-11201-212302470
1	RADIO	6/23/2022	ON	5/8x3/4	10-03751-212302474
1	RADIO	6/9/2022	ON	5/8x3/4	08-05200-212302478
1	RADIO	6/23/2022	ON	5/8x3/4	01-09600-212302480
1	RADIO	5/26/2022	ON	5/8x3/4	06-10350-212302484
0.333	RADIO	1/25/2023	ON	5/8x3/4	14-03360-212302490
1	RADIO	7/25/2022	ON	5/8x3/4	04-00075-212302494
1	RADIO	1/31/2022	ON	5/8x3/4	10-03350-212304235
1	RADIO	2/11/2022	ON	5/8x3/4	06-10808-212304236
1	RADIO	1/24/2022	ON	5/8x3/4	10-07674-212304237
1	RADIO	1/24/2022	ON	5/8x3/4	11-09600-212304238
1	RADIO	11/7/2023	ON	5/8x3/4	02-00875-212304243
1	RADIO	12/23/2021	ON	5/8x3/4	07-15701-212304253
1	RADIO	12/9/2021	ON	5/8x3/4	08-15502-212304254

1	RADIO	12/23/2021	ON	5/8x3/4	07-15605-212304255
1	RADIO	2/25/2022	ON	5/8x3/4	14-01010-212304256
1	RADIO	2/23/2022	ON	5/8x3/4	11-10641-212304258
1	RADIO	1/21/2022	ON	5/8x3/4	11-11201-212304259
1	RADIO	1/21/2022	ON	5/8x3/4	08-10900-212304260
1	RADIO	2/14/2022	ON	5/8x3/4	05-03260-212304261
1	RADIO	2/22/2022	ON	5/8x3/4	02-01050-212304262
1	RADIO	1/27/2022	ON	5/8x3/4	08-01402-212304263
1	RADIO	12/20/2021	ON	5/8x3/4	08-05800-212304264
1	RADIO	12/29/2021	ON	5/8x3/4	03-09000-212304265
1	RADIO	2/22/2022	ON	5/8x3/4	13-09300-212304266
1	RADIO	12/8/2021	ON	5/8x3/4	06-01270-212304267
1	RADIO	2/14/2022	ON	5/8x3/4	02-00925-212304268
1	RADIO	2/18/2022	ON	5/8x3/4	14-04052-212304269
1	RADIO	5/3/2022	ON	5/8x3/4	11-09929-212304270
1	RADIO	5/24/2022	ON	5/8x3/4	07-09300-212304271
1	RADIO	4/12/2022	ON	5/8x3/4	02-04100-212304273
1	RADIO	4/12/2022	ON	5/8x3/4	02-05506-212304274
1	RADIO	4/28/2022	ON	5/8x3/4	11-09850-212304275
1	RADIO	4/8/2022	ON	5/8x3/4	11-09011-212304294
1	RADIO	3/4/2022	ON	5/8x3/4	07-06425-212304295
1	RADIO	3/8/2022	ON	5/8x3/4	09-09230-212304296
1	RADIO	3/4/2022	ON	5/8x3/4	07-19500-212304297
1	RADIO	3/11/2022	ON	5/8x3/4	01-17104-212304298
1	RADIO	3/22/2022	ON	5/8x3/4	05-01000-212304299
1	RADIO	4/29/2022	ON	5/8x3/4	09-09357-212304300
1	RADIO	4/22/2022	ON	5/8x3/4	11-13810-212304301
1	RADIO	3/31/2022	ON	5/8x3/4	10-07464-212304302
1	RADIO	4/11/2022	ON	5/8x3/4	04-00090-212304304
1	RADIO	3/22/2022	ON	5/8x3/4	02-00176-212304305
1	RADIO	3/18/2022	ON	5/8x3/4	14-04070-212304308
1	RADIO	3/18/2022	ON	5/8x3/4	07-13801-212304310
1	RADIO	3/17/2022	ON	5/8x3/4	02-01250-212304311
1	RADIO	11/30/2021	ON	5/8x3/4	05-10280-212304312
1	RADIO	11/17/2021	ON	5/8x3/4	05-03140-212304313
1	RADIO	11/17/2021	ON	5/8x3/4	10-04351-212304314
1	RADIO	11/29/2021	ON	5/8x3/4	11-00121-212304315
1	RADIO	11/17/2021	ON	5/8x3/4	07-10009-212304317
1	RADIO	3/4/2022	ON	5/8x3/4	07-06426-212304318
1	RADIO	2/22/2022	ON	5/8x3/4	03-10600-212304319
1	RADIO	3/16/2022	ON	5/8x3/4	01-12200-212304320
1	RADIO	2/22/2022	ON	5/8x3/4	05-09210-212304321
1	RADIO	3/25/2022	ON	5/8x3/4	10-02250-212304323
1	RADIO	8/27/2021	ON	5/8x3/4	11-04800-212304324
1	RADIO	8/27/2021	ON	5/8x3/4	11-22726-212304325
1	RADIO	9/7/2021	ON	5/8x3/4	10-07044-212304327
1	RADIO	9/10/2021	ON	5/8x3/4	04-02190-212304328

1	RADIO	10/29/2021	ON	5/8x3/4	12-11600-212304329
1	RADIO	11/2/2021	ON	5/8x3/4	10-07476-212304331
1	RADIO	9/22/2021	ON	5/8x3/4	09-07300-212304333
1	RADIO	9/14/2021	ON	5/8x3/4	10-07207-212304334
1	RADIO	9/14/2021	ON	5/8x3/4	10-06900-212304337
1	RADIO	9/9/2021	ON	5/8x3/4	04-00825-212304339
1	RADIO	1/4/2022	ON	5/8x3/4	03-08250-212304525
1	MANUAL	2/17/2023	ON	5/8x3/4	13-06802-212360433
1	RADIO	2/23/2023	ON	5/8x3/4	07-20064-252487252
1	RADIO	12/20/2023	ON	5/8x3/4	07-20079-253553324
1	RADIO	10/4/2023	ON	5/8x3/4	11-09112-255242990
1	RADIO	4/24/2007	ON	5/8x3/4	07-20104-677792451
1	RADIO	12/4/2017	ON	5/8x3/4	12-10402-687706682
1			ON	5/8x3/4	08-12723-@8317319
1		1/13/2000	ON	5/8x3/4	14-03470-@99503963
1			ON	5/8x3/4	10-03460-@G006294
1			ON	5/8x3/4	14-07020-@P513956
1			ON	5/8x3/4	09-09333-@T511520
1			ON	5/8x3/4	08-12900-@T523596
1		9/28/2007	ON	5/8x3/4	12-05103-1B825417
1			ON	5/8x3/4	14-08196-A007362
1			ON	5/8x3/4	13-05600-A0110458
1			ON	5/8x3/4	09-06250-A011395
1			ON	5/8x3/4	09-04003-A011412
1			ON	5/8x3/4	09-08201-A011426
1			ON	5/8x3/4	08-15200-A011427
1			ON	5/8x3/4	09-00170-A011428
1			ON	5/8x3/4	02-07130-A119041
1			ON	5/8x3/4	06-13900-A19017
1			ON	5/8x3/4	06-14300-A19064
1			ON	5/8x3/4	10-03230-B042005
1	R T		ON	5/8x3/4	10-03262-B042006
1			ON	5/8x3/4	01-06590-B042270
1			ON	5/8x3/4	01-06211-B042271
1			ON	5/8x3/4	01-06227-B042272
1			ON	5/8x3/4	12-06180-B069727
1	MANUAL	11/13/2003	ON	5/8x3/4	09-00105-B070463
1			ON	5/8x3/4	10-03150-B070491
1			ON	5/8x3/4	06-04018-B077745
1			ON	5/8x3/4	11-21708-B529024
1		1/31/2000	ON	5/8x3/4	04-00115-B624673
1			ON	5/8x3/4	05-12100-C016204
1			ON	5/8x3/4	02-06800-C016206
1	3/		ON	5/8x3/4	05-03200-C016256
1			ON	5/8x3/4	07-06756-E520034
1			ON	5/8x3/4	13-02000-E520049
1			ON	5/8x3/4	05-02504-E520055

1			ON	5/8x3/4	08-10409-E565235
1			ON	5/8x3/4	10-03312-E565368
1			ON	5/8x3/4	02-07110-E565437
1			ON	5/8x3/4	02-07290-E565468
1			ON	5/8x3/4	06-07407-E565490
1			ON	5/8x3/4	01-16400-E566234
1			ON	5/8x3/4	04-00170-E566242
1			ON	5/8x3/4	02-07100-E566248
1			ON	5/8x3/4	07-06681-E580702
1		11/20/2012	ON	5/8x3/4	07-06630-E580703
1			ON	5/8x3/4	02-04400-E610282
1			ON	5/8x3/4	06-08103-F007549
1			ON	5/8x3/4	14-04501-F023077
1			ON	5/8x3/4	07-06699-F808338
1			ON	5/8x3/4	11-10897-F808343
1			ON	5/8x3/4	10-03110-F808345
1	R T		ON	5/8x3/4	13-02360-F808371
1		11/30/2004	ON	5/8x3/4	01-18000-F808410
1	3/		ON	5/8x3/4	13-09500-F816893
1			ON	5/8x3/4	13-02321-F831965
1			ON	5/8x3/4	10-03511-F850195
1			ON	5/8x3/4	02-05614-F8700411
1		10/24/2013	ON	5/8x3/4	12-07903-F870333
1		12/7/2016	ON	5/8x3/4	05-03170-F870346
1			ON	5/8x3/4	05-05903-F870366
1			ON	5/8x3/4	08-11700-F870368
1			ON	5/8x3/4	08-00400-F870369
1			ON	5/8x3/4	13-07040-F870379
1			ON	5/8x3/4	02-07330-F870382
1			ON	5/8x3/4	05-03191-F870383
1			ON	5/8x3/4	02-05626-F870412
1			ON	5/8x3/4	02-07150-F870479
1			ON	5/8x3/4	02-07140-F870480
1			ON	5/8x3/4	02-07170-F870481
1			ON	5/8x3/4	02-02360-F870484
1			ON	5/8x3/4	09-09340-F870705
1			ON	5/8x3/4	03-10008-F897740
1		8/29/2011	ON	5/8x3/4	13-06908-F897745
1			ON	5/8x3/4	13-07090-F897747
1			ON	5/8x3/4	09-09210-F897748
1			ON	5/8x3/4	12-12005-F897751
1			ON	5/8x3/4	11-10480-F897758
1			ON	5/8x3/4	02-04701-F897759
1			ON	5/8x3/4	09-08591-F897762
1			ON	5/8x3/4	03-04000-F897763
1			ON	5/8x3/4	06-08703-F897786
1			ON	5/8x3/4	13-07010-F921831

1			ON	5/8x3/4	13-07175-F921832
1			ON	5/8x3/4	05-10700-F921857
1			ON	5/8x3/4	14-04400-F923104
1		5/3/1999	ON	5/8x3/4	03-08603-F923107
1			ON	5/8x3/4	13-07060-F923112
1			ON	5/8x3/4	05-00300-F925519
1			ON	5/8x3/4	05-08400-F925554
1			ON	5/8x3/4	06-02902-F925557
1			ON	5/8x3/4	06-03700-G006280
1			ON	5/8x3/4	09-00070-G006293
1			ON	5/8x3/4	13-07160-G006316
1			ON	5/8x3/4	05-10241-G018324
1			ON	5/8x3/4	10-04202-H031639
1			ON	5/8x3/4	13-09560-H031643
1			ON	5/8x3/4	07-04700-H046432
1			ON	5/8x3/4	07-18801-H046433
1			ON	5/8x3/4	08-12100-H046434
1			ON	5/8x3/4	10-04000-H046436
1			ON	5/8x3/4	05-03230-H046450
1			ON	5/8x3/4	13-01900-H046451
1			ON	5/8x3/4	09-04200-H046453
1			ON	5/8x3/4	09-03950-J093614
1			ON	5/8x3/4	14-02820-J103316
1			ON	5/8x3/4	07-06663-J103319
1			ON	5/8x3/4	07-18603-J103321
1			ON	5/8x3/4	07-15906-J103322
1			ON	5/8x3/4	08-11400-J103404
1			ON	5/8x3/4	11-10580-J103405
1			ON	5/8x3/4	09-00400-J103406
1			ON	5/8x3/4	09-09331-J118689
1			ON	5/8x3/4	10-03171-M010727
1			ON	5/8x3/4	02-04200-M010731
1		10/22/1997	ON	5/8x3/4	11-23060-M010795
1			ON	5/8x3/4	10-03755-M010797
1	R T		ON	5/8x3/4	01-16700-M010801
1			ON	5/8x3/4	07-10100-M010811
1			ON	5/8x3/4	05-02400-M010824
1			ON	5/8x3/4	06-12800-M010830
1			ON	5/8x3/4	02-02641-M010831
1			ON	5/8x3/4	05-10237-M010833
1			ON	5/8x3/4	13-09600-NO NUMBER
1			ON	5/8x3/4	06-08350-P502475
1			ON	5/8x3/4	07-11302-P502476
1			ON	5/8x3/4	14-04300-P502479
1			ON	5/8x3/4	03-04100-P502494
1			ON	5/8x3/4	05-05501-P502566
1			ON	5/8x3/4	03-05901-P502567

1			ON	5/8x3/4	13-01910-P502570
1			ON	5/8x3/4	12-05250-P502585
1			ON	5/8x3/4	12-05200-P502588
1			ON	5/8x3/4	04-00840-P513492
1			ON	5/8x3/4	04-00820-P513495
1			ON	5/8x3/4	04-00810-P513496
1			ON	5/8x3/4	04-00815-P513497
1			ON	5/8x3/4	04-00765-P513594
1			ON	5/8x3/4	04-00795-P513595
1			ON	5/8x3/4	04-00735-P513596
1			ON	5/8x3/4	04-00740-P513597
1			ON	5/8x3/4	04-00745-P513598
1			ON	5/8x3/4	13-07220-P513648
1		4/9/2010	ON	5/8x3/4	14-08810-P513651
1			ON	5/8x3/4	04-00800-P513661
1			ON	5/8x3/4	04-00830-P513664
1			ON	5/8x3/4	04-00875-P513665
1			ON	5/8x3/4	03-10300-P513786
1			ON	5/8x3/4	04-00935-P513792
1			ON	5/8x3/4	04-00920-P513793
1			ON	5/8x3/4	04-00930-P513794
1			ON	5/8x3/4	04-00950-P513796
1			ON	5/8x3/4	04-00955-P513797
1			ON	5/8x3/4	06-03400-P513821
1	MANUAL		ON	5/8x3/4	04-00975-P513828
1			ON	5/8x3/4	04-00985-P513829
1			ON	5/8x3/4	04-00940-P513830
1			ON	5/8x3/4	04-00980-P513831
1			ON	5/8x3/4	04-00945-P513832
1		3/10/1997	ON	5/8x3/4	04-00970-P513833
1			ON	5/8x3/4	04-00965-P513864
1			ON	5/8x3/4	04-00860-P513865
1			ON	5/8x3/4	04-00880-P513866
1			ON	5/8x3/4	04-00960-P513867
1			ON	5/8x3/4	04-00865-P513869
1			ON	5/8x3/4	04-00760-P513870
1			ON	5/8x3/4	04-00750-P513871
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1			ON	5/8x3/4	04-00915-P513890
1			ON	5/8x3/4	04-00775-P513891
1			ON	5/8x3/4	04-00790-P513892
1			ON	5/8x3/4	04-00780-P513893
1			ON	5/8x3/4	07-10550-P513955
1			ON	5/8x3/4	03-11300-P513959
1			ON	5/8x3/4	04-00890-P513961
1			ON	5/8x3/4	04-00885-P513962
1			ON	5/8x3/4	04-00905-P513963

1			ON	5/8x3/4	04-00725-P520464
1		5/1/2001	ON	5/8x3/4	04-01010-P921860
1			ON	5/8x3/4	06-01518-R201669
1			ON	5/8x3/4	07-06619-R201670
1		12/13/2011	ON	5/8x3/4	03-05601-R201671
1			ON	5/8x3/4	05-09400-R201673
1		9/29/1998	ON	5/8x3/4	12-10106-R201705
1			ON	5/8x3/4	01-06495-R201708
1			ON	5/8x3/4	06-07150-R201709
1			ON	5/8x3/4	08-13400-R201742
1	R T		ON	5/8x3/4	14-03420-R201751
1		1/19/2023	ON	5/8x3/4	14-02300-R201752
1			ON	5/8x3/4	11-13875-R207854
1		4/1/2003	ON	5/8x3/4	04-02115-R211842
1		4/1/2003	ON	5/8x3/4	04-02120-R211851
1			ON	5/8x3/4	14-01550-R212669
1			ON	5/8x3/4	02-07000-R212671
0.5			ON	5/8x3/4	14-04114-R212673
1			ON	5/8x3/4	04-00155-R217413
1			ON	5/8x3/4	13-08410-R217416
1			ON	5/8x3/4	07-15202-R217420
1			ON	5/8x3/4	06-01530-R217447
1			ON	5/8x3/4	13-08425-R217449
1			ON	5/8x3/4	11-13853-R217450
1			ON	5/8x3/4	11-23030-R217452
1			ON	5/8x3/4	08-01650-R225796
1			ON	5/8x3/4	11-13847-R225850
1			ON	5/8x3/4	06-07650-R225851
1			ON	5/8x3/4	07-15009-R225852
1			ON	5/8x3/4	14-04110-R225853
1			ON	5/8x3/4	11-10510-R225874
1			ON	5/8x3/4	09-09348-R225876
1			ON	5/8x3/4	11-13870-R225877
1			ON	5/8x3/4	01-14000-R225882
1			ON	5/8x3/4	05-08020-R225884
1			ON	5/8x3/4	11-22750-S12520
1			ON	5/8x3/4	04-00175-S334966
1			ON	5/8x3/4	04-00310-S334967
1			ON	5/8x3/4	04-00330-S334971
1			ON	5/8x3/4	04-00355-S334972
1			ON	5/8x3/4	04-00315-S334973
1			ON	5/8x3/4	04-00345-S334975
1			ON	5/8x3/4	04-00305-S334988
1			ON	5/8x3/4	04-00335-S334990
1			ON	5/8x3/4	04-00350-S334993
1			ON	5/8x3/4	04-00325-S335012
1			ON	5/8x3/4	13-08500-S512519

1			ON	5/8x3/4	05-03340-S512729
1			ON	5/8x3/4	08-14670-S512734
1			ON	5/8x3/4	14-07350-S512735
1			ON	5/8x3/4	05-03350-S512737
1	R T		ON	5/8x3/4	14-07375-S512738
1			ON	5/8x3/4	06-10553-S512739
1			ON	5/8x3/4	05-03320-S512740
1			ON	5/8x3/4	13-00620-S526438
1			ON	5/8x3/4	10-05330-S526441
1			ON	5/8x3/4	09-07001-S526442
1			ON	5/8x3/4	05-08030-S526444
1			ON	5/8x3/4	06-10532-S526446
1			ON	5/8x3/4	06-09400-S526447
1			ON	5/8x3/4	06-07458-S526448
1			ON	5/8x3/4	07-11500-S526449
1			ON	5/8x3/4	07-17702-S526474
1			ON	5/8x3/4	03-05700-S526477
1			ON	5/8x3/4	05-12800-S526479
1			ON	5/8x3/4	05-12501-S526529
1			ON	5/8x3/4	03-10200-S526533
1			ON	5/8x3/4	08-15400-T509211
1			ON	5/8x3/4	06-01536-T509213
1			ON	5/8x3/4	06-01540-T509216
1			ON	5/8x3/4	03-12000-T509219
1			ON	5/8x3/4	14-01008-T509229
1			ON	5/8x3/4	09-06500-T514887
1			ON	5/8x3/4	12-02401-T514889
1			ON	5/8x3/4	01-16500-T514911
1			ON	5/8x3/4	08-10800-T514914
1			ON	5/8x3/4	08-10200-T514952
1			ON	5/8x3/4	11-13865-T514955
1			ON	5/8x3/4	14-08701-T514959
1			ON	5/8x3/4	10-03720-T514962
1			ON	5/8x3/4	10-03291-T517731
1			ON	5/8x3/4	07-17601-T517733
1		4/1/2008	ON	5/8x3/4	03-08400-T517767
1			ON	5/8x3/4	12-02600-T517768
1			ON	5/8x3/4	09-03303-T517850
1			ON	5/8x3/4	02-01375-T517852
1			ON	5/8x3/4	10-03662-T517853
1			ON	5/8x3/4	13-00925-T517857
1	R T		ON	5/8x3/4	10-06435-T520615
1			ON	5/8x3/4	06-01526-T520617
1			ON	5/8x3/4	10-03155-T520620
1			ON	5/8x3/4	02-07180-T523511
1		4/9/1999	ON	5/8x3/4	13-05800-T523512
1			ON	5/8x3/4	13-02901-T523513

1			ON	5/8x3/4	03-11905-T523516
1			ON	5/8x3/4	07-19105-T523517
1			ON	5/8x3/4	07-13001-T523520
1			ON	5/8x3/4	03-04200-T523541
1			ON	5/8x3/4	08-12900-T523595
1			ON	5/8x3/4	11-13854-T523599
1			ON	5/8x3/4	05-02000-T524083
1			ON	5/8x3/4	05-05004-T524086
1			ON	5/8x3/4	13-00925-T529386
1			ON	5/8x3/4	07-06723-T529456
1			ON	5/8x3/4	09-03000-T529457
1			ON	5/8x3/4	02-02150-T529534
1			ON	5/8x3/4	14-04113-T529536
1			ON	5/8x3/4	10-07057-T529537
1			ON	5/8x3/4	11-23010-T533758
1			ON	5/8x3/4	03-08150-U304625
1		3/17/2008	ON	5/8x3/4	12-00007-U304695
1			ON	5/8x3/4	10-05357-U304696
1			ON	5/8x3/4	10-05310-U304698
1			ON	5/8x3/4	05-08035-U304804
1			ON	5/8x3/4	11-22850-U304805
1			ON	5/8x3/4	13-06203-U304827
1			ON	5/8x3/4	11-13830-U304829
1		3/10/2006	ON	5/8x3/4	05-02800-U609425
1			ON	5/8x3/4	02-11101-U609427
1			ON	5/8x3/4	10-07039-U609466
1	R T	5/1/2006	ON	5/8x3/4	09-05670-U609509
1			ON	5/8x3/4	06-10551-U609513
1			ON	5/8x3/4	10-03200-U609515
1			ON	5/8x3/4	07-18105-U609519
1			ON	5/8x3/4	07-15313-U609520
1			ON	5/8x3/4	01-06343-U616216
1			ON	5/8x3/4	01-06309-U616217
1			ON	5/8x3/4	01-06357-U616218
1			ON	5/8x3/4	01-06369-U616220
1			ON	5/8x3/4	01-06331-U616221
1		3/11/1997	ON	5/8x3/4	01-06372-U616240
1			ON	5/8x3/4	01-06380-U616241
1			ON	5/8x3/4	01-06390-U616245
1			ON	5/8x3/4	05-05550-U618235
1			ON	5/8x3/4	03-11305-U618236
1			ON	5/8x3/4	10-05320-V304041
1			ON	5/8x3/4	01-06279-V304132
1			ON	5/8x3/4	10-03540-V304135
1			ON	5/8x3/4	03-10108-V304623
1			ON	5/8x3/4	12-06301-V304628
1			ON	5/8x3/4	06-04031-V304749

1		ON	5/8x3/4	05-01210-V304751
1		ON	5/8x3/4	06-10101-V304807
1		ON	5/8x3/4	01-06701-V515241
1		ON	5/8x3/4	11-10540-V538093
1		ON	5/8x3/4	11-10890-V538094
1	3/9/1998	ON	5/8x3/4	10-07100-V538128
1	7/10/1998	ON	5/8x3/4	02-01260-V540173
1		ON	5/8x3/4	11-10404-X306885
1		ON	5/8x3/4	02-11901-X306888
1		ON	5/8x3/4	07-17812-X306891
1		ON	5/8x3/4	01-16200-X306892
1		ON	5/8x3/4	09-01201-X306896
1		ON	5/8x3/4	13-05500-X306897
1		ON	5/8x3/4	10-03122-X306899
1		ON	5/8x3/4	06-08349-X306901
1		ON	5/8x3/4	10-06200-X306905
1	12/3/2001	ON	5/8x3/4	03-05803-X321206
1		ON	5/8x3/4	09-07400-X324677
1		ON	5/8x3/4	10-03460-X324678
1		ON	5/8x3/4	09-09300-X324684
1		ON	5/8x3/4	06-09320-X534669
1		ON	5/8x3/4	06-09325-X534671
1		ON	5/8x3/4	06-07900-X534676
1		ON	5/8x3/4	05-04500-X534677
1	4/23/1997	ON	5/8x3/4	09-04800-X534747
1		ON	5/8x3/4	13-09000-X534749
1	3/7/1997	ON	5/8x3/4	09-08525-X534753
1	6/25/1997	ON	5/8x3/4	10-06437-X534754
1		ON	5/8x3/4	10-05335-Y304476
1	4/9/1997	ON	5/8x3/4	07-16104-Y304482
1	10/20/2017	ON	5/8x3/4	13-04602-Y304918
1	4/7/2006	ON	5/8x3/4	06-10400-Y309804
1	2/25/1998	ON	5/8x3/4	05-04699-Y309810
1	1/2/2003	ON	5/8x3/4	05-05402-Y309811
1	8/28/2000	ON	5/8x3/4	07-18201-Y310032
1	7/28/1998	ON	5/8x3/4	14-04062-Y310035
1	10/8/1999	ON	5/8x3/4	11-21679-Y315474
1	12/2/1997	ON	5/8x3/4	06-09660-Y317177
1	12/29/1997	ON	5/8x3/4	01-17500-Y317180
1	6/8/1998	ON	5/8x3/4	06-10548-Y317181
1		ON	5/8x3/4	10-03570-Y317186
1		ON	5/8x3/4	09-00902-Y317297
1	12/3/1997	ON	5/8x3/4	06-09650-Y317299
1	10/26/1999	ON	5/8x3/4	07-17910-Y317301
1		ON	5/8x3/4	09-09335-Y317302
1	3/9/1998	ON	5/8x3/4	09-09345-Y317305
1	11/13/1998	ON	5/8x3/4	11-21524-Z304773

1		2/10/1999	ON	5/8x3/4	11-23020-Z311604
1		3/17/1999	ON	5/8x3/4	09-05743-Z320544
1		12/21/1998	ON	5/8x3/4	14-03230-Z321744
1		10/9/2001	ON	5/8x3/4	05-09300-Z321814
1		12/12/2000	ON	5/8x3/4	13-03230-Z321815
1		12/10/1998	ON	5/8x3/4	06-09680-Z321816
1		11/13/2002	ON	5/8x3/4	10-03130-Z321817
1			ON	5/8x3/4	05-01308-Z321818
1		7/12/1999	ON	5/8x3/4	05-03220-Z321820
1		3/12/1999	ON	5/8x3/4	10-03585-Z321821
1	R T	12/1/1998	ON	5/8x3/4	10-06438-Z321823
40	RADIO	5/7/2015	ON	9s	14-09675-32792547
40	RADIO	1/30/2015	ON	9s	12-03210-32792550
80	RADIO	1/16/2014	ON	9s	12-14888-32792552
80	RADIO	1/26/2015	ON	9s	14-04250-32792564
40	RADIO	4/3/2013	ON	9s	12-14912-32792579
40	RADIO	10/29/2013	ON	9s	13-10100-32792585
40	RADIO	1/30/2015	ON	9s	13-06310-32792589
100	RADIO	1/3/2022	ON	9s	14-02620-32792590
40	RADIO	1/30/2015	ON	9s	14-03450-32792593
40	RADIO	1/21/2015	ON	9s	14-04400-32792601
40	RADIO	1/19/2022	ON	9s	13-02041-32792608
80	RADIO	8/27/2014	ON	9s	14-02951-32792611
40	RADIO	1/8/2015	ON	9s	13-02010-32792615
160	RADIO	9/23/2015	ON	9s	12-14920-40231528
100	RADIO	11/16/2018	ON	9s	12-14812-40231538
40	RADIO	1/27/2015	ON	9s	13-08405-40231540
120	RADIO	8/27/2014	ON	9s	13-07185-40231550
40	RADIO	1/20/2015	ON	9s	12-05700-44806918
80	RADIO	1/26/2015	ON	9s	13-07800-44806919
40	RADIO	1/20/2015	ON	9s	12-10300-44806923
80	RADIO	8/24/2015	ON	9s	14-03950-47281340
40	RADIO	1/23/2015	ON	9s	13-02901-47821330
40	RADIO	6/26/2018	ON	9s	12-14911-47821336
40	RADIO	8/22/2013	ON	9s	14-08260-49382896
40	RADIO	1/30/2015	ON	9s	14-03330-49382905
100	RADIO	4/27/2022	OFF	9s	14-03391-49382907
80	RADIO	2/19/2019	ON	9s	12-12090-49596987
120	RADIO	1/17/2019	ON	9s	14-03265-53341127
80	RADIO	1/8/2015	ON	9s	12-14812-53341132
40	RADIO	1/26/2015	ON	9s	12-14812-53341133
80	RADIO	3/20/2023	ON	9s	14-00700-53341139
60	RADIO	10/4/2021	ON	9s	13-03540-53341143
60	RADIO	3/19/2020	ON	9s	14-03295-53341148
40	RADIO	8/27/2014	ON	9s	13-01400-59168086
40	MANUAL	1/19/2024	ON	9s	14-09251-59168090
20	RADIO	4/4/2013	ON	9s	12-14910-59168092

40	RADIO	1/23/2015	ON	9s	13-00100-59168093
160	RADIO	1/28/2022	ON	9s	14-03300-61060491
120	RADIO	2/26/2015	ON	9s	14-03196-61060493
60	RADIO	12/1/2016	ON	9s	14-04000-61060494
120	RADIO	7/15/2016	ON	9s	13-05004-61060495
40	RADIO	1/23/2015	ON	9s	13-08111-61060496
300	RADIO	7/17/2017	ON	9s	14-02607-61060502
160	RADIO	8/29/2014	ON	9s	12-14895-61060503
1	RADIO	1/8/2015	OFF	unknown	13-03410-4298512
1	RADIO	3/21/2011	OFF	unknown	14-04250-20890545
1	RADIO	5/24/2011	OFF	unknown	10-08801-20924868
1	RADIO	9/5/2019	OFF	unknown	13-07911-32292473
1	RADIO	1/30/2015	OFF	unknown	13-09540-32292921
1	RADIO	6/13/2023	OFF	unknown	07-16206-32293187
1	RADIO	1/20/2015	OFF	unknown	12-07202-32293206
1	RADIO	5/31/2019	OFF	unknown	14-03440-32293273
1	RADIO	9/1/2020	OFF	unknown	12-07710-32792625
1	RADIO	9/20/2004	OFF	unknown	09-00160-34193613
1	RADIO	4/8/2015	OFF	unknown	10-12330-35255704
1	RADIO	12/5/2012	OFF	unknown	10-12330-35711408
1	RADIO	2/13/2014	OFF	unknown	11-23110-35712082
1	RADIO	10/28/2013	OFF	unknown	05-04320-35712293
1	RADIO	2/5/2021	OFF	unknown	12-10900-39136822
1	RADIO	8/26/2019	OFF	unknown	12-02910-39136908
1	RADIO	1/21/2015	OFF	unknown	14-08130-39481683
1	RADIO	4/6/2016	OFF	unknown	04-00275-40209886
1	RADIO	2/11/2014	OFF	unknown	11-02830-41280893
1	RADIO	10/14/2013	OFF	unknown	05-02700-41281650
1	RADIO	10/14/2013	OFF	unknown	05-01600-41281786
1	RADIO	1/8/2015	OFF	unknown	13-04101-42985165
1	RADIO	1/8/2015	OFF	unknown	13-03420-42985166
1	RADIO	10/11/2013	OFF	unknown	02-01300-43088930
1	RADIO	11/2/2021	OFF	unknown	04-00360-44784513
1	RADIO	9/19/2013	OFF	unknown	03-04900-47130250
1	RADIO	10/18/2021	OFF	unknown	11-02735-47784567
1	RADIO	4/24/2007	OFF	unknown	07-20048-48908274
1	RADIO	4/24/2007	OFF	unknown	07-20104-48908303
1	RADIO	4/24/2007	OFF	unknown	07-20061-48908304
1	RADIO	9/19/2013	OFF	unknown	02-00675-49019016
1	RADIO	12/2/2013	OFF	unknown	09-06800-49019108
1	RADIO	1/20/2015	OFF	unknown	13-08022-49980222
1	RADIO	2/13/2014	OFF	unknown	11-23160-49980268
1	RADIO	12/2/2013	OFF	unknown	04-00210-49980355
1	RADIO	10/28/2008	OFF	unknown	11-02720-50402185
1	RADIO	12/10/2013	OFF	unknown	10-10100-55796220
1	RADIO	12/2/2013	OFF	unknown	09-06400-55796257
1	RADIO	8/20/2009	OFF	unknown	11-05204-56740525

1			OFF	unknown	30-00210-57471036
1	RADIO	2/6/2017	OFF	unknown	04-00910-59774698
1	RADIO	9/19/2013	OFF	unknown	02-01225-61807783
1	RADIO	2/13/2014	OFF	unknown	11-23120-61807794
1	RADIO	12/2/2013	OFF	unknown	04-00850-61807812
1	RADIO	1/23/2015	OFF	unknown	13-09801-61807832
1	RADIO	2/14/2014	OFF	unknown	11-13500-61807843
1	RADIO	2/9/2015	OFF	unknown	12-14888-64502600
1	RADIO	9/19/2013	OFF	unknown	03-09700-64502648
1	RADIO	1/20/2015	OFF	unknown	12-07202-89011794
1	RADIO	9/19/2013	OFF	unknown	02-00650-89114221
1	RADIO	1/20/2015	OFF	unknown	13-08022-89114313
0.5		10/29/2008	OFF	unknown	09-01912-8388647
1	MANUAL	6/4/2019	ON	unknown	13-05062-54518372
1	RADIO	9/22/2021	ON	unknown	08-10708-212047369
0.5			OFF	unknown	14-04113-@+T529345
1			OFF	unknown	14-01302-@8221775
1	R T		OFF	unknown	30-00210-F923108
1		4/17/1997	OFF	unknown	14-01601-R212670
1			OFF	unknown	11-06300-X315622

Age	Age Bucket	Solar Reserve
No Install Date	No Install Date	
19.3	d. 15-19 yrs	
19.3	d. 15-19 yrs	
14.7	c. 10-14 yrs	
No Install Date	No Install Date	
No Install Date	No Install Date	
No Install Date	No Install Date	
20.5	e. 20+ yrs	
No Install Date	No Install Date	
No Install Date	No Install Date	
21.1	e. 20+ yrs	
No Install Date	No Install Date	
26.3	e. 20+ yrs	
1.8	a. 0-4 yrs	
8.2	b. 5-9 yrs	
7.6	b. 5-9 yrs	
7.7	b. 5-9 yrs	
7.7	b. 5-9 yrs	
7.6	b. 5-9 yrs	
7.3	b. 5-9 yrs	
7.3	b. 5-9 yrs	
6.3	b. 5-9 yrs	
6.8	b. 5-9 yrs	
6.9	b. 5-9 yrs	
5.7	b. 5-9 yrs	
5.7	b. 5-9 yrs	
5.1	b. 5-9 yrs	
5.1	b. 5-9 yrs	
No Install Date	No Install Date	
No Install Date	No Install Date	
21.0	e. 20+ yrs	
3.7	a. 0-4 yrs	
3.5	a. 0-4 yrs	
4.4	a. 0-4 yrs	
4.3	a. 0-4 yrs	
3.2	a. 0-4 yrs	
3.0	a. 0-4 yrs	
0.4	a. 0-4 yrs	
0.4	a. 0-4 yrs	
1.4	a. 0-4 yrs	
1.4	a. 0-4 yrs	
1.1	a. 0-4 yrs	
1.2	a. 0-4 yrs	
1.1	a. 0-4 yrs	
0.1	a. 0-4 yrs	
0.1	a. 0-4 yrs	

0.5	a. 0-4 yrs
0.1	a. 0-4 yrs
24.5	e. 20+ yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
2.9	a. 0-4 yrs
21.7	e. 20+ yrs
No Install Date	No Install Date
16.2	d. 15-19 yrs
10.9	c. 10-14 yrs
2.9	a. 0-4 yrs
22.8	e. 20+ yrs
22.9	e. 20+ yrs
22.2	e. 20+ yrs
10.1	c. 10-14 yrs
2.8	a. 0-4 yrs
2.3	a. 0-4 yrs
2.7	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.2	a. 0-4 yrs
2.3	a. 0-4 yrs
2.1	a. 0-4 yrs
2.6	a. 0-4 yrs
2.2	a. 0-4 yrs
1.5	a. 0-4 yrs
1.7	a. 0-4 yrs
2.2	a. 0-4 yrs
1.8	a. 0-4 yrs
1.9	a. 0-4 yrs
1.8	a. 0-4 yrs
2.5	a. 0-4 yrs
2.4	a. 0-4 yrs
2.4	a. 0-4 yrs
2.4	a. 0-4 yrs
2.5	a. 0-4 yrs
1.7	a. 0-4 yrs
No Install Date	No Install Date
20.7	e. 20+ yrs
19.9	d. 15-19 yrs
19.2	d. 15-19 yrs
18.7	d. 15-19 yrs
23.2	e. 20+ yrs
16.9	d. 15-19 yrs
19.7	d. 15-19 yrs
No Install Date	No Install Date

No Install Date	No Install Date
6.6	b. 5-9 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
13.4	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
25.5	e. 20+ yrs
13.3	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
15.7	d. 15-19 yrs
15.5	d. 15-19 yrs
19.9	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
4.0	a. 0-4 yrs
7.6	b. 5-9 yrs
14.2	c. 10-14 yrs
22.1	e. 20+ yrs
13.3	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
7.6	b. 5-9 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
6.7	b. 5-9 yrs
0.7	a. 0-4 yrs
No Install Date	No Install Date
11.7	c. 10-14 yrs
9.6	b. 5-9 yrs
4.7	a. 0-4 yrs

19.6	d. 15-19 yrs
3.8	a. 0-4 yrs
4.4	a. 0-4 yrs
3.6	a. 0-4 yrs
3.1	a. 0-4 yrs
2.5	a. 0-4 yrs
2.7	a. 0-4 yrs
0.9	a. 0-4 yrs
2.1	a. 0-4 yrs
2.5	a. 0-4 yrs
2.1	a. 0-4 yrs
1.3	a. 0-4 yrs
2.2	a. 0-4 yrs
3.7	a. 0-4 yrs
2.3	a. 0-4 yrs
1.8	a. 0-4 yrs
1.7	a. 0-4 yrs
2.6	a. 0-4 yrs
0.8	a. 0-4 yrs
1.0	a. 0-4 yrs
0.6	a. 0-4 yrs
0.3	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
1.0	a. 0-4 yrs
0.8	a. 0-4 yrs
0.9	a. 0-4 yrs
23.3	e. 20+ yrs
1.3	a. 0-4 yrs
22.7	e. 20+ yrs
22.5	e. 20+ yrs
23.0	e. 20+ yrs
18.1	d. 15-19 yrs
17.8	d. 15-19 yrs
17.7	d. 15-19 yrs
17.4	d. 15-19 yrs
4.3	a. 0-4 yrs
16.8	d. 15-19 yrs
16.1	d. 15-19 yrs
16.4	d. 15-19 yrs
8.6	b. 5-9 yrs
16.0	d. 15-19 yrs
14.7	c. 10-14 yrs
13.6	c. 10-14 yrs
13.6	c. 10-14 yrs
13.4	c. 10-14 yrs
9.4	b. 5-9 yrs

9.9	b. 5-9 yrs
12.9	c. 10-14 yrs
12.4	c. 10-14 yrs
11.9	c. 10-14 yrs
12.1	c. 10-14 yrs
11.9	c. 10-14 yrs
10.3	c. 10-14 yrs
10.7	c. 10-14 yrs
9.9	b. 5-9 yrs
10.2	c. 10-14 yrs
9.6	b. 5-9 yrs
9.5	b. 5-9 yrs
9.3	b. 5-9 yrs
9.4	b. 5-9 yrs
9.0	b. 5-9 yrs
8.9	b. 5-9 yrs
8.8	b. 5-9 yrs
8.5	b. 5-9 yrs
8.6	b. 5-9 yrs
7.2	b. 5-9 yrs
7.8	b. 5-9 yrs
7.6	b. 5-9 yrs
7.6	b. 5-9 yrs
7.2	b. 5-9 yrs
7.5	b. 5-9 yrs
7.4	b. 5-9 yrs
7.2	b. 5-9 yrs
7.0	b. 5-9 yrs
6.8	b. 5-9 yrs
6.1	b. 5-9 yrs
5.8	b. 5-9 yrs
5.2	b. 5-9 yrs
4.3	a. 0-4 yrs
5.1	b. 5-9 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.4	a. 0-4 yrs
4.4	a. 0-4 yrs
3.1	a. 0-4 yrs
2.4	a. 0-4 yrs
2.9	a. 0-4 yrs
4.2	a. 0-4 yrs
16.9	d. 15-19 yrs
1.9	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
2.9	a. 0-4 yrs

0.9	a. 0-4 yrs
1.3	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
0.9	a. 0-4 yrs
4.2	a. 0-4 yrs
No Install Date	No Install Date
1.6	a. 0-4 yrs
2.1	a. 0-4 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
6.6	b. 5-9 yrs
19.0	d. 15-19 yrs
18.9	d. 15-19 yrs
18.5	d. 15-19 yrs
18.8	d. 15-19 yrs
19.7	d. 15-19 yrs
23.6	e. 20+ yrs
22.1	e. 20+ yrs
23.9	e. 20+ yrs
23.7	e. 20+ yrs
23.4	e. 20+ yrs
23.8	e. 20+ yrs
23.1	e. 20+ yrs
19.7	d. 15-19 yrs
17.8	d. 15-19 yrs
15.7	d. 15-19 yrs
17.7	d. 15-19 yrs
17.7	d. 15-19 yrs
17.7	d. 15-19 yrs
10.6	c. 10-14 yrs
14.6	c. 10-14 yrs
6.6	b. 5-9 yrs
12.2	c. 10-14 yrs
12.2	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
6.6	b. 5-9 yrs
No Install Date	No Install Date
No Install Date	No Install Date

No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
26.9	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
23.6	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
25.5	e. 20+ yrs
No Install Date	No Install Date
24.1	e. 20+ yrs
No Install Date	No Install Date
25.4	e. 20+ yrs
24.7	e. 20+ yrs
24.1	e. 20+ yrs
No Install Date	No Install Date
22.8	e. 20+ yrs
24.1	e. 20+ yrs
25.6	e. 20+ yrs
25.0	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date

No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
23.5	e. 20+ yrs
No Install Date	No Install Date
25.8	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
25.8	e. 20+ yrs
24.1	e. 20+ yrs
25.9	e. 20+ yrs
25.2	e. 20+ yrs
10.7	c. 10-14 yrs
15.1	d. 15-19 yrs
15.1	d. 15-19 yrs
9.5	b. 5-9 yrs
11.4	c. 10-14 yrs
6.9	b. 5-9 yrs
20.9	e. 20+ yrs
20.6	e. 20+ yrs
1.3	a. 0-4 yrs
0.4	a. 0-4 yrs
19.0	d. 15-19 yrs
18.8	d. 15-19 yrs
5.1	b. 5-9 yrs
4.7	a. 0-4 yrs
3.7	a. 0-4 yrs
5.2	b. 5-9 yrs
4.4	a. 0-4 yrs
7.5	b. 5-9 yrs
24.8	e. 20+ yrs
No Install Date	No Install Date
1.0	a. 0-4 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
24.9	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
12.1	c. 10-14 yrs
14.3	c. 10-14 yrs
10.4	c. 10-14 yrs
No Install Date	No Install Date

10.9	c. 10-14 yrs
11.2	c. 10-14 yrs
0.3	a. 0-4 yrs
22.7	e. 20+ yrs
3.1	a. 0-4 yrs
3.1	a. 0-4 yrs
1.2	a. 0-4 yrs
2.9	a. 0-4 yrs
2.1	a. 0-4 yrs
2.0	a. 0-4 yrs
0.4	a. 0-4 yrs
1.1	a. 0-4 yrs
0.8	a. 0-4 yrs
6.5	b. 5-9 yrs
25.0	e. 20+ yrs
25.1	e. 20+ yrs
23.0	e. 20+ yrs
18.2	d. 15-19 yrs
17.5	d. 15-19 yrs
17.6	d. 15-19 yrs
17.4	d. 15-19 yrs
16.8	d. 15-19 yrs
15.0	c. 10-14 yrs
12.3	c. 10-14 yrs
12.1	c. 10-14 yrs
2.0	a. 0-4 yrs
11.1	c. 10-14 yrs
5.7	b. 5-9 yrs
7.6	b. 5-9 yrs
4.6	a. 0-4 yrs
5.1	b. 5-9 yrs
3.6	a. 0-4 yrs
4.1	a. 0-4 yrs
3.9	a. 0-4 yrs
3.3	a. 0-4 yrs
6.7	b. 5-9 yrs
6.7	b. 5-9 yrs
6.7	b. 5-9 yrs
2.1	a. 0-4 yrs
6.8	b. 5-9 yrs
6.2	b. 5-9 yrs
4.0	a. 0-4 yrs
1.5	a. 0-4 yrs
4.0	a. 0-4 yrs
5.4	b. 5-9 yrs
4.0	a. 0-4 yrs
3.1	a. 0-4 yrs

4.0	a. 0-4 yrs
23.0	e. 20+ yrs
8.7	b. 5-9 yrs
5.9	b. 5-9 yrs
No Install Date	No Install Date
18.0	d. 15-19 yrs
23.8	e. 20+ yrs
25.3	e. 20+ yrs
5.9	b. 5-9 yrs
No Install Date	No Install Date
20.3	e. 20+ yrs
No Install Date	No Install Date
7.2	b. 5-9 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
26.8	e. 20+ yrs
26.8	e. 20+ yrs
26.8	e. 20+ yrs
1.4	a. 0-4 yrs
12.8	c. 10-14 yrs
5.6	b. 5-9 yrs
No Install Date	No Install Date
1.9	a. 0-4 yrs
13.9	c. 10-14 yrs
12.9	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
3.7	a. 0-4 yrs
5.3	b. 5-9 yrs
9.1	b. 5-9 yrs
9.9	b. 5-9 yrs
4.0	a. 0-4 yrs
0.4	a. 0-4 yrs
0.2	a. 0-4 yrs
6.7	b. 5-9 yrs
9.1	b. 5-9 yrs
1.3	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
25.2	e. 20+ yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs

2.6	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
20.6	e. 20+ yrs
2.0	a. 0-4 yrs
3.3	a. 0-4 yrs
10.1	c. 10-14 yrs
25.2	e. 20+ yrs
9.1	b. 5-9 yrs
9.2	b. 5-9 yrs
9.6	b. 5-9 yrs
8.9	b. 5-9 yrs
8.7	b. 5-9 yrs
8.2	b. 5-9 yrs
2.9	a. 0-4 yrs
12.4	c. 10-14 yrs
2.7	a. 0-4 yrs
8.7	b. 5-9 yrs
9.1	b. 5-9 yrs
9.0	b. 5-9 yrs
9.1	b. 5-9 yrs
8.2	b. 5-9 yrs
2.5	a. 0-4 yrs
3.2	a. 0-4 yrs
8.7	b. 5-9 yrs
8.7	b. 5-9 yrs
9.1	b. 5-9 yrs
2.3	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
0.7	a. 0-4 yrs
8.2	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
7.6	b. 5-9 yrs
8.3	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
4.4	a. 0-4 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
8.7	b. 5-9 yrs
8.7	b. 5-9 yrs
8.7	b. 5-9 yrs

7.7	b. 5-9 yrs
3.8	a. 0-4 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
2.3	a. 0-4 yrs
9.1	b. 5-9 yrs
0.6	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
3.4	a. 0-4 yrs
8.9	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
1.2	a. 0-4 yrs
9.1	b. 5-9 yrs
6.7	b. 5-9 yrs
9.1	b. 5-9 yrs
3.9	a. 0-4 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
9.9	b. 5-9 yrs
9.1	b. 5-9 yrs
9.0	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.0	b. 5-9 yrs
9.1	b. 5-9 yrs
9.9	b. 5-9 yrs
9.9	b. 5-9 yrs
9.1	b. 5-9 yrs
0.7	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.8	b. 5-9 yrs
8.7	b. 5-9 yrs
9.1	b. 5-9 yrs
9.7	b. 5-9 yrs
9.1	b. 5-9 yrs
1.0	a. 0-4 yrs
5.4	b. 5-9 yrs
9.8	b. 5-9 yrs
9.1	b. 5-9 yrs
8.7	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs

9.9	b. 5-9 yrs
9.5	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
5.4	b. 5-9 yrs
2.9	a. 0-4 yrs
9.1	b. 5-9 yrs
6.3	b. 5-9 yrs
13.3	c. 10-14 yrs
2.1	a. 0-4 yrs
2.1	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.5	c. 10-14 yrs
14.5	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
1.4	a. 0-4 yrs
1.6	a. 0-4 yrs
10.4	c. 10-14 yrs
13.1	c. 10-14 yrs
12.7	c. 10-14 yrs
13.1	c. 10-14 yrs
13.4	c. 10-14 yrs
13.1	c. 10-14 yrs
13.0	c. 10-14 yrs
12.5	c. 10-14 yrs
12.8	c. 10-14 yrs
13.7	c. 10-14 yrs
13.1	c. 10-14 yrs
13.9	c. 10-14 yrs
13.8	c. 10-14 yrs
13.6	c. 10-14 yrs
12.7	c. 10-14 yrs
13.5	c. 10-14 yrs
13.3	c. 10-14 yrs
13.8	c. 10-14 yrs
13.4	c. 10-14 yrs
13.4	c. 10-14 yrs
13.1	c. 10-14 yrs
13.5	c. 10-14 yrs
11.3	c. 10-14 yrs
13.4	c. 10-14 yrs
13.0	c. 10-14 yrs

13.3	c. 10-14 yrs
12.7	c. 10-14 yrs
12.3	c. 10-14 yrs
12.7	c. 10-14 yrs
12.7	c. 10-14 yrs
13.1	c. 10-14 yrs
13.0	c. 10-14 yrs
13.9	c. 10-14 yrs
13.0	c. 10-14 yrs
13.7	c. 10-14 yrs
13.3	c. 10-14 yrs
13.1	c. 10-14 yrs
13.7	c. 10-14 yrs
13.4	c. 10-14 yrs
12.1	c. 10-14 yrs
13.0	c. 10-14 yrs
13.9	c. 10-14 yrs
12.8	c. 10-14 yrs
13.1	c. 10-14 yrs
13.1	c. 10-14 yrs
12.9	c. 10-14 yrs
13.0	c. 10-14 yrs
12.3	c. 10-14 yrs
12.7	c. 10-14 yrs
14.5	c. 10-14 yrs
13.0	c. 10-14 yrs
12.9	c. 10-14 yrs
12.7	c. 10-14 yrs
12.7	c. 10-14 yrs
12.7	c. 10-14 yrs
13.3	c. 10-14 yrs
12.7	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
13.7	c. 10-14 yrs
13.9	c. 10-14 yrs
13.3	c. 10-14 yrs
13.0	c. 10-14 yrs
13.1	c. 10-14 yrs
12.7	c. 10-14 yrs
12.4	c. 10-14 yrs
12.6	c. 10-14 yrs
12.6	c. 10-14 yrs
12.6	c. 10-14 yrs
9.9	b. 5-9 yrs
13.0	c. 10-14 yrs
12.5	c. 10-14 yrs

13.0	c. 10-14 yrs
13.0	c. 10-14 yrs
13.9	c. 10-14 yrs
12.4	c. 10-14 yrs
6.8	b. 5-9 yrs
12.7	c. 10-14 yrs
13.1	c. 10-14 yrs
13.4	c. 10-14 yrs
12.7	c. 10-14 yrs
14.5	c. 10-14 yrs
14.4	c. 10-14 yrs
13.3	c. 10-14 yrs
13.9	c. 10-14 yrs
13.0	c. 10-14 yrs
12.4	c. 10-14 yrs
8.7	b. 5-9 yrs
13.9	c. 10-14 yrs
13.9	c. 10-14 yrs
13.9	c. 10-14 yrs
13.1	c. 10-14 yrs
13.5	c. 10-14 yrs
13.6	c. 10-14 yrs
13.1	c. 10-14 yrs
13.1	c. 10-14 yrs
13.0	c. 10-14 yrs
13.9	c. 10-14 yrs
13.1	c. 10-14 yrs
13.4	c. 10-14 yrs
8.4	b. 5-9 yrs
13.1	c. 10-14 yrs
13.9	c. 10-14 yrs
13.1	c. 10-14 yrs
12.3	c. 10-14 yrs
13.9	c. 10-14 yrs
14.0	c. 10-14 yrs
13.4	c. 10-14 yrs
13.4	c. 10-14 yrs
12.3	c. 10-14 yrs
12.9	c. 10-14 yrs
12.7	c. 10-14 yrs
11.6	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
3.5	a. 0-4 yrs
10.4	c. 10-14 yrs
4.7	a. 0-4 yrs
3.0	a. 0-4 yrs

19.4	d. 15-19 yrs
1.6	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
4.4	a. 0-4 yrs
6.7	b. 5-9 yrs
0.7	a. 0-4 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
1.2	a. 0-4 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
5.4	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
1.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.3	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
9.3	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
5.7	b. 5-9 yrs
10.7	c. 10-14 yrs
9.3	b. 5-9 yrs
10.1	c. 10-14 yrs
4.8	a. 0-4 yrs
4.7	a. 0-4 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
9.4	b. 5-9 yrs
10.1	c. 10-14 yrs
0.4	a. 0-4 yrs
10.4	c. 10-14 yrs

10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
3.1	a. 0-4 yrs
10.4	c. 10-14 yrs
2.9	a. 0-4 yrs
10.4	c. 10-14 yrs
0.2	a. 0-4 yrs
1.4	a. 0-4 yrs
0.3	a. 0-4 yrs
1.3	a. 0-4 yrs
0.3	a. 0-4 yrs
2.7	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
4.6	a. 0-4 yrs
5.5	b. 5-9 yrs
1.9	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
8.2	b. 5-9 yrs
9.6	b. 5-9 yrs
10.3	c. 10-14 yrs
1.2	a. 0-4 yrs
0.6	a. 0-4 yrs
0.4	a. 0-4 yrs
3.4	a. 0-4 yrs
10.4	c. 10-14 yrs
0.3	a. 0-4 yrs
3.3	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
10.2	c. 10-14 yrs

10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.0	b. 5-9 yrs
2.2	a. 0-4 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.2	c. 10-14 yrs
6.0	b. 5-9 yrs
3.5	a. 0-4 yrs
10.4	c. 10-14 yrs
6.0	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
5.7	b. 5-9 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
8.3	b. 5-9 yrs
0.6	a. 0-4 yrs
10.4	c. 10-14 yrs
0.6	a. 0-4 yrs
4.9	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
2.7	a. 0-4 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
10.4	c. 10-14 yrs
3.4	a. 0-4 yrs
0.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
2.2	a. 0-4 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs

10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
4.4	a. 0-4 yrs
6.4	b. 5-9 yrs
10.4	c. 10-14 yrs
5.4	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
3.0	a. 0-4 yrs
5.1	b. 5-9 yrs
10.1	c. 10-14 yrs
1.3	a. 0-4 yrs
5.4	b. 5-9 yrs
9.1	b. 5-9 yrs
5.0	b. 5-9 yrs
1.5	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
8.1	b. 5-9 yrs
6.3	b. 5-9 yrs
10.4	c. 10-14 yrs
2.8	a. 0-4 yrs
4.5	a. 0-4 yrs
10.4	c. 10-14 yrs
9.2	b. 5-9 yrs
9.2	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
6.0	b. 5-9 yrs
2.9	a. 0-4 yrs
8.8	b. 5-9 yrs
10.4	c. 10-14 yrs
0.6	a. 0-4 yrs
0.9	a. 0-4 yrs
3.3	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
11.3	c. 10-14 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs

10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
8.8	b. 5-9 yrs
8.2	b. 5-9 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
8.8	b. 5-9 yrs
1.8	a. 0-4 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
2.9	a. 0-4 yrs
3.0	a. 0-4 yrs
0.5	a. 0-4 yrs
0.7	a. 0-4 yrs
6.2	b. 5-9 yrs
10.4	c. 10-14 yrs
11.3	c. 10-14 yrs
9.0	b. 5-9 yrs
10.4	c. 10-14 yrs
1.6	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
4.6	a. 0-4 yrs
4.6	a. 0-4 yrs
3.9	a. 0-4 yrs
4.5	a. 0-4 yrs
0.1	a. 0-4 yrs
4.5	a. 0-4 yrs
8.4	b. 5-9 yrs
11.2	c. 10-14 yrs
10.2	c. 10-14 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
8.8	b. 5-9 yrs
4.7	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
9.3	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
11.0	c. 10-14 yrs
0.4	a. 0-4 yrs
0.4	a. 0-4 yrs

4.4	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
8.9	b. 5-9 yrs
2.1	a. 0-4 yrs
4.6	a. 0-4 yrs
11.0	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
14.4	c. 10-14 yrs
5.5	b. 5-9 yrs
0.1	a. 0-4 yrs
1.2	a. 0-4 yrs
10.0	c. 10-14 yrs
2.0	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
3.9	a. 0-4 yrs
10.4	c. 10-14 yrs
3.9	a. 0-4 yrs
4.7	a. 0-4 yrs
10.1	c. 10-14 yrs
0.5	a. 0-4 yrs
3.5	a. 0-4 yrs
2.9	a. 0-4 yrs
3.1	a. 0-4 yrs
9.2	b. 5-9 yrs
10.1	c. 10-14 yrs
8.7	b. 5-9 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
8.7	b. 5-9 yrs
6.6	b. 5-9 yrs
6.9	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
1.2	a. 0-4 yrs
6.5	b. 5-9 yrs

6.6	b. 5-9 yrs
7.4	b. 5-9 yrs
8.7	b. 5-9 yrs
0.7	a. 0-4 yrs
23.5	e. 20+ yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
9.9	b. 5-9 yrs
8.7	b. 5-9 yrs
10.1	c. 10-14 yrs
8.7	b. 5-9 yrs
5.3	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
1.3	a. 0-4 yrs
5.9	b. 5-9 yrs
3.4	a. 0-4 yrs
9.1	b. 5-9 yrs
0.2	a. 0-4 yrs
6.4	b. 5-9 yrs
6.5	b. 5-9 yrs
4.4	a. 0-4 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
2.1	a. 0-4 yrs
7.2	b. 5-9 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
4.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
2.5	a. 0-4 yrs
10.4	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs

10.0	c. 10-14 yrs
3.9	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
8.8	b. 5-9 yrs
10.0	c. 10-14 yrs
5.9	b. 5-9 yrs
3.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
8.8	b. 5-9 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
11.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
11.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
4.2	a. 0-4 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
6.8	b. 5-9 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
9.1	b. 5-9 yrs
8.4	b. 5-9 yrs
10.1	c. 10-14 yrs
3.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs

11.2	c. 10-14 yrs
10.1	c. 10-14 yrs
0.9	a. 0-4 yrs
3.3	a. 0-4 yrs
10.3	c. 10-14 yrs
0.1	a. 0-4 yrs
10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
5.1	b. 5-9 yrs
2.4	a. 0-4 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
3.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
8.8	b. 5-9 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
9.1	b. 5-9 yrs
2.9	a. 0-4 yrs
0.2	a. 0-4 yrs
2.7	a. 0-4 yrs
1.1	a. 0-4 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
4.6	a. 0-4 yrs
11.0	c. 10-14 yrs
1.3	a. 0-4 yrs
11.2	c. 10-14 yrs
8.7	b. 5-9 yrs
6.5	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs

10.1	c. 10-14 yrs
2.1	a. 0-4 yrs
2.4	a. 0-4 yrs
2.7	a. 0-4 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
2.4	a. 0-4 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
8.6	b. 5-9 yrs
10.1	c. 10-14 yrs
11.0	c. 10-14 yrs
4.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
4.6	a. 0-4 yrs
6.3	b. 5-9 yrs
8.8	b. 5-9 yrs
2.0	a. 0-4 yrs
2.7	a. 0-4 yrs
3.1	a. 0-4 yrs
3.6	a. 0-4 yrs
0.1	a. 0-4 yrs
3.7	a. 0-4 yrs
10.3	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
1.1	a. 0-4 yrs
9.6	b. 5-9 yrs
10.1	c. 10-14 yrs
4.4	a. 0-4 yrs
2.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
3.8	a. 0-4 yrs
4.4	a. 0-4 yrs
4.3	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs

10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
9.8	b. 5-9 yrs
3.1	a. 0-4 yrs
3.0	a. 0-4 yrs
3.3	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
4.6	a. 0-4 yrs
5.4	b. 5-9 yrs
3.6	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
2.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs

10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
7.5	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
8.7	b. 5-9 yrs
8.8	b. 5-9 yrs
10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
11.2	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
8.5	b. 5-9 yrs
8.5	b. 5-9 yrs
10.3	c. 10-14 yrs
10.4	c. 10-14 yrs
9.9	b. 5-9 yrs
9.9	b. 5-9 yrs
8.7	b. 5-9 yrs
8.7	b. 5-9 yrs
8.6	b. 5-9 yrs
8.7	b. 5-9 yrs
10.4	c. 10-14 yrs
8.7	b. 5-9 yrs
8.8	b. 5-9 yrs
10.3	c. 10-14 yrs
11.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
6.3	b. 5-9 yrs
9.5	b. 5-9 yrs

3.0	a. 0-4 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
3.3	a. 0-4 yrs
9.7	b. 5-9 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
11.1	c. 10-14 yrs
9.1	b. 5-9 yrs
9.6	b. 5-9 yrs
3.5	a. 0-4 yrs
8.8	b. 5-9 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.9	b. 5-9 yrs
7.5	b. 5-9 yrs
10.1	c. 10-14 yrs
1.5	a. 0-4 yrs
9.1	b. 5-9 yrs
9.9	b. 5-9 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
8.8	b. 5-9 yrs
8.7	b. 5-9 yrs
9.1	b. 5-9 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
4.5	a. 0-4 yrs
10.1	c. 10-14 yrs
0.8	a. 0-4 yrs
2.0	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
6.0	b. 5-9 yrs
10.1	c. 10-14 yrs
6.7	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs

3.0	a. 0-4 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
11.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
1.3	a. 0-4 yrs
2.6	a. 0-4 yrs
11.3	c. 10-14 yrs
7.7	b. 5-9 yrs
4.0	a. 0-4 yrs
10.0	c. 10-14 yrs
3.7	a. 0-4 yrs
4.4	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
0.8	a. 0-4 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
4.4	a. 0-4 yrs
6.8	b. 5-9 yrs
10.1	c. 10-14 yrs
1.3	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
8.1	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
8.7	b. 5-9 yrs
7.3	b. 5-9 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
6.0	b. 5-9 yrs

10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
6.3	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
3.9	a. 0-4 yrs
3.6	a. 0-4 yrs
6.3	b. 5-9 yrs
10.2	c. 10-14 yrs
7.1	b. 5-9 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
3.5	a. 0-4 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
3.4	a. 0-4 yrs
6.6	b. 5-9 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
2.1	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
3.5	a. 0-4 yrs
10.3	c. 10-14 yrs
0.7	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
8.5	b. 5-9 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs

10.4	c. 10-14 yrs
6.8	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
7.4	b. 5-9 yrs
4.7	a. 0-4 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs
1.2	a. 0-4 yrs
10.4	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
5.7	b. 5-9 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
9.6	b. 5-9 yrs
10.3	c. 10-14 yrs
3.1	a. 0-4 yrs
10.4	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.5	c. 10-14 yrs
10.2	c. 10-14 yrs
6.2	b. 5-9 yrs
6.1	b. 5-9 yrs
10.1	c. 10-14 yrs
7.9	b. 5-9 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
6.8	b. 5-9 yrs
9.1	b. 5-9 yrs
2.7	a. 0-4 yrs
2.6	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
9.1	b. 5-9 yrs

11.3	c. 10-14 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
6.6	b. 5-9 yrs
10.0	c. 10-14 yrs
6.8	b. 5-9 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
6.6	b. 5-9 yrs
10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
10.3	c. 10-14 yrs
0.7	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
8.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.3	c. 10-14 yrs
2.8	a. 0-4 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
3.5	a. 0-4 yrs
10.1	c. 10-14 yrs
9.4	b. 5-9 yrs
8.8	b. 5-9 yrs
9.7	b. 5-9 yrs
11.2	c. 10-14 yrs
3.5	a. 0-4 yrs
6.6	b. 5-9 yrs
2.4	a. 0-4 yrs
10.2	c. 10-14 yrs
10.8	c. 10-14 yrs
10.4	c. 10-14 yrs
11.2	c. 10-14 yrs
10.2	c. 10-14 yrs
2.0	a. 0-4 yrs
0.2	a. 0-4 yrs
10.1	c. 10-14 yrs

10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
9.1	b. 5-9 yrs
1.0	a. 0-4 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
7.8	b. 5-9 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
3.1	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
1.4	a. 0-4 yrs
6.8	b. 5-9 yrs
11.3	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
8.7	b. 5-9 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
9.6	b. 5-9 yrs
2.1	a. 0-4 yrs
10.1	c. 10-14 yrs

10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
1.8	a. 0-4 yrs
3.2	a. 0-4 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
1.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
6.8	b. 5-9 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
8.2	b. 5-9 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
8.7	b. 5-9 yrs
10.1	c. 10-14 yrs
1.1	a. 0-4 yrs
8.3	b. 5-9 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs

10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
7.0	b. 5-9 yrs
10.1	c. 10-14 yrs
3.4	a. 0-4 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
3.9	a. 0-4 yrs
5.8	b. 5-9 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
2.8	a. 0-4 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
0.7	a. 0-4 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
8.8	b. 5-9 yrs
8.8	b. 5-9 yrs
10.4	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
6.9	b. 5-9 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
2.6	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
4.8	a. 0-4 yrs
4.9	a. 0-4 yrs
4.8	a. 0-4 yrs

4.9	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
5.5	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
6.8	b. 5-9 yrs
4.2	a. 0-4 yrs
6.7	b. 5-9 yrs
11.0	c. 10-14 yrs
6.7	b. 5-9 yrs
10.1	c. 10-14 yrs
5.8	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
5.4	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
2.1	a. 0-4 yrs
10.1	c. 10-14 yrs
9.4	b. 5-9 yrs
9.1	b. 5-9 yrs
2.2	a. 0-4 yrs

10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
0.5	a. 0-4 yrs
11.0	c. 10-14 yrs
2.7	a. 0-4 yrs
0.8	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
8.7	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
5.9	b. 5-9 yrs
10.1	c. 10-14 yrs
1.2	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.9	c. 10-14 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
10.9	c. 10-14 yrs
10.1	c. 10-14 yrs
2.0	a. 0-4 yrs
5.4	b. 5-9 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.4	a. 0-4 yrs
0.8	a. 0-4 yrs
1.4	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.2	c. 10-14 yrs
0.8	a. 0-4 yrs
11.0	c. 10-14 yrs

2.3	a. 0-4 yrs
4.1	a. 0-4 yrs
1.4	a. 0-4 yrs
0.9	a. 0-4 yrs
5.3	b. 5-9 yrs
1.4	a. 0-4 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
1.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
8.7	b. 5-9 yrs
9.0	b. 5-9 yrs
2.1	a. 0-4 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.5	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
10.4	c. 10-14 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
12.2	c. 10-14 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs

16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
12.1	c. 10-14 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.9	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8

10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
11.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
2.7	a. 0-4 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
5.7	b. 5-9 yrs
9.2	b. 5-9 yrs
11.3	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
8.7	b. 5-9 yrs
6.6	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
9.3	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs

9.1	b. 5-9 yrs
25.2	e. 20+ yrs
9.0	b. 5-9 yrs
6.6	b. 5-9 yrs
10.4	c. 10-14 yrs
9.0	b. 5-9 yrs
9.3	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
5.0	b. 5-9 yrs
9.7	b. 5-9 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	b. 5-9 yrs
9.3	b. 5-9 yrs
8.8	b. 5-9 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
25.2	e. 20+ yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
9.8	b. 5-9 yrs
10.2	c. 10-14 yrs
10.0	c. 10-14 yrs
9.7	b. 5-9 yrs
7.3	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
8.2	b. 5-9 yrs
10.2	c. 10-14 yrs
1.6	a. 0-4 yrs
9.1	b. 5-9 yrs

7.4	b. 5-9 yrs
8.7	b. 5-9 yrs
9.9	b. 5-9 yrs
3.7	a. 0-4 yrs
5.9	b. 5-9 yrs
4.4	a. 0-4 yrs
7.5	b. 5-9 yrs
9.1	b. 5-9 yrs
4.2	a. 0-4 yrs
0.3	a. 0-4 yrs
10.1	c. 10-14 yrs
5.8	b. 5-9 yrs
0.7	a. 0-4 yrs
10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
7.5	b. 5-9 yrs
0.7	a. 0-4 yrs
8.9	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
3.1	a. 0-4 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
4.4	a. 0-4 yrs
10.2	c. 10-14 yrs
0.6	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs

10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
2.4	a. 0-4 yrs
10.4	c. 10-14 yrs
1.1	a. 0-4 yrs
1.5	a. 0-4 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
2.0	a. 0-4 yrs
10.0	c. 10-14 yrs
2.7	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
8.9	b. 5-9 yrs
8.8	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
1.5	a. 0-4 yrs
9.1	b. 5-9 yrs
2.9	a. 0-4 yrs
2.6	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
8.7	b. 5-9 yrs
4.0	a. 0-4 yrs
8.7	b. 5-9 yrs
9.1	b. 5-9 yrs
5.7	b. 5-9 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
11.3	c. 10-14 yrs
10.1	c. 10-14 yrs
7.5	b. 5-9 yrs

10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
1.9	a. 0-4 yrs
9.3	b. 5-9 yrs
0.6	a. 0-4 yrs
10.0	c. 10-14 yrs
8.7	b. 5-9 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
1.1	a. 0-4 yrs
10.1	c. 10-14 yrs
1.1	a. 0-4 yrs
1.3	a. 0-4 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
6.0	b. 5-9 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
1.1	a. 0-4 yrs
11.2	c. 10-14 yrs
9.8	b. 5-9 yrs
7.1	b. 5-9 yrs
2.3	a. 0-4 yrs
1.1	a. 0-4 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
6.0	b. 5-9 yrs
10.0	c. 10-14 yrs
7.1	b. 5-9 yrs

7.4	b. 5-9 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
9.3	b. 5-9 yrs
11.0	c. 10-14 yrs
10.0	c. 10-14 yrs
1.5	a. 0-4 yrs
8.8	b. 5-9 yrs
4.8	a. 0-4 yrs
6.0	b. 5-9 yrs
6.0	b. 5-9 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
1.3	a. 0-4 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
3.0	a. 0-4 yrs
10.3	c. 10-14 yrs
7.9	b. 5-9 yrs
0.9	a. 0-4 yrs
11.3	c. 10-14 yrs
10.2	c. 10-14 yrs
1.2	a. 0-4 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
10.3	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
3.2	a. 0-4 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
0.7	a. 0-4 yrs
10.1	c. 10-14 yrs
1.3	a. 0-4 yrs
11.3	c. 10-14 yrs
3.6	a. 0-4 yrs

10.1	c. 10-14 yrs
3.6	a. 0-4 yrs
3.7	a. 0-4 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
2.5	a. 0-4 yrs
10.5	c. 10-14 yrs
3.7	a. 0-4 yrs
1.1	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
7.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
10.0	b. 5-9 yrs
10.0	c. 10-14 yrs
15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
14.6	c. 10-14 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
15.7	d. 15-19 yrs
15.7	d. 15-19 yrs
14.3	c. 10-14 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
13.3	c. 10-14 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
15.3	d. 15-19 yrs
15.6	d. 15-19 yrs

15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
15.6	d. 15-19 yrs
15.7	d. 15-19 yrs
15.7	d. 15-19 yrs
15.3	d. 15-19 yrs
13.1	c. 10-14 yrs
15.7	d. 15-19 yrs
15.7	d. 15-19 yrs
15.7	d. 15-19 yrs
15.6	d. 15-19 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
6.3	b. 5-9 yrs
6.3	b. 5-9 yrs
6.3	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
1.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs

9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
10.1	c. 10-14 yrs
1.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
2.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
6.8	b. 5-9 yrs
10.1	c. 10-14 yrs
8.7	b. 5-9 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
5.7	b. 5-9 yrs
10.3	c. 10-14 yrs
9.7	b. 5-9 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
10.3	c. 10-14 yrs
6.8	b. 5-9 yrs
10.1	c. 10-14 yrs
9.9	b. 5-9 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
7.2	b. 5-9 yrs
10.0	c. 10-14 yrs
7.3	b. 5-9 yrs
10.4	c. 10-14 yrs
6.3	b. 5-9 yrs
10.2	c. 10-14 yrs
5.5	b. 5-9 yrs

10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
2.4	a. 0-4 yrs
2.4	a. 0-4 yrs
1.1	a. 0-4 yrs
6.2	b. 5-9 yrs
10.1	c. 10-14 yrs
2.5	a. 0-4 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.4	c. 10-14 yrs
1.8	a. 0-4 yrs
6.3	b. 5-9 yrs
6.2	b. 5-9 yrs
1.1	a. 0-4 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
7.1	b. 5-9 yrs
10.3	c. 10-14 yrs
0.1	a. 0-4 yrs
6.8	b. 5-9 yrs
10.0	c. 10-14 yrs
8.9	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
1.5	a. 0-4 yrs
10.0	c. 10-14 yrs
6.0	b. 5-9 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
2.2	a. 0-4 yrs
3.1	a. 0-4 yrs
10.1	c. 10-14 yrs
7.9	b. 5-9 yrs
0.7	a. 0-4 yrs
10.4	c. 10-14 yrs
7.1	b. 5-9 yrs
6.4	b. 5-9 yrs
10.0	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.9	b. 5-9 yrs
8.9	b. 5-9 yrs
9.9	b. 5-9 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
12.7	c. 10-14 yrs

14.5	c. 10-14 yrs
6.9	b. 5-9 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
8.7	b. 5-9 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.3	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
9.6	b. 5-9 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14

14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
12.1	c. 10-14 yrs
14.5	c. 10-14 yrs
13.1	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
1.5	a. 0-4 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.4	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
7.5	b. 5-9 yrs
1.1	a. 0-4 yrs
9.6	b. 5-9 yrs
10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
10.5	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
8.8	b. 5-9 yrs
8.8	b. 5-9 yrs

8.8	b. 5-9 yrs
7.7	b. 5-9 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
7.2	b. 5-9 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs
1.1	a. 0-4 yrs
11.2	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
5.8	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.3	c. 10-14 yrs
9.3	b. 5-9 yrs
10.3	c. 10-14 yrs
9.1	b. 5-9 yrs
14.7	c. 10-14 yrs
7.4	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
7.4	b. 5-9 yrs
2.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
5.7	b. 5-9 yrs
10.1	c. 10-14 yrs
1.0	a. 0-4 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
1.3	a. 0-4 yrs
3.2	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs

2.1	a. 0-4 yrs
6.2	b. 5-9 yrs
10.4	c. 10-14 yrs
2.0	a. 0-4 yrs
10.3	c. 10-14 yrs
10.0	c. 10-14 yrs
3.8	a. 0-4 yrs
7.4	b. 5-9 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
0.9	a. 0-4 yrs
2.4	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
1.0	a. 0-4 yrs
10.0	c. 10-14 yrs
0.9	a. 0-4 yrs
1.1	a. 0-4 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
11.3	c. 10-14 yrs
10.1	c. 10-14 yrs
8.9	b. 5-9 yrs
10.0	c. 10-14 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
8.7	b. 5-9 yrs
8.7	b. 5-9 yrs
0.9	a. 0-4 yrs
9.0	b. 5-9 yrs
1.0	a. 0-4 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
6.8	b. 5-9 yrs
6.8	b. 5-9 yrs
1.3	a. 0-4 yrs
6.8	b. 5-9 yrs
11.1	c. 10-14 yrs
10.3	c. 10-14 yrs
7.2	b. 5-9 yrs
14.0	c. 10-14 yrs

14.1	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
14.0	c. 10-14 yrs
14.3	c. 10-14 yrs
14.6	c. 10-14 yrs
13.8	c. 10-14 yrs
1.4	a. 0-4 yrs
10.0	c. 10-14 yrs
14.6	c. 10-14 yrs
14.6	c. 10-14 yrs
12.3	c. 10-14 yrs
12.3	c. 10-14 yrs
12.3	c. 10-14 yrs
12.3	c. 10-14 yrs
14.2	c. 10-14 yrs
14.3	c. 10-14 yrs
14.4	c. 10-14 yrs
14.2	c. 10-14 yrs
13.4	c. 10-14 yrs
13.4	c. 10-14 yrs
14.0	c. 10-14 yrs
14.0	c. 10-14 yrs
14.0	c. 10-14 yrs
14.0	c. 10-14 yrs
14.0	c. 10-14 yrs
14.0	c. 10-14 yrs
13.9	c. 10-14 yrs
14.0	c. 10-14 yrs
12.4	c. 10-14 yrs
12.6	c. 10-14 yrs
12.1	c. 10-14 yrs
14.0	c. 10-14 yrs
14.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
5.7	b. 5-9 yrs
11.2	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs

6.9	b. 5-9 yrs
10.1	c. 10-14 yrs
10.5	c. 10-14 yrs
0.2	a. 0-4 yrs
8.7	b. 5-9 yrs
10.1	c. 10-14 yrs
11.2	c. 10-14 yrs
10.0	c. 10-14 yrs
0.9	a. 0-4 yrs
8.7	b. 5-9 yrs
7.4	b. 5-9 yrs
6.1	b. 5-9 yrs
6.0	b. 5-9 yrs
6.3	b. 5-9 yrs
6.2	b. 5-9 yrs
10.2	c. 10-14 yrs
7.4	b. 5-9 yrs
10.1	c. 10-14 yrs
6.4	b. 5-9 yrs
9.7	b. 5-9 yrs
4.3	a. 0-4 yrs
0.8	a. 0-4 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
7.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
3.0	a. 0-4 yrs
10.1	c. 10-14 yrs
7.3	b. 5-9 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
5.3	b. 5-9 yrs
9.6	b. 5-9 yrs
9.6	b. 5-9 yrs
3.2	a. 0-4 yrs
6.4	b. 5-9 yrs
8.8	b. 5-9 yrs
7.8	b. 5-9 yrs
2.5	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
10.4	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
9.1	b. 5-9 yrs

10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
9.6	b. 5-9 yrs
9.6	b. 5-9 yrs
1.4	a. 0-4 yrs
10.3	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
9.6	b. 5-9 yrs
10.4	c. 10-14 yrs
1.3	a. 0-4 yrs
6.6	b. 5-9 yrs
2.7	a. 0-4 yrs
10.2	c. 10-14 yrs
1.0	a. 0-4 yrs
7.4	b. 5-9 yrs
8.8	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
4.0	a. 0-4 yrs
8.8	b. 5-9 yrs
6.9	b. 5-9 yrs
2.0	a. 0-4 yrs
7.4	b. 5-9 yrs
9.0	b. 5-9 yrs
No Install Date	No Install Date
7.2	b. 5-9 yrs
10.3	c. 10-14 yrs
10.2	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
10.4	c. 10-14 yrs
7.2	b. 5-9 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.3	c. 10-14 yrs
3.7	a. 0-4 yrs
7.0	b. 5-9 yrs
10.2	c. 10-14 yrs
2.7	a. 0-4 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
7.4	b. 5-9 yrs

4.6	a. 0-4 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
1.2	a. 0-4 yrs
7.8	b. 5-9 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
1.1	a. 0-4 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
0.5	a. 0-4 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
5.9	b. 5-9 yrs
3.9	a. 0-4 yrs
10.3	c. 10-14 yrs
6.3	b. 5-9 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
3.3	a. 0-4 yrs
0.2	a. 0-4 yrs
11.3	c. 10-14 yrs
10.4	c. 10-14 yrs
2.7	a. 0-4 yrs
10.4	c. 10-14 yrs
1.9	a. 0-4 yrs
0.3	a. 0-4 yrs
0.5	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
1.6	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
1.1	a. 0-4 yrs
1.7	a. 0-4 yrs
11.0	c. 10-14 yrs

10.4	c. 10-14 yrs
0.5	a. 0-4 yrs
10.1	c. 10-14 yrs
9.5	b. 5-9 yrs
0.7	a. 0-4 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
0.6	a. 0-4 yrs
10.4	c. 10-14 yrs
0.7	a. 0-4 yrs
9.1	b. 5-9 yrs
4.9	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
3.3	a. 0-4 yrs
10.1	c. 10-14 yrs
8.8	b. 5-9 yrs
10.1	c. 10-14 yrs
6.1	b. 5-9 yrs
10.4	c. 10-14 yrs
2.7	a. 0-4 yrs
10.4	c. 10-14 yrs
9.5	b. 5-9 yrs
8.8	b. 5-9 yrs
10.4	c. 10-14 yrs
2.1	a. 0-4 yrs
0.2	a. 0-4 yrs
3.1	a. 0-4 yrs
10.6	c. 10-14 yrs
2.1	a. 0-4 yrs
6.7	b. 5-9 yrs
11.0	c. 10-14 yrs
3.9	a. 0-4 yrs
0.3	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs

11.0	c. 10-14 yrs
0.7	a. 0-4 yrs
1.6	a. 0-4 yrs
11.0	c. 10-14 yrs
1.6	a. 0-4 yrs
7.7	b. 5-9 yrs
0.4	a. 0-4 yrs
2.5	a. 0-4 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
4.4	a. 0-4 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
10.4	c. 10-14 yrs
8.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
1.2	a. 0-4 yrs
2.7	a. 0-4 yrs
6.4	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
1.6	a. 0-4 yrs
10.1	c. 10-14 yrs
5.0	b. 5-9 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
6.3	b. 5-9 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
11.0	c. 10-14 yrs
10.1	c. 10-14 yrs
6.4	b. 5-9 yrs
11.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
0.5	a. 0-4 yrs
8.0	b. 5-9 yrs
10.5	c. 10-14 yrs
11.0	c. 10-14 yrs
1.2	a. 0-4 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
6.6	b. 5-9 yrs

10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
No Install Date	No Install Date
6.3	b. 5-9 yrs
9.5	b. 5-9 yrs
10.1	c. 10-14 yrs
11.0	c. 10-14 yrs
10.1	c. 10-14 yrs
6.7	b. 5-9 yrs
10.1	c. 10-14 yrs
5.9	b. 5-9 yrs
6.7	b. 5-9 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
3.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
5.5	b. 5-9 yrs
3.4	a. 0-4 yrs
10.1	c. 10-14 yrs
0.5	a. 0-4 yrs
8.0	b. 5-9 yrs
10.2	c. 10-14 yrs
6.0	b. 5-9 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
10.6	c. 10-14 yrs
11.0	c. 10-14 yrs
5.5	b. 5-9 yrs
4.5	a. 0-4 yrs
4.7	a. 0-4 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
8.1	b. 5-9 yrs
0.5	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.4	b. 5-9 yrs
10.4	c. 10-14 yrs
3.3	a. 0-4 yrs
3.4	a. 0-4 yrs
0.3	a. 0-4 yrs
1.7	a. 0-4 yrs
4.7	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs

1.5	a. 0-4 yrs
11.3	c. 10-14 yrs
1.9	a. 0-4 yrs
9.1	b. 5-9 yrs
5.5	b. 5-9 yrs
4.7	a. 0-4 yrs
10.7	c. 10-14 yrs
3.5	a. 0-4 yrs
11.0	c. 10-14 yrs
1.8	a. 0-4 yrs
10.4	c. 10-14 yrs
10.6	c. 10-14 yrs
10.1	c. 10-14 yrs
6.4	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
6.1	b. 5-9 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
0.3	a. 0-4 yrs
0.9	a. 0-4 yrs
9.4	b. 5-9 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
10.1	c. 10-14 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
11.0	c. 10-14 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
10.2	c. 10-14 yrs
1.7	a. 0-4 yrs
1.0	a. 0-4 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
3.2	a. 0-4 yrs
10.4	c. 10-14 yrs
1.4	a. 0-4 yrs
0.8	a. 0-4 yrs
6.0	b. 5-9 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs

10.4	c. 10-14 yrs
1.9	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
4.7	a. 0-4 yrs
0.9	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
8.8	b. 5-9 yrs
0.7	a. 0-4 yrs
11.0	c. 10-14 yrs
8.3	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
1.3	a. 0-4 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
8.0	b. 5-9 yrs
6.9	b. 5-9 yrs
8.1	b. 5-9 yrs
7.2	b. 5-9 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
1.2	a. 0-4 yrs
4.9	a. 0-4 yrs
0.2	a. 0-4 yrs
10.4	c. 10-14 yrs
3.1	a. 0-4 yrs
10.1	c. 10-14 yrs
1.8	a. 0-4 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.4	c. 10-14 yrs

12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.4	c. 10-14 yrs
11.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
8.2	b. 5-9 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
9.0	b. 5-9 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.7	c. 10-14 yrs
12.9	c. 10-14 yrs
6.6	b. 5-9 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs

12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
12.9	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
2.0	a. 0-4 yrs
1.2	a. 0-4 yrs
6.2	b. 5-9 yrs
0.7	a. 0-4 yrs
0.9	a. 0-4 yrs
6.0	b. 5-9 yrs
0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
11.0	c. 10-14 yrs
0.5	a. 0-4 yrs
10.4	c. 10-14 yrs
0.4	a. 0-4 yrs
11.3	c. 10-14 yrs
11.2	c. 10-14 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
10.1	c. 10-14 yrs
0.1	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
1.6	a. 0-4 yrs
10.1	c. 10-14 yrs
0.5	a. 0-4 yrs
1.6	a. 0-4 yrs
10.4	c. 10-14 yrs
0.9	a. 0-4 yrs
10.4	c. 10-14 yrs
10.1	c. 10-14 yrs
0.6	a. 0-4 yrs
6.0	b. 5-9 yrs
10.1	c. 10-14 yrs
1.7	a. 0-4 yrs
10.4	c. 10-14 yrs
2.8	a. 0-4 yrs
0.8	a. 0-4 yrs
11.0	c. 10-14 yrs
9.4	b. 5-9 yrs
8.7	b. 5-9 yrs
1.4	a. 0-4 yrs
10.1	c. 10-14 yrs

10.8	c. 10-14 yrs
10.4	c. 10-14 yrs
3.7	a. 0-4 yrs
0.5	a. 0-4 yrs
10.4	c. 10-14 yrs
8.1	b. 5-9 yrs
4.6	a. 0-4 yrs
3.0	a. 0-4 yrs
0.4	a. 0-4 yrs
1.3	a. 0-4 yrs
9.4	b. 5-9 yrs
11.0	c. 10-14 yrs
9.1	b. 5-9 yrs
4.7	a. 0-4 yrs
0.5	a. 0-4 yrs
11.0	c. 10-14 yrs
1.8	a. 0-4 yrs
3.4	a. 0-4 yrs
10.4	c. 10-14 yrs
10.9	c. 10-14 yrs
4.1	a. 0-4 yrs
0.4	a. 0-4 yrs
1.3	a. 0-4 yrs
6.7	b. 5-9 yrs
0.6	a. 0-4 yrs
0.2	a. 0-4 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
4.1	a. 0-4 yrs
0.5	a. 0-4 yrs
11.0	c. 10-14 yrs
9.4	b. 5-9 yrs
10.5	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
11.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
0.2	a. 0-4 yrs
10.4	c. 10-14 yrs
8.1	b. 5-9 yrs
6.0	b. 5-9 yrs
1.7	a. 0-4 yrs
0.4	a. 0-4 yrs
10.1	c. 10-14 yrs

0.5	a. 0-4 yrs	
10.2	c. 10-14 yrs	
1.7	a. 0-4 yrs	
10.4	c. 10-14 yrs	
10.4	c. 10-14 yrs	
0.6	a. 0-4 yrs	
11.3	c. 10-14 yrs	
2.8	a. 0-4 yrs	
2.8	a. 0-4 yrs	
10.1	c. 10-14 yrs	
4.8	a. 0-4 yrs	
9.3	b. 5-9 yrs	
6.2	b. 5-9 yrs	
10.4	c. 10-14 yrs	
3.1	a. 0-4 yrs	
10.4	c. 10-14 yrs	
14.8	c. 10-14 yrs	
4.9	a. 0-4 yrs	
4.9	a. 0-4 yrs	
13.1	c. 10-14 yrs	
12.8	c. 10-14 yrs	
13.2	c. 10-14 yrs	
10.1	c. 10-14 yrs	
10.4	c. 10-14 yrs	
8.4	b. 5-9 yrs	
1.9	a. 0-4 yrs	
1.9	a. 0-4 yrs	Yes
5.8	b. 5-9 yrs	
5.8	b. 5-9 yrs	Yes
1.1	a. 0-4 yrs	
0.9	a. 0-4 yrs	
1.9	a. 0-4 yrs	
0.9	a. 0-4 yrs	Yes
1.2	a. 0-4 yrs	
1.2	a. 0-4 yrs	Yes
0.3	a. 0-4 yrs	
0.3	a. 0-4 yrs	Yes
5.3	b. 5-9 yrs	
5.3	b. 5-9 yrs	Yes
2.8	a. 0-4 yrs	
3.9	a. 0-4 yrs	Yes
2.9	a. 0-4 yrs	
2.9	a. 0-4 yrs	Yes
2.0	a. 0-4 yrs	
2.4	a. 0-4 yrs	
2.5	a. 0-4 yrs	
2.0	a. 0-4 yrs	Yes

1.8	a. 0-4 yrs	
1.7	a. 0-4 yrs	
1.4	a. 0-4 yrs	
1.7	a. 0-4 yrs	
1.4	a. 0-4 yrs	Yes
0.8	a. 0-4 yrs	
0.8	a. 0-4 yrs	
0.7	a. 0-4 yrs	
0.7	a. 0-4 yrs	Yes
9.5	b. 5-9 yrs	
8.8	b. 5-9 yrs	
8.6	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
7.3	b. 5-9 yrs	
8.8	b. 5-9 yrs	
8.8	b. 5-9 yrs	
8.8	b. 5-9 yrs	
3.9	a. 0-4 yrs	
8.8	b. 5-9 yrs	
9.5	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.5	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.5	b. 5-9 yrs	
3.9	a. 0-4 yrs	
9.5	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
8.6	b. 5-9 yrs	
9.1	b. 5-9 yrs	
3.1	a. 0-4 yrs	
9.5	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
9.1	b. 5-9 yrs	
8.8	b. 5-9 yrs	
9.1	b. 5-9 yrs	
1.1	a. 0-4 yrs	
1.0	a. 0-4 yrs	
9.8	b. 5-9 yrs	
7.6	b. 5-9 yrs	
8.8	b. 5-9 yrs	
9.1	b. 5-9 yrs	

9.5	b. 5-9 yrs
1.2	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
12.4	c. 10-14 yrs
3.6	a. 0-4 yrs
9.1	b. 5-9 yrs
No Install Date	No Install Date
7.3	b. 5-9 yrs
2.8	a. 0-4 yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
5.0	a. 0-4 yrs
5.0	a. 0-4 yrs
5.0	a. 0-4 yrs
4.9	a. 0-4 yrs
5.0	a. 0-4 yrs
5.0	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
13.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
10.3	c. 10-14 yrs
9.9	b. 5-9 yrs
9.9	b. 5-9 yrs
9.8	b. 5-9 yrs
9.9	b. 5-9 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
11.7	c. 10-14 yrs
No Install Date	No Install Date
15.9	d. 15-19 yrs
11.0	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
7.7	b. 5-9 yrs
6.3	b. 5-9 yrs
4.6	a. 0-4 yrs
3.1	a. 0-4 yrs
0.5	a. 0-4 yrs
3.3	a. 0-4 yrs
0.7	a. 0-4 yrs
1.5	a. 0-4 yrs
No Install Date	No Install Date
19.1	d. 15-19 yrs
19.4	d. 15-19 yrs
19.2	d. 15-19 yrs
19.5	d. 15-19 yrs
15.3	d. 15-19 yrs
19.5	d. 15-19 yrs
19.5	d. 15-19 yrs
19.2	d. 15-19 yrs
19.1	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
15.3	d. 15-19 yrs
14.5	c. 10-14 yrs
14.5	c. 10-14 yrs
15.6	d. 15-19 yrs
15.7	d. 15-19 yrs
15.7	d. 15-19 yrs
15.3	d. 15-19 yrs
1.8	a. 0-4 yrs
14.9	c. 10-14 yrs
14.8	c. 10-14 yrs

15.1	d. 15-19 yrs
15.2	d. 15-19 yrs
15.0	d. 15-19 yrs
14.9	c. 10-14 yrs
15.1	d. 15-19 yrs
15.3	d. 15-19 yrs
14.7	c. 10-14 yrs
14.3	c. 10-14 yrs
14.3	c. 10-14 yrs
14.4	c. 10-14 yrs
14.4	c. 10-14 yrs
13.8	c. 10-14 yrs
14.8	c. 10-14 yrs
14.5	c. 10-14 yrs
14.8	c. 10-14 yrs
13.4	c. 10-14 yrs
14.0	c. 10-14 yrs
14.0	c. 10-14 yrs
14.1	c. 10-14 yrs
13.4	c. 10-14 yrs
13.4	c. 10-14 yrs
13.4	c. 10-14 yrs
13.5	c. 10-14 yrs
13.4	c. 10-14 yrs
8.3	b. 5-9 yrs
14.1	c. 10-14 yrs
5.0	a. 0-4 yrs
13.3	c. 10-14 yrs
13.2	c. 10-14 yrs
13.3	c. 10-14 yrs
13.3	c. 10-14 yrs
2.9	a. 0-4 yrs
13.0	c. 10-14 yrs
13.1	c. 10-14 yrs
12.8	c. 10-14 yrs
12.9	c. 10-14 yrs
13.0	c. 10-14 yrs
12.7	c. 10-14 yrs
12.8	c. 10-14 yrs
12.2	c. 10-14 yrs
12.5	c. 10-14 yrs
12.8	c. 10-14 yrs
12.2	c. 10-14 yrs
No Install Date	No Install Date
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26.4	e. 20+ yrs
No Install Date	No Install Date
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26.3	e. 20+ yrs
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3.7	a. 0-4 yrs
No Install Date	No Install Date
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26.9	e. 20+ yrs
No Install Date	No Install Date
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23.7	e. 20+ yrs
No Install Date	No Install Date
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11.0	c. 10-14 yrs
No Install Date	No Install Date
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No Install Date	No Install Date
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No Install Date	No Install Date
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2.0	a. 0-4 yrs
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
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22.9	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date

No Install Date	No Install Date
15.9	d. 15-19 yrs
No Install Date	No Install Date
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20.4	e. 20+ yrs
No Install Date	No Install Date
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No Install Date	No Install Date
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20.6	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
9.3	b. 5-9 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date

26.4	e. 20+ yrs
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
No Install Date	No Install Date
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
1.2	a. 0-4 yrs
2.0	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.7	a. 0-4 yrs
1.8	a. 0-4 yrs
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.7	a. 0-4 yrs
1.8	a. 0-4 yrs
1.7	a. 0-4 yrs

1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
9.7	b. 5-9 yrs
9.7	b. 5-9 yrs
9.9	b. 5-9 yrs
9.7	b. 5-9 yrs
9.6	b. 5-9 yrs
9.6	b. 5-9 yrs
9.5	b. 5-9 yrs
9.5	b. 5-9 yrs
9.5	b. 5-9 yrs
9.6	b. 5-9 yrs
8.6	b. 5-9 yrs
8.6	b. 5-9 yrs
8.7	b. 5-9 yrs
8.7	b. 5-9 yrs
8.8	b. 5-9 yrs
9.6	b. 5-9 yrs
9.5	b. 5-9 yrs
9.5	b. 5-9 yrs
9.5	b. 5-9 yrs
9.5	b. 5-9 yrs
9.4	b. 5-9 yrs
9.4	b. 5-9 yrs
9.4	b. 5-9 yrs
9.4	b. 5-9 yrs
9.3	b. 5-9 yrs
8.5	b. 5-9 yrs
7.6	b. 5-9 yrs
7.6	b. 5-9 yrs
8.6	b. 5-9 yrs
8.4	b. 5-9 yrs
8.8	b. 5-9 yrs
7.0	b. 5-9 yrs
8.9	b. 5-9 yrs
8.2	b. 5-9 yrs
8.2	b. 5-9 yrs
8.2	b. 5-9 yrs
7.2	b. 5-9 yrs
7.2	b. 5-9 yrs
8.2	b. 5-9 yrs
8.2	b. 5-9 yrs
8.2	b. 5-9 yrs
9.4	b. 5-9 yrs
9.4	b. 5-9 yrs
9.4	b. 5-9 yrs

9.4	b. 5-9 yrs
9.4	b. 5-9 yrs
8.1	b. 5-9 yrs
8.1	b. 5-9 yrs
9.0	b. 5-9 yrs
9.0	b. 5-9 yrs
8.9	b. 5-9 yrs
7.1	b. 5-9 yrs
8.0	b. 5-9 yrs
8.9	b. 5-9 yrs
8.3	b. 5-9 yrs
8.1	b. 5-9 yrs
8.3	b. 5-9 yrs
8.3	b. 5-9 yrs
9.3	b. 5-9 yrs
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9.0	b. 5-9 yrs
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8.6	b. 5-9 yrs
8.7	b. 5-9 yrs
7.6	b. 5-9 yrs
7.8	b. 5-9 yrs
5.9	b. 5-9 yrs
7.7	b. 5-9 yrs
8.1	b. 5-9 yrs
8.3	b. 5-9 yrs
7.2	b. 5-9 yrs
7.7	b. 5-9 yrs
8.0	b. 5-9 yrs
7.6	b. 5-9 yrs
8.5	b. 5-9 yrs
8.6	b. 5-9 yrs
8.0	b. 5-9 yrs
8.0	b. 5-9 yrs

8.1	b. 5-9 yrs
11.6	c. 10-14 yrs
7.6	b. 5-9 yrs
7.6	b. 5-9 yrs
7.7	b. 5-9 yrs
7.4	b. 5-9 yrs
7.6	b. 5-9 yrs
7.6	b. 5-9 yrs
6.2	b. 5-9 yrs
7.6	b. 5-9 yrs
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7.3	b. 5-9 yrs
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7.7	b. 5-9 yrs
1.3	a. 0-4 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
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7.1	b. 5-9 yrs
7.5	b. 5-9 yrs
7.3	b. 5-9 yrs
7.6	b. 5-9 yrs
7.3	b. 5-9 yrs
7.1	b. 5-9 yrs
7.1	b. 5-9 yrs
7.1	b. 5-9 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
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7.7	b. 5-9 yrs

4.3	a. 0-4 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
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7.7	b. 5-9 yrs
7.7	b. 5-9 yrs
7.4	b. 5-9 yrs
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7.7	b. 5-9 yrs
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7.6	b. 5-9 yrs
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6.2	b. 5-9 yrs
7.6	b. 5-9 yrs
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7.5	b. 5-9 yrs
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6.3	b. 5-9 yrs
7.6	b. 5-9 yrs
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7.5	b. 5-9 yrs
7.5	b. 5-9 yrs
7.5	b. 5-9 yrs
7.4	b. 5-9 yrs
7.4	b. 5-9 yrs
7.2	b. 5-9 yrs
7.3	b. 5-9 yrs
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7.3	b. 5-9 yrs
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7.2	b. 5-9 yrs
7.3	b. 5-9 yrs
7.4	b. 5-9 yrs
7.5	b. 5-9 yrs
7.4	b. 5-9 yrs
7.4	b. 5-9 yrs
7.4	b. 5-9 yrs
5.3	b. 5-9 yrs
3.7	a. 0-4 yrs
7.0	b. 5-9 yrs
7.0	b. 5-9 yrs
7.0	b. 5-9 yrs
7.0	b. 5-9 yrs
7.0	b. 5-9 yrs
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7.0	b. 5-9 yrs

6.9	b. 5-9 yrs
6.9	b. 5-9 yrs
6.8	b. 5-9 yrs
6.8	b. 5-9 yrs
6.8	b. 5-9 yrs
5.3	b. 5-9 yrs
4.8	a. 0-4 yrs
6.7	b. 5-9 yrs
6.2	b. 5-9 yrs
6.3	b. 5-9 yrs
5.7	b. 5-9 yrs
6.1	b. 5-9 yrs
5.8	b. 5-9 yrs
5.9	b. 5-9 yrs
6.0	b. 5-9 yrs
5.7	b. 5-9 yrs
5.7	b. 5-9 yrs
5.7	b. 5-9 yrs
5.3	b. 5-9 yrs
5.4	b. 5-9 yrs
5.4	b. 5-9 yrs
5.3	b. 5-9 yrs
5.4	b. 5-9 yrs
5.5	b. 5-9 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
5.5	b. 5-9 yrs
5.5	b. 5-9 yrs
5.2	b. 5-9 yrs
5.5	b. 5-9 yrs
5.5	b. 5-9 yrs
5.5	b. 5-9 yrs
4.8	a. 0-4 yrs
5.0	a. 0-4 yrs
5.2	b. 5-9 yrs
5.2	b. 5-9 yrs
5.2	b. 5-9 yrs
5.1	b. 5-9 yrs
4.9	a. 0-4 yrs
5.0	a. 0-4 yrs
5.0	a. 0-4 yrs
4.6	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs

4.6	a. 0-4 yrs
4.7	a. 0-4 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
5.1	b. 5-9 yrs
4.8	a. 0-4 yrs
3.6	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.9	a. 0-4 yrs
4.9	a. 0-4 yrs
4.8	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
5.0	a. 0-4 yrs
4.9	a. 0-4 yrs
4.6	a. 0-4 yrs
4.9	a. 0-4 yrs
4.9	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
2.3	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.8	a. 0-4 yrs
4.8	a. 0-4 yrs
4.8	a. 0-4 yrs
4.9	a. 0-4 yrs
4.9	a. 0-4 yrs
10.0	c. 10-14 yrs
10.1	c. 10-14 yrs
9.9	b. 5-9 yrs
9.6	b. 5-9 yrs
0.7	a. 0-4 yrs
9.7	b. 5-9 yrs
9.7	b. 5-9 yrs
No Install Date	No Install Date
No Install Date	No Install Date
20.6	e. 20+ yrs
20.9	e. 20+ yrs
No Install Date	No Install Date
21.6	e. 20+ yrs
21.0	e. 20+ yrs

20.9	e. 20+ yrs
15.6	d. 15-19 yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.3	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
18.4	d. 15-19 yrs
20.9	e. 20+ yrs
20.9	e. 20+ yrs
20.8	e. 20+ yrs
20.8	e. 20+ yrs
20.6	e. 20+ yrs
20.7	e. 20+ yrs
24.5	e. 20+ yrs
20.8	e. 20+ yrs
No Install Date	No Install Date
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs

4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.4	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.4	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.6	a. 0-4 yrs
4.7	a. 0-4 yrs
4.6	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.7	a. 0-4 yrs
4.6	a. 0-4 yrs
20.4	e. 20+ yrs
19.6	d. 15-19 yrs
No Install Date	No Install Date
19.2	d. 15-19 yrs
20.6	e. 20+ yrs
20.5	e. 20+ yrs
20.6	e. 20+ yrs

19.9	d. 15-19 yrs
3.7	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.6	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.8	a. 0-4 yrs
3.9	a. 0-4 yrs
3.9	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.6	a. 0-4 yrs
3.7	a. 0-4 yrs
3.7	a. 0-4 yrs
3.1	a. 0-4 yrs
3.0	a. 0-4 yrs
3.1	a. 0-4 yrs
3.1	a. 0-4 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.6	a. 0-4 yrs
3.5	a. 0-4 yrs
3.4	a. 0-4 yrs
3.5	a. 0-4 yrs
3.4	a. 0-4 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
3.5	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs

4.1	a. 0-4 yrs
3.0	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
3.1	a. 0-4 yrs
3.1	a. 0-4 yrs
13.4	c. 10-14 yrs
20.2	e. 20+ yrs
20.2	e. 20+ yrs
20.2	e. 20+ yrs
20.0	e. 20+ yrs
20.1	e. 20+ yrs
20.1	e. 20+ yrs
20.3	e. 20+ yrs
19.9	d. 15-19 yrs
12.2	c. 10-14 yrs
20.1	e. 20+ yrs
20.3	e. 20+ yrs
20.0	e. 20+ yrs
13.5	c. 10-14 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.9	a. 0-4 yrs
3.7	a. 0-4 yrs
4.0	a. 0-4 yrs
3.8	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
3.8	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs
1.6	a. 0-4 yrs
3.1	a. 0-4 yrs
3.2	a. 0-4 yrs
3.3	a. 0-4 yrs
3.2	a. 0-4 yrs
3.9	a. 0-4 yrs
3.9	a. 0-4 yrs
2.9	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
3.9	a. 0-4 yrs

4.0	a. 0-4 yrs
1.9	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
18.0	d. 15-19 yrs
19.8	d. 15-19 yrs
19.4	d. 15-19 yrs
19.4	d. 15-19 yrs
19.8	d. 15-19 yrs
19.9	d. 15-19 yrs
4.6	a. 0-4 yrs
4.6	a. 0-4 yrs
4.6	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs
4.0	a. 0-4 yrs
4.1	a. 0-4 yrs
4.1	a. 0-4 yrs
3.8	a. 0-4 yrs
4.0	a. 0-4 yrs
4.1	a. 0-4 yrs
4.0	a. 0-4 yrs
4.3	a. 0-4 yrs
4.4	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.1	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.6	a. 0-4 yrs
4.5	a. 0-4 yrs
4.5	a. 0-4 yrs
4.5	a. 0-4 yrs
4.6	a. 0-4 yrs
4.5	a. 0-4 yrs
4.5	a. 0-4 yrs
4.4	a. 0-4 yrs
4.4	a. 0-4 yrs
4.4	a. 0-4 yrs
4.6	a. 0-4 yrs
4.6	a. 0-4 yrs

4.6	a. 0-4 yrs
4.6	a. 0-4 yrs
4.4	a. 0-4 yrs
4.4	a. 0-4 yrs
4.4	a. 0-4 yrs
4.3	a. 0-4 yrs
4.5	a. 0-4 yrs
4.5	a. 0-4 yrs
4.4	a. 0-4 yrs
4.4	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.3	a. 0-4 yrs
4.6	a. 0-4 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
4.2	a. 0-4 yrs
4.1	a. 0-4 yrs
3.9	a. 0-4 yrs
3.9	a. 0-4 yrs
3.9	a. 0-4 yrs
3.2	a. 0-4 yrs
3.1	a. 0-4 yrs
3.1	a. 0-4 yrs
3.2	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
4.0	a. 0-4 yrs
3.0	a. 0-4 yrs
3.1	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
0.1	a. 0-4 yrs
3.3	a. 0-4 yrs
3.2	a. 0-4 yrs
3.1	a. 0-4 yrs
3.2	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.6	a. 0-4 yrs

2.5	a. 0-4 yrs
2.6	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.5	a. 0-4 yrs
1.9	a. 0-4 yrs
3.2	a. 0-4 yrs
3.4	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.2	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.1	a. 0-4 yrs
3.3	a. 0-4 yrs
3.2	a. 0-4 yrs
3.2	a. 0-4 yrs
3.3	a. 0-4 yrs
3.2	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
2.9	a. 0-4 yrs
3.3	a. 0-4 yrs
3.5	a. 0-4 yrs
3.6	a. 0-4 yrs
3.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.6	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.8	a. 0-4 yrs
3.7	a. 0-4 yrs
3.8	a. 0-4 yrs
3.1	a. 0-4 yrs
3.1	a. 0-4 yrs
3.1	a. 0-4 yrs
2.4	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.7	a. 0-4 yrs

2.8	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.7	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.8	a. 0-4 yrs
3.0	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
3.0	a. 0-4 yrs
2.8	a. 0-4 yrs
2.9	a. 0-4 yrs
2.8	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.9	a. 0-4 yrs
2.2	a. 0-4 yrs
No Install Date	No Install Date
2.0	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
1.9	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.4	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
2.5	a. 0-4 yrs
3.3	a. 0-4 yrs
3.4	a. 0-4 yrs

3.3	a. 0-4 yrs
3.3	a. 0-4 yrs
1.5	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.7	a. 0-4 yrs
0.9	a. 0-4 yrs
0.9	a. 0-4 yrs
0.8	a. 0-4 yrs
0.9	a. 0-4 yrs
0.8	a. 0-4 yrs
0.9	a. 0-4 yrs
0.9	a. 0-4 yrs
0.5	a. 0-4 yrs
0.9	a. 0-4 yrs
0.5	a. 0-4 yrs
0.9	a. 0-4 yrs
0.7	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.4	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.4	a. 0-4 yrs
0.4	a. 0-4 yrs
0.4	a. 0-4 yrs

0.4	a. 0-4 yrs
0.4	a. 0-4 yrs
0.7	a. 0-4 yrs
1.0	a. 0-4 yrs
1.0	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
1.0	a. 0-4 yrs
1.0	a. 0-4 yrs
0.8	a. 0-4 yrs
1.0	a. 0-4 yrs
1.3	a. 0-4 yrs
1.2	a. 0-4 yrs
1.4	a. 0-4 yrs
1.4	a. 0-4 yrs
1.4	a. 0-4 yrs
0.6	a. 0-4 yrs
1.3	a. 0-4 yrs
1.2	a. 0-4 yrs
1.3	a. 0-4 yrs
1.4	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.4	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.3	a. 0-4 yrs
1.4	a. 0-4 yrs
1.1	a. 0-4 yrs
0.6	a. 0-4 yrs
1.2	a. 0-4 yrs
0.7	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.7	a. 0-4 yrs
1.0	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
1.4	a. 0-4 yrs
1.4	a. 0-4 yrs
1.4	a. 0-4 yrs
1.4	a. 0-4 yrs
1.3	a. 0-4 yrs
1.5	a. 0-4 yrs
1.4	a. 0-4 yrs
1.5	a. 0-4 yrs

1.5	a. 0-4 yrs
1.4	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.1	a. 0-4 yrs
1.0	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.0	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.3	a. 0-4 yrs
0.7	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.1	a. 0-4 yrs
1.5	a. 0-4 yrs
1.3	a. 0-4 yrs
1.1	a. 0-4 yrs
1.2	a. 0-4 yrs
1.4	a. 0-4 yrs
0.7	a. 0-4 yrs
1.5	a. 0-4 yrs
0.8	a. 0-4 yrs
1.0	a. 0-4 yrs

0.9	a. 0-4 yrs
0.9	a. 0-4 yrs
0.9	a. 0-4 yrs
1.0	a. 0-4 yrs
0.9	a. 0-4 yrs
0.9	a. 0-4 yrs
0.8	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
0.7	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.3	a. 0-4 yrs
1.1	a. 0-4 yrs
1.0	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
0.7	a. 0-4 yrs
1.0	a. 0-4 yrs
0.9	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
0.6	a. 0-4 yrs

0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.4	a. 0-4 yrs
0.5	a. 0-4 yrs
0.9	a. 0-4 yrs
0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
1.0	a. 0-4 yrs
0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.5	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.5	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.6	a. 0-4 yrs
1.5	a. 0-4 yrs
1.0	a. 0-4 yrs
0.7	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.8	a. 0-4 yrs
0.9	a. 0-4 yrs
0.8	a. 0-4 yrs
0.7	a. 0-4 yrs
0.9	a. 0-4 yrs
0.7	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs

1.1	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.1	a. 0-4 yrs
1.2	a. 0-4 yrs
1.1	a. 0-4 yrs
1.2	a. 0-4 yrs
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1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.2	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.1	a. 0-4 yrs
1.2	a. 0-4 yrs
1.1	a. 0-4 yrs
1.2	a. 0-4 yrs
0.1	a. 0-4 yrs
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0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.1	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.2	a. 0-4 yrs
0.5	a. 0-4 yrs
0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
0.4	a. 0-4 yrs
0.5	a. 0-4 yrs
0.3	a. 0-4 yrs
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0.5	a. 0-4 yrs
0.3	a. 0-4 yrs

0.1	a. 0-4 yrs
0.3	a. 0-4 yrs
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0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
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0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
0.6	a. 0-4 yrs
0.4	a. 0-4 yrs
0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
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0.5	a. 0-4 yrs
0.5	a. 0-4 yrs
0.4	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.6	a. 0-4 yrs
0.7	a. 0-4 yrs
0.2	a. 0-4 yrs
0.4	a. 0-4 yrs
0.4	a. 0-4 yrs
0.2	a. 0-4 yrs
0.3	a. 0-4 yrs
0.3	a. 0-4 yrs
0.4	a. 0-4 yrs
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0.4	a. 0-4 yrs
0.4	a. 0-4 yrs
0.3	a. 0-4 yrs
0.4	a. 0-4 yrs
0.9	a. 0-4 yrs
0.8	a. 0-4 yrs
21.9	e. 20+ yrs

23.0	e. 20+ yrs
18.0	d. 15-19 yrs
24.8	e. 20+ yrs
No Install Date	No Install Date
23.6	e. 20+ yrs
24.8	e. 20+ yrs
24.8	e. 20+ yrs
24.6	e. 20+ yrs
20.4	e. 20+ yrs
24.5	e. 20+ yrs
24.5	e. 20+ yrs
23.3	e. 20+ yrs
23.6	e. 20+ yrs
23.2	e. 20+ yrs
17.0	d. 15-19 yrs
1.8	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.9	a. 0-4 yrs
1.8	a. 0-4 yrs
2.0	a. 0-4 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
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16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.6	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
5.8	b. 5-9 yrs
1.7	a. 0-4 yrs
13.0	c. 10-14 yrs
23.5	e. 20+ yrs
23.2	e. 20+ yrs
No Install Date	No Install Date
23.0	e. 20+ yrs
22.1	e. 20+ yrs
21.5	e. 20+ yrs
22.7	e. 20+ yrs
No Install Date	No Install Date

24.0	e. 20+ yrs
22.3	e. 20+ yrs
24.6	e. 20+ yrs
22.5	e. 20+ yrs
25.8	e. 20+ yrs
No Install Date	No Install Date
22.3	e. 20+ yrs
22.1	e. 20+ yrs
22.1	e. 20+ yrs
22.4	e. 20+ yrs
22.3	e. 20+ yrs
No Install Date	No Install Date
22.8	e. 20+ yrs
No Install Date	No Install Date
21.8	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
21.3	e. 20+ yrs
21.7	e. 20+ yrs
20.9	e. 20+ yrs
21.2	e. 20+ yrs
21.3	e. 20+ yrs
21.4	e. 20+ yrs
20.9	e. 20+ yrs
18.9	d. 15-19 yrs
18.8	d. 15-19 yrs
19.0	d. 15-19 yrs
19.1	d. 15-19 yrs
18.2	d. 15-19 yrs
19.1	d. 15-19 yrs
13.4	c. 10-14 yrs
18.0	d. 15-19 yrs
18.0	d. 15-19 yrs
18.5	d. 15-19 yrs
18.1	d. 15-19 yrs
18.5	d. 15-19 yrs
18.7	d. 15-19 yrs
13.4	c. 10-14 yrs
18.7	d. 15-19 yrs
18.4	d. 15-19 yrs
17.9	d. 15-19 yrs
18.0	d. 15-19 yrs
16.6	d. 15-19 yrs
18.2	d. 15-19 yrs
17.8	d. 15-19 yrs
18.1	d. 15-19 yrs
17.8	d. 15-19 yrs

17.6	d. 15-19 yrs
10.9	c. 10-14 yrs
17.5	d. 15-19 yrs
17.8	d. 15-19 yrs
17.5	d. 15-19 yrs
17.8	d. 15-19 yrs
17.5	d. 15-19 yrs
17.8	d. 15-19 yrs
17.7	d. 15-19 yrs
17.5	d. 15-19 yrs
17.5	d. 15-19 yrs
17.2	d. 15-19 yrs
No Install Date	No Install Date
16.9	d. 15-19 yrs
17.4	d. 15-19 yrs
16.8	d. 15-19 yrs
16.7	d. 15-19 yrs
16.4	d. 15-19 yrs
16.6	d. 15-19 yrs
10.2	c. 10-14 yrs
16.8	d. 15-19 yrs
3.2	a. 0-4 yrs
16.2	d. 15-19 yrs
5.1	b. 5-9 yrs
16.3	d. 15-19 yrs
16.3	d. 15-19 yrs
No Install Date	No Install Date
12.5	c. 10-14 yrs
12.7	c. 10-14 yrs
12.0	c. 10-14 yrs
12.4	c. 10-14 yrs
12.6	c. 10-14 yrs
12.5	c. 10-14 yrs
12.4	c. 10-14 yrs
12.4	c. 10-14 yrs
12.5	c. 10-14 yrs
No Install Date	No Install Date
12.7	c. 10-14 yrs
12.7	c. 10-14 yrs
12.7	c. 10-14 yrs
11.8	c. 10-14 yrs
11.8	c. 10-14 yrs
12.0	c. 10-14 yrs
12.0	c. 10-14 yrs
11.8	c. 10-14 yrs
12.3	c. 10-14 yrs
12.1	c. 10-14 yrs

12.1	c. 10-14 yrs
12.1	c. 10-14 yrs
20.0	d. 15-19 yrs
11.3	c. 10-14 yrs
11.7	c. 10-14 yrs
11.3	c. 10-14 yrs
11.0	c. 10-14 yrs
11.0	c. 10-14 yrs
10.9	c. 10-14 yrs
11.0	c. 10-14 yrs
11.0	c. 10-14 yrs
11.1	c. 10-14 yrs
10.7	c. 10-14 yrs
10.7	c. 10-14 yrs
10.7	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
10.0	b. 5-9 yrs
10.0	b. 5-9 yrs
10.0	b. 5-9 yrs
10.0	b. 5-9 yrs
9.9	b. 5-9 yrs
10.0	b. 5-9 yrs
9.9	b. 5-9 yrs
9.8	b. 5-9 yrs
9.6	b. 5-9 yrs
9.9	b. 5-9 yrs
23.6	e. 20+ yrs
No Install Date	No Install Date
22.8	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
24.1	e. 20+ yrs
20.7	e. 20+ yrs
No Install Date	No Install Date
23.8	e. 20+ yrs
23.8	e. 20+ yrs
22.4	e. 20+ yrs
23.9	e. 20+ yrs
24.0	e. 20+ yrs
21.5	e. 20+ yrs
24.1	e. 20+ yrs

24.9	e. 20+ yrs
22.4	e. 20+ yrs
22.0	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
22.8	e. 20+ yrs
20.7	e. 20+ yrs
23.1	e. 20+ yrs
22.1	e. 20+ yrs
22.1	e. 20+ yrs
21.7	e. 20+ yrs
No Install Date	No Install Date
24.9	e. 20+ yrs
25.5	e. 20+ yrs
No Install Date	No Install Date
24.4	e. 20+ yrs
22.8	e. 20+ yrs
22.5	e. 20+ yrs
No Install Date	No Install Date
24.5	e. 20+ yrs
22.0	e. 20+ yrs
26.7	e. 20+ yrs
22.9	e. 20+ yrs
24.0	e. 20+ yrs
24.0	e. 20+ yrs
20.7	e. 20+ yrs
7.6	b. 5-9 yrs
5.0	a. 0-4 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.1	c. 10-14 yrs
10.0	c. 10-14 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.8	a. 0-4 yrs
2.4	a. 0-4 yrs

2.4	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.8	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.8	a. 0-4 yrs
2.5	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.7	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.7	a. 0-4 yrs
2.7	a. 0-4 yrs
2.2	a. 0-4 yrs
2.2	a. 0-4 yrs
2.2	a. 0-4 yrs
2.2	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.4	a. 0-4 yrs
2.4	a. 0-4 yrs
1.6	a. 0-4 yrs
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.7	a. 0-4 yrs
1.1	a. 0-4 yrs
1.6	a. 0-4 yrs
2.1	a. 0-4 yrs
2.0	a. 0-4 yrs
2.1	a. 0-4 yrs
2.1	a. 0-4 yrs
0.3	a. 0-4 yrs
2.2	a. 0-4 yrs
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2.2	a. 0-4 yrs
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2.1	a. 0-4 yrs
2.1	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
2.1	a. 0-4 yrs
2.2	a. 0-4 yrs
2.2	a. 0-4 yrs
2.0	a. 0-4 yrs
2.2	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
1.8	a. 0-4 yrs
1.7	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.8	a. 0-4 yrs
1.9	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
1.9	a. 0-4 yrs
1.8	a. 0-4 yrs
1.8	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
1.9	a. 0-4 yrs
2.2	a. 0-4 yrs
2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.2	a. 0-4 yrs
2.3	a. 0-4 yrs
2.0	a. 0-4 yrs
2.0	a. 0-4 yrs
1.9	a. 0-4 yrs
2.0	a. 0-4 yrs
1.9	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs
2.5	a. 0-4 yrs

2.3	a. 0-4 yrs
2.3	a. 0-4 yrs
2.4	a. 0-4 yrs
2.4	a. 0-4 yrs
2.4	a. 0-4 yrs
2.5	a. 0-4 yrs
2.1	a. 0-4 yrs
1.0	a. 0-4 yrs
1.0	a. 0-4 yrs
0.2	a. 0-4 yrs
0.4	a. 0-4 yrs
16.8	d. 15-19 yrs
6.2	b. 5-9 yrs
No Install Date	No Install Date
24.1	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
16.4	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
20.3	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
24.1	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
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11.3	c. 10-14 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
19.2	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
10.3	c. 10-14 yrs
7.2	b. 5-9 yrs
No Install Date	No Install Date
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12.5	c. 10-14 yrs
No Install Date	No Install Date
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24.8	e. 20+ yrs
No Install Date	No Install Date
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13.9	c. 10-14 yrs
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
27.0	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
22.8	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
12.2	c. 10-14 yrs
No Install Date	No Install Date
25.4	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
1.1	a. 0-4 yrs
No Install Date	No Install Date
20.9	e. 20+ yrs
20.9	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
15.9	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
18.0	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
17.8	d. 15-19 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
27.0	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
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No Install Date	No Install Date
No Install Date	No Install Date
26.0	e. 20+ yrs
25.6	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
22.2	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
26.8	e. 20+ yrs
No Install Date	No Install Date
27.0	e. 20+ yrs
26.7	e. 20+ yrs
No Install Date	No Install Date
26.9	e. 20+ yrs
6.3	b. 5-9 yrs
17.9	d. 15-19 yrs
26.0	e. 20+ yrs
21.1	e. 20+ yrs
23.5	e. 20+ yrs
25.6	e. 20+ yrs
24.4	e. 20+ yrs
26.2	e. 20+ yrs
26.2	e. 20+ yrs
25.7	e. 20+ yrs
No Install Date	No Install Date
No Install Date	No Install Date
26.2	e. 20+ yrs
24.3	e. 20+ yrs
No Install Date	No Install Date
26.0	e. 20+ yrs
25.3	e. 20+ yrs

25.0	e. 20+ yrs
24.9	e. 20+ yrs
25.2	e. 20+ yrs
22.4	e. 20+ yrs
23.2	e. 20+ yrs
25.2	e. 20+ yrs
21.3	e. 20+ yrs
No Install Date	No Install Date
24.6	e. 20+ yrs
24.9	e. 20+ yrs
25.2	e. 20+ yrs
8.8	b. 5-9 yrs
9.1	b. 5-9 yrs
10.1	c. 10-14 yrs
9.1	b. 5-9 yrs
10.9	c. 10-14 yrs
10.3	c. 10-14 yrs
9.1	b. 5-9 yrs
2.1	a. 0-4 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
2.1	a. 0-4 yrs
9.5	b. 5-9 yrs
9.1	b. 5-9 yrs
8.4	b. 5-9 yrs
5.3	b. 5-9 yrs
9.1	b. 5-9 yrs
9.5	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
8.5	b. 5-9 yrs
9.1	b. 5-9 yrs
5.7	b. 5-9 yrs
10.5	c. 10-14 yrs
9.1	b. 5-9 yrs
1.8	a. 0-4 yrs
5.0	b. 5-9 yrs
5.1	b. 5-9 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
0.9	a. 0-4 yrs
2.4	a. 0-4 yrs
3.9	a. 0-4 yrs
9.5	b. 5-9 yrs
0.1	a. 0-4 yrs
10.9	c. 10-14 yrs

9.1	b. 5-9 yrs
2.1	a. 0-4 yrs
9.0	b. 5-9 yrs
7.2	b. 5-9 yrs
7.6	b. 5-9 yrs
9.1	b. 5-9 yrs
6.6	b. 5-9 yrs
9.5	b. 5-9 yrs
9.1	b. 5-9 yrs
12.9	c. 10-14 yrs
12.7	c. 10-14 yrs
4.5	a. 0-4 yrs
9.1	b. 5-9 yrs
0.7	a. 0-4 yrs
9.1	b. 5-9 yrs
4.7	a. 0-4 yrs
3.5	a. 0-4 yrs
19.4	d. 15-19 yrs
8.9	b. 5-9 yrs
11.2	c. 10-14 yrs
10.0	c. 10-14 yrs
10.3	c. 10-14 yrs
3.1	a. 0-4 yrs
4.5	a. 0-4 yrs
9.1	b. 5-9 yrs
7.9	b. 5-9 yrs
10.0	c. 10-14 yrs
10.4	c. 10-14 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
2.3	a. 0-4 yrs
10.4	c. 10-14 yrs
2.3	a. 0-4 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
16.8	d. 15-19 yrs
10.4	c. 10-14 yrs
10.2	c. 10-14 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
15.3	d. 15-19 yrs
10.2	c. 10-14 yrs
10.2	c. 10-14 yrs
14.5	c. 10-14 yrs

No Install Date	No Install Date
7.0	b. 5-9 yrs
10.4	c. 10-14 yrs
10.0	c. 10-14 yrs
10.2	c. 10-14 yrs
9.1	b. 5-9 yrs
10.0	c. 10-14 yrs
9.0	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
10.4	c. 10-14 yrs
9.1	b. 5-9 yrs
15.3	d. 15-19 yrs
4.7	a. 0-4 yrs
2.4	a. 0-4 yrs
No Install Date	No Install Date
No Install Date	No Install Date
No Install Date	No Install Date
26.9	e. 20+ yrs
No Install Date	No Install Date

Exhibit B – Wauchula AMI RFP Technical Response Template

PREPARED FOR

City of Wauchula

DATE

July 8, 2024

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1 COVER LETTER

Core & Main is pleased to submit our proposal in response to the City of Wauchula's RFP 24-05 Advanced Metering Infrastructure (AMI) Implementation. Core & Main has a long history of providing high quality products to the City of Wauchula and is we are enthusiastic about the opportunity to assist the City in deploying a successful, cost-effective AMI program and enhancing its utility management capabilities. Throughout the proposal, we believe the City of Mount Dora will see that **Core & Main fully understands the goals of Mount Dora** in this AMI program.

Solution built right for the City of Wauchula: Core & Main sees the value in building the best team for our customers and we have included best-in-class partners, Sensus, Bermex, VertexOne, Valerin Group, and WeProject, to be part of our solution for the City of Wauchula.

Sensus FlexNet Communication Network: Our proposed solution leverages the Sensus FlexNet communication network, a proven system that ensures reliable and secure data transmission. The FlexNet network is designed for efficiency and resilience, providing a robust backbone for the City's AMI system, and ensuring minimal operational disruption. Unlike cellular or third-party networks, FlexNet is dedicated to the purpose of Utility communications, such as reading meter endpoints as is its primary task. Each time the FlexNet system has been improved, backward compatibility of the endpoint has been maintained.

Smart Utility Network: Only FlexNet provides utilities across the Country with the flexibility to communicate and control many third-party devices. This ability will allow FlexNet to be the backbone of a Smart Utility platform Mount Dora can use for many current and future needs. FlexNet, bundled with the CORE+ suite of solutions, will provide the ability to adopt many Smart Applications for the utility's water, wastewater, stormwater, and gas distribution systems.

Industry-Leading Metrology: We offer industry-leading metrology that includes solid-state technology, supporting precise and reliable measurements. Our solution also features remote connect/disconnect capabilities, which enhance operational efficiency by reducing the need for manual interventions in service management.

Cost-Effective Dual-port Endpoint Modules: A key feature is the integration of dual-port endpoint modules, delivering substantial savings by eliminating the need for multiple units in dual water service configurations. With a 20-year battery life, these modules also offer long-term reliability, reducing maintenance costs and providing sustained operational stability.

Software and Network as a Service: Our solution includes both Software as a Service (SaaS) and Network as a Service (NaaS) models. The SaaS model offers continuous updates and enhancements, ensuring that the City benefits from the latest advancements in AMI technology without the burden of significant capital expenditures. The NaaS model provides an all-inclusive AMI offering with ongoing managed services with the technology provider.

Scalability and Real-Time Data Collection: Our solution is built with scalability in mind, allowing for seamless expansion as the City's needs grow. The system provides real-time data collection, which

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enhances operational efficiency, allows for proactive issue resolution, and improves customer service through timely and accurate billing information.

Experienced Local Team and Expedited Deployment: Core & Main prides itself on a team with extensive experience in AMI deployments. We are committed to meeting the City's timeline and delivering a fully functional AMI solution. Core & Main is showing our commitment to The City of Wauchula with 18 stocking branch locations in the state of Florida. Our primary servicing branch for Wauchula is located nearby in Lakeland.

In conclusion, Core & Main is well-equipped to provide a state-of-the-art AMI solution that offers robust communication capabilities, industry-leading metrology, and comprehensive service models. Our proposal ensures long-term value through advanced technology, operational efficiency, and exceptional customer service.

We appreciate the opportunity to submit this proposal and look forward to the possibility of working with the City of Wauchula to achieve its AMI goals.

Payton Duncan, Smart Utility Specialist, will be the primary contact throughout the proposal evaluation and next steps:

Payton Duncan
Smart Utility Specialist
Payton.Duncan@coreandmain.com
M: 386-473-2165

Best regards,



David Bryant

District Manager
Core & Main LP

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2 PROPOSER OVERVIEW AND PROJECT PERSONNEL

2.1 Company Information

Proposer information: Please fill in the table(s) below.

Table 2-1. Company Information

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
6.1.1	Proposer Co. Name			Core & Main, LP
6.1.2	Office Address			3216 Winter Lake Rd Bays 5 – 10, Lakeland, FL 33803
6.1.3	Contact Name			Payton Duncan
6.1.4	Contact Title			Smart Utility Specialist
6.1.5	Contact email			Payton.Duncan@coreandmain.com
6.1.6	Contact Phone #			(386)473-2165
6.1.7	Proposer Financial Information			Core & Main LP is a publicly traded company. Latest financial statements can be found here: https://ir.coreandmain.com/financials/sec-filings/default.aspx

Company Background & History

Core & Main LP (CNM) was established in 2004 and built on the foundation of 80+ legacy companies, including HD Supply Waterworks, Hughes Supply, and National Waterworks. Our products are integral to building, repairing, and maintaining water and wastewater systems. They serve as part of the basic municipal infrastructure required to support population and economic growth, including residential and commercial construction. CNM holds a leading market position in the United States for water, sewer, storm drain, and fire protection products.

Headquartered in St. Louis, Missouri, we have over 5,500 employees across 49 states and over 350 locations that strive daily to provide local knowledge, experience, and service nationwide.

Our Vision

To foster a world where communities thrive because our people and products provide safe, sustainable infrastructure for generations to come.

Our Mission

We are industry leaders, supplying local expertise, service, and products nationwide to build innovative water, wastewater, energy and fire protection solutions for our customers and the communities we serve.

We invest in the development and well-being of our people, who are the key to our future. Together, we act with honesty and integrity because we believe strong relationships make for strong communities.

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Our Core Principles



- Our team members are family.
- Honesty & integrity guide us.
- Everyone is in sales.
- We value industry, technical & local expertise.
- We are action-oriented & accountable.
- We are growth-focused.

Business Structure

- Core & Main LP (“Core & Main,” the “Company,” “we,” “our” or “us”) is a Florida limited partnership.

Contact Information

Local Knowledge
Local Experience
Local Service, Nationwide®



- Address: 1830 Craig Park Court. St. Louis, MO 63146
- Phone: 314-432-4700
- Website: https://coreandmain.com/
- President: Brad Cowles
- CEO: Steve LeClair

Local Branch – Lakeland, FL

- Address: 3216 Winter Lake Rd, Lakeland, FL 33803
- Phone: 863-868-8279
- Email: Lakeland@coreandmain.com
- Website: Lakeland, FL - Core & Main (coreandmain.com)

Size & Support

Operating approximately **350 branches** nationwide, we combine local expertise with a national supply chain to provide contractors and municipalities with innovative solutions for new and aging infrastructure. Our **5,500 associates** are committed to helping their communities thrive with safe and sustainable infrastructure. CNM has over 1,600 sales representatives offering local sales and support along with over 200 technical product specialists at the national and regional levels with expertise in specific product and service offerings.

Core and Main is a publicly traded company under ticker symbol CNM. CNM became publicly traded on the New York Stock Exchange in July of 2021 and holds a current market cap of over $10 Billion USD.



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Sustainability

Our Core & Main vision statement defines our most essential, broadest focus: "a world where communities thrive." Our company is a leading distributor of products and services for water infrastructure, which means the earth's most valuable resource is at the core of our business. We align our business strategy and operations with the goal of safe, sustainable infrastructure for generations. For additional detail about Core & Main's Environmental, Social & Governance efforts, view our most recent ESG report found here: https://coreandmain.com/who-we-are/esg/

Core & Main AMI Expertise

Core & Main offers Metering & Technology as one of its core growth initiatives. Our company has been supporting automated meter functions, in its modern form, for over two decades, starting with its infancy in touch-read, its evolution into drive-by radio read, and, more recently, AMI.

Core & Main is the largest distributor of Sensus metering products in the United States and the exclusive Sensus distributor in the state of Florida. Core & Main has successfully completed over 1,900 metering projects nationwide, worked with utilities to implement over 100 Sensus AMI projects in the Southeast Region (Florida, Georgia and Alabama), and over 40 in the state of Florida. This experience has offered our team the opportunity to learn best practices and minimize customer disruptions during deployments.



With branches across the United States, Core & Main provides our customers with premium waterworks supplies and services. Our primary service branch for the City of Wauchula is located in Lakeland. Additionally, Core & Main has 17 additional waterworks locations throughout the state of Florida. We have full-time local AMI service and support technicians and project managers on staff that will be dedicated to the deployment of this project.

In addition to an exceptional product offering, Core & Main is uniquely qualified to offer additional value-added services that enhance customer service and reliability. Examples of these value-added services include:

- Serving as a Sensus Value-Added Reseller (VAR), the highest level of distributor classification.
- Inventory support from local, state and nation-wide branches
- Knowledgeable local personnel to work with the City to proactively identify and solve problems
- Project management and installation services to efficiently implement the AMI Solution.

Licenses

Core & Main holds a Certified Underground Utility and Excavation Contractor License in the state of Florida, which further supports our qualifications for serving the City and its residents through this project.

- Underground Utility & Excavation License, State of Florida. Core & Main
- License Number: CUC1225503

Business Authorization

Also found in the Appendix.

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State of Florida
Department of State

I certify from the records of this office that CORE & MAIN LP is a limited partnership organized under the laws of the State of Florida, filed on November 22, 2004.

The document number of this limited partnership is A04000001840.

I further certify that said limited partnership has paid all fees due this office through December 31, 2024 and that its status is active.

I further certify that said limited partnership has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twentieth day of March, 2024

Secretary of State

Tracking Number: 1816194575CU

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

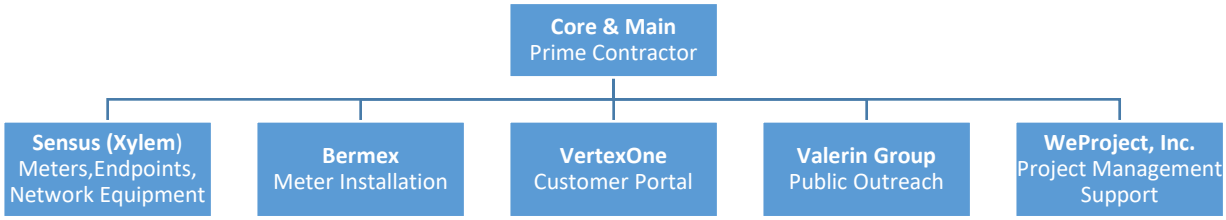
https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

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2.2 Project Personnel

As the prime contractor, Core & Main accepts responsibility for all aspects of this program. Our team will lead all partner integrations and sub-contractors to see the various portions of our program are completed on time and within budget.

Below is an organizational chart outline for the City of Wauchula AMI program.



Below we have outlined key project personnel and their roles:

Core & Main:

- Payton Duncan, Florida Smart Utility Specialist – Orlando, FL
- Jason Milhorn, Outside Sales Representative – Orlando, FL
- Joe Holsten, Operations Manager – Orlando, FL
- David Bryant, District Manager –Orlando, FL
- Dewayne Self, Regional Initiative Manager – Metering & Technology
- Ryan Johnson, Regional Vice President – Southeast Region

Sensus:

- Mark Costello, Account Development Manager – South Florida
- EJ Gomes, Director of Sales, Electric US – Morrisville, NC

Bermex:

- David C Mack, Business Development Manager – Stow, Ohio
- Kenny Murphy, President – Stow, Ohio
- Tommy Combs, Director of Operations
- Ken Warner, Senior Operations Manager – Tampa, FL
- Sylvia S. Rafanan – AMI Deployment Manager

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- Brett Mains – AMI Project Manager

VertexOne:

- Cole Davidson – Director of Business Development

The Valerin Group:

- Valerie Ciudad-Real – President | Chief Executive Officer valeriec@valerin-group.com
- Justina Hicklyn Peart – South Florida Regional Manager justina@valerin-group.com
- David Wood Alexis, Jr. – Communications Specialist david@valerin-group.com
- Chuck Thompson – Creative Director chuck@valerin-group.com

WeProject, Inc.

- Silvia Rodriguez, PMP – Founder, Owner: Silvia@WeProject.com

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XYLEM & SENSUS

As a leading global water technology company, Xylem is dedicated to solving the world's most challenging water issues across utility, industrial, commercial, and residential markets. Over the last 100+ years, Xylem's unique combination of innovative products and services, proven expertise, and unmatched customer support have been helping to create a more water-secure and resilient world. Across the water cycle, Xylems innovative solutions use less energy, reduce operating expenses, and support sustainability efforts. Xylem believes that by working together, we can ensure water is accessible, affordable, and safe for all.

SENSUS AMI EXPERTISE

With more than 125 years of experience, Sensus understands what it takes to make reliable and accurate utility products that will endure any environment while delivering consistent performance our customers can rely upon. Sensus has been enhancing its unique FlexNet AMI solutions for water utilities for more than 20 years. With the FlexNet solution, they are proud to be the North American leader in RF radio and AMI technology.

Since introducing its first water communications technology system in the early 1990s, Sensus has refined and perfected battery quality and power management. With the introduction of FlexNet for water in 2006, Sensus proved the value of a fixed communications network for water utilities. In 2009, Sensus accomplished what no other vendor has done by deploying field-proven smart water networks with true two-way capability available every minute of every day to battery-powered field devices.

Over 2,500 water utilities in the U.S. and Canada use the Sensus FlexNet system, with over 50 million SmartPoints installed and in operation. Based on this experience, Sensus has unparalleled system capabilities and expertise in delivering a proven AMI solution.

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Bermex

Bermex works towards providing the best solutions by reducing our clients' costs and minimizing customer complaints. We work with gas, electric, and water utility companies to design a plan that best fits the challenges you're facing. Customized service plans include meter reading, billing and collection, AMR and AMI transition assistance, and call center services. We're dedicated to building a strong partnership with our clients in order to provide them with services that benefit their company in the long run. We have been servicing customers with integrity and reliability since 1972.

Bermex was founded on a handshake, and that symbol of trust has carried our business for more than four decades. We hold ourselves to a world-class standard of integrity, because for our business to work, we need your trust. That's our No. 1 priority. Bermex has a rich history, but we're also a part of ACRT Services.

ACRT Services offers expert, independent consulting solutions to utilities and associated organizations throughout the United States, including vegetation management consultation and training, customized safety courses, technology solutions, and utility metering services. We assess and monitor systems for liabilities, consult with decision-makers on planning.

Bermex, Inc. (Bermex) is a wholly owned subsidiary of ACRT Services, Inc. (ACRT Services). Bermex is incorporated in the state of Michigan. Bermex has been performing meter reading and other utility contracted services since 1983.

Bermex Business Organization

Bermex currently has operations in Alabama, Florida, Georgia, Kentucky, Louisiana, Ohio, New York and Texas. Bermex employs 450 team members on 25 projects.

Corporate Headquarters:
Bermex, Inc.
4500 Courthouse Blvd Suite #150
Stow, Ohio 44224

Regional Office:
Bermex, Inc.
8413 Laurel Fair Circle Suite #102
Tampa, Florida 33610

Regional Office:
Bermex, Inc.
1380 Dublin Rd. Suite #200
Columbus, Ohio 43215

Regional Office:
Bermex, Inc.
2880 W. Oakland Park Blvd
Fort Lauderdale, FL 33311

Bermex plans to use VPie Work Order Management Software for this deployment.

Board of Directors – Bermex, Inc:

- Kenny Murphy – President
- Brad Schroeder—Treasurer
- Alan Rothenbuecher – Secretary

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Bermex Utility Services & Installation Expertise

Bermex has been a premier meter services vendor since 1972, our customers have a history of staying with us for decades and entrusting us to handle many of their service needs including meter reads, field collections, meter turn-ons and shut-offs, delivery of customer notifications, meter change-outs, installation of AMR devices, and utility locating services. They stay because we consistently save them money, mitigate operational problems, and improve customer service by providing quality personnel and ample support.

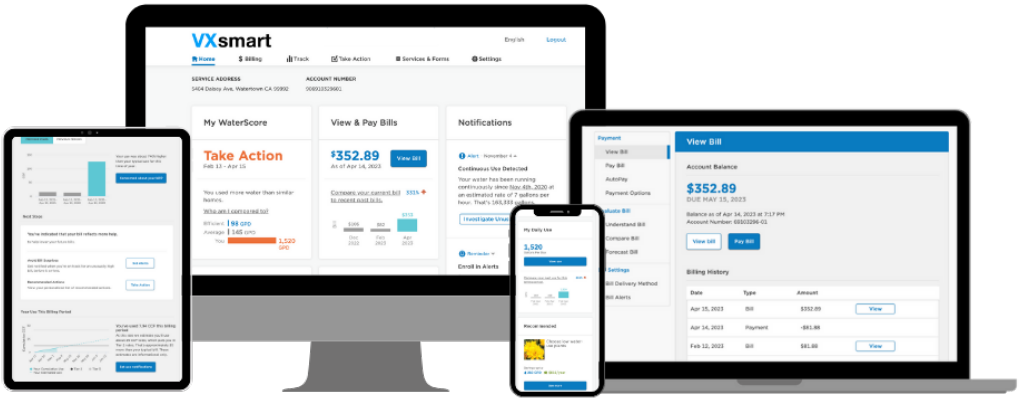
Our goal is to present valuable information that empowers our customers to make the best decisions for their organization. We understand the described scope as defined in the request for proposal and our team is committed to completing goals set by the City of Mount Dora. We hope that this proposal provides the information needed for you to evaluate our service and continue our partnership.

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VertexOne

For 30 years, VertexOne has been helping utilities and energy companies across North America achieve digital transformation and business process optimization.

VertexOne develops cloud software designed to revolutionize the customer experience for utilities, energy retailers, suppliers, and energy transition companies through a comprehensive customer-to-cash technology platform. Whether you're ready to implement effective customer engagement solutions, modernize your billing and customer information systems, or embrace the power of automation and data analytics, VertexOne has you covered.



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THE VALERIN GROUP:

The Valerin Group, Inc. (Valerin), is a woman-owned, full-service communications firm headquartered in Tampa with offices in Orlando, West Palm Beach, and Coral Springs, specializing in public involvement, community outreach, marketing, graphic design, website and mobile app development, multimedia, video production, drone, and trilingual services. Valerin's talented staff is comprised of communications, creative and technical professionals, who combined have more than 425 years of experience and have worked on over 725 public utility and transportation projects for public sector clients, including municipalities, counties, and state agencies such as the FDOT.

Community Engagement Expertise:

For this project, Valerin will develop a detailed Customer Engagement Plan that is tailored to the specifics of the project. Key elements of the plan will include the development of outreach strategies, identifying engagement activities and providing an outline of tools, tactics, techniques, and technology to effectively communicate with the City's customers. The objective of the plan will be to notify applicable agencies, affected property owners and tenants of project specifics and anticipated impacts. It will also identify potential issues and anticipated community concerns as well as strategies to address them, including developing Frequently Asked Questions (FAQs) at the start of the project. The plan will serve as our communications blueprint and will be updated as needed throughout the life of the project.

Certifications include:

- State of Florida: Woman Business Certification
- Florida Department Of Transportation: Disadvantaged Business Enterprise (DBE)
- Florida Department Of Transportation: Small Business Enterprise (SBE)

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WEPROJECT, INC.

WeProject is a Project Management Office (PMO) with over 23 years of Project Management experience, that serves as an extension to small- to medium-sized businesses within the public and private sector. We have hands-on manufacturing, firmware, software, process, testing, QA/QC, and AMI project experience from inception through implementation. We also offer support services during the maintenance/managed services phases. Our services fall under three major categories:

PMO resources, including people, tools, and techniques.
Project Management Mentorship programs.
Workshops and events with focus on Project Management and leadership.
Our company vision is to bridge the gaps that naturally exist among stakeholders and improve customer efficiencies, while reducing work-related stress. Our mission is to provide unbiased professional services, equally advocating for stakeholders and project deliverables. We achieve our mission and work towards our vision by consistently applying our core values: Trust, Teamwork, Total Quality, and Tenacity.

Certifications include:

- WeProject is minority- and woman-owned, registered as a Historically Underutilized Business (HUB) since October 4, 2019. NCSBE Cert. #: 381822

Past Performance:

- AMI QA/QC Support for Xylem-Sensus (Multiple Projects)
- AMI Deployment for City of Newberry (USA Municipal)
- AMI Integrations & FSAT for City of Clewiston (USA Municipal)
- MDM Consultation, Technical Writing, & Training for Honeywell-Elster
- AMI Deployment for Hope Water & Light (USA Municipal)
- AMI Deployments for CFE, Multi-Region (Mexican Utility)
- AMI/MDM Deployment for San Francisco PUC (USA Utility)
- MDM Integration for Hydro-Quebec (Canadian Utility)
- MDM Integration for Salt River Project (USA Utility)
- MDM Integration for ICE (Costa Rican Utility)

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On the following pages we have provided brief biographies of our team's key personnel, highlighting their relevant experience and qualifications on previous similar projects. Upon request, we can provide detailed resumes for any team member.

	**Payton Duncan** *Smart Utility Specialist* Core & Main PROFILE Payton Duncan is a graduate from Missouri University of Science & Technology with a bachelor's degree in engineering management., with an emphasis on Management of Technology and Supply Chain Management. Payton is a Smart Utility Specialist, focusing on Sensus Technology. Payton has previous knowledge and experience in project management and technology implementation during his time as an engineering student and in the Water & Wastewater Industry. Payton will help support the project as well as ongoing support. Payton also served as the Digital Project Manager for MDWASD's Wastewater AMI Program.
	Darrin Anderson *Outside Sales Representative* Core & Main PROFILE Darrin Anderson is the Outside Sales Representative, OSR, for the City of Wauchula.
	**James Hiester** *Sr Mgr, Sales – Electric* Core & Main PROFILE James Hiester has over 17 years of experience in the Electric Utility industry with multiple AMI technologies including electric metering, radio frequency networks, smart grid, and various other data analytics, asset management, and data management applications. He also has experience working with Utilities such as Florida Power & Light, Duke Energy, and Progress Energy on low to medium voltage Power Distribution Design and asset management. He has been involved in a combined 100+ deployments of AMR/AMI systems while on staff with Core & Main and previously Sensus. With a Bachelors of Science in Electrical Engineering from University of Central FL, he has been able to apply knowledge and experience from a broad base to assist customers many topics common to utility personnel.

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Noel "Dewayne" Self
Sr. Manager Sales- SE Region Meter Initiative
Core & Main

PROFILE
Dewayne is a 15-year meter industry veteran beginning his career with Core & Main in 2006 and was one of the original members of the National Services Group (NSG). During his time with the NSG he was tasked with selling turn-key metering projects across the United States. Dewayne has served in a variety of functions from implementation and project management to sales support and consultation. Since 2013 Dewayne has served as the regional metering/AMI initiative- manager in his current role Dewayne manages the product specialists and is responsible for ensuring customer support success and sales performance for the region. Dewayne has worked on a variety of Sensus Automated Metering projects ranging in size from 500 touch read endpoints to 200,000 AMI endpoints. Dewayne is a graduate of the University of Arkansas with a degree in business-finance. Additionally, Dewayne served as a communications specialist in the US Army where he attended US Army Signal school and worked with a variety of encrypted HF/UHF/SHF radio systems.



Steve Bruntlett
Senior Manager, Construction Projects & Project Management
Core & Main

PROFILE
Steven Bruntlett is a Senior Sales and Construction Manager with Core & Main. He also holds all relevant contractor licenses for Core & Main in the state of Florida. Steven has an engineering background with 7+ years of AMI experience. He is responsible for oversight on all AMI Projects, along with managing the CORE+ on-going maintenance group. Steven's managerial experience along with knowledge of proper operating procedures will play a key role in the implementation and support of the proposed AMI Project.



Shawn Kietzman
Senior Sales Manager
Core & Main

PROFILE
Shawn Kietzman is a 25-year water meter industry veteran. During his career, Shawn has worked with both manufacturers and distributors focusing on the development and delivery of metering & technology projects. Shawn spent 7 years as a volunteer for the American Water Works Association. He used that time to better understand the challenges and needs of utilities and how to best educate/train operators to offer safe drinking water. Through the successful delivery of over $250M projects in his career, Shawn has a deeper understanding of proper methodologies and use cases for technology deployments. Shawn uses his experience to help utilities round the country utilize technology to improve their quality and delivery of drinking water.

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	**Mark Costello** *Account Development Manager – Central / South Florida* Xylem | Sensus PROFILE Mark Costello has worked in the utility industry for over 8 years, specializing in technology-focused utility solutions. Over that time, Mark has been able to experience and observe the numerous challenges that our utility partners face every day. This experience has created a strong affinity for developing comprehensive, sustainable, and cost-effective utility solutions with our collective team's resources. Mark resides in Palm Beach County, FL with his family. This local presence will be an invaluable resource for the City from quick response capabilities to local knowledge of the challenges that are specific to the South Florida area.
	**EJ Gomes** *Director of Sales, Electric US* **Sensus, a Xylem Brand** **PROFILE** EJ is a proven project development and sales leader with 15 years of professional experience managing cross-functional teams from within the governmental, utility, and private sectors of the energy industry.
	Tommy Combs *Director of Operations* **Bermex, Inc.** **PROFILE** Tommy Combs, holding a Bachelor of Science in business management from the University of Tampa, is the director of operations at Bermex with more than 20 years of experience in the utility service industry. He has led numerous AMI and AMR projects throughout his career, with his most recent experience working with Riviera Utilities in Alabama and City of Albany, Ga. Previous projects include TECO Peoples Gas- 300,000+ Gas Meters, Peace River Electric- 50,000 Electric Meters, Gulf Power- 400,000 Electric Meters, Shelby Energy- 14,000 Electric, and Bluegrass Energy- 55,000 Meters.
	David Mack *Senior Business Development Manager* **Bermex, Inc.** **PROFILE** David Mack is a metering services business development manager at ACRT Services. He has more than two decades of transportation logistics and utility operations

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	experience and has been with Bermex since 2012. Mack holds a bachelor's degree in business administration from Ohio Christian University, located in Circleville, Ohio.
BERMEX	**Sylvia S. Rafanan** *AMI Deployment Manager* **Bermex, Inc.** **PROFILE** Sylvia is an AMI Deployment Manager brings over 15 years of experience in the utility industry specializing in smart meter deployments. She brings a diverse background in electric and gas deployment projects for major deployments for Pudget Sound Energy, PG&E, and Arizona Public Service. Sylvia has Bachelor of Science degree in Civil Engineering and Electrical Technology.
BERMEX	**Ken Warner** *Senior Operations Manager* **Bermex, Inc.** **PROFILE** Ken, who is currently based in Tampa, Florida, began his career as a meter reader in 1998 with South Central Power in Ohio. Over the past 24 years, he has acquired a wealth of experience in the utility industry, having worked at all levels. Ken's areas of expertise include utility locating, leak surveys, electric and gas meter exchange, as well as safety compliance.
BERMEX	**Brett Mains** *AMI Project Manager* **Bermex, Inc.** **PROFILE** Brett is a Project Manager for Water Smart Meter Deployment bringing over 10 years' experience in water operations. Brett started as a meter reader and worked is way up to Field Supervisor for Toho Water Authority. Brett has experience in water meter deployments and is a large meter specialist. He has a degree in management from Florida State University.
 vertexone	**Cole Davidson | VertexOne** *Director of Business Development* Experienced Director of Partner Sales driving revenue growth through strategic alliances. Proven track record in cultivating and leveraging partnerships to maximize channel effectiveness, exceed sales targets, and expand market reach. Skilled in developing and executing comprehensive partner strategies that deliver joint value propositions and foster long-term customer relationships. Adept at leading high-performing teams, inspiring excellence, and delivering exceptional results in fast-paced, dynamic environments. Let's connect and explore how we can drive remarkable business outcomes together.

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	**Valerie Ciudad-Real – Quality Assurance/Quality Control** During Valerie's 33-year career, she has developed and implemented hundreds of public participation programs and communication plans for public sector clients, including the Florida Department of Transportation (FDOT), municipalities, expressway and transit authorities, planning organizations, and counties. Valerie serves as a communications manager responsible for overseeing assigned staff and public engagement and outreach activities and also leads Valerin's Quality Assurance/Quality Control program. Valerie's leadership and commitment to excellence guide the Valerin team to perform to the highest standards on behalf of their clients.
	**Christine Girardin – Senior Community Outreach Specialist** Christine brings 27 years of experience in communications, copywriting, editing, research, and graphic design. In the past 14 years, she has established a reputation as a reliable, credible communications specialist. Additionally, her skill set includes Microsoft Office and leveraging various social media platforms for public involvement and outreach efforts. During her career, she has been a print journalist and public information officer for several agencies, including serving as a senior community outreach specialist on projects for various government agencies and municipalities, including the Polk Regional Water Cooperative (PRWC), Florida Department of Transportation (FDOT), Pinellas County Utilities, Collier County, Hillsborough County, Hillsborough Metropolitan Planning Organization (MPO), City of Tampa, and City of Naples. Christine also has taken the Document Accessibility Course through Utah State University and is certified in converting documents to meet ADA compliance. Christine has a BA degree in Political Science from Augusta State University, an AS degree in Graphic Design Technology from Palm Beach State College and an AA in Communications from Polk State College.
	**Tiffani McClain – Senior Community Outreach Specialist** Tiffani has over 17 years of diverse marketing, public relations, community outreach, and social media management experience. As a communications professional, Tiffani has developed and implemented strategic communication plans for both private and public-sector clients, including digital and social media, community engagement, and community outreach. Tiffani supports numerous community and stakeholder communications efforts through survey initiatives and develops social media content appropriate to the client's respective platforms. In addition to content and audience development, she works with clients in a collaborative manner to manage communications logistics such as audience and demographic research, subscription and contact data, and event/social media calendars. Tiffani also has taken the Document Accessibility Course through Utah State University and is certified in converting documents to meet ADA compliance. Tiffani has a BA degree in Communications from Florida Atlantic University.

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	**Chuck Thompson – Graphic Artist** Chuck has more than 37 years of extensive experience serving as a creative director and project manager providing creative services, including graphic and website design for a wide range of public sector clients. He offers marketing and visual communication solutions and prides himself in his problem-solving abilities through design. His designs allow the public to identify and connect with the client's message to promote successful results. He specializes in both traditional and digital media solutions and is the recipient of multiple gold and silver Addy awards, as well as a Clio Award for his past design work.
	**Silvia Rodriguez, PMP – Sr. Project Manager** Silvia Rodriguez is a Project Management expert and eternal optimist, whose goal is to bring out the best in everyone she meets. She believes we're all valuable, but we must remain hungry and humble. Silvia led smart grid and energy management projects for a fortune 100 company, before spearheading WeProject. Throughout her 20+ years in project management, Silvia has been known for her tenacity, energy, and positive attitude. Silvia's innate soft skills and systematic approach have helped deliver complex multi-million-dollar smart city projects in Canada, USA, and Latin America. Among those projects were MDM, AMI, and sub-metering deployments for utilities, independent power producers, and retail customers. Silvia is a certified Project Management Professional (PMP) and a member of the North Carolina Project Leaders Toastmasters club. She holds a Bachelor of Science degree in Project Management and an Associate of Applied Science in Industrial Engineering.
	Nancy Garcia - Chief Financial Officer Nancy Garcia is a Solutions expert, with a focus on Organizational Excellence. She believes that teamwork and each individual's motivation to learn and share knowledge are essential to finding root cause and resolving the task at hand. Nancy's successful 20-year career at a software company plus the financial management of a small trade business since 2007, has yielded expertise from a wide variety of systems & hardware (SQL, Salesforce, LIMS, SCADA, PLCs, RS232 equipment, CNCs, etc.) to financial business operations & long-term business success. Nancy's volunteer work spans across churches, ASQ Raleigh and Civil Rights. With her husband and three girls as priority, Nancy makes it a point to mentor teenagers on the importance of God, selflove, family, country, education, and work ethic.
	Brittany D. Wilson - Project Coordinator Brittany D. Wilson is a forward-thinking, solutions-driven professional currently working as a Project Coordinator at WeProject. Her inquisitive nature and experience in the transition from Advanced Meter Reading technology to Advanced Meter Infrastructure brings a refreshing perspective to the deployment process. Her unmatched ability to take what she learns and convert that knowledge into effective training materials, helps expedite and obtain desired Quality Assurance and Quality Control levels by training co-

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	workers and those without any AMI experience. Understanding and following established QA/QC processes allowed Brittany to showcase her dynamic thinking and suggest approaches which helped AMI customers achieve a near zero installation data defect rate. Brittany has been known for her perseverance and desire to see things through no matter the difficulty. This attitude coupled with her experiences within customer care and business intelligence makes her a well-rounded professional. Brittany holds an Associate of Science in Biology and a certificate in Business Intelligence. She also has over eight years of administrative experience as well as technical experience in Excel, Tableau, Power BI, and SQL.
WEPROJECT	**Nishitha Singh - SmartGrid Systems Associate** Nishitha Singh began her career with Google in 2019 and has 5 years' experience as a Business Analyst. Her focus has been on Agile Methodologies for iterative development and adapting to changing user needs. As a Smart Grid Associate, Nishitha has successfully transitioned into the AMI industry, performing Data Validation at a near perfect rate and monitoring an operational AMI system daily. Nishitha's diligence has helped customers improve their QA/QC metrics from a 20% data failure rate down to 1.5%, while changing their system from AMR to AMI technology. Nishita's skills include analyzing data using SQL, conducting Root Cause Analysis and Impact Analysis to identify discrepancies, underlying issues and assess the consequences, whilst enabling informed decision making. Born and raised in India, Nishitha graduated from Jawaharlal Nehru Technological University in 2019, specializing in Electrical and Electronic Engineering. She is passionate about strategic thinking with a problem-solving attitude.

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2.3 References

Please provide references for the Proposer's managed services for similar municipal utility deployments, including the information requested in Table 2-2. Please indicate all experience in the US Southeast or Florida where managed services are provided. If the system covers water-only areas, please indicate this fact.

When completing Table 2-2, the Proposer shall supply information for a minimum of one reference of a project (completed in the last 3 years) that meets each of the following criteria:

- **AMI –Electric & Water Solution:** AMI deployment, including water-only or electric and water with two or more water-only areas within the overall territory.
- **AMI – with Customer Portal:** AMI deployment, including use of Tyler's ERP Pro Customer Portal. Proposer to describe the functionality in use.
- **AMI – with Tyler ERP Pro**: AMI deployment successfully integrated with a Tyler ERP Pro system. Proposer to describe the functionality in use.

References that meet more than one of the above criteria would be especially valuable.

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Table 2-2. References

Rqmt. #	Rqmt. or Project Description	Utility Name	Utility in FL?	Contact Name and Title	Contact Phone #	Contact Email	Start/Completion Date	Number of Meters		Project Description
								Electric	Water	
6.2.1		Newberry, FL	Yes	Mike New, City Manager	352-472-2161	mnew@@newberryfl.gov	Final Stages of Active Deployment	2,500	2,500	CNM Prime, W/G/E, Sensus FlexNet, Tyler Encode
6.2.2		Lakeland, FL	Yes	James Moore, Smart Grid Systems Manager	863-834-6383	James.moore@lakelandelectric.com	Services Began 2013	135,000	60,000	Sensus W/E
6.2.3		Troy, AL	No	Danny Lee, AMI Coordinator	334-670-6062	Danny.lee@troyal.gov	Services Began 2014-2015	9,500	10,000	W/E, Tyler Encode
6.2.4		Talquin Electric	Yes	Dane Clemons, IT Manager	850-893-6853	Dane.clemons@talquinelectric.com	Services Began 2010	60,000	25,000	Sensus W/E
6.2.5										
6.2.6										
6.2.7										
6.2.8										
6.2.9										
6.2.10										
6.2.11	**Identify any failed or defaulted projects in the last 5 years.**	**Description**								
		NONE								
6.2.12	**Identify any claims or judgments outstanding against your company or**	**Description**								
		NONE								

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	sub-suppliers.	

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2.4 Customer Site Visits

Table 2-3. Customer Site Visits

Rqmt. #	Requirement Description	Comply?		Comments / Clarifications
		YES	NO	
6.3.1	The Proposer shall recommend up to three customers for site visits. Preference will be given to utilities of similar size, scope, and proximity to the City.	X		• Clewiston, FL • Lakeland, FL
6.3.2	The Proposer shall work with at least two customers to arrange an on-site (or virtual) demonstration of systems and discuss utility processes, issues, etc. The City prefers that the Proposer not attend these on-site customer visits beyond simple introductions at the start of a meeting.	X		We will work with two customers to ensure the City receives an on-site demonstration.

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3 TECHNICAL SOLUTION

Introduction

Core & Main is pleased to present our proposal for a comprehensive Advanced Metering Infrastructure (AMI) solution designed to meet the City's needs. Our approach integrates advanced Sensus hardware and software, ensuring a robust, reliable, and future-proof system. This document outlines the proposed Sensus AMI water meters and modules, non-meter devices, the physical connection methods, the communications backbone (Sensus FlexNet), necessary communications studies, required software programs, our CORE+ SaaS/NaaS plan for successful system integration, and ongoing managed services. Additionally, it includes details of the warranty coverage for the proposed meters. Each component has been carefully selected to align with the City's technical requirements and operational goals, providing a pathway to efficient water management and improved service delivery.

The FlexNet system is purpose-built to meet utilities' needs today and in the future. Our system is distinguished from competitive offerings by offering expandability with innovative solutions over time while maintaining backwards compatibility for your existing deployed products. Sensus avoids obsolescence by developing products that bring in new applications while maintaining backward compatibility to all your endpoints in the field, for the life of your FlexNet system. FlexNet also brings you consistent system performance over time using our exclusive FCC-protected RF frequencies, and the ability to support many applications simultaneously by operating multiple RF frequencies.

AMI Water Meters and Modules

To address diverse metering needs, Core & Main proposes a suite of Sensus meters and modules, each selected for its specific strengths in accuracy, durability, and application. Sensus develops and manufactures a complete complement of AMI products. This includes electric, water, and gas meters; communication network modules; solutions for real time distribution applications; communication products that support third-party products and applications to meet the business and operational requirements of utilities; and easy-to-use Head End System software solutions and analytic solutions for a wide range of applications.





- **SRII Meter:** The SRII Meter, a positive displacement meter, features a durable brass construction and magnetic drive, making it suitable for both residential installations. Its robust design and compatibility with AMI systems ensure long-term reliability and ease of integration.
- **iPERL Meter**: For environments requiring advanced precision and data management, the iPERL Meter offers electromagnetic metering with no moving parts, enhanced accuracy and durability, and advanced alarms. This meter is ideal for residential applications where reliable and precise water measurement is essential.

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- **Ally Meter:** The Ally Meter, is a groundbreaking smart water meter featuring an integrated, self-cleaning, three-state ball valve for remote service shut off, turn on and reduced flow states. Electromagnetic flow measurement allows for enhanced metering accuracy while integrated pressure and temperature sensors deliver valuable environmental data. It is well-suited for advanced residential applications, providing real-time data and control capabilities that facilitate proactive management of water resources. The Sensus ally® water meter features an integrated 3-state valve, temperature and pressure sensors and alarms.



- **OMNI+ Meter:** The OMNI+ Meter, a turbine meter, is designed for large commercial and industrial applications. Its wide flow range and advanced metrology make it perfect for environments with complex flow patterns, offering high accuracy and seamless integration with AMI systems.
- **Cordonel:** The Sensus Cordonel is a state-of-the-art water meter designed for high accuracy and reliability. It features an ultrasonic measurement principle, which ensures precise readings even at low flow rates. The Cordonel meter is suitable for a wide range of applications, from residential to commercial and industrial settings. In addition, the integration of pressure and temperature sensors in the Sensus Cordonel meter offers significant advantages for water management and operational efficiency. The pressure sensor aids in early detection of leaks by detecting sudden drops in pressure while the temperature sensor helps ensure water quality and prevention for the growth of harmful bacteria.



- **Sensus 520M Single-Port and Dual-Port Modules:** To complement our metering solutions, Core & Main proposes the Sensus 520M single-port and dual-port modules, which are critical endpoints in the AMI ecosystem. These modules support remote data collection and communication, allowing for efficient and accurate meter reading. The single-port module is designed for applications requiring a single data point connection, while the dual-port module supports two data points, making it ideal for scenarios where multiple connections are needed, such as a dual residential service. Both modules are designed to integrate seamlessly with the FlexNet communication network, enhancing data accuracy and reliability.



AMI Electric Meters and Modules

Sensus is proposing the Sensus Stratus IQ for your residential electric customers and the Aclara kV2c for commercial and industrial customers. FlexNet is also compatible with the Aclara I-210+c residential electric meter and the Honeywell A3 C&I meter, which we are presenting as alternative options

Electric Residential Meters

The Sensus Stratus IQ is the enhanced version of our Stratus residential meter, featuring several innovations and expanded capabilities including leading edge tamper and safety provisions, as

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suggested by our customers. Both the Stratus and Sensus Stratus IQ meters have shipped to electric and combination utilities ranging in size from hundreds to millions of meters across North America. Additionally, we have been providing the FlexNet-enabled Aclara I-120+c to electric utilities for more than 5 years.

Electric Commercial Meters

The proposed Aclara kV2c meter family is one of the most widely accepted meters in the market today, with more than two million units deployed. It is designed to provide Wauchula with reliable and accurate revenue metering combined with advanced real-time instrumentation, true power quality monitoring and real cost of service measurements.

The Honeywell A3 ALPHA meter is also available with an internal SmartPoint module to enable Wauchula to collect data from C&I customers. Sensus is the #1 seller of Honeywell A3 meters.

As a part of our on-going electric meter support, Core & Main and Sensus technical personnel will work with Wauchula for all four of the proposed electric meters, not just our own.

FlexNet Supports Prepayment Capabilities

The Head End System supports prepayment capabilities with disconnect switch-equipped Stratus and Aclara meters. In addition to operating the switch, the Head End System can integrate to your prepayment vendor of choice and integrate with their system in real time using the MultiSpeak API.

Physical Connection

The physical connection of the proposed Sensus meters and modules into the City's water distribution system is designed for reliability and ease of installation. Residential meters, including the SRII, iPERL and Ally models, will be installed in standard meter boxes or vaults, connected using couplings that ensure secure and straightforward installation. These meters are battery-powered, which minimizes wiring complexity and reduces installation time. For commercial and industrial meters such as the OMNI+ and Cordonel, installation will utilize flanged connections to accommodate various pipeline sizes. These meters are equipped with integrated batteries and they require minimal wiring for data connectivity, further simplifying the installation process.

The Sensus 520M single-port and dual-port modules will be connected to the respective meters, facilitating seamless data transmission to the FlexNet network. These modules are designed for easy integration, with a focus on minimizing installation complexity and ensuring reliable data transmission. The integration process involves securely mounting the modules adjacent to the meters and establishing communication links using standardized protocols, ensuring compatibility and reliability across the network.

Non-Meter Devices

Core & Main recognizes the importance of enhancing the functionality of the AMI system beyond basic metering. As part of our proposal, we include non-meter devices that support advanced smart utility applications, including water level monitoring, temperature sensing, pressure management and leak detection. These devices provide valuable data for optimizing system performance and resource allocation.

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- **Sensus Smart Gateway**: The Sensus Smart Gateway serves as a versatile device that bridges various sensors with the Sensus FlexNet communication network. It facilitates the integration of sensors for water quality, pressure, and level monitoring, enabling real-time data collection and management. The Smart Gateway supports multiple communication protocols and ensures secure data transmission, enhancing the City's ability to monitor and manage its water distribution network effectively.



- **The Sensus Water Level Monitoring Kit:** With the Sensus Water Level Monitoring Kit combined with the Sensus Smart Gateway, the city can remotely monitor and trend the level of water at key facilities in its system. Customizable alarms can be set to alert utilities when levels reach certain thresholds, which can be transmitted to utility systems or individuals allowing for proactive resolution. The Sensus Water Level Monitoring Kit enables proactive utility operation and maintenance, decreases the need to deploy field crews, leverages the FlexNet communication network and provides a cost-effective data accumulation option.
- **Water Temperature Sensors:** With its integrated temperature sensor, the Ally meter offers real-time data to help maintain water quality, optimize energy usage, and ensure efficiency in maintaining the temperature of the City's water supply. Leveraging the FlexNet communication network, the Ally meter allows for remote temperature monitoring and control throughout the AMI system. Data collected by Ally's water temperature sensor can trigger alerts for temperature anomalies, ensuring regulatory compliance and maintaining operational standards.
- **Sensus Pressure Sensor Kit:** The Sensus Pressure Sensor Kit combines with the Sensus Smart Gateway Sensor Interface to provide utilities knowledge of water pressure at almost any point in their water system. Knowing the water pressure at multiple locations can help determine where a main break has occurred, where a pump or valve has malfunctioned and where a system may have issues delivering water for fire protection and for public consumption. Leveraging the FlexNet communication network through the Smart Gateway Sensor Interface, the pressure sensor kit empowers utilities to monitor pressure remotely. Customizable alarms can be set to alert utilities of high- or low-pressure conditions at remote locations. Alarms can be transmitted and forwarded to utility systems or individuals allowing for proactive resolution. Additionally, pressure data can be accumulated to develop new insights into the operation of the water system. The Sensus Pressure Sensor Kit transmits pressure data through the Sensus Smart Gateway Sensor Interface. With two 4-20 mA analog inputs and two Form A digital inputs, the Sensus Smart Gateway Sensor Interface can cover multiple applications at a single site. Additionally, **the Sensus Pressure Sensor Kit for OMNI+** combines with the Sensus Smart Gateway Sensor Interface and OMNI+ commercial water meters to provide knowledge of water pressure at almost any point in a water system.
- **Acoustic Leak Detection – Permalog+:** Permalog+ uses sound waves to monitor distribution lines and localize leaks. By detecting leaks and other flow problems, the Permalog+ aids in the conservation of millions of gallons of water, aiding in the discovery of lost revenue. Sensors

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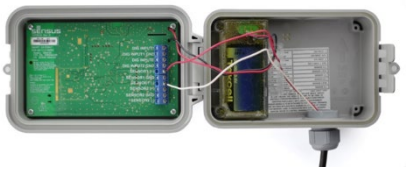
activate overnight, listening to the distribution system when ambient noise is at its lowest, then report pipeline conditions back to the utility via the Sensus FlexNet communication network. Once flow conditions are reported back through the network, the City can analyze the data to determine if a leak condition exists.

A Smart City Starts with Smart Infrastructure

The Sensus FlexNet solution now goes beyond the meter to provide for monitoring and intelligence across the entire municipal landscape to provide the foundation of a smart utility and smart city. With continual innovation addressing our customers' needs, Sensus has expanded its AMI solution into a full smart utility network solution that empowers cities across multiple functions and that serves as the robust, proven foundation for the smart city.

Sensor Monitoring - Any Time, Any Location, Any Sensor





The Sensus Smart Gateway Sensor Interface enables a wide range of applications for Sensus FlexNet customers. The Smart Gateway is a battery-powered FlexNet radio with four sensor inputs – two 4-20 mA inputs and two Form A digital inputs – that ties data seamlessly to the FlexNet Head End System.

The Smart Gateway empowers Sensus customers to use a wide variety of third-party sensors to monitor water quality, water distribution pressure, storm water, wastewater, and reclaimed water assets – using the same FlexNet infrastructure they utilize for meter reading.

The Smart Gateway is a battery-powered sensing technology that can connect to a variety of applications in all locations-even areas where no power or land-based communications are available. With the Smart Gateway sensor interface, you can leverage the FlexNet communication network to:

Monitor pressures, temperatures, levels, and switches remotely
Transmit and forward alarms to utility systems or individuals to resolve issues quickly
Analyze stored data to develop new insights into operating conditions
Applications for the Smart Gateway are many and include:

- Leak Reporting
- Lost Revenue
- Pressure Profile
- Demand Planning
- Hydraulic Management
- Flushing Management
- Water Loss Management
- Water Quality Management
- Energy Management
- Safety Management
- Storm Water Management
- Temperature Management

Remotely Monitor Water Levels in Reservoirs, Basins and more

Water level is a key piece of information for a water utility. With the Sensus Water Level Monitoring Kit combined with the Sensus Smart Gateway Sensor Interface, utilities can now remotely monitor and trend the level of almost any water surface in their system.

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Leveraging the FlexNet communication network through the Sensus Smart Gateway Sensor Interface, this ultrasonic, non-contact solution empowers utilities to monitor the level of water at rivers, reservoirs, open channels, basins, and other remote water facilities. Customizable alarms can be set to alert utilities to high and low water levels. Alarms can be transmitted and forwarded to utility systems or individuals allowing for proactive resolution. Additionally, water level data can be accumulated and analyzed to develop new insights into the operation of the water system.

The Water Level Monitoring kit is mounted above the water level and is designed to provide precise and efficient data transmission. Equipped with a one-year warranty, this advanced system offers remote liquid level status for crucial water surfaces, enabling proactive operation and maintenance. The kit comes complete with a transducer, transmitter, and handheld programmer, ensuring a seamless setup and operation. The sensor's ability to communicate key metrics remotely not only improves overall system efficiency but also significantly reduces operational costs and manual intervention. This innovative solution ensures that water management systems are more responsive and reliable, making it an invaluable tool for modern water infrastructure.

Pressure Management – Sensus Analytics Pressure Profile software application



The Sensus Analytics Pressure Profile software application provides full visibility of the City's water system with near real-time pressure data - empowering utilities to improve customer service, reduce wear and tear on aging infrastructure and enable more efficient operations. Integrated with the FlexNet communication network, the system transforms into a smart utility network through seamless data collection from the Ally smart water meters and pressure sensor kits. With remote pressure monitoring capabilities, Pressure Profile helps identify and alert utility crews to deviations in pressure throughout the community to prevent leakage and bursts.

Several deployment options are available to capture essential pressure data and device status. At the service connection, the City can deploy Ally residential smart water meters with integrated pressure monitoring capabilities to map the pressure at the user level. For OMNI+ commercial and industrial water meters, the Sensus Smart Gateway Sensor Interface works with attached pressure sensors and can be used to access pressure at the most critical users. For monitoring asset performance in the distribution system, the Sensus Smart Gateway Sensor Interface combined with the pressure sensor kits can be deployed on service and main lines, at pressure reducing valves (PRV), pump stations, and storage tanks. Sensors can be deployed anywhere in the system and provide the right data at the right time allowing the utility to make decisions with the utmost confidence.

Key Features:

- ESRI based map view with utility GIS layer integration.
- Explore and trend out pressure, total head and alarms.

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- User-configurable alarms
- Address search to quickly locate areas of interest.
- Captures low-pressure readings and sends alerts before failures can occur.
- Custom grouping for zone management, districts, water source, focus areas and service management.
- Three years of data storage

By integrating pressure sensors across the water distribution network, the AMI system can monitor and manage pressure levels. This data is crucial for maintaining optimal pressure, reducing the risk of pipe bursts, and ensuring consistent water delivery. Pressure management capabilities also support the identification of areas with potential pressure issues, guiding targeted maintenance and infrastructure improvements.

Leak Detection – Permalog®+ Acoustic Leak Detection System



The Permalog+ acoustic leak detector is an advanced device designed to detect and pinpoint leaks in water distribution networks. Utilizing sophisticated acoustic technology, the Permalog+ monitors the sound of water flow and identifies the distinctive noise patterns caused by leaks. Sensors activate overnight, listening to the distribution system when ambient noise is at its lowest. Through a direct protocol connection with the Sensus 520M SmartPoint, it features wireless communication capabilities with the FlexNet communication network, allowing for real-time data transmission to the AMI system. This enables rapid detection and response to potential leaks, significantly reducing water loss and operational costs. Once flow conditions are reported back through the network, the utility can analyze the data to determine if a leak condition exists. The Permalog+ is highly sensitive and can detect even small leaks that might otherwise go unnoticed, making it an invaluable tool for maintaining the integrity and efficiency of water infrastructure.

Installation is fast and easy. Permalog+ sensors magnetically attach to gate valves throughout your distribution system. This allows the sensors to be mounted temporarily or permanently. With as little as five data loggers per mile, far less than any other leak detection system, Permalog+ is a fast and economical way to proactively address current and potential leak conditions.

Integration with leak detection sensors provides critical data for identifying and addressing leaks in the water distribution system. This capability enhances the City's ability to detect leaks early, minimize water loss, and reduce repair costs.

Key Features:

- Acoustic Leak Detection: Utilizes sensors to detect the sound of leaks, pinpointing their location in the distribution network.
- Correlation Technology: Analyzes data from multiple sensors to accurately identify the leak's position.

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- Automated Alerts: Generates alerts when a leak is detected, enabling rapid response and minimizing water loss.
- Temporary or permanent mounting
- Seamless integration with FlexNet

Water Balance Monitoring – Water Operations Management and Reporting with Xylem Data Lake

Flow sensors installed at key points at the Water Treatment Plant and in the distribution network provide real-time data on water flow. This capability allows for accurate water balance monitoring, identifying discrepancies between water production and consumption that may indicate leaks, unauthorized usage, or other issues. The data collected can be used to generate detailed reports and alerts, enabling proactive management and reduction of non-revenue water.

Key Features:

- Leak Detection: Identifies and localizes potential leaks within the distribution network.
- Usage Monitoring: Tracks water usage patterns to detect anomalies and unauthorized consumption.
- Reporting and Alerts: Generates reports and sends alerts for detected discrepancies, allowing for prompt action.

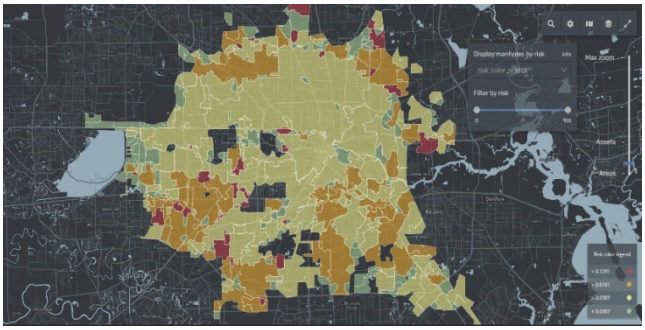
Sewer Flow Monitoring – Advanced Monitoring Solutions for Wastewater by CORE+



To support comprehensive water and wastewater management, Core & Main *can* offer additional integration of sewer flow monitoring capabilities. This solution provides detailed insights into the flow dynamics of the sewer system, aiding in the identification of inflow and infiltration issues, blockages, and capacity concerns.

Key Features:

- Real-Time Flow Monitoring: Measures sewer flow rates at various points in the network to provide accurate data on system performance.
- Inflow and Infiltration Detection: Identifies and locates potential sources of unwanted water entering the sewer system.
- Blockage Detection: Monitors flow patterns to detect potential blockages or restrictions in the sewer lines.
- Capacity Analysis: Provides data for evaluating system capacity and planning for infrastructure upgrades or maintenance.



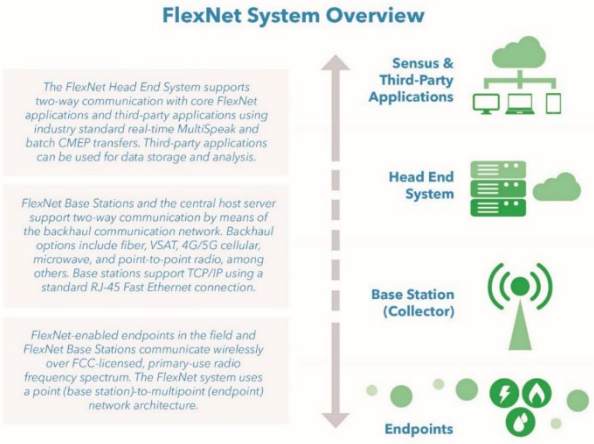
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- The integration of these non-meter devices into the AMI system enhances the City's ability to monitor, manage, and optimize its water distribution and sewer networks, providing actionable insights and improving overall system efficiency.

Communications Backbone: Sensus FlexNet

The Sensus FlexNet communication network will serve as the backbone of the proposed AMI system, providing a reliable, secure, and scalable platform for data transmission. FlexNet utilizes a licensed, point-to-multipoint radio network that operates on a dedicated FCC spectrum. This architecture offers extensive coverage with minimal infrastructure, requiring fewer base stations and repeaters compared to other network designs. The result is a cost-effective and efficient communication network that supports long-range data transmission across the City's water distribution system.

Data transmission over FlexNet is characterized by high bandwidth and low latency, ensuring real-time availability of meter data. Encrypted communication channels safeguard data integrity and privacy, protecting against unauthorized access and potential breaches. FlexNet's scalable design supports future expansion, accommodating increased data loads and additional devices as the City's AMI needs evolve. This flexibility makes it an ideal solution for both current and future requirements, providing a foundation for continuous improvement and innovation in water management.



Key Features:

- **Managed Services:** The managed services offering and ongoing year-over-year support for the system is directly with Sensus, the FlexNet communication provider.
- **Support Multiple Applications on a Single Communication Network:** FlexNet allows Wauchula to fully leverage assets with a complete AMI system that supports electric and water metering, DA, and other applications on a single communication network. The Sensus FlexNet solution is ideally and uniquely suited for combination utilities because it is the only AMI solution with a unified communication architecture that guarantees performance for both AMI applications while also providing unmatched support for Distribution Automation (DA), Demand Response (DR), Conservation Voltage Reduction (CVR), and Volt/Var Optimization (VVO), phase detection, load control, street lighting, and more.
- **Real-Time Monitoring and Analytics:** Provides real-time monitoring and analytics by processes incoming data to generate insights into water consumption patterns, detect anomalies such as leaks or meter tampering, and predict demand trends. This capability

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empowers utilities to make informed decisions promptly, improving operational efficiency and customer service.

- **Remote Device Management:** The FlexNet head-end system supports remote configuration and management of Sensus meters and modules. Utilities can remotely update firmware, adjust metering parameters, and troubleshoot issues without sending personnel to the field. This capability reduces operational costs, minimizes downtime, and ensures optimal performance of the entire AMI infrastructure.
- **Scalability and Flexibility**: Designed with scalability in mind, the FlexNet head-end system can accommodate the addition of new meters and devices as the city expands its water distribution network. It supports multi-application networks, allowing utilities to integrate various sensor technologies and expand functionalities beyond basic metering.
- **Data Security and Compliance:** The FlexNet head-end system employs robust security measures, including data encryption, secure communication protocols, and access controls.
- **Integration Capabilities**: Integration with third-party systems, such as Customer Information Systems (CIS) like Tyler, enhances operational synergy. The FlexNet head-end system facilitates seamless data exchange, ensuring that metering data integrates seamlessly into billing systems for accurate customer invoicing and revenue management.
- **Reliability and Performance**: With a proven track record in utility deployments worldwide, the FlexNet head-end system is known for its reliability and performance in diverse environmental conditions. It operates on a robust communication network that ensures high availability and data accuracy, even in challenging urban or remote settings.

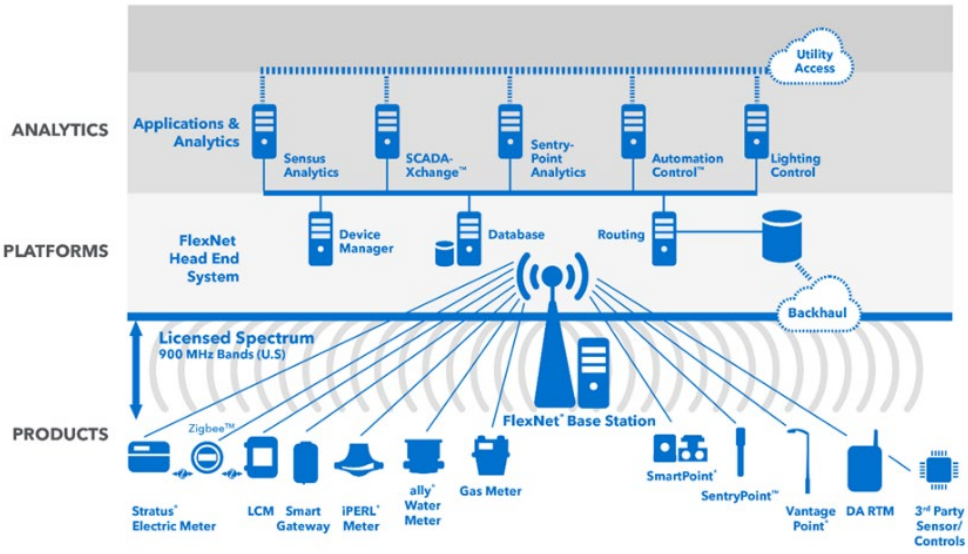


Figure: Devices Supported on the FlexNet System

Point-to-Multipoint Design

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Sensus' FlexNet system's point-to-multipoint design makes it the most flexible and scalable AMI system in the industry. It is also the only AMI system to readily accommodate Wauchula future bandwidth needs upon installation, without service interruptions or costly network reconfigurations. Its unique network design incorporates state-of-the-art, software-defined radios for AMI endpoints and collectors. The FlexNet AMI solution is differentiated from competitive offerings through its superior reach, configurability, expandability, security, and ability to support multiple applications on a single network.

In our point-to-multipoint FlexNet system, endpoints communicate directly to base stations, without relying on neighboring endpoints to send messages. This design ensures much lower latency and enables superior outage detection and restoral messaging to help with restoring power to City of Wauchula's utility customers. Sensus' point-to-multipoint technology also allows utilities to segment available spectrum into separate channels so that mission critical automation applications and devices can have a dedicated pathway; for instance, the DA communications will be placed on separate, dedicated RF channels enabling prioritization for SCADA automation data streams over the FlexNet network. With licensed spectrum and multi-channel optimization, you can prioritize time-sensitive applications, such as DA, DR, and remote disconnect/reconnect operations as well as alarms and alerts. This capability ensures that the applications are not forced to compete with other network traffic to get messages to the Head End System.

The ability to provide channelized spectrum is one of the essential characteristics that will allow Wauchula to achieve optimal AMI network performance using the FlexNet communication network. Open standards-based networks, built on multi-channel licensed spectrum, allow Wauchula to transcend the limits of unlicensed mesh AMI networks, and realize a consistent ROI over the course of a low-risk lifecycle.

The point-to-multipoint architecture allows for quicker, more flexible installation of endpoints because utilities can remove and replace individual endpoints at virtually any time and place without disrupting any other endpoints in the network. This network stability is also seen when a customer asks for their meter to opt-out of AMI. The Sensus Stratus IQ meter fully supports Wauchula opt-out solution, and the FlexNet network's communications will not be interrupted by having some number of meters installed with their RF transmissions disabled.

AMI Network Design for 100% Redundant Coverage

As reflected in the Propagation Study provided in the Appendix, we have proposed an AMI network design with multi-channel, full-duplex, two-way communications to all meters and other FlexNet-enabled devices in your territory, including full communication to at least one FlexNet base station and with a significant percentage of meters redundant to multiple base stations.

Meter Data Management: Sensus Analytics and Xylem Data Lake

Our proposed AMI system incorporates a suite of Sensus software solutions designed to achieve the City's objectives in data management, analytics, and customer engagement. Sensus Analytics, in conjunction with Xylem Data Lake (formerly known as Utility Data Lake), provides advanced data analytics, reporting, leak detection, and consumption analysis. This software solution enhances

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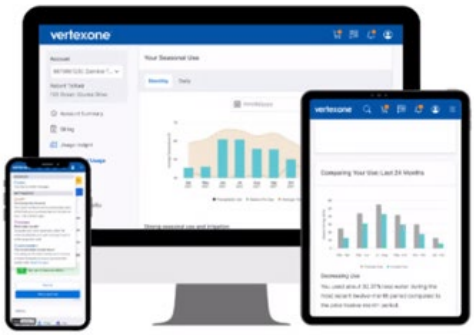
operational efficiency by offering actionable insights through comprehensive data visualization and intuitive dashboards. It enables City staff to make informed decisions based on accurate and timely information, improving overall water management.

Sensus Analytics is an advanced data analytics platform designed to optimize the management and operation of utility systems. By collecting and analyzing data from smart meters, sensors, and other connected devices, Sensus Analytics provides utilities with real-time insights into water usage. The platform features customizable dashboards, powerful reporting tools, and predictive analytics capabilities, enabling utilities to identify patterns, detect anomalies, and make informed decisions to improve efficiency and customer service. With its user-friendly interface and robust integration capabilities, Sensus Analytics supports seamless connectivity with existing systems, helping utilities reduce operational costs, enhance asset management, and ensure regulatory compliance. The platform also empowers customers with detailed usage information, promoting transparency and engagement.



Xylem Data Lake (XDL) is a powerful, cloud-based data management and analytics platform designed to centralize and analyze vast amounts of data from various water management systems and devices. It integrates data from meters, sensors, and other devices to provide comprehensive insights into water usage, system performance, and environmental conditions. By leveraging Sensus Analytics and Xylem Data Lake, utilities can make data-driven decisions, predict and prevent issues, optimize operations, and enhance customer service. With robust security measures, scalability, and interoperability, the platform supports seamless integration with existing systems and helps utilities achieve greater efficiency and sustainability in their water management practices. Xylem Data Lake stores data from all FlexNet devices and sources are stored in one centralized and secure repository to offer a complete picture of the entire system. With unfettered data access, this data tool gives the City the flexibility to choose how to view data at any time.

Web-based Customer Portal: VertexOne



As part of our comprehensive Advanced Metering Infrastructure (AMI) solution, we propose integrating the VertexOne web-based customer portal. The VXSmart Customer Portal is a SaaS solution hosted by VertexOne through AWS. VXSmart has 24/7/365 resources focused on their customer portal, with a dedicated development team. VXSmart has already integrated with FlexNet many times and has 100+ integrations with utilities in the United States and Canada.

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The VXSmart Customer Portal includes many customer-service features which are commodity agnostic and are used by electric, gas, and water utilities, including:

- Bill history
- View consumption
- Service order/history
- Form submission
- Update account/contact information
- Call deflection (payment arrangement
- View/pay bill
- Submit meter read
- Budget billing
- Communication engine
- Document repository
- Broadcast
- Promo campaign
- Marketplace

Features that are specifically for water utilities include:

- Leaks
- Water conservation
- Water budgets
- The various consumption dashboards
- Disaggregation
- Recommendations for savings

The VXSmart Customer Portal ingests the AMI data and displays it on computers, tablets, and mobile devices. The data flow between the FlexNet AMI system and the VXSmart Customer Portal is four times per day, via CMEP. The VXSmart solution is applicable to an end user-customer portal, utility dashboard, landlord portal, and contractor portal.

Integration with Tyler New World ERP System

To streamline operations and enhance data management, Core & Main proposes seamless integration with the Tyler New World ERP system. This integration will enable automatic synchronization of metering data, customer billing information, and operational workflows between the AMI system and the ERP platform. Key integration features include:

- Data Exchange: Automated transfer of meter readings, customer account details, and service orders between the AMI system and Tyler New World ERP, ensuring data consistency and accuracy.
- Billing Integration: Integration of metering data into the ERP system for accurate customer billing and revenue management.
- Operational Efficiency: Streamlined workflows and reduced manual data entry through integration, improving overall operational efficiency and reducing administrative overhead.

Key Benefits:

- Real-Time Data Sync: Ensures that meter readings and customer information are always up to date in both systems, facilitating prompt billing and customer service.
- Enhanced Accuracy: Minimizes errors associated with manual data entry and improves billing accuracy through automated data synchronization.

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- Operational Visibility: Provides comprehensive visibility into water consumption trends, customer usage patterns, and system performance through integrated reporting and analytics.
- Cost Savings: Reduces operational costs by eliminating duplicate data entry tasks and optimizing resource allocation based on real-time data insights.
- By integrating the AMI system with the Community Plus CIS, Core & Main enables the City to leverage advanced technology for more efficient utility management, enhanced customer service, and improved financial oversight.

Security

Core & Main prioritizes the security of data transmitted and stored within the AMI system, adhering to industry best practices and regulatory requirements. Our approach to data security includes:

- Encryption: Utilization of strong encryption protocols to secure data transmission between meters, modules, and the central system.
- Access Control: Implementation of robust access control measures to restrict system access based on user roles and responsibilities.
- Data Integrity: Continuous monitoring and validation of data integrity to ensure that information remains accurate and reliable.
- Cybersecurity Measures: Regular updates and maintenance of cybersecurity measures to protect against evolving threats and vulnerabilities.
- Compliance: Adherence to relevant data protection regulations and standards to safeguard customer data and ensure privacy.

By integrating these data security measures into the AMI system, Core & Main ensures that sensitive information remains protected from unauthorized access or breaches, maintaining the trust and confidence of the City of Wauchula and its customers.

Sensus' FlexNet AMI system supports and/or adhere numerous NIST standards including:

- Point-to-multipoint communication.
- ANSI
- UL
- FCC
- IEEE
- AES encryption
- Multi-Speak
- NERC-CIP
- FIPS
- IETF
- Zigbee
- DNP3
- American Gas Association
- OSHA
- ISA
- IP
- Matter
- ISCJWG
- NSF
- American Water Association

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Additional supported standards are:

- Compliance and Alignment with Recognized Standards Bodies
- NERC reliability – NERC-CIP 002-009, CIP---1, CIP-004
- Best practices such as NIST, ISO2700x, FIPS 140-2, NIST SP 800-53, NIST SP 800-82
- Open SG – AMI-SEC, NIST (IR 7628), SGIP, AMI-SEC, NEMA SG-AMI
- AMI-SEC
- NIST (IR 7628) Guidelines for Smart Grid Cyber Security
- SGIP
- NEMA SG-AMI

These standards and guidelines are all supported by the FlexNet system and have been superseded by newer standards. Our AMI solution incorporates IEC 62443 and other applicable NIST standards.

System Test Fixture

Core & Main understands the criticality of testing and validating the AMI system components before full deployment. As part of our proposal, we include a dedicated System Test Fixture to simulate real-world operating conditions and verify the functionality and interoperability of all hardware and software components. The System Test Fixture allows for comprehensive testing of metering accuracy, data transmission reliability, software performance, and system integration capabilities.

Key Features:

- Metering Accuracy Testing: Ensures that meters meet specified accuracy standards under various flow conditions.
- Data Transmission Reliability: Verifies the stability and consistency of data transmission from meters to the central system.
- Software Performance Testing: Assesses the functionality and responsiveness of AMI software applications, including data analytics and customer portal interfaces.
- Interoperability Testing: Validates the seamless integration of Sensus hardware and software with existing City systems, ensuring compatibility and data consistency.
- Portability: System test fixture mounted on a cart with wheels, holding tank, pump, piping and valves.

By employing a rigorous testing regimen with the System Test Fixture, Core & Main ensures that the AMI solution meets or exceeds the City's requirements for performance, reliability, and operational efficiency. This proactive approach minimizes deployment risks and ensures a smooth transition to enhanced water management capabilities.

Field Installation and Work Order Management System

Core & Main has developed a systematic approach to mass meter change-outs and installations to ensure a smooth transition to the proposed AMI system, minimizing disruption to the City of Wauchula's operations and customers. Our approach includes thorough planning, effective communication, and a detailed execution strategy:

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Project Management Approach:

Core & Main's Project Management Team will support the FlexNet AMI project deployment by providing scalable, strategic leadership for the full duration of the project. We partner with the utility's team to understand their processes, develop a project schedule, and manage the details of for the overall project plan based on knowledge gained from more than 1,900 AMR/AMI deployments spanning electric, water, and gas utilities across North America. Our goal is to keep the AMI project on schedule, saving time and money while delivering on the projects' commitments.

Our project management team provides professional, cooperative, and flexible leadership, ensuring a seamless AMI integration for every utility customer. We will provide program and project management services in accordance with the agreement between the parties, which may include the coordination and support outlined in the following list:

- Developing communication plans
- Developing risk registers and management plans
- Organizing pre-deployment planning and customer review meetings
- Developing project schedules
- Coordinating with Sensus' supply chain and all subcontractors to facilitate equipment ordering and fulfillment
- Assisting with base station site preparation (electrical, mechanical, communication)
- Assisting with base station installation, programming, and certification
- Installing and commissioning the Head End System
- Commissioning of the communication link between the base stations and the Head End System
- Testing the data transfer to the customer billing system
- Setting up the Head End System account
- Facilitating training sessions for installers and Head End System operators
- Assisting with ordering, shipping, Return Material Authorization (RMA), storing, installing, and programming the endpoints
- Optimizing the read performance for the endpoints
- Facilitating customer acceptance testing of the FlexNet system (phased acceptance) in accordance with the mutually developed Customer Acceptance Test Plan (CAP)
- Assisting with the operation of the deployed system for the duration of the network deployment

Planning and Coordination

The success of a mass meter change-out program depends on careful planning and coordination. Our team will collaborate closely with City of Wauchula stakeholders to develop a detailed project plan that outlines the scope, timeline, and resource requirements. Key planning activities include:

- Site Surveys: Conducting preliminary site surveys to assess existing meter installations and identify any specific requirements or challenges.

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- Scheduling: Developing a phased installation schedule that minimizes disruption to residents and ensures efficient use of resources.
- Inventory Management: Ensuring that all meters, endpoints, and installation materials are available and properly inventoried to support uninterrupted installation progress.

Communication and Customer Engagement

Effective communication with residents is essential to the success of the meter change-out program. Core & Main has partnered with the Valerin Group to implement a comprehensive public outreach and communications strategy that includes:

- Advance Notifications: Providing advance notice to residents about the upcoming meter replacements, including information on what to expect and any required preparations.
- Appointment Scheduling: Offering flexible appointment scheduling options to accommodate residents' availability and minimize inconvenience.
- Customer Support: Establishing a dedicated customer support line to address any questions or concerns from residents during the installation process.

Installation Execution

The installation phase is executed by Bermex' highly trained technicians who follow standardized procedures to ensure efficient and high-quality meter installations:

- Pre-Installation Inspections: Performing inspections of existing meter installations to identify any issues that need to be addressed prior to the new meter installation.
- Meter Replacement: Removing existing meters and installing new Sensus meters and endpoints. Each installation is documented to ensure accurate records of meter replacements.
- Data Integration: Integrating new meters into the Sensus FlexNet system and verifying data transmission and accuracy. This step includes syncing the new meters with the City's AMI System for real-time data collection and monitoring.
- Quality Assurance: Conducting quality assurance checks to verify that all installations meet the required standards and that the meters are functioning correctly.

Post-Installation Support

After the installation, the Core & Main Team will provide ongoing support to ensure the new meters and AMI system operate smoothly:

- Follow-Up Visits: Scheduling follow-up visits to address any issues or adjustments required after the initial installation.
- Performance Monitoring: Monitoring the performance of the new meters and addressing any discrepancies or issues that may arise.

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- Customer Feedback: Gathering feedback from residents to identify areas for improvement and enhance the overall installation experience.

Safety and Compliance

Safety and compliance are integral to our installation approach. Core & Main adheres to all relevant safety standards and regulations, ensuring that our installation practices meet or exceed industry requirements. Our technicians are trained in best practices for safe meter installations, including proper handling of equipment and materials, and adherence to safety protocols.

By implementing a well-organized and systematic approach to mass meter change-outs and installations, Core & Main ensures a seamless transition to the new AMI system, enhancing water management capabilities while minimizing disruption to the City and its customers.

Software-as-a-Service (SaaS)

Under the SaaS model, Sensus will manage the Head End System in our secure data center. Our team of experts will be responsible for the day-to-day monitoring, maintenance and management of the software application, servers, and database. Our highly trained professionals are responsible for ensuring that your system is always operating at peak performance. Sensus monitors the utility's servers around the clock to ensure high availability and reliability. Our data center teams perform all hardware maintenance and software patch installation, updates, and upgrades to ensure that your team has access to all the latest features and capabilities that FlexNet has to offer. Sensus guarantees 99% or higher application availability (uptime). Notably, the Head End System has observed availability of greater than 99.5% in SaaS production environments.

SaaS Disaster Recovery

Sensus SaaS customers receive disaster recovery instances in our world-class Tier IV data centers as a standard component of the service.

Sensus currently operates two active and geographically dispersed data centers in North America. Data centers are connected over high-speed, private-line communication with data synchronization. Sensus maintains SAS-70 type 2 certification for all US data centers. Facilities are manned around the clock, with redundant power, communication, and generators. Two-factor authentication is required for access. There is no single point of failure in any layer of the disaster recovery infrastructure.

All existing Sensus SaaS customers currently have near-real time replication on multiple live data centers. For these data centers, the recovery time objective (RTO) is 48 hours. The recovery point objective (RPO) is 24 hours. If desired, Sensus is open to discuss enhanced RTO and RPO target levels, with reduced times available at an additional charge.

Ongoing CORE+ Managed Services

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Core & Main's CORE+ Managed Services Plan outlines our strategy for integrating the proposed Sensus hardware and software with the City's existing systems, while minimizing risk and administrative burden. Our integration strategy employs an API-driven approach to facilitate seamless connectivity between Sensus systems and existing City infrastructure. This method ensures smooth data flow and compatibility with current systems, reducing the need for extensive reconfiguration and minimizing the risk of operational disruptions.

The managed services administration component of our CORE+ plan includes hosted application software, proactive network monitoring, data management, system maintenance, and dedicated technical support. An additional scope of work can include managed field services incorporating the water meters, endpoints and edge devices into the CORE+ plan. This comprehensive service offering provides a turnkey solution that relieves City staff from the complexities of system upkeep, allowing them to focus on core municipal functions. By providing continuous support and system maintenance, we ensure consistent performance and reliability of the AMI system.

Risk mitigation is a key focus of our CORE+ plan. We incorporate redundancy, robust backup protocols, and comprehensive training for City staff to minimize potential points of failure and ensure operational continuity. Our approach reduces the impact of unforeseen issues and enhances the resilience of the AMI system, providing peace of mind and stability for the City's water management operations.

Conclusion

Core & Main is committed to delivering a comprehensive and integrated AMI solution that meets the City of Wauchula's current needs and prepares for future challenges in water and electric system management. Implementing AMI systems presents a transformative opportunity for utilities to enhance their operational efficiency, customer service, and overall water management capabilities. Solutions like the Sensus FlexNet communication network, paired with high-precision water meters such as the iPERL, Ally, OMNI+ and Cordonel, and electric meters such as StratusIQ (residential) and Aclara KV2C (Commercial), ensure accurate, real-time data collection and transmission. These technologies facilitate proactive maintenance, rapid leak detection, and effective resource management, ultimately leading to substantial cost savings and improved service reliability.

The integration of advanced analytics platforms, such as Sensus Analytics, further empowers utilities by providing deep insights into consumption patterns, system performance, and potential issues. These insights enable utilities to make data-driven decisions, optimize resource allocation, and enhance customer engagement through detailed usage reports and alerts. The addition of tools like Xylem Data Lake, the Smart Gateway Sensor Interface and Permalog+ acoustic leak detectors complement these capabilities, offering robust data management and precise detection solutions. As utilities face increasing demands for efficiency and sustainability, these integrated AMI solutions offer a comprehensive approach to modern water management, ensuring long-term operational excellence and customer satisfaction.

By choosing Core & Main to implement these advanced technologies, the City of Wauchula positions itself at the forefront of innovation, addressing current challenges while preparing for future demands. The combination of reliable hardware, sophisticated software, and expert support ensures a seamless transition to a more efficient and responsive water management system. Our

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comprehensive suite of solutions represents a significant step forward in the evolution of utility management, delivering unparalleled benefits that extend from the operational core to the end consumer. We look forward to partnering with the City of Wauchula to implement a state-of-the-art AMI system that supports sustainable water practices and enhances quality of service for residents and businesses alike.

For further details regarding technical specifications, pricing information, and additional services, please refer to the accompanying RFP table submittals.

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4 CUTOVER PLAN

We recognize that billing operations cannot take a back seat to a meter change out. With the FlexNet AMI system and our experience with the Tyler ERP Pro billing system, we are confident that business continuity can be maintained during meter deployment. Below is a sample task list detailing a framework for how this process would work during the deployment phase and is derived from experience in working with the Tyler ERP Pro and FlexNet systems. Note that this is a preliminary sample which would be customized to accommodate Wauchula's specific requirements or concerns.

Preparation for Reading, Project Kickoff - Onward

- Network collector infrastructure is deployed and operational prior to beginning meter change out.
- Billing activity is expected to take place during change out activity and should be identified and scheduled as part of the change out activity. Necessary resources are allocated to assist with this process.
- Installed meters are verified for network connectivity on regular intervals during installation process.
- Engage Tyler ERP Pro to verify data interchange format, read importation format, and any Wauchula specific requirements.

Preparation for Reading, 1-2 Days Prior to Read Window

Project manager shall:

- Make sure all completed meter change out records are imported to Tyler ERP Pro via WOMS integration.
- Verify Head End System connectivity of recent change outs and identify any meters that need investigation.
- Meters slated for change out on read day are identified so that final reads can be collected from installation staff for billing purposes.

Billing Window / Read Day(s)

Integration to Billing Software: Core & Main and Sensus understand that one of the first steps in the AMI system rollout will be the integration of the Head End System software to Wauchula's billing software.

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Using Demo Board for integration Testing: Core & Main and Sensus understand that the testing of integration from Sensus Analytics to Tyler ERP Pro will utilize the Demo Board. Core & Main and Sensus will work with Wauchula and Tyler ERP Pro to accomplish this testing.

Meters not yet changed out: These are read via legacy means (AMR, etc.) and imported to Tyler ERP Pro using current business process.

Meters changed out during the monthly reading activities: New meter change out data is not processed until the bill run is complete for the month. Final or exit readings taken from the existing meter will be collected by project management staff and merged with Tyler ERP Pro billing import file.

Re-Reads / Re-checks: While these are expected to be rare, confidence in billing is of the utmost importance, and project management staff will be available to answer any questions or to investigate any possible anomalies.

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5 MANDATORY PROPOSAL REQUIREMENTS

The following set of requirements are mandatory. Failure to comply with any of the below requirements may result in disqualification.

Table 5-1. Mandatory Requirements

Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.1	No proposal shall be accepted from, nor will any contract be awarded to, any Supplier who is in arrears to the City upon any debt, fee, tax, or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City, or who is otherwise determined to be irresponsible or unreliable by the City.	X		
M.5.2	All Suppliers, including the Suppliers' subcontractors, must be qualified and licensed under the laws, rules, and regulations of the State of Florida to perform the work required by these contract documents.	X		We will work with two customers to ensure you receive an on-site demonstration.

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.3	Failure to properly complete the proposal and required forms and requested data shall result in disqualification, including: • File formats that are not word searchable via commonly available desktop software (i.e., MS Office, Adobe Acrobat, etc.). • Failure to use the proposal forms furnished by the City. • Failure to provide signatures as requested by authorized representatives on proposal form(s).	X		
M.5.4	Submittal issues such as: • Evidence or suspicion of collusion among Proposers. • Unauthorized alteration of proposal forms. • Violation of the City's purchasing rules, Florida statutory requirements, or the requirements of this RFP.	X		
M5.5	The Supplier shall satisfactorily complete all Standard submittal forms.	X		

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.6	The proposed solution must include a managed software as a service (SaaS) offering with a minimum of a 10-year contract period.	X		
M.5.7	The proposed solution must include a managed network (NaaS) with a minimum 10-year contract period as a service offering.	X		
M.5.8	The Supplier must have five or more US customers using software as a service/network as a service during the last 5 years.	X		
M.5.9	The Supplier's system must support remote firmware upgrades on each type of endpoint device and have successfully executed this capability previously in a production environment.	X		
M.5.10	The proposed solution must support remote meter reads without needing site visits or drive-by activity.	X		
M.5.11	The proposed solution must support a customer portal with the ability to display quantities and required alerts (see Table 13-5)	X		
M.5.12	The Supplier must provide a system test fixture (see Table 12-1) as part of the proposed solution.	X		

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.13	The Supplier's proposed solution must include field installation services for both electric and water accounts along with any required water meter pit remediation.	X		
M.5.14	The proposed solution must interface with the City's Tyler ERP Pro system in such a manner as to provide an equivalent set of billing inputs with minimal disruption to existing City processes.	X		Integration with Sensus FlexNet system will provide minimal disruption of existing City processes.
M.5.15	All network and field devices (including metering endpoints) associated with the Supplier's system must not interfere with the City's lift station radios or SCADA system. SCADA system for electric uses cellular routers that are 4G LTE and is IP-based utilizing bands B2, B4, B5, B12, B13, B14, B77, and B71. SCADA system for WWTP / WTP is protected with some being cellular based and some internet based. The guarded SCADA frequency range for the WWTP / WTP is 2400 HZ.	X		The Sensus FlexNet system operates on a FCC primary licensed frequency outside of any lift station radios or SCADA systems.

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.16	The City strongly desires a single Supplier contract with sole responsibility for all project phases, including the provision of long-term managed services. It is a mandatory requirement that the technology owner/developer be the contract signatory on the long-term managed services agreement. Please include a sample managed services agreement as supplemental information supporting this mandatory requirement.	X		See sample Sensus SaaS Agreement in Attachment C of the Appendix.
M.5.17	The Supplier of the managed services offering and the ongoing year-over-year support for the system must be the technology provider of the AMI software systems.	X		Core & Main is a Value-added reseller of the Sensus AMI System

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Rqmt. #	Requirement	Comply		Comments / Clarifications
		YES	NO	
M.5.18	The Supplier of all software integrations to City systems must be the technology provider of the AMI software systems. The technology owner/developer must supply a project manager / prime resource to support and oversee the entire system integration effort including statement of work, design, development, FSAT testing, and acceptance. Please elaborate on the team structure being proposed for software integrations.	X		Sensus will provide a project lead for the setup and integration of the Sensus Software. Core & Main will provide a project manager for the installation of the project.
M.5.19	The technology Supplier shall provide initial training and ensure ongoing training is available for the system's life.	X		Core & Main will provide initial training and ongoing training for the life of the system. Sensus offers free online training Sensus Training (sensus-training.com)

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6 CLARIFICATIONS, ASSUMPTIONS, AND EXCEPTIONS

Qualifications of Core & Main LP
Submitted to the City of Wauchula
RFP 24-05 AMI System Implementation

Notwithstanding anything contained in any bid or contract documents to the contrary, Core & Main LP ("Core & Main") hereby qualifies its bid as follows. The bid of Core & Main and acceptance by Core & Main of any subsequent agreement is made expressly conditioned upon assent by the City of Wauchula, FL (the "Owner"), to the following additional or different terms, which shall supersede and control over the terms of any request for bid or request for proposal, any contract documents and specifications, and any prior addenda thereto:

1. Price Lock: Core & Main reserves the right to increase prices at any time in the event of a manufacturer or subcontractor price increase. Core & Main will provide evidence of the manufacturer's or subcontractor's price increase and will only increase its prices by the same percentage the manufacturer's or subcontractor's prices increase. In the event the Owner objects to the price increase, the Owner will delete the affected materials or services from the contract and neither party will have any further obligation to the other with respect to the materials or services removed from the contract except the Owner will be obligated to pay for materials or services delivered.

2. Warranty: The extent of the warranty to be provided for this project is set forth in the attached City of Wauchula Warranty.

3. Insurance: To the extent provided in its policy, Core & Main LP ("Core & Main") will only be able to provide a certificate of insurance, endorsements and coverage that are current form and meet industry standards subject to agreement by Core & Main's insurance provider, with such coverage to be in place until final completion of the project. A Memorandum of Insurance is attached to demonstrate the level of coverage carried by Core & Main. Insurance coverage provided by Core & Main will be consistent with the provisions of Core & Main's policy, notwithstanding any differing or conflicting provisions in any bid or contract documents. Insurance limits may be satisfied by a combination of General Liability and Excess/Umbrella coverage. General aggregate limits apply per location. Core & Main will not be required to provide Builder's Risk, Pollution Liability, or any coverage other than the coverage identified in its certificate of insurance. Neither Core & Main nor its subcontractors or suppliers will be required to provide copies of their respective insurance policies. Notwithstanding anything contained in any bid documents or contract documents to the contrary, by acceptance of Core & Main's bid or proposal, the Owner accepts Core & Main's certificate of insurance in full compliance with all insurance requirements, including but not limited to notice provisions, coverage, language, policy limits, policy forms, self-insured retention and deductible amounts.

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The parties agree that Core & Main's insurance is provided on a contributory basis, and is primary, but only to the extent of the products, services, and operations of Core & Main LP.

4. Terms and Conditions, Par. 3.5.2 – Environmental Indemnity: Delete this paragraph entirely.

5. Terms and Conditions, Par. 3.5.3.I. – Delete this paragraph entirely.

6. Terms and Conditions, Par. 3.5.4.A. – In the first sentence, delete the phrase, "Final Acceptance of the work" and replace with, "delivery." In the last sentence, delete the phrase, "until such time that the Owner issues written notice of Final Acceptance of the work."

7. Terms and Conditions, Par. 3.15.4.B. – Delete the last sentence of this paragraph entirely.

8. Terms and Conditions, Par. 3.16.1 – Intellectual Property: Delete this section, including all subparagraphs, entirely.

9. Terms and Conditions, Par. 3.17.4 – Competent Performance of the Work: Delete this section entirely. The terms under which the Owner will be permitted to take over the work due to Contractor's default will be negotiated and agreed between the parties in the agreement resulting from this solicitation.

10. Core & Main reserves the right to negotiate contract terms and conditions mutually agreeable to both parties. If the parties are unable to reach an agreement on contract terms, the parties will have the right to discontinue negotiations for the project. In that event, neither party will have any further obligation or liability to the other arising out of this solicitation or the RFP response, Core & Main will not be in default of any obligations under the bid or contract documents and Core & Main will not forfeit its bid security.

Dated this ___27__ day of August, 2024.

CORE & MAIN LP



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COMPLETED RFP TABLES (SECTIONS 7 – 21)

Complete all tables by supplying "Comply (Yes, No)" indications for each requirement as well as comments and clarifications as needed.

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7 CUSTOMER ENGAGEMENT

Please fill out the table below.

Table 7-1. Customer Engagement

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
7.1	The Proposer shall describe its experience with and approach to developing customer engagement plans.	X		Our team member, The Valerin Group, Inc. (Valerin), a full-service and woman-owned communications firm, has developed and implemented hundreds of Public Engagement and Outreach Plans for public infrastructure projects and programs for agencies including counties, municipalities, expressway and transit authorities, planning organizations and the Florida Department of Transportation (FDOT). For this project, Valerin will develop a detailed Customer Engagement Plan that is tailored to the specifics of the project. Key elements of the plan will include the development of outreach strategies, identifying engagement activities and providing an outline of tools, tactics, techniques, and technology to effectively communicate with the City of Wauchula's customers. The objective of the plan will be to notify applicable agencies, affected property owners and tenants of project specifics and anticipated impacts. It will also identify potential issues and anticipated community concerns as well as strategies to address them, including developing Frequently Asked Questions (FAQs) at the start of the project. The plan will serve as our communications blueprint and will be updated as needed throughout the duration of the project.
7.2	The Supplier must support at least 1 day on-site for the City's "AMI Day" meeting with residents.	X		Our team is adept at planning and coordinating virtual and in-person public meetings and events. The date and time of the "AMI Day" meeting with residents are to be determined. However, Valerin will work with the City to ensure that the meeting is advertised in a timely manner via the City's website, social media platforms, post cards, etc. Valerin will also be available to coordinate with the City to provide support identifying an ADA compliant event site, if requested by the City.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				An appropriate number of Valerin personnel will be on hand to assist and support the City of Wauchula, including event setup and breakdown of event.
7.3	The Supplier must support 1 day on-site for a City Commission Meeting.	X		Valerin will support the project team and City staff by attending a designated City Commission meeting. Support may include but is not limited to preparing a presentation, if needed, note taking and developing a meeting summary.
7.4	The Supplier's installer must print advance notification customer communication materials, such as postcards. The content of these mailers will be developed in collaboration with the City. The Supplier must manage the timing and mailing of these materials to provide at least 14 days of notice to customers before installation.	X		Valerin will work with the City to create notification mailers, such as post cards, that are in “plain language” and will ensure they are compliant with the American with Disabilities Act (ADA) standards. The mailers will comply with the City’s branding guidelines. The draft of the mailer will be provided to the City for review and approval well in advance of the minimum 14-day notice to customers (prior to meter installation), to allow for review and feedback, if needed. Approved notices will be mailed out by Valerin to ensure delivery to customers at least 14 days prior to their installation date. Valerin will also work with the City to develop a direct mailing list that will be maintained and used to notify customers during the project.
7.5	The Supplier must print door hangers that installers will distribute at residential locations during successful and attempted installations. The content of these door hangers will be developed in collaboration with the City.	X		Valerin will work with the City to create door hangers that are informative, easy to understand, and contain contact information. They will also be developed to follow City branding guidelines. The door hangers will be printed, folded in half and inserted into plastic door hanger bags and provided to the installers for placement on residential door handles during successful and attempted meter installation activities. Valerin will work closely with the contractor and City to clearly convey installation expectations and requirements to customers.
7.6	The Proposer shall provide recommendations for additional marketing material based on its experience.	X		Additional marketing materials can include Frequently Asked Questions (FAQs), a project fact sheet, posters with QR codes, inserts and onserts as part of the water bill, and development of content for placement on the City’s social media platforms and website. Based on customer demographics, Valerin can translate material in Spanish, French, etc., if needed.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
7.7	The Proposer shall describe other options for customer engagement, if applicable.	X		In addition to standard/traditional customer engagement, our team also identifies and attends community events as well as provides project-related information (fact sheet, etc.) at locations such as libraries, community centers, places of worship, senior centers, etc. For example, our team can setup a booth and/or disseminate project information at local community events. Our team can also partner with neighborhood associations and special interest groups and attend regular meetings to provide them with project updates and answer questions. These activities and stakeholder communications are documented in a project-specific stakeholder database that can produce reports upon request by the City.

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8 AMI ELECTRIC METERS

8.1 General Features

Please fill out the table below.

Table 8-1. General Features

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.1	Define the meter manufacturer (by form if different manufacturers).	X		Sensus' supply chain partner, Flextronics, manufactures the Sensus Stratus IQ residential meter for Sensus. Sensus collaborates with third-party meter manufacturers to produce FlexNet-enabled electric meters. We partner with Aclara to manufacture I-210+c single phase meters and kV2c polyphase meters for FlexNet deployments. We also partner with Honeywell to produce FlexNet-enabled ALPHA A3 polyphase meters. We have worked with our partners to seamlessly integrate our FlexNet communication modules into their meter manufacturing processes. Their facilities have well-established production capabilities and processes to ensure the integrated meters meet Sensus' quality standards. Please refer to the Tables 1-4 provided in the Appendix: Attachment K for specific Meter Forms by Manufacturer.
8.1.2	Primary single-phase meter as offered shall have been in production for more than a year at time of proposal. Proposer shall provide number of units shipped in the last 12 months.	X		Sensus Stratus IQ meters have been in production for more than three years. The Sensus Stratus IQ is the enhanced version of our Stratus residential meter, featuring several innovations and expanded capabilities, including leading edge tamper and safety provisions as suggested by our customers. Sensus has shipped 6 million Stratus meters to date. Sensus' production line has the capacity to manufacture over 1 million Stratus meters annually. Sensus has shipped Stratus and Sensus Stratus IQ meters to utilities of various sizes across North America.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.3	Single-phase meters shall be available from at least two different manufacturers. Identify which manufacturers' meters and models are supported.	X		The proposed FlexNet solution supports single-phase meters from two different meter manufacturers: 1. Sensus Stratus IQ 2. Aclara I-120+c Please refer to Tables 1&2 provided in Attachment K of the Appendix for specific Meter Forms by Manufacturer.
8.1.4	Meters shall be solid-state ANSI compliant with a configurable minimum six-digit (not including identifiers) scrolling LCD display for residential meters, six digits for commercial meters.	X		All proposed residential and commercial meters are solid state, and their LCD displays all support 6 digits, not including identifiers.
8.1.5	Meters shall include an integrated "under the glass" communications module compatible with the AMI system.	X		Each FlexNet-enabled electric meter includes an" under the glass" SmartPoint communication module, which is installed in the meter at its respective factory during manufacture.
8.1.6	Meter manufacturer shall supply a sample nameplate for each meter form for the City's approval prior to meter shipment. Specific nameplate colors or meter numbering shall be available for each form and class if requested by the City.	X		Our solution complies with this requirement.
8.1.7	All meters including the communications module shall be tested at the factory and shipped with the test report.	X		The FlexNet SmartPoint is installed in the electric meters during manufacturing. All meters are programmed with WAUCHULA 's approved meter program and fully tested at the factory. Factory certified test results are sent electronically when the meters ship.
8.1.8	Meters shall ship from the factory pre-programmed. The program shall be approved by the City.	X		Each electric meter is shipped with your approved program, which is installed at the factory.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.9	All three-phase meters shall be available with an optional ANSI C12.18 compliant optical port for local reading and programming.	X		Our solution complies with this requirement.
8.1.10	Single-phase and 12S meters shall include a port for configuration and reading. There should be a means to remotely disable and enable the port.	X		The Sensus Stratus IQ meter supports an optical port that can be disabled, if desired.
8.1.11	Meter shall support over the air and local F/W updates for both meter and communications related firmware. Meter shall have F/W rollback capability. Proposer shall describe this functionality. Meter shall continue to meter during firmware update.	X		All proposed electric meters support both local and remote over-the-air firmware updates for both the meter and FlexNet transceiver. During a firmware download, the meter will continue to operate and measure normally. Firmware rollbacks are supported by downloading the desired firmware file into the meter or FlexNet transceiver. The same firmware process is used and can be performed locally or remotely over-the-air.
8.1.12	Single-phase meters shall include a 200A bi-stable latching disconnect switch matching the rating of the meter.	X		The Sensus Stratus IQ meter has a bi-stable service switch design which remains in its current state regardless of whether it is powered up or not.
8.1.13	Disconnect switch can be remotely operated via AMI system, RF tool, or optical port. Switch shall not connect if there is load side voltage. Meter shall provide an alarm in this case.		X	The Head End System supports remote connect/disconnect of an electric meter's service switch. Field operation of the switch is supported with a laptop and FlexNet microtransceiver. Operation of the service switch via the optical port is not supported. Load Side Sense (LSS) is supported for meters equipped with a service switch. Any attempt to close and open service switch with voltage present on the load side will trigger the switch to send a LSS alarm to the Head End System. The switch will remain open if LSS is triggered.
8.1.14	Meter shall be able to be programmed to perform a self-read, as well as a demand reset at a specific time and day of the month.	X		Our solution complies with this requirement.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.1.15	Proposer shall describe the meter losses during normal operation.	X		Sensus Stratus IQ Meter Burden: Form 2S - Power Supply < 0.8 watts/7.9VA @ 240VAC Aclara kV2c Meter Burden: 120V 2.2W 3.5VA 240V 2.8W 6.6VA 277V 2.4W 6.8VA Current Circuit Burden < 0.25 VA per phase
8.1.16	Meter shall use nonvolatile memory for storing data.	X		Our solution complies with this requirement.
8.1.17	Meter shall support voltage monitoring and profiling. Proposer to describe these voltage measurement capabilities.	X		All FlexNet-enabled meters have voltage monitoring capabilities, including load profile profiling and the ability to monitor and send alarms if voltages exceed configured voltage threshold limits for a configurable amount of time. Voltage can be selected for one of the load profile registers to support the ability to log voltage readings over time and graph this information in the software. The utility can set the high- or low-voltage threshold levels they prefer to best inform them of voltage events out on their distribution feeders. This enables the utility's engineers to better understand which (high/low) voltage events are occurring throughout the utility's service territory. A voltage alarm will be triggered when the voltage crosses the set threshold level. Typical voltage accuracy is +/-2 V.
8.1.18	Mechanical demand reset mechanism shall be provided as an option.	X		The Aclara kV2c meter may be ordered with a demand reset. Pricing is available upon request.
8.1.19	Does the meter manufacturer require a first article customer approval process? If so, describe that process.	X		Electric meters require a first article meter for the meter types WAUCHULA plans to order. Sensus technical experts will work with your team to develop the meter programs and nameplates for all your electric meters. Then, Sensus will make a few first article meters of each type for your meter shop to approve.

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8.2 Ratings and Standards

Please fill out the table below.

Table 8-2. Ratings and Standards

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.2.1	All meters shall comply with the current versions of the following ANSI industry standards: ANSI C12.1, C12.10, C12.19, C12.20, and C37.90.1.	X		Our solution complies with this requirement.
8.2.2	Meters shall comply with UL 2735. If this requires a higher cost meter than what would otherwise be needed to meet this specification, Proposer may also quote a non-UL-listed option in addition to the UL-listed meter.	X		All electric meters supported in the FlexNet system have passed UL 2735 testing.
8.2.3	Meters shall comply with IEC 61000-4-4 and C62.45.	X		Sensus tests to ANSI C12.1-2008 / C12.20-2010; Test Case #25 (Effect of electrical fast transient/burst test), which is harmonized with IEC 61000-4-4. C62.45 is no longer an active standard.
8.2.4	Meters shall comply with applicable FCC standards.	X		Our solution complies with this requirement.
8.2.5	Temperature range. -40 to +85 degrees C.	X		Our solution complies with this requirement.
8.2.6	Frequency: 60Hz.	X		Our solution complies with this requirement.
8.2.7	ANSI C12.20 accuracy class 0.5 or better for residential meters, class 0.2 for commercial meters.	X		Our solution complies with this requirement.

8.3 Metered Quantities

Please fill out the table below.

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Table 8-3. Metered Quantities

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.3.1	Energy: Wh, VAh or VARh (delivered, received, sum, net)	X		Our solution complies with this requirement. Please note Aclara meters and Honeywell meters feature meter keys that enable certain functionality. These options are included in the pricing spreadsheet.
8.3.2	Max demand: W, VA, VAR. (Specify if demand is rolling or block)	X		Both rolling and block demand calculations are supported with the appropriate meter keys enabled for Aclara and Honeywell meters.
8.3.3	Current (commercial meters only), Voltage, Power factor, Watts, Vars	X		Yes, all of these measurements are supported by the Aclara kV2c meter with the appropriate meter keys enabled. Voltage, pf, and watts are standard capabilities.
8.3.4	Time of use: min 4 seasons, 4 rates, 4 switch points for energy quantities required. If proposing non-TOU meters, describe how the system can calculate TOU billing determinants from interval data.	X		All proposed electric meters support TOU.
8.3.5	Interval data: min 4 channel 35 days, 15 min intervals - configurable to 5, 15, 30, or 60 min intervals	X		Our solution complies with this requirement.

8.4 Electric Meter AMI System Functionality

Please fill out the table below.

Table 8-4. Electric Meter AMI System Functionality

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.4.1	Meter shall support system functionality described in the specification. Advanced metering functionality that is not available to the head-end over the AMI	X		Sensus acknowledges this requirement.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	network is not to be considered when identifying compliance.			
8.4.2	Meter shall be able to receive encrypted messages via the physical port, the AMI system, and if available, an RF tool as part of the AMI system.		X	All FlexNet communications support encryption. The FlexNet system supports an AES 256-bit encryption. Encrypted over-the-air communication is supported from the Head End software to the FlexNet Transceiver in the meter. Electric meter optical ports are compliant with ANSI C12.18 password-based security standards; they do not support encryption.
8.4.3	All supplied integrated meter types shall support auto registration to the AMI system. Proposer shall describe diagnostics information provided by the meter upon meter installation. Proposer is asked to describe the process used during installation.	X		When electric meters are installed, they auto-register on the FlexNet system. Electric meters require no special preparation before installation to communicate on the FlexNet network. After installation, each meter automatically sends a series of messages, informing the Head End System that it is installed and operational including its configuration settings. The Head End System uses these messages to automatically register the endpoint. Once the Head End System registers a meter, it automatically begins storing meter data. When a meter order is shipped to the utility, a factory file with all the relevant meter data is sent to the utility's inventory department for use in incoming inspection. Another file is also sent for your Head End System. Once the Head End System registers that a meter has been installed, it updates the meter's state from an "uninstalled" state to an "installed" state. This field process is automatic. Sensus will import factory files to your Head End System during the project and train WAUCHULA employees in this process.
8.4.4	Meter shall support time synchronization via the AMI system and locally.	X		In the FlexNet system, base stations are responsible for maintaining time across the entire network. All base stations are equipped with a GPS device that ensures alignment to NIST time standards. A base station will broadcast a time synchronization message every 15

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				minutes; this approach ensures highly accurate timing across the network for electric meters -- typically better than 50 milliseconds. All endpoints receive the base station time sync message directly, so there is no need to have a complicated method for managing time through multiple other endpoints, as is used in some AMI systems.
8.4.5	Meter shall support a method for local verification that it has successfully joined the AMI network.	X		FlexNet supports local verification that a meter has registered on the network once this has been accomplished.
8.4.6	Meter shall include a mechanism to send an outage message after a user-definable interval when it has lost power. (Note that the state of Florida considers any interruption longer than 1 minute to be a sustained outage.) Proposer shall describe this functionality.	X		FlexNet-enabled meters support the ability to set a user defined time for declaring a permanent outage. A one-minute setting is supported. Once this time has expired, the FlexNet transceiver, powered by its on-board supercapacitor, sends four outage messages spread over a 10-minute span.
8.4.7	Meter shall support remote meter configuration by way of the AMI network and RF field tool. Proposer shall describe the parameters that are programmable.	X		Both remote over-the-air and local meter configuration of electric meters is supported in FlexNet. Sensus uses a total replacement approach for upgrading a meter's configuration. Updates are sent to the FlexNet transceiver which manages the configuration update for the meter. This process is like the one used for updating a meter's firmware.
8.4.8	Supplier shall provide the City with a file per meter shipment identifying all attributes for each electric meter shipped for installation into the Head End System.	X		At the time of "order acknowledgement", the utility receives a notification confirming the Style # and Specification ID # of the build characteristics of the meter for their review and acknowledgement, along with a unique order and line number for that specific meter. Just prior to shipping, WAUCHULA will receive the meter test information, as well as manufacturers information files (which will also be preloaded into your Head End System to allow for seamless incorporation of the meter into your network), thereby eliminating manual input and potential for human error.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				At the time of shipping, you will be notified of the specific order and line numbers included in the shipment, along with the Part #s, to allow for cross reference against the initial order acknowledgement.
8.4.9	Describe the transmission of electricity meter data up to the head-end. Discuss frequency of reading and interval data transmission as well as events and alarms.	X		FlexNet features dedicated alarm RF channels for sending critical alarm messages directly to the Head End System in real time, which separates these messages from other message types (including billing reads and interval data). The FlexNet system uses a point to multipoint design where the meters and other endpoints communicate directly to the network. Meters manage their programmed read intervals and transmission times. At the programmed time, meters transmit their billing reads to network base stations which forward them immediately to the FlexNet Head End System. These automatically transmitted messages deliver a wide variety of message types to the head end system including interval readings, daily register readings, load profile data, and alarm information. Sensus experts will work closely with your team to develop your meter programs which will include the load profile settings and transmit intervals for send billing data to the base stations. The proposed electric meters support 5-, 15-, 30-, and 60-minute load profile interval data logging. FlexNet supports configurable data transmission rates from 5 minutes to 24 hours.
8.4.10	System shall provide the ability to identify which phase (A,B,C) each meter is associated with.	X		Phase Detection is one of the many value-added solutions enabled by Sensus brand meters. Our Professional Services team delivers this solution as a service when needed. Typically, utilities pay for an agreed number of phase detection studies per year for maintenance but may also request the service impromptu to help recover their system following disruptive events.

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8.5 Electric Meter Alarms and Events

Please fill out the table below.

Table 8-5. Meter Alarms and Events

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
8.5.1	Provide a list of all meter events and alarms. Events and alarms shall be available and resettable via the AMI network, RF tool, and optical port if the meter is so equipped.	X		Alarms and events can be configured remotely via multiple methods. Details regarding specific alarms and events for each proposed meter are provided in Attachment E: Meter Events and Alarms.
8.5.2	Reverse Energy: The meter shall detect reverse power flow on an integrated meter programmed or operating as a non-net energy integrated meter or non-bidirectional integrated energy meter.	X		Reverse energy detection is a configurable feature. The meter sets an alarm flag indicating reverse energy detection for a non-net meter. This alarm is reported in the Head End System software.
8.5.3	Meter shall alarm on tilt.	X		The Sensus Stratus IQ meter supports a tilt detection alarm. The meter also features a patented electronic tamper detection provides a positive proof method of identifying when an energized meter is removed from the meter socket.
8.5.4	Meter shall alarm on tilt/outage combination indicative of meter removal from socket.	X		In the Sensus Stratus IQ meter, our patented electronic tamper detection provides a positive proof method of identifying when an energized meter is removed from the meter socket.
8.5.5	Meter shall alarm on attempted magnetic tamper.	X		The Sensus Stratus IQ meter sends a magnetic tamper alarm when a magnetic field is detected. Sensus testing confirmed that a magnetic field alarm was generated by the meter in all magnetic field tests. WAUCHULA can use these alarms to inform your tamper Investigations department for further investigation at the service. These findings were validated by a battery of magnetic field tests that Sensus performed at our Testing LAB in Morrisville, NC. A variety of configurations using magnetic fields generated by a rare earth magnet with a remanence of up to 14,800 gauss were run to generate these findings.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				The Sensus Stratus IQ meter utilizes air core di/dt sensors, which are immune to DC magnetic fields.
8.5.6	Meter shall alarm if voltage is outside of set limits.	X		All proposed electric meters support the ability to set voltage sags and swell thresholds. Once the line voltage goes above or below these set levels, the meter will transmit a voltage sag/swell message to the Head End System software.
8.5.7	For three-phase meters: The meter shall monitor per phase voltages, currents, and phase angles to detect incorrect polarity or incorrect phase sequencing.	X		Aclara and Honeywell three-phase meters support these capabilities with the proper meter key enabled.
8.5.8	Specify additional meter alarms or functionality in the meter that the City may utilize.	X		Details regarding meter alarms and functionality are provided in Attachment A: Product Data Sheets and Attachment E: Meter Events and Alarms.

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9 AMI WATER METERS AND MODULES

Please fill out the table below.

Table 9-1. AMI: Water Meters and Modules

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.1	A 20-year battery life is required for all battery-powered field devices. Please note that this section applies not just to water meters: If your architecture includes other battery-powered devices, such as repeaters. 1. Describe all conditions on the 20-year warranty. 2. Provide the reading frequency that the battery life warranty is based on and other battery-life-impacting activities such as firmware updates, LP interval length, frequency of on-request reads, and (if available) remote disconnect/reconnect. 3. For the water meter communications module battery warranty, state the approach taken for a failed battery (replace module, module, register, etc.). 4. If module only, state the assumption for this, such as if there will be cut wires and splice in a new module. (Cut wires and splicing *are not* preferred. A module that connects to the meter register with a waterproof inductive coupling or a highly		X	The G-500 warranty document, which is included in the Appendix, provides specific product life and battery warranty details. **Water SmartPoints** • Water SmartPoint communication modules have been designed for easy, streamlined installation and activation. • The 520M SmartPoint communication module is designed for pit-set environments and is available for both single- and dual-port operation. The 520M SmartPoint is installed through the pit lid to maximize performance in fixed base applications. The module can be installed with either a TouchCoupler connection or wire connection, with the former being recommended to avoid water intrusion concerns for wire terminations. • The 510M SmartPoint communication module is for non-submersible/non-pit installations. The 510M SmartPoint utilizes TouchCoupler, the patented Sensus inductive coupling communication platform, to interface with the encoded meter. With TouchCoupler, the 510M SmartPoint can connect to the meter using existing two-wire AMR installations instead of requiring utilities to

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	water-resistant connection such as a Nicor *is* preferred.)			access the home to install a new three-wire system. This results in a fast, efficient, and reliable connection at minimal cost. • Battery-powered water SmartPoint communication modules are protected by a 20-year warranty based on the default setting of collecting the meter data every hour and transmitting the data every 4 hours. These reading/transmission rates are configurable but deviating from the default setting will impact the warranty. • The 20-year warranty is based upon one on-demand read per month and five firmware downloads. Exceeding these number may impact battery life. • 520M SmartPoint modules are fully sealed and do not have replaceable batteries. Any battery failure or other covered condition will be replaced with a NEW module including a NEW warranty. • The warranty provides a no cost replacement for first 15 years and a prorated replacement cost for years 16 to 20. **ally® meter** • ally® Meters that register water flow are warranted to perform to the accuracy level set forth in the ally Data Sheet available at sensus.com for fifteen (15) years from the Date of Installation, but no longer than sixteen (16) years from date of manufacture, not including the meter's sensors, valve, and gear motor, which are warranted under different terms described below. As used herein, "Date of Installation" means the date after which the ally Meter has been out of

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	

empty pipe for seven (7) consecutive days, as those days are measured by the ally Meter and stored in the meter's nonvolatile memory.

- Ally meter batteries and components have the following warranties:

Batteries – 15 years
Sensors – 5 years
Valve and Gear Motor – 5 years
SmartPoint modules and batteries in service w/ ally meter – 15 years.
SmartPoint modules used with an ally meter are warranted based on the following uses:

- Default installation setting of six transmissions of billing data and pressure per day
- One update of temperature per day
- Five firmware upgrades for SmartPoint module and five for the ally meter
- 2,500 operational commands (demand reads, ally valve command, or a configuration command)
- 15 diagnostic commands

SmartPoint warranty has 10 years at no cost and a prorated cost for years 11 to 15.

** notwithstanding the foregoing, valve and gear motor component of ally meters are not warranty beyond 2,000 valve state operations even if the warranty period provided has not yet expired.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	

- Ally meters are fully sealed and do not have replaceable batteries. Any battery failure or other covered condition will be replaced with a NEW module including a NEW warranty.

iPERL® meter

- iPERL® Meters that register water flow are warranted to perform to the accuracy levels set forth in the iPERL Data Sheet available at sensus.com for twenty (20) years from the date of Sensus shipment.
- iPERL meters are fully sealed and do not have replaceable batteries. Any battery failure or other covered condition will be replaced with a NEW module including a NEW warranty.
- Sensus will repair or replace non-performing iPERL System Batteries, and/or the iPERL System flowtube, the flow sensing and data processing assemblies, and the register ("iPERL System Components") with hourly reads, at no cost for the first fifteen (15) years from the date of Sensus shipment, and for the remaining five (5) years at a prorated percentage, applied towards the published list price in effect for the year the product is accepted by Sensus under the warranty conditions

SRII meter

SR II® and accuSTREAM™ 5/8", 3/4" & 1" Meters are warranted to perform to new meter accuracy level set forth in the SR II and accuSTREAM Data Sheets available at sensus.com for five (5) years from the date

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Rqmt. #	Requirement Description	Comply YES	Comply NO	Comments / Clarifications
				of Sensus shipment or until the registration shown below, whichever occurs first. Sensus further warrants that the SR II and accuSTREAM meters will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first: New Meter Accuracy 5/8" SR II Meter and accuSTREAM Meter — 500,000 gallons — 1,500,000 gallons 3/4" SR II Meter and accuSTREAM Meter — 750,000 gallons — 2,250,000 gallons 1" SR II Meter and accuSTREAM Meter — 1,000,000 gallons — 3,000,000 gallons • Electronic Register+™ are warranted to be free from defects in material and workmanship from the date of Sensus shipment for a period of 20 years. • Sensus will repair or replace non-performing Sensus Electronic Register+™ with hourly reads for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions **Cordonel® meter** • Cordonel® meters that register water flow are warranted to perform to the accuracy levels set forth in the iPERL Data Sheet available at sensus.com for twenty (20) years from the date of Sensus shipment.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	• Cordonel® meters are fully sealed and do not have replaceable batteries. Any battery failure or other covered condition will be replaced with a NEW module including a NEW warranty. • Sensus will repair or replace non-performing Cordonel® System Batteries, and/or the Cordonel® System flowtube, the flow sensing and data processing assemblies, and the register ("Cordonel® System Components") with hourly reads, at no cost for the first fifteen (15) years from the date of Sensus shipment, and for the remaining five (5) years at a prorated percentage, applied towards the published list price in effect for the year the product is accepted by Sensus under the warranty conditions **OMNI+ meter** • Omni+ registers are fully sealed and do not have replaceable batteries. Any battery failure or other covered condition will be replaced with a NEW module including a NEW warranty. • Omni+ registers are warranted to be free from defects in material and workmanship from the date of Sensus shipment for 10 years. The warranty provides a no cost replacement for the full 10 years. **Smart Gateway** One year warranty • Warranty valid only for analog meter sample rate of 4 times per hour with hourly transmit rate or greater for the analog channel(s).

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.2	Water meter bodies should be warranted for a minimum of 10 years for full replacement with a 5-to-10-year period starting in year 11, where the warranty declines on a prorated basis.	X		The G-500 warranty document, which is included in the Appendix , provides specific product life and battery warranty details. **iPERL® meter** – 20-year life expectancy and warranty **ally® meter** – 15-year life expectancy and warranty • iPERL and ally Connectors and Cables are warranted to be free from defects in materials and workmanship, under normal use and service, for ten (10) years from the date of Sensus shipment. **SRII meter** – 25-year warranty on maincases. 20-year life expectancy and warranty on Electronic Register+. New meter accuracy standards for 5 years or specified registration, whichever occurs first. Repaired meter accuracy standards for 15 years or specified registration, whichever occurs first. **Cordonel® meter** – 12-month warranty on maincases and replacement measuring chambers. Maincase life expectancy is 20 years. **Omni+ meter** – 18-month warranty on maincases and replacement measuring chambers. Maincase life expectancy is 10+ years. Measuring chamber life expectancy by new meter and repaired meter accuracy as specified registration which are variable per size and type.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.3	The Proposer will provide the material of the proposed meter body (e.g., brass, poly, etc.).	X		Core & Main / Sensus will be providing a polymeter body IPerl. We do have the ability to provide a metal body IPerl should that be the Utilities preference but the cost may vary. The current offering meets all LCRR compliance requirements along with NSF61 & 372 requirements. The metal iPERL+ meter body has a flow tube that is comprised of lead-free bronze alloy with a composite polymer core with an electronic register. The OMNI+ meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the “floating ball” impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high pressure o-ring, testing port and an AWWA compliant strainer.
9.4	The Proposer shall provide displacement and non-displacement (e.g., electromagnetic, ultrasonic) metering options in the pricing sheet.	X		OMNI+ Electronic Register The OMNI+ electronic register is hermetically sealed with an electronic pickup containing no mechanical gearing. The OMNI+ register features a programmable totalizer registration, an optional digital pulse signal, AMI/ AMR reading digits, and a resettable test totalizer. The large, easy-to-read LCD also displays both forward and reverse flow directions. The OMNI+ tamper-proof security cover can be positioned in any of 270 degrees of rotation, with indexing points at each of the 90-degree customary register viewing positions. Magnetic Drive Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the “floating ball” impeller. Measuring Element The hydro-dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI+ C² meter Cordonel® Ultrasonic C&I water meter Cordonel® is an innovative ultrasonic C&I water meter with patented flow technology that measures low- to high-volume flow

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				with unmatched accuracy. Equipped with pressure and temperature sensing, alarms, and data storage, it fills a critical need in commercial, industrial, and irrigation markets
9.5	Battery life and status information must be transmitted to the head-end. Describe the battery life information transmitted by the water module, including the transmission frequency.	X		Every 4 hours, as part of its normal transmission process, the SmartPoint communication module measures its battery voltage and temperature under load. This information is then transmitted to the Head End System, where the data is stored. The current battery voltage for each SmartPoint is also displayed on its individual meter information page in the Head End System, along with other important information. If the battery voltage is less than 3.3 volts, a Low Battery alarm is triggered at the SmartPoint. This alarm is transmitted to the Head End System, where it can generate a Low Battery report. The Low Battery alarm field can be monitored daily by automating this alarm report within the software. The Low Battery alarm typically gives the user a minimum of 6 to 12 months' worth of advance warning of a critical battery condition.
9.6	Water meter nameplates should be customizable. Describe how meter/module labels or nameplates can be customized for the City as part of this project.		X	Sensus uses a standard label for water metering products. If changes are needed to this standard label, our team is willing to discuss this option.
9.7	AMI modules shall also be labeled with the manufacturer's name, ID number, date of manufacture, and any required FCC labeling.		X	Sensus uses a standard label for water metering products. If changes are needed to this standard label, our team is willing to discuss options during contract negotiations.
9.8	The City has six bulk metering points in its water system. The Supplier shall provide an appropriate bulk metering solution for water balance computations, invoice validation, and net leak detection, but not for billing. The solution shall provide appropriate scaling or translation to result in a metered quantity delivered to the head end system. Proposer		X	Sensus supports retrofitting to third-party meters according to the included compatibility data sheet. Incompatible registers require new compatible replacement registers and/or UME where applicable, provided by WAUCHULA . Otherwise, replacement with new Sensus meter is recommended.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	shall provide pricing for the proposed solution in the pricing sheet.			
9.9	The City has approximately 500 newer Kamstrup FlowIQ 2100 and 3101 ultrasonic meters with the iTron cable/plug that it would like to retrofit with an AMI communication module. Proposer to provide a solution to allow these meters to be read by the proposed AMI system. Provide what quantities and features your proposed AMI solution can retrieve from the meter.	X		The FlexNet system supports the ability to use the Sensus 520M SmartPoint to communicate data from the Kamstrup FlowIQ water meter through the system. This will utilize alarms which are built into the Sensus SmartPoint.
9.10	Residential meters shall be available from at least two different manufacturers. Identify which manufacturers' meters are supported.	X		The FlexNet system supports multiple water meters via our adaptable SmartPoints, which can be installed on a wide variety of water meters. A list of compatible manufactures is included in Attachment S: Meter Compatibility Guide.
9.11	The meter/module must be capable of accepting a tamper seal.	X		Our solution complies with this requirement.
9.12	The module's firmware must be remotely upgradable from the head-end system and handheld devices. Describe all remote firmware and configuration capabilities of the water modules. Describe the process to affect these updates.	X		Firmware can be upgraded over-the-air (OTA) via FlexNet or onsite using a handheld device. Remote firmware upgrades and configuration changes can be uploaded to individual meters, to groups of meters, or to entire meter populations. Sensus uses a total replacement approach for upgrading firmware files. Updates are sent to the SmartPoint communication module as individual packets. The Head End System individually notifies each SmartPoint participating in the firmware download before initiating packet delivery. The packets are securely broadcasted to accelerate firmware download when delivering packets to multiple endpoints. Endpoints selected to receive the firmware upgrade accept the packets; unselected endpoints ignore the packets.
9.13	Modules shall support 60-minute interval recording periods. Describe the duration of		X	The standard water SmartPoint has a meter sample rate of every hour with a transmit rate of every four hours to provide the 20-year warranty.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	interval data (in months and days) that can be stored.			Sensus offers a water SmartPoint with a one-year warranty that allows the utility to sample the meter read every 5 minutes and transmit every 30, 45 or 60 minutes. The interval definitions can be factory-configured and modified from the Head End System. The Head End System retains 60 days of data, a timeframe that is sufficient to ensure data redundancy, delivery to the appropriate applications, and for troubleshooting purposes. Also, Sensus Analytics provides standard data retention of 36 months with extended times available.
9.14	On-request reads from the head-end to the water meter must be possible. Describe on-request water read functionality and time for data to be returned to the head-end.	X		SmartPoints provide the ability to conduct on-demand reads from water meters. We have designed use cases for fast responses from single meters or small batches of meters where the information is needed quickly, as well as supporting large batch on-demand requests. The FlexNet system automatically uses the fastest means based on the number of meters in each on-demand request. The first two use cases below use individual queries to each of the respective meters, and these are completed one at a time. The third option which is designed for large batch requests, uses a parallel strategy where all meters are queried simultaneously after the last billing read transmission, which occurs every four hours. Should a utility CIS representative need to ping a water meter while on the phone with a customer, FlexNet supports fast on-demand responses. Typically, the on-demand read will be received by the CIS rep in 60 to 90 seconds when the smartpoint is in MOM mode. (Middle of Minute) For the use case where up to 240 meters are being researched and an on-demand read is needed, the on-demand read response is about one minute per meter. For larger batch on-demand read requests, FlexNet uses a parallel communication strategy – listen after talk (LAT). This method returns the requested on-demand reads in about four hours.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.15	On-request reads shall obtain an up-to-the-minute reading from the meter. If this requirement is not met, state where the reading is obtained (e.g., communication module, data concentrator, etc.) and the maximum age of the reading under normal operating conditions.	X		On-demand reads for water meters return the current 'on the glass' read from the meter to provide the most current data available.
9.16	Describe the approach to starting to read for meter and register changes or how old meter reads are handled if new registers start at zero.	X		Replacement meters and registers have unique identification numbers. The changes are typically captured in the installation vendor's standard work order management process. The meter/register change is a standard process handled within common Billing/CIS systems
9.17	The module shall support the collection of register interval data from all meters.	X		Our solution complies with this requirement.
9.18	The module shall support the collection of water pressure and temperature readings from meters/devices that provide it.			SmartPoints support Sensus Ally and Cordonel meters for water pressure and temperature. An alternative is to use the Smart Gateway to integrate with "other" devices to bring back temperature and pressure from a wide variety of devices.
9.19	Water meters and modules shall transmit digital register reads rather than pulse counts.	X		Register reads are transmitted electronically.
9.20	Water meters/modules must provide leak detection. Describe this detection capability.	X		SmartPoint modules support leak detection. The alarm has configurable leak detection parameters that can be set upon installation, and later modified over the air or during a site visit to the meter. Leak detection on the SmartPoint is effective with any compatible meter make or model – either Sensus meters or third-party meters. Leak detection is configurable both for the amount of water in any given interval and for the number of continuous intervals. For example, the SmartPoint can send a leak alert when 1 cubic foot of water per hour has flowed through the meter for 24 hours in a row. Both the amount of water and number of hours are configurable. Any amount that can be detected and reported by the meter can be set for the leak threshold. For example, with Sensus meters, this amount is configurable down to

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				0.01 cubic feet per hour, 0.1 cubic feet per hour, 1 cubic foot per hour, 10 cubic feet per hour, and so on. Several settings for duration are also available: 24 hours, 48 hours, 72 hours, and so on. **High Flow Alarm** The SmartPoint communication module also features a high flow alarm, which can be set to send an alarm whenever a certain high amount of water goes through the meter in any given interval. The threshold is configurable, and can be set by meter size, or any other value to flag usage that is higher than usual for that metered service. **Meter Generated Alarms** Sensus water meters provide continuous consumption alerts which are user configurable. These alerts are transmitted to the Head End System. **Flow Monitoring via Customer Portal** Sensus is proposing our Customer Portal so your customers can set their own customized leak alert thresholds. For instance, customers can temporarily lower the leak threshold when they are going out of town on vacation. FlexNet can detect continuous consumption based around a customer's configurable parameters. This is accomplished through FlexNet's leak detection capabilities. Sensus provides several leak detection mechanisms to alert utility personnel, and even the consumer directly, of possible leaks at the residence or business.
9.21	Water modules shall be readable by the head-end system and the Supplier-recommended handheld devices.	X		SmartPoints can be read remotely from the Head End System or locally using a handheld device.
9.22	Water modules shall be synced to within 30 seconds of system time. Interval data must be time-stamped. Elapsed time is not acceptable.	X		The Head End System stores the actual time of an event in its database. Time is in UTC time and converted to local time in the Head End System's GUIs for user access.
9.23	Water modules shall transmit a cut wire occurrence.	X		Our solution complies with this requirement.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.24	Describe all water disconnect/reconnect capabilities available, including meter sizes on which this feature is available, whether the valve is integral to the meter or separate, impact on box size, and flow control options provided (e.g., on, off, restricted flow)	X		Sensus' ally water meter is equipped with a 3-state ball valve (open, closed, reduced flow), a temperature sensor, a pressure sensor, and a self-cleaning algorithm for the valve. The valve in internal to the meter. The ally meter does not require a separate SmartPoint, as a FlexNet communication module is built into the meter. The ally water meter is available in 5/8", 5/8 x 3/4" and 3/4" sizes. A 1" version of the ally meter is currently on the Sensus roadmap. **Remote Service Shut off, Turn on, and Reduced Flow Capabilities** Sensus' ally meter is equipped with a three-state (on, off, and reduced flow) valve that allows for remote control of service connections. With just a few clicks, utilities can turn off, turn on, or reduce the flow of water to satisfy a range of use cases: • **Turn on** water services for new customer accounts or resume services for existing customers. • **Turn off** water services for inactive customer accounts. **Reduce** water services for delinquent accounts to minimize further revenue loss without imposing public health risks.
9.25	Describe the network topology for water meters—star connection, pt-to-pt, mesh through meter, etc.	X		FlexNet is a star topology, point-to-multipoint network design that uses FCC-licensed, primary-use spectrum. This spectrum is 100% primary use for Sensus solutions; through FCC-licensed regulations, no other entities are allowed to use the exclusive RF frequencies that we will assign to your FlexNet system for your service territory. Sensus will license your RF frequencies to you for the life of your FlexNet system. Endpoints, including water meters and SmartPoints, communicate directly to all nearby base stations all the time, 24x7x365.
9.26	Does the meter manufacturer require a first-article customer approval process? If so, describe that process.	X		SmartPoints are programmed on-site as a part of their installation in the field. No first article meters are required.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.27	Describe all data transmitted from water modules, including register data, interval data, events (be specific), and alarms (be specific).	X		The Sensus AMI system transmits meter readings, hourly consumption data, and alarms for leak detection, reverse flow, empty pipe, magnetic tampering, and low battery.
9.28	Describe all backflow indication/prevention capabilities of the proposed water meters.	X		All proposed water meters and SmartPoints include backflow alarms that are triggered during true backflow events. If the meter is reversed, the backflow alarm can be used to indicate potential water theft.
9.29	Describe the data encryption provided by water modules.	X		Sensus has designed our security encryption to use the same AES-256 bit encryption for all our solutions – including FlexNet-equipped water meters and SmartPoints.
9.30	Describe the module antenna configuration and how through-the-lid mounting is accomplished.			The 520M is designed for submersible, pit-set environments, and mounts through the pit lid. Several options are available for facilitating the SmartPoint's installation, including drilling the existing lids. In this case, the antenna (at top) mounts above the pit lid and the SmartPoint attaches to the antenna from underneath the lid.  *SmartPoint 520M Pit Set Module*

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
9.31	Describe the module battery replacement process, if any.	X		The SmartPoint has a 20-year warranty which includes the battery. The battery is not replaceable; instead, a module with a low battery may be returned under warranty for another SmartPoint.
9.32	Describe the minimum clearance needed between the top of the meter and the bottom of the box lid.	X		Minimal clearance from meter box lid bottom to top of installed meter is required, enough so that the lid is not resting on the meter. Standard AMI box lids offset the position of the AMI module so that it is not installed directly over the top of the meter below, thus having no impact to installation requirements. If the meter is not properly centered within the box or positioning otherwise requires the AMI module to be installed directly above the highest point of meter, clearance should be sufficient, so the module is not resting on the meter. The module has a total height of 5.09". Approximately 4 5/8" should be accounted for from mounting surface to bottom of module.
9.33	Describe the transmission of water data up to the head-end. Discuss the frequency of reading and interval data transmission, as well as events and alarms.	X		The standard water SmartPoint has an hourly meter sample rate with a transmit rate of every four hours (6 times a day). Events and alarms are transmitted to the Head End System when they occur. Sensus offers a water SmartPoint that allows the utility to sample the meter read every 5 minutes and transmit every 30, 45, or 60 minutes. This version has a reduced warranty due to higher battery usage.
9.34	List all water meters that the Proposer's module is compatible with and specifically identify the proposed meters for this proposal.	X		The SmartPoint communication module is compatible with several encoder register types, including those manufactured by Badger, Master Meter, Mueller, and Neptune. For a full chart of meters and registers that are compatible with the water SmartPoint, please refer Attachment F: Water SmartPoint Compatibility Guide.
9.35	Provide the operating temperature range in degrees Fahrenheit for the water module.	X		The 520M SmartPoint features an operating temperature range of - 22° F to +185° F
9.36	Specify additional alarms or functionality in the module that the City may use.	X		SmartPoints provide the following alarms for water meters: • Swapped Meter • Continuous Flow • High Flow

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	• Meter Communication Failure • Non-numeric Read Backflow/Reverse Flow Bidirectional Communication Failed.
9.37	Provide expected meter body lifetime per supported meter.			**iPERL® meter** – 20-year life expectancy and warranty **ally® meter** – 15-year life expectancy and warranty • iPERL and ally Connectors and Cables are warranted to be free from defects in materials and workmanship, under normal use and service, for ten (10) years from the date of Sensus shipment. **SRII meter** – 25-year warranty on maincases. 20-year life expectancy and warranty on Electronic Register+. New meter accuracy standards for 5 years or specified registration, whichever occurs first. Repaired meter accuracy standards for 15 years or specified registration, whichever occurs first. **Cordonel® meter** – 12-month warranty on maincases and replacement measuring chambers. Maincase life expectancy is 20 years. **Omni+ meter** – 18-month warranty on maincases and replacement measuring chambers. Maincase life expectancy is 10+ years. Measuring chamber life expectancy by new meter and repaired meter accuracy as specified registration which are variable per size and type.

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10 NON-METER DEVICES

Please fill out the table below.

Table 10-1. Non-Meter Devices

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
10.1	State the manufacturer of non-metering devices (e.g., pressure detection, leak detection, gateway devices) if different from the Proposer.	X		Sensus directly manufactures base stations, SmartPoints, the Smart Gateway endpoint, Distribution Automation endpoints, and Sensus Head End System, and Sensus Analytics software. Load Control Modules are manufactured by EnTek at their facility in Florida. Lighting modules are manufactured by Itron at their factory in Ireland. The DA Fault Current Indicator (FCI) is produced by Horstmann at their factory in Germany.
10.2	Describe the data collection method offered (e.g., point-to-multipoint transceiver). Please provide the functionality of these devices and the installed base of each device type.	X		FlexNet uses a point-to-multipoint design in which each FlexNet-enabled endpoint in the field communicates directly to all nearby base stations all the time. Proposed endpoints include: Smart Gateway – Sensus manufacturers; a few thousand installed; Enables 4-20 mA and digital state inputs from a wide variety of 3rd party devices to bring their data to the Head End System Lighting Module – Itron manufacturers; thousands installed; Enables over the air on/off control of WAUCHULA lights; Dimming supported on fixtures supporting this capability. DA endpoints: T866, RTM II+ – Sensus manufacturers; greater than 10,000 installed; Enables WAUCHULA to extend the functionality of their SCADA system out on the distribution system. Electric applications include integration with and remote monitoring and control of reclosers, capacitor bank, and regulators.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				Load Control Modules (LCMs) – EnTek manufactures; greater than 10,000 installed. Enables demand response programs for WAUCHULA end customers to reduce system peak load by enabling utility aggregate control of large customer loads like A/C units, water heaters, and irrigation systems.
10.3	Describe how the functionality of each non-metering device is supported at the system level.	X		The Head End System receives all in-coming non-metering messages (as well as metering messages) from the devices installed on your FlexNet network. Data received is stored in the Head End System with numerous reports and views to access the data available to authorized City personnel.
10.4	Indicate whether the devices UL Listed.	X		The residential LCM has UL approval. Other devices designed for non-customer installations do not.
10.5	System must support a load control device/solution that is minimally capable of interrupting one 30-amp device. This includes A/C units, hot water heaters, and pool pumps. Describe this functionality and the numbers of LC devices per premise that can be controlled.	X		LCMs are equipped with on-board relays, including 5-amp relays and a 30-amp relay. Each can be programmed and operated independently – supporting up to three on premise equipment types depending on the model selected.
10.6	Describe the electrical characteristics of LC devices including their amperage interrupt capability, tamper detection, etc.	X		The LCM solution comes in 240 V residential and 480 V irrigation versions. LCMs typically have three relays – one 30 A and two 5 A. The Head End System monitors whether the LCM participates in demand response events or not.
10.7	LC functionality shall include a cold load pickup strategy such as randomization over a defined time frame. Describe this and other load management functions offered.	X		The LCM's cold load picked strategy is designed into the LCM. Today, the LCM has a soft coded cold load pickup time option of around 15 minutes. This delay allows the LCM to delay its load reconnecting to the distribution system for a period after normal feeder loads have been reenergized following an outage to help reduce the initial loading on the distribution feeder when power is restored.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				This time delay enables the LCM to receive a time sync message from a base station following a power outage to confirm whether it is in a DR event or not. LCMs are initially set up and configured as a part of their installation. The Head End System supports full over-the-air configuration of LCMs in the field including setting up DR events, initiation of DR events, and monitoring LCM participation in the events. LCMs can store up to 5 future DR events in on-board memory.
10.8	For a specified load control device, describe any customer override capabilities for LC actions and how the system is made aware of and processes those actions.	X		Today, customers can opt out of DR events by requesting WAUCHULA to opt out them out of DR events temporarily. This requires utility personnel to remove them for the time requested from the Head End System's DR events and add them back later at agreed time.
10.9	Describe the extent to which non-metering devices have been incorporated into the AMI head-end system.	X		The listed non-metering devices have been fully incorporated into the Head End System. DA endpoints are operated using the purpose designed Automation Control Head End Software which is designed for highly available DA applications including integration with WAUCHULA 's SCADA system via its real-time DNP3 protocol API.
10.10	Describe any pricing level interaction capability from customer to the City including demand response, CPP, etc.	X		FlexNet supports several demand response solutions, including TOU, load control modules (LCMs), conservation voltage reduction (CVR), ZigBee based HAN devices, and Prepayment. For pricing level interaction, the system becomes more complex. Sensus has integrated with many other third-party systems and thus, our Professional Services team is prepared to scope out and implement these types of solutions which are not standard offerings and are not a part of our current RFP response. When WAUCHULA is ready to implement one of the demand response solutions, Sensus suggests that we collaborate to scope the project and layout a system architecture during the Integration Workshop. Once the

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				scope is agreed to, we will provide a quote for the work and proposed SOW.
10.11	Describe any programmable controllable thermostat capabilities provided by the AMI system.	X		Programmable thermostat capabilities are provided through two of the above listed solutions – Zigbee from the electric meter to the smart thermostat or using an LCM to control the thermostat's operation.X
10.12	Describe any Home Area Network devices and support, and the network technology/protocols used to communicate with these devices. If your solution relies on Zigbee to communicate with HAN devices, indicate whether the residential meters proposed include Zigbee capability or if a special meter or gateway would be required.	X		HAN communication is supported using Zigbee protocol from the electric meter to the HAN device. Residential electric meters may be ordered with Zigbee functionality or not; this decision must be made at time of meter order as Zigbee capability cannot be added to the meter later. Devices supported on the FlexNet system are listed in Attachment H: Home Area Network Functionality.
10.13	Describe the proposer's support for smart streetlight controllers at both the system and hardware levels, including visibility and availability of energy and power quality data from streetlight controllers in the AMI head-end. Provide a list of streetlights (manufacturer and model) that can be retrofitted with proposer's streetlight module.		X	Ubicquia UbiCell is a completely stand-alone product, and not integrated with FlexNet in anyway. We are able to provide this product at the request of the City. https://www.ubicquia.com/products/smart-lighting-control-ubicell
10.14	Identify all distribution automation devices supported (e.g., FCI, transformer monitor, cap bank controllers, or recloser interface), protocol used (DNP 5/IEC 61850, etc.), and how these operate on the proposer's system.	X		Field Equipment: RTM II+ (IED), NaviComm (FCI), T866 The RTM II+ uses DNP3 and Modbus protocols to interface with IEDs in the field. The Distribution Automation software, AutomationControl (AC), integrates with your SCADA system using a DNP3 protocol API integration. AC is a highly available solution that has been engineered to provide the service needed by your SCADA system and Operations Team. DA devices communicate over their own dedicated RF frequencies to support your SCADA system's real time needs. Additional information is provided in Attachment G: FlexNet Distribution Automation Solution.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
10.15	Provide the operating temperature range in degrees Fahrenheit for each non-metering device offered.	X		Each product has its own temperature rating. Here are several: RTM II, NaviComm, TC032 & T866: Operating temperature FlexNet: -40° to 185°F (-40° to 85°C) Cellular: -40° to 158°F (-40° to 70°C) Entek Load Control Module Operating temperature -40° to 167°F (-40° to 75°C) Smart Gateway Operating temperature -22° to 185°F (-30° to 85°C) M4002 Operating temperature -40° to 122°F (-40° to 50°C) Command Link II Operating temperature -32° to 122°F Archer II (handheld) Operating temperature -4° to 140°F (-30° to 70°C) See attached individual specific product data sheets.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
10.16	Describe the communications approach from the AMI system to each non-meter device supported and discuss how or whether these devices participate in overall AMI system communications in roles such as repeaters, etc.	X		The FlexNet system is point-to-multipoint communication network that uses FCC-licensed, primary-use RF spectrum. It is the most complete communication network solution on the market today that is capable of supporting multiple applications. Sensus develops and manufactures a complete complement of AMI communication network products. This includes electric, water, and gas meters, communication modules, solutions for distribution automation (DA) communications, lighting control, and communication products that support third-party products and applications to meet the business and operational requirements of utilities. The following diagram shows the high-level system architecture of the FlexNet system, in which FlexNet-enabled endpoints communicate wirelessly to long-range FlexNet Base Stations via the FlexNet communication network. The base stations pass the data to the FlexNet Head End System software, which interfaces with the utility's existing software systems and passes the appropriate data, such as billing and outage data, to each. FlexNet system communication is completely two-way from end to end. See Figure 7 & 8
10.17	Describe the number of proposed non-meter devices, the purpose of each, and the expected maintenance activities required by the City for each.	X		Non-meter devices required include the FlexNet Base Station No repeaters or intermediate network devices are necessary in your FlexNet system. One of the advantages of a FlexNet system that it requires only a small number of network devices to provide RF coverage to your entire service area. At the core of the Sensus FlexNet solution is the FlexNet Base Station, (M400B2) which anchors the flexible, point-to-multipoint architecture of AMI meter-reading systems and other high-value applications. Base stations are data collectors that serve as the field devices in the FlexNet system, installed throughout your service territory in accordance with the RF Propagation Study our RF engineers have performed for your area. Base

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	stations have been designed to be installed on a variety of vertical assets including existing communication towers, water towers, poles, in substations, and on building roof tops. These compact, efficient devices fit into space-constrained environments, both indoor and outdoor, allowing them to be deployed in both remote and densely populated areas. The FlexNet communication network connects all base stations in an area directly to all the water, electric, and gas meters and other endpoint types across large geographic areas. This design improves reliability and increases the network's speed. Since base stations communicate over miles, the number of network devices needed in a FlexNet system is greatly reduced when compared to other AMI systems. This reduced number minimizes the number of backhaul connections needed for your FlexNet AMI system and lowers operations and maintenance costs for the 20-year life of your system. The FlexNet Base Station is the most sensitive AMI network device available on the market today, with the minimum detectable signal approaching theoretical limits. This sensitivity, coupled with overlapping coverage for data reception from endpoints, offers unmatched reliability and accessibility in hard-to-reach locations. Your FlexNet system's base stations are designed to take full advantage of the FlexNet communication network and its FCC-licensed, primary-use spectrum, which delivers long-distance communication using Sensus' point-to-multipoint AMI network. M400B2 FlexNet Base Stations provide field-proven, overlapping, high-bandwidth communications to all endpoints. Their efficient transceivers can transmit and receive simultaneously in a 200-kHz band of spectrum, which provides more dedicated data channels, more granular data, and higher network capacity than competitive solutions. Designed to support multiple backhaul communication capabilities, they may be equipped with either single or redundant backhaul to communicate directly to the FlexNet Head End System without the need for relays or repeaters – speeding up normal communication and making system restoration following an extended outage a breeze.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				Base Station Installation and Commissioning Base Station Mounting The M400B2 FlexNet Base Station is packaged in a NEMA-4 cabinet enclosure that facilitates easy mounting outdoors or indoors on a wide variety of structures, poles, or walls. This design makes the M400B2 a flexible network device that can be installed virtually anywhere. Typically, the M400B2 is mounted at ground level for easy mounting and access by field personnel, with the coaxial cable going up to the antenna, which is mounted at the height delineated in the RF propagation study. Base Station Installation FlexNet Base Stations are installed on any vertical asset, including communication towers, water tanks, poles, and buildings. They provide field-proven, overlapping, high-bandwidth communications to all FlexNet-enabled endpoints, including water, gas, and electric meters, as well as to a wide variety of smart network devices using Sensus' FCC-licensed, primary-use, full-duplex RF frequencies. When the order for the M400B2 is placed, the mounting type is also selected: pole mount or wall mount. This selection determines the mounting kit that will be shipped with the base station. The base station installation guide provides details and guidelines on how to install M400B2 FlexNet Base Stations. It is included as Attachment XX_M400B2 FlexNet Base Station Installation Guide. Base Station Site Requirements Site requirements for installing FlexNet Base Stations are as follows: • Located according to the RF propagation study. • Appropriate mounting space available. • A proper grounding connection available. • Access to AC power.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	• Each base station location requires a suitable structure to mount the antenna that gives an unobstructed view of the endpoints, per the RF propagation design. • The FlexNet Base Station has been designed to interface to a wide variety of communications options for its backhaul connection to the FlexNet Head End System. No repeaters or intermediate network devices are necessary in your FlexNet system. One of the advantages of a FlexNet system that it requires only a small number of network devices to provide RF coverage to your entire service area.

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11 COMMUNICATIONS

Please fill out the table below.

Table 11-1. Communications

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.1	Based on facility location data supplied by the City, the Proposer shall provide an RF coverage plan and maps that demonstrate adequate communication to all devices to address all requirements in this proposal specification. Device types must be visually different (i.e., by color, shape, etc.) in the Proposer's RF coverage plan.	X		Wauchula's FlexNet Network is designed with 100% RF coverage and 100% redundancy with overlapping base station coverage for your electric meters, water meters, and distribution automation endpoints as requested. If a base station goes offline, nearby endpoints will continue to send their messages to other nearby base stations which will continue to process them normally using the FlexNet system's All Points Always architecture.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.2	The Supplier shall provide a cellular endpoint-based option for the AMI solution and total ownership cost over 10 years.		X	The FlexNet system is point-to-multipoint communication network that uses FCC-licensed, primary-use RF spectrum. It is the most complete communication network solution on the market today that is capable of supporting multiple applications. Sensus develops and manufactures a complete complement of AMI communication network products. This includes electric, water, and gas meters, communication modules, solutions for distribution automation (DA) communications, lighting control, and communication products that support third-party products and applications to meet the business and operational requirements of utilities. The following diagram in Figure 7 & 8 shows the high-level system architecture of the FlexNet system, in which FlexNet-enabled endpoints communicate wirelessly to long-range FlexNet Base Stations via the FlexNet communication network. The base stations pass the data to the FlexNet Head End System software, which interfaces with the utility's existing software systems and passes the appropriate data, such as billing and outage data, to each. FlexNet system communication is completely two-way from end to end.
11.3	The Supplier shall provide a non-cellular endpoint-based option with collector/radio for the AMI solution and total cost of ownership over 10 years.	X		See explanation in 11.2 Cost provided in City provided Pricing Sheet.
11.4	Based on the proposed network design, all meters must have a redundant communication path that will automatically be used if their normal communication path fails or is unavailable. Explain how this is achieved.	X		FlexNet Network is designed with 100% RF coverage and 100% redundancy with overlapping base station coverage for your water meters and endpoints as requested. If a base station goes offline, nearby endpoints will continue to send their messages to other nearby base stations which will continue to process them normally using the FlexNet system's All Points Always architecture. See propagation Study in Appendix A.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.5	Identify the type of network topology used (e.g., mesh, point-to-multipoint), frequencies used, and transmit power.	X		FlexNet is a star topology, point-to-multipoint network design that uses FCC-licensed, primary-use spectrum. In a FlexNet system, each endpoint communicates directly to the FlexNet Base Stations without the need to "hop" through other endpoints. This spectrum is reserved exclusively for FlexNet customers. No other entities are permitted to use this spectrum; interference from unauthorized devices is prohibited by law. All endpoint types, including electric meters, water meters, and distribution automation endpoints use this high-performance design.
11.6	Network transceiver and/or network repeater devices may be required. The Proposer shall state any such requirement for its system and include pricing for the proposed devices. All devices required beyond this number to ensure acceptable system performance shall be provided free of charge by the Supplier to the City, including installation.	X		We have designed your FlexNet system to provide 100% coverage and 100% redundancy for your service area using just two M400B2 base stations as listed on the RF Propagation Study. Your FlexNet system is fully designed to service the water meters and endpoints listed in your RFP. Sensus will agree to supply any additional base stations above the number being quoted in our proposal, if needed, to achieve agreed KPIs. Pricing for the M400B2 base stations and their installation and certification is included in the price sheet. If any additional base stations are required, then Sensus agrees to supply them at no charge as well as providing free mounting onto the new location's vertical asset. The City will be responsible for make ready items like pole, backhaul, and providing electric service to the base station.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.7	Describe the Proposer's backhaul plan.	X		Sensus designed our FlexNet Base Stations to be as flexible as possible to support a variety of backhaul communication options from the base station to the central host server. This interoperability helps utilities work with their preferred communication systems and helps them realize long-term technical and financial goals. Base stations support Transmission Control Protocol/Internet Protocol (TCP/IP) using a standard Register Jack 45 (RJ-45) Fast Ethernet connection. If desired, different backhaul types can be used at different base stations throughout the same network. Common backhaul options used by our customers include: • Fiber • Very Small Aperture Terminal (VSAT) • 4G/5G cellular • Microwave • Point-to-point radio The FlexNet system operates most efficiently with a backhaul communications latency of less than 100 milliseconds and a minimum data speed of 256 kilobytes per second, with higher speed backhaul facilitating faster file transfers (such as firmware downloads).
11.8	The Supplier shall provide as-built network installation location information in shapefiles capable of being loaded into a GIS system.	X		Upon installation and certification, FlexNet includes as-built packets for each base station.

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11.9	Describe the remote firmware update process, including typical circumstances requiring an upgrade (firmware bug, feature enhancement, etc.). Include all remotely upgradable devices. If devices are not remotely upgradable, describe how local updates are performed.	X		All FlexNet-enabled meters support over the air (OTA) configuration and firmware updates. Sensus will announce in a Product Information Notice (PIN) any new firmware versions that are released to production for our customers. WAUCHULA can decide whether to take a version based on its content – new features, bug fix etc. FlexNet supports remote upgrades for an individual or groups of FlexNet-enabled meters. For firmware upgrades, Sensus uses a total replacement approach for upgrading firmware files. Updates to a meter or SmartPoint are performed over a period of time. The firmware update process is as follows. (The configuration update process for changing an endpoint's program is similar). As the firmware is being downloaded, there is no impact to the meter or SmartPoint's normal activities. The Head End System queries the endpoint to determine whether all required packets have arrived. If packets are missing, they are retransmitted by the Head End System. When the complete firmware file has been received, the SmartPoint runs a Cyclic Redundancy Check (CRC) which validates the file to ensure it is correct. If the code is found to be valid, the Head End System issues a command with the Cipher Block Chaining Message Authentication Code (CBC-MAC) signature to to execute the changeover to the new firmware. The firmware download process is as follows: 1. The Head End System notifies all meters or SmartPoints that a firmware download session is about to start. 2. Every meter or SmartPoint that matches the noted characteristics will accept firmware download packets; all remaining endpoints ignore the firmware download packets. 3. The Head End System broadcasts the entire firmware image multiple times; multiple broadcasts increase the success rate that a meter or SmartPoint has heard and received every packet. 4. Meters or SmartPoints rebuild a binary image based on packets received and maintain a list of packets not received.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				5. The Head End System reaches out to each meter or SmartPoint to be flashed individually, using encryption if enabled, and determines if packets are missing. 6. If packets are missing, the meter or SmartPoint reports the missing packets. If there are no missing packets, the meter or SmartPoint performs the firmware upgrade and then notifies the Head End System of its status (success or failure). 7. The Head End System determines which packets have yet to be received by SmartPoints and rebroadcasts the missing set of packets multiple times. The process repeats until the firmware download completes successfully.
11.10	Describe the process ensuring no metering data loss during a firmware update.	X		An endpoint will experience a brief interruption only at the end of the process when the new firmware file is flashed into device memory – only the time it takes for the endpoint to reboot. During this brief endpoint reboot, there is no disruption to the consumer's service. The firmware design and firmware download solution are designed to not impact any of the states in the endpoint. All read values and alarm conditions are retained, as well as the current state/position of the remote disconnect switch/valve. No additional actions are required by the utility after the completion of a firmware download.

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11.11	Network components combined (meters and communications devices) shall be able to retain at least 30 days of data. Describe how this is accomplished. Note that this is a storage requirement for the deployed network and metering equipment. Further longer-term system-level retention requirements are included below.	X		Data Retention The FlexNet Head End System retains 60 days of data, a timeframe that is sufficient to ensure data redundancy, for delivering data to the appropriate applications, and for troubleshooting purposes. Longer-term storage is best kept in the utility's MDMS software, Utility Data Lake, or Sensus Analytics applications. Data stored in the head end system includes: • All meter reads • All meter alarms • All meter details • All RF metrics • All base station alarms • All lifecycle state information • All route details The 60 days of data stored in the FlexNet Head End System software applies to reads, alarms, and RF metrics. All other information regarding the meters and base stations is stored indefinitely. Sixty days is suitable to export read and alarm data into a longer-term application, such as the utility's MDMS software, Utility Data Lake, or Sensus Analytics applications for further analysis. The data is stored in a relational database. Sensus supports Microsoft SQL and Oracle. Storage of Meter Locations The FlexNet Head End System stores location details. During installation, the meter can optionally be programmed with its GPS location, and these details can be retrieved from the meter at the head end system. There is another option for storing meter location data. During the synchronization that occurs during meter installation, the CIS or other application can provide the head end system with the meter's location data. Additionally, the latitude and longitude coordinates stored in the FlexNet Head End System can be provided to external applications through both CMEP and MultiSpeak interfaces. Storage of Channel Multipliers, Meter Multipliers, Units of Measure per Channel, and Other Basic Meter Information

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				All metadata relative to meter reads is retrieved from the meter and stored in the FlexNet Head End System. The metadata is used to convert units of measure in the Device Manager GUI. When exporting the data, the system can be configured to apply the metadata – or not, as some third-party systems prefer to apply within their software. Under normal operations, base stations do not store information. Instead, when endpoint messages come in, they are immediately forwarded on the Head End System. This approach delivers the information to you the fastest. In the case that a base station goes offline or loses its backhaul connection, the adjacent base station will keep sending endpoint messages it receives – with no loss of functionality. WAUCHULA ’s proposed FlexNet system is fully redundant. When the backhaul connection for a base station goes down, the base station will continue to receive all endpoint messages and store them for up to 30 days. Meters can store reads as well. Water endpoints typically store 35 days of history with electric meters storage depending on the meter’s load profile configuration.
11.12	The network must provide 100% coverage with two-way communication for every meter and device.	X		FlexNet systems are point to multipoint networks that use full duplex (two-way) communications. Your FlexNet system will operate over the primary use RF frequencies that we will assign for your system’s exclusive use in your service area. WAUCHULA ’s FlexNet system has been engineered to provide 100% RF coverage and 100% redundancy for the water, electric, and DA endpoints included in WAUCHULA RFP, as shown in Attachment B: AMI Network Design.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.13	The Supplier must submit network design and planned equipment locations, mounting details, and power requirements to the City for approval before installation. Identify all supporting work to be performed by the City.	X		The proposed FlexNet network design is detailed in Attachment B: AMI Network Design, which includes these details of your FlexNet system. The proposed M400B2 base station is packaged in an outdoor enclosure capable of being pole-mounted or wall-mounted. Documentation with installation diagrams and instructions is also provided upon contract award and execution of a mutual NDA. The M400B2 is typically mounted at the base of the vertical asset, with the antenna mounted at the height stated in the RF design.
11.14	The Proposer must confirm that it understands that the Supplier is responsible for all site RF surveys when/if they are needed.	X		Sensus performs site surveys for each base station site. Pricing for site surveys is included in the base station installation services. WAUCHULA is responsible for on-site power and permission to use the site.
11.15	The Supplier will participate in and lead, if appropriate, any design and/or status reviews during network and meter deployment.	X		Our solution complies with this requirement.
11.16	All network communication equipment shall comply with all applicable FCC regulations.	X		Our solution complies with this requirement.
11.17	All outdoor enclosures shall meet NEMA 4 and be lockable. Door-open contacts shall be included that will cause an alarm at the head-end system.	X		Our solution complies with this requirement.
11.18	Describe the radiation exposure for each piece of network equipment, including meters for installers and customers.	X		All network equipment meets applicable radiation exposure standards, within acceptable human exposure limits, as demonstrated by third party studies. Upon deployment, you will receive the FlexNet Base Station Installation Guide, which includes written instructions for workers, stating acceptable limitations for working on or around network devices. FlexNet transceivers operate much less frequently than other AMI solutions – reducing RF exposure even further. Typically, a meter is in transmit mode only a few seconds a day.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.19	Describe all network equipment battery backup requirements or recommendations. For equipment with a backup power source, state how long the device will remain operational without A/C power (assuming a continuous outage).	X		M400B2 base stations are equipped with two batteries that ensure the base station's normal operations continue in the event of an AC power outage. These on-board batteries provide a minimum of eight hours of normal operation. This design helps FlexNet achieve superior performance in reporting power outages on your distribution system. During a long outage event, if longer base station hold-up times are desired, you can recharge the base station's batteries using portable generators to maintain indefinite operation of your FlexNet system.
11.20	Any network device, other than water meters, must be able to automatically recharge the battery when operating using A/C power.	X		Base stations meet this requirement. Electric meters do not have batteries; they use a supercapacitor that recharges when the meter is powered up.
11.21	A network battery life span of at least 5 years is required. The Proposer shall define the battery maintenance cycle for their solution. Network equipment must send battery status and low battery alarm information to the head-end system.	X		Depending on geographic location and service use, base station batteries have an expected life of 5 to 7 years. Batteries are designed to fully operate the base station for a minimum of 8 hours upon loss of primary AC power with many utilities experiencing longer hold up times. The Head End System communicates continuously with the base stations and will flag battery alarms that it receives. Typical maintenance is a yearly visual inspection of the base stations to confirm filters are clean and connections are maintained.
11.22	Describe all equipment with solar and battery powering options.		X	While Sensus does not directly offer this feature today, utilities can partner with third party providers to add alternative powering options to base stations, including solar panels.
11.23	List the installation/mounting options available for each type of network device.	X		Installation and mounting details are included in Attachment R: Base Station Installation and Commissioning.
11.24	The Supplier shall be responsible for programming network communication equipment before field installation.	X		As a standard feature during the certification process, Sensus programs and configures base stations as part of their installation process.

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11.25	If the Proposer's system is based on a point-to-multi-point (star) configuration, discuss how bandwidth problems can be mitigated by forcing blocks of meters to register to an assigned take-out point rather than all meters preferentially seeking a single take-out point.	X		FlexNet System Bandwidth In a FlexNet system, meters and other FlexNet-enabled endpoints communicate directly to the base stations, which serve as the backbone of the point-to-multipoint FlexNet communication network. This design ensures that endpoints communicate using their maximum throughput all the time, no matter where in your service territory they are installed. The FlexNet system operates over our primary-use RF channels, which Sensus utility customers have the exclusive rights to use. In addition, the FlexNet system supports the ability to communicate simultaneously over separate RF frequencies, called data channels, at the same time. Also, since all FlexNet transceivers are full-duplex, they are able to talk and listen at the same time, further increasing data throughput. For each data channel used, the uplink data rate is 37.5 kilobits per second (kbps) at all times, and the downlink RF channel provides an additional 20 kbps capability. So, for each endpoint, 57.5 kbps per channel is always available. These data channel speeds are cumulative; for example, three data channels, as shown in the following graphic, provides 172.5 kbps effective throughput – around the clock. With the FlexNet system, this communication speed is the same for any endpoint located anywhere in the FlexNet system's coverage area. SEE FIGURE 9: FLEXNET SYSTEM THROUGHPUT PER CHANNEL By contrast, a mesh system uses hops to enable its meters to communicate to a network takeout point. Communication algorithms estimate that each hop reduces the speed of communication by half. This results in a reduction of communication throughput to 25% of the first meter's original communication speed in a mesh system with only three hops, and a reduction to 12.5% in four hops. This reduction in speed results in inconsistent performance across the meter population, depending on how close a particular meter is to a takeout point. Some mesh systems are designed with a much higher number of hops in order to reduce the number of takeout points in a system, which even further reduces communication speeds across these networks.

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				Part of this considerable speed reduction is that a mesh system uses half-duplex communication, meaning that it will only be able to either listen (receive) or talk (transmit) at a given time. This fact means that endpoints that require many hops will be very slow in communicating. Another consequence of depending on hops for communication is evident during system outages. In these times, when a utility needs to be able to rely on their AMI system to identify outages and restore power, AMI systems using hops underperform since their "chain of hops" is broken when a particular meter in the chain is powered down. By contrast, in a FlexNet system, the meters do not form the AMI network; instead, meters report their outage and restoral messages directly to the FlexNet Base Stations, which immediately sends these critical alarms directly to the FlexNet Head End System. Immediate Bandwidth Expansion Capabilities The FlexNet system is the only AMI system that can readily accommodate future bandwidth needs upon installation without service interruptions or costly network reconfigurations. The FlexNet system's unique network design incorporates state-of-the-art, software-defined radios for the FlexNet transceivers in meters. Sensus' utility customers have benefited from this design. A simple reprogramming process can remotely increase a network's original bandwidth via radio modulation updates, effectively doubling or tripling the available raw throughput. This solution ensures that network performance can be upgraded substantially over time as a utility's AMI needs grow. Smart Grid Application Capacity The FlexNet system is the only system capable of dedicating additional applications to separate RF channels within the spectrum so that those applications do not impede normal metering operations. For example, the FlexNet system provides dedicated DA channels on the spectrum that transmit back to the head end system. This is accomplished through the use of Sensus' primary-use spectrum. With the FlexNet system, data transmissions are assigned to specific channels on the FCC-licensed, primary-use spectrum based on specific metering functions, such as daily meter reads and priority messaging. Additional

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				channels may simply be configured at base station locations to add additional capacity and to accept new applications on the network.
11.26	Describe any communications settings available to allow prioritization of various packet types such as DA messages to ensure they receive preferential treatment for delivery.	X		A new AMI system is a big investment, and with the FlexNet solution, utilities can achieve all their business needs with one network. FlexNet easily supports multiple applications on a single network while offering the unique ability to operate these applications on separate, dedicated frequencies. These applications include electric metering, water metering, distribution automation (DA), demand response (DR), lighting control, CVR, and others. In addition to ensuring high performance for all applications, using dedicated frequencies allows for solution expansion and avoids conflicts between applications and multiple internal utility groups. These benefits make FlexNet particularly well-suited to combination networks, where utilities operate some combination of electric and water systems simultaneously. In addition, FlexNet also supports 15 levels of prioritization for FlexNet messages. Sensus has set the prioritization to ensure that high priority messages are always processed first. For example, a DA message is prioritized higher than a meter billing message. Messages involved with normal activities have lower-level priority. Competing AMI networks often rely on half-duplex, unlicensed spectrum, and a single RF channel to deliver outage updates, revenue integrity information, and data transactions. This approach adds latency and limits bandwidth and network capacity. FlexNet has no such restrictions, providing exceptional network scalability and value that other AMI networks cannot match.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.27	Describe all commissioning, test, and calibration files provided by the Proposer for each type of communicating device, including meters. The Supplier will be required to import these into the head-end system. Describe in detail the contents of each of these file types.	X		All electric meters are manufactured and tested with an integrated FlexNet radio board. Each radio is thoroughly tested first when the board is manufactured, and again later, when the meter and board are combined into the final unit. • Sensus' meters are assembled at our factory and fully tested, calibrated, and configured to comply with the previously agreed-to settings. • Aclara meters are assembled with a FlexNet radio board at their factory and undergo a similar vetting process. • Honeywell meters are assembled with a FlexNet radio board at their factory and undergo a similar vetting process. Meters ship from their respective factories to the utility. Every meter's accuracy is tested and verified on calibrated ANSI-approved hardware. Functional test stations are used to insert and check that correct meter configurations are loaded into the meter and to ensure that each meter passes all functional tests. The production data file for each meter in the shipment is sent to the customer when the order ships with the agreed content and format. For electric meters, when we begin a project deployment, we use a First Article process to allow the utility's meter shop to test and confirm that the meters (typically four per type) are correct before larger quantities are scheduled for production.
11.28	Describe all remote mount antenna requirements/options for each network device type, including meters.	X		Base stations have external remote antennas that can be pole-mounted or wall-mounted. The RF network design specifies the desired centerline mounting height of the antenna for each base station site. Water meters use SmartPoint radios with external antennas that normally mount in the pit lid (for pit installations). Electric meter antennas are internal to the meter itself.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
11.29	All network and field devices (including metering endpoints) associated with the Proposer's system must not interfere with the City's water SCADA system. **This requirement is mandatory.** Frequencies for these systems are as follows: SCADA system for electric uses cellular routers that are 4G LTE and is IP-based utilizing bands B2, B4, B5, B12, B13, B14, B77, and B71. SCADA system for WWTP / WTP is protected with some being cellular based and some internet based. The guarded SCADA frequency range for the WWTP / WTP is 2400 HZ.	X		FlexNet systems operate over our primary-licensed, 900 MHz frequencies that are exclusive to our AMI systems. FlexNet will not interfere with Wauchula 's existing utility systems.
11.30	Describe the timing for all communication devices and meters (electric and water) to return to normal after recovering from a system-wide communication network outage.	X		Water endpoints are battery powered, so they continue to operate normally during outages. Since base stations are equipped with on-board batteries that enable them to operate normally during an outage for up to eight hours; they continue to process messages throughout the outage. Electric meters power down during an outage. Their on-board supercapacitor continues to power the meter's FlexNet transceiver for up to 10 minutes, allowing the transmission of randomized outage alarms during this period. For long outage events, base stations and electric meters will power up following their restoration of power. Upon powering up, they begin to communicate immediately and begin normal operation. FlexNet uses point-to-multipoint communications where a meter communicates to all nearby base stations, all the time (All Points Always), so a FlexNet system recovers from outages much faster than other AMI systems.

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12 SYSTEM TEST FIXTURE

From Exhibit A: To support these needs, the Proposer shall provide a preliminary design of such a board and pricing to construct and deliver it to the City before training and field deployment. The City is not looking for a commercially available meter test fixture for accuracy testing. The proposed solution must:

a. Be a deliverable that is purchased and remains with City post project implementation
b. Be designed for the purposes of testing the operation of the meters and the overall AMI system. The test fixture is not intended to be used for meter accuracy testing.
c. Be portable with wheel mounting preferred
d. Be able to support include at least one of each type of proposed device (meter and all other ancillary equipment) as part of the project. It is anticipated that a separate test fixture be utilized for water and another separate fixture for electric given the differences in implementation.
e. For water: Be able to generate water flow through the meters in both directions as well as other events and alarms supported by the meters.
f. For electric: Be able to have visual indicators indicating on/off (e.g., light bulb for confirming connect/disconnect) or other confirmations of operations.

Please fill out the table below.

Table 12-1. Meter System Test Fixture

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
12.1	As described above, a System Test Fixture is required that meets or exceeds required elements. Please describe the proposed system test fixture in detail sufficient to understand the intended offering.	X		
12.2	The system test fixture shall be suitable for in-depth training of City personnel.	X		Our solution complies with this requirement.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
12.3	The system test fixture shall be able to be read by the to-be-deployed network and head-end system and provide a platform to demonstrate system capabilities in various venues such as City Commission meetings or customer engagement "AMI Day" at City offices.	X		Our solution complies with this requirement.
12.4	The system test fixture shall support system testing and potential testing of new firmware releases before field installation.	X		Our solution complies with this requirement.
12.5	The system test fixture shall support billing and other integration testing before field rollout.	X		Our solution complies with this requirement.
12.6	The system test fixture shall support testing new third-party devices offered by the Supplier and their sub-suppliers.	X		Our solution complies with this requirement.
12.7	The system test fixture shall contain at least one of each type of field device to be deployed as part of the project.	X		Our solution complies with this requirement.
12.8	Please list all additional smart devices to be included in the system test fixture.	X		Our solution complies with this requirement.

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13 SOFTWARE SYSTEMS

Please fill out the table below.

13.1 Managed Services

Table 13-1. Managed Services

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.1	Detail the City's interaction process with managed services support via telephone, email, web portal, hours of support, etc. If 24/7 support is not provided as part of the standard managed services offering, state the options for upgrading to 24/7 support, including pricing.	X		Managed services support is available to 24/7, as described in Attachment C: Sample AMI Agreement.
13.1.2	Describe the head-end system update process, the time durations to implement it, and the frequency of releases.	X		As a SaaS customer, you will enjoy the benefits of our SaaS solution including Head End System software patches, updates, and upgrades which Sensus personnel will perform. Any upgrade will be coordinated with your team. Patches usually include small updates including security upgrades; these may occur monthly as needed. Updates are larger improvements to the Head End System typically twice per year. Upgrades are larger releases (like 4.x to 5.x) with several changes and are released every 2 to 4 years. The expected software upgrade time will be scheduled with your team based on the planned release's needs. Often an upgrade can be performed in several hours; typically, they are done during the evening.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.3	Describe managed services data centers (primary and disaster recovery locations). Provide photographs of these facilities (inside and outside).		X	For our SaaS customers, we provide a disaster recovery location in Sensus' world-class Tier IV data centers. For our U.S.-based customers, Sensus operates two geographically dispersed data centers – one in Boise, Idaho, and another in Raleigh, North Carolina. These data centers are connected using redundant, high-speed, private-line communication with data synchronization. Sensus maintains SAS-70 type 2 certification for all US data centers. Facilities are manned around the clock, with redundant power, communication, and generators. Two-factor authentication is required for access. There is no single point of failure in any layer of the disaster recovery infrastructure. WAUCHULA 's system will run in one of the data centers, with the other being your disaster recovery environment. Due to security, we are not able to provide photographs of these facilities, however we would be willing to provide a tour of the data center
13.1.4	Describe the disaster recovery process and the maximum time from system failure to recovery. Describe the point of recovery (last backup, yesterday, point of failure, etc.)	X		Further providing peace of mind to its customers, Sensus delivers in the most critical times. Sensus maintains a geographically separated disaster recovery Head End System. When a catastrophic disaster event is declared, Sensus will fail over to the disaster recovery instance, guaranteeing that WAUCHULA has a live production system up within 48 hours (RTO) of a catastrophic event, with no more than 1 hours' worth of data lost (RPO). For utilities that have greater needs, with more reliance on real-time applications, Sensus can offer to provide faster failovers and less data loss. For some utilities, we provide a disaster recovery failover within 4 hours (RTO) with no more than 5 minutes of data loss (RPO).
13.1.5	Describe system backup processes, scope, and recovery request process.	X		SaaS Service Backup and Disaster Recovery Management

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				For the SaaS environment, the configuration for the utility's backup network is a full-scale, replicated system located in a separate facility than its primary data center. Storage-level replication between the two locations is to provide rapid recovery in a disaster recovery situation. All existing Sensus SaaS customers currently have real-time replication on multiple live data centers. Sensus performs the ITIL management processes for SaaS Managed Services utilities. Sensus performs a regular series of back-ups and maintains these records in our data centers.
13.1.6	Describe and provide all applicable service-level agreements.	X		Our baseline SaaS offering includes Service Level Agreements (SLAs) for uptime and availability of the Head End System application. We are willing to negotiate additional SLA performance guarantees as required by WAUCHULA . Sensus guarantees 99% or higher availability (uptime) when using our SaaS solution; currently, SaaS is observing greater than 99.5% availability.
13.1.7	Describe the system and field device software and firmware update processes and durations.	X		FlexNet supports remote upgrades for an individual or groups of FlexNet-enabled meters. For firmware upgrades, Sensus uses a total replacement approach for upgrading firmware files. Updates to a meter or SmartPoint are performed over a period of time. The firmware update process Is as follows. (The configuration update process for changing an endpoint's program is similar.) As the firmware is being downloaded, there is no impact to the meter or SmartPoint's normal activities. The Head End System queries the endpoint to determine whether all required packets have arrived. If packets are missing, they are retransmitted by the Head End System.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	When the complete firmware file has been received, the SmartPoint runs a Cyclic Redundancy Check (CRC) which validates the file to ensure it is correct. If the code is found to be valid, the Head End System issues a command with the Cipher Block Chaining Message Authentication Code (CBC-MAC) signature to execute the changeover to the new firmware. The firmware download process is as follows: 1. The Head End System notifies all meters or SmartPoints that a firmware download session is about to start. 2. Every meter or SmartPoint that matches the noted characteristics will accept firmware download packets; all remaining endpoints ignore the firmware download packets. 3. The Head End System broadcasts the entire firmware image multiple times; multiple broadcasts increase the success rate that a meter or SmartPoint has heard and received every packet. 4. Meters or SmartPoints rebuild a binary image based on packets received and maintain a list of packets not received. 5. The Head End System reaches out to each meter or SmartPoint to be flashed individually, using encryption if enabled, and determines if packets are missing. 6. If packets are missing, the meter or SmartPoint reports the missing packets. If there are no missing packets, the meter or SmartPoint performs the firmware upgrade and then notifies the Head End System of its status (success or failure). 7. The Head End System determines which packets have yet to be received by SmartPoints and rebroadcasts the missing set of packets multiple times. The process repeats until the firmware download completes successfully.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				Local firmware downloads and reprogramming of a meter or SmartPoint is supported. If a previous firmware version is needed, it can be downloaded to endpoints using the same process.
13.1.8	Describe managed services staffing and hours of coverage.	X		Sensus' data centers are monitored 24x7x365.
13.1.9	Describe trouble call response time commitments.	X		Sensus is committed to providing quality support to our utility customers. Support details and response times are provided in Attachment C: Sample AMI Agreement.
13.1.10	Describe data center physical security and power security.	X		Data center physical security is as follows: • 24x7x365 onsite staffed technicians and security personnel, with a dedicated guard room protected by ballistics-rated glass. • Electronic badge card key and pin access. • Motion-activated digital security cameras (interior and exterior). • Biometric authentication readers on data center access doors through a mantrap entrance. Facilities are manned around the clock, with redundant power, communication, and generators. Two-factor authentication is required for access. There is no single point of failure in any layer of the disaster recovery infrastructure.
13.1.11	Describe historical data center uptimes.	X		Sensus guarantees 99% or higher availability (uptime). Notably, the Head End System has observed availability in SaaS production environments of greater than 99.5% availability.
13.1.12	The Supplier will ensure that all personally identifiable information (PII) regarding the City's customers will be protected from being released. At all times, ownership of any such data remains with the City.	X		Customer data or Personally Identifiable Information (PII) is not stored in the FlexNet system; it is typically stored in the utility's CIS or other system. (Sensus considers PII to include billing rates, addresses and other personal information, payment plans, and payment methods.) Sensus does store

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				data about a customer's meter, such as cryptographic keys and configuration details within the FlexNet system. The closest thing to PII stored in the Head End System is meter reads and alarms, but this data is associated with the meter ID, not the customer. The association of the meter ID with a customer is managed in the utility's CIS or other system. Sensus Analytics (SA) supports the ability to integrate with your third-party software systems; only data you request will be integrated into SA.
13.1.13	Describe the City's required efforts associated with the implementation of managed services. Include any point-to-point VPN or other requirements. The City will require assistance to implement this.	X		Sensus' Managed Services customers have far fewer responsibilities than utilities who opt to manage their Head End Systems and networks using their own staff. Roles and responsibilities are detailed in Attachment C: Sample AMI Agreement.
13.1.14	The Supplier will notify the City of any security issues (physical or cyber) no later than the next business day after the Supplier becomes aware, including a description of the issue's resolution and any actions the City should take. Describe this process.	X		Customer Incident Notification As part of its vulnerability management and incident response programs, Sensus considers timely notification of security incidents to be critical. Whether the incident is discovered internally or externally, Sensus evaluates its severity in a timely manner and begins the customer notification process according to our incident response policies as well as SaaS contractual agreements. Our security incident procedures outline the roles and responsibilities of Sensus versus tenants during security incidents. Incident Response SaaS incident and problem management provides the policies and procedures for responding to incidents and performing root cause analysis for ongoing problems. Sensus personnel use the Salesforce Self-Service Portal to document and track issues for all managed environments. In the event of an error

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	or a malfunction, Sensus authorized personnel open a new Salesforce ticket. Sensus maintains run books for monitoring, operational verification, issue handling, and resolution procedures. Additionally, the standard operating procedure documents contain escalation paths for different classes of issues that cannot be resolved in a timely manner. If Sensus personnel are unable to resolve an issue, the issue is escalated to the appropriate Subject Matter Expert (SME). Incident and problem management: • Respond to incidents and problems that may occur to the Head End System application. • Maintain policies and procedures for responding to incidents and performing root cause analysis for ongoing problems. • Sensus personnel use the Salesforce Self-Service Portal to document and track incidents. • If Sensus personnel are unable to resolve an issue, the issue is escalated to the appropriate Subject Matter Expert (SME). • Maintain responsibility for managing incident and problems through resolution, and coordinate with customer personnel or any required third-party vendor to resolve the issue. Once a security vulnerability is discovered and validated, we are committed to a timely release of information and certified patches on the various components of the solution. To ensure we are providing secure products, we provide timely updates of any vulnerabilities in a variety of formats. We maintain a public website for customers, where we post notifications and updates on vulnerabilities and patches. In

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				addition, we send emails to customers who sign up for real-time notifications. We provide details on the software impacted, the vulnerability, the version, and the mitigations. The Sensus Partner and Advisor Network (SPAN) meets regularly to discuss security-related issues with our customers. It provides a forum for two-way communication of security issues and new areas for us to address or consider. In addition, SPAN provides a communication path for security updates in our current products and security roadmap items.
13.1.15	The supplier shall have a notification process to inform the City of all software or firmware problems that the Supplier becomes aware of that may impact the City and provide a time frame for resolutions. Describe this process.	X		Sensus will provide information on software or firmware issues. A Product Information Notice (PIN) is published for any new software or firmware release detailing new features as well as improvements and issues resolved.
13.1.16	Describe any backdoors in the managed services systems and how they are managed.	X		The Sensus solution has no backdoors. Your System Administrator will have complete control over the user permissions enabled in your Head End System.
13.1.17	The Supplier shall have a formal process for users to submit problem reports. The Proposer shall submit this process as part of their proposal.	X		There are several methods for documenting and reporting issues, including phone calls to our 1-800 # support line, chatting with a support technician, and entering a new support ticket online.
13.1.18	Describe all web browser versions supported. Web browsers must at least support SSL.	X		The Head End System software is a secure, web-based portal to the FlexNet system that is secured using Secure Sockets Layer (SSL) encryption via HTTPS. Access to the Head End system is accomplished through a browser-based web interface and requires no special software on the user's computer other than the user's and utility's preferred web browser. The Head End System can be accessed using standard web browsers (Chrome, Edge, or Firefox).

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.1.19	The City prefers that all user interaction be web-based. If any thick clients are required, describe those and how installation and upgrades are managed.	X		Access by Wauchula staff to the Head End system is accomplished through a browser-based web interface and requires no special software on the user's computer other than the user's and utility's preferred web browser. The Head End System can be accessed using standard web browsers (Chrome, Edge, or Firefox). For your customers, Sensus intends to deliver a secure, web-based Customer Portal. Empowering your customers with data is a great way to provide timely information to your customers. With the Customer Portal, your customers will be able to view their own historical consumption, set usage limits, and enable usage notifications. For example, customers will be able to use water usage data to drive their own decisions. For instance, customers will gain awareness and control over their own water service by being able to access usage graphs in a simple and easy-to-use Customer Portal. Giving customers this level of control will empower them to proactively correct issues, change usage habits, and ultimately conserve water for themselves and for the region.
13.1.20	Maintenance shall be performed only during off-hours (11 PM to 6 AM Eastern time) unless under emergency.	X		Sensus can comply with this requirement.
13.1.21	The Supplier shall notify the City of any available software or firmware updates to the AMI system and their recommendation on implementing each.	X		Sensus will be your managed service supplier. Product Information Notices (PINs) are issued for all firmware and software releases – giving your team the information you need to make informed upgrade decisions.
13.1.22	The system must maintain an online set of water and electric metering-related data for 5 years. The data must be retained for the managed services contract's life and reloadable if needed for the City's data analysis. The City requires that all	X		The Sensus Analytics solutions retain up to 36 months in the standard offering with additional data storage available for an additional fee. We have included data retention of 5 years in the pricing submitted.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	system data be archived and provided to the City in a documented format that the City can maintain every calendar year. These archives must include all billing determinants provided by the system. Describe this process and the file format.			Increase in data storage terms can be negotiated separately if desired in the future. Sensus can provide yearly archive information as needed. The format can be a mutually agreed format
13.1.23	The Supplier shall provide details on how service restoration after a major outage would be accomplished within 1 business day.	X		Sensus maintains a level system for support needs. A major outage would garner the highest level of support and attention to restore processes as soon as possible.
13.1.24	The Supplier shall provide a pricing option for a test environment for the Head-end application with separate network device(s) to perform stand-alone testing using the supplied Meter System Test Fixture.		X	A test environment can be provided upon further discussion of needs.
13.1.25	The SaaS or Managed Services offering must be provided from a SOC 2 Type II certified data center(s).	X		

13.2 AMI Head-End System

AMI head-end software: These are all system requirements regardless of which managed services component provides the capability. Please fill out the table below which represents the AMI head-end software requirements.

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Table 13-2. AMI Head-End Software

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.1	All head-end system interfaces will be accessible by commonly used web browsers (Chrome, Firefox, Edge, Safari, etc.) and support simultaneous users.	X		The Head End System may be accessible by multiple simultaneous users and interfaces with standard web browsers (Chrome, Edge, or Firefox).
13.2.2	Head-end system will support calculations of the City standard KPI indices including SAIDI, CAIDI, SAIFI, and MAIFI using the outage and blink data available in the system (monthly and with the ability to annualize). The system must provide standard reports whose data can be extracted to allow the City to easily calculate these KPI's. Supplier will coordinate the meter configuration during the project to ensure that settings that define momentary and sustained outage are consistent with the City's needs and regulatory definitions since Florida and IEE definitions of these parameters differ.		X	The Head End System and Sensus Analytics support several standard reports. The SAIDI, CAIDI, etc. computations are not available in the Head End System nor in Sensus Analytics. If desired, for an additional fee, Sensus' Professional Services team can be engaged to develop these reliability metrics. FlexNet collects data that can be used to support calculation of these items. The Head End System supports the export of raw data to another system for calculation
13.2.3	Head-end system shall have the ability to report on outage occurrences and blink counts for all electric meters. Outage notifications will be reported to the head-end within 1 minute of the occurrence for 99% of meters.		X	FlexNet provides superior outage and power restoration notification and our customers tell us that they can use it to get their customer's lights back on faster. In the absence of line power, FlexNet-enabled electric meters detect, log, and report outages to the Head End System. Momentary or permanent outage is determined using a utility configured time threshold – typically set at 60 seconds. This time threshold must be exceeded before the meter reports an outage as extended: otherwise, the meter reports a momentary outage. Once a permanent outage condition has been flagged, the meter will transmit four randomized outage messages over the next 10 minutes. The first time slot is from 0 to 32 seconds. Sensus expects that most WAUCHULA outage alarms will process in the first 32 second time slot. Three additional outage messages will be

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				transmitted by the meter's FlexNet radio over the remainder of the 10-minute hold-up time. Blinks and voltage sags and swells will be transmitted upon the end of the voltage averaging interval (VAW), which is configurable.
13.2.4	The head-end system shall automatically retry missing billing reads and missing interval data.	X		The FlexNet system software performs a backfill process for electric meters to retrieve any missing billing or load profile interval data. Water endpoints transmit several historical reads in every message, allowing the Head End System to receive any missing information efficiently while conserving battery life in the water SmartPoints.
13.2.5	The head-end system must provide a user-configurable ability to send text messages and emails for selectable events and indications (e.g., outage/restoration). The Proposer shall provide a list of events for which this notification is possible for water meters, electric meters, and other network components and how they will be grouped or otherwise filtered. For each occurrence type, up to five media recipients shall be possible. It is required to be able to assign City recipient event notification emails and text numbers per water and electric meter account to support key account vigilance. These are City personnel notification processes. Individual customer notifications are included as part of the customer portal requirements. Describe these functionalities in detail.		X	Managed Notifications, our Head End System application, provides you with the ability to send customized email and text messages to utility personnel, including the ability to group multiple alarm or alert categories into a single notification. There is a max of 4,000 characters on the recipient line for each notification, which should be more than ample to support (5) e-mail addresses. There is no capacity on the number of notifications which may be configured. At WAUCHULA 's discretion, the Managed Notifications application can send these notifications to external e-mail addresses and phone numbers; however, Sensus does not recommend this approach. Sensus does not currently support the ability to interface directly with Facebook or any other social media application. We are being asked to support this capability for other customers and anticipate being able to do so in the future. We recommend holding an Integration Workshop to define and scope the work. There will be a fee for this capability.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				A list of events and alarms can be found in Attachment E: Meter Events and Alarms.
13.2.6	For outages, it is required that the City have the ability to set up text and/or email notifications for up to 5 city employees where they are aware of at least one outage on the system. This notification should contain all outages present at the time the message is sent. Sending a text and/or email per outage is not acceptable. Describe this functionality in detail.		X	This capability to batch and filter outage alarms is not a supported feature; however, our Professional Services team can develop this solution for a fee. We recommend holding an Integration Workshop to define and scope the work.
13.2.7	The head-end system time shall be synced to a network time server that is synced to a national standard.	X		In a FlexNet system, the base stations are the timekeepers; each has on-board GPS. Base stations send out a (configurable) time sync message every 15 minutes. This design ensures time is maintained accurately throughout the FlexNet system.
13.2.8	Time accuracy relative to system time: 1 minute for electric, 5 minutes for water.	X		In the FlexNet system, base stations are responsible for maintaining time across the entire network. All endpoints receive the base station time sync message directly, so there is no need to have a complicated method for managing time through multiple other endpoints, as is the case in some AMI systems. Time in electric meters is typically maintained within 50 milliseconds. Time synchronization of water endpoints occurs via different mechanisms. Battery-powered SmartPoints operate in one of two communication modes: “Middle of Minute” (MOM) or “Listen After Talk” (LAT). SmartPoints operate in MOM mode under optimal conditions, only switching to LAT if MOM is not achievable. Once MOM mode conditions are returned, units will switch back into that mode. This process is performed automatically through the Head End System; it can also be manually adjusted when desired. FlexNet’s exclusive MOM communications keeps the water SmartPoints synchronized within milliseconds of network time.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				All battery-powered endpoints in MOM mode synchronize to a beacon from the FlexNet Base Station at the middle of each minute. This continuous time synchronization enables SmartPoints to deliver meter data based on true top-of-the-hour meter reads. MOM is an exclusive feature of FlexNet technology, providing a host of benefits, including true on-demand, two-way communications from the Head End System to the meter's SmartPoint module, as well as highly accurate SmartPoint clock synchronization.
13.2.9	The head-end system shall support Standard Time and Daylight Savings Time.	X		FlexNet supports Daylight Saving Time.
13.2.10	Firmware updates for individual, all, or groups of devices shall be possible. Describe these capabilities and the associated process.	X		Sensus' flexible firmware updates deliver a secure, reliable, and timely solution to a single endpoint, a group of endpoints, or an entire endpoint population type without impacting billing data collection or any other critical function of the AMI solution. The management of firmware updates is performed using real-time, efficient tools. Sensus' firmware download solution supports all FlexNet-enabled endpoints.
13.2.11	During the firmware download process: The head-end will provide a robust set of reports or displays to show the download status, estimated time to completion, all error conditions, and all other information needed to manage the firmware update process effectively. Firmware updates for all devices will be logged.	X		The Head End System supports an informative, easy to use GUI for firmware download jobs. The display shows this firmware download information.
13.2.12	Head-end system shall support the ability to turn off all radios in any electric meter. A handheld will be required to turn the radios back on. Describe these capabilities and the associated process.	X		The proposed Sensus Stratus IQ meter supports Opt-out mode, in which all radio transmissions, including the FlexNet transceiver and optional Zigbee board, are turned off. The

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				meter continues to listen enabling the meter to continue to receive time sync messages to maintain proper time. Opt Out mode does not affect the overall AMI system performance since endpoints communicate directly with the AMI system. Authorized utility staff can control the meter's Opt-out state from a handheld or remotely from the Head End System.
13.2.13	The head-end system shall support all interval data recording lengths and channel configurations available in meters.		X	The Head End System supports 5-, 15-, 30-, and 60-minute load profile interval lengths in all proposed electric meters. The Sensus Stratus IQ meter also supports a one-minute interval length. The Head End System supports up to 32 channels in the Sensus Stratus IQ meter and up to 20 channels in the Aclara kV2c meter. The standard kV2c meter load profile configuration supports 8 channels; a meter key is required in each meter that needs more than 8 channels enabled.
13.2.14	The head-end system must be able to identify and enforce the inability to disconnect accounts identified as "medical do not disconnect." Explain how this is achieved.	X		This capability is included in our most recent version of the Head End System and is available for use by WAUCHULA . Each meter being assigned this status will need to be set to enable this function in the Head End System.
13.2.15	The head-end system shall support reading all quantities available in meters, including but not limited to: • kWh (electric) • Var (electric) • Under the cover meter temperature (electric) • Last read. • Unit of measure. • Number of meter digits. • Device firmware version.	X		The Head End System supports retrieving these values and much more from the electric meters. (We believe that car is VAR.) Note: Some values in electric meters require a meter key to be turned on to enable functionality in the Aclara and Honeywell meters.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	• Disconnect switch status			
13.2.16	The head-end system will support the establishment of daily, weekly, or monthly billing schedules.	X		Our solution complies with this requirement.
13.2.17	The head-end system shall support other non-billing schedules to bring back items of interest to the City, such as service voltage, pressure readings or smart sensor data (like tank levels). Describe this capability and what water metering quantities (water and electric) can be so scheduled.	X		Xylem / Utility Data Lake (UDL) To support the ability for the utility to run ad-hoc queries and create custom reports, Sensus can deliver the Utility Data Lake (UDL) solution, which stores FlexNet endpoint data and is updated daily. This replicated database allows the utility to design and maintain scripts and queries without interacting with the primary Sensus FlexNet database. The data retention period for the Utility Data Lake application is designed for years of data storage, enabling it to act as an extended data repository. The Utility Data Lake can also integrate with your third-party business intelligence tools, and it supports standard Open Database Connectivity (ODBC) connections, making it compatible with most standard query editors and reporting tools. Standard Reports in UDL The Utility Data Lake (UDL) dashboard features a clean and intuitive interface with a navigation bar for easy access to difference sections. Pre-built, standard reports are readily available for common utility data queries, enhancing user experience by providing out-of-the-box solutions. Reports show essential metadata, including creator, report status (such as “Published”), and date created, enabling users to quickly assess the report’s details. Flexibility for advanced users is maintained through the option to “Add New Report,” accommodating the need for custom report creation. Enhanced search and filter functions are present to expedite the retrieval of specific reports, streamlining the data management process.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	The following out-of-the-box reports are available: Master Reports •Master Route Register and Interval Reads (Electric): Shows the latest reads for all meters within a specified time window. •Master Route No Readings: Lists all meters that are active in the system but have not been sending reads within a specified time window. Consumption Reports •Consumption Report: Lists the meters' consumption based on meter readings within a specified time window. •Consumption Summary: Shows daily consumption of all meters as a default; can also be configured to show consumption within last week, month, quarter, or year. The consumption is grouped by year/month and unit of measure (UOM). •High Low Meter Exception Report: Displays meters whose reads exceed the minimum and/or maximum threshold within a specified time window. •Consumption vs. Previous Read: Compares the latest reading (from the RNI) with the last known read received from the CIS. •Consumption Exception 24 Hour Report: This report shows meters that satisfy these conditions: 1) The daily average consumption exceeds the entered daily consumption threshold. 2) The number of days when the daily thresholds are exceeded is greater than the entered exception per day threshold. •Average Consumption: Shows meters' consumption on the specified roll-up date, detailing consumption for each interval time and registered read for the selected date, incorporating filters such as commodity, device status, account status, billing cycle, and service type.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	•Consumption by Zone Report: Enables listing of all devices with consumption data based on selected zones within a specific time window, with an option to filter by high consumption threshold. Miscellaneous Reports in UDL •Acoustic Leak Report (Water): Displays leakage information for devices within a specified time window using acoustic data from Permalog+ sensors attached to water pipes. •All Alarms Report: Lists all alarms that occur during a time window. Users select which alarm to show. •Alarm Count Report: Users must select a particular alarm to monitor and the report will provide counts of that alarm from the last 24 hours, 72 hours, 30 days, 60 days, and 90 days from the selected date. It also provides average daily usage for each time period. Retrieves as far as 120 days prior and provides the first date when alarm was reported. •Endpoint Details: Shows the current state of meters that are created within a specified time window. •Device Event History: Events of a device sorted by event date time. Two types of events are displayed in this report: •Register reads •Alarms Commonly Used Standard Reports Consumption Report The Consumption Report in UDL shows meter consumption data within in a date range. It calculates consumption as the most recent read minus first read, and can be filtered by commodity, device status, account status, and other components. Display options include the consumption period, value, unit of measure, device ID, and account details. This report has an option to only show meters above a consumption threshold.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	Alarms Report The Alarms Report in UDL shows all alarm events for meters in a selected date range. It displays the alarm name, time, device ID, and device status, with multiple rows per meter, if multiple alarms have occurred for that device. The user can filter this report by commodity to only show the relevant alarm types. List of Orphaned Meters The Orphaned Meters list in UDL shows meters marked as "orphaned" in the FlexNet. “Orphaned” means a meter is sending data, but no account information is tied to it. This report shows the last raw read, last alarm, and days since the meter’s status changed. It is especially useful for identifying meters the utility has lost association with. Custom Reporting Through XDL/UDL In addition to the out-of-the-box reports available through UDL, it allows for nearly infinitely customizable reporting options. By default, the UDL includes an integrated, web-based business intelligence tool to run queries, create custom reports, and develop visual dashboards and charts. Custom reports, queries, and scripts can be saved in UDL and shared across your team. Reports can be scheduled or actioned on a threshold value. Utility staff can build dashboards from scratch or copy and modify existing ones. The SPAN Business Intelligence subcommittee is a great resource for sharing and collaborating with other utilities. Additionally, our Professional Services team is available for consultation and development services. Alternatively (at an additional cost), a site-to-site VPN can be stood up to provide a direct connection to a local SQL Client or

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				to your own Business Intelligence tools such as Microsoft Power BI or SAP Crystal Reports.
13.2.18	The head-end system shall support on-request reads of any meter in the system. All meter data shall be returnable by such reads. **On-request read capability is a mandatory requirement for water and electricity meters.**	X		Our solution complies with this requirement.
13.2.19	Head-end system shall be able to perform an on-request demand reset for electric meters. Describe how this demand reset function works on a scheduled and on-request basis. Include a description of and the time sequence of any data brought back as part of a demand reset.	X		The Head End System – both singly and in groups of electric meters, supports on demand resets. Once the on-demand request is received by the meter it will send the requested read to the Head End System in a few seconds. Electric meters also support the ability to perform the demand reset itself based on a programmable schedule.
13.2.20	Head-end system shall have the ability to confirm demand reset has occurred by examining demand reset count before and after the request. Describe how this confirmation occurs on the head-end system.	X		This information for a meter can be viewed on the Head End System's Device Manager screen in the Head End System.
13.2.21	Head-end system shall report on voltage threshold violations consistent with the thresholds available in electric meters.	X		This information for a meter can be viewed on the Head End System's Device Manager screen.
13.2.22	Head-end system shall detect and report time-stamped indications of all electric meter outages and restoration.	X		The FlexNet system performs particularly well in reporting outage and power restorations across your service area. Our utility customers have reported reduced power outage times for their customers – using the improved information provided by their FlexNet system to better direct their outage restoration crews.
13.2.23	Head-end system shall support all TOU functionality defined in Table 8-3Table 8-3, including modifying such settings.	X		The Head End Software supports Time of Use functionality in electric meters. All proposed electric meters can support being configured with TOU measurement. FlexNet supports remote over-the-air

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				(OTA) configuration updates to electric meters, including TOU changes.
13.2.24	The system must provide a geospatial/map view of all devices on the communications network, which includes various device statuses via visual differentiation (color, etc.). Communications paths and health status should be included on these maps.	X		Using Network Metrics, WAUCHULA personnel can view all of the communication paths via the Head End System for every endpoint including electric and water meters. Network Metrics supports map views and images. Users can customize their view to more easily focus on the type of information that interests them. In addition, the Outage Management System application (part of our Sensus Analytics solution) supports maps with endpoints geographically located with color coding indicating their status.
13.2.25	Head-end system shall support pre-pay for electricity. Describe this pre-pay capability and any third-party relationships involved in your offering. (Note that the requirement for this RFP is to provide an AMI solution that is “pre-pay-ready”. The utility intends to purchase a pre-pay application separately.)	X		The Head End System software supports standard interfaces to existing industry prepayment applications. This enables you to select the prepayment software vendor of your choice that best fits your needs and business processes. Sensus has worked with PayGo and Exceleron to implement prepayment systems for joint customers. The future integration to the third-party prepayment system is not priced in this RFP proposal and will require a specific SOW and pricing process when WAUCHULA is ready to move forward with your prepayment solution.
13.2.26	The Proposer shall provide a complete list of events and alarms supported by the head-end system and endpoints.	X		For a full list of alarms and events, please refer to Attachment E: Meter Events and Alarms.
13.2.27	Collecting metering data from deployed meters must be possible if the communications network is down. If there is a temporary failure or unavailability of all or a portion of the communications network, describe the backup process by which the City will gather meter reading data until repairs are made.	X		FlexNet-enabled electric meters and water meters can be read locally with a handheld, laptop, or drive-by solution. No endpoint configuration changes are necessary for this process. In addition, since all FlexNet endpoints communicate 24x7x365 with all nearby base stations all the time, if one base station goes offline, the others receiving a meter’s messages continue

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				to process them normally. In this case, there is no impact to read collection.
13.2.28	The system shall provide reports to address the following: • Water meter low battery. • Electric meter low battery (if outage battery is used) • Meter configuration changed. • Meter errors. • Service Voltage (sags, swells, minimums, maximums, averages, etc.) • High flow, reverse flow, high/low pressure. • Tampers. • Battery status for all battery-backed network devices. • Counts of outages, blinks, and momentary interruptions	X		Our solution complies with this requirement. FlexNet provides several apps, GUIs, and reports where this information can be viewed.
13.2.29	The Proposer shall list available reports and capabilities in support of smart sensory devices (e.g., pressure, temperature, pH/water quality, and others as available). These capabilities will not be implemented in the initial AMI implementation but are part of the City's strategic roadmap.	X		See response for 13.2.17
13.2.30	Discuss remote connect and disconnect capabilities via batch operations.	X		The Head End System software supports remote disconnect and connect of the remote service switches singly or as part of a group of meters. Sensus customers use this capability extensively to perform their cut-ons and cut-offs remotely using their FlexNet systems – saving time and money compared to doing these tasks on-site. Also, a reconnect can be performed fast following a customer payment, often restoring power before the customer returns home from paying their bill at WAUCHULA 's local offices.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.31	Discuss remote connect and disconnect load side voltage detection and closure prevention.	X		The Head End System supports over the air (OTA) operations of an electric meter's service switch for one meter or a group of meters. Load Side Sense (LSS) The Sensus Stratus IQ and Aclara I-210+c meters are equipped with a Load Side Sense circuit. This allows the meter to determine whether an unsafe voltage is present on the load side before trying to close the meter's service switch. This solution prohibits the switch from being closed if a temporary power source (such as a generator, jumper cords from an adjacent house, battery pack, or inverters) was placed on the load or house wiring while the meter's service switch was opened. Upon reception of a command to close the service switch, the load side is examined for the presence of voltage and the endpoint will abort the attempted closure and issue a response back to the Head End System software indicating the presence of the voltage. The current state of the service switch is provided remotely by the Head End System for your Customer Service Representatives (CSRs) using GUIs or via integrations to other utility systems. The state of the remote service switch is also shown on the meter's display.
13.2.32	Disconnect switch status (open/closed/restricted flow-for water) shall be visually displayed on system displays.	X		The current state of the service switch is provided remotely by the Head End System for your Customer Service Representatives (CSRs) using GUIs or via integrations to other utility systems. The state of the remote service switch is also shown on the meter's display.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.2.33	The head-end system shall support remote connect/disconnect status confirmation reads.	X		Our solution complies with this requirement.
13.2.34	Head-end system must support secure web-service calls from other systems to allow connect/reconnect operations. Describe these web services.	X		Connect/reconnect operations, which are real time applications, are normally accomplished from other systems using a MultiSpeak API interface to the Head End System. The details of the integration will be scoped in the Integration Workshop run by Sensus' Professional Services team.
13.2.35	The head-end system shall provide the ability to perform on-request reads of events and alarms (in addition to events automatically alarming up to the head-end system).	X		In a FlexNet system, events and alarms are automatically transmitted to the Head End System by the endpoints in the field. If desired, the Head End System can be used to make on-request reads for events and alarms for electric and water meters at any time.
13.2.36	Describe configurable parameters in water and electric meters and how changes to the parameters are implemented. Include changes to TOU schedules and seasons, LP interval, demand reset behavior, Sag & Swell limits, etc.	X		Today's Sensus electric meters can provide significantly more information than the traditional real, apparent, and reactive energy measurements and energy consumption readings provided by older non-AMI meters. Electric meters can be configured to calculate a variety of data including energy, demand, TOU, load profile, power factor, temperature, current, frequency, voltage, demand reset count, harmonics, CVR and load side sensing. Sensus experts will sit down with your team and help you create the meter specification for each of your meter types. The configuration files are used during the manufacturing process in the factory to enable each electric meter to ship with your desired settings. After deployment, FlexNet supports over-the-air changes to metrology logging, register collection, and event reporting through the Head End System for all electric meters. The described parameters for electric meters may be reprogrammed over the air without a truck roll, saving your utility time and money.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	SmartPoint communication modules for water applications also provide flexible programming and configuration options to allow for different levels of granularity in interval consumption, data collection, storage, alarming, and reporting. The programming and installation tools offer a variety of measurement configurations (such as gallons and cubic feet) in increments of 1, 10, 100, and so on. Water endpoints support over-the-air configuration updates too from the Head End System.
13.2.37	Describe the system's firmware update process from end to end, including any retries, commit processes, rollback processes, etc.	X		FlexNet supports remote upgrades for an individual or groups of FlexNet-enabled meters. For firmware upgrades, Sensus uses a total replacement approach for upgrading firmware files. Updates to a meter or SmartPoint are performed over a period of time. As the firmware is being downloaded, there is no impact to the meter or SmartPoint's normal activities. The Head End System queries the endpoint to determine whether all required packets have arrived. If packets are missing, they are retransmitted by the Head End System. When the complete firmware file has been received, the SmartPoint runs a Cyclic Redundancy Check (CRC) which validates the file to ensure it is correct. If the code is found to be valid, the Head End System issues a command with the Cipher Block Chaining Message Authentication Code (CBC-MAC) signature to execute the changeover to the new firmware. The firmware download process is as follows: 1. The Head End System notifies all meters or SmartPoints that a firmware download session is about to start.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	2. Every meter or SmartPoint that matches the noted characteristics will accept firmware download packets; all remaining endpoints ignore the firmware download packets. 3. The Head End System broadcasts the entire firmware image multiple times; multiple broadcasts increase the success rate that a meter or SmartPoint has heard and received every packet. 4. Meters or SmartPoints rebuild a binary image based on packets received and maintain a list of packets not received. 5. The Head End System reaches out to each meter or SmartPoint to be flashed individually, using encryption if enabled, and determines if packets are missing. 6. If packets are missing, the meter or SmartPoint reports the missing packets. If there are no missing packets, the meter or SmartPoint performs the firmware upgrade and then notifies the Head End System of its status (success or failure). 7. The Head End System determines which packets have yet to be received by SmartPoints and rebroadcasts the missing set of packets multiple times. The process repeats until the firmware download completes successfully. Local firmware downloads and reprogramming of a meter or SmartPoint is supported. If a previous firmware version is needed, it can be downloaded to endpoints using the same process.
13.2.38	The head-end system shall not store sensitive customer personally identifiable information such as Social Security numbers, credit card numbers, etc. Name and address are acceptable if no other personally identifiable information is associated with them.	X		Personally Identifiable Information (PII) is not stored in the FlexNet system; it is typically stored in the utility's CIS or other system. (Sensus considers PII to include billing rates, addresses and other personal information, payment plans, and payment methods.) Sensus does store data about a customer's meter, such as cryptographic keys and configuration details within the FlexNet system. The closest thing to PII stored in the Head End

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				System is meter reads and alarms, but this data is associated with the meter ID, not the customer. The association of the meter ID with a customer is managed in the utility's CIS or other system.
13.2.39	No data may be released or sold from the City system.	X		Our solution complies with this requirement.
13.2.40	Hardware, software, and firmware configurations: The system shall maintain and provide current identification of hardware versions, firmware, and software for all AMI system components.	X		The Head End System is the System of Record for the FlexNet system. It retains knowledge of all the endpoints installed in your system including each endpoint's type, configuration, and firmware version. Multiple versions can be supported on your system at the same time.
13.2.41	Duplicate meter serial numbers: The system shall identify the premises where the same serial number has been used more than once.	X		FlexNet serial numbers are unique; they are not repeated. The FlexNet system does not provide a report for identifying duplicate meter serial numbers.
13.2.42	Network component status: The system shall report on the health of the Supplier's network components, including memory errors, battery status, signal strength, connection errors, redundancy, and whether the network components pass or fail the Supplier's operating specifications.	X		The Network Metrics application within the Head End System provides detailed information for all of the base stations in your system. Users can create their own customized view in Network Metrics to focus on the data of most importance to them.
13.2.43	Describe the confirmation process for any control action or customer messaging from the system.	X		All control actions from the Head End System are acknowledged by the endpoints in the field and their status displayed on GUIs.
13.2.44	Provide a detailed product roadmap showing any enhancements that can be incorporated into the proposed AMI system.	X		Please refer to Attachment Q: Roadmap.

13.3 Meter Data Management (Lite)

Please fill out the table below.

Table 13-3. Meter Data Management

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.1	The system must support loading and maintaining GPS coordinate data for water meters and other field-deployed devices in decimal degrees to a six-decimal resolution.	X		For water metering upgrades, approved handheld devices for SmartPoint installation can acquire and program SmartPoints with their GPS location during the installation process. This LAT/LONG is then stored within SmartPoint and transmitted to the Head End System. The install vendors coordinate this work for the endpoint and base station installations. For electric metering upgrades, normally an electric meter is installed without acquiring the GPS coordinates on-site to speed up the meter installation process and save time. As part of their standard work order process, Concord installers will collect the GPS coordinates on site and return the data with the completed work order information. The Head End software can export the GPS data for both water and electric endpoints to Sensus Analytics.
13.3.2	Preconfigured reports for examining meter data shall be provided. Describe these reports.	X		The proposed solution includes the Sensus Analytics Enhanced Bundle and the Customer Portal. WAUCHULA can generate reports from the following applications: • Billing Access • Billing Adaptor • Customer Portal • Device Access • Files Dashboard • Report Access • Meter Insight Additional applications are available for advanced analytics beyond the base offering: • Alert Manager • Alarm Insight • Voltage Insight • Load Insight • Outage Management System • Service Management Application

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				• Pressure Profile Application
13.3.3	The system must include water and energy balance analytics and dashboards. Please describe.		X	Standard functionalities within the proposed Sensus Analytics solution allow users to create virtual meter groups, export reports, and/or mine for specific data useful in calculating water balance and energy balance equations.
13.3.4	The system must manage the database of meter readings and other related information about the meters and the AMI system.	X		Our solution complies with this requirement.
13.3.5	The system must be able to export data from reports in standard .CSV format.	X		Data from our Sensus Analytics reporting platform can be exported as a flat file, CSV format, Excel file, HTML data, PDF, rich text format, or a text file
13.3.6	The system must provide a dashboard display that includes: • Peak usage. • Missed readings (excluding in-process missed read retrieval and missing LP gap fill-in processes). • Usage comparisons for like time periods. • Alerts and alarms. • Current status, including current read, disconnect status, etc.		X	Some of this capability is supported in the Head End System software and some in the Sensus Analytics suite of applications. For an additional fee, Sensus' Professional Services team can build a custom dashboard using Utility Data Lake (UDL).
13.3.7	The system must provide validation, editing, and estimation (VEE) capability for water and electric meter reads to identify suspicious reads, allow City personnel to override a billing value, and estimate a billing read based on previous like time periods.		X	FlexNet delivers a read interval success (RIS) rate of 99.8% without VEE. VEE is planned in a future roadmap development; a completion date has not been established. Our VEE solution will be a simple and cost-effective complement to the high AMI RIS rate utilities are already receiving through the proposed FlexNet solution.
13.3.8	The system shall support analytic leak and burst pipe detection with a definable rule set for water interval reads over various time periods, including sudden sustained high reads.	X		Our solution complies with this requirement.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.9	The system shall be able to report on user-defined low or no flow conditions for water and electric meters over a specified time.	X		FlexNet alerts utilities to low-flow or no-flow conditions for water meters and generates reports over a selected period of time. Comparable reports are available for electric meters, such as power state conditions.
13.3.10	The system shall be able to report on water and electric reverse flow conditions.	X		Our solution complies with this requirement.
13.3.11	The system shall be able to report leaks.	X		The Sensus FlexNet system has the capability to transmit “Continuous Flow” alarms. These will notify of a potential leak situation. We are also capable of utilizing Permalog devices for enhanced Acoustic Leak Detection capabilities.
13.3.12	The system shall support reporting on user-defined conditions considered abnormally high/low water consumption over a specified time.	X		FlexNet not only informs the utility of abnormal consumption through the included apps, it can inform your customers of their consumption details through the Customer Portal.
13.3.13	The system shall support enhanced analytics capabilities to identify non-technical loss (e.g., tampering/theft, energy loss or diversion, suspicious accounts based on usage patterns, and aggregated meter consumption comparisons).	X		Sensus Analytics offers the ability to review collected FlexNet system alarms from a wide variety of devices. The Head End System supports the ability to study individual meter information in detail. For an additional fee, Sensus’ Professional Services team can build a custom dashboard using UDL.
13.3.14	System shall support enhanced analytics capabilities to allow for monitoring and identification of under-utilized, over-utilized, or at-risk transformers throughout the distribution system (kVA utilization, loss of life and remaining life computations)	X		The capability to study overloaded and under-loaded distribution transformers is available in our optional Load Insight application. This application can be used to also study other critical assets in your distribution system (with optional Professional Services integration to WAUCHULA ’s connectivity data).
13.3.15	System shall support enhanced analytics capabilities to allow for outage and reliability analysis and reporting including Outage/Restoration, and Reliability Computations (SAIDI, SAIFI, CAIDI, CAIFI, MAIDI, MAIFI)		X	These computations are not available in the Head End System nor in Sensus Analytics. If desired, for an additional fee, Sensus’ Professional Services team can be engaged to develop these reliability metrics.
13.3.16	System shall support enhanced analytics capabilities to allow for demand and capacity monitoring (e.g.,	X		The FlexNet software supports the ability to support customer demand. The Head End System brings back demand including maximum demand values programmed in electric meters. This information can be viewed for any meter

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	customer demand contributions, demand response impacts)			and exported via integration to WAUCHULA 's downstream software systems for further study. Additionally, Sensus Analytics supports several water-related solutions including Revenue Locator -- an application that uses advanced analytical tools to examine water meter inaccuracies and identify apparent losses. This solution empowers proactive revenue recovery and operational efficiencies through identifying meter under-performance due to under-registration, meter read errors, and incorrect meter sizing. Another optional water application, Pressure Profile, enables remote pressure monitoring capabilities, providing visibility into the utility's water distribution system as a whole. The solution combines pressure data from ally meters and Smart Gateway sensor devices into a map-based solution, graphically displaying the pressure of measured points with respect to location over time.
13.3.17	System shall support enhanced analytics capabilities to allow for monitoring of power quality (e.g., voltage monitoring, voltage optimization, CVR/CVO, outage, and restoration.	X		Electric meters support a wide variety of power quality monitoring capabilities including voltage, outage and restoration notification, voltage sags and swells, and conservation voltage reduction (CVR). Sensus Stratus IQ meters can be configured as a bellwether meter, transmitting average voltage measurements over a five-minute period. This data can be passed from the Head End System to the optional Voltage Insight application where they will be displayed. Voltage Insight is a tool that provides vertical integration from the endpoint to data analytics applications, greatly increasing speed to market and realization of benefits for the utility. It enables the utility to run scenarios by varying high and low voltage level thresholds to view bad voltage in graphic form for user-configured time periods and supports viewing voltage information by substation and distribution feeder (with optional Professional Services integration to your connectivity data).
13.3.18	Describe how the proposed solution can provide load forecast using data from the AMI system for all meters in the system with identified EV and/or PV presence behind the meter. Does the system support		X	The Stratus IQ+ supports all the current capabilities of the Stratus IQ meter plus much more. • More processing capacity • More firmware code space

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	KPI's to track changes in customer adoption of EV charging using data from the AMI system. Does the system provide KPI's to track changes in customer PV installations using data from the AMI system			• More on-board memory – Random access memory (RAM) & Non-volatile memory (NVM) • Edge Computing – Full support for Applications (apps) running on the meter Q4 2023 o No additional hardware card or costs will be required for the Stratus IQ+ (single phase) or Stratus Evolve (polyphase) meters to implement these apps. o Impedance Q3 2024 o Distribution Transformer Failure Prediction Q3 2024 o Disaggregation Q3 2024 o Meter Socket Failure Prediction Q3 2024 o Appliance Failure Prediction Q3 2024 o Loads that are always on that shouldn't be (for example - stuck water heater relay) Q3 2024 o Distributed Intelligence Q1 2025 o Distribution System Modeling Q1 2025. Will be able to identify meter phase & meters on distribution transformers. o Peer to Peer communications utilizing apps for inter-operation among meters. Production launch Q2 2025. o Managing electric vehicle charging Q2 2025 Card Slot Expansion for alternate communications or additional processing capabilities allowing for expandability in the future. Sensus is designing optional communication cards to run in Stratus IQ+ and Stratus Evolve meters in addition to the existing FlexNet transceivers in the meters. Both communications are able to operate at the same time without impacting the performance of the other. For instance – a meter equipped with a cellular option board and a FlexNet transceiver is able to communicate to the FlexNet Head End System using both.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	o Cellular (all major cellular carriers supported) Q3/Q4 2024. o GPS Q3/Q4 2024 o Wi-Fi Q3/Q4 2024 – Matter (new in-home standard for communicating to end customer equipment) o Bluetooth Q3/Q4 2024 o Direct-connect Fiber Q3 2025 • ANSI Standard Direct Current (DC) meter version – Currently in Beta testing o Form 2S and DIN Rail prototypes undergoing field testing now o Enables utilities to more accurately measure green energy loads -- solar panels, residential battery systems, electric vehicles Distributed Intelligence App Development Sensus foresees a future where apps are shared among our utility customers from a central location. Sensus will certify each app to ensure it performs properly in the meters and with the FlexNet system. • Apps will run in the meter in a container where they are isolated from other meter functions to ensure that they cannot impact normal metering functions. Sensus will support a variety of app development options including: o Sensus-developed apps o Third-party developed apps o Utility-created apps • Sensus will provide a developer's toolkit including guidance on the app development process. • Sensus will certify all new apps. Once an app is certified, Utilities can download them remotely over their FlexNet system or alternate communication cards installed in their meters with no truck roll required.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.3.19	MDM Lite Functionality: Describe the MDM Lite functionality offered by your system. This description should address functions like system water balance support, multiple meter LP data aggregation for load studies, theft detection through pattern recognition such as an outage followed by reduced consumption, etc. Also, provide information on what your other municipal customers do with this MDM functionality.	X		Some utilities need an MDM for simple but accurate data collection, management, and reporting. Sensus Essential Analytics is a bundle of applications that provides core meter data management performance, enabling daily utility operations like billing and meter and sensor monitoring. In addition to the key features found in Essential Analytics, Sensus Enhanced Analytics also provides alarm management capabilities, allowing utilities to go beyond billing applications and gain insight on system performance and health. The modular nature of Sensus Analytics allows you to right-size your analytics software by buying only the applications you need. If you want to add advanced analytics tools, the flexible platform easily scales to accommodate that.
13.3.20	The system must support display of meteorological data such as temperature, dew point temperature, and rainfall. The data must be displayed in conjunction with water usage reports.		X	This feature is not part of our standard offering.

13.4 Outage/Restoration Information System

Please fill out the table below.

Table 13-4. Outage/Restoration Information System

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.4.1	At a minimum, system must provide outage/restoration visualization using a map format (not full outage management functionality).	X		Sensus provides an optional value-add OMS application for utilities looking to enhance their outage management solution. The application extends the basic outage information for meters found in the Head

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				End System to present outage summaries overlaid on a mapping solution. Sensus' Analytics Outage Management System provides a configurable display, including reports, detailing which meters are in an outage state, which have been in an outage state, which meters have been restored, and which meters have been reported out and also restored. The price for this application is included in Network Managed Service Fees provided in Table 22-8.
13.4.2	System must provide the ability to ping the electric meter from a map format to confirm meter is still in an outage.		X	The Head End System can ping an electric meter to determine whether it is powered up or still without power; pinging a meter from a map format is not supported in the Head End System. If your future Milsoft OMS system supports this ability, the Head End System can pass real time alarm data to it using the Head End System's MultiSpeak interface.
13.4.3	System must provide per meter email and texting capabilities on outage and restoration described in Table 13-2. These texts must be able to be different for various accounts and cannot be global in nature such that all outages are sent to one text number.		X	The Head End System and Sensus Analytics can configure different types of meter alarms to trigger emails or texts to utility personnel. If your third-party systems support this ability, the Head End System can pass real-time alarm data to those systems using the Head End System's MultiSpeak interface.
13.4.4	System must provide the ability for the City to receive notification to multiple text numbers to allow them to be aware that they have an outage on the system without being overrun with text messages from each meter. This functionality should be configurable to allow the City to configure the number of outages that must occur before this text is triggered. Describe in detail how this requirement is implemented in your system.		X	The Head End System supports sending text and email notifications to WAUCHULA personnel. The capability to 'group' notifications is not supported, however. For an additional fee, Sensus' Professional Services team can develop a solution that can aggregate outage notifications.
13.4.5	The head-end system shall report on outages (blink, momentary, and sustained). These outage types shall	X		In the absence of line power, FlexNet-enabled electric meters detect, log, and report outages to the Head End System. The type of outage –

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	be configurable parameters by the City that define power loss duration for each event type. (Note that the state of Florida considers any interruption longer than 1 minute to be a sustained outage.) Describe these blink and outage parameters and how these events are reported.			momentary or permanent (sustained) – is determined using a utility-configured time threshold that can be set as low as 1 minute. This time threshold must be exceeded before the meter reports a power outage as a permanent outage; otherwise, the meter reports a momentary outage. Sensus-supplied electric meters support momentary and permanent outages are reported on a per-meter basis. Blink outages are measured and reported by the FlexNet transceiver, which measures voltage swells and sags over a programmable voltage averaging window (VAW) and automatically reports the Voltage Max, Min, and Average to the Head End System upon closing of the VAW. The settings for all these limits are programmable in the meter program.

13.5 Customer Portal

Please fill out the table below.

Table 13-5. Customer Portal

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.1	The Proposer shall include a City customer web portal as a part of their solution.	X		We have included VertexOne's Customer portal as a part of our solution for Wauchula.
13.5.2	Describe all mobile application extensions that may be available on this portal.	X		VertexOne leverages a mobile responsive design, which automatically formats the application according to the device on which it is being used. For more information on the benefits of using a progressive mobile app vs native app, please visit https://www.vertexone.net/blog/pwa-next-stage-in-customer-experience-revolution

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.3	The customer web portal software shall allow the City's customers to initialize a new portal account using their addresses, City billing account numbers and the amount of the last payment received. Initializing a new customer account shall require no involvement of City staff.	X		**VXengage** provides secure registration and login for each utility account (including AMI and non-AMI accounts, and residential, multi-family, commercial, industrial, and irrigation accounts). On the Portal registration page, the customer is prompted to enter their registration code, or account number and zip code to register. Customers are then prompted to create a password and provide their email address as their username.
13.5.4	The customer web portal's functionality shall be available for water and electric services.	X		
13.5.5	The portal must have the ability to display customer data, including: • Consumption and cost graphs for the past 12 months. (Data must be retrieved from the City's CIS system.) • Hourly (or as set in meters) interval readings for water or electric over the past 6 months. • Current consumption since the last billing for water and electric (Billing date information must be retrieved from the City's CIS system). • Billing history report for the last 12 months. (Billing information must be retrieved from the City's CIS system.) • High usage periods (based on user-definable limit). • Leak indication.	X		
13.5.6	The customer web portal software shall allow customers to set up accounts using an e-mail, cell phone number, username, and password.	X		VertexOne provides secure registration and login for each utility account (including AMI and non-AMI accounts, and residential, multi-family, commercial, industrial, and irrigation accounts). On the Portal registration page, the customer is prompted to enter their registration code, or account number and zip code to register. Customers are then prompted to create a password and provide their email address as their username.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.7	The customer web portal shall include provisions for customers to reset or retrieve their passwords and/or usernames without City involvement.	X		VertexOne provides the ability for customers to register for on-line access and to reset/recover user-id/password.
13.5.8	The customer web portal shall include the ability for the City to reset a customer's password to a default that the customer must reset on the next login.	X		VertexOne provides the ability for City staff to reset/recover user-id/password.
13.5.9	The customer web portal shall support Multi-Factor authentication as part of the account login process.	X		Based on selected functionality. Not included in base bid.
13.5.10	The customer web portal must support the display of meteorological data such as temperature, dew point temperature, and rainfall. The data must be displayed in conjunction with water and electric usage reports.	X		The customer portal features a seasonal use chart within the customer portal that provides an overlay of customer's usage history with temperature and precipitation data pulled from World Weather Online's weather data API.
13.5.11	The customer web portal shall include the ability for customers to retrieve their current water or electric meter readings via a request to the AMI head-end.	X		VertexOne will be integrating with the Sensus MDMS and VertexOne has over 75 live clients using this integration. Dues to the vast amount of data with interval read, VertexOne's standard integration is consuming data 4 times a day. VertexOne can update information from the CIS real-time.
13.5.12	The customer web portal shall be able to make bill comparisons for a customer's neighbors. This shall be based on latitude and longitude (lat/lon) to determine the "nearness" of other customers. A provision must be made to exclude immediate neighbors based on lat/lon to avoid any potential disclosure of personally identifiable information. The Proposer shall describe this functionality in detail.	X		Reads can be compared to previous billing periods or years (to understand seasonality), or relative to the Utility's goals. Residential customers can also see consumption comparisons to similar households (based on geography, number of occupants and size of irrigable area) as well as their end use disaggregation.
13.5.13	The portal shall allow customers to receive notifications of a subset of system event messages. At a minimum, outage or leak customer notifications must be selectable by individual customers through	X		Wauchula customers have the power to set volumetric and dollar-based threshold alerts in their Portal 'Communication Preferences'. Customers can set their own parameters for the High Use Notification, which is triggered when current use is set to exceed their normal seasonal use. Customers can also set

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	the portal interface. Notification of specific events shall be selectable per customer. The notification mechanism shall be customer-selectable (text and/or email). Describe this functionality for water and electric meters and define what events are configurable.			their own parameters for the Bill Forecast Notification, which is triggered when they are on track to exceed a dollar-defined bill increase. All notifications can be sent via email, text, or voice based on the customer's preference
13.5.14	The customer web portal shall display City-entered customer notification information on a per-customer or broadcast basis.	X		Alerts can be sent through multiple channels—email, SMS text message, or automated voice call. Wauchula can decide whether they would like to turn alerts on in an opt-in or opt-out manner. Customers have the ability to sign up for or edit their enrollment in various usage and billing notifications in the Customer Portal's 'Communication Preferences' section. Utility staff also have the ability to proactively send service-related alerts through email, SMS or automated phone call.
13.5.15	The customer web portal shall allow customers to use water and electric interval data to perform "what if" bill comparisons against alternate consumption usage. The portal admin function shall include the City's ability to enter alternate rates. No rate development activity is in the Supplier's scope.	X		Customers can see a chart of their current and historical water use compared to a water budget, allocation or consumption goal. Water Budgets are sent to VertexOne in a regular data feed and are then displayed alongside consumption in the Utility Dashboard and Customer Portal. Consumption goals can be displayed the same way. These have been calculated as a percent reduction from the customer's historical use, but this calculation is parameterized to fit the utility's requirements. VertexOne optionally offers a conservation Program Participation module which measures the impact of conservation programs. Utility partners use this module to study the impact of different water efficiency programs, such as toilet rebates, rain barrels, weather- based irrigation controllers, landscaping workshops, and more. For the City to update rates, the rate will need to be updated in the CIS as an option for VertexOne to call the CIS and show the "what-if" comparison.
13.5.16	The customer web portal shall include single sign-on integration to the City's existing web portal.	X		Based on selected functionality. Not included in base bid.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.5.17	The Supplier shall interface with the City's customer portal.	X		Based on selected functionality. Not included in base bid.

13.6 User Interfaces

The Proposer will provide screenshots from the software user interface showing how a system user would view each of the use cases listed in the table below. Include comments on how each of these screens would be accessed.

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For each of these User interfaces, supplier shall include a brief explanation as to how the User will perform these functions.

Table 13-6. User Interface Screen Shots Requested

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.6.1	Disconnect/reconnect management	X		Details are provided in Attachment I: User Interface Screenshots.
13.6.2	Outage report	X		Our solution complies with this requirement.
13.6.3	Meter read rate performance	X		Our solution complies with this requirement.
13.6.4	Network equipment issues	X		Our solution complies with this requirement.
13.6.5	Leak summary	X		Our solution complies with this requirement.
13.6.6	Alarms/events	X		Our solution complies with this requirement.
13.6.7	Dashboard-level view of critical system information	X		Our solution complies with this requirement.
13.6.8	Customer portal screen showing usage history and other customer-relevant information	X		Our solution complies with this requirement.

13.7 Documentation

Please fill out the table below.

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Table 13-7. Required Documentation for Project Execution

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
13.7.1	The Supplier shall provide a Microsoft Visio system diagram of the plan, from head-end system to field devices. An "as-built" update of this diagram will be required before project closure.	X		Please see Attachment J: Visio System Diagram.
13.7.2	The Supplier shall provide a list of all documentation submitted to the City during the project and as a part of training.	X		A full complement of operator's manuals, installation instructions, and related materials will be furnished as part of the training and is detailed in that section of the response. Other documents furnished over the course of the project will include Contract Documents and your FlexNet system's FCC Spectrum Lease Agreement.

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14 CUSTOMER IT SYSTEMS INTEGRATION

Please fill out the table below.

Table 14-1. Customer IT System Integration Requirements Summary

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
14.1	The Supplier shall provide the appropriate software integration to automatically transfer appropriate data to and from the billing and CIS. The City's CIS is a Tyler ERP Pro system. All licenses required to use the Supplier-provided integration software will be provided to the City by the Supplier.	X		
14.2	The Supplier shall provide the appropriate software integration to implement any other functionality described herein.	X		
14.3	The system must interface with the City's Tyler ERP Pro System to provide an equivalent set of billing inputs to Tyler ERP Pro with minimal disruption to existing City processes. **This is a mandatory requirement.** Describe in detail how this integration will be achieved.	X		We will work with the City to complete the integration process by utilizing a proven methodology. Sensus/Core & Main has successfully accomplished many previous integrations.
14.4	The Supplier will be responsible for integrating their installation contractors Work Order Management System (WOMS) with the City's CIS System for meter exchanges with minimal disruption to existing City processes. This integration is only for the field deployment phase of the project. **This is a mandatory requirement.** Describe in detail how this integration will be achieved.	X		This will be provide in a flat file designed for easy upload into the City's CIS.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
14.5	The existing City metering and billing process flow is shown in Exhibit A Figure 1-3, and the anticipated flow during and after this project is shown in Exhibit A Figure 1-4. The Proposer shall describe how 1) its WOMS fits into this plan, 2) individual installations are managed, and 3) the data flows back to the AMI head-end system and the City's Tyler ERP Pro System.	X		Core & Main will ensure that all necessary data is transferred via a flat file from the WOMS into the City's CIS. The WOMS will keep track and require proof of installation via photographs for each installation.
14.6	The existing Tyler ERP Pro System must remain fully functional during the rollout. Describe how the Proposer will support this need and ensure a smooth transition to full AMI billing operations with meters being removed and replaced daily.	X		We will provide a flat file of meter installations on a basis agreed upon by both parties. This will allow for an easy and smooth upload of customer data.
14.7	The Supplier will provide an integration to the City's Customer Portal (Tyler ERP Pro Smart Meter Access).	X		
14.8	The Supplier will provide an integration of lat/lon data gathered by the meter installer into the Tyler ERP Pro system or other geolocation system of record chosen by the City.	X		
14.9	Proposer to include any recommended integrations for Distribution Automation and SCADA capabilities.	X		Integrations can be provided. More information and workshopping will be needed to price full integration.

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15 SECURITY

Please fill out the table below.

Table 15-1. Security System Requirements Overview

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.1	The entire network shall have an overall security scheme from the AMI head-end system through meters and other field devices. Please describe this scheme.	X		As a global technology leader in AMI solutions, Sensus is committed to information security and ensuring that your data is safe and protected. This commitment extends to Sensus' assets and information, customer-hosted environments, and AMI solutions developed by Sensus for our customers. To ensure this commitment to information security, Sensus has developed information security policies specific to our organization and products. These policies address a variety of business and technology areas, including network, system, and application security. Our policies provide guidance to Sensus personnel within the information security domain and ensure our compliance with government regulation, industry standards, and information security best practices. Sensus implements AES-256 bit encryption across the entire FlexNet communication network – from the meters and other endpoints in the field to the FlexNet Base Stations to the Head End System. Base stations backhaul communications are secured and validated using a Transport Layer Security (TLS) Virtual Private Network (VPN). This ensures the integrity of the communication across an Internet Protocol-based (IP-based) backhaul network that can be public. All sensitive data at rest or in transit is encrypted using strong commercial-grade encryption protocols (such as TLS, SSH, PGP, and SFTP). This provides protection for all data exchanged and stored within the Sensus FlexNet solution. Sensitive data stored on the system is limited to cryptographic keys, and passwords.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.2	Over-the-air security is required for all system components, including head-end, network components, backhaul communications, meters, and field devices (handhelds, etc.). Please describe the encryption method, key management process, related functions, and applicable standards for each system and device. While NERC CIP compliance is not currently a City requirement, the City would like security across the system to be NERC CIP compliant. Describe the level of such compliance provided.	X		Per our response to Requirement 14.1.1, a 256-bit encryption scheme is used for all endpoint types, including electric meters, water meters, and distribution automation endpoints. In a FlexNet system, encryption provides end-to-end protection. Encryption on the meter occurs on the SmartPoint communication module. Once a meter receives a communication from the Head End System, it retrieves the unique key from local storage, uses it to decrypt the command, validates that the command came from the Head End System, and then processes the command. Should anything fail in this process, the meter will not complete or acknowledge the command. This is then recorded in the Head End System. This encrypted communication protects all messages transported across the FlexNet network from eavesdropping, man-in-the-middle, injection, and spoofing attacks. The FlexNet system is compliant with NERC-CIP 002-009, CIP---1, and CIP-004.
15.3	Security is required for public-facing applications, such as customer usage/profile data. Please describe the encryption method, key management process, related functions, and applicable standards for each system and device.	X		Sensus believes security is of primary importance when developing its software products. The Sensus Customer Portal has been designed to guard against security threats using the following methods: • SQL Injection • Cross Site Scripting • Broken Authentication and Session Management • Insecure Direct Object References • Cross Site Request Forgery • Restricted URL Access • Transport Layer Protection with SSL/TLS • Remote Code Execution All personally identifiable information is encrypted.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.4	For any other devices such as thermostats, streetlights, etc. included in the proposal, security is required. Please describe for each system and device the encryption method used, key management process, and any other related functions and any applicable standards.	X		All FlexNet-enabled endpoints use the same AES-256 bit encryption implementation. Zigbee-enabled endpoints use the Zigbee Alliance standard 128-bit encryption method from HAN devices to the electric meter they are paired with.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.5	Is a security maintenance program in place? If so, describe the frequency of key updates, password updates, etc. Describe actions the City must take to maintain security, such as staff password management, customer portal account password management, etc.	X		We have developed a robust program of security validation and testing that involves internal and external resources, enabling our products to evolve as security testing and validation evolves. For example, Sensus security testing is a standard part of every new product or software release. For WAUCHULA ’s FlexNet system, your System Administrator will manage the rules your system requires for new passwords your internal users as well as encryption key rotation. This includes managing user role permissions for your team and adding or removing team members as needed. Password Policy When using our RBAC, utilities can configure their own password policy rules to meet their security requirements. This is performed through administration web pages, for individuals with the appropriate user permissions. Audit logs are available that track each failed login; the logs can be forwarded via syslog to an external logging server. Sensus Customer Portal For the Customer Portal, we have designed user account management to be self-serving, where your end customers can manage their account themselves. The Customer Portal allows for utility Customer Service Representatives (CSRs) to look up accounts from many fields. When the Customer Portal is being used, there is a click-through button that allows CSRs to see exactly what the consumer is viewing on the portal. From there, the CSR can use the Device Access application to access any data that might address the consumer’s questions.

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15.6	Describe third-party penetration testing performed on the system hardware, firmware, and software included in your proposal. Please state, when completed, any critical findings and frequency at which such testing is repeated. Also, describe how this testing was conducted and how often it is repeated.	X		In addition to Sensus' internal Quality Assurance (QA) resources which tests every new hardware, firmware, and software version prior to its release to our customers, our security team performs regular monthly security assessments and penetration end-to-end tests on our internal FlexNet systems to ensure current and future releases do not contain vulnerabilities. The security team uses a variety of open-source and commercial tools that include (but are not limited to) the following: • Nessus • GE Digital Achilles (Wurldtech) platform • Checkmarx dynamic scanning • Checkmarx static scanning • Proprietary fuzzing and grammar checking Internal Security Assessments • Dedicated Sensus security team - Responsible for all Sensus data center security for our SaaS customers - Actively participates in and monitors industry regulation and standards regarding security (such as InfraGard, NERC, FERC, NIST, OpenSG, etc.) • Monthly vulnerability scanning • Patch and antivirus management Third-Party External Passive and Active Testing We employ external security experts to perform the following testing and validation on an annual basis and during major revision changes to our products: • Architecture and code reviews (NCC Group, IBM) • End-to-end penetration testing of the Sensus environment on an annual basis (Wirehead Security, Rapid7) • End-to-end security assessment and penetration testing on customer environments (SAIC, Bishop-Fox, GE Digital/Wurldtech) This testing provides us and our customers with an objective, third-party assessment of system security, as well as the security of the system as implemented in customer environments. Any issues or vulnerabilities discovered are communicated to the development teams to be corrected through our

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				change control process. They are re-tested once a new version of software is available.
15.7	If a security event is detected, a process must exist to notify the City and support any customer questions/concerns. Describe this process.	X		Security updates are presented in the security users group meetings which is one of our several customer-run customer sub-committees. We recommend that a WAUCHULA IT representative participate in this group. If a security vulnerability is discovered and validated, Sensus is committed to a timely release of information and certified patches on the various components of our products. To ensure secure quality products, Sensus is committed to providing the following: High Risk Vulnerability: • Notification of plan within 24 hours of release from Sensus or third party. • Assistance with mitigating controls and configurations. • Certification of software update within 30 days. Medium Risk Vulnerability: • Notification of plan within three (3) business days of release from Sensus or third party. • Assistance with mitigating controls and configurations. • Certification of software update within 90 days. Low Risk Vulnerability: • Notification of plan within ten (10) business days of release from Sensus or third-party • Assistance with mitigating controls and configurations. • Certification of software update provided with next release of Sensus software.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.8	Has a security issue forced a component or system update in the past 12 months? If yes, describe that incident and the response.	X		Yes. Typically, monthly, security patches are performed on our systems to stay current with the ever evolving need to improve security as new threat vectors develop.
15.9	For managed services, please detail the location of servers, backup systems, and associated security plans—cyber and physical.	X		For our Software as a Service (SaaS) customers, Sensus maintains data centers in Raleigh, NC, and Boise, ID. One location will be your primary data center with the other serving as the disaster recovery site. As a global technology leader in AMI solutions, Sensus is committed to information security and ensuring that your data is safe and protected. This commitment extends to Sensus' assets and information, customer-hosted environments, and solutions developed by Sensus for our customers. To ensure this commitment to information security, Sensus has developed information security policies specific to our organization and products. These policies address a variety of business and technology areas, including network, system, and application security. Our policies provide guidance to Sensus personnel within the information security domain and ensure our compliance with government regulation, industry standards, and information security best practices.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
15.10	Role-based security must be implemented to allow the City to restrict functionalities to various levels of its personnel to prevent unauthorized activities. An example of this is the water meter disconnect. This ability and other such critical functions must be able to be restricted by City-defined roles.	X		Head End System - User Management The Head End System uses Role-Based Access Control (RBAC) to its interfaces to validate access, ensure separation of duties, and restrict access to critical functions. This approach provides a granular level of access control for the various roles required by complex organizations. User Permissions User permissions define what actions each user can perform. Permissions are not only related to read and write functions, but also access to features and actions available within the system. User Roles User roles are a convenient way to provide a new user with the appropriate permissions, as many users are comprised of the same type and have the same permissions. The utility can define common user roles, and then are able to quickly determine what user type a new user is when adding them to the system. If permission changes are made at the user role level, any user with that user role will get the new set of user permissions without the administrator having to edit every single account. The system provides a default set of pre-defined user roles for out-of-the-box convenience. You can create and edit unlimited roles with granular permissions, depending on your access control needs.

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16 SYSTEM PERFORMANCE

Please fill out the table below.

Table 16-1. System Performance

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
General				
16.1	Excluding planned outages for maintenance, system operational availability shall be 99.9%.		X	Sensus will commit to mutually agreed service levels (SLAs) for your FlexNet system in the SOW which will have a section for service level agreements. The FlexNet system we have proposed for you provides 100% RF coverage and 100% redundant coverage of the water meters, electric meters, and DA endpoints in your service territory using 14 base stations. Sensus guarantees 99% or higher availability (uptime) for your SaaS Head End System. Notably, the Head End System has observed availability in Software as a Service (SaaS) production environments of greater than 99.5% availability. Please refer to Attachment C: Sample AMI Agreement for SLAs on system uptime rate.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.2	Describe all occurrences that could cause communications degradation and affect required read success rates and the percentage of bandwidth loss expected for each occurrence. This includes environmental issues such as rain, seasonal foliage changes, etc.	X		The FlexNet system, which uses our primary-use RF frequencies, is designed to provide high performance in all-weather environments. We have designed your FlexNet system to account for both your local terrain and clutter (which includes foliage, buildings, and other obstacles as described in the propagation study.) Selecting a FlexNet AMI system also offers your team the assurance of protection from RF interference – guaranteed by the FCC. Your AMI system will be the only authorized user of your RF frequencies in your service area which we will assign to UICNSB for the life of your system. Sensus' All Paths Always (APA) architecture enables your endpoints to communicate to the Head End System through all nearby base stations all the time, 24x7x365. This continuous, overlapping RF coverage provides additional capability to achieve continued performance – especially in severe weather. For water meter installations, the SmartPoint's RF transmissions will be impacted if the location is under water due to a storm surge or hurricane. The amount of signal degradation will vary depending on the depth of the water at the site. Once the water recedes, the location's performance will go back to normal.
16.3	The hosted AMI network shall be monitored for performance, with regular reports to the City of read success and other critical KPIs. Describe monitoring and reporting of the AMI network performance.	X		The Head End System offers several monitoring and real time performance screens that can be used by your team to verify your system's performance – 24x7x365. Sensus will work with your team to define KPIs for inclusion in the SOW for your FlexNet system.
Billing Demand Reads				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.4	Loss of any previous demand and consumption registers for demand meters shall be 0%. This may be achieved by retries that read previous demand registers if needed but no loss of demand data shall occur. Describe your electric meter demand reset and read process that ensures this level of performance. This requirement also applies to any meters that are configured for TOU with demand.		X	Sensus cannot guarantee a perfect 0% loss; however, we have mechanisms built into the system's design to retrieve missed messages. An example where a 0% level is challenging is if a meter has not communicated because it is powered off and can't communicate. Another example is when the paperwork processing a meter change-out has not gone through yet and a meter has been swapped out for another. The Head End System supports the ability to receive demand and TOU readings from electric meters in the field. For missing electric meter reads, including demand reads, the Head End System supports an automated backfill process where missing reads are requested from meters in the field. No user intervention is necessary in this process. In addition, the Head End System supports the ability to ping a meter for its missing readings. Electric meters may be programmed to perform the demand reset themselves, or the Head End System supports the ability to receive demand reset requests from WAUCHULA 's integrated CIS or other third-party software. These 3rd party software requests are automatically processed by the Head End System as they come in.
Register and Load Profile (LP Interval) Reads				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.5	Ninety-eight percent of electric and water LP data shall be read daily and be available by 1 AM. This is required for intervals as short as 5 minutes for all meters.		X	Most meters send in their final reading of the day at midnight. The register read transmission times, frequency and time of day is configurable by the utility in the meter programs. The FlexNet system is designed to perform backfill as a normal process to acquire any missing reads that have not in yet. This tried-and-true procedure has provided our utility customers with high read success. For backfill to have time to run, time is needed for additional readings to come in. Currently, the next billing read for electric and water meters is scheduled to come in around 4 a.m. to fill in any missing readings. FlexNet is constantly performing this backfill function; therefore, a 1 a.m. deadline may or may not be relevant. We interpret this requirement to be more relevant to systems on a single time read. Our system typically needs more than an hour to complete the fill-in process, but with the low latency design of FlexNet, it is highly likely that an excess of 98% is achievable. Once the backfill process completes later in the morning, missing rates will become available.
16.6	A retry strategy shall automatically collect missing reads, ensuring 100% of register and LP data for any given day are read within 3 days.	X		We have designed FlexNet to meet a goal of 100% coverage for all of your electric and water meters. In addition, our system provides 100% redundancy coverage for your meters.
On Request Reads				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.7	On-request reads from the head-end system for any metered or status quantity from any electric meters shall succeed in 10 seconds or less for 98% of attempts.		X	Different endpoint types support different response times. For electric meters and DA endpoints, which are electric powered devices, fast speeds are supported. Water meters and SmartPoints, which are battery powered, require longer response times to maintain their on-board battery's life. Instantaneous on-demand reads are available for electric endpoints and typically arrive in 10 seconds once the meter receives the request. On average, water endpoints respond to on-demand read requests in 30 to 90 seconds for a small group of meters. These readings will be from the meter, not old, stored data in the SmartPoint. For on-demand requests from large numbers of water meters, a broadcast method is used which takes about 4 hours to return the data.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.8	For water meters, on-request reads shall succeed in 15 seconds or less for 98% of attempts. Describe the on-request read mechanics for water—values in real-time from the meter or last read value stored in a data concentrator or some other device.		X	As discussed in Requirement 15.1.8, communications to water meters and their SmartPoints are designed to preserve long battery life. These readings will be the latest reading available in the meter itself. Water SmartPoint On-Demand Reads Water SmartPoint communication modules provide the ability to conduct on-demand reads from water meters, and these reads can be accomplished in one of two ways, depending on the use case. There are three use cases supported by the FlexNet system for on-demand reads of water meter endpoints. We have designed these use cases to support fast responses for smaller numbers of meters, where the information is needed quickly, as well as being able to support large batch on-demand requests. The FlexNet system will automatically use the fastest means based on the number of meters in each on-demand request. The first two use cases below use individual queries to each of the respective meters, and these are completed one at a time. The third option, which is designed for large batch requests, uses a parallel strategy where all meters are queried simultaneously after the last billing read transmission, which occurs every 4 hours. • For the use case where a utility Customer Service Representative (CSR) needs to ping a water meter while on the phone with a customer, the FlexNet system supports fast on-demand responses. Typically, the on-demand read will be received by the representative in 30 to 90 seconds. • For the use case where up to 240 meters are being reached, and an on-demand read is needed, the on-demand read response is about 1 minute per meter. • For larger-batch on-demand read requests, the FlexNet system uses a parallel communication strategy called Listen After Talk (LAT). This method is designed for large-batch requests and will return the requested on-demand reads in about 4 hours.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.9	Low payload responses minimally including meter pings shall respond in 2 seconds or less 98% of the time.		X	The FlexNet system supports fast communication with different endpoint types support different response times. For electric meters and DA endpoints, which are electric powered devices, fast speeds are supported. Meter pings responses for electric endpoints typically arrive in several seconds of receiving the ping from the Head End System. Water meters and SmartPoints, which are battery powered, require longer response times to maintain their on-board battery's life. On average, water endpoints respond to pings requests in 30 to 90 seconds for a small group of meters. For large numbers of water meters, a broadcast method is used which takes longer. In outage situations, when some electric meters are often powered down, the Head End System supports the ability to automatically ping electric meters based on their normal communication success metrics. A % confidence number is entered by your team; the Head End System will ping each meter indicated an appropriate number of times to achieve this % confidence that a meter is powered up or powered off. This solution has been designed in conjunction with our customers to help in the outage restoration process.
Disconnect/Reconnect				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.10	Electric meter disconnect and reconnect requests shall occur after initiation with confirmation received within 30 seconds for 99% of requests. Any disconnect request must also return the current register read.		X	The Head End System sends connect/reconnect commands to electric and water meters in the field. This can be accomplished using a job in the Head End System itself, or with a manual request, or via requests from an integrated third-party software. Confirmation of the connect/disconnect will be available in the Head End System GUI within minutes with most electric meters responding within 30 seconds. A register read may be retrieved too using an on-demand request which requires another Head End System request to the meter. On average, water endpoints respond to commands and requests in 30 to 90 seconds for a small group of meters. For larger groups of water meters, a broadcast method is used and is a longer process, as described above.
16.11	Water meter disconnect and reconnect requests shall occur after initiation, with confirmation received within 1 minute for 99% of requests. Any disconnect request must also return the current register read.		X	The given time frame for a full activation and acknowledgment is 2 minutes. While most operations occur within the 1 minute time frame.
Outage/Restoration Information				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.12	Individual electric meter outage and/or restoration shall be reported to the head-end system and viewable on the UI within 1 minute for 99% of occurrences.	X		Sensus expects that WAUCHULA will receive outage alarm messages in the initial outage alarm time block (0 to 32 seconds) for an electric meter. Configurable Outage Detection Time Threshold Each time the FlexNet transceiver in an electric meter detects the absence of power at the meter, an algorithm prompts it to evaluate the condition to determine whether the loss of signal is due to a momentary outage or a permanent outage. The type of outage reported is defined based on a configurable time threshold in the electric meters. WAUCHULA can program the meter to recognize a permanent outage after detecting an absence of power for as few as 8 seconds or as many as 120 seconds. Normally the time selected is after the distribution line's protective devices -- breakers, reclosers, and lateral fuses – have operated before a permanent outage is declared. Outage alarms are available for viewing in the Head End System's Device Manager GUI and can be passed to other integrated WAUCHULA software systems via the Head End System's real time MultiSpeak AMI interface, if desired
16.13	Outages and/or restorations including 200 meters or less shall all be reported to the head-end system and viewable on the UI within 1 minute for 99% of the affected meters.	X		Sensus expects that WAUCHULA will receive these outage alarm messages in the initial outage alarm initial time block (0 to 32 seconds). As noted above, the Configurable Outage Detection Time Threshold, in the electric meters' program will impact the reporting time for declaring a permanent outage condition.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.14	Large scale outages and/or restorations including up to the entire the City electric meter population shall be reported to the head-end system and viewable on the UI within 5 minutes for 99% of the affected meters.		X	In a FlexNet system, electric meters are designed to transmit four outage alarms over ten minutes following a permanent outage. The 10-minute hold up time is maintained by a supercapacitor on the FlexNet transceiver in the electric meter. Sensus customers have told us that their FlexNet system provides them with timely outage and restoral information which helps them restore power faster to their customers. Sensus expects WAUCHULA to receive most outage alarm messages in the initial time block (0 to 32 seconds). After the momentary outage time threshold is exceeded, the meter randomly sends the first permanent outage notification within a timeframe of 0 to 32 seconds. It then randomly sends three subsequent messages in successive 184-second windows. Each successive message increases the probability that the outage notification will be successfully received by the base station's nearby when a widespread outage condition occurs.
16.15	Text messages and emails sent as part of the outage and restoration information system shall be initiated within 1 minute of the head-end system receiving the related notification.		X	Emails and text notifications are supported. The time to send is longer than one minute.
Over the Air Firmware Updates				
16.16	Field devices shall continue their normal operation during a firmware update. Once the new firmware image has been completely received, the system shall include the ability for the City to switch to the new image on an individual device or group of devices. The download should take no more than 1 day per device, 2 weeks for all devices, and the switch should take less than 5 minutes.		X	All endpoints continue to operate normally during a firmware update. Under the proposed NaaS model, Sensus is responsible for all firmware upgrades throughout your system. Once the new firmware download to the meter has been confirmed to be valid, the switch to the new firmware file will be a few seconds. The process of upgrading all your endpoint firmware may take longer than two weeks based upon the quantities of units being updated for your system.
System Scalability				

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
16.17	System must be scalable to continue to satisfy the City's future needs throughout the managed services contract period. While no DA devices are planned to this point in the project, support for DA devices identified by proposer in numbers typical for a utility the size of the City must be supported in the future without degrading any of the system functionality implemented. Provide confirmation the proposed system meets this requirement and provide the assumptions made including number of DA devices assumed, type of devices and network bandwidth requirements for each.	X		Sensus has designed a robust FlexNet system that provides 100% RF coverage and 100% redundancy for your electric meters, water meters, and DA endpoints as listed in your RFP. The system also has room to grow over time.

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17 FIELD INSTALLATION AND WORK ORDER MANAGEMENT SYSTEM

17.1 General

Please fill out the table below.

Table 17-1. General Project Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.1.1	Identify and describe the Proposer's prior experience with the planned installation subcontractor.	X		
17.1.2	Identify and explain any constraints or preferences the Proposer has regarding the order of installation of field devices (e.g., electric meters before water meters).	X		No Constraints both meter types will be installed simultaneously
17.1.3	The City will supply a list of VIPs to the Supplier's installer. Also, there are no medical disconnects. The installer will consider these items when scheduling appointments and managing customers.	X		Procedures for VIP and Medical critical customers is included in our procedures
17.1.4	Describe the personal protective equipment used by installers. Also, describe field practices and the safety processes to ensure equipment is maintained, checked, and adequate for safe usage.	X		
17.1.5	The Proposer shall discuss how a temporary installer stand-down requested by the City would be implemented and include pricing in the supplied Pricing sheet.	X		

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	The City reserves the right to issue a stand down at no cost due to excessive or significant safety violations.			
17.1.6	The City will supply fenced storage and limited offsite office space for the Supplier's installation subcontractor. Describe the installer's needs in this area.	X		
17.1.7	The Supplier shall ensure that its installation subcontractor is provided with all training and documentation related to the Supplier's products needed to execute safe, high-quality installations of all devices.	X		
17.1.8	The Supplier or its subcontractor will supply all required field installation tools, including handhelds.	X		
17.1.9	Supplier will be responsible for resealing meters. Required seals and rings to be supplied by the City.	X		
17.1.10	The Supplier and its installation subcontractor shall use handhelds capable of scanning meter/module bar codes, and the WOMS must include processes that ensure that the bar code of the installed meter/module is scanned post-installation such that the data exported to the City's billing system is ensured to contain the correct meter to customer correlation. For water meters, this process must also ensure proper correlation of the meter module serial number to the water meter body serial number.	X		
17.1.11	The City's water account billing is organized into five billing cycle periods with fourteen manual	X		

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	reading routes. The Supplier must work with the City to develop a strategy to avoid billing interference during installation. This may or may not require a billing blackout window. The Proposer shall provide its initial input to this approach as a part of their proposal.			
17.1.12	Handheld devices must be secure. Describe the security features enabled in installer handhelds.	X		
17.1.13	Installers shall use a mobile work-order management system to manage the meter deployment.	X		
17.1.14	The Installer WOMS system must retain access to all installation-related documentation (pictures, notes, account information, etc.) for 3 months after the conclusion of the deployment.	X		
17.1.15	Describe the integration process for establishing data exchange between the proposed WOMS system and the City's CIS system and ensuring these systems stay synchronized throughout the deployment process.	X		
17.1.16	The Proposer should describe the premise data that the City will need to provide per premise for use by the installer.	X		All software will be Cloud Hosted. Any field software will be installed on either a Windows PC or Android handheld device.
17.1.17	The Proposer shall discuss how changes to the City's metering system data, such as new accounts, are communicated to the Supplier so they can update their Workorder systems during the project.	X		

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.1.18	The Proposer shall describe all meter programming data requirements the City must supply.	X		All configuration profiles will be set up and installed on handheld devices and City PCs by Core & Main/Sensus. Requirements are standard Windows PC and/or Android handheld device.
17.1.19	The Proposer shall include in the supplied pricing sheet the pricing for the appropriate number of City-owned handheld devices required for the meter population in this RFP for future meter programming and troubleshooting required by City field personnel.	X		It is recommended that at least 3 devices are purchased.
17.1.20	Describe in detail the field and material management processes, including: • Receipt inspection. • New installer onboarding/training so the installer can install independently. • Safe driver training and instruction. • Material issuance to installers. • Inventory control and periodic true-up. • Return material authorization. • Return to utility process—number of attempts, etc.	X		
17.1.21	Describe the proposed due diligence process to ensure accounts that are not exchanged upon the initial site visit (e.g., Can't Complete) are systematically processed to maximize installation success rate. Please include: • Number of site visits (minimum of 2) • Number of calls for scheduling appointments including number of after-	X		The process will be tracked through the Installation WOMS. This process will include multiple attempts before an installation is returned to the City for further investigation.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	hours calls (minimum of 3 calls with one being after-hours) • Proposed sequence of visits and calls including duration between events			
17.1.22	The installer must capture GPS coordinates for all field-installed devices and meters, upload them to the head-end system, and make them available for the outage visualization portal. Lat/Lon in decimal degrees is preferred, with a six-decimal place resolution collected at the point of the physical meter with accuracy dependent on the device used for collection. Sub-meter accuracy is not a requirement. Proposer to specify delivered accuracy at the point of the meter. Preferred accuracy is within 2 meters of the physical meter.	X		
17.1.23	The Supplier shall submit all proposed attachments to City-owned infrastructure for prior approval.	X		
17.1.24	The Supplier's installer shall provide pricing in the supplied pricing sheet for meter box remediation, including: • Leaks upon arrival (notify the City). • Meter box damage. • Box too low or high. • Tree root intrusion. • Apparent tampering (notify the City). • Safety concerns. • Sites requiring repairs. • Obstructed meters.	X		

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	• Damaged electric service entrance			
17.1.25	The City desires that the installation portion of this project be turnkey to the extent possible. As such, the Proposer should include pricing in the supplied pricing sheet and other blocking conditions that the installer has encountered in other projects.	X		
17.1.26	The Supplier will provide pricing in the supplied pricing sheet for replacement lids and meter boxes to repair damaged units encountered during deployment. The City will provide the purchasing standard for these items.	X		
17.1.27	The Supplier will provide pricing in the supplied pricing sheet for remedying meter boxes substantially below or above grade.	X		
17.1.28	The Supplier will provide pricing in the supplied pricing sheet for remediation of any as-found damage/deficiencies in plumbing connections including materials.	X		
17.1.29	The Supplier will provide pricing in the supplied pricing sheet for remediation of meter yokes or risers that are encountered in need of repair. Bidder to provide replacement materials.	X		
17.1.30	Standard working hours for installation activities are Monday-Friday, 7 AM to 4 PM (last install). Fieldwork outside these hours, including weekends, must have prior approval from the City.	X		

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	While not preferred, weekend work can be supported if needed to remediate the project schedule.			
17.1.31	The Supplier to describe its Quality Assurance (QA) field installation audit process. Provide details demonstrating that audits are conducted by an independent auditor (prevent self-audit), randomization such that all installers are periodically audited, target audit percentages (% of installs) throughout the deployment period, and typical items that are audited as part of the process.	X		

17.2 Return Material Authorization (RMA) Process

Please fill out the table below.

Table 17-2. RMA Process Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.2.1	Describe the RMA process used during installation and afterward by the City. Describe the process for products under and out of warranty. Include each type of device provided by the Proposer.	X		
17.2.2	Describe the level of root cause analysis provided with each RMA returned to the City.	X		
17.2.3	Describe the historical RMA turnaround times for each device type proposed for this project.	X		

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17.3 Call Center

Please fill out the table below.

Table 17-3. Call Center

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.3.1	Describe the call center process to be used during installation for appointment scheduling. This includes appointment scheduling from customer call-ins as well as call center staff pro-actively calling customers to setup appointments.	X		Please see Installation Scope Documentation
17.3.2	Describe the customer complaint resolution from the initial call to the final issue resolution.	X		Please see Installation Scope Documentation
17.3.3	Describe how this call center will be integrated with the City's call processes. Describe the ability to access call center records, including notes taken at calls.	X		All of our customer appointments are scheduled in out WOMS, Cities call center staff can be provided limited access to view technicians scheduled appointments for customer service.
17.3.4	Describe hours of call center operation and support for after-hour calls (5 PM to 8 PM).	X		Bermex does provide Call Center in Florida from 5pm to 7pm. Customer can schedule appointments via our portal 24 hours a day or leave a voice message and we will return calls from 8am to 7pm Monday-Friday
17.3.5	Describe and provide any scripted responses used by the call center.	X		Call Center Scripts will be detailed out during our kick off meeting with the utility as these are all unique to each installation. Our team will prepare the scripts and present prior to project kickoff
17.3.6	Describe the call center recording process for recording calls between representatives and customers.	X		All Calls are recorded and archived for 30 days. These can be converted to digital wave files but are bookmarked by the time and call center rep when they initiate the call
17.3.7	Describe the call center issue escalation process.	X		See Installation scope document

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.3.8	Describe your customer notification and scheduling process and the call center's role.	X		Customer notification is done by postcard, doorhanger and phone call. Postcards have QR link to our 24 hour portal for appointment scheduling. Please see Installation Scope Document for further details
17.3.9	Describe all planned door hanger notifications, their placement time, and their content.	X		Please see Installation Install procedures for doorhangers
17.3.10	Describe all planned customer notification letters, the time they were sent, and their content.	X		Each postcard will be designed specifically for each project. They will detail project scope, time when will be in area to commence installs and how to contact Bermex or a City representative
17.3.11	Call center personnel should have visibility into the WOMS field scheduling for informed customer discussions.	X		All CSRs will have access as appointments are scheduled in WOMS
17.3.12	Describe all call center audits and processes for corrective measures.	X		Please see Installation Install scope documentation

17.4 Scrap Material

Please fill out the table below.

Table 17-4. Scrap Materials

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.4.1	The Supplier will process all scrap meters and City-owned scrap materials (electric meters, water meters, water modules) on a mutually agreeable periodic basis.	X		

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	The City does not have a retention requirement for legacy meters prior to disposal. Picture documentation will be utilized to address any customer questions.			
17.4.2	All disposal permitting (including for batteries) is the Supplier's responsibility.	X		
17.4.3	The Supplier will provide an option for disposing of water and electric meters for a set administrative fee while providing remaining credits to the City for acceptable scrap value of materials. Credits would be offset from outstanding invoices.	X		Administrative Fee of 15% is added to all Credited Invoices

17.5 Personnel

Please fill out the table below.

Table 17-5. Project Personnel Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.5.1	The Supplier will be responsible for the complete training of their installation contractor personnel. Describe that training, including safety and QA aspects. Describe the incremental qualifications required for transformer rated electric installers, larger commercial or compound water meters.	X		Please see AMI electric and water field training course outlines in Bermex File.
17.5.2	Describe the field supervision structure envisioned for the installation phase of this project.	X		Project Manager who will oversee the project, Field Auditor who is responsible for conducting audits on completed inspections daily, these audits are used for training and process improvement. Desk Auditor who

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
				reviews all data entry to ensure that all information is captured correctly and provided to the customer daily.
17.5.3	The Supplier's installation subcontractor personnel must wear a picture identification badge that is visible to customers. Describe this badging process.	X		Employees is provided with a company badge from Bermex, we also like to have a badge supplied by the Utility/City showing us a contractor for the project. All badging is kept displayed on the outer most garment and provided to customers for review. We do not allow customers to take our badge but may view it on our person.
17.5.4	The Supplier's installation subcontractor personnel must be uniformly dressed and drive vehicles easily identifiable with the company name and logo. Describe how this will be implemented. Project-specific signage must be reviewed and approved by the City.	X		All Vehicles are provided by Bermex and are uniform in their appearance, are clearly marked with decals. We will add additional decals to the vehicle stating contractor working for the city and will have the decal approved prior to printing
17.5.5	Describe the installation subcontractor background and drug testing processes.	X		All employees are put through Preemployment, Post Accident and Random drug testing. Additional each employee goes through a background check to confirm National felony search, National Sex offender Registry, Driving Record, Education, and Local and State Criminal Search
17.5.6	The City shall have the right to deny installers access to City property and request their removal from the project for any reason.	X		
17.5.7	The Supplier's installation subcontractor personnel must be fluent in the English language.	X		

17.6 Safety and Environmental

Please fill out the table below.

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Table 17-6. Safety and Environmental Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.6.1	The safety of the City's customers, employees, and subcontractors is paramount. Personnel safety only supersedes environmental protection as a City concern. The City expects all Supplier and/or subcontract personnel on City property to observe the City's safety and environmental processes and all applicable state and federal rules and regulations.	X		
17.6.2	The Supplier's installation subcontractor shall have a documented safety training program to which all installers must adhere. Provide this document if a subcontractor has been selected.	X		Safety Documentation attached
17.6.3	All safety issues or accidents during installation must be reported to pre-established/agreed City staff and organizations immediately. Provide this proposed process.	X		Incidents are documented in our WOMS, Pictures taken and reported immediately via phone to Utility contact. Incident remains open until cleared by the Utility
17.6.4	The Supplier must provide the required safety training to all installers. The installer/Supplier shall provide OSHA 300 reporting. Training shall include, at a minimum, electrical and arc flash hazards.	X		
17.6.5	Describe your overall safety program, including training, protective gear/PPE issuance and maintenance, audits, reporting, etc.	X		Please see AMI electric and water field training course outlines in Bermex File.
17.6.6	Describe your safety driving training program (e.g., Smith Driving or equivalent).	X		Each vehicle is tracked using Real Time GPS and monitors for bad driving behavior. Additionally drivers are put through Smith Systems driving course

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17.7 AMI Electric Meters

Please fill out the table below.

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.7.1	The Supplier's installation subcontractor shall follow a process to ensure electric AMI meters are readable from the head-end system post-installation before invoicing.	X		
17.7.2	The City has some net-metered customers now and expects more to be added. These customers will have a meter that is configured to read delivered and received energy. It is anticipated that all AMI electric meters will have the ability to meter delivered and received energy. How will any net-metered customers be identified to the installer such that delivered and received energy is delivered to the head-end and made available for billing? Proposer to describe process.	X		These customers will be noted by the City, then the WOMS will make note of each account that is under these requirements.
17.7.3	Supplier shall be responsible for defining logistics and managing meter base repairs (e.g., meter box, lid, internal components, overhead service line, or other condition requiring repair). Supplier shall utilize a licensed local electrician to ensure that all work is completed to the City's standards.	X		

17.8 AMI Water Meters

Please fill out the table below.

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Table 17-7. AMI Water Meters Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.8.1	The Supplier's installation subcontractor shall follow a process to ensure water AMI meters are readable from the head-end system post-installation before invoicing.	X		
17.8.2	The Supplier shall be responsible for defining logistics and managing all plumbing repairs encountered during installation (e.g., valves, broken pipes, etc.,) including materials. The Supplier shall use a locally licensed plumber to ensure all work is completed to the City's standards. Pricing for repairs shall be included in the supplied pricing sheet.	X		

17.9 Network

Please fill out the table below.

Table 17-8. Non-Metering Network Device Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.9.1	The Supplier's installation subcontractor shall follow a process to ensure all non-metering network devices communicate with the head-end system post-installation before invoicing.	X		

17.10 Photos

Please fill out the table below.

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Table 17-9. Photo-Documentation Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
17.10.1	The installation subcontractor shall obtain before and after photos of all meters. The photos must include clear views of the meter register reading and serial number.	X		
17.10.2	The Proposer shall describe the file naming convention and process for capturing and storing these photos. All photos and other site data will be provided to the City via mutually agreeable secure media at the end of the project. They shall be easily searchable and tied to an agreed account reference/key. The City shall have access to site photos during the rollout within 2 days of each installation.	X		Each picture is captured and uploaded to our Work Order Management System. A PDF work order can be generated for each install and the city may archive them for future use
17.10.3	All photos will be date and time-stamped and geotagged.	X		
17.10.4	The installer will purge all City-specific data, including photos from its system and handhelds after the archive is delivered at the end of the project.	X		

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18 ACCEPTANCE TESTING

Please fill out the table below.

Table 18-1. Acceptance Testing Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
18.1	The Supplier will submit a functional acceptance test plan to allow the City to verify the functionality defined in this specification, including integrations to City systems as specified herein.	X		Our solution complies with this requirement.
18.2	The meter system test fixture (defined previously) will be used to support functional acceptance testing. As such, the Supplier should ensure this board is populated with all devices needed to test the system fully.	X		Sensus will build and supply a demonstration board with all endpoint types and meters being deployed on your FlexNet network. These endpoints will communicate to base stations installed in your network as well as WAUCHULA ’s Head End System. The meter demonstration board will be able to be used to fully test meters types like those installed in your service area.
18.3	If special test equipment is needed to exercise a system function, the Supplier shall loan such devices to the City for the test duration.	X		We acknowledge and accept this requirement, though this was not anticipated.
18.4	Functional acceptance testing will be performed successfully before deploying field hardware.	X		Typical SOP dictates that a small representative population of test meters are deployed upon the completion of the base station infrastructure deployment. This initial step allows for the evaluation of both the network and meter’s performance and behavior, providing a demonstration prior to the commencement of mass deployment. Sensus understands the billing system integration will be completed and tested prior to meter installations in the field.

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18.5	The City intends that meters configured to their requirements, including nameplates, be tested as a part of the functional acceptance testing. The Supplier must ensure meters meeting City requirements are populated on the meter system test fixture.	X		Our solution complies with this requirement.
18.6	The Supplier will submit a final acceptance test plan to allow the City to verify the functionality defined in this specification, including integrations to City systems as specified herein, with most field meters deployed.	X		Sensus' Professional Services team manages your entire end-to-end integration requirements. We work with both utility and third- party vendor stakeholders, as needed, to identify the integration requirements, such as data flows and integration methods. Once we understand the complete solution requirements and your team agrees on the scope of the work, we begin integration work based on the agreed supplemental Statement of Work. As an integral part of the service, Sensus will perform the testing and validation of integration between the Head End System and your third-party systems. Testing will verify that the data and integration points are flowing as outlined, per technical and business requirements. Pricing for these services is included in AMI Software Integration Services provided in Table 22-1.
18.7	Final system acceptance testing (SAT) will be conducted when 95% or more field meters are deployed. The test shall confirm the system's operational readiness and resolve any outstanding issues from the functional acceptance testing.	X		Sensus acknowledges this requirement.
18.8	As the pricing section notes, system payments are governed by passing the initial and final acceptance testing. Mutually agreed-upon percentage completions govern field device and installation costs.	X		Sensus acknowledges this requirement.

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19 TRAINING

Please fill out the table below.

Table 19-1. Training Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
19.1	Please list all applicable training courses to be provided on-site, via the Internet and off-site locations. Also, list refresher training(s) and the number of trainees permitted. All training must be comprehensive enough to ensure City staff can effectively install all products offered and operate all systems and software. Topics that must be covered in the training include, but are not limited to, the following: • Meter installation. • Meter troubleshooting. • Meter configuration. • Handheld usage. • Network components. • An overview of the AMI product and head-end software. • System operations and troubleshooting, including interactions among endpoints and network devices, network devices, and the AMI head-end, as well as interaction between the AMI head-end and other system components such as MDM Lite, OMS, and customer portal. • Identification, management, and resolution of events and alarms. • Customer portal administration.	X		As a new FlexNet customer, throughout deployment and implementation, Sensus offers a stepped learning approach to gradually educate your team. The purpose of this training is to not only help WAUCHULA staff become operationally effective as quickly and efficiently as possible in running your FlexNet system. It also affords access to the core library of learning aids for expanded learning and for new employees for tomorrow. Please see Attachment L: Training Course Catalog.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	• Tyler ERP Pro system integration usage.			
19.2	Provide a typical training schedule that contains lessons, suggested attendees, and durations.	X		Please see Attachment L: Training Course Catalog.
19.3	The number of trainees allowed for any or all types of training must be clearly defined in the Proposer's responses. Provide a training plan which outlines the requirements listed above. The plan should include facilities and/or resources required.	X		There is no limit on the number of attendees in any given training. However practical considerations should be taken to ensure there is adequate instructor time to answer questions. Facility requirements are dictated by the class. That said, minimum requirements for classroom-based instruction include: • Projector or Similar Display Screen • Wi-Fi / High Speed Internet • Adequate seating for attendees • Student computers for practical instruction, in some classes
19.4	At the end of training, maintenance personnel will understand proper installation and maintenance procedures, as well as the use of the AMI head-end software system.	X		We agree and have incorporated this need in our training. Maintenance procedures are a key component to the successful long-term operation of any AMI system. Maintenance personnel who are educated on head-end operation can often avoid field visits that would have been otherwise necessary.
19.5	Describe the training materials to be provided for each course.	X		Attendees will be provided with the following documentation, which is available online and as part of our training materials. • System overview description • System flow charts (provided as part of our Solution Design and architecture) • File descriptions and record layouts • Description of program function and logic • Operating procedures • Screen layouts • Data entry procedure • Report descriptions • Descriptions of all user options and operations

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	• Descriptions of all error messages are provided in the product user manuals. • Security documentation (that is, hardening guidelines). Sensus provides hard copies to all participants attending the instructor-led training event. Materials include a Student Manual and any accompanying Job Aids.
19.6	Describe the availability of refresher training and future training for new employees.	X		Follow up training is available. This is a key area where Core & Main's local staff and/or Sensus specialists can provide added value long after the project is complete. We recognize that while initial system training is very important, new questions will arise over time as staff changes.

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20 CONTRACTUAL OBLIGATIONS AND WARRANTIES

Please fill out the table below.

Table 20-1. Contractual Obligations and Warranty Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.1	Water meter/module water ingress failures are critical problems. The Proposer should identify any projects where they have experienced water meter/module failure that resulted from water ingress. Describe the situation(s) in detail, including how the issue was resolved for each project and how the product was modified due to this issue.	X		Project: Redesign of iPERL water meter Date completed: Q3 2014 Project description: Sensus began using a potting material to better protect the meter's electronics if the unit became submerged in water. Following the redesign, failure rate for issues related to water intrusion decreased substantially. Water intrusion related failures are 0.67% of all confirmed iPERL meter failures since 2014. Project: Redesign of OMNI Register Date completed: Q4 2018 Project description: Sensus made improvements to the manufacturing process regarding treatment/preparation of the OMNI register cups prior to potting. This resulted in a significant reduction of water ingress into the register which were confirmed in engineering tests.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.2	Proposer to provide historical annualized hardware failure rates over the last 3 years for the 2S electric meter being proposed. Failure rate = (failed meters that were produced in year x)/ (total meters produced in year x). If you cannot provide the exact answer, is the rate less than 1%?	X		Residential electric meters have an expected annual failure rate of 0.5% per year. This number includes the meter itself and the FlexNet transceiver.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.3	If the electric meters use a separately manufactured communication module, Proposer to provide historical annualized hardware failure rates over the last 3 years for the communication module used in the proposed electric meters. Failure rate = (failed modules that were produced in year x)/ (total modules produced in year x). If you cannot provide the exact answer, is the rate less than 1%?	X		The 0.5% annual failure rate for residential meters includes FlexNet transceivers.

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Rqmt. #	Requirement Description	Comply YES	Comply NO	Comments / Clarifications
20.4	The Proposer will provide historical annualized hardware failure rates over the last 3 years for the proposed residential water meter modules. Failure rate = (failed modules produced in year x)/ (total modules produced in year x). If you cannot provide the exact answer, is the rate less than 1%?	X		

(A) Meter Interface Units	(B) Expected Failure rate (Failures/100 units/year)
Year 1	0.10%
Year 2	0.10%
Year 3	0.05%
Year 4	0.05%
Year 5	0.05%
Year 6	0.05%
Year 7	0.05%
Year 8	0.05%
Year 9	0.05%
Year 10	0.05%
Year 11	0.05%
Year 12	0.05%
Year 13	0.05%
Year 14	0.05%
Year 15	0.05%
Year 16	0.10%
Year 17	0.10%
Year 18	0.15%
Year 19	0.15%
Year 20	0.20%

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.5	The Proposer will provide historical annualized hardware failure rates over the last 3 years for proposed collection points and network communication equipment. Failure rate = (failed units produced in year x)/ (total units produced in year x). If you cannot provide the exact answer, is the rate less than 1%?	X		The M400B2 base station has an expected failure rate of 0.5% per year.
20.6	Supplier shall provide a 5-year warranty on electric meters beginning at completion of installation.		X	Extended warranties are available for an extra cost. Pricing information for this option is included in the pricing tables. Sensus confirms that our quoted $1.33/year/meter optional extended warranty pricing is for an extended 5-year warranty for the electric meters. Sensus is willing to mutually negotiate in/out costs if the situation applies.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.7	The Supplier shall provide a 20-year warranty on battery-powered devices such as water meter modules. Any warranty replacements under this warranty shall not involve wire splicing.	X		Our solution complies with this requirement.
20.8	The Supplier shall guarantee all system components are supported through the expected 10-year term of the managed services agreement.	X		Our solution complies with this requirement.
20.9	The Supplier shall guarantee all system components are backward compatible for up to 15 years.	X		Our solution complies with this requirement.
20.10	Proposer shall state terms and costs for optional extended warranties for each category of field-installed equipment in the supplied pricing worksheet.	X		Extended warranties are available for an extra cost. Pricing information for this option is included in the pricing tables

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Rqmt. #	Requirement Description	Comply YES	Comply NO	Comments / Clarifications
20.11	The Supplier shall be responsible for broad-based device failures exceeding 5% of any installed device category in a rolling 12-month period. The remedy shall be the complete replacement of all potentially affected devices, including field in/out costs for the affected population.		X	Device failure details are available in Attachment N: Terms of Sale and Warranties. In addition, in the unlikely event of described excessive device failures, Sensus works proactively to resolve issues as they arise with utmost attention to your needs and concerns, almost always solving problems with a commercial resolution.
20.12	Provide a detailed list of all subcontractors planned to service this implementation.	X		Concord Utility Services will be the main installation contractor for this project. Established in 2006, Concord Utility Services, a California Corporation, is a utility contracting company specializing in Automated Meter Infrastructure (AMI) and mass meter deployment in the water distribution space. Concord is headquartered in Murrieta CA and serves the national market with office locations in AZ, FL, GA, NV, NC & TX. While Concord's primary objective is to support utilities, cities, municipalities, and districts with mass deployment installation services, Concord offers additional system maintenance and upgrade services such as asset and system audits, asset mapping, conformance and standardization field work, and utility systems integrations to create operational efficiencies that make a difference – in billing, customer service, procurement, and field services. Over the past 17 years and 2.5+ million meter & endpoint installations stand a resolute team of industry experts, including Project Managers, Project Leads, Field Technicians, Operations Analyst, Fleet Manager, Safety Coordinator, HR personnel, IT & Data Managers, and Quality Auditors, who work collectively to ensure the success of each project. Supporting Concord Utility Services will be Allegiant Utility Services Inc. Allegiant Utility Services is a world class utility service organization that has been providing meter installation, meter testing, and meter sales to Municipalities and Electric Cooperatives for over 20 years.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.13	The Proposer will describe what post-contract mobilization and end-of-project demobilization efforts look like.	X		Following successful completion of meter installations and acceptance, demobilization of crews is expected to be a straightforward process. Any leftover material will be returned to the utility for shelf stock. Any rented storage or restroom facilities will be returned. Any WAUCHULA facilities utilized by installation staff will be left in a tidy presentable state. Core & Main will continue to provide post-project support on a local and in-person basis.
20.14	The Supplier will obtain any required FCC radio licenses on behalf of the City, which will be valid for 20 years. License pricing will be reflected in the base price or the monthly managed services fee.	X		Sensus owns the FCC licenses for the RF frequencies we are assigning to your FlexNet system; they will be exclusively yours to use for your FlexNet system for 20 years for your service area.
20.15	The Supplier will obtain all required sub-supplier software licenses on behalf of the City, which will be integrated with the pricing shown for their products.	X		Our solution complies with this requirement. This is a standard feature of our Head End System software SaaS managed service.
20.16	Any materials delivered to the City as a part of this project will be contracted as Freight on Board the City delivery point.	X		Our solution complies with this requirement.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.17	The City reserves the right to sample test any lot shipment received.	X		Our solution complies with this requirement.
20.18	The data must always reside inside the United States for all systems and services provided.	X		Our solution complies with this requirement.
20.19	The AMI system shall not be interfered with by any other RF signals related to commonly deployed FCC-compliant technology (i.e., home electronics and home RF devices, such as wi-fi, appliances, cellular telecommunications devices, etc.). Resolution of such interference is 100% the Supplier's responsibility throughout the anticipated 10-year term of a managed services agreement.	X		Your FlexNet system will operate on RF frequencies that are exclusively assigned for your FlexNet system. If any interference occurs, Sensus investigates the source of the interference and alerts the interferer to filter back their transmitter to comply with our primary license from the FCC.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
20.20	The Proposer shall provide a draft contract for deployment/managed services—a full unexecuted copy of a standard managed services and/or deployment contract. Please note that this requirement does not imply acceptance of any Proposer wording.	X		Please refer to Attachment C: Sample AMI Agreement.

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21 SCHEDULE

Please fill out the table below.

Table 21-1. Project Schedule Requirements

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
21.1	The Proposer will provide a project plan, including an initial schedule showing relevant milestones and the City's initial planning elements, as shown in Table 21-2 and in line with the overall timeframes presented in Exhibit A Section 2.2. The Proposer's installation subcontractor and City staffing requirements should be identified in the schedule based on resource count and skill set.	X		Inserted in attached Appendix – "Sample Project Schedule"
21.2	The project schedule will be refined with the selected Supplier as a part of contract negotiation.	X		

Table 21-2 defines Wauchula 's broad schedule plan for input to the Proposer's proposed project plan.

Table 21-2. Wauchula Conceptual Schedule Elements

Project Phase	Anticipated Activities
Kick-off meeting	• Contract deliverables review. • Overall project plan. • Communications plan. • Deployment plan.

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Project Phase	Anticipated Activities
	• Additional information requirements. • Review proposed KPI and metrics for deployment success. • Training plan. • Safety plan.
Meter system test fixture development	• System test fixture design. • System test fixture construction. • System test fixture usage in testing, training, SAT, and customer education.
System test planning	• Functional System Acceptance Test (FSAT) plan. • Final System Acceptance Test (SAT) plan.
Material logistics	• Discuss shipping and receipt plan. • Discuss the RMA process.
Customer engagement, stakeholder outreach, and education	• Town hall or public meeting materials. • Communications strategy and execution. • Collateral to address negative perceptions of AMI (e.g., privacy invasion). • The City (internal) touchpoints to ensure buy-in from across all staff that the new platform will impact. • Other change management tactics and strategies deemed appropriate.
Hardware specification and meter configuration	• Discuss configuration option decisions to be made by the City, including all meter labeling and configuration issues.
Systems integration	• Installation of meters and other hardware elements and integration of all proposed software with the City's existing platforms, with full testing of all critical functions (e.g., monthly billing) in preparation for acceptance testing. • Acceptance testing (initial and final) as described above in this RFP.
Managed services administration	• Administer all software and maintain reliable points of contact for City inquiries. • Other managed services offerings as defined herein (i.e., ad hoc services or analytics) or via the Supplier's suite of services.

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22 SUPPORT SERVICES

Please fill out the table below.

Table 22-1. Support Services

Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
22.1	The Supplier will provide adequate project support personnel for the project's duration, including a project manager (PM). The Proposer will describe the proposed organizational structure, identify individuals involved, and provide resumes and industry background information for those individuals. Proposer to describe anticipated on-site durations for their PM for various project phases. Please note that the City expects a significant PM presence on-site during FSAT. The City shall have the ability to approve the project manager and/or suggest a new project manager if required.	X		
22.2	The Supplier and/or its installation subcontractor are responsible for all files imported into the head-end system to allow the system to recognize and register meters as they are installed. Training for the City	X		This is standard procedure for our typical AMI deployments.

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Rqmt. #	Requirement Description	Comply		Comments / Clarifications
		YES	NO	
	must include managing this process before and after project completion.			
22.3	The Supplier will support the City in redesigning business processes and define required/no longer required employee roles that can be repurposed related to the AMI program. The Proposer shall describe typical levels of engagement and support in this area.	X		We strongly agree with this approach and will support this effort. Core & Main and Sensus will lead an Integration Workshop for each integration to define and agree to the details of each.
22.4	Several system integrations are required to be provided by the Supplier, as described in Exhibit A Section 14. The Proposer will include pricing for these services in its AMI proposal in the supplied pricing sheet.	X		Our solution complies with this requirement.
22.5	The Supplier will provide adequate support should emergency conditions occur during field deployment (e.g., hurricane). The Proposer shall provide details on emergency response operations to maintain the City's business continuity.	X		Proper procedures will be in place during emergency situations to prioritize the safety of everyone involved, while maintaining a continuance of work.

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WAUCHULA, FL RFP 24-05
ADVANCED METERING INFRASTRUCTURE (AMI) SYSTEM IMPLEMENTATION

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- 5.1.1 Bid Form
- 5.1.2 Bid Security
- 5.1.3 Bidder’s Qualifications
- 5.1.4 Bidder’s Statement of Disputes, Litigation, Arbitration, and Surety Completion
- 5.1.5 Drug-Free Workplace Certificate
- 5.1.6 Non-Collusion Affidavit
- 5.1.7 Public Entity Crimes Statement
- 5.1.8 Tabulation of Subcontractors and Suppliers

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BID FORM

SECTION 5.1: FORMS TO SUBMIT WITH BID

The following forms must be completed and included in the Bidder's response to this Solicitation. This list represents the forms only and does not include all information and items necessary to be responsive to the Bid Solicitation.

5.1.1 Bid Form

5.1.2 Bid Security

5.1.3 Bidder's Qualifications

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion

5.1.5 Drug-Free Workplace Certificate

5.1.6 Non-Collusion Affidavit

5.1.7 Public Entity Crimes Statement

5.1.8 Tabulation of Subcontractors and Suppliers

5.1.9 Exhibit B – Wauchula AMI RFP Technical Response Template

5.1.10 Exhibit C – Wauchula AMI RFP Pricing Worksheet

SECTION 5.2: FORMS FOR CONVENIENCE

The following forms are included for convenience in the Bid Documents. The Owner may require additional forms during the performance of the Work:

5.2.1 Certificate of Final Completion Form

5.2.2 Certification of Substantial Completion Form

5.2.3 Change Order Form

5.2.4 Contractor's Application for Payment Form

5.2.5 Field Order Form

5.2.6 Notice of Award Form

5.2.7 Notice to Proceed Form

5.2.8 Payment Bond Form

5.2.9 Performance Bond Form

5.2.10 Work Change Directive Form

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5.1.1 Bid Form

PROJECT: City of Wauchula AMI System Implementation

A. Bid Recipient

1. This Bid is submitted to:

   City of Wauchula
   Attn: City Manager
   126 South 7th Street
   Wauchula, FL 33873

2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Bid Documents to perform all Work as specified or indicated in the Bid Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bid Documents.

B. Bidder's Acknowledgements

1. The Bidder accepts all of the terms and conditions of DIVISION 1: INSTRUCTIONS TO BIDDERS, including without limitation those dealing with the disposition of the Bid Security. The Bid will remain subject to acceptance for 180 days after the Bid Opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

C. Bidder's Representations

1. In submitting this Bid, the Bidder represents that:

   a. The Bidder has received a complete set of Bid Documents and other related data identified in the Bid Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
1	July 30, 2024

   b. The Bidder has examined and carefully studied the Bid Documents, Addenda, and the other related data identified in the Bidding Documents, and provided the information to Subcontractors and Suppliers who have provided quotations to the Bidder for the Work.

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c. The Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

d. The Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

e. The Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS, and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS.

f. The Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplemental examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by the Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bid Documents to be employee by the Bidder, and safety precautions and programs incident thereto.

g. The Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bid Documents

h. The Bidder is aware of the general nature of the Work to be performed by the Owner and others at the Site that relates to the Work as indicated in the Bid Documents.

i. The Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bid Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bid Documents.

j. The Bidder has given the Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that the Bidder has discovered in the Bid Documents, and the written resolution thereof by the Engineer is acceptable to the Bidder.

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k. The Bid Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

l. Bidder certifies Bidder's authority and qualification to do business in the state where the Project is located.

m. Bidder certifies to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-made. To support the efforts, any non American-made equipment proposed must be accompanied by proof of good-faith efforts to utilize American-made equipment such as written quotes, solicitations, advertisements, etc.

D. Bidder's Certification

1. Bidder certifies that:

a. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

b. The Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

c. The Bidder has not solicited or induced any individual or entity to refrain from bidding; and

d. The Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph:

i. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

ii. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of the Owner, (b) to establish Bid Prices at artificial non-competitive levels, or (c) to deprive the Owner of the benefits of free and open competition;

iii. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Owner, a purpose of which is to establish Bid Prices at artificial, non-competitive levels; and

iv. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

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E. Basis of Bid

1. The Bidder has reviewed DIVISION 6: TECHNICAL SPECIFICATIONS; and will complete the Work in accordance with the Contract Documents for the price specified in Exhibit C – Wauchula AMI RFP Pricing Worksheet.

F. Time of Completion

1. The Bidder agrees that the Work will be completed and ready for final payment in accordance with the Contract Documents within **two years** after the issuance of the Notice to Proceed.

G. Attachments to This Bid

1. The following documents are submitted with and made a part of this Bid:

   a. DIVISION 5: FORMS – Bid Form

   d. DIVISION 5: FORMS – Bid Security

   c. DIVISION 5: FORMS – Bidder's Qualifications

   d. DIVISION 5: FORMS – Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years

   e. DIVISION 5: FORMS – Drug-Free Workplace Certificate

   f. DIVISION 5: FORMS – Non-Collusion Affidavit

   g. DIVISION 5: FORMS – Public Entity Crimes Statement

   h. DIVISION 5: FORMS – Tabulation of Subcontractors and Suppliers

   i. Exhibit B – Wauchula AMI RFP Technical Response Template

   j. Exhibit C – Wauchula AMI RFP Pricing Worksheet

H. Defined Terms

1. The terms used in this Bid with initial capital letters have the meanings stated in DIVISION 1: INSTRUCTIONS TO BIDDERS.

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City of Wauchula
Project No. RFP 24-05 AMI System Implementation

I. Bid Submittal

The Qualifications to Bid of Core & Main LP are attached hereto and incorporated by reference as though fully set forth herein.

1. This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: Core & Main LP

By: _____ (SEAL)
(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): David Bryant, District Manager

State Contract License No. CUC1225503

A Corporation

Corporation Name: _____

_____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____
(Corporate Seal)

Attest _____
(Signature of Corporate Secretary)

Date of Qualification to do business in Florida is _____/_____/_____.

State Contractor License No. _____.

A Joint Venture

Name of Joint Venture: _____

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City of Wauchula
Project No. RFP 24-05 AMI System Implementation

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____(SEAL)

By: _____
(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address 3216 Winter Lake Road, Bays 5-10
Lakeland, FL 33803

Phone No. (863) 868-8279 Fax No. _____

E-mail David.Bryant@coreandmain.com

SUBMITTED on August 26, 20 24.

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BID SECURITY

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.2 Bid Security Form

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):
Core & Main LP
3216 Winter Lake Rd Bays 5-10
Lakeland, FL 33803

SURETY (Name and Address of Principal Place of Business):
ATLANTIC SPECIALTY INSURANCE COMPANY
605 Highway 169 North, Suite 800
Plymouth, MN 55441

OWNER (Name and Address):
City of Wauchula
126 South 7th Avenue
Wauchula, FL 33873

BID
Bid Due Date: **08/27/2024**

Project (Brief Description Including Location):
Project No. RFP 24-05 AMI System Implementation

BOND
Bond Number: **N/A**

Date (Not later than Bid due date): **08/26/2024**

Penal sum **Five percent of the amount bid** (Words) **5% of amount bid** (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER	**SURETY**
Core & Main LP (Seal)	**ATLANTIC SPECIALTY INSURANCE COMPANY** (Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By:	By:
Signature and Title **Wayne McVaugh** **Attorney-in-Fact**	Signature and Title **Annmarie Breene** (Attach Power of Attorney) **Attorney-in-Fact**
Attest:	Attest:
Signature and Title **Patrick Breene** **Witness**	Signature and Title **Joanne Wagner** **Witness**

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Note: Above addresses are to be used for giving required notice.

A. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to the Owner upon default of the Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.

B. Default of Bidder shall occur upon the failure of the Bidder to deliver within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents.

C. This obligation shall be null and void if:

   i. The Owner accepts the Bidder's Bid and the Bidder delivers within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents, or

   ii. All Bids are rejected by the Owner, or

   iii. The Owner fails to issue a Notice of Award to the Bidder within the time specified in the Bid Documents (or any extension thereof agreed to in writing by the Bidder and, if applicable, consented to by Surety when required by Paragraph E hereof).

D. Payment under this Bond will be due and payable upon default by the Bidder and within 30 calendar days after receipt by the Bidder and the Surety of written notice of default from the Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

E. The Surety waives notice of any and all defenses based on or arising out of any time extension to issue the Notice of Award agreed to in writing by the Owner and the Bidder, provided that the total time for issuing the Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid Due Date without the Surety's written consent.

F. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph D above is received by the Bidder and the Surety and in no case later than one year after the Bid Due Date.

G. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

H. Notices required hereunder shall be in writing and sent to the Bidder and the Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

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I. The Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

J. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

K. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

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Applicant Name: ATLANTIC SPECIALTY INSURANCE COMPANY

NAIC No: 27154
FEIN: 133362309

Uniform Certificate of Authority Application (UCAA)
Certificate of Compliance

STATE OF FLORIDA

OFFICE OF INSURANCE REGULATION

I, KEVIN McCARTY, hereby certify that I am the* INSURANCE COMMISSIONER of the State of FLORIDA and have supervision of insurance business in said State and as such I hereby certify that **ATLANTIC SPECIALTY INSURANCE COMPANY** of NEW YORK, NY is duly organized under the laws of said State and is authorized to transact the business of D 010 FIRE,D 020 ALLIED LINES,D 040 HOMEOWNERS MULTI PERIL,D 050 COMMERCIAL MULTI PERIL,D 080 OCEAN MARINE,D 090 INLAND MARINE,D 110 MEDICAL MALPRACTICE,D 160 WORKERS COMPENSATION,D 170 OTHER LIABILITY,D 173 PREPAID LEGAL,D 192 PRIVATE PASSENGER AUTO LIABILITY,D 194 COMMERCIAL AUTOMOBILE LIABILITY,D 211 PPA PHYSICAL DAMAGE,D 212 COMMERCIAL AUTO PHYSICAL DAMAGE,D 220 AIRCRAFT,D 230 FIDELITY,D 240 SURETY,D 250 GLASS,D 260 BURGLARY AND THEFT,D 270 BOILER AND MACHINERY,D 280 CREDIT,D 300 INDUSTRIAL FIRE,D 450 ACCIDENT AND HEALTH,D 520 INDUSTRIAL EXTENDED COVERAGE,D 620 MISCELLANEOUS CASUALTY,** insurance in this State.

IN TESTIMONY WHEREOF, I have hereunto set my hand at Tallahassee, Florida on this 28th day of July A.D. 2011.



Kevin McCarty

* Insurance Commissioner, Officer or Superintendent of Insurance authorized to certify to the insurance business within the domiciliary state.

** Lines of Insurance as shown on Form 3 of UCAA

© 2003 National Association of Insurance Commissioners

February 4, 2004
Form 6

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[intact] specialty solutions

Atlantic Specialty Insurance Company

Period Ended 12/31/2023

Dollars displayed in thousands

Admitted Assets		**Liabilities and Surplus**	
Investments:		**Liabilities**	
Bonds	$ 2,666,141	Loss Reserves	$ 1,191,377
Preferred Stocks	-	Loss Adjustment Expense Reserves	401,505
Common Stocks	765,847	**Total Loss & LAE Reserves**	1,592,881
Mortgage Loans	-		
Real Estate	-	Unearned Premium Reserve	806,718
Contract Loans	-	Total Reinsurance Liabilities	45,997
Derivatives	-	Commissions, Other Expenses, and Taxes due	78,425
Cash, Cash Equivalents & Short Term Investments	194,124	Derivatives	-
Other Investments	9,571	Payable to Parent, Subs or Affiliates	-
Total Cash & Investments	3,635,684	All Other Liabilities	810,774
Premiums and Considerations Due	338,312	**Total Liabilities**	3,334,795
Reinsurance Recoverable	127,403		
Receivable from Parent, Subsidiary or Affiliates	17,691	**Capital and Surplus**	
All Other Admitted Assets	93,457	Common Capital Stock	9,001
		Preferred Capital Stock	-
Total Admitted Assets	4,212,546	Surplus Notes	-
		Unassigned Surplus	251,805
		Other Including Gross Contributed	616,946
		Capital & Surplus	877,751
		Total Liabilities and C&S	4,212,546

State of Minnesota
County of Hennepin

I, Kara Barrow, Secretary of Atlantic Specialty Insurance Company do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company, on the 31st day of December, 2023, according to the best of my information, knowledge and belief.

Secretary

Subscribed and sworn to, before me, a Notary Public of the State of Minnesota on this 19th day of March, 2024.

Notary Public

KERRI RIECHERS
Notary Public
Minnesota
My Commission Expires January 31, 2025

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intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Annmarie Breene, Babette Ward, Cathy H. Ho, Dana Donahue, Joanne C. Wagner, Kimberly G. Sherrod, Lori S. Shelton, Patricia A. Rambo, Patricia Dorsaneo, Patrick Breene, Sara Owens, Wayne G. McVaugh**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, Vice President and General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, Vice President and General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2025

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 26th day of August, 2024.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara L.B. Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

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FLORIDA DEPARTMENT OF FINANCIAL SERVICES

ANNMARIE BREENE

License Number : W955245

Non Resident Insurance License

- 0920 - NONRES GEN LINES (PROP & CAS)

Issue Date

02/27/2023

NOTICE - This non-resident license is limited to the classes of insurance reflected above and is further limited to ONLY those classes of insurance for which you are licensed in your home state.

Please Note: A licensee may only transact insurance with an active appointment by an eligible insurer or employer. If you are acting as a surplus lines agent, public adjuster, or reinsurance intermediary manager/broker, you should have an appointment recorded in your own name on file with the Department. If you are unsure of your license status you should contact the Florida Department of Financial Services immediately. This license will expire if more than 48 months elapse without an appointment for each class of insurance listed. If such expiration occurs, the individual will be required to re-qualify as a first-time applicant. If this license was obtained by passing a licensure examination offered by the Florida Department of Financial Services, the licensee is required to comply with continuing education requirements contained in 626.2815 or 648.385, Florida Statutes. A licensee may track their continuing education requirements completed or needed in their MyProfile account at https://dice.fldfs.com. To validate the accuracy of this license you may review the individual license record under "Licensee Search" on the Florida Department of Financial Services website at www.myfloridacfo.com/division/agents.

Jimmy Patronis
Chief Financial Officer
State of Florida

Bidder's Qualifications

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.3 Bidder's Qualifications

The Bidder warrants the truth and accuracy of all statements and answers herein contained.
(Include additional sheets if necessary.)

THIS QUESTIONNAIRE MUST BE COMPLETED AND SUBMITTED WITH YOUR BID.

A. COMPANY'S NAME: Core & Main LP

B. CO. PHYSICAL ADDRESS: 3216 Winter Lake Road Bays 5-10, Lakeland, FL 33803

C. TELEPHONE NUMBER: ((863) 868-8279 D. FAX: ( )

E. Bidding as an; individual:_____; a partnership: X ; a corporation:___; a joint venture:___.

F. If a partnership: list names and addresses of partners; if a corporation: list names of officers, directors, shareholders, and state of incorporation; if joint venture: list names and addresses of venturers and the same if any venturer is a corporation for each such corporation, partnership, or joint venture:
Core & Main Intermediate GP, LLC (General Partner), 1830 Craig Park Court, St. Louis, MO 63146
Core & Main Midco, LLC (Limited Partner), 1830 Craig Park Court, St. Louis, MO 63146

G. Your organization has been in business (under this firm's name) as a limited partnership for how many years? 7 years

H. Have you ever been awarded additional time to complete work awarded to you during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.
To the best of our knowledge, in the state of Florida, during the past 5 years, Core & Main has not been awarded additional time as a result of its fault or negligence.

I. Have you ever been assessed liquidated damages under a contract during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.
To the best of our knowledge, in the state of Florida, during the past 5 years, no.

J. Have you ever failed to complete work awarded to you? If so, state when, where (contact name, address, phone number) and why?
To the best of our knowledge, in the state of Florida, during the past 5 years, no.

K. Have you ever been debarred or prohibited from bidding on a governmental entity's construction project? If yes, name the entity and describe the circumstances:
To the best of our knowledge, in the state of Florida, during the past 5 years, no.

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City of Wauchula
Project No. RFP 24-05 AMI System Implementation

L. Will you subcontract any part of this Work? If so, describe which major portion(s):
Yes, installation services will be subcontracted to Bermex.

M. If any, list (with contract amount) MBE/WBE's to be utilized:
-Valerin
-WeProject

N. What equipment do you own to accomplish this Work?
N/A

O. What equipment will you purchase/rent for the Work? (specify which)
N/A

P. List the following in connection with the Surety which is providing the Bond(s):

Surety's Name: ATLANTIC SPECIALTY INSURANCE COMPANY

Surety's Address: 605 Highway 169 North, Suite 800, Plymouth, MN 55441

Name, address and phone number of Surety's resident agent for service of process in Florida:
Chief Financial Officer
200 East Gaines Street
Tallahassee, FL 32399

Phone: (___)

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BIDDER'S STATEMENT OF DISPUTES, LITIGATION, ARBITRATION, AND SURETY COMPLETION

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion – Last Three (3) Years

Project	Name and Address of Owner or Engineer	Name and Phone Number of Owner or Engineer Representative	Date of Contract	Amount	Status

To the best of its knowledge, Core & Main LP has not been involved in any pending litigation, judgments or settlements of court cases relative to providing Advanced Metering Infrastructure (AMI) Implementation Services to its customers in the state of Florida during the past three (3) years.

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DRUG-FREE WORKPLACE CERTIFICATE

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.5 Drug-Free Workplace Certificate

I, the undersigned, in accordance with Section 287.087, *Florida Statutes* hereby certify that Core & Main LP
(Print or Type Name of Firm)

- ☑ Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace named above and specifying actions that will be taken against violations of such prohibition.
- ☑ Informs employees about the dangers of drug abuse in the workplace; the firm's policy of maintaining a drug-free working environment and available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug-use violations.
- ☑ Gives each employee engaged in providing commodities or contractual services that are under bid or proposal a copy of the statement specified above.
- ☑ Notifies the employees that as a condition of working on the commodities or contractual services under bid or proposal, the employees will abode by the terms of the statement and will notify the employer of any conviction of or plea of guilty or nolo contendere to any violation of Chamber 1893 or any controlled substance law of the State of Florida or the United States for a violation occurring in the workplace, no later than 5 days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.
- ☑ Imposes a sanction on or requires the satisfactory participation in a drug-abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.
- ☑ Makes a good faith effort to continue to maintain a drug-free workplace through the implementation of the drug-free workplace program.

"As a person authorized to sign this statement, I certify that the business, firm, or corporation named above complies fully with the requirements set forth herein."

Authorized Signature — Date Signed: 8/26/24

State of: FLORIDA
County of: ORANGE
Sworn to and subscribed before me this 26 day of AUGUST, 20 24.
Personally known ✓ or Produced Identification _____
Specify Type of Identification

Signature of Notary

My Commission Expires: 2-27-26

BRENDA F. ECKROSE
Commission # HH 215403
Expires February 27, 2026

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NON-COLLUSION AFFIDAVIT

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.6 Non-Collusion Affidavit of Prime Bidder

State of FLORIDA

County of ORANGE

David Bryant (Name), being first duly sworn, deposes and says that:

1. He/She is District Manager (Title) of Core & Main LP (Company), the Bidder that has submitted the attached bid;

2. He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

3. Such Bid is genuine and is not a collusive or sham Bid;

4. Neither the said Bidder not any of his/her officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or has refrained from bidding in connection with such Contract; nor in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or if any other Bidder; not has fixed any overhead, profit or cost element of the Bid Price, or the Bid Price of any other Bidder; not has secured through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the City of Wauchula, Florida or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____
Name

David Bryant, District Manager
Title

Subscribed and sworn to before me this 26 day of AUGUST, 2024

_____
Signature

INSIDE SALES
Title

My commission expires 2-27-26

BRENDA F. ECKROSE
Commission # HH 215403
Expires February 27, 2026

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PUBLIC ENTITY CRIMES STATEMENT

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.7 Sworn Statement Pursuant to Section 287.133(3)(A), *Florida Statues*, on Public Entity Crimes

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to the City of Wauchula, Florida by

   David Bryant, District Manager
   (print individual's name and title)

   for Core & Main LP
   (print name of entity submitting sworn statement)

   whose business address is 3216 Winter Lake Road Bays 5-10, Lakeland, FL 33803

   And (if applicable) its Federal Employer Identification Number (FEIN) is 03-0550887.
   (If the entity has no FEIN, include the Social Security of the individual signing this sworn statement: _____.)

2. I understand that a "public entity crime" as defined in Section 287.133 (1)(g), *Florida Statues* means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision of any other state or of the United States and involving anti-trust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

3. I understand that "convicted" or "conviction" as defined in Section 287.133(1)(b), *Florida Statutes*, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or stated trial court of record relating to charges brought by indictment or information after July 1. 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that "affiliate" as defined in Section 287.133(1)(a), *Florida Statutes*, means:

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters in to a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

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City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5. I understand that a "person" as defined in Section 287.133 (1)(e), *Florida Statutes*, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (indicate which statement applies).

_X_ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, *FLORIDA STATUES*, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

_____
(Signature)

Sworn to and subscribed before me this 26 day of AUGUST, 20 24.

Personally known ✓

OR Produced Indentification_____

_____
(Type of Indentification)

Notary Public-State of FLORIDA

My commission expires 2-27-26

_____
(Printed, Typed or Stamped
Commissioned Name of Notary Public)

BRENDA F. ECKROSE
Commission # HH 215403
Expires February 27, 2026

Division 5: Forms
June 2024
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Public Entity Crimes
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TABULATION OF SUBCONTRACTORS AND SUPPLIERS

City of Wauchula
Project No. RFP 24-05 AMI System Implementation

5.1.8 Tabulation of Subcontractors and Suppliers

The Undersigned states that the following is a full and complete list of the proposed Subcontractors and Suppliers on this Project and the class of work to be performed by each and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	MBE/WBE STATUS	CLASS OF WORK OR MATERIAL
1.	Bermex, Inc. 4500 Courthouse Blvd Suite #150, Stow, Ohio 44224	N/A	Installation Services
2.	Valerin 4767 New Broad Street, Orlando, FL 32814	WBE	Customer Engagement
3.	WeProject 211 E. Six Forks Rd, Building C, Suite 205 Raleigh, NC 27609	WBE	Project Management
4.	Sensus a Xylem Brand Raleigh, NC 27609	N/A	Materials for Project
5.	VertexOne 1321 Upland Dr PMB 8389, Houston, TX 77043	N/A	Customer Portal Supplier
6.			
7.			
8.			

BIDDER: Core & Main LP
By: [signature]
Name: David Bryant
Title: District Manager
Date: 8/26/24

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Appendix

- Delegation of Signing Authority
- Certificate of Authority
- Addendum Acknowledgement
- CNM Exceptions Statement
- Company's www.Sunbiz.org Record
- Financials
- Certificate of Insurance
- Certificate of Limited Partnership
- Copies of Valid Licenses
- Implementation Plan & Schedule

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DELEGATION OF SIGNING AUTHORITY

Docusign Envelope ID: 2D601C17-5BA6-44FA-9231-C20BD4DC6126

DELEGATION OF AUTHORITY

I, Ryan Johnson, Regional Vice President of Core & Main LP, a Florida limited partnership (the "Company"), hereby delegate authority to David Bryant (the "Delegate"), to execute and deliver the proposal for RFP 24-05 AMI System Implementation (the "Document") to the City of Wauchula, FL, and to take or cause to be taken any and all actions in connection therewith as such individual may consider necessary or desirable, with such necessity or desirability being conclusively evidenced by the actions so taken, on behalf of the Company.

This Delegation is limited to the Document as described above.

The Delegation is personal to the Delegate. The Delegate may not further delegate the authorities granted in this Delegation.

IN WITNESS WHEREOF, I have hereunto set my hand on August 26, 2024.

CORE & MAIN LP, a Florida limited partnership

By: DocuSigned by: RYAN JOHNSON
Ryan Johnson, Regional Vice President

Confidential

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CERTIFICATE OF AUTHORITY

Core & Main LP
1830 Craig Park Court
St Louis, MO 63146

CERTIFICATE OF AUTHORITY
Chief Financial Officer

Name of Company:	Core & Main LP, a Florida limited partnership
Reference:	Customer Sales Contracts, RFPs, Bids, and Related Matters
Date:	July 29, 2019

THE UNDERSIGNED DOES HEREBY CERTIFY that I am the CEO of Core & Main LP, a Florida limited partnership ("Core & Main") and am authorized to sign on behalf of Core & Main. As CEO, I am authorized to make and deliver this certificate. I do hereby designate Mark Witkowski, Vice President and Chief Financial Officer, as my designee, and authorize him to execute and deliver, or cause to be executed and delivered, any and all bids and offers for furnishing materials and/or services, including related non-disclosure agreements, requests for qualifications, responses to requests for proposals, customer sales contracts, supply agreements, distributor agreements, purchase orders and similar agreements (the "Documents"), and to take or cause to be taken any and all actions in connection therewith as such individual may consider necessary or desirable, with such necessity or desirability being conclusively evidenced by the actions so taken by such individual. Further I hereby ratify and approve all previous actions taken by such individual with respect to the execution and delivery of such Documents in the name of and on behalf of Core & Main.

The authorization hereunder is effective as of the date hereof, and shall continue until the earlier of the undersigned's revocation of such authorization in writing, or the last date of his employment with Core & Main.

IN WITNESS WHEREOF, the undersigned has executed this instrument as of the 29 day of July, 2019.

Stephen O. LeClair, CEO

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ADDENDUM ACKNOWLEDGEMENT

Contract Bidding Documents

RFP 24-05 AMI System Implementation

ADDENDUM NO. 1

City of Wauchula
126 South 7th Avenue
Wauchula, Florida 33873

July 30, 2024

RFP No.: RFP 24-05
RFP Name: Wauchula Advanced Metering Infrastructure (AMI) System Implementation
Addendum: ADDENDUM NO. 1

This Addendum shall modify and become a part of the original solicitation document. The following clarifications, changes, additions, and/or deletions are hereby made part of the Contract Documents for RFP 24-05 AMI System Implementation and shall be included with all contract documents. All other terms and conditions remain the same.

TO ALL PROSPECTIVE PROPOSERS:
Per the originally posted schedule, the question period is now closed as of 5:00pm on July 23, 2024. The received questions along with the City responses are included in this addendum.

As a reminder, the proposal due and opening date is not changed and remains as Tuesday August 27, 2024 at 3:00pm EST per the original RFP documents.

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Prospective Bidder Questions with City Responses

Number 1: Question: Please confirm if the City is willing to accept a Water AMI only solution I.e. You are willing to separate the two bids to explore the advantages of separating these systems?

Answer: No.

Number 2: Question: May we have further clarification regarding the testing requirements called out in section 3.12.4?

Answer: RFP 24-05 section 3.12.4 contains standard City terms and conditions. Please refer to Exhibit A Wauchula AMI RFP Technical Specifications for further clarifications regarding project specific testing expectations, testing fixtures, acceptance testing and testing requirements.

Number 3: Question: We would like to confirm the 24-month installation warranty

Answer: RFP 24-05 section 3.17.3 contains standard City terms and conditions including a 24-month installation warranty to ensure installation quality. Please refer to Exhibit A Wauchula AMI RFP Technical Specifications for further clarifications regarding project warranty requirements.

Number 4: Question: May we conduct site surveys prior to bid deadline? Do we need to schedule with the city, for the site surveys?

Answer: Yes, please coordinate any desired survey scheduling with the City through the originally provided email contact included here again for reference: scamacho@cityofwauchula.com. Please note, the proposal bid deadline remains unchanged.

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This addendum acknowledgment sheet must be submitted electronically with your response by the due date and time indicated in the RFP. Failure to return this sheet may disqualify Proposer.

Dan Bryant — Proposer's Signature

8/26/24 — Date

Core & Main LP — Company Name

3216 Winter Lake Rd, Bays 5-10 Lakeland, FL 33803 — Company Address

(863) 868-8279 — Phone Number

( ) — Fax Number

Please acknowledge receipt and review of this Addendum with your submittal response.

/40126/1#60771613 v1

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CNM EXCEPTIONS STATEMENT

Qualifications of Core & Main LP
Submitted to the City of Wauchula
RFP 24-05 AMI System Implementation

Notwithstanding anything contained in any bid or contract documents to the contrary, Core & Main LP ("Core & Main") hereby qualifies its bid as follows. The bid of Core & Main and acceptance by Core & Main of any subsequent agreement is made expressly conditioned upon assent by the City of Wauchula, FL (the "Owner"), to the following additional or different terms, which shall supersede and control over the terms of any request for bid or request for proposal, any contract documents and specifications, and any prior addenda thereto:

1. Price Lock: Core & Main reserves the right to increase prices at any time in the event of a manufacturer or subcontractor price increase. Core & Main will provide evidence of the manufacturer's or subcontractor's price increase and will only increase its prices by the same percentage the manufacturer's or subcontractor's prices increase. In the event the Owner objects to the price increase, the Owner will delete the affected materials or services from the contract and neither party will have any further obligation to the other with respect to the materials or services removed from the contract except the Owner will be obligated to pay for materials or services delivered.

2. Warranty: The extent of the warranty to be provided for this project is set forth in the attached City of Wauchula Warranty.

3. Insurance: To the extent provided in its policy, Core & Main LP ("Core & Main") will only be able to provide a certificate of insurance, endorsements and coverage that are current form and meet industry standards subject to agreement by Core & Main's insurance provider, with such coverage to be in place until final completion of the project. A Memorandum of Insurance is attached to demonstrate the level of coverage carried by Core & Main. Insurance coverage provided by Core & Main will be consistent with the provisions of Core & Main's policy, notwithstanding any differing or conflicting provisions in any bid or contract documents. Insurance limits may be satisfied by a combination of General Liability and Excess/Umbrella coverage. General aggregate limits apply per location. Core & Main will not be required to provide Builder's Risk, Pollution Liability, or any coverage other than the coverage identified in its certificate of insurance. Neither Core & Main nor its subcontractors or suppliers will be required to provide copies of their respective insurance policies. Notwithstanding anything contained in any bid documents or contract documents to the contrary, by acceptance of Core & Main's bid or proposal, the Owner accepts Core & Main's certificate of insurance in full compliance with all insurance requirements, including but not limited to notice provisions, coverage, language, policy limits, policy forms, self-insured retention and deductible amounts. The parties agree that Core & Main's insurance is provided on a contributory basis, and is primary, but only to the extent of the products, services, and operations of Core & Main LP.

4. Terms and Conditions, Par. 3.5.2 – Environmental Indemnity: Delete this paragraph entirely.

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5. Terms and Conditions, Par. 3.5.3.I. – Delete this paragraph entirely.

6. Terms and Conditions, Par. 3.5.4.A. – In the first sentence, delete the phrase, "Final Acceptance of the work" and replace with, "delivery." In the last sentence, delete the phrase, "until such time that the Owner issues written notice of Final Acceptance of the work."

7. Terms and Conditions, Par. 3.15.4.B. – Delete the last sentence of this paragraph entirely.

8. Terms and Conditions, Par. 3.16.1 – Intellectual Property: Delete this section, including all subparagraphs, entirely.

9. Terms and Conditions, Par. 3.17.4 – Competent Performance of the Work: Delete this section entirely. The terms under which the Owner will be permitted to take over the work due to Contractor's default will be negotiated and agreed between the parties in the agreement resulting from this solicitation.

10. Core & Main reserves the right to negotiate contract terms and conditions mutually agreeable to both parties. If the parties are unable to reach an agreement on contract terms, the parties will have the right to discontinue negotiations for the project. In that event, neither party will have any further obligation or liability to the other arising out of this solicitation or the RFP response, Core & Main will not be in default of any obligations under the bid or contract documents and Core & Main will not forfeit its bid security.

Dated this 26th day of August, 2024.

CORE & MAIN LP



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COMPANY'S WWW.SUNBIZ.ORG RECORD

State of Florida
Department of State

I certify from the records of this office that CORE & MAIN LP is a limited partnership organized under the laws of the State of Florida, filed on November 22, 2004.

The document number of this limited partnership is A04000001840.

I further certify that said limited partnership has paid all fees due this office through December 31, 2024 and that its status is active.

I further certify that said limited partnership has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twentieth day of March, 2024

Secretary of State

Tracking Number: 1816194575CU

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

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CERTIFICATE OF LIMITED PARTNERSHIP

OF

HUGHES WATER & SEWER, LTD.

(a Florida limited partnership)

The undersigned, desiring to form a limited partnership pursuant to the laws of the State of Florida, does hereby certify as follows:

1. Name. The name of the limited partnership is as follows:

Hughes Water & Sewer, Ltd.

2. Address. The street address of the principal place of business and the mailing address for the limited partnership are as follows:

One Hughes Way
Orlando, FL 32805

3. Registered Agent. The address of the office and the name and address of the agent for service of process required to be maintained by Section 620.105, Florida Statutes, are as follows:

Corporation Service Company
1201 Hayes Street
Tallahassee, FL 32301

4. General Partner. The name and business address of the general partner of the limited partnership are as follows:

Hughes GP & Management, Inc.
One Hughes Way
Orlando, FL 32805

F04-1125

5. Termination. The latest date upon which the limited partnership is to dissolve is December 31, 2054.

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SECRETARY OF STATE
DIVISION OF CORPORATIONS

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Under penalties of perjury, the undersigned declares that it has read the foregoing and knows the contents thereof and that the facts stated therein are true and correct.

Signed this 19th day of November, 2004.

GENERAL PARTNER:

HUGHES GP & MANAGEMENT, INC.

By: _____

Name: John Z. Paré

Title: Secretary

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DIVISION OF CORPORATIONS
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ACCEPTANCE OF DESIGNATION AS REGISTERED AGENT AND AGENT FOR SERVICE OF PROCESS

The undersigned, having been designated the Agent for Service of Process, pursuant to Section 620.105, Florida Statutes, and Registered Agent, pursuant to Section 620.192, Florida Statutes, of Hughes Water & Sewer, Ltd., a limited partnership to be formed concurrently herewith under the Florida Revised Uniform Limited Partnership Act (1986), does hereby accept such designation and the obligations provided for in Sections 620.105 and 620.192, Florida Statutes.

CORPORATION SERVICE COMPANY

Dated: 11/22, 2004

By: Deborah D. Skipper

Name: Deborah D. Skipper

Title: Asst. V. Pres.

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AFFIDAVIT OF CAPITAL CONTRIBUTIONS

The undersigned, Hughes GP & Management, Inc., the sole general partner of Hughes Water & Sewer, Ltd., a Florida limited partnership, certifies:

1. The amount of capital contributions to date of the limited partners is $0.

2. The total amount of capital anticipated to be contributed by the limited partners at this time totals $1,000.

Signed this 19th day of November, 2004.

FURTHER AFFIANT SAYETH NOT.

Under the penalties of perjury, the undersigned declares that it has read the foregoing and knows the contents thereof and that the facts stated herein are true and correct.

GENERAL PARTNER:

HUGHES GP & MANAGEMENT, INC.

By: _____

Name: John Z. Paré

Title: Secretary

#2300510_v3

04 NOV 22 PM 1:59
SECRETARY OF STATE
DIVISION OF CORPORATIONS

H04000232505 3

CERTIFICATE OF AMENDMENT TO

CERTIFICATE OF LIMITED PARTNERSHIP OF

HUGHES WATER & SEWER, LTD.

Pursuant to the provisions of section 620.1202, Florida Statutes, HUGHES WATER & SEWER, LTD., a Florida limited partnership, adopts the following Certificate of Amendment to its Certificate of Limited Partnership:

FIRST: The name of the limited partnership is HUGHES WATER & SEWER, LTD.

SECOND: The limited partnership's Certificate of Limited Partnership was filed with the Florida Department of State on November 22, 2004.

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2006 OCT 25 AM 10:06

THIRD: Section 1 of the Certificate of Limited Partnership of the limited partnership is hereby amended in its entirety to read as follows:

1. Name. The name of the limited partnership is as follows:

HD Supply Waterworks, Ltd.

FOURTH: This Certificate of Amendment shall be effective at the time of its filing with the Florida Department of State.

The undersigned general partner of the limited partnership hereby executes this Certificate of Amendment to the Certificate of Limited Partnership this 24th day of October, 2006.

GENERAL PARTNER:

HUGHES GP & MANAGEMENT, INC.,
a Delaware corporation

By: _____
David Bearman, Vice President

4100468_v2

H09000209663

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09 SEP 30 AM 8:44
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

CERTIFICATE OF AMENDMENT TO CERTIFICATE OF LIMITED PARTNERSHIP OF HD Supply Waterworks, Ltd.

Pursuant to the provisions of section 620.109, Florida Statutes, this Florida limited partnership, whose certificate was filed with the Florida Department of State on November 22, 2004, adopts the following certificate of amendment to its certificate of limited partnership:

FIRST: Amendment(s): (indicate article number(s) being amended, added, or deleted)
2. Address. The street address of the principal place of business and the mailing address for the limited partnership are as follows:

3100 Cumberland Blvd., Suite 1700
Atlanta, GA 30339

4. General Partner. The name and business address of the general partner of the limited partnership are as follows:

HD Supply GP & Management, Inc.
3100 Cumberland Blvd., Suite 1700 Atlanta, GA 30339

SECOND: This certificate of amendment shall be effective at the time of its filing with the Florida Department of State.

THIRD: Signature(s)
The undersigned current general partner executed this document on September 29, 2009.

Signature(s) of new general partner(s), if applicable:

HD Supply GP & Management, Inc.
by S. Simons as attorney-in-fact

Corporate Creations International Inc.
11380 Prosperity Farms Road #221E
Palm Beach Gardens FL 33410
(561) 694-8107

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17 AUG -1 AM 10: 24

CERTIFICATE OF AMENDMENT TO CERTIFICATE OF LIMITED PARTNERSHIP OF

HD SUPPLY WATERWORKS, LTD.

Insert name currently on file with Florida Department of State

Pursuant to the provisions of section 620.1202, Florida Statutes, this Florida limited partnership or limited liability limited partnership, whose certificate was filed with the Florida Department of State on **11/22/04**, assigned Florida document number **A04000001840**, adopts the following certificate of amendment to its certificate of limited partnership.

This amendment is submitted to amend the following:

A. If amending name, enter the new name of the limited partnership or limited liability limited partnership here:

N/A

New name must be distinguishable and contain an acceptable suffix.

Acceptable Limited Partnership suffixes: Limited Partnership, Limited, L.P., LP, or Ltd.
Acceptable Limited Liability Limited Partnership suffixes: Limited Liability Limited Partnership, L.L.L.P. or LLLP.

B. If amending mailing address and/or principal office address, enter new mailing address and/or principal office address here:

New Principal Office Address: N/A
(Must be STREET address)

New Mailing Address:
(May be post office box)

C. If amending the registered agent and/or registered office address on our records, enter the name of the new registered agent and/or the new registered office address here:

Name of New Registered Agent: N/A

New Registered Office Address:

Enter Florida street address

_____, Florida _____
City *Zip Code*

New Registered Agent's Signature, if changing Registered Agent:

I hereby accept the appointment as registered agent and agree to act in this capacity. I further agree to comply with the provisions of all statutes relative to the proper and complete performance of my duties, and I am familiar with and accept the obligations of my position as registered agent.

If Changing Registered Agent, Signature of New Registered Agent

D. If amending the general partner(s), enter the name and business address of each general partner being added or removed from our records:

Title	Name	Address	Type of Action
GP	HD Supply Waterworks Group, LLC	3100 Cumberland Blvd. Suite 1700 Atlanta, Georgia 30339	■ Add ❑ Remove

E. If the limited partnership or limited liability limited partnership is amending its "limited liability limited partnership" status, enter change here:

- ❑ **This Limited Partnership hereby elects to be a "Limited Liability Limited Partnership."**
- ❑ **This Limited Partnership hereby removes its "Limited Liability Limited Partnership" status.**

(NOTE: If adding or removing" limited liability limited partnership" status, all general partners must sign this amendment.

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DIVISION OF CORPORATIONS
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F. If amending any other information, enter change(s) here: *(Attach additional sheets, if necessary.)*

N/A

Effective date, if other than the date of filing: August 1, 2017

(Effective date cannot be prior to nor more than 90 days after the date this document is filed by the Florida Department of State.)

Note: If the date inserted in this block does not meet the applicable statutory filing requirements, this date will not be listed as the document's effective date on the Department of State's records.

Signature(s) of a general partner or all general partners*:

(*NOTE: Only one current general partner is required to sign this document unless the limited partnership is adding or removing a "limited liability limited partnership" election statement. Chapter 620, F.S., requires all general partners to sign when adding or removing a "limited liability limited partnership" election statement.)

CD&R Plumb Buyer, LLC
Current General Partner

By: _____

Name: Theresa A. Gore

Title: Vice President and Secretary

Signature(s) of all new or dissociating general partner(s), if any:

HD Supply Waterworks Group, LLC
New General Partner

By: _____

Name: Theresa A. Gore

Title: Vice President and Secretary

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17 AUG -1 AM 10:24
SECRETARY OF STATE
DIVISION OF CORPORATIONS

Filing Fee:	$52.50
Certified Copy (optional):	$52.50
Certificate of Status (optional):	$8.75

State of Florida

Department of State

I certify the attached is a true and correct copy of the Certificate of Amendment, filed on August 29, 2017, for HD SUPPLY WATERWORKS, LTD. which changed its name to CORE & MAIN LP, a Florida limited partnership or limited liability limited partnership, as shown by the records of this office.

I further certify the document was electronically received under FAX audit number H17000232454. This certificate is issued in accordance with section 15.16, Florida Statutes, and authenticated by the code noted below.

The document number of this limited partnership is A04000001840.

Authentication Code: 817A00017874-083017-A04000001840-1/1

Given under my hand and the
Great Seal of the State of Florida,
at Tallahassee, the Capital, this the
Thirtieth day of August, 2017

Ken Detzner
Secretary of State

August 30, 2017

FLORIDA DEPARTMENT OF STATE
Division of Corporations

HOLLAND & KNIGHT

,

Re: Document Number A04000001840

The Certificate of Amendment for HD SUPPLY WATERWORKS, LTD. which changed its name to CORE & MAIN LP, a Florida limited partnership or limited liability limited partnership, was filed on August 29, 2017.

The certification you requested is enclosed. To be official, the certification for a certified copy must be attached to the original document that was electronically submitted and filed under FAX audit number H17000232454.

Should you have any questions concerning this matter, please telephone (850) 245-6051, the Registration Section.

Michelle Milligan
Senior Section Administrator
Division of Corporations

Letter Number: 817A00017874

CERTIFICATE OF AMENDMENT TO CERTIFICATE OF LIMITED PARTNERSHIP OF

HD SUPPLY WATERWORKS, LTD.

Insert name currently on file with Florida Department of State

Pursuant to the provisions of section 620.1202, Florida Statutes, this Florida limited partnership or limited liability limited partnership, whose certificate was filed with the Florida Department of State on 11/22/2004, assigned Florida document number A04000001840, adopts the following certificate of amendment to its certificate of limited partnership.

This amendment is submitted to amend the following:

A. If amending name, enter the new name of the limited partnership or limited liability limited partnership here:

CORE & MAIN LP

New name must be distinguishable and contain an acceptable suffix.

Acceptable Limited Partnership suffixes: Limited Partnership, Limited, L.P., LP, or Ltd.
Acceptable Limited Liability Limited Partnership suffixes: Limited Liability Limited Partnership, L.L.L.P. or LLLP.

B. If amending mailing address and/or principal office address, enter new mailing address and/or principal office address here:

New Principal Office Address: N/A
(Must be STREET address)

New Mailing Address:
(May be post office box)

C. If amending the registered agent and/or registered office address on our records, enter the name of the new registered agent and/or the new registered office address here:

Name of New Registered Agent: N/A

New Registered Office Address:

Enter Florida street address

, Florida
City *Zip Code*

New Registered Agent's Signature, if changing Registered Agent:

I hereby accept the appointment as registered agent and agree to act in this capacity. I further agree to comply with the provisions of all statutes relative to the proper and complete performance of my duties, and I am familiar with and accept the obligations of my position as registered agent.

If Changing Registered Agent, Signature of New Registered Agent

D. If amending the general partner(s), enter the name and business address of each general partner being added or removed from our records:

Title	Name	Address	Type of Action
N/A			❑ Add ❑ Remove
			❑ Add ❑ Remove
			❑ Add ❑ Remove
			❑ Add ❑ Remove
			❑ Add ❑ Remove
			❑ Add ❑ Remove

E. If the limited partnership or limited liability limited partnership is amending its "limited liability limited partnership" status, enter change here:

❑ **This Limited Partnership hereby elects to be a "Limited Liability Limited Partnership."**

❑ **This Limited Partnership hereby removes its "Limited Liability Limited Partnership" status.**

(NOTE: If adding or removing" limited liability limited partnership" status, all general partners must sign this amendment.)

F. If amending any other information, enter change(s) here: *(Attach additional sheets, if necessary.)*

Effective date, if other than the date of filing:

(Effective date cannot be prior to nor more than 90 days after the date this document is filed by the Florida Department of State.)

Note: If the date inserted in this block does not meet the applicable statutory filing requirements, this date will not be listed as the document's effective date on the Department of State's records.

Signature(s) of a general partner or all general partners*:

(*NOTE: Only one current general partner is required to sign this document unless the limited partnership is adding or removing a "limited liability limited partnership" election statement. Chapter 620, F.S., requires all general partners to sign when adding or removing a "limited liability limited partnership" election statement.)

CORE & MAIN GP, LLC

By:

Name: Theresa A. Gore, CD&R WW Holdings, LP

Title: Manager

CD&R PLUMB BUYER, LLC

By:

Name: Theresa A. Gore, CD&R WW Holdings, LP

Title: Manager

Signature(s) of all new or dissociating general partner(s), if any:

Filing Fee:	**$52.50**
Certified Copy (optional):	**$52.50**
Certificate of Status (optional):	**$8.75**

A04000001840

Florida Department of State
Division of Corporations
Electronic Filing Cover Sheet

Note: Please print this page and use it as a cover sheet. Type the fax audit number (shown below) on the top and bottom of all pages of the document.

(((H19000233340 3)))



H19000233403ABCZ

Note: DO NOT hit the REFRESH/RELOAD button on your browser from this page. Doing so will generate another cover sheet.

To:
Division of Corporations
Fax Number : (850)617-6383

From:
Account Name : HOLLAND & KNIGHT
Account Number : 075350000340
Phone : (407)425-8500
Fax Number : (407)244-5288

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2019 AUG -5 P 12:18
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

Enter the email address for this business entity to be used for future annual report mailings. Enter only one email address please.

Email Address:_____

LP/LLLP AMENDMENT/RESTATEMENT/CORRECTION

CORE & MAIN LP

Certificate of Status	0
Certified Copy	1
Page Count	02
Estimated Charge	$105.00

LTS 8-6-19

Electronic Filing Menu Corporate Filing Menu Help

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2019 AUG -5 P 6 12

SECRETARY OF STATE
TALLAHASSEE, FLORIDA

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF LIMITED PARTNERSHIP
OF
CORE & MAIN LP

Pursuant to the provisions of section 620.1202, Florida Statutes, this Florida limited partnership, whose certificate was filed with the Florida Department of State on November 22, 2004, adopts the following Certificate of Amendment to its Certificate of Limited Partnership.

FIRST: The name of the limited partnership as identified in the records of the Florida Department of State is CORE & MAIN LP. The limited partnership's Florida document number is: A04000001840 .

SECOND: Article 4 of the Certificate of Limited Partnership of Core & Main LP (the Company) is hereby amended to reflect the admission of a new General Partner Core & Main Intermediate GP, LLC and the dissociation of the previous General Partner Core & Main Midco, LLC to read:

"Article 4 – General Partners

The name and street address of the General Partner of the Company is:

Core & Main Intermediate GP, LLC
1830 Craig Park Court
St. Louis, Missouri 63146

THIRD: This Certificate of Amendment shall be effective as of the "date and time" of its filing with the Florida Department of State.

[Signature Page to follow]

Signatures of current general partner:

CORE & MAIN MIDCO, LLC, a Delaware
limited liability company

By its sole member, Core & Main Holdings, LP
By its general partner, CD&R Plumb Buyer, LLC

By: _____
Name: Theresa A. Gore
Title: Vice President and Secretary

By its general partner, Core & Main GP, LLC

By: _____
Name: Theresa A. Gore
Title: Vice President and Secretary

Signature of new general partner:

CORE & MAIN INTERMEDIATE GP, LLC,
a Delaware limited liability company

By its sole member, Core & Main Midco, LLC
By its sole member, Core & Main Holdings, LP
By its general partner, CD&R Plumb Buyer, LLC

By: _____
Name: Theresa A. Gore
Title: Vice President and Secretary

By its general partner, Core & Main GP, LLC

By: _____
Name: Theresa A. Gore
Title: Vice President and Secretary

Division of Corporations

A04000001840

Florida Department of State
Division of Corporations
Electronic Filing Cover Sheet

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H20000103051 3ABCM

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To:
Division of Corporations
Fax Number : (850)617-6380

From:
Account Name : HOLLAND & KNIGHT
Account Number : 075350000340
Phone : (407)425-8500
Fax Number : (407)244-5288

Enter the email address for this business entity to be used for future annual report mailings. Enter only one email address please.

Email Address: _____

MERGER OR SHARE EXCHANGE
Core & Main LP

Certificate of Status	0
Certified Copy	1
Page Count	03
Estimated Charge	$86.25

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2020 APR -7 AM 10:27
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

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LTS 4-7-2020

1103

CERTIFICATE OF INSURANCE

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 07/31/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Willis Towers Watson Certificate Center
Willis Towers Watson Northeast, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	PHONE (A/C, No, Ext): 1-877-945-7378 FAX (A/C, No): 1-888-467-2378 E-MAIL ADDRESS: certificates@willis.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : ACE American Insurance Company	22667
INSURER B : Willis Submission Carrier	GENRC
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Core & Main LP 1830 Craig Park Court Saint Louis, MO 63146

COVERAGES **CERTIFICATE NUMBER:** W34384132 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X SIR Each Occurrence: $500,000 GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:			XSL G48900161	08/01/2024	08/01/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 500,000 $ 500,000 $ 15,000 $ 500,000 $ 1,500,000 $ 1,500,000
B	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			SEE ATTACHED	08/01/2024	08/01/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 2,000,000 $ $ $
	UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: No If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		SEE ATTACHED	08/01/2024	08/01/2025	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	Additional Lines of Coverage			SEE ATTACHED	08/01/2024	08/01/2025		

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION
Evidence Only	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03) The ACORD name and logo are registered marks of ACORD

SR ID: 26249902 BATCH: 3563233

ADDITIONAL COVERAGE SCHEDULE

NAMED INSURED: Core & Main LP

AUTOMOBILE LIABILITY
Policy Effective & Expiration Dates: See Page 1
Limits: See Page 1

POLICY NUMBER	STATE	INSURER(S) AFFORDING COVERAGE
ISA H10823766	All Other States	ACE American Insurance Company

WORKERS COMPENSATION & EMPLOYERS LIABILITY
Policy Effective & Expiration Dates: See Page 1
Limit: See Page 1

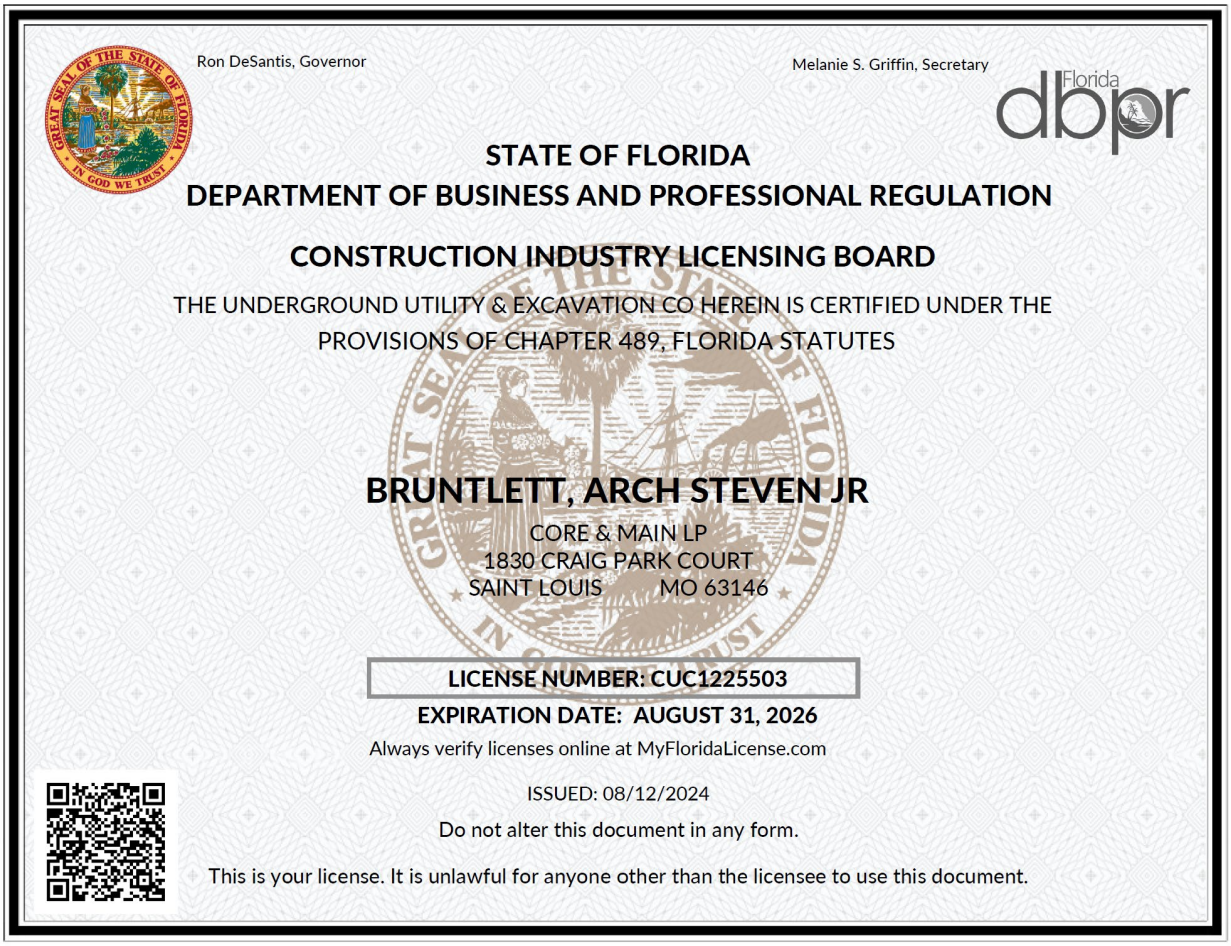
POLICY NUMBER	STATE	INSURER(S) AFFORDING COVERAGE
WLR C55521098	All Other States	ACE American Insurance Company
SCF C55521153	Wisconsin	ACE Fire Underwriters Insurance Company

EXCESS LIABILITY
Policy Effective & Expiration Dates: 08/01/2024-08/01/2025

POLICY NUMBER	TYPE OF INSURANCE	LIMITS	INSURER(S) AFFORDING COVERAGE
140001151	Excess Automobile Liability	$3M xs $2M	QBE Specialty Insurance Company
MKLM6MM50000091	Excess General Liability	$5M xs Primary GL	Markel American Insurance Company

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE UNDERGROUND UTILITY & EXCAVATION CO HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

BRUNTLETT, ARCH STEVEN JR

CORE & MAIN LP
1830 CRAIG PARK COURT
SAINT LOUIS MO 63146

LICENSE NUMBER: CUC1225503
EXPIRATION DATE: AUGUST 31, 2026

Always verify licenses online at MyFloridaLicense.com

ISSUED: 08/12/2024

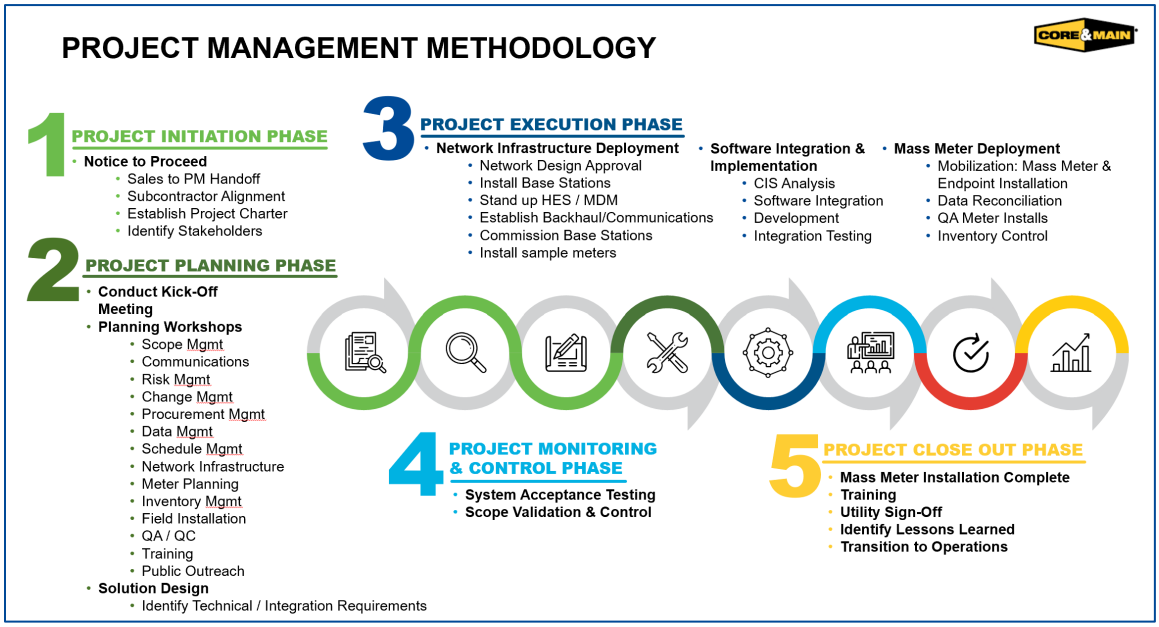
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Implementation Plan & Schedule

The CORE+ Team utilizes a structured methodology with proven processes and procedures in planning, safety, quality, deployment, and communication to successfully implement AMI systems. This foundation enables Core & Main's experienced and dedicated team to deliver projects on time, within budget, and with industry-leading customer satisfaction.



1. PROJECT INITIATION PHASE

Notice to Proceed

1. Sales to Project Management Handoff
2. Subcontractor Alignment
3. Deliver Project Charter
4. Identify Stakeholders
5. Schedule Project Kick-off Meeting with Customer

2. PROJECT PLANNING PHASE

Conduct Project Kick-Off Meeting

1. Scope Management Workshop
    a. Review project expectations
    b. Project contacts identified
    c. Work Breakdown Structure (WBS) / Gantt Chart Created
        i. Original Project Baseline Created
        ii. Milestones Identified
        iii. Critical path(s) Identified

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2. Discuss project processes (RTU process, installation data file, installed/adjusted box height, etc.)
    a. Discuss/confirm RMA and salvage process
    b. Discuss meter installation schedule
    c. Review meter delivery process
    d. Discuss creation of and implementation of daily data file transfer (subcontractor and billing)
    e. Discuss access to installer's portal (demo)
    f. Utility to provide CIS contact
        i. Work with manufacturer to develop import file and billing export file
        ii. Import file pulls data from CIS system into analytics software
        iii. Billing export file pulls reads from MDM and uploads into CIS system
    g. Field installation discussion
    h. Meter installation contractor discussion
        i. Contractor to identify field manager to coordinate daily activities
    i. Utility and Core & Main to designate the installation information to collect
        i. Old meter ID number
        ii. Old meter read
        iii. New meter ID number
        iv. New meter size
        v. New transmitter number
        vi. GPS coordinates
    j. How will installation information be entered into CIS system
        i. Manual or electronic
    k. Utility to provide CNM with billing file containing customer information
    l. Location for storing meters
    m. Plan for disposal of old meters
    n. Process for signing out material to subcontractor
    o. Process for existing conditions (examples below)
        i. Water
            1. Leaks
            2. Old valves
            3. Damaged pits
            4. Height for meter box placement and adjustments
    p. Discuss method for handling non-compliant residents
    q. RTU process (Examples below)
        i. Unable to Locate
        ii. Wrong Information
        iii. Customer Refusals
        iv. Existing Leak
        v. Water Plumbing Conditions
    r. Acceptable hours to work
        i. Start and end time
        ii. Weekends

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iii. Holidays

3. Manufacturer Training Needs
    a. Onsite training
    b. Utility to provide name, email address, and phone number of those needing access to the dashboard
4. Develop refined project schedule

Planning Workshops

1. Communications Management Workshop
    a. Communications Plan
        i. Project Stakeholders Identified
        ii. Preferred Methods of Contact Identified
        iii. Stakeholders Interviewed on Desired Contact Scope
    b. Status Meetings Identified
    c. Field Resources Identified
    d. Identify Vendors
        i. Local Emergency Clinics
        ii. Electrical
        iii. Minor Plumbing
        iv. Major Plumbing
        v. Restoration - Dirt
        vi. Restoration - Concrete/ Asphalt
    e. Project Dashboard
    f. Communication Groups (CNM Specific)
    g. Communication Groups (Project Team Specific)
    h. Outside Communication Procedure
    i. Project Dashboard
    j. Local Branch Communications/ Reporting Defined
        i. Monthly Report Process Communicated
        ii. Cost Tracking Process Communicated
2. Risk Management Workshop
    a. Client Tolerance to Risks
    b. Contractor Tolerance to Risks
    c. Plans for Risks Encountered Identified
        i. Risk Identification
        ii. Risk Evaluation
        iii. Risk Prioritization
        iv. Risk Log Created
3. Change Management Workshop
    a. Organizational Change Requirements Defined
    b. Create Change Log
    c. Discuss Change Order Process
4. Procurement Management Workshop
    a. Installer Handheld Equipment Ordered
        i. Install software (create config files/ import files, alarms)

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   ii. Send copy of config/network files to branch
   iii. Handhelds Properly Set-up
b. AMI Equipment Ordered Based on Site SOWs
c. Invoicing and Reporting Requirements
   i. Monthly Report Process Defined
   ii. Cost Tracking Process Identified
   iii. Local Branch
   iv. Contractors

5. Data Management Workshop
   a. Data Flow from Client to Installer
      i. Work Order Integration
      ii. Integration and Testing Background
      iii. Work Order Types
      iv. Data Format and Content
      v. Special Account Identification
      vi. File Transfer Details
      vii. Interface Testing
   b. Data Flow from Installer to Client Billing System
      i. Work Order Integration
   c. Billing Integration
      i. Software and Testing Background
      ii. Billing Read Request
      iii. Billing Read Response
      iv. Software Testing
6. Schedule Management Workshop
   a. Area Route Planning
   b. Installation Production Schedule
   c. Black Out Schedule
   d. Appointment Scheduling
   e. Installation Standard Operating Procedures
   f. Special Installation Procedures
   g. Assist and RTU Process
7. Network Infrastructure Workshop
   a. AMI Scope Defined (high level)
   b. Licensing
   c. Permitting
   d. Electrical
8. Meter Planning Workshop
   a. Water
      i. Meter Types
      ii. Compound
      iii. Turbin
      iv. Fire
      v. Residential

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vi. Intermediate
vii. Retrofit
b. Meter Configurations
i. Number of Digits
ii. Smart Alarm Parameters
9. Inventory Management Workshop
a. Meters
b. Endpoints
c. Misc. Materials
d. Warranty
e. RMA
f. Scrap/ Recycling
g. Inventory at Conclusion of Project
10. Field Installation Management Workshop
a. Installation Processes
i. RTU Process
1. Customer Refusal
2. Acknowledgement Form
3. Letter from Client
4. Customer-side Leak
5. Ground Wires
6. Client-side Leak
7. Unable to Locate
8. Poor Plumbing Criteria Process
9. Out of Scope Plumbing Conditions
ii. Field Areas of Consequence / Priority
1. Private Properties
2. Specific-Need Customers
3. C&I Customers
4. Restricted Areas
iii. Images
iv. QA / QC
v. Pilot (POC) Planning
vi. Technician / Customer Interactions
vii. Signage
1. Door Hangers
2. Vehicle Identification
3. Badges
viii. Service Line / LCRR Audit Requirements (if required) (Customer/ Client)
ix. Post-Install Requirements
1. Additional Work
2. Approval Process
3. Crawl Space
4. Confined Space

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5. Additional Personnel
6. Traffic Control
7. After Hours
8. Replace Valve
9. Minor Plumbing
10. Major Plumbing
11. Minor Carpentry
12. Major Carpentry
13. Pit Lid (Remove & Replace)
14. Pit Lid (Drill)
15. Dewatering
16. Debris removal
17. Replace Box
18. Re-Pipe
19. Replace Meter Box
20. Raise / Adjust Meter Box
21. Line Flushing
22. Site Condition Standards

b. Handheld Equipment Data Requirements Defined

11. QA / QC Management Workshop
    a. Field Audit Requirements
    b. Office Audit Requirements
    c. Performance Improvement Requirements
    d. Reporting Requirements
    e. Customer Acceptance Defined
    f. Sign-off Process
12. Training Management Workshop
    a. Schedule Training
        i. Meter Installation Training
        ii. Endpoint Installation Training
        iii. Activation Process Training
        iv. Troubleshooting Process Training
        v. Head End System Training
        vi. MDM Training
    b. Software Training
        i. Scheduled by CNM if in-scope
        ii. Coordinate with existing software vendors (if applicable)
13. Public Outreach Management Workshop
    a. Public Relations Strategy Review
    b. Mailers
    c. Tags
    d. PSA
    e. Call Center Plan
    f. Social Media

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g. Website

Solution Design

1. Project Design Phase
    a. Obtain area site map from utility, along with service addresses-Based off prop study
        i. Inside/Outside set?
    b. Evaluate potential tower sites
        i. Water towers
        ii. Communication towers
        iii. Buildings, poles, etc.
    c. Items to consider
        i. Is the tower of sufficient height
        ii. Are there appropriate mounting points for necessary equipment
        iii. Is there a clear path for conduit and cabling
        iv. Is there a suitable location for a data collector
        v. How will power be supplied to the data collector
2. Who is responsible for getting power to the site
        i. Is there access to suitable grounding
        ii. Who owns the land-access (gates locked)
        iii. Power lines involved – is power available

Identify Technical/Integration requirements

1. CIS Analysis
2. Software Integration
3. Development
4. Integration Testing

3. PROJECT EXECUTION PHASE

Direct and Manage Project Work (Scope and Schedule Management Plans)

1. Acquire / Develop / Manage Team (Resource Management Plan)
2. Large Meter Surveys Conducted per Plan
3. Residential Meter Surveys Conducted per Plan
4. Pilot (POC) Installs Conducted per Plan
5. Residential Meter Installations Conducted per Plan
6. Intermediate Meter Installations Conducted per Plan
7. Large Meter Installations Conducted per Plan
8. Retrofits Conducted per Plan
9. Manage Project Knowledge (Communications Plan)
10. Manage Quality (Quality Management Plan)
11. Implement Risk responses (Risk Management Plan)
12. Manage Stakeholder Engagement
13. Manage Inventory (Procurement Management Plan)

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Network Infrastructure Deployment

1. Coordinate network infrastructure installation
    a. Selected contractor(s) approved
        i. Licensed Electrician (if needed)
        ii. Additional Work Requirements (as needed)
    b. Selected contractor(s) setup as Vendor (if needed)
    c. Permit and Easement Requirements (if needed)
    d. Coordinate site survey with CNM, Utility, and tower contractor
    e. Verify structure condition for antenna mounting
    f. Confirm antenna height
        i. Antenna locations and positions
    g. Confirm power requirements and availability
    h. Verify base station placement and outdoor/indoor conditions of location
    i. Provide preconstruction and post construction photographs and as-built drawings
    j. Confirm selection of backhaul with Utility and necessary equipment (modem, cellular, fiber, ethernet, etc.)
    k. Verify installation compliance with Utility and any government regulations
2. Verify base station installation
    a. Installed in designated location with proper housing
    b. Properly connected to power
    c. Verify antennas and coaxial cables have been installed in appropriate locations
    d. Perform initial base station configuration
    e. Network approval from manufacturer
    f. Arrange certification and commissioning of infrastructure
    g. Deliver certification notice upon completion

Software Integration & Implementation

1. CIS Data Analysis
    a. Mass Meter Inventory Upload
    b. Mass Meter Exchange
    c. HES Data Sync
    d. Integration Fee considerations
2. Third-Party Software Implementation Requirements
    a. Timeframe
    b. Milestones
    c. Integration considerations
    d. Examples: CIS, Customer Portal, GIS, SCADA, WOMS, etc.
3. Software Integration
    a. HES <> MDM
    b. HES <> CIS
    c. HES <> OMS
    d. MDM <> CIS
    e. MDM <> GIS
    f. MDM <> Customer Portal

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   g. CIS <> WOMS
4. Integration Testing

Mass Meter Deployment

1. Mobilization: Mass Meter & Endpoint Installation
   a. Provide endpoint installation training
      i. Subcontractor must sign document confirming acceptance of manufacturer's recommended installation instructions
   b. Handheld programming device training for utility and installer
   c. Verification of endpoint activation
   d. Appropriate photos captured
   e. Troubleshooting endpoints that are not communicating
   f. Validate quality of installation crews
      i. QA Meter Installs
      ii. Perform scheduled and random field inspections
   g. Monitor deployment process
      i. Train utility personnel to monitor deployment process
      ii. Run system reports to identify installation issues
   h. Execute returned material process
2. Data Reconciliation
3. Inventory Control

4. PROJECT MONITORING & CONTROL PHASE

System Acceptance Testing

1. Conduct Acceptance Testing
   a. Base Stations SAT
   b. Water SAT
   c. MDM SAT
2. Evaluate system performance
   a. Confirm all hardware is installed and communicating (ongoing)
   b. Confirm billing process is accurate (ongoing)
3. Perform system cleanup
   c. Resolve unresponsive endpoints

Scope Validation & Control

1. Monitor / Control Project Work
2. Control Scope (Scope management Plan)
3. Control Schedule (Schedule Management Plan)
4. Control Costs
5. Control Quality (Quality Management Plan)
6. Control Resources (Resource Management Plan)
7. Monitor Communications (Communications Management Plan)
8. Monitor Risks (Risk Management Plan)
9. Control Procurements (Procurement Management Plan)
10. Monitor Stakeholder Engagement

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11. Monitor Inventory Levels (to include projected remaining inventory at project conclusion)
12. Report Inventory Levels (to include projected remaining inventory at project conclusion)

5. PROJECT CLOSEOUT PHASE

Mass Meter Installation Complete

Training

1. Conduct HES Training
2. Conduct MDM Training
3. Conduct Customer Portal Training
4. Conduct Meter Installation Training
5. Conduct Meter Endpoint Installation Training
6. Conduct Meter Activation Process Training
7. Conduct Meter Troubleshooting Process Training

Perform closeout procedures

1. Document closeout process for final review
2. Hold closeout meeting with subcontractors to formalize project completion
    a. Subcontractor Invoice closeout
3. Schedule closeout meeting with customer to formalize project completion

Utility Sign-Off

1. Complete RTU Transfers to Client
2. Return Remaining Inventory to Client
3. Close Procurements
4. Lessons-Learned Meeting
5. Lessons-Learned Documented
6. Archive Documentation
7. Final Invoicing
8. Survey Client

Transition to Operations

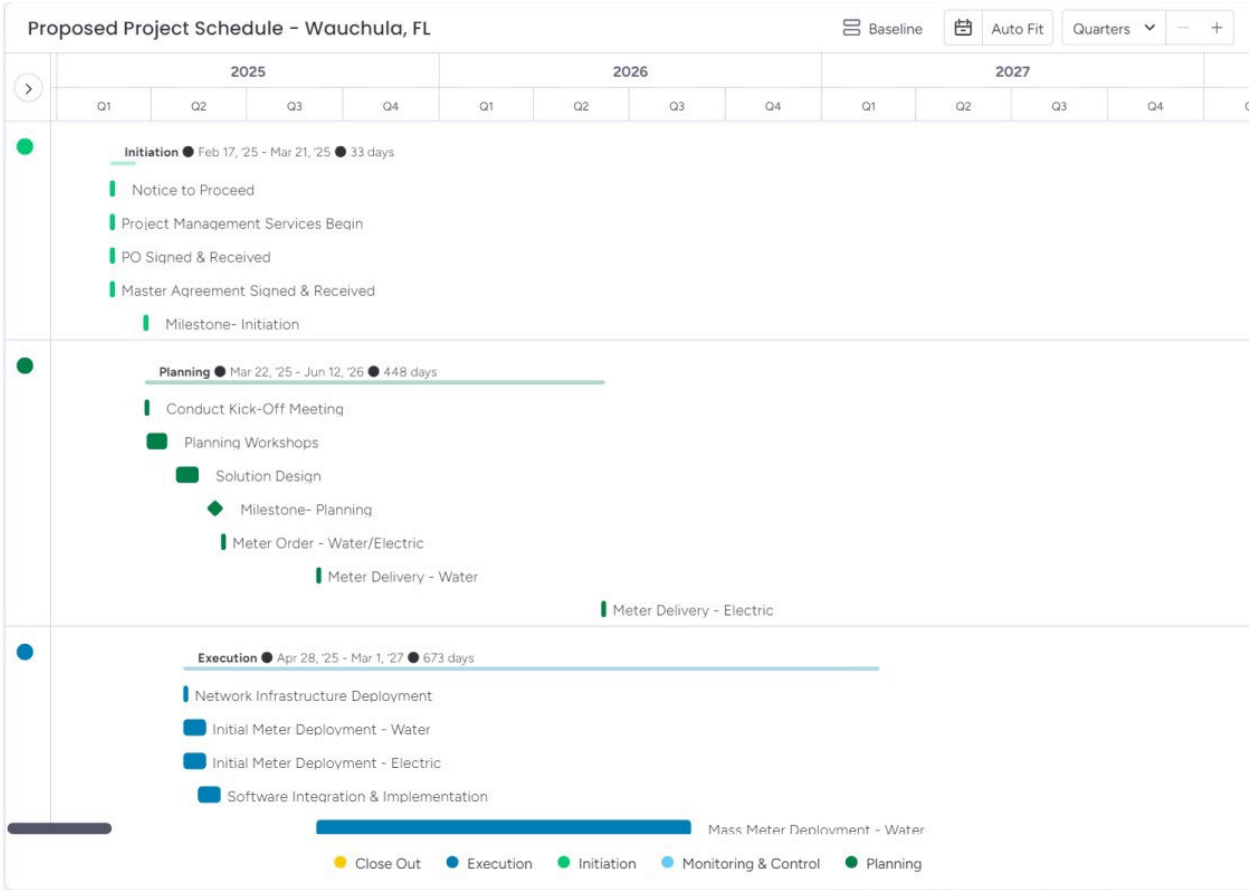
The CORE+ Team utilizes a structured methodology with proven processes and procedures in planning, safety, quality, deployment, and communication to successfully implement AMI systems. This foundation enables Core & Main's experienced and dedicated team to deliver projects on time, within budget, and with industry-leading customer satisfaction.

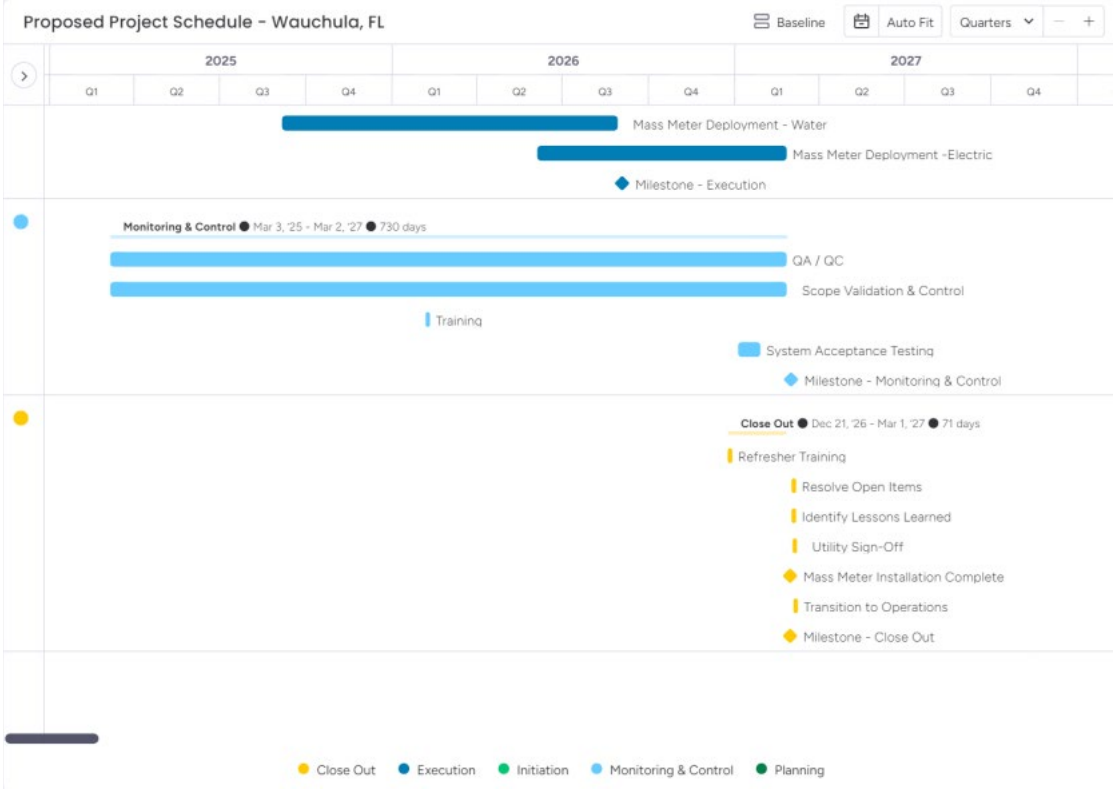
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SAMPLE PROJECT SCHEDULE

Please find Core & Main's Sample Project Management plan outlined below with preliminary dates.

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Attachments

- Attachment A: Submittals and Product Data Sheets
- Attachment B: Propagation Study and AMI Network Design
- Attachment C: Sample AMI Agreements
- Attachment D: CyberSecurity Risk Mitigitation Controls Document
- Attachment E: Sensus Meter Events and Alarms
- Attachment F: Water SmartPoint Compatibility Guide
- Attachment G: FlexNet Distribution Automation Solution
- Attachment H: Home Area Network Functionality
- Attachment I: User Interface Screenshots
- Attachment J: Visio System Diagram
- Attachment K: Supplemental Electric Information
- Attachment L: Training Course Catalog
- Attachment M: Sensus M400B2 User Guide
- Attachment N: Terms of Sale and Warranties
- Attachment O: System Text Fixture User Guide
- Attachment P: Bermex Attachments
- Attachment Q: Roadmap
- Attachment R: Base Station Installation and Commissioning Guide
- Attachment S: Meter Compatibility Guide

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ATTACHMENT A: SUBMITTALS AND PRODUCT DATA SHEETS

MECHANICAL MEASUREMENT WATER METERS

SRII Meter

xylem
Let's Solve Water

DATA SHEET
WDS-10032-04



SR II® Water Meter

Positive Displacement Water Meter with Sensus® Electronic Register+™

The Sensus SR II® is for measurement of potable and reclaimed water flow usage in residential services.

FEATURES

- 5/8", 5/8" x 3/4", 3/4", and 1"Sizes
- Sensus® Electronic Register+™ advanced electronic register
- Hydrodynamically balanced piston design
- Compatible with current Sensus AMI/ AMR systems

BENEFITS

- Enable more cost-effective, accurate meter readings
- Deliver a wide range of flows
- Provide lasting measurement accuracy for years of dependable service
- Integrate seamlessly with the FlexNet SmartPoint® module
- Tamper resistant
- Improve customer service
- Environmental and public health conscience

Operation

Water flows through the meter's strainer and into the measuring chamber where it drives the piston. The hydrodynamically balanced piston oscillates around a central hub, guided by the division plate. A drive magnet transmits the motion of the piston to an electronic sensor located within the register. The Electronic Register+ calculates the rotations into volume totalization units displayed on the register LCD.

Construction

SR II meters consist of three basic components: maincase, measuring chamber and sealed register. Maincases are made of NFS approved brass with externally-threaded spuds. Registers are housed in a bonnet of synthetic polymer. Measuring chambers are Rocksyn®, a corrosion-resistant, tailored thermoplastic material formulated for long-term performance and especially suitable for aggressive water conditions. Maincase bottom plates are available in brass or, if frost protection is desired, cast iron or synthetic polymer.

Sensus Electronic Register+

The Sensus® Electronic Register+™ is an advanced electronic register with 120 days of hourly data logging with 30-day data pull intervals available. It provides greater reliability, higher-resolution readings, and more advanced features than any other electronic communication register previously available.

Magnetic Drive

The SR II features a hydrodynamically balanced piston design that eliminates premature wear of components. The meter utilizes a patented positive reliable drive coupling. The high strength magnets eliminate "drive slip" in normal use and also provide adequate strength to drive remote register units.

Maintenance

SR II meters are engineered to provide long-term value and virtually maintenance-free operation. Simplicity of design allows interchangeability of parts of like-size meters, reduced parts inventory requirements and ease of maintenance. The register can be removed without relieving the water pressure or removing the maincase from the installation.

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SR II® Water Meter

Positive Displacement Water Meter with Sensus® Electronic Register+™

Smart Alarms

Electronic Register+ has several user configurable smart alarms. Get alerts and address these issues before they become more costly:

- Tampering
  Detect register removal as well as magnetic interference to reduce apparent water losses and protect against unauthorized activities.
- Low Battery
  Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter is running low.
- Customer Leak
  Detect continual consumption of water over a configurable period of time to indicate downstream leaks. This can reduce water loss and leak adjustment costs.
- Reverse Flow
  Keep untreated water from re-entering your distribution system or deter tampering attempts when reverse flow is detected.
- High Flow
  Detect broken pipes, high usage and reduce property damage through an alert triggered when excessive flow rates are recorded.



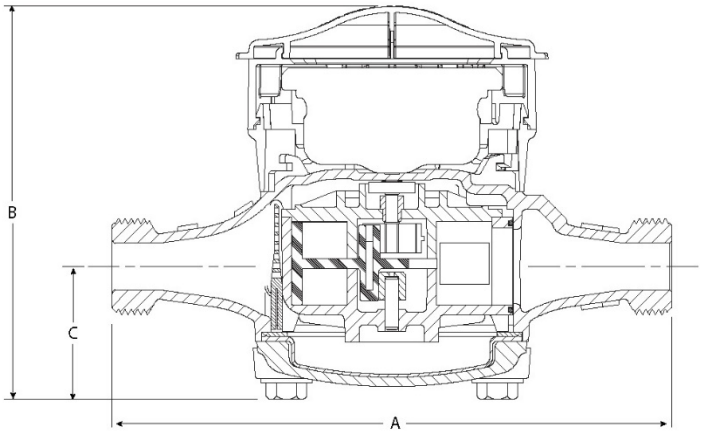
SPECIFICATIONS

Service	Measurement of potable and reclaim water. 0-100% humidity. Fully submersible. IP68+rated.			
Temperature Ranges	Water operating: Ambient air operating: Storage air:	33 °F (0.55 °C) to 80 °F (26.7 °C) -22 °F (-30 °C) to 140 °F (60 °C) -30 °F (-34.4 °C) to 158 °F (70 °C)		
Low flow registration (95%-101.5%)	5/8" (DN 15 mm) size: 1/4 gpm (0.06 m^3/hr)	5/8" x 3/4" (DN 15x20 mm) size: 1/4 gpm (0.06 m^3/hr)	3/4" (DN 20 mm) size: 1/2 gpm (0.10 m^3/hr)	1" (DN 25 mm) size: 3/4 gpm (0.15 m^3/hr)
Normal operating flow range (100% ±1.5%)	5/8" (DN 15 mm) size: 1 to 20 gpm (0.25 to 4.5 m^3/hr)	5/8" x 3/4" (DN 15 mm) size: 1 to 20 gpm (0.25 to 4.5 m^3/hr)	3/4" (DN 20 mm) size: 2 to 30 gpm (0.45 to 7.0 m^3/hr)	1" (DN 25 mm) size: 3 to 50 gpm (0.07 to 11.0 m^3/hr)
Maximum pressure loss	5/8" (DN 15 mm) size: 7.0 psi at 20 gpm (0.5 bar at 4.5 m^3h)	5/8" x 3/4" (DN 15 mm) size: 7.0 psi at 20 gpm (0.5 bar at 4.5 m^3h)	3/4" (DN 20 mm) size: 9.0 psi at 30 gpm (0.6 bar at 7.0 m^3h)	1" (DN 25 mm) size: 7.3 psi at 50 gpm (0.5 bar at 11.0 m^3h)
Maximum operating pressure	150 psi (10.0 bar)			
Measurement element	Oscillating piston			
Register	Electronic Register+: Hermetically sealed, communication of smart alarms with cable output options. 9 available digits. Direct Read: Hermetically sealed, no communication output. 6 odometer wheels.			
Capacity	10,000,000 gallons, 1,000,000 cubic feet or 100,000 m^3 capacity.			
Register Resolution	Electronic: .01 gallons/imperial gallons, .001 cubic foot, or .0001 m^3. Direct Read: 10 gallons, 1 cubic foot, or 0.01 m^3/ or 0.1 m^3/sweep hand revolution.			
Meter Connections	5/8" (DN 15 mm) size: 3/4" (20 mm) threads 3/4" (DN 20 mm) size: 1" (25 mm) threads (All threads are straight pipe, external type, conforming to ANSI B1.20.1 or ISO R228, if specified.)		5/8" x 3/4" (DN 15x20 mm) size: 1" (25 mm) threads 1" (DN 25 mm) size: 1-1/4" (32 mm) threads	
Conformance to Standards	Meets the requirements of NSF 61, Annex G and NSF 372. Complies with the most current AWWA Standard C700.			
Materials	Maincase - Bismuth BiAlloy CDA 89836 or EnviroBrass II C89520 Register Box - Synthetic polymer Measuring chamber - Rocksyn®		Bottom plate - Bismuth BiAlloy CDA89836 Magnets - Ceramic Casing bolts - Stainless steel Strainer - Synthetic polymer	

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SR II® Water Meter

Positive Displacement Water Meter with Sensus® Electronic Register+™



DIMENSIONS AND NET WEIGHTS

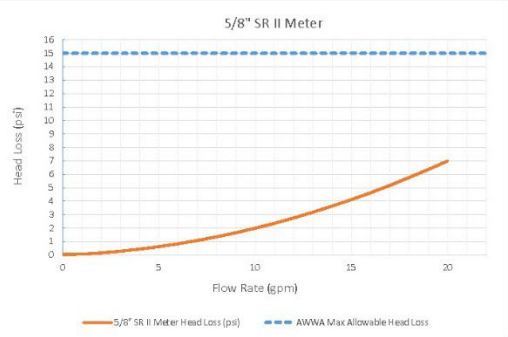
Meter Size	A	B	C	Width	Net Weight
5/8″ (DN 15mm)	7-1/2″ (190 mm)	5-3/8″ (136 mm)	1-3/4″ (44 mm)	3-7/8″ (98 mm)	4.3 lb. (1.97 kg)
5/8″ x 3/4″ (DN 15mm x 20mm)	7-1/2″ (190 mm)	5-3/8″ (136 mm)	1-3/4″ (44 mm)	3-7/8″ (98 mm)	4.4 lb. (2.0 kg)
3/4″ Short (DN 20mm)	7-1/2″ (190 mm)	5-7/8″ (149 mm)	2-3/16″ (56 mm)	4-1/2″ (114 mm)	6.2 lb. (2.81 kg)
3/4″ (DN 20mm)	9″ (229 mm)	5-7/8″ (149 mm)	2-3/16″ (56 mm)	4-1/2″ (114 mm)	6.4 lb. (2.90 kg)
1″ (DN 25mm)	10-3/4″ (273 mm)	7-1/8″ (181 mm)	2-3/4″ (70 mm)	6-1/2″ (165 mm)	11.9 lb. (5.4 kg)

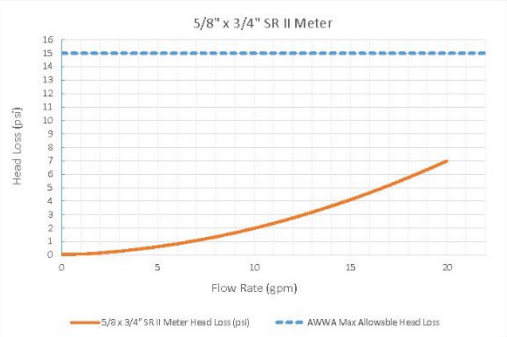
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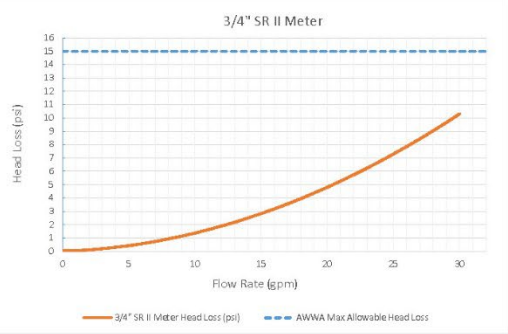
SR II® Water Meter

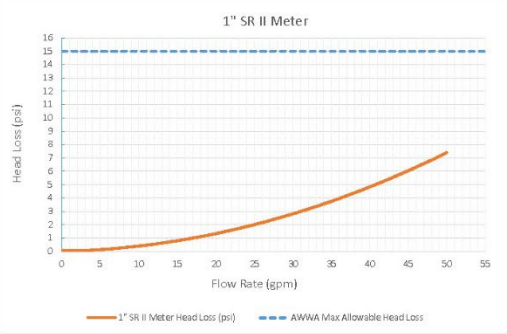
Positive Displacement Water Meter with Sensus® Electronic Register+™

Head Loss Curves









xylem

Xylem.com | Sensus.com

SENSUS | 637 Davis Drive | Morrisville, NC 27560 | 800.638.3748

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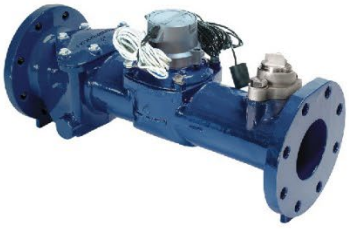
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OMNI+ T2

xylem
Let's Solve Water

DATA SHEET
WDS-10018-06



OMNI+ Turbo (T²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

The OMNI™+ T² meter operation is based on advanced Floating Ball Technology (FBT).

Performance

The patented measurement principles of the OMNI+ T² meter ensure greater accuracy, expanded accuracy range and longer service life than any other comparable class meter. The OMNI+ T² meter has no restrictions on sustained flow rates within its continuous range. The floating ball measurement technology allows installation in any orientation and flows up to maximum rated capacity without undue wear or accuracy degradation.

Construction

The OMNI+ T² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high pressure o-ring, testing port and a convenient integral strainer.

OMNI+ Electronic Register

The OMNI+ electronic register is hermetically sealed with an electronic pickup containing no mechanical gearing. The OMNI+ register features a programmable totalizer registration, an optional digital pulse signal, AMI/ AMR reading digits, and a resettable test totalizer. The large, easy-to-read LCD also displays both forward and reverse flow directions. The OMNI+ tamper-proof security cover can be positioned in any of 270 degrees of rotation, with indexing points at each of the 90-degree customary register viewing positions.

Magnetic Drive

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

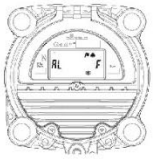
Measuring Element

The hydro-dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI+ T² meter.

OMNI™+ REGISTER DISPLAY


Segment Test View


Totalizer View


Notification View


Flow Rate View

Conformance to Standards

The OMNI+ T² meter meets and far exceeds the most recent revision of AWWA Standard C701 class II standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved.

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OMNI+ Turbo (T²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

Strainer

The OMNI+ T² with the AWWA compliant "V" shaped strainer uses a stainless steel screen along with Floating Ball Technology (FBT). This creates a design that greatly improves accuracy, even in difficult settings. A removable strainer cover permits easy access to the screen for routine maintenance.

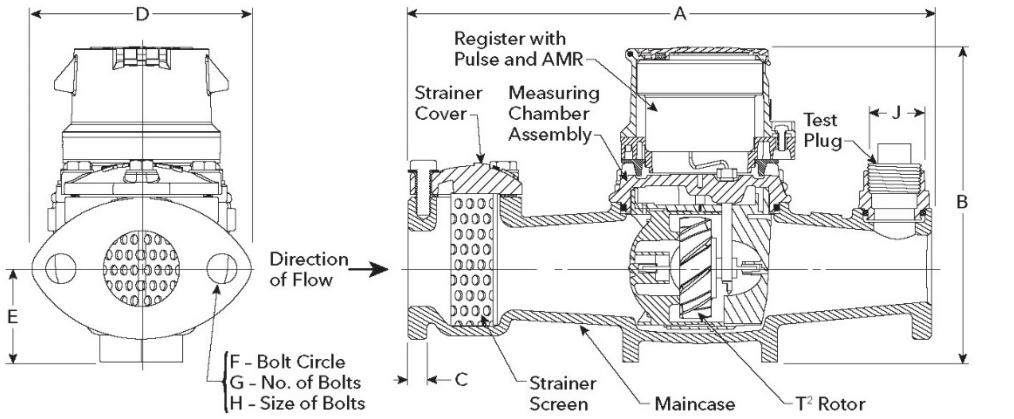
AMR/AMI Systems

Meters and Electronic Registers are compatible with current Sensus AMR/AMI systems and other AMI communication systems that use the Sensus UI1203 protocol.

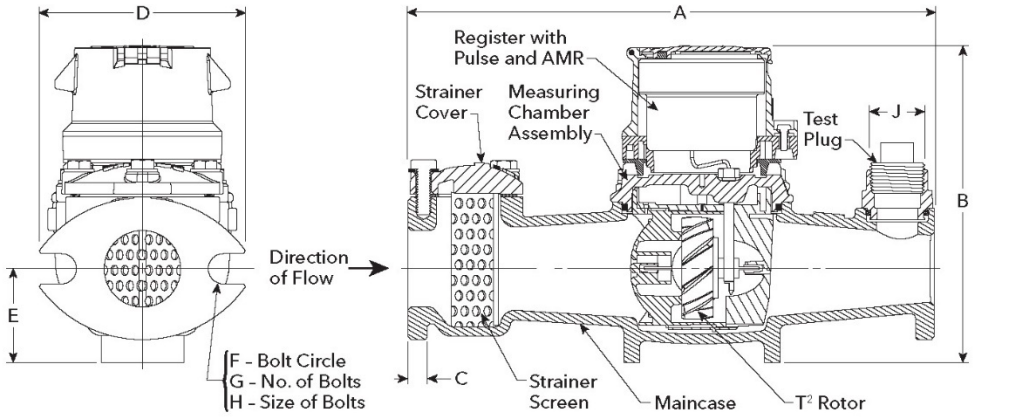
Maintenance

The OMNI+ T² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and/or strainer cover can be removed independently. Replacement parts or complete measuring chambers are available for repairs. OMNI+ T² replacement measuring chambers may also be utilized to upgrade some third-party meters to achieve increased accuracy and extended service life.

OMNI T²: 1-1/2"



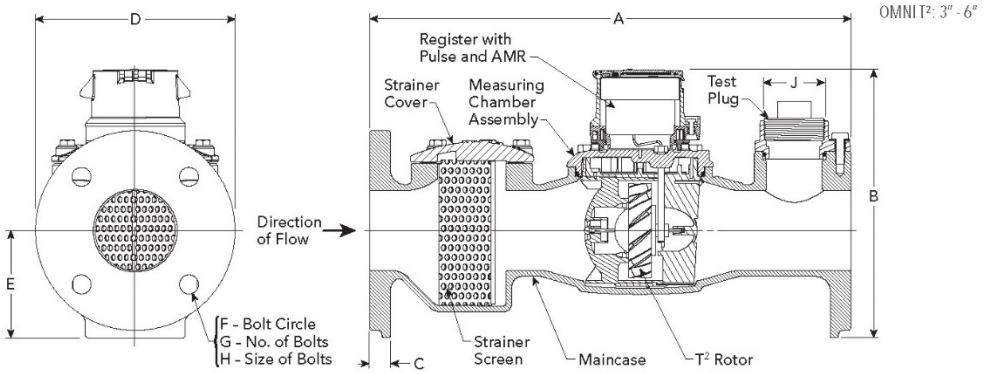
OMNI T²: 2"

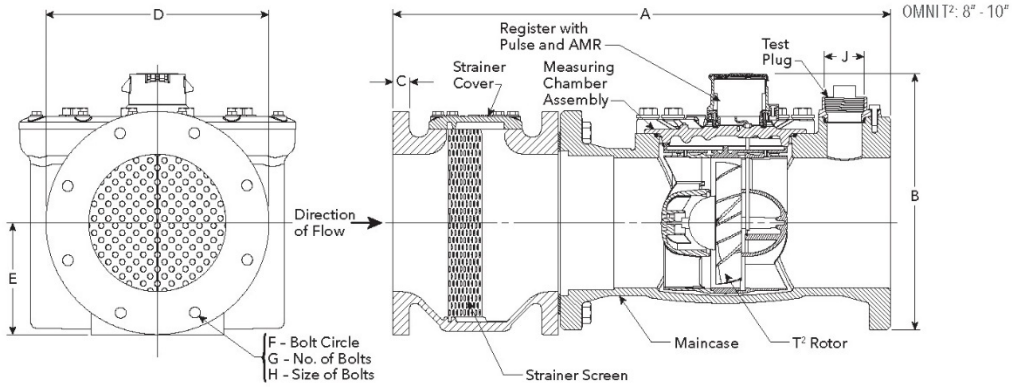


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OMNI+ Turbo (T²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"





DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight
1-1/2" DN 40mm	1.25 gpm .28 m³/hr	200 gpm 45 m³/hr	Flanged	13" 330mm	7-7/8" 200mm	15/16" 24mm	5-7/16" 138mm	2-5/16" 59mm	4" 102mm	2	5/8" 16mm	1" 25mm	18.8 lbs. 8.53 kg.	22.5 lbs. 10.2 kg.
2" DN 50mm	1.5 gpm .34 m³/hr	250 gpm 57 m³/hr	Flanged	17" 432mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	1-1/2" 38mm	27.4 lbs. 12.4 kg.	34.5 lbs. 15.6 kg.
2" w/o Strainer DN 50mm	1.5 gpm .34 m³/hr	250 gpm 57 m³/hr	Flanged	10" 254mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	N/A	17.4 lbs. 7.9 kg.	24.5 lbs. 11.1 kg.
3" DN 80mm	2.5 gpm .57 m³/hr	650 gpm 148 m³/hr	Flanged	19" 483mm	8-3/4" 225mm	3/4" 19mm	7-7/8" 200mm	4-1/8" 105mm	6" 153mm	4	5/8" 16mm	2" 51mm	48.5 lbs. 22.0 kg.	57.4 lbs. 26.0 kg.
4" DN 100mm	3.0 gpm .68 m³/hr	1250 gpm 284 m³/hr	Flanged	23" 584mm	11-3/16" 284mm	15/16" 24mm	9-1/8" 232mm	4-3/4" 121mm	7-1/2" 191mm	8	5/8" 16mm	2" 51mm	67.9 lbs. 30.8 kg.	75.8 lbs. 34.4 kg.
6" DN 150mm	4 gpm .91 m³/hr	2500 gpm 568 m³/hr	Flanged	27" 686mm	13-1/4" 337mm	15/16" 24mm	11" 279mm	5-3/4" 146mm	9-1/2" 241mm	8	3/4" 19mm	2" 51mm	140 lbs. 63.5 kg.	165 lbs. 74.8 kg.
8" DN 200mm	5 gpm 1.1 m³/hr	3500 gpm 795 m³/hr	Flanged	30-1/8" 765mm	15" 381mm	11/16" 17mm	13-1/2" 343mm	6-3/4" 171mm	11-3/4" 298mm	8	3/4" 19mm	2" 51mm	471 lbs. 214 kg.	521 lbs. 236 kg.
10" DN 250mm	6 gpm 1.4 m³/hr	5500 gpm 1249 m³/hr	Flanged	41-1/8" 1045mm	19" 483mm	11/16" 17mm	16" 406mm	8-1/2" 216mm	14-1/4" 362mm	12	7/8" 22mm	2" 51mm	685 lbs. 311 kg.	745 lbs. 338 kg.

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OMNI+ Turbo (T^2) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

SPECIFICATIONS

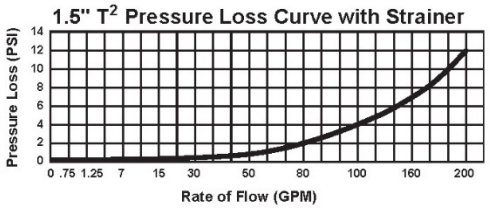
Service	Measurement of potable and reclaim water. Storage temperature: -22F (-30C) to 155F (68.3C)	Operating temperatures: Air: -22F (-30C) to 150F (65.6C) Water: 33F (0.6C) to 80F (26.7)
Operating Range (100% ± 1.5%)	1-1/2": 1.25 – 200 GPM (0.28 - 45 m^3/hr) 2": 1.5 – 250 GPM (0.34 - 57 m^3/hr) 3": 2.5 – 650 GPM (0.57 - 148 m^3/hr) 4": 3 – 1250 GPM (0.68 - 284 m^3/hr)	6": 4 – 2500 GPM (0.91 - 568 m^3/hr) 8": 5 – 3500 GPM (1.1 - 795 m^3/hr) 10": 6 – 5500 GPM (1.4 - 1249 m^3/hr)
Low flow (95% – 101.5%)	1-1/2": 0.75 GPM (0.17 m^3/hr) 2": 1.0 GPM (0.23 m3/hr) 3": 1.5 GPM (0.34 m^3/hr) 4": 2.0 GPM (0.45 m^3/hr)	6": 2.5 GPM (0.57 m^3/hr) 8": 4 GPM (0.91 m^3/hr) 10": 5 GPM (1.1 m^3/hr)
Maximum Continuous Operation	1-1/2": 160 GPM (36 m^3/hr) 2": 200 GPM (45 m^3/hr) 3": 500 GPM (114 m^3/hr) 4": 1000 GPM (227 m^3/hr)	6": 2000 GPM (454 m^3/hr) 8": 3500 GPM (795 m^3/hr) 10": 5500 GPM (1249 m^3/hr)
Maximum Intermittent Operation	1-1/2": 200 GPM (45 m^3/hr) 2": 250 GPM (57 m^3/hr) 3": 650 GPM (148 m^3/hr) 4": 1250 GPM (284 m^3/hr)	6": 2500 GPM (568 m^3/hr) 8": 4700 GPM (1067 m^3/hr) 10": 7000 GPM (1590 m^3/hr)
Pressure Loss	1-1/2": 6.9 psi @ 160 GPM (0.48 bar @ 36 m3/hr) 2": 7.0 psi @ 200 GPM (0.48 bar @ 45 m^3/hr) 3": 5.1 psi @ 500 GPM (0.35 bar @ 114 m^3/hr) 4": 8.7 psi @ 1000 GPM (0.60 bar @ 227 m^3/hr)	6": 8.2 psi @ 2000 GPM (0.57 bar @ 454 m^3/hr) 8": 5.1 psi @ 3500 GPM (0.35 bar @ 795 m^3/hr) 10": 7.2 psi @ 5500 GPM (0.50 bar @ 1249 m^3/hr)
Maximum Operating Pressure	200 PSI (13.8 bar)	
Flange Connections	U.S. ANSI B16.1 / AWWA Class 125	
Test Ports	NPT	
Register	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft./ Cu. Mtr. / Imp. Gal. / Acre Ft.)	Programmable AMR/AMI reading and pulse outputs Guaranteed 10-year battery life
NSF Approved Materials	Maincase: Coated Ductile Iron Measuring Chamber: Thermoplastic Rotor "Floating Ball": Thermoplastic Radial Bearings: Hybrid Thermoplastic Thrust Bearings: Sapphire/Ceramic Jewel	Magnets: Ceramic Strainer Screen: Stainless Steel Strainer Cover: Coated Ductile Iron Test Plug: Stainless Steel

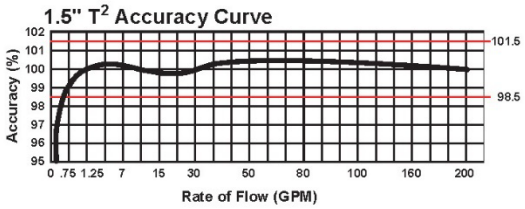
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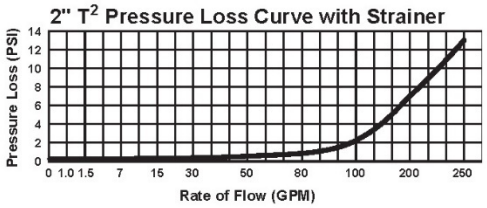
OMNI+ Turbo (T²) Water Meter

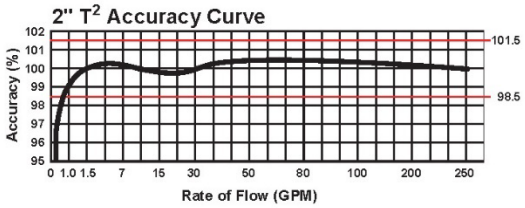
1-1/2", 2", 3", 4", 6", 8" and 10"

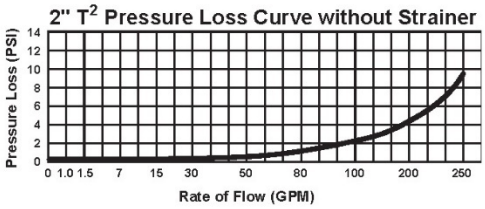
Headloss Curves

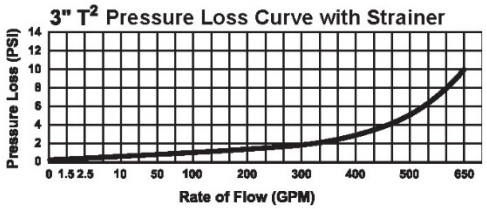


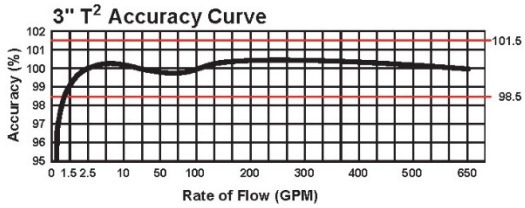


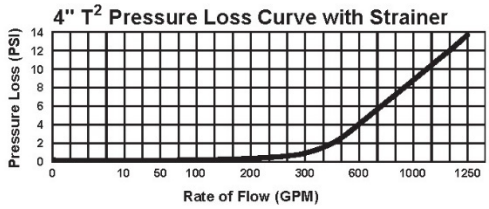


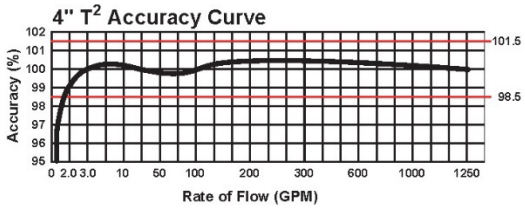










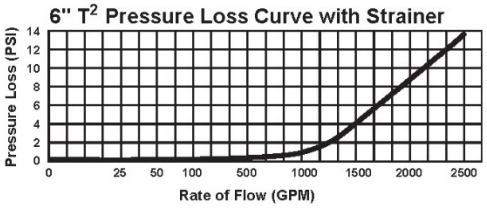


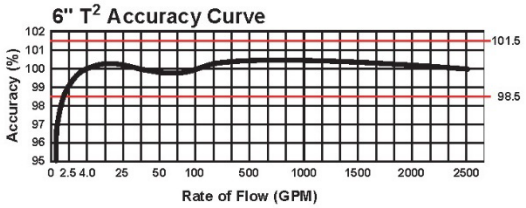
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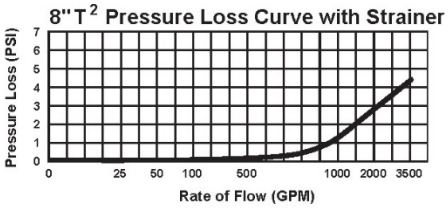
OMNI+ Turbo (T²) Water Meter

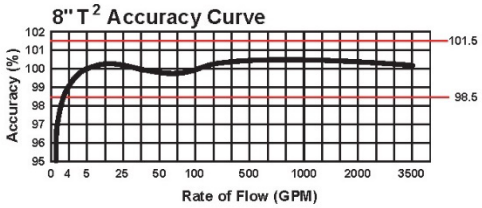
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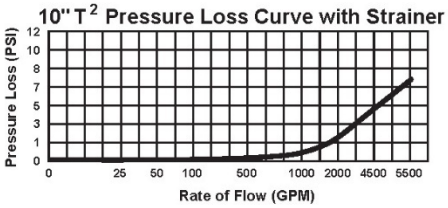
Headloss Curves

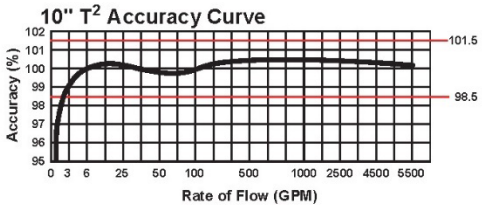












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OMNI+ C2

xylem
Let's Solve Water

DATA SHEET
WDS-10017-07



OMNI+ Compound (C²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

The OMNI™+ Compound (C²) Water Meter operation is based on advanced Floating Ball Technology (FBT).

Performance

The patented measurement principles of the OMNI+ C² meter ensure greater accuracy, expanded accuracy range and longer service life than any other comparable class meter. The OMNI+ C² meter has no restrictions on sustained flow rates within its continuous range. The floating ball measurement technology allows installation in any orientation and flows up to maximum rated capacity without undue wear or accuracy degradation.

Construction

The OMNI+ C² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high pressure o-ring, testing port and an AWWA compliant strainer.

OMNI+ Electronic Register

The OMNI+ electronic register is hermetically sealed with an electronic pickup containing no mechanical gearing. The OMNI+ register features a programmable totalizer registration, an optional digital pulse signal, AMI/ AMR reading digits, and a resettable test totalizer. The large, easy-to-read LCD also displays both forward and reverse flow directions. The OMNI+ tamper-proof security cover can be positioned in any of 270 degrees of rotation, with indexing points at each of the 90-degree customary register viewing positions.

Magnetic Drive

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

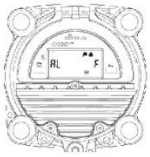
Measuring Element

The hydro-dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI+ C² meter.

OMNI™+ REGISTER DISPLAY


Segment Test View


Totalizer View


Notification View


Flow Rate View

Conformance to Standards

The OMNI+ C² meter meets and far exceeds the most recent revision of AWWA Standard C701 and C702 class II. Additionally, the meter does not require a valve to meet these standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved latest standards.

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OMNI+ Compound (C²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

Strainer

The OMNI+ C² with the AWWA compliant "V" shaped strainer uses a stainless steel screen along with Floating Ball Technology (FBT). This creates a design that greatly improves accuracy, even in difficult settings. A removable strainer cover permits easy access to the screen for routine maintenance.

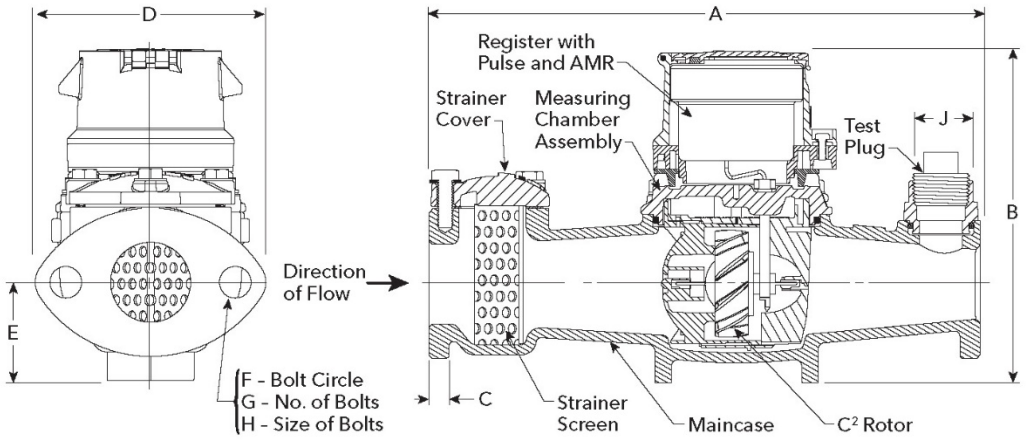
AMR/AMI Systems

Meters and Electronic Registers are compatible with current Sensus AMR/AMI systems and other AMI communication systems that use the Sensus UI1203 protocol.

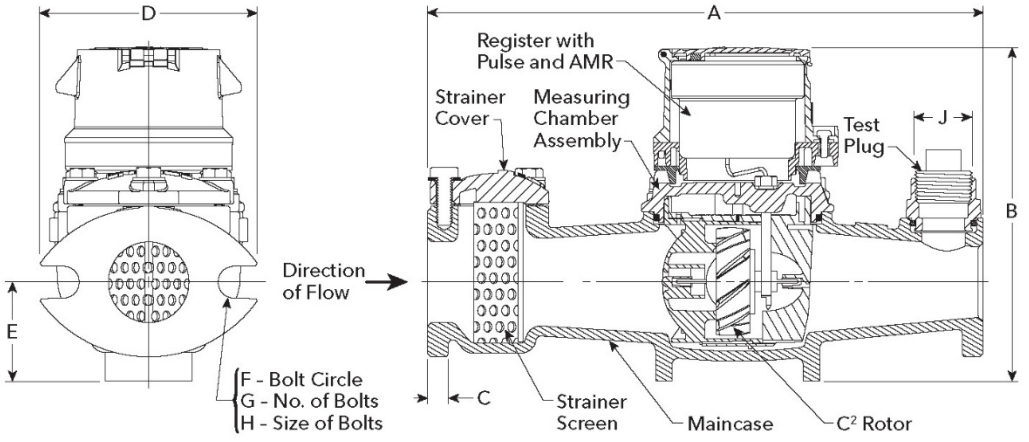
Maintenance

The OMNI+ C² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and/or strainer cover can be removed independently. Replacement parts or complete measuring chambers are available for repairs. OMNI+ C² replacement measuring chambers may also be utilized to upgrade some third-party meters to achieve increased accuracy and extended service life.

OMNI C²: 1-1/2"



OMNI C²: 2"

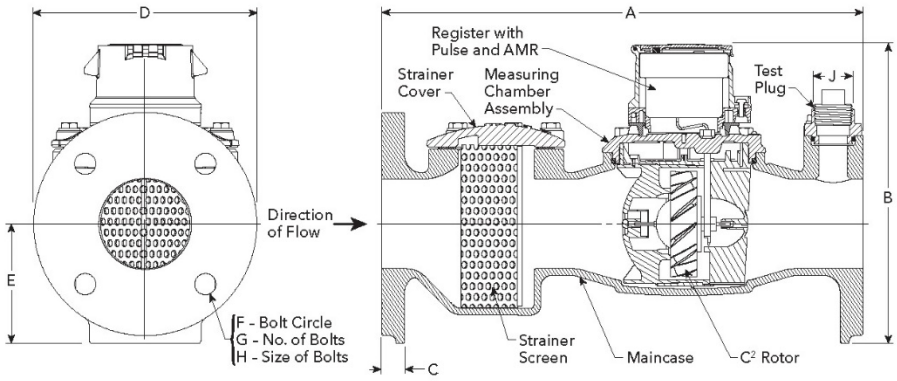


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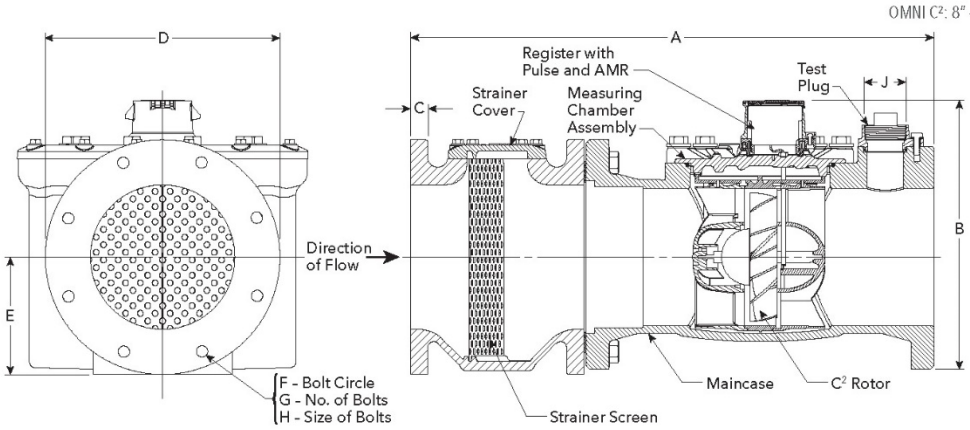
OMNI+ Compound (C²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

OMNI C²: 3" - 6"



OMNI C²: 8" - 10"



DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight
1-1/2" DN 40mm	.5 gpm .11 m³/hr	200 gpm 45 m³/hr	Flanged	13" 330mm	7-7/8" 200mm	15/16" 24mm	5-7/16" 138mm	2-5/16" 59mm	4" 102mm	2	5/8" 16mm	1" 25mm	18.8 lbs. 8.53 kg.	22.5 lbs. 10.20 kg.
2" DN 50mm	.5 gpm .11 m³/hr	200 gpm 45 m³/hr	Flanged	15-1/4" 387mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	1" 25mm	25.4 lbs. 11.5 kg.	32.5 lbs. 14.74 kg.
3" DN 80mm	1 gpm .23 m³/hr	500 gpm 114 m³/hr	Flanged	17" 432mm	8-3/4" 225mm	3/4" 19mm	7-7/8" 200mm	4-1/8" 105mm	6" 152mm	4	5/8" 16mm	1" 25mm	45 lbs. 20.41 kg.	48.0 lbs. 21.8 kg.
4" DN 100mm	1.5 gpm .34 m³/hr	1000 gpm 227 m³/hr	Flanged	20" 508mm	11-3/16" 284mm	15/16" 24mm	9-1/8" 232mm	4-3/4" 121mm	7-1/2" 191mm	8	5/8" 16mm	1-1/2" 38mm	64.9 lbs. 29.44 kg.	72.8 lbs. 33.02 kg.
6" DN 150mm	3 gpm .68 m³/hr	2000 gpm 454 m³/hr	Flanged	24" 610mm	13-1/4" 337mm	15/16" 24mm	11" 279mm	5-3/4" 146mm	9-1/2" 241mm	8	3/4" 19mm	1-1/2" 38mm	130 lbs. 59.0 kg.	155 lbs. 70.3 kg.
8" DN 200mm	4 gpm .91 m³/hr	2700 gpm 614 m³/hr	Flanged	30-1/8" 765mm	15" 381mm	11/16" 17mm	13-1/2" 343mm	6-3/4" 172mm	11-3/4" 298mm	8	3/4" 19mm	2" 51mm	471 lbs. 214 kg.	521 lbs. 236 kg.
10" DN 250mm	5 gpm 1.1 m³/hr	4000 gpm 908 m³/hr	Flanged	41-1/8" 1045mm	19" 483mm	11/16" 17mm	16" 406mm	8-1/2" 216mm	14-1/4" 362mm	12	7/8" 22mm	2" 51mm	685 lbs. 311 kg.	745 lbs. 338 kg.

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OMNI+ Compound (C²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

SPECIFICATIONS

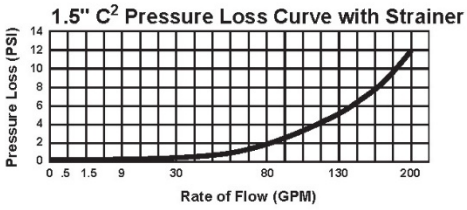
Service	Measurement of potable and reclaim water. Storage temperature: -22F (-30C) to 155F (68.3C)	Operating temperatures: Air: -22F (-30C) to 150F (65.6C) Water: 33F (0.6C) to 80F (26.7C)
Operating Range (100% ± 1.5%)	1-1/2": 0.5 – 200 GPM (0.11 - 45 m3/hr) 2": 0.5 – 200 GPM (0.11 - 45 m3/hr) 3": 1.0 – 500 GPM (0.23 - 114 m3/hr) 4": 1.5 – 1000 GPM (0.34 - 227 m3/hr)	6": 3 – 2000 GPM (0.68 - 454 m3/hr) 8": 4 – 2700 GPM (0.91 - 614 m3/hr) 10": 5 – 4000 GPM (1.1 - 908 m3/hr)
Low flow (95% – 101.5%)	1-1/2": 0.25 GPM (.06 m3/hr) 2": 0.25 GPM (.06 m3/hr) 3": 0.5 GPM (0.11 m3/hr) 4": 0.75 GPM (0.17 m3/hr)	6": 1.5 GPM (0.34 m3/hr) 8": 2.5 GPM (0.57 m3/hr) 10": 3.5 GPM (0.8 m3/hr)
Maximum Continuous Operation	1-1/2": 160 GPM (36 m3/hr) 2": 160 GPM (36 m3/hr) 3": 400 GPM (91 m3/hr) 4": 800 GPM (182 m3/hr)	6": 1600 GPM (363 m3/hr) 8": 2700 GPM (614 m3/hr) 10": 4000 GPM (908 m3/hr)
Maximum Intermittent Operation	1-1/2": 200 GPM (45 m3/hr) 2": 200 GPM (45 m3/hr) 3": 500 GPM (114 m3/hr) 4": 1000 GPM (227 m3/hr)	6": 2000 GPM (454 m3/hr) 8": 3400 GPM (773 m3/hr) 10": 5000 GPM (1136 m3/hr)
Pressure Loss	1-1/2": 6.9 psi @ 160 GPM (0.48 bar @ 36 m3/hr) 2": 4.3 psi @ 160 GPM (0.30 bar @ 36 m3/hr) 3": 3.2 psi @ 400 GPM (0.22 bar @ 91 m3/hr) 4": 6.4 psi @ 800 GPM (0.44 bar @ 182 m3/hr)	6": 5.5 psi @ 1600 GPM (0.38 bar @ 363 m3/hr) 8": 4 psi @ 2700 GPM (0.28 bar @ 614 m3/hr) 10": 4.5 psi @ 4000 GPM (0.31 bar @ 908 m3/hr)
Maximum Operating Pressure	200 PSI (13.8 bar)	
Flange Connections	U.S. ANSI B16.1 / AWWA Class 125	
Test Ports	NPT	
Register	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft./ Cu. Mtr. / Imp. Gal. / Acre Ft.)	Programmable AMR/AMI reading and pulse outputs Guaranteed 10-year battery life
NSF Approved Materials	Maincase: Coated Ductile Iron Measuring Chamber: Thermoplastic Rotor "Floating Ball": Thermoplastic Radial Bearings: Hybrid Thermoplastic Thrust Bearings: Sapphire/Ceramic Jewel	Magnets: Ceramic Strainer Screen: Stainless Steel Strainer Cover: Coated Ductile Iron Test Plug: Stainless Steel

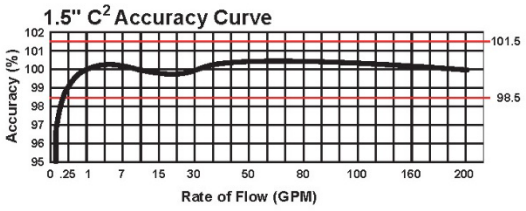
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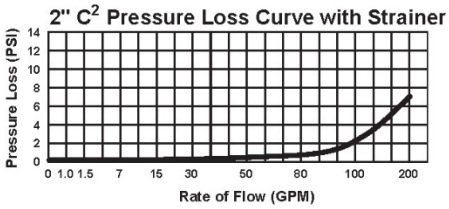
OMNI+ Compound (C^2) Water Meter

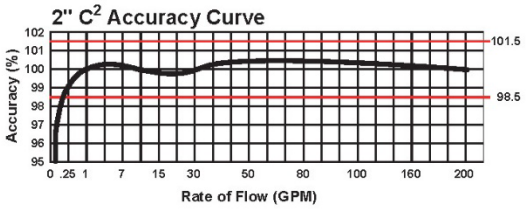
1-1/2", 2", 3", 4", 6", 8" and 10"

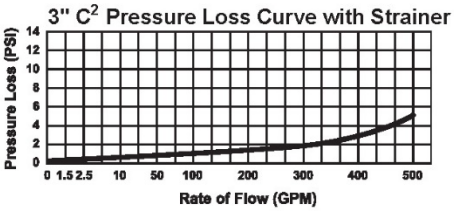
Headloss Curves

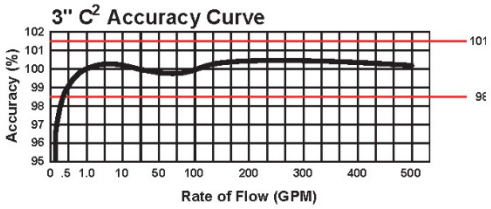


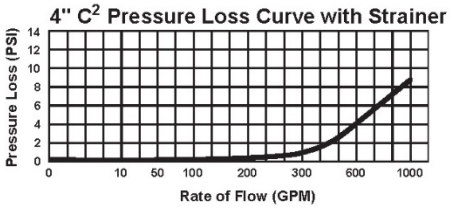


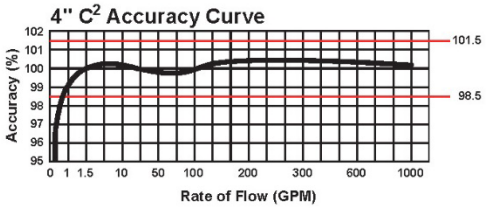


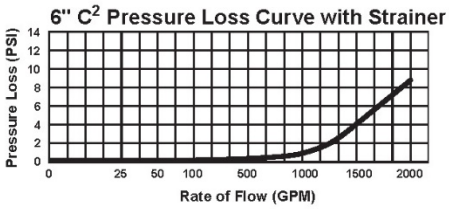


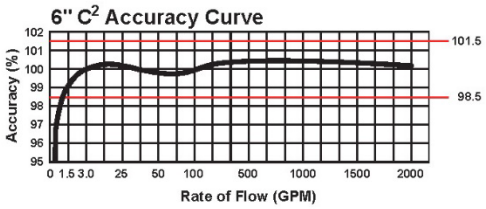










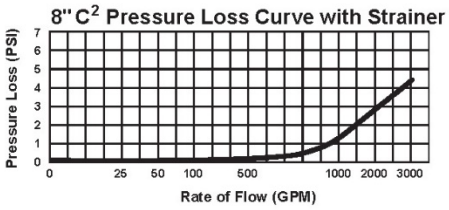


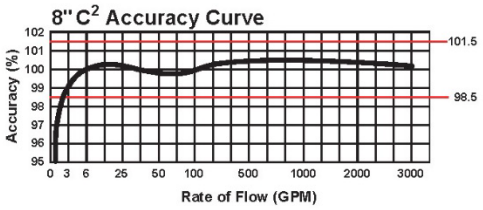
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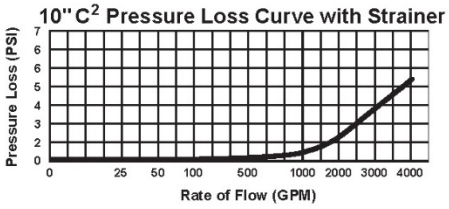
OMNI+ Compound (C^2) Water Meter

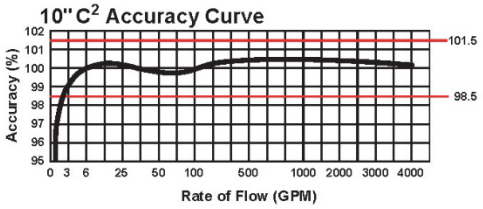
1-1/2", 2", 3", 4", 6", 8" and 10"

Headloss Curves









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OMNI+ R2

DATA SHEET
WDS-10029-10



OMNI+ (R^2) Water Meter

1-1/2" and 2"

The OMNI™+ R^2 Water Water Meter operation is based on advanced Floating Ball Technology (FBT).

Performance

The patented measurement principles of the OMNI+ R^2 meter ensure greater accuracy, expanded accuracy range and longer service life than any other comparable class meter. The OMNI+ R^2 meter has no restrictions on sustained flow rates within its continuous range. The floating ball measurement technology allows installation in any orientation and flows up to maximum rated capacity without undue wear or accuracy degradation.

Construction

The OMNI+ R^2 meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high pressure o-ring, testing port and a convenient integral strainer.

OMNI+ Electronic Register

The OMNI+ electronic register is hermetically sealed with an electronic pickup containing no mechanical gearing. The OMNI+ register features a programmable totalizer registration, AMI/ AMR reading digits, and a resettable test totalizer. The large, easy-to-read LCD also displays both forward and reverse flow directions. The OMNI+ tamper-proof security cover can be positioned in any of 270 degrees of rotation, with indexing points at each of the 90-degree customary register viewing positions.

Magnetic Drive

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

Measuring Element

The hydro-dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI+ R^2 meter.

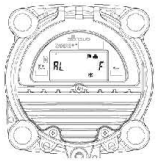
OMNI™+ REGISTER DISPLAY



Segment Test View



Totalizer View



Notification View



Flow Rate View

Conformance to Standards

The OMNI+ R^2 meter meets and far exceeds the most recent revision of ANSI/ AWWA Standard C701 class II standards and exceeds performance criteria for ANSI/AWWA C700 Residential Standard using Sensus Turbo technology. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ ANSI Standard 61, Annex F and G approved.

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OMNI+ (R^2) Water Meter

1-1/2" and 2"

Strainer

The OMNI+ R^2 with the "V" shaped strainer uses a stainless steel screen along with Floating Ball Technology (FBT). This creates a design that greatly improves accuracy, even in difficult settings. A removable strainer cover permits easy access to the screen for routine maintenance.

AMR/AMI Systems

Meters and Electronic Registers are compatible with current Sensus AMR/AMI systems and other AMI communication systems that use the Sensus UI1203 protocol.

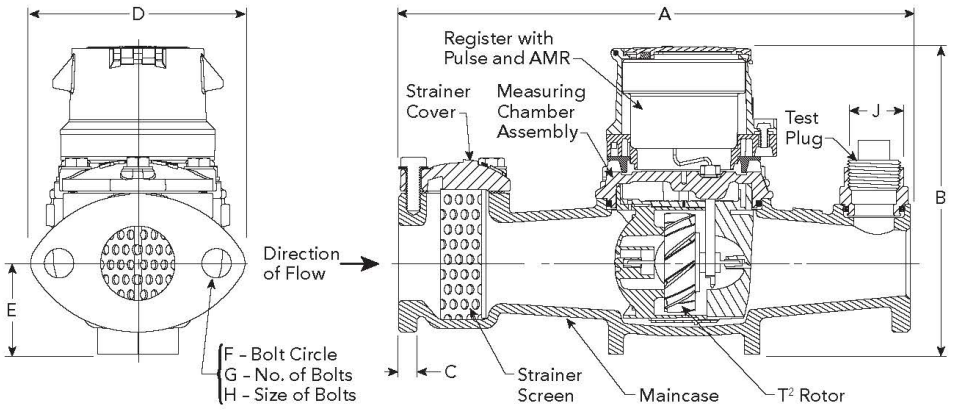
Maintenance

The OMNI+ R^2 meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and/or strainer cover can be removed independently. Replacement parts or complete measuring chambers are available for repairs. OMNI+ R^2 replacement measuring chambers may also be utilized to upgrade some third-party meters to achieve increased accuracy and extended service life.

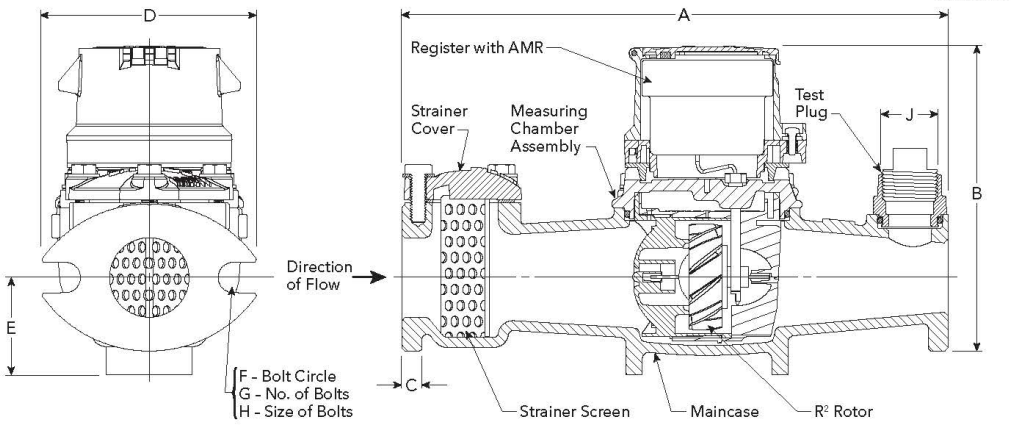
Data Logging

The OMNI+ R^2 meter logs 180 days of hourly consumption data.

OMNI R^2: 1-1/2"



OMNI R^2: 2"

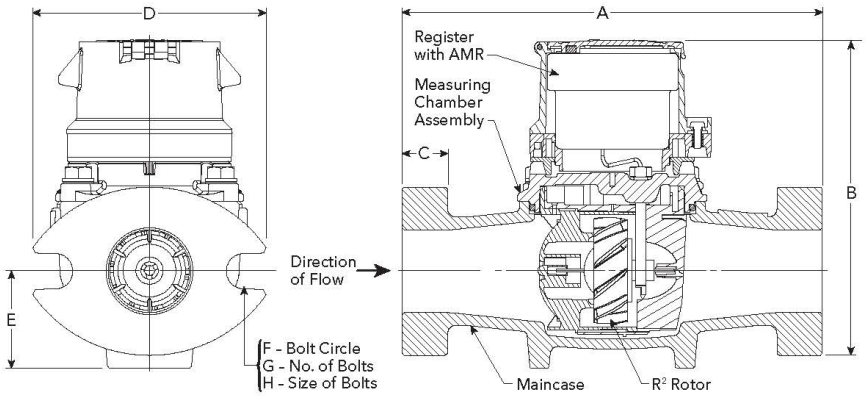


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OMNI+ (R^2) Water Meter

1-1/2" and 2"

OMNI R^2: 2" Without Strainer



DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight
1-1/2" DN 40 mm	2 gpm 0.45 m^3/hr	150 gpm 34 m^3/hr	Flanged	13" 330 mm	8-1/2" 216 mm	15/16" 24mm	5-7/16" 138 mm	2-5/16" 59 mm	4" 102 mm	2	5/8" 16 mm	1" 25 mm	18.8 lb 8.53 kg	22.5 lb 10.2 kg
2" DN 50 mm	2.5 gpm 0.57 m^3/hr	200 gpm 45 m^3/hr	Flanged	17" 432 mm	8-1/2" 216 mm	1" 25 mm	5-3/4" 146 mm	2-5/16" 59 mm	4-1/2" 114 mm	2	5/8" 16 mm	1-1/2" 38 mm	27.4 lb 12.4 kg	34.5 lb 15.6 kg
2" without Strainer DN 80 mm	2.5 gpm 0.57 m^3/hr	250 gpm 57 m^3/hr	Flanged	10" 254 mm	8-1/2" 216 mm	1" 25 mm	5-3/4" 146 mm	2-5/16" 59 mm	4-1/2" 114 mm	2	5/8" 16 mm	N/A	17 lb 7.9 kg	24.5 lb 11.1 kg

SPECIFICATIONS

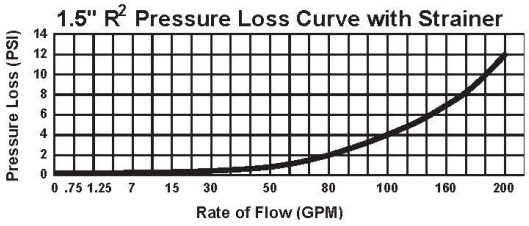
Service	Measurement of potable and reclaim water. IP68 Rated. Storage temperature: -22 °F (-30 °C) to 155 °F (68.3 °C)		Operating temperatures: Air: -22 °F (-30 °C) to 150 °F (65.6 °C) Water: 33 °F (0.6 °C) to 80 °F (26.7 °C)	
Operating Range (100% ± 1.5%)	1-1/2": 2 - 150 gpm (0.45 - 34 m^3/hr)		2": 2.5 - 200 gpm (0.56 - 45 m^3/hr) 2" without strainer: 2.5 - 200 gpm (0.56 - 45 m^3/hr)	
Low flow (95% - 101.5%)	1-1/2": 0.75 gpm (0.17 m^3/hr)		2": 1.0 gpm (0.23 m^3/hr) 2" without strainer: 1.0 gpm (0.23 m^3/hr)	
Maximum Continuous Operation	1-1/2": 120 gpm (27 m^3/hr)		2": 160 gpm (36 m^3/hr) 2" without strainer: 200 gpm (45 m^3/hr)	
Maximum Intermittent Operation	1-1/2": 200 gpm (45 m^3/hr)		2": 250 gpm (57 m^3/hr)	
Pressure Loss	1-1/2": 6.9 psi @ 160 gpm (0.48 bar @ 36 m^3/hr)		2": 7.0 psi @ 200 gpm (0.48 bar @ 45 m^3/hr)	
Maximum Operating Pressure	200 psi (13.8 bar)			
Flange Connections	U.S. ANSI B16.1 / AWWA Class 125			
Register	Fully electronic sealed register with programmable registration (Gal. / Cu. Ft. / Cu. Mtr. / Imp. Gal. / Acre Ft.)		Programmable AMR/AMI reading Guaranteed 10-year battery life	
NSF Approved Materials	Maincase: Measuring Chamber: Rotor "Floating Ball": Radial Bearings:	Coated Ductile Iron Thermoplastic Thermoplastic Hybrid Thermoplastic	Thrust Bearings: Magnets: Strainer Screen: Strainer Cover:	Sapphire/Ceramic Jewel Ceramic Stainless Steel Coated Ductile Iron

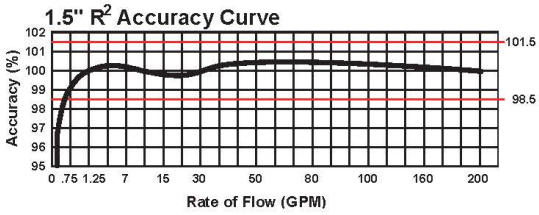
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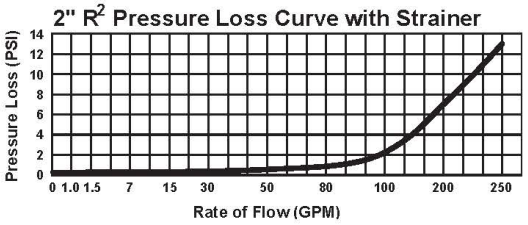
OMNI+ (R^2) Water Meter

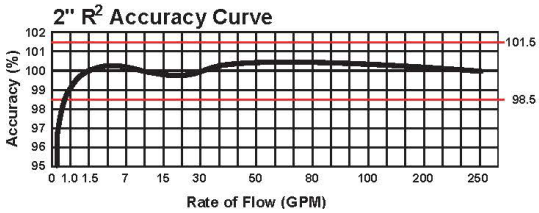
1-1/2" and 2"

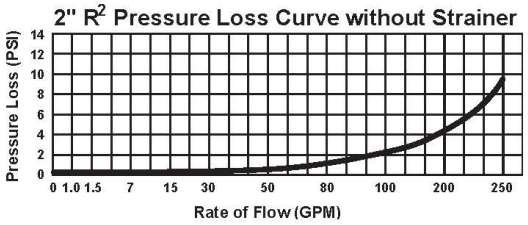
Headloss Curves











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NO MOVING PARTS WATER METERS

iPERL – Standard Model

xylem
Let's Solve Water

DATA SHEET
WDS-10006-06



iPERL Smart Water Meter

Electromagnetic Flow Measurement System

Sensus iPERL® smart water meters are designed to capture both lost water and lost revenue. The innovative magnetic technology delivers unmatched low flow registration and minimal pressure loss. With no moving parts, iPERL maintains its accuracy over a 20 year lifetime and is equipped with smart water alarms - delivering the intelligence you need to quickly resolve issues in the field.

FEATURES

- 5/8", 5/8" x 3/4", 3/4" and 1" sizes available in potable and reclaim versions
- 3/4" and 1" available in residential fire service (UL 327b)
- Starts registering flow as low as 0.03 gpm (0.007 m³/hr)
- Can be installed horizontally, vertically or diagonally
- Compatible with current Sensus AMI/AMR systems

BENEFITS

- Maximize investment with iPERL's electromagnetic technology, which delivers a 20-year accuracy warranty, with no required maintenance, and no loss in accuracy over 20 years
- Smart alarms detect issues such as leaks, reverse flow, empty pipe, etc.
- Improve low flow accuracy to drive additional revenue

Industry Leading Performance

The patented measurement technology of the iPERL water meter provides continuous and enhanced accuracy ranges at both low and high flows and perpetual accuracy over the life of the product. The iPERL meter has a 20-year accuracy warranty and a 20-year battery life guarantee. Over this 20-year lifespan, your iPERL will measure just as accurately as the day it was installed.

Construction

The iPERL meter body is made of composite alloy and contains no metal material. Inside the meter body is an electronic register and a measuring device that is comprised of a composite alloy flow tube.

Electronic Register

The 9-digit hermetically-sealed electronic register with LCD display was designed to eliminate dirt, water, and moisture contamination in pit settings. The large, easy-to-read display includes AMI/AMR digits, direction of flow, units of measure, and empty pipe detection. The AMI/AMR digits and units of measure are fully programmable. The register also provides user configurable data logging.

Solid State Electromagnetic Technology

By avoiding the use of a mechanical measuring element inside the flow tube, metering performance is linear over the entire flow range - ensuring no reduction in accuracy at any flow rate over the life of the meter. The iPERL meter uses our patented remanent magnetic field technology - requiring far less energy and delivering superior accuracy.

Tamperproof

The integrated construction of the iPERL water meter prevents removal of the register to obtain free water. The magnetic tamper and low field alarms will both indicate any attempt to tamper with the magnetic field of the iPERL meter. The meter communication alarm indicates a possible cut cable.

Alarms

Quick resolution of field issues is made possible with smart water alarms including leak detection, reverse flow, empty pipe, magnetic tamper and low battery. When integrated with our FlexNet® communication network, remotely gathering and transmitting data has never been more reliable or profitable.

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iPERL Smart Water Meter

Electromagnetic Flow Measurement System

Smart Alarms

iPERL meters have many configurable smart alarms designed to protect your utility's investment, enhance customer service, and monitor/optimize distribution systems. These alarms include:

- Empty Pipe
  Detects the absence of water in the flow tube and sends an alert. Allows you to identify main breaks downstream and water shortages for quicker resolution to ensure water availability. This alarm can also indicate the water meter has been removed from service, or notify you of potential tamper.
- Tampering
  Detect magnetic interference to reduce apparent water losses and protect against unauthorized activities.
- Customer Leak
  Detect continual consumption of water over a period of time to indicate downstream leaks. This protects your utility, infrastructure and customers through alarm notifications that can reduce water loss and leak adjustment costs.
- Low Battery
  Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter or valve is running low.
- Reverse Flow
  Keep untreated water from re-entering your distribution system and deter tampering attempts through an alarm triggered when reverse flow is detected at the meter.

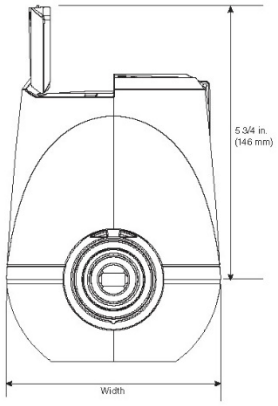
SPECIFICATIONS

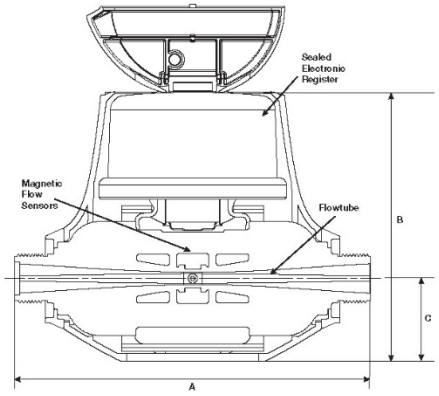
Service	Measurement of potable and reclaim water, and Residential Fire Service (UL 327b). 0-100% humidity. Fully submersible. IP68+ rated.			
Temperature Ranges	Water operating: Ambient air operating: Storage air:	33 °F (0.55 °C) to 80 °F (26.7 °C) -22 °F (-30 °C) to 140 °F (60 °C) -30 °F (-34.4 °C) to 158 °F (70 °C)		
Starting Flow	5/8" (DN 15 mm) size: 0.03 gpm (0.007 m3/h)	5/8" x 3/4" (DN 15x20 mm) size: 0.03 gpm (0.007 m3/h)	3/4" (DN 20 mm) size: 0.03 gpm (0.007 m3/h)	1" (DN 25 mm) size: 0.11 gpm (0.025 m3/h)
Low Flow Range (±3%)	5/8" (DN 15 mm) size: >0.10 gpm (0.025 m3/hr) to <0.18 gpm (0.041 m3/hr)	5/8" x 3/4" (DN 15 mm) size: >0.10 gpm (0.025 m3/hr) to <0.18 gpm (0.041 m3/hr)	3/4" (DN 20 mm) size: >0.10 gpm (0.025 m3/hr) to <0.18 gpm (0.041 m3/hr)	1" (DN 25 mm) size: >0.3 gpm (0.068 m3/hr) to <0.4 gpm (0.09 m3/hr)
Normal Water Operating Flow Range (±1.5%)	5/8" (DN 15 mm) size: 0.18 to 25 gpm (0.04 to 5.7 m3/hr)	5/8" x 3/4" (DN 15x20 mm) size: 0.18 to 35 gpm (0.04 to 5.7 m3/hr)	3/4" (DN 20 mm) size: 0.18 to 35 gpm (0.04 to 8.0 m3/hr)	1" (DN 25 mm) size: 0.4 to 55 gpm (0.09 to 12.5 m3/hr)
Maximum Operating Pressure	5/8", 5/8" x 3/4", and 3/4" size: 200 psi (13.8 bar) 1" size: 175 psi (12.1 bar)			
Measurement Technology	Solid state electromagnetic flow			
Register	Hermetically sealed, 9-digit programmable electronic register			
Capacity	10,000,000 gallons, 1,000,000 cubic feet or 100,000 m3 capacity.			
Register Resolution	.01 gallons/imperial gallons, .001 cubic foot, or .0001 m3.			
Conformance to Standards	Meets the requirements of NSF 61, Annex G and NSF 372. Exceeds the most current revision of AWWA Standard C-715.			
Materials	External housing – Thermal plastic Flowtube – Polyphenylene sulfide alloy		Electrode – Silver/silver chloride Register cover – Tempered glass	

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iPERL Smart Water Meter

Electromagnetic Flow Measurement System





DIMENSIONS AND NET WEIGHTS

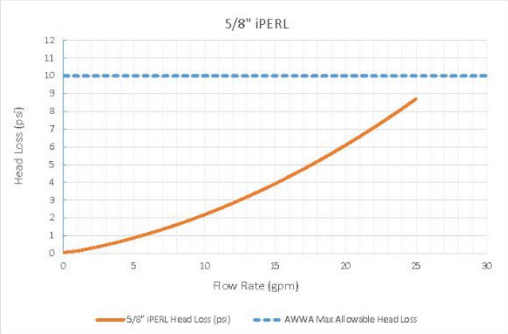
Meter Size	A	B	C	Spud Ends	NPSM Thread Size	Width	Net Weight
5/8″ (DN 15 mm)	7-1/2″ (190 mm)	6-1/10″ (155mm)	1-3/4″ (44 mm)	5/8″ (15 mm)	3/4″ (20 mm)	4-1/2″ (114 mm)	3.1 lb. (1.4 kg)
5/8″ x 3/4″ (DN 15mm x 20 mm)	7-1/2″ (190 mm)	6-1/10″ (155mm)	1-3/4″ (44 mm)	3/4″ (20 mm)	1″ (25 mm)	4-1/2″ (114 mm)	3.1 lb. (1.4 kg)
3/4″Short (DN 20 mm)	7-1/2″ (190 mm)	6-1/10″ (155 mm)	1-3/4″ (44 mm)	3/4″ (20 mm)	1″ (25 mm)	4-1/2″ (114 mm)	3.1 lb. (1.4 kg)
3/4″ (DN 20 mm)	9″ (229 mm)	6-1/10″ (155 mm)	1-3/4″ (44 mm)	3/4″ (20 mm)	1″ (25 mm)	4-1/2″ (114 mm)	3.2 lb. (1.45 kg)
1″ (DN 25 mm)	10-3/4″ (273 mm)	6-1/10″ (155 mm)	1-3/4″ (44 mm)	1″ (25 mm)	1-1/4″ (32 mm)	4-1/2″ (114 mm)	3.3 lb. (1.5 kg)

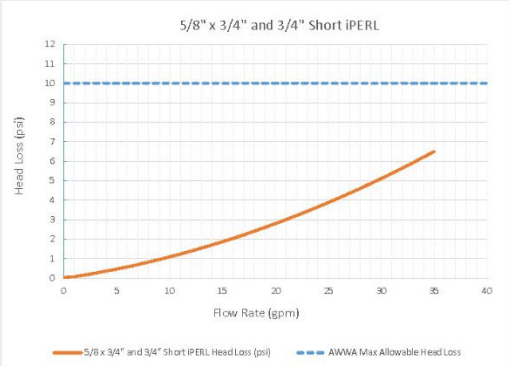
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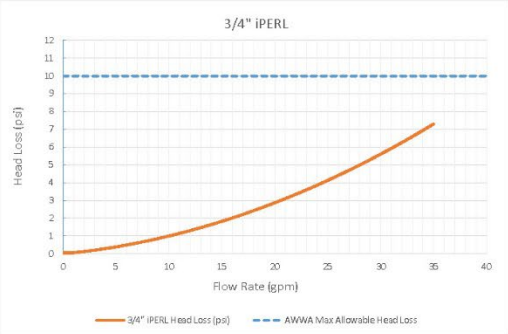
iPERL Smart Water Meter

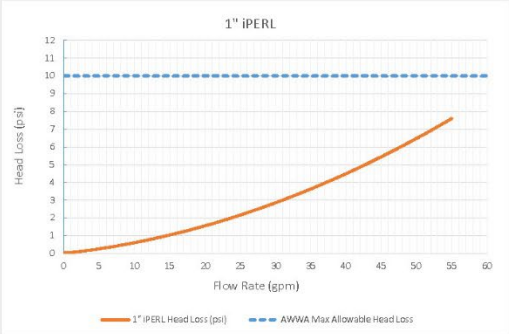
Electromagnetic Flow Measurement System

Head Loss Curves









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Cordonel

xylem
Let's Solve Water

DATA SHEET
WDS-10063-02



Cordonel®

Ultrasonic C&I water meter

Cordonel® is an innovative ultrasonic C&I water meter with patented flow technology that measures low- to high-volume flow with unmatched accuracy. Equipped with pressure and temperature sensing, alarms, and data storage, it fills a critical need in commercial, industrial, and irrigation markets.

FEATURES

- Advanced U0D0 capability - zero straight pipe requirements
- Installation in horizontal and vertical pipe orientations
- LCD for consumption, flow, temperature, pressure (optional) and status information
- NFC wireless interface for readout of the last volume reading
- Optional pulse output with programmable weights and widths

BENEFITS

- Maintenance free
- No accuracy degradation
- Secure encrypted data transmission
- 20-year warranty in normal operating conditions

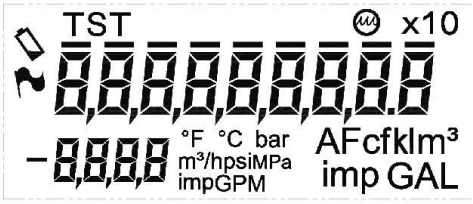
Superior accuracy

Cordonel's patented flow rate technology ensures that every drop of water passes through one of its three individual measuring paths. Cordonel's horizontal and vertical pipe orientations means no straight upstream and downstream pipe requirements; measurements are accurate even behind a 90-degree bend. With solid-state ultrasonic engineering and reliable readings over its 20-year battery life, Cordonel delivers accuracy unmatched in the industry.

Applications

- Residential, Irrigation, and Commercial
- AMI and AMR output
- Hot water measurement up to 122 °F
- High, low, and variable flow monitoring
- Leak detection
- Pulse output capability
- District Metering Area analysis

Display



Alarm is triggered

Low battery level is reached

TST System is set up in hydraulic testing mode

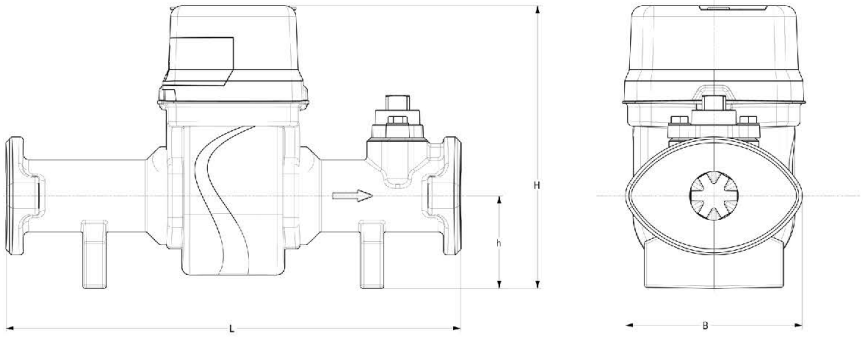
⊕⊖ Indicates positive or negative flow

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Cordonel®

Ultrasonic C&I water meter



DIMENSIONS AND NET WEIGHTS

Size	L (lay length)	B (width)	H (Height)	h (Height to pipe axis)	Net Weight (kg)
1.5″ (DN 40 mm)	13″ 330mm	6.22″ 158mm	9.6″ 244mm	3.15″ 80mm	11.4
2″ (DN 50 mm)	10″ 254mm	6.22″ 158mm	9.6″ 244mm	3.15″ 80mm	10.8
	15.25″ 387mm	6.22″ 158mm	9.6″ 244mm	3.15″ 80mm	12.6
	17″ 432mm	6.22″ 158mm	9.6″ 244mm	3.15″ 80mm	13.1
3″ (DN 80 mm)	17″ 432mm	7.87″ 200mm	10.8″ 275mm	3.74″ 95mm	23.8
	19″ 483mm	7.87″ 200mm	10.8″ 275mm	3.74″ 95mm	24.9
4″ (DN 100 mm)	20″ 508mm	9″ 229mm	12.2″ 310mm	4.37″ 111mm	34.0
	23″ 584mm	9″ 229mm	12.2″ 310mm	4.37″ 111mm	36.2

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Cordonel®

Ultrasonic C&I water meter

SPECIFICATIONS

Service	Measurement of potable and reclaim water.			
Temperature Ranges	Water operating: Ambient air operating: Storage air:	33 °F (0.55 °C) to 122 °F (50 °C) -22 °F (-30 °C) to 140 °F (60 °C) -30 °F (-34.4 °C) to 158 °F (70 °C)		
Starting Flow	1-1/2" (DN 40 mm) size: 0.05 gpm (0.012 m3/h)	2" (DN 50 mm) size: 0.05 gpm (0.012 m3/h)	3" (DN 80 mm) size: 0.15 gpm (0.033 m3/h)	4" (DN 100 mm) size: 0.24 gpm (0.054 m3/h)
Low Flow (±3%)	1-1/2" (DN 40 mm) size: 0.18 gpm (0.04 m3/hr)	2" (DN 50 mm) size: 0.18 gpm (0.04 m3/hr)	3" (DN 80 mm) size: 0.44 gpm (0.10 m3/hr)	4" (DN 100 mm) size: 0.70 gpm (0.16m3/hr)
Normal Water Operating Flow Range (±1.5%)	1-1/2" (DN 40 mm) size: 0.26 to 340 gpm (0.06 to 40 m3/hr)	2" (DN 50 mm) size: 0.26 to 395 gpm (0.06 to 40 m3/hr)	3" (DN 80 mm) size: 0.70 to 880 gpm (0.16 to 100 m3/hr)	4" (DN 100 mm) size: 1.14 to 1365 gpm (0.26 to 160 m3/hr)
Maximum Continuous Operation	1-1/2" (DN 40 mm) size: 220 gpm (50 m3/hr)	2" (DN 50 mm) size: 220 gpm (50 m3/hr)	3" (DN 80 mm) size: 550 gpm (125 m3/hr)	4" (DN 100 mm) size: 880 gpm (200 m3/hr)
Maximum Intermittent Operation	1-1/2" (DN 40 mm) size: 340 gpm (78 m3/hr)	2" (DN 50 mm) size: 395 gpm (90 m3/hr)	3" (DN 80 mm) size: 880 gpm (200 m3/hr)	4" (DN 100 mm) size: 1365 gpm (310 m3/hr)
Maximum Operating Pressure	200 PSI (13.8 bar)			
Register	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft./ Cu. Mtr. / Imp. Gal. / Acre Ft.) Programmable		AMR/AMI reading and pulse outputs Guaranteed 20-year battery life	
Access Port	Stainless steel with optional NPT riser			
Flange Connections	U.S. ANSI B16.1 / AWWA Class 125			
Materials	Maincase – Epoxy coated ductile iron Measuring Transducers – High grade polymer Inner tube - High grade polymer; stainless steel		Battery – Lithium Gaskets – EPDM Other materials - Glass fiber reinforced polymer; stainless steel	

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Cordonel®

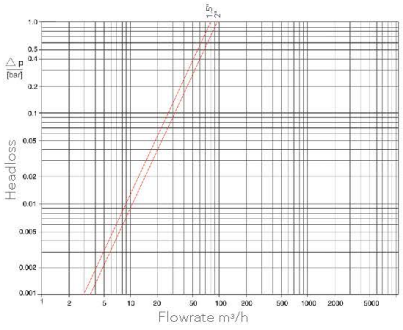
Ultrasonic C&I water meter

Smart Alarms

Cordonel meters have many configurable smart alarms designed to protect your utility's investment, enhance customer service, and monitor/optimize distribution systems. These alarms include:

- Empty Pipe
  Detects the absence of water in the flow tube and sends an alert. Allows you to identify main breaks downstream and water shortages for quicker resolution to ensure water availability. This alarm can also indicate the water meter has been removed from service, or notify you of potential tamper.
- Customer Leak
  Detect continual consumption of water over a period of time to indicate downstream leaks. This protects your utility, infrastructure and customers through alarm notifications that can reduce water loss and leak adjustment costs.
- Low Battery
  Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter or valve is running low.
- Reverse Flow
  Keep untreated water from re-entering your distribution system and deter tampering attempts through an alarm triggered when reverse flow is detected at the meter.
- High Flow
  Detect broken pipes and reduce property damage through an alert triggered by the detection of excessive flow rates.
- Pressure
  Get alerted when water pressure exceeds or falls below the pressure threshold to prevent potential disruptions of service. Standard in 3″ and above; optional in 1.5″ and 2″ sizes.
- Temperature
  Get alerted when water temperature exceeds or falls below the temperature threshold so you can take action to better protect your meter and water network assets.

Typical Headloss Curve



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WATER METER WITH REMOTE DISCONNECT

Ally

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Let's Solve Water

DATA SHEET
WDS-10026-05



ally® Smart Water Meter

Electromagnetic Flow Measurement with Remote Management Valve

The Sensus ally® water meter features an integrated 3-state valve, temperature and pressure sensors and alarms. ally has no moving parts and is based on our innovative electromagnetic flow measurement technology.

FEATURES

- 5/8", 5/8" x 3/4", 3/4", and 1" sizes available in potable and reclaim versions
- Starts registering flow as low as 0.03 gpm (0.007 m³/hr)
- Can be installed horizontally, vertically or diagonally
- Compatible with current Sensus AMI systems

BENEFITS

- Control three states of water flow remotely (on, off, reduced)
- Detect leaks to save money and conserve water
- Monitor pressure conditions and temperature conditions
- Smart alarms including empty pipe, high flow, reverse flow, low and high pressure and temperature, customer leak and tamper

Industry Leading Performance

The patented measurement technology of the ally meter provides continuous and enhanced accuracy ranges at both low and high flows and perpetual accuracy over the life of the product. Accuracy is not effected by various flow conditions, disturbances, or particulates in the water system. The ally meter has a 15-year life cycle, along with a 15-year accuracy warranty.

Construction

The ally is an integrated unit that incorporates an electronic register, 3-state valve, temperature sensor, pressure sensor, and a measuring device encased in an external housing. The measuring device is comprised of a composite alloy flowtube with externally-threaded spud ends.

Electronic Register

The high resolution 9-digit electronic register was designed to eliminate dirt and moisture contamination in pit settings. The tempered glass register cover displays readings with the AMI digits highlighted. Direction of flow, rate of flow and units of measure are also easily readable on the register display. The ally register features programmable AMI resolution and unit of measure, and integral customer data logging of up to120 days. The display includes battery life, empty pipe, forward/ reverse flow, flow rate, leak and tamper, valve, pressure, and temperature indicators. Additionally, the register displays temperature and pressure values, valve state, and active and recent alarms.

Shut-Off Valve

The shut-off valve has 3 states–open, closed, and reduced flow. Reduced flow mode allows 1-2 GPM on average for life sustaining applications (based on 65 psig). The stainless steel ball valve is self cleaning and remains functional due to automatic seat exercising. The ally meter also contains a proprietary actuator to operate the valve.

Tamperproof

The integrated construction of the ally meter prevents removal of the register to obtain free water. The magnetic tamper and low field alarms will both indicate any attempt to tamper with the magnetic field of the ally meter. The meter communication alarm indicates a possible cut cable.

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ally® Smart Water Meter

Electromagnetic Flow Measurement with 3-State Valve

Smart Alarms

ally meters have many configurable smart alarms designed to protect your utility's investment, enhance customer service, and monitor/optimize distribution systems. These alarms include:

- Empty Pipe
  Detects the absence of water in the flow tube and sends an alert. Allows you to identify main breaks downstream and water shortages for quicker resolution to ensure water availability. This alarm can also indicate the water meter has been removed from service, or notify you of potential tamper.
- Tampering
  Detect magnetic interference to reduce apparent water losses and protect against unauthorized activities.
- Customer Leak
  Detect continual consumption of water over a period of time to indicate downstream leaks. This protects your utility, infrastructure and customers through alarm notifications that can reduce water loss and leak adjustment costs.
- Low Battery
  Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter or valve is running low.
- Reverse Flow
  Keep untreated water from re-entering your distribution system and deter tampering attempts through an alarm triggered when reverse flow is detected at the meter.
- High Flow
  Detect broken pipes and reduce property damage through an alert triggered by the detection of excessive flow rates.
- Pressure
  Get alerted when water pressure exceeds or falls below the pressure threshold to prevent potential disruptions of service.
- Temperature
  Get alerted when water temperature exceeds or falls below the temperature threshold so you can take action to better protect your meter and water network assets.

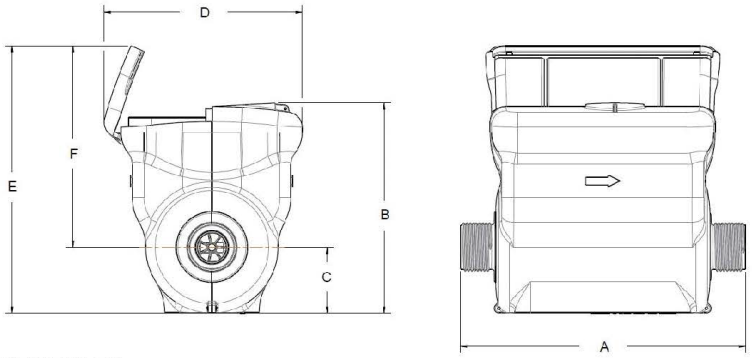
SPECIFICATIONS

Service	Measurement of potable and reclaim water. 0-100% humidity. Fully submersible. IP68+ rated.			
Temperature Ranges	Water operating: Ambient air operating: Storage air:	33 °F (0.55 °C) to 80 °F (26.7 °C) -22 °F (-30 °C) to 140 °F (60 °C) -30 °F (-34.4 °C) to 158 °F (70 °C)		
Starting flow	5/8" (DN 15 mm) size: 0.03 gpm (0.007 m^3h)	5/8" x 3/4" (DN 15x20 mm) size: 0.03 gpm (0.007 m^3h)	3/4" (DN 20 mm) size: 0.03 gpm (0.007 m^3h)	1" (DN 25 mm) size: 0.11 gpm (0.025 m3/h)
Low flow range (±3%)	5/8" (DN 15 mm) size: >0.10 gpm (0.025 m^3/hr) to <0.18 gpm (0.041 m^3/hr)	5/8" x 3/4" (DN 15x20 mm) size: >0.10 gpm (0.025 m^3/hr) to <0.18 gpm (0.041 m^3/hr)	3/4" (DN 20 mm) size: >0.10 gpm (0.025 m^3/hr) to <0.18 gpm (0.041 m^3/hr)	1" (DN 25 mm) size: >0.3 gpm (0.068 m3/h) to <0.4 gpm (0.09 m3/hr)
Normal operating flow range (±1.5%)	5/8" (DN 15 mm) size: 0.18 to 25 gpm (0.04 to 5.7 m^3/hr)	5/8" x 3/4" (DN 15x20 mm) size: 0.18 to 35 gpm (0.04 to 8.0 m^3/hr)	3/4" (DN 20 mm) size: 0.18 to 35 gpm (0.04 to 8.0 m^3/hr)	1" (DN 25 mm) size: 0.4 to 55 gpm (0.09 to 12.5 m3/hr)
Sensor Accuracy	Pressure Sensor: ± 1.25% full scale for water temp 35-100 °F (0-200psi) Temperature Sensor: ± 2.00% full scale for water temp 35-100 °F (0-200psi)			
Maximum operating pressure	200 psi (13.8 bar)			
Measurement technology	Solid state electromagnetic flow			
Register	Hermetically sealed, 9-digit programmable electronic register			
Capacity	10,000,000 gallons, 1,000,000 cubic feet or 100,000 m^3 capacity.			
Register Resolution	.01 gallons/imperial gallons, .001 cubic foot, or .0001 m^3			
Conformance to Standards	Meets the requirements of NSF 61, Annex G and NSF 372. Exceeds the most current revision of AWWA Standard C-715.			
Materials	External housing – Thermal plastic Flowtube – Polyphenylene sulfide polymer		Electrode – Silver/silver chloride Register cover – Tempered glass	

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ally® Smart Water Meter

Electromagnetic Flow Measurement with 3-State Valve



DIMENSIONS AND NET WEIGHTS

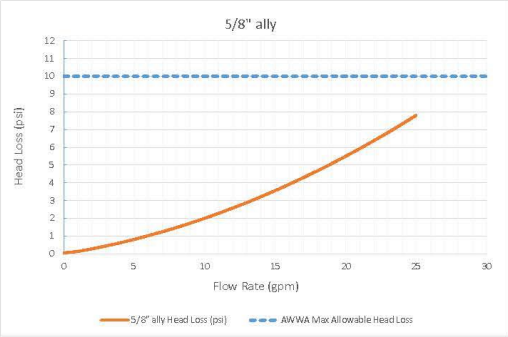
Size	A	B	C	D	E	F	Spud Ends	NPSM Thread Size	Width	Net Weight
5/8" (DN 15 mm)	7-1/2" (190 mm)	5-1/2" (140 mm)	1-3/4" (44 mm)	5-1/2" (140 mm)	7" (178 mm)	5-1/4" (133 mm)	5/8" (15 mm)	3/4" (20 mm)	4-3/4" (121 mm)	3.3 lb. (1.5 kg)
5/8" x 3/4" (DN 15 mm x 20 mm)	7-1/2" (190 mm)	5-1/2" (140 mm)	1-3/4" (44 mm)	5-1/2" (140 mm)	7" (178 mm)	5-1/4" (133 mm)	3/4" (20 mm)	1" (25 mm)	4-3/4" (121 mm)	3.3 lb. (1.5 kg)
3/4" Short (DN 20 mm)	7-1/2" (190 mm)	5-1/2" (140 mm)	1-3/4" (44 mm)	5-1/2" (140 mm)	7" (178 mm)	5-1/4" (133 mm)	3/4" (20 mm)	1" (25 mm)	4-3/4" (121 mm)	3.3 lb. (1.5 kg)
3/4" (DN 20 mm)	9" (229 mm)	5-1/2" (140 mm)	1-3/4" (44 mm)	5-1/2" (140 mm)	7" (178 mm)	5-1/4" (133 mm)	3/4" (20 mm)	1" (25 mm)	4-3/4" (121 mm)	3.4 lb. (1.54 kg)
1" (DN 25 mm)	10-3/4" (273 mm)	5-1/2" (140 mm)	1-3/4" (44 mm)	5-1/2" (140 mm)	7" (178 mm)	5-1/4" (133 mm)	1" (25 mm)	1-1/4" (32 mm)	4-3/4" (121 mm)	3.8 lb. (1.72 kg)

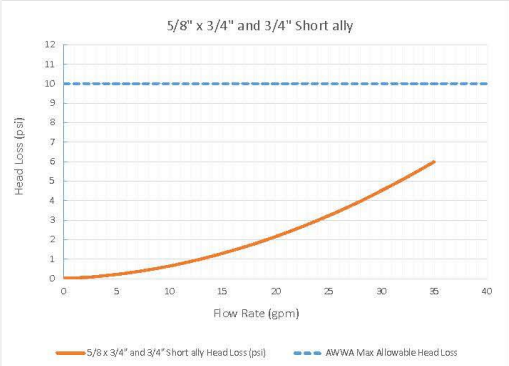
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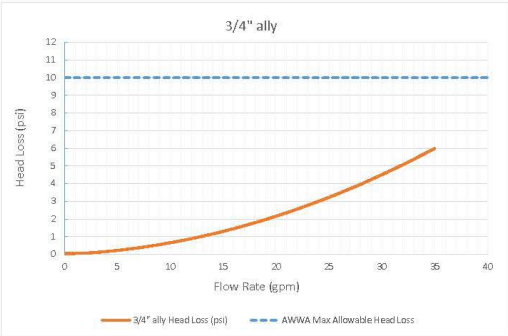
ally® Smart Water Meter

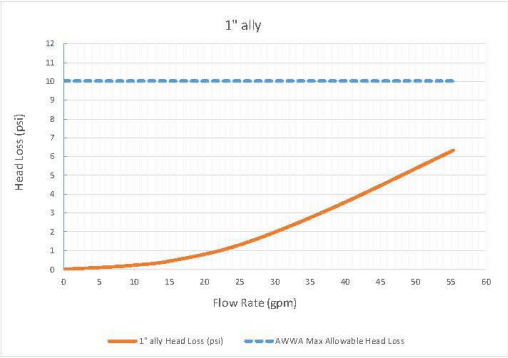
Electromagnetic Flow Measurement with 3-State Valve

Head Loss Curves









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DATA SHEET
EDS-10009-04



Stratus IQ™ Electricity Meter

Taking the Grid to Next-level Smart

Building upon the best-in-class Stratus® metering platform, the Stratus IQ combines grid edge intelligence with precise energy measurement into one powerful package. This meter provides utilities with the data visibility and control needed to quickly adapt to a rapidly evolving smart grid.

FEATURES

- Six energies and six demands
- Four quadrant metering
- By-phase energy reporting (12S/25S)
- Thirty-two load profile channels in four data sets
- Theft, tilt, and tamper detection
- Arc and loss of neutral detection
- Sag and swell logging
- Harmonics reporting (THD & TDD)
- Enhanced outage recording
- Persistent real-time clock maintains time for 24 hours following outage
- Optional optical port

BENEFITS

- C&I power in a residential meter
- Software defined metrology for future flexibility
- Flexible two-way communication via the FlexNet® Communication Network
- FCC approved communication over unshared, primary use licensed spectrum

Software-defined metrology

With the ability to make metrology adjustments over-the-air, utilities are prepared for whatever the future holds.

C&I power in a residential meter

Four-quadrant metering is just the beginning. By simultaneously measuring real, apparent and reactive energy, the Stratus IQ gives utilities the competitive knowledge necessary to be more efficient in the generation and distribution of power.

Data is the name of the game

The Stratus IQ has 32 channels of load profile data in four data sets along with line-side and load-side voltage reporting. This insight gives utilities the concrete data needed to make educated decisions. No other meter on the market has this type of system visibility.

Details

- kWh, kVAh, kVARh energy measurements
- Demand and load profile with load limiting (current or demand)
- AES 256-bit encryption security
- C12.19 utility industry end device ANSI Tables
- Full net metering and primary metering
- 20-year Time-of-Use calendar
- Patented temperature detection
- Best-in-class power outage and restoration notification
- Voltage measurement and configurable alarm reporting
- Remote ZigBee, radio and metrology firmware download
- 1 Wh internal and display resolution

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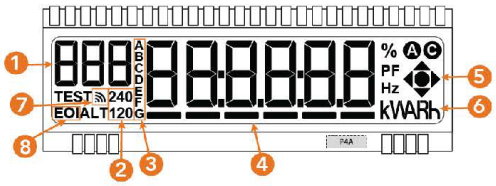
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Stratus IQ™

Electricity Meter

LCD display

The data display is composed of LCD segments arranged to display letters and digits. Typically, the total kilowatt-hours are displayed in whole numbers; the resolution may be selected at the time of order. You can control the number of digits displayed, the justification of the digits within the display, and the location of the decimal point.



Key: 1 = source list number, 2 = voltage, 3 = TOU indicators, 4 = data display and disk simulator, 5 = energy quadrant indicator, 6 = energy type, 7 = signal indicator, 8 = end of interval indicator

SPECIFICATIONS

Forms	1S, 2S, 3S, 4S, 12S, 25S, 1SRD, 2SRD, 12SRD, 25SRD, 2SCL320
Power Requirements	Voltage Rating: 120VAC and 240VAC Frequency: 60 Hz
Accuracy	Exceeds Accuracy Class 0.2 (ANSI C12.20-2015)
Burden	Power Supply 1.2W / 6.7VA @240VAC; 1.1W / 3.0VA @120VAC Current circuit per phase <0.01W
Device Type	FlexNet Device Type 96; Metrology Device Type 97, ZigBee Device Type 98
Model	Stratus IQ with FlexNet only: IDTB005, FCC ID: SDBIDTB005, IC: 2220A-IDTB005 Stratus IQ with FlexNet & Zigbee: IDTB006, FCC ID: SDBIDTB006, IC: 2220A-IDTB006
Remote Disconnect	Rating: 200A, 240 VAC, 60Hz, PF 0.75 lagging Endurance: Greater than 6000 cycles, 200A, 240 VAC, 60 Hz, PF 0.75 lagging Endurance: Greater than 30000 cycles at no load Overload: 50 OPS, 300A, 240 VAC, 60 Hz, PF 0.75 Current Withstand: Per ANSI C12.1: 7,000 A Peak (5,000 Amps rms) 240 VAC, 60 Hz, for 6 cycles with normal operation after exposure; 12,000 Amps rms for 4 cycles with fail safe conditions after exposure
Dimensions	6.95 in (17.65 cm) diameter; 5.06 in (12.86 cm) depth
Industry Standards	UL 2735 listed, ANSI C12.20 - 2015 (Class 0.2), ANSI C12.1 - 2014, ANSI C12.10 - 2011, ANSI C37.90.1 - 2002, FCC Part 15, Transient/Surge Suppression IEC 61000-4-4 - 2012 and IEEE C62.41.2 - 20002, Category B, Temperature Rise Specifications meets ANSI C12.1 Section 4.7.2.9, ANSI C12.18-R2006 (R2016).
Operating Environment	Temperature -40° to +85° C under the cover Humidity 0% to 95% non-condensing
Characteristic Data	Starting Current: 20mA (for CL200); 9mA (for CL20)
Hardware Options	ZigBee, Remote disconnect

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Honeywell A3

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DATA SHEET
EDS-11000-03



Honeywell A3 ALPHA® Meter

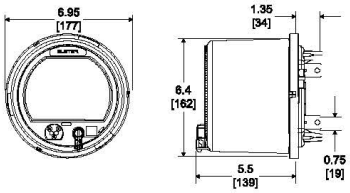
With Integrated FlexNet® SmartPoint® module

The Honeywell A3 ALPHA Meter brings advanced metering capabilities to commercial and industrial applications. The Sensus FlexNet Communication Network SmartPoint module is integrated into the A3 ALPHA providing secure and robust two-way communications capabilities. No special equipment is necessary because the SmartPoint module automatically establishes the communication path to the Sensus Base Station.

BENEFITS

- Robust two-way communication via FCC-approved FlexNet primary-use licensed spectrum network
- FlexNet communications network supports multiple applications
- Easy installation and connection
- Delivers data quickly and efficiently

DIAGRAMS



Approximate dimensions in inches [millimeters]

The data you need

Utilities today rely on big data to help make intelligent decisions about their energy needs. A3 ALPHA meters can collect six channels of load profile information (for example, kWh or kVARh) and up to 15 configurable snapshot registers delivering even more information. The SmartPoint module retrieves the data directly from the A3 ALPHA meter tables and transmits it over the secure FlexNet communications network.

No guessing required

The A3 ALPHA meter features a wide range voltage input. The meter may be used with any distribution voltage from 120 V to 480 V. The installer always has the meter with the correct voltage rating. The wide voltage range feature detects and operates accurately on the voltage applied.

The A3 ALPHA meter supports:

- kWh, kVARh, and kVAh bidirectional energy
- Demand
- Time-of-use (TOU)
- Power factor
- Instrumentation profiling (including quantities such as phase voltage)
- 6 channels load profile
- 15 snapshot registers
- Loss compensation
- 2-relay or 4-relay outputs and are fully programmable using Honeywell's meter support software
- History and event logs
- Voltage sag log
- Over-the-air (OTA) metrology firmware and configuration updates

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Honeywell A3 ALPHA® Meter

With Integrated FlexNet® SmartPoint™ module

OPTIONS

Service	2 wire	3 wire	3 wire	2 or 3 wire	3 wire	4 wire wye; 4 wire delta	3 wire delta; network	3 wire delta; network	4 wire wye; 4 wire delta	4 wire wye; 4 wire delta	3 or 4 wire delta, 4 wire wye; network	4 wire wye	3 or 4 wire delta, 4 wire wye; network
Class	200	200	320	20	20	20	200	320	200	320	20	20	20
Form	1S	2S	2S	3S	4S	9S	12S	12S	16S	16S	35S	36S	45S
Starting Current	100 mA	50 mA	80 mA	10 mA	5 mA	5 mA	50 mA	80 mA	50 mA	80 mA	5 mA	5 mA	5 mA

SPECIFICATIONS

Maximum Voltage/Current	Voltage: Continuous 528 VAC Current: Continuous at Class amperes; temporary (1 second) at 200% of meter maximum current
Voltage Range	Nameplate Nominal 120 V to 480 V Operating 96 V to 528 V
Surge Voltage Withstand	ANSI C62.41 6 kV at 1.2/50 µs, 10 strikes IEC 61000-4-4 4 kV, 2.5 kHz repetitive burst for 1 minute ANSI C12.1 insulation 2.5 kV, 60 Hz for 1 minute
Current Range	0 to Class amperes
Frequency Range	Nominal 50 Hz or 60 Hz ±5%
Operating Environment	Temperature: -40°C to +85°C (-40°F to 185°F) Humidity: 0% to 100% non-condensing
Power Supply Burden	Less than 4 W
Per Phase Current/Voltage Burden	Current: 0.1 milliohms typical at 25°C Voltage: .008 W at 120 V; 0.03 W at 240 V; 0.04 W at 480 V
Primary/Secondary Time Base	Primary: Power line frequency (50 Hz or 60 Hz) with selectable crystal oscillator. Secondary: Meets the ANSI limit of 0.02% using the 32.768 kHz crystal. Initial performance is expected to be equal to or better than ±55 seconds per month at room temperature.
Outage Carryover	6 hours at 25°C. Super capacitor rated at 0.1 Farads, 5.5 V. Battery included on all but A3D meters for additional carryover.
Communication Rates	Optical port: 300bps to 28,800 bps Remote port: 1,200 bps to 19,200 bps
Dimensions	Diameter: 17.70 cm (6.95 inches) Depth: 13.9 cm (5.5 inches)
Accuracy	Meets ANSI C12.20 for accuracy Typical accuracy within ±0.2%
Tamper Detection Options	If the meter is inverted, energy can be added to the total accumulation. The meter can be configured to alarm on reverse energy. FlexNet module-based vibration sensor.
Complies with Industry Standards	ANSI C12.1, ANSI C12.10, ANSI C12.18, ANSI C12.19, ANSI C12.20, FCC Part 15, UL 2735 Listed

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Honeywell
THE POWER OF CONNECTED

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Aclara I-210+c

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DATA SHEET
EDS-10002-05



Aclara I-210+c Electric Meter

With Integrated FlexNet® SmartPoint® Module

Sensus has added the power of the FlexNet Communications Network to the Aclara I-210+c electric meter. The I-210+c is equipped with an internal SmartPoint module (DT-20 or DT-105), providing utilities with a meter platform that is able to utilize the unparalleled performance of FlexNet–a real-world tested, smart grid network.

FEATURES

DT-20 & DT-105:

- Under cover, fully-rated 200 amp connect/disconnect switch
- Daily self reads
- On-demand meter readings and status reports
- Meter tamper detection
- UL 2735 certified for additional safety, durability and protection

DT-105:

- Time and date stamped event log
- Full meter programming and firmware updates over the air
- Zigbee-equipped
- Voltage sag and swell log

BENEFITS

- Flexible two-way communication via FlexNet network
- FlexNet communications network supports multiple applications
- FlexNet communications network is FCC approved for operation on an unshared primary-use licensed spectrum

Overview

The integrated DT-20 and DT-105 radio modules provide secure point-to-multipoint communications, reducing the number of access points required to capture and transmit data. With an extensive inventory of licensed spectrum, the network has the bandwidth to support multiple applications as well as future data requirements.

With the addition of the SmartPoint modules, the I-210+c can leverage the power of a robust network while using meter features such as time-of-use, load profile data, power quality information, and an optional remote connect/disconnect switch. By combining these two technologies, cities are able to evolve into smart cities.

Metrology

- kWh, kVARh and kVAh energy measurements with associated demand values
- ANSI C12.20 Accuracy Class 0.5% with typical accuracy better than 0.2%
- Full net metering
- Demand reading options include block or rolling max demands and cumulative demands
- Enhanced performance with four channels of ANSI C12.19 load profile data and up to 15 snapshots
- All applicable ANSI tables supported ensuring reliable and accurate information for utility billing and analysis
- Under cover remote connect/disconnect switch

OPTIONS

Service	2 wire	3 wire	3 wire	2 wire	3 wire	3 wire	3 wire	3 wire	3 wire	3 wire
Class	100	200	320	20	20	20	200	320	200	320
Form	1S	2S	2S	3S	3S	4S	12S	12S	25S	25S
Voltage Rating (VAC)	120	240	240	120	240	240	120/208	120/208	120/208	120/208
Remote Disconnect Option	Yes	Yes	No	No	No	No	Yes	No	Yes	No

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Aclara I-210+c Electric Meter

With Integrated FlexNet® SmartPoint™ Module

SPECIFICATIONS

Power Requirements	Voltage Rating: See Options chart Voltage Range: ± 20% of nominal voltage Frequency: 60 Hz or 50 Hz
Operating Environment	Temperature: -40°C to +85°C (-40°F to 185°F) Humidity: 0% to 95% non-condensing
Dimensions	Diameter: 17.63 cm (6.94 inches) Depth: 13.34 cm (5.25 inches)
Accuracy	Meets ANSI C12.20 for accuracy class 0.5 Typical accuracy within ±0.2%
Tamper Detection Options	If the meter is inverted, energy can be added to the total accumulation. It can also alarm on inversion. The meter can be configured to alarm on reverse energy. FlexNet module-based vibration sensor.
Load Profile	Four channels of ANSI C12.19 load profile data. DT-20: up to 14 snapshots DT-105: up to 15 snapshots
Connect/ Disconnect Switch	Two pole, single throw, magnetically-latching. Rating: 200A, 240 Vac, 60 Hz Endurance: 5000 cycles @ 200A, 240 Vac, 60 Hz, 30,000 mechanical operations
Characteristic Data	Starting Watts: 12W @ 240V, 6W @ 120V Typical Watts Loss: 0.7 Watts
LCD Display	Six digit liquid crystal display User-definable scroll list Power flow and mechanical disk emulator kWh display with segment check option
Complies with Industry Standards	ANSI C12.1 ANSI C12.10 ANSI C12.20 ANSI C37.90.1 FCC Part 15 UL 2735 Listed

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Aclara kV2c

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DATA SHEET
EDS-10004-03



Aclara kV2c Electric Meter

Commercial & Industrial Meter with FlexNet® SmartPoint® Module

Aclara's premier commercial and industrial kV2c meter family has become even more powerful. The Gen 5 kV2c meter is now internally equipped with a Sensus SmartPoint module, giving utilities the power and performance of the FlexNet Communications Network coupled with revenue grade metering functionality and advanced power quality monitoring.

FEATURES

- Full meter programming and firmware updates over the air
- Customize advanced metering options including kWh, kVArh & kVAh
- 4-quadrant measurements
- Voltage and Current THD per phase, TDD (Total Demand Distortion), Distortion Power Factor, Distortion kVA, and Distortion kVAh
- Per phase AC instrumentation (amps, volts, and frequency)
- Programmable diagnostics for voltage imbalance, distortion, current imbalance, reversed polarity, high neutral current.
- Tamper detection tools and installation verification capabilities to automatically catch errors, wiring changes, tampering, and billing issues
- Voltage sag and swell log

BENEFITS

- Flexible two-way communication via FlexNet network
- FlexNet communications network supports multiple applications
- FlexNet communications network is FCC approved for operation on an unshared primary-use licensed spectrum

Overview

The kV2c meter moves beyond revenue metering to real time instrumentation, true power quality monitoring and real cost of service measurements. Whether you are metering the simplest energy rate or collecting critical quality of service and load analysis information on a polyphase or a single phase circuit, there is a kV2c meter configuration to meet your needs.

The Aclara kV2c meter family is one of the most widely accepted ANSI® commercial and industrial meters with over two million units deployed in the field since its introduction. The robust revenue-grade meter design is based on Aclara's cutting edge technology that provides high accuracy and reliability.

Metrology

- kWh, kVARh and kVAh energy measurements with associated demand values
- ANSI C12.20 Accuracy Class 0.2% with typical accuracy better than 0.2%
- Programmable sag and swell monitor that logs voltage sag and swell duration down to one cycle
- Time and date stamped meter event log
- Robust revenue-grade watt-hour and demand meter with advanced recording options.
- Versatile programming softswitches allowing the selection of advanced functionality such as expanded recording features, time of use, load profile and power quality measures.
- Powerful functional upgrades provide 8-channel 64 kb, 20-channel 192 kB, or 20-channel 384 kB recording for voltage, current, real and reactive energy, apparent energy, distortion kVAh, THD and TDD.

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Aclara kV2c Electric Meter

Commercial & Industrial Meter with FlexNet® SmartPoint®

OPTIONS

Service	1ϕ, 2 wire	1ϕ, 3 wire	1ϕ, 2 wire	1ϕ, 3 wire	3ϕ, 4 wire, Wye or Δ	Network or 3ϕ, 3 wire Δ	3ϕ, 4 wire, Wye or Δ	3ϕ, 4 wire, Wye	Network or 3ϕ, 3 wire Δ
Class	200	200 & 320	20	20	20	200 & 320	200 & 320	20	20
Form	1S	2S	3S	4S	9S	12S	16S	36S	45S

An optional form 16S, class 100, 120 volt meter with 3ϕ RCDC switch is available.
Form 36S replaces form 6S; form 45S replaces form 5S and form 35S meters.
Form 9S and 16S meters support Aclara's Fitzall™ feature.

SPECIFICATIONS

Power Requirements	Voltage Rating: 120 to 480 volts Voltage Range: ±20% of voltage rating Frequency: 50 or 60 Hz
Operating Environment	Temperature: -40°C to +85°C (-40°F to 185°F) Humidity: 0% to 95% non-condensing
Dimensions	Diameter: 17.63 cm (6.94 inches) Depth: 15.24 cm (6 inches)
Model	FLEXKV2C
FCC ID	SDBFLEXKV2C
ID	2220A-FLEXKV2C
Mechanical Design	Durable one piece Lexan™ cover Rugged single action reset lever Magnetic switch activates alternates Alternate and Site Genie displays
Accuracy	Meets ANSI C12.20 for accuracy class 0.2 Typical accuracy better than ±0.2%
Tamper Detection Options	Received kWh detection (optional) Demand reset counter FlexNet on-board vibration sensor
Load Profile	Up to 20 channels of ANSI C12.19 load profile data. Up to 15 snapshots
Connect/Disconnect Switch	Available on Form 16S, Class 100, 120 – 240, 50/60 Hz meter only Three pole, single throw, magnetically-latching Endurance: 5000 cycles @ 100A, 240Vac, 50/60 Hz, 30,000 mechanical operations
Characteristic Data	Starting current: Typically less than 0.1 amps for SC meters; 0.05 amps for TR meters Typical Watts Loss: < 0.8W @ 120V, Phase A; < 0.1W @ 120V, Phase B & C
LCD Display	Six digit liquid crystal display User-definable scroll list; 75 items total Power flow and mechanical disk emulator kWh display with segment check option

METER FUNCTIONALITY

Meter Features	Bi-directional real and reactive energy and demands Q-hour meter Real time pricing (CPP) TOU Meter Up to 20 channel load profile recorder Power quality meter (THD, TDD and distortion power) Current and Voltage recorder Transformer/Line loss and accuracy compensation Real time multifunction instrument Four quadrant meter Individual phase metering
Logging	Security Log Voltage sag and swell log Meter events log

Some functionality may require additional soft switches.

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COMMUNICATION

M400B2

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DATA SHEET
ADS-10009-02



FlexNet M400B2 Base Station

Compact Point-to-Multipoint Base Station

The Sensus FlexNet® M400B2 Base Station offers a strategic communications option for public service providers with endpoints deployed in remote or densely populated areas.

The efficient transceiver can transmit and receive in a 200kHz band of spectrum. 200kHz enables more dedicated channels, resulting in higher network capacity, allowing more granular data and more channels of data. And the Sensus FlexNet communication network delivers double the transmit power of competitive systems over primary-use licensed spectrum – ensuring reliability for mission critical applications.

The tower-based architecture enables reliable communication of status and usage information with fewer access points than other network architectures. These compact, efficient base stations fit in space-constrained environments and require no air conditioning.

FEATURES

- GPS receiver for time synchronization
- Duplexer for single antenna
- IP-addressable power supply with hot-swap capability
- 8-hour battery backup
- Alarms and reporting capability
- Backhaul via Ethernet/IP
- Heated battery for cold weather environments
- Modular construction for easy serviceability

APPLICATIONS

- Two-way Advanced Meter Infrastructure (AMI)
- Distribution Automation (DA)
- Demand Response (DR)
- Home Area Networks (HAN)
- Sensus VantagePoint® Lighting Control

Licensed Radio Spectrum

In North America, FCC/IC protected primary-use spectrum avoids competition with other wireless services, interference from other radio devices and the risk of being taken over by emergency service providers.

Fewer Access Points

Our point-to-multipoint architecture directly connects base stations to endpoints over large geographic areas – greatly reducing the number of network backhaul connections as well as O&M costs.

Resilient Network Design

Sensus Base Stations continue to provide real time data during outages and emergencies because of eight hour plus battery backup – enabling better workforce management and faster service restoration.

Small Footprint

Flexible pole or wall-mounting options enable strategic deployment with a discreet appearance.

Industry Leading Security

Sensus has achieved GE/Wurldtech™ Achilles® communications certification for critical infrastructure security against cyber threats.

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FlexNet® M400B2 Base Station

Compact Point-to-Multipoint Base Station



PROPERTIES

Receive bandwidth	200 KHz
Transceivers	Single
Spectrum	Licensed 900 MHz PCS/MAS
Duplexing	Single transmit Sixteen receivers - simultaneous/dedicated
Applications	Single
Expandability	No
Compatibility	SNMP
FlexNet	Requires RNI 3.x or newer

ENCLOSURES - OUTDOOR - POLE/WALL MOUNT

Height	22" (55.9 cm)
Width x Depth	22" (55.9 cm) x 10.5" (26.7 cm)
Capacity	One transceiver
Temperature	-40° to +122° F (-40° to +50° C)
Voltage	120 VAC
Battery backup	8 hours
NEMA rating	4
Air conditioned	No

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NON-METERING EDGE DEVICES

Smart Gateway

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DATA SHEET
ADS-10003-06

Sensus Smart Gateway



Public service providers need timely data to make critical and prompt decisions for their communities. With the Sensus Smart Gateway, a battery-powered sensor interface, utilities can connect to a variety of applications in remote locations where there is no power or land-based communications available. Leveraging the FlexNet® communication network, the user interface application empowers utilites to remotely monitor pressures, temperatures, levels, and switches. Alarms can be transmitted and forwarded to utility systems or individuals allowing for expedient resolution. Additionally, data accumulation can be analyzed to develop new insights into operational conditions.

With two (2) 4-20 mA analog inputs and two (2) Form A digital inputs, the number of possible applications makes the Smart Gateway a flexible, powerful and cost effective device to gather information previously too difficult to obtain.

FEATURES

- Battery Powered
- FlexNet enabled
- Two (2) 4-20 mA analog inputs and two (2) Form A digital inputs per unit
- 15 minute data sampling reported six (6) times per day
- IP66 packaging for outdoor applications
- Mounting options for pipe or wall mounting
- Intrinsically Safe Class1 Div2
- Maintenance free for the life of the product
- Interfaces with other system infrastructure such as CMEP and Multispeak
- One (1) Year Warranty

Benefits

- Improves operational performance of the system.
- Enables proactive and preventative maintenance.
- Enables quick resolution of equipment failures.
- Decreases the need to deploy field crews.
- Maximizes return on investment.
- Supplements the existing SCADA system.
- Leverages the existing FlexNet network.
- No additional power line infrastructure is necessary.
- Prevents theft and tampering, and improves safety by communicating user-configured alarms.
- Facilitates flexible and scalable installation through the system, including remote locations.
- Cost-effective option for extensive data accumulation.

Applications

- Pressure readings
- Customer complaints resolution
- Hydraulic modeling
- Pressure modeling
- Fire flow testing
- Pressure reducing infrastructure monitoring
- Level measurements
- Tank/Aquifer/Reservoir monitoring
- Lift station monitoring
- Overflow monitoring
- Rain gauges
- Temperature readings
- Water and Gas Quality
- Security
- Vault doors
- Gates
- Valve positions
- Data Tracking
- Modeling
- Event responses
- Leak Detection

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Smart Gateway

SPECIFICATIONS

Physical Characteristics	6.4" W x 4"H x 2.8"D	
Weight	1.5 lbs	
Color	Grey	
Frequency Range	900-950 MHz, 8000 channels x 6.25 kHz steps	
Modulation	Proprietary Frequency Band	
Power	D Cell Lithium Thionyl Chloride battery	
Operating Temperature	-22 °F to +185 °F/-30 °C to 85 °C	
Installation Environment	The Smart Gateway is designed for installation on a wall or pipe where it is not subject to water submergence	
Installation Kits	Pipe/Wall-Mount Wall-Mount Only Optional Multi-Cable	
Wiring Requirements	See Installation Guide	
Installation Kits	Pipe/Wall-Mount Wall-Mount Only Optional Multi-Cable	
Wiring Requirements	See Installation Guide	
Approvals	United States FCC Title 47 CFR: Part 24D Part 101C, Part 15	Canada Industry Canada (IC) RS-134 RSS-119

SENSOR SPECIFICATIONS

Utility Type	Pressure Accuracy	Temperature Accuracy	Water Level Accuracy	Output Settling Time	Operating Voltage	Current Draw	Zero Offset
Water	+/- 1.5% PSI	+/-1 °F	+/-2"	≤ 200 milliseconds	≥ 12.5 volts	2-Wire: ≤ 30 mA 3-Wire: ≤ 100 mA	≤ 6% mA
Gas	+/- .25% PSI	N/A	N/A				

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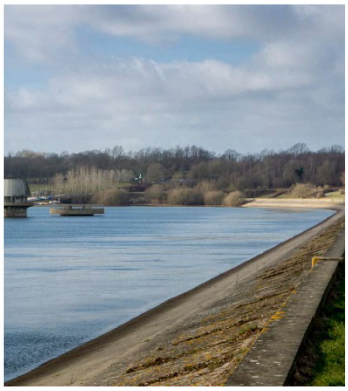
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Water Level Monitor

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Let's Solve Water

DATA SHEET
WDS-10038-03



Sensus Water Level Monitoring Kit

Remotely monitor and trend water levels in reservoirs, basins and more

Water level is a key piece of information for a water utility. With the Sensus Water Level Monitoring Kit combined with the Sensus® Smart Gateway Sensor Interface, utilities can now remotely monitor and trend the level of almost any water surface in their system.

Knowing the water level at the raw water intake can help an operator forecast and prepare for changes in treatment. Tracking seasonal raw water levels can identify low inflows upstream and help predict future water availability. And at other locations – such as reservoirs, holding tanks, open channels and treatment basins – water level can indicate the health of pumps and other mechanical features.

Leveraging the FlexNet® communication network through the Sensus® Smart Gateway Sensor Interface, this ultrasonic, non-contact solution empowers utilities to monitor the level of water at rivers, reservoirs, open channels, basins, and other remote water facilities. Customizable alarms can be set to alert utilities about high and low water levels. Alarms can be transmitted and forwarded to utility systems or individuals allowing for proactive resolution. Additionally, water level data can be accumulated and analyzed to develop new insights into the operation of the water system.

The Sensus Water Level Monitoring Kit transmits valuable level data through the Sensus Smart Gateway Sensor Interface. With two 4-20 mA analog inputs and two Form A digital inputs, the Sensus Smart Gateway Sensor Interface can cover multiple applications at a single site.

FEATURES

- Transmits data via the Sensus® Smart Gateway Sensor Interface
- Non-contact, ultrasonic level transmitter mounts above the wastewater level
- One year warranty

BENEFITS

- Provides remote liquid level status for key water surfaces
- Enables proactive operation and maintenance
- Decreases need to deploy field crews
- Leverages the FlexNet® communication network
- Improves system operation by communicating configurable alarms
- Provides a cost-effective option for data accumulation

KIT CONTENTS

- Transducer
- Transmitter
- Handheld Programmer

SPECIFICATIONS

Ultrasonic Transducer	
Range	1-ft to 50-ft total depth
Weight	2.8 lb, PVDF copolymer enclosure
Process Connection	1-inch NPT
Cable	30-ft
Transmitter Device	
Enclosure	NEMA 4X
Power Supply	100-230 VAC, 50/60 Hz
Display	Backlit Multi-field LCD
Output	4-20 mA
Sensor Handheld Programmer	Multi-key device for system setup

Note: The Sensus® Smart Gateway and the Sensus Field Tools handheld are both sold separately.

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Sensus Pressure Sensor

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Let's Solve Water

DATA SHEET
WDS-10042-03



Sensus Pressure Sensor Kit

Remotely monitor and profile your water system pressure

Water pressure is vital in the operation of a water system. The Sensus Pressure Sensor Kit combines with the Sensus® Smart Gateway Sensor Interface to provide utilities knowledge of water pressure at almost any point in their water system.

Knowing the water pressure at multiple locations can help determine where a main break has occurred, where a pump or valve has malfunctioned and where a system may have issues delivering water for fire protection and for public consumption.

Leveraging the FlexNet® communication network through the Sensus® Smart Gateway Sensor Interface, the pressure sensor kit empowers utilities to monitor pressure remotely. Customizable alarms can be set to alert utilities of high or low pressure conditions at remote locations. Alarms can be transmitted and forwarded to utility systems or individuals allowing for proactive resolution. Additionally, pressure data can be accumulated to develop new insights into the operation of the water system.

The Sensus Pressure Sensor Kit transmits pressure data through the Sensus Smart Gateway Sensor Interface. With two 4-20 mA analog inputs and two Form A digital inputs, the Sensus Smart Gateway Sensor Interface can cover multiple applications at a single site.

FEATURES

- Powered remotely by the Sensus® Smart Gateway Sensor Interface
- 316 Stainless Steel Construction
- Valve for sensor isolation
- One year warranty

BENEFITS

- Enables proactive water system operation and maintenance
- Decreases the need to deploy field crews
- Leverages the FlexNet® communication network
- Deploys quickly in a ¼-NPT threaded connection in pipe, valves, and other water system components
- Improves system operation by communicating configurable alarms
- Provides a cost-effective option for extensive data accumulation

SPECIFICATIONS

Pressure Range	0 to 300 psi
Accuracy	± 0.25%
Sensor Enclosure	IP68 (Suitable for Submersion)
Sensor Construction	316L Stainless Steel
Output	4-20 mA (2-wire)
Cable Length	25-ft
Ball Valve	316 Stainless Steel FNPT x FNPT, Locking Lever, ¼ -in pipe size
Pipe Nipple	316 Stainless Steel, Schedule 80, ¼-in pipe size x 2-in long

Note: The Sensus® Smart Gateway and the Sensus Field Tools handheld are both sold separately.

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Permalog+

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Let's Solve Water

DATA SHEET
WDS-10060-01

Permalog+

FlexNet with Permalog+ Solution



Tighten up your distribution system and conserve millions of gallons of water – and just as many dollars in lost revenue – with the combination of two industry-leading solutions: FlexNet® and Permalog®+.

Reduce liability

Permalog+ uses sound waves to monitor distribution lines and localize leaks. Sensors activate overnight, listening to the distribution system when ambient noise is at its lowest, then report pipeline conditions back to the utility via the Sensus FlexNet communication network and SmartPoint® modules. Once flow conditions are reported back through the network, you can analyze the data to determine if a leak condition exists. Service crews can quickly investigate and make repairs before they become costly problems or prominent stories in the news.

Installation is fast and easy

Permalog+ sensors magnetically attach to gate valves throughout your distribution system. This allows them to be mounted temporarily or permanently. Permalog+ is an economical way to proactively address current and potential leak conditions. With as little as five data loggers per mile, far less than any other leak detection system, Permalog+ is a fast deployment.

FlexNet flexibility and dependability

FlexNet is the recognized AMI leader. The Sensus high power SmartPoint transceivers broadcast on FCC-protected, primary use frequencies, giving utilities the option to integrate a wide range of solutions without sacrificing network performance. Walk-by, drive-by or fixed base, FlexNet provides water companies with a comprehensive, evolutionary, two-way operations solution.

Acoustic monitoring application

The Sensus Analytics Acoustic Monitoring application combines the Permalog technology with the Sensus FlexNet® communication network and Sensus SmartPoints® to deliver a powerful, remote leak detection solution. Sensus SmartPoint modules carry real-time data via FlexNet to Sensus Analytics where flow conditions are reported. The Acoustic Monitoring application automatically analyzes the data and sends an alert if a leak condition exists.

FEATURES

- Remote leak detection
- Temporary or permanent mounting
- Seamless integration with FlexNet

BENEFITS

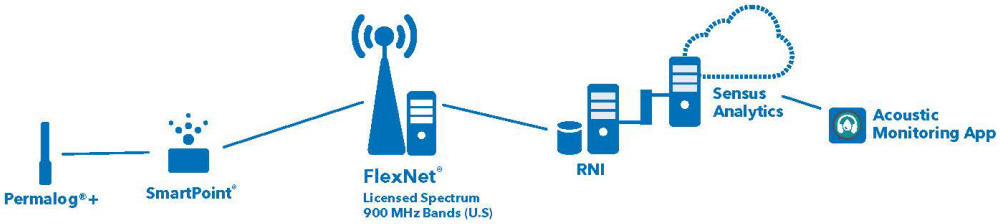
- Proactively detects leaks and other flow problems
- Conserves millions of gallons of water
- Discovers and regains lost revenue
- Leverages the flexibility and reliability of the Sensus FlexNet communication network
- Reduces liability
- Provides flexible and quick deployment options in permanent, semi-permanent or survey applications
- Uses a non-invasive method with no detrimental effects on water supply

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Permalog+

FlexNet with Permalog+ Solution



SPECIFICATIONS

Construction	Thermoplastic and Stainless Steel
Dimensions	7.25" x 2.0"
Weight	1.54 lbs.
Data storage	29 days
Batteries	Lithium/replaceable
Warranty	3 years (Fluid Conservation Systems)

Permalog® is a registered trademark of Fluid Conservation Systems, a Division of Palmer Environmental

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Entek Load Controle Module (LCM)

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DATA SHEET
EDS-10005-01



EnTek Load Control Module

Reliably Reduce Load on Demand

The EnTek FC340A Load Control Module (LCM) is an advanced demand response switch that helps electric utilities quickly and reliably shed load during peak periods. This multi-function switch technology, jointly developed by Sensus and EnTek, controls power to energy-intensive appliances, such as HVAC units, pool pumps, water heaters and irrigation pumps. It's an ideal solution to reduce load for both residential and commercial operations.

FEATURES

- Multiple control functions
- Event randomization
- Event duty cycle
- Load sensing
- Cold load pickup
- Installation supported with FieldLogic™ connected handheld
- AES 256 encryption

BENEFITS

- Easy installation with multiple options
- Two-way, secure communications over FlexNet
- Peak load reduction
- Power fail alarm indicates when devices have been disconnected
- Over-the-air firmware downloads to keep equipment up to date
- 480V 10A option to support irrigation solutions

Direct Communication

Featuring a two-watt radio, this LCM has the power to talk directly to base station collectors over the FlexNet® communication network–eliminating any need for pairing to another meter or device. With two-way, direct communications, operators get confirmation that the module is handling the load control event as expected. The FC340A LCM radio module has been optimized for improved RF performance.

Multiple deployment options

The EnTek FC340A was purposely designed to give utilities options to simplify installation. For new deployments, it can be installed as a complete unit. However, it also has the ability to replace previously deployed LCMs by simply performing a "door swap." This unique adaptation works on several of the most commonly deployed LCMs installed over the last 20+ years–saving utilities time and money.

It also includes a wide variety of load controls depending upon the application. Operators can choose immediate, random start and timed operations. It supports three active channels with up to two 30 Amp relays and two 5 Amp relays.

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EnTek Load Control Module

Reliably Reduce Load on Demand

Specifications

Model	EnTek FC340A	
Relays	High Current (Optional)	30A 240 VAC / 25A 277 VAC
	Medium Current	5A 120 VAC
Power Supply	Standard	90-276 VAC 50/60Hz
	Low Voltage	24 VAC
	Irrigation	480VAC 60Hz
Operating Environment	Temperature	-40°C to +75°C
	Temporary excursions to +85°C	
Industry Standards	FCC part 15, UL 916, CSA C22.2 No. 205	

FlexNet Communications

Transmit Power	2W
Frequency	900 MHz, primary licensed
Encryption	AES 256

Enclosure

Dimensions	7.5" H x 6" W x 3" D (approx.)
Construction	High Impact Polycarbonate UV resistant Optional internal junction box and separate padlock seals

EnTek FC340A LCM Models

HAN Device TypeID	Device Model	Voltage Rating	Product Info	Relay Control 1	Relay Control 2	Relay Control 3
43	FC340A-F-LC-R-J-S-D	120/240	F 2 5A 120V 2 30A 240V	R1 5A 120V	R2 5A 120V	R3/R4 30A 240V
44	FC340A-F-LC-R-J-S-B	120/240	F 2 5A 120V 1 30A 240V	R1 5A 120V	R2 5A 120V	R3 30A 240V
45	FC340A-F-LC-R-J-I-D	480	F 2 5A 120V 2 10A 480V	R1 5A 120V	R2 5A 120V	R3/R4 10A 480V
46	FC340A-F-LC-R-J-I-B	480	F 2 5A 120V 1 10A 480 V	R1 5A 120V	R2 5A 120V	R3 10A 480V

EnTek FC340A LCM Door Swap

HAN Device TypeID	Device Model	Voltage Rating	Product Info	Relay Control 1	Relay Control 2	Relay Control 3
47	FC340A-F-DS-R	12 VAC 2.5VA	Door Swap with relays	R1 5A 120V	R2 5A 120V	R3/R4 30A 240V
48	FC340A-F-DS-J	12 VAC 2.5 VA	Door swap with Jumpers (support relays in base)	R1 5A 120V	R2 5A 120V	R3/R4 30A 240V

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DATA SHEET
DDS-10000-10



Sensus RTM II / RTM II+

Intelligent, secure, and fast grid communications

The Sensus Remote Telemetry Module™ II and II+ (RTM II/RTM II+) enable remote monitoring and control of smart SCADA field devices using the Sensus FlexNet® communication network or cellular communication networks. Both units are intelligently engineered to optimize communication traffic and provide real-time information to utilities.

These intelligent devices act as a communication gateway–easily connecting SCADA and Distribution Automation (DA) field devices via serial or Ethernet interfaces. By incorporating industry standard Modbus and DNP3/IEEE 1815 SCADA communication protocols, both devices are easily integrated with third-party Intelligent Electronic Devices and SCADA systems giving you end-to-end interoperability.

FEATURES

- Remote two-way monitoring and control over FlexNet and/or 4G/LTE cellular data networks
- Interoperability: Supports over a hundred different IED integrations
- Highly secure, encrypted SCADA interface

BENEFITS

- Real-time status of IEDs with configurable reporting, events, and alarms
- Communicates with 100+ IED application types from all leading manufacturers
- Communicates via standard RS-232 serial connection, RS-485 isolated serial connection, or Ethernet connection with IEDs
- Simple and easy installation with plug-and-play integration kits for most popular IEDs, including specific device point maps/profiles

Applications

The units are ideally suited for smart grid distribution automation applications requiring interoperability with critical assets such as reclosers, capacitor banks, distribution switches, faulted circuit indicators, voltage regulators, distributed generation, load control, and distribution substations. Similarly, the RTM II/RTM II+ can also integrate other intelligent SCADA controls to support water and gas automation applications.

- FlexNet® Model: Communicates using primary-use licensed spectrum over the Sensus FlexNet communication network. The units can be installed on any FlexNet system that is configured to support the AutomationControl™ application platform.
- Cellular Model: Communicates over the AT&T® 4G/LTE or Verizon™ 4G/LTE cellular data networks. The units are configured to support AutomationControl and can be installed anywhere in the United States where AT&T or Verizon service is available, including their roaming partners.

Communication

Communication is initiated in three ways:

- Automatic reporting upon digital and analog changes
- Configurable time-scheduled reports
- On-demand reporting through AutomationControl or the utility SCADA system

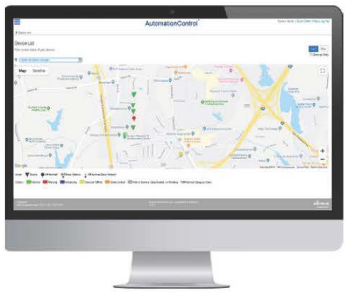
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Sensus RTM II / RTM II+

Intelligent, secure, and fast grid communications

AutomationControl



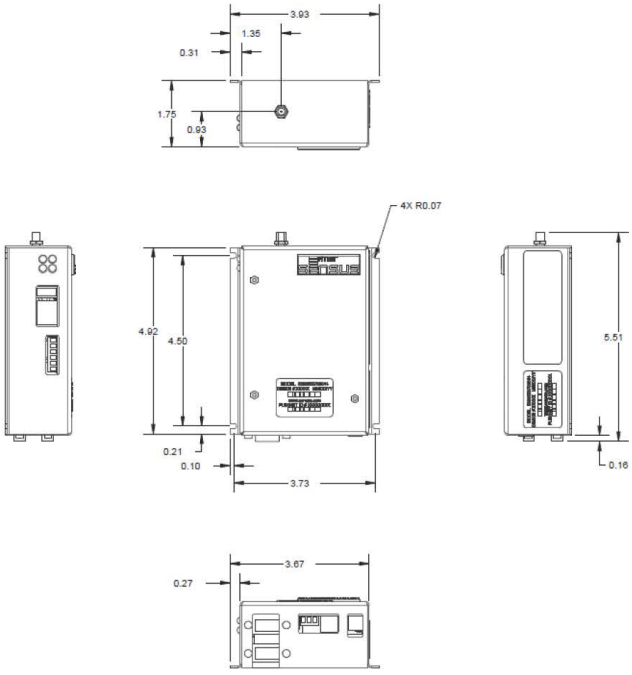
AutomationControl is a browser-based Software as a Service solution for real-time management of distribution and SCADA system assets. Through this platform, utilities can easily control intelligent communication devices giving operators the insight needed to effectively manage critical infrastructure.

Distribution, operations, maintenance and management personnel all appreciate the intuitive AutomationControl interface. The dashboard provides a real-time snapshot of system performance–turning low-level insight into high-level consumption. The interface visualizes your system, devices and network to simplify what was once complex.

To leverage automation, users can program autonomous control actions and commands to occur in the field. Intelligent field devices are then able to take action without having to wait for a utility operator to issue a command. If an action fails for any reason, the system has been designed to send notifications to a set of users.

With AutomationControl, utilities are able to securely control any distribution asset and deploy a deeper level of intelligence down to the edge.

The drawings below show an RTM II+ FlexNet model. All measurements are in inches with a +/- 0.01 inch tolerance.



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Sensus RTM II / RTM II+

Intelligent, secure, and fast grid communications

PRODUCT

Product	Model	Radio	Frequency	RS-232 Serial Port	RS-485 Serial Port	Ethernet
RTM II	539.65.537.00045	FlexNet	900 MHz	✓		
	539.65.537.00051	AT&T cellular 4G (LTE) with 3G fallback	700/850/1700/1900 MHz	✓		
	539.65.537.00058	Verizon cellular 4G (LTE)	700/850/1700/1900 MHz	✓		
RTM II+	539.65.537.00044	FlexNet	900 MHz	✓	✓	✓
	539.65.537.00050	AT&T cellular 4G (LTE) with 3G fallback	700/850/1700/1900 MHz	✓	✓	✓
	539.65.537.00057	Verizon cellular 4G (LTE)	700/850/1700/1900 MHz	✓	✓	✓

COMMUNICATIONS

General	Two-way communication	All communications are acknowledged for reliability
	Protocols	DNP and Modbus
Serial Ports	Local Configuration Port	USB 2.0 compliant; supports Microsoft® Windows® based local configuration and test program
	SCADA Communication Port	RS-232, DB-9 female or terminal block; supports DNP or Modbus
	Pass Through	RS-232, DB-9 female; IED maintenance port connection
	Isolated Serial Connection	RS-485
Ethernet Port (RTM II+ only)	SCADA Communication Port	RJ-45 female; supports DNP or Modbus
FlexNet network	Transmit power	2W
	Frequency	900 MHz, primary licensed
	Antenna	SMA antenna connector
Cellular network	AT&T	4G/LTE with 3G fallback
	Verizon	4G/LTE
	Transmit power	3G: 2W (GSM), 0.25W (WCDMA) 4G: 0.2W (LTE)
	Frequency	3G: 800/1900 MHz 4G: 700/850/1700/1900 MHz
	Antennas	2 SMA antenna connectors (Main and Diversity)

PROCESSOR

32 bit microcontroller running at 72 MHz
8 MB non-volatile Flash memory
32 MB SDRAM

ENVIRONMENTAL DATA

Operating temperature	FlexNet: -40° to 185°F (-40° to 85°C) Cellular: -40° to 158°F (-40° to 70°C)
Humidity	0% to 95% non-condensing
Radiated emissions	FCC 47 CFR Part 15B and ICES-003

ENCLOSURE

Intrusion rating	NEMA 1R or IP 20
Mounting	Integrated mounting flanges
Construction	Gray steel
Dimensions	See attached drawings

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T866 MicroRTU

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DATA SHEET
DDS-10002-12



Sensus T866 MicroRTU

Reliable Management of Distribution Sensors and Controllers

The Sensus T866 MicroRTU monitors, controls, and operates remote equipment and sensors to help utilities realize the benefits of automation. By reading both digital and analog inputs of connected equipment, the T866 turns a simple sensor into a robust intelligent monitoring solution. The only limitation is your imagination.

FEATURES

- Multiple communication options: FlexNet communication network or 4G/LTE cellular data networks
- Provides status monitoring of eight digital inputs and six analog inputs; six digital outputs are available for controlling equipment
- Operating parameters are locally and remotely configurable
- Battery backup for outage conditions
- Automatic battery test for reporting low

BENEFITS

- Monitoring, controlling, and remote configuration of distribution assets
- Line voltage monitoring provides visibility into under and over voltage conditions, as well as momentary and continuing power outages
- Enables automation routines for power restoration
- Native integration with utility SCADA systems
- Real-time analog reporting with remote configurable reporting logic

Applications

Event-driven actions are based on rules defined by the operator. Real world use-cases demonstrate improved customer service, safety, and positive environmental impacts. Examples include:

- Automating the on/off switch of a generator during power outages
- Detecting reverse power flow from DERs and operating upstream reclosers for isolation
- Closing a natural gas valve when methane is detected
- Turning on a water pump when a tank is empty

The T866 reports events based on user-defined trigger times and can be queried for status on demand. It easily integrates with third-party SCADA software giving you end-to-end interoperability.

Communication

There are two models available. Each features an integrated two-way radio that is suited for applications requiring critical asset interoperability.

- FlexNet®: Communicates using primary-use licensed spectrum over the Sensus FlexNet communication network
- Cellular: Communicates over the AT&T® 4G/LTE or Verizon™ 4G/LTE cellular data networks

Reporting methods

- Automatic report upon status or analog changes
- Interval based time-scheduled reports configurable to the minute
- On-demand updates through AutomationControl™ and/or a utility SCADA system

Remote Configuration, Control, and User Notification

- Displays status and performs remotely configurable control operations
- Automates daily routines with easily configurable alarms, ranges, and reports
- Notifications based on user-specified conditions

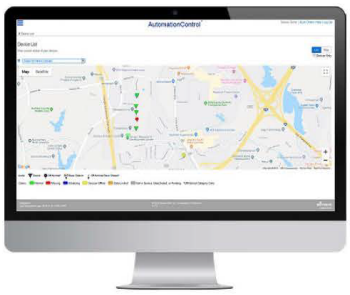
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Sensus T866 MicroRTU

Reliable Management of Distribution Sensors and Controllers

AutomationControl



AutomationControl is a browser-based Software as a Service solution for real-time management of distribution and SCADA system assets. Through this platform, utilities can easily control intelligent communication devices giving operators the insight needed to effectively manage critical infrastructure.

Distribution, operations, maintenance and management personnel all appreciate the intuitive AutomationControl interface. The dashboard provides a real-time snapshot of system performance–turning low-level insight into high-level consumption. The interface visualizes your system, devices and network to simplify what was once complex.

To leverage automation, users can program autonomous control actions and commands to occur in the field. Intelligent field devices are then able to take action without having to wait for a utility operator to issue a command. If an action fails for any reason, the system has been designed to send notifications to a set of users.

With AutomationControl, utilities are able to securely control any distribution asset and deploy a deeper level of intelligence down to the edge.

MODELS

Model	Radio	Frequency
539.65.537.00046	FlexNet	900 MHz
539.65.537.00052	AT&T cellular 4G (LTE with 3G fallback	700/850/1700/1900 MHz
539.65.537.00059	Verizon cellular 4G (LTE)	700/850/1700/1900 MHz

COMMUNICATIONS

General	Two-way communication	All communications are acknowledged for reliability
FlexNet network	Transmit power	2W
	Frequency	900 MHz, primary licensed
	Antenna	Phantom 3.0 dBi
Cellular network	AT&T	4G/LTE with 3G fallback
	Verizon	4G/LTE
	Transmit power	3G: 2W (GSM), 0.25W (WCDMA) 4G: 0.2W (LTE)
	Frequency	3G: 800/1900 MHz 4G: 700/850/1700/1900 MHz
	Antennas	• 3G/4G Multi-Band 3.0 dBi (transmitter and receiver) • Ultra Wide Band 5.0 dBi internal diversity (receiver only)
Local configuration port		USB 2.0 compliant

OPERATING POWER

General	120 VAC: 100-135 VAC 60 Hz
Fuse	250 V, 500 mA, Slow-Blow
Battery	12volt @ 5 amp hour non-spillable, sealed, lead-acid 5 year expected life with automatic charger
Battery fuse	250 V, 2.5 A, Slow-Blow

ENCLOSURE

Intrusion rating	NEMA 6R, IP 67 (International)
Construction	Fiberglass reinforced polyester
Mounting	Integrated mounting plate. An optional external mounting plate is available for purchase from Sensus.
Security	Hinged door with padlocking capability
Access	2 Conduit compatible cable entry holes
Weight	10.3 lb
Dimensions	See drawings on final page

ENVIRONMENTAL DATA

Operating temperature	FlexNet: -40° to 185°F (-40° to 85°C) Cellular: -40° to 158°F (-40° to 70°C)
Radiated emissions	FCC 47 CFR Part 15B and ICES-003

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Sensus T866 MicroRTU

Reliable Management of Distribution Sensors and Controllers

POINT COUNT

Digital Inputs	8, including 6 contact points and 2 AC voltage detects (present/absent)
Analog Inputs	6, including 4 transducer inputs and 1 dedicated temperature input
AC voltage monitor	1
Digital Outputs	6
Battery Monitor	1

ANALOG INPUTS

- 4 Configurable analog inputs
- +12VDC, 200mA output is provided for powering analog sensors
- Software selectable input ranges
  - 0 – 5 VDC
  - 1 – 10 VDC
  - 0 – 1 mA DC
  - 4 – 20 mA DC
  - 0 – 10 VAC, true RMS
  - 0 – 2 VAC, true RMS
- 12-bit A/D conversion
- 20 VAC control power monitoring input is standard on all AC powered models
  - Over and under voltage monitoring
  - Outage and power-on reporting
  - Configurable over and under voltage thresholds and trigger times

DIGITAL INPUTS

- 6 Dry contact (12VDC wetting voltage provided by MicroRTU)
- 2 - 120 VAC detects (present/absent)
- 4000 VDC Optical isolation
- Contact 'de-bounce' timer setpoint and trigger timers
- AC voltage monitor
- Reports the number of state changes per event
- Individually configurable as 5-digit counters and/or timers

DIGITAL OUTPUTS

- 6 Mechanical relays:
  - Two Form "C" 30A @ 240VAC; 20A @ 30VDC
  - Four Form "A" 8A @ 240 VAC; 8A @ 30VDC
- Momentary or continuous operation
- Local/remote switches enable/disable remote control and provide a local test mode

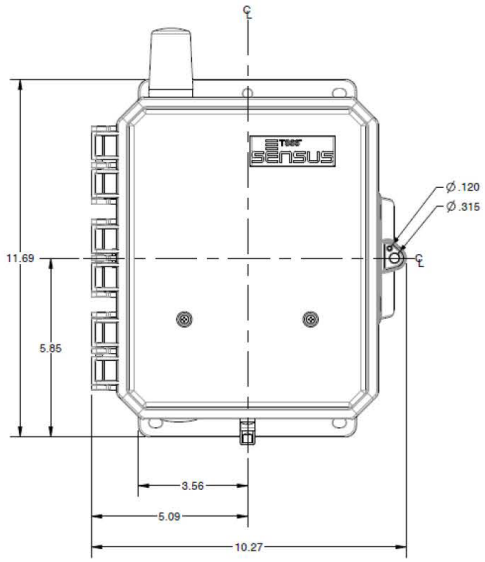
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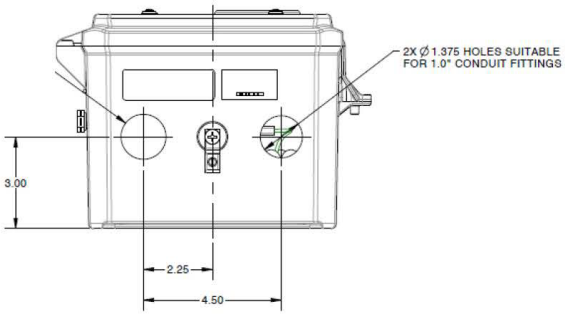
Sensus T866 MicroRTU

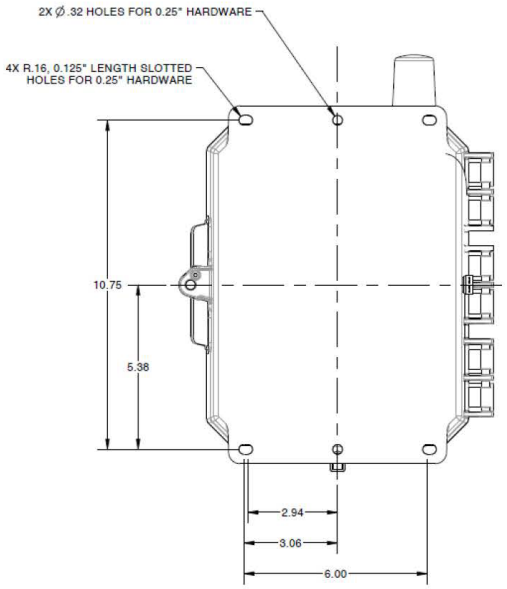
Reliable Management of Distribution Sensors and Controllers

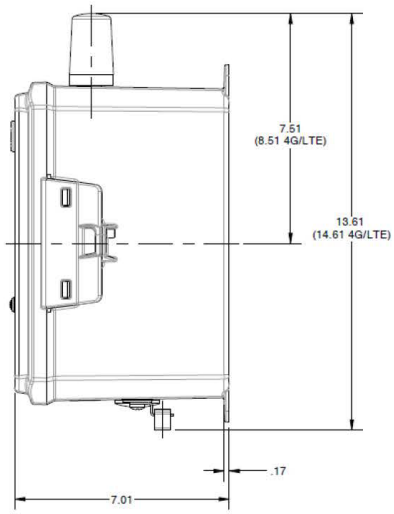
IP67 Enclosure Drawings

The T866 drawings show a FlexNet model.
All measurements are in inches with a +/- 0.01 inch tolerance.









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Xylem.com | Sensus.com

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OTHER MISCELLANEOUS HARDWARE

520M SmartPoint

xylem
Let's Solve Water

DATA SHEET
WDS-10024-04



SmartPoint 520M

Pit Set Module

The SmartPoint® 520M Pit Set Module is a radio transceiver that provides water utilities inbound and outbound access to water measurement and ancillary device diagnostics via radio signal. The SmartPoint 520M is designed for submersible, pit-set environments.

TouchCoupler Design

The SmartPoint 520M Module utilizes TouchCoupler, the patented Sensus inductive coupling communication platform, to interface with the encoded meter. With TouchCoupler, the SmartPoint 520M Module can connect to the meter using existing two wire AMR installations instead of requiring utilities to access the meter to install a new three-wire connection. This results in a fast, efficient and reliable connection at minimal cost.

BENEFITS

- Easily receives input from either walk-by/drive-by or fixed-base collection device
- Controls both deployment and lifetime operation costs
- Compact installation that saves time, space and money - without reducing system performance
- Delivers a fast, efficient and reliable connection at minimal cost
- Minimizes new infrastructure investment
- Enables effective leak detection

Operation

With its migratable, two-way communication ability, the M-Series SmartPoint functions as a walk-by/drive-by endpoint, fixed-base endpoint, or combination of the two. This flexibility increases utility data collection capabilities and streamlines operations. The SmartPoint 520M Module receives input from the meter register and remotely sends data to a walk-by/drive-by or fixed-base collection device. The SmartPoint 520M Module easily migrates from walk-by/drive-by to fixed base by simply installing a Base Station.

In walk-by/drive-by mode, the SmartPoint 520M Module collects data and awaits an activation signal from the Vehicle Gateway Basestation (VGB) or Hand-Held Device (HHD). Upon signal receipt, it transmits readings, the meter identification number and any alarms.

As a fixed-base endpoint, the SmartPoint 520M Module interacts with one or more strategically placed Base Stations located in the utility service area. Top of the hour readings and other diagnostics are instantly forwarded to the Regional Network Interface (RNI)™ at time of transmission. The FlexNet® communication network provides unmatched reliability by using expansive tower receiver coverage of metering end points, data/message redundancy, failover backup provisions and operation on FCC primary use (unshared) RF spectrum.

Powerful Transmission, Flexible Platform

The SmartPoint® 520M Pit Set Module offers several advantages that control both deployment and lifetime operation costs. Its powerful, industry-leading two watt transmitter broadcasts over large distances and minimizes collection infrastructure. And after the SmartPoint is installed, its migratable, two-way system platform can be updated without requiring personnel to visit each meter and/or inconveniencing customers.

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SmartPoint 520M

Pit Set Module

Additional Smartpoint 520M Module Features

The SmartPoint 520M Module obtains hourly readings and can monitor continuous flow over a programmable period of time, alerting the utility to leak conditions. In addition, the SmartPoint stores up to 840 consumption intervals (35 days of hourly consumption), providing the utility with the ability to extract detailed usage profiles for consumer information and dispute resolution. The SmartPoint also incorporates a two-port design, allowing the utility to connect multiple registers and ancillary devices (such as acoustic monitoring) to a single SmartPoint. This results in a compact installation that saves time, space and money - without reducing system performance.

SPECIFICATIONS

Service	Pit set installation interfacing the utility meter to the Sensus FlexNet communication network. Unit requires 1.75" diameter hole in pit lid; fits pit lid thicknesses up to 1.75"
Physical characteristics	Width: 4.43" x Height: 5.09" x Depth: 3"
Weight	1.0 lbs/16.0 oz
Color	Black
Frequency range	900 – 950 MHz, 8000 channels X 6.25 kHz steps
Modulation	Proprietary Narrow Band
Memory	Non-Volatile
Power	Lithium Thionyl Chloride batteries
Approvals	US: FCC CFR 47: Part 24D, Part 101C, Part 15 Licensed operation Canada: Industry Canada (IC) RSS-134, RSS-119
Operating temperature	- 22° F to +185° F - 30° C to + 85° C
Options	Dual or single port availability; TouchCoupler only, wired only
Installation environment	100% condensing, water submersible
Compatibility	TouchCoupler and Wired Version: Sensus Encoder Registers, Badger ADE water registers, Master Meter AccuLinx, and Hersey Translator (approved TR/PL Lead) Wired Version Only: Elster Encoder (Sensus protocol), Neptune ARB VI (ProRead), Hersey Translator, Zenner PMN Nitro 01, McCrometer flowcom FC100-00M, and Kamstrup flowIQ 2100 Refer to the 510M/520M SmartPoint® Module Water Meter and Ancillaries Compatibility Quick Guide for the latest compatibility information.
Warranty	20 years – Based on six transmissions per day. Refer to Sensus G-500 for warranty.

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Let's Solve Water

DATA SHEET
WDS-10006-08



iPERL Smart Water Meter

Electromagnetic Flow Measurement System

Sensus iPERL® smart water meters are designed to capture both lost water and lost revenue. The innovative magnetic technology delivers unmatched low flow registration and minimal pressure loss. With no moving parts, iPERL maintains its accuracy over a 20 year lifetime and is equipped with smart water alarms – delivering the intelligence you need to quickly resolve issues in the field.

FEATURES

- 5/8", 5/8" x 3/4", 3/4" and 1" sizes available in potable and reclaim versions
- 3/4" and 1" available in residential fire service (UL 327b)
- Starts registering flow as low as 0.03 gpm (0.007 m³/hr)
- Can be installed horizontally, vertically or diagonally
- Compatible with current Sensus AMI/AMR systems

BENEFITS

- Maximize investment with iPERL's electromagnetic technology, which delivers a 20-year accuracy warranty, with no required maintenance, and no loss in accuracy over 20 years
- Smart alarms detect issues such as leaks, reverse flow, empty pipe, etc.
- Improve low flow accuracy to drive additional revenue

Industry Leading Performance

The patented measurement technology of the iPERL water meter provides continuous and enhanced accuracy ranges at both low and high flows and perpetual accuracy over the life of the product. The iPERL meter has a 20-year accuracy warranty and a 20-year battery life guarantee. Over this 20-year lifespan, your iPERL will measure just as accurately as the day it was installed.

Construction

The iPERL meter body is available in two versions. The first version has a flow tube that is comprised entirely of composite polymer. The second version is comprised of lead-free bronze alloy with a composite polymer core. Both versions use the same thermal polymer shell with the same electronic register inside.

Electronic Register

The 9-digit hermetically-sealed electronic register with LCD display was designed to eliminate dirt, water, and moisture contamination in pit settings. The large, easy-to-read display includes AMI/AMR digits, direction of flow, units of measure, and empty pipe detection. The AMI/AMR digits and units of measure are fully programmable. The register also provides user configurable data logging.

Solid State Electromagnetic Technology

By avoiding the use of a mechanical measuring element inside the flow tube, metering performance is linear over the entire flow range – ensuring no reduction in accuracy at any flow rate over the life of the meter. The iPERL meter uses our patented remanent magnetic field technology – requiring far less energy and delivering superior accuracy.

Tamperproof

The integrated construction of the iPERL water meter prevents removal of the register to obtain free water. The magnetic tamper and low field alarms will both indicate any attempt to tamper with the magnetic field of the iPERL meter. The meter communication alarm indicates a possible cut cable.

Alarms

Quick resolution of field issues is made possible with smart water alarms including leak detection, reverse flow, empty pipe, magnetic tamper and low battery. When integrated with our FlexNet® communication network, remotely gathering and transmitting data has never been more reliable or profitable.

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iPERL Smart Water Meter

Electromagnetic Flow Measurement System

Smart Alarms

iPERL meters have many configurable smart alarms designed to protect your utility's investment, enhance customer service, and monitor/optimize distribution systems. These alarms include:

- Empty Pipe
  Detects the absence of water in the flow tube and sends an alert. Allows you to identify main breaks downstream and water shortages for quicker resolution to ensure water availability. This alarm can also indicate the water meter has been removed from service, or notify you of potential tamper.
- Tampering
  Detect magnetic interference to reduce apparent water losses and protect against unauthorized activities.
- Customer Leak
  Detect continual consumption of water over a period of time to indicate downstream leaks. This protects your utility, infrastructure and customers through alarm notifications that can reduce water loss and leak adjustment costs.
- Low Battery
  Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter or valve is running low.
- Reverse Flow
  Keep untreated water from re-entering your distribution system and deter tampering attempts through an alarm triggered when reverse flow is detected at the meter.

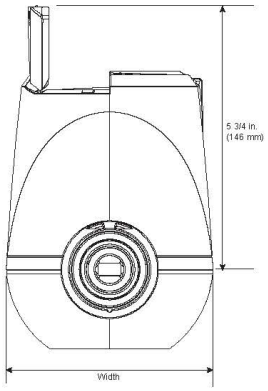
SPECIFICATIONS

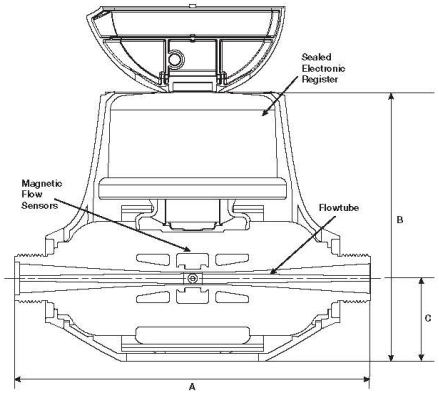
Service	Measurement of potable and reclaim water, and Residential Fire Service (UL 327b). 0-100% humidity. Fully submersible. IP68+ rated.			
Temperature Ranges	Water operating: Ambient air operating: Storage air:	33 °F (0.55 °C) to 80 °F (26.7 °C) -22 °F (-30 °C) to 140 °F (60 °C) -30 °F (-34.4 °C) to 158 °F (70 °C)		
Starting Flow	5/8" (DN 15 mm) size: 0.03 gpm (0.007 m3/h)	5/8" x 3/4" (DN 15x20 mm) size: 0.03 gpm (0.007 m3/h)	3/4" (DN 20 mm) size: 0.03 gpm (0.007 m3/h)	1" (DN 25 mm) size: 0.11 gpm (0.025 m3/h)
Low Flow Range (±3%)	5/8" (DN 15 mm) size: >0.10 gpm (0.025 m3/hr) to <0.18 gpm (0.041 m3/hr)	5/8" x 3/4" (DN 15 mm) size: >0.10 gpm (0.025 m3/hr) to <0.18 gpm (0.041 m3/hr)	3/4" (DN 20 mm) size: >0.10 gpm (0.025 m3/hr) to <0.18 gpm (0.041 m3/hr)	1" (DN 25 mm) size: >0.3 gpm (0.068 m3/hr) to <0.4 gpm (0.09 m3/hr)
Normal Water Operating Flow Range (±1.5%)	5/8" (DN 15 mm) size: 0.18 to 25 gpm (0.04 to 5.7 m3/hr)	5/8" x 3/4" (DN 15x20 mm) size: 0.18 to 35 gpm (0.04 to 8.0 m3/hr)	3/4" (DN 20 mm) size: 0.18 to 35 gpm (0.04 to 8.0 m3/hr)	1" (DN 25 mm) size: 0.4 to 55 gpm (0.09 to 12.5 m3/hr)
Maximum Operating Pressure	5/8", 5/8" x 3/4", and 3/4" size: 200 psi (13.8 bar) 1" size: 175 psi (12.1 bar)			
Measurement Technology	Solid state electromagnetic flow			
Register	Hermetically sealed, 9-digit programmable electronic register			
Capacity	10,000,000 gallons, 1,000,000 cubic feet or 100,000 m3 capacity			
Register Resolution	.01 gallons/imperial gallons, .001 cubic foot, or .0001 m3			
Conformance to Standards	Meets the requirements of NSF 61, Annex G and NSF 372. Exceeds the most current revision of AWWA Standard C-715.			
Materials	External housing – Thermal polymer Flowtube – Composite polymer or a bronze alloy flowtube with a composite polymer internal core		Electrode – Silver/silver chloride Register cover – Hermetically sealed glass	

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iPERL Smart Water Meter

Electromagnetic Flow Measurement System





DIMENSIONS AND NET WEIGHTS

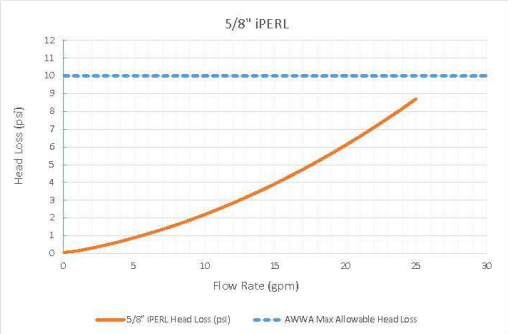
Meter Size	A	B	C	Spud Ends	NPSM Thread Size	Width	Net Weight
5/8" (DN 15 mm)	7-1/2" (190 mm)	6-1/10" (155mm)	1-3/4" (44 mm)	5/8" (15 mm)	3/4" (20 mm)	4-1/2" (114 mm)	3.1 lb. (1.4 kg)
5/8" x 3/4" (DN 15mm x 20 mm)	7-1/2" (190 mm)	6-1/10" (155mm)	1-3/4" (44 mm)	3/4" (20 mm)	1" (25 mm)	4-1/2" (114 mm)	3.1 lb. (1.4 kg)
3/4"Short (DN 20 mm)	7-1/2" (190 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	3/4" (20 mm)	1" (25 mm)	4-1/2" (114 mm)	3.1 lb. (1.4 kg)
3/4" (DN 20 mm)	9" (229 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	3/4" (20 mm)	1" (25 mm)	4-1/2" (114 mm)	3.2 lb. (1.45 kg)
1" (DN 25 mm)	10-3/4" (273 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	1" (25 mm)	1-1/4" (32 mm)	4-1/2" (114 mm)	3.3 lb. (1.5 kg)

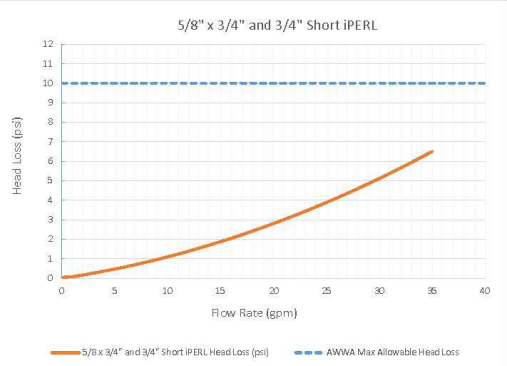
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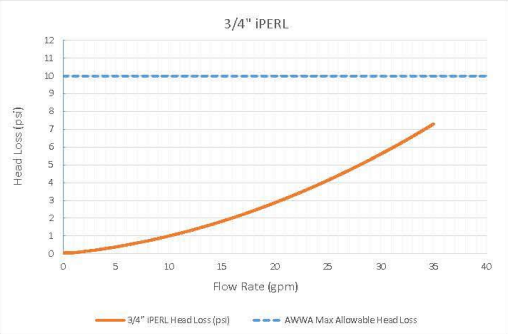
iPERL Smart Water Meter

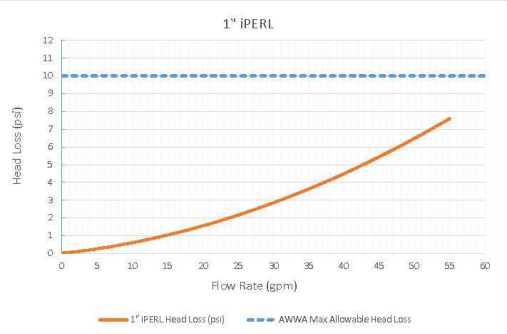
Electromagnetic Flow Measurement System

Head Loss Curves









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FIELD DEVICES

Sensus Command Link

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DATA SHEET
ADS-10017-01



CommandLink® II

Wireless Interface

Seamless Communication

The CommandLink® II wireless interface provides access to a complete suite of functional controls within a gas, water or electric SmartPoint® transceiver. This Bluetooth® enabled device, coupled with a handheld, performs activations, deactivation, meter reads, on demand reads and can also readily audit the water, gas, or electric SmartPoint module.

CommandLink II provides instant access to any SmartPoint module's programmed and stored information. You can retrieve setup information, validate readings, and verify or reprogram settings for optimal performance.

The CommandLink II is a compact tool that is compatible with Sensus approved WIN mobile, WIN 10, Android and iOS programming devices.

FEATURES

- Compact size
- Rechargeable batteries included
- Bluetooth enabled
- Built-in antenna

BENEFITS

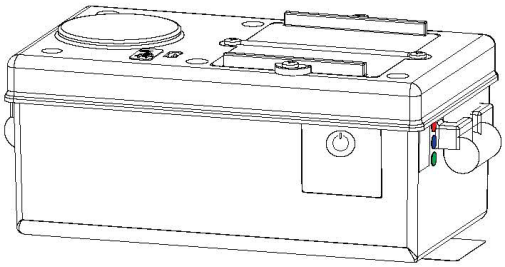
- Interacts with SmartPoint water, gas, and electric modules
- Performs on-demand interrogation
- Retrieves and reprograms settings

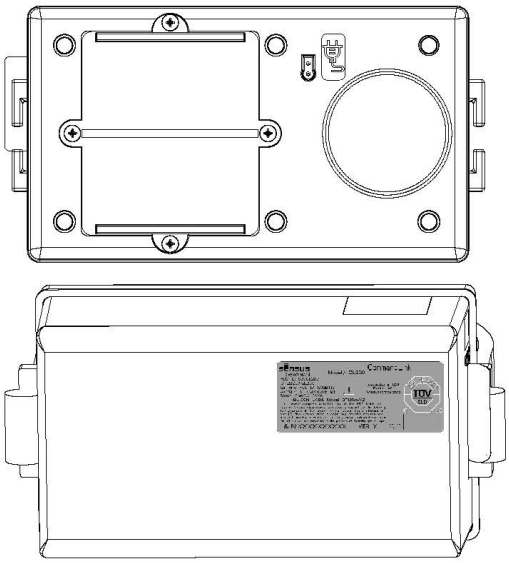
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CommandLink® II

Wireless Interface





Specifications

Case	High-impact, injection-molded plastic
Dimensions	4.7" L x 2.37" H x 2.41" W
Weight	16 oz.
Operating Temp.	32°F to 122°F
Shock Temp.	-20°F to 103°F
Charging Temp.	-32°F to 104°F
Relative Humidity	65 +/- 20%y
Dust	Meets procedures IP5X (MIL-STD 810F), Method 510.4
Warranty	One year
Compliance	Complies with FCC Part 15, 24, and 101. Complies with Industry Canada ICES-003.
Safety Certification	CAN/CSA C22.2 No. 62368-1:2014 UL 62368-1:2014 EN 62368-1:2014/A11:2017

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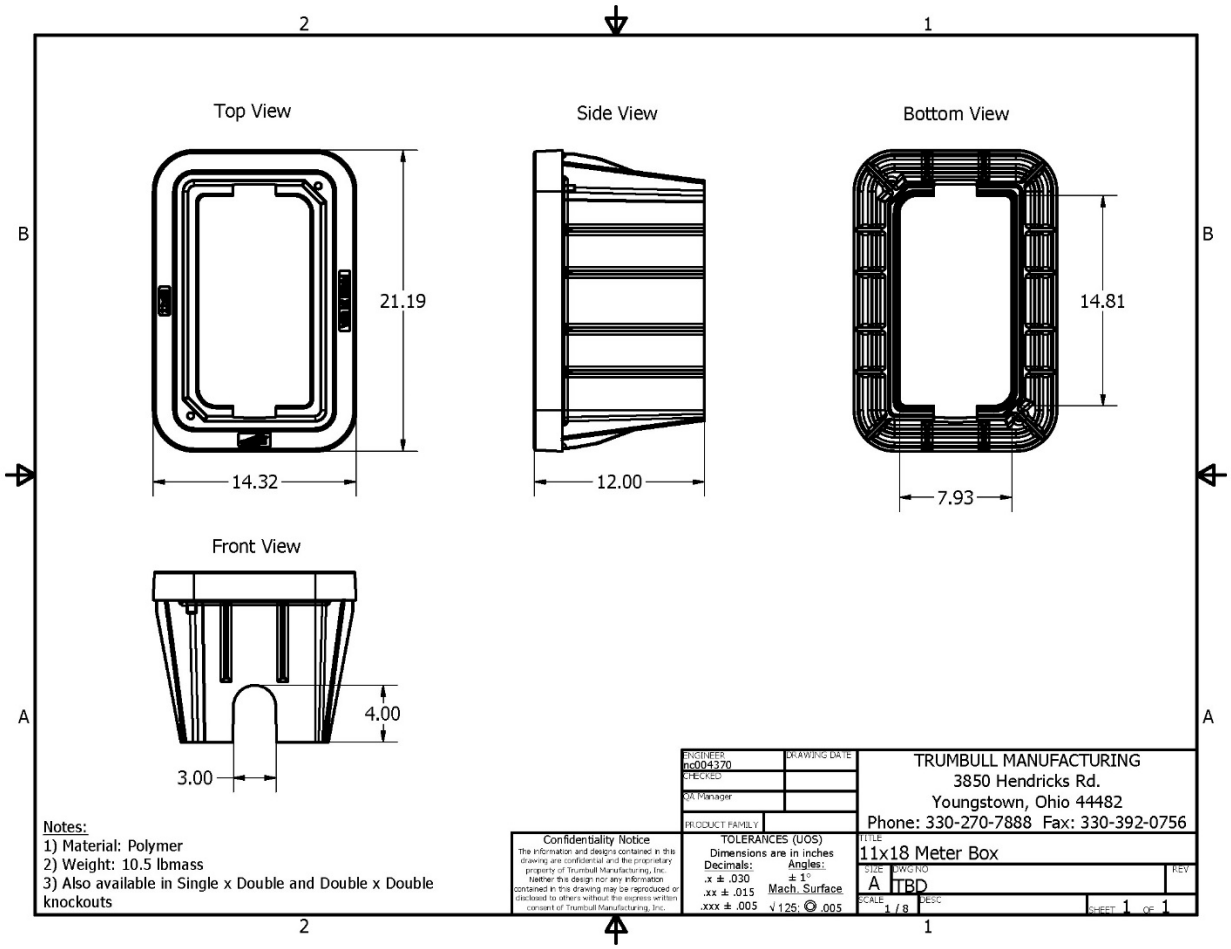
Sensus Field Logic communicator

This product does not have a Data Sheet currently available.

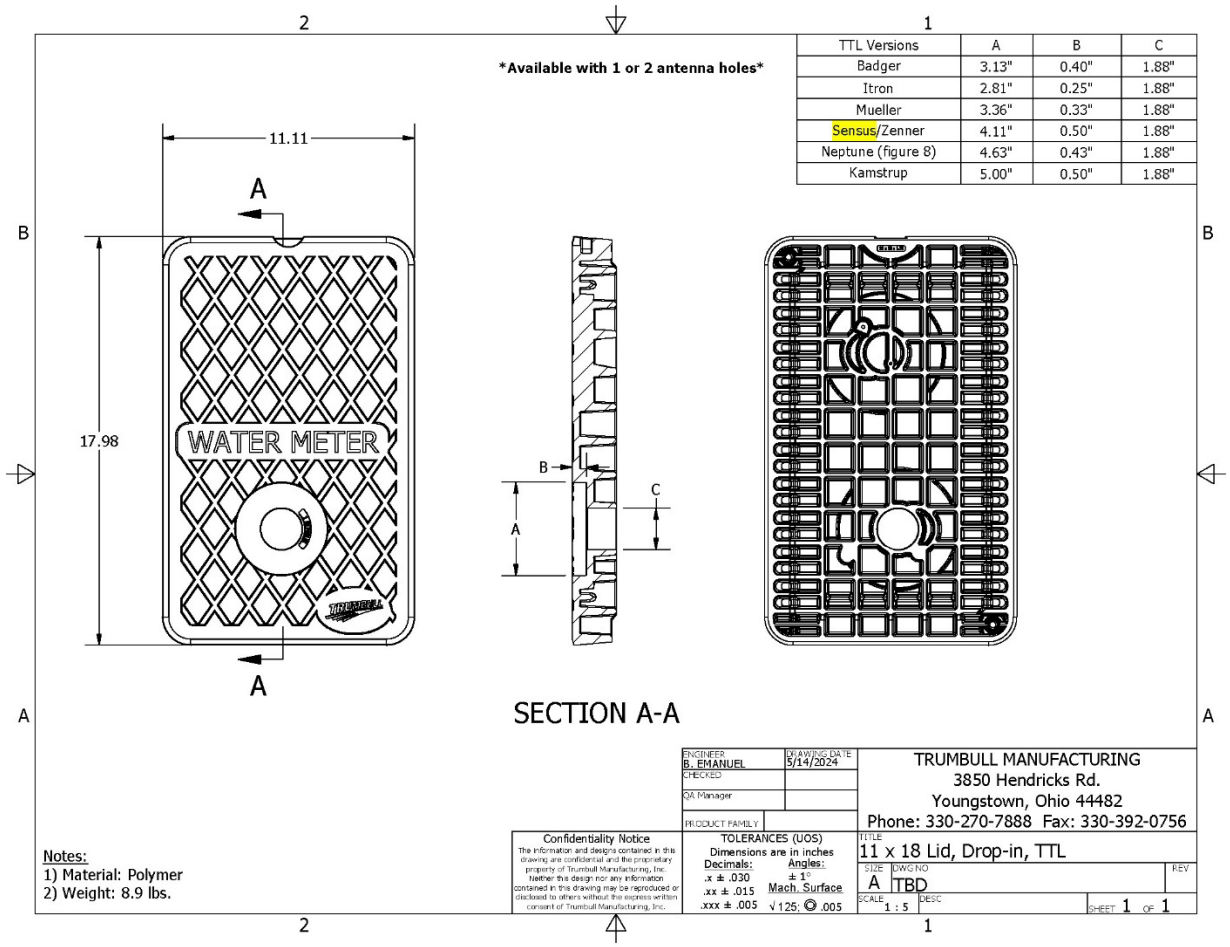
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FIELD MATERIALS

Trumbull Meter Box/Lids



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TTL Versions	A	B	C
Badger	3.13"	0.40"	1.88"
Itron	2.81"	0.25"	1.88"
Mueller	3.36"	0.33"	1.88"
Sensus/Zenner	4.11"	0.50"	1.88"
Neptune (figure 8)	4.63"	0.43"	1.88"
Kamstrup	5.00"	0.50"	1.88"

Notes:
1) Material: Polymer
2) Weight: 8.9 lbs.

ENGINEER: B. EMANUEL | DRAWING DATE: 5/14/2024
CHECKED:
QA Manager:
PRODUCT FAMILY:

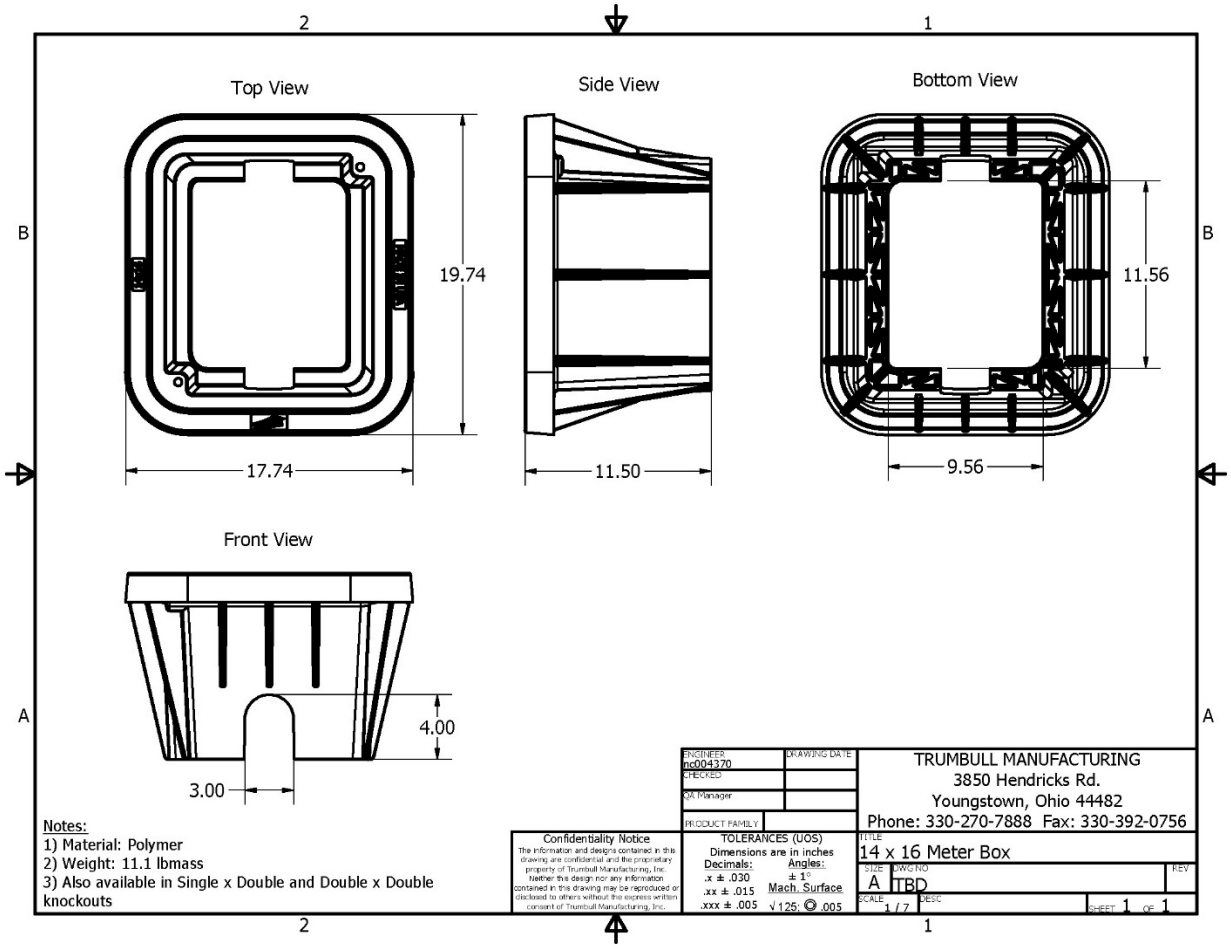
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TOLERANCES (UOS)
Dimensions are in inches
Decimals: .x ± .030, .xx ± .015, .xxx ± .005
Angles: ± 1°
Mach. Surface √125; ◎ .005

TRUMBULL MANUFACTURING
3850 Hendricks Rd.
Youngstown, Ohio 44482
Phone: 330-270-7888 Fax: 330-392-0756

TITLE: 11 x 18 Lid, Drop-in, TTL
SIZE: A | DWG NO: TBD | REV:
SCALE: 1 : 5 | DESC: | SHEET 1 OF 1

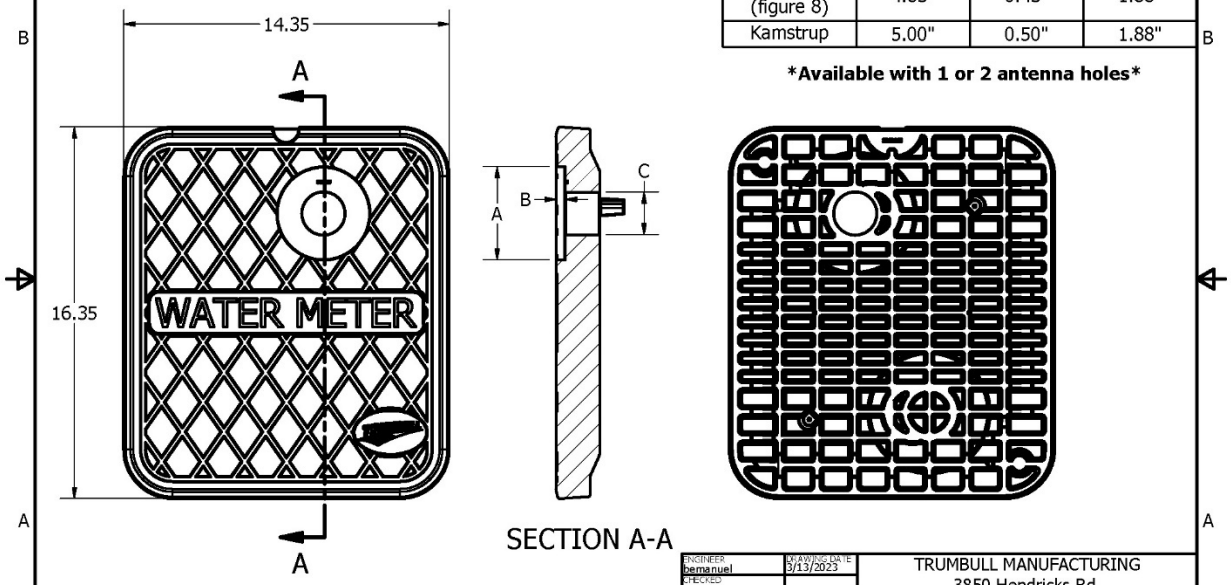
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Neptune (figure 8)	4.63"	0.43"	1.88"
Kamstrup	5.00"	0.50"	1.88"

Available with 1 or 2 antenna holes



Notes:
1) Material: Polymer
2) Weight: 10.1 lbs.

ENGINEER: bemanuel	DRAWING DATE: 3/13/2023
CHECKED	
QA Manager	
PRODUCT FAMILY	

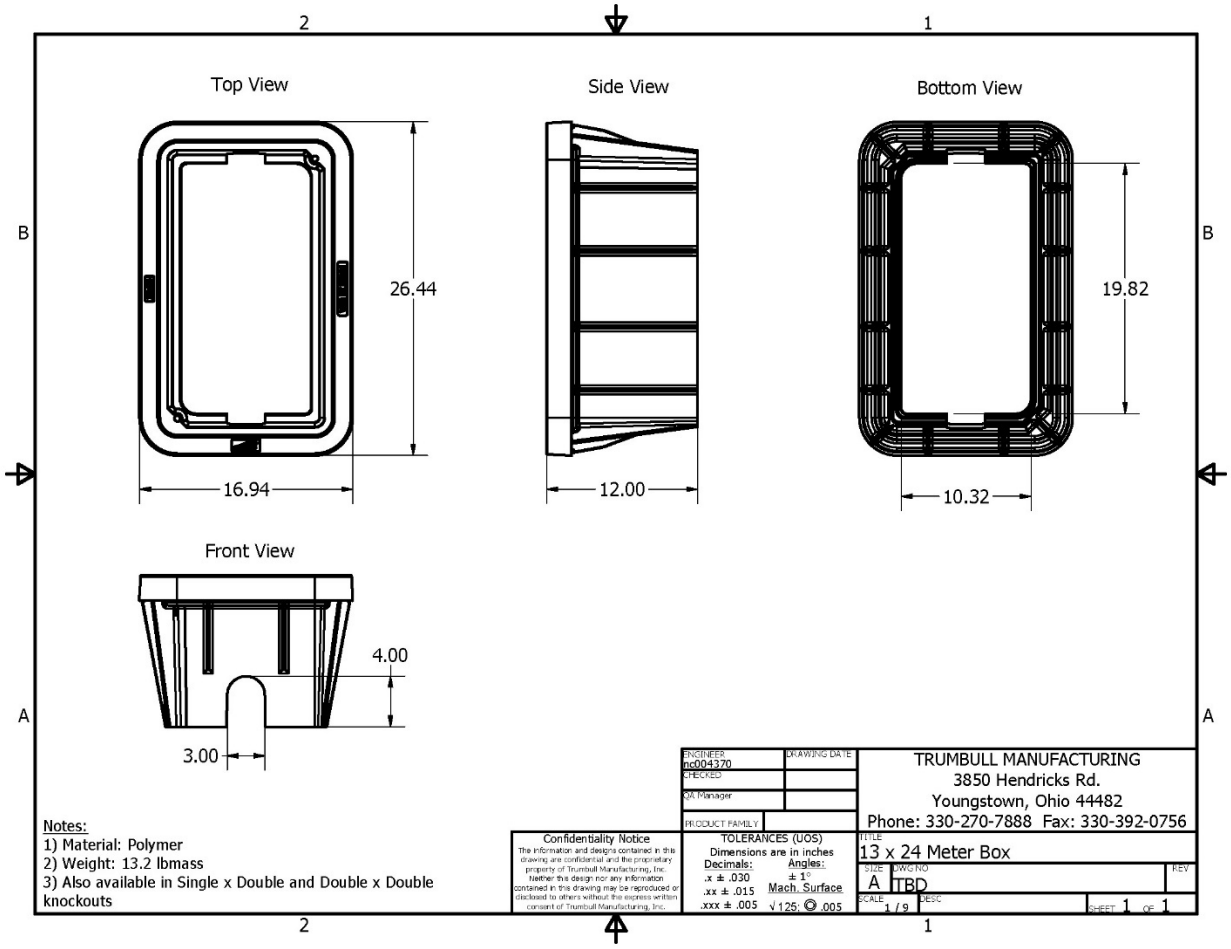
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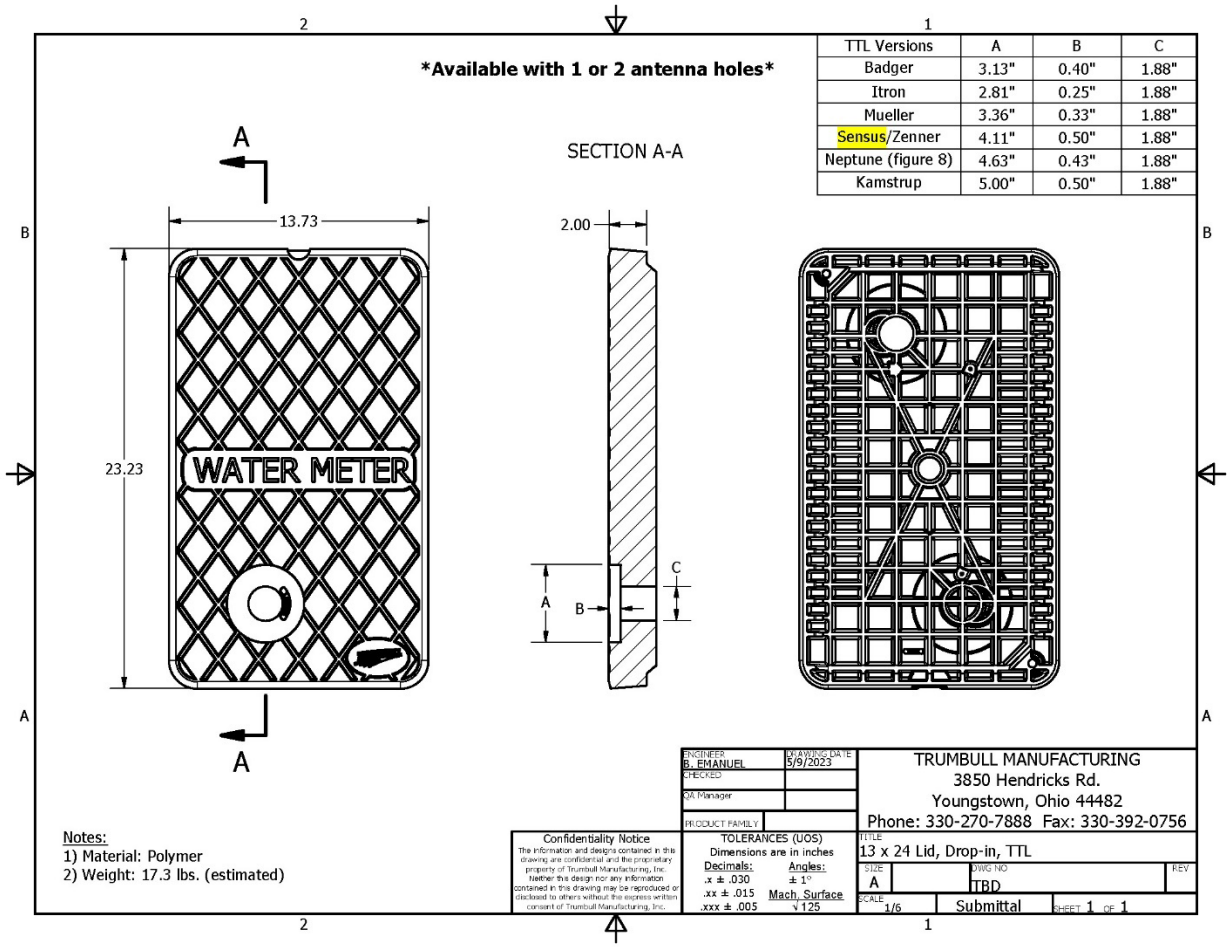
TOLERANCES (UOS)
Dimensions are in inches
Decimals: .x ± .030, .xx ± .015, .xxx ± .005
Angles: ± 1°
Mach. Surface √125

TITLE		
14x16 Lid, Drop-in, 1 TTL		
SIZE: A	DWG NO: TBD	REV
SCALE: .2	SHEET 2 OF 2	

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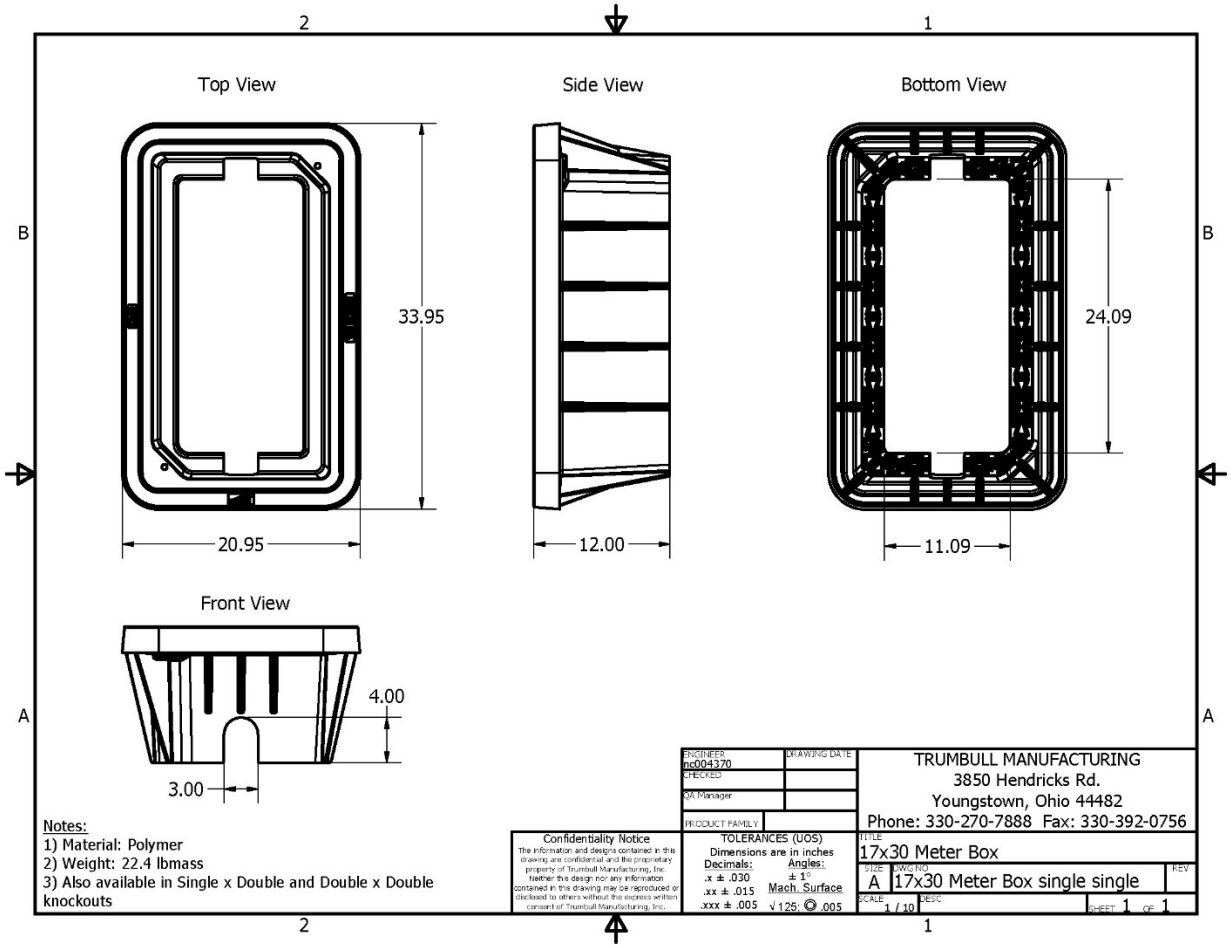


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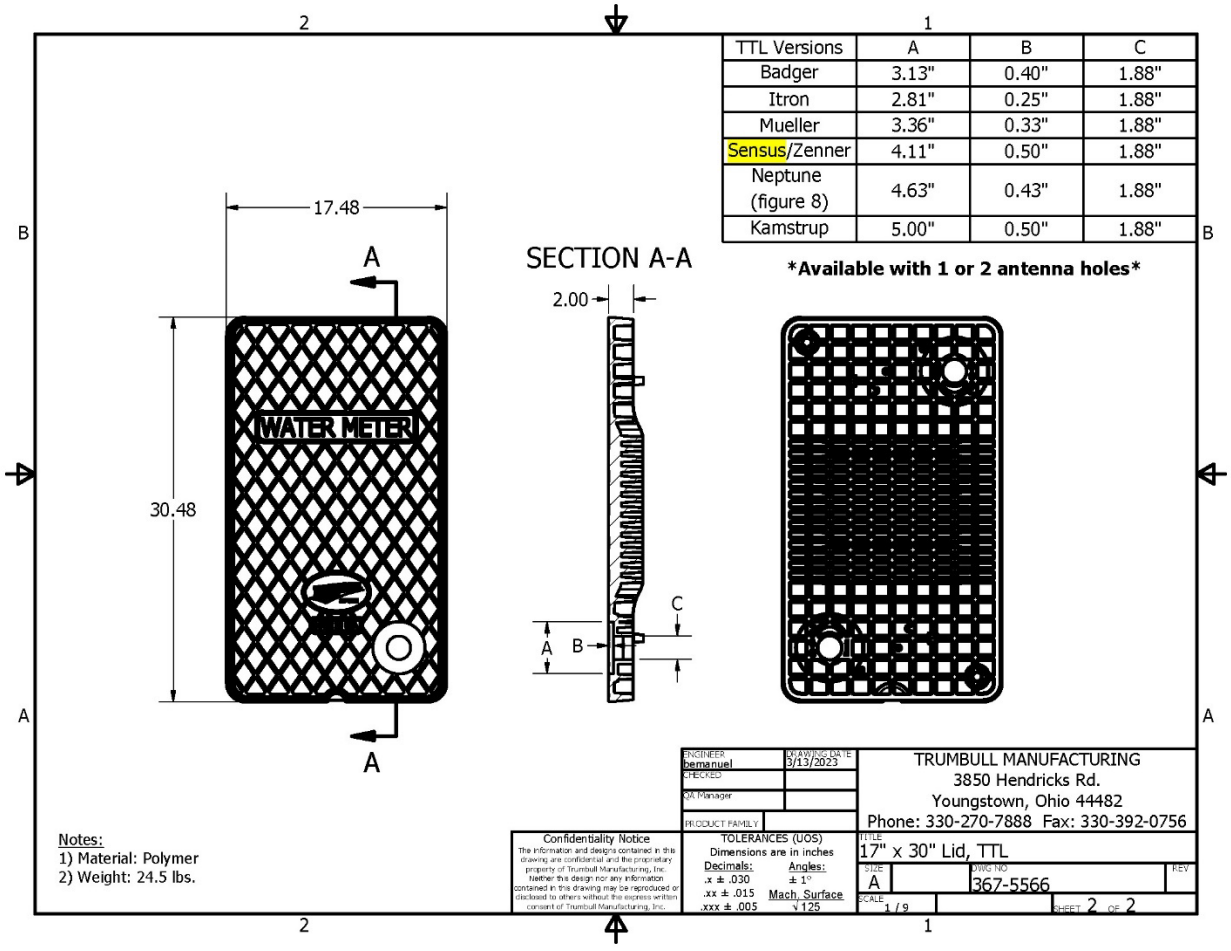


TTL Versions	A	B	C
Badger	3.13"	0.40"	1.88"
Itron	2.81"	0.25"	1.88"
Mueller	3.36"	0.33"	1.88"
Sensus/Zenner	4.11"	0.50"	1.88"
Neptune (figure 8)	4.63"	0.43"	1.88"
Kamstrup	5.00"	0.50"	1.88"

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OTHER MISC HARDWARE

Wilkins BF-700XL Backflow

ZURN Model 700XL
Dual Check Valve

Application
Ideal for use where Lead-Free* valves are required. Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 700XL shall provide protection where a potential health hazard does not exist.



Standards Compliance
- ASSE® Listed 1024
- CSA® Certified
- Meets the requirements of NSF/ANSI/CAN 61*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

LEAD FREE

ALS
NSF/ANSI/CAN 61

Materials

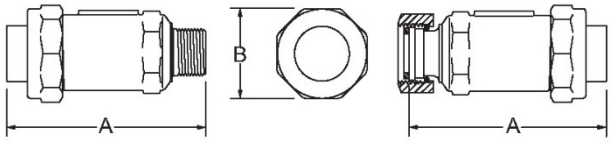
Main valve body	Low Lead Cast Bronze ASTM B 584
Elastomers	Buna Nitrile (FDA approved)
Polymers	Noryl ® (1/4"-1/2")
	Delrin ® (3/4"-1")
Springs	Stainless Steel, 300 Series

Features
Sizes: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4"
Max. pressure: 175 PSI
Max. temp: 180°F
Connections:

Threaded	ANSI B 1.20.1
Copper sweat	ANSI B 16.22
Meter thread	ANSI B 1.20.7

Options
(Suffixes can be combined)
- ☑ - with female NPT connection (standard)
- ☐ C - with female copper sweat connection
- ☑ FMTC - with female meter thread connection
- ☐ M - with male NPT connection
- ☐ MMTC - with male meter thread connection
- ☐ CH - with chrome finish (1/4", 3/8" & 1/2" sizes)

Accessories
- ☐ Repair kit (RK14-700 and RK34-700)
- ☐ Thermal expansion tank (Model XT)



Dimensions & Weights (do not include pkg.)

MODEL SIZE		DIMENSIONS				WEIGHT	
		A		B			
in.	mm	in.	mm	in.	mm	lbs.	kg
1/4	6	3 3/16	81	1 3/4	45	1	0.5
3/8	9	3 3/16	81	1 3/4	45	1	0.5
1/2	15	3 3/16	81	1 3/4	45	1	0.5
✓ 3/4	20	4 1/2	114	2	51	2	0.9
1	25	4 1/2	114	2	51	2	0.9
1-1/4	32	4 3/4	121	2	51	2	0.9

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Rev. D
Date: 12/19
Document No. BF-700XL
Product No. Model 700XL
Patent zurn.com/patents

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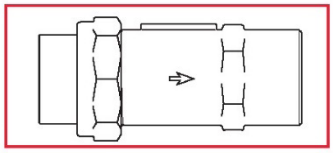
Model 700XL • Connections Legend

U = Indicates location of "union" connection
FNPT = Female National Pipe Tapered Thread
MNPT = Male National Pipe Tapered Thread
FC = Female Copper Sweat
FMTC = Female Meter Thread Connection (National Hose Straight Thread)
MMTC = Male Meter Thread Connection (National Hose Straight Thread)

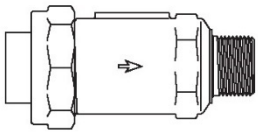
Meter Thread Connections
When ordering a Model 700XL with meter thread connections, order the connection one size larger than the water meter. For example, if your water meter is 1/2" or 5/8" your connection size would be a 3/4" meter thread. If the water meter is 5/8" x 3/4" or 3/4", your connection size would be 1" meter thread.

Configurations

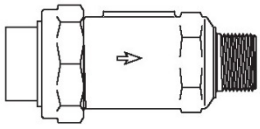
All Configurations Are Reversible



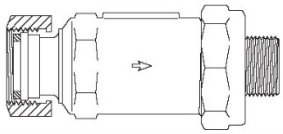
FEMALE UNION INLET X FEMALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
3/4" FNPT	3/4" FNPT	34UFX34F-700XL
3/4" FMTC	3/4" FNPT	34UFMX34F-700XL
1" FNPT	1" FNPT	1UFX1F-700XL
1" FNPT	3/4" FNPT	1UFX34F-700XL
1" FMTC	1" FNPT	1UFMX1F-700XL
1" FMTC	3/4" FNPT	1UFMX34F-700XL



FEMALE UNION INLET X MALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
3/4" FNPT	3/4" MNPT	34UFX34M-700XL
3/4" FNPT	3/4" MMTC	34UFX34MM-700XL
3/4" FMTC	3/4" MNPT	34UFMX34M-700XL
3/4" FMTC	3/4" MMTC	34UFMX34MM-700XL
3/4" FNPT	1" MMTC	34UFX1MM-700XL
3/4" FMTC	1" MNPT	34UFMX1M-700XL
1" FNPT	1" MNPT	1UFX1M-700XL
1" FNPT	1" MMTC	1UFX1MM-700XL
1" FMTC	1" MNPT	1UFMX1M-700XL
1" FMTC	1" MMTC	1UFMX1MM-700XL
1" FNPT	3/4" MNPT	1UFX34M-700XL
1" FNPT	3/4" MMTC	1UFX34MM-700XL
1" FMTC	3/4" MNPT	1UFMX34M-700XL
1" FMTC	3/4" MMTC	1UFMX34MM-700XL



FEMALE UNION "COPPER SWEAT" INLET X MALE		
INLET (UNION)	OUTLET	PART NUMBER
3/4" FC	3/4" MNPT	34UFCX34M-700XL
3/4" FC	1" MNPT	34UFCX1M-700XL
1" FC	1" MNPT	1UFCX1M-700XL



FEMALE "METER" UNION INLET X MALE UNION		
INLET (UNION)	OUTLET (UNION)	PART NUMBER
1" FMTC	1" MNPT	1UFMX1UM-700XL
1-1/4" FMTC	1" FNPT	114UFMX1UF-700XL

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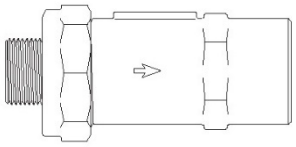
Model 700XL • How to Order

The Model 700XL is available in a variety of inlet and outlet sizes, thread types and connection types. Simply determine the inlet and outlet connection as well as the location of the union, then, select from the available configurations. The inlet connection will always be specified first in the model number. A union inlet connection with integral body outlet connection is standard. For connections other than shown below, such as BSP threads, contact your local WILKINS representative or factory.

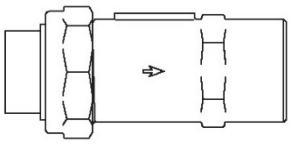
Example: A dual check valve is to be located on the outlet side of a 3/4" water meter with male inlet and outlet connections (see "Meter Thread Connections" on previous page). The union will be located on the inlet side of the valve. The outlet requires a 1" female NPT connection.

Inlet	Outlet	Model No.
1UFM	1F	**1UFMX1F-700XL**

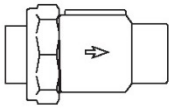
Configurations (cont.)



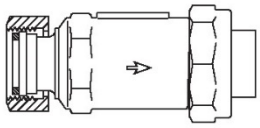
MALE UNION INLET X FEMALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
1" MNPT	1" FNPT	1UMX1F-700XL



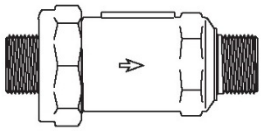
FEMALE UNION "COPPER SWEAT" INLET X FEMALE		
INLET (UNION)	OUTLET	PART NUMBER
3/4" FC	3/4" FNPT	34UFCX34F-700XL
3/4" FC	1" FNPT	34UFCX1F-700XL
1" FC	1" FNPT	1UFCX1F-700XL
1" FC	3/4" FNPT	1UFCX34F-700XL



FEMALE UNION INLET X FEMALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
1/4" FNPT	1/4" FNPT	14UFX14F-700XL
3/8" FNPT	3/8" FNPT	38UFX38F-700XL
1/2" FNPT	1/2" FNPT	12UFX12F-700XL
1/2" FC	1/2" FC	12UFCX12FC-700XL



FEMALE "METER UNION INLET X FEMALE UNION		
INLET (UNION)	OUTLET (UNION)	PART NUMBER
1" FMTC	3/4" FNPT	1UFMX34UF-700XL
1" FMTC	1" FNPT	1UFMX1UF-700XL
1" FMTC	1" FMTC	1UFMX1UFM-700XL
1-1/4" FMTC	1" FNPT	114UFMX1UF-700XL



MALE UNION INLET X MALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
1" MNPT	1" MNPT	1UMX1M-700XL

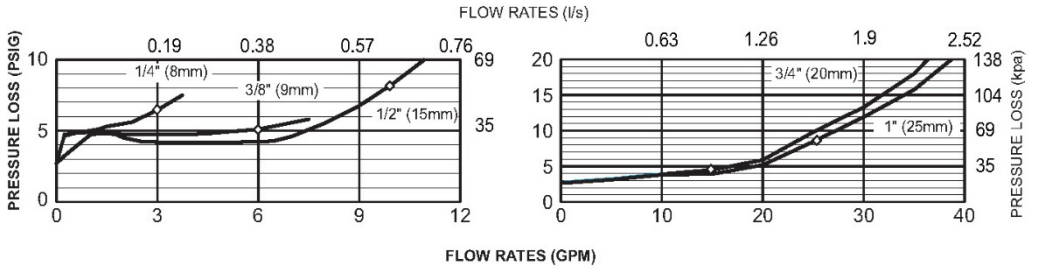
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Flow Characteristics

◇ Rated Flow (established by approval agencies)

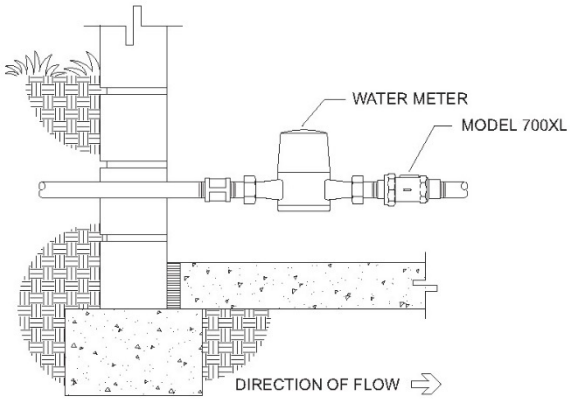
MODEL 700XL 1/4", 3/8", 1/2", 3/4" & 1" (STANDARD & METRIC)



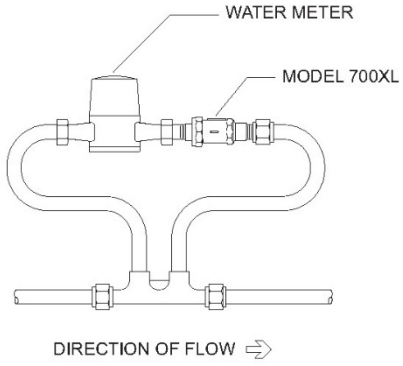
Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the installation shall be in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



INDOOR INSTALLATION



METER SETTER INSTALLATION

Specifications

The Dual Check Valve Backflow Preventer shall be certified to NSF/ANSI/CAN 61, and ASSE® Listed 1024. The main body shall be low lead cast bronze (ASTM B 584), the check assemblies shall be NORYL ® (1/4"-1/2") or DELRIN® (3/4"-1"). The seal ring and o-rings shall be Buna Nitrile. The Dual Check Valve shall be a ZURN WILKINS Model 700XL.

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Wilkins BF-375

Model 375
Reduced Pressure Principle Assembly

Application
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 375 provides protection where a potential health hazard exists. Ideal for use where lead-free* valves are required.

Standards Compliance
(Unless Otherwise Noted, Sizes 2 1/2" Thru 10")
- ASSE® Listed 1013
- cUPC® Listed
- CSA® Certified B64.4 (2 1/2" thru 8")
- AWWA Compliant C511, and C550
- FM® Approved
- UL® Classified
- C-UL® Classified
- NYC MEA 49-01-M Vol 2
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California.
- Meets the requirements of NSF/ANSI/CAN 61*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main valve body	Ductile Iron ASTM A 536
Access covers	Ductile Iron ASTM A 536
Coatings	NSF Approved fusion epoxy finish
Internals	Stainless steel, 300 Series NORYL™
Fasteners	Stainless Steel, 300 Series
Seal rings	EPDM (FDA approved)
O-rings	Buna Nitrile (FDA approved)
Springs	Stainless Steel, 300 Series
Sensing line	Stainless Steel, braided hose

Features

Sizes:	2 1/2", 3", 4", 6", 8", 10"
Maximum working water pressure	175 PSI
Maximum working water temperature	140°F
Hydrostatic test pressure	350 PSI
End connections (Grooved for steel pipe)	AWWA C606
(Flanged)	ANSI B16.42 Class 150

Attention:
Model 375 (flange body) and Model 375A (grooved body) have different lay lengths.



LEAD FREE

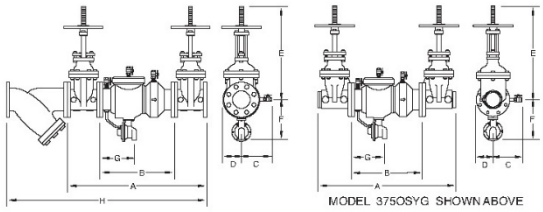
NSF/ANSI/CAN 61

Options (Suffixes can be combined)
- ☐ - with NRS shut-off valves (standard)
- ☐ FSC - with epoxy coated wye type strainer (flanged only)
- ☐ G - with grooved end NRS gate valves
- ☐ GF - with grooved inlet connection and flanged outlet connection
- ☐ FG - with flanged inlet connection and grooved outlet connection
- ☐ L - less shut-off valves (flanged body connections)
- ☐ OSY - with OS&Y gate valves
- ☐ PI - with Post Indicator gate valve
- ☐ BG - with grooved end butterfly valves with integral supervisory switches

*New Connected Products. Search ZCSM-PF on Zurn.com for details.

Accessories
- ☐ Connected Pressure Monitor (Model ZCSM-PF)*
- ☐ Connected Flow Meter Option (Model ZCSM-BTM must be ordered with Model ZCSM-PF)*
- ☐ OS & Y Gate valve tamper switch (OSY-40
- ☐ Air gap (Model AG)
- ☐ QT-SET Quick Test Fitting Set
- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model XT)
- ☐ Wireless Monitor Retrofit Kit for conversion of existing model 375 (212-6-RFK-375W1, 8-10-RFK-375W1)

Relief Valve discharge port:
2 1/2" - 6" - 2.75 sq. in.
8" - 10" - 3.69 sq. in.



MODEL 375OSYG SHOWN ABOVE

Dimensions & Weights (do not include pkg.)

MODEL 375 SIZE	DIMENSION (approximate)																								WEIGHT									
	A		A WITH BUTTERFLY VALVES		B LESS GATE VALVES		C		D		E OS&Y OPEN		E OS&Y CLOSED		E NRS GATE		E WITH BUTTERFLY VALVES		F		G		H		LESS SHUT-OFF VALVES		NRS GATE VALVES FLANGED		NRS GATE VALVES GROOVED		OS&Y GATE VALVES FLANGED		OS&Y GATE VALVES GROOVED		BUTTERFLY VALVES GROOVED	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
2 1/2	65	31	787	28	711	16 7/8	403	7 1/4	184	3 3/4	96	17 3/4	451	15 3/8	391	11 1/2	292	8 1/4	210	9 1/2	241	8 3/8	213	41 1/4	1048	60	27	162	73	144	65	170	77	152	69	132	60
3	80	32	813	28 1/2	724	16 7/8	403	7 1/4	184	3 3/4	96	20 1/4	514	17	432	12 3/4	324	8 1/2	216	9 1/2	241	8 3/8	213	42 3/4	1086	60	27	184	83	154	70	190	86	142	64	112	51
4	100	37 5/8	956	32 8/9	835	19 1/2	496	8	203	4 1/2	114	22 1/2	572	18 1/4	464	14 1/2	368	9	229	11	279	9 1/4	235	52 3/4	1340	98	44	278	126	260	118	288	131	274	124	182	83
6	150	44 5/8	1133	37 5/8	956	23 1/2	597	10	254	6	152	30 1/2	775	24 1/4	616	18	457	10 1/4	260	12 3/8	314	10 3/4	273	62 3/4	1594	175	79	459	208	431	196	475	215	449	204	293	133
8	200	60 7/8	1546	53 7/8	1369	37 3/4	959	11	279	10	254	37	940	28 1/2	724	21 1/8	537	12	305	15 3/8	391	16 3/4	425	85	2159	377	171	829	376	796	361	853	387	806	366	551	250
10	250	63 7/8	1622	57 7/8	1470	37 3/4	959	11	279	10	254	45 5/8	1159	34 3/4	883	24 3/4	629	13	330	15 3/8	391	16 3/4	425	93 1/4	2369	407	185	1167	529	1101	499	1225	556	1169	526	795	361

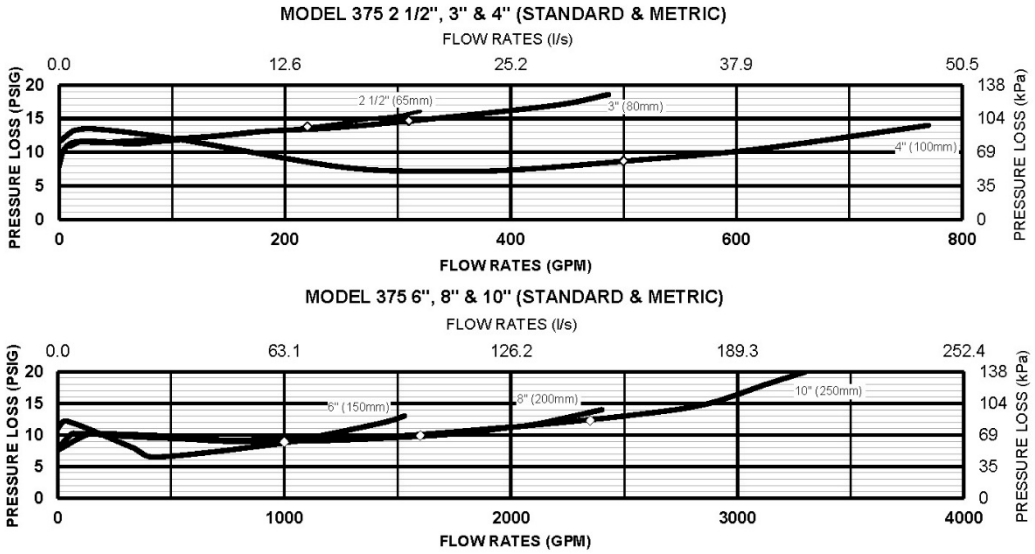
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Rev. M
Date: 12/22
Document No. BF-375
Product No. Model 375
Patent zurn.com/patents

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Flow Characteristics

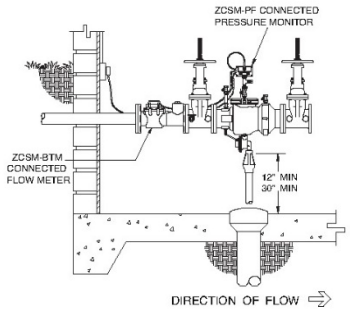
◇ Rated Flow (established by approval agencies)



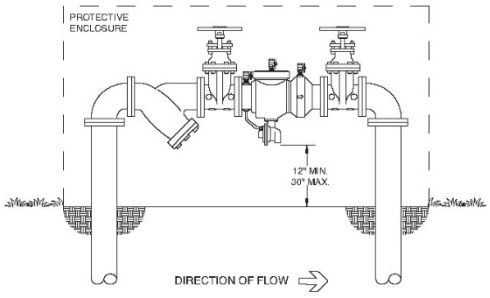
Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe (GPM)				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 1/2"	**75**	**112**	**149**	**224**
3"	115	173	230	346
4"	198	298	397	595
6"	450	675	900	1351
8"	780	1169	1559	2339
10"	1229	1843	2458	3687
12"	1763	2644	3525	5288



INDOOR INSTALLATION
(375OSY with ZCSM-PF Connected Pressure Monitor and ZCSM-BTM Connected Flow Meter accessories)



OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1013, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Principle Backflow Prevention Assembly shall be a ZURN WILKINS Model 375.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

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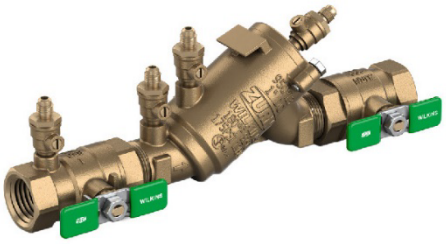
Wilkins BF-950XL3

Model 950XL3
Double Check Valve Assembly

Application
Ideal for use where Lead-Free* valves are required. Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Assembly shall provide protection where a potential non-health hazard exists.

Standards Compliance (Horizontal and Vertical)
- ASSE® Listed 1015, Horizontal and Vertical Up
- cUPC® Listed
- CSA® Certified B64.5, Horizontal and Vertical Up
- AWWA Compliant C510
- UL® Classified (less shut-off valves)
- C-UL® Classified
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- Meets the requirements of NSF/ANSI/CAN 61 and 372*

*(Less than 0.25% Weighted Average Lead Content)



LEAD FREE NSF/ANSI/CAN 61

Materials

Main valve body	Low Lead Cast Bronze ASTM B 584
Access cover	Low Lead Cast Bronze ASTM B 584
Fasteners	Stainless Steel, 300 Series
Elastomers	Silicone (FDA Approved) Buna Nitrile (FDA Approved)
Polymers	Noryl™
Springs	Stainless Steel, 300 Series
Ball valve handles	Stainless Steel

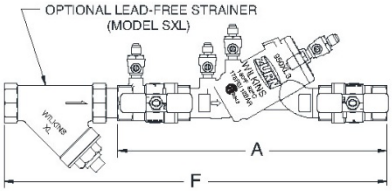
Features
Sizes: 3/4", 1", 1 1/4", 1 1/2", 2"

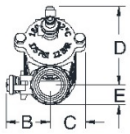
Minimum working water pressure	20 PSI
Maximum working water pressure	175 PSI
Minimum working water temperature	33°F
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
Threaded end connections (FNPT)	ANSI B1.20.1

Options
(Suffixes can be combined)
- ☐ - with full port QT ball valves (standard, 3/4" -2"), and with integral male 45° flare SAE test fitting (standard, 3/4" - 1")
- ☐ FT - with integral male 45° flare SAE test fitting (1 1/4" - 2", contact factory for approvals)
- ☐ S - with Model SXL lead-free bronze wye type strainer
- ☐ U - with union ball valves (3/4" - 2")

Accessories
- ☐ Repair kits (see repair kit guide for full list)
- ☐ Thermal expansion tank (Model XT)
- ☐ QT-SET Quick Test Fitting Set (1 1/4" - 2")

Repair Kit Part Numbers
RK34-950XL3
RK1-950XL3
RK114-950XL3 (1 1/4" & 1 1/2")
RK2-950XL3





Dimensions & Weights (do not include pkg.)

MODEL SIZE		DIMENSIONS (approximate)												WEIGHT	
		A		B		C		D		E		F		WITH BALL VALVES	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	9 15/32	241	1 9/16	42	1 5/16	34	3 3/16	82	11/16	18	14 3/16	358	3.4	1.5
1	25	11 3/4	299	1 15/16	49	1 1/2	39	3 7/16	87	7/8	22	17 9/16	446	5.2	2.4
1 1/4	32	15 1/4	387	2 1/2	64	1 5/8	42	4 1/4	109	1 3/16	29	20 3/8	518	10.2	4.6
1 1/2	40	15 15/16	405	3 1/16	79	1 5/8	41	4 5/16	110	1 1/4	33	21 9/16	548	11.9	5.4
2	50	17 11/16	449	3 1/2	89	1 15/16	49	5 1/16	128	1 5/8	41	24 5/8	626	18.0	8.2

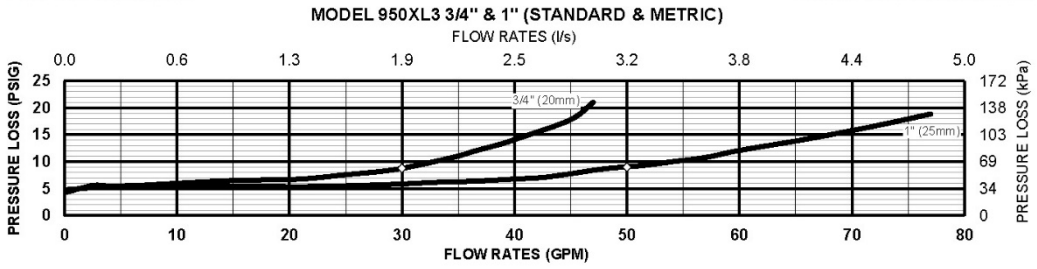
Zurn Water, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
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7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
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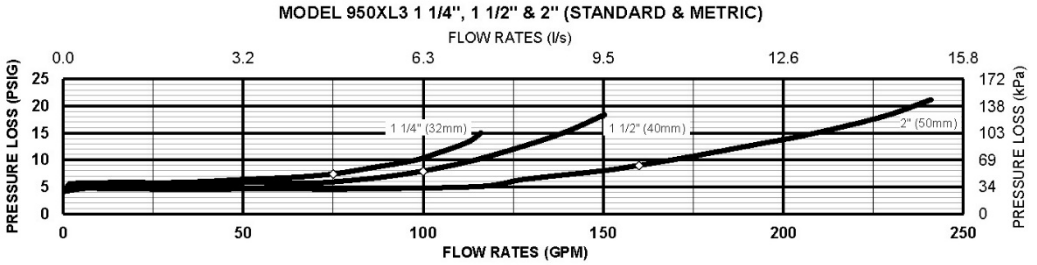
Rev. G
Date: 4/24
Document No. BF-950XL3
Product No. Model 950XL3
Patent zurn.com/patents

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Flow Characteristics

◇ Rated Flow (established by approval agencies)

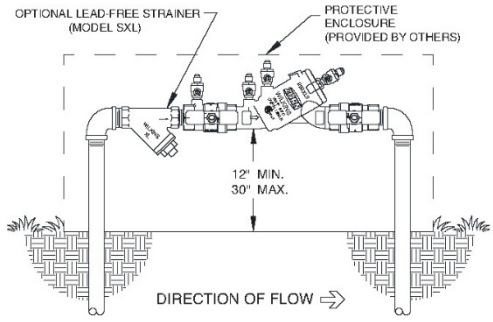




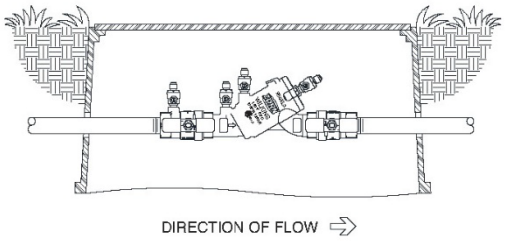
Typical Installation

Local codes shall govern installation requirements. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



OUTDOOR INSTALLATION



PIT INSTALLATION

Specifications

The Double Check Type Backflow Preventer shall be certified to NSF/ANSI/CAN 61, shall be ASSE Listed 1015, rated to 180°F, and supplied with full port ball valves. The main body and access cover shall be low lead bronze (ASTM B 584), the seat ring and all internal polymers shall be Noryl™ and the seat disc elastomers shall be silicone. The first and second check shall be located at an angle and accessible for maintenance from the top of the device, without removing the device from the line. The checks shall share a single access cover and test cocks shall be accessible from the top of the device. The Double Check Type Backflow Preventer shall be a ZURN WILKINS Model 950XL3.

Zurn Water, LLC | **Wilkins**
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
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ATTACHMENT B: SENSUS PROPAGATION STUDY AND NETWORK DESIGN

PROPAGATION STUDY #1 – 2 BASE STATION LOCATIONS

Design Summary

SENSUS
a xylem brand

Design Summary

- Network Coverage
  - Total Endpoints Evaluated = 5,244
    - Electric Endpoints Evaluated = 2,612
    - Water Endpoints Evaluated = 2,632
  - Total Endpoints Covered = 5,244 or 100%
  - Endpoints Covered by (≥2 Base Stations) = 100%
  - Average Endpoints Covered per Base Station = 2,622

SENSUS CONFIDENTIAL / UTILITY CONFIDENTIAL 3

SENSUS
a xylem brand

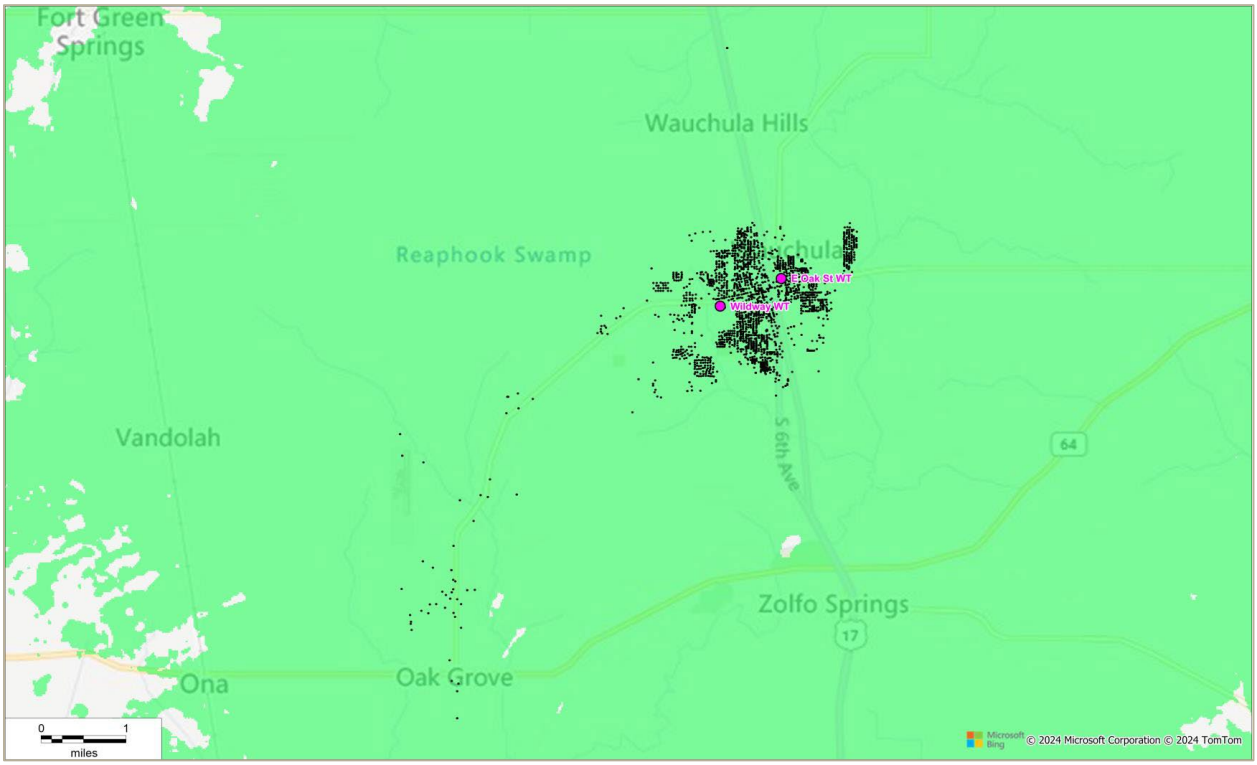
Design Summary (cont.)

- Sites and Equipment
  - Total Proposed Site Locations = 2
  - Base Stations Required = 2
- Site Details
  - Customer owned site locations proposed = 2 or 100%

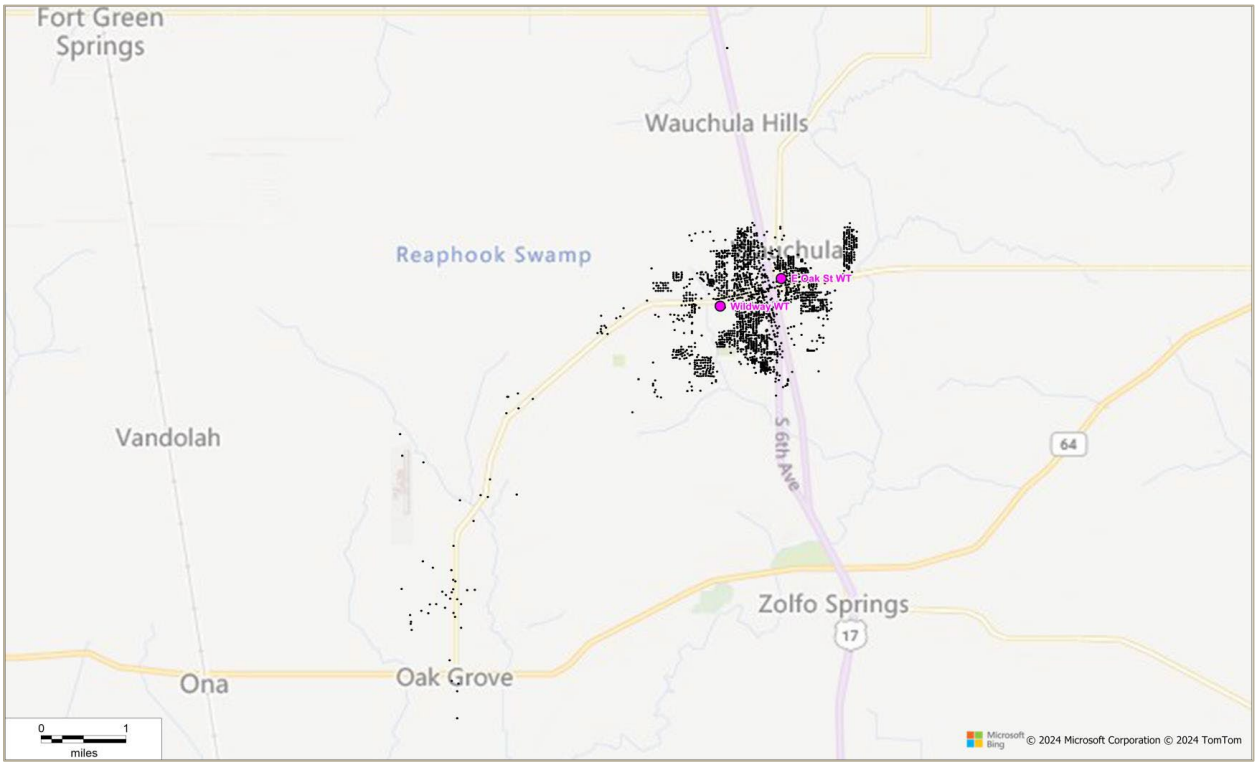
SENSUS CONFIDENTIAL / UTILITY CONFIDENTIAL 4

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Proposed Site Locations with Electric Coverage

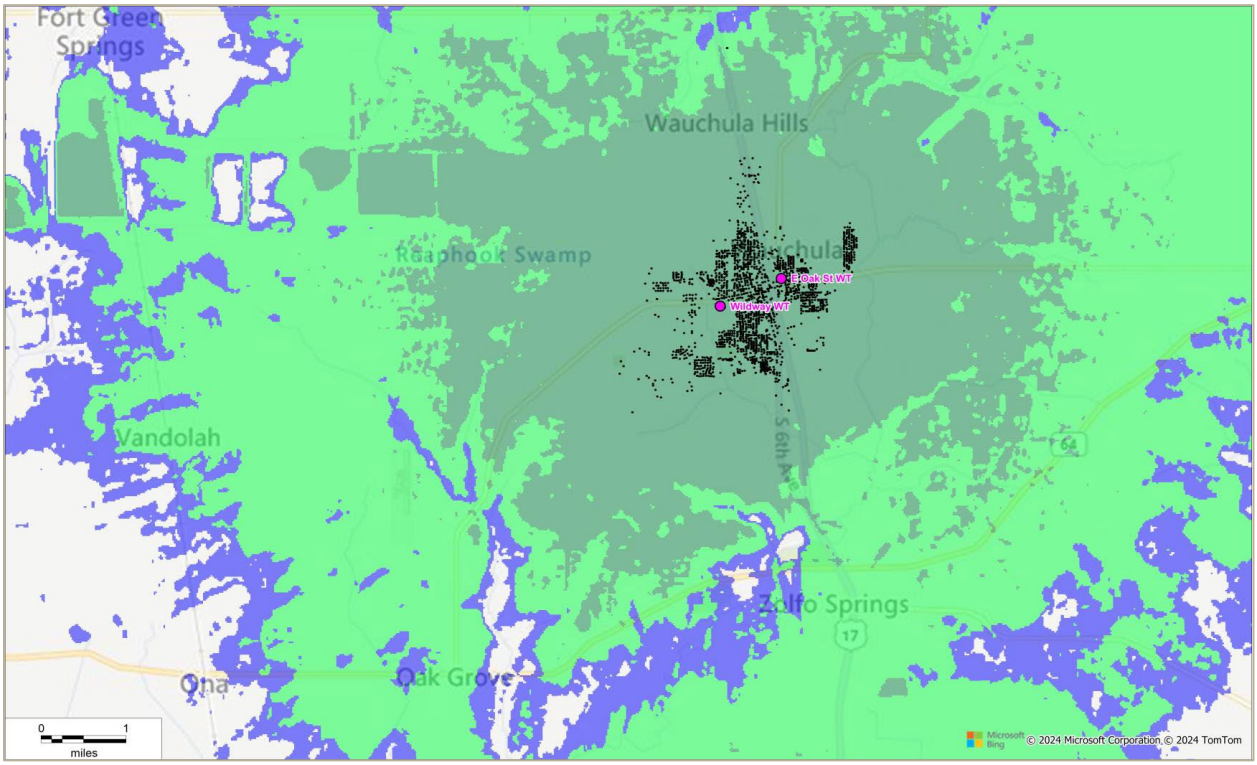


Proposed Site Locations with Electric Endpoints

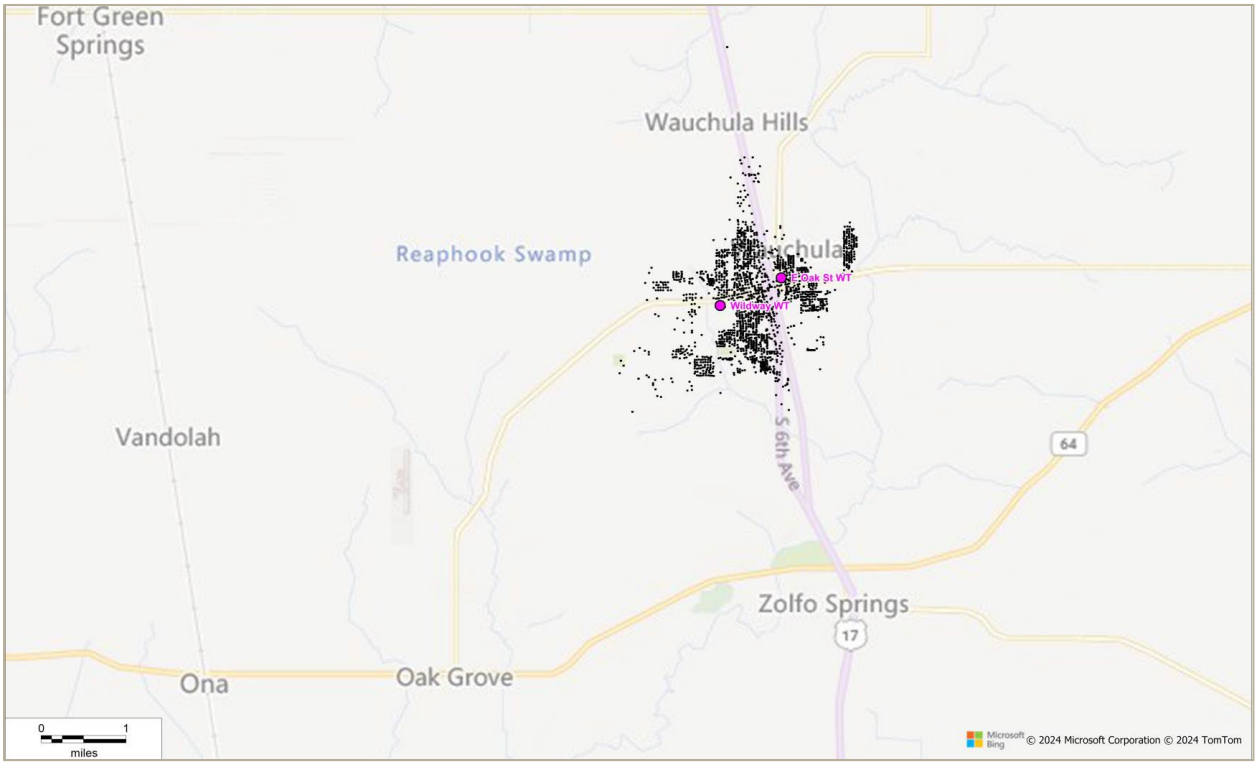


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Proposed Site Locations with Water Coverage



Proposed Site Locations with Water Endpoints



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PROPAGATION STUDY #2 – 1 BASE STATION LOCATION

Design Summary

Design Summary

- Network Coverage
  - Total Endpoints Evaluated = 5,244
    - Electric Endpoints Evaluated = 2,612
    - Water Endpoints Evaluated = 2,632
  - Total Endpoints Covered = 5,244 or 100%
  - Endpoints Covered by (≥2 Base Stations)
    - Water = 2,590 or 98.40%
    - Electric = 2,608 or 99.85%
  - Average Endpoints Covered per Base Station = 1,748

SENSUS CONFIDENTIAL / UTILITY CONFIDENTIAL

3

Design Summary (cont.)

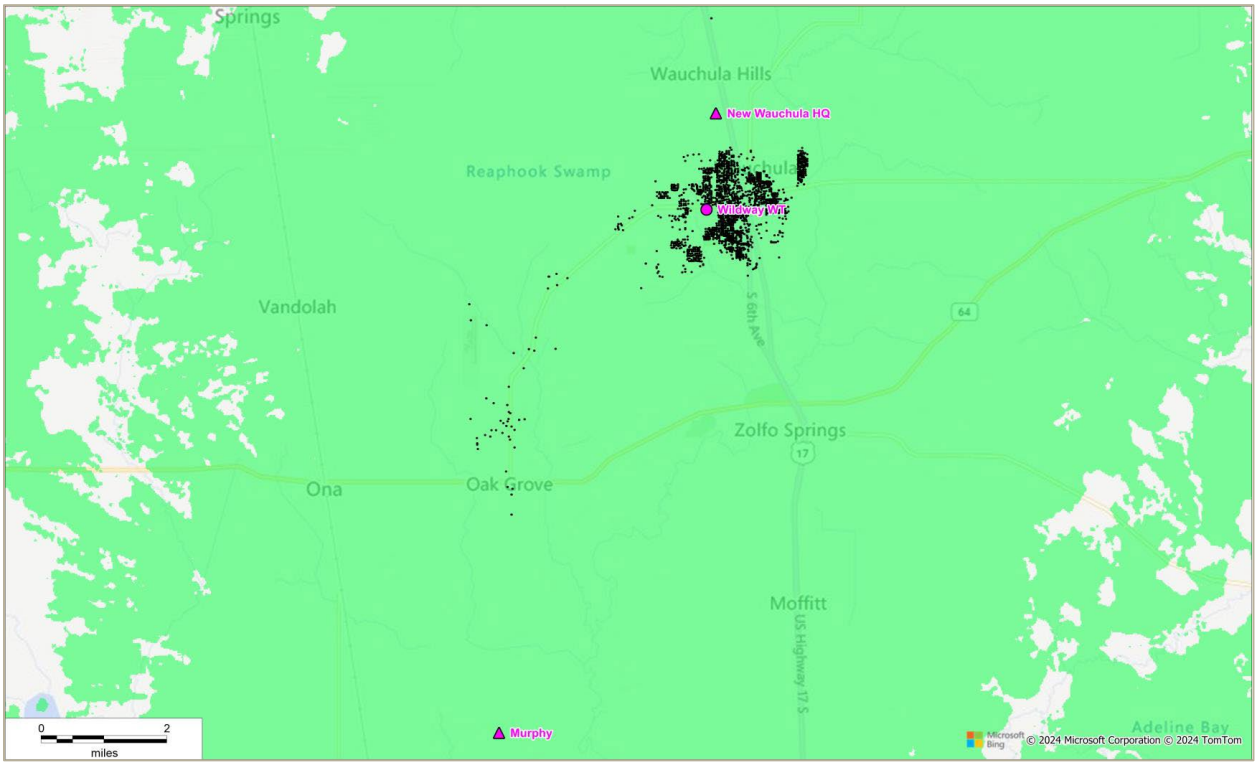
- Sites and Equipment
  - Total Proposed Site Locations = 1
  - Base Stations Required = 1
  - Total Existing Site Locations = 2
  - Existing Base Stations Utilized = 2
- Site Details
  - Customer owned site locations proposed = 1 or 33.33%
  - Shared Network site locations utilized = 2 or 66.67%

SENSUS CONFIDENTIAL / UTILITY CONFIDENTIAL

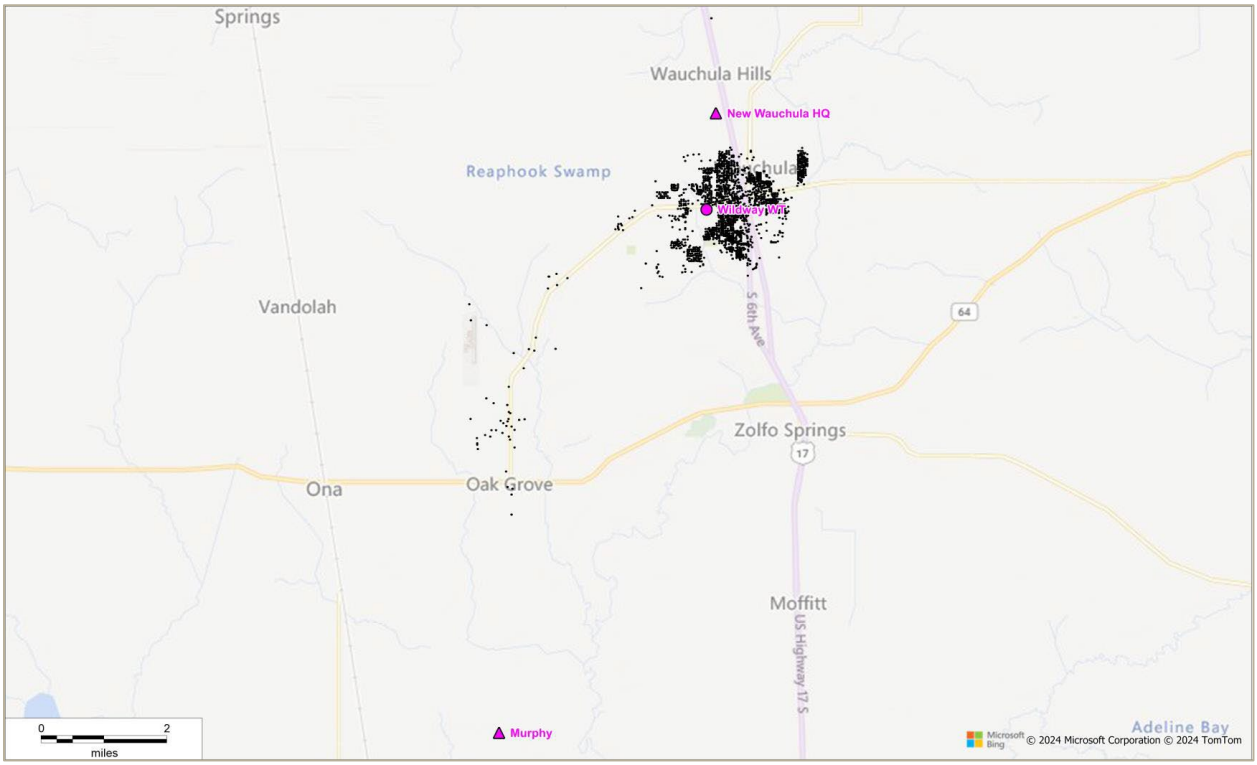
4

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Proposed Site Locations with Electric Coverage

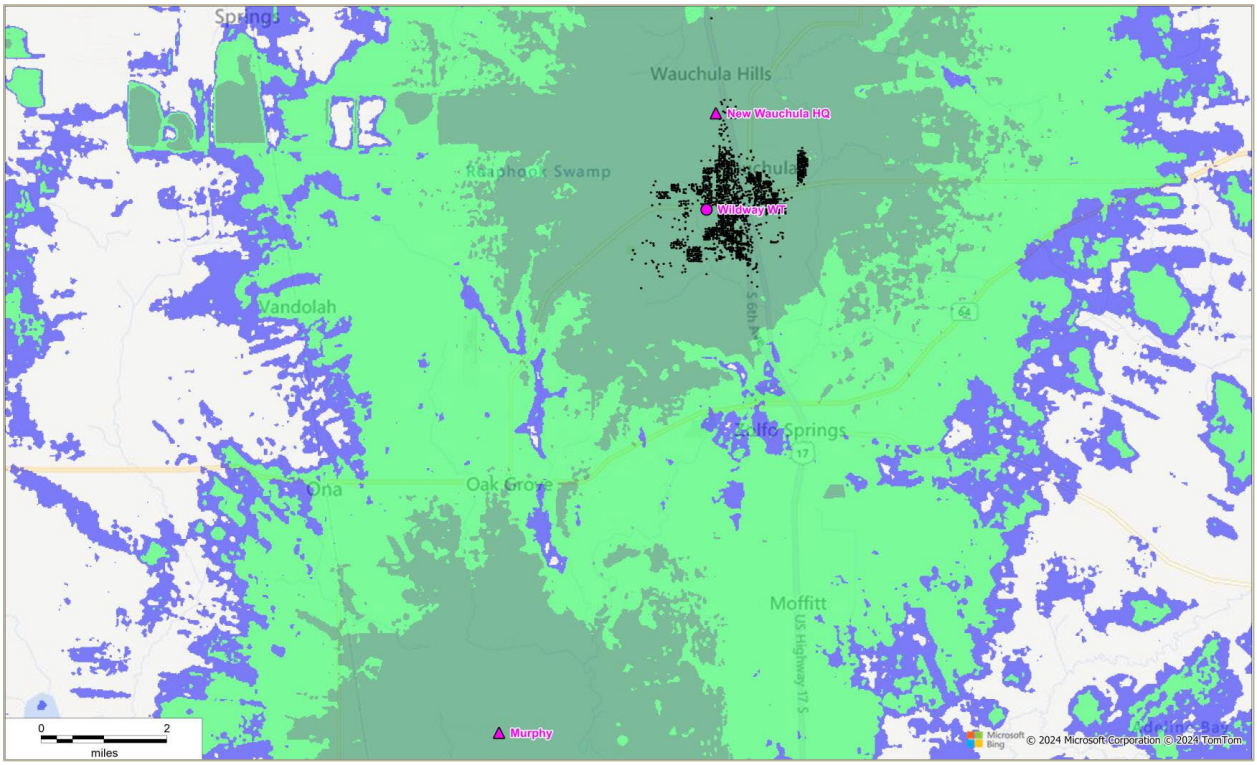


Proposed Site Locations with Electric Endpoints

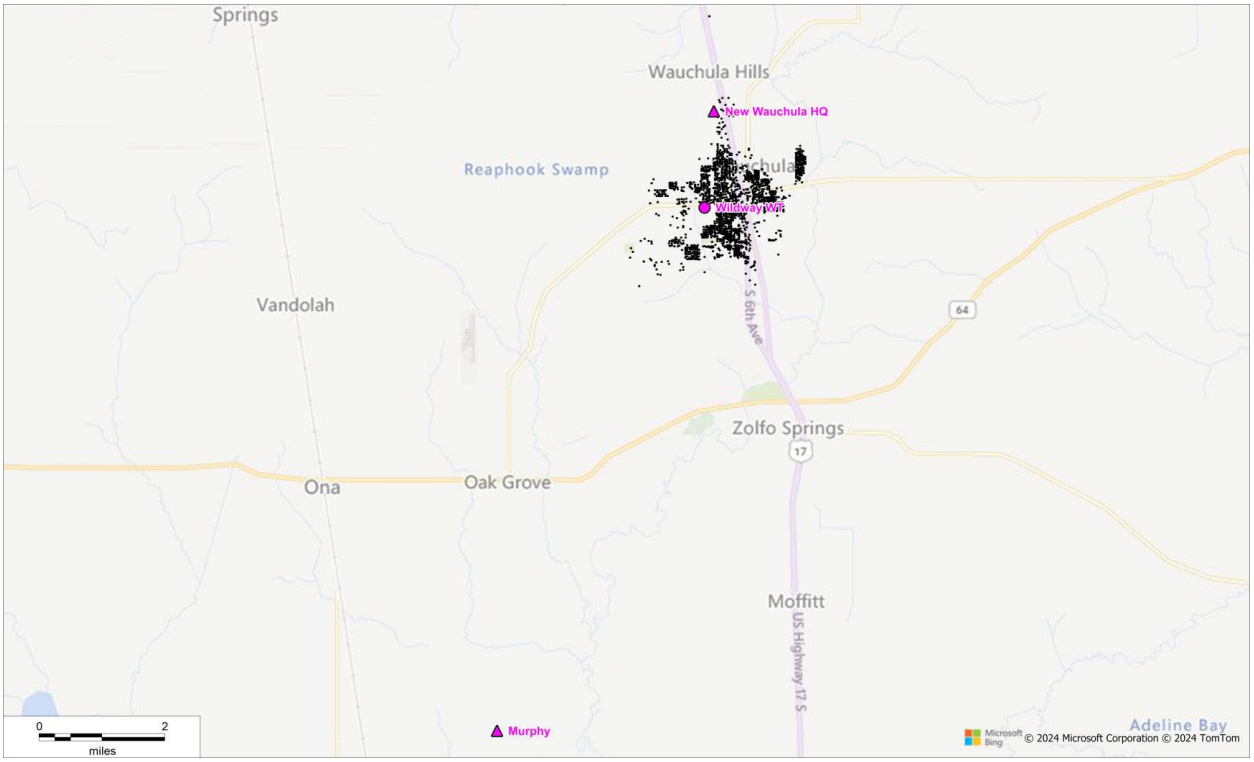


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Proposed Site Locations with Water Coverage



Proposed Site Locations with Water Endpoints



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ATTACHMENT C: SAMPLE AGREEMENTS

SENSUS SAMPLE AMI AGREEMENT

SENSUS SAAS AGREEMENT

Software as a Service and Spectrum Lease Agreement

between

CITY OF WAUCHULA
("Customer")

and
Sensus USA Inc.
("Sensus")

IN WITNESS WHEREOF, the parties have caused this Software as a Service and Spectrum Lease ("Agreement") to be executed by their duly authorized representatives as of the day and year written below. The date of the last party to sign is the "Effective Date."

This Agreement shall commence on the Effective Date and continue for/until: 5 Years ("Initial Term"). At the end of the Initial Term, this Agreement shall automatically renew for an additional term of 5 years ("Renewal Term"). The "Term" shall refer to both the Initial Term and the Renewal Term.

This Agreement contains two parts: Part (1) is The FCC Notification for Spectrum Manager Lease, to be filed with the FCC by Sensus on behalf of the Customer and Part (2) is a Software as a Service and Spectrum Lease between Sensus and Customer. Together, these two parts create the Agreement.

Sensus USA Inc.		**Customer: CITY OF WAUCHULA**	
By:	_____	By:	_____
Name:	_____	Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

Contents of this Agreement:

Part 1: Notification for Spectrum Manager Lease
Part 2: Agreement
Exhibit A Software
Exhibit B Technical Support

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Part 1: Notification for Spectrum Manager Lease

In order for Sensus to apply to the FCC on the Customer's behalf for a spectrum manager lease, Customer must complete the information below in boxes one (1) through ten (10) and certify via authorized signature. Customer's signature will indicate that Customer authorizes Sensus to file the spectrum manager lease notification on FCC Form 608 with the Customer as spectrum Lessee, and if Customer does not already have one, ownership disclosure information on FCC Form 602.

1.

Customer/Lessee Name:		
Attention To:	Name of Real Party in Interest:	
Street Address:		City:
State:	Zip:	Phone:
Fax:	Email:	

Is Customer contact information same as above? ☐Yes ☐No (If No, complete box 2 below)

2.

Additional Customer/Lessee Contact Information

Company Name:		
Attention To:		
Street Address:		City:
State:	Zip:	Phone:
Fax:	Email:	

3.

Customer/Lessee is a(n) (Select one): ☐Individual | ☐ Unincorporated Association | ☐Trust
☐Government Entity | ☐Corporation | ☐ Limited Liability Company | ☐General Partnership
☐Limited Partnership | ☐Limited Liability Partnership | ☐Consortium | ☐ Other _____

4.

FCC Form 602: FCC File Number of Customer's Form 602 Ownership Information: _____. If Customer has not filed a Form 602, Sensus will file one for Customer. Please complete questions 5, 6, and 7 below if Customer does not have a Form 602 on file.
Customer must complete items 8, 9 and 10 irrespective of whether Customer has an ownership report on file.

5.

Customer Tax ID:

6.

Individual Contact For FCC Matters

Please designate one individual (the Director of Public Works or similar person) who is responsible to the FCC for the operation of the FlexNet radio system.	
Name	
Title:	
Email:	Phone:

7.

Please list the names of the Board President and all Board Members below, as well as verify citizenship and ownership interests in any entity regulated by the FCC. Such ownership must be disclosed where a board member member owns 10% or more, directly or indirectly, or has operating control of any entity subject to FCC regulation. If any answer to Ownership question is Yes, or any answer to Citizenship question is No, provide an attachment with further explanation.

	US Citizen?	Ownership Disclosure?
Board President:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No

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Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No
Board Member:	☐Yes ☐No	☐Yes ☐No

8.

Alien Ownership Questions (if the answer is Yes, provide an attachment explaining the circumstances)

1) Is the Customer/Lessee a foreign government or the representative of any foreign government?	☐Yes ☐No

9.

Basic Qualification Information

1) Has the Customer or any party to this application had any FCC station authorization, license, or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license or construction permit denied by the Commission?	☐Yes ☐No
2) Has the Customer or any party to this filing, or any party directly or indirectly controlling the Customer or any party to this filing ever been convicted of a felony by any state or federal court?	☐Yes ☐No
3) Has any court finally adjudged the Customer or any party directly or indirectly controlling the Customer guilty of unlawfully monopolizing or attempting to unlawfully monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition?	☐Yes ☐No

10.

Customer/Lessee Certification Statements

1) The Customer/Lessee agrees that the Lease is not a sale or transfer of the license itself.	☐Yes
2) The Customer/Lessee acknowledges that it is required to comply with the Commission's Rules and Regulations and other applicable law at all times, and if the Customer/Lessee fails to so comply, the Lease may be revoked, cancelled, or terminated by either the Licensee or the Commission.	☐Yes
3) The Customer/Lessee certifies that neither it nor any other party to the Application/Notification is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C § 862, because of a conviction for possession or distribution of a controlled substance (*See* Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.)	☐Yes
4) The Customer/Lessee hereby accepts Commission oversight and enforcement consistent with the license and lease authorization. The Lessee acknowledges that it must cooperate fully with any investigation or inquiry conducted either by the Commission or the Licensee, allow the Commission or the Licensee to conduct on-site inspections of transmission facilities, and suspend operations at the direction of the Commission or the Licensee and to the extent that such suspension of operation would be consistent with applicable Commission policies.	☐Yes
5) The Customer/Lessee acknowledges that in the event an authorization held by a Licensee that has associated with it a spectrum leasing arrangement that is the subject of this filing is revoked, cancelled, terminated, or otherwise ceases to be in effect, the Customer/Lessee will have no continuing authority to use the leased spectrum and will be required to terminate its operations no later than the date on which the Licensee ceases to have any authority to operate under the license, unless otherwise authorized by the Commission.	☐Yes
6) The Customer/Lessee agrees the Lease shall not be assigned to any entity that is not eligible or qualified to enter into a spectrum leasing arrangement under the Commission's Rules and Regulations.	☐Yes
7)The Customer/Lessee waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by spectrum lease or otherwise.	☐Yes
8) The Customer/Lessee certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.	☐Yes

The Customer/Lessee certifies that all of its statements made in this Application/Notification and in the schedules, exhibits, attachments, or documents incorporated by reference are material, are part of this Application/Notification, and are true, complete, correct, and made in good faith. The Customer/Lessee shall notify Sensus in writing in the event any information supplied on this form changes.

CITY OF WAUCHULA			
By:		Title:	
Name:		Date:	
FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.			

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WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)) AND/OR FORFEITURE (U.S. Code Title 47, Section 503).

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Part 2: Agreement

1. **General**

A. Agreement Generally. The scope of this Agreement includes Sensus providing the specified services, usage terms for Sensus' hosted Software solution, leased spectrum, technical support, and supporting terms and conditions for an advanced metering infrastructure solution in consideration of Customer's purchase and payment to Sensus' Authorized Distributor under separate agreement by and between Customer and Sensus' Authorized Distributor, for all such goods and services.

2. **Software.**

Software as a Service ("SaaS")

Sensus shall provide Customer with SaaS, as defined in Exhibit A, and Technical Support during the Term and only so long as Customer is current in its payments for such services. Upon the expiration or termination of this Agreement, Sensus will have no obligation to provide any further Services or Technical Support.

Sensus will provide Technical Support for any given Release in accordance with Exhibit B for four (4) years from the date Sensus issues the Release. Sensus will provide Engineering Support of any given release for two (2) years from the date Sensus issues the Release. Notwithstanding the foregoing, in the event of a critical security vulnerability (in Sensus' reasonable discretion), Customer acknowledges (i) that in order to receive particular vulnerability or defect corrections (whether by Patch, Update or Upgrade), Customer may need to move to a more recent supported Release of the Software, and (ii) Sensus reserves the right to discontinue supporting Releases of the Software, including in the event such Software has been identified by Sensus as end of life. Sensus may declare Software "end of life" upon either (i) the relevant window of Technical Support or Engineering Support ending or (ii) becoming aware of a security incident or vulnerability.

UCITA. To the maximum extent permitted by law, the Parties agree that the Uniform Computer Information Transaction Act as enacted by any state shall not apply, in whole or in part, to this Agreement.

3. **Spectrum**

A. **Definitions in this Section.** In this Section only, "Sensus" shall mean Sensus USA Inc. and its wholly owned subsidiary, Sensus Spectrum LLC.

B. **Spectrum Lease.** Sensus hereby grants to Customer, and Customer accepts, a spectrum manager lease ("Spectrum Lease") over the frequencies of certain FCC license(s) ("FCC License") solely within Customer's Service Territory. (The frequencies of the FCC License within Customer's geographic Service Territory are called the "Leased Spectrum"). Customer shall pay the Ongoing Fees for use of the Leased Spectrum.

C. **FCC Forms.** At the Federal Communications Commission ("FCC"), Sensus will; (1) obtain an FCC Registration Number ("FRN")) for Customer; (2) submit on behalf of Customer the FCC Form 602 Ownership Disclosure Information if Customer has not already done so; and (3) file a FCC Form 608, notification/application for long-term spectrum manager lease. This Lease becomes effective when the FCC accepts the FCC Form 608.

D. **Lease Application.** In order to complete the FCC lease application, Customer will promptly:

i. Complete and sign the representations in Part 1 of this Agreement such that Customer demonstrates it qualifies for a spectrum lease under FCC rules. Customer's signature will indicate that Customer authorizes Sensus to; (1) obtain an FRN on behalf of Customer; (2) submit the FCC Form 602 Ownership Disclosure Information on behalf of Customer if Customer has not already done so; and (3) file the spectrum manager lease notification on FCC Form 608 with the Customer as spectrum lessee.

ii. Give Sensus the coordinates of the boundaries of Customer's Service Territory or, alternatively, approve Sensus' estimation of the same.

iii. If Customer has not already done so; Customer hereby authorizes Sensus to apply on Customer's behalf and obtain for Customer a Federal Registration Number (FRN, the FCC's unique identifier for each licensee) and shall supply Sensus with Customer's Taxpayer Identification Number ("TIN").

iv. Provide any other information or other cooperation reasonably necessary for the Parties to perform as set forth herein.

E. **Permitted Use of Spectrum Lease and Equipment.** Customer may transmit or receive over the Leased Spectrum only in the Service Territory and only using FlexNet equipment manufactured by Sensus and used in accordance with Sensus' specifications. Customer may use the Leased Spectrum only to read and direct Field Devices or any other operation approved by Sensus in writing. Without limiting the foregoing, Customer is prohibited from reselling, subleasing or sublicensing the FlexNet Equipment and Leased Spectrum, and from transmitting voice communications over the Leased Spectrum. For each piece of RF Field Equipment used by Customer, Customer shall affix a Sensus-supplied label to the exterior of the RF Field Equipment cabinet or other appropriate visible place to indicate that RF operation is conducted under authority of FCC License(s) issued to Sensus.

F. **Term of Spectrum Lease.** Unless terminated earlier (because, for example, Customer stops using the FlexNet equipment or because this Agreement terminates or expires for any reason), this Spectrum Lease will have the same term as the FCC license. If Customer is operating in compliance with this Agreement and is current on any payments owed to Sensus, when the FCC License renews, the Parties will apply to the FCC to renew this Spectrum Lease.

G. **Termination of Spectrum Lease.** The Spectrum Lease will terminate: (a) two months after Customer stops transmitting with FlexNet equipment manufactured by Sensus; (b) upon termination, revocation or expiration of the FCC License; (c) upon Customer's breach of this Agreement; or (d) upon termination or expiration of this Agreement for any reason.

H. **FCC Compliance.** The following FCC requirements apply

i. Pursuant to 47 CFR 1.9040(a);

a. Customer must comply at all times with applicable FCC rules. This Agreement may be revoked by Sensus or the FCC if Customer fails to so comply;

b. If the FCC License is terminated, Customer has no continuing right to use the Leased Spectrum unless otherwise authorized by the FCC;

c. This Agreement is not an assignment, sale or other transfer of the FCC License;

d. This Agreement may not be assigned except upon written consent of Sensus, which consent may be withheld in its discretion; and

e. In any event, Sensus will not consent to an assignment that does not satisfy FCC rules.

ii. Referencing 47 CFR 1.9010, Sensus retains *de jure* and *de facto* control over the applicable radio facilities, including that,

a. Sensus will be responsible for Customer's compliance with FCC policies and rules. Sensus is responsible for engineering the FlexNet equipment and accompanying software and other programs to comply with FCC rules. Customer will operate the FlexNet equipment subject to Sensus' supervision and control and solely in accordance with Sensus' specifications. Sensus retains the right to inspect Customer's radio operations hereunder and to terminate this Agreement or take any other necessary steps to resolve

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a violation of FCC rules, including to order Customer to cease transmission. Sensus will act as spectrum manager in assigning spectrum under the FCC License so as to avoid any harmful interference or other violation of FCC rules. Sensus will be responsible for resolving any interference complaints or other FCC rule violations that may arise; and

b. Sensus will file any necessary FCC forms or applications and Customer agrees to reasonably assist Sensus with such filing by providing any necessary information or other cooperation. Sensus will otherwise interact with the FCC with respect to this Agreement, the FCC License or FlexNet equipment.

iii. Customer must continue operations on the spectrum during the Term of this Agreement. If Customer stops operations for any period of time, Customer must notify Sensus by sending an email to legal@xyleminc.com. Customer may not pause or discontinue operations for more than 180 days.

l. **Interference.** Customer agrees to report to Sensus promptly, and in no event later than 72 hours afterward, any incident related to the Leased Spectrum, including where Customer experiences harmful interference, receives a complaint or other notice of having caused harmful interference, or receives any type of communication from the FCC or other government agency regarding radio transmission.

4. Equipment.

A. Purchase of Equipment. Customer shall purchase all Field Devices, and other goods (collectively, "Equipment") from Sensus' authorized distributor pursuant to the terms and conditions (including any warranties on such Equipment) agreed by Customer and Sensus' authorized distributor. This Agreement shall not affect any terms and conditions, including any warranty terms, agreed by Customer and Sensus' authorized distributor. If Customer elects to purchase any equipment or services directly from Sensus, or if Customer pays any fees or other costs to Sensus, then Sensus' Terms of Sale shall apply. The "Terms of Sale" are available at: https://www.sensus.com/tc, or 1-800-METER-IT

B. THERE ARE NO WARRANTIES IN THIS AGREEMENT, EXPRESS OR IMPLIED. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS, WARRANTIES AND/OR CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS AGREEMENT, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE. WITHOUT LIMITING THE FOREGOING, SENSUS MAKES NO WARRANTIES OR PROMISE (I) THAT ITS SOFTWARE AS A SERVICE, SOFTWARE OR OTHER SERVICES WILL OPERATE IN CONJUNCTION WITH ANY SOFTWARE, SERVICES OR PRODUCTS PROVIDED BY THIRD PARTIES, (II) THAT THE OPERATION OF THE SOFTWARE AS A SERVICE OR ANY SENSUS SOFTWARE WILL BE UNINTERRUPTED OR ERROR OR VULNERABILITY FREE, OR (III) THAT ALL DEFECTS, BUGS, ERRORS OR VULNERABILITIES CAN OR WILL BE FIXED OR REMEDIATED. CUSTOMER ACKNOWLEDGES THAT SENSUS DOES NOT CONTROL THE TRANSFER OF DATA OVER THE INTERNET OR ACROSS OTHER NETWORKS, AND THE SOFTWARE AS A SERVICE MAY BE SUBJECT TO LIMITATIONS, DELAYS, AND OTHER PROBLEMS INHERENT IN THE USE OR OPERATION OF SUCH INTERNET OR NETWORKS. SENSUS IS NOT RESPONSIBLE FOR ANY DAMAGES, INCIDENTS, DELAYS, DELIVERY PROBLEMS, OR OTHER PROBLEMS RESULTING FROM SUCH INTERNET OR NETWORK PROBLEMS. IN NO EVENT IS SENSUS RESPONSIBLE OR LIABLE FOR ANY ISSUES RELATED TO THE PERFORMANCE, OPERATION OR SECURITY OF THE SOFTWARE AS A SERVICE OR ANY SENSUS SOFTWARE THAT ARISE FROM CUSTOMER'S OR ITS THIRD PARTIES' ENVIRONMENT; FAILURE TO IMPLEMENT PATCHES, UPDATES OR UPGRADES; SYSTEMS; CONTENT; NETWORKS; OR DEVICES. EXCEPT AS OTHERWISE EXPRESSLY STATED IN THIS AGREEMENT, CUSTOMER ASSUMES ALL RESPONSIBILITY AND RISK FOR ITS USE OF THE SOFTWARE AS A SERVICE, SENSUS SOFTWARE AND OTHER SERVICES PROVIDED UNDER THIS AGREEMENT.

5. Services.

A. Installation of Equipment. Installation services for Field Devices, other goods, and RF Field Equipment will be as agreed between the Customer and Sensus' authorized distributor. Sensus will not provide installation services pursuant to this Agreement. Sensus is not responsible for any problems that arise from the installation services (e.g., faulty configuration).

B. Technical Support. Sensus shall provide Customer the technical support set forth in Exhibit B.

C. Project Management. Sensus' authorized distributor will provide project management services to Customer. Any project management of the FlexNet System provided by Sensus shall be subject to a separate agreement which describes the scope and pricing for such work.

D. Training. Sensus' authorized distributor will provide Customer with training on the use of the FlexNet System. Any training provided by Sensus shall be subject to a separate agreement which describes the scope and pricing for such work.

E. IT Systems Integration Services. Except as may otherwise be provided herein, integration of the Software into Customer's new or existing internal IT systems is not included in this Agreement. Any integration work shall be subject to a separate agreement which describes the scope and pricing for such work.

F. WAN Backhaul connection services are not included in this Agreement.

6. General Terms and Conditions.

A. Infringement Indemnity. Sensus shall indemnify and hold harmless Customer from and against any judgment by a court of competent jurisdiction or settlement reached by Sensus from any litigation instituted against Customer in the United States by a third party to the extent alleging that the FlexNet System as provided hereunder infringes upon the patents or copyrights of such third party, provided that Sensus shall have the right to select counsel in such proceedings and control such proceedings and any settlement. Notwithstanding the foregoing, Sensus shall have no obligation or liability under this indemnity unless Customer cooperates fully with and assists Sensus in any such proceedings and gives Sensus written notice of any claim hereunder within fourteen (14) days of receiving it. Further, Sensus shall have no obligation or liability hereunder if such claim is related to; (i) any change, modification or alteration made to the FlexNet System by Customer or a third party, (ii) use of the FlexNet System in combination with any goods or services not provided by Sensus hereunder, (iii) Customer's failure to use the most recent version of the Software or to otherwise take any corrective action as reasonably directed by Sensus, (iv) compliance by Sensus with any designs, specifications or instructions provided by Customer or compliance by Sensus with an industry standard, or (v) any use of the FlexNet System other than for the Permitted Use or in a manner that exceeds the licenses and rights provided herein. In the event the FlexNet System is adjudicated to infringe a patent or copyright of a third party and its use is enjoined, or, if in the reasonable opinion of Sensus, the FlexNet System is likely to become the subject of an infringement claim, Sensus, at its sole discretion and expense, may at its option; (i) procure for Customer the right to continue using the FlexNet System or (ii) modify or replace the FlexNet System so that it becomes non-infringing. THIS SECTION STATES CUSTOMER'S SOLE AND EXCLUSIVE REMEDY AND SENSUS' ENTIRE LIABILITY AND OBLIGATION FOR ANY CLAIM OF INFRINGEMENT.

B. Limitation of Liability. Sensus' aggregate liability in any and all causes of action arising under, out of or in relation to this Agreement, its negotiation, performance, breach or termination (collectively "Causes of Action") shall not exceed the greater of; (a) the total amount paid by Customer directly to

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Sensus under this Agreement; or (b) ten thousand US dollars (USD 10,000.00). This is so whether the Causes of Action are in tort, including, without limitation, negligence or strict liability, in contract, under statute or otherwise. As separate and independent limitations on liability, Sensus' liability shall be limited to direct damages. Sensus shall not be liable for; (i) any indirect, incidental, special or consequential damages; nor (ii) any revenue or profits lost by Customer or its Affiliates, including from any End User(s), irrespective whether such lost revenue or profits is categorized as direct damages or otherwise; nor (iii) any In/Out Costs; nor (v) damages arising from maincase or bottom plate breakage caused by freezing temperatures, water hammer conditions, or excessive water pressure. The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

C. **Termination.** Either party may terminate this Agreement earlier if the other party commits a material breach of this Agreement and such material breach is not cured within forty-five (45) days of written notice by the other party. Upon any expiration or termination of this Agreement, Sensus' and Customer's obligations hereunder shall cease and the software as a service and Spectrum Lease shall immediately cease.

D. **Force Majeure.** If Sensus becomes unable, either wholly or in part, by an event of Force Majeure, to fulfill its obligations under this Agreement, the obligations affected by the event of Force Majeure will be suspended during the continuance of that inability. The party affected by the force majeure will take reasonable steps to mitigate the Force Majeure. Notwithstanding anything herein to the contrary, in no event will Sensus be liable for the consequences or impact of any Force Majeure event.

E. **Temporary Service Suspension.** Sensus may suspend the Services without liability if: (i) Customer fails to pay Sensus or its authorized distributor when payment is due; (ii) Sensus reasonably believes that the Services are being used in violation of the Agreement; (iii) Sensus is required by applicable law or by a regulatory or government body to suspend Customer's access to the Services; (iv) a Force Majeure event requires Sensus to suspend Customer's access; or (v) there is another event for which Sensus reasonably believes that the suspension of Services is necessary to protect the Services. Sensus will give Customer advance notice of a suspension where reasonably possible under the circumstances. If a suspension is based on Customer's breach of Customer's obligations under the Agreement, Sensus may continue to charge Customer the fees for the Services during suspension.

F. **Intellectual Property Rights.**

i. Software and Materials. No Intellectual Property is assigned to Customer hereunder. Excluding Customer Data, Sensus shall own or continue to own all right, title, and interest in and to the Intellectual Property associated with the Software and related documentation, including any derivations and/or derivative works (the "Sensus IP"). To the extent, if any, that any ownership interest in and to such Sensus IP does not automatically vest in Sensus by virtue of this Agreement or otherwise, and instead vests in Customer, Customer agrees to grant and assign and hereby does grant and assign to Sensus all right, title, and interest that Customer may have in and to such Sensus IP. Customer agrees not to reverse engineer any Sensus Products purchased or provided hereunder.

ii. Customer Data. Notwithstanding the prior paragraph, as between Customer and Sensus, Customer remains the owner of all right, title or interest in or to any Customer Data. "Customer Data" means solely usage data collected by the Field Devices. To avoid doubt, Customer Data does not include non-End User usage data collected by the Field Devices, Software, or FlexNet System, such as network and equipment status information or the like. Customer represents to Sensus that Customer (i) has sufficient rights in all Customer Data, to hold the Customer Data and deliver it to Sensus as required for the Services to be performed as contemplated in the Agreement, and (ii) has obtained (and is responsible for maintaining) from all individuals, persons and third parties whose personal information is contained in the Customer Data all required consents and authorizations, and has provided to all individuals, persons, and third parties the notices with respect to the collection, retention, disclosure and use of the Customer Data as contemplated for the purposes of this Agreement that are required under applicable foreign, federal and state laws and regulations, including but not limited to relevant privacy laws and regulations.

iii. Consent to Use of Customer Data. Customer hereby irrevocably grants to Sensus a world-wide royalty-free, non-exclusive, irrevocable right and license to access, store, and use such Customer Data and any other data or information provided to Sensus, to (1) provide the Service; (2) analyze and improve the Service; (3) analyze and improve any Sensus equipment, software, or service; or (4) for any other internal use. As used herein, "Service" means Sensus' obligations under this Agreement, such as the Software as a Service.

iv. Access to Customer Data. Within 45 days of Customer's written request, Sensus will provide Customer a copy of the previous 24 months of data collected by the FlexNet System in a format of Sensus' discretion and deliver the file to a drop location specified by Customer.

G. **Data Privacy.** Customer acknowledges and agrees that Sensus and its Affiliates (collectively, "Xylem") may collect and process personal data for the purposes outlined in this Agreement and in Xylem's then-current privacy policy. Xylem's data privacy policy is available and maintained at https://www.xylem.com/en-us/support/privacy/ or any successor web page designated by Xylem from time-to-time. The collection and use of personal data by Customer, including providing necessary notices and obtaining required consents from end users, is Customer's sole responsibility.

H. **Right to use Feedback.** Customer grants Sensus a royalty-free, worldwide, irrevocable, perpetual license to use, aggregate, alter or incorporate into the Services any suggestions, enhancement requests, recommendations or other feedback provided by Customer or its employees and agents.

I. **Confidentiality.** Except as may be required under applicable law, court order, or regulation, or to the extent permitted under or required to perform and enforce this Agreement, both parties shall (and shall cause their employees and contractors to) keep all Confidential Information strictly confidential and shall not disclose it to any third party. Without limiting any other obligations in this Agreement, Customer shall not provide Sensus's Confidential Information to any person who designs or develops software products or services that compete with Sensus's software products and services. The Confidential Information may be transmitted orally, in writing, electronically or otherwise observed by either party. Notwithstanding the foregoing, "Confidential Information" shall not include; (i) any information that is in the public domain other than due to Recipient's breach of this Agreement; (ii) any information in the possession of the Recipient without restriction prior to disclosure by the Discloser; or (iii) any information independently developed by the Recipient without reliance on the information disclosed hereunder by the Discloser. "Discloser" means either party that discloses Confidential Information, and "Recipient" means either party that receives it. The receiving party will return or destroy the other party's Confidential Information upon receiving written notice from the other party, provided that such return or destruction does not interfere with the receiving party's rights and obligations under this Agreement, including Sensus' right to use Customer Data. The foregoing does not require the receiving party to search its archived electronic back-up files of its computer systems for the other party's Confidential Information to purge such Confidential Information from its archived files; provided, however, that the receiving party must: (i) maintain the confidentiality of such archived Confidential Information as if this Agreement were still in effect and (ii) not use such archived Confidential Information for any purpose.

J. **Compliance with Laws.** Customer shall comply with all applicable country, federal, state, and local laws and regulations, as set forth at the time of acceptance and as may be amended, changed, or supplemented. Customer shall not take any action or permit the taking of any action by a third

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party, which may render Sensus liable for a violation of applicable laws.

i. **Export Control Laws**. Customer shall; (i) comply with all applicable U.S. and local laws and regulations governing the use, export, import, re-export, and transfer of products, technology, and services; and (ii) obtain all required authorizations, permits, and licenses. Customer shall immediately notify Sensus, and immediately cease all activities with regards to the applicable transaction, if the Customer knows or has a reasonable suspicion that the equipment, software, or services provided hereunder may be directed to countries in violation of any export control laws. By ordering equipment, software or services, Customer certifies that it is not on any U.S. government export exclusion list.

ii. **Anti-Corruption Laws**. Customer shall comply with the United States Foreign Corrupt Practices Act (FCPA), 15 U.S.C. §§ 78dd-1, et seq.; laws and regulations implementing the OECD's Convention on Combating Bribery of Foreign Public Officials in International Business Transactions; the U.N. Convention Against Corruption; the Inter-American Convention Against Corruption; and any other applicable laws and regulations relating to anti-corruption in the Customer's county or any country where performance of this Agreement, or delivery or use of equipment, software or services will occur.

K. **Non-Waiver of Rights.** A waiver by either party of any breach of this Agreement or the failure or delay of either party to enforce any of the articles or other provisions of this Agreement will not in any way affect, limit or waive that party's right to enforce and compel strict compliance with the same or other articles or provisions.

L. **Assignment and Sub-contracting.** Either party may assign, transfer or delegate this Agreement without requiring the other party's consent; (i) to an Affiliate; (ii) as part of a merger; or (iii) to a purchaser of all or substantially all of its assets. Apart from the foregoing, neither party may assign, transfer or delegate this Agreement without the prior written consent of the other, which consent shall not be unreasonably withheld. Furthermore, Customer acknowledges Sensus may use subcontractors to perform RF Field Equipment installation, the systems integration work (if applicable), or project management (if applicable), without requiring Customer's consent.

M. **Amendments.** No alteration, amendment, or other modification shall be binding unless in writing and signed by both Customer and by a vice president (or higher) of Sensus.

N. **Governing Law and Dispute Resolution.** This Agreement shall be governed by, construed and enforced in accordance with the laws of the State of Delaware. Any and all disputes arising under, out of, or in relation to this Agreement, its negotiation, performance or termination ("Disputes") shall first be resolved by mediation between the Parties. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE PARTIES AGREE TO A BENCH TRIAL AND THAT THERE SHALL BE NO JURY IN ANY DISPUTES.

O. **Survival.** The provisions of this Agreement that are applicable to circumstances arising after its termination or expiration shall survive such termination or expiration.

P. **Severability.** In the event any provision of this Agreement is held to be void, unlawful or otherwise unenforceable, that provision will be severed from the remainder of the Agreement and replaced automatically by a provision containing terms as nearly like the void, unlawful, or unenforceable provision as possible; and the Agreement, as so modified, will continue to be in full force and effect.

Q. **Four Corners.** This written Agreement, including all of its exhibits, represents the entire understanding between and obligations of the parties and supersedes all prior understandings, agreements, negotiations, and proposals, whether written or oral, formal or informal between the parties. Any additional writings shall not modify any limitations or remedies provided in the Agreement. There are no other terms or conditions, oral, written, electronic or otherwise. There are no implied obligations. All obligations are specifically set forth in this Agreement. Further, there are no representations that induced this Agreement that are not included in it. The ONLY operative provisions are set forth in writing in this Agreement. Without limiting the generality of the foregoing, no purchase order placed by or on behalf of Customer shall alter any of the terms of this Agreement. The parties agree that such documents are for administrative purposes only, even if they have terms and conditions printed on them and even if and when they are accepted and/or processed by Sensus. Any goods, software or services delivered or provided in anticipation of this Agreement (for e.g., as part of a pilot or because this Agreement has not yet been signed but the parties have begun the deployment) under purchase orders placed prior to the execution of this Agreement are governed by this Agreement upon its execution and it replaces and supersedes any such purchase orders.

R. **Counterparts.** This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Additionally, this Agreement may be executed by facsimile or electronic copies, all of which shall be considered an original for all purposes.

7. **Definitions. As used in this Agreement, the following terms shall have the following meanings:**

A. **"*Affiliate*"** of a party means any other entity controlling, controlled by, or under common control with such party, where "control" of an entity means the ownership, directly or indirectly, of 50% or more of either; (i) the shares or other equity in such entity; or (ii) the voting rights in such entity.

B. "***Confidential Information***" means any and all non-public information of either party, including all technical or performance information about either party's products or services, pricing information, marketing and marketing plans, Customer's End Users' data, FlexNet System performance, FlexNet System architecture and design, FlexNet System software, other business and financial information of either party, and all trade secrets of either party. For the avoidance of doubt, information about the performance, operation, specifications, or features of the Services and FlexNet System is the Confidential Information of Sensus.

C. **"*End User*"** means any end user of electricity, water, and/or gas (as applicable) that pays Customer for the consumption of electricity, water, and/or gas, as applicable.

D. ***"Engineering Support"*** means providing Patches and Updates to Software.

E. "***Field Devices***" means the SmartPoint Modules .

identifies [redacted]

G. **"*FlexNet System*"** is comprised of the SmartPoint Modules, RF Field Equipment, Server Hardware, software licenses, Spectrum Lease, and other equipment provided to Customer hereunder. The FlexNet System only includes the foregoing, as provided by Sensus. The FlexNet System does not include goods, equipment, software, licenses or rights provided by a third party or parties to this Agreement.

H. "***Force Majeure***" means an event beyond a party's reasonable control, including, without limitation, acts of God, hurricane, flood, volcano, tsunami, tornado, storm, tempest, mudslide, vandalism, pandemic, illegal misconduct, sabotage, interruptions in power, communications or Internet service, acts of governments or government-backed actors, illegal or unauthorized radio frequency interference, strikes, lockouts, or other industrial disturbances, unavailability of component parts of any goods provided hereunder, acts of public enemies, wars, blockades, embargoes, insurrections, riots, epidemics, earthquakes, fires, restraints or prohibitions by any court, board, department, commission or agency of the United States or any States, any arrests and restraints, civil disturbances and explosion.

I. ***"Hosted Software"*** means those items listed as an Application in Exhibit A.

J. "***In/Out Costs***" means any costs and expenses incurred by Customer in transporting goods between its warehouse and its End User's premises and any costs and expenses incurred by Customer in installing, uninstalling and removing goods.

K. I means patents and patent applications, inventions (whether patentable or not), trademarks, service marks, trade dress, copyrights, trade secrets, know-how,

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data rights, specifications, drawings, designs, maskwork rights, moral rights, author's rights, and other intellectual property rights, including any derivations and/or derivative works, as may exist now or hereafter come into existence, and all renewals and extensions thereof, regardless of whether any of such rights arise under the laws of the United States or of any other state, country or jurisdiction, any registrations or applications thereof, and all goodwill pertinent thereto.

L. "***LCM***" identifies the load control modules.

M. ***"Licensed Software"*** means the Software licensed hereunder pursuant to the terms of the Agreement.

N. [redacted]

O. "***Patches***" means patches or other maintenance releases of the Software that correct processing errors and other faults, vulnerabilities and defects found in the Software. For clarity, Patches are not Updates or Upgrades.

P. "***Permitted Use"*** means only for reading and analyzing data from Customer's Field Devices in the Service Territory. The Permitted Use does not include reading third devices not provided by Sensus or reading Field Devices outside the Service Territory.

Q. ***"R100 Unit"*** identifies the Sensus standalone, mounted transceiver that takes the radio frequency readings from the SmartPoint Modules and relays them by radio frequency to the relevant FlexNet Base Station or directly to the RNI by TCP/IP backhaul communication, as the case may be.

R. **"*Release*"** means both Updates and Upgrades.

S. identifies [redacted]

T. [redacted]

U. [redacted]

V. **"*RNI*"** identifies the regional network interfaces consisting of hardware and software used to gather, store, and report data collected by the FlexNet Base Stations from the SmartPoint Modules. The RNI hardware specifications will be provided by Sensus upon written request from Customer.

W. **"*RNI Software*"** identifies the Sensus proprietary software used in the RNI and any Patches, Updates, and Upgrades that are provided to Customer pursuant to the terms of this Agreement.

X. **"*Security Breach"*** means a cybersecurity incident whereby an unauthorized third party intentionally compromises the security of Customer's tenant environment in Sensus' Software as a Service solution and gains access to Customer's tenant environment and data.

Y. ***"Service Territory"*** identifies the geographic area where Customer utilizes Sensus equipment to provide services to End Users as of the Effective Date. This area will be described on the propagation study in the parties' Spectrum Lease filing with the FCC.

Z. **"*Server Hardware*"** means the RNI hardware.

AA. identifies [redacted]

BB. **"*Software*"** means all the Sensus proprietary software provided as a service pursuant to this Agreement, and any Patches, Updates, and Upgrades that are provided to Customer pursuant to the terms of this Agreement. The Software does not include any third party software.

CC. ***"Technical Support"*** means the services set forth on Exhibit B.

DD. **"*Updates*"** means releases of the Software that constitute a minor improvement in functionality.

EE. **"*Upgrades*"** means releases of the Software which constitute a significant improvement in functionality or architecture of the Software.

FF. [redacted]

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Exhibit A
Software

Software as a Service

1. Description of Services.

This exhibit contains the details of the SaaS that Sensus shall provide to Customer if both; (i) pricing for the application of Software as a Service has been provided to the Customer; and (ii) the Customer is current in its payments to Sensus' authorized distributor for such application of Software as a Service.

A. Software as a Service Generally.

SaaS is a managed service in which Sensus will be responsible for the day-to-day monitoring, maintenance, management, and supporting of Customer's Software tenant in Sensus' (or its subcontractor's) data centers. In a Software as a Service solution, Sensus owns (or has third parties operate or provide on its behalf) all components of the solution (server hardware, storage, data center, network equipment, Sensus software, and all third-party software) required to run and operate the Applications listed below. These software applications consist of the following (each an "Application"):

- Regional Network Interface (RNI) Software
- Sensus Analytics Software
- Utility Data Lake

The managed application systems consist of the hardware, Sensus Software, and other third-party software that is required to operate the Applications. Each Application will have a production and disaster recovery (as described below) environment Test environments are not provided unless otherwise specifically agreed by Sensus in writing. Sensus will manage the Applications by providing 24 x 7 x 365 monitoring of the availability and performance of the Applications.

B. Use of Software as a Service. Subject to the terms of this Agreement, Sensus shall make Software as a Service available to Customer to access and use solely for the Permitted Use and solely for so long as Customer is current in its payments to Sensus or its authorized distributor for Software as a Service. The Software as a Service term commences on the date that Sensus first makes Software as a Service available to Customer for use and ends upon the earlier of: (i) the expiration or termination of the Agreement; (ii) breach by Customer of this exhibit or the Agreement; or (iii) Customer's termination of Software as a Service as set forth in paragraph (C) below.

C. Termination of an Application. Customer shall have the option at any time before the end of the Term to terminate any Application by giving Sensus one hundred twenty (120) days prior written notice. Such notice, once delivered to Sensus, is irrevocable. Should Customer elect to terminate any Application, Customer acknowledges that; (a) Customer shall pay all applicable fees, including any unpaid Software as a Service fees due in the current calendar year plus a ten percent (10%) early termination fee, where such fee is calculated based on the annual Software as a Service fee due in the current calendar year; and (b) Software as a Service for such Application shall immediately cease. If Customer elects to terminate the RNI Application in the Software as a Service environment but the Agreement has not expired or terminated, then upon delivery of the notice to Sensus, Customer shall purchase the necessary (a) RNI hardware from a third party and (b) RNI software license at Sensus' then-current pricing. No portion of the Software as a Service fees shall be applied to the purchase of the RNI hardware or software license.

D. Software as a Service means only the following services:

i. Sensus will provide the use of required hardware and or virtual environments, located at Sensus' or a third-party's data center facility (as determined by Sensus), that is necessary to operate the Application.

ii. Sensus will provide production and disaster recovery environments for Applications.

iii. Sensus will provide Patches, Updates, and Upgrades to latest Sensus Hosted Software release.

iv. Sensus will configure and manage the equipment (server hardware, routers, switches, firewalls, etc.) in the data centers:
   a. Network addresses and virtual private networks (VPN)
   b. Standard time source (NTP or GPS)
   c. Security access points
   d. Respond to relevant alarms and notifications.

v. Capacity and performance management. Sensus will:
   a. Monitor capacity and performance of the Application server and software applications 24x7x365 using KPI metrics, thresholds, and alerts to proactively identify any potential issues related to system capacity and/or performance (i.e., database, backspool, logs, message broker storage, etc.)
   b. If an issue is identified to have a potential impact to the system, Sensus will open an incident ticket and manage the ticket through resolution per Exhibit B, Technical Support.
   c. Manage and maintain the performance of the server and perform any change or configuration to the server, in accordance to standard configuration and change management policies and procedures.
   d. Manage and maintain the server storage capacity and performance of the Storage Area Network (SAN), in accordance to standard configuration and change management policies and procedures.
   e. Exceptions may occur to the system that require Sensus to take immediate action to maintain the system capacity and performance levels, and Sensus has authority to make changes without Customer approval as needed, in accordance to standard configuration and change management policies and procedures.

vi. Database management. Sensus will:
   a. Implement the data retention plan and policy and will provide the policy upon request.
   b. Monitor space and capacity requirements.
   c. Respond to database alarms and notifications.
   d. Install database software Upgrades and Patches.
   e. Perform routine database maintenance and cleanup of database to improve capacity and performance, such as rebuilding indexes,

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updating indexes, consistency checks, run SQL query/agent jobs, etc.

vii. Incident and Problem Management. Sensus will:
   a. Proactively monitor managed systems (24x7x365) for key events and thresholds to detect and identify incidents.
   b. Respond to incidents and problems that may occur to the Application(s).
   c. Maintain policies and procedures for responding to incidents and performing root cause analysis for ongoing problems.
   d. Correlate incidents and problems where applicable.
   e. Sensus personnel will use the self-service portal to document and track incidents.
   f. In the event that Sensus personnel is unable to resolve an issue, the issue will be escalated to the appropriate Subject Matter Expert (SME).
   g. Maintain responsibility for managing incident and problems through resolution (which may include workarounds) and will coordinate with Customer's personnel and/or any required third-party vendor to resolve the issue.
   h. Provide telephone support consistent with Exhibit B, Technical Support in the case of undetected events.

viii. Security Management. Sensus will:
   a. Monitor the physical and cyber security of the server and Application(s) 24x7x365 to ensure system is secure, consistence with NIST security standards.
   b. Perform intrusion prevention and detection of the data center network and firewalls and monitor logs and alerts.
   c. Conduct periodic penetration testing of the network and data center facilities.
   d. Conduct monthly vulnerability scanning by both internal staff and external vendors.
   e. Perform anti-virus and Malware patch management on systems.
   f. Install updates to virus protection software and related files (including virus signature files and similar files) on all servers from the update being generally available from the anti-virus software provider.
   g. Respond to threats found on the system and work to eliminate any virus or malware found.
   h. Adhere to and submit certification to NERC/CIP Cyber Security standards.
   i. Monitors industry regulations/standards regarding security – NERC, FERC, NIST, OpenSG, etc. through the Sensus security team.
   j. Provide secure web portal access (SSL) to the Application(s).

ix. Backup and Disaster Recovery Management. Sensus will:
   a. Perform daily backups of data providing one (1) year of history for auditing and restoration purposes.
   b. Back-up and store data (on tapes or other storage media as appropriate) off-site to provide protection against disasters and to meet file recovery needs.
   c. Conduct incremental and full back-ups to capture data, and changes to data, on the Application(s).
   d. Replicate the Application(s) environments to a geographically separated data center location to provide a full disaster recovery environment for the Application production system.
   e. Generate a report following each and any disaster measuring performance against the disaster recovery plan and identification of problem areas and plans for resolution.
   f. Maintain a disaster recovery plan. In the event of a disaster, Sensus shall provide the services in accordance with the disaster recovery plan.
   g. In the case of a disaster and loss of access to or use of the Application, Sensus would use commercially reasonable efforts per the Recovery Time Objectives ("RTO") and Recovery Point Objectives (RPO) specified herein to restore operations at the same location or at a backup location within forty-eight (48) hours.
   h. The Application shall have a "RTO" of forty-eight (48) hours.
   i. The RPO shall be a full recovery of the Application(s), with an RPO of one (1) hour, using no more than a twenty-four (24) hour old backup. All meter-related data shall be pushed from each Base Station/TGB restoring the database to real-time minus external interfaced systems from the day prior.
   j. Data from external interfaced systems shall be recreated within a forty-eight (48) hour period with the assistance of Customer personnel and staff, as needed.

E. Customer Responsibilities:

i. Coordinate and schedule any changes submitted by Sensus to the system in accordance with standard configuration and change management procedures.
ii. Participate in all required configuration and change management procedures.
iii. Customer will log incidents related to the managed Application with Sensus personnel via email, web portal ticket entry, or phone call.
iv. Responsible for periodic processing of accounts or readings (i.e., billing files) for Customer's billing system for billing or other analysis purposes.
v. Responsible for any field labor to troubleshoot any SmartPoint modules or smart meters in the field in populations that have been previously deployed and accepted.
vi. First response labor to troubleshoot FlexNet Base Station, R100s, Remote Transceivers or other field network equipment.
vii. Responsible for local area network security, configuration, management, and support.
viii. Identify and research problems with meter reads and meter read performance.
ix. Create and manage user accounts, and periodically change and update account credentials with strong passwords in accordance with security best practices.
x. Customize application configurations.
xi. Support application users.
xii. Investigate application operational issues (e.g., meter reads, reports, alarms, etc.).
xiii. Respond to alarms and notifications.
xiv. Perform firmware upgrades over-the-air, or delegate and monitor field personnel for on-site upgrades.
xv. Maintain industry standard cybersecurity controls, standards, and best practices.
xvi. Monitor for and promptly implement Patches, Updates, and Upgrades, both as provided by Sensus and other third-party software and hardware

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providers.

F. **Software as a Service** does not include any of the following services:

i. Parts or labor required to repair damage to any field network equipment that is the result of a Force Majeure event.

ii. Any integration between applications, such as Harris MeterSense, would require a Professional Services contract agreement to be scoped, submitted, and agreed in a signed writing between Sensus and all the applicable parties.

If an item is not listed in subparagraphs in item (D) above, such item is excluded from the Software as a Service and is subject to additional pricing.

2. Further Agreements

A. System Uptime Rate.

i. Sensus (or its contractor) shall manage and maintain the Application(s) on computers owned or controlled by Sensus (or its contractors) and shall provide Customer access to the managed Application(s) via internet or point to point connection (i.e., Managed-Access use), according to the terms below. Sensus endeavors to maintain an average System Uptime Rate equal to ninety-nine (99.0) per Month (as defined below). The System Uptime Rate, cumulative across all Applications, shall be calculated as follows:

$$\text{System Uptime Rate} = \frac{100 \times (\text{TMO} - \text{Total Non-Scheduled Downtime minutes in the Month})}{\text{TMO}}$$

ii. **Calculations**

a. ***Targeted Minutes of Operation*** or ***TMO*** means total minutes cumulative across all Applications in the applicable month minus the Scheduled Downtime in the Month.

b. ***Scheduled Downtime*** means the number of minutes during the Month, as measured by Sensus, in which access to any Application is scheduled to be unavailable for use by Customer due to planned system maintenance. Sensus shall provide Customer notice (via email or otherwise) at least seven (7) days in advance of commencement of the Scheduled Downtime.

c. ***Non-Scheduled Downtime*** means the number of minutes during the Month, as measured by Sensus, in which access to any Application is unavailable for use by Customer due to reasons other than Scheduled Downtime or the Exceptions, as defined below (e.g., due to a need for unplanned maintenance or repair).

iii. **Exceptions**. Exceptions mean the following events:

- Force Majeure;
- Emergency Work, as defined below; and
- Lack of Internet Availability, as described below.

a. **Emergency Work**. In the event that Force Majeure, emergencies, security incidents, dangerous conditions or other exceptional circumstances arise or continue during TMO, Sensus shall be entitled to take any actions that Sensus, in good faith, determines is necessary or advisable to prevent, remedy, mitigate, or otherwise address actual or potential harm, interruption, loss, threat, security or like concern to any of the Application(s) ("Emergency Work"). Such Emergency Work may include, but is not limited to: analysis, testing, repair, maintenance, re-setting and other servicing of the hardware, cabling, networks, software and other devices, materials and systems through which access to and/or use of the Application(s) by the Customer is made available (the "Managed Systems"). Sensus shall endeavor to provide advance notice of such Emergency Work to Customer when practicable and possible.

b. **Lack of Internet Availability.** Sensus shall not be responsible for any deterioration of performance attributable to latencies in the public internet or point-to-point network connection operated by a third party. Customer expressly acknowledges and agrees that Sensus does not and cannot control the flow of data to or from Sensus' networks and other portions of the Internet, and that such flow depends in part on the performance of Internet services provided or controlled by third parties, and that at times, actions or inactions of such third parties can impair or disrupt data transmitted through, and/or Customer's connections to, the Internet or point-to-point data connection (or portions thereof). Although Sensus will use commercially reasonable efforts to take actions Sensus may deem appropriate to mitigate the effects of any such events, Sensus cannot guarantee that such events will not occur. Accordingly, Sensus disclaims any and all liability resulting from or relating to such events.

iv. **System Availability.** For each month that the System Uptime Rates for the production RNI falls below 99.0%, Sensus will issue Customer the following Service Level Credits:

System Uptime Rate per calendar month	Service Level Credit
Less than 99.0% but at least 97.5%	5% of the monthly RNI SaaS Fees in which the service level default occurred (Note: SaaS fees are pre-paid annually and for purposes of Service Level Credits are computed on a monthly basis.)
Less than 97.5% but at least 95.0%	10% of the monthly RNI SaaS Fees in which the service level default occurred
Less than 95.0%	20% of the monthly RNI SaaS Fees in which the service level default occurred

Service Level Credits for any single month shall not exceed 20% of the RNI SaaS Fee associated with the month in which the service level default occurred. Sensus records and data will be the sole basis for all Service Level Credit calculations and determinations, provided that such records and data must be made available to Customer for review and agreement by Customer. To receive a Service Level Credit, Customer must issue a written request no later than ten (10) days after the Service Level Credit accrues. Sensus will apply each valid Service Level Credit to the Customer's invoice within 2 billing cycles after Sensus' receipt of Customer's request and confirmation of the failure to meet the applicable Service Level Credit. Service Level Credits will not be payable for failures to meet the System Uptime Rate caused by any Exceptions. No Service Level Credit will apply if Customer is not current in its undisputed payment obligations under the Agreement. Service Level Credits are exclusive of any applicable taxes charged to Customer or collected by Sensus. Sensus shall not refund an unused Service Level Credits or pay cash to Customer for any unused Service Level Credits. Any unused Service Level Credits at the time the Agreement terminates will be forever forfeited. THE SERVICE LEVEL CREDITS DESCRIBED IN THIS SECTION ARE THE SOLE AND EXCLUSIVE REMEDY FOR SENSUS'

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FAILURE TO MEET THE SYSTEM UPTIME REQUIREMENT OR ANY DEFECTIVE SAAS PERFORMANCE. IN NO EVENT SHALL THE AGGREGATE AMOUNT OF SERVICE LEVEL CREDITS IN ANY ANNUAL PERIOD EXCEED 20% OF THE ANNUAL RNI SAAS FEE.

B. Data Center Site-Security. Although Sensus may modify such security arrangements without consent or notice to Customer, Customer acknowledges the following are the current arrangements regarding physical access to and support of the primary hardware components of the Managed Systems:

i. The computer room(s) in which the hardware is installed is accessible only to authorized individuals.
ii. Power infrastructure includes one or more uninterruptible power supply (UPS) devices and diesel generators or other alternative power for back-up electrical power.
iii. Air-conditioning facilities (for humidity and temperature controls) are provided in or for such computer room(s) and can be monitored and adjusted for humidity and temperature settings and control. Such air systems are supported by redundant, back-up and/or switch-over environmental units.
iv. Such electrical and A/C systems are monitored on an ongoing basis and personnel are available to respond to system emergencies (if any) in real time.
v. Dry pipe pre-action fire detection and suppression systems are provided.
vi. Data circuits are available via multiple providers and diverse paths, giving access redundancy.

C. Responsibilities of Customer.

i. Customer shall promptly pay all Software as a Service fees.
ii. Customer may not (i) carelessly, knowingly, intentionally or maliciously threaten, disrupt, harm, abuse or interfere with the Application(s), Managed Systems or any of their functionality, performance, security or integrity, nor attempt to do so; (ii) impersonate any person or entity, including, but not limited to, Sensus, a Sensus employee or another user; or (iii) forge, falsify, disguise or otherwise manipulate any identification information associated with Customer's access to or use of the Application(s).
iii. The provisioning, compatibility, operation, security, support, and maintenance of Customer's hardware and software ("Customer's Systems") is exclusively the responsibility of Customer. Customer is also responsible, in particular, for correctly configuring and maintaining (i) the desktop environment used by Customer to access the Application(s) managed by Sensus; and (ii) Customer's network router and firewall, if applicable, to allow data to flow between the Customer's Systems and Sensus' Managed Systems in a secure manner via the public Internet.
iv. Upon receiving the system administrator account from Sensus, Customer shall create strong username and passwords for each of Customer's authorized users and complete the applicable Sensus registration process (Authorized Users). Such usernames, and passwords will allow Authorized Users to access the Application(s). Customer shall be solely responsible for maintaining the security and confidentiality of each user ID and password pair associated with Customer's account, and Sensus will not be liable for any loss, damage or liability arising from Customer's account or any user ID and password pairs associated with Customer. Customer is fully responsible for all acts and omissions that occur through the use of Customer's account and any user ID and password pairs. Customer agrees (i) not to allow anyone other than the Authorized Users to have any access to, or use of Customer's account or any user ID and password pairs at any time; (ii) to notify Sensus immediately of any actual or suspected unauthorized use of Customer's account or any of such user ID and password pairs, or any other breach or suspected breach of security, restricted use or confidentiality; and (iii) to take the Sensus-recommended steps to log out from and otherwise exit the Application(s) and Managed Systems at the end of each session. Customer agrees that Sensus shall be entitled to rely, without inquiry, on the validity of the user accessing the Application(s) application through Customer's account, account ID, usernames, or passwords. Customer will ensure that its user ID and passwords are regularly (at least monthly) changed, and that only strong user ID and password pairs are used.
v. Customer shall be responsible for the day-to-day operations of the Application(s) and FlexNet System. This includes, without limitation, (i) researching problems with meter reads and system performance, (ii) creating and managing user accounts, (iii) customizing application configurations, (iv) supporting application users, (v) investigating application operational issues, (vi) responding to alarms and notifications, and (vii) performing over-the-air commands (such as firmware updates or configuration changes).

D. Software Solution Components.

i. **Description of Software Solutions**. Sensus software consists of a core communication module and a set of applications. Some applications are required to perform basic solution capabilities, other applications are optional and add additional capabilities and function to the overall solution. As Customer's business process expands and/or new Sensus offerings are made available, additional applications and functionality can dynamically be added to the solution, provided Customer purchases such additional applications.
ii. **Regional Network Interface.** The Regional Network Interface (RNI) or Sensus head-end is the centralized intelligence of the FlexNet network; the RNI's primary objective is to transfer endpoint (such as meters) data to the Customer and the advanced feature applications. The RNI is adaptable to Customer configurations by simultaneously supporting a wide range of FlexNet enabled endpoints; including but not limited to meters (electric, water, gas) and other sensing devices.
iii. **Utility Data Lake**. Subject to the terms of this Agreement, Sensus will make the Utility Data Lake ("UDL") available to Customer to access and use solely for the Permitted Use and solely for so long as Customer is current in its payments to Sensus or its authorized distributor for Software as a Service. Sensus shall provide up to three (3) years of FlexNet System data and scan up to five hundred (500) GB per month of FlexNet System data. If Customer exceeds the allotment of five hundred (500) GB per month of scanned data (regardless of the access method) an overage charge will be assessed to Customer and be payable according to the terms outlined by Sensus' authorized distributor. Sensus will also provide Customer UDL training, which includes up to eight (8) hours of professional services consulting time.

3. Sensus Analytics

Sensus Analytics is a cloud-based solution and data platform that allows storage and retrieval of raw reads and data from other sources for analysis, exportation, and inquiry or reporting. The platform provides applications and reporting capabilities.

A. Integration of Sensus Analytics. Sensus shall provide integration support services to Customer only to the extent specifically provided below:

i. Sensus shall provide Customer with a simple flat file specification known as VFlex for the integration of the Customer's back-office system to the Sensus Analytics modules. The VFlex shall contain the following types of information: Device ids, end users in the system, end user status, end user account information, end username, and other end user details. This flat file may be delimited or fixed width. Customer shall produce this file and transmit it to the FTP location designated by Sensus. When sent to the Sensus FTP servers, this file exchange will enable the system to become operational with the Customer's systems. Customer shall produce this file and transmit it to the FTP location designated by Sensus. Sensus will provide reasonable support to explain to Customer the required vs. optional fields that are in the specification, testing and validation

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of the file format and content.

ii. In scope and included integration efforts: kick-off meeting to engage all required parties, mapping the Customer's fields to the VFlex specification, validation of expected output, and a two (2) hour system review of Sensus Analytics application and integration with the Customer's system (conducted remotely).

iii. Out of scope and subject to additional charges will be the transformation of data where business logic including code must be written to modify the field content or format of the data to meet the VFlex specification.

iv. Sensus' integration services consist of four (4) hours of assistance (remote or on-site, as determined by Sensus). If additional time is needed to complete the integration efforts, Sensus shall invoice Customer for additional fees on an actual time and materials basis.

v. **If an item is not listed in subparagraphs (i) or (ii) above, such item is excluded from the integration of Sensus Analytics Support and is subject to additional pricing.**

vi. **Data Import.** The Sensus Analytics Application contains adapters for the import of data from; (a) Customer's FlexNet System; and/or (b) AutoRead application for handheld and drive by systems, as applicable.

vii. **Customer Acknowledgements.**

a. Customer acknowledges that the Sensus Analytics Application provides up to fifty (50) user logins for Customer's use.

b. Customer acknowledges and agrees the Sensus Analytics Application is based upon the actual number of End Users within Customer's Service Territory. Pricing may increase if Customer's Service Territory or actual number of End Users expands.

c. Customer acknowledges that all data related to the Sensus Analytics Applications is geographically hosted within the United States of America. Customer accepts the geographic location of such hosting and indemnifies Sensus for any claims resulting therefrom.

d. Customer acknowledges and agrees that the Intellectual Property provisions of this Agreement apply in all respects to Customer's access to and use of the Sensus Analytics Applications.

e. Customer is responsible for validating the data analyzed by the Sensus Analytics Applications. Sensus makes no promises of improving Customer's operations or saving Customer money, nor is Sensus liable for any damages resulting from decisions made by Customer related to Customer's use of Sensus Analytics.

f. Customer acknowledges that data will be stored for three (3) years from upload and Sensus may delete the data after this time or upon termination of the Agreement.

4. Third Party Software.

A. Sensus incorporates various third-party software in its Software, and such third-party software may change from time to time. Sensus takes reasonable efforts to implement patches or other fixes as they become available in accordance with a particular version's Engineering Support policy. Upon written request by Customer. Sensus shall provide a software bill of materials (SBOM) in a file format of Sensus' discretion which lists the third-party software applications and versions incorporated in the Sensus Software. To the extent required by a third-party software provider. Customer hereby agrees to abide by a third-party's end-user license agreement (EULA).

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Exhibit B
Technical Support

1. **Introduction**

Sensus Technical Services provides utility customers with a single point of contact for Tier 1 support of technical issues as well as any coordination of additional resources required to resolve the issue. Requests that require specialized skills are to be forwarded to a senior support engineer or Technical Advisor within the team for further analysis. If Technical Services has exhausted all troubleshooting efforts for the product type, the issue will escalate to the Engineering Support Team. Occasionally, on-site troubleshooting/analysis may be required. The preferred order of on-site support is:

a. The Customer (for assistance with the easiest and lowest time-consuming activities such as power on/power off).

b. The local distributor.

c. Sensus employees or contracted personnel, if required to fulfill a contract commitment.

2. **Support Categories**

2.1. General questions regarding functionality, use of product, how-to, and requests for assistance on Sensus AMR, AMI, RF Network Equipment, Metering Products, Sensus Lighting Control, and Demand Response Management System (FlexNet Home).

2.2. Proactive reporting and resolution of problems.

2.3. Reactive reporting to isolate, document, and solve reported hardware/software defects.

2.4. Responding to service requests and product changes.

2.5. Addressing customer inquiries with printed or electronic documentation, examples, or additional explanation/clarification.

3. **Support Hours**

3.1. Standard Support Hours: Toll-free telephone support (1-800-638-3748 option #2) is available Monday thru Friday from 8:00 a.m. EST to 8:00 p.m. EST. After-hours, holiday and weekend support for Severity 1 and Severity 2 issues is available by calling 1-800-638-3748, option #8.

4. **Support Procedures**

4.1. Customer identifies an issue or potential problem and calls Technical Services at 1-800-638-3748 Option #2. The Customer Service Associate or Technical Support Engineer will submit a SalesForce ticket.

4.2. The Customer Service Associate or Technical Support Engineer will identify the caller name and utility by the assigned software serial number, city, and state based on where the call originated. The Customer Service Associate or Technical Support Engineer will require a brief description of the problem symptoms, or error messages depending on nature of the incident. The nature of the problem and severity levels will be mutually agreed upon by both parties (either at the time the issue is entered or prior to upgrading or downgrading an existing issue) using the severity definitions below as a guideline. The severity level is then captured into SalesForce for ticket creation and resolution processing. Any time during the processing of this ticket, if the severity level is changed by Sensus, the customer will be updated.

a. Severity Levels Description:

Sev1 Customer's production system is down. The system is unusable resulting in total disruption of work. No workaround is available and requires immediate attention.

Example: Network mass outage, all reading collection devices inoperable, inoperable head end software (e.g., FlexWare, Sensus MDM). Not able to generate billing files.

Sev2 Major system feature/function failure. Operations are severely restricted; there is a major disruption of work, no acceptable work-around is available, and failure requires immediate attention.

Examples: Examples: Network equipment failure (e.g., FlexNet Echo, FlexNet Remote, Base Station transceiver, or VGB); inoperable reading devices (e.g., AR5500, VXU, VGB, or CommandLink); head end software application has important functionality not working and cannot create export file for billing system operations.

Sev3 The system is usable and the issue doesn't affect critical overall operation.

Example: Minor network equipment failure (e.g., Echo/Remote false alarms or Base Station transceiver false alarms); head end software application operable but reports are not running properly, modification of view or some non-critical function of the software is not running.

4.3. The Customer Service Associate or Technical Support Engineer identifies whether or not the customer is on support. If the customer is not on support, the customer is advised of the service options as well as any applicable charges that may be billed.

4.4. Calls are placed in a queue from which they are accessible to Technical Support Engineers on a first-come-first-served basis. A 1st level Customer Service Associate may assist the customer, depending on the difficulty of the call and the representative's technical knowledge. Technical Support Engineers (Tier 1 support) typically respond/resolve the majority of calls based on their product knowledge and experience. A call history for the particular account is researched to note any existing pattern or if the call is a new report. This research provides the representative a basis and understanding of the account as well as any associated problems and/or resolutions that have been communicated.

1. Technical Services confirms that there is an issue or problem that needs further analysis to determine its cause. The following information must be collected: a detailed description of the issue's symptoms, details on the software/hardware product and version, a description of the environment in which the issue arises, and a list of any corrective action already taken.

2. Technical Services will check the internal database and product defect tracking system, to see if reports of a similar problem exist, and if any working solutions were provided. If an existing resolution is found that will address the reported issue, it shall be communicated to the customer. Once it is confirmed that the issue has been resolved, the ticket is closed.

3. If there is no known defect or support that defines the behavior, Technical Services will work with the customer to reproduce the issue. If the issue can be reproduced, either at the customer site or within support center test lab, Technical Services will escalate the ticket for further investigation / resolution.

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If the issue involves units that are considered to be defective with no known reason, the representative will open a Special Investigation RMA through the SalesForce system. If it is determined that a sample is required for further analysis, the customer will be provided with instructions that detail where to send the product sample(s) for a root cause analysis. Once it is determined that the issue cannot be resolved by Tier 1 resources, the ticket will be escalated to Tier 2 support for confirmation/workarounds to resolve immediate issue. Technical Services will immediately contact the customer to advise of the escalation. The response and escalation times are listed in Section 5. At this time, screen shots, log files, configuration files, and database backups will be created and attached to the ticket.

5. **Response and Resolution Targets.**

Sensus Technical Support will make every reasonable effort to meet the following response and resolution targets:

Severity	Standard Target Response	Standard Target Resolution	Resolution (one or more of the following)
1	30 Minutes	Immediately assign trained and qualified Services Staff to correct the error on an expedited basis. Provide ongoing communication on the status of a correction (24 hours).	• Satisfactory workaround is provided. • Program patch is provided. • Fix incorporated into future release. • Fix or workaround incorporated into SalesForce Knowledge Base.
2	4 hours	Assign trained and qualified Services Staff to correct the error. Provide communication as updates occur (48 hours).	• Satisfactory workaround is provided. • Program patch is provided. • Fix incorporated into future release. • Fix or workaround incorporated into SalesForce Knowledge Base.
3	1 Business Day	30 business days	• Answer to question is provided. • Satisfactory workaround is provided. • Fix or workaround incorporated into SalesForce Knowledge Base. • Fix incorporated into future release.

6. **Problem Escalation Process**.

6.1. If the normal support process does not produce the desired results, or if the severity has changed, the issue may be escalated as follows to a higher level of authority.

6.1.1.1. Severity 1 issues are escalated by Sales or Technical Services to a Supervisor if not resolved within 2 hours; to the Manager level if not resolved within 4 hours; to the Director level if not resolved within the same business day; and to the VP level if not resolved within 24 hours.

6.1.1.2. A customer may escalate an issue by calling 1-800-638-3748, Option 2. Please specify the SalesForce ticket number and the reason why the issue is being escalated.

6.1.1.3. In the event that a customer is not satisfied with the level of support or continual problem with their products, they may escalate a given SalesForce ticket to Manager of Technical Services (1-800-638-3748, Option 2).

7. **General Support Provisions and Exclusions**.

7.1. Sensus provides online documentation for Sensus products, and all Sensus customers are provided access to this online database, which includes operation, configuration and technical manuals. The customer shall provide names and email accounts to Sensus so Sensus may provide access to the product documentation.

7.2. Specialized support from Sensus is available on a fee basis to address support issues outside the scope of this support plan or if not covered under another specific contract or statement of work. For example: specialized systems integration services or out of warranty network equipment repair.

7.3. In the event customer submits a ticket for a version of the Software outside of the Engineering Support window and is not able to resolve the problem without engineering resources. Sensus shall have no obligation to provide Engineering Support and Customer shall upgrade to the most current version of the Software.

7.4. Customer acknowledges that not all problems and bugs with the Software may or can be fixed. The Software and Software as a Service (including third party software used in connection with the Software as a Service) may have security vulnerabilities. Sensus may address vulnerabilities with its Software through Patches, Updates or Upgrades that it makes available from time-to-time. As between the parties, Customer has the obligation to timely implement Patches, Updates and Upgrades.

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ATTACHMENT D: CYBERSECURITY RISK MITIGATION CONTROLS DOCUMENT

TABLE 1: SECURITY CONTROLS FOR CYBERSECURITY

Threat	Security Control
Spoofing – Impersonating an authorized user or asset.	All users and endpoints are validated using authentication and cryptographic keys before performing any actions within the system. This prevents spoofing by unauthorized entities.
Brute Force Attacks – Performing an exhaustive search of all possible values for a security credential or attribute (such as a key, password, or passphrase).	**Endpoint** – The FlexNet system operates on FCC-licensed spectrum. This provides a control against unauthorized communication within Sensus radio space. **FlexNet Base Station and FlexNet Head End System** – Each system is configured with account lockouts and firewall rules to prevent brute force attacks. In addition, third-party controls can be implemented to augment Sensus security controls.
Bypass – Bypassing system security functions and mechanisms.	Validation and verification is performed within the system for functions before the operation can be performed. This includes sessions, authentication, and authorization.
Denial of Service – Overloading the network or system resources.	**Endpoint** – The FlexNet system operates on FCC-licensed spectrum. This provides a control against unauthorized communication within Sensus radio space. **FlexNet Base Station and FlexNet Head End System** – Each system is configured with firewall rules to prevent DOS attacks. In addition, third-party controls can be implemented to augment Sensus security controls.
Hijack – Commandeering one side of an existing authenticated connection.	Session, authentication, and authorization are validated at an application layer to prevent session hijacking. At a network layer, AES-CCM provides a cryptographically verifiable CBC-MAC to ensure the communications have not been altered during transmission. Electric meters and the SonixIQ gas meter support digital signatures to provide an additional layer of protection.
Malware – Deploying malicious software developed for the purposes of doing harm to a computer system or network (such as viruses, Trojan horses, and backdoors).	All Sensus systems running on general-purpose operating systems support the use of antivirus software.

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Threat	Security Control
Man-in-the-Middle (MIM) Attacks – Inserting undetected between two connections, where the attacker can read, insert, and modify messages at will.	Communications at the application layer are secured using TLS, which provides protection for MIM attacks. Communication at the network layer uses AES encryption and CBC-MAC to ensure the integrity of the messages across the network, thereby preventing MIM attacks. Electric meters and the SonixIQ gas meter support digital signatures to provide an additional layer of protection.
Unauthorized Physical Access – Leading to physical damage to or destruction of an asset.	Physical tamper alarms, locks, and seals are available on endpoints and network access points to ensure the physical integrity of the devices.
Privilege Escalation – Causing an unauthorized elevation of privilege.	Role-based access control (RBAC) and integration with well-established authentication/authorization sources (for example, LDAP/Active Directory) provide control over what access is granted. In addition, the application maintains verification of sessions, authentication, and authorization for each request made.
Replay – Creating an unauthorized replay of captured traffic.	All encrypted messages across the network use a time-based quantum to prevent replay. This prevents a malicious attacker from capturing encrypted messages and replaying them at a later time.
Tampering – Modifying, in an unauthorized manner, system data, business data, or configuration information.	Physical tamper alarms, locks, and seals are available on endpoints and network access points to ensure the physical integrity of the devices. Sensitive data is encrypted in the system to prevent tampering or destruction of data.

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ATTACHMENT E: SENSUS METER EVENTS AND ALARMS

Water Meter Events and Alarms

Interval and Register Data

The following fields are included with the interval read. With the exception of the FlexNet ID, these fields are also configurable using field tools.

- **FlexNet ID:** The factory-configured code used to uniquely identify the endpoint.
- **Firmware Version:** The design control number used to uniquely identify the version of the firmware loaded into the endpoint.
- **Latitude/Longitude (LAT/LONG):** The GPS position of the installed endpoint.
- **Top Level State (TLS) or Mode:** The TLS is the setting that determines how the endpoint functions.
    - The three options are: Walk By/Drive By (WB/DB), Fixed Base-Listen after Talk (FB- LAT), Fixed Base-Middle of Minute Communication (FB-MOMComm).
- **Reading Units (cubic feet, cubic meters, liters):** The volumetric units associated with the meter.
- **Index Scale (CCF, MCF, M3):** Identifies the scale on which the meter reading is reported.
- **Reverse Flow threshold (1, 2, 5, 10, 100):** The water SmartPoint communication module can determine the direction of water flow. When the endpoint detects a reverse flow condition, it will accumulate the reverse pulses. When the number of reverse pulses detected exceeds the programmed reverse flow threshold values shown above, the backflow alarm is triggered.
- **Transmit Mode/Rate:** Specifies the format and the rate that reading messages are transmitted from the endpoint to the FlexNet Base Station.
- **Meter Sample Rate (15 minutes; 1, 6, 12 or 24 hours):** specifies how often the endpoint records the current meter reading. These recordings are also known as interval data.

Triggered Alarms

- **High Flow:** The High Flow alarm indicates that the endpoint detects an excessive flow rate of water for a specified duration.
- **Reverse Flow:** The Reverse Flow alarm indicates that the endpoint detects water flowing in the reverse direction through the meter.
- **Low Battery:** Battery voltage is sampled immediately prior to every transmission. If the voltage is less than the threshold (as a default, 3.3 volts), then the Low Battery alarm is raised.

Events and Alarms

Our meter portfolio provides several available smart alarms, enabling you to address issues before they become more costly:

- **Tampering**: Detect register removal as well as magnetic interference to reduce apparent water losses and protect against unauthorized activities.

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- **Low Battery**: Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter is running low.
- **Customer Leak**: Detect continuous consumption of water over a period of time to indicate downstream leaks. This can reduce water loss and leak adjustment costs.
- **Reverse Flow**: Keep untreated water from re-entering your distribution system or deter tampering attempts when reverse flow is detected.
- **High Flow**: Detect broken pipes, high usage, and reduce property damage through an alert triggered when excessive flow rates are recorded.
- **Empty Pipe**: By alerting to the absence of water in the flow tube, you can identify main breaks downstream and water shortages for quicker resolution to ensure water availability. This alarm can also indicate the water meter has been removed from service.
- **Pressure**: Get alerted when water pressure exceeds or falls below the pressure threshold to prevent potential disruptions of service.
- **Temperature**: Get alerted when water temperature exceeds or falls below the temperature threshold so you can take action to better protect your meter and water network assets.

Additional Alarms and Capabilities

Any alarm or event from any endpoint can be reported, filtered, and sorted.

Water SmartPoint Alarms and Events

Sensus FlexNet SmartPoint communication modules provide the following alarms for water meters.

Swapped Meter

Indicates the endpoint has detected that the register has been changed without a proper installation. Swapped Meter is detected by comparing the register serial number from one reading to the next. If it differs, the register has been swapped. Additionally, the alarm can be triggered if the number of reading digits reported from the register differs from one read to the next. That is, if the last read was reporting six digits and the next read reported seven digits, this would be interpreted as a swapped meter.

Leak

Indicates that the endpoint has detected continuous flow for an extended time period: that is, a leak.

High Flow

Indicates that the endpoint has detected an excessive flow rate (high flow).

Meter Comm. Fail

Indicates that the endpoint failed to successfully read the water register – either there was no response from the register, or the reading string was corrupted. Possible causes may be an incorrect or poor connection to the register, a malfunctioning register, or no register connected at all.

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Non-Numeric Read (or meter read malfunction)
Indicates that the endpoint successfully read the water register, but the register indicated an error condition: for example, a stuck encoder wheel.

Backflow

Indicates that the endpoint has detected reverse flow (decreasing reading values) for a specified period of time.

Every four hours, as part of its normal transmission process, the FlexNet SmartPoint communication module measures its battery voltage and temperature under load. This information is then transmitted to the FlexNet Head End System, where the data is stored. The current battery voltage for each SmartPoint is also displayed on its individual meter information page in the FlexNet software, along with other important information.

If the battery voltage is less than 2.7 volts, a Low Battery alarm is triggered at the SmartPoint. This alarm is transmitted to the FlexNet Head End System, where it can generate a Low Battery report. The Low Battery alarm field can be monitored on a daily basis.

Tamper Exception Report

The Tamper Exception report is generated if tampering is detected at the transmitter or at the wire between the meter and transmitter. The SmartPoint transmits an alarm advising the utility that the connection between the register and the SmartPoint has been disabled. This allows the utility to investigate a tamper situation that may be present. The alarm is transmitted during the preprogrammed transmit intervals.

ally Water Meter

ally meters have several smart alarms designed to protect utilities' investments and enhance customer service. These alarms include:

- Empty Pipe
  - By alerting to the absence of water in the flow tube, the Empty Pipe alarm helps utilities identify main breaks downstream and water shortages for quicker resolution to ensure water availability to end consumers. This alarm can also indicate the water meter has been removed from service.
- Tampering
  - The ally meter detects magnetic interference and alerts the utility to help reduce apparent water losses and better protect against unauthorized activities.
- Low Battery
  - The Low Battery alarm prompts the utility to replace its meters before they stop recording consumption through alerts indicating that battery capacity to the meter or valve is running low. The ally meters battery is warranted for 15 years.
- Continuous Flow

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- The ally meter detects continuous consumption of water over a period of time to indicate downstream leaks. This protects the utility's infrastructure, as well as end consumers, by helping utilities identify leaks and thus reduce leak adjustment costs.

- Reverse Flow
  - The ally meter helps keep untreated water from re-entering the distribution system and deters tampering attempts through an alarm triggered when reverse flow is detected at the meter.
- High Flow
  - The ally meter detects broken pipes and reduces property damage through an alert triggered by the detection of excessive flow rates.
- Pressure
  - The Pressure alarm alerts the utility when water pressure exceeds or falls below the set pressure thresholds, preventing potential disruptions of service.
- Temperature
  - The Temperature alarm alerts the utility when water temperature exceeds or falls below the temperature thresholds, so that action can be taken to protect meter and water network assets.

iPERL Water Meter

Quick resolution of field issues is made possible with Sensus' iPERL water meter, which transmits configurable smart water alarms, including the following.

- Low Battery (Voltage)
  - When battery voltage drops below 2.5 volts, the Low Battery alarm alerts the utility that the battery will expire soon and that the meter needs to be changed. The iPERL meter battery is warranted for 20 years.
- Low Battery (Time)
  - When a meter has been deployed for more than 19 years, the meter sends alerts at the 19-year mark and the 19.5-year mark that the battery will expire soon and the meter needs to be replaced.
- Magnetic Tampering
  - This alarm alerts the utility if the meter cannot regulate its magnetic field in a 15-minute timeframe, so that the utility can investigate whether a strong magnet or magnetic interference is being used to tamper with the meter.
- Empty Pipe
  - The Empty Pipe alarm alerts the utility if no water is detected for 1 minute. This could happen, for example, if a water main breaks and causes an empty pipe.
- Reverse Flow

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- The meter detects whether water is flowing in reverse in the pipe, and if continuous reverse flow at any rate occurs for 15 minutes, the Reverse Flow alarm is triggered. Reverse flow may occur due to a water main break.

- Continuous Flow
  - If the meter identifies a leak, the continuous flow alarm is triggered to alert the utility. A leak is defined as continuous forward flow at any rate for 24 to 180 hours (programmable).

SR II Water Meter

The SR II's Electronic Register+ supports alarms that alert the utility to potential issues before they become more costly:

- Tampering
  - The Tampering alarm detects register removal, as well as magnetic interference, to reduce apparent water losses and protect against unauthorized activities.
- Low Battery
  - The Low Battery alarm advises the utility to replace its meters before they stop recording consumption by indicating that the battery capacity to the meter is running low. The SR II meter battery is warranted for 20 years.
- Continuous Flow
  - The Continuous Flow alarm detects continuous consumption of water over a period of time to indicate downstream leaks, providing utilities with the ability to reduce water loss and leak adjustment costs.
- Reverse Flow
  - The Reverse Flow alarm helps prevent untreated water from re-entering the distribution system and deter tampering attempts when reverse flow is detected.
- High Flow
  - The SR II meter detects broken pipes and high usage, and reduces property damage through an alert triggered when excessive flow rates are recorded.

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Electric Meter Alarms

Electric meters have been designed to be the utility's eyes and ears in the field, and they monitor their services 24x7x365 for a variety of conditions and quickly transmit alarms to the FlexNet Head End System when they spot a condition that should be reported to alert your team of potential issues. Critical alarms are transmitted immediately to the FlexNet Head End System when they occur to ensure that the utility is informed on field conditions as quickly as possible.

Alarms are visible on the Alerts tab of the FlexNet Head End System dashboard and can easily be identified and reported on for quick analysis and action.

The head end supports the ability to send email and SMS notifications to designated utility personnel to provide immediate notification. In addition, alarms can also be passed along to existing downstream systems via integrations so your team can view them in the software they are familiar with.

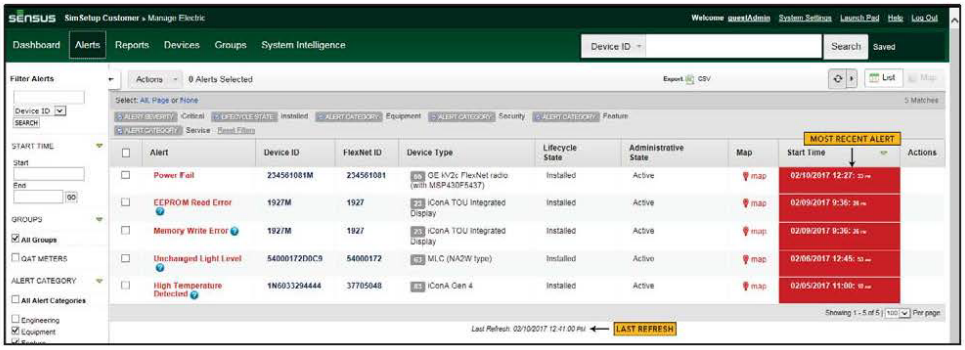


FIGURE 1: ALERTS DISPLAYED IN THE FLEXNET HEAD END SYSTEM

Stratus IQ Electric Meter Alarms

The following table describes alarms, errors, warnings, frequencies, and resolutions generated by a Sensus Stratus IQ electric meter.

TABLE 1: SENSUS STRATUS IQ ALARMS GENERATED BY METER

Alarm	Meaning	Frequency
Brownout	Voltage Sag. Set if the minimum voltage level is less than the configured Low Voltage threshold.	One alarm message is sent; the alarm stays enabled until reset of the voltage averaging window (VAW).

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Alarm	Meaning	Frequency
Calibration Data Read Error	The meter cannot access the calibration data.	One alarm message is sent, repeated each Voltage Average Window.
Clink Count	Count of the number of short power outages that last a few line cycles – called clicks. Minimum duration is configurable; most utilities use 1/10th of a second.	Click Count can be transmitted several ways: - in a snapshot and sent with every load profile message - once per day - can configure click count as a Load Profile channel and sent with every load profile message
Current Auto-Open (CAO)	Current above set threshold. Service switch opened.	Alarm sent upon occurrence.
Disconnect Corrected	When enabled in the meter's program, the meter will automatically auto-correct its service switch back to its previous position. Often the service switch has had its position changed due to tampering.	Alarm sent upon occurrence.
Disconnect Fail	There is a problem with the meter's service switch.	Alarm sent upon occurrence.
High Temperature	Socket temperatures exceed high temperature thresholds	Alarm sent upon occurrence.
Over Voltage	Voltage Swell. Set when the maximum voltage level exceeds the configured High Voltage threshold.	One alarm message is sent; the alarm stays enabled until reset of the voltage average window.

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Alarm	Meaning	Frequency
RD (Remote Disconnect) Error	This alarm is sent when one of the following conditions occur: The meter's internal service switch did not move to the correct position after a command or the meter's service switch auto-correct alarm message was sent. The RD switch moved to an unexpected position. The RD switch has been bypassed or bridged. The RD switch is open but current is flowing.	Alarm sent upon occurrence.
RD Position Changed	The Remote Disconnect position changed but not by a user command.	Alarm sent upon occurrence.
Reverse Energy	Reverse Power has been detected continuously for five minutes. The time is configurable.	One alarm message is sent, and the alarm stays enabled until reset of the voltage average window.
Power Outage	Power Outage Alarm. No power detected for longer than the configured Outage Time threshold.	The meter transmits alarm messages upon loss of power. Outage alarm messages are sent randomly over ten minutes. The initial outage alarm is sent from 0 to 32 seconds following confirmation of a permanent outage.

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Alarm	Meaning	Frequency
Power Restoration	Power Restoration Alarm. AC power is detected for a longer period than the configured Restore Time threshold (after a loss of power occurred).	The meter transmits alarm messages upon power restoration.
Tamper	Activated when meter's accelerometer detects motion in conjunction with a power outage.	Alarm sent upon occurrence.
Temperature Auto Open (TAO)	The temperature has exceeded the configurable Temperature Auto Open threshold. If enabled, the service switch (if available) will be opened to ensure safety.	Alarm sent upon occurrence.

Aclara I-210+c Electric Meter Alarms

The following table describes alarms, errors, warnings, and resolutions generated by an Aclara I-210+c electric meter.

TABLE 2: ACLARA I-210+C ALARMS GENERATED BY METER

Alarm	Meaning	Frequency
Clock Error	The meter's clock failed.	Weekly alarm message.
Configuration Error	The checksum of the configuration data table cannot be verified.	Weekly alarm message.
Cover Error	The meter's cover is open.	Weekly alarm message.

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Alarm	Meaning	Frequency
Demand Overload	The demand value is higher than the programmed value.	Weekly alarm message.
High Line Current Error	The meter has high current.	Weekly alarm message.
Low Battery	The meter's battery has low voltage. This will also appear if the battery is missing.	Weekly alarm message.
Low Loss Potential	The meter is missing phase.	Weekly alarm message.
Measurement Error	Measurement error detected	Weekly alarm message.
Meter Unprogrammed	The meter is not currently programmed.	Weekly alarm message.
NONVOL Error	The meter cannot access the EEPROM.	Weekly alarm message.
Power Failure	The meter has lost power.	Status message.
Processor Resets	The number of times the meter's processor has been reset.	Weekly alarm message.
RAM Failure	The RAM checksum test failed during bootup.	Weekly alarm message.
ROM Failure	The meter cannot access the EEPROM.	Weekly alarm message.
RX Calibration Errors/Receiver Calibration	The number of times the receiver could not calibrate.	Weekly alarm message.

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Alarm	Meaning	Frequency
Self-Check Error	The meter failed the self-check during a reboot.	Weekly alarm message.
Tamper Error	Meter tampering has been detected.	Weekly alarm message.
Transmitter (TX Lock Errors)/ Synthesizer Lock Failures	The number of times the transmitter could not lock to a frequency.	Weekly alarm message.

Aclara kV2c Electric Meter Alarms

The Aclara kV2c electric meter captures operational events in the meter's event log, including power-up and power-down, test mode activation and deactivation, and demand reset. The following table describes alarms, errors, warnings, and resolutions generated by an Aclara kV2c electric meter.

TABLE 3: ACLARA KV2C ALARMS GENERATED BY METER

Alarm	Meaning	Frequency
Bad password	The number of allowable password attempts has been exceeded.	Weekly alarm message.
Battery and Potential fail	Meter lost voltage and a battery is not connected or has failed. (This warning is expected on meters without a battery.)	Weekly alarm message.
Clock Error	The meter's clock stopped.	Weekly alarm message.
Demand Overload	The demand value is higher than the programmed value.	Weekly alarm message.
DSP Error	The digital signal processor cannot process voltage and current data.	Alarm sent upon occurrence.
EEPROM	The meter has detected an error in stored data and configurations.	Weekly alarm message.

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Flash Code Error	Error occurred in code stored in flash memory.	Alarm sent upon occurrence.
Flash Data Error	Error occurred in data stored in flash memory.	Alarm sent upon occurrence.
Leading kVARh	The meter has detected a leading KVAr condition.	Weekly alarm message.
Loss of Program	The meter configuration process did not complete as expected.	Weekly alarm message.
Low Battery Error	The meter's battery has low voltage. Also displayed if the battery is missing. (Battery not required in FlexNet system.)	Weekly alarm message.
Low Loss Potential (Sag)	The meter voltage has dropped below the programmable threshold.	Weekly alarm message.
Measurement Error	Measurement error detected	Weekly alarm message.
Meter Chip Error	The meter detected an error with the metering chip.	Alarm sent upon occurrence.
Meter Unprogrammed	The meter is not currently programmed.	Weekly alarm message.
NONVOL Error	The meter cannot access the EEPROM.	Weekly alarm message.
Power Outage	Power Outage Alarm. No power detected for longer than the configured Outage Time threshold.	The meter transmits alarm messages upon loss of power. Outage alarm messages are sent randomly over ten minutes. The initial outage alarm is sent from 0 to 32 seconds following confirmation of a permanent outage.

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Power Restoration	Power Restoration Alarm. AC power is detected for a longer period than the configured Restore Time threshold (after a loss of power occurred).	The meter transmits alarm messages upon power restoration.
RAM Failure	The RAM checksum test failed during bootup.	Alarm sent upon occurrence.
Received kWh	Energy has been detected coming from the load side of the meter (reverse energy)	Alarm sent upon occurrence.
ROM	The meter cannot access the ROM.	Alarm sent upon occurrence.
ROM Failure	The meter cannot access the EEPROM.	Alarm sent upon occurrence.
Time Changed	The time in the meter has changed.	Weekly alarm message.

Honeywell A3 ALPHA Electric Meter Alarms

The following table describes alarms, errors, warnings, and resolutions generated by a Honeywell A3 ALPHA meter with a SmartPoint communication module.

TABLE 4: HONEYWELL A3 ALPHA ALARMS GENERATED BY METER

Alarm	Meaning	Transmitted By
Clock Error	The meter's clock failed.	Weekly alarm message.
Config Error	The checksum of the configuration data table cannot be verified.	Weekly alarm message.
Demand Overload	The demand value is higher than the programmed value.	Weekly alarm message.

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Alarm	Meaning	Transmitted By
Low Battery	The meter's battery has low voltage. This will also appear if the battery is missing.	Weekly alarm message.
Low Loss Potential	The meter is missing phase.	Weekly alarm message.
Measurement Error	Measurement error detected	Weekly alarm message.
Meter Unprogrammed	The meter is not currently programmed.	Weekly alarm message.
NONVOL Error	The meter cannot access the EEPROM.	Weekly alarm message.
Processor Resets	The number of times the meter's processor has been reset.	Weekly alarm message.
RAM Failure	The RAM checksum test failed during bootup.	Weekly alarm message.
ROM Failure	The meter had a problem accessing its nonvolatile EEPROM.	Weekly alarm message.
Self-Check Error	The meter failed the self-check during a reboot.	Weekly alarm message.

Temperature Alarms

The Stratus IQ meter features temperature sensors on the two load side meter spades and at the top of the meter, providing superior temperature detection and measurement in the meter. With three temperature sensing locations, the Stratus IQ can gather more accurate temperature data.

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Aclara and Honeywell electric meters support High Temperature detection using the capability on their FlexNet transceiver.

Tamper Alarms

Sensus employs several methods of detecting physical tampering of electric meters, including the Sensus-patented electronic tamper detection that identifies when an energized Stratus IQ meter is removed from the meter socket. This alarming condition is very accurate in reporting instances of tamper. 3rd party electric meters support tamper detection too, like reverse power flow.

Alarms may be passed along to downstream systems, including a Meter Data Management System. Examples of tamper alarms delivered immediately when they occur include loss of power, meter removal, restoration of voltage, and reverse energy flow (if the meter is not configured for net metering).

A valuable feature of the FlexNet system is its ability to remotely find meters that have been stolen and moved to another location. Illegally relocated meters are found using a unique Sensus algorithm and GPS to triangulate the position of an energized meter within approximately 100 feet.

FlexNet Transceiver Alarm Support for Electric Meters

All FlexNet-supported electric meters provide alarms for voltage sags and swells using their on-board FlexNet transceiver. A voltage alarm is triggered when the voltage crosses a utility-configured threshold for sag or swell.

Electric meters continuously monitor the energy flowing through to the load. Voltage, current, and energy thresholds are configurable. When any of the thresholds are reached, the meter sends an alert.

Power Restore and Power Fail

The meter monitors line voltage and transmits power outage alarm when the meter loses power. Power restoral alarms are transmitted upon restoral of power to the meter.

When the power fails, the meter goes into a low power state for a holding period. This holding period, called Outage Time Threshold, is configurable in the meter program from eight to 120 seconds. The meter continues to monitor the power while in the low power state. If power returns to normal during the holding period, the meter goes back to normal operation and no power outage alarm is sent. If the power is still not restored at the end of the configured holding period, the meter sends a permanent outage alarm message to the head end.

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Similarly, when power to the meter is restored, the meter enters holding period. This holding period, called the power Restoral Time Threshold, is configurable from eight to 120 seconds. When the holding period is done, if power is still on, the meter sends three power restored alarms. This waiting period helps ensure that power is fully restored and is not a momentary power on state prior to sending the power restoral alarm.

Voltage Messages

The FlexNet communication module reports the following parameters in each standard voltage message:

- Current voltage
- Average voltage
- Minimum voltage
- Maximum voltage

The FlexNet transceiver checks the voltage every 90 seconds. The maximum, minimum, and average voltages reset every time the voltage average window resets. The voltage monitoring window (VAW) is configurable in the meter program for reset to 1 hour, 6 hour, 12 hour, or 24 hour increments. The voltage monitoring window always resets at midnight in addition to the configured time.

Low Voltage Threshold (Brownout Detection)

Each time the SmartPoint communication module samples the voltage registers from the meter, the minimum voltage is compared to the brownout voltage threshold. If the minimum voltage is lower than the threshold, the brownout bit is set. The brownout bit is cleared when the voltage average window resets.

The first sample time in which the FlexNet communication module reads a voltage that sets the brownout condition, an optionally configured alarm message is sent. In addition, the brownout bit is set in each meter read message until the voltage average window expires, even if the brownout line condition has already cleared.

High Voltage Threshold

The high voltage alarm is set when the voltage exceeds the selected value. Valid values are 96 to 606 VAC in 2 volt increments.

Over Voltage Detection

Each time the SmartPoint communication module samples the voltage registers from the meter, the maximum voltage is compared to the High Voltage Threshold. If the maximum voltage is greater than the threshold, the over voltage bit is set. The over voltage bit is cleared when the voltage average window resets.

The first sample time the FlexNet communication module detects an over voltage condition, an optionally configured alarm message is sent. In addition, the over voltage bit is set in each meter read message until the voltage average window expires, even if the over voltage condition has already cleared.

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Over Class-Rated Amperage Detection

Sensus Stratus IQ meters also support over class amperage detection. Each time the FlexNet communication module samples the voltage registers from the meter, the over class amps alarm flag is checked. If the bit is set, a corresponding over class amps bit is set in the on-air FlexNet message. The over class amps bit is cleared when the voltage average window resets.

The first sample time in which the FlexNet communication module detects an over class amps bit, an optionally configured alarm message is sent. In addition, the over class amps bit is set in each meter read message, until the voltage average window expires – even if the over class amps condition has already cleared.

Optionally, a Stratus IQ meter equipped with a service switch can be set to open its switch for safety is class amps is exceeded – for instance 200 amps for a form 2S meter.

Current and Line Frequency Measurement

The FlexNet communication module reports the instantaneous current and instantaneous line frequency in each enhanced alarm message.

Reverse Energy Detection

Reverse energy detection is a configurable feature. The meter will set a flag indicating reverse energy flow when reverse energy detection is enabled and the condition occurs.

- If the flag is set, a corresponding reverse energy bit will be set in the on-air FlexNet transmission. The reverse energy bit is cleared when the voltage average window resets.
- When the meter initially detects reverse flow an optionally configured alarm message is sent.

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ATTACHMENT F: SENSUS WATER SMARTPOINT COMPATIBILITY GUIDE

QUICK GUIDE

510M/520M SmartPoint® Module

Water Meter and Ancillaries Compatibility Quick Guide

Sensus

Register Type	Model	Meter Type
ICE & ICE Opto	All meters that accept ICE & ICE Opto 3-wire.	Positive Displacement, Multi-jet, Compound, Turbine, Propeller, Fire Service
OMNI™	T2, C2, F2, R2	Floating Ball Technology
accuMAG™	accuMAG	Mag
iPERL®	iPERL	Mag
Permalog	Permalog+	Acoustic Technology
Sensus® Electronic Register+™ and E-Register	accuSTREAM, SR II	Positive Displacement
ally	ally	ally
Hydroverse	Hydroverse	Mag

Badger

Register Type	Model	Meter Type
ADE	All meters that accept ADE 3-wire and TouchCoupler support, Sensus Approved TR/PL lead, up to 8 wheels.	Disc, Turbine, Compound, Fire Service
HR-E LCD	All meters that accept HR-E LCD 3-wire, up to 8 wheels. Must be at least SmartPoint firmware version R1.2.1f or higher.	Disc, Turbo Series, Compound Series, Combo Series, Fire Service
E-SERIES 8 digits	All models with firmware version 1.36. 3-wire**	Ultrasonic

Neptune

Register Type	Model	Meter Type
Proread 4 wheel	All meters that accept Proread registers. 3-wire support	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 4 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
Proread 6 wheel	All meters that accept Proread registers. 3-wire support	Positive Displacement, Turbine, Compound, Fire Service
E-coder 6 wheel	All meters that accept E-coder registers. 3-wire support (Proread protocol only)	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 6 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
E-coder 8 wheel	All meters that accept E-coder registers. 3-wire support*	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 8 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
ProCoder 8 wheel	All meters with firmware version 63.16. Manufactured after 7/2018. TouchCoupler and 3-wire**	Positive Displacement, Turbine, Compound, Fire Service

*SmartPoint firmware version 1.2 and above only
**SmartPoint firmware version 1.7 and above only

sensus
a xylem brand

WQG-10021-07

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Elster/Amco

Register Type	Model	Meter Type
Scancoder	All meters that accept Scancoder 3-wire support (Sensus protocol only).	Positive Displacement, Turbine, Multi-jet, Bulk combo, Fire service
InVision	All meters that accept InVision 3-wire support (Sensus protocol only).	Positive Displacement, Turbine, Multi-jet, Bulk combo, Fire service

Master Meter

Register Type	Model	Meter Type
AccuLinx V1.19	All meters that accept AccuLinx 3-wire and TouchCoupler, Sensus approved TR/PL lead.	Positive Displacement
Sonata 8 digits	3-wire and TouchCoupler, firmware version 5.01 or greater.**	Ultrasonic
Octave 8 digits	3-wire only.**	Ultrasonic

McCrometer

Register Type	Model	Meter Type
McCrometer flowcom FC100-00M 8 digits	3-wire reading. Firmware 2.4. Manufactured after 4/2015.	Propeller
ML255 battery powered register 8 digits	3-wire reading only. Firmware 5.09 or greater.**	Propeller
ML Series converter, AC powered 8 digits	3-wire reading only. Firmware 3.03 or greater.**	Propeller

Kamstrup

Register Type	Model	Meter Type
flowIQ 2100 4, 6 and 8 wheel	3-wire reading. Version C1.	Ultrasonic
flowIQ 2100 4, 6, and 8 wheel	3-wire and TouchCoupler version H1.**	Ultrasonic

Diehl

Register Type	Model	Meter Type
Hydrus 8 digits	3-wire support only.** Manufactured after 4/2018.	Ultrasonic

Zenner

Register Type	Model	Meter Type
PMN Nitro 01 4 wheel, 6 wheel	3-wire support only. Manufactured after 8/2015.	Multi-jet

Hersey/Mueller Systems

Register Type	Model	Meter Type
Translator	All meters that accept Translator 3-wire and TouchCoupler support, Sensus approved TR/PL lead.	Positive Displacement, Mag

*SmartPoint firmware version 1.2 and above only
**SmartPoint firmware version 1.7 and above only

SENSUS
a xylem brand

637 Davis Drive
Morrisville, NC 27560
1-800-638-3748
sensus.com

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ATTACHMENT G: FLEXNET DISTRIBUTION AUTOMATION SOLUTION

FlexNet Distribution Automation Solution

Sensus has been providing Distribution Automation (DA) solutions to utilities for over ten years. Our dedicated DA support team works in partnership with each utility to set up the FlexNet DA solution easily and quickly. Our DA customers use FlexNet for both their DA needs and their AMI needs, and these solutions are improving the utility system operations and performance. We have invested millions of R&D dollars into creating a highly available system that provides you with superior performance day in and day out – just like you do for your customers.

FlexNet stands alone in its ability to support mission-critical AMI meter billing data, DA solutions, and smart grid applications on a single communication network. The FlexNet system can be configured to read AMI meters on separate RF communications channels to ensure that each application is fully supported and does not impact the performance of other channels. Our point-to-multipoint AMI system design enables this by allowing each FlexNet-enabled endpoint in the field to communicate directly with the FlexNet Base Stations in the network.

Because of the expansion of intelligent devices in grid infrastructure and the need for improved real-time monitoring and remote control capabilities, utilities are being asked to look at their distribution system for solutions such as voltage regulators, automated feeder switches, reclosers, and capacitor banks. Utilities are evaluating strategies to address these challenges through the design and deployment of DA systems. We have been offering DA solutions to our utility customers for several years and have long-standing expertise in developing and deploying end-to-end DA systems with established, field-proven solutions that address everything from the back office to the distribution network edge. Our DA solutions comprise three main elements:

1. Intelligent communications/automation devices
2. A reliable low-latency FlexNet network communications backbone
3. SCADA-DA device management tools

Our SCADA-DA device management tools include AutomationControl and the SCADA-Xchange software suite for field device control, network management, and easy third-party SCADA integration. Collectively, these elements provide a powerful solution for real-time monitoring and control of utility distribution assets, users, and communications.

We designed our DA solution with interoperability in mind. It interfaces with any DNP3- or Modbus-enabled Intelligent Electronic Device (IED) using the Sensus Remote Telemetry Module (RTM II). In addition to building our DA system on open standards and protocols, our DA SCADA-Xchange software provides a powerful, open standards-based interface that supports all popular SCADA system suppliers via a DNP3 interface. Our DA technology integrates seamlessly with existing distribution systems, ensuring reliable and real-time, two-way communication. It works with legacy systems, industry- standard network protocols, and both old and new technologies to facilitate true end-to-end system interoperability. We have integrated our DA solution with hundreds of equipment types over the years.

Our intelligent DA field devices, enabled with FlexNet SmartPoint modules, communicate with a complete line of intelligent communication devices. Utilizing the capabilities of AutomationControl, every field device

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provides engineers, planners, and troubleshooters with easy access to a large volume of information. Our DA solutions help utilities get the best value out of their distribution assets by enhancing system reliability for reduced outage times, optimizing grid efficiency, and reducing costs. Sensus DA delivers cost-effective wireless communication and control solutions for a wide range of DA-enhancing power delivery reliability and efficiency applications. Examples of these applications include the following:

- Recloser controller communications to enable better voltage optimization
- Capacitor bank controllers to improve distribution grid efficiency
- Automated line switches to improve distribution reliability
- Industrial and commercial load management to extend the utility's SCADA system to these critical loads
- Substation automation remote monitoring and control support for substations not already tied in to the SCADA system
- Faulted circuit indicators (FCIs) and current sensor monitoring for improved outage and restoration management
- Line voltage monitoring to improve reliability monitoring and outage reporting
- Power reliability monitoring at key points in the distribution network to detect problems before they grow bigger

Our field-proven DA solutions provide electric utilities with secure, robust, and cutting-edge solutions for remote monitoring and control of distribution systems and assets.

Sensus DA Differentiators

Our SCADA automation solution provides unique market differentiators by integrating three key solutions:

1. Dedicated & Secure Wireless Infrastructure: The FlexNet-enabled, smart-utility dedicated, point-to-multipoint wireless communication network incorporates key functional elements:

- It supports multiple applications.
- It provides prioritized low-latency messaging for mission-critical smart utility applications.
- It is simple and cost effective to add endpoints or applications.
- Data transmission is secured with AES-256 encryption and authentication.

2. System Interoperability: We provide an expanding suite of utility system applications and solutions that enables end-to-end system interoperability.

3. Smart Automation Endpoints: We offer a powerful portfolio of FlexNet-enabled smart utility SCADA endpoints to enhance easy third-party smart endpoint integration in addition to smart field device monitoring, alarming, and reporting.

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What Do These Differentiators Actually Offer?

As previously outlined, we provide differentiating elements that are enabled by each of the three key smart utility solutions areas:

FlexNet Communications Infrastructure

The FlexNet-enabled wireless point-to-multipoint technology is ideal for DA applications, which require low latency and high reliability. Key features include the following:

- Operates exclusively on licensed, clear-channel spectrum to reduce interference from other wireless devices.
- Point-to-multipoint technology allows utilities to segment available spectrum into separate channels so that mission-critical automation applications and devices have a dedicated pathway. For example, DA communications are put on their own RF channel with FlexNet, enabling prioritization for SCADA automation data streams.
- Routing and command and control intelligence is centralized to leverage available spectrum bandwidth more efficiently when harvesting critical data from DA devices. This network architecture enhances security because there are fewer access points from which to hack into the network.
- Supports 4G cellular communications on AT&T's 4G cellular network and Verizon's 4G cellular network.

AutomationControl/SCADA-Xchange/SCADA Interoperability

Our AutomationControl software platform, combined with the integrated SCADA-Xchange data interface, provides a uniquely powerful platform for enabling three elements that are integral to enabling smart utility applications:

1. Third-party device interoperability: The AutomationControl software platform provides a uniquely powerful interface for integrating with both legacy and new third-party intelligent electronics devices (IEDs). When paired with our RTM II smart communication gateway, AutomationControl acts as a toolkit for utilities to easily integrate third-party SCADA controls, providing effective and secure "end-to-end" device application connectivity.

2. Third-party data interoperability: In addition to providing a powerful set of device integration tools, the SCADA-Xchange software tool provides a uniquely flexible means to easily map both third-party SCADA control data and Sensus smart utility SCADA endpoints into third-party SCADA systems. SCADA-Xchange software is a powerful means of integrating our control and data acquisition functionality into distribution SCADA systems. It allows a third-party SCADA system to poll any endpoint in the field via our DA solution as if it were connected directly to the SCADA system.

3. Actionable Intelligence: As an added benefit, the AutomationControl software platform incorporates the unique ability to leverage device data and events into actionable intelligence. This ability to act on device data differentiates AutomationControl from competitive offerings that passively move device data without

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the ability to act or intelligently discern critical system conditions.

Smart Utility SCADA Automation Endpoints

To complete our automation solutions offering, we also provide a powerful portfolio of smart utility SCADA endpoints to further enhance and enable smart utility applications to more effectively meet the objectives of automating and addressing critical business needs. Our smart utility endpoints include:

Intelligent Communication Field Protocol Gateway – RTM II Remote Telemetry Module: This is a powerful plug-and-play solution that enables end-to-end field interoperability with any compatible third-party intelligent electronic control (IED) that supports either the DNP3 or Modbus automation protocols.

Flexible Input/Output SCADA Control MicroRTU – TC866: This is a flexible hardware platform for enabling and addressing a wide range of SCADA automation needs across DA applications. This DA endpoint supports digital state input and outputs and analog inputs and is an ideal solution for water DA applications because the equipment in the field often supports only input and output signals.

DA Capacitor Bank Control MicroRTU – TC032: This endpoint is ideally suited for DA applications such as Volt-VAR optimization or central control applications for switched capacitor banks.

DA NaviComm Faulted Circuit Indicator Monitor: This is a solution that enables as many as 12 Horstmann Smart Navigators to be integrated with our NaviComm endpoint to monitor and control faulted circuit indicators (FCIs), which provide fault current magnitude and load metrics. Its unique load-monitoring and reporting capabilities provide utilities with access to critical operational and planning information in real-time along with traditional fault indication.

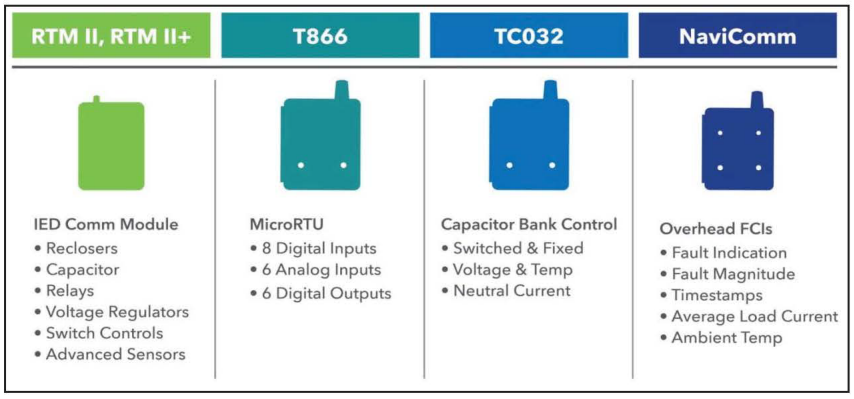


FIGURE 14: DA ENDPOINTS

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The RTM II+ endpoint uses RS-232, RS-485, or Ethernet physical connections and DNP3 or Modbus protocols to communicate with several diverse distribution devices. More equipment types are added to this list as our utility customers ask us to work on newly selected equipment.

TABLE 4: LIST OF IEDS

Manufacturer	IED	Application	Protocol
Cooper	Form 5	Recloser Control	DNP
Cooper	Form 5 - LS	Recloser Control	DNP
Cooper	Form 5 - TS	Recloser Control	DNP
Cooper	Form 6	Recloser Control	DNP
Cooper	Form 6 - LS	Recloser Control	DNP
Cooper	Form 6 - TS	Recloser Control	DNP
Cooper	SMP4 Gateway	Data Concentrator	DNP
DirectLogic	DL05	PLC	Modbus
Eaton Cutler Hammer	MPCV	Network Protector	DNP
Eaton Cutler Hammer	VaultGard	Network Protector	DNP
Electro Industries	DMSS300 Series	Meter	DNP
Electro Industries	Nexus 1250	Meter	Modbus
Electro Industries	Nexus 1250	Meter	DNP
ETI	MNPR	Network Protector	DNP
GE	DART	Power Quality Monitor	DNP
GE	Kelman TRANSFIX	Transformer Monitor	DNP
GE Harris	D25	Substation Control	DNP
GridSense	DataPAC	Faulted Circuit Indicator	DNP
GridSense	Transformer IQ	Transformer Monitor	DNP
HD Electric	VARCOM 1600	Capacitor Bank Control	DNP
ICMI	UVR-1	Voltage Regulator Control	DNP
Itron	Q1000	Meter	DNP
Landys & Gyr	MAXSys Elite	Meter	DNP
Lindsey	SmartPin	Faulted Circuit Indicator	DNP
Maysteel	100 Series	Capacitor Bank Control	DNP
Maysteel	ProCap	Capacitor Bank Control	DNP
Morgan Schaffer	Calisto 2	Environmental Monitor	DNP
MPE	ISD	Pump Control	Modbus
Multitrode	MultiSmart	Pump Control	Modbus
Novexia	Auguste	Switch Control	DNP
NOJA	RC01	Recloser Control	DNP
NOJA	RC10	Recloser Control	DNP
Nulec	ACO	Recloser Control	DNP
Nulec	ACR	Recloser Control	DNP
OptiSense	OSP	Power Quality Monitor	DNP

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PowerLogic	ION8600	Meter	DNP
PV Powered	PVP100kW	Inverter	Modbus
PV Powered	PVP30kW	Inverter	Modbus
PV Powered	PVP75kW	Inverter	Modbus
QEI	6ACP5	Switch Control	DNP
QEI	eCAP II	Capacitor Bank Control	DNP
Red Lion	Data Station Plus	PLC	Modbus
Reliatronics	RTU2000	Switch Control	DNP
S&C	4801	Switch Control	DNP
S&C	5801	Switch Control	DNP
S&C	5802	Switch Control	DNP
S&C	5803	Switch Control	DNP
S&C	6801	Switch Control	DNP
S&C	5801 IntelliTeam II	Switch Control	DNP
S&C	5802 IntelliTeam II	Switch Control	DNP
S&C	EnergyLine 1000	Capacitor Bank Control	DNP
S&C	IntelliCap Plus	Capacitor Bank Control	DNP
S&C	IntelliRupter PulseCloser	Switch Control	DNP
S&C	M-series	Switch Control	DNP
S&C	Vista	Switch Control	DNP
Sage	1450	PLC	DNP
Sage	2100	PLC	DNP
SATEC	PM130	Meter	DNP
SATEC	PM172	Meter	DNP
Schneider Electric	Bardin G200	Faulted Circuit Indicator	DNP
Schneider Electric	MUCM	PLC	DNP
Schneider Electric	PowerLogic ION7300	Meter	DNP
SEL	SEL-2032	Data Concentrator	DNP
SEL	SEL-2414	Transformer Monitor	DNP
SEL	SEL-2431	Voltage Regulator Control	DNP
SEL	SEL-321	Feeder Protection Relay	DNP
SEL	SEL-351-6	Feeder Protection Relay	DNP
SEL	SEL-351J	Recloser Control	DNP
SEL	SEL-351P	Recloser Control	DNP
SEL	SEL-351R	Recloser Control	DNP
SEL	SEL-351R-1	Recloser Control	DNP
SEL	SEL-351R-2	Recloser Control	DNP
SEL	SEL-351RS	Recloser Control	DNP
SEL	SEL-351S	Recloser Control	DNP
SEL	SEL-3530 RTAC	Substation Control	DNP
SEL	SEL-451R	Recloser Control	DNP

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SEL	SEL-451S	Recloser Control	DNP
SEL	SEL-487V	Capacitor Bank Control	DNP
SEL	SEL-651R	Recloser Control	DNP
SEL	SEL-700GW	Wind Generator Relay	DNP
SEL	SEL-734B	Capacitor Bank Control	DNP
SEL	SEL-751A	Feeder Protection Relay	DNP
Siemens	HydroRanger 200	Pump Control	Modbus
Siemens	Intra-Link LC150	Pump Control	Modbus
Siemens	MJRL	Recloser Control	DNP
Siemens	MJXL	Voltage Regulator Control	DNP

Sensus Water SCADA Solution Overview

The Sensus solution supports many different solutions on one AMI network. One of the advanced solutions that the FlexNet system offers is our SCADA / Distribution Automation solution. This capability can be used to extend the utility's SCADA system's capabilities of equipment in the field using the FlexNet AMI system.

Two main classes of water applications are supported. The RTM II products integrate to your smart IEDs in the field supporting real time communication to these powered equipment types. The T866 endpoint supports multiple inputs and outputs for integrating to IEDs with these communication options.

Key advantages of the Sensus SCADA solution are:

- Provide both real time control and monitoring capabilities for pumps, lift stations, valves, gates, grinder pumps, and pressure and flow monitors
- Customizable alarming conditions and reporting
- Real Time, Low latency communication
- "No message left behind" philosophy
- Easy interfacing with utility SCADA system
- Full duplex, two-way communication
- Automation of Commands on logical field states
- Group Command support
  - 13 month data history
  - Over the Air Configuration support

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The following screenshots depict the types of data that are available with the Water SCADA solution.

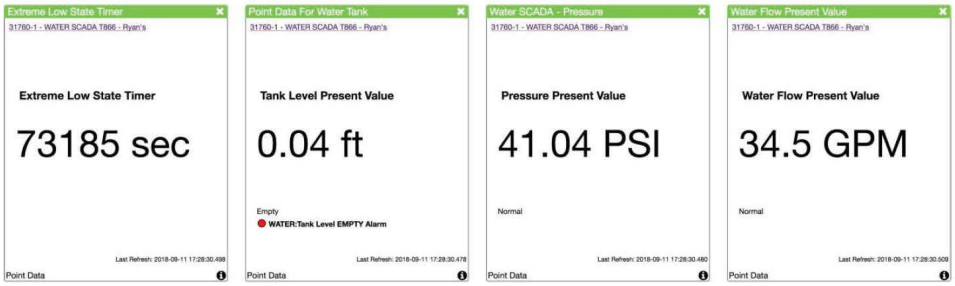


Figure 1. SCADA Dashboard Key Metrics

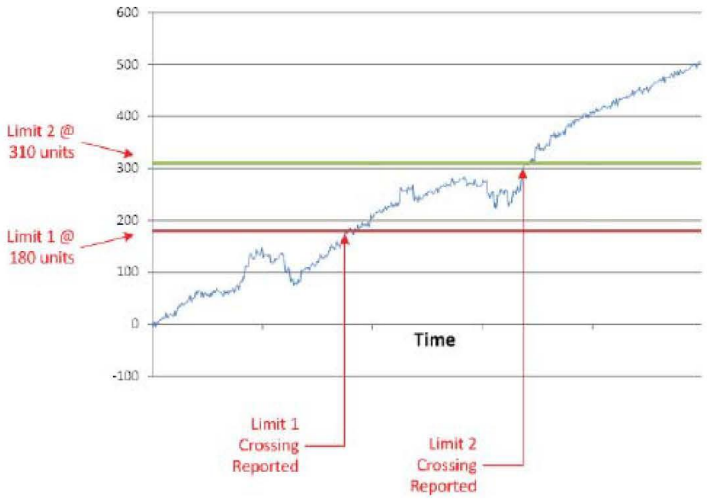


Figure 2. Rules Based Reporting

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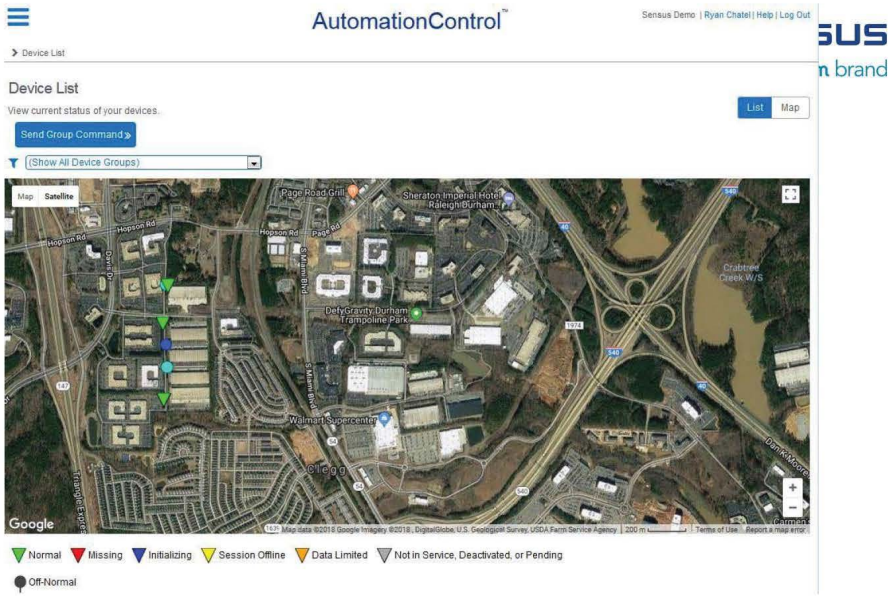


Figure 3. Smart Field Information



Figure 4. Advanced Analysis Graphing

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Interoperable Home Area Network (HAN) Functionality

Sensus offers utilities a range of interoperable HAN functionality to integrate with third-party in- home devices. Home Area Network devices and support information is included in the previous answer, but additional information is included below. Sensus focuses on industry standards and interoperability for HAN solutions to offer utilities the greatest amount of flexibility when implementing HAN. HAN solutions are supported through electric meters with an integrated Zigbee interface. Supported HAN devices include:

- Programmable Communicating Thermostats (PCT)
- In-Home Displays (IHD)

In addition, the FlexNet system supports load control modules (LCMs), enabling the utility to control up to three loads directly from the FlexNet communication network. Sensus offers LCMs for residential, 480-volt irrigation, and Comverge Door Swap applications. The following figure illustrates the system design for a Demand Response Management System (DRMS) using both HAN and LCM devices.

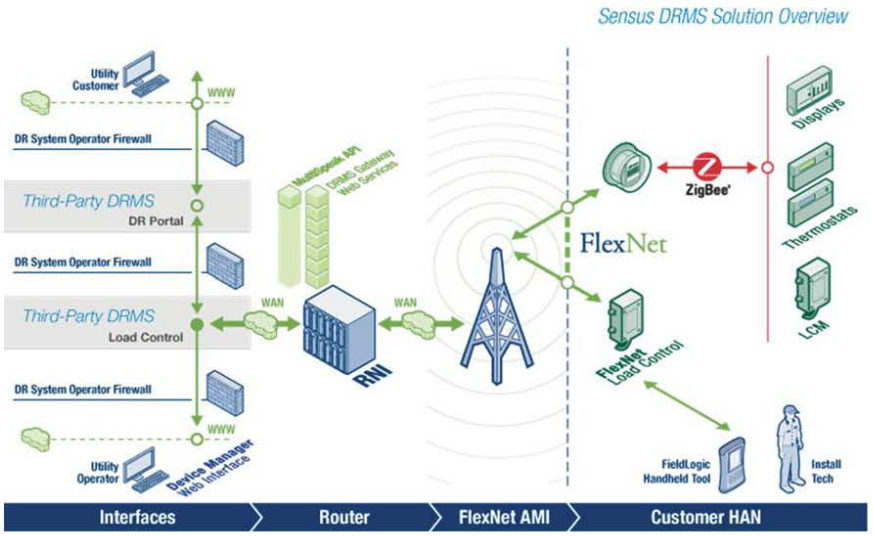


Figure 1. FLEXNET DEMAND RESPONSE MANAGEMENT AND HAN OVERVIEW

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HAN Devices

Certified HAN devices supported by the FlexNet system are listed in the following table.

Table 1. CERTIFIED HAN DEVICES

Device Name	Features	Manufacturer	Model Number / Part Number	Device Type
HAI PCT (Programmable Communicating Thermostats) Zigbee Smart Energy	**Omnistats2 Thermostats:** • Communicate with the utility company for load-shedding applications • View real-time energy bills (usage and price), graphical displays of energy cost per week, and real-time energy cost • LCD displays color changes to indicate tier and real-time kWh price • Displays HAN text messages	HAI	RC-2000 RC-1500 RC-1000	Thermostat
HAI IHD Zigbee Smart Energy	• Tracks energy usage; view information in chart or graph form based upon kWh used during time frames • LCM view allows for monitoring and control of high-load devices • View thermostats and adjust set points	HAI	81A00-1	In Home Display
HAI LCM Zigbee Smart Energy	• Controls power consumption for high-wattage loads (such as pool pumps and hot water heaters)	HAI	73A00-3 (30A) 73A00-4 (5A)	Load Control Module
Energate PCT Zigbee Smart Energy	**Foundation home energy gateway and smart thermostat:** • Set-and-forget, energy management options • Supports load control programs • Offers dynamic pricing programs (TOU & CPP) • OTA upgradable firmware	Energate	FZ100	Thermostat
Energate IHD Zigbee Smart Energy	**ZEV110 and ZEV110 In-Home Displays (PowerTab):** • Presents real-time energy use, price and billing data, and utility text messages, as communicated from a Zigbee-enabled smart meter	Energate	PTMK2UART	In Home Display

Energate LCM Zigbee Smart Energy	**Energate LC301Z Load Control Switch:** • Allows consumers and utilities to manage energy use and reduce peak demand • Disables major loads (such as AC compressor, pool pumps, and hot water heaters) • Communicates with the Zigbee- enabled smart meters • OTA upgradable firmware	Energate	LC301Z	Load Control Module
EnTek family of FlexNet LCMs (TC-FlexNet 2 Watt Remote Appliance Controller)	• Multiple relays (one 30-amp and up to two 5-amp relays) • 30-amp relay used for direct control of water heaters or other larger loads • 5-amp relays used for control circuit switching • Operates on standard Sensus FlexNet system (no Zigbee) **LCM options include:** • A standard 240 V residential A full-size 480 V model • A full-size Comverge door swap • A full-size 240 V Comverge replacement	EnTek	various	Load Control Module

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ATTACHMENT I: USER INTERFACE SCREENSHOTS

User Interfaces

Due to the vast capabilities of the system and therefore the number of the potential screenshots, Sensus' response to this section is to focus on the area's Clewiston requested screenshots. If there are additional user interfaces in question, Sensus can provide more screenshots; however also consider a live demonstration of our system. Sensus maintains a live system that we can demonstrate any aspect of the system. Due to COVID-19, we are restricting onsite visits; however the lab is configured with video cameras to present the system and enable the customer to see the change to the endpoint in real time.

Disconnect/Reconnect Management

The system management application (SMA) manages large meter requests for the utility and its users. SMA tracks current state and queued actions in real time. SMA currently works with water meters and gas and electric meters are on the roadmap.

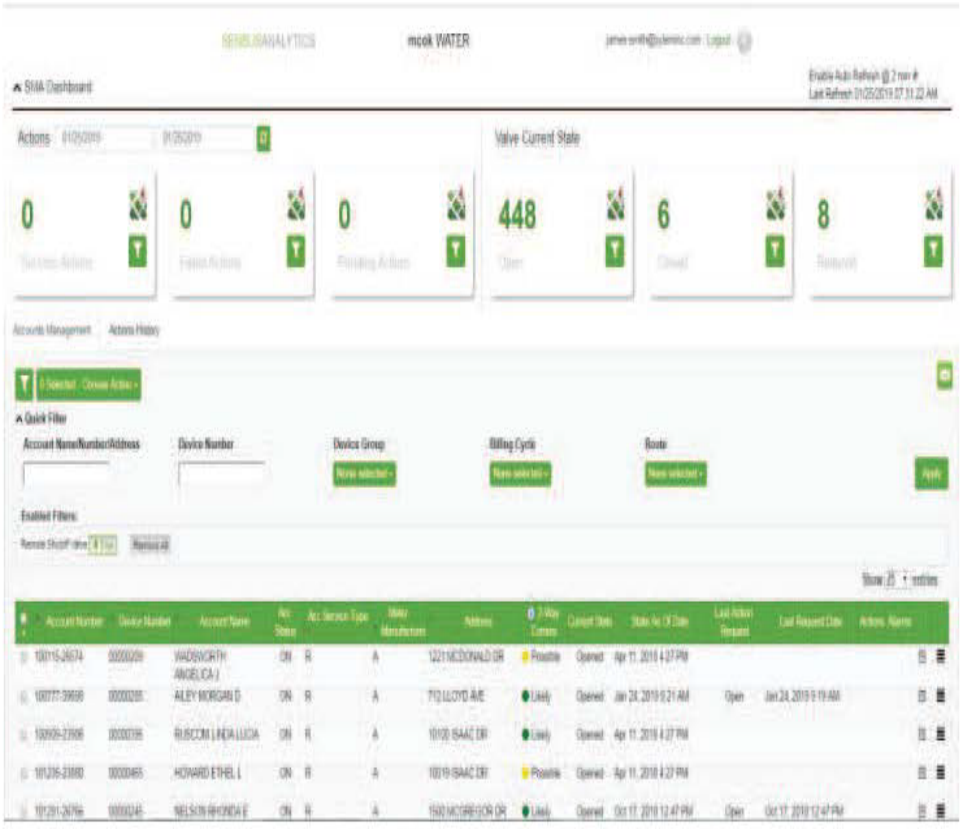


Figure 1: SMA (Example of valve management)

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Outage Tracking in Network Command Suite

The outage management application provides an instant view of the grid; data can be presented on a map or in tabular form. If raw outage data is needed in another application, all outage information can be exported out of the system.

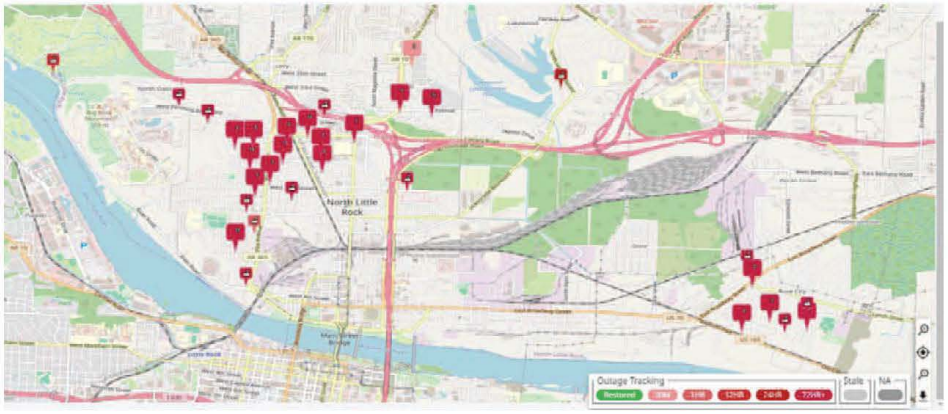


Figure 2: (Example of outages on map)

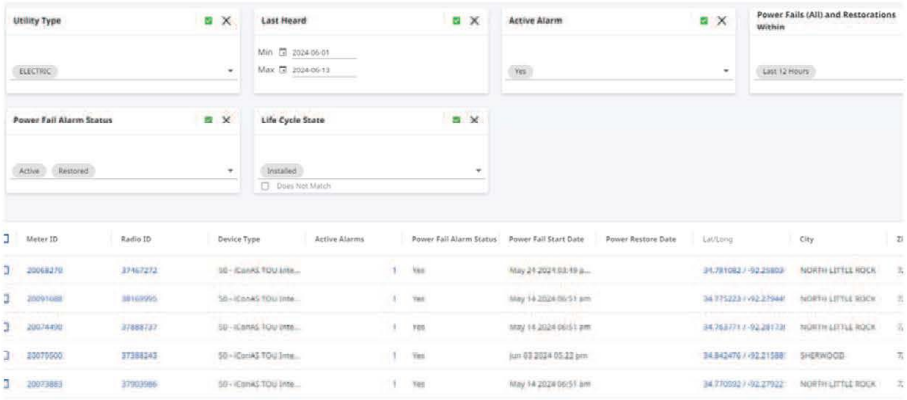


Figure 3: (Example of outages in table) (with filters)

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Network Equipment Issues

The Base Stations page displays a list of base stations in your FlexNet communication network. The page can be toggled between a table or graph view of base station statistics and status. It monitors the condition of base stations on the network, and enables you to monitor base station performance. The Base Stations page displays all base stations in a table and graph view. You can customize the table view using available filters and columns. You can also customize the Base Stations Dashboard.

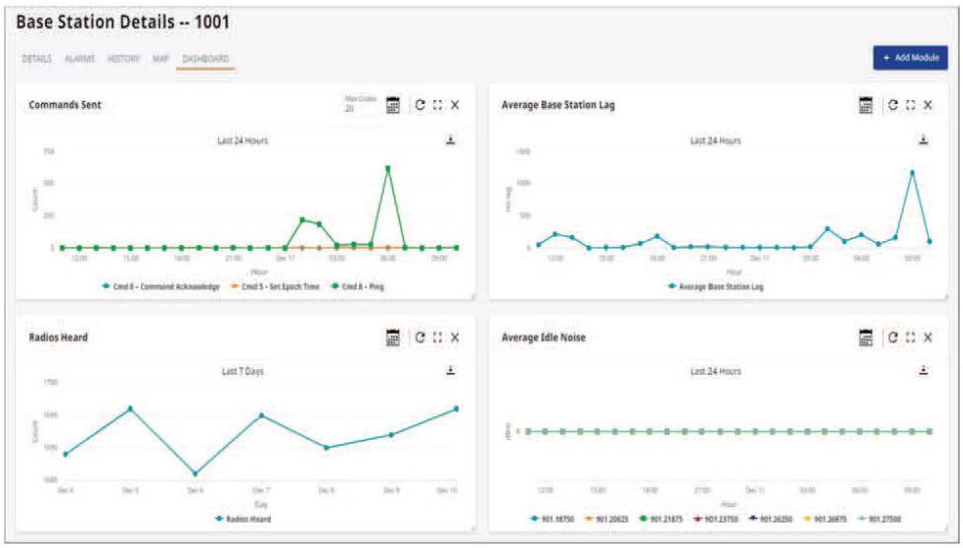


FIGURE 4: BASE STATION DETAILS

Leak Summary

The alarm insight application reports on alarming occurring within meters. The scenario provided is around leak notification at the meter. The user started with the alarm dashboard, then drilled into leak alarms in real time, followed by trending data, and concluding with meter details.

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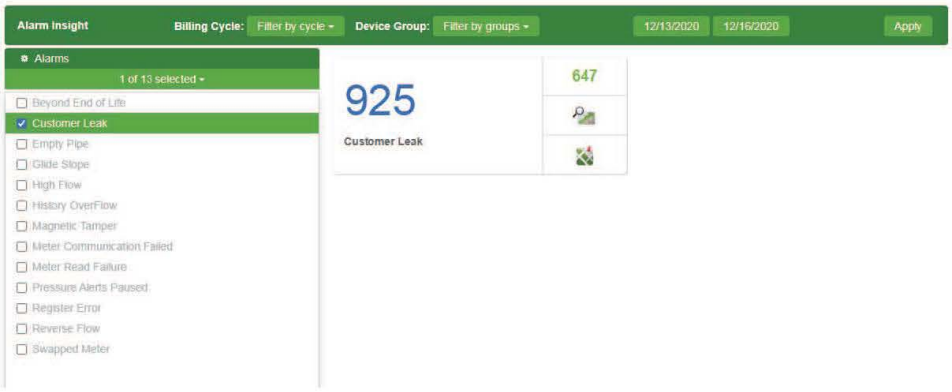


Figure 5: Alarm Insight (Example Dashboard)

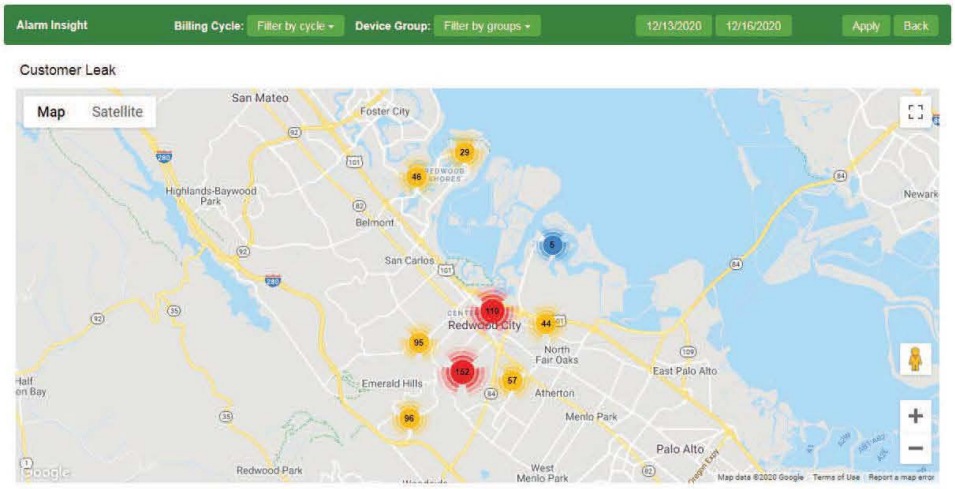


Figure 6: Alarm Insight (Example leak mapping)

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Figure 7: Alarm Insight (Example leak trending)

Alarm Insight | Billing Cycle: Filter by cycle | Device Group: Filter by groups | 12/13/2020 | 12/16/2020 | Apply | Back

Customer Leak

Copy | Excel | CSV | PDF | Print | Search: | Show 100 entries

Meter Id	Radio Id	Account	Customer	Address	Service Type	Zone	Cycle	Occurrences
18204140	13437036	1002755-00	Alan/Marie Drago	383-385 Roble Ave	MFR Water	UNAVAILABLE	E11	1
49036259	11512890	1008283-00	Westpoint Harbor	101 Westpoint Harbor Dr	Commercial	UNAVAILABLE	M26	16
56915201	10066350	1002324-00	Alverno Hills	10 Alverno Ct	Irrigation Res	UNAVAILABLE	M28	25
56915407	10046630	1000961-00	R.C.School Dist-Roosevelt	2400-BLK Mcgarvey Ave	Irrigation Com	UNAVAILABLE	M28	18
59393859	86107748	3002028-00	Westport Office Park	3600 Bridge Pkwy B	RW Irrigation Com	UNAVAILABLE	M28	1
60712154	10677336	1002371-00	Sequoia Health Svc., Site # 240	2951 Whipple Ave	Irrigation Com	UNAVAILABLE	M28	18
60712168	10036184	1000061-00	Kaiser Permanente, Site #cn3701	1000-BLK Veterans Blvd	Irrigation Com	UNAVAILABLE	M28	23
60712422	10681106	1007685-00	Stanford Hospital & Clinics	420 Broadway	Irrigation Com	UNAVAILABLE	M28	16
60712423	10256762	1011381-00	Bristol Meyers Squibb	740 Bay Rd	Commercial	UNAVAILABLE	M28	11
60712448	10119032	3000736-00	Ventana Del Mar HOA	700 Baltic Cir	Irrigation Res	UNAVAILABLE	M28	14
61103496	10044876	1003972-00	RWC-65175 - Parking Street System	750 Marshall St	Irrigation Com	UNAVAILABLE	M28	12
61103507	10671644	1009145-00	Jack-In-The-Box #525	1205 Broadway	Irrigation Com	UNAVAILABLE	M28	1
61538258	83831642	3002666-00	Hudson 555 Twin Dolphin Plaza, LLC	555 Twin Dolphin Dr	RW Irrigation Com	UNAVAILABLE	M28	1
62240298	13582532	1001219-00	Farm Hill Vista HOA	4004 Farm Hill Blvd	MFR Water	UNAVAILABLE	O26	1
62749011	10043552	3000315-00	Sunrise HOA	20-BLK Cadiz Cir	Irrigation Res	UNAVAILABLE	M28	16
62962777	17770442	1012358-00	Hsiangyi Chiang	493 Cypress St	SFR Water	UNAVAILABLE	E11	1
62977502	13593574	3002350-02	Erp Operating Limited Partnership	500-BLK Shell Pkwy	RW Irrigation Res	UNAVAILABLE	M28	1
62977515	10693540	3001988-00	The Bay Club Company	200 Redwood Shores Pkwy	RW Irrigation Com	UNAVAILABLE	M28	1
63110851	17576794	1010903-00	Julie Xie	275 Poplar Ave	MFR Water	UNAVAILABLE	E06	1
63110872	17578050	4001063-00	Randolph Charlton	928 Far Creek Way	SFR Water	UNAVAILABLE	E24	1
63110878	17707994	1004176-00	Gordon Manor	1616 Gordon St	Commercial	UNAVAILABLE	M28	1
64978239	11469378	1008891-00	Kainos Home & Training Center	1122 Valota Rd	SFR Water	UNAVAILABLE	O21	1
65611678	86101616	2000122-00	Parca	124 Alameda de las Pulgas	SFR Water	UNAVAILABLE	E19	1
65612955	10749556	1002665-01	Karen Regnier	1914 Redwood Ave	SFR Water	UNAVAILABLE	E06	1
66950234	13326038	4001088-00	Lawrence Onyejekwe	2450 Park Rd	SFR Water	UNAVAILABLE	E22	1
69674634	13735894	1011492-00	Steven Cheng	916 Wilmington Way	SFR Water	UNAVAILABLE	E22	1

Figure 8: Alarm Insight (Example leak drill down)

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Alarms/Events

The alert manager enables users to set up automatic notification events. An event will trigger either a text or email message; the notifications are configurable. The alert manager is an extension to the alarm insight application; by configuring alerts, the user does not have to be monitoring alarm reports but rather is notification when exceptions occur.

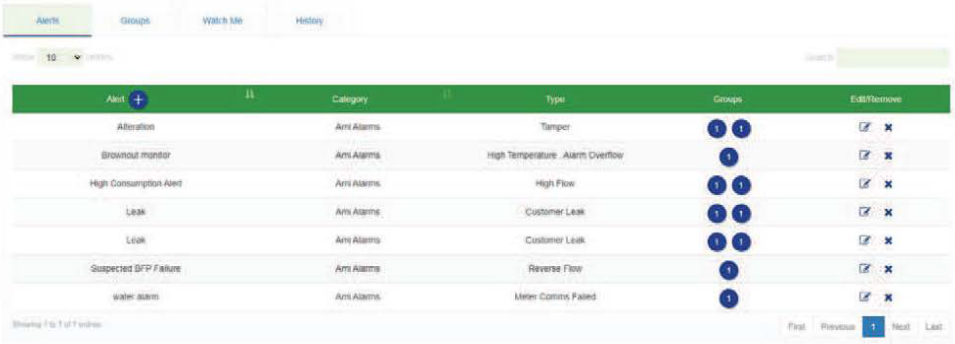


Figure 9: Alert Manager (Example alerts)

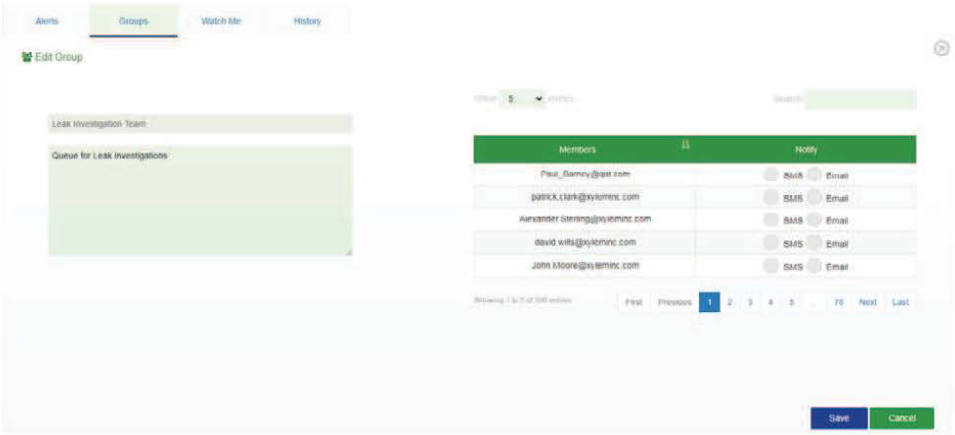


Figure 10: Alert Manager (Example notification group)

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Dashboard Level of Critical System Information

The Network Metrics application helps you fully utilize the capabilities of your Sensus FlexNet communication network. Network Metrics is a network management application that reports the health of your FlexNet network using charts, tables, graphs, and statistics. Network Metrics offers a fully customizable dashboard which displays many different metrics to help you monitor the health of your Sensus FlexNet communication network.

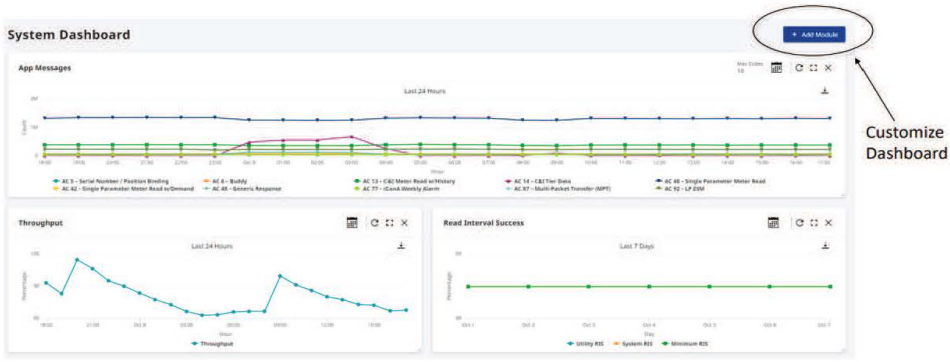


FIGURE 11: NETWORK METRICS SYSTEM DASHBOARD

Customer Portal Screen Showing Usage History

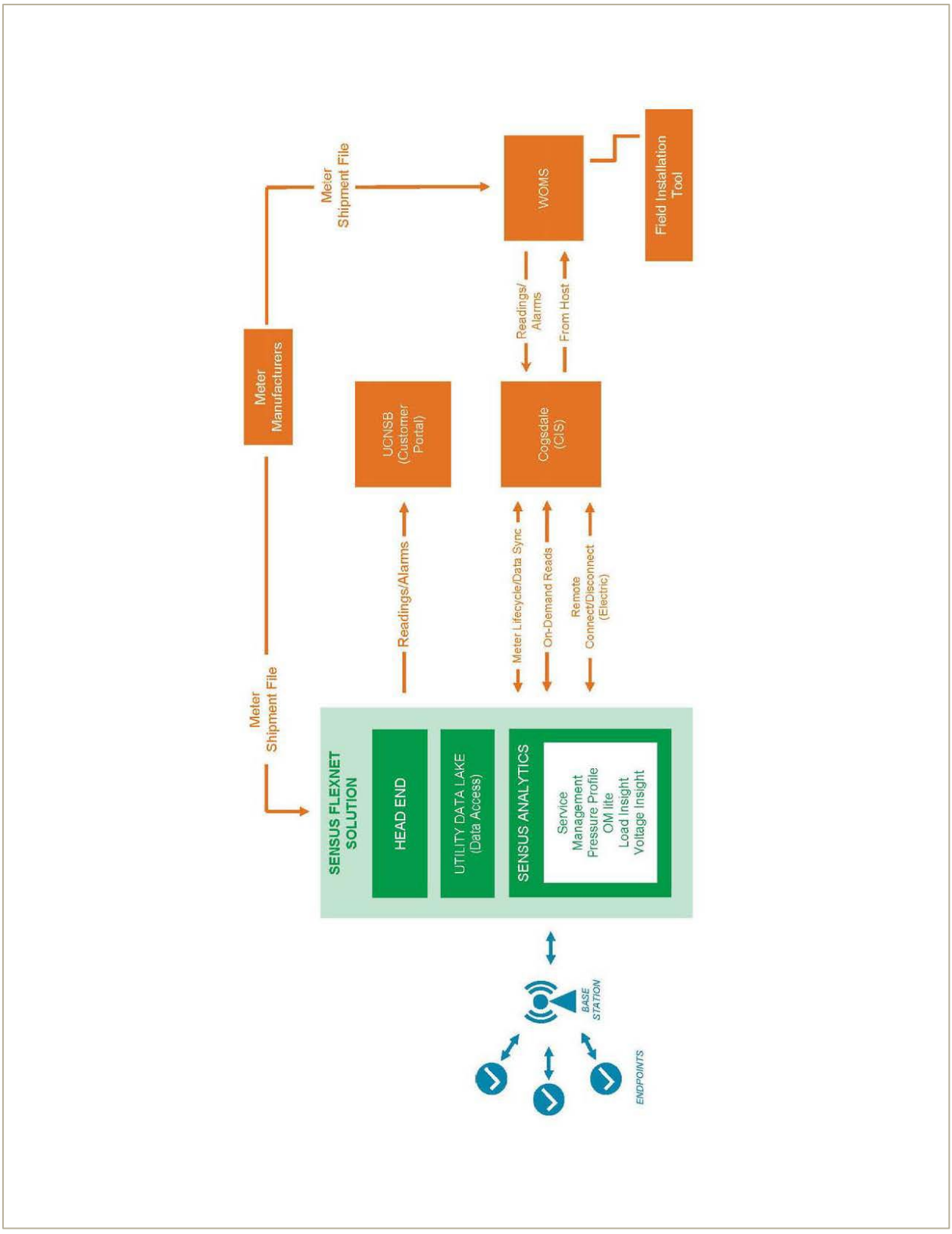
The customer portal is highly configurable to meet utility demands; not only is usage history available, but other data points can be mapped to the same graph. In this case temperature and rainfall are mapped in conjunction with usage.



FIGURE 12: SENSUS ANALYTICS CUSTOMER PORTAL USAGE

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ATTACHMENT J: VISIO SYSTEM DIAGRAM



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ATTACHMENT K: SUPPLEMENTAL ELECTRIC INFORMATION

Sensus Stratus IQ+

(Device Type 96)

TABLE 1: SENSUS STRATUS IQ+ METER SPECS

Form	Class Amps	Voltage Volts	Service Switch
1S	200	120	
2S	200	240	
3S	20	120, 240	
4S	20	240	
12S	200	120	
25S	200	120	
1SRD	200	120	X
2SRD	200	240	X
12SRD	200	120	X
25SRD	200	120	X

Aclara I-210+c

(Device Type 105)

TABLE 2: ACLARA I-210+C METER SPECS

Form	Class Amps	Voltage Volts	Service Switch	Zigbee (Optional)
1S	100	120, 240		X
2S	200	240		X
2S	320	240		X
3S	20	120, 240		X
4S	20	120, 240		X
12S	200	120/208		X
12S	320	120/208		X
25S	200	120/208		X
25S	320	120/208		X
1SRD	200	120	X	X
2SRD	200	240	X	X
12SRD	200	120	X	X
25SRD	200	120	X	X

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Honeywell A3 ALPHA

(Device Type 110)

TABLE 3: HONEYWELL A3 ALPHA METER SPECS

ANSI Form	Class Amps	Voltage Volts	Pulse Output Board (Optional)
1S	200	120 - 480	X
2S	200	120 - 480	X
3S	20	120 - 480	X
4S	20	120 - 480	X
9S (8S, 10S)	20	120 - 480	X
12S	200	120 Network	X
16S (14S, 15S)	200	120 - 480	X
35S (5S)	20	120 - 480	X
36S (6S, 46S)	20	120 - 480	X
56S	20	120 - 480	X

Aclara kV2c

(Device Type 109)

TABLE 4: ACLARA KV2C METER SPECS

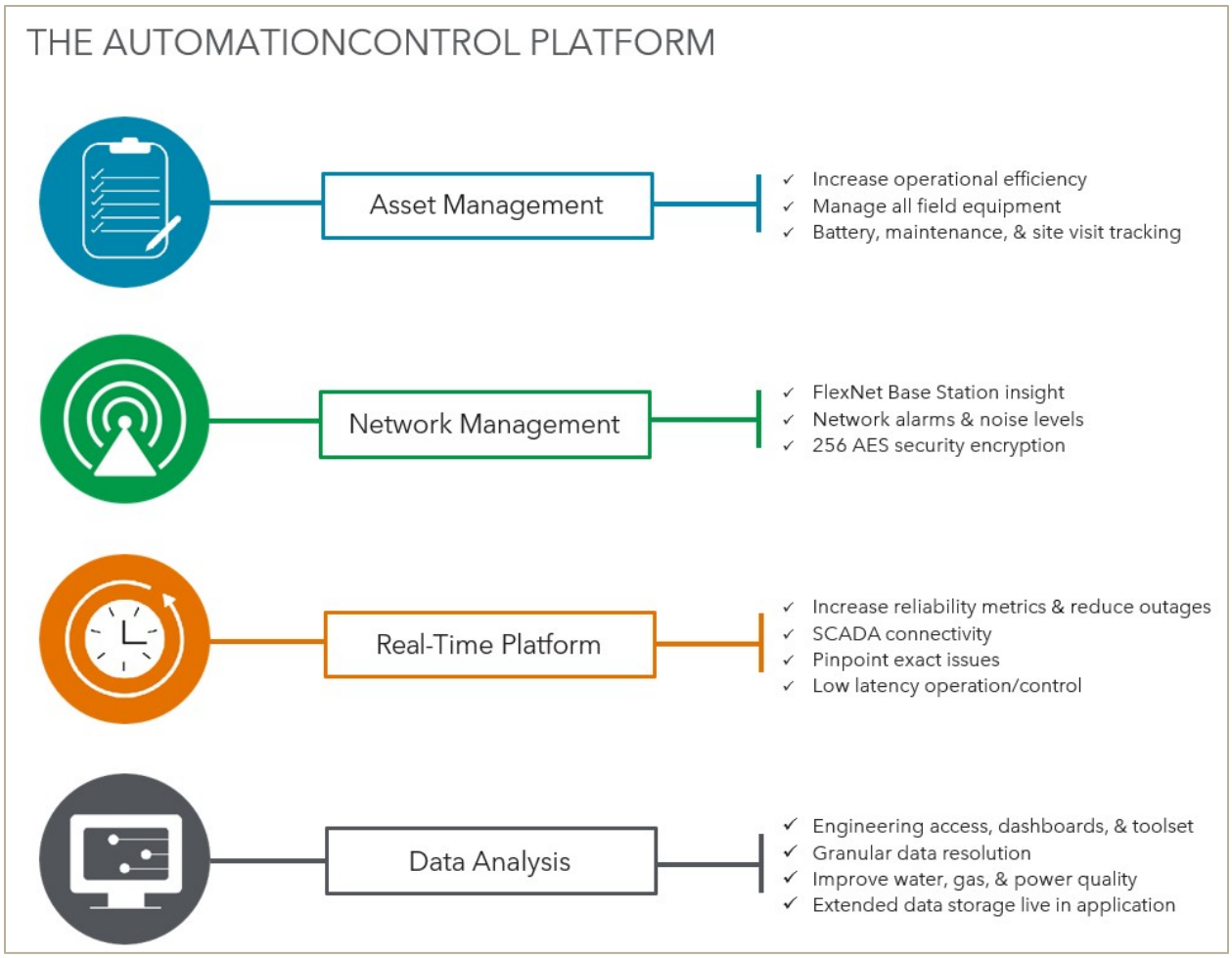
ANSI Form	Class Amps	Voltage Volts	Pulse Output Board (Optional)
1S	200	120 - 480	X
2S	200	120 - 480	X
3S	20	120 - 480	X
4S	20	120 - 480	X
9S (8S, 10S)	20	120 - 480	X
12S (13S)	200	120 - 480	X
16S (14S, 15S)	200	120 - 480	X
35S (5S, 45S)	20	120 - 480	X
36S (6S, 46S)	20	120 - 480	X

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Figure 5



Figure 6



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Figure 7:

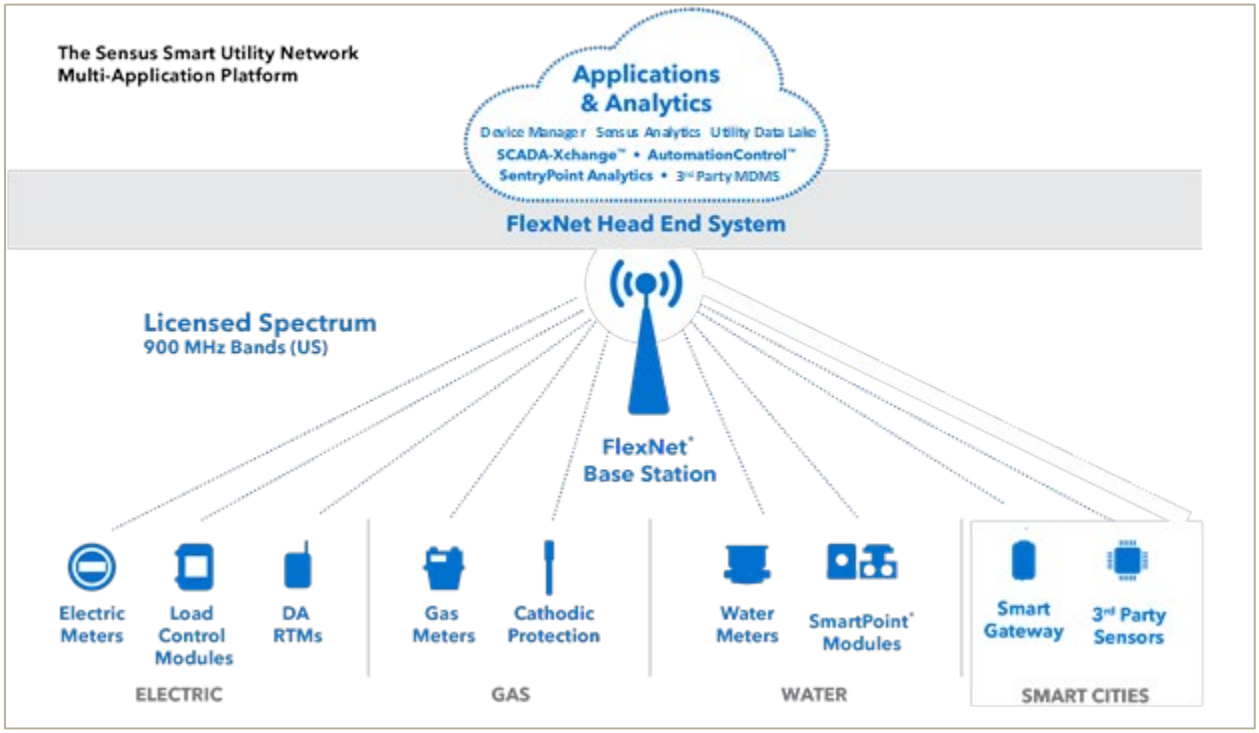


Figure 8:

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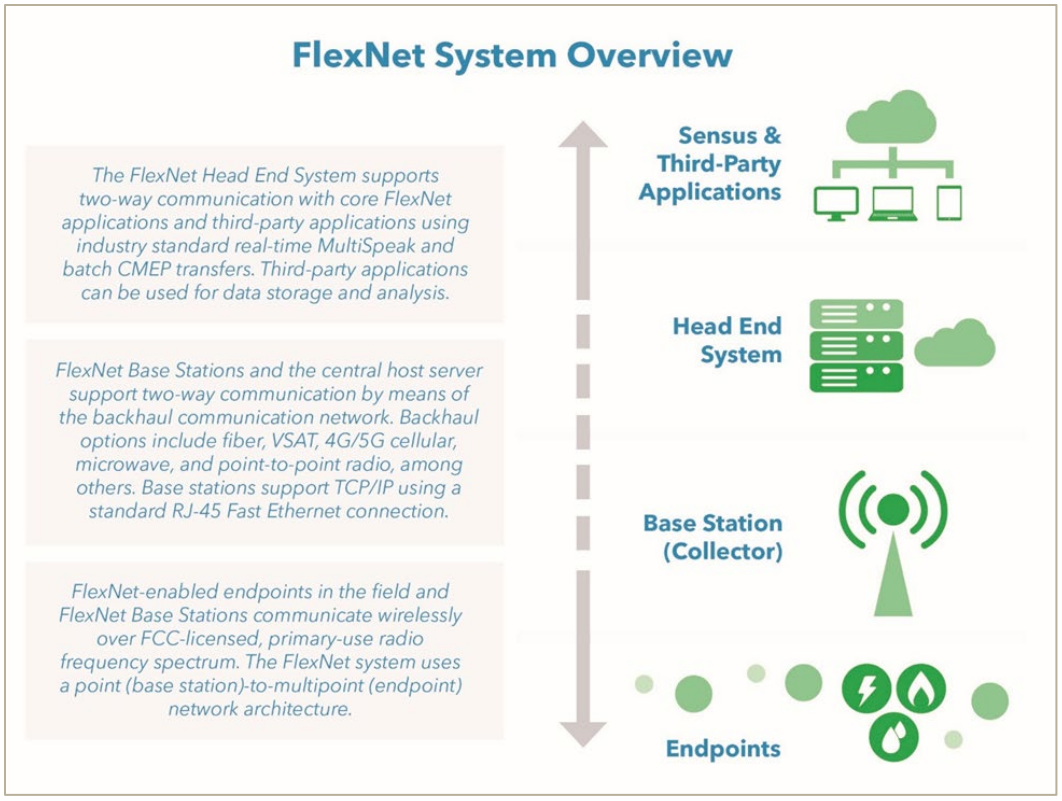
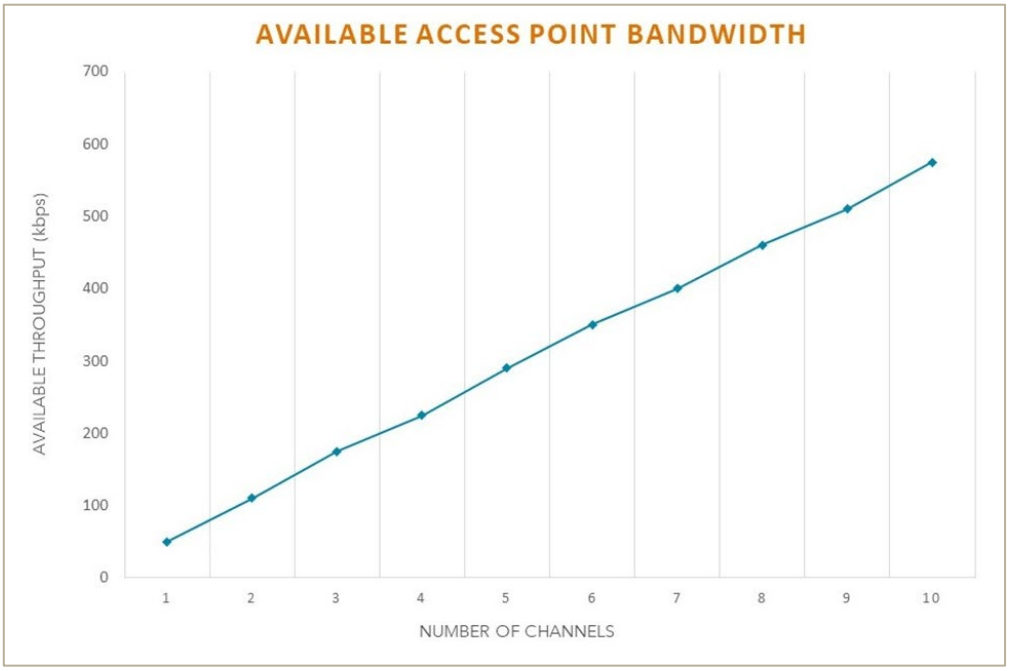


Figure 9:



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ATTACHMENT L: SENSUS TRAINING COURSE CATALOG

Sensus Education & Training

COURSE CATALOG



Summary of Available Education

- FlexNet® Introductory Series
- FlexNet® for Operators
- FlexNet® for Administrators
- Meter Installation
- Sensus Analytics
- R100NA Collector
- M400D Base Station
- Automatic Meter Reading (AMR)
- VantagePoint® Lighting Control

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FlexNet® Introductory Series

This series of modules gives new customers a basic understanding and appreciation of the components and applications within the Sensus FlexNet® communication network.

AUDIENCE	New Customers
METHOD	Instructor-led
	eLearning
DURATION	6 hours

Topics include:

- FlexNet® Network
- FlexNet® Roles & Responsibilities
- Regional Network Interface (RNI)™
- Sensus Launch Pad Applications
- Device Manager
- Network Pulse Application
- System Administration Application
- Sensus® Analytics™

FlexNet® for Operators

This series of modules is designed to familiarize new customers in the operator role with the fundamental tasks required to monitor the Sensus FlexNet® communication network.

AUDIENCE	FlexNet® Operators
METHOD	Instructor-led
	eLearning
DURATION	8 hours

Topics include:

- Monitoring Overview
- Monitoring Network Performance
- Monitoring RNI Operation
- Monitoring Meter Operation

FlexNet® for Administrators

This series of modules is designed to familiarize new customers in the administrator role with the fundamental tasks required to monitor and maintain the Sensus FlexNet® communication network.

AUDIENCE	FlexNet® Administrators
METHOD	Instructor-led
DURATION	4 hours

Topics include:

- RNI Component Review
- Monitoring Overview
- Security: User Access Control
- Security: System Access Control
- Security: Data Access Control
- System Operation
- Firmware Download

Meter Installation Series

(Water / Gas / Electric)

This series of modules gives new customers installation recommendations for meters and their associated SmartPoints.

AUDIENCE	New Customers
METHOD	Instructor-led
	eLearning
DURATION	6 hours

Topics include:

- FieldLogic™ Hub
- Field Device Setup
- FieldLogic™ Tools Connect
- Field Installation
- FieldLogic™ Tools Additional

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Sensus Analytics

This self-paced eLearning series of modules gives new customers the essentials of the Sensus Analytics (SA) meter data management software.

AUDIENCE	New Customers
METHOD	eLearning
DURATION	Self-paced

Topics include:

- Introduction to SA
- Device Access
- Billing Access
- Report Access
- Meter Insight
- Alarm Insight
- Administration
- Customer Portal

R100NA Collector

This series of modules is designed to familiarize the participants with the R100NA Collector.

AUDIENCE	New Customers
METHOD	Instructor-led
DURATION	1 day

Topics include:

- Hardware, Software and System Overview
- Installation
- Transceiver Login
- Software Configuration
- tgbmenu
- Monitoring
- Maintenance
- Troubleshooting

M400D Base Station

This series of modules is designed to familiarize the participants with the M400D Base Station.

AUDIENCE	New Customers
METHOD	Instructor-led
DURATION	1 1/2 days

Topics include:

- Introduction
- Hardware Overview
- Transceiver Chassis Overview
- Installation Procedure
- Operating System
- Transceiver Log In Procedure
- Power On/Off
- Transceiver Power Cycling
- Software Configuration
- tgbmenu
- Configuring the Power Supply
- Maintenance
- Troubleshooting

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Automatic Meter Reading (AMR)

Walk-By

This three-part series of education is designed to familiarize the participants with the AMR Walk-By solution.

AUDIENCE	▪ AMR Utility personnel
METHOD	▪ Remote (Consultation) ▪ Instructor-led ▪ Field Skills Verification
DURATION	▪ 4 hours (remote) ▪ 1 day On-site

Topics include:

- Remote Set-up Consultation
- Introduction to AMR
- Introduction to AutoRead®
- Meter Reading Functions in AutoRead®
- AutoRead® Troubleshooting
- HandHeld Operations
- Field Skills Verification

Walk-By / Drive-By (WBDB)

This three-part series of modules is designed to familiarize the participants with the AMR Walk-By/Drive-By solution.

AUDIENCE	▪ AMR Utility personnel
METHOD	▪ Remote (Consultation) ▪ Instructor-led ▪ Field Skills Verification
DURATION	▪ 4 hours (remote) ▪ 1 day On-site

Topics include:

- Remote Set-up Consultation
- Introduction to AMR
- Introduction to AutoRead®
- Meter Reading Functions in AutoRead®
- AutoRead® Troubleshooting
- HandHeld Operations
- Vehicle Gateway Base Station
- Meter-reading in AutoVu®
- Field Skills Verification

VantagePoint® Lighting Control

This series of modules is designed to familiarize new customers with the VantagePoint® software used to monitor and control lighting modules in the Sensus FlexNet® communication network.

AUDIENCE	▪ New Customers
METHOD	▪ Instructor-led
DURATION	▪ 1 day

Topics include:

- Introduction
- Monitoring the Lights
- Controlling the Lights
- Managing the Lights
- System Administration

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CLASS DESCRIPTION

FlexNet® for Administrators

RNI 4.7 RELEASE

The FlexNet Administrator class provides guidance and instruction to new customers in the administrator role in water, gas, and/or electric service utilities, on performing daily monitoring and maintenance tasks for a FlexNet® communication network, including those for securing the FlexNet network, and configuring and managing RNI system operation and FlexNet components.

FlexNet

METHOD

- Instructor-led class (customer's site)
- eLearning

PREREQUISITES

- FlexNet Introductory Series

AUDIENCE

- FlexNet Administrators

DURATION

- 1/2 day

RESOURCES

- sensus-training.com
- My Sensus
- 1-800-638-3748

WHAT'S NEXT

- FlexNet for Operators
- Sensus Analytics

CONTENT SUMMARY:

Module 1: RNI Component Review

- Describe the primary functions of the software application servers.
- Recognize that third-party software is required.
- State the purpose of the MultiSpeak interfaces in the RNI.
- Describe the type and format of reports available from the Reporting Component.
- Describe the high-level flow of data through the RNI.

Module 2: Monitoring Overview

- List the three key areas of the monitoring process.
- Describe some of the tasks performed in each of the three areas of the monitoring process.

Module 3: Security: User Access Control

- Identify the process for creating secure user accounts.
- Explain the difference between a service role and a functional role.
- Create a custom role.
- Define the password policy parameters.
- Create and delete user accounts.

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CONTENT SUMMARY CONTINUED

Module 4: Security: System Access Control

- Recognize the actions taken by Sensus to secure the RNI servers.
- Describe why using Transport Layer Security (TLS) certificates are important.

Module 5: Security: Data Access Control

Sensus Encryption Solution Overview

- List the primary methods used for controlling access to data.
- Describe the overall encryption process for existing and new endpoints.
- Describe the five stages of key management.

Planning for Encryption

- Name the three stages of encryption planning.
- Identify the major components of each planning stage.

Configuring Encryption Settings in the RNI

- Identify the encryption settings in the RNI.
- Recall the steps to enable encryption on an installed device in Device Manager.

Module 6: RNI Operation

Introduction to the RNI Reporting Component

- Describe the role of the RNI reporting component.
- Identify the output file formats.
- Recognize the reports created by the reporting component.

Managing Scheduled Jobs

- Identify the tools used to manage scheduled jobs.
- Verify reports are being generated in a timely fashion.
- Describe the procedure used to investigate failed jobs.

Setting Notifications

- Identify the process for setting soft alarm notifications.

Module 7: Electric Firmware Downloads

Firmware Download Overview

- Explain why to use the meter firmware download process.
- List the components that can be upgraded.

FlexNet V1

- Identify which protocol version is used based on meter type and firmware version.
- Describe the functions of the various download steps.
- List the order in which the steps are performed.
- Describe the difference between protocol version 1 and protocol version 2.

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CONTENT SUMMARY CONTINUED

FlexNet V2

- Identify the meter types which use the FlexNet Version 2 file transfer protocol.
- Describe the functions of the various download steps.
- List the order in which the steps are performed.

Firmware Download Considerations

- Identify network bandwidth and other issues to consider before performing a firmware download.

Performing Electric Meter Firmware Downloads

- Describe the preparations for and initiation of an electric meter firmware download.
- Indicate where to follow the download process as it runs.
- Determine which meters have failed to update their firmware.

Module 8: Water / Gas Firmware Downloads

Firmware Download Overview

- Explain why to use the meter firmware download process.
- List the components that can be upgraded.

Firmware Download Process

- Describe the overall download process.
- Identify network bandwidth and other issues to consider before performing a firmware download.

Performing Water/Gas Firmware Downloads

- Describe the preparations for and initiation of a water or gas meter firmware download.
- Indicate where to follow the download process as it runs.
- Determine which meters have failed to update their firmware..

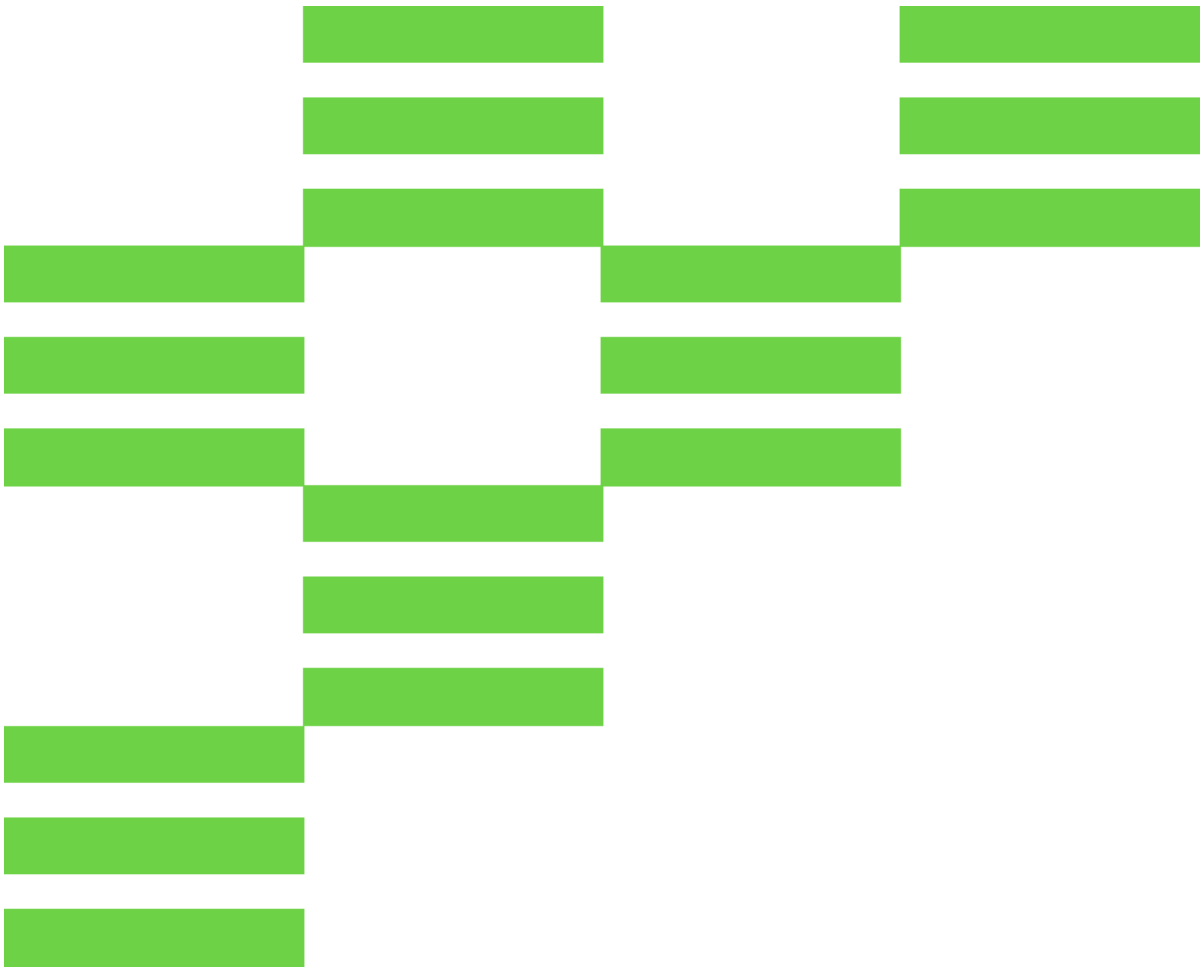
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M400B2

User Guide
AUG-10076-01



Revision History

Rev No.	Date	Description
Rev 01	JUL-2020	Updated for Unified v2.7. This User Guide replaces the previous Installation Guide, AIG-10014-xx. Updated Compliance statements.

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Sensus USA
637 Davis Drive
Morrisville, NC 27560
1-800-638-3748
www.sensus.com

Document: M400B2 User Guide

Document Number: AUG-10076-01

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1 The M400B2 Base Station

The M400B2 Base Station is an M400 transceiver installed in a custom-configured Alpha Technologies enclosure designed specifically for Sensus that provides power for radio equipment located at an outdoor site.

Designed for localized or high endpoint density use, the M400B2 is typically mounted outside on various types of utility poles and connected to an antenna mounted on the same pole.The M400B2 transceiver offers up to 200KHz of channelized receive bandwidth with a single channel transmitter.

An M400B2 enclosure includes battery back-up provisions and provides 24 VDC power to the transceiver and ancillary equipment. When mounted on a utility pole, the M400B2 does not require any additional ground space footprint.



Sensus FlexNet communication network

The Sensus FlexNet® communication network is a long-range radio network that provides scalable and reliable two-way infrastructure.

The FlexNet system operates in the 900MHz spectrum owned by Sensus. This dedicated bandwidth ensures reliable communication for a wide variety of devices and meters including electric, water, gas, and lighting systems.

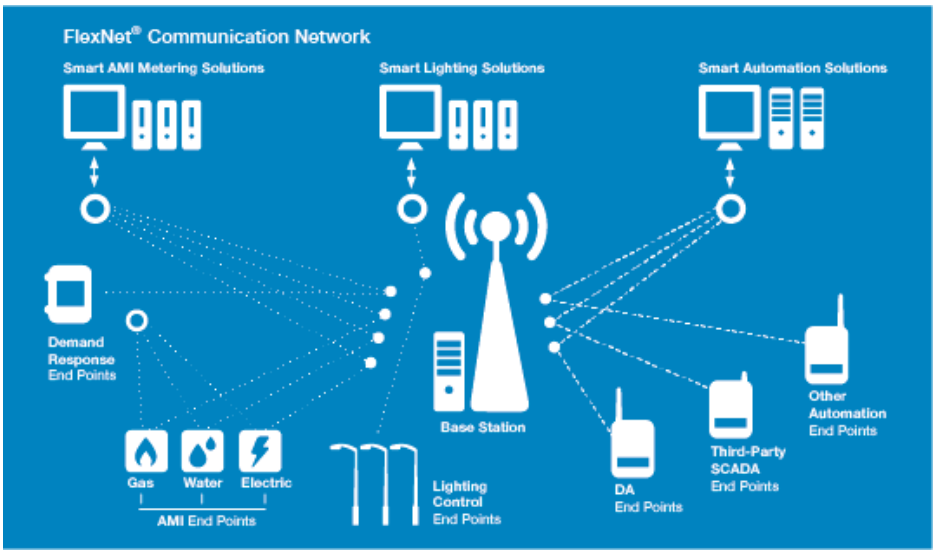
The FlexNet communication network can read devices with a FlexNet SmartPoint® module using a common AMI platform. The SmartPoint modules transmit information such as meter consumption and device status at regular intervals to one or more Base Stations. The Base Stations then forward the data to a database. The data is then accessible by multiple applications hosted by Sensus or hosted by a utility. The system supports two-way radio frequency (RF) transmissions, including on-demand readings, and remote disconnects and reconnects.

The FlexNet Base Station contains a long-range radio transceiver. It simultaneously supports communication for AMI meter reading systems and other high-value applications. FlexNet Base Stations are available with single or dual transceivers, in a variety of indoor and outdoor cabinets. A single T1/E1 backhaul line can support more than one hundred FlexNet Base Stations. Mounting FlexNet Base Stations in NEMA-certified enclosures at strategic locations within a service territory ensures optimal coverage over large geographic areas.

The Sensus FlexNet SmartPoint module is a radio transceiver that provides wireless communication capability to a variety of devices. If the device is a meter, the SmartPoint

module interrogates the meter registers on a configurable interval from once every five minutes to once daily. The SmartPoint module then transmits the meter consumption and status information at regular intervals. The number of times the SmartPoint module transmits is separate from the read setting, providing flexibility for a greater number of transmissions per read or fewer.

The Sensus FlexNet Regional Network Interface (RNI)™ provides customer functions such as billing and account management, network management functions, and data warehousing. The RNI provides sufficient network capacity for all of the Base Stations in one local RF network. The SmartPoint module data transmission packets route through the selected backhaul to the applicable RNI. The RNI's Network Controller (NC) determines where to send those data packets. Each packet contains a unique identifier consisting of a customer identification combined with a Base Station identification. The RNI is interconnected via dedicated switches for both the customer and Sensus to provide monitoring.



FlexNet system

Enclosure

Each M400B2 enclosure is based on a custom-configured Alpha Technologies Ltd. enclosure designed specifically for Sensus that provides power and environmental control for radio equipment located at a remote outdoor site.

The enclosure provides 24 Volt DC power to the transceiver and ancillary equipment and is battery backed-up.

The M400B2 enclosure is designed for pole or wall mounting.

Category	Specification
Mechanical	
Dimensions	560mm x 560mm x 246mm (22in. x 22in. x 10in.)
Weight	34 kg (75 lbs.) without batteries
Connections	AC input: screw terminal, 14-10AWG, 90°C wire
Electrical	

Category	Specification
Input	120 VAC operating voltage, 45 to 65 Hz frequency, 535 W maximum input power
Output	22-29.4 VDC (24 V Nominal) Voltage, 14A maximum Current, 400 W maximum DC power output
Power	400W
Environmental	
Temperature	Operating: -40°C to +50°C (-40°F to 122°F)
	Storage: -40°C to 85°C (-40°F to 185°F)
Altitude	-500 to 3000 meters operating (-1640 to 9840 feet)
Humidity	0 to 100% RH non-condensing
Weather tightness	NEMA Type 4

Transceiver

The M400B2 transceiver is a multi-channel, high-performance burst data radio system configured to receive a combination of multiple modulation schemes in the 896 to 960 MHz range. The transceiver unit mounts within a cabinet assembly or chassis designed specifically for it.

The transceiver RF transmitter operates on a single configurable channel (depending on the channel and regulations) in the 930 to 960 MHz frequency ranges.

The transceiver assembles the received messages and forwards them to the RNI Network Controller via a high-speed link (such as ISDN or T1/E1). The Network Controller (NC) eliminates redundant messages (for example, messages from endpoints that were received by more than one Base Station) before forwarding them to the database server.

The transceiver also notifies the RNI of any alarm indications such as low battery, loss of power, an open door, or low AC power.

M400B2 transmitter specifications

Category	Specification
Dimensions	10"W x 5.25"D x 1.75"H
Temperature	-40°C to +60°C Operating, -40°C to +70°C Storage
Humidity	95% non-condensing, Operating & Storage
Operating Voltage	20V to 32V
Output Power	+39-42 dBm nominal (cabinet antenna port)
TX Frequency Stability	1 ppm
Compliance	FCC CFR47 Part 15, Part 24 and Part 101 IC RSS 119 and RSS 134 UL/CSA 62368-1 – Standard for Safety Audio/Video, information and communication technology equipment
Emission Designator	5K90F1D/11K8F1D/8K75F1D/17K5F1D
Authorized Bandwidth	Part 24/RSS134 = Mask 10 kHz and 20 kHz

Category	Specification
	Part 101/RSS119 = 25 kHz

M400B2 receiver specifications

Category	Specification
Ambient Temperature	-40°C to +60°C Operating, -40°C to +70°C Storage
Sensitivity	Normal Mode: -122 dBm
	Half Baud (C&I): -125 dBm
	Boost Mode: -132 dBm
Noise Figure	<3dB typical @25C
Adjacent Rejection (referenced from RX frequency)	<100kHz: >40dBm
	100-1000kHz: >50dBm
	>1MHz: >70dBm
Receiver Overload exclusive of preselector (referenced from RX frequency) (assumes clean CW source)	-50dBm
Non-operational Front-end Overload	+10dBm
Receiver IF (non-DSP) Passband	> 200 kHz
Receiver Preselector/ Duplexer	> 1 MHz
Number of Independent Receive Channels	Up to sixteen 12.5 kHz channels or eight 25 kHz channels
Tuning Frequency Resolution	RF Frequency = <100Hz
	CPC Channel = 6.25 kHz

M400B2 additional components

The M400B2 enclosure includes these components in addition to the transceiver.

Duplexer

The duplexer combines the transmit and receive signals so that only one antenna is necessary. The duplexer routes the transmit and receive signals to the respective ports on the transceiver.

External RF power amplifier

An external power amplifier, mounted separately in the enclosure, connects to the transceiver for power supply.

Battery

The M400B2 enclosure utilizes two (2) Enersys XE-40 12 Volt lead acid batteries.

These batteries connect in series to provide the 24 volts of DC backup power for the transceiver. These batteries, when new, should provide approximately 40 hours of backup power when the transceiver is idle or in receive-only, and at least 8 to 10 hours of backup power when the transceiver is transmitting at the maximum rate

Power supply

An IP-addressable Cordex power supply comes standard in the M400B2. The power supply consists of a controller and a single rectifier which supplies 400 Watts of power to the unit as well as charging the 24-volt string of backup batteries. The power supply can be connected to a PC via the ethernet cable attached to the unit and configured or monitored via the PC if desired. Units are pre-configured at the factory with a standard configuration profile; however, unit configuration should be modified when installed with the appropriate network information.

SPM-900 (optional)

The Sensus Power Monitor (SPM-900) is an optional component that monitors for antenna damage and RF power output failures in the Base Station.

The SPM-900 is inserted in the RF path between the duplexer output and the coaxial cable feed line, mounting directly on the inside of the M400B cabinet.

The device reports on forward and reflected power for the last RF signal applied as well as communicating an antenna fault alarm when that signal's reflected power is above a threshold that would indicate antenna or cable damage.

SPM-900 specifications

Category	Specification
Frequency Range	896-960 MHz RX and TX Path, 928-960 MHz TX Measurement Path
RF Input Power	20-50 dBm
RF Power Accuracy	± 1.0 dBm
Insertion Loss	1.0 dB Maximum

GPS antenna

A Trimble Bullet III GPS antenna is supplied with the Base Station.

The antenna is mounted to a pipe with a standard 3/4" NPT pipe thread. Sensus does not supply equipment or cables for remote mounting the antenna.

The antenna is an active GPS antenna with a 35 dB preamp; the required 5 VDC is supplied from the Base Station transceiver.

2 Pre-installation guidelines

There are roles, responsibilities, processes, workflow, personnel identification, and communications between working groups that ensure the successful installation and necessary hand-offs between specific entities associated with the M400B2.

These guidelines discuss on-site prospecting and propagation studies and provide general site requirements. This following information assumes that the initial customer data has been entered into the FlexNet Solution Request (FSR) system.

Kickoff meeting and Scope of Work (SOW)

A kickoff meeting is held at the beginning of the project and a Scope of Work is completed.

1. Frequency and Utility Code assignment—The FSR process will be updated and reflected accordingly after Sensus Marketing Technical Sales (MTS) or purchasing has notified the Spectrum Manager. At the time of frequency and utility code assignment, the Spectrum Manager will notify the Sensus Project Manager (PM) and any associated Field Engineers.
2. Kickoff meeting—The PM assigned to the project will coordinate the initial kickoff meeting either internally or externally to help set the stage for site walks themselves. The PM should include the general contractor, utility personnel, site representative, and decision makers to create an SOW during the visit. It will be important to solidify the SOW in a single visit. A Sensus PM or Field Engineer will contact a General Contractor (GC) to acquire site information such as availability if it is a leased facility, and proposed lease cost. (For customer-owned sites the Sensus PM will contact GC and provide site information.) The GC will turn site information over to the leasing department to determine available antenna heights, building floor space availability, or outdoor ground space availability.
3. Site Visit SOW—A Sensus standard template for the SOW will be completed by the assigned group which may be assigned to the Sensus Field Engineer or GC during the visit. The current form will be forwarded to all agreed to parties for completeness once completed. The completed SOW will be presented to the PM and Field Engineer (if one is present). The PM will verify the SOW against the original FSR design and make recommendations if a rerun of the design is warranted based upon the actual sitewalk specifics captured. The PM will be concerned with the antenna type used, cable types or lengths, and eventual centerline of the antenna or any other specific changes that may affect the overall design or eventual coverage of the Base Stations.
4. Notice to Proceed—The assigned Field Engineer will send a notice to proceed to the PM after the SOW has been approved. The PM will share the SOW with all associated parties. A schedule will then be presented to the PM for distribution to the utility once the contractor has received a timeline from all general contractors associated with the installation group. If the Sensus PM authorizes the site as a potential project and authorizes the GC to pursue the lease, then the GC will submit a site application form to the leasing department with the needed information (address, antenna make and model and height, coax type, grounding requirements, electrical requirements, mounting specifics, and so on). Site leases are typically provided by the utility or through negotiations between the utility and a third-party site owner.

5. Installation coordination—The PM will have ultimate responsibility for the overall coordination and timing of the installation with support from the assigned installation contractors as well as an associated Field Engineer, if applicable, to the project.
6. Requisitions are submitted to purchasing to acquire purchase orders for site hardware and tower crew.

Site walk and SOW process

The following describes the site walk and statement of Work process for both leased and customer owned sites.

1. Site walks will be performed by an Installation Contractor and/or Sensus Project Manager, who will ensure a digital camera is available for the site walk.
2. nstallation requirements include the following:
   - Base Station or R100NA location inside of building, or pole space for Base Station or R100NA installation.
   - Confirm electrical requirements.
3. When the site walk is complete, the GC will create the SOW document for Sensus review. The SOW is to include the following information:
   - Customer Name and contact information.
   - CMS Project Number.
   - Site Name.
   - Leased or Customer Owned.
   - FCC Registration number (if applicable).
   - Address, City and State.
   - Latitude and Longitude.
   - Height of antenna.
   - Site Type (Tower - Water Tank - Building).
   - Contributing Departments:
     - Sensus PM name and contact information.
     - GC PM name and contact information.
     - Tower Crew and contact information.
     - Customer name and contact information.
   - Project Scope detailing responsibilities on site installation including pictures. Narrative clearly describing all work to be performed at site (antenna mounting, cable route and clamping, terminations, grounding, surge arrestors, Base Station placement, and so on.)
   - Equipment List Detail:
     - GC to provide.
     - Tower Crew to provide.
     - Customer to provide.
     - Clean up procedures.
     - Safety statement.

4. SOW shall be submitted to Sensus PM, Tower Crew (if separate from GC), Sensus Field Engineer (if applicable), and Customer (if applicable), for review.
5. Changes shall be made to the SOW if required.
6. The Sensus PM and GC PM, and if applicable, the Sensus Field Engineer, Tower Crew and Customer, shall all agree on the SOW.
7. Sensus requires a project cost estimate to include hardware, installation, administrative, and travel costs. The estimate is to be submitted to the PM per site.
8. If the site is still needed for the Base Station or R100NA project, the Sensus PM shall provide purchasing approval to the GC PM for the site installation materials and contractor work. This purchasing approval needs to be after an estimate of the total cost for the project is obtained.
9. The GC submits a quote for installation of antenna and associated hardware.
10. The GC PM submits material requisitions and quote for hardware to purchasing for internal processing approval.
11. The GC PM submits contractor requisitions and quote for installation to purchasing for internal processing approval.
12. Purchasing issues purchase orders for materials and contractors.
13. The GC PM coordinates with the Sensus PM on installation dates.

Site walk considerations

Input on variables addressed in the steps below could prove invaluable to the engineer performing the propagation study. The information obtained from the site walk should be forwarded to the engineer providing the propagation study.

1. What variables may impact antenna installation and operation?
    - At the specified height of the antenna, are there other antennas in the same horizontal plane that have emissions within 50 MHz of the proposed M400B2 or operating frequency? What is the radiated power of the antennas in the same plane as the M400B2 antenna? What are the frequencies of the antennas in the same plane as the M400B2 antenna? Can the M400B2 antenna be mounted at a different height than others that radiate at frequencies close to the M400B2's receive frequency?
    - Is the antenna's path unobstructed in all directions if an omni-directional antenna is wanted for the installation?
    - If the antenna cannot be mounted on the top of the tower, or in a 360° field of view on a structure, does the available antenna placement constrain the antenna's omni-directionality (if the proposed antenna is omni-directional) due to antenna shading by the tower or the structure it is mounted to?
    - Will the site owner require the antenna to be mounted "upside down"? If so, an inverted pattern antenna will need to be ordered.
    - For installations where directional antennas are specified, is there enough space to mount the antennas?
    - Will the antennas be able to point in the wanted direction with a clear field of view?
    - Are there any special mechanical needs that have to be addressed due to antenna weight, size, and wind loading?

2. What constraints may be placed on an individual site due to the type of coaxial cable specified?
   - Inquire if the coaxial cable to be specified by the propagation study engineer would need any special mechanical changes to the tower or the mounting structure.
   - Inquire if the hangers required, and the coax size will fit through the existing openings of the equipment shed or building and if additional cost will be added to enlarge openings if needed.
3. Local RF Environment Study
   - Walk the equipment site and log any transmitter frequencies that may be operating within 50 MHz of the M400B2 receive frequencies.
   - Log the type of transmitters that you may have found in the last step (such as pagers, two-way radios, SMR, MAS).
   - If available on the equipment cabinets, log the output power of the transmitters you have found within 50 MHz of the M400B2 operating frequency.
   - Perform a Latitude/Longitude and Frequency search on the FCC ULS website and determine if other potential interferers may be in the general area of the prospective site. Check frequencies that are sub-harmonics of your operating frequency (i.e. for a 901.125 NBPCS installation, check 450.5625 ±1 MHz).
4. Local RF Noise Study
   - If possible, perform a noise sweep with a spectrum analyzer to determine if any broadband noise is seen in the M400B2 receive frequency band. You may have to rely on a hand held antenna (worst case).
   - If possible, perform an interference study with a spectrum analyzer to determine any transmitters on the tower are within 50 MHz of the M400B2 receive frequency. Coordinate this data with the lists you generated above by reading the frequencies off of the equipment installed on site.

Propagation study

The propagation study, along with the data collected earlier in the process, will determine if a site is applicable for deployment.

Your propagation study will include antenna type and mounting locations. If the identified mounting location is not feasible, you must contact Sensus Engineering for further instructions.

This section does not address propagation study details but the following steps should be performed based on the site survey:

- Report information gathered above to the engineer performing the propagation study and to the party specifying the M400B2 for the customer.
- Tweak and re-run the propagation study to determine if variables collected in the site survey are important to site selection.

Base Station antenna types and specification

Base Station installations may utilize several types of antennas. The antenna type, gain, and performance will be specified by the engineering team that provides the propagation study.

Antennas can be directional (“see” in one direction better than others), or omni-directional (“see” in all directions equally well).

The following generic specifications must be confirmed for acceptable coverage with a propagation study.

Type	Requirement
Antenna Frequency Range	Must cover 896 to 960 MHz . Antenna may cover wider frequency range if necessary.
Antenna Impedance	50 Ohms
Antenna VSWR	1.5 to 1 or better
Antenna Polarization	Vertical (Standard Installation)
Antenna Pattern	Omni-Directional Direction if required by Propagation Study

Note: Individual Specifications may change due to the outcome of the propagation study.

Note: Due to mounting constrains, the antenna may have additional specifications to use on an inverted mounting pattern.

Permits and licenses

It is the responsibility of the Sensus Project manager to ensure that the tasks of obtaining all permits, licenses, and so on are accomplished.

The parties responsible for actually preforming the duties of application depends on the owner of the site:

1. If the tower is owned by the customer, it is the customer's responsibility to apply for all permits, licenses, and so on.
2. If the tower is owned by a third party, it is the tower owner or lessee's responsibility to apply for all permits, licenses, and so on.

3 M400B2 installation

Remove all packaging material from the enclosure. Inspect the packing slip to verify that all equipment is there. Inspect moving parts, hardware, connectors, and installed equipment, including any mounting plates for pole or wall mounting and the mounting bolts sets if applicable.

Note: Report any damage to Sensus immediately.

Note: For the full installation guide, including configuration and safety instructions, please see the latest version of AUG-10071-xx, available on My Sensus.

Site considerations

The information in this section is intended as a guideline; there may be site-specific requirements and other factors that will require individual attention, such as regulatory jurisdictional codes and construction covenants.

The M400B2 enclosure has been designed to hang on a pre-existing utility pole, though other configurations are possible. The supporting structure must be designed to support a fully configured enclosure. In addition, the mounting site must be designed and installed in accordance with local building practices and codes.

Any mounting site must be designed and installed in accordance with local building practices and codes.

Any antenna mounting site must be determined by a Sensus propagation study and approved by Sensus Engineering.

Site consideration should include:

- Enough space for transportation and installation is available.
- A proper grounding connection is available.
- Access to mains power (AC).

Note: Sensus must have continuing remote access to the power system. Updates and other changes to the power system, as well as monitoring and management, can only be performed by Sensus at this time. Therefore, if the power system access is placed behind a private network, there must be a provision made to give Sensus access to the power system.

CAUTION: High Leakage Currents are present. An improperly grounded enclosure presents an electrical hazard.

CAUTION: Verify electrical codes prior to installation. Codes may vary and contain specific conduit and wire sizes for connection to the AC load center. Connection to utility power must be approved by the local utility before installing the power supply.

Grounding

Minimum requirements for grounding are established in this section in order to ensure equipment and personnel safety in the case of lightning strikes. Good grounding practices also provide some measure of RF shielding from outside interference which could hamper the proper operation of the unit.

A common cause of equipment failure is lightning damage due to insufficient grounding protections. Tower sites are frequently struck by lightning because they typically point higher than the surrounding terrain and other nearby structures. When struck, the voltage drop from the top to the bottom of the tower can be extremely high. Unless bonded to the tower, coaxial cables and other equipment installed on a tower struck by lightning will be at a low voltage potential compared to the tower at the instant of a strike, thus causing a high voltage potential across the cable insulating sheath, which can cause voltage breakdown of the sheath material (pin holing).

Proper site grounding disperses the energy of a lightning strike such that on-site personnel are not harmed and equipment is not damaged.

CAUTION: High Leakage Currents are present. An enclosure that is not properly earth grounded can present an electrical hazard.

Site grounding

Site grounding should be addressed as a part of the civil works associated with the construction of a tower or mast, equipment building and the provisioning of AC power. For new sites or where existing sites have a history of equipment being damaged by lightning strikes, a company specializing in lightning protection services and site earthing should be consulted.

A continuous earth ground system must interconnect all site grounds, ideally with a radial ground system at the tower, a perimeter ground around the equipment building, and a single interconnect point for the tower and perimeter grounds at the base of the cable-entry master ground bar. This will disperse lightning energy into the earth most effectively and ensure ground voltage differentials at the site are kept to minimum levels.

A continuity test checks the effectiveness of ground wires and their bonding. Measurements are usually measured from a reference ground conductor, such as the master ground bar.

The effectiveness of a ground connection to earth also should be checked. The most reliable method is a 3-point test, based on IEEE Standard 81-1983. It references three points of earth contact; the ground conductor under test, and two probes inserted into the ground at an applicable distance, one a current probe, the other a potential probe. However, for good accuracy, the 3-point test requires the ground conductor to be isolated from the equipment and /or tower, which in most instances will not be permitted for an operating site.

Note: To verify proper grounding installation, the system needs to have a resistance to ground value of 5.0 Ohms or less.

In situations where a three point test is not possible, a clamp-on resistance tester is recommended, providing the ground wire or strap location and size permits clamp-on access. While not providing the same accuracy as a three point test, it does permit a quick and easily repeatable test for routine maintenance visits.

CAUTION: Grounds must not be disconnected at operational sites. High Leakage Currents are present. The AC mains ground must not be disconnected except by a registered electrical engineer authorized by the site owner or operator.

Single point building grounding

Single point grounding is when all equipment within the building is at the same ground potential. This includes grounds for the mains and telco terminations into the building and for power supplies.

Optimum equipment grounding is provided by a single point ground using a master ground bar at the feeder entrance point; the master ground bar is connected directly to the site or tower ground system using heavy gauge copper wire or strap. The wire size should not be less than 52 mm2 (0 AWG). Effective single point grounding will also be achieved where there are multiple ground connections into the building providing these grounds are directly bonded to a common perimeter ground for the building.

The master ground bar is the ground point for:

- All equipment within the building
- Service mains ground
- Telco ground
- Cable sheath ground
- Building-entry lightning surge suppressor (coaxial feeders)

A single point ground eliminates the potential for damaging voltage differences that would otherwise occur between different grounding points. In effect, with single point grounding the ground referenced voltage for all equipment in the building rises and falls at the same level as the strike induced voltage gradient passes through the earth, thereby removing the possibility of damaging currents flowing between equipment.

Multipoint building grounding

Multipoint grounding is where the AC and telco grounds are not bonded to the site and tower ground. Instead their grounding is provided by separately installed ground rods or similar.

With such an installation, strike induced voltage gradients in the ground can cause damaging current flows in equipment connected to the different ground points. The primary objective at such sites is to reduce ground path impedance between the ground attachment points, between the equipment, and between the equipment and the grounds to minimize the magnitude of lightning induced voltage gradients between these points.

At existing sites where a single point ground system has not been implemented and cannot be cost-effectively introduced, the effects of a multiple grounded building can be mitigated by following these guidelines:

- Survey the building to determine what different external ground connections come into the building and how and where they may be interconnected. A prerequisite is a properly installed ground bar at the cable entry point to the building, to which all cables from the tower are grounded. This ground bar must connect directly to the site or tower ground system.
- Check AC power grounding and the grounding provided for incoming telco lines or similar, and if racks and other ground bonded equipment are anchor bolted onto a concrete floor, which has been poured directly onto ground.

- Different ground connections into the building must be directly bonded within the building using heavy gauge wire or copper strip (minimum 21mm2, 4AWG). The wire runs must be as direct as possible and connect between each point directly - do not connect in series. Bear in mind that what is needed is a ground-ring inside the building.
- Check that all existing equipment installed in a rack or cabinet is correctly grounded to its ground bar.

Enclosure grounding

Each enclosure must be properly grounded.

In indoor installations, each equipment rack or equipment cabinet should be grounded to a site ground via the inner building halo ground. In the case of communications shelters, the equipment enclosures should be attached in the same manner to this system halo ground. Attachments from the equipment cabinets and racks to the internal ground halo are made using number six (or larger) stranded copper wire. Ground wires must be kept as short as possible with no looping of the wire.

Connections from these enclosures to the halo ground should be made using the shortest path length to diminish inductance. If using a master ground bar, wire directly to it and DO NOT connect to another ground-wire connection on near-by equipment. Do not connect the enclosure-to-master ground bar ground wire directly to the enclosure; terminate the ground wire to the ground bar located in the enclosure, and individually connect each item of equipment installed in the enclosure to the same enclosure ground bar.

When connecting each item of equipment to the enclosure ground bar, avoid stacking multiple ground lugs on a single ground bar connection. If it becomes necessary to replace equipment and its ground wire, and its ground lug is towards the bottom of the stack, other grounds must be disconnected to remove the needed one, which will disrupt ground connectivity to other equipment.

Required tools & equipment

The following items are required for a successful installation.

- Basic tools such as a multimeter, SMA torque wrench, flat and Phillips head screwdrivers, sidecutter, socket wrench set (Metric and SAE), spirit level and a tape measure.
- **17mm socket with extension**—for the bolts that attach the cabinet to the mounting bracket.
- **Auger or drill**—for boring 9/16" diameter holes in the pole.
- **Laptop computer**—equipped with a USB port, USB-A to USB-B type cable, and a terminal program capable of emulating a VT100 terminal, like Tera Term Pro or PuTTy.
- **Sensus Handheld Field Tool** (optional)—Provides an easy way to check for proper basic reception or transmission from the transceiver.



Note: The Sensus Handheld Field Tool verifies basic antenna connectivity only and does not guarantee full antenna operation.

The site's transmission line, surge suppressor, antenna, and associated gear are assumed to be properly installed and previously checked for proper operation. Diagnostic gear and procedures for troubleshooting the receive/transmit chain are not covered in this document.

Quantity	Description
1	M400B2 Enclosure equipped with all hardware needed for installation as specified by Operations or Engineering.
1	Network Communications Cable (depends on network connection specified). For internet communications, an Ethernet cable, standard CAT-5 RJ-45 to RJ45.
1	AC power supply cable.
1	Ground conductor—#6 or better stranded or equivalent braided cable—#4 or #2 preferred.
2	½" diameter machine bolts (UNC thread), SAE (Grade 5 or better) length to suit the pole
2	½" diameter (I.D.) zinc-plated flat washers
2	½" diameter (I.D.) hex nuts (UNC thread)
1	N-Female RF jumper cable and sealant
1	RF Dummy Load (at least 10 watts) if needed for shop testing and configuration.

Base Station antenna requirements

The following are the cabling requirements for the Base Station antenna.

RF Jumpers for Antenna and Base Station Connections to Main Cable	
Coaxial Cable Type	Andrew LDF Series Heliax
Coaxial Cable for Indoor Jumpers	½ inch Andres LDF4-50A (or Times Microwave LMR400)
Coaxial Cable for Outdoor Jumpers	½ inch Andrew LDF4-50A or ½ in. hardline instead of Heliax
Standard Jumper Length	6 feet (each Jumper)
Maximum Jumper Length	10 feet (one Jumper)
Combined Jumper Length	20 feet (both Jumpers)
Combined Jumper Loss (with Connectors)	1 dB

Main RF Transmission Line to Antenna		
Transmission Line Type	**Coax Length**	**Maximum Loss**
Andrew AVA5-50, 7/8"	0 to 200 feet	2.4 dB @200 feet
Andrew AVA6-50, 1-1/4"	200 to 300 feet	2.5 dB @300 feet
Andrew AVA7-50, 1-5/8"	300 feet +	0.725 dB per 100 feet
Connector Loss (All Transmission Line Types)		0.5 dB maximum

Maximum Loss from Base Station RF Connector to Antenna (for less than or equal to a 300 ft. transmission line run inclusive of connectors and transmission line)	
RF Jumpers + Connectors	1.0 dB
Transmission Line + Connectors	3.0 dB
Total	4.0 dB

Note: Lower loss Heliax cable may be substituted on run lengths greater than those specified for a given diameter if the maximum loss of the transmission line is equal to or less than that specified originally for that diameter at the maximum length.

Note: Endeavor to use the shortest jumper cable lengths as possible.

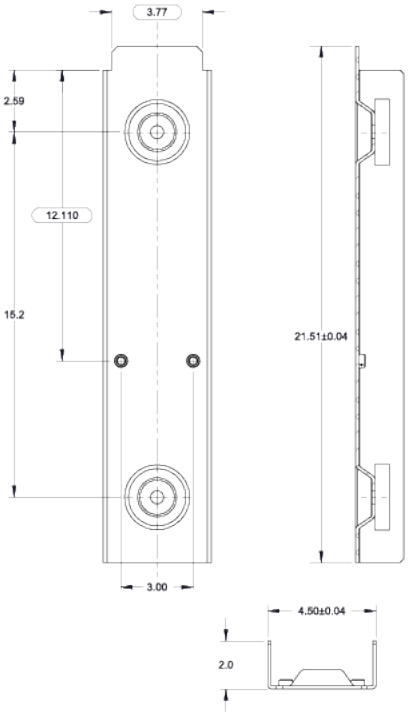
Other conditions and requirements on Coaxial Cable installations:

- Press to fit and crimped coaxial connectors are not allowed.
- Coaxial connectors must mechanically attach using screw threaded mating and torqued to manufacturers specifications.
- Coaxial connectors must be waterproof.
- Antenna connection of coaxial connector from cable must be waterproof and weatherproof.

Pole mount the M400B2

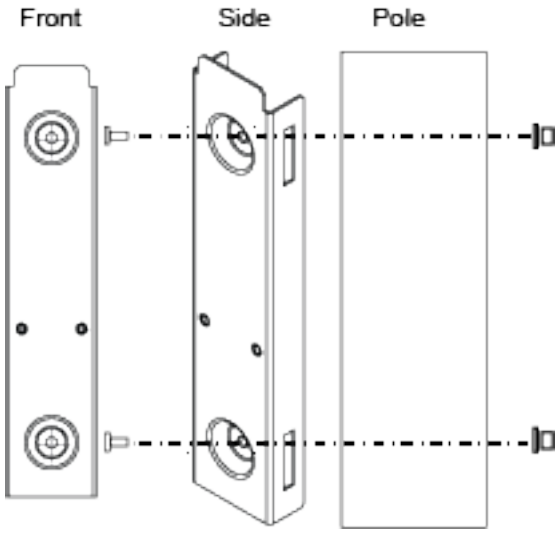
The M400B2 mounting hardware will accommodate varying pole types.

Pole installations should be on a minimum nine inch wood, metal, or concrete type pole. The pole mounting bracket can accommodate bolts, stainless steel strapping or a combination of both.

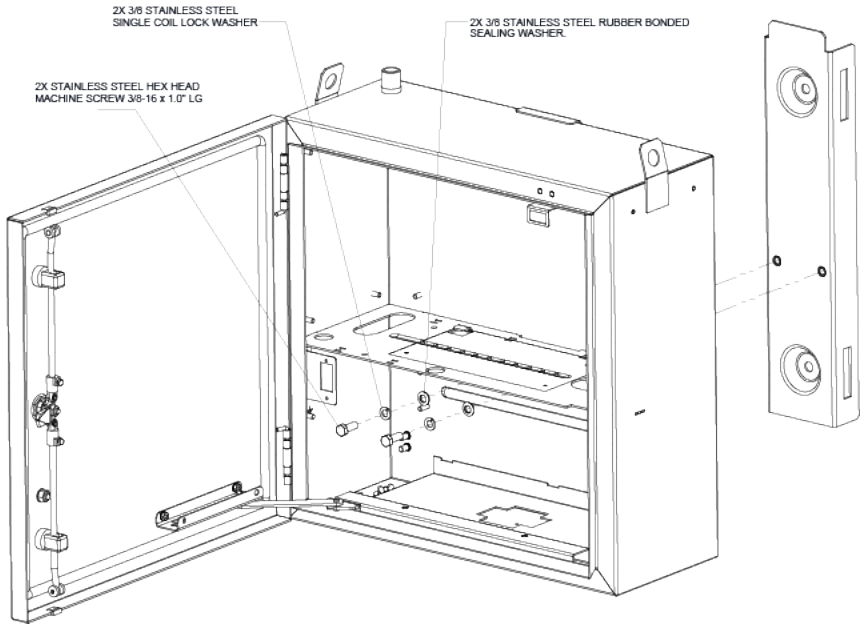


1. Remove the pole mounting bracket from the enclosure and use it as a template to drill two holes into the pole. Follow local practices for drilling the holes.

2. Secure the mounting bracket to the pole with the specified machine bolts. Torque as required.



3. Hook the top of the mounting bracket under the enclosure attachment fitting.
4. Secure the cabinet to the mounting bracket with the provided equipment. Torque the 3/8-16 bolts to 90 in./lbs.



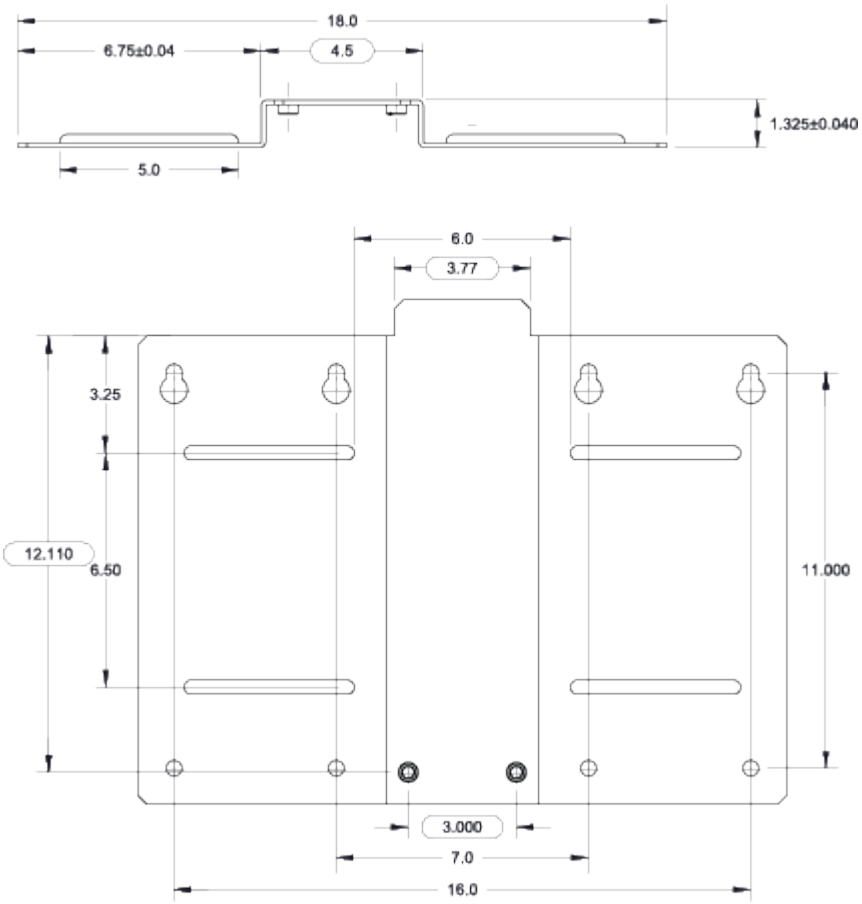
5. As an option, you can use utility grade stainless steel pole straps to thread through the provided slots. The straps should be up to 2½" wide with a minimum of three (of the wide type) if this is the primary support.

CAUTION: All local safety practices and guidelines must be followed while lifting the enclosure. All personnel involved with lifting and placing the enclosure should wear head and eye protection and gloves when required.

Wall mount the M400B2

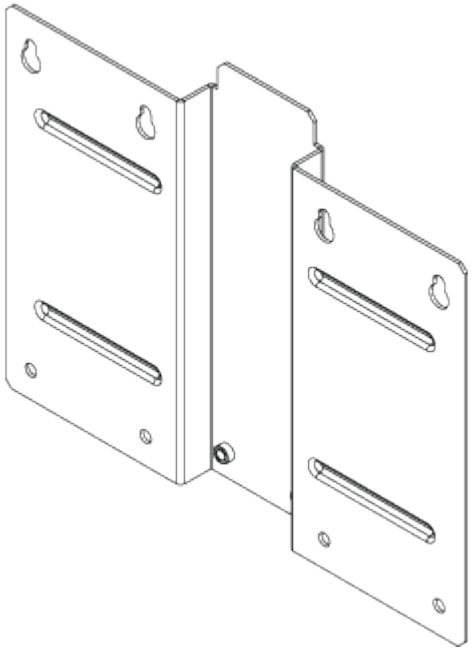
The M400B2 mounting hardware will accommodate varying wall applications.

- Hollow wall construction must be avoided as a mounting location.
- Toggle or molly anchors rated at 75 lbs. each are recommended with a two anchor minimum.
- The top wall mounting bracket holes should be located between 64" and 72" from the ground.



1. Use a standard construction level to ensure the cabinet will set plumb and level. Take the wall mounting bracket and use it as a template to drill four holes into the wall. Follow local practices for drilling the holes.

2. Secure the mounting bracket to the wall with the specified machine bolts. Torque as required.



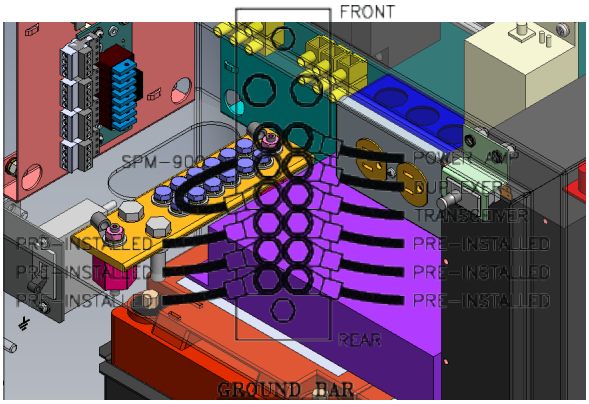
3. Hook the top of the mounting bracket under the enclosure attachment fitting.
4. Secure the cabinet to the mounting bracket with the provided equipment. Torque as required.

CAUTION: All local safety practices and guidelines must be followed while lifting the enclosure. All personnel involved with lifting and placing the enclosure should wear head and eye protection and gloves when required.

Ground the M400B2 enclosure

Each M400B2 enclosure is equipped with a Master Ground Bar that should be used for all ancillary non-AC type (lightning ground) bonding connections. This ground bar MUST be grounded to earth ground.

Equipment grounding terminations may be added to this bar for single point grounding terminations.

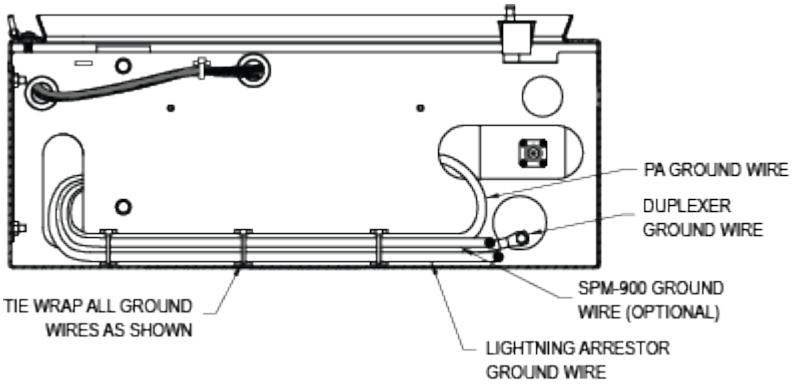


1. After the cabinet is mounted, attach a #6 minimum (#2 preferred) stranded or equivalent braided ground conductor using a 3/8" diameter double-hole lug on a 1" inch center with hex bolts. Torque as required.
2. There are three pre-cut conduit openings (1/2", 3/4", and 1") located in the base of the enclosure, sized to accommodate industry standard Seal-Tite® conduit fittings, and three watertight plugs. Remove one of these three water tight plugs and run the #6 minimum (#2 preferred) stranded or equivalent braided ground conductor that you attached in step 1 through the opening using the desired conduit type and size.

Note: Coated or jacketed lightning ground cabling can be run without using a conduit if desired.



3. Connect the opposite end to the appropriate lightning ground system; a ground source of 5 ohms or less is recommended. The enclosure and the master ground bar connection must be attached to the same source of ground wire.
4. Connect another ground conductor to the 1/4" diameter double-hole lug on a 5/8" center located on the back of the cabinet at the lower rear and then connect it to the appropriate lightning ground system. The cabinet and the master ground bar connection must be attached to the same ground wire source.
5. All grounding wires should then be tie wrapped flat to the back wall of the cabinet, underneath the shelf.



Cabling and connections

Follow these instructions for M400B2 connections.

1. Connect the backhaul to the front of the transceiver using the provided ethernet cable.

2. There are two bulkhead connectors located to the right of the battery shelf. The rear connector is for the lightning arrestor for the FlexNet transceiver. If the antenna cable is not already connected to this connector, connect it at this time, unless you are also installing a SPM-900.
3. The front bulkhead connector is for optional use when connecting auxiliary equipment. If this is applicable to your installation, install the necessary lightning arrestor and any other hardware as needed and connect at this time. You can also use this second connection to remotely mount the GPS antenna.
4. In the top back of the cabinet, there is a small location (4"x4"x4") where a router or DIN rail mounted modem can be mounted. Please note that the AC power plug is not battery backed so only the 24V DC is available if there is an AC outage.
5. Connect the antenna as applicable.
6. Set up your internet connections.

   There are two Internet-connected pieces of equipment within the enclosure: the transceiver and the power system. Two unique IP addresses are required. The power system is a standard web browser interface, and uses standard web browser access methods.

   You can set up port forwarding, which will allow traffic sent to a single public IP address to be sent to either the power controller or the transceiver, based on the TCP port.

   The M400B2 transceiver contains a built-in Ethernet switch which provides connectivity to the Power Supply Unit via a single connection without having to install a separate Ethernet switch.

Power connection

The M400B2 AC system is designed to operate on 120V AC single phase and the load center is rated at 15 Amps.

1. Ensure that all three AC breakers are in the off position prior to any terminations.
2. There are three conduit openings in the bottom of the cabinet for seal tight type terminations. Choose the size you want (½ in., ¾ in., or 1 in.), remove the plug, and leave the other two sealed to avoid water penetration. These conduit openings also can be used for ground wire or backhaul.
3. Install the appropriate size and type of conduit to the desired entry opening.
4. Base the input wiring size on voltage drop considerations and NEC table 310-16 for copper wire. The AC power conductor size must be in the #10-#16 range. Install according to code. A 120 Volt, 15 Amp minimum circuit is required.

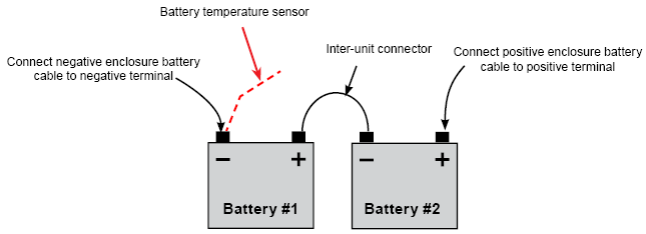
   CAUTION: Electrical service to the M400B2 cabinet should be installed by a licensed electrician in accordance with local codes. Verify electrical codes prior to installation. Codes may vary and contain specific conduit and wire sizes for connection to the AC terminal block. Connection to utility power must be approved by the local utility before installing the AC service connection.

5. Connect the AC feed to the AC Input terminal block. Attach to the lugs marked L, N, and G as applicable.

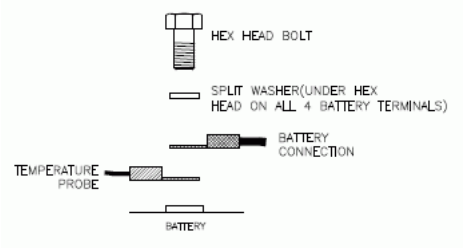
Battery connection

The M400B2 batteries should be installed in the bottom of the cabinet.

1. If not already off, turn off the battery breaker.
2. The batteries come with a plastic bag that should be placed in the bottom of the cabinet. If not pre-installed, place the batteries inside this plastic bag inside the cabinet; the plastic bag is there to catch any battery fluid in case a leak occurs.
3. Connect the battery cables leading from the Anderson-style connector to the corresponding battery terminals.



4. The temperature sensor probe should be pre-installed. If not, connect the temp sensor to the battery.



5. Torque all connections according to the battery specifications.
6. Connect the Anderson-style connector.
7. Turn the battery breaker on.

M400B2 alarm terminations

The transceiver supports eight alarm inputs. All alarms have been pre-wired at the factory; no customer wiring is necessary.

If customized alarm wiring is necessary, refer to the documentation package that comes with the components.

All system and ancillary alarms are connected via a punchdown “66 block” from the local alarm-sending unit. All alarms are Normally Open (NO) on alarm with the exception of the Intrusion Alarm, which is wired Normally Closed (NC) on alarm.

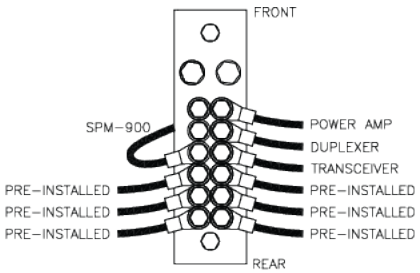
Optional SPM-900 Installation

The SPM-900 is installed on the right hand side of the cabinet, directly to the right of the batteries and underneath the duplexer.

If you are installing into a previously deployed M400, power down the unit before installation.

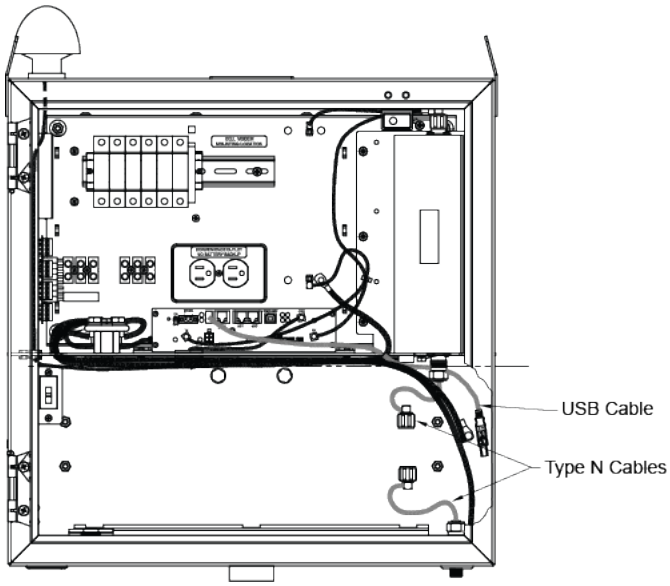
1. If already installed, remove the output cable that runs from the duplexer to the antenna feed.

2. Attach a #6 minimum (#2 preferred) stranded or equivalent braided ground conductor using a 3/8" diameter double-hole lug on a 1" inch center with hex bolts to the master ground bar. Torque as required.



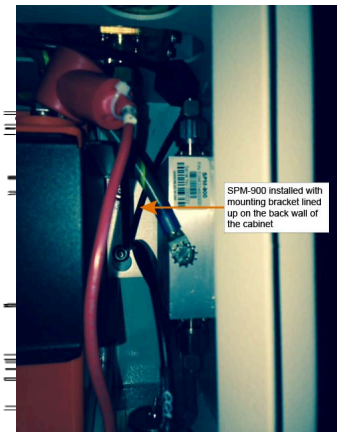
GROUND BAR

3. Run this ground cable through the bottom of the top shelf and pull through towards the front of the cabinet.
4. If you have already tie wrapped the other ground cables, you may need to cut the tie wrap(s) and move the ground cables slightly towards the front in order to install the SPM-900.
5. Plug in one end of the SPM USB cable to the USB port on the M400 transceiver and feed it through the hole next to the duplexer.



6. Attach the straight end of one of the SPM Type N cables to the duplexer output. Attach the straight end of the other SPM Type N cable to the antenna feed.
7. Loosen the bolts on the battery retention bracket. DO NOT REMOVE the battery retention racket from the cabinet as it will be quite difficult to reinstall once the SPM-900 is mounted in the cabinet.
8. Mount the SPM-900 on to the mounting bracket using the provided screws. The SPM-900 should be mounted such that the ethernet port is facing up when the plate with the holes is towards the back.
9. Plug the USB cable into the appropriate slot on the top of the SPM-900.
10. Connect the right angle end of the Type N cable from the antenna feed to the RF OUT of the SPM-900.
11. Connect the right angle end of the Type N cable from the duplexer to the RF IN of the SPM-900.

12. Carefully slide the SPM-900 into the cabinet to the right of the batteries, lifting slightly up and over the Type N cable, then drop it slightly back down.
13. Slide the unit back into place such that the bracket holes on the back mounting plate line up with the battery retention bracket on the back wall of the M400 cabinet.
14. Tighten the bolts on the battery retention bracket.



4 Configuration & power

Power up the M400B2

1. Turn all three AC breakers to the ON position.
2. Verify that the Anderson-style connector is connected.
3. Flip on the battery switch located by the batteries if not already on. Wait until the light on the Rectifier is green. The OK light on the Controller should illuminate green as well, but if any alarms are present one of the alarm lights will be lit instead.
4. Turn the transceiver on. To turn it on, you must first pull the switch slightly out and then flip it to ON.

Transceiver boot sequence

Once turned ON, the M400B2 transceiver should run the boot sequence.

- The external power LED will light green once the power switch is flipped.
- Immediately following, the Receiver status LED and PA voltage indicator will light GREEN.
- The CPC status LEDs will light RED, then change to GREEN once the CPC processors all boot.
- The RF card PPS lock LED will blink GREEN at 1/2 Hz; once the GPS locks the RF card LED will switch to a 1 Hz blink rate.
- Within a minute of power ON, the GPS LED will blink at 1 Hz.
- The CPU status LED will turn RED when Linux begins to load. Once the unit has booted completely and detected no errors, the LED will blink GREEN in a double-blink pattern.
- The RX LED will blink GREEN briefly when receiving an on-air message; the TX LED will light up RED through the duration of a transmission.
- Once the CPU has booted, the CPC status LEDs will turn RED then change back to GREEN indicating that they have received a new configuration from the CPU.

Connection

The USB port on the front of the transceiver is used as the diagnostic port. Connect a USB to USB cable from this diagnostic port to your PC.

Note: Please be aware that it may take a few seconds after power-on for the USB interface to enumerate.

Microsoft Windows™ will automatically download and install a suitable USB device driver from the internet. If you are connecting to a PC in a field setting where an internet connection is not available you must ensure that you have downloaded and installed the correct drivers to your PC before arrival.

Once the driver is installed, using a terminal emulation program such as TeraTerm or PuTTY, log in as described in *Log into the M400B2* on page 40. Connect to the COM

port where the unit is connected. Once connected you may see a login prompt or you may need to press enter to get the login prompt.

Unified configuration file

The M400B2 configuration files use the Unified code base.

Note: The information in this section is for Unified firmware. If you are running Legacy, please see *Legacy configuration file* on page 56

CAUTION: You should use extreme caution when editing the configuration file, as any typographical error will cause issues.

Use the tgbconfig utility to edit the configuration file. The tgbconfig utility is located in the "/opt/tgbprogs/sbin" directory. When run with no parameters, this utility will verify there are no syntax errors in your configuration file and will display the current configuration data. When updating one parameter, the full json path to the parameter and its new value must be provided.

To eliminate duplicate Base Station device errors on the network and the RNI, you must make sure certain fields in the configuration file are unique. These fields are listed below:

- base_station_id
- hostname
- network.eth0.ip

Set up JSON file

This describes the basic setup using the Unified JSON code.

The following walks you through the basic setup commands for the configuration file that need to be edited.

If your FlexNet network includes a Network Management System (NMS), configure the Base Station with only the minimum network settings that enable communication with the NMS. The minimal set of parameters is network and optionally vpn, firewall, and management. Additional configuration occurs via NMS operations. Refer to your company's internal processes to determine which parameters to configure upon initial Base Station installation.

These basic commands are provided as a reference; no changes should be made to the JSON files unless authorized to do so.

CAUTION: This assumes that you will use the tgbconfig utility and edit one line at a time. If you choose to view the entire file, you will see other options not mentioned below. These options should be left in their default state unless instructed otherwise!

- To make configuration edits, type

  ```
  tmadmin
  ```

  at the login prompt. You will be prompted for a password. If you do not know your password, contact your assigned Sensus PM.

- To display the entire configuration file, type

```
tgbconfig
```

  at the prompt.
- To display a specific value, type

```
tgbconfig
```

  and then the configuration item. Example:

```
tgbconfig network.eth0.enabled
```

- To add a key and value or edit a value, type

```
tgbconfig
```

  then the configuration item, then the value. Example:

```
tgbconfig network.eth0.enabled 1
```

- To delete a specific value, type

```
tgbconfig -r
```

  and then the configuration item.



CAUTION: Make sure that you really want to delete an item before using tgbconfig - r. If you delete an item by mistake you will have to go back through and re-enter everything you deleted.

1. Login as tmadmin and change the password if you are still using the default password.

```
passwd
```

2. Elevate your privileges to enable parameter changes.

```
sudo -i
```

3. Set the Base Station ID. This must be a unique number.

```
tgbconfig base_station_id xxxxxxxx
```

4. Set the host name. This must be a unique name.

```
tgbconfig hostname xxxxxxxx
```

5. Set the timezone. US/Eastern is the default. For all the possible options, go to *http://en.wikipedia.org/wiki/List_of_tz_database_time_zones*.

```
tgbconfig timezone xxxxxxxx
```

6. Configure the network by setting the following keys for this unit.

```
tgbconfig network.eth0.ip xxx.xxx.xxx.xx
tgbconfig network.eth0.netmask xxx.xxx.xxx.xxx
tgbconfig network.eth0.gateway xxx.xxx.xxx.xxx
```

7. Set the DNS nameserver.

```
tgbconfig network.nameserver xxx.xxx.xxx.xxx
```

8. If you are using a firewall:

   tgbconfig firewall_enabled x, where 0 is the default and disabled and 1 is enabled. If you activate a firewall, you also must configure a host or subnet that will be allowed to establish ssh connections to this unit:

```
tgbconfig network.management_console.ip xxx.xxx.xxx.xxx
```

```
tgbconfig network.management_console.netmask xxx.xxx.xxx.xxx
```

Leaving the netmask at the default of 255.255.255.255 will restrict the incoming ssh connections to originate from a single IP address. A netmask of 0.0.0.0 will allow ssh from any IP address.

9. Configure your ntp time servers. You have the option to enter one or two servers; the default is two (Sensus recommendation). You should set the ntp IP address to either the address of your internal time servers or an applicable time server for your geographic location.

```
tgbconfig ntp.servers.0 xxx.xxx.xxx.xxx
tgbconfig ntp.servers.1 xxx.xxx.xxx.xxx
```

10. Configure the Base Station to talk to the RNI.

Set the IP address of the NC:

```
tgbconfig rni.rnis.0.data_ip xxx.xxx.xxx.xxx
tgbconfig rni.rnis.0.command_ip xxx.xxx.xxx.xxx
```

Set the HTTP mode:

```
tgbconfig rni.rnis.0.http_mode x
```

where 0 is for North America.

Set the ports:

```
tgbconfig rni.rnis.0.data_port xxxx
tgbconfig rni.rnis.0.command_port xxxx
```

where 9600/9800 is for North America.

11. Configure the Receiver radio frequency and modulation.

The M400B2 has one CPC which in turn has two FPGA/DSP chains that can support up to twelve virtual receivers each. You will need to configure chains and virtual receivers as assigned by your frequency plan.

```
tgbconfig rfcards.cards.0.rx_frequency xxxxxxxx
tgbconfig receivers.cpcs.0.chains.0.fpga_freq x
tgbconfig receivers.cpcs.0.chains.0.demod fnv1
tgbconfig receivers.cpcs.0.chains.0.rcvs.0.dsp_freq x
tgbconfig receivers.cpcs.0.chains.0.rcvrs.0.modulation x
```

rx_frequency

This is the center RF frequency of the RFC ADC receive bandwidth that is fed into the CPCs. This is specified as an integer in Hz, for example 932186500.

fpga_freq

This indicates, in an integer value, the offset between the IF center (rx_frequency) and the center of the CPC chain frequency. The M400B2 FPGA is tunable over -100KHz to 100KHz using the values in the range of -8 to 8.

demod

The demod is used by the package update scripts to determine which type of DSP firmware image should be loaded for that chain. The setting can be either fnv1, fnv2, fnv2-uk, or fnv2-sec. The set of modulations desired for a given chain will determine which choice to make for this parameter. If a configured modulation is not supported by the DSP firmware, an error will be displayed in the third transmitter screen in tgbmenu. After changing the demod parameter, you will need to run the firmware update script to load the required DSP

firmware. This script is run automatically when upgrading to a new Base Station version.

```
/opt/tgbprogs/firmware/firmware-update.sh
```

dsp_freq

This is the designation within the CPC chain, in an integer value, that indicates the center frequency of the virtual receiver. The M400B2 DSP allows values from -11 to 11.

The current modulation types:

Modulation Types for the M400B2

Value	Modulation Type	Value	Modulation Type	Value	Modulation Type
0	Receiver Disabled	8	2-level SFSK (12.5 kbps 2GMSK BT=0.36)	16	mPass (5kbps filtered-2GFSK or 2GMSK)
1	Normal (full-baud 7FSK)	9	4-level SFSK (25 kbps 4GMSK BT=0.36)	17	mPass2 (10kbps filtered-2GFSK or 2GMSK)
2	Double Density (full-baud 13FSK ½ coded)	10	8SFSK	18	m4Pass (10kbps 4GMSK
3	13 FSK (¾ FEC)	11	16SFSK	19	m4Pass2 (20kbps 4GMSK)
4	C&I (half-baud 7FSK)	12	2-level half-baud SFSK (6.25 kbps 2GMSK BT=0.36)	20	mPass12k (12.5kbps filtered-2GFSK or 2GMSK)
5	Priority (half-baud 13FSK)	13	4-level half-baud SFSK(12.5 kbps 4GMSK BT=0.36)		
6	Boost	14	8-level half-baud SFSK(12.5 kbps 8GMSK BT=0.36)		Radio-SFSK4

Value	Modulation Type	Value	Modulation Type	Value	Modulation Type
7	13 FSK (Both)	15	16-level half-baud SFSK(12.5 kbps 16GMSK BT=0.36)	23	SFSK-Boost

To modify the second chain, change the JSON array index to 1:

```
tgbconfig receivers.cpcs.0.chains.1.demod FNv1
```

To modify the second virtual receiver on chain 1:

```
tgbconfig receivers.cpcs.0.chains.1.rcvs.1.dsp_freq x
```

To apply changes to the receiver chains made with tgbconfig, you need to restart the TGB Services but you do not need to run tgbconfig-apply.sh.

```
sudo tgbprogs restart
```

Confirm successful receiver configuration using tgbmenu's third transmitter screen. Verify that it displays the correct frequencies, modulations, and does not shown an Error status.

```
                    RF Transmitters/Receivers              Tue Feb 26 15:18:23 2019
Chain   Fpga   Dsp    Modulation    IN RS AV  Frequency    MsgCnt   Status   Type
0.0.0      8     -6   7FSK-Normal   10 10 99   941.250000        0   OK       CPC2
0.0.1      8     -6   13FSK-DD      10 10 99   941.250000        0   OK       CPC2
0.0.2      8     -1   7FSK HB        7  7 99   941.281250        0   OK       CPC2
0.0.3      8     -3   FSK-Priority   8  8 99   941.268750        0   OK       CPC2
0.0.4      8     -6   7FSK-Normal   10 10 99   941.250000        0   OK       CPC2
0.0.5      8     -6   13FSK-DD      10 10 99   941.250000        0   OK       CPC2
0.0.6      8      4   7FSK-Normal   10 10 99   941.312500        0   OK       CPC2
0.0.7      8      4   13FSK-DD      10 10 99   941.312500        0   OK       CPC2
0.0.8      8      4   7FSK-Normal   10 10 99   941.312500        0   OK       CPC2
0.0.9      8      4   13FSK-DD      10 10 99   941.312500        0   OK       CPC2
0.0.10     8      4   7FSK-Normal   10 10 99   941.312500        0   OK       CPC2
0.0.11     8      4   13FSK-DD      10 10 99   941.312500        0   OK       CPC2
0.1.0      0      0   2SFSK         11 11 100  941.237500        0   OK       CPC2
0.1.1      0      0   2SFSK         11 11 100  941.237500        0   OK       CPC2


Inoise 000  001  002  003  004  005  006  007  008  009  00A  00B  010  011
       10   10   07   08   10   10   10   10   10   10   10   11   11   11
  1) RF Card, 2) Transmit Channels, 3) Receivers
  Currently displaying page #1 in window.
  Use '+' or '=' to scroll down and '-' or '_'to scroll up. Press 'r' to refresh
. Press any key to return to main menu.
```

12. Configure the transmit channels. The channel number is just the name of that block while the frequency id is the identifying name of that frequency. For example, you could have three channels where the names are channel0, channel1, and channel 2 but the frequency id numbers are 0, 2, and 3. The channel frequency is specified by base and offset.

```
tgbconfig transmit_channels.channels.0.frequency_id x
tgbconfig transmit_channels.channels.0.base xx
tgbconfig transmit_channels.channels.0.offset xxx
```

13. Configure your transmit options. The default transmit_mode is 3.

```
tgbconfig transmit_options.transmit_mode x
```

Transmit mode sets the operating mode for transmitting on the network. The options are 0 for dithered, 1 for basic synchronized, 2 for strict synchronized, or 3 for multi-channel synchronized (default). If you select dithered you will need to set the dither parameters as well.

14. The Base Station has OpenVPN included in the operating system. You can attach the Base Station to an OpenVPN server as if it were in the customer network.

If you are using VPN, for each client:

```
tgbconfig network.vpn.clients.0.enabled x
```

where 0 is the default and disabled and 1 is enabled.

Enter the number of clients.

```
tgbconfig network.vpn.client_count x
```

If you enable VPN, you also must configure the following items for each client:

```
tgbconfig network.vpn.clients.0.name xxxxxxx
tgbconfig network.vpn.clients.0.host xxx.xxx.xxx.xxx
tgbconfig network.vpn.clients.0.port xxxx
tgbconfig network.vpn.clients.0.ca "location of ca file"
tgbconfig network.vpn.clients.0.cert "location of cert file"
tgbconfig network.vpn.clients.0.key "location of key file"
tgbconfig network.vpn.clients.0.cipher "name of encryption cipher"
```

The key and cert files must be uploaded to the Base Station folder /opt/tgbprogs/openvpn/. Please refer to the Base Station Security Guide for further instruction if needed.

15. Configure the time broadcasts. You will need to set the timezone offset for your region. Leave the max_clock_drift at the default value of 0.450. The following is an example:

```
tgbconfig time_broadcasts.timezone_offset 0
tgbconfig time_broadcasts.max_clock_drift 0.450
```

(in seconds)

For each time broadcast operation, configure the transmit interval in seconds, the modulation bitrate, and the transmit channel (frequency_id) that it will be sent on.

```
tgbconfig time_broadcasts.broadcasts.0.interval 900
tgbconfig time_broadcasts.broadcasts.0.bitrate 1
tgbconfig time_broadcasts.broadcasts.0.channel 0
```

The modulation modes in bitrate value:

Value	Modulation Mode
0	5 kbps mPass
1	10 kbps mPass2
2	Both 0 & 1 bitrates will go out in two broadcasts
3	10 kbps 4GFSK m4Pass
4	20 kbps 4GFSK m4pass2

16. If you have a SPM installed and want to monitor, enable the power monitor:

```
tgbconfig power_monitor.enabled 1
```

In addition, to view the monitoring you will want to turn on alarm logging.

17. To apply the configuration changes type:

```
sudo -i tgbconfig-apply.sh
```

18. If the demod parameter was set or changed, run the following command to update the DSP firmware:

```
/opt/tgbprogs/firmware/firmware-update.sh
```

19. Restart any affected services or reboot the unit.

Power Down the M400B2

You must halt the transceiver operations before powering down.



CAUTION: Failure to halt the transceiver before power down may result in corruption or data loss.

1. Connect a USB cable from a PC to the diagnostic port on the transceiver and login to the transceiver.
2. Type

```
mount -o remount,ro
e2fsck /dev/mmcblk0p3
mount -o remount,rw
halt
```

and press Enter to stop all transceiver operations. Wait until the system notifies you that it is safe to proceed before initiating any power down steps.

The controller should be shut down any time the power system is to be powered off completely. Not doing so can result in lost log entries or other problems.

1. Login to the power system and select Controller > Reset.
2. When prompted by the power system, click OK. The controller will prepare for shutdown; wait until the controller states "it is now safe to reset the controller" and the Reset button appears. Once these appear, the controller is in a safe state for shutdown and may have the power disconnected. Power off must be performed within 1 minute. Do not power off until the controller states that it is safe to do so as the controller is defragmenting its files and disk corruption could occur.
3. Do not select **Reset**, as the controller will reset instead of remaining shut down.



Note: 2.x software versions will remain in a safe state for only 1 minute before automatically restarting. Power MUST be disconnected before the controller attempts to reboot. If you miss the 1 minute window when using a 2.x software version, perform the reset procedure again. Powering off a controller during boot up can result in disk corruption.

1. Turn all three AC breakers to the OFF position.
2. Flip the power switch on the transceiver to OFF. To turn it off, you must first pull the switch slightly out and then flip it to OFF.
3. Flip the battery switch located to the side of the batteries to OFF.

Leaving the site

Once the Base Station has been installed and configured a final inspection should be performed.

Before you leave the site, ensure the following:

- Make sure all RF cables are tight and torqued to proper specifications.

- Verify that the Base Station is properly grounded.

  Note: If you do not have a SMA torque wrench, the specification is 8 inch-pounds so a light torquing is needed.

- Insure all data cables are secure.
- Make sure all Base Station breakers are in the ON position.
- Check the lights and switches on the Base Station battery charger.
  - Make sure none of the charger lights turn red when the Base Station transmits (if possible).
  - Make sure the charger switch is set to the "charge" position (Victron Chargers only).
  - Make sure the charger LED marked "float" is illuminated (Victron Chargers only).
- Check all lights on the front panel of the Base Station transceiver.
  - All lights must be green.
  - If the Transceiver is transmitting, make sure the TX lights are green.
  - Make sure the power supply lights are green.
- Close the door on the Base Station enclosure and lock it with the key.

Site verification

Once installed and configured, a final verification of the Base Station site's operational status should be performed.

It is vital that you make sure the Base Station Site Certification form is completed for each Base Station and system installation. Only when this checklist is completed can you certify the Base Station and document that the FlexNet system has been completely verified and tested.

5 Base Station monitoring and maintenance

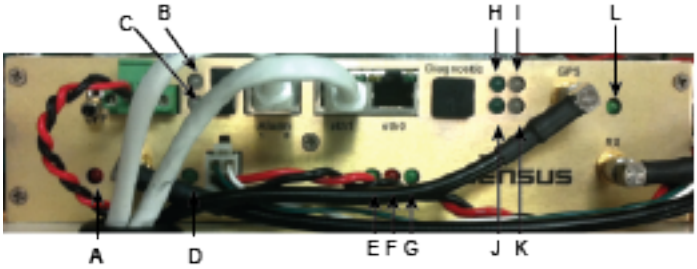
The following information is designed to assist with monitoring and maintenance of the M400B2.

M400B2 transceiver LEDs

The M400B2 transceiver incorporates LEDs to provide a visual indication of device health.

LED indicators include:

- **External Power**: Indicates that the unit currently has power.
- **CPU Status**: Indicates the CPU status.
- **CPC1/CPC2 Signal Chain Status**: Indicates the signal chain status.
- **CPC1/CPC2 Signal Chain RX**: Indicates when a message is received on the signal chain.
- **GPS PPS**: Blinks at a 1Hz rate synchronized to the GPS time.
- **RF Card PPS lock**: Indicates if the RF card is synchronized to GPS time.
- **Receiver Status**: Indicates if the Receive section is locked.
- **Receiver Overload**: Indicates if the Receive section is overloaded.
- **TX Status**: Lights during an RF transmission.
- **PA Voltage indicator**: Indicates if an external PA VCC is present.



M400B2 alarms

M400B2 alarms are accessible from the alarm port, are inputs, and are activated by shorting to ground.

The M400B2 sends both RNI alarms and SNMP traps. In the operating system, the alarm bits are indicated as Bits 1 through 8. For more information please refer to the Base Station Alarm Quick Guide.

Bit No.	Alarm Port Pin	Type	Description
1	Alarm1	Intrusion Alarm	Cabinet Door Open
2	Alarm2	Over Temperature Thermostat	The temperature in the cabinet is over the threshold.

Bit No.	Alarm Port Pin	Type	Description
3	Alarm3	Under Temperature Thermostat	The temperature in the cabinet is under the threshold.
4	Alarm4	Rectifier Major	Power System Fail or Battery Test
5	Alarm5	AC Power Fail	Indicates when the AC power has failed. Can indicate high-voltage situations as well.
6	Alarm6	Rectifier Minor	Power System Fault
7	Alarm7	Low Battery Alarm	Battery needs to be charged or changed.

Scheduled Base Station maintenance

Sensus recommends scheduling an initial checkup six months after installation, and after that, inspection at six month intervals.

Following the initial visit, the M400B2 should be checked, at minimum, as outlined above. However, the following factors may alter the length of time between service visits:

1. The maintenance required on the initial visit.
2. The environmental conditions.
3. Existing customer policies for equipment maintenance.

Maintenance checklist for Base Stations

Follow this checklist when inspecting Base Stations as part of the maintenance routine.

1. To ensure compliance with regulatory requirements, verify that copies of all required documentation are located at the M400B2 site. Printed copies should be stored in a water-tight bag; electronic copies may be stored at the site on a USB-style flash drive.
2. Tighten any loose bolts and screws.
3. Confirm that cabling and any electrical earthing cables are securely attached.
4. Check for any signs of water intrusion.
5. Check the integrity of the GPS antenna seal, if equipped.
6. Check the integrity of the cell antenna, if installed.
7. Visually inspect the antenna with binoculars to ensure secure mounting and the presence of other antennas added since installation.
8. Ensure the latest firmware is installed and that warning lights are not illuminated.
9. Check the battery pack for corrosion on the terminals or other anomalous conditions including leaking acid or loose battery bolts. Schedule replacement of any battery exhibiting signs of acid leakage.
10. Schedule the next service visit based on the observations and anticipated conditions.

Appendix A: Log into the M400B2

The M400B2 requires a terminal emulation program for login.

If you do not have a Virtual COM port (VCP) driver on your PC, download one now. (Available at *http://www.ftdichip.com/Drivers/VCP.htm*).

1. Connect a USB cable to the Diagnostic Port on the front of the transceiver.
2. Connect the other end of the cable to your PC.
   If asked for a driver, point to the previously installed VCP driver.

Connect the M400B2 to your laptop

If you do not have a Virtual COM port (VCP) driver on your PC, download one now. (Available at *http://www.ftdichip.com/Drivers/VCP.htm*).

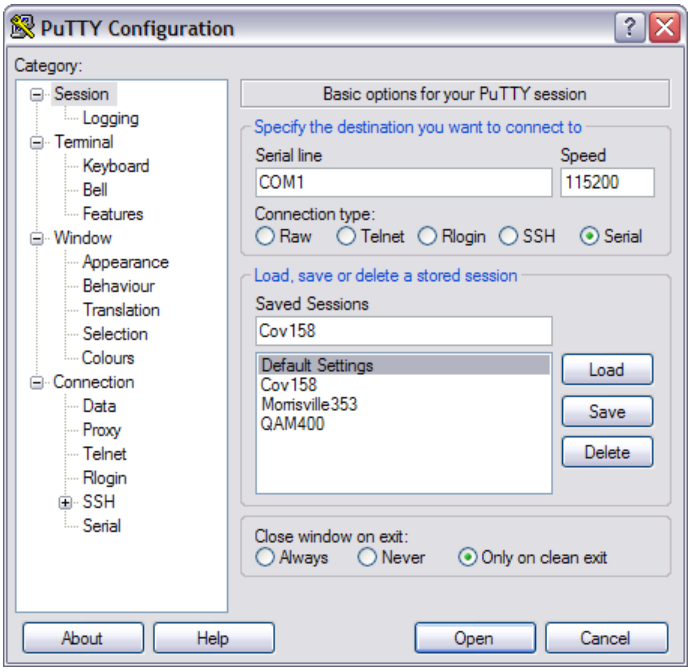
1. Connect a USB-B cable to the Diagnostic Port on the front of the transceiver.
2. Connect the other end of the cable to your PC.
   If asked for a driver, point to the previously installed VCP driver.

Use PuTTY to establish a connection

Sensus suggests using PuTTY or Tera Term Pro as the terminal emulation program. Follow these steps to use PuTTY.

1. Using a PC, download the PuTTY program via the following internet link, if not already installed on your machine: *http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html*.
2. Download the latest version exe file for your Windows operating system to a convenient directory on the PC.
3. Double-click the putty.exe icon in the directory you installed it in (you may want to make a desktop shortcut to the program at this time.

4. The PuTTY Configuration screen is displayed.



5. Select the Serial radio button as the Connection Type.
6. In the Serial Line field, enter the COM port you are using. In the Speed field, type 115200.
7. Turn on the unit (if off) and allow it to boot up.
8. Click the Open button in the PuTTY window.
9. At the login prompt, type tmadmin. If you are using a version prior to Unified, you will need to type root at the login prompt.
   - The name in front of the login prompt will vary depending on how your particular unit has been set up.
10. Type the password when the unit returns the password prompt, then press the Enter key. The password does not echo on the screen. You are now at the Linux command prompt and ready to perform programming tasks.

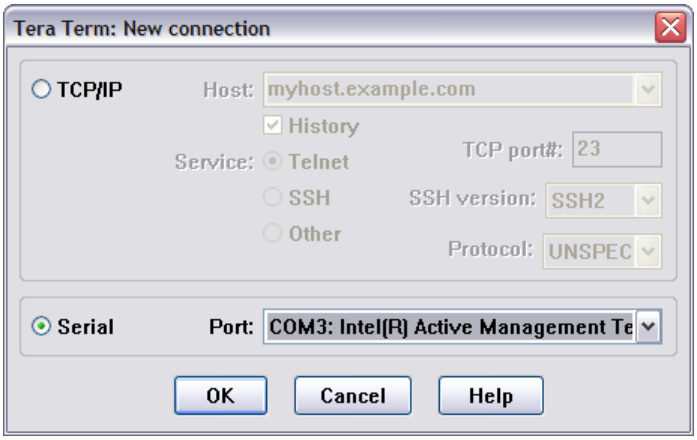
Note: If this is the first time you have logged in, you may be prompted to change the password; if so, enter passwd to change the password.

Use Tera Term to establish a connection

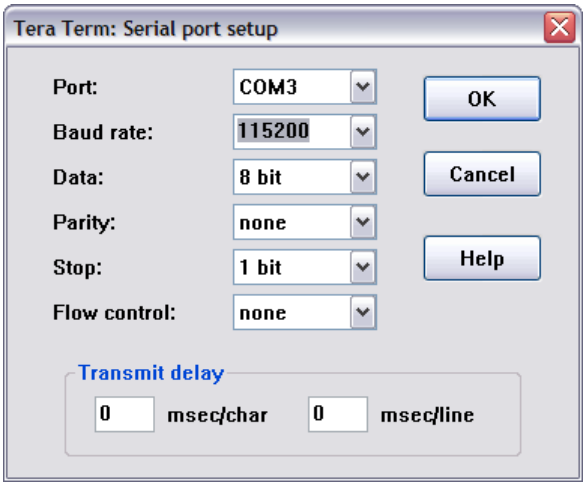
Sensus suggests using PuTTY or Tera Term Pro as the terminal emulation program. Follow these steps to use Tera Term Pro.

1. Download the Tera Term Pro program to your PC if it is not already installed on your machine. The program is available free from a number of internet sites.
2. Double-click the Tera Term Pro icon in the directory you installed it in (you may want to make a desktop shortcut to the program at this time).

3. The New connection screen is displayed.



4. Select the Serial radio button as the Connection type.
5. In the Port field, select the COM port you are using.
6. Click the OK button. The VT screen is displayed.
7. From the Setup menu, select the Serial Port command. The Serial port setup window is displayed.



8. In the Baud rate field, select 115200.
9. Verify the following settings and change if necessary:
   - Data: 8 bit
   - Parity: none
   - Stop: 1 bit
   - Flow control: none
10. Click the OK button.
11. Turn on the unit (if off) and allow it to boot up.
12. At the login prompt, type tmadmin. If you are using a version prior to Unified, you will need to type root at the login prompt.
    - The name in front of the login prompt will vary depending on how your particular unit has been set up.

13. Type the password when the unit returns the password prompt, then press the Enter key. The password does not echo on the screen. You are now at the Linux command prompt and ready to perform programming tasks.

Note: If this is the first time you have logged in, you may be prompted to change the password; if so, enter passwd to change the password.

Appendix B: Using tgbmenu

The program tgbmenu is a software routine which runs on the LINUX processor residing inside the M400B2.

You can connect directly to the unit through the front panel diagnostic port or access tgbmenu remotely through a Sensus server or the internet. For details on how to log in remotely contact the IT project manager assigned to your installation.

Commands described are current as of this writing. If future versions are generated newer commands may be available which are not discussed herein.

Run tgbmenu

Accessing tgbmenu requires certain hardware and a password.

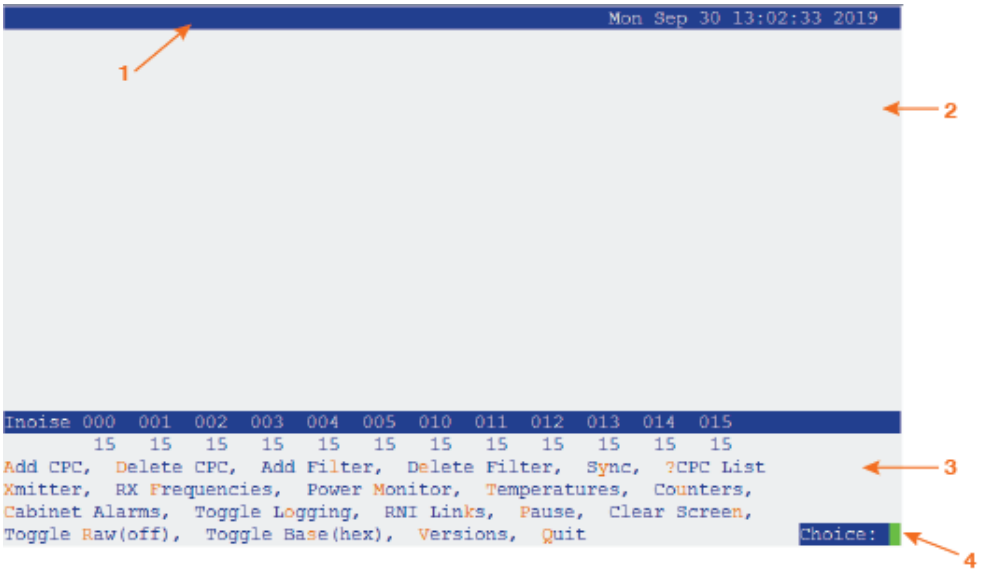
You will need the following materials:

- A PC with at least one USB port.
- A terminal emulation software such as PuTTY or Tera Term. Other TTY programs are acceptable; for instructions on PuTTY see *Use PuTTY to establish a connection* on page 40 and for Tera Term see *Use Tera Term to establish a connection* on page 41.
- USB cable.

1. Log in to the M400B2 operating system by typing `tmadmin` at the login prompt.
2. Type the password when the unit returns the password prompt, then press the Enter key.
3. At the prompt, type `tgbmenu` and press the Enter key.

tgbmenu display

The tgbmenu display lists the possible commands at the bottom of the screen. Use the highlighted letter to invoke the command. Data for each command displays in the main pane.



Key:
1: Header - Displays the name of the command screen
2: Data Area
3: Command Description and Data Entry Area - Shows the available commands at any given time. In data entry mode, various prompts and data are displayed in this area.
4: Command Prompt - Echoes any command entered

tgbmenu commands

The highlighted character in each command is the key entered at the Choice prompt to invoke that command.

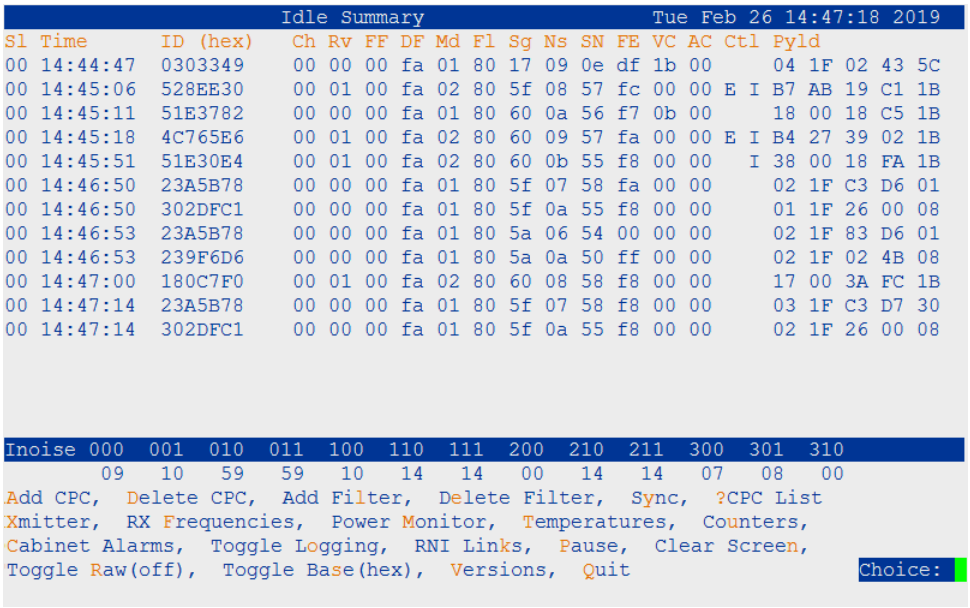
Depending on your TTY program the highlighting will be different, or may appear as bold.

Add CPC and delete CPC

Base Station transceivers can have multiple CPC cards; these commands are used when one or more CPC card is present.

Add CPC slot is invoked by pressing the **A** key; **D**elete CPC slot is evoked by pressing the **D** key. The M400B2 has only one CPC card so this entry will always be "0".

The CPC slot selection controls what sources of idle data display in the Idle Summary screen.



Add Filter and Delete Filter

The Add Filter and Delete Filter commands enable you to enter FlexNet endpoint IDs so that only those endpoints are displayed.

The command will accept hex or decimal IDs, depending on the state of the Toggle Base (status) command. (See *Toggle Base (status)* on page 53.) These commands are useful when you are trying to receive the messages from one or a few distinct endpoints and you do not want to see all the other endpoint traffic that the unit is receiving.

Note that if ANY endpoint ID filter is added, the tgbmenu screen will stop displaying all other endpoint data except for those endpoints selected by the Add Filter command. You must delete all added filter ID numbers using Delete Filter before tgbmenu will start to display all of the received endpoint IDs again.

To **ADD** a FlexNet endpoint ID filter:

1. Press the **I** key.
2. Enter the endpoint ID number you wish to display data for, filtering out all the other endpoint data received. Press the Enter key to enter the endpoint ID into tgbmenu.

The tgbmenu screen will now only display messages from the endpoint ID you entered.

To **DELETE** a FlexNet endpoint ID filter:

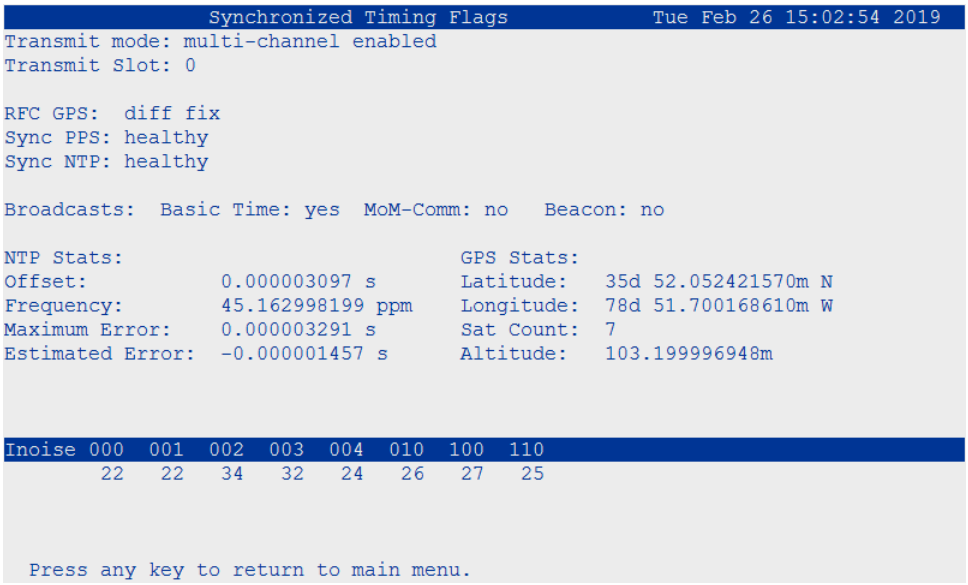
1. Press the **e** key.
2. Enter the endpoint ID to stop filtering and press the Enter key.

The other endpoint data should now display. If the tgbmenu screen does not update with the other endpoints, make sure you do not have another endpoint ID set to be filtered with tgbmenu.

Sync

The Sync command displays the current synchronization mode.

The Sync command is invoked by pressing the **y** key.



Press any key to exit the Sync command.

CPC List

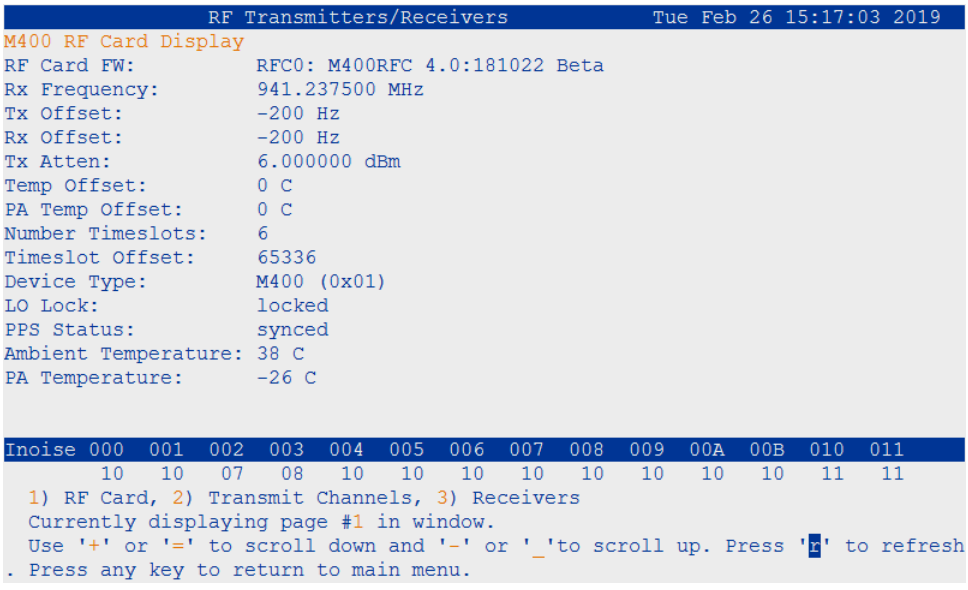
The CPC List command displays the defined slots.

If you have added CPC slots, the CPC List command displays the status of those slots and any associated messages.

Xmitter

The Xmitter command displays the RF Card, Transmit Channels, and Receive Channels.

The Xmitter command is invoked by pressing the **X** key. If you press the 1, 2, or 3 key you will cycle through the different configuration screens.



```
                RF Transmitters/Receivers            Tue Feb 26 15:17:34 2019
  ID   Frequency   MsgCnt
  00   940.237500       1
  01   disabled
  02   disabled
  03   disabled
  04   disabled
  05   disabled
  06   disabled
  07   disabled
  08   disabled
  09   disabled
  10   disabled
  11   disabled
  12   disabled
  13   disabled
  14   disabled
  15   disabled
Inoise 000  001  002  003  004  005  006  007  008  009  00A  00B  010  011
        10   10   07   08   10   10   10   10   10   10   10   10   11   11
  1) RF Card, 2) Transmit Channels, 3) Receivers
  Currently displaying page #1 in window.
  Use '+' or '=' to scroll down and '-' or '_'to scroll up. Press 'r' to refresh
. Press any key to return to main menu.
```

```
                RF Transmitters/Receivers            Tue Feb 26 15:18:23 2019
Chain  Fpga  Dsp   Modulation   IN RS AV  Frequency   MsgCnt  Status  Type
0.0.0    8   -6   7FSK-Normal  10 10 99  941.250000       0  OK      CPC2
0.0.1    8   -6   13FSK-DD     10 10 99  941.250000       0  OK      CPC2
0.0.2    8   -1   7FSK HB       7  7 99  941.281250       0  OK      CPC2
0.0.3    8   -3   FSK-Priority  8  8 99  941.268750       0  OK      CPC2
0.0.4    8   -6   7FSK-Normal  10 10 99  941.250000       0  OK      CPC2
0.0.5    8   -6   13FSK-DD     10 10 99  941.250000       0  OK      CPC2
0.0.6    8    4   7FSK-Normal  10 10 99  941.312500       0  OK      CPC2
0.0.7    8    4   13FSK-DD     10 10 99  941.312500       0  OK      CPC2
0.0.8    8    4   7FSK-Normal  10 10 99  941.312500       0  OK      CPC2
0.0.9    8    4   13FSK-DD     10 10 99  941.312500       0  OK      CPC2
0.0.10   8    4   7FSK-Normal  10 10 99  941.312500       0  OK      CPC2
0.0.11   8    4   13FSK-DD     10 10 99  941.312500       0  OK      CPC2
0.1.0    0    0   2SFSK        11 11 100 941.237500       0  OK      CPC2
0.1.1    0    0   2SFSK        11 11 100 941.237500       0  OK      CPC2


Inoise 000  001  002  003  004  005  006  007  008  009  00A  00B  010  011
        10   10   07   08   10   10   10   10   10   10   10   10   11   11
  1) RF Card, 2) Transmit Channels, 3) Receivers
  Currently displaying page #1 in window.
  Use '+' or '=' to scroll down and '-' or '_'to scroll up. Press 'r' to refresh
. Press any key to return to main menu.
```

Press any key besides 1, 2, or 3 to exit the Xmitter command.

Frequencies

This command is used for other versions of the Base Station and is not applicable to the M400B2.

The CPC slot has multiple frequencies and receivers, so this command is mapped to page three of the Xmitter command.

Power Monitor

Displays the power management details.

The Power Monitor command is invoked by pressing the **M** key. The Power Monitor displays the VSWR alarm status, Forward Power, Reflected Power, and VSWR ratio. This data only displays if you have an active power monitor attached to the Base Station.

```
                  Power Monitor: SPM-900              Tue Feb 26 15:27:53 2019

Firmware Version: 2.2
Status:           [0] normal
Forward Power:    29.600 dBm (0.912 Watts)
Reflected Power:  18.660 dBm (0.073 Watts)
VSWR:             1.792

Inoise 000  001  002  003  004  005  006  007  008  009  00A  00B  010  011
        10   10   07   08   10   10   10   10   10   10   10   10   11   11


  Press any key to return to main menu.
```

Temperatures

The Temperatures command displays the unit temperature in Celsius.

The Temperatures command is invoked by pressing the **T** key. The Temperatures display shows the ambient and PA temperatures of the RF cards in degrees C.

```
                Current Temperatures (C)            Tue Feb 26 15:20:26 2019

  RFC          0
               ---
  Ambient:     38
  PA:         -26

Inoise 000  001  002  003  004  005  006  007  008  009  00A  00B  010  011
        10   10   07   08   10   10   10   10   10   10   10   10   11   11


  Press any key to return to main menu.
```

Counters

The Counters command displays the status of several unit processes, messages, and communications.

The Counters command is invoked by pressing the **u** key.

```
                    Current Counters                Tue Feb 26 15:26:00 2019
Last Reset:       Feb 26 15:25:20
Unique Ackables:  0                     CMD Success:              0
Duped Ackables:   0                     CMD Success (bit force):  0
Commands In:      0                     CMD Success (1 ACK):      0
Commands Out:     0                     CMD TX Naked:             0
Piped messages:   0                     CMD Bad Channel:          0
Reports queued:   6                     CMD Bad Modulation:       0
Reports sent:     6                     CMD No TX NAK:            0
                  Msgs    Idle          CMD TX Not Responding:    0
    CPC Slot 0:   0       0             CMD TX Bad Response:      0
                                        ACK Success:              0
                                        ACK Success (1 ACK):      0
                                        ACK TX Not Repsonding:    0
                                        ACK Quantum Expired:      0
                                        ACK Age Expired:          0
                                        Unknown TX Error:         0

Inoise 000  001  002  003  004  005  006  007  008  009  00A  00B  010  011
        10   10   07   08   10   10   10   10   10   10   10   10   11   11


  Press any key to return to main menu.
```

Press any key to exit the Counters command.

Cabinet Alarms

The Cabinet Alarms command enables you to display various M400B2 status and alarm indications.

The display for the alarms will differ depending on the individual unit installation and type.

```
                    Cabinet Alarms                  Fri Oct  4 12:36:56 2019

    ENCLOSURE: M400B
  PIN POSITION: 12345678
    RAW STATUS: 00000000

  Pin   Alarm                     Status
  ---   ------------------------  ------
   1    Cabinet door:             OPEN
  2,3   Cabinet temperature:      NORMAL
  4,6   Rectifier system status:  NORMAL
   5    AC line power:            ON
   7    Battery charge status:    NORMAL

Inoise 000  001  002  003  004  005  010  011  012  013  014  015
        15   15   15   15   15   15   15   15   15   15   15   15


  Press any key to return to main menu.
```

Please contact the IT Project Manager if you need further information on cabinet alarms or if any of the displayed values in tgbmenu denote a FAILED condition.

Toggle Logging

The Toggle Logging command enables various transceiver data to be logged to internal disk space on the transceiver LINUX processor.

Logging is invoked by first pressing the **o** key. The logging screen has two pages unless you are running Legacy, in which case there is only one page. Press the **1** key for the first page or the **2** key for the second page.

CAUTION: Enabling logging for an extended period of time, such as a month, will shorten the life of the internal data storage.

If running Legacy:

```
Sl Time      ID (hex)    Ch Rv FF DF Md Fl Sg Ns SN FE VC AC Ct Pyld
TGB Logging Configuration
ID  Type                Filename       Status
a.  Transmitter Data    tgbtx.log      Enabled
b.  Receiver Data       tgbrx.log      Enabled
c.  Pipe to NC Data     pipe2nc.log    Disabled
d.  Message Counter     mcounter.log   Disabled
e.  Ack Queueing        ackqueue.log   Enabled
f.  Ack Transmitting    acks.log       Enabled
g.  RNI Commands In     cmdin.log      Disabled
h.  Commands Out (RF)   cmdout.log     Disabled
i.  Set Time Broadcasts settime.log    Enabled
j.  Sniffer Data        sniffer.log    Disabled
k.  Report Data         report.log     Disabled
l.  Priority Queue Data queue.log      Disabled
m.  Alarm Data          alarm.log      Disabled

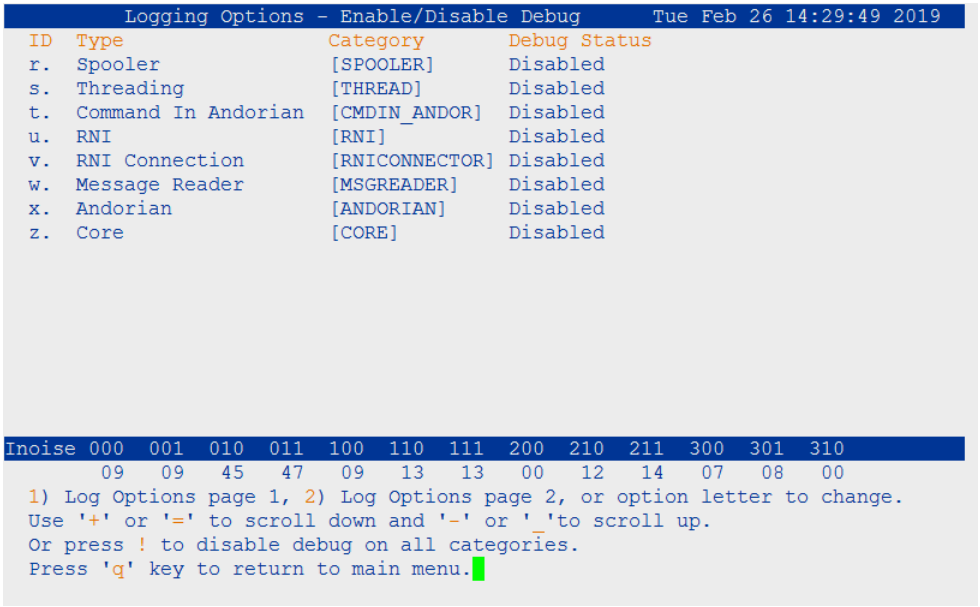

Inoise  S10  S11  S12  S13  S14  S15  S16  S17  S18  S19              AGC
                                                                     00

Type the id of any logging type to toggle it, or
press any other key to return to normal display.
```

If running Unified:

```
          Logging Options - Enable/Disable Debug      Tue Feb 26 14:29:10 2019
  ID  Type                  Category       Debug Status
  a.  Transmitter Data      [TGBTX]        Enabled
  b.  Receiver Data         [TGBRX]        Enabled
  c.  Pipe to NC Data       [PIPENC]       Disabled
  d.  Message Counters      [MSGCNT]       Disabled
  e.  Tower Ack Processing  [TOWERACK]     Disabled
  f.  Poll Response Beacon  [BEACON]       Disabled
  g.  RNI Commands In       [CMDIN]        Disabled
  h.  Commands Out (RF)     [CMDOUT]       Disabled
  i.  Set Time Broadcasts   [SETTIME]      Disabled
  k.  Report Data           [REPORT]       Disabled
  l.  Priority Queue Data   [QUEUE]        Disabled
  m.  Alarm Data            [ALARM]        Disabled
  n.  Message Queue         [MSGQ]         Disabled
  o.  Network               [NET]          Disabled
  p.  Serial                [SER]          Disabled

Inoise 000  001  010  011  100  110  111  200  210  211  300  301  310
         09   09   45   47   09   13   13   00   12   14   07   08   00
  1) Log Options page 1, 2) Log Options page 2, or option letter to change.
  Use '+' or '=' to scroll down and '-' or '_'to scroll up.
  Or press ! to disable debug on all categories.
  Press 'q' key to return to main menu.
```

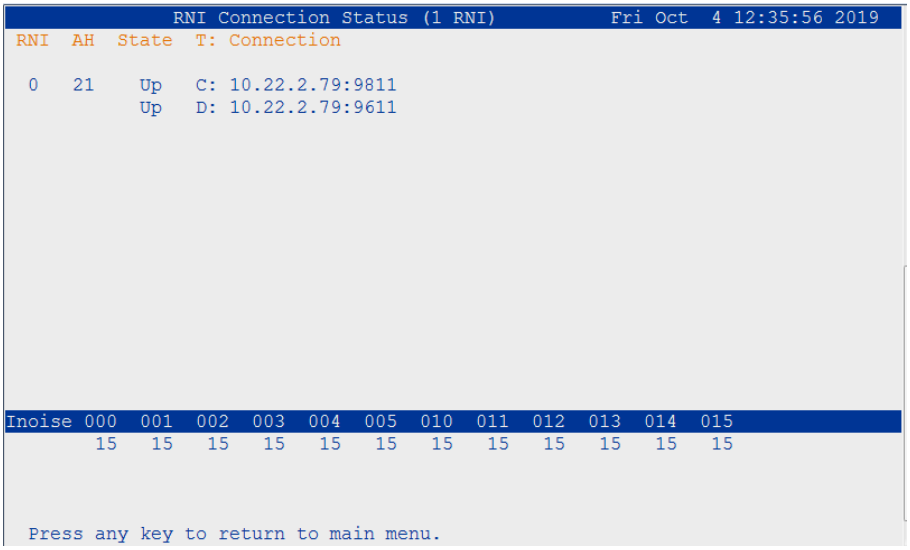


This command writes files to the internal unit hard drive so caution should be taken to prevent the drive from becoming full due to logging.

RNI links

The RNI links command displays the status of the RNI connection for all configured RNIs.

The RNI links command is invoked by pressing the **k** key.



Pause

The Pause command enables suspension of the tgbmenu display data update.

This command is useful when you need to log data by hand or you are trying to look at individual endpoint data before it scrolls off the screen. Evoking the **P** key will suspend the update of the tgbmenu screen data. Evoking **P** again will enable the screen to update as normal.

While the screen update is paused, the Pause command label in the command area will change to UnPause showing that the screen update has been paused.

Clear Screen

The Clear Screen command enables you clear the data portion of the tgbmenu screen.

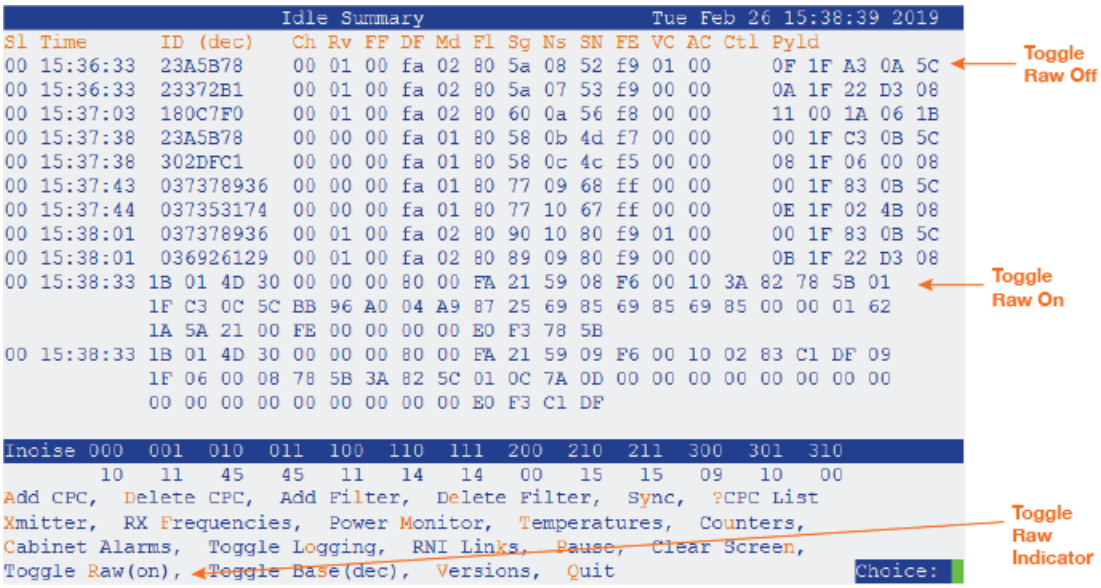
To clear the screen of data, enter the **n** key.

Toggle Raw (state)

The Toggle Raw command toggles the way the data is displayed.

Toggle **R**aw is invoked by pressing the **R** key. The state of the Toggle Raw command is shown in parenthesis after the command. If Toggle Raw is activated, the display will read Toggle Raw (on). If Toggle Raw is deactivated, the display will read Toggle Raw (off).

If Toggle Raw is activated, the endpoint data displayed will change. The screen seen here shows an example of the data area when Toggle Raw is activated (top of the data area) and deactivated (bottom of the data area).



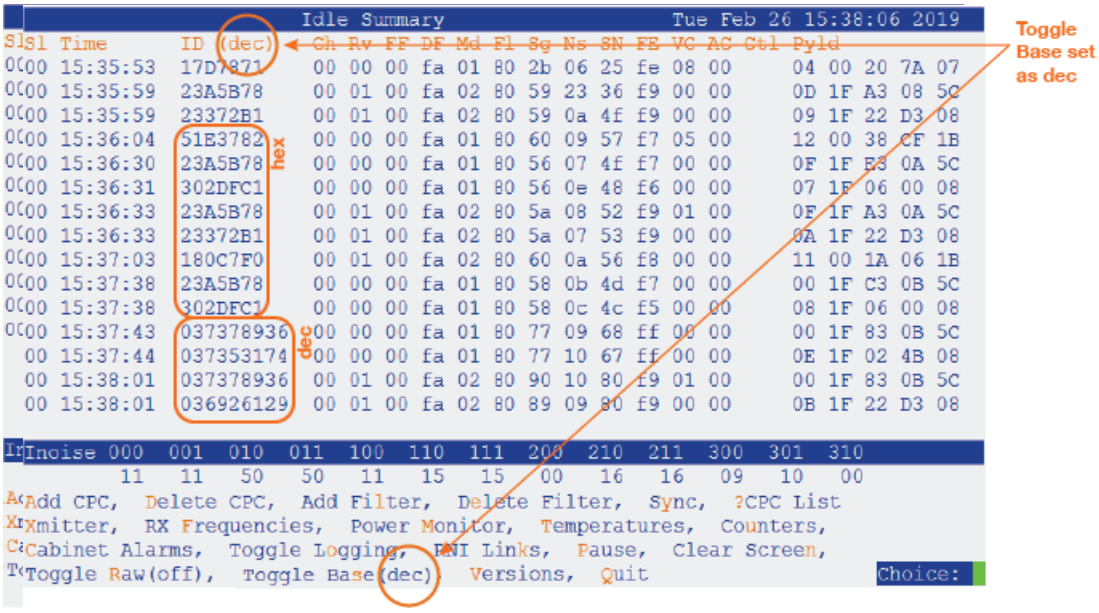
Raw data is convenient to display for code debugging and other development tasks.

Note: It is suggested that the Toggle Raw command be set to the off state for all routine transceiver field tasks.

Toggle Base (status)

The Toggle Base command enables you to toggle the endpoint ID display and FlexNet ID entry between Hexadecimal and Decimal (Hexadecimal is the default).

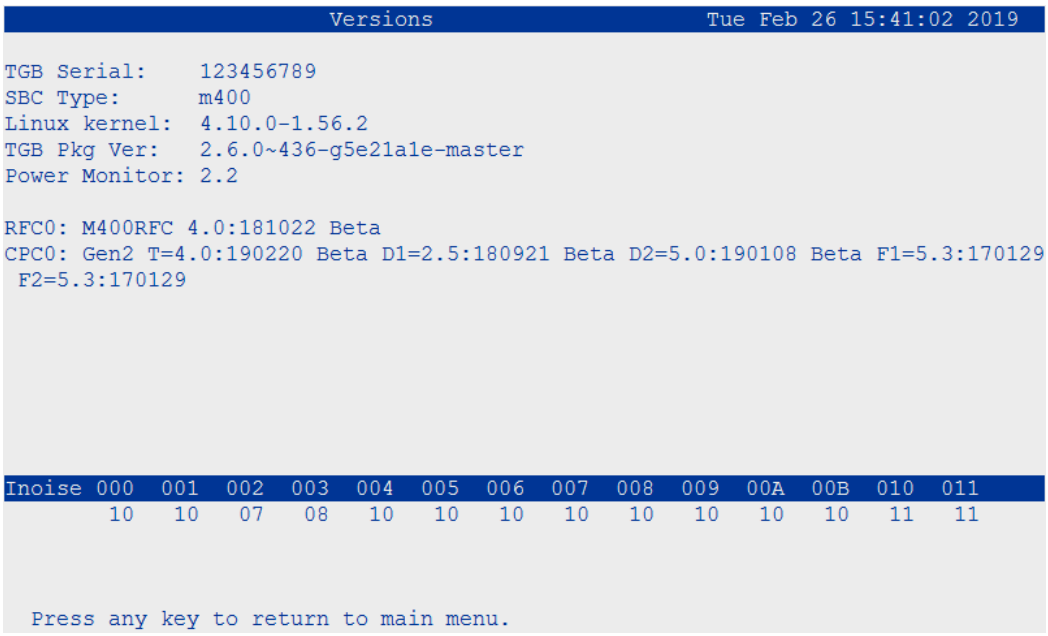
Press the **s** key to toggle between Hex and Decimal display mode.



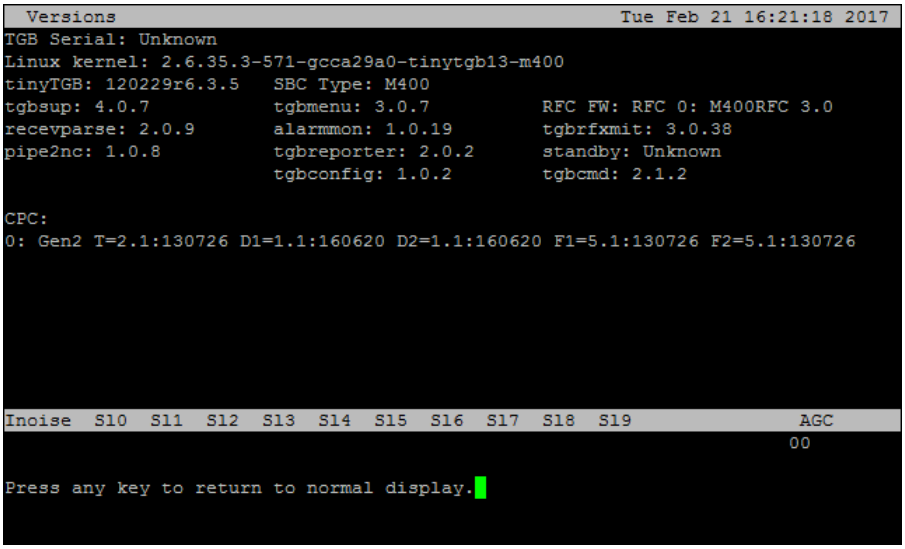
Versions

The versions command enables you to identify the software version status of the various programs that reside on the transceiver. It also shows the CPC firmware versions.

To invoke the Versions display, press the **V** key and then the **Enter** key.



M400B2 running Unified



M400B2 running Legacy

The IT Project Manager who is supervising the installation will be able to assist you on what the current software versions should be for all the software listed in the display.

Quit

The Quit command terminates the tgbmenu program and returns the user to the LINUX prompt.

The Quit command is invoked by pressing the **Q** key. If you are finished using tgbmenu, you should use the logout command at the LINUX prompt before you disconnect the cable from the unit.

Appendix C: Legacy configuration file

The information in this section is for Legacy firmware. If you are running Unified, please see *Unified configuration*.

Note: Important: There is only one configuration file: /opt/tgbprogs/etc/main.json. All field programmable values are configured in this file.

There are two ways to configure the json file. (1) Use the tgbconfig utility to edit the configuration file when you need to change one field in the configuration or to verify the entire file. This is the preferred method. (2) Use the vi command to make multiple changes to the configuration file.

CAUTION: You should use extreme caution when editing the configuration file, as any typographical error will cause issues. Sensus recommends creating a backup copy of the json file before editing.

The tgbconfig utility is located in the "/opt/tgbprogs/sbin" directory (although it is also in the bash shell path). When run with no parameters, this utility will verify there are no syntax errors in your configuration file and will display the current configuration data. When updating one parameter, the full json path to the parameter and its new value must be provided.

To eliminate duplicate device errors on the network and the RNI, you must make sure certain fields in this configuration file are unique. These fields are listed below:

- base_station_id
- hostname
- network.eth0.ip

Basic setup

The following walks you through the basic setup commands for the configuration file that need to be edited. In order to make the necessary configuration edits, you will need to access a root shell.

These basic commands are provided as a reference; no changes should be made to the json files unless authorized to do so.

CAUTION: This assumes that you will use the tgbconfig utility and edit one line at a time. If you choose to view the entire file, you will see other options not mentioned below. These options should be left in their default state unless instructed otherwise!

- To display the entire configuration file, type tgbconfig at the prompt.
- To display a specific value, type tgbconfig and then the configuration item. Example: tgbconfig network.eth0.enabled
- To add a key and value or edit a value, type tgbconfig, then the configuration item, then the value. Example: tgbconfig network.eth0.enabled 1

1. Set the Base Station ID. This must be a unique number.

```
tgbconfig base_station_id xxxxxxxx
```

2. Set the host name. This must be a unique name.

```
tgbconfig hostname xxxxxxxx
```

3. Set the timezone. US/Eastern is the default. for all the possible options, go to *http://en.wikipedia.org/wiki/List_of_tz_database_time_zones*.

```
tgbconfig timezone xxxxxxxx
```

4. Configure the network by setting the following keys.

```
tgbconfig network.eth0.ip xxx.xxx.xxx.xx
tgbconfig network.eth0.netmask xxx.xxx.xxx.xxx
tgbconfig network.eth0.gateway xxx.xxx.xxx.xxx
```

for this transceiver.

5. If you are using a firewall:

tgbconfig firewall_enabled x, where 0 is the default and disabled and 1 is enabled. If you enable a firewall, you also must configure a host or subnet that will be allowed to establish ssh connections to this M400B2:

```
tgbconfig network.management_console.ip xxx.xxx.xxx.xxx
tgbconfig network.management_console.netmask xxx.xxx.xxx.xxx
```

Leaving the netmask at the default of 255.255.255.255 will effectively void the management console feature of the firewall.

6. Configure your ntp time servers. You have the option to enter up to four servers; the default is two (Sensus recommendation). You should set the ntp IP address to either the address of your internal time servers or an appropriate time server for your geographic location.

```
tgbconfig ntp.server_count 2
tgbconfig ntp.ntpservers0 xxx.xxx.xxx.xxx
tgbconfig ntp.ntpservers1 xxx.xxx.xxx.xxx
```

7. If configuring to talk to a RNI, enter the data and command IP addresses.

```
tgbconfig rni.data_ip xxx.xxx.xxx.xx
tgbconfig rni.command_ip xxx.xxx.xxx.xx
```

The default for these fields is 127.0.0.1. It is recommended that you leave these defaults in place until the Base Station is assigned to an RNI.

8. Configure the RF card. The RF card count will always be 1 and is named rfcard0. The type, path, and speed will not change. The rx_frequency should be the center frequency of the RF card in hertz, and should be assigned by Sensus. It is recommended that you leave the number of timeslots at the default of 6.

```
tgbconfig rfcards.rfcard_count 1
tgbconfig rfcards.rfcard0.rx_frequency xxxxxxxx
tgbconfig rfacrds.rfcard0.number_of_timeslots 6
```

9. Configure the Receiver radio frequency and modulation.

The CPC count is 1 and the node is named cpc0. The type, path, and speed will not change. There are 2 hardware chains for each CPC; each begins with an FPGA and covers a bandwidth of 100 kHz. Both chains must be utilized in a back-to-back frequency range to use the full 200 kHz option in a M400B2.

The FPGA frequency sets the receive bandwidth. This is calculated in 6.25 kHz steps, so if you set the rx_frequency to 901100 kHz, then set the fpga_freq to 8, you are

adding 50 kHz so the FPGA will be centered on 901150. In the same manner, set the dsp_freq for the channel that the receiver processes. Using the above numbers, if you set the DSP frequency to -6, you are subtracting -37.5 kHz from the FPGA number, meaning you end up with the center frequency of 901112500.

```
tgbconfig receivers.cpc0.chain0.fpga_freq x
tgbconfig receivers.cpc0.chain0.recv_count x
tgbconfig receivers.cpc0.chain0.rcvr0.dsp_freq x
tgbconfig receivers.cpc0.chain0.rcvr0.modulation x
tgbconfig receivers.cpc0.chain0.rcvr0.width x
```

You will also need to set the assigned modulation and width; it should be noted that each receiver can have only one modulation so you need to set the recv_count to the appropriate number to accommodate the number of modulations you want to employ. The current modulation types can be seen in the following table. For combination modulations, you must still have only one modulation for each receiver, but put each modulation you want in combination on the same DSP frequency.

The current modulation types:

Value	Modulation Type	Value	Modulation Type
0	Receiver Disabled	12	2-level half-baud SFSK (6.25 kbps 2GMSK BT=0.36)
1	Normal (full-baud 7FSK)	13	4-level half-baud SFSK(12.5 kbps 4GMSK BT=0.36)
2	Double Density (full-baud 13FSK ½ coded)	16	mPass (5 kbps filtered 2GFSK or 2GMSK)
4	C&I (half-baud 13FSK)	17	mPass2 (10 kbps filtered 2GFSK or GMSK)
5	Priority (half-baud 13FSK)	18	m4Pass (10 kbps 4GMSK)
8	2-level SFSK (12.5 kbps 2GMSK BT=0.36)	19	m4Pass2 (20 kbps 4 GMSK)
9	4-level SFSK (25 kbps 4GMSK BT=0.36)	20	mPass12k (12.5 kbps filtered 2 GFSK or 2GMSK)

For width you have three options: 0-12.5 kHz, 1=25 kHz, 2=50kHz.

Note: It is very important that all keys entered under Receivers match those on the Sensus Base Station Site Configuration sheet. If you enter these keys incorrectly, the Base Station will not receive correctly.

10. Configure the transmit channels. The default channel count is set to 3 though it can be set to any number from 0-15. It is also important to note that the channel number is just the name of that block while the frequency id is the identifying name of that frequency. For example, you could have 3 channels where the block names are channel0, channel1 and channel2, but the frequency id numbers are 0, 2, and 3. The channel frequency is specified by base and offset.

```
tgbconfig transmit_channels.channel_count x
tgbconfig transmit_channels.channel0.frequency_id x
tgbconfig transmit_channels.channel0.base xx
tgbconfig transmit_channels.channel0.offset xxx
```

11. If desired, configure a frequency identifier wildcard to support broadcast messages during firmware download.

```
tgbconfig transmit_channels.wildcard_count x
```

```
tgbconfig transmit_channels.wildcard0.source x
tgbconfig transmit_channels.wildcard0.target_count x
tgbconfig transmit_channels.wildcard0.target0 x
```

12. Configure your transmit options.

```
tgbconfig transmit_options.transmit_mode x
```

Transmit mode sets the operating mode for transmitting on the network. The options are 0 for dithered, 1 for basic synchronized, 2 for strict synchronized, or 3 for multi-channel synchronized. If you select dithered you will need to set the dither parameters as well.

13. Configure the time broadcasts. You will need to set the timezone offset and the broadcast count. The following is an example (in seconds):

```
tgbconfig time_broadcasts.timezone_offset 0
tgbconfig time_broadcasts.broadcast_count 3
tgbconfig time_broadcasts.max_clock_drift 0.450
```

Clock drift is the difference between local time and NTP/GPS time in seconds. If the time clock drift is greater than max_clock_drift, time sync messages will not be sent.

You will also need to configure the modulation, which is set by the bitrate under time broadcast.

```
tgbconfig time_broadcasts.broadcast0.bitrate 1
```

The modulation modes in bitrate value:

Value	Modulation Mode
0	5k bps mPass
1	10k bps mPass2
2	Both 0 & 1 bitrates will go out in two broadcasts
3	10 Kbps 4GFSK m4Pass
4	20 Kbps 4GFSK m4pass2

14. If you want to use momcomm, enable it (1=enable, 0=disable) and select the channel and transmit slot. Please note that momcomm cannot be on the same channel as electric.

```
tgbconfig momcomm.enabled 1
tgbconfig momcomm.channel x
tgbconfig momcomm.transmit_slot x
```

15. If you have a SPM-900 installed and want to monitor, enable the power monitor:

```
tgbconfig power_monitor.enabled 1
```

In addition, to view the monitoring you will want to turn on alarm logging.

16. Reboot the Base Station (so it accepts the information you have just entered) by typing reboot at the # prompt and pressing Enter.
17. When the reboot is complete, log in and perform the following:
    - Issue the tgbconfig command to validate the changes.
    - Stop tgbprogs (tgbprog stop).
    - Remove aspdiskspool.dat (rm /opt/tgbprogs/diskspools/aspdiskspool.dat).
    - Start tgbprogs (tgbprog start).

18. You can now perform other tasks or remove the USB cable from the diagnostic port and exit your terminal emulation program.

Configure the RNI for M400B2 communication

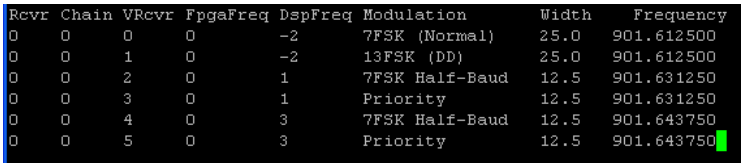
There is a file on the NC box, translationv2tov1.cfg, that needs to be edited in order for the RNI to recognize messages coming from the M400B2. This file should only need to be edited at initial installation.

The transceiver must point to the specific NC box. If you did not enter the data and command IP addresses when configuring the transceiver you must do so now. These IP addresses must be the correct values for your M400B2 installation and not the default of 127.0.0.1.

```
tgbconfig rni.data_ip xx.xxx.xxx.xx
tgbconfig rni.command_ip xx.xxx.xxx.xx
```

For further information on RNI configuration as it pertains to the M400B2 please refer to the FlexNet™ RNI Base Station Security User Guide (AUG-10024-xx).

1. Login to the M400B2 transceiver and at the prompt type tgbmenu (see *Using tgbmenu* on page 44).
2. Enter **V** or **v** for versions and note the version of the RF card firmware.
3. Enter **X** or **x** for transmitter, then option **3** for Receive Channels. You should get a screen that looks something like the following:



Rcvr	Chain	VRcvr	FpgaFreq	DspFreq	Modulation	Width	Frequency
0	0	0	0	-2	7FSK (Normal)	25.0	901.612500
0	0	1	0	-2	13FSK (DD)	25.0	901.612500
0	0	2	0	1	7FSK Half-Baud	12.5	901.631250
0	0	3	0	1	Priority	12.5	901.631250
0	0	4	0	3	7FSK Half-Baud	12.5	901.643750
0	0	5	0	3	Priority	12.5	901.643750

   Note the center frequency (far right), the modulation, and the fpga/dsp frequencies. You will need to match these with the values in the NC .cfg file.
4. Login to the NC box of your RNI. The file is located in /opt/ncprogs/etc/translationv2tov1.cfg. Open this file for editing using the vi command.
5. This configuration file is divided into sections. The first section is the RF card firmware version. This number should match the number you noted in step 2 (the version number noted from tgbmenu is in hexadecimal but the version number in the NC box is in decimal—so rf version 7.9=121, and so on).
6. The second section is the RX center frequency. This number needs to match the number that was entered as the center of the RF frequency in the .json file.
7. The third section is the RF card RX bandwidth. For the M400B2, this number will most likely be 2, which equals 100 kHz; 1 equals 50 kHz.
8. The fourth section is the CPC card emulation. This shows the modulation, the channel, and the frequency, which need to match what you noted in step 3. However, the modulation and channel numbers in this file are based on the scheme used in S/D/T base stations so you will need to carefully check the numbers. The following table and picture provide a comparison of modulation types and a graphic representation of how the channel steps line up (legacy = S/D/T).

M400B2 Value	S/D/T Value	Modulation Type
0	0	Receiver Disabled
1	1	7FSK (Normal Mode)

M400B2 Value	S/D/T Value	Modulation Type
2	5	13FSK (Double Density)
3		13FSK Rate ¾ FEC
4	3	7FSK Half-Baud (C&I)
5	4	Priority Mode
6	2	Boost Mode

Compliance Statements

Warning: Sensus devices are for professional installation only. They are to be serviced by professional personnel only. This product is NOT for consumer installation or servicing.

Radiation Hazard: In order to satisfy the FCC RF exposure limit for transmitting devices, a separation distance of 3 m (9.8 ft.) or more should be maintained while operating the Sensus M400 transceiver with a 12.15 dBi antenna. To ensure compliance, operation at closer than this distance is not recommended. This minimum safe distance is required between personnel and this antenna of this device.

Radiation Hazard: In order to satisfy the ISED RF exposure limit for transmitting devices, a separation distance of 4.4 m (14.4 ft.) or more should be maintained while operating the Sensus M400 transceiver with a 12.15 dBi antenna. To ensure compliance, operation at closer than this distance is not recommended. This minimum safe distance is required between personnel and this antenna of this device.

Afin de satisfaire à la limite d'exposition RF pour les appareils de transmission, une distance de séparation de 4.4 m (14.4 pieds) ou plus doit être maintenu pendant le fonctionnement du Sensus appareil (M400/12.15 dBi antenne). Pour assurer la conformité, un fonctionnement à distance inférieure à celle est pas recommandée. Cette distance minimale de sécurité est nécessaire entre le personnel et l'antenne de cet appareil.

Radiation Hazard: In order to satisfy the FCC RF exposure limit for transmitting devices, a separation distance of 7.5 m (24.6 ft.) or more should be maintained while operating the Sensus M400 transceiver with a 20.15 dBi antenna. To ensure compliance, operation at closer than this distance is not recommended. This minimum safe distance is required between personnel and this antenna of this device.

Note: CFR 47 Part 101 limits the radiated power to 1,000W in the 941.0 MHz to 941.5 MHz frequency band. Use of a 20.15 dBi antenna may require the use of an inline RF attenuator. Professional installation required.

Radiation Hazard: In order to satisfy the ISED RF exposure limit for transmitting devices, a separation distance of 11 m (36.1 ft.) or more should be maintained while operating the Sensus M400 transceiver with a 20.15 dBi antenna. To ensure compliance, operation at closer than this distance is not recommended. This minimum safe distance is required between personnel and this antenna of this device.

Afin de satisfaire à la limite d'exposition RF pour les appareils de transmission, une distance de séparation de 11 m (36.1 pieds) ou plus doit être maintenu pendant le fonctionnement du Sensus appareil (M400/20.15 dBi antenne). Pour assurer la conformité, un fonctionnement à distance inférieure à celle est pas

recommandée. Cette distance minimale de sécurité est nécessaire entre le personnel et l'antenne de cet appareil.

Note: SRSP-505 limits the radiated power to 250W, 600W, or 2,500W depending on the use case in the 941.0MHz to 941.5MHz frequency band and in the 952.0MHz to 953.0MHz frequency band. SRSP-509 limits the radiated power to 2,500W in the 930.0MHz to 931.0MHz frequency band and in the 940.0MHz to 941.0MHz frequency band. Use of a 20.15 dBi antenna may require the use of an inline RF attenuator.

Warning: The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

Attention: For Class B - Unintentional Radiators:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Shock Warning: Hazardous voltages are present: To reduce the risk of electric shock and danger to personal health, follow the instructions.

Warning: Any modifications made to this device that are not approved by Sensus may void the authority granted to the user by the FCC to operate equipment.

Attention: ICES-003 Class B Notice-Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la classe B est conforme à la norme NMB-003 du Canada.

Warning: When applicable, there is danger of explosion if batteries are mishandled or incorrectly replaced. On systems with replaceable batteries, replace only with the same manufacturer and type or equivalent type recommended per the instructions provided in the product service manual.

Do not disassemble batteries or attempt to recharge them outside the system. Do not dispose of batteries in fire.

Dispose of batteries properly in accordance with the manufacturer's instructions and local regulations.



Shock Warning: For products with multiple power cords, all power cords must be disconnected to completely remove power from the system.



Shock Warning: For products that use power cords, not all power cords have the same current ratings. Do not use the power cord provided with your equipment for any other use. Household extension cords do not have overload protection and are not meant for use with computer systems. Do not use household extension cords with your Sensus product.



Warning: Do not dispose in fire, mix with other battery types, charge above specified rate, connect improperly, or short circuit, which may result in overheating, explosion or leakage of cell contents.



Warning: This radio is intended for use in occupational/controlled conditions, where users have full knowledge of their exposure and can exercise control over their exposure to meet FCC limits. This radio device is NOT authorized for general population, consumer or any other use.



Shock Warning: Sensus products are designed to be connected only to a grounded main circuit outlet. Do not defeat the plug grounding pin and do not plug these products into a non-grounded main power circuit.



Attention: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Attention: This radio transmitter M400 Transceiver has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio M400 Transceiver a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

- DIPOLE 10 dBd (12.15 dBi)
- DIPOLE 18 dBd (20.15 dBi)

Attention: Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Warning:

ANTENNAS:

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur. Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode. Antenna grounding shall be according to the National Electrical Code, ANSI/NFPA 70.

Warning:

This product can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

ATTACHMENT N: TERMS OF SALE AND WARRANTIES

CORE & MAIN

CITY OF WAUCHULA WARRANTY

The warranties on meters included in Project Materials and Supplies, and on Work, and Services shall be as follows:

1. Project Materials and Supplies.

(a) General. Meters and equipment included in Project Materials and Supplies that Client purchases from Core & Main LP ("Core & Main") are warranted by the manufacturer to be free from Manufacturers' Defects for the period specified in the manufacturer's warranty. A copy of the present warranty of each manufacturer that will supply meters and equipment as part of the Project Materials and Supplies is attached hereto. The term of such manufacturer's warranty shall be as set forth in such attached manufacturer's warranty (as the same may be changed from time to time during the course of the performance of the Agreement, but with changes to apply only to purchases of meters or equipment occurring after the change becomes effective), but generally the start date for warranties is the date of the manufacturer's shipment of such meters or equipment as noted in the applicable Acceptance Certificate ("Manufacturer's Warranty Period"). PROJECT MATERIALS AND SUPPLIES OTHER THAN METERS AND EQUIPMENT ARE NOT WARRANTED. CORE & MAIN DOES NOT PROVIDE ANY SEPARATE WARRANTY FOR PROJECT MATERIALS AND SUPPLIES.

(b) Core & Main's Responsibility. Upon any breach of the manufacturer's warranty on meters or equipment noticed to Core & Main during the applicable Manufacturer's Warranty Period, Core & Main's sole responsibility shall be to cooperate with Client in arranging for the manufacturer to repair or replace any defective meters or equipment.

2. Installation Work and Services.

(a) General. Core & Main warrants that all installation Work and Services provided by Core & Main shall be performed by Core & Main in a workmanlike manner and in compliance with any specifications set forth in this Agreement, with such warranty to expire one year from the date when such installation Work was performed or such Services were provided (the "Warranty Period").

(b) Exclusive Remedy. Upon any breach of Core & Main's warranty as to installation Work or Services during the applicable Warranty Period, Core & Main's sole responsibility shall be to perform any corrective installation Work or Services necessary to bring Core & Main's installation Work and Services into compliance with such requirements.

3. DISCLAIMER OF FURTHER LIABILITIES. EXCEPT FOR THE FOREGOING EXPRESS WARRANTY, CORE & MAIN DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT, WHETHER ARISING OUT OF WARRANTY, INDEMNITY, TORT, CONTRACT OR OTHERWISE, SHALL CORE & MAIN BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND.

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Sensus Terms of Sale

FEB 2023

1. **DEFINITIONS**. "Customer" means the party purchasing goods or services pursuant to these Terms of Sale ("Terms"). "Sensus" means Sensus USA Inc., a Delaware corporation. "Deliverables" means the Sensus goods and services sold or otherwise provided pursuant to this Agreement. Software licenses are provided solely through a separate Sensus software license.
2. **CONTRACT OF SALE**. All Sensus Deliverables are offered for sale subject to the prices and other terms specified in (a) the applicable Sensus quotation, proposal or pricelist, and (b) these Terms (together, the "Proposal"), all of which are subject to the correction of clerical errors. A Customer's purchase order or similar writing shall constitute an acceptance of the offer to sell; however, any inconsistent, additional or different terms to the Proposal contained in a Customer's request for quotation or purchase order (collectively, "Additional Terms") are hereby objected to and rejected by Sensus. Such Additional Terms will not become part of the contract of sale unless accepted by Sensus in a writing signed by a vice president (or higher) of Sensus.
3. **ENTIRE AGREEMENT**. These Terms, the General Limited Warranty, Customer's purchase order (except any Additional Terms), Sensus' Acknowledgement Form (if any), and Sensus' invoice constitutes the entire agreement ("Agreement") between the parties hereto with respect to the subject matter hereof and supersedes any and all prior agreements, understanding or other communications, whether written or oral, formal or informal, between them in respect of the order. No consent, waiver, alteration, amendment, or modification shall be binding unless in writing and signed by a vice president (or higher) of Sensus.
4. **PRICES**. All prices are subject to change based on Sensus' selling prices in effect as of date of shipment. Prices quoted for blanket orders are subject to review and retroactive adjustment, if necessary, based on actual quantities shipped.
5. **TAXES**. All prices quoted are exclusive of federal, state and municipal taxes. Customer shall be liable for all sales, use and other taxes (whether local, state or federal) imposed on this Agreement or on the Deliverables.
6. **TITLE AND RISK OF LOSS**. All Deliverables are shipped Ex Works shipping point, prepay freight and add. Title to, and property in, the Deliverables shall pass to Customer upon shipment. Risk of loss of the Deliverables shall also pass to Customer upon shipment.
7. **PAYMENT TERMS**. Customer shall pay all invoices in USD within thirty (30) days of the invoice date. No deductions, whether by way of set-off, counterclaim, withholding, or otherwise, shall be made by the Customer. Sensus reserves the right to establish credit limits for Customer and may require full or partial payment prior to provision of any Deliverables. All payments shall be made via electronic payment according to instructions provided by Sensus. The Customer must notify Sensus, in writing, within seven days of receipt of an invoice if the Customer disputes such invoice. In the absence of such notice the Customer shall not be entitled to dispute an invoice. Save for any invoices disputed in good faith in accordance with the previous sentence, if the Customer does not pay within the time provided in this Agreement, the amount due shall bear interest at the lower of (i) one and a half percent (1.5%) per month up to a maximum of eighteen percent (18%) per year; or (ii) the highest rate permitted by applicable law. Should Customer become delinquent in payment of sums due hereunder, Sensus shall not be obligated to continue performance.
8. **PACKAGING**. Sensus reserves the right to select the manner in which Deliverables are packaged. Quoted prices include regular packaging. Special requirements for packaging will be subject to extra charges.
9. **DELIVERY**. Shipping dates and other dates quoted by Sensus are made in good faith but are not guaranteed. Dates cited for delivery are approximate only. If no dates are specified, Sensus will use its discretion to determine the shipping date. Sensus reserves the right to extend shipping dates and/or to make partial shipments as Sensus deems necessary in its sole discretion, without liability to Customer. In the absence of shipping instructions from Customer, Sensus will use its discretion as to the selection of shipping services and routings. If the Customer fails to take delivery of the Deliverables within seven (7) days of notification that the Deliverables are ready for delivery, Sensus shall be entitled, but is not required, on behalf of the Customer to put the relevant Deliverables into storage at the Customer's expense and risk. Delivery to storage shall constitute delivery to the Customer. Installation of Deliverables is the responsibility of the Customer unless otherwise agreed in writing.
10. **FORCE MAJEURE**. If Sensus becomes unable, either wholly or in part, by an event of Force Majeure, to fulfill its obligations under this Agreement, the obligations affected by the event of Force Majeure will be suspended during the continuance of that inability. "Force Majeure" means an event beyond the reasonable control of Sensus, including without limit acts of God, hurricane, flood, volcano, tsunami, tornado, storm, tempest, mudslide, vandalism, illegal or unauthorized radio frequency interference, strikes, lockouts, or other industrial disturbances, immigration, unavailability of component parts of any Deliverables provided hereunder, acts of public enemies, border disputes, border disruptions, delivery vehicle impound, wars, blockades, insurrections, riots, epidemics, earthquakes, fires, restraints or prohibitions by any court, board, department, commission or agency of the United States or any States, any arrests and restraints, civil disturbances and explosions.
11. **CANCELLATION**. Orders submitted to Sensus may not be canceled or amended, or deliveries deferred, by Customer except with Sensus' prior written consent, and then only upon such terms as shall be acceptable to Sensus.
12. **WARRANTIES**. Sensus' sole warranty and remedies associated therewith are set forth in the General Limited Warranty found at: sensus.com/tc, or available at 1-800-METER-IT, which General Limited Warranty is hereby incorporated into these Terms. THE WARRANTIES IN THIS SECTION ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO DELIVERABLES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THESE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.
13. **INTELLECTUAL PROPERTY**. No Intellectual Property is assigned to Customer hereunder. Sensus shall own or continue to own all Intellectual Property used or created in the course of performing this Agreement. To the extent, if any, that any ownership interest in and to such Intellectual Property does not automatically vest in Sensus, and instead vests in Customer, Customer agrees to grant and assign and hereby does grant and assign to Sensus all right, title, and interest that Customer may have in and to such Intellectual Property. Customer agrees not to reverse engineer any Deliverables purchased or provided hereunder. "Intellectual Property" means patents and patent applications, inventions (whether patentable or not), trademarks, service marks, trade dress, copyrights, trade secrets, know-how, data rights, database rights, specifications, drawings, designs, maskwork rights, moral rights, author's rights, and other intellectual property rights, as may exist now or hereafter come into existence, and all renewals and extensions thereof, regardless of whether any of such rights arise under the laws of the United States or of any other state, country or jurisdiction, any registrations or applications thereof, and all goodwill pertinent thereto. The Customer waives any moral rights they may have in the Intellectual Property.
14. **LIMITATION OF LIABILITY**.
    (a) SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE, OR OTHERWISE.
    (b) AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) CLAIMS MADE BY A THIRD PARTY; NOR (V) MANUAL METER READ COSTS AND EXPENSES. "IN/OUT COSTS" MEANS ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN TRANSPORTING GOODS BETWEEN ITS WAREHOUSE AND ITS END USER'S PREMISES AND ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN INSTALLING, UNINSTALLING AND REMOVING GOODS. "END USER" MEANS ANY END USER OF ELECTRICITY/WATER/GAS THAT PAYS CUSTOMER FOR THE CONSUMPTION OF ELECTRICITY/WATER/GAS, AS APPLICABLE.
    (c) The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.
    (d) To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.
    (e) If Customer is not the sole end user and ultimate owner of the Deliverables, then Customer shall ensure by its contract with the end user and ultimate owner (collectively, "Owner") that Sensus is given the benefit of the exclusions and limitations set out in these Terms. Customer agrees to indemnify, defend, and hold harmless Sensus from and against all Losses (defined below) alleged by any Owner to the extent that Sensus would not be liable to Customer under these Terms if the claim had been made by Customer.
15. **INDEMNIFICATION**. Customer agrees to defend, indemnify and hold harmless Sensus from and against all claims, liabilities, demands, damages, losses, costs and expenses, in law or in equity, of every kind and nature whatsoever (collectively, "Losses"), to the extent arising out of Customer's use of the Deliverables,, except to the extent such Losses arise out of a breach of this Agreement by Sensus.
16. **CONFIDENTIALITY**. Customer shall (and shall cause its employees, contractors and any Owner to) keep all Sensus Confidential Information strictly confidential and shall not disclose it to any third party or use it, except to the extent reasonably required to perform and enforce this Agreement or as required under applicable law, court order or regulation. As used herein, "Sensus Confidential Information" means any and all non-public information disclosed by Sensus, including without limitation, all technical information about products or services, pricing information, marketing and marketing plans, provision of Deliverables, performance of the Deliverables, Deliverables architecture and design, other business and financial information, software and all trade secrets. Sensus Confidential Information may be transmitted orally, in writing, electronically or otherwise observed by Customer. Notwithstanding the foregoing, "Sensus Confidential Information" shall not include: (i) any information in the public domain other than due to Customer's breach of this Agreement; (ii) any information in the possession of the Customer without restriction prior to disclosure by Sensus; or (iii) any information independently developed by the Customer without reliance on or access to the information disclosed hereunder by Sensus.
17. **RETURNS**. No Deliverables may be returned for credit or repair without the prior written authorization of Sensus. Authorized return shipments must be returned in good condition to Sensus' designated receiving point, must be shipped in suitable packaging, must be accompanied by a packing slip, including Sensus' Return Authorization Number, and must have transportation charges prepaid. Deliverables are deemed returned upon Sensus' receipt of the relevant Deliverable (in compliance with this section) at the address designated by Sensus. Correspondence concerning all returned Deliverables must be addressed to the appropriate Sensus office. Sensus reserves the right to deduct an adequate service charge to cover all inspection, testing and handling from any credit.

639 Davis Drive
Morrisville, NC 27560
1-800-638-3748

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18. **ASSIGNMENT**. Customer may not assign, transfer or delegate this Agreement or any part of Customer's rights or duties without prior written consent of Sensus. Any attempted assignment in violation of this section shall be null and void.

19. **GOVERNING LAW AND DISPUTE RESOLUTION**. This Agreement shall be governed by, construed and enforced in accordance with the laws of the State of Delaware, without regard to conflicts of law principles. Any and all disputes arising under, out of, or in relation to this Agreement or its performance ("Disputes") shall first be resolved by the Parties attempting mediation in Delaware. If the Dispute is not resolved within sixty (60) days of the commencement of the mediation, it shall be litigated in the state or federal courts located in the State of Delaware. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE PARTIES AGREE TO A BENCH TRIAL AND THAT THERE SHALL BE NO JURY IN ANY DISPUTES.

20. **COMPLIANCE WITH LAWS, INCLUDING ANTI-CORRUPTION LAWS**. Customer shall comply with all applicable laws and regulations, as set forth at the time of acceptance and as may be amended, changed, or supplemented. Customer shall not take any action, or permit the taking of any action by a third party, which may render Sensus liable for a violation of applicable laws. (a) *EXPORT CONTROL LAWS*. Customer shall; (i) comply with all applicable U.S., state, and local laws and regulations governing the use, export, import, re-export, and transfer of products, technology, and services; and (ii) obtain all required authorizations, permits, and licenses. Customer shall immediately notify Sensus, and immediately cease all activities with regards to the applicable transaction, if the Customer knows or has a reasonable suspicion that the Deliverables may be directed to countries in violation of any export control laws. By ordering Deliverables, Customer certifies that it is not on any U.S., or other applicable, government export exclusion list. (b) *ANTI-CORRUPTION LAWS*. Customer shall comply with the United States Foreign Corrupt Practices Act (FCPA), 15 U.S.C. §§ 78dd-1, et seq.; laws and regulations implementing the OECD's Convention on Combating Bribery of Foreign Public Officials in International Business Transactions; the U.N. Convention Against Corruption; the Inter-American Convention Against Corruption; and any other applicable laws and regulations relating to anti-corruption in the Customer's county or any country where performance of this Agreement, or delivery or use of Deliverables will occur.

21. **SEVERABILITY**. In the event any provision of this Agreement is held to be void, unlawful or otherwise unenforceable, that provision will be severed from the remainder of the Agreement and replaced automatically by a provision containing terms as nearly like the void, unlawful, or unenforceable provision as possible; and the Agreement, as so modified, will continue to be in full force and effect.

22. **NON-WAIVER**. Failure or delay of Sensus to exercise a right or power under this Agreement shall not operate as a waiver thereof, nor shall any single or partial exercise of a right or power preclude any other future exercise thereof.

639 Davis Drive
Morrisville, NC 27560
1-800-638-3748

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SENSUS G-500 LIMITED WARRANTY

REVISED JUNE 2024

1. **General Product Coverage**. Unless otherwise provided herein, Sensus USA Inc. ("Sensus") warrants its products and parts to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment and as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at xylem.com

2. **SR II® and accuSTREAM™ 5/8", 3/4" & 1" Meters** are warranted to perform to new meter accuracy level set forth in the SR II and accuSTREAM Data Sheets available at sensus.com for five (5) years from the date of Sensus shipment or until the registration shown below, whichever occurs first. Sensus further warrants that the SR II and accuSTREAM meters will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	New Meter Accuracy	Repair Meter Accuracy
5/8" SR II Meter and accuSTREAM Meter	500,000 gallons	1,500,000 gallons
3/4" SR II Meter and accuSTREAM Meter	750,000 gallons	2,250,000 gallons
1" SR II Meter and accuSTREAM Meter	1,000,000 gallons	3,000,000 gallons

3. **SR II maincases** are warranted to be free from defects in material and work-manship for twenty-five (25) years from the date of Sensus shipment. accuSTREAM maincases will be free from defects in material and workmanship for fifteen (15) years from the date of Sensus shipment.

4. **ally® Meters** that register water flow are warranted to perform to the accuracy level set forth in the ally data sheet available at sensus.com for fifteen (15) years from the Date of Installation, but no longer than sixteen (16) years from date of manufacture, not including the meter's sensors, valve, and gear motor, which are warranted under different terms described below. As used herein, "Date of Installation" means the date after which the ally Meter has been out of empty pipe for seven (7) consecutive days, as those days are measured by the ally Meter and stored in the meter's nonvolatile memory.

5. **ally® Meter Batteries and Components**, including SmartPoint 510M/520M Modules are warranted to be free from defects in material and workmanship from the Date of Installation, as defined in Section 4, for the period stated below:

Batteries	15 years[1]
Sensors	5 years
Valve & Gear Motor	5 years[2]
SmartPoint 510M/520M modules and batteries in service w/ally	15 years[1]

6. **iPERL® Meters** that register water flow are warranted to perform to the accuracy levels set forth in the iPERL data sheet available at sensus.com for twenty (20) years from the date of Sensus shipment. The iPERL System Component warranty does not include the external housing.

7. **iPERL, ally, OMNI+, and Cordonel Connectors and Cables** are warranted to be free from defects in materials and workmanship, under normal use and service, for ten (10) years from the date of Sensus shipment. Nicor or Itron connectors included with a Sensus product are warranted according to the terms for Third-Party Devices in Section 16.

8. **Sensus OMNI™, OMNI+ Meters and Propeller Meters** are warranted to perform to as set forth in OMNI and Propeller data sheets for eighteen (18) months from the date of Sensus shipment.

9. **Sensus Cordonel Meters** are warranted to perform to the accuracy levels as set forth in the Cordonel data sheet available at sensus.com for twenty (20) years from the date of Sensus shipment. The Cordonel System Component warranty does not include the external housing.

10. **Sensus Cordonel maincases** are warranted to maintain their structural integrity for a period of twenty (20) years from the date of Sensus shipment.

11. **Cordonel Meter Batteries and Components** are warranted to be free from defects in material and workmanship from the Date of Installation, as defined in Section 9, for the period stated below:

Batteries	20 years[3]
Sensors	5 years
SmartPoint 510M/520M modules and batteries in service w/ Cordonel models with pressure	15 years[4]

12. **Sensus accuMAG™ and Hydroverse™ Meters** are warranted to be free from defects in material and workmanship, under normal use and service, for 18 months from the date of Sensus shipment or 12 months from startup, whichever occurs first.

13. **Sensus Registers** are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the periods stated below or until the applicable registration for AWWA Repaired Meter Accuracy Standards, as set forth above, are surpassed, whichever occurs first:

5/8" thru 2" SR II, accuSTREAM Standard Registers	25 years
5/8" thru 2" SR II, accuSTREAM Encoder Registers	10 years
All HSPU, IMP Contactor, R.E.R. Elec. ROFI	1 year
OMNI and OMNI+ Registers with Battery	10 years
Standard and Encoder Registers for Propeller Meters	1 year

14. **Sensus Electric and Gas Meters** are warranted pursuant to the General Limited Warranty available at sensus.com/TC.

15. **Batteries, iPERL System Components, AMR and FlexNet® Communication Network AMI Interface Devices** are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the period stated below:

7500 series Hand-Held Device	2 years
Act-Pak® Remote Monitoring Instruments	1 year
CPTP100	20 years[4]
EasyLink Reader	1 year
Electronic TouchPad	10 years
FlexNet Base Station (including the R100NA and M400 products)	1 year
Gas SmartPoint® Modules and Batteries	20 years[5]
iPERL System Battery and iPERL System Components	20 years[3]
RM4160	1 year

1 If applicable, any SmartPoint 510M/520M Modules ever paired with an ally meter or Cordonel with pressure meter are warranted with the following limitations:
- When configured to the default installation setting of six transmissions of metrology and pressure per day and one update of temperature per day, the SmartPoint module is warranted to perform up to five (5) firmware upgrades for the SmartPoint module and up to five (5) firmware upgrades for the ally meter or Cordonel (with pressure) meter;
- 2500 Operational Commands, where "Operational Commands" include on demand reads (such as consumption, pressure, temperature), an ally meter valve command, or a configuration command; and
- 15 Diagnostic Commands, which includes two-way communications tests and installations

for the first ten (10) years from Date of Installation at no cost. For the remaining five (5) years, Customer will pay the reduced Replacement Price of the then-current list price in effect at the time the product is accepted for return in accordance with the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-10	0%	13	55%	15	75%
11	35%	14	65%	>15	100%
12	45%				

2 Notwithstanding the foregoing, valve and gear motor components of ally meters are not warranted beyond two thousand (2000) Valve State Operations, even if the warranty period provided herein has not yet expired. As used herein, "Valve State Operations" means adjustments of the Meter to open, close, or reduce flow.

3 Sensus will repair or replace non-performing:
- iPERL System Batteries, and/or the iPERL System flow tube, the flow sensing and data processing assemblies, and the register ("iPERL System Components") with hourly reads manufactured after April 2018
- Cordonel System Batteries, the flow sensing and data processing assemblies, and the register ("Cordonel System Components")
- SmartPoint 510M/520M/515M/512M-PLS/522M Modules manufactured after April 2018 (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to five firmware downloads during the life of the product) and batteries, unless the SmartPoint 510M/520M/522M Module is ever paired with an ally Meter, which immediately amends the warranty terms to those described in Section 13 at no cost for the first fifteen (15) years from the date of Sensus shipment, and for the remaining five (5) years at a prorated percentage, applied towards the published list price in effect for the year the product is accepted by Sensus under the warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-15	0%	18	50%	20	70%
16	30%	19	60%	>20	100%
17	40%				

4 Sensus will repair or replace non-performing CPTP100 modules (configured at factory setting of four transmissions per day under normal system operations of up to one demand read per month and up to five firmware downloads during the life of the product) and batteries.

5 Sensus will repair or replace non-performing Gas SmartPoint Modules (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to five firmware downloads during the life of the product) and batteries, for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-10	0%	14	45%	18	65%
11	30%	15	50%	19	70%
12	35%	16	55%	20	75%
13	40%	17	60%	>20	100%

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Sensus® Electronic Register+™	20 years[6]
Sensus® Smart Gateway Sensor Interface	1 year[7]
SmartPoint® 510M/520M/515M/512M Modules and Batteries	20 years[1]
Vehicle Gateway Base Station (VGB) and other AMR Equipment	1 year

16. **Third-Party Devices** are warranted to be free from defects in materials and workmanship, under normal use and service, for one (1) year from the date of Sensus shipment. As used in this Sensus Limited Warranty, "Third Party Devices" means any product, device, or component part used with a Sensus product that is manufactured or sold by any party that is not Sensus. Failure of a Third-Party Device which subsequently causes failure to a Sensus device shall be the responsibility of the manufacturer of the Third-Party Device.

17. **Software**. Software supplied and/or licensed by Sensus is supported accord¬ing to the terms of the applicable software license or usage agreement. Sensus warrants that any network and monitoring services shall be performed in a professional and workmanlike manner.

18. **Return**. Sensus' obligation, and Customer's exclusive remedy, under this Sensus Limited Warranty is, at Sensus' option, to either (i) repair or replace the product, provided the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the product (as instructed by Sensus), provided, that if Sensus requests, the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location. In all cases, if Customer does not return the product within the time period designated by Sensus, Sensus will invoice, and Customer will pay within thirty days of the invoice date, for the cost of the replacement product and/or components.

    The return of products for warranty claims must follow Sensus' Returned Materials Authorization (RMA) procedures. Water meter returns must include documentation of the Customer's test results. Test results must be obtained according to AWWA standards and must specify the meter serial number. The test results will not be valid if the meter is found to contain foreign materials. If Customer chooses not to test a Sensus water meter prior to returning it to Sen-sus, Sensus will repair or replace the meter, at Sensus' option, after the meter has been tested by Sensus. The Customer will be charged Sensus' then current testing fee. All products must be returned in accordance with the RMA process. For all returns, Sensus reserves the right to request meter read¬ing records by serial number to validate warranty claims.

    For products that have become discontinued or obsolete ("Obsolete Product"), Sensus may, at its discretion, replace such Obsolete Product with a different product model ("New Product"), provided that the New Product has substantially similar features as the Obsolete Product. The New Product shall be warranted as set forth in this Sensus Limited Warranty.

    THIS SECTION 18 SETS FORTH CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF THE PRODUCTS, SERVICES OR LICENSED SOFT¬WARE TO CONFORM TO THEIR RESPECTIVE WAR¬RANTIES.

19. **Warranty Exceptions and No Implied Warranties**. This Sensus G-500 Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus G-500 Limited Warranty do not apply to and Sensus has no liability for goods that have been: installed improperly or in non-recommended installations; installed to a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted; altered; damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions."). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing, or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

    THE WARRANTIES SET FORTH IN THIS SENSUS G-500 LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS SENSUS G-500 LIMITED WARRANTY OR WITH THE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

    SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SOFTWARE SERVICES, AND OTHER SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

20. **Limitation of Liability**.

    a. SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

    b. AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) MANUAL METER READ COSTS AND EXPENSES.

    c. The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

    d. To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.

6 Sensus will repair or replace non-performing Sensus Electronic Register+with hourly reads for the first ten (10) years from the date of Sensus ship¬ment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-10	0%	14	45%	18	65%
11	30%	15	50%	19	70%
12	35%	16	55%	20	75%
13	40%	17	60%	>20	100%

7 Sensus® Smart Gateway Sensor Interface warranty valid only for analog Meter Sample Rates of four times per hour with a Standard Transmit Rate of hourly or greater for the analog channel(s).

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SENSUS | 639 Davis Drive | Morrisville, NC 27560 | 1-800-638-3748

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SENSUS GENERAL LIMITED WARRANTY

REVISED JUNE 2024

1. **Terms of Sale**. Sensus USA Inc. ("Sensus") warrants its products and parts as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at xylem.com.

2. **Electric Meters and Electric SmartPoint™ Modules.** Sensus warrants electric meters provided by Sensus, as well as the embedded Sensus electric SmartPoint Modules, to be in compliance with their respective specifications under normal use and service, and to be free from material defects in materials and workmanship for a warranty period of twelve (12) months from the date of the installation or eighteen (18) months from the date of shipment, whichever occurs first. The warranty period for new spare parts and components sold by Sensus is twelve (12) months from the date of shipment. The warranty period for repaired or refurbished parts repaired by Sensus is ninety (90) days from the date of shipment, unless repaired pursuant to a warranty, in which case the repair is warranted for the time remaining of the original warranty period.

3. **Gas Products and Gas SmartPoint Modules.**

   a. Except for the Sonix line of meters, Sensus warrants the Sensus gas products to be in compliance with their respective specifications under normal use and service, and to be free from material defects in materials and workmanship for a warranty period of twelve (12) months from the date of the installation or eighteen (18) months from the date of shipment, whichever occurs first.

   b. Sensus warrants the Sensus Sonix and SonixIQ meters to be in compliance with their respective specifications under normal use and service, and to be free from material defects in materials and workmanship for a warranty period of fifteen (15) years from the date of shipment. Sensus warrants the batteries in the Sensus Sonix meters to be free from material defects in materials and workmanship for a warranty period of ten (10) years from the date of shipment. For the SonixIQ meter only, Sensus warrants the battery for an additional 10 years on a prorated basis, subject to the replacement fees below for years 11 – 20.

Years	Discounted Replacement Price	Years	Discounted Replacement Price
1-10	100%	16	40%
11	90%	17	30%
12	80%	18	20%
13	70%	19	10%
14	60%	20	0%
15	50%	>20	0%

   c. For all gas products, the warranty period for new spare parts and components sold by Sensus is twelve (12) months from the date of shipment. The warranty period for repaired or refurbished parts repaired by Sensus is ninety (90) days from the date of shipment, unless repaired pursuant to a warranty, in which case the repair is warranted for the time remaining of the original warranty period.

   d. Sensus warrants the standalone Sensus gas SmartPoint Modules as set forth in the "G500" warranty, as set forth at xylem.com, or available at 1-800-638-3748.

4. **Water Meters and Water SmartPoint Modules.** Sensus warrants the Sensus water meters and Sensus water SmartPoint Modules as set forth in the "G500" warranty, as set forth at: xylem.com, or available at 1-800-638-3748.

5. **VantagePoint® Lighting Control Module.** Sensus warrants the Sensus VantagePoint® Lighting Control Module to be in compliance with their respective specifications under normal use and service, and to be free from material defects in materials and workmanship for a warranty period of ten (10) years from the date of shipment. The warranty period for new spare parts and components sold by Sensus is twelve (12) months from the date of shipment. The warranty period for repaired or refurbished parts repaired by Sensus is ninety (90) days from the date of shipment, unless repaired pursuant to a warranty, in which case the repair is warranted for the time remaining of the original warranty period.

6. **DA Devices and HAN Devices.** Sensus warrants the Sensus DA Devices and Sensus HAN Devices to be in compliance with their respective specifications under normal use and service, and to be free from material defects in materials and workmanship for a warranty period of twelve (12) months from the date of shipment. The warranty period for new spare parts and components sold by Sensus is twelve (12) months from the date of shipment. The warranty period for repaired or refurbished parts repaired by Sensus is ninety (90) days from the date of shipment, unless repaired pursuant to a warranty, in which case the repair is warranted for the time remaining of the original warranty period.

7. **RF Field Equipment.** Sensus warrants the Sensus RF Field Equipment to be in compliance with their respective specifications under normal use and service, and to be free from material defects in materials and workmanship for a warranty period of twelve (12) months from the date of shipment.

8. **Server Hardware.** Sensus provides no warranty on the Server Hardware.

9. **Third Party Goods.** Notwithstanding anything to the contrary herein, Sensus does not warrant any goods manufactured or software supplied by third parties. For example, if Customer elects to buy meters from a third party, the Sensus SmartPoint Modules installed in such third party meters shall, subject to Section 11, below, be covered by the warranty above, but any warranty on the meter itself shall be a matter directly between Customer and such third party meter supplier.

10. **Services.** Sensus warrants that its services shall, at the time of performance, materially conform to the contract requirements, and shall be performed in a professional and workmanlike manner, free from material defects in workmanship.

11. **Remedy.**

   a. If any Field Device or RF Field Equipment fails during the applicable warranty period (a "Failed Good"), Sensus' obligation, and Customer's exclusive remedy, is, at Sensus' option, to either (i) repair or replace the Failed Good, provided the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the Failed Good (as instructed by Sensus). In all cases, Customer shall be responsible for returning the Failed Good to Sensus, including all costs associated with the return of the Failed Good, and Sensus shall be responsible for shipping the repaired or replaced good back to Customer's warehouse. Customer shall, in all cases, be responsible for the In/Out Costs. If Sensus determines that the returned good is not defective, Customer shall pay and/or reimburse Sensus for all expenses incurred by Sensus in the examination of the returned good.

   b. Customer's remedy under the warranty for services shall be, at Sensus' sole cost and expense, to correct or re-perform any defective or non-conforming services to assure compliance with the contract requirements.

   c. THIS SECTION 11 SETS FORTH CUSTOMER'S SOLE REMEDY WITH RESPECT TO A FAILED GOOD OR ANY DEFECTIVE OR NON-CONFORMING SERVICE.

12. **Warranty Exceptions and No Implied Warranties**. This Sensus General Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus General Limited Warranty do not apply to, and Sensus has no liability for, goods that have been: installed improperly or in non-recommended installations; installed to a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted, altered, damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions."). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

THE WARRANTIES SET FORTH IN THIS SENSUS GENERAL LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS SENSUS GENERAL LIMITED WARRANTY OR WITH THE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SOFTWARE SERVICES, AND OTHER SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

13. **Limitation of Liability**

   a. SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

   b. AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) MANUAL METER READ COSTS AND EXPENSES.

   c. The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

   d. To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.

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14. **Definitions**. Any terms used in this General Limited Warranty as defined terms, and which are not defined herein, shall have the meanings given to those terms in the Terms of Sale.

    a. "Agreement" means this General Limited Warranty, Customer's purchase order (except any Additional Terms), Sensus' Acknowledgement Form (if any), Sensus' invoice and the Terms of Sale.

    b. "DA Devices" means RTMs and RTUs.

    c. "Echo Transceiver" (formerly "FlexNet Network Portal" and "FNP") identifies the Sensus standalone, mounted relay device that takes the radio frequency readings from the SmartPoint Modules and relays them by radio frequency to the relevant FlexNet Base Station.

    d. "End User" means any end user of electricity/water/gas that pays Customer for the consumption of electricity/water/gas, as applicable.

    e. "Equipment" means the Field Devices, RF Field Equipment, Server Hardware, and any other goods sold hereunder.

    f. "FlexNet Base Station" (formerly "Tower Gateway Base Station" and "TGB") identifies the Sensus manufactured device consisting of one transceiver, to be located on a tower that receives readings from the SmartPoint Modules (either directly or via an Echo Transceiver) by radio frequency and passes those readings to the RNI by TCP/IP backhaul communication.

    g. "Field Devices" means the meters, SmartPoint Modules, DA Devices and HAN Devices.

    h. "Force Majeure" shall have the meaning set forth in the Terms of Sale.

    i. "HAN Devices" means the PCTs, IHDs and LCMs.

    j. "IHDs" means the in-home displays.

    k. "In/Out Costs" means any costs and expenses incurred by Customer in transporting goods between its warehouse and its End User's premises and any costs and expenses incurred by Customer in installing, uninstalling and removing goods.

    l. "LCMs" means the load control modules.

    m. "PCTs" means the programmable controllable thermostats.

    n. "Remote Transceiver" (formerly "FlexNet Remote Portal" and "FRP") identifies the Sensus standalone, mounted relay device that takes the radio frequency readings from the SmartPoint Modules and relays them directly to the RNI by TCP/IP backhaul communication.

    o. "RNI" identifies the regional network interfaces consisting of hardware and software used to gather, store, and report data collected by the FlexNet Base Stations from the SmartPoint Modules.

    p. "RF Field Equipment" means, collectively, FlexNet Base Stations, Echo Transceivers and Remote Transceivers.

    q. "RTMs" means the telemetric remote telemetry modules.

    r. "RTUs" means telemetric MicroRTU (T866).

    s. "Server Hardware" means the RNI hardware and the FlexServer hardware.

    t. SmartPoint™ Modules" identifies the Sensus transmission devices installed on devices such as meters, distribution automation equipment, lighting fixtures, and demand/response devices located at Customer's End Users' premises that take the readings of the devices and transmit those readings by radio frequency to the relevant FlexNet Base Station, Remote Transceiver or Echo Transceiver.

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SERVICES BRIEF

Sensus Extended Warranty Program FlexNet™ Infrastructure

Hundreds of utilities across North America have adopted the Sensus FlexNet™ system. This technology empowers electricity, gas, water or combination utilities to conserve resources through a flexible, reliable and open system. The FlexNet communications network quickly becomes a critical part of our customers' day-to-day business, which is why it is important to ensure your network equipment is always online and operating at the highest level.

The FlexNet™ Extended Warranty Program provides utilities peace of mind, knowing that Sensus technical support professionals are ready to diagnose, troubleshoot, or send out replacement parts at no cost. This keeps your utility's critical infrastructure up and running, limiting your network's downtime.

Participation and Coverage

The Extended Warranty Program is available for purchase any time before the initial standard one year warranty expires. The standard one-year warranty begins from the date of shipment, which establishes the anniversary date. New FlexNet system customers receive the standard warranty free of charge until the first anniversary date. Base station extended warranty includes firmware maintenance/upgrades, remote diagnostics of operational issues, and repair or replacement of defective parts or units. Warranty does not include batteries, labor, travel, or standard maintenance. Participation in the Extended Warranty Program is strongly recommended to maintain the highest level of business continuity within your utility.

INCLUDED SERVICES	S50/S100 D50/D100	M400B/M400B2 M400DS/M400D	R100NA
Firmware Updates*	✓	✓	✓
Remote Diagnostics of Operational Issues	✓	✓	✓
Repair or Replace Defective Parts or Units**	✓	✓	✓

*Installation is not included.
**Labor (Travel and Expenses) and batteries are not included.

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Extended Warranty Terms

- Customer may opt to purchase extended warranties at any time during the period that the initial standard warranty is in effect. Extended warranties are not available after the initial standard warranty has expired.
- Extended warranties are an optional service. Products have a standard warranty with the initial purchase. Extended warranties, if purchased, will go into effect following the expiration date of the standard warranty. Standard warranty plus any extended warranties purchased may not exceed five (5) years from date of shipment. Any repairs after five (5) years from date of shipment will be invoiced at current repair rates.
- Base station extended warranty includes firmware maintenance/upgrades, remote diagnostics of operational issues, and repair or replacement of defective parts or units. Warranty does not include batteries, labor, travel, or standard maintenance. Warranty does not cover "acts of God."
- Labor, travel and expense will be quoted per warranty incident as necessary.
- Above equipment comes standard with one year warranty from date of initial purchase.
- Extended Warranty is only available for up to 5 years from date of purchase.
- Please refer to Sensus' G500 for terms and conditions pertaining to standard warranties.

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8601 Six Forks Rd, Ste 700
Raleigh, NC 27615
1-800-638-3748
sensus.com

SO-C-SVS-0003-0701-03-A

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ATTACHMENT O: SYSTEM TEST FIXTURE USER GUIDE

Version History

Version	Contributor	Comments
0.1	K. Olschner	Initial Version
0.2	K.Olschner	Updated pictures

Introduction

This user guide is intended to outline the basic operating procedure for the water meter test cart. This guide contains setup, operation, and maintenance for normal operation using three water meters. Please use common safety procedures while operating, ensuring leaks are not present and all electrical connections are protected.

Water Cart Components

Water Reservoir: The water reservoir contains an 800 GPH submersible pump. Warning, this pump is NOT designed to be run dry, please ensure that the reservoir is adequately full prior to operation.

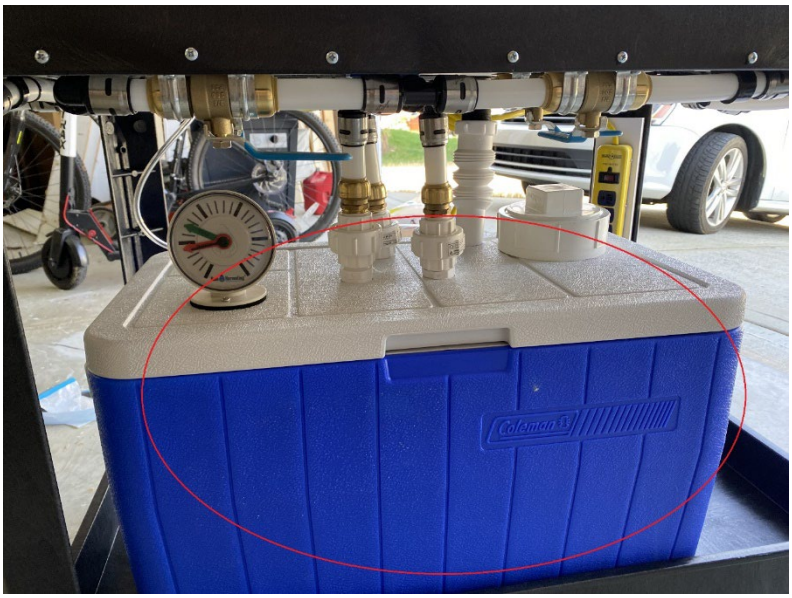


Figure 1 Water Cart Reservoir

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Figure 2 Water Pump

Connections: The pump outlet and draining connections are quick connect incase the pump or reservoir needs to be removed. The following connections are identified in Figure 3:

- Connection 1: Air Bleeder Hose Drainage
- Connection 2: Reverse flow Drainage
- Connection 3: Top Cart Drainage
- Connection 4: Water Pump Outlet
- Connection 5: Forward Flow Drainage

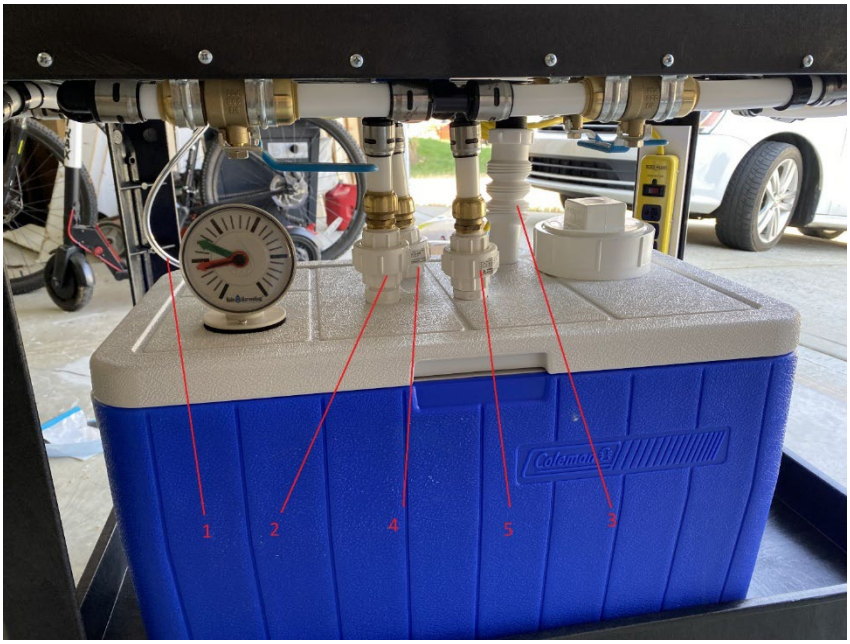


Figure 3 Water Cart Connections

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Fill Cap: The fill cap is labeled in Figure 4 can be used to fill the reservoir using a water hose. Attention should be paid as to not overfill the reservoir.

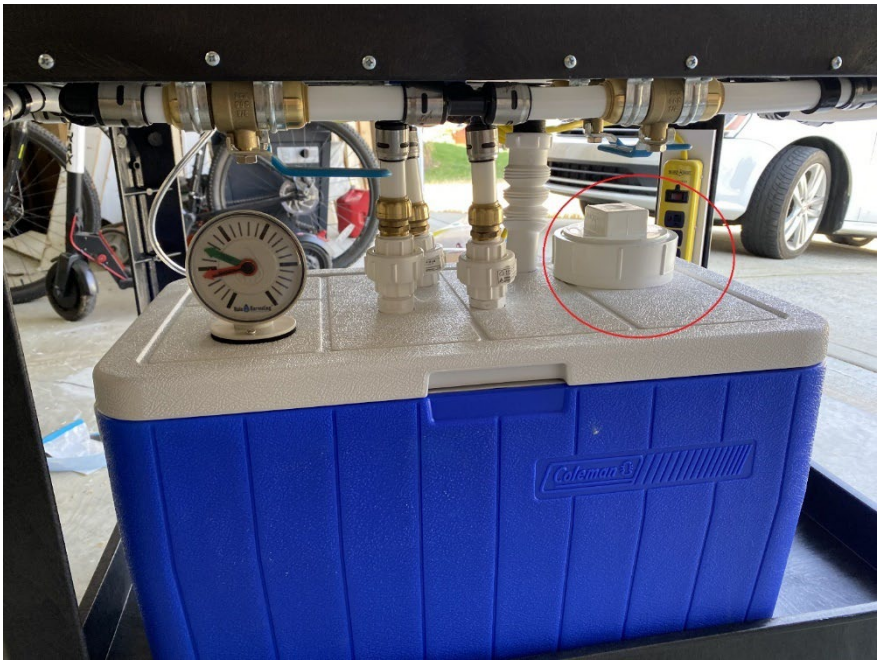
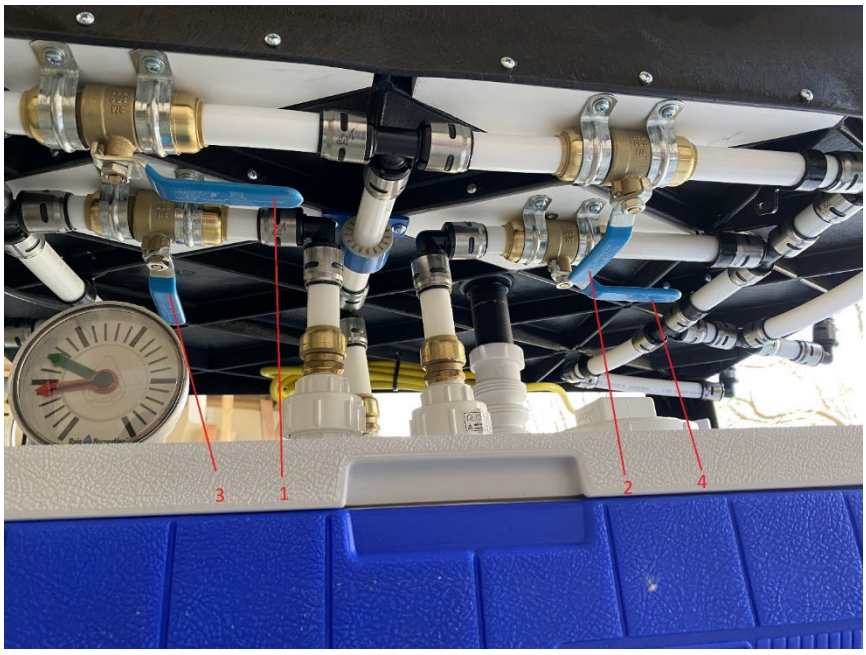


Figure 4 Fill Cap

Directional Valves: The directional valves are located under the cart (detailed in Figure 5), and are used to set the water flow to either forward or reverse flow. *Caution: Pay close attention to the directional valve orientation as to not cause excessive pressure on the system.*



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Air Bleeder Valves: The water cart has been outfitted with bleeder valves to make air expulsion easier during operation (Figure 6).

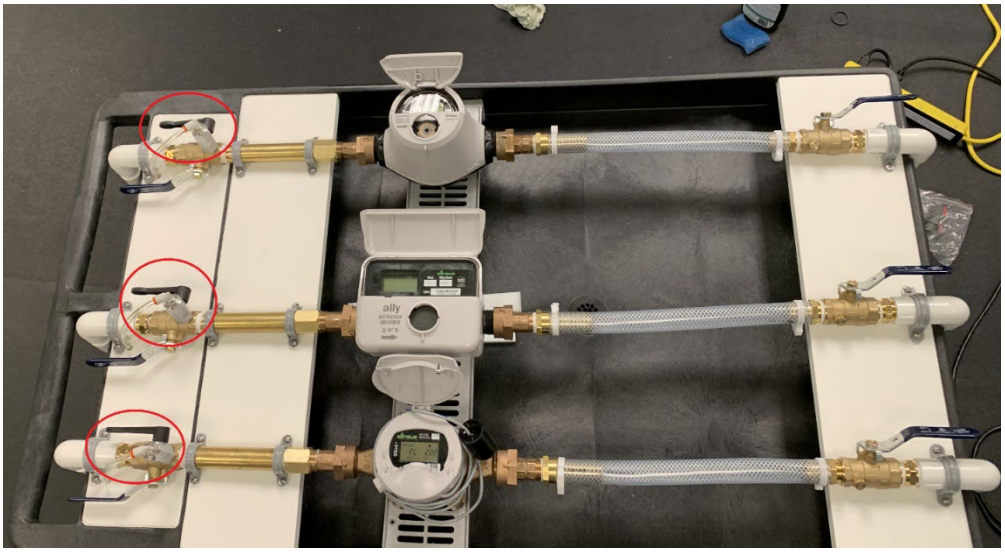


Figure 6 Air Bleeder Valves

Water Flow Valves: The Flow valves located on top (both sides) of the water cart are used to control the flow of water to each meter (Identified in Figure 7).

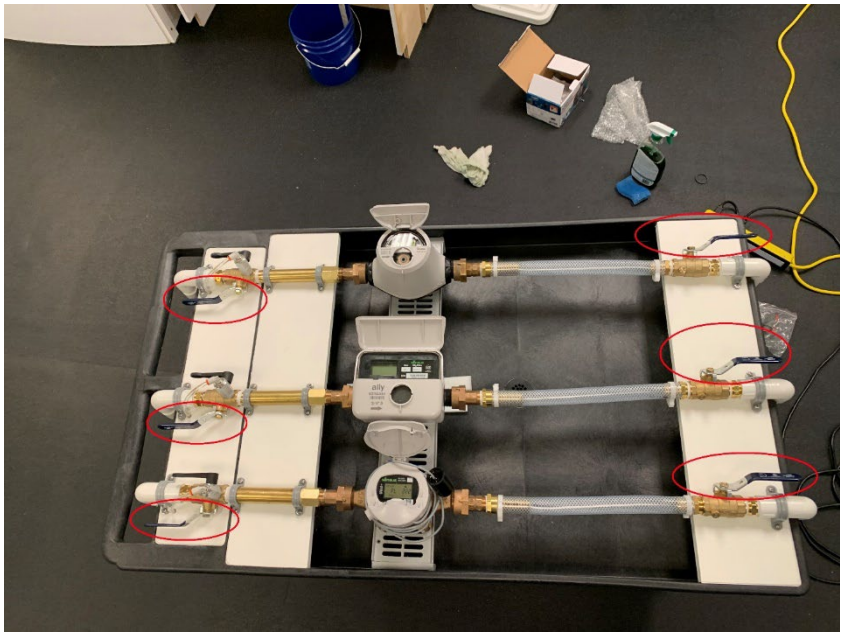


Figure 7 Flow Valves

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Meter Connections: The water cart includes connections for a maximum of three meters to simultaneously be used at once. The connections are for ¾” pipe size on a 7” lay length meter.

Directional Valve Configuration

The following chart outlines the directional valve configuration for forward and reverse flow. Please refer to the **Directional Valves**: section of this document for details on the location, identification, and purpose of each valve.

Forward Flow		Reverse Flow	
Valve Number	Valve Position	Valve Number	Valve Position
1	OPEN	1	CLOSED
2	CLOSED	2	OPEN
3	CLOSED	3	OPEN
4	OPEN	4	CLOSED

Operation

Setup

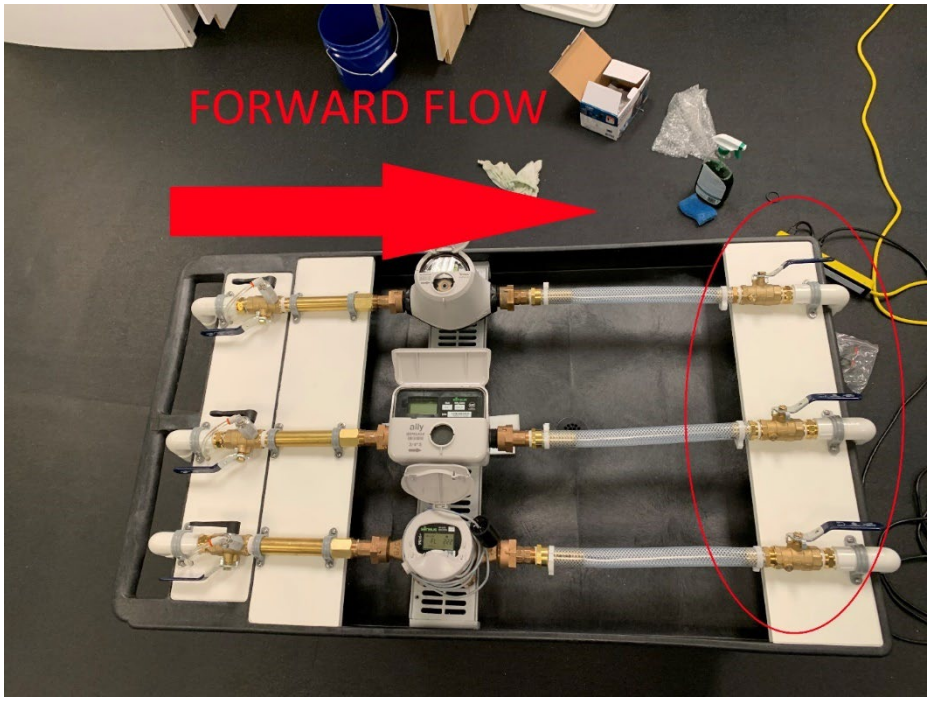
The following procedure should be followed for operation of the water cart in forward or reverse flow configurations. Please refer to the Water Cart Components section of this document for location, identification, and purpose of each component.

- **Step 1)** Ensure the water reservoir drain is closed.
- **Step 2)** Follow the **Directional Valve Configuration** section of this document for forward and reverse flow. Set the valve to the desired configuration.
- **Step 3)** Configure the flow valves on top of the cart to either the on or off position.
  - For water meters connections that are being used, set the corresponding flow valves to the **OPEN** position.
  - For water meter connections not being used, please ensure both valves corresponding to that meter connection are set to the **CLOSED** POSITION.
- **Step 4)** Place the water meters are the silver grate. Please ensure rubber washers are used with each connection *Note: The Ally meter should be placed in the center meter connection.*
- **Step 5)** Set each air bleeder valve to the CLOSED position.
- **Step 6)** Fill the water reservoir with water. Caution, the water level is difficult to determine so be mindful that there is enough water to submerge the pump during operation.
- **Step 7)** Plug the power strip located on the side of the cart into an electrical outlet. *Note: The pump should be plugged into the power strip.*
- **Step 8)** Flip the power switch on the power strip thus turning on the submerged pump.

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- **Step 9)** Once the pump is started, examine the following for leaks, if any leaks are noticed, unplug the electrical connection immediately and address the leak:
  - Water reservoir quick connections
  - PVC piping throughout the undercarriage of the water cart.
  - PVC to brass fittings
  - Flow Valve connections
  - Air bleeder valve connections
  - Water Meter connections
  - Nipple hose connections
- **Step 10)** With the pump running, locate the flow valve that is AFTER the meter in the direction of the flow.
  - Forward Flow: Figure 8 [Flow Valve Identification]: Forward Flow
  - Reverse Flow: Figure 9 [Flow Valve Identification]: Reverse Flow

Figure 8 [Flow Valve Identification]: Forward Flow



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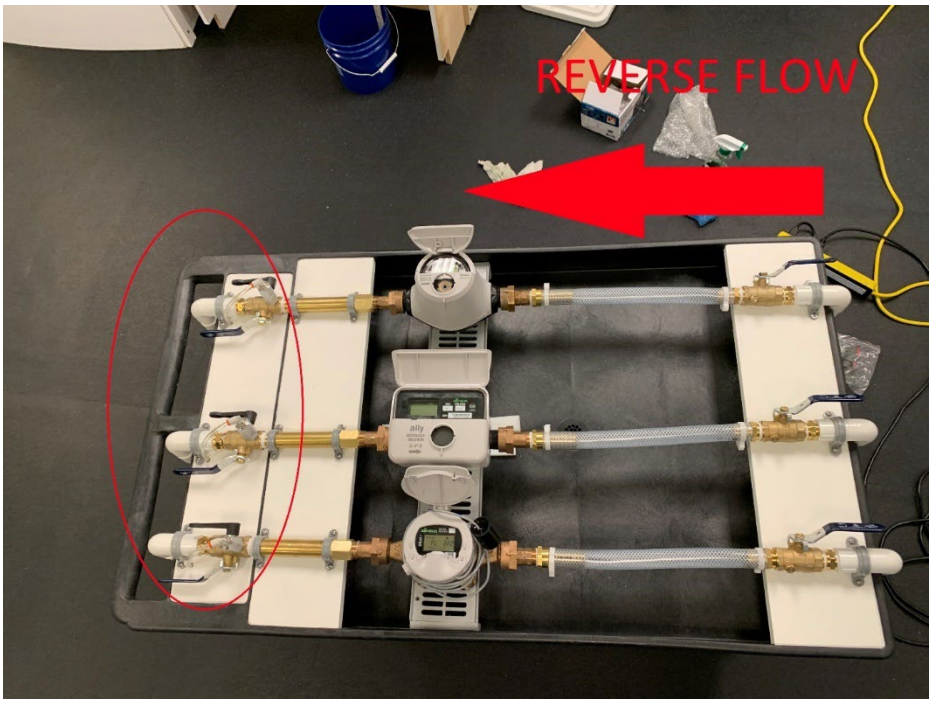


Figure 9 [Flow Valve Identification]: Reverse Flow

- **Step 11)** With the desired flow set, set the air bleeder valves to OPEN for approximately 10 seconds.
- **Step 12)** Set the air bleeder valves to CLOSED.
- **Step 13)** Re-examine the fixture for leaks, refer to Step 9 for components.
- *Note: To prevent unnecessary pressure on the system, never set the directional valves when the pump is on. Repeat this procedure if a change in the direction of the water flow is desired.*

Teardown

The following procedure should be followed for tear down and storage of the water cart. Please refer to the **Water Cart Components** section of this document for location, identification, and purpose of each component.

- **Step 1)** Power off and unplug power strip.
- **Step 2)** Set ALL valves (Air bleeder valves, directional valves, and flow valves) to OPEN.
- **Step 3)** Remove ALL meters from the cart.
- **Step 4)** Wheel the cart to a location where the water can be drained.
- **Step 5)** Attach a water hose to the drain plug located on the water reservoir.
- **Step 6)** Drain the water from the reservoir.
- **Step 7)** For long term storage, it may be necessary to remove the water reservoir completely to completely dry.

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ATTACHMENT P: BERMEX ATTACHMENTS

- AMI Installation Scope
- AMI Field Technician Training Course Outline
- Bermex SOP – Quality Control
- Bermex Door Hanger
- VPie Overview
- Vpie QA

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AMI Deployment Project

Bermex Inc.

PART ONE. GENERAL

Bermex Inc. will provide the following Services for the Project which are categorized and described as follows:

(a). Project Planning Services and Data Deliverables;

(b). Meter Change Services and Deliverables;

(c). Exceptions and Customer Complaints Services and Deliverables;

Bermex Inc. will perform the Services as described in Sections 1 through 3 below, the **"Services Requirements".**

1. PROJECT PLANNING SERVICES AND DATA DELIVERABLES

Bermex Inc. Project management and data Services will include:

A. Project Management and Logistics

(i). Project Management - Bermex Inc. will provide all Project management functions necessary to provide detailed Project timelines, manage and schedule field Personnel and routes, manage equipment inventory, and investigate any discrepancies associated with the meter change data.

(ii). Manage all Scheduling and Routing of Meter Change Services - Bermex Inc is responsible for the scheduling and routing of all field Services activities and weekly schedules.Bermex Inc will provide a Weekly Installation Schedule to Utility weekly prior to the field Services being performed.

(iii). Ensure that all Change Services are Performed Off-Cycle - Bermex Inc will ensure that all meter change field Services are completed 'Off-Cycle' if applicable and that all change-out data is received by Utility personnel prior to the opening of the Cycle Billing Window. Black out periods will be discussed prior to establishing deployment schedule.

B. Data Services

Bermex Inc. will provide all electronic collection devices and software necessary to properly document the meter and/or register change-out Services. At a minimum, each handheld device will include or provide the following functions:

- Barcode Scanners – All bar-coded meters and/or registers, both old and new, will be scanned if applicable, to minimize data collection errors.
- GPS Receivers – Have an integrated GPS receiver that is directly read by the collection software to ensure proper collection of GPS coordinates. GPS collection accuracy shall be 3 meters or less depending on utility specifications.
- Provisions for Collecting GPS Coordinates at Indoor Locations – Have provisions to allow GPS coordinates including X/Y and floor number in the event a multi-story building's meter and or registers are indoors.
- Redundant Data Storage – A redundant data storage method to ensure that the loss of data is minimized should a handheld device fail to operate or is damaged. If installation data is lost, the data will be re-acquired by any means possible within 24 hours of the installation.
- User Tracking – Track each user with a unique sign-on.
- Validation of Meter Readings – Perform advanced validations of collected data to ensure the accuracy of the data on-site.
- Inventory Control – Perform inventory control functions to identify where each new meter

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and/or register is located and to prevent the same meter and/or register from being listed at multiple locations.

- Detailed Electronic Comments Capabilities – Be capable of allowing detailed comments tobe reported with each meter and/or register change-out record.
- Date and Time Stamp Each Change – Each change-out record will be time-stamped with the date and time that the service was started and completed.
- Provision of Data – Have the ability to provide data for all meter or register types.
- Radio Verification – Have the ability to accommodate the technology of choice radio verification device via Bluetooth connectivity.

C. Data Support Services

Bermex Inc will provide the IT staffing necessary to provide the turnkey data processing functions listed below:

- Remote Electronic Method to Transfer Data (Preferred Method) – Meter change-out data will be transferred electronically from the individual handheld devices in the field to the back office as the meter or register change occurs.
- Validation Processes to Ensure Accuracy of Collected Data – Advanced validation processes will be employed to ensure the accuracy of the meter and/or register change-out data.
- Utilize the Secure FTP Site for Data Dissemination to and from Utility - Bermex Incwill utilize a secure FTP location for the transfer of data to and from Utility.
- Ability to Accept and Process Data in any Format – Bermex Inc will accept and process data in the format provided by Utility.
- Provide Meter Change-out Data in Approved Formats the Next Day – All meter and/or register change-out data will be validated and posted, in the required format, by12:00 noon the day after the change-out Service was performed.
- Provide Project Summary Status and Exceptions Reports on a Daily Basis – All data collected in the field will be available via the customer web portal daily for review.
- Provide Inventory Summary Status Reports on a Daily Basis – If applicable Bermex shall provide access via the customer web portal the visibility to see current inventory of each meter type and/or register type.

D. Data Confidentiality

Bermex Inc acknowledges that it will have access to confidential information regarding Utilityand Utility customers in order to perform the Services. Bermex Inc will emphasize this requirement to all Personnel when they start performing the Services and will periodically remind all Personnel.

2. METER CHANGE SERVICES AND DELIVERABLES

Bermex Inc. meter and/or register change and removal Services will be performed by Bermex Inc. field Personnel (collectively referenced here as **"Representatives,"** regardless of the individual's job title and will include:

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A. Representatives and Vehicles

(i). Change All Meter, Register, or Module Types - Bermex Inc' Representatives will be qualified to perform meter change-out and field-testing Services for all types of meters used by Utility during the term of this Project.

(ii). Professional Appearance – Representatives will wear a company shirt and pants. Company shirts will have Bermex Inc' name or logo. All Representatives will be well groomed and present themselves professionally to Utility customers.

(iii). Identification Badge - Utility will provide a "Utility ID" badge (with name and photo) for each Representative, which badge will be worn and clearly visible at all times when performing the Services. If a badge is lost, the Representative will immediately notify Bermex Inc and Bermex Inc will contact Utility to have the badge voided. Bermex Inc will be responsible for facilitating the Representative's procurement of a replacement badge. No Representative may perform field Services without the Representative's Utility ID badge (regardless of the reason). Bermex Inc will emphasize to all Representatives the importance of maintaining possession of the badge at all times.

(iv). PPE in Good Condition – All Representatives will wear the appropriate Personal Protective Equipment (PPE) necessary to perform safely the meter change-out and repair Services if applicable. All PPE will be in a clean and safe condition. PPE may include the following: Hard Hat, Overshoes or dielectric, Low Voltage Gloves, Eye Protection and Flame-Resistant Shirt and/orJacket. Any PPE will meet applicable O.S.H.A. requirements.

(v). Company Vehicles Permanently Marked – All Bermex Inc vehicles will be permanently marked with the Company name and/or logo. All vehicles will be marked with specific lettering or numbering that uniquely identifies each vehicle. Bermex Inc will provide Utility with a list of the vehicles that will be used in performing the Services and provide quarterly updates regarding any changes. All vehicles used to perform these Services will be Bermex Inc owned/leased vehicles.

B. Services and Tasks at Customer Premises

(i). Customer Relations - Bermex Inc acknowledges that Utility's relations with Utility's customers and with the public are of utmost importance. All Representatives will be courteous in all communications and interaction with Utility's customers and the public encountered during performance of Services for this Project.

(ii). Customer Notification Procedure – When a Representative arrives at a customer's premises, and before performing any meter change or other Services, the Representative will notify the customer/occupant and give the customer/occupant time to disconnect electronic equipment, such as computers, turn off water etc, if desired. Representative will also notify customer of need for entry for pilot relighting if applicable. Bermex Inc' Representatives will follow the following **"Customer Notification Procedure"** at each customer's premises:

(a). Immediately upon arrival at the premises, attempt to alert the customer/occupant of Representative's presence by knocking or ringing at the front door;

(b). Wait for approximately one minute;

(c). If no one answers, proceed to perform the Services at the premises;

(d). If someone answers, Representative will:

- Identify himself/herself using the Utility-issued identification;
- Identify the Services to be performed;
- Indicate there will be a temporary interruption of service;
- If customer/occupant does not object to performance of the Services, Representative will:

  (a). Allow the customer/occupant adequate time to shut down equipment;

  (b). Explain that he/she will wait at the door until given approval to proceed;

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(c). Wait for verbal agreement from customer/occupant before proceeding; and

(d). Perform Services at the premises.

(e). Enter premise and relight pilots and follow appropriate compliance checks.

- If customer/occupant denies permission for the Services, Representative will note the exception in the handheld device and proceed to next Work Site.

(f). This Customer Notification Procedure will be followed each and every time a Representative or other member of Bermex Inc Personnel visits a customer premises. All Bermex Inc Representatives and Personnel are to be reminded periodically that they are working on private property and will always treat customers and their property with respect.

(iii). **Meter, Register, Module Inspection, Change, and Removal Procedure** – Once the customer/occupant gives permission for change Services to proceed, or if there is no response to the knock/doorbell per the Customer Notification Procedure, Representative will proceed with the Services as follows:

(a). Confirm the database information (e.g., match between premises address, meter number, and approximate meter reading if applicable). If the data do not match, Representative will knock/ring the doorbell at the front door to notify the customer/occupant (if present) and report this location as an exception per *"Rework Exceptions Handling"* in Section 3 A below;

(b). Please refer to Bermex specific exchange procedures for detailed exchange, removal, and/or upgrade procedures per service type.

(c). **Stand-by for Life/Safety Situation Requiring Immediate Utility Response** – If an unsafe or hazardous condition (e.g., missing meter can lid, broken blocks, broken jaws, heated jaws, exposed conductor, severe corrosion, gas leak, diversion, etc.) is identified during any visual inspection that is considered "**immediately hazardous"** or "**an immediate threat to life or safety,"** Representative will contact Utility promptly. Representative will secure the site, stand by at the premises until Utility has terminated temporarily the service or has taken other action to render the premises safe, and will note the problem in the handheld. Representative will complete the change or repair if notified by UTILITY that it is safe to do so. If the change or repair cannot be completed at that time, Representative will note the exception in the handheld and proceed to the next Work Site.

(d). If an issue is identified during any visual inspection that should be addressed by the customer (or others) but is considered "not immediately hazardous" (e.g., any gas AOC, water leak, broken register, bent or damaged entrance cable mast, tree limb on entrance cable, etc.) and Representative reasonably believes that the meter and/or register change can be completed safely, Representative will note the issue in the handheld and complete the exchange.

(iv). **Meter Change Confirmation** – When the new meter, register, or module is installed, Representative will verify that the meter, register, or module is active, and enter the new meter information into the handheld device.

(v). **Cleanup** – Upon conclusion of Services at each customer's premises, Representative will gather and remove all equipment, materials, and debris resulting from the Services. Representative will pick up and destroy all used seals, excess dirt and debris, etc., found at the premises or used in the installation. All equipment, materials, and debris will be disposed of in accordance with Legal Requirements.

(vi). **Door Hanger Notice for Services performed in Customer's Absence** - If no one answered the door when Representative arrived and Representative was able to complete the exchange, Representative will leave a door hanger (provided by Utility) on the front door notifying the customer that the meter was changed.

(vii). **Door Hanger Notice for Rework/Exceptions** - If Representative cannot change out the meter or device, Representative will leave a door hanger (provided by Utility) requesting customer to contact Bermex Inc for a return visit.

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3. EXCEPTION AND CUSTOMER COMPLAINT SERVICES AND DELIVERABLES

Bermex Inc' exception and customer complaint Services will include:

A. Call Center Operations, Exceptions Rework and Customer Complaints

(i). **Rework Exceptions Handling** - Bermex Inc will provide all Call Center functions necessary to provide re-scheduling of meter change-out exception locations that require appointments for reasons such as Unable to Locate (incorrect address data, obstruction, no meter found, no meter available), Bad Dog, Locked Gate, Customer Unable to Take Unscheduled Outage, Customer/Occupant Withholds Permission, Unsafe Condition, Damage (e.g., requiring work by customer), etc.

(ii). **Call Center Staffing** - Bermex Inc will provide the Call Center staffing necessary to provide adequate customer service to field customer calls during and after business hours.

(iii). **Remote Electronic Method to Schedule** – Bermex Inc will utilize web-based Internet scheduling systems to allow customers an automated method to schedule the re-visit to their premises.

(iv). **Service Timeliness** – Exception Services will be scheduled by Bermex Inc in a timely manner to ensure that they are completed within five business days from the date that the customer contacts the Call Center. Exceptions to the five-business day window will be made for premises that are within a Utility Billing Window, which premises will be serviced within five business days after the Utility Billing Window opens.

(v). **Unable to Locate/Bad Address** – Utility will provide Bermex Inc with detailed location directions and/or valid street addresses for all "Unable to Locate" exceptions. Bermex Inc will complete these in a timely manner to ensure that they are completed within five business days from the date that the updated information is provided to Bermex Inc. Exceptions to the five-business day window will be made for premises that are within a Utility Billing Window, which premises will be serviced within five business days after the Utility Billing Window opens.

(vi). **Customer Complaint Issue Resolution** – Bermex Inc will notify Utility promptly of any communication or coordination issue with a customer. Bermex Inc will investigate any Utility customer complaint arising out of Bermex Inc' Services. Bermex Inc will keep Utility informed regarding these complaints and will provide to designated Utility personnel, in a timely manner, a written report detailing the nature of each complaint and the actions taken to resolve the matter. If the investigation shows that the problem arose from an act of nature or something other than an action or inaction of Bermex Inc, the matter will be reported to Utility for resolution.

B. Field Operations Group

Field Service Activities: Bermex Inc' field operations group will handle field service activities: meter change outs, and exceptions re-work. The field technician Personnel will be structured into service modules. Each service module will consist of a Working AMI Supervisor, an Exception Technician, and up to ten Field Technicians. Bermex Inc will monitor efficiencies and productivity by sub-project. All Bermex Inc field personnel will be assigned a company vehicle. Field Technicians will be equipped with a compact pickup truck with a secure enclosure. All vehicles will be equipped with a real-time GPS tracking system to monitor the vehicles' location and speed.

AMI Supervisor: AMI Supervisor is responsible for ensuring that the Supervisor's team of technicians is equipped to perform safely and efficiently their job tasks within the designated service area. The AMI Supervisor is a working supervisor (after assigning daily tasks and resolving any field service issues, the Supervisor will perform quality audits on meter and/or module/register changes, exceptions and re-visits, to ensure all quality standards are met.

Technician Training: Every effort will be made to service each Utility customer location in a safe and professional manner. Every Bermex Inc technician will be certified by Bermex Inc' Safety,Service, and Field Service training programs. Training outlines are provided upon request.

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AMI FIELD TECHNICIAN TRAINING COURSE OUTLINE

AMI Field Technician Course Outline - Version 7.0

Course Overview and Approach

Courseware consists of an Instructor Presentation, Student Workbooks and Handout Exercises with a heavy emphasis on Safety and Quality. Written testing is performed after each Module. Classroom and Hands-on Lab time changing out meters is split 50/50. Attendees must pass a closed book Final Certification Written Exam and Hands-on Practical Exam before transitioning to the field. Classroom/Lab Course length is five (5) days or longer depending on number of attendees. Following formal training, AMI Techs are paired up with a Field Mentor for one to two weeks before receiving management sign-off to work alone. Portions of the course are customized to meet Utility specific requirements.

Course Purpose and Objectives:

- Purpose: To train personnel to become qualified AMI Field Technicians.

At the end of this course attendees will be able to:

- State Bermex Services Mission and Values and describe how to apply them in the field
- Describe safety procedures, explain why they are important and demonstrate proper use of Personal Protective Equipment (PPE)
- List Field Work-Flow Processes and Procedures
- Describe Power Grid components, electronic circuit components, and Calculate power usage
- Identify different kinds of Meters and list Form Types, Classes and Base Voltage requirements for each
- Demonstrate ability to change out meters while following safety procedures and entering required information into the Hand-held Computer
- Pass tests relating to Vehicle Safety
- List Techniques for creating Positive Customer Perceptions
- Demonstrate ability to perform Meter Base Inspections
- Demonstrate ability to do Level One Meter Base Repairs
- Pass Final Written and Practical Certification Examinations before transitioning to the field

Course Outline by Module

- Module One – Safety, Company Introduction and Job Role
- Module Two – Meter Reading
- Module Three – Power Transmission Grid and Electricity Basics
- Module Four – Using the Handheld Computer
- Module Five – Safety
- Module Six – Working with Self Enclosed Meters
  - Hands on Lab Exercise – Removing and Installing Self Enclosed Meters
- Module Seven - Working with Commercial Meters – Demand Meter Readings
  - Hands on Lab Exercise – Removing and Installing Commercial Meters

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- Module Eight – Utility Specific Procedures
- Module Nine – Handling Workflow Exceptions
- Module Ten – Customer Relationships
  - Hands On Practice Changing Out Meters
- Module Eleven – Working Smart in the Field
  - Site Inspections – Working Efficiently - Ensuring Safety
- Module Twelve – Performing Repairs
  - Hands on Lab Exercise
- Module Thirteen – Handling Inventory and Ensuring Quality
  - Hands On Practice Changing Out Meters
- Final Testing and Certification – Written, and Practical Application Test
- In-Field Training Working with Field Mentor
  - One to Two Weeks

Module One - Safety, Company Introduction and Job Role

- Company introduction
- Bermex Services Mission, and Values
- Applying Company Values at Work
- AMI Field Technician Role and Workflow
- Introduction – Styles of Old and New Meters
- Post Module Exercise and Test

Module Two - Meter Reading

- Meter Reading Basics
- Reading Rules and Guidelines
- Meter Reading Practice
- Post Module Exercise – Meter Reading Test

Module Three - Power Transmission Grid and Electricity Basics

- Power and Distribution Grids
- Smart Grid
- Electronic Components
- Basics of Electricity – Voltage, Current, Resistance
- Power Formulas
- Single and Polyphase Service and Wiring
- Calculating Voltage, Current and Power Usage
- Safety Basics – Working with Electricity
- Using the Volt-Ohm Meter
- Post Module Exercise and Test

Module Four – Using the Handheld Computer

- Menus, Screens and Buttons
- Image Manager Screen
- GPS Device connections

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- Initializing
- Capturing Meter GPS Locations
- Syncing and accessing work orders
- Uploading work and photos
- Post Module Exercise and Test

Module Five – Vehicle and Site Safety

- Requirements for using PPE
- Testing Safety Gloves for Leaks
- Rules for Operating Company Vehicles
- Safe Driving Presentation and Testing
- Safety Bulletin Review
- Safety Presentation
- ARC FLASH Definition and Causes
- Post Module Exercise and Test

Module Six - Working with Self Enclosed Meters

- Meter Enclosure Types
- Decoding Meter Nameplates - Form Types, Voltage Rating, Class, Wires, Kh
- Self-Contained Meter Definition
- Safety – Working on Training Meter Boards
- Meter Base Inspection Requirements
- Surge Suppressors, Locking Rings, Meter Rings and Seals
- Process for Changing Out Meters – Hand-held Screen Sequence Demo
- Taking Voltage Measurements - Voltage Tolerances
- Post Module Exercise and Test

Module Seven - Working with Commercial Meters – Demand Meter Readings

- Transformer Rated (CT) Meter Definition
- 5, 6, 7 and 13 Jaw Meter Bases
- 12S, 16S Delta and Wye Meter Forms and Voltage Comparisons
- Demand Meter Readings
- Delta and Wye Transformer Basics
- Self-Enclosed Commercial Meters
- Transformer Rated (CT) Meter Introduction – 3S, 4S,5S, 6S, 9S, 45S
- CT Testing Introduction
- Procedures for Changing Out Commercial self-enclosed and CT Meters
- Socket Adapters, Surge Suppressors, Extenders and Pullers
- Safety Tips when Working with Commercial Meters
- Post Module Exercise and Test

Module Eight - Utility Specific Procedures

- Customer Requirements – Notification and Contact Procedures
- Inventory Stocking Locations and Processes

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- Expected Meter Types
- Seal Colors, AS FOUND Seal Statuses, As LEFT Seal Statuses
- Unable to Service/ Strike Process - Door Hangers
- Utility Specific Service Bulletins
- Repair Procedures
- Reporting
- Post Module Exercise and Test

Module Nine – Handling Workflow Exceptions

- Knowing when to contact your supervisor
- Finding Out What Is Left to do on your Route/Cycle
- Unable to Service Points/Strikes in the Workflow Process
- Unable to Service/Strike Categories
- Selecting Codes and documenting Comments
- Post Module Exercise and Test

Module Ten - Customer Relationships

- Who is the Customer?
- Creating Positive Customer Perceptions
- Customer Notification Procedures
- What to Say and What Not to Say
- Leaving the Work Site in Better Condition than you found it
- Post Module Exercise and Test

Module Eleven – Working Smart in the Field

- Safety – Working at Customer Sites – Being mindful of surroundings
- Driving and Parking on Customer Property
- Performing Site Inspections – Identifying dangerous situations
- Meter Base Inspections and Identifying Theft
- Having Integrity when something goes wrong – Telling the Homeowner- Leaving a Note
- Improving Efficiency - Being Safe, Achieving High Quality and Productivity
- Loading and Unloading Vehicles - Working the Cycle/Route
- Effective Communication between Field Techs and Supervisor
- Reporting Unsafe Conditions and Accidents
- Post Module Exercise and Test

Module Twelve - Performing Repairs

- Importance of Standardizing Terminology
- Meter Socket Nomenclature
- Field Techs and Repair Tech Repair Roles
- Field Repairs
- AMI Project Meter Base Repair Process (if applicable)
- Post Module Exercise and Test

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Module Thirteen - Handling Inventory - Ensuring Quality in the Field

- Proper Handling of Old and New Inventory
- Rotating inventory in Vehicle – Loading and Off Loading
- Packing boxes
- Field Tracking Reports and Systems
- Ensuring Quality of Data – Data entry, Comments and Photos
- Working on Gangs of Meters – Apartments
- Post Module Exercise and Test

Final Written Certification Test

Field Mentor Assignments and Reporting Locations

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BERMEX
METERING SERVICES

Standard Operating Procedure – Quality Control

May 26, 2022

Bermex must utilize a rigorous field Quality Control "QC" program to ensure data integrity and installer capabilities. The quality control program utilizes the current handheld system so each Field Supervisor can audit their teams.

The field requirements are as follows:

Supervisors will inspect one hundred percent (100%) of all work orders completed by new hires for a period of five (5) working days from the date the installer begins field work (the "Training Period"). "New Hire" installation audits should occur within five (5) days of the installation. If an installer's installation errors are found to be in excess of one percent (1%), the installer shall be removed from the field and retrained.

After the training period, a five percent (5%) random sample of each installer's work orders will be audited on a monthly basis.

If, after the training period, an installer's critical installation errors are found to be in excess of one percent (1%) over a period of six weeks, the installer shall be removed from the field and retrained. All work performed by that installer during the two (2) days prior to the six week period shall be audited. If the audit results for those two days show a critical installation error of two percent (2%) or greater, all work performed by the installer in the last 30 days will be reviewed. A site visit audit will be attempted for each. Bermex and the utility will review the audit results and discuss further action as required.

Office procedures are as follows:

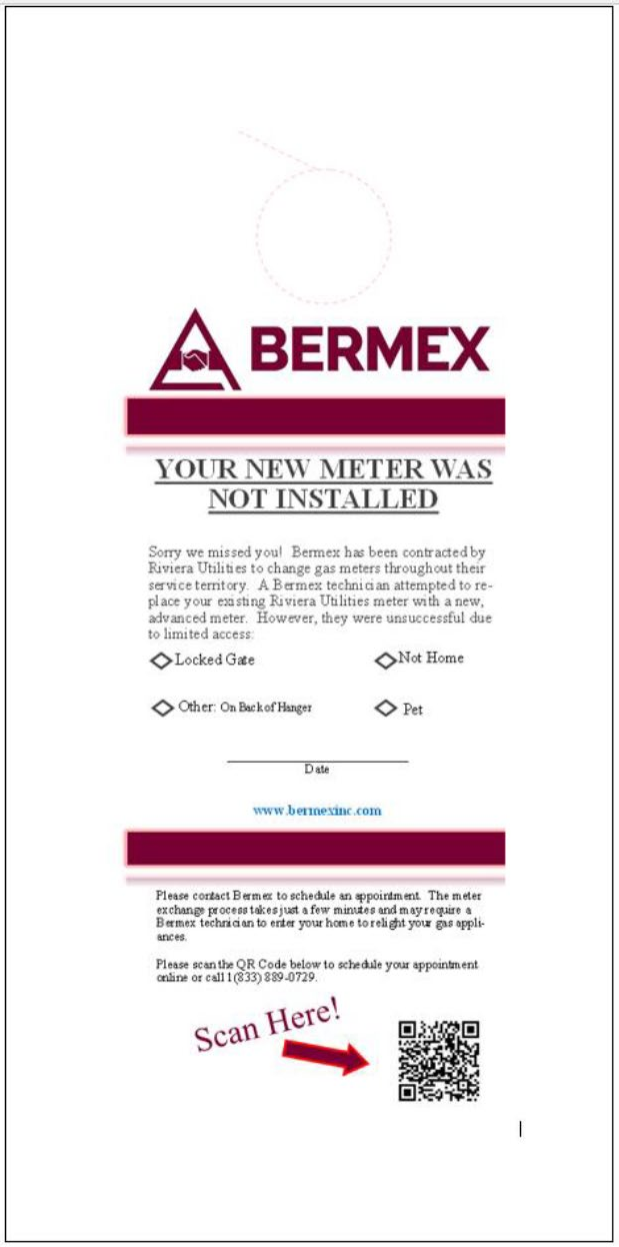
Data Analyst will record and report all errors discovered during data cleansing procedures. If a technician's error rate goes over one percent (1%) then the technician will be removed from the field and retrained on the area where the errors are being made.

Data Analyst will inspect one hundred percent (100%) of all pictures taken by new hires for a period of five (5) working days from the date the installer begins field work (the "Training Period"). The As Found Meter picture will be inspected for clarity, and to make sure the meter read and meter number are visible and readable. "New Hire" picture inspections should occur within five (5) days of the installation. If an installer's installation errors are found to be in excess of one percent (1%), the installer shall be removed from the fieldand retrained.

After the training period, a five percent (5%) random sample of each installer's pictures will be audited on a monthly basis.

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BERMEX DOOR HANGER EXAMPLE



BERMEX

YOUR NEW METER WAS NOT INSTALLED

Sorry we missed you! Bermex has been contracted by Riviera Utilities to change gas meters throughout their service territory. A Bermex technician attempted to replace your existing Riviera Utilities meter with a new, advanced meter. However, they were unsuccessful due to limited access:

◇ Locked Gate ◇ Not Home

◇ Other: On Back of Hanger ◇ Pet

Date

www.bermexinc.com

Please contact Bermex to schedule an appointment. The meter exchange process takes just a few minutes and may require a Bermex technician to enter your home to relight your gas appliances.

Please scan the QR Code below to schedule your appointment online or call 1(833) 889-0729.

Scan Here!

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VPIE OVERVIEW

VPie

Work Order Management Software Designed For Water, Gas, and Electric Utilities

- Mobile Data Collection, Real-Time Dashboards, Key Performance Indicators
- Easy to Create Mobile App with Smart Fields, Take Unlimited Pictures
- Customized Digital Work Orders with Utility Logo
- Asset Management - Track from Warehouse to Installation
- Built in Routing Software to Efficiently Assign Tasks to Field Personnel
- Online Scheduler for Customers to Schedule Appointments
- Powerful Communication Platform - Email, Text, & Voice Blast
- History of all Customer Communications
- Chronological Work Order History
- Easy to Search, Sort, and Filter on All Data Fields Available
- Geo Tagged Data
- Native Mobile App - No Wi-Fi or Cellular Service
- Full Integration to CIS, Billing, other 3rd Party Software



info@VEPOSolutions.com www.VEPOSolutions.com

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VPIE QA PROCESS

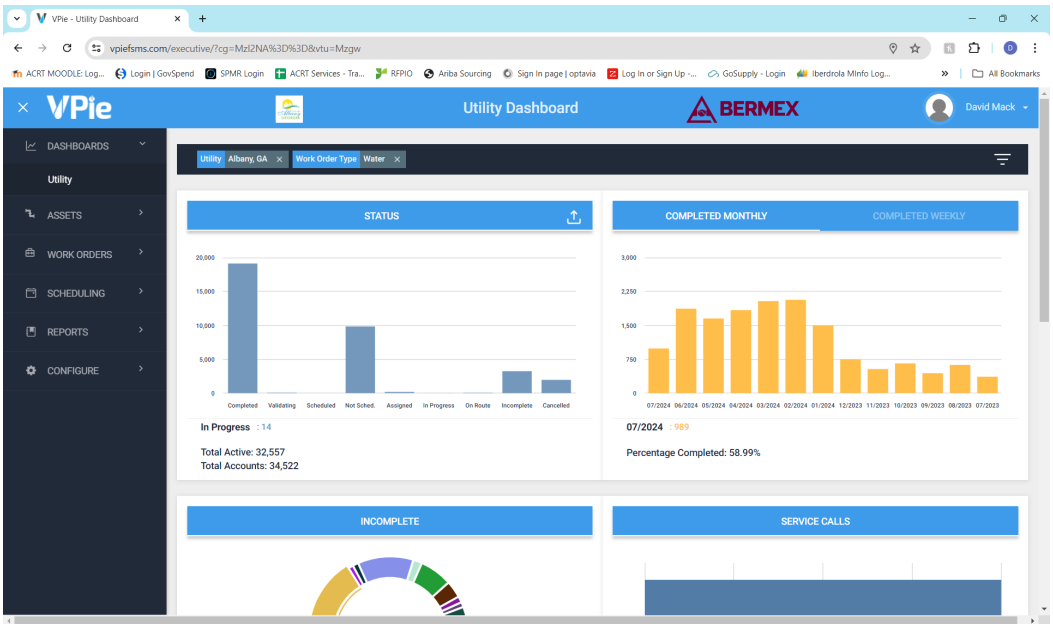
Frequently Asked Questions:

- How does the utility get the data after work is completed.
  - Data is ready to export from VPIE by 1pm the next day after installation. Bermex validators will scrub the data prior to export file being available
  - Data is accessed through the VPIE utility dashboard
  - We can provide access to any utility employee that needs a login
  - VPIE will format the data so that all data files exported will upload directly into utility billing system
  - Data will stay in VPIE for 2 months after project end date and can be extended for an additional $300 monthly fee after the 2 months
- What type of data file needs to be provided to VPIE to set up the work order management system.
  - Data needs to be provided at least two weeks prior to deployment start date
  - Data can be refreshed on a monthly basis if required
- How can I monitor the deployment progress?
  - The VPIE dashboard provides the ability to sort and filter data so you can see the installs daily, weekly, monthly.
  - If you want to review a specific address you can filter by the account number, meter ID, address, etc to pull the specific account.
  - By clicking the photo icon on a specific account you can access the photos of the meter
- Blackout Period
- VPIE has the ability to monitor black out periods based on assigned settings.
  - Keeps employees from working in cycles that are in the reading/billing process
  - Usually set up as 3 days before utility will export their meter reading file and 3 days after utility imports the new meter read file
  - We can also change it on the fly if the utility wants to alerts us of changes
  - Blackout period scheduling will not work unless we have a specific read calendar from the utility and the utility sticks to the read schedule.

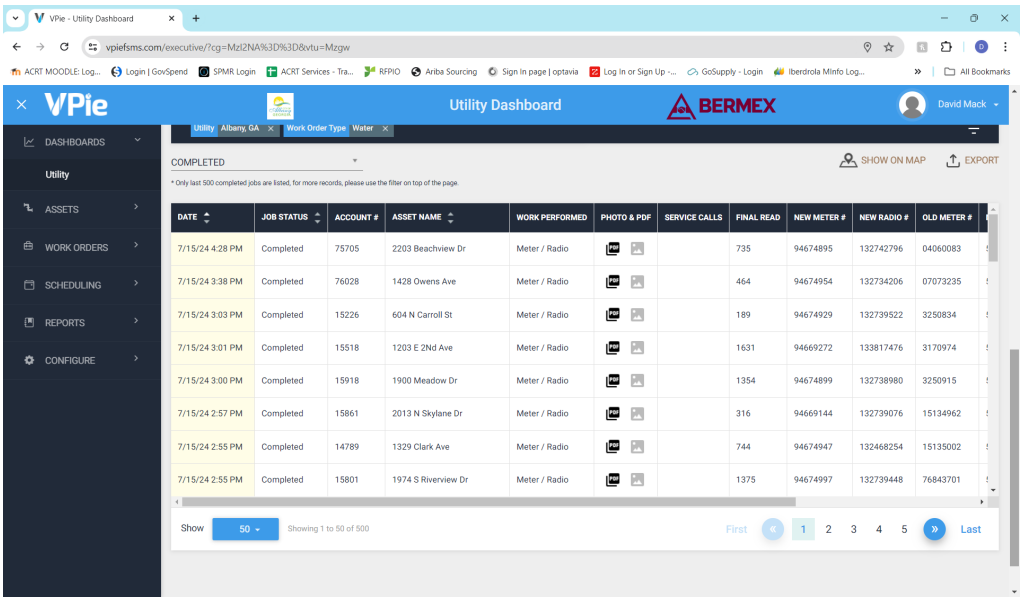
WORK ORDER MANAGEMENT SYSTEM

Provided are several screen shots from our Work Order Management System VPIE. This is the leading WMS for Installation projects in the United States. The online portal can be easily accessed on computers or cell phones. There is no limit to the number of logins that can be provided to the Utility though it is suggested to get this to a minimum and those directly related to the project. Project Summaries and reports are easily downloaded and sent.

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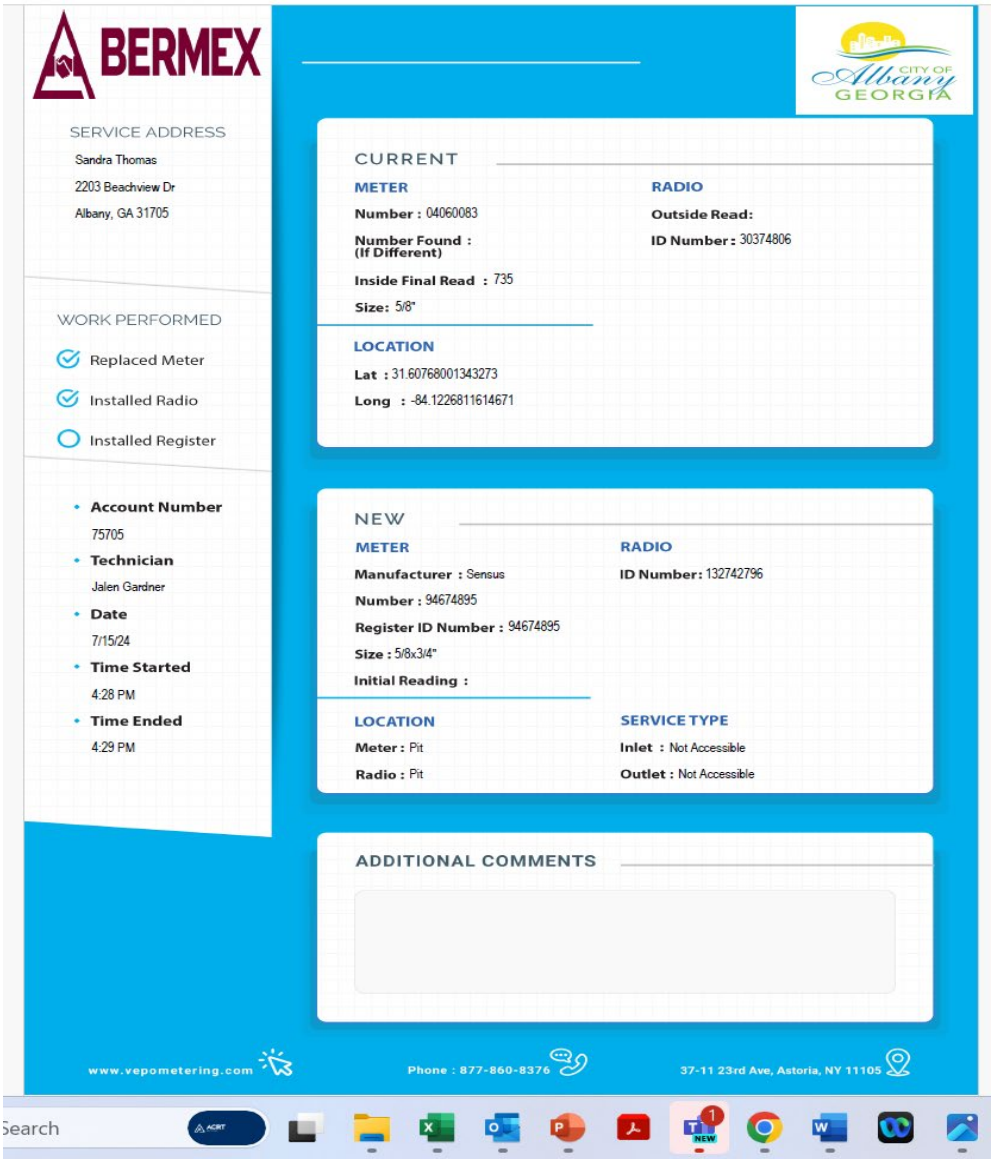


Once an install is completed and validated by our staff a PDF Work Order is created so that if questions do arise, all answers will be found in one document easily searchable on the system.

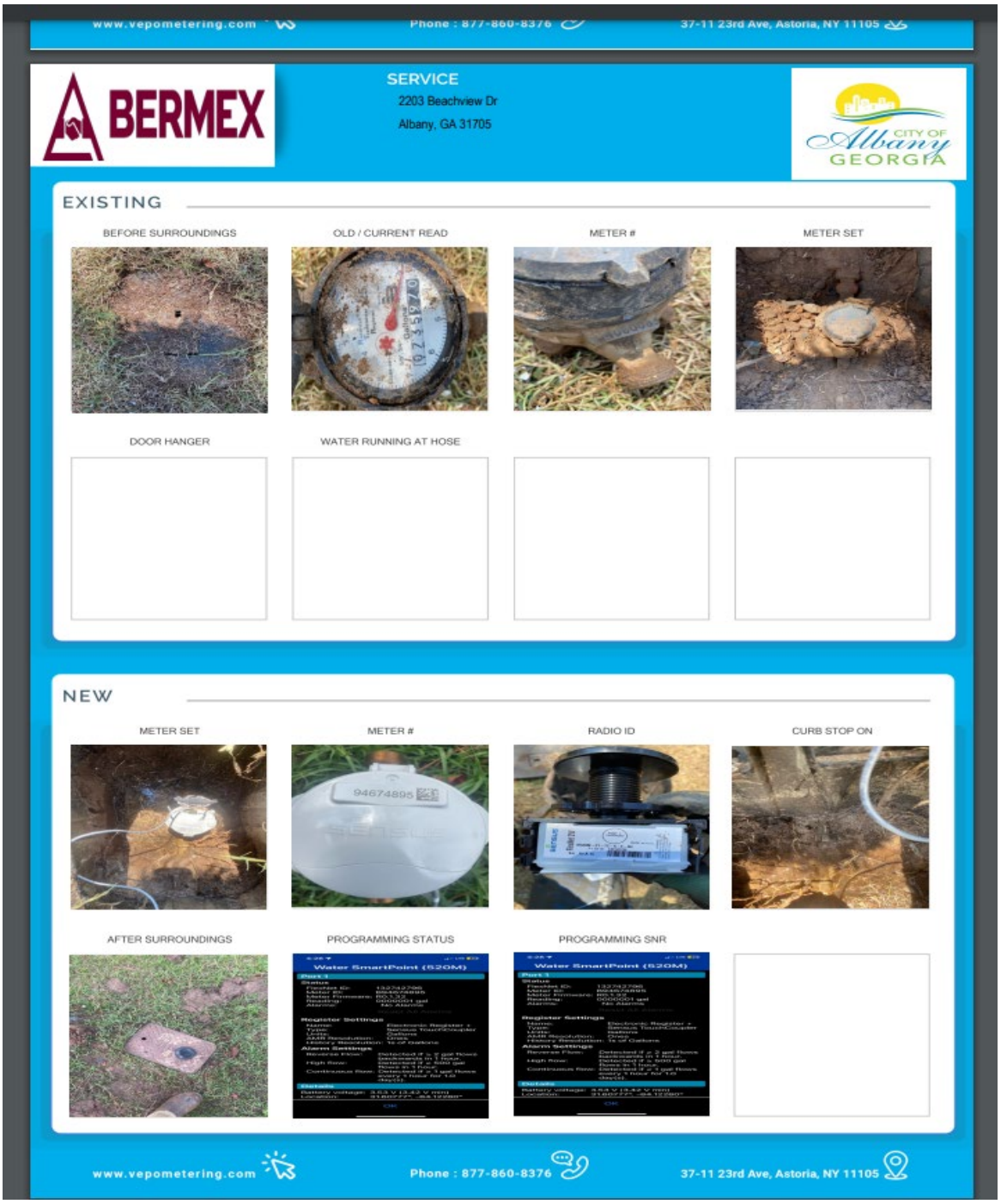


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Work Order Example



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ATTACHMENT Q: ROADMAP

Sensus Roadmap

Sensus Electric Roadmap

Sensus Roadmap Approach

Sensus utilizes a **Now, Next, and Later approach** to roadmap planning for new initiatives.

NOW: Building/Launching. Allocated resources, defined scope, expected timeline for launch, budgets, and sales expectations and are already in market or soon to be launching broadly.

NEXT: Evaluating/Planning/Designing. Currently being vetted by Product Management and Engineering for product/market fit OR are in early stages of design and development, targeted (but not necessarily committed) to be launched in the next 6-18 months.

LATER: Ideation/Innovation. Early ideation and innovation around ways to solve key customer problems and/or ways to enter new markets. In early tech feasibility exploration and/or on deck for initiative kick-off. Too soon to approximate time frames.

Sensus' Stratus IQ Meter Features

The Stratus IQ meter was designed from the outset to provide utilities with the capacity necessary for the 20-year life of their FlexNet system and beyond. The Stratus IQ meter features several significant increases in performance and memory over our preceding generation of residential meters to ensure that your FlexNet system grows with you as your needs grow. The Stratus IQ employs an application processor as well as a Digital Signal Processor (DSP) to ensure future features can be supported via the over-the-air upgrades to its software-defined metrology.

TABLE 1: STRATUS IQ FEATURES PLANNED FOR RELEASE IN MID-2022

Feature	Initial Release	Phase 2 Release*
Load Profile Channels	8	32
Multiple Data Sets with Independent Interval Length	No. 1 LP Data Set Supported	Yes. 4 LP Data Sets Supported
Loss of Neutral (Form 2S) Detection		Yes
Advanced Theft Detection Techniques (including detecting theft when user compromises meter)	Yes. Detection when meter removed from meter socket	Yes. Extended Support for Detection of Bypass Wiring around meter socket
Arc Detection and Auto-Open		Yes
Tilt Detection and Auto-Open		Yes

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Fundamental Metering (60 Hz Energy)		Yes
Four Quadrant Metering	Yes	Yes
Per-Phase Metering		Yes
Total Harmonic Distortion, Total Demand Distortion (THD/TDD)		Yes
Sag & Swell Log		Yes
Outage Log (clicks, blinks, short, sustained		Yes

TABLE 2: STRATUS IQ FEATURES & ROADMAP ITEMS

* These capabilities are planned for the next Stratus IQ update expected to be commercially available soon via an over the air firmware update (no hardware change to the meter required).

Additional Electric Roadmap Initiatives

Sensus is working closely with several third-party companies under non-disclosure agreements to integrate a variety of solutions into our offering. Timing for these solutions is targeted for 2023. These efforts include:

- Distributed Energy Resource management optimization
- Dynamic meter to distribution transformer mapping
- Electric vehicle detection
- Distribution power flow optimization
- Anomaly detection at the meter

DC Metering

Green energy, solar panels, residential battery systems, and electric vehicles are driving demand for a new type of electric meter—one that measures DC Power consumption.

- A new ANSI standard for DC meters is being formulated across utilities, and Xylem is heavily involved in the development.
- Form 2S meter prototypes have been developed and are currently being tested in the field.
- A pending Xylem patent provides a wider dynamic range improved accuracy for our planned product.

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Sensus Water Roadmap

Sensus has a number of exciting water roadmap solutions that are being worked on for our utility customers. Many of these solutions have been conceived through discussions with our existing customers, including those participating in our SPAN customer-run users' group.

These solutions will be supported on existing FlexNet systems, with upgrades to the new software supporting them, or with new hardware being rolled out to accomplish them.

Water Meters

- Enhance existing iPerl meter to include metal flow tube.
- Develop 1-inch ally meter size.
- Continued development for our static meter portfolio through more sizes and meter applications.
- Support for additional sensors and alarms support.
- Additional interface methods for ease of use, troubleshooting, data retrieval, and installation.
- Implement variable measurement intervals for troubleshooting, investigations, and asset life extension.

Sensors

- Add more third-party sensors to increase Sensus' support of additional use cases.

Communications

- Support for more input interfaces (sensor and meter) for additional interoperability and compatibility.
- Additional options for controls, downlinks, and high-data volume applications.

Software

- Integrate additional Xylem applications such as View, Polaris, and BluX.
- Additional smart water applications for hydraulics, sustainability, water quality, and asset management
- Increased third-party interface support for a wide variety of solutions, including SCADA, prepayment, customer portals, and enterprise data.

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ATTACHMENT R: SENSUS BASE STATION INSTALLATION AND COMMISSIONING GUIDE

Base Station Installation and Commissioning

Base Station Mounting

The M400B2 FlexNet Base Station is packaged in a NEMA-4 cabinet enclosure that facilitates easy mounting outdoors or indoors on a wide variety of structures, poles, or walls. This design makes the M400B2 a flexible network device that can be installed virtually anywhere.

Typically, the M400B2 is mounted at ground level for easy mounting and access by field personnel, with the coaxial cable going up to the antenna, which is mounted at the height delineated in the RF propagation study.

Base Station Installation

FlexNet Base Stations are installed on any vertical asset, including communication towers, water tanks, poles, and buildings. They provide field-proven, overlapping, high-bandwidth communications to all FlexNet-enabled endpoints, including water, gas, and electric meters, as well as to a wide variety of smart network devices using Sensus' FCC-licensed, primary-use, full-duplex RF frequencies.

When the order for the M400B2 is placed, the mounting type is also selected: pole mount or wall mount. This selection determines the mounting kit that will be shipped with the base station.

The base station installation guide provides details and guidelines on how to install M400B2 FlexNet Base Stations.

Base Station Site Requirements

Site requirements for installing FlexNet Base Stations are as follows:

- Located according to the RF propagation study.
- Appropriate mounting space available.
- A proper grounding connection available.
- Access to AC power.
- Each base station location requires a suitable structure to mount the antenna that gives an unobstructed view of the endpoints, per the RF propagation design.
- The FlexNet Base Station has been designed to interface to a wide variety of communications options for its backhaul connection to the FlexNet Head End System.

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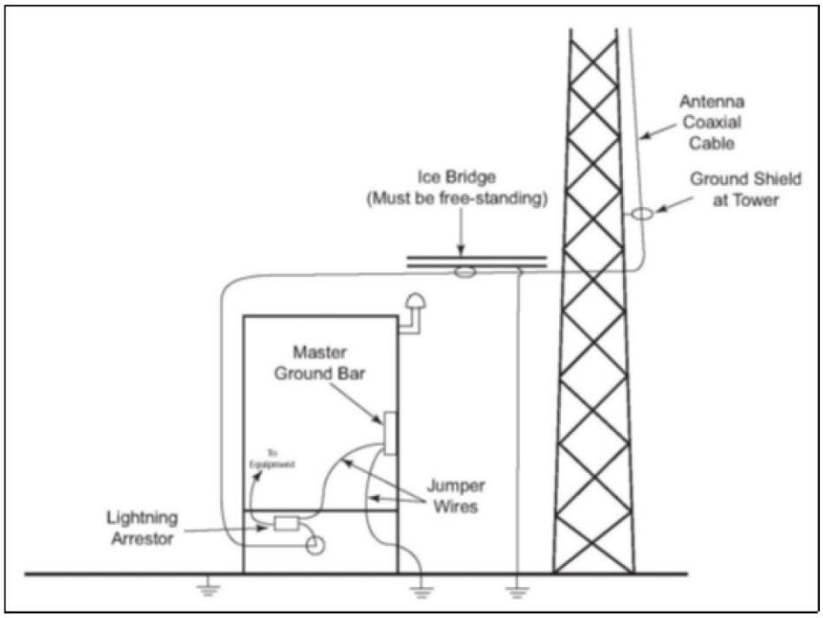


FIGURE 1: FLEXNET BASE STATION COAX AND GROUNDING DETAILS



FIGURE 2: M400B2 FLEXNET BASE STATION (STRUCTURE-MOUNTED BACK VIEW)

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FIGURE 3: M400B2 FLEXNET BASE STATION (STRUCTURE-MOUNTED FRONT VIEW WITH DOOR OPEN)

Base Station Installation Specifications

Base station installation can either be performed by the utility or by Sensus. If Sensus installs the base stations, Sensus provides the Statement of Work (SOW) for each base station site installation, including the details for the site and specifications for installation. Once a site's base station, coax, and antenna have been installed, a Sensus RF expert will certify the installation and ensure that each installation meets performance standards for your FlexNet system. Sensus provides the utility with an as-built certification packet for each base station, which ensures the network is properly configured and optimized for maximum performance.

If the utility chooses to install the base stations, the Statement of Work is the responsibility of the utility.

Site Preparation Activities

Sites can require some preparation work, up to and including permitting, leasing, clearing, electric installation, backhaul installation, pad placement, pole installation, and trenching to run or bury cables. This work will be the responsibility of the utility, with the option for Sensus to provide and install poles, if needed.

Installation Time and Manpower

Sensus typically schedules two days' effort for installation of the equipment at each M400B2 FlexNet Base Station site. Many sites able to be completed in one day.

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Base Station Antennas

FlexNet Base Stations are installed at the base of hardened vertical assets, and the antennas installed at the appropriate height, with coaxial cable connecting them. When the Sensus RF Design Team creates the propagation study for your service territory, they use electric models of different antenna types to design a network that will achieve your desired performance.

Based on the study they conduct; the RF Design Team then makes a recommendation of which models of radio antennas should be purchased. The Sensus Deployment Team works with the base station installer to procure and install the antennas based on the RF Design Team's recommendations, along with appropriate lengths of coax and any required mounting equipment.

Base Station Antenna Q&A

Do we supply radome covers for the antennas?

Radome covers are typically used for dome antennas, while our designs typically use omni and panel antennas.

Pictures of Base Station Installations



FIGURE 4: M400B2 FLEXNET BASE STATION MOUNTED ON LATTICE STRUCTURE

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FIGURE 5: M400B2 FLEXNET BASE STATION MOUNTED OUTSIDE OF SUBSTATION

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FIGURE 6: M400B2 FLEXNET BASE STATION MOUNTED TO STRUCTURE IN SUBSTATION

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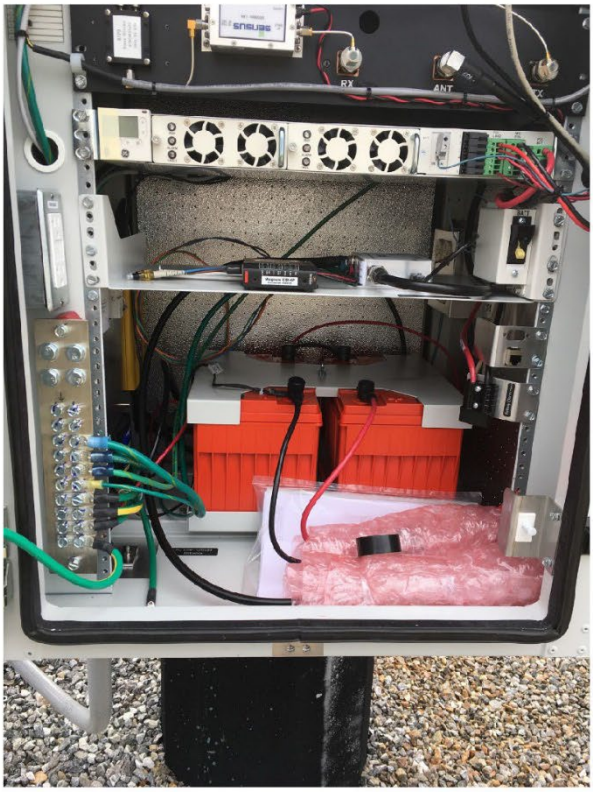


FIGURE 7: M400B2 FLEXNET BASE STATION INTERIOR

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FIGURE 8: M400B2 FLEXNET BASE STATION MOUNTED ON STEEL POLE



FIGURE 9: M400B2 FLEXNET BASE STATION FULL INTERIOR

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FIGURE 10: M400B2 FLEXNET BASE STATION MOUNTED ON STEEL POLE

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FIGURE 11: BASE STATION ANTENNA MOUNTED AT TOP OF STEEL POLE

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FIGURE 12: COAX GOING UP STEEL TRANSMISSION POLE AT M400B2 FLEXNET BASE STATION SITE

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FIGURE 13: ANTENNA MOUNTED AT TOP OF STEEL POLE AT M400B2 FLEXNET BASE STATION SITE

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FIGURE 14: M400B2 FLEXNET BASE STATION INSTALLATION ON STEEL POLE AT SUBSTATION

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FIGURE 15: M400B2 MOUNTED IN BUILDING WITH BUILDING-SIDE MOUNT ANTENNA

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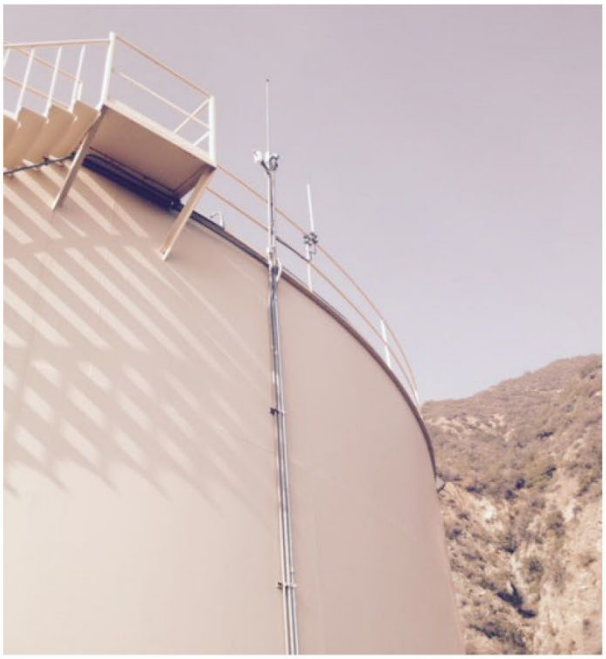


FIGURE 16: BASE STATION ANTENNA MOUNTED ON WATER TANK RAIL



FIGURE 17: BASE STATION ANTENNA MOUNTED ON WATER TANK RAIL

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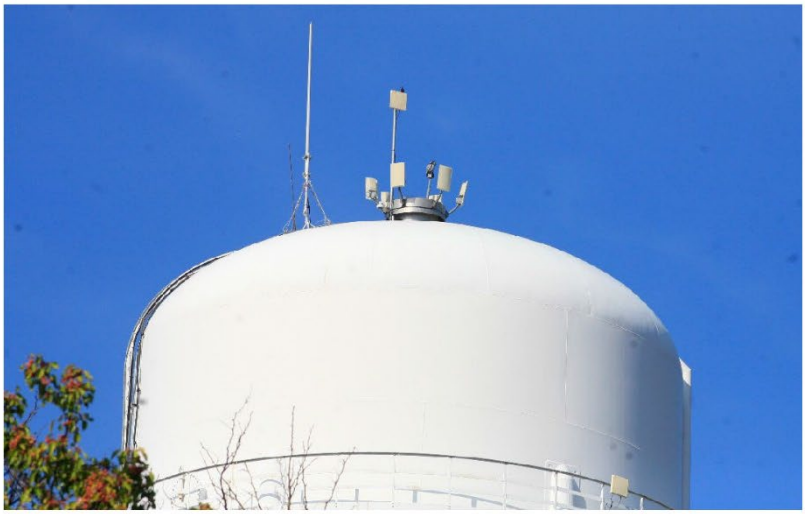


FIGURE 18: BASE STATION ANTENNA MOUNTED ON WATER TANK TOP (LEFT SIDE)



FIGURE 19: BASE STATION ANTENNA MOUNTED ON WIND TURBINE

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FIGURE 20: BASE STATION MOUNTED ON CONCRETE PAD WITH ANTENNA AT TOP OF POLE

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ATTACHMENT S: METER COMPATIBILITY GUIDE

QUICK GUIDE

510M/520M SmartPoint® Module

Water Meter and Ancillaries Compatibility Quick Guide

Sensus

Register Type	Model	Meter Type
ICE & ICE Opto	All meters that accept ICE & ICE Opto 3-wire.	Positive Displacement, Multi-jet, Compound, Turbine, Propeller, Fire Service
OMNI™	T2, C2, F2, R2	Floating Ball Technology
accuMAG™	accuMAG	Mag
iPERL®	iPERL	Mag
Permalog	Permalog+	Acoustic Technology
Sensus® Electronic Register+™ and E-Register	accuSTREAM, SR II	Positive Displacement
ally	ally	ally
Hydroverse	Hydroverse	Mag

Badger

Register Type	Model	Meter Type
ADE	All meters that accept ADE 3-wire and TouchCoupler support, Sensus Approved TR/PL lead, up to 8 wheels.	Disc, Turbine, Compound, Fire Service
HR-E LCD	All meters that accept HR-E LCD 3-wire, up to 8 wheels. Must be at least SmartPoint firmware version R1.2.1f or higher.	Disc, Turbo Series, Compound Series, Combo Series, Fire Service
E-SERIES 8 digits	All models with firmware version 1.36. 3-wire**	Ultrasonic

Neptune

Register Type	Model	Meter Type
Proread 4 wheel	All meters that accept Proread registers. 3-wire support	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 4 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
Proread 6 wheel	All meters that accept Proread registers. 3-wire support	Positive Displacement, Turbine, Compound, Fire Service
E-coder 6 wheel	All meters that accept E-coder registers. 3-wire support (Proread protocol only)	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 6 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
E-coder 8 wheel	All meters that accept E-coder registers. 3-wire support*	Positive Displacement, Turbine, Compound, Fire Service
E-coder with TouchCoupler 8 wheel	All meters with firmware version 01.02. Manufactured after 1/2016.	Positive Displacement, Turbine, Compound, Fire Service
ProCoder 8 wheel	All meters with firmware version 63.16. Manufactured after 7/2018. TouchCoupler and 3-wire**	Positive Displacement, Turbine, Compound, Fire Service

*SmartPoint firmware version 1.2 and above only
**SmartPoint firmware version 1.7 and above only

sensus
a xylem brand

WQG-10021-07

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Elster/Amco

Register Type	Model	Meter Type
Scancoder	All meters that accept Scancoder 3-wire support (Sensus protocol only).	Positive Displacement, Turbine, Multi-jet, Bulk combo, Fire service
InVision	All meters that accept InVision 3-wire support (Sensus protocol only).	Positive Displacement, Turbine, Multi-jet, Bulk combo, Fire service

Master Meter

Register Type	Model	Meter Type
AccuLinx V1.19	All meters that accept AccuLinx 3-wire and TouchCoupler, Sensus approved TR/PL lead.	Positive Displacement
Sonata 8 digits	3-wire and TouchCoupler, firmware version 5.01 or greater.**	Ultrasonic
Octave 8 digits	3-wire only.**	Ultrasonic

McCrometer

Register Type	Model	Meter Type
McCrometer flowcom FC100-00M 8 digits	3-wire reading. Firmware 2.4. Manufactured after 4/2015.	Propeller
ML255 battery powered register 8 digits	3-wire reading only. Firmware 5.09 or greater.**	Propeller
ML Series converter, AC powered 8 digits	3-wire reading only. Firmware 3.03 or greater.**	Propeller

Kamstrup

Register Type	Model	Meter Type
flowIQ 2100 4, 6 and 8 wheel	3-wire reading. Version C1.	Ultrasonic
flowIQ 2100 4, 6, and 8 wheel	3-wire and TouchCoupler version H1.**	Ultrasonic

Diehl

Register Type	Model	Meter Type
Hydrus 8 digits	3-wire support only.** Manufactured after 4/2018.	Ultrasonic

Zenner

Register Type	Model	Meter Type
PMN Nitro 01 4 wheel, 6 wheel	3-wire support only. Manufactured after 8/2015.	Multi-jet

Hersey/Mueller Systems

Register Type	Model	Meter Type
Translator	All meters that accept Translator 3-wire and TouchCoupler support, Sensus approved TR/PL lead.	Positive Displacement, Mag

*SmartPoint firmware version 1.2 and above only
**SmartPoint firmware version 1.7 and above only

SENSUS
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637 Davis Drive
Morrisville, NC 27560
1-800-638-3748
sensus.com

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Item
1
2
3
4
5
6

NOTICE:
RFP No. 2

Bidder Instructions

Description
Please provide all pricing in appropriate QTY and/or Unit Price Cells. Cells in Subtotal/Total columns are populated with appropriate formulas to compute totals where possible.
If a price is not to be provided, please indicate none is provided and provide comments. Do not leave blanks for requested pricing.
Do not include references to other documentation for pricing. All pricing must be included in this sheet.
Managed services are required for a 10 year period. Please provide pricing accordingly. If multiple system components are being proposed, a single managed services fee for the system is to be included. Multiple managed services fees will not be accepted rather a single fee for the SYSTEM is required.
Pricing Summary Tab will auto-populate subtotals from relevant sheets. Do not modify these references.
Please provide proposed payment plan in the "Proposed Payment Plan" tab worksheet.

This document has been created for the City of Wauchula, Florida to be used only for the Request for Proposals 24-05. Use in any other circumstances is prohibited.

One-T

Category	Area
Hardware	Mechanical Measurement Water Meters w/AMI
	No Moving Parts Water Meters w/AMI
	Meter Retrofits w/ AMI Module
	Meter with Remote Disconnect Option (5/8 x 3/4")
	Water System Points Metering Option - Retrofit
	Water System Points Metering Option - Replace
	Electric Meters w/AMI
	Communications
	Distribution Automation Options
	Non-metering Edge Devices
	System Test Fixtures
	Spare Parts
	Other Misc Hardware
	Hardware Total
Materials	Field Devices
	Field Materials
	Materials Total
Delivery Services	System Integrations Delivery Services
	Training Delivery Services
	Supplier Project Delivery Services
	Delivery Services Total
Field Installaton Services	Field Install of Water Meters w/ AMI
	Field Installation Meter Retrofits w/ AMI Module
	Field Install of Water System Metering Retrofit Option
	Field Install of Water System Metering Replace Option
	Field Install of Electric Meters
	Field Install of Communications
	Field Install Non-Metering Edge Devices
	Field Install Project Management
	Field Remediations Services
	Warehousing Services
	Material Recycling & Disposal
	Miscellaneous
	Field Installaton Services Total
One-Time Pricing TOTAL	

Recur

Internal Use Only

Reference	Area
Software as a Service (Saas) Fees	Total Service Fees for Years 1–10
Network as a Service (NaaS) Fees	Total Service Fees for Years 1–10
Recurring Miscellaneous	Recurring Miscellaneous
Recurring Pricing TOTAL	

GRAND TOTAL	

Internal Use Only

ime Pricing Summary

Subtotal	City Comments/Clarifications
$828,061.78	
$983,709.05	
$75,000.00	
$6,544.20	
$926.46	
$41,191.43	
$529,296.98	
$70,775.58	
$8,526.27	
$2,786.91	
$15,000.00	
$0.00	
$0.00	
$2,561,818.65	
$8,097.26	
$0.00	
$8,097.26	
$44,017.69	
$15,000.00	
$130,451.10	
$189,468.79	
$234,288.33	
$26,666.67	
$600.00	
$0.00	
$139,621.33	
$50,000.00	
$300.00	
$24,014.67	
$1,021.33	
$0.00	
$0.00	
$0.00	
$476,512.33	
$3,235,897.04	

ring Pricing Summary

Subtotal	City Comments/Clarifications
$683,566.01	
$542,723.13	
$20,944.96	
$1,247,234.10	

$4,483,131.14	

Internal Use Only

Proposer Comments/Clarifications

Proposer Comments/Clarifications

Item	Area
1	Displacement Water Meters w/AMI
2	Displacement Water Meters w/AMI
3	Displacement Water Meters w/AMI
4	Displacement Water Meters w/AMI
5	Displacement Water Meters w/AMI
6	Displacement Water Meters w/AMI
7	Displacement Water Meters w/AMI
ST	***Mechanical Measurement Water Meters w/AMI***
1	Non-displacement Water Meters w/AMI
2	Non-displacement Water Meters w/AMI
3	Non-displacement Water Meters w/AMI
4	Non-displacement Water Meters w/AMI
5	Non-displacement Water Meters w/AMI
6	Non-displacement Water Meters w/AMI
7	Non-displacement Water Meters w/AMI
ST	***No Moving Parts Water Meters w/AMI***
1	Field Retrofit of Meters w/AMI
ST	***Meter Retrofits w/ AMI Module***
1	Water Meters w/AMI (w/remote disconnect)
ST	***Meter with Remote Disconnect Option (5/8 x 3/4")***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Water System Points Metering Option - Retrofit***
1	Well #1 flow meter

Internal Use Only

2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Water System Points Metering Option - Replace***
1	Electric Meters w/AMI
2	Electric Meters w/AMI
3	Electric Meters w/AMI
4	Electric Meters w/AMI
5	Electric Meters w/AMI
6	Electric Meters w/AMI
7	Electric Meters w/AMI
8	Electric Meters w/AMI
9	Electric Meters w/AMI
ST	***Electric Meters w/AMI***
1	Communications
2	Communications
3	Communications
4	Communications
5	Communications
6	Communications
7	Communications
ST	***Communications***
1	Distribution Automation Devices
2	Distribution Automation Devices
3	Distribution Automation Devices
4	Distribution Automation Devices
5	Distribution Automation System Components
6	Distribution Automation System Components
7	Distribution Automation Services
8	Distribution Automation Services

Internal Use Only

9	Distribution Automation Services
10	Distribution Automation Services
11	Distribution Automation Services
ST	***Distribution Automation Options***
1	Non-metering Edge Devices
2	Non-metering Edge Devices
3	Non-metering Edge Devices
4	Non-metering Edge Devices
5	Non-metering Edge Devices
6	Non-metering Edge Devices
7	Non-metering Edge Devices
8	Non-metering Edge Devices
ST	***Non-metering Edge Devices***
1	System Test Fixtures
2	System Test Fixtures
3	System Test Fixtures
4	System Test Fixtures
ST	***System Test Fixtures***
1	Spare Parts
2	Spare Parts
3	Spare Parts
4	Spare Parts
5	Spare Parts
6	Spare Parts
7	Spare Parts
8	Spare Parts
9	Spare Parts
10	Spare Parts
ST	***Spare Parts***
1	Other Misc Hardware
2	Other Misc Hardware
3	Other Misc Hardware

Internal Use Only

4	Other Misc Hardware
5	Other Misc Hardware
6	Other Misc Hardware
7	Other Misc Hardware
8	Other Misc Hardware
9	Other Misc Hardware
10	Other Misc Hardware
ST	***Other Misc Hardware***
Total	***All Hardware***

Item	Area
1	Field Devices
2	Field Devices
3	Field Devices
4	Field Devices
5	Field Devices
ST	***Field Devices***
1	Field Materials
2	Field Materials
3	Field Materials
4	Field Materials
5	Field Materials
6	Field Materials
7	Field Materials
8	Field Materials
9	Field Materials
10	Field Materials
ST	***Field Materials***
Total	***All Field Materials***

Internal Use Only

Item	Area
1	Integration Services Support
2	Billing System Integration
3	WOMS System Integration
4	GIS LAT/LON Integration
5	Customer Portal Integartion
6	System Integrations
ST	***System Integrations***
Total	***System Integrations Delivery Services***

Item	Area
1	Systems Training (Head-End, Comms, Portal etc)
2	Field Training
3	Tools Training
4	Other (specify)
5	Other (specify)
6	Other (specify)
ST	***Training Delivery Services***
Total	***Training Delivery Services***

Item	Area

Internal Use Only

Item	Area
1	Program & Project Management
2	Business Process Support
3	Project Delivery Support
4	Ad-hoc Analytical Services (if applicable)
5	NaaS One Time Setup (if applicable)
6	SaaS One Time Setup (if applicable)
7	Other (specify)
8	Other (specify)
9	Other (specify)
ST	***Supplier Project Delivery Services***
Total	***Supplier Project Delivery Services***

Item	Area
1	Field Install of Water Meters w/ AMI
2	Field Install of Water Meters w/ AMI
3	Field Install of Water Meters w/ AMI
4	Field Install of Water Meters w/ AMI
5	Field Install of Water Meters w/ AMI
6	Field Install of Water Meters w/ AMI
7	Field Install of Water Meters w/ AMI
8	Field Install of Water Meters w/ AMI
ST	***Field Install of Water Meters w/ AMI***
1	Field Retrofit of Meters w/AMI
ST	***Field Installation Meter Retrofits w/ AMI Module***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter

Internal Use Only

4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Field Install of Water System Metering Retrofit Option***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Field Install of Water System Metering Replace Option***
1	Electric Meters w/AMI
2	Electric Meters w/AMI
3	Electric Meters w/AMI
4	Electric Meters w/AMI
5	Electric Meters w/AMI
6	Electric Meters w/AMI
7	Electric Meters w/AMI
8	Electric Meters w/AMI
9	Electric Meters w/AMI
ST	***Field Install of Electric Meters***
1	Field Install of Communications
2	Field Install of Communications
3	Field Install of Communications
4	Field Install of Communications
5	Field Install of Communications
6	Field Install of Communications
ST	***Field Install of Communications***
1	Field Install Non-Metering Edge Devices
2	Field Install Non-Metering Edge Devices

Internal Use Only

3	Field Install Non-Metering Edge Devices
4	Field Install Non-Metering Edge Devices
5	Field Install Non-Metering Edge Devices
ST	***Field Install Non-Metering Edge Devices***
1	Field Installation Project Management
2	Installation Stand-down cost
3	WOMS Integration to Billing System
4	Other (specify)
5	Other (specify)
ST	***Field Install Project Management***
1	Meter Box & Lid Replacement (single meter in box)
2	Meter Box & Lid Replacement (dual meter in box)
3	Meter Lid Replacement
4	Meter Lid Drilling
5	Meter Box Grading (significant below/above grade)
6	Meter Box Repositioning
7	Curb Stop Replacement
8	Meter yoke / riser replacement
9	Other box related (vacuum sand)
10	Plumbing Repairs / Plumbing connections repairs
11	Electrical Meter Base Repairs
ST	***Field Remediations Services***
1	Warehousing Services
2	Warehousing Services
3	Warehousing Services
4	Warehousing Services
ST	***Warehousing Services***

Internal Use Only

1	Water Meter Disposal
2	Water Meter Recycling
3	Electric Meter Disposal
4	Hazardous Waste Disposal
5	Other (specify)
6	Other (specify)
7	Other (specify)
ST	***Material Recycling & Disposal***
1	Miscellaneous
2	Miscellaneous
3	Miscellaneous
4	Miscellaneous
5	Miscellaneous
ST	***Miscellaneous***
Total	***Field Installation Services***

T	**Total One-Time Pricing**

Internal Use Only

Hardware (One Time Pricing as Req

Description	Quantity	Unit Price
Mechanical Measurement Water Meters w/ AMI - Pricing with S		
5/8 x 3/4" inch	2,400	$257.50
1" inch	250	$342.50
1.5" inch	36	$636.25
2" inch	85	$840.00
3" inch	7	$1,378.83
4" inch	8	$2,560.00
Other (specify)		
Subtotal	***2,786***	
No Moving Parts (Ultrasonic/Electromagnetic) Water Meters w/AMI - Prici		
5/8 x 3/4" inch	2,400	$257.50
1" inch	250	$342.50
1.5" inch	36	$1,732.05
2" inch	85	$1,963.35
3" inch	7	$2,610.90
4" inch	8	$4,071.15
Other (specify)		
Subtotal	***2,786***	
Meter Retrofits w/ AMI M		
Module for Kamstrup FlowIQ (2100 and 3101 models)	500	$150.00
	500	
Meter with Remote Disconnect Opt		
5/8 x 3/4" inch	12	$545.35
Subtotal	***12***	
Water System Points Metering Option (RE		
Water Specialties 6-inch Serial No 902296 (retrofit)	1	$154.41
Water Specialties 6-inch Serial No 20121600-06 (retrofit)	1	$154.41
Water Specialties 10-inch Serial No 902298-10 (retrofit)	1	$154.41
Water Specialties 12-inch Serial No 20083006-12 (retrofit)	1	$154.41
Krohne Serial 12-inch C102929 (retrofit)	1	$154.41
Krohne Serial 10-inch No C10-1542 (retrofit)	1	$154.41
Subtotal	***6***	
Water System Points Metering Option (RE		
Water Specialties 6-inch Serial No 902296 (replace)	1	$5,311.43

Internal Use Only

Water Specialties 6-inch Serial No 20121600-06 (replace)	1	$5,311.43
Water Specialties 10-inch Serial No 902298-10 (replace)	1	$7,330.00
Water Specialties 12-inch Serial No 20083006-12 (replace)	1	$7,954.29
Krohne Serial 12-inch C102929 (replace)	1	$7,954.29
Krohne Serial 10-inch No C10-1542 (replace)	1	$7,330.00
Subtotal	***6***	
	Electric Meters w/ AMI (Meter R	
2S CL200	2,592	$144.51
2S CL320	32	$159.36
3S CL20	4	$223.30
4S CL20	16	$242.05
9S CL20	52	$643.19
12S CL200	32	$172.55
16S CL320	100	$691.81
25S CL200	4	$172.55
46S CL20	56	$643.19
Subtotal	***2,888***	
	Communications (Collectors, Gateways, Repeate	
Network collection points (e.g. Gateways/collectors)	0	
Network transceivers	0	
Network repeaters	0	
Backhaul	2	$35,387.79
Network support for Test Environment Option		
Cellular (if applicable, specify)		
Other (specify)		
Subtotal	***2***	
	Distribution Automation C	
Voltage Regulators		
Faulted Circuit Indicator (FCI)		
Recloser		
Capacitor Bank Controllers		
DA Hardware		
DA Software		
Renewables/DER Support		
Integration services if needed		

Internal Use Only

Other (specify)	1	$1,424.85
Other (specify)	1	$2,825.99
Other (specify)	1	$4,275.43
Subtotal	***3***	
		Non-metering Edge Devices (e.g. Intelligen
Intelligent water level sensors	3	
Water temperature sensors	3	
Water pressure sensors	3	
Acoustic leak detection sensors	1	$1,726.67
Intelligent Edge Gateway	3	$353.41
Streetlight Controller	2	
Other (specify)		
Other (specify)		
Subtotal	***15***	
		System Test Fixtures (Water, Electric, Gas test and c
Water Test & Demonstration Fixture	1	$15,000.00
Electric Test & Demonstration Fixture	0	
Other (specify)		
Other (specify)		
Subtotal	***1***	
		Spare Parts
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Other Misc Hardwar
Other (specify)		
Other (specify)		
Other (specify)		

Internal Use Only

Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
Total		

Materials (One Time Pricing as Req

Description	Quantity	Unit Price
Field Devices (E.g. Handhelds, Meter R		
Handheld units to read meters locally	3	$1,000.00
Devices to troubleshoot/program/upgrade meters locally	3	$882.99
Other (specify)	3	$273.85
Other (specify)	3	$532.25
Other (specify)	3	$10.00
Subtotal	***15***	
Field Materials (E.g. magnets, bolts, screws, seals, locks, doorhangers, mail		
Lids for Water Meter boxes (1 unit AMI ready)		
Lids for Water Meter boxes (2 unit AMI ready)		
Water Meter boxes		$22.75
Misc Plumbing Remediation Parts		
Meter yokes		$19.00
Mailers for customer notification		$2.00
Doorhangers for customer notification		$0.67
Other (specify)		$42.26
Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

Internal Use Only

System Integration Delivery Services (One Time P

Description	Quantity	Unit Price
System Integrations (One Time Pricing as Re		
Proposer to define	1	$10,000.00
Proposer to define	1	$34,017.69
Proposer to define	1	
Proposer to define	1	
Proposer to define	1	
Other (specify)		
Subtotal	***5***	
TOTAL		

Training Delivery Services (One Time Pricing

Description	Quantity	Unit Price
Training Delivery Services (One Time Pricing as		
Proposer to define	1	$10,000.00
Proposer to define	1	$3,000.00
Proposer to define	1	$2,000.00
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***3***	
TOTAL		

Supplier Project Delivery Services (One Time Pr

Description	Quantity	Unit Price

Internal Use Only

Description	Quantity	Unit Price
Supplier Project Delivery Services (One Time Pricing		
Proposer to define	1	$93,750.00
Support for re-engineering existing processes as needed to support the AMI solution		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define	1	$36,701.10
Proposer to define		
Proposer to define		
Subtotal	***2***	
TOTAL	***3***	

Field Installation Services (One Time Pricing

Description	Quantity	Unit Price
Field Installation of Water Meters w		
5/8 x 3/4” inch	2,400	$69.33
1” inch	250	$69.33
1.5” inch	36	$316.00
2” inch	85	$316.00
3” inch	7	$526.33
4” inch	8	$1,079.33
Other (specify)		
Other (specify)		
	2,786	
Field Installatin of Meter Retrofits		
Module for Kamstrup FlowIQ (2100 and 3101 models)	500	$53.33
	500	
Field Installation of Water System Meter		
Water Specialties 6-inch Serial No 902296 (retrofit)	1	$100.00
Water Specialties 6-inch Serial No 20121600-06 (retrofit)	1	$100.00
Water Specialties 10-inch Serial No 902298-10 (retrofit)	1	$100.00

Internal Use Only

Water Specialties 12-inch Serial No 20083006-12 (retrofit)	1	$100.00
Krohne Serial 12-inch C102929 (retrofit)	1	$100.00
Krohne Serial 10-inch No C10-1542 (retrofit)	1	$100.00
	6	
Field Installation of Water System Mete		
Water Specialties 6-inch Serial No 902296 (replace)	1	
Water Specialties 6-inch Serial No 20121600-06 (replace)	1	
Water Specialties 10-inch Serial No 902298-10 (replace)	1	
Water Specialties 12-inch Serial No 20083006-12 (replace)	1	
Krohne Serial 12-inch C102929 (replace)	1	
Krohne Serial 10-inch No C10-1542 (replace)	1	
	6	
Field Installation of Electric		
2S CL200	2592	$46.67
2S CL320	32	$46.67
3S CL20	4	$77.33
4S CL20	16	$77.33
9S CL20	52	$77.33
12S CL200	32	$46.67
16S CL320	100	$54.67
25S CL200	4	$77.33
46S CL20	56	$77.33
	2,888	
Field Installation of Commu		
Network Collection Point Installation	0	
Network Repeater Installation	0	
Backhaul Infrastructure (If applicable)	2	$25,000.00
Other (specify)		
Other (specify)		
Other (specify)		
	2	
Field Installation of Non-Metering		
Install Intelligent Water Sensors	0	
Install Intelligent Sensor Gateways	3	$100.00

Internal Use Only

Other (specify)		
Other (specify)		
Other (specify)		
	3	
		Field Installation Project Mar
Proposer to define	1	$13,333.33
Cost Per Day of Stand Down	1	$5,348.00
Integration Costs and File Update Costs during project	1	$5,333.33
Proposer to define		
Proposer to define		
	3	
		Field Remediations Services (pump box, box repl
Proposer to define	1	$73.33
Proposer to define	1	$93.33
Proposer to define	1	$4.00
Proposer to define	1	$6.67
Proposer to define	1	$73.33
Proposer to define	1	$93.33
Proposer to define	1	$173.33
Proposer to define	1	$53.33
Proposer to define	1	$50.67
The price per hour for a Licensed Plumber	1	$200.00
The price per hour for Licensed Electrician	1	$200.00
Subtotal	***11***	
		Warehousing Service
Warehousing for Mass Deployment		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Material Recycling & Dis

Internal Use Only

Proposer to define	0	
Proposer to define	0	
Proposer to define	0	
Proposer to define	0	
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Miscellaneous
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

Total	

uired per Specifications)

Total	City Comments / Clarifications
ingle Port AMI Module (Meter Replacements)	
$618,000.00	
$85,625.00	
$22,905.00	
$71,400.00	
$9,651.78	
$20,480.00	
$0.00	
$828,061.78	
ng with Single Port AMI Module (Meter Replacements)	
$618,000.00	
$85,625.00	
$62,353.80	
$166,884.75	
$18,276.30	
$32,569.20	
$0.00	
$983,709.05	
Module	
$75,000.00	
$75,000.00	
ion (5/8 x 3/4")	
$6,544.20	Proposer to specify
$6,544.20	
TROFIT existing meters)	
$154.41	
$154.41	
$154.41	
$154.41	
$154.41	
$154.41	
$926.46	
EPLACE existing meters)	
$5,311.43	Proposer to provide new meter replacement

Internal Use Only

$5,311.43	Proposer to provide new meter replacement
$7,330.00	Proposer to provide new meter replacement
$7,954.29	Proposer to provide new meter replacement
$7,954.29	Proposer to provide new meter replacement
$7,330.00	Proposer to provide new meter replacement
$41,191.43	
eplacements)	
$374,574.17	
$5,099.68	
$893.22	
$3,872.80	
$33,445.66	
$5,521.45	
$69,181.43	
$690.18	
$36,018.40	
$529,296.98	
rs, Radios, Base Stations etc)	
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$70,775.58	Tower/Base station/etc. equipment
$0.00	Specify any required comm hardware to support the Test Environment
$0.00	Specify any field equipment if required for cellular option. Monthly cell charges are to be listed under Recurring Misc.
$0.00	
$70,775.58	
ptions	
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.

. Internal Use Only

$1,424.85	
$2,825.99	
$4,275.43	
$8,526.27	
t Water Level Sensors)	
$0.00	
$0.00	
$0.00	
$1,726.67	
$1,060.24	
$0.00	
$0.00	
$0.00	
$2,786.91	
demo boards, carts and fixtures)	
$15,000.00	
$0.00	
$0.00	
$0.00	
$15,000.00	
$0.00	Proposer to recommend
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
e	
$0.00	
$0.00	
$0.00	

Internal Use Only

$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$2,561,818.65	

uired per Specifications)

Total	City Comments / Clarifications
eading devices etc)	
$3,000.00	Proposer to indicate recommended quantities for this size implementation.
$2,648.96	Proposer to indicate recommended quantities for this size implementation.
$821.55	
$1,596.75	
$30.00	
$8,097.26	
ers, postcards, water box, lids, waste & spoils, salvage)	
$0.00	Per unit as approved.
$0.00	Per unit as approved.
$0.00	Per unit as approved.
$0.00	Per unit as approved
$0.00	Per unit as approved
$0.00	Per unit as approved
$0.00	Per unit as approved
$0.00	
$0.00	
$0.00	
$0.00	
$8,097.26	

Internal Use Only

ricing as Required per Specifications)

Total	City Comments / Clarifications
quired per Specifications)	
$10,000.00	Integrations as noted in RFP
$34,017.69	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$0.00	
$44,017.69	
$44,017.69	

g as Required per Specifications)

Total	City Comments / Clarifications
Required per Specifications)	
$10,000.00	
$3,000.00	
$2,000.00	
$0.00	
$0.00	
$0.00	
$15,000.00	
$15,000.00	

icing as Required per Specifications)

Total	City Comments / Clarifications

Total	City Comments / Clarifications
g as Required per Specifications)	
$93,750.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$36,701.10	
$0.00	
$0.00	
$130,451.10	
$130,451.10	

g as Required per Specifications)

Total	City Comments / Clarifications
ith AMI modules	
$166,400.00	
$17,333.33	
$11,376.00	
$26,860.00	
$3,684.33	
$8,634.67	
$0.00	
$0.00	
$234,288.33	
w/ AMI Module	
$26,666.67	
$26,666.67	
ring RETROFIT Option	
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter

. Internal Use Only

$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$600.00	
ring REPLACE Option	
$0.00	Install new meter
$0.00	Install new meter
$0.00	Install new meter
$0.00	Install new meter
$0.00	Install new meter
$0.00	Install new meter
$0.00	
Meters	
$120,960.00	
$1,493.33	
$309.33	
$1,237.33	
$4,021.33	
$1,493.33	
$5,466.67	
$309.33	
$4,330.67	
$139,621.33	
nications	
$0.00	
$0.00	
$50,000.00	
$0.00	
$0.00	
$0.00	
$50,000.00	
g Edge Devices	
$0.00	Provide pricing should City desire to install gateways & sensors in the field
$300.00	

. Internal Use Only

$0.00	
$0.00	
$0.00	
$300.00	
nagement	
$13,333.33	
$5,348.00	
$5,333.33	
$0.00	
$0.00	
$24,014.67	
acement, meter base repairs)	
$73.33	Per unit as approved.
$93.33	Per unit as approved.
$4.00	Per unit as approved.
$6.67	Per unit as approved. Only required for exceptions that may not be replaced. Provide itemized labor
$73.33	Per unit as approved. Provide itemized labor (per City standards) pricing
$93.33	Per unit as approved. Provide itemized labor (per City standards) pricing
$173.33	Per unit as approved. Provide itemized labor and material (per City standards) pricing
$53.33	Per unit as approved.
$50.67	Per unit as approved. Provide itemized labor and material (per City standards) pricing
$200.00	Per unit as approved. Provide itemized labor and material (per City standards) pricing. Local licensed plumber to be used
$200.00	Per unit as approved. Local licensed electrician to be used
$1,021.33	
es	
$0.00	Supplier to provide optional pricing for Warehousing
$0.00	
$0.00	
$0.00	
$0.00	
posal	

. Internal Use Only

$0.00	Pricing is updated on a quarterly basis due to market rates .
$0.00	Salvage Credit / Recycle Credit provided against outstanding invoices. Specify any administrative fees.
$0.00	Pricing is updated on a quarterly basis due to market rates .
$0.00	Pricing is updated on a quarterly basis due to market rates .
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$476,512.33	

$3,235,897.04	

Internal Use Only

Proposer Comments / Clarifications
SRII E-Reg w/ Sensus 520M SmartPoint
SRII E-Reg w/ Sensus 520M SmartPoint
Sensus OMNI+ R2 w/ Sensus 520M SmartPoint
Sensus OMNI+ R2 w/ Sensus 520M SmartPoint
Sensus OMNI+ T2 Turbine Meter w/ Sensus 520M SmartPoint
Sensus OMNI+ T2 Turbine Meter w/ Sensus 520M SmartPoint
Sensus iPERL+ Smart Water Meter w/ Sensus 520M SmartPoint
Sensus iPERL+ Smart Water Meter w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus 520M SmartPoint w/ Itron Connector
Sensus ally Smart Water Meter w/ Sensus 520M SmartPoint
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.

Internal Use Only

Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Stratus IQ, No Remote Disconnect
Stratus IQ, No Remote Disconnect
Stratus IQ, No Remote Disconnect
Stratus IQ, No Remote Disconnect
Aclara KV2C, No Remote Disconnect
Stratus IQ, No Remote Disconnect
Aclara KV2C, No Remote Disconnect
Stratus IQ, No Remote Disconnect
Aclara KV2C, No Remote Disconnect
N/A
N/A
N/A
Sensus M400B Base Station
Will need further discussion with Sensus Proffessional Services.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.

Internal Use Only

Interfaces w/ reclosure controllers, cap bank controllers, voltage regulators, etc. (provided and spec'd by customer)
Interfaces w/ Hortsmann PDP Smart Navigator FCI (provided and spec'd by customer)
Interfaces with analog and digital sensors (provided and spec'd by customer)
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
PermaLog+ Acoustic Leak Sensor
Sensus Smart Gateway
Not able to provide a product for this device.
Test & Demonstration Fixture for both Water & Electric
See above.

Proposer Comments / Clarifications
Android Tablet with FieldLogic Tools Software, not necessary if Android Tablets are already being used.
Sensus CommandLink II
Sensus Field Logic Communicator Package
Sensus TouchReader Plus Visual Display
USB-C Adapter
Included in Meter Box Pricing
Included in Meter Box Pricing
Includes Lid - Single
Double Meter Box with Lid

Internal Use Only

Proposer Comments / Clarifications
Standard Integration
Pricing to be given upon agreed Scope of Work by Sensus Proffessional Services.
Pricing to be given upon agreed Scope of Work by Sensus Proffessional Services.
Pricing to be given upon agreed Scope of Work by Sensus Proffessional Services.

Proposer Comments / Clarifications

Proposer Comments / Clarifications

Internal Use Only

Proposer Comments / Clarifications
Program/ Project Management for duration of project through Core & Main.
Included in program/project management fee.
Included in program/project management fee.
Included in Integration/Setup Fees, as well as BackHaul Installation.
Included in SaaS Pricing
Outreach Services: Customer Engagment Plan, AMI Day Support Services (One Event), City Commission Meeting Support (One Meeting), Notification Development|Distribution, Door Hanger Development | Corrdination with Installer

Proposer Comments / Clarifications
Like for Like Installation
Like for Like Installation
Like for Like Installation
Like for Like Installation
Like for Like Installation
Like for Like Installation
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint

Internal Use Only

Installation of Sensus 512M SmartPoint

Installation of Sensus 512M SmartPoint

Installation of Sensus 512M SmartPoint

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

N/A

N/A

Installation of Sensus M400B & Antennae upon existing vertical assets.

Sensors to be installed by City. With guidance from Core & Main.

Installation of Sensus Smart Gateway

Internal Use Only

Pricing to be given upon further discussion.

Internal Use Only

Further discussion needed prior to pricing. This is due to changing market rates.
Further discussion needed prior to pricing. This is due to changing market rates.
Further discussion needed prior to pricing. This is due to changing market rates.
Further discussion needed prior to pricing. This is due to changing market rates.

Softw

Item	Annual Service Fee	Monthly Fee	Yearly
1	Year 1		$106,992.87
2	Year 2		$56,754.32
3	Year 3		$58,456.95
4	Year 4		$60,210.66
5	Year 5		$62,016.98
6	Year 6		$63,877.49
7	Year 7		$65,793.81
8	Year 8		$67,767.62
9	Year 9		$69,800.65
10	Year 10		$71,894.67
ST	***Total Service Fees for Years 1–10***		***$683,566.01***

Netwo

Item	Annual Service Fee	Monthly Fee	Yearly
1	Year 1		$48,635.00
2	Year 2		$48,635.00
3	Year 3		$50,094.05
4	Year 4		$51,596.87
5	Year 5		$53,144.78
6	Year 6		$54,739.12
7	Year 7		$56,381.29
8	Year 8		$58,072.73
9	Year 9		$59,814.92
10	Year 10		$61,609.36
ST	***Total Service Fees for Years 1–10***		***$542,723.13***

Item	Device Description	Quantity	Unit Price
1	Extended Warranty Pricing	2	$10,472.48
2	Managed Services 24/7 support if not standard.		

Internal Use Only

3	Cellular Monthly Charges (if offered)		
4	Test Environment (Head-End, Test Network etc.)		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
ST	***Recurring Miscellaneous***		

Internal Use Only

are as a Service (Saas) Fees

City Comments / Clarifications

ork as a Service (NaaS) Fees

City Comments / Clarifications

Recurring Miscellaneous

Total
$20,944.96
$0.00

Internal Use Only

$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$20,944.96

Internal Use Only

Proposer Comments / Clarifications
Includes Integration fees and Initial SetUp.

Proposer Comments / Clarifications
Installation of infastructure will be priced seperately. Integration and SetUp Fees Priced Seperately.

City Comments / Clarifications
Proposer to specify

Internal Use Only

If Proposer is offering a cellular option, please include monthly per point charges.

Internal Use Only

Proposer Comments / Clarifications
5 Year Extended Warranty for Sensus M400 Basestation.
Included in payment of SaaS or NaaS fees.

Internal Use Only

N/A
Further discussion upon what test environment will be required.

Internal Use Only

Section 24.2.3: F

Resource	Title	Hourly Rate	
1	Sensus Professional Services	$468.75	
2	Additional Sr. Project Manager	$206.25	
3	Additional Project Coordinator/Smart Grid Systems Specialist	$140.00	
4	Additional Grid Systems Administrator	$122.50	
5			

ees for Additional Requested Services

City Comments / Clarifications

. Internal Use Only

Proposer Comments / Clarifications
Service to perform any non-standard integrations, etc.
Provided by WeProject
Provided by WeProject
Provided by WeProject

Internal Use Only

Item	Payment Description
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Table 23-1: Proposed Payment Te

Time Frame for Proposed Payment

rms

Proposer Comments
To be discussed during negotiations.

Item
1
2
3
4
5
6

NOTICE:
RFP No. 2

Bidder Instructions

Description
Please provide all pricing in appropriate QTY and/or Unit Price Cells. Cells in Subtotal/Total columns are populated with appropriate formulas to compute totals where possible.
If a price is not to be provided, please indicate none is provided and provide comments. Do not leave blanks for requested pricing.
Do not include references to other documentation for pricing. All pricing must be included in this sheet.
Managed services are required for a 10 year period. Please provide pricing accordingly. If multiple system components are being proposed, a single managed services fee for the system is to be included. Multiple managed services fees will not be accepted rather a single fee for the SYSTEM is required.
Pricing Summary Tab will auto-populate subtotals from relevant sheets. Do not modify these references.
Please provide proposed payment plan in the "Proposed Payment Plan" tab worksheet.

This document has been created for the City of Wauchula, Florida to be used only for the Request for Proposals 24-05. Use in any other circumstances is prohibited.

One-T

Category	Area
Hardware	Mechanical Measurement Water Meters w/AMI
	No Moving Parts Water Meters w/AMI
	Meter Retrofits w/ AMI Module
	Meter with Remote Disconnect Option (5/8 x 3/4")
	Water System Points Metering Option - Retrofit
	Water System Points Metering Option - Replace
	Electric Meters w/AMI
	Communications
	Distribution Automation Options
	Non-metering Edge Devices
	System Test Fixtures
	Spare Parts
	Other Misc Hardware
	Hardware Total
Materials	Field Devices
	Field Materials
	Materials Total
Delivery Services	System Integrations Delivery Services
	Training Delivery Services
	Supplier Project Delivery Services
	Delivery Services Total
Field Installaton Services	Field Install of Water Meters w/ AMI
	Field Installation Meter Retrofits w/ AMI Module
	Field Install of Water System Metering Retrofit Option
	Field Install of Water System Metering Replace Option
	Field Install of Electric Meters
	Field Install of Communications
	Field Install Non-Metering Edge Devices
	Field Install Project Management
	Field Remediations Services
	Warehousing Services
	Material Recycling & Disposal
	Miscellaneous
	Field Installaton Services Total
One-Time Pricing TOTAL	

Recur

Reference	Area
Customer Portal Fees	Total Service Fees for Years 1–10
re and Network as a Service (SaaS/Naa	Total Service Fees for Years 1–10
Annual Recurring Miscellaneous	Annual Recurring Miscellaneous
Recurring Pricing TOTAL	

GRAND TOTAL	

ime Pricing Summary

Subtotal	City Comments/Clarifications
$0.00	
$892,283.20	
$72,500.00	
$129,746.40	
$926.46	
$0.00	
$523,307.36	
$0.00	
$0.00	
$1,019.49	
$12,500.00	
$0.00	
$0.00	
$1,632,282.91	
$7,909.76	
$249,972.70	
$257,882.46	
$25,083.33	
$0.00	
$90,500.00	
$115,583.33	
$219,645.37	
$25,000.00	
$600.00	
$0.00	
$130,895.00	
$45,000.00	
$300.00	
$13,333.33	
$760,853.33	
$12,740.00	
$359.00	
$0.00	
$1,208,726.04	
$3,214,474.74	

ring Pricing Summary

Subtotal	City Comments/Clarifications
$0.00	
$542,723.13	
$2,425.00	
$545,148.13	

$3,759,622.87	

Proposer Comments/Clarifications

Proposer Comments/Clarifications

Item	Area
1	Displacement Water Meters w/AMI
2	Displacement Water Meters w/AMI
3	Displacement Water Meters w/AMI
4	Displacement Water Meters w/AMI
5	Displacement Water Meters w/AMI
6	Displacement Water Meters w/AMI
7	Displacement Water Meters w/AMI
ST	***Mechanical Measurement Water Meters w/AMI***
1	Non-displacement Water Meters w/AMI
2	Non-displacement Water Meters w/AMI
3	Non-displacement Water Meters w/AMI
4	Non-displacement Water Meters w/AMI
5	Non-displacement Water Meters w/AMI
6	Non-displacement Water Meters w/AMI
7	Non-displacement Water Meters w/AMI
ST	***No Moving Parts Water Meters w/AMI***
1	Field Retrofit of Meters w/AMI
ST	***Meter Retrofits w/ AMI Module***
1	Water Meters w/AMI (w/remote disconnect)
ST	***Meter with Remote Disconnect Option (5/8 x 3/4")***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Water System Points Metering Option - Retrofit***

1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Water System Points Metering Option - Replace***
1	Electric Meters w/AMI
2	Electric Meters w/AMI
3	Electric Meters w/AMI
4	Electric Meters w/AMI
5	Electric Meters w/AMI
5A	Electric Meters w/AMI
6	Electric Meters w/AMI
7	Electric Meters w/AMI
7A	Electric Meters w/AMI
8	Electric Meters w/AMI
9	Electric Meters w/AMI
9A	Electric Meters w/AMI
ST	***Electric Meters w/AMI***
1	Communications
2	Communications
3	Communications
4	Communications

5	Communications
6	Communications
7	Communications
ST	***Communications***
1	Distribution Automation Devices
2	Distribution Automation Devices
3	Distribution Automation Devices
4	Distribution Automation Devices
5	Distribution Automation System Components
6	Distribution Automation System Components
7	Distribution Automation Services
8	Distribution Automation Services
9	Distribution Automation Services
10	Distribution Automation Services
11	Distribution Automation Services
ST	***Distribution Automation Options***
1	Non-metering Edge Devices
2	Non-metering Edge Devices
3	Non-metering Edge Devices
4	Non-metering Edge Devices
5	Non-metering Edge Devices
6	Non-metering Edge Devices
7	Non-metering Edge Devices
8	Non-metering Edge Devices
ST	***Non-metering Edge Devices***
1	System Test Fixtures
2	System Test Fixtures
3	System Test Fixtures
4	System Test Fixtures

ST	***System Test Fixtures***
1	Spare Parts
2	Spare Parts
3	Spare Parts
4	Spare Parts
5	Spare Parts
6	Spare Parts
7	Spare Parts
8	Spare Parts
9	Spare Parts
10	Spare Parts
ST	***Spare Parts***
1	Non-displacement Water Meters w/AMI
2	Non-displacement Water Meters w/AMI
3	Other Misc Hardware
4	Other Misc Hardware
5	Other Misc Hardware
6	Other Misc Hardware
7	Other Misc Hardware
8	Other Misc Hardware
9	Other Misc Hardware
10	Other Misc Hardware
ST	***Other Misc Hardware***
Total	***All Hardware***

Item	**Area**
1	Field Devices
2	Field Devices

3	Field Devices
4	Field Devices
5	Field Devices
ST	***Field Devices***
1	Field Materials
2	Field Materials
3	Field Materials
4	Field Materials
4b	Field Materials
5	Field Materials
6	Field Materials
7	Field Materials
8	Field Materials
9	Field Materials
10	Field Materials

ST	***Field Materials***
Total	***All Field Materials***

Item	Area
1	Integration Services Support
2	Billing System Integration
3	WOMS Integration to Billing System
4	GIS LAT/LON Integration
5	Customer Portal Integartion (VertexOne)
6	Customer Portal Integartion (Tyler ERP Pro 9) One Time Setup Fe
7	Pressure Profile Application (One time setup)
8	Pressure Profile with Placement Plan

9	Alert and Message Manager (AMM)(One time setup)
ST	***System Integrations***
Total	***System Integrations Delivery Services***

Item	**Area**
1	Systems Training (Head-End, Comms, Portal etc)
2	Field Training
3	Tools Training
4	Other (specify)
5	Other (specify)
6	Other (specify)
ST	***Training Delivery Services***
Total	***Training Delivery Services***

Item	**Area**
1	Program & Project Management

2	Business Process Support
3	Project Delivery Support
4	Ad-hoc Analytical Services (if applicable)
5	NaaS One Time Setup (if applicable)
6	SaaS One Time Setup (if applicable)
7	Other (specify)
8	Other (specify)
9	Other (specify)
ST	***Supplier Project Delivery Services***
Total	***Supplier Project Delivery Services***

Item	**Area**
1	Field Install of Water Meters w/ AMI
2	Field Install of Water Meters w/ AMI
3	Field Install of Water Meters w/ AMI
4	Field Install of Water Meters w/ AMI
5	Field Install of Water Meters w/ AMI
6	Field Install of Water Meters w/ AMI
7	Field Install of Water Meters w/ AMI
8	Field Install of Water Meters w/ AMI
ST	***Field Install of Water Meters w/ AMI***
1	Field Retrofit of Meters w/AMI
ST	***Field Installation Meter Retrofits w/ AMI Module***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6

ST	***Field Install of Water System Metering Retrofit Option***
1	Well #1 flow meter
2	Well #2 flow meter
3	Well #3 flow meter
4	Well #4 flow meter
5	Well #5 flow meter
6	Outflow meter #6
ST	***Field Install of Water System Metering Replace Option***
1	Electric Meters w/AMI
2	Electric Meters w/AMI
3	Electric Meters w/AMI
4	Electric Meters w/AMI
5	Electric Meters w/AMI
6	Electric Meters w/AMI
7	Electric Meters w/AMI
8	Electric Meters w/AMI
9	Electric Meters w/AMI
ST	***Field Install of Electric Meters***
1	Field Install of Communications
2	Field Install of Communications
3	Field Install of Communications
4	Field Install of Communications
5	Field Install of Communications
6	Field Install of Communications
ST	***Field Install of Communications***
1	Field Install Non-Metering Edge Devices
2	Field Install Non-Metering Edge Devices
3	Field Install Non-Metering Edge Devices
4	Field Install Non-Metering Edge Devices

5	Field Install Non-Metering Edge Devices
ST	***Field Install Non-Metering Edge Devices***
1	Field Installation Project Management
2	Installation Stand-down cost
3	WOMS Integration to Billing System
4	Other (specify)
5	Other (specify)
ST	***Field Install Project Management***
1	Meter Box & Lid Replacement (single meter in box)
2	Meter Box & Lid Replacement (dual meter in box)
3	Meter Lid Replacement
4	Meter Lid Drilling
5	Meter Box Grading (significant below/above grade)
6	Meter Box Repositioning
7	Curb Stop Replacement
8	Meter yoke / riser replacement
9	Other box related (vacuum sand)
10	Plumbing Repairs / Plumbing connections repairs
11	Electrical Meter Base Repairs
ST	***Field Remediations Services***

1	Warehousing Services
2	Warehousing Services
3	Warehousing Services
4	Warehousing Services
ST	***Warehousing Services***
1	Water Meter Disposal
2	Water Meter Recycling
3	Electric Meter Disposal
4	Hazardous Waste Disposal
5	Other (specify)
6	Other (specify)
7	Other (specify)
ST	***Material Recycling & Disposal***
1	Miscellaneous
2	Miscellaneous
3	Miscellaneous
4	Miscellaneous
5	Miscellaneous
ST	***Miscellaneous***
Total	***Field Installation Services***

T	**Total One-Time Pricing**

Hardware (One Time Pricing as Requ

Description	Quantity	Unit Price
Mechanical Measurement Water Meters w/ AMI - Pricing with Si		
5/8 x 3/4" inch	0	$257.50
1" inch	0	$342.50
1.5" inch	0	$619.19
2" inch	0	$817.97
3" inch	0	$1,343.65
4" inch	0	$2,496.02
Other (specify)		
Subtotal	***0***	
No Moving Parts (Ultrasonic/Electromagnetic) Water Meters w/AMI - Pricin		
5/8 x 3/4" inch	2,160	$248.19
1" inch	250	$332.60
1.5" inch	36	$1,688.26
2" inch	85	$1,913.92
3" inch	7	$2,545.68
4" inch	8	$3,970.31
Other (specify)		
Subtotal	***2,546***	
Meter Retrofits w/ AMI M		
Module for Kamstrup FlowIQ (2100 and 3101 models)	500	$145.00
	500	
Meter with Remote Disconnect Opti		
5/8 x 3/4" inch	240	$540.61
Subtotal	***240***	
Water System Points Metering Option (RET		
Water Specialties 6-inch Serial No 902296 (retrofit)	1	$154.41
Water Specialties 6-inch Serial No 20121600-06 (retrofit)	1	$154.41
Water Specialties 10-inch Serial No 902298-10 (retrofit)	1	$154.41
Water Specialties 12-inch Serial No 20083006-12 (retrofit)	1	$154.41
Krohne Serial 12-inch C102929 (retrofit)	1	$154.41
Krohne Serial 10-inch No C10-1542 (retrofit)	1	$154.41
Subtotal	***6***	

Water System Points	Metering Option (RE
Water Specialties 6-inch Serial No 902296 (replace)	0	$5,311.43
Water Specialties 6-inch Serial No 20121600-06 (replace)	0	$5,311.43
Water Specialties 10-inch Serial No 902298-10 (replace)	0	$7,330.00
Water Specialties 12-inch Serial No 20083006-12 (replace)	0	$7,954.29
Krohne Serial 12-inch C102929 (replace)	0	$7,954.29
Krohne Serial 10-inch No C10-1542 (replace)	0	$7,330.00
Subtotal	***0***	
Electric Meters w/ AMI (Meter R		
2S CL200	2,592	$142.51
2S CL320	32	$157.36
3S CL20	4	$221.30
4S CL20	16	241.05
9S CL20	52	$640.19
9S CL20 (N0 K Switch -kVA, Power Factor, and Kvar Measurements)	0	$575.52
12S CL200	36	170.15
16S CL320	100	$689.90
16S CL20 (N0 K Switch -kVA, Power Factor, and Kvar Measurements)	0	$625.12
25S CL200	0	170.15
36S KV2C (Previously stated as 46S CL20)	56	$638.19
36S CL20 480V (No K Switch - kVA, Power Factor, kvar measurements)	0	$589.64
Subtotal	***2,888***	
Communications (Collectors, Gateways, Repeate		
Network collection points (e.g. Gateways/collectors)	0	
Network transceivers	0	
Network repeaters	0	
Backhaul	0	$34,108.71

Network support for Test Environment Option	0	
Cellular (if applicable, specify)	0	
Other (specify)	0	
Subtotal	***0***	
		Distribution Automation O
Voltage Regulators	0	
Faulted Circuit Indicator (FCI)	0	
Recloser	0	
Capacitor Bank Controllers	0	
DA Hardware	0	
DA Software	0	
Renewables/DER Support	0	
Integration services if needed	0	
Other (specify)	0	$1,424.85
Other (specify)	0	$2,825.99
Other (specify)	0	$4,275.43
Subtotal	***0***	
		Non-metering Edge Devices (e.g. Intelligen
Intelligent water level sensors	0	$1,200.00
Water temperature sensors	0	$850.00
Water pressure sensors	0	$1,200.00
Acoustic leak detection sensors	0	$1,726.67
Intelligent Edge Gateway	3	$339.83
Streetlight Controller	0	
Other (specify)		
Other (specify)		
Subtotal	***3***	
		System Test Fixtures (Water, Electric, Gas test and d
Water Test & Demonstration Fixture	1	$12,500.00
Electric Test & Demonstration Fixture	0	
Other (specify)		
Other (specify)		

Subtotal	***1***	
		Spare Parts
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
		Other Misc Hardware
5/8 x 3/4” inch METAL BODY	0	$ 292.75
1” inch METAL BODY	0	$ 350.90
Other (specify) - Others as applicable		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
Total		

Materials (One Time Pricing as Requ

Description	Quantity	Unit Price
		Field Devices (E.g. Handhelds, Meter Re
Handheld units to read meters locally	3	$937.50
Devices to troubleshoot/program/upgrade meters locally	3	$882.99

Other (specify)	3	$273.85
Other (specify)	3	$532.25
Other (specify)	3	$10.00
Subtotal	***15***	
Field Materials (E.g. magnets, bolts, screws, seals, locks, doorhangers, maile		
Lid Only for DFW1200 W/ Hole	1330	$10.60
Lid Only for DFW1600 box W/Hole	70	$20.25
Water Meter boxes and lids for single meter box	1330	$22.75
Hourly Rate for Plumbing Reparis (Per Hour)	0	$187.50
Hourly Rate for Licensed Electrician (Per Hour)	0	$187.50
Meter yokes	1960	$19.00
Mailers for customer notification	5450	$2.00
Doorhangers for customer notification	5450	$0.67
Double meter box with lid	70	$42.26
Curb stop	1960	$76.25
Other (specify)		
DFW1200 PLASTIC METER BOX LESS LID		$14.20
DFW1200CIR 12X17 RECT STD LID		$15.80
DFW 1800F-18-BODY MTR BOX BODY		$84.85
DFW 1200.1.LID (SOLID BLACK)		$11.50
012-12 BLACK MB 4MH 00122010		$93.40
CARSON FLSH CIR COVER 00124008		$50.65
CARSON 1419-6 BLACK EXTENSION		$63.65
QUAZITE BOX 11X18X12 TIER 15		$110.00
QUAZITE LID 11X21 MK: WATER		$52.50
AMI ready lid with single hole for single meter box size TRAFFIC RATED (16,000 axle lbs) - DFW37C LID		$51.00
Traffic rated single box (16,000 axle lbs) - DFW37C BOX		$77.10
AMI ready lid with 2-hole (side-by-side, not diagonal) for double meter box size TRAFFIC RATED (16,000 axle lbs) - DFW39C LID		$54.00

Traffic rated double meter box (16,000 axle lbs) - DFW39C BOX		$88.55
Subtotal	***17,620***	
TOTAL		

System Integration Delivery Services (One Time P

Description	Quantity	Unit Price
System Integrations and Applications (One Time Pricir		
Proposer to define	0	$0.00
Proposer to define	0	$0.00
Proposer to define	1	$5,333.33
Proposer to define	0	$0.00
Proposer to define	0	$56,500.00
Standard integration to support consumption interval read data from Sensus into Tyler ERP Pro 9 customer portal. Assume this will not include alerts or alarms. Please include assumptions associated with your pricing.	1	$10,500.00
Pressure profile application (One time setup fee)	0	$10,000.00
	0	$10,000.00

The ability to send notifications to certain City staff groups based on alerts/alarms	1	$9,250.00
Subtotal	***3***	
TOTAL		

Training Delivery Services (One Time Pricing

Description	Quantity	Unit Price
Training Delivery Services (One Time Pricing as F		
Proposer to define	0	$10,000.00
Proposer to define	0	$3,000.00
Proposer to define	0	$2,000.00
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

Supplier Project Delivery Services (One Time Pri

Description	Quantity	Unit Price
Supplier Project Delivery Services (One Time Pricing		
Proposer to define	1	$90,500.00

Support for re-engineering existing processes as needed to support the AMI solution		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define		
Proposer to define	0	$36,701.10
Proposer to define		
Proposer to define		
Subtotal	***1***	
TOTAL	***1***	

Field Installation Services (One Time Pricing

Description	Quantity	Unit Price
Field Installation of Water Meters wi		
5/8 x 3/4” inch	2,400	$65.00
1” inch	250	$65.00
1.5” inch	36	$296.25
2” inch	85	$296.25
3” inch	7	$493.44
4” inch	8	$1,011.88
Other (specify)		
Other (specify)		
	2,786	
Field Installatin of Meter Retrofits w		
Module for Kamstrup FlowIQ (2100 and 3101 models)	500	$50.00
	500	
Field Installation of Water System Meteri		
Water Specialties 6-inch Serial No 902296 (retrofit)	1	$100.00
Water Specialties 6-inch Serial No 20121600-06 (retrofit)	1	$100.00
Water Specialties 10-inch Serial No 902298-10 (retrofit)	1	$100.00
Water Specialties 12-inch Serial No 20083006-12 (retrofit)	1	$100.00
Krohne Serial 12-inch C102929 (retrofit)	1	$100.00
Krohne Serial 10-inch No C10-1542 (retrofit)	1	$100.00

	6	
Field Installation of Water System Meter		
Water Specialties 6-inch Serial No 902296 (replace)	0	
Water Specialties 6-inch Serial No 20121600-06 (replace)	0	
Water Specialties 10-inch Serial No 902298-10 (replace)	0	
Water Specialties 12-inch Serial No 20083006-12 (replace)	0	
Krohne Serial 12-inch C102929 (replace)	0	
Krohne Serial 10-inch No C10-1542 (replace)	0	
	0	
Field Installation of Electric		
2S CL200	2592	$43.75
2S CL320	32	$43.75
3S CL20	4	$72.50
4S CL20	16	$72.50
9S CL20	52	$72.50
12S CL200	32	$43.75
16S CL320	100	$51.25
25S CL200	4	$72.50
46S CL20	56	$72.50
	2,888	
Field Installation of Commun		
Network Collection Point Installation	2	$22,500.00
Network Repeater Installation	0	
Backhaul Infrastructure (If applicable)	0	$0.00
Other (specify)		
Other (specify)		
Other (specify)		
	2	
Field Installation of Non-Metering		
Install Intelligent Water Sensors	0	
Install Intelligent Sensor Gateways	3	$100.00
Other (specify)		
Other (specify)		

Other (specify)		
	3	
Field Installation Project Man		
Proposer to define	1	$13,333.33
Cost Per Day of Stand Down	0	$5,348.00
Integration Costs and File Update Costs during project	0	$5,333.33
Proposer to define		
Proposer to define		
	1	
Field Remediations Services (pump box, box repla		
Proposer to define	1,344	$73.33
Proposer to define	70	$93.33
Proposer to define	1400	$4.00
Proposer to define	14	$6.67
Proposer to define	0	$73.33
Proposer to define	700	$93.33
Proposer to define	1960	$173.33
Proposer to define	1960	$53.33
Proposer to define	700	$50.67
The price per hour for a Licensed Plumber	280	$187.50
The price per hour for Licensed Electrician	280	$187.50
Subtotal	***8,708***	
Warehousing Service		

Warehousing for Mass Deployment	1	$1,700.00
Conex cost per month during project	24	$460.00
Other (specify)		
Other (specify)		
Subtotal	***25***	
		Material Recycling & Disp
Proposer to define	1	$3.00
Proposer to define	2786	-$3.00
Proposer to define	2888	$3.00
Proposer to define	25	$2.00
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***5,700***	
		Miscellaneous
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Other (specify)		
Subtotal	***0***	
TOTAL		

Total	

uired per Specifications)

Total	City Comments / Clarifications
ngle Port AMI Module (Meter Replacements)	
$0.00	brass body meter
$0.00	brass body meter
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
g with Single Port AMI Module (Meter Replacements)	
$536,090.40	Lay length is standard 5/8x3/4 (No full 3/4 meters); Polymner Body 90% of contract qty as iPERL+, 10% as Ally
$83,150.00	Polymer Body
$60,777.36	
$162,683.20	
$17,819.76	
$31,762.48	
$0.00	
$892,283.20	
odule	
$72,500.00	
$72,500.00	
on (5/8 x 3/4")	
$129,746.40	Purchasing 10% of the RFP 5/8x3/4 inch as Ally meters instead of the original RFP qty of 12
$129,746.40	
ROFIT existing meters)	
$154.41	
$154.41	
$154.41	
$154.41	
$154.41	
$154.41	
$926.46	

PLACE existing meters)	
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	
eplacements)	
$369,385.92	
$5,035.52	
$885.20	
$3,856.80	
$33,289.88	
$0.00	Lower Cost Reduced Functions Option
$6,125.40	RFP contained four 25S CL200 meters. It has been confirmed these can be replaced with 12S CL200 meters. Therefore, the RFP qty of 12S CL200 meters has increased from 32 to 36.
$68,990.00	
$0.00	Lower Cost Reduced Functions Option
$0.00	These are included in the 12S CL200 line item. RFP contained four 25S CL200 meters. It has been confirmed these can be replaced with 12S CL200 meters. Therefore, the RFP qty of 12S CL200 meters has increased from 32 to 36.
$35,738.64	RFP listed this item as 46S CL20. It has been confirmed these can be replaced with Aclara 36S KV2C therefore the item description was updated.
$0.00	Lower Cost Reduced Functions Option
$523,307.36	
s, Radios, Base Stations etc)	
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Proposer to define.
$0.00	Tower/Base station/etc. equipment **(Included in NaaS Pricing)**

$0.00	No test environment option is requested
$0.00	Specify any field equipment if required for cellular option. Monthly cell charges are to be listed under Recurring Misc. This includes all necessary backhaul associated charges/equipment such as modem, airtime etc.
$0.00	
$0.00	
ptions	
$0.00	No DA options are requested
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
: Water Level Sensors)	
$0.00	
$0.00	
$0.00	
$0.00	
$1,019.49	3 Intelligent Gateway to be used with the existing 4-20ma sensors at the 2 existing waters towers and the planned 3rd water tower
$0.00	
$0.00	
$0.00	
$1,019.49	
emo boards, carts and fixtures)	
$12,500.00	
$0.00	
$0.00	
$0.00	

$12,500.00	
$0.00	Proposer to recommend
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	Complete Price Metal iPerl with 520M Smartpoint City decided on polymer instead of metal
$0.00	Complete Price Metal iPerl with 520M Smartpoint City decided on polymer instead of metal
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$1,632,282.91	

uired per Specifications)

Total	City Comments / Clarifications
eading devices etc)	
$2,812.50	Proposer to indicate recommended quantities for this size implementation.
$2,648.96	Proposer to indicate recommended quantities for this size implementation.

$821.55	
$1,596.75	
$30.00	
$7,909.76	
ers, postcards, water box, lids, waste & spoils, salvage)	
$14,098.00	
$1,417.50	
$30,257.50	
$0.00	Moved to field remediation services
$0.00	Moved to field remediation services
$37,240.00	3/4" Meter Yoke
$10,900.00	Per unit as approved. Water deployed first, electric second therefore need 2 noficiations for most accounts. 2*2800 = 5600 then removed ~150 water only accounts
$3,651.50	Per unit as approved. Water deployed first, electric second therefor need 2 noficiations for most accounts. 2*2800 = 5600 then removed ~150 water only accounts
$2,958.20	
$149,450.00	Ford 3/4" Curbstop
$0.00	
$0.00	DFW 1200 box no Lid
$0.00	DFW 1200 Lid with Cast Iron Reader
$0.00	DFW1800 tall.
$0.00	This is the Lid that fits 1800 Box Above
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

$0.00	
$0.00	
$249,972.70	
$257,882.46	

ricing as Required per Specifications)

Total	City Comments / Clarifications
g as Required per Specifications)	
$0.00	Integrations as noted in RFP
$0.00	Integrations as noted in RFP
$5,333.33	This price was included under Field Installation. It has been moved to this section.
$0.00	The ability for a simple, manual export of GIS data from the Sensus architecture is included at no cost. To be clear, this would be a data file extract, not an actual live integration with a secondary system.
$0.00	Integrations as noted in RFP
$10,500.00	Please provide pricing for a standard integration to support consumption interval read data from Sensus into Tyler ERP Pro 9 customer portal. Assume this will not include alerts or alarms. Please include assumptions associated with your pricing. NOTE: This is for both electric and water. It is typically 1 hour intervals for both (delivered every 4 hours).
$0.00	This was originally in the Recurring Sheet but has been moved to the One Time sheet. City has decided this is too costly for the benefit.
$0.00	This was originally in the Recurring Sheet but has been moved to the One Time sheet City is not purchasing stand alone sensors rather will be using all Cordonel for larger meters and 10% of the 5/8x3/4 population as Ally meter.

$9,250.00	This was originally in the recurring pricing sheet and has been moved to the one time pricing sheet. Please provide pricing for standalone Alert and Message Manager. No integrations are required. Nothing sent to work order or outage management etc. The ability to send notifications to certain City staff groups based on alerts/alarms
$25,083.33	
$25,083.33	

as Required per Specifications)

Total	City Comments / Clarifications
Required per Specifications)	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	

cing as Required per Specifications)

Total	City Comments / Clarifications
as Required per Specifications)	
$90,500.00	

$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	City is not requesting this service
$0.00	
$0.00	
$90,500.00	
$90,500.00	

as Required per Specifications)

Total	City Comments / Clarifications
th AMI modules	
$156,000.00	
$16,250.00	
$10,665.00	
$25,181.25	
$3,454.08	
$8,095.04	
$0.00	
$0.00	
$219,645.37	
/ AMI Module	
$25,000.00	
$25,000.00	
ng RETROFIT Option	
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter
$100.00	Retrofit existing meter

$600.00	
ing REPLACE Option	
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	City has decided to retrofit, not replace
$0.00	
Meters	
$113,400.00	
$1,400.00	
$290.00	
$1,160.00	
$3,770.00	
$1,400.00	
$5,125.00	
$290.00	
$4,060.00	
$130,895.00	
ications	
$45,000.00	This is correct, it is a one-time upfront installation cost. It could be rolled into NaaS reoccurring if desired but might result in an increase. Decision is to leave here.
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$45,000.00	
Edge Devices	
$0.00	Provide pricing should City desire to install gateways & sensors in the field
$300.00	
$0.00	
$0.00	

$0.00	
$300.00	
agement	
$13,333.33	
$0.00	Quantity of 0; No charge unless event occurs
$0.00	This has been moved to the integration section
$0.00	
$0.00	
$13,333.33	
cement, meter base repairs)	
$98,560.00	Per unit as approved.
$6,533.33	Per unit as approved.
$5,600.00	Per unit as approved.
$93.33	Per unit as approved. Only required for exceptions that may not be replaced. Provide itemized labor
$0.00	Per unit as approved. Provide itemized labor (per City standards) pricing
$65,333.33	Per unit as approved. Provide itemized labor (per City standards) pricing
$339,733.33	Per unit as approved. Provide itemized labor and material (per City standards) pricing This is labor only
$104,533.33	Per unit as approved.
$35,466.67	Per unit as approved. Provide itemized labor and material (per City standards) pricing
$52,500.00	Per unit as approved. Provide itemized labor and material (per City standards) pricing. Local licensed plumber to be used
$52,500.00	Per unit as approved. Local licensed electrician to be used
$760,853.33	
s	

$1,700.00	City can provide access to telehandler, forklift but supplier would provide their own pallet jack. Vendor to supply Conex box, city to provide secure location.
$11,040.00	
$0.00	
$0.00	
$12,740.00	
osal	
$3.00	Per water Meter Disposal fee if non-recyclable (non-Bronze Body)
-$8,358.00	Per Water Meter Recylce Credit for Bronze Body Water Meters
$8,664.00	Per Electric Meter Disposal fee for electric meters after any batteries, other waste removed.
$50.00	Per pound disposal for Hazardous waste (Batteries, LCD Displays, Etc.)
$0.00	
$0.00	
$0.00	
$359.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$0.00	
$1,208,726.04	

$3,214,474.74	

Proposer Comments / Clarifications
SRII E-Reg w/ Sensus 520M SmartPoint
SRII E-Reg w/ Sensus 520M SmartPoint
Sensus OMNI+ R2 w/ Sensus 520M SmartPoint
Sensus OMNI+ R2 w/ Sensus 520M SmartPoint
Sensus OMNI+ T2 Turbine Meter w/ Sensus 520M SmartPoint
Sensus OMNI+ T2 Turbine Meter w/ Sensus 520M SmartPoint
Sensus iPERL+ Smart Water Meter w/ Sensus 520M SmartPoint
Sensus iPERL+ Smart Water Meter w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus Cordonel Ultrasonic w/ Sensus 520M SmartPoint
Sensus 522M SmartPoint w/ Itron Connector
Sensus ally Smart Water Meter w/ Sensus 520M SmartPoint
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.
Sensus 512M SmartPoint. Meter must have 4-20 mA output.

Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.
Direct Replacement for Existing Meter w/ Sensus 512M SmartPoint.

Stratus IQ+, WITH Remote Disconnect
Stratus IQ+, no Remote Disconnect
Stratus IQ+, no Remote Disconnect
Stratus IQ+, no Remote Disconnect Has kVA and Kvar Measurements
Aclara KV2C, No Remote Disconnect Has K Switch - kVA, Power Factor, and Kvar Measurements
Aclara KV2C, No Remote Disconnect (less K Switch)
Stratus IQ+, WITH Remote Disconnect
Aclara KV2C, No Remote Disconnect Has K Switch - kVA, Power Factor, and Kvar Measurements
Aclara KV2C, No Remote Disconnect (less K Switch)
Stratus IQ+, WITH Remote Disconnect
Aclara 36S KV2C, No Remote Disconnect Has K Switch-kVA, Power Factor, and Kvar Measurements
Aclara 36S KV2C, No Remote Disconnect (less K Switch)

N/A
N/A
N/A
A quantity of 2 Sensus M420B Base Stations with battery backup are included in the NaaS pricing

Will need further discussion with Sensus Proffessional Services.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
More information will be needed to get accurate pricing.
Interfaces w/ reclosure controllers, cap bank controllers, voltage regulators, etc. (provided and spec'd by customer)
Interfaces w/ Hortsmann PDP Smart Navigator FCI (provided and spec'd by customer)
Interfaces with analog and digital sensors (provided and spec'd by customer)
MJK Level Sensosr and Sensus Smart Gateway
Keller Temperature Sensor and Sensus Smart Gateway
Keller Pressure Sensor and Sensus Smart Gateway
PermaLog+ Acoustic Leak Sensor
Sensus Smart Gateway
Not able to provide a product for this device.
Test & Demonstration Fixture for both Water & Electric
See above.

Sensus iPERL+ Smart Water Meter w/ Sensus 520M SmartPoint

Sensus iPERL+ Smart Water Meter w/ Sensus 520M SmartPoint

Proposer Comments / Clarifications

Android Tablet with FieldLogic Tools Software, not necessary if Android Tablets are already being used.

Sensus CommandLink II

Sensus Field Logic Communicator Package	
Sensus TouchReader Plus Visual Display	
USB-C Adapter	
AMI ready lid with hole (DFW1200) for Single meter box - standard size, standard duty, not traffic rated. Darrin confirmed this is NOT traffic rated	
AMI ready lid with 2 holes (side-by-side, not diagonal) (DFW1500) for dual meter box - standard size, standard duty, not traffic rated. Darrin confirmed this is NOT traffic rated	
Single meter box (DFW1200) with AMI read lid (DFW1200) with hole, standard size, standard duty, not traffic rated. Darrin confirmed this is NOT traffic rated	
Like for like = $0; If broken/leaking or wrong size then quote on hourly rate for labor portion, owners allowance $ amount with quote; handle with contingency. Consider hourly rate with City providing parts.	
Dual meter box (DFW1600) with dual AMI ready lid with 2 holes (side-by-side, not diagonal) (DFW1500) . Dual size, standard duty, not traffic rated. Darrin confirmed this is NOT traffic rated	
Not a typical stocked item, would need to be ordered. Darrin to check on lead times.	Needs re-visited, initial order qty v
Darrin to check on lead times	Needs re-visited, initial order qty v
Darrin to check on lead times	Needs re-visited, initial order qty v
Darrin to check on lead times	Needs re-visited, initial order qty v

Darrin to check on lead times	Needs re-visited, initial order qty v

Proposer Comments / Clarifications
Standard Integration included with NaaS Costs
VertexOne Setup Costs
This is not a re-occurring fee, this is the one-time fee.
Pressure Profile Mapping Software in SA. One time setup, not re-occurring
This is not a re-occurring fee, this is the one-time fee. Its only charged during the deployment plan or if ever revisited in the future (e.g. 5 years)

City declined

This is not a re-occurring fee, this is the one-time fee.

Proposer Comments / Clarifications
Training included in NaaS Costs
Training included in NaaS Costs
Training included in NaaS Costs

Proposer Comments / Clarifications
Program/ Project Management for duration of project through Core & Main.

Included in program/project management fee.
Included in program/project management fee.
Included in Integration/Setup Fees, as well as BackHaul Installation.
Included in NaaS Pricing
Outreach Services: Customer Engagment Plan, AMI Day Support Services (One Event), City Commission Meeting Support (One Meeting), Notification Development|Distribution, Door Hanger Development | Corrdination with Installer

Proposer Comments / Clarifications
Like for Like Installation
Like for Like Installation
Like for Like Installation
Like for Like Installation
Like for Like Installation
Like for Like Installation
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint
Installation of Sensus 512M SmartPoint

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

To be installed by the city. Pricing can be given upon further inspections of sites.

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Like for Like Installation

Installation of Network Infrastructure

N/A

Sensors to be installed by City. With guidance from Core & Main.

Installation of Sensus Smart Gateway

Like for like = $0; If broken/leaking or wrong size then quote on hourly rate for labor portion, owners allowance $ amount with quote; handle with contingency. Consider hourly rate with City providing parts.

Supplier will have 2 of the 40 foot Conex (1 for meters, 1 for disposal).
Initial setup cost of $1700 for both Conex.

There will be an ongoing cost of $460 per month while in use.
Water occurring first, Electric occurring second.

vill be based on lead time

vill be based on lead time

vill be based on lead time

vill be based on lead time

vill be based on lead time

Item	Annual Service Fee	Monthly Fee	Yearly
1	Year 1		$15,000.00
2	Year 2		$17,950.00
3	Year 3		$18,488.50
4	Year 4		$19,043.16
5	Year 5		$19,614.45
6	Year 6		$20,202.88
7	Year 7		$20,808.97
8	Year 8		$21,433.24
9	Year 9		$22,076.24
10	Year 10		$22,738.52
ST	***Total Service Fees for Years 1–10***		***$0.00***

Software and Ne

Item	Annual Service Fee	Monthly Fee	Yearly
1	Year 1		$48,635.00
2	Year 2		$48,635.00
3	Year 3		$50,094.05
4	Year 4		$51,596.87
5	Year 5		$53,144.78
6	Year 6		$54,739.12
7	Year 7		$56,381.29
8	Year 8		$58,072.73
9	Year 9		$59,814.92
10	Year 10		$61,609.36
ST	***Total Service Fees for Years 1–10***		***$542,723.13***

Item	Device Description	Quantity	Unit Price
1	Extended Warranty Pricing	0	$10,000.00
2	Managed Services 24/7 support if not standard.		
3	Cellular Monthly Charges (if offered)		
4	Test Environment (Head-End, Test Network etc.)		
5	Pressure Profile (One time setup)	0	$20,000.00
5b	Pressure Profile (Recurring Annual Maintenance Fee)	0	$15,000.00
6	Pressure Profile with Placement Plan	0	$10,000.00
7	Alert and Message Manager (AMM)(One time setup)	0	$9,250.00
7a	Alert and Message Manager (AMM)(Annual Maintenance Fee)	1	$1,850.00
8	RNI, Network Command Suite, Basic Outage Service, Data Lake, Se	1	$0.00
9	Customer Portal Integartion (Tyler ERP Pro 9)Annual maintenance	1	$575.00
10			
11			
12			
13			
14			
15			
ST	***Annual Recurring Miscellaneous***		

Customer Portal Fees

City Comments / Clarifications
City has decided to use Tyler Customer Portal

etwork as a Service (SaaS/NaaS) Fees

City Comments / Clarifications

Annual Recurring Miscellaneous

Total
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$1,850.00
$0.00
$575.00
$0.00
$0.00
$0.00
$0.00
$0.00
$0.00
$2,425.00

Proposer Comments / Clarifications
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
VertexOne Customer Portal SaaS Costs
$683,566

Proposer Comments / Clarifications
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.
Installation of infastructure will be priced seperately. Sensus SaaS and NaaS Costs included.

City Comments / Clarifications
No extended warranty pricing is requested at this time
Test environment not requested
This has been moved to the One Time Pricing Sheet
Annual Hosting Fees; City decided this is too costly for benefit
This is not recurring, it has been moved to the One Time pricing sheet.
This is not recurring, it has been moved to the One Time pricing sheet.
Please clarify if this is recurring annual fee is needed given it is a standalone product with the Sensus architecture and is not integrated with any other systems
If any, please provide any recurring annual pricing for a standard integration to support consumption interval read data from Sensus into Tyler ERP Pro 9 customer portal. Assume this will not include alerts or alarms. Please include assumptions associated with your pricing. NOTE: This is for both electric and water. It is typically 1 hour intervals for both (delivered every 4 hours)

Changed from SaaS to customer portal

City declined

Changed from NaaS to Saas/NaaS

Proposer Comments / Clarifications	
Included in payment of SaaS or NaaS fees.	
Included in payment of SaaS or NaaS fees.	
Included in payment of SaaS or NaaS fees.	
Further discussion upon what test environment will be required.	
This has been moved to the One Time Pricing Sheet	
Annual maintenance fee	City declined
Annual maintenance fee	
RNI, Network Command suite, Basic outage service, Data Lake, Service management are all included in RNI pricing. Included in payment of SaaS or NaaS fees.	

Field Rer		
Item	**Estimated Percent**	**Estimated Qty**
MATERIALS		
Lid Only: Single meter box size (material)	48%	1330
Lid Only: Double meter box size (material)	2.5%	70
Meter Box with lid: Single meter box size (material)	48%	1330
Meter Box with lid: Double meter box size (material)	2.5%	70
Curb Stop Replacement (material)	70%	1960
Yoke Replacement (material)	70%	1960
DFW 1800F-18-BODY MTR BOX BODY		0
AMI ready lid with single hole for single meter box size TRAFFIC RATED (16,000 axle lbs) - DFW37C LID		0
Traffic rated single box (16,000 axle lbs) - DFW37C BOX		0
AMI ready lid with 2-hole (side-by-side, not diagonal) for double meter box size TRAFFIC RATED (16,000 axle lbs) - DFW39C LID		0
Traffic rated double meter box (16,000 axle lbs) - DFW39C BOX		0
LABOR		
Replace meter box lid any size (labor)	50%	1400
Meter Box Lid Drilling (labor)	1%	14
Vacuum Sand/Water from Meter Boxes (labor)	25%	700
Curb Stop Replacement (labor)	70%	1960
Yoke Replacement (labor)	70%	1960
Meter Box - Reposition labor (reuse exising box)	25%	700
Meter Box & Lid Replacement single size (labor)	48%	1344
Meter Box & Lid Replacement dual size (labor)	2.5%	70
Electric repairs	10%	280
Water repairs	10%	280
Comparative Pricing		

Estimated quantities to be reviewed later

mediation Items

Unit	Extended	Notes	
$10.60	$14,098		
$20.25	$1,418		
$22.75	$30,258		
$42.26	$2,958		
$76.25	$149,450	Ford 3/4" Curbstop	
$19.00	$37,240		
$84.85	$0		
$51.00	$0		
$77.10	$0		
$54.00	$0		
$88.55	$0		
	$235,421		
$4.00	$5,600		
$6.67	$93		
$50.67	$35,467		
$173.33	$339,733	This is a labor only price see materials above	
$53.33	$104,533		
$93.33	$65,333		
$73.33	$98,560		
$93.33	$6,533		
$187.50	$52,500		Assume 5%
$187.50	$52,500		Assume 5%
	$760,853		
$996,275			

Total Water	2800
Total Electric	2800

require repair but enter 10% as each will likely be 2 hours long

require repair but enter 10% as each will likely be 2 hours long

Section 24.2.3: F

Resource	Title	Hourly Rate	
1	Sensus Professional Services	$468.75	
2	Additional Sr. Project Manager	$206.25	
3	Additional Project Coordinator/Smart Grid Systems Specialist	$140.00	
4	Additional Grid Systems Administrator	$122.50	
5			

ees for Additional Requested Services

City Comments / Clarifications

Proposer Comments / Clarifications
Service to perform any non-standard integrations, etc.
Provided by WeProject
Provided by WeProject
Provided by WeProject

Item	Payment Description
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Table 23-1: Proposed Payment Te

Time Frame for Proposed Payment

rms

Proposer Comments
To be discussed during negotiations.

This sheet represents electric meter pricing as of 2025-02-13 fo

Seq#	Qty	Description	Units
10		ELECTRIC METER PRICING:	
30		NORMAL REMOTE DISCONNECT	
40		PRICING AFTER THE CONTRACT	
50		ENDS	
60	1	2S RD	EA
70	1	12S RD	EA
80		OPTIONAL EXTENDED	
90		WARRANTY FOR THE METERS	
100		ABOVE (4 YEARS FROM THE	
110		INITIAL 1 YEAR WARRANTY)	
120		*NOT INCLUDED IN BASE	
130		METER PRICING	
140	1	2S RD	EA
150	1	12S RD	EA
160		**PRICING ON ELECTRIC	
170		METERS ASSUMES PALLET	
180		QUANTITY ORDERS	

or electric meters and extended warranty purchased outside of the AM

	Price	Ext Price
A	205.00	205.00
A	225.25	225.25
A	8.25	8.25
A	9.00	9.00

II Project Contract

Network as a Service, Software as a Service, and Spectrum Lease Agreement

between

CITY OF WAUCHULA
("Customer")

and
Sensus USA Inc.
("Sensus")

IN WITNESS WHEREOF, the parties have caused this Software as a Service and Spectrum Lease ("Agreement") to be executed by their duly authorized representatives as of the day and year written below. The date of the last party to sign is the "Effective Date."

This Agreement shall commence on the Effective Date and continue for/until: 10 Years ("Initial Term"). At the end of the Initial Term, this Agreement shall automatically renew for an additional term of 10 years ("Renewal Term"). The "Term" shall refer to both the Initial Term and the Renewal Term.

This Agreement contains two parts:

> Part (1) is The FCC Notification for Spectrum Manager Lease, to be filed with the FCC by Sensus on behalf of the Customer and Part (2) is a Network as a Service, Software as a Service, and a Spectrum Lease between Sensus and Customer

Together, these two parts create the Agreement.

Sensus USA Inc.		**Customer: CITY OF WAUCHULA**	
By:	_____	By:	_____
Name:	_____	Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

Contents of this Agreement:

Part 1: Notification for Spectrum Manager Lease
Part 2: Agreement
Exhibit A Software
Exhibit B Technical Support
Exhibit C Network as a Service
Exhibit D Insurance Requirements

Part 1: Notification for Spectrum Manager Lease

In order for Sensus to apply to the FCC on the Customer's behalf for a spectrum manager lease, Customer must complete the information below in boxes one (1) through ten (10) and certify via authorized signature. Customer's signature will indicate that Customer authorizes Sensus to file the spectrum manager lease notification on FCC Form 608 with the Customer as spectrum Lessee, and if Customer does not already have one, ownership disclosure information on FCC Form 602.

1.

Customer/Lessee Name: City of Wauchula		
Attention To: Sandee Braxton	**Name of Real Party in Interest**:	
Street Address: 126 S 7th Avenue		**City**: Wauchula
State: Florida	**Zip**: 33873	**Phone**: 863-773-3131
Fax: 863-773-0773	**Email**: sbraxton@cityofwauchula.com	

Is Customer contact information same as above? ☒**Yes** ☐**No (If No, complete box 2 below)**

2.

Additional Customer/Lessee Contact Information

Company Name:		
Attention To:		
Street Address:		**City**:
State:	**Zip**:	**Phone**:
Fax:	**Email**:	

3.

Customer/Lessee is a(n) (Select one): ☐Individual | ☐ Unincorporated Association | ☐Trust
☒Government Entity | ☐Corporation | ☐ Limited Liability Company | ☐General Partnership
☐Limited Partnership | ☐Limited Liability Partnership | ☐Consortium | ☐ Other _____

4.

FCC Form 602: FCC File Number of Customer's Form 602 Ownership Information: _____. If Customer has not filed a Form 602, Sensus will file one for Customer. Please complete questions 5, 6, and 7 below if Customer does not have a Form 602 on file.
Customer must complete items 8, 9 and 10 irrespective of whether Customer has an ownership report on file.

5.

Customer Tax ID: 59-6000446

6.

Individual Contact For FCC Matters

Please designate one individual (the Director of Public Works or similar person) who is responsible to the FCC for the operation of the FlexNet radio system.		
Name	John M. Eason	
Title:	Deputy City Manager	
Email:	jeason@cityofwauchula.com	Phone: (863)773-3131

7.

Ownership Disclosure Information

If Customer/Lessee is a government entity, list the names of the Mayor and all Council Members below, as well as verify citizenship and ownership interests in any entity regulated by the FCC. Such ownership must be disclosed where a mayor/council member owns 10% or more, directly or indirectly, or has operating control of any entity subject to FCC regulation. If any answer to Ownership question is Yes, or any answer to Citizenship question is No, provide an attachment with further explanation.

	US Citizen?	Ownership Disclosure?
Mayor: Keith Nadaskay Jr.	☒Yes ☐No	☐Yes ☒No
Council Member:Russell Graylin Smith	☒Yes ☐No	☐Yes ☒No
Council Member: Anne Miller	☒Yes ☐No	☐Yes ☒No
Council Member:Sherri Albritton	☒Yes ☐No	☐Yes ☒No

Council Member: Gary Smith	☒Yes ☐No	☐Yes ☒No
Council Member:	☐Yes ☐No	☐Yes ☐No
Council Member:	☐Yes ☐No	☐Yes ☐No
Council Member:	☐Yes ☐No	☐Yes ☐No
Council Member:	☐Yes ☐No	☐Yes ☐No
Council Member:	☐Yes ☐No	☐Yes ☐No

8.

Alien Ownership Questions (if the answer is Yes, provide an attachment explaining the circumstances)

1) Is the Customer/Lessee a foreign government or the representative of any foreign government?	☐Yes ☒No

9.

Basic Qualification Information

1) Has the Customer or any party to this application had any FCC station authorization, license, or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license or construction permit denied by the Commission?	☐Yes ☒No
2) Has the Customer or any party to this filing, or any party directly or indirectly controlling the Customer or any party to this filing ever been convicted of a felony by any state or federal court?	☐Yes ☒No
3) Has any court finally adjudged the Customer or any party directly or indirectly controlling the Customer guilty of unlawfully monopolizing or attempting to unlawfully monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition?	☐Yes ☒No

10.

Customer/Lessee Certification Statements

1) The Customer/Lessee agrees that the Lease is not a sale or transfer of the license itself.	☒Yes
2) The Customer/Lessee acknowledges that it is required to comply with the Commission's Rules and Regulations and other applicable law at all times, and if the Customer/Lessee fails to so comply, the Lease may be revoked, cancelled, or terminated by either the Licensee or the Commission.	☒Yes
3) The Customer/Lessee certifies that neither it nor any other party to the Application/Notification is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C § 862, because of a conviction for possession or distribution of a controlled substance (*See* Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.)	☒Yes
4) The Customer/Lessee hereby accepts Commission oversight and enforcement consistent with the license and lease authorization. The Lessee acknowledges that it must cooperate fully with any investigation or inquiry conducted either by the Commission or the Licensee, allow the Commission or the Licensee to conduct on-site inspections of transmission facilities, and suspend operations at the direction of the Commission or the Licensee and to the extent that such suspension of operation would be consistent with applicable Commission policies.	☒Yes
5) The Customer/Lessee acknowledges that in the event an authorization held by a Licensee that has associated with it a spectrum leasing arrangement that is the subject of this filing is revoked, cancelled, terminated, or otherwise ceases to be in effect, the Customer/Lessee will have no continuing authority to use the leased spectrum and will be required to terminate its operations no later than the date on which the Licensee ceases to have any authority to operate under the license, unless otherwise authorized by the Commission.	☒Yes
6) The Customer/Lessee agrees the Lease shall not be assigned to any entity that is not eligible or qualified to enter into a spectrum leasing arrangement under the Commission's Rules and Regulations.	☒Yes
7)The Customer/Lessee waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by spectrum lease or otherwise.	☒Yes
8) The Customer/Lessee certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.	☒Yes

The Customer/Lessee certifies that all of its statements made in this Application/Notification and in the schedules, exhibits, attachments, or documents incorporated by reference are material, are part of this Application/Notification, and are true, complete, correct, and made in good faith. The Customer/Lessee shall notify Sensus in writing in the event any information supplied on this form changes.

City of WAUCHULA			
By:		Title: City Manager	
Name:	**Olivia Minshew**	Date: 05/13/2025	

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)) AND/OR FORFEITURE (U.S. Code Title 47, Section 503).

1. General

A. Agreement Generally. The scope of this Agreement includes Sensus providing the specified services, usage terms for Sensus' Network as a Service, hosted Software as a Service, leased spectrum, technical support, and supporting terms and conditions for an advanced metering infrastructure ("AMI") solution in consideration of Customer's purchase and payment to Sensus' authorized distributor, Core & Main LP ("C&M"), under a separate agreement by and between Customer and C&M (the "C&M Contract"), for all such goods and services.

2. Software.

A. Software as a Service ("SaaS")

i Sensus shall provide Customer with SaaS, as defined in Exhibit A, and Technical Support during the Term and only so long as Customer is current in its payments for such services under the C&M Contract. Upon the expiration or termination of this Agreement, Sensus will have no obligation to provide any further Services or Technical Support.

ii Sensus will provide Technical Support for any given Release in accordance with Exhibit B for four (4) years from the date Sensus issues the Release. Sensus will provide Engineering Support of any given release for two (2) years from the date Sensus issues the Release. Notwithstanding the foregoing, in the event of a critical security vulnerability (in Sensus' reasonable discretion), Customer acknowledges (i) that in order to receive particular vulnerability or defect corrections (whether by Patch, Update or Upgrade), Customer may need to move to a more recent supported Release of the Software, and (ii) Sensus reserves the right to discontinue supporting Releases of the Software, including in the event such Software has been identified by Sensus as end of life. Sensus may declare Software "end of life" upon either (i) the relevant window of Technical Support or Engineering Support ending or (ii) becoming aware of a security incident or vulnerability.

B. UCITA. To the maximum extent permitted by law, the Parties agree that the Uniform Computer Information Transaction Act as enacted by any state shall not apply, in whole or in part, to this Agreement.

3. Spectrum

A. **Definitions in this Section.** In this Section only, "Sensus" shall mean Sensus USA Inc. and its wholly owned subsidiary, Sensus Spectrum LLC.

B. **Spectrum Lease.** Sensus hereby grants to Customer, and Customer accepts, a spectrum manager lease ("Spectrum Lease") over the frequencies of certain FCC license(s) ("FCC License") solely within Customer's Service Territory. (The frequencies of the FCC License within Customer's geographic Service Territory are called the "Leased Spectrum"). Customer shall pay the Ongoing Fees for use of the Leased Spectrum.

Confidential

C. **FCC Forms.** At the Federal Communications Commission ("FCC"), Sensus will; (1) obtain an FCC Registration Number ("FRN")) for Customer; (2) submit on behalf of Customer the FCC Form 602 Ownership Disclosure Information if Customer has not already done so; and (3) file a FCC Form 608, notification/application for long-term spectrum manager lease. This Lease becomes effective when the FCC accepts the FCC Form 608.

D. **Lease Application.** In order to complete the FCC lease application, Customer will promptly:
   i. Complete and sign the representations in Part 1 of this Agreement such that Customer demonstrates it qualifies for a spectrum lease under FCC rules. Customer's signature will indicate that Customer authorizes Sensus to; (1) obtain an FRN on behalf of Customer; (2) submit the FCC Form 602 Ownership Disclosure Information on behalf of Customer if Customer has not already done so; and (3) file the spectrum manager lease notification on FCC Form 608 with the Customer as spectrum lessee.
   ii. Give Sensus the coordinates of the boundaries of Customer's Service Territory or, alternatively, approve Sensus' estimation of the same.
   iii. If Customer has not already done so; Customer hereby authorizes Sensus to apply on Customer's behalf and obtain for Customer a Federal Registration Number (FRN, the FCC's unique identifier for each licensee) and shall supply Sensus with Customer's Taxpayer Identification Number ("TIN").
   iv. Provide any other information or other cooperation reasonably necessary for the Parties to perform as set forth herein.

E. **Permitted Use of Spectrum Lease and Equipment.** Customer may transmit or receive over the Leased Spectrum only in the Service Territory and only using FlexNet equipment manufactured by Sensus and used in accordance with Sensus' specifications. Customer may use the Leased Spectrum only to read and direct Field Devices or any other operation approved by Sensus in writing. Without limiting the foregoing, Customer is prohibited from reselling, subleasing or sublicensing the FlexNet Equipment and Leased Spectrum, and from transmitting voice communications over the Leased Spectrum. For each piece of RF Field Equipment used by Customer, Customer shall affix a Sensus-supplied label to the exterior of the RF Field Equipment cabinet or other appropriate visible place to indicate that RF operation is conducted under authority of FCC License(s) issued to Sensus.

F. **Term of Spectrum Lease.** Unless terminated earlier (because, for example, Customer stops using the FlexNet equipment or because this Agreement terminates or expires for any reason), this Spectrum Lease will have the same term as the FCC license. If Customer is operating in compliance with this Agreement and is current on any payments owed to Sensus, when the FCC License renews, the Parties will apply to the FCC to renew this Spectrum Lease.

G. **Termination of Spectrum Lease.** The Spectrum Lease will terminate: (a) two months after Customer stops transmitting with FlexNet equipment manufactured by Sensus; (b) upon termination, revocation or expiration of the FCC License; (c) upon Customer's breach of this Agreement; or (d) upon termination or expiration of this Agreement for any reason.

H. **FCC Compliance.** The following FCC requirements apply

i. Pursuant to 47 CFR 1.9040(a);

a. Customer must comply at all times with applicable FCC rules. This Agreement may be revoked by Sensus or the FCC if Customer fails to so comply;

b. If the FCC License is terminated, Customer has no continuing right to use the Leased Spectrum unless otherwise authorized by the FCC;

c. This Agreement is not an assignment, sale or other transfer of the FCC License;

d. This Agreement may not be assigned except upon written consent of Sensus, which consent may be withheld in its discretion; and

e. In any event, Sensus will not consent to an assignment that does not satisfy FCC rules.

ii. Referencing 47 CFR 1.9010, Sensus retains *de jure* and *de facto* control over the applicable radio facilities, including that,

a. Sensus will be responsible for Customer's compliance with FCC policies and rules. Sensus is responsible for engineering the FlexNet equipment and accompanying software and other programs to comply with FCC rules. Customer will operate the FlexNet equipment subject to Sensus' supervision and control and solely in accordance with Sensus' specifications. Sensus retains the right to inspect Customer's radio operations hereunder and to terminate this Agreement or take any other necessary steps to resolve a violation of FCC rules, including to order Customer to cease transmission. Sensus will act as spectrum manager in assigning spectrum under the FCC License so as to avoid any harmful interference or other violation of FCC rules. Sensus will be responsible for resolving any interference complaints or other FCC rule violations that may arise; and

b. Sensus will file any necessary FCC forms or applications and Customer agrees to reasonably assist Sensus with such filing by providing any necessary information or other cooperation. Sensus will otherwise interact with the FCC with respect to this Agreement, the FCC License or FlexNet equipment.

iii. Customer must continue operations on the spectrum during the Term of this Agreement. If Customer stops operations for any period of time, Customer must notify Sensus by sending an email to legal@xyleminc.com. Customer may not pause or discontinue operations for more than 180 days.

I. **Interference.** Customer agrees to report to Sensus promptly, and in no event later than 72 hours afterward, any incident related to the Leased Spectrum, including where Customer experiences harmful interference, receives a complaint or other notice of having caused harmful interference, or receives any type of communication from the FCC or other government agency regarding radio transmission.

4. Network as a Service.

A. Generally. Sensus or C&M shall provide Customer with Network as a Service ("NaaS"), as defined in Exhibit C, but only so long as Customer is current in its payments to C&M.

B. RF Field Equipment. Sensus owns and will continue to own all RF Field Equipment and may use same for its own benefit.

i. **Maintenance of RF Field Equipment**. As a part of NaaS, Sensus shall be responsible for the ongoing maintenance of the RF Field Equipment.

a. For RF Field Equipment not located on Customer's site(s), Sensus shall be responsible for the ongoing monthly operations and expenses related to the RF Field Equipment, including any leasing costs, construction costs, taxes, electricity, WAN Backhaul, and WAN Backhaul communication costs.

b. For RF Field Equipment located on Customer's site(s), and for good and valuable consideration stated in this Agreement, Customer agrees to lease and hereby does lease to Sensus adequate space on each relevant site where Sensus will install and operate Sensus-owned RF Field Equipment. Sensus shall obtain any required permits. Customer will supply electric power to the RF Field Equipment. During any Network Continuation Term, as defined below, Sensus shall pay for electric power to the RF Field Equipment. In the event that electric power is not present at a certain Customer site(s), Sensus shall cover the reasonable costs associated with connecting the Customer's site(s) to the Customer's power supply for operation of the RF Field Equipment.

ii. **Site Access**. Customer shall provide Sensus and/or Sensus' authorized representative with access to all Customer site(s) necessary for Sensus to perform the NaaS, as defined in Exhibit C.

C. Termination of NaaS.

i. Customer may terminate NaaS and migrate to a Customer owned and operated solution prior to the end of the Term by giving Sensus one hundred twenty (120) days' prior written notice. Should Customer elect to terminate NaaS, Customer acknowledges that; (a) Customer shall pay all applicable third party fees, including any unpaid NaaS fees up to the effective date of termination; and (b) Sensus' provision of NaaS to Customer shall cease as of the effective date of termination.

ii. Following termination of NaaS or this Agreement for any reason, Sensus may , at its option, either:

a. continue to mount, install, operate, maintain, use and replace the Network and the RF Field Equipment for use by other Sensus customers ("Network Continuation Rights") for the remaining portion of the Term had this Agreement or NaaS not been terminated (that period of time, the "Network Continuation Term"), according to the standard terms and conditions of the tower antennae lease(s), which Customer agrees to negotiate in good faith and make best efforts to renew or extend the tower antennae lease(s) for the complete Network Continuation Term. Within six (6) months following the end of the Network Continuation Term, Sensus will un-install and remove all RF Field Equipment at its cost; or

b. permit Customer to purchase the existing installed RF Field Equipment at a price equal to the then-current replacement value (including labor costs) of that RF Field

Equipment. If Sensus permits Customer to purchase the RF Field Equipment, Customer acknowledges that it will be responsible for all ongoing maintenance and operation of the purchased RF Field Equipment and all associated expenses.

c. If Customer purchases the RF Field Equipment as outlined directly above, Sensus will work with Customer to seamlessly transfer WAN Backhaul usage agreements to Customer to avoid interruption of service.

iii. Customer acknowledges that, if Sensus does not permit Customer to purchase the existing installed RF Field Equipment pursuant to Section 4(C)(ii)(b), Customer's Equipment will no longer have network connectivity and will not be able to remotely transmit Customer Data to SaaS. Customer will be responsible for all costs associated with conducting a new Certified Propagation Study and purchasing and installing new RF Field Equipment to maintain FlexNet System functionality and network connectivity with SaaS.

D. Insurance. Sensus will maintain insurance coverage in the amounts and in the manner set forth in the attached Exhibit D during the Term of the Agreement.

5. Equipment.

A. Purchase of Equipment. Customer shall purchase all Field Devices, and other goods (collectively, "Equipment") from C&M pursuant to the terms and conditions (including any warranties on such Equipment) agreed by Customer and C&M. This Agreement shall not affect any terms and conditions, including any warranty terms, agreed by Customer and C&M. If Customer elects to purchase any equipment or services directly from Sensus, or if Customer pays any fees or other costs to Sensus, then Sensus' Terms of Sale shall apply.

B. EXCEPT FOR THE SERVICES WARRANTY OUTLINED IN SECTION 6 BELOW, THERE ARE NO OTHER WARRANTIES IN THIS AGREEMENT, EXPRESS OR IMPLIED. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS, WARRANTIES AND/OR CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS AGREEMENT, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE. WITHOUT LIMITING THE FOREGOING, SENSUS MAKES NO WARRANTIES OR PROMISE (I) THAT ITS SOFTWARE AS A SERVICE, SOFTWARE OR OTHER SERVICES WILL OPERATE IN CONJUNCTION WITH ANY SOFTWARE, SERVICES OR PRODUCTS PROVIDED BY THIRD PARTIES, (II) THAT THE OPERATION OF THE SOFTWARE AS A SERVICE OR ANY SENSUS SOFTWARE WILL BE UNINTERRUPTED OR ERROR OR VULNERABILITY FREE, OR (III) THAT ALL DEFECTS, BUGS, ERRORS OR VULNERABILITIES CAN OR WILL BE FIXED OR REMEDIATED. CUSTOMER ACKNOWLEDGES THAT SENSUS DOES NOT CONTROL THE TRANSFER OF DATA OVER THE INTERNET OR ACROSS OTHER NETWORKS, AND THE SOFTWARE AS A SERVICE MAY BE SUBJECT TO LIMITATIONS, DELAYS, AND OTHER PROBLEMS INHERENT IN THE USE OR OPERATION OF SUCH INTERNET OR NETWORKS. SENSUS IS NOT RESPONSIBLE FOR ANY DAMAGES, INCIDENTS, DELAYS,

DELIVERY PROBLEMS, OR OTHER PROBLEMS RESULTING FROM SUCH INTERNET OR NETWORK PROBLEMS. IN NO EVENT IS SENSUS RESPONSIBLE OR LIABLE FOR ANY ISSUES RELATED TO THE PERFORMANCE, OPERATION OR SECURITY OF THE SOFTWARE AS A SERVICE OR ANY SENSUS SOFTWARE THAT ARISE FROM CUSTOMER'S OR ITS THIRD PARTIES' ENVIRONMENT; FAILURE TO IMPLEMENT PATCHES, UPDATES OR UPGRADES; SYSTEMS; CONTENT; NETWORKS; OR DEVICES. EXCEPT AS OTHERWISE EXPRESSLY STATED IN THIS AGREEMENT, CUSTOMER ASSUMES ALL RESPONSIBILITY AND RISK FOR ITS USE OF THE SOFTWARE AS A SERVICE, SENSUS SOFTWARE AND OTHER SERVICES PROVIDED UNDER THIS AGREEMENT.

6. **Services.**
   - **A. Installation of Equipment.** Installation services for Field Devices, other goods, and RF Field Equipment will be as agreed between the Customer and C&M Sensus will not provide installation services pursuant to this Agreement. Sensus is not responsible for any problems that arise from the installation services (e.g., faulty configuration).
   - **B. Technical Support**. Sensus shall provide Customer the technical support set forth in Exhibit B.
   - **C. Project Management.** C&M will provide project management services to Customer.
   - **D. Training.** C&M will provide Customer with training on the use of the FlexNet System.
   - **E. IT Systems Integration Services.** Except as may otherwise be provided herein, integration of the Software into Customer's new or existing internal IT systems is not included in this Agreement. Any integration work shall be subject to a separate agreement which describes the scope and pricing for such work.
   - **F. Services Warranty**. Sensus represents and warrants that Sensus will perform all Services in a timely, professional, and workmanlike manner in compliance with this Agreement and with a level of care, skill, practice and judgment consistent with generally recognized industry standards and practices for similar Services, using personnel with the requisite skill, experience and qualifications, will devote adequate resources, and be responsible for its own means and methods to meet its obligations under this Agreement. Customer's sole and exclusive remedy shall be for Sensus to repair (or cure the defect) for any breach of the foregoing warranties.
7. **General Terms and Conditions.**
   - **A. Infringement Indemnity.** Sensus shall defend, indemnify, and hold harmless Customer from and against any action filed, judgment entered by a court of competent jurisdiction, or settlement reached by Sensus from any litigation instituted against Customer in the United States by a third party to the extent alleging that the FlexNet System as provided hereunder infringes upon the patents or copyrights of such third party, provided that Sensus shall have the right to select counsel in such proceedings and control such proceedings and any settlement. Notwithstanding the foregoing, Sensus shall have no obligation or liability under this indemnity unless Customer cooperates fully with and assists Sensus in any such

proceedings and gives Sensus written notice of any claim hereunder within fourteen (14) days of receiving it. Further, Sensus shall have no obligation or liability hereunder if such claim is related to; (i) any change, modification or alteration made to the FlexNet System by Customer or a third party, (ii) use of the FlexNet System in combination with any goods or services not provided by Sensus hereunder, (iii) Customer's failure to use the most recent version of the Software or to otherwise take any corrective action as reasonably directed by Sensus, (iv) compliance by Sensus with any designs, specifications or instructions provided by Customer or compliance by Sensus with an industry standard, or (v) any use of the FlexNet System other than for the Permitted Use or in a manner that exceeds the licenses and rights provided herein. In the event the FlexNet System is adjudicated to infringe a patent or copyright of a third party and its use is enjoined, or, if in the reasonable opinion of Sensus, the FlexNet System is likely to become the subject of an infringement claim, Sensus, at its sole discretion and expense, may at its option; (i) procure for Customer the right to continue using the FlexNet System or (ii) modify or replace the FlexNet System so that it becomes non-infringing. THIS SECTION STATES CUSTOMER'S SOLE AND EXCLUSIVE REMEDY AND SENSUS' ENTIRE LIABILITY AND OBLIGATION FOR ANY CLAIM OF INFRINGEMENT.

B. Limitation of Liability. Sensus' aggregate liability in any and all causes of action arising under, out of or in relation to this Agreement, its negotiation, performance, breach or termination (collectively "Causes of Action") shall not exceed the total amount paid by Customer directly to Sensus or C&M under this Agreement. This is so whether the Causes of Action are in tort, including, without limitation, negligence or strict liability, in contract, under statute or otherwise. As separate and independent limitations on liability, Sensus' liability shall be limited to direct damages. Sensus shall not be liable for; (i) any indirect, incidental, special or consequential damages; nor (ii) any revenue or profits lost by Customer or its Affiliates, including from any End User(s), irrespective whether such lost revenue or profits is categorized as direct damages or otherwise; nor (iii) any In/Out Costs; nor (v) damages arising from maincase or bottom plate breakage caused by freezing temperatures, water hammer conditions, or excessive water pressure. The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

C. Termination. Either party may terminate this Agreement earlier if the other party commits a material breach of this Agreement and such material breach is not cured within forty-five (45) days of written notice by the other party. Upon any expiration or termination of this Agreement, Sensus' and Customer's obligations hereunder shall cease and the software as

a service and Spectrum Lease shall immediately cease.

D. Force Majeure. If Sensus becomes unable, either wholly or in part, by an event of Force Majeure, to fulfill its obligations under this Agreement, the obligations affected by the event of Force Majeure will be suspended during the continuance of that inability. The party affected by the force majeure will take reasonable steps to mitigate the Force Majeure. Notwithstanding anything herein to the contrary, in no event will Sensus be liable for the consequences or impact of any Force Majeure event.

E. Temporary Service Suspension. Sensus may suspend the Services without liability if: (i) Customer fails to pay Sensus or C&M when payment is due; (ii) Sensus reasonably believes that the Services are being used in violation of the Agreement; (iii) Sensus is required by applicable law or by a regulatory or government body to suspend Customer's access to the Services; (iv) a Force Majeure event requires Sensus to suspend Customer's access; or (v) there is another event for which Sensus reasonably believes that the suspension of Services is necessary to protect the Services. Sensus will give Customer advance notice of a suspension where reasonably possible under the circumstances. If a suspension is based on Customer's breach of Customer's obligations under the Agreement, Sensus may continue to charge Customer the fees for the Services during suspension.

F. Intellectual Property Rights.

i. Software and Materials. No Intellectual Property is assigned to Customer hereunder. Excluding Customer Data, Sensus shall own or continue to own all right, title, and interest in and to the Intellectual Property associated with the Software and related documentation, including any derivations and/or derivative works (the "Sensus IP"). To the extent, if any, that any ownership interest in and to such Sensus IP does not automatically vest in Sensus by virtue of this Agreement or otherwise, and instead vests in Customer, Customer agrees to grant and assign and hereby does grant and assign to Sensus all right, title, and interest that Customer may have in and to such Sensus IP. Customer agrees not to reverse engineer any Sensus Products purchased or provided hereunder.

ii. Customer Data. Notwithstanding the prior paragraph, as between Customer and Sensus, Customer remains the owner of all right, title or interest in or to any Customer Data. "Customer Data" means solely usage data collected by the Field Devices. To avoid doubt, Customer Data does not include (i) non-End User usage data collected by the Field Devices, Software, or FlexNet System, such as network and equipment status information or the like, or (ii) personally identifiable information of End-Users. Customer represents to Sensus that Customer (i) has sufficient rights in all Customer Data, to hold the Customer Data and deliver it to Sensus as required for the Services to be performed as contemplated in the Agreement, and (ii) has obtained (and is responsible for maintaining) from all individuals, persons and third parties whose personal information is contained in the Customer Data all required consents and authorizations, and has provided to all individuals, persons, and third parties the notices with respect to the

collection, retention, disclosure and use of the Customer Data as contemplated for the purposes of this Agreement that are required under applicable foreign, federal and state laws and regulations, including but not limited to relevant privacy laws and regulations.

iii. Consent to Use of Customer Data. Customer hereby irrevocably grants to Sensus a world-wide royalty-free, non-exclusive, irrevocable right and license to access, store, and use such Customer Data and any other data or information provided to Sensus provided it is anonymized and aggregated to (1) provide the Service; (2) analyze and improve the Service; (3) analyze and improve any Sensus equipment, software, or service; or (4) for any other internal use. As used herein, "Service" means Sensus' obligations under this Agreement, such as the Software as a Service.

iv. Access to Customer Data. Within 45 days of Customer's written request, Sensus will provide Customer a copy of the previous 24 months of data collected by the FlexNet System in a format of Sensus' discretion and deliver the file to a drop location specified by Customer.

G. Right to use Feedback. Customer grants Sensus a royalty-free, worldwide, irrevocable, perpetual license to use, aggregate, alter or incorporate into the Services any suggestions, enhancement requests, recommendations or other feedback provided by Customer or its employees and agents.

H. Trade Secrets, Proprietary, Confidential Information, and Public Records.

i. **Trade Secrets**. Documents submitted by Sensus which it contends constitute trade secrets as defined in Sections 812.081 and 688.002, Florida Statutes, or confidential and propriety business information when held by the Customer as a utility owner, consistent with Section 119.0713(5), Florida Statutes, or information related to cybersecurity that is exempt and confidential under Section 119.0725, Florida Statutes, and which are clearly marked or stamped as confidential by Sensus at the time of submission to the Customer, will not be subject to public access. Except as may be required under applicable law, court order, or regulation, or to the extent required to perform and enforce this Agreement, both parties shall (and shall cause their employees and contractors to) keep all Confidential Information strictly confidential and shall not disclose it to any third party. The Confidential Information may be transmitted orally, in writing, electronically or otherwise observed by either party. However, should a requestor of public records challenge Sensus' claim of trade secret or confidential and proprietary business information, within five (5) calendar days of such challenge, Sensus must provide a separate written affidavit and a separate indemnification and release guarantee, as approved by the Customer's Attorney or designee, to the Customer to support its claim that the alleged trade secrets or proprietary and confidential business information actually constitutes same as defined by applicable law. Sensus must demonstrate the need for confidentiality of the documentation by showing a business advantage or opportunity to obtain an advantage would be gained if the documentation were released. Otherwise, Sensus is required to timely seek a protective order in the

Circuit Court of Hardee County to prevent the Customer's release of the requested records.

ii. **Confidential Information Defined**. "Confidential Information" means all non-public information of either party, all technical information about either party's products or services, pricing information, marketing and marketing plans, Customer's End Users' personally identifiable information, FlexNet System performance, FlexNet System architecture and design, FlexNet System software, other business and financial information of either party and all trade secrets of either party. Notwithstanding the foregoing, "Confidential Information" shall not include (i) any information that is in the public domain other than due to Recipient's breach of this Contract; (ii) any information in the possession of the Recipient without restriction prior to disclosure by the Discloser; or (iii) any information independently developed by the Recipient without reliance on the information disclosed hereunder by the Discloser. "Discloser" means either party that discloses Confidential Information, and "Recipient" means either party that receives it.

iii. **Public Records Requirements**. The parties acknowledge and agree that the Customer is a public agency subject to Chapter 119, Florida Statutes. All documents, including but not limited to, letters, memos, e-mails, computer files, photographs, drawings, tracings, plans, specifications, maps, evaluations, reports and other records and data of any type relating to the Agreement received, or prepared and developed by Sensus and provided to the Customer under this Agreement are public records subject to Florida Statutes, Chapter 119 and shall not be destroyed. Accordingly, pursuant to Section 119.0701, Florida Statutes, Sensus must comply with all public records laws in accordance with Chapter 119, Florida Statutes. In accordance with Chapter 119, Florida Statutes, Sensus agrees to: (1) Keep and maintain all records that ordinarily and necessarily would be required by the Customer to perform the services under this Agreement; (2) Upon request from the Customer, provide the Customer with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the costs provided in Chapter 119, Florida Statutes, or as otherwise provided by law; (3) Ensure that public records that are exempt, or confidential and exempt, from public records disclosures are not disclosed except as authorized by law during the Term of the Agreement and following termination or expiration of the Agreement, if Sensus does not transfer the records to the Customer; (4) Upon completion of the services under this Agreement, at no cost to the Customer, either transfer to the Customer all public records in Sensus's possession that were not previously provided or keep and maintain public records required by the Customer to perform the services. If Sensus transfers all public records to the Customer upon completion of the services, Sensus must destroy any duplicate public records that are exempt, or confidential and exempt, from public records disclosure requirements. If Sensus keeps and maintains public records upon completion of the services under this Agreement, its obligations shall survive the termination or expiration of the Agreement, and Sensus must meet all applicable requirements for retaining public records, including abiding by all State of Florida records retention schedules. All records stored

electronically must be provided to the Customer, upon request from the Customer, in a format that is compatible with the information technology systems of the Customer;(5)IF SENSUS HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CITY'S CUSTODIAN OF PUBLIC RECORDS AT: Stephanie Camacho, City Clerk, email: scamacho@Cityofwauchula.com; fax (863) 773-0773.

iv. If Sensus does not comply with the provisions of this section, the Customer will enforce the Agreement provisions in accordance herewith and may unilaterally cancel this Agreement in accordance with Florida law.

I. Compliance with Laws. Customer shall comply with all applicable federal, state, and local laws and regulations, as set forth at the time of acceptance and as may be amended, changed, or supplemented. Customer shall not take any action or permit the taking of any action by a third party, which may render Sensus liable for a violation of applicable laws.

i. **Export Control Laws**. Customer shall; (i) comply with all applicable U.S. and local laws and regulations governing the use, export, import, re-export, and transfer of products, technology, and services; and (ii) obtain all required authorizations, permits, and licenses. Customer shall immediately notify Sensus and immediately cease all activities with regards to the applicable transaction, if the Customer knows or has a reasonable suspicion that the equipment, software, or services provided hereunder may be directed to countries in violation of any export control laws. By ordering equipment, software or services, Customer certifies that it is not on any U.S. government export exclusion list.

ii. **Anti-Corruption Laws**. Customer shall comply with the United States Foreign Corrupt Practices Act (FCPA), 15 U.S.C. §§ 78dd-1, et seq.; laws and regulations implementing the OECD's Convention on Combating Bribery of Foreign Public Officials in International Business Transactions; the U.N. Convention Against Corruption; the Inter-American Convention Against Corruption; and any other applicable laws and regulations relating to anti-corruption in the Customer's county or any country where performance of this Agreement, or delivery or use of equipment, software or services will occur.

iii. **E-Verify Requirements**. Effective January 1, 2021, public and private employers, contractors, and subcontractors must require registration with, and use of the E-Verify system in order to verify the work authorization status of all newly hired employees. Sensus acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of: (1) All persons employed by Sensus to perform employment duties within the State of Florida during the term of the Agreement; and (2) All persons (including subcontractors/subvendors/subconsultants) assigned by Sensus to perform work pursuant to this Agreement with the Customer. Sensus acknowledges and agrees that the use of the U.S. Department of Homeland Security's E-Verify System during the term of this Agreement is a condition of the Agreement with the Customer. By entering this Agreement with the Customer, Sensus

becomes obligated to comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility." This includes, but is not limited to, use of the E-Verify System to verify the work authorization status of all newly hired employees and requiring all subcontractors to provide an affidavit to Sensus attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Sensus agrees to maintain a copy of such affidavit for the duration of this Agreement. Failure to comply with this section will result in the termination of this Agreement as provided in Section 448.095, Florida Statutes, and Sensus may not be awarded a public contract for at least one (1) year after the date on which the Agreement was terminated. Sensus will also be liable for any additional costs to the Customer incurred as a result of the termination of this Agreement in accordance with this section.

J. Non-Waiver of Rights. A waiver by either party of any breach of this Agreement or the failure or delay of either party to enforce any of the articles or other provisions of this Agreement will not in any way affect, limit or waive that party's right to enforce and compel strict compliance with the same or other articles or provisions.

K. Assignment and Sub-contracting. Either party may assign, transfer or delegate this Agreement without requiring the other party's consent; (i) to an Affiliate; (ii) as part of a merger; or (iii) to a purchaser of all or substantially all of its assets. Apart from the foregoing, neither party may assign, transfer or delegate this Agreement without the prior written consent of the other, which consent shall not be unreasonably withheld. Furthermore, Customer acknowledges Sensus may use subcontractors to perform RF Field Equipment installation, the systems integration work (if applicable), or project management (if applicable), without requiring Customer's consent.

L. Amendments. No alteration, amendment, or other modification shall be binding unless in writing and signed by both Customer and by a vice president (or higher) of Sensus.

M. Governing Law and Dispute Resolution. This Agreement shall be governed by, construed and enforced in accordance with the laws of the State of Florida. Any and all disputes arising under, out of, or in relation to this Agreement, its negotiation, performance or termination ("Disputes") shall first be resolved by mediation between the parties. If the parties are unable to resolve their disputes through mediation, the parties agree to submit to the jurisdiction of the courts of Hardee County, Florida, and further agree that the venue for any legal action brought by or filed against Customer for any matter arising out of or related to this Agreement, shall be exclusively in the state or federal court for Hardee County, Florida, that has jurisdiction over such legal actions. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE PARTIES AGREE TO A BENCH TRIAL AND THAT THERE SHALL BE NO JURY IN ANY DISPUTES.

N. Survival. The provisions of this Agreement that are applicable to circumstances arising after its termination or expiration shall survive such termination or expiration.

O. Severability. In the event any provision of this Agreement is held to be void, unlawful or otherwise unenforceable, that provision will be severed from the remainder of the Agreement and replaced automatically by a provision containing terms as nearly like the void, unlawful,

or unenforceable provision as possible; and the Agreement, as so modified, will continue to be in full force and effect.

P. Four Corners. This written Agreement, including all of its exhibits, represents the entire understanding between and obligations of the Customer and Sensus and supersedes all other prior understandings, agreements, negotiations, and proposals, whether written or oral, formal or informal between the Customer and Sensus. Any additional writings shall not modify any limitations or remedies provided in the Agreement. There are no other terms or conditions, oral, written, electronic or otherwise between the Customer and Sensus. There are no implied obligations between the Customer and Sensus. All obligations between the Customer and Sensus are specifically set forth in this Agreement. Further, there are no representations between the Customer and Sensus that are not included in this Agreement. The ONLY operative provisions are set forth in writing in this Agreement. Without limiting the generality of the foregoing, no purchase order placed by or on behalf of Customer to Sensus shall alter any of the terms of this Agreement. The parties agree that such documents are for administrative purposes only, even if they have terms and conditions printed on them and even if and when they are accepted and/or processed by Sensus. Any goods, software or services delivered or provided directly by Sensus to the Customer in anticipation of this Agreement under purchase orders placed prior to the execution of this Agreement are governed by this Agreement upon its execution and it replaces and supersedes any such purchase orders. This Agreement shall not affect any terms and conditions, including any warranty terms, agreed to by Customer and C&M.

Q. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Additionally, this Agreement may be executed by facsimile or electronic copies, all of which shall be considered an original for all purposes.

8. Definitions. As used in this Agreement, the following terms shall have the following meanings:

A. "*Affiliate*" of a party means any other entity controlling, controlled by, or under common control with such party, where "control" of an entity means the ownership, directly or indirectly, of 50% or more of either; (i) the shares or other equity in such entity; or (ii) the voting rights in such entity.

B. *"Distribution Automation Devices"* identifies RTMs and RTUs.

C. *"Distribution Automation Devices Software"* identifies the Sensus proprietary software used with Distribution Automation Devices and any Patches, Updates, Upgrades that are provided to Customer pursuant to the terms of this Agreement, all only to the extent Customer; (i) has been provided pricing for that specific item of Distribution Automation Devices Software; and (ii) is current in its payments for that specific item of Distribution Automation Devices Software.

D. "*End User*" means any end user of electricity and/or water, who consumes electricity and/or water, provided by Customer as applicable.

E. *"Engineering Support"* means providing Patches and Updates to Software.

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F. "***Field Devices***" means the SmartPoint Modules, and Distribution Automation Devices.

G. "***FlexNet Base Station***" identifies the Sensus manufactured device consisting of one transceiver, to be located on a tower that receives readings from the SmartPoint Modules (either directly or via an R100 unit) by radio frequency and passes those readings to the RNI by TCP/IP backhaul communication. For clarity, FlexNet Base Stations include Metro Base Stations.

H. "*FlexNet System*" is comprised of the SmartPoint Modules, RF Field Equipment, Server Hardware, software licenses, Spectrum Lease, and other equipment provided to Customer hereunder. The FlexNet System only includes the foregoing, as provided by Sensus. The FlexNet System does not include goods, equipment, software, licenses or rights provided by a third party or parties to this Agreement.

I. "***Force Majeure***" means an event beyond a party's reasonable control, including, without limitation, acts of God, hurricane, flood, volcano, tsunami, tornado, storm, tempest, mudslide, vandalism, pandemic, illegal misconduct, sabotage, interruptions in power, communications or Internet service, acts of governments or government-backed actors, illegal or unauthorized radio frequency interference, strikes, lockouts, or other industrial disturbances, unavailability of component parts of any goods provided hereunder, acts of public enemies, wars, blockades, embargoes, insurrections, riots, epidemics, earthquakes, fires, restraints or prohibitions by any court, board, department, commission or agency of the United States or any States, any arrests and restraints, civil disturbances and explosion.

J. ***"Hosted Software"*** means those items listed as an Application in Exhibit A.

K. "***In/Out Costs***" means any costs and expenses incurred by Customer in transporting goods between its warehouse and its End User's premises and any costs and expenses incurred by Customer in installing, uninstalling and removing goods

L. "***Intellectual Property***" means patents and patent applications, inventions (whether patentable or not), trademarks, service marks, trade dress, copyrights, trade secrets, know-how, data rights, specifications, drawings, designs, maskwork rights, moral rights, author's rights, and other intellectual property rights, including any derivations and/or derivative works, as may exist now or hereafter come into existence, and all renewals and extensions thereof, regardless of whether any of such rights arise under the laws of the United States or of any other state, country or jurisdiction, any registrations or applications thereof, and all goodwill pertinent thereto.

M. "***LCM***" identifies the load control modules.

N. ***"Licensed Software"*** means the Software licensed hereunder pursuant to the terms of the Agreement.

O. "*Ongoing Fee*" means the annual or monthly fees, as applicable, to be paid by Customer to C&M during the Term of this Agreement.

P. "***Patches***" means patches or other maintenance releases of the Software that correct processing errors and other faults, vulnerabilities and defects found in the Software. For

clarity, Patches are not Updates or Upgrades.

Q. "***Permitted Use"*** means only for reading and analyzing data from Customer's Field Devices in the Service Territory. The Permitted Use does not include reading third devices not provided by Sensus or reading Field Devices outside the Service Territory.

R. ***"R100 Unit"*** identifies the Sensus standalone, mounted transceiver that takes the radio frequency readings from the SmartPoint Modules and relays them by radio frequency to the relevant FlexNet Base Station or directly to the RNI by TCP/IP backhaul communication, as the case may be.

S. **"*Release*"** means both Updates and Upgrades.

T. **"*Remote Transceiver*"** identifies the Sensus standalone, mounted relay device that takes the radio frequency readings from the SmartPoint Modules and relays them directly to the RNI by TCP/IP backhaul communication.

U. **"RF"** means Radio Frequency.

V. **"*RF Field Equipment*"** means, collectively, FlexNet Base Stations, R100 units (if any) and Remote Transceivers (if any).

W. **"*RNI*"** identifies the regional network interfaces consisting of hardware and software used to gather, store, and report data collected by the FlexNet Base Stations from the SmartPoint Modules. The RNI hardware specifications will be provided by Sensus upon written request from Customer.

X. **"*RNI Software*"** identifies the Sensus proprietary software used in the RNI and any Patches, Updates, and Upgrades that are provided to Customer pursuant to the terms of this Agreement.

Y. **"*Security Breach"*** means a cybersecurity incident whereby an unauthorized third party intentionally compromises the security of Customer's tenant environment in Sensus' Software as a Service solution and gains access to Customer's tenant environment and data.

Z. **"RTMs"** identifies the remote telemetry modules.

AA. **"RTUs"** identifies remote telemetry unit.

BB. ***"Service Territory"*** identifies the geographic area where Customer utilizes Sensus equipment to provide services to End Users as of the Effective Date. This area will be described on the propagation study in the parties' Spectrum Lease filing with the FCC.

CC. **"*Server Hardware*"** means the RNI hardware.

DD. ***"SmartPoint™ Modules"*** identifies the Sensus transmission devices installed on devices such as meters, distribution automation equipment and demand/response devices located at Customer's End Users' premises that communicate with the relevant devices and transmit those communications by radio frequency to the relevant piece of RF Field Equipment.

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EE. **"*Software*"** means all the Sensus proprietary software provided as a service pursuant to this Agreement, and any Patches, Updates, and Upgrades that are provided to Customer pursuant to the terms of this Agreement. The Software does not include any third party software.

FF. ***"Technical Support"*** means the services set forth on Exhibit B.

GG. **"*Updates*"** means releases of the Software that constitute a minor improvement in functionality.

HH. **"*Upgrades*"** means releases of the Software which constitute a significant improvement in functionality or architecture of the Software.

II. **"*WAN Backhaul*"** means the communication link between FlexNet Base Stations and Remote Transceivers and RNI.

Exhibit A

Software

Software as a Service

1. **Description of Services.**

This exhibit contains the details of the SaaS that Sensus shall provide to Customer if both; (i) pricing for the application of Software as a Service has been provided to the Customer; and (ii) the Customer is current in its payments to C&M for such application of Software as a Service.

A. Software as a Service Generally.

SaaS is a managed service in which Sensus will be responsible for the day-to-day monitoring, maintenance, management, and supporting of Customer's Software tenant in Sensus' (or its subcontractor's) data centers. In a Software as a Service solution, Sensus owns (or has third parties operate or provide on its behalf) all components of the solution (server hardware, storage, data center, network equipment, Sensus software, and all third-party software) required to run and operate the Applications listed below. These software applications consist of the following (each an "Application"):

- Regional Network Interface (RNI) Software
- Sensus Analytics Software
  - Xylem Data Lake
  - Alerts and Message Manager
  - Service Management Application

The managed application systems consist of the hardware, Sensus Software, and other third-party software that is required to operate the Applications. Each Application will have a production and disaster recovery (as described below) environment Test environments are not provided unless otherwise specifically agreed by Sensus in writing. Sensus will manage the Applications by providing 24 x 7 x 365 monitoring of the availability and performance of the Applications.

B. Use of Software as a Service. Subject to the terms of this Agreement, Sensus shall make Software as a Service available to Customer to access and use solely for the Permitted Use and solely for so long as Customer is current in its payments to Sensus or C&M for Software as a Service. The Software as a Service term commences on the date that Sensus first makes Software as a Service available to Customer for use and ends upon the earlier of: (i) the expiration or termination of the Agreement; (ii) breach by Customer of this exhibit or the Agreement; or (iii) Customer's termination of Software as a Service as set forth in paragraph (C) below.

C. Termination of an Application. Customer shall have the option at any time before the end of the Term to terminate any Application by giving Sensus one hundred twenty (120) days

prior written notice. Such notice, once delivered to Sensus, is irrevocable. Should Customer elect to terminate any Application, Customer acknowledges that; (a) Customer shall pay all applicable fees, including any unpaid Software as a Service fees due in the current calendar year plus a ten percent (10%) early termination fee, where such fee is calculated based on the annual Software as a Service fee due in the current calendar year; and (b) Software as a Service for such Application shall immediately cease. If Customer elects to terminate the RNI Application in the Software as a Service environment but the Agreement has not expired or terminated, then upon delivery of the notice to Sensus, Customer shall purchase the necessary (a) RNI hardware from a third party and (b) RNI software license at Sensus' then-current pricing. No portion of the Software as a Service fees shall be applied to the purchase of the RNI hardware or software license.

D. <u>Software as a Service</u> means <u>only</u> the following services:

i. Sensus will provide the use of required hardware and or virtual environments, located at Sensus' or a third-party's data center facility (as determined by Sensus), that is necessary to operate the Application.
ii. Sensus will provide production and disaster recovery environments for Applications.
iii. Sensus will provide Patches, Updates, and Upgrades to latest Sensus Hosted Software release.
iv. Sensus will configure and manage the equipment (server hardware, routers, switches, firewalls, etc.) in the data centers:
    a. Network addresses and virtual private networks (VPN)
    b. Standard time source (NTP or GPS)
    c. Security access points
    d. Respond to relevant alarms and notifications.
v. Capacity and performance management. Sensus will:
    a. Monitor capacity and performance of the Application server and software applications 24x7x365 using KPI metrics, thresholds, and alerts to proactively identify any potential issues related to system capacity and/or performance (i.e., database, backspool, logs, message broker storage, etc.)
    b. If an issue is identified to have a potential impact to the system, Sensus will open an incident ticket and manage the ticket through resolution per Exhibit B, Technical Support.
    c. Manage and maintain the performance of the server and perform any change or configuration to the server, in accordance to standard configuration and change management policies and procedures.
    d. Manage and maintain the server storage capacity and performance of the Storage Area Network ("SAN"), in accordance to standard configuration and change management policies and procedures.
    e. Exceptions may occur to the system that require Sensus to take immediate action to maintain the system capacity and performance levels, and Sensus has authority to make changes without Customer approval as needed, in accordance to standard

configuration and change management policies and procedures.

vi. Database management. Sensus will:
   a. Implement the data retention plan and policy and will provide the policy upon request.
   b. Monitor space and capacity requirements.
   c. Respond to database alarms and notifications.
   d. Install database software Upgrades and Patches.
   e. Perform routine database maintenance and cleanup of database to improve capacity and performance, such as rebuilding indexes, updating indexes, consistency checks, run SQL query/agent jobs, etc.

vii. Incident and Problem Management. Sensus will:
   a. Proactively monitor managed systems (24x7x365) for key events and thresholds to detect and identify incidents.
   b. Respond to incidents and problems that may occur to the Application(s).
   c. Maintain policies and procedures for responding to incidents and performing root cause analysis for ongoing problems.
   d. Correlate incidents and problems where applicable.
   e. Sensus personnel will use the self-service portal to document and track incidents.
   f. In the event that Sensus personnel is unable to resolve an issue, the issue will be escalated to the appropriate Subject Matter Expert (SME).
   g. Maintain responsibility for managing incident and problems through resolution (which may include workarounds) and will coordinate with Customer's personnel and/or any required third-party vendor to resolve the issue.
   h. Provide telephone support consistent with Exhibit B, Technical Support in the case of undetected events.

viii. Security Management. Sensus will:
   a. Monitor the physical and cyber security of the server and Application(s) 24x7x365 to ensure system is secure, consistent with NIST security standards.
   b. Perform intrusion prevention and detection of the data center network and firewalls and monitor logs and alerts.
   c. Conduct periodic penetration testing of the network and data center facilities.
   d. Conduct monthly vulnerability scanning by both internal staff and external vendors.
   e. Perform anti-virus and Malware patch management on systems.
   f. Install updates to virus protection software and related files (including virus signature files and similar files) on all servers from the update being generally available from the anti-virus software provider.
   g. Respond to threats found on the system and work to eliminate any virus or malware found and provide notice to Customer within forty-eight (48) hours after a threat is confirmed.
   h. Adhere to and submit certification to NERC/CIP Cyber Security standards.
   i. Monitors industry regulations/standards regarding security – NERC, FERC, NIST,

OpenSG, etc. through the Sensus security team.

j. Provide secure web portal access (SSL) to the Application(s).

ix. Backup and Disaster Recovery Management. Sensus will:

a. Perform daily backups of data providing one (1) year of history for auditing and restoration purposes.

b. Back-up and store data (on tapes or other storage media as appropriate) off-site to provide protection against disasters and to meet file recovery needs.

c. Conduct incremental and full back-ups to capture data, and changes to data, on the Application(s).

d. Replicate the Application(s) environments to a geographically separated data center location to provide a full disaster recovery environment for the Application production system.

e. Generate a report following each and any disaster measuring performance against the disaster recovery plan and identification of problem areas and plans for resolution.

f. Maintain a disaster recovery plan. In the event of a disaster, Sensus shall provide the services in accordance with the disaster recovery plan.

g. In the case of a disaster and loss of access to or use of the Application, Sensus would use commercially reasonable efforts per the Recovery Time Objectives ("RTO") and Recovery Point Objectives ("RPO") specified herein to restore operations at the same location or at a backup location within forty-eight (48) hours.

h. The Application shall have a "RTO" of forty-eight (48) hours.

i. The RPO shall be a full recovery of the Application(s), with an RPO of one (1) hour, using no more than a twenty-four (24) hour old backup. All meter-related data shall be pushed from each Base Station/TGB restoring the database to real-time minus external interfaced systems from the day prior.

j. Data from external interfaced systems shall be recreated within a forty-eight (48) hour period with the assistance of Customer personnel and staff, as needed.

E. Customer Responsibilities:

i. Coordinate and schedule any changes submitted by Sensus to the system in accordance with standard configuration and change management procedures.

ii. Participate in all required configuration and change management procedures.

iii. Customer will log incidents related to the managed Application with Sensus personnel via email, web portal ticket entry, or phone call.

iv. Responsible for periodic processing of accounts or readings (i.e., billing files) for Customer's billing system for billing or other analysis purposes.

v. Responsible for any field labor to troubleshoot any SmartPoint modules or smart meters in the field in populations that have been previously deployed and accepted.

vi. If NaaS services are terminated, first response labor to troubleshoot FlexNet Base Station, R100s, Remote Transceivers or other field network equipment.

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vii. Responsible for local area network security, configuration, management, and support.
viii. If NaaS services are terminated identify and research problems with meter reads and meter read performance.
ix. Create and manage user accounts and periodically change and update account credentials with strong passwords in accordance with security best practices.
x. Customize application configurations.
xi. Support application users.
xii. Investigate application operational issues (e.g., meter reads, reports, alarms, etc.).
xiii. Respond to alarms and notifications.
xiv. If NaaS services are terminated, perform requested firmware upgrades over-the-air, or delegate and monitor field personnel for on-site upgrades.
xv. Maintain industry standard cybersecurity controls, standards, and best practices.
xvi. If NaaS services are terminated, monitor for and promptly implement Patches, Updates, and Upgrades, both as provided by Sensus and other third-party software and hardware providers.

F. Software as a Service does not include any of the following services:

i. Parts or labor required to repair damage to any field network equipment that is the result of a Force Majeure event.
ii. Any integration between applications, such as Harris MeterSense, would require a Professional Services contract agreement to be scoped, submitted, and agreed in a signed writing between Sensus and all the applicable parties.

If an item is not listed in subparagraphs in item (D) above, such item is excluded from the Software as a Service and is subject to additional pricing.

2. Further Agreements

A. System Uptime Rate.

i. Sensus (or its contractor) shall manage and maintain the Application(s) on computers owned or controlled by Sensus (or its contractors) and shall provide Customer access to the managed Application(s) via internet or point to point connection (i.e., Managed-Access use), according to the terms below. Sensus endeavors to maintain an average System Uptime Rate equal to ninety-nine (99.0) per Month (as defined below). The System Uptime Rate, cumulative across all Applications, shall be calculated as follows:

$$\text{System Uptime Rate} = 100 \times \frac{(\text{TMO} - \text{Total Non-Scheduled Downtime minutes in the Month})}{\text{TMO}}$$

ii. **Calculations**

a. ***Targeted Minutes of Operation*** or ***TMO*** means total minutes cumulative across all Applications in the applicable month minus the Scheduled Downtime in the Month.
b. ***Scheduled Downtime*** means the number of minutes during the Month, as measured by Sensus, in which access to any Application is scheduled to be unavailable for use by Customer due to planned system maintenance. Sensus shall provide Customer notice (via email or otherwise) at least seven (7) days in advance of commencement

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of the Scheduled Downtime.

c. ***Non-Scheduled Downtime*** means the number of minutes during the Month, as measured by Sensus, in which access to any Application is unavailable for use by Customer due to reasons other than Scheduled Downtime or the Exceptions, as defined below (e.g., due to a need for unplanned maintenance or repair).

iii. **Exceptions**. Exceptions mean the following events:

- Force Majeure;
- Emergency Work, as defined below; and
- Lack of Internet Availability, as described below.

a. **Emergency Work**. In the event that Force Majeure, emergencies, security incidents, dangerous conditions or other exceptional circumstances arise or continue during TMO, Sensus shall be entitled to take any actions that Sensus, in good faith, determines is necessary or advisable to prevent, remedy, mitigate, or otherwise address actual or potential harm, interruption, loss, threat, security or like concern to any of the Application(s) ("Emergency Work"). Such Emergency Work may include, but is not limited to: analysis, testing, repair, maintenance, re-setting and other servicing of the hardware, cabling, networks, software and other devices, materials and systems through which access to and/or use of the Application(s) by the Customer is made available (the "Managed Systems"). Sensus shall endeavor to provide advance notice of such Emergency Work to Customer when practicable and possible.

b. **Lack of Internet Availability.** Sensus shall not be responsible for any deterioration of performance attributable to latencies in the public internet or point-to-point network connection operated by a third party. Customer expressly acknowledges and agrees that Sensus does not and cannot control the flow of data to or from Sensus' networks and other portions of the Internet, and that such flow depends in part on the performance of Internet services provided or controlled by third parties, and that at times, actions or inactions of such third parties can impair or disrupt data transmitted through, and/or Customer's connections to, the Internet or point-to-point data connection (or portions thereof). Although Sensus will use commercially reasonable efforts to take actions Sensus may deem appropriate to mitigate the effects of any such events, Sensus cannot guarantee that such events will not occur. Accordingly, Sensus disclaims any and all liability resulting from or relating to such events.

iv. **System Availability.** For each month that the System Uptime Rates for the production RNI falls below 99.0%, Sensus will issue Customer the following Service Level Credits:

System Uptime Rate per calendar month	Service Level Credit
Less than 99.0% but at least 97.5%	5% of the monthly RNI SaaS Fees in which the service level default

System Uptime Rate per calendar month	Service Level Credit
	occurred (Note: SaaS fees are pre-paid annually and for purposes of Service Level Credits are computed on a monthly basis.)
Less than 97.5% but at least 95.0%	10% of the monthly RNI SaaS Fees in which the service level default occurred
Less than 95.0%	20% of the monthly RNI SaaS Fees in which the service level default occurred

Service Level Credits for any single month shall not exceed 20% of the RNI SaaS Fee associated with the month in which the service level default occurred. Sensus records and data will be the sole basis for all Service Level Credit calculations and determinations, provided that such records and data must be made available to Customer for review and agreement by Customer. To receive a Service Level Credit, Customer must issue a written request no later than ten (10) days after the Service Level Credit accrues. Sensus will apply each valid Service Level Credit to the Customer's C&M account as a refund after Sensus' receipt of Customer's request and confirmation of the failure to meet the applicable Service Level Credit. Service Level Credits will not be payable for failures to meet the System Uptime Rate caused by any Exceptions. No Service Level Credit will apply if Customer is not current in its undisputed payment obligations under the Agreement. Service Level Credits are exclusive of any applicable taxes charged to Customer or collected by Sensus. Sensus shall not refund an unused Service Level Credits or pay cash to Customer for any unused Service Level Credits. Any unused Service Level Credits at the time the Agreement terminates will be forever forfeited. THE SERVICE LEVEL CREDITS DESCRIBED IN THIS SECTION ARE THE SOLE AND EXCLUSIVE REMEDY FOR SENSUS' FAILURE TO MEET THE SYSTEM UPTIME REQUIREMENT OR ANY DEFECTIVE SAAS PERFORMANCE. IN NO EVENT SHALL THE AGGREGATE AMOUNT OF SERVICE LEVEL CREDITS IN ANY ANNUAL PERIOD EXCEED 20% OF THE ANNUAL RNI SAAS FEE.

B. Data Center Site-Security. Although Sensus may modify such security arrangements without consent or notice to Customer, Customer acknowledges the following are the current arrangements regarding physical access to and support of the primary hardware components of the Managed Systems:

i. The computer room(s) in which the hardware is installed is accessible only to authorized individuals.

ii. Power infrastructure includes one or more uninterruptible power supply (UPS) devices

and diesel generators or other alternative power for back-up electrical power.

iii. Air-conditioning facilities (for humidity and temperature controls) are provided in or for such computer room(s) and can be monitored and adjusted for humidity and temperature settings and control. Such air systems are supported by redundant, back-up and/or switch-over environmental units.

iv. Such electrical and A/C systems are monitored on an ongoing basis and personnel are available to respond to system emergencies (if any) in real time.

v. Dry pipe pre-action fire detection and suppression systems are provided.

vi. Data circuits are available via multiple providers and diverse paths, giving access redundancy.

C. Responsibilities of Customer.

i. Customer shall promptly pay all Software as a Service fees.

ii. Customer may not (i) carelessly, knowingly, intentionally or maliciously threaten, disrupt, harm, abuse or interfere with the Application(s), Managed Systems or any of their functionality, performance, security or integrity, nor attempt to do so; (ii) impersonate any person or entity, including, but not limited to, Sensus, a Sensus employee or another user; or (iii) forge, falsify, disguise or otherwise manipulate any identification information associated with Customer's access to or use of the Application(s).

iii. The provisioning, compatibility, operation, security, support, and maintenance of Customer's hardware and software ("Customer's Systems") is exclusively the responsibility of Customer. Customer is also responsible, in particular, for correctly configuring and maintaining (i) the desktop environment used by Customer to access the Application(s) managed by Sensus; and (ii) Customer's network router and firewall, if applicable, to allow data to flow between the Customer's Systems and Sensus' Managed Systems in a secure manner via the public Internet.

iv. Upon receiving the system administrator account from Sensus, Customer shall create strong username and passwords for each of Customer's authorized users and complete the applicable Sensus registration process (Authorized Users). Such usernames, and passwords will allow Authorized Users to access the Application(s). Customer shall be solely responsible for maintaining the security and confidentiality of each user ID and password pair associated with Customer's account, and Sensus will not be liable for any loss, damage or liability arising from Customer's account or any user ID and password pairs associated with Customer. Customer is fully responsible for all acts and omissions that occur through the use of Customer's account and any user ID and password pairs. Customer agrees (i) not to allow anyone other than the Authorized Users to have any access to, or use of Customer's account or any user ID and password pairs at any time; (ii) to notify Sensus immediately of any actual or suspected unauthorized use of Customer's account or any of such user ID and password pairs, or any other breach or suspected breach of security, restricted use or confidentiality; and (iii) to take the Sensus-recommended steps to log out from and otherwise exit the Application(s) and Managed Systems at the end of each session. Customer agrees that Sensus shall be entitled to

rely, without inquiry, on the validity of the user accessing the Application(s) application through Customer's account, account ID, usernames, or passwords. Customer will ensure that its user ID and passwords are regularly (at least monthly) changed, and that only strong user ID and password pairs are used.

v. Customer shall be responsible for the day-to-day operations of the Application(s) and FlexNet System. This includes, without limitation, (i) researching problems with meter reads, (ii) creating and managing user accounts, (iii) customizing application configurations, (iv) supporting application users, (v) investigating application operational issues, (vi) responding to alarms and notifications, and (vii) approving necessary over-the-air commands (such as firmware updates or configuration changes).

D. Software Solution Components.

i. **Description of Software Solutions**. Sensus software consists of a core communication module and a set of applications. Some applications are required to perform basic solution capabilities, other applications are optional and add additional capabilities and function to the overall solution. As Customer's business process expands and/or new Sensus offerings are made available, additional applications and functionality can dynamically be added to the solution, provided Customer purchases such additional applications.

ii. **Regional Network Interface.** The Regional Network Interface (RNI) or Sensus head-end is the centralized intelligence of the FlexNet network; the RNI's primary objective is to transfer endpoint (such as meters) data to the Customer and the advanced feature applications. The RNI is adaptable to Customer configurations by simultaneously supporting a wide range of FlexNet enabled endpoints; including but not limited to meters (electric, water, gas) and other sensing devices.

iii. **Xylem Data Lake**. Subject to the terms of this Agreement, Sensus will make the Xylem Data Lake ("XDL") available to Customer to access and use solely for the Permitted Use and solely for so long as Customer is current in its payments to Sensus or C&M for Software as a Service. Sensus shall provide up to three (3) years of FlexNet System data and scan up to five hundred (500) GB per month of FlexNet System data. If Customer exceeds the allotment of five hundred (500) GB per month of scanned data (regardless of the access method) an overage charge will be assessed to Customer and be payable according to the terms outlined by C&M. Sensus will also provide Customer XDL training, which includes up to eight (8) hours of professional services consulting time.

3. Sensus Analytics

Sensus Analytics is a cloud-based solution and data platform that allows storage and retrieval of raw reads and data from other sources for analysis, exportation, and inquiry or reporting. The platform provides applications and reporting capabilities.

i. **Data Import.** The Sensus Analytics Application contains adapters for the import of data from; (a) Customer's FlexNet System; and/or (b) AutoRead application for handheld and drive by systems, as applicable.

ii. **Customer Acknowledgements.**

a. Customer acknowledges that the Sensus Analytics Application provides up to fifty (50) user logins for Customer's use.

b. Customer acknowledges and agrees the Sensus Analytics Application is based upon the actual number of End Users within Customer's Service Territory. Pricing may increase if Customer's Service Territory or actual number of End Users expands.

c. Customer acknowledges that all data related to the Sensus Analytics Applications is geographically hosted within the United States of America. Customer accepts the geographic location of such hosting and indemnifies Sensus for any claims resulting therefrom.

d. Customer acknowledges and agrees that the Intellectual Property provisions of this Agreement apply in all respects to Customer's access to and use of the Sensus Analytics Applications.

e. Customer is responsible for validating the data analyzed by the Sensus Analytics Applications. Sensus makes no promises of improving Customer's operations or saving Customer money, nor is Sensus liable for any damages resulting from decisions made by Customer related to Customer's use of Sensus Analytics.

f. Customer acknowledges that data will be stored for five (5) years from upload and Sensus may delete the data after this time or upon termination of the Agreement.

4. Third-Party Software.

A. Sensus incorporates various third-party software in its Software, and such third-party software may change from time to time. Sensus takes reasonable efforts to implement patches or other fixes as they become available in accordance with a particular version's Engineering Support policy. Upon written request by Customer. Sensus shall provide a software bill of materials ("SBOM") in a file format of Sensus' discretion which lists the third-party software applications and versions incorporated in the Sensus Software. To the extent required by a third-party software provider. Customer hereby agrees to abide by a third-party's end-user license agreement ("EULA").

Exhibit B
Technical Support

1. Introduction

Sensus Technical Services provides utility customers with a single point of contact for Tier 1 support of technical issues as well as any coordination of additional resources required to resolve the issue. Requests that require specialized skills are to be forwarded to a senior support engineer or Technical Advisor within the team for further analysis. If Technical Services has exhausted all troubleshooting efforts for the product type, the issue will escalate to the Engineering Support Team. Occasionally, on-site troubleshooting/analysis may be required. The preferred order of on-site support is:

a. The Customer (for assistance with the easiest and lowest time-consuming activities such as power on/power off).
b. The local distributor.
c. Sensus employees or contracted personnel, if required to fulfill a contract commitment.

2. Support Categories

2.1. General questions regarding functionality, use of product, how-to, and requests for assistance on any purchased product including but not limited to Sensus AMR, AMI, RF Network Equipment, Metering Products, Sensus Lighting Control, and Demand Response Management System (FlexNet Home).

2.2. Proactive reporting and resolution of problems.

2.3. Reactive reporting to isolate, document, and solve reported hardware/software defects.

2.4. Responding to service requests and product changes.

2.5. Addressing customer inquiries with printed or electronic documentation, examples, or additional explanation/clarification.

3. Support Hours

3.1. Standard Support Hours: Toll-free telephone support (1-800-638-3748 option #2) is available Monday thru Friday from 8:00 a.m. EST to 8:00 p.m. EST. After-hours, holiday and weekend support for Severity 1 and Severity 2 issues is available by calling 1-800-638-3748, option #8.

4. Support Procedures

4.1. Customer identifies an issue or potential problem and calls Technical Services at 1-800-638-3748 Option #2. The Customer Service Associate or Technical Support Engineer will submit a SalesForce ticket. The Customer may also create its own online support request using the My Sensus Connection.

4.2. The Customer Service Associate or Technical Support Engineer will identify the caller name and utility by the assigned software serial number, city, and state based on where the call originated. The Customer Service Associate or Technical Support Engineer will require a brief description of the problem symptoms, or error messages depending on nature of the incident. The nature of the problem and severity levels will be mutually agreed upon by

both parties (either at the time the issue is entered or prior to upgrading or downgrading an existing issue) using the severity definitions below as a guideline. The severity level is then captured into SalesForce for ticket creation and resolution processing. Any time during the processing of this ticket, if the severity level is changed by Sensus, the customer will be updated.

a. Severity Levels Description:

Sev1 Customer's production system is down. The system is unusable resulting in total disruption of work. No workaround is available and requires immediate attention.

Example: Network mass outage, all reading collection devices inoperable, inoperable head end software (e.g., FlexWare, Sensus MDM). Not able to generate billing files.

Sev2 Major system feature/function failure. Operations are severely restricted; there is a major disruption of work, no acceptable work-around is available, and failure requires immediate attention.

Examples: Examples: Network equipment failure (e.g., FlexNet Echo, FlexNet Remote, Base Station transceiver, or VGB); inoperable reading devices (e.g., AR5500, VXU, VGB, or CommandLink); head end software application has important functionality not working and cannot create export file for billing system operations.

Sev3 The system is usable and the issue doesn't affect critical overall operation.

Example: Minor network equipment failure (e.g., Echo/Remote false alarms or Base Station transceiver false alarms); head end software application operable but reports are not running properly, modification of view or some non-critical function of the software is not running.

4.3. The Customer Service Associate or Technical Support Engineer identifies whether or not the customer is on support. If the customer is not on support, the customer is advised of the service options as well as any applicable charges that may be billed.

4.4. Calls are placed in a queue from which they are accessible to Technical Support Engineers on a first-come-first-served basis. A 1st level Customer Service Associate may assist the customer, depending on the difficulty of the call and the representative's technical knowledge. Technical Support Engineers (Tier 1 support) typically respond/resolve the majority of calls based on their product knowledge and experience. A call history for the particular account is researched to note any existing pattern or if the call is a new report. This research provides the representative a basis and understanding of the account as well as any associated problems and/or resolutions that have been communicated.

a. Technical Services confirms that there is an issue or problem that needs further analysis to determine its cause. The following information must be collected: a detailed description of the issue's symptoms, details on the software/hardware product and version, a description of the environment in which the issue arises, and a list of any corrective action already taken.

b. Technical Services will check the internal database and product defect tracking system, to see if reports of a similar problem exist, and if any working solutions were provided. If

an existing resolution is found that will address the reported issue, it shall be communicated to the customer. Once it is confirmed that the issue has been resolved, the ticket is closed.

c. If there is no known defect or support that defines the behavior, Technical Services will work with the customer to reproduce the issue. If the issue can be reproduced, either at the customer site or within support center test lab, Technical Services will escalate the ticket for further investigation / resolution.

If the issue involves units that are considered to be defective with no known reason, the representative will open a Special Investigation RMA through the SalesForce system. If it is determined that a sample is required for further analysis, the customer will be provided with instructions that detail where to send the product sample(s) for a root cause analysis. Once it is determined that the issue cannot be resolved by Tier 1 resources, the ticket will be escalated to Tier 2 support for confirmation/workarounds to resolve immediate issue. Technical Services will immediately contact the customer to advise of the escalation. The response and escalation times are listed in Section 5. At this time, screen shots, log files, configuration files, and database backups will be created and attached to the ticket.

5. Response and Resolution Targets.

Sensus Technical Support will make every reasonable effort to meet the following response and resolution targets:

Severity	Standard Target Response	Standard Target Resolution	Resolution (one or more of the following)
1	30 Minutes	Immediately assign trained and qualified Services Staff to correct the error on an expedited basis. Provide ongoing communication on the status of a correction (24 hours).	• Satisfactory workaround is provided. • Program patch is provided. • Fix incorporated into future release. • Fix or workaround incorporated into SalesForce Knowledge Base.
2	4 hours	Assign trained and qualified Services Staff to correct the error. Provide communication as updates occur (48 hours).	• Satisfactory workaround is provided. • Program patch is provided. • Fix incorporated into future release.

			• Fix or workaround incorporated into SalesForce Knowledge Base.
3	1 Business Day	30 business days	• Answer to question is provided. • Satisfactory workaround is provided. • Fix or workaround incorporated into SalesForce Knowledge Base. • Fix incorporated into future release.

6. Problem Escalation Process.

6.1. If the normal support process does not produce the desired results, or if the severity has changed, the issue may be escalated as follows to a higher level of authority.

6.1.1.1. Severity 1 issues are escalated by Sales or Technical Services to a Supervisor if not resolved within 2 hours; to the Manager level if not resolved within 4 hours; to the Director level if not resolved within the same business day; and to the VP level if not resolved within 24 hours.

6.1.1.2. A customer may escalate an issue by calling 1-800-638-3748, Option 2. Please specify the SalesForce ticket number and the reason why the issue is being escalated.

6.1.1.3. In the event that a customer is not satisfied with the level of support or continual problem with their products, they may escalate a given SalesForce ticket to Manager of Technical Services (1-800-638-3748, Option 2).

7. General Support Provisions and Exclusions.

7.1. Sensus provides online documentation for Sensus products, and all Sensus customers are provided access to this online database, which includes operation, configuration and technical manuals. The customer shall provide names and email accounts to Sensus so Sensus may provide access to the product documentation.

7.2. Specialized support from Sensus is available on a fee basis to address support issues outside the scope of this support plan, the scope of the C&M Contract, or if not covered under another specific contract or statement of work. For example: specialized systems integration services or out of warranty network equipment repair.

7.3. In the event customer submits a ticket for a version of the Software outside of the Engineering Support window and is not able to resolve the problem without engineering

resources. Sensus shall have no obligation to provide Engineering Support and Customer shall upgrade to the most current version of the Software.

7.4. Customer acknowledges that not all problems and bugs with the Software may or can be fixed. The Software and Software as a Service (including third party software used in connection with the Software as a Service) may have security vulnerabilities. Sensus may address vulnerabilities with its Software through Patches, Updates or Upgrades that it makes available from time-to-time. If SaaS services are terminated, Customer has the obligation to timely implement Patches, Updates and Upgrades.

Exhibit C
Network as a Service

Defined. Network as a Service (NaaS), as provided by Sensus or C&M to Customer under this Agreement, means only the items in Section I below. If an item is not included in Section I below, it is specifically excluded from NaaS and subject to additional pricing.

1. **NaaS Responsibilities.** Sensus and C&M shall be responsible for providing the following services to the Customer for so long as Customer is current in its payments for NaaS. The RACI table below designates the party responsible for the applicable NaaS obligation. In the event that the Customer elects to terminate the NaaS and retain SaaS, the RACI table will be updated based on the revised scope.

NaaS RACI

The below RACI Matrix represents the responsibilities of each party with NaaS. In the event that the Customer elects to terminate the NaaS service and retain SaaS service, Customer and Sensus shall update the RACI table based on revised scope at the time such NaaS service is terminated.

RACI INDICATORS: R = Responsible (i.e., the responsible party for the obligations listed below.), F = Flexible (i.e., obligations that must be assigned with an "R" prior to contract execution.)

A. **RF Network Design and Architecture.**

Ongoing NaaS Operations RACI	Sensus	Distributor	Customer
Gather Customer defined requirements and features for design of the FlexNet Network (defined below		R	
Design the FlexNet Network based on identified vertical asset locations and determine site specifications for the final engineered network.	R		
Perform preliminary site visits.		R	

Propagation study of record is created and will be used in the FlexNet Network design per Customer defined requirements.	R		
Create statement of work for the installation of the RF Field Equipment.		R	
Build a schedule and project plan for the construction of the FlexNet Network.		R	
Redesign the FlexNet Network if Customer defined requirements change (pricing may be adjusted to reflect changes)	R		

B. **RF Field Equipment Installation.**

Ongoing NaaS Operations RACI	Sensus	Distributor	Customer
Order and deliver RF Field Equipment materials (cables, antennas, etc.) as required by the FlexNet Network design.		R	
Acquire any necessary sites and leases for identified vertical assets.		R	
Installation and construction to support deployment of RF Field Equipment as required by the FlexNet Network.		R	
Manage third-party subcontractors as needed.		R	
Perform RF / Noise analysis and resolution as required.	R		
Certify installed RF Field Equipment.	R		

C. **Ongoing Operations Management.**

i. Day-to-day operations, management, maintenance, and monitoring of the RF Field Equipment at a level described in this statement of work.

ii. Monitor, via Sensus' Network Operation Center ("NOC"), RF Field Equipment, FlexNet communications infrastructure, and WAN Backhaul communications hardware (collectively, the "FlexNet Network") to ensure the early identification and resolution of anomalies within the FlexNet Network on a 24 x 7 x 365 basis.

iii. Monitor and manage FlexNet Network Software using standard key performance

indicators for performance & capacity management.

iv. Monitor and respond to FlexNet Network outages, Technical Support ticket generation, and other alerts regarding the FlexNet Network
v. Perform remote initial triage and troubleshooting of reported issues.
vi. Dispatch resources for any issues identified by Sensus that cannot be resolved remotely for onsite resolution.
vii. Provide remote Software maintenance, which includes Patches, Updates, and Upgrades for the FlexNet Network.
viii. Participate and support standard change management controls and root cause investigation analysis in accordance with Customer's change management practices, policies, and procedures.
ix. Dispatch personnel and RF engineer technicians to identify and troubleshoot RF interference and perform necessary tasks to mitigate the RF interference.
x. File any necessary complaints with the FCC to stop any unlawful or harmful interference with the Spectrum.
xi. Cybersecurity of FlexNet Network will be managed, monitored and maintained by Sensus Security team.
xii. Perform network tuning to maximize FlexNet Network
    a. Network tuning includes looking at stale meters, Read Interval Success ("RIS"), RF channels, and overall network, capacity, and performance. Meter configuration and channel configuration changes will be made to ensure optimal performance is achieved on each channel and frequency.

D. **Ongoing Maintenance of the FlexNet Network.**

i. Perform routine field preventative maintenance (physical maintenance and RF analysis) in accordance with FlexNet Network preventative maintenance instructions, to include but not limited to:
    a. Visit each piece of RF Field Equipment once every twelve (12) months.
    b. Create and complete checklist reports of visits plus maintenance logs (with photos) to be stored in the ticketing system. Reports will be available to the Customer upon request.
    c. Conduct tests of the Voltage Standing Wave Ratio ("VSWR") and Distance To Fault ("DTF") of the antenna system.
    d. Inspection of antenna system.
    e. Inspection of exterior and interior of cabinet including GPS system.
    f. Power monitor and measurement.
    g. Software inspection and confirmation.
    h. Perform RF Interference and noise mitigation checks.

2. **Customer Responsibilities.**

A. **Generally**.

i. Provide adequate internal IT network infrastructure necessary for Sensus to meet performance metrics and Service Level Objectives defined below.
ii. If NaaS services are terminated, Customer shall provide the support,

maintenance, and monitoring of the Customer's dedicated WAN Backhaul. Sensus shall not be responsible for performance and availability of the WAN Backhaul network due to issues outside of Sensus' control.

iii. Provide and maintain the RF Field Equipment utilities, such as electric power, lighting, security fencing, drainage, vegetation management, etc. as required at each site. Provide required maintenance for RF Base Station/modem battery backup functionality.

3. **Service Level Objective(s)** ("**SLO(s)**"). All SLOs are measured by the calendar month and apply only to the Field Devices covered by the Certified Propagation Study. Sensus or C&M will provide a report to Customer on the SLOs defined below within ten (10) business days of the end of each month. Unless otherwise agreed to in writing, these SLOs will only take effect once the FlexNet System is fully deployed and accepted by Customer.

A. **FlexNet Network Availability.** Sensus endeavors to maintain an average availability of the FlexNet Network equal to the SLO Target defined below. The availability, cumulative across the entire FlexNet Network, is intended to measure the percentage of time during each calendar Month that the FlexNet Network was actually available to Customer for normal use. The FlexNet Network Availability shall be calculated as follows:

$$\text{FlexNet Network Availability} = 100 \times \frac{\text{(TMO – total Non-Scheduled Downtime minutes in the Month)}}{\text{TMO}}$$

i. **Definitions.**

a. "**Targeted Minutes of Operation**" or "**TMO**" means total minutes in the applicable calendar month ("Month") minus the Scheduled Downtime in the Month.

b. "**Scheduled Downtime**" means the number of minutes during the Month, as measured by Sensus, in which access to or use of the FlexNet Network is scheduled to be unavailable for use by Customer due to planned system or FlexNet Network maintenance. Sensus shall provide Customer notice (via email or otherwise) at least seven (7) days in advance of commencement of the Scheduled Downtime.

c. "**Non-Scheduled Downtime**" means the number of minutes during the Month, as measured by Sensus, in which access to or use of the FlexNet Network is unavailable for use by Customer due to reasons other than Scheduled Downtime or the Exceptions, as defined below (e.g., due to a need for unplanned maintenance or repair).

d. **"Exceptions"** is defined in Exhibit A (Software as a Service).

ii. **SLO Target: FlexNet Network availability of 99.0%.***

*Loss of any RF Field Equipment not impacting Sensus' ability to read Available Meters will be excluded from this SLO Target.

iii. **NaaS Credits.** For each Month that the FlexNet Network Availability falls below the SLO Target, Customer will accrue NaaS service level credits ("NaaS Credits")

in accordance with the table below:

FlexNet Network Availability per Month	NaaS Credit
Less than 99.0% but at least 97.5%	3% of the monthly NaaS fees in which the SLO default occurred (Note: NaaS fees are prepaid annually but for purposes of NaaS Credits are computed on a monthly basis.)
Less than 97.5% but at least 95.0%	5% of the monthly NaaS fees in which the SLO default occurred
Less than 95.0%	7% of the monthly NaaS fees in which the SLO default occurred

iv. **Complete NaaS OutageCredits.** Withstanding the Exceptions defined in Exhibit A (Software as a Service), if the FlexNet Network Availability equals zero percent (0%) for forty-eight (48) consecutive hours during the Term of this Agreement ("Complete NaaS Outage"), Customer will accrue NaaS Credit equal to the amount of the full monthly NaaS fees attributable to the month in which the Complete NaaS Outage occurred.

v. **Process.** With the exception of Complete NaaS Outage credits outlined above, NaaS Credits for any single month may not exceed seven percent (7%) of the NaaS fee associated with the month in which the SLO default occurred. Sensus records and data will be the sole basis for all NaaS Credit calculations and determinations, provided, however, that Sensus will make such records and data available to Customer for review upon request. To receive a NaaS Credit, Customer must issue a written request no later than ten (10) days after the NaaS Credit has accrued. Sensus will apply each valid accrued NaaS Credit to the Customer's C&M account as a refund after Sensus' receipt of Customer's request and confirmation of the failure to meet the FlexNet Network Availability. NaaS Credits will not be payable for failures to meet the monthly FlexNet Network Availability Rate caused by any of the Exceptions. No NaaS Credit will apply if Customer is not current in its payment obligations under this Agreement. NaaS Credits are exclusive of any applicable taxes charged to Customer or collected by Sensus. **THE SERVICE LEVEL CREDITS DESCRIBED IN THIS SECTION ARE THE SOLE AND EXCLUSIVE REMEDY FOR SENSUS AND ITS AUTHORIZED DISTRIBUTOR'S FAILURE TO MEET THE SLO TARGET DESCRIBED ABOVE. IN NO EVENT SHALL THE AGGREGATE AMOUNT OF SERVICE LEVEL CREDITS IN ANY ANNUAL PERIOD EXCEED TWENTY PERCENT (20%) OF THE ANNUAL NAAS FEES**.

Exhibit D
Insurance Requirements

TYPE OF INSURANCE COVERAGE	COMMERCIAL GENERAL LIABILITY (CGL)	UMBRELLA	AUTO LIABILITY	WORKERS'S COMPENSATION	PROFESSIONAL LIABILITY (Errors and Omissions)
REQUIRED BY CONTRACT?	YES	YES	YES	YES	YES, For Professional Services
MINIMUM LIMITS OF COVERAGE	$1,000,000 per occurrence of claim, $2,000,000 aggregate	$5,000,000 per occurrence	$1,000,000 per occurrence	Workers Compensation to Statutory Limits; $1,000,000 Employers' Liability limit	$1,000,000 per occurrence or claim, $2,000,000 aggregate with a reporting period of no less than 2 years
MINIMUM BEST'S GUIDE RATING/OTHER REQUIREMENTS	A /AVII; insurer shall be licensed to do business in the State of Florida	A /AVII; insurer shall be licensed to do business in the State of Florida	A /AVII; insurer shall be licensed to do business in the State of Florida	Insurer shall be licensed to do business in the State of Florida	A /AVII; insurer shall be licensed to do business in the State of Florida
ADDITIONAL INSURED? Minimum language if required: "City of Wauchula, its elected officials, directors, officers, agents,	YES (see comment 1 below)	YES (see comment 1 below)	YES (see comment 1 below)	NO	NO

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employees, and volunteers are additional insureds"					
WAIVER OF SUBROGATION?	NO	NO	NO	YES	NO

COMMENTS:

1)Sensus shall provide the Customer with a Certificate of Insurance. The Certificate of Insurance must name as an additional insured the Customed, its elected officials, directors, officers, agents, employees, and volunteers; must provide that such insurance is primary to any other insurance available to the additional insureds with respect to claims covered under the policy; and must provide that such insurance coverage applies separately to each insured against whom claims are made or suit is brought; but the inclusion of more than one insured shall not operate to increase the insurer's limit of liability. Certificates of Insurance shall be mailed to the Customer at City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873.
2) All policies required under this Exhibit shall be "Occurrence" policies. Policies shall contain a waiver of subrogation in favor of the Customer.
3) If there is any failure by Sensus to comply with the provisions of this section, the Customer may, at its option, on notice to the Sensus, suspend the work for cause until there is full compliance.
4) If Sensus fails to provide Customer satisfactory proof that it has obtained the requisite insurance policies or if Sensus allows a policy to lapse during the Term of the Agreement, the Customer may, at its sole discretion, purchase such insurance at Sensus's expense, provided that the Customer shall have no obligation to do so and if the Customer shall do so, it shall not relieve Sensus of its obligation to obtain insurance.
5) If applicable, any subcontractors of Sensus shall procure and maintain the insurance required of Sensus hereunder during the term of the subcontract. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by Sensus.

Confidential

CITY OF WAUCHULA WARRANTY

The warranties on meters included in Project Materials and Supplies, and on Work, and Services shall be as follows:

1. Project Materials and Supplies.

(a) General. Meters and equipment included in Project Materials and Supplies that Client purchases from Core & Main LP ("Core & Main") are warranted by the manufacturer to be free from Manufacturers' Defects for the period specified in the manufacturer's warranty. A copy of the present warranty of each manufacturer that will supply meters and equipment as part of the Project Materials and Supplies is attached hereto. The term of such manufacturer's warranty shall be as set forth in such attached manufacturer's warranty (as the same may be changed from time to time during the course of the performance of the Agreement, but with changes to apply only to purchases of meters or equipment occurring after the change becomes effective), but generally the start date for warranties is the date of the manufacturer's shipment of such meters or equipment as noted in the applicable Acceptance Certificate ("Manufacturer's Warranty Period"). PROJECT MATERIALS AND SUPPLIES OTHER THAN METERS AND EQUIPMENT ARE NOT WARRANTED. CORE & MAIN DOES NOT PROVIDE ANY SEPARATE WARRANTY FOR PROJECT MATERIALS AND SUPPLIES.

(b) Core & Main's Responsibility. Upon any breach of the manufacturer's warranty on meters or equipment noticed to Core & Main during the applicable Manufacturer's Warranty Period, Core & Main's sole responsibility shall be to cooperate with Client in arranging for the manufacturer to repair or replace any defective meters or equipment.

2. Installation Work and Services.

(a) General. Core & Main warrants that all installation Work and Services provided by Core & Main shall be performed by Core & Main in a workmanlike manner and in compliance with any specifications set forth in this Agreement, with such warranty to expire one year from the date when such installation Work was performed or such Services were provided (the "Warranty Period").

(b) Exclusive Remedy. Upon any breach of Core & Main's warranty as to installation Work or Services during the applicable Warranty Period, Core & Main's sole responsibility shall be to perform any corrective installation Work or Services necessary to bring Core & Main's installation Work and Services into compliance with such requirements.

3. DISCLAIMER OF FURTHER LIABILITIES. EXCEPT FOR THE FOREGOING EXPRESS WARRANTY, CORE & MAIN DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT, WHETHER ARISING OUT OF WARRANTY, INDEMNITY, TORT, CONTRACT OR OTHERWISE, SHALL CORE & MAIN BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND.

Confidential | Core & Main

1. **General Product Coverage**. Unless otherwise provided herein, Sensus USA Inc. ("Sensus") warrants its products and parts to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment and as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at xylem.com.

2. **SR II® and accuSTREAM™ 5/8", 3/4" & 1" Meters** are warranted to perform to new meter accuracy level set forth in the SR II and accuSTREAM Data Sheets available at sensus.com for five (5) years from the date of Sensus shipment or until the regis¬tration shown below, whichever occurs first. Sensus further warrants that the SR II and accuSTREAM meters will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	New Meter Accuracy	Repair Meter Accuracy
5/8" SR II Meter and accuSTREAM Meter	500,000 gallons	1,500,000 gallons
3/4" SR II Meter and accuSTREAM Meter	750,000 gallons	2,250,000 gallons
1" SR II Meter and accuSTREAM Meter	1,000,000 gallons	3,000,000 gallons

3. **SR II maincases** are warranted to be free from defects in material and work-manship for twenty-five (25) years from the date of Sensus shipment. accuSTREAM maincases will be free from defects in mate¬rial and workmanship for fifteen (15) years from the date of Sensus shipment.

4. **ally® Meters** that register water flow are warranted to perform to the accuracy level set forth in the ally data sheet available at sensus.com for fifteen (15) years from the Date of Installation, but no longer than sixteen (16) years from date of manufacture, not including the meter's sensors, valve, and gear motor, which are warranted under different terms described below. As used herein, "Date of Installation" means the date after which the ally Meter has been out of empty pipe for seven (7) consecutive days, as those days are measured by the ally Meter and stored in the meter's nonvolatile memory.

5. **ally® Meter Batteries and Components**, including SmartPoint 510M/520M Modules are warranted to be free from defects in material and workmanship from the Date of Installation, as defined in Section 4, for the period stated below:

Batteries	15 years[1]
Sensors	5 years
Valve & Gear Motor	5 years[2]
SmartPoint 510M/520M modules and batteries in service w/ally	15 years[1]

6. **iPERL® Meters** that register water flow are warranted to perform to the accuracy levels set forth in the iPERL data sheet available at sensus.com for twenty (20) years from the date of Sensus shipment. The iPERL System Component warranty does not include the external housing.

7. **iPERL, ally, OMNI+, and Cordonel Connectors and Cables** are warranted to be free from defects in materials and workmanship, under normal use and service, for ten (10) years from the date of Sensus shipment. Nicor or Itron connectors included with a Sensus product are warranted according to the terms for Third-Party Devices in Section 16.

8. **Sensus OMNI™, OMNI+ Meters and Propeller Meters** are warranted to perform to as set forth in OMNI and Propeller data sheets for eighteen (18) months from the date of Sensus shipment.

9. **Sensus Cordonel Meters** are warranted to perform to the accuracy levels as set forth in the Cordonel data sheet available at sensus.com for twenty (20) years from the date of Sensus shipment. The Cordonel System Component warranty does not include the external housing.

10. **Sensus Cordonel maincases** are warranted to maintain their structural integrity for a period of twenty (20) years from the date of Sensus shipment.

11. **Cordonel Meter Batteries and Components** are warranted to be free from defects in material and workmanship from the Date of Installation, as defined in Section 9, for the period stated below:

Batteries	20 years[3]
Sensors	5 years
SmartPoint 510M/520M modules and batteries in service w/ Cordonel models with pressure	15 years[1]

12. **Sensus accuMAG™ and Hydroverse™ Meters** are warranted to be free from defects in material and workmanship, under normal use and service, for 18 months from the date of Sensus shipment or 12 months from startup, whichever occurs first.

13. **Sensus Registers** are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the periods stated below or until the applicable registration for AWWA Repaired Meter Accuracy Standards, as set forth above, are surpassed, whichever occurs first:

5/8" thru 2" SR II, accuSTREAM Standard Registers	25 years
5/8" thru 2" SR II, accuSTREAM Encoder Registers	10 years
All HSPU, IMP Contactor, R.E.R. Elec. ROFI	1 year
OMNI and OMNI+ Registers with Battery	10 years
Standard and Encoder Registers for Propeller Meters	1 year

14. **Sensus Electric and Gas Meters** are warranted pursuant to the General Limited Warranty available at sensus.com/TC.

15. **Batteries, iPERL System Components, AMR and FlexNet® Communication Network AMI Interface Devices** are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the period stated below:

7500 series Hand-Held Device	2 years
Act-Pak® Remote Monitoring Instruments	1 year
CPTP100	20 years[4]
EasyLink Reader	1 year
Electronic TouchPad	10 years
FlexNet Base Station (including the R100NA and M400 products)	1 year
Gas SmartPoint® Modules and Batteries	20 years[5]
iPERL System Battery and iPERL System Components	20 years[3]
RM4160	1 year

1 If applicable, any SmartPoint 510M/520M Modules ever paired with an ally meter or Cordonel with pressure meter are warranted with the following limitations:

- When configured to the default installation setting of six transmissions of metrology and pressure per day and one update of temperature per day, the SmartPoint module is warranted to perform up to five (5) firmware upgrades for the SmartPoint module and up to five (5) firmware upgrades for the ally meter or Cordonel (with pressure) meter;
- 2500 Operational Commands, where "Operational Commands" include on demand reads (such as consumption, pressure, temperature), an ally meter valve command, or a configuration command; and
- 15 Diagnostic Commands, which includes two-way communications tests and installations

for the first ten (10) years from Date of Installation at no cost. For the remaining five (5) years, Customer will pay the reduced Replacement Price of the then-current list price in effect at the time the product is accepted for return in accordance with the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-10	0%	13	55%	15	75%
11	35%	14	65%	>15	100%
12	45%				

2 Notwithstanding the foregoing, valve and gear motor components of ally meters are not warranted beyond two thousand (2000) Valve State Operations, even if the warranty period provided herein has not yet expired. As used herein, "Valve State Operations" means adjustments of the Meter to open, close, or reduce flow.

3 Sensus will repair or replace non-performing:

- iPERL System Batteries, and/or the iPERL System flowtube, the flow sensing and data processing assemblies, and the register ("iPERL System Components") with hourly reads manufactured after April 2018
- Cordonel System Batteries, the flow sensing and data processing assemblies, and the register ("Cordonel System Components")
- SmartPoint 510M/520M/515M//512M-PLS/522M Modules manufactured after April 2018 (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to five firmware downloads during the life of the product) and batteries, unless the SmartPoint 510M/520M/522M Module is ever paired with an ally Meter, which immediately amends the warranty terms to those described in Section 13 at no cost for the first fifteen (15) years from the date of Sensus shipment, and for the remaining five (5) years at a prorated percentage, applied towards the published list price in effect for the year the product is accepted by Sensus under the warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-15	0%	18	50%	20	70%
16	30%	19	60%	>20	100%
17	40%				

4 Sensus will repair or replace non-performing CPTP100 modules (configured at factory setting of four transmissions per day under normal system operations of up to one demand read per month and up to five firmware downloads during the life of the product) and batteries.

5 Sensus will repair or replace non-performing Gas SmartPoint Modules (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to five firmware downloads during the life of the product) and batteries, for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-10	0%	14	45%	18	65%
11	30%	15	50%	19	70%
12	35%	16	55%	20	75%
13	40%	17	60%	>20	100%

Sensus® Electronic Register+™	20 years[6]
Sensus® Smart Gateway Sensor Interface	1 year[7]
SmartPoint® 510M/520M/515M/512M Modules and Batteries	20 years[3]
Vehicle Gateway Base Station (VGB) and other AMR Equipment	1 year

16. **Third-Party Devices** are warranted to be free from defects in materials and workmanship, under normal use and service, for one (1) year from the date of Sensus shipment. As used in this Sensus Limited Warranty, "Third Party Devices" means any product, device, or component part used with a Sensus product that is manufactured or sold by any party that is not Sensus. Failure of a Third-Party Device which subsequently causes failure to a Sensus device shall be the responsibility of the manufacturer of the Third-Party Device.

17. **Software**. Software supplied and/or licensed by Sensus is supported accord¬ing to the terms of the applicable software license or usage agreement. Sensus warrants that any network and monitoring services shall be performed in a professional and workmanlike manner.

18. **Return**. Sensus' obligation, and Customer's exclusive remedy, under this Sensus Limited Warranty is, at Sensus' option, to either (i) repair or replace the product, provided the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the product (as instructed by Sensus), provided, that if Sensus requests, the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location. In all cases, if Customer does not return the product within the time period designated by Sensus, Sensus will invoice, and Customer will pay within thirty days of the invoice date, for the cost of the replacement product and/or components.

    The return of products for warranty claims must follow Sensus' Returned Materials Authorization (RMA) procedures. Water meter returns must include documentation of the Customer's test results. Test results must be obtained according to AWWA standards and must specify the meter serial number. The test results will not be valid if the meter is found to contain foreign materials. If Customer chooses not to test a Sensus water meter prior to returning it to Sen-sus, Sensus will repair or replace the meter, at Sensus' option, after the meter has been tested by Sensus. The Customer will be charged Sensus' then current testing fee. All products must be returned in accordance with the RMA process. For all returns, Sensus reserves the right to request meter read¬ing records by serial number to validate warranty claims.

    For products that have become discontinued or obsolete ("Obsolete Product"), Sensus may, at its discretion, replace such Obsolete Product with a different product model ("New Product"), provided that the New Product has substantially similar features as the Obsolete Product. The New Product shall be warranted as set forth in this Sensus Limited Warranty.

    THIS SECTION 18 SETS FORTH CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF THE PRODUCTS, SERVICES OR LICENSED SOFT¬WARE TO CONFORM TO THEIR RESPECTIVE WAR¬RANTIES.

19. **Warranty Exceptions and No Implied Warranties**. This Sensus G-500 Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus G-500 Limited Warranty do not apply to and Sensus has no liability for goods that have been: installed improperly or in non-recommended installations; installed to a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted; altered; damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions."). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing, or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

THE WARRANTIES SET FORTH IN THIS SENSUS G-500 LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS SENSUS G-500 LIMITED WARRANTY OR WITH THE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SOFTWARE SERVICES, AND OTHER SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

20. **Limitation of Liability**.

    a. SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

    b. AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) MANUAL METER READ COSTS AND EXPENSES.

    c. The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

    d. To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.

6 Sensus will repair or replace non-performing Sensus Electronic Register+ with hourly reads for the first ten (10) years from the date of Sensus ship¬ment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price	Years	Replacement Price
1-10	0%	14	45%	18	65%
11	30%	15	50%	19	70%
12	35%	16	55%	20	75%
13	40%	17	60%	>20	100%

7 Sensus® Smart Gateway Sensor Interface warranty valid only for analog Meter Sample Rates of four times per hour with a Standard Transmit Rate of hourly or greater for the analog channel(s).

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Contract Bidding Documents

TENNESSEE STREET ROADWAY IMPROVEMENTS

City of Wauchula
126 South 7th Avenue
Wauchula, Florida 33873

FPID 447956-1

Mandatory Pre-Bid Meeting:
Date: **XX XX, 2025**
Time: **XX:XX AM**
Location: City of Wauchula Administration Building
126 South 7th Avenue
Wauchula, Florida 33873

Sealed Bids Due:
Date: **XX XX, 2025**
Time: **XX:XX PM**
Location: City of Wauchula Administration Building
126 South 7th Avenue
Wauchula, Florida 33873

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DIVISION 1:
INSTRUCTIONS TO BIDDERS

INVITATION FOR BID

Sealed Bids will be received by the City of Wauchula located at 126 South 7th Avenue, Wauchula, Florida 33873, until X:XX PM local time on XX XX, 2025. Bids received after said time will be returned unopened. The Bidder shall be solely responsible for delivery of their Bid. Reliance upon mail or public carriers is at the Bidder's risk.

The principal features of the Work are:
1. 1/4 mile of roadway reconstruction on Tennessee Street
2. Select demolition and reconstruction of concrete curb and gutter, sidewalk, driveways, and ramps.
3. Striping and signage

The Contract(s) awarded under this Solicitation will be funded by the Florida Department of Transportation using American Rescue Plan Act (ARPA) funds and are subject to requirements listed in the FDOT and ARPA agreements attached.

Plans and specifications are on file for inspection at the City of Wauchula Administration Building located at 126 South 7th Avenue, Wauchula, Florida 33873.

The Bidder is solely responsible for obtaining the Bid Documents. An electronic version of the Bid Documents may be downloaded from the City of Wauchula website at the following https://www.cityofwauchula.gov/

Sealed Bids shall reference the following on the outer envelope:

SEALED BID: BIDDER'S NAME AND ADDRESS
CITY OF WAUCHULA – TENNESSEE STREET ROADWAY IMPROVEMENTS –
FPID 447956-1

All Bids shall be publicly opened, read aloud and recorded at X:XX PM local time on XX XX, 2025 in the City of Wauchula Administration Building, 126 South 7th Avenue, Wauchula, Florida 33873.

Mandatory Pre-Bid Meeting: All interested Bidders must attend the entire meeting. Bidders not attending the Pre-Bid Meeting will have their Bids returned unopened. The Pre-Bid meeting will be held at XX:XX AM local time on XX XX, 2025 in the City of Wauchula Administration Building, 126 South 7th Avenue, Wauchula, Florida 33873.

Questions: All questions regarding this Invitation for Bid shall be submitted in writing and delivered to Stephanie Camacho, City Clerk, City of Wauchula, 126 South 7th Avenue, Wauchula, FL 33873, or via email: scamacho@cityofwauchula.com.

SECTION 1.1: GENERAL INSTRUCTIONS TO BIDDERS

1.1.1 Defined Terms in the Instructions to Bidders

A. The words and terms defined in DIVISION 3: TERMS AND CONDITIONS are hereby incorporated by reference into this part.

1.1.2 Minimum Qualifications for Eligibility to Bid

A. Receipt of this Solicitation and other Bid and Contract related documents from the Owner or its designated representatives does not constitute the Owner's approval of the Bidder's qualifications.

B. Bidders shall have the following minimum qualifications to be considered eligible to bid in response to this Solicitation. It is the responsibility of the Bidder to ensure and certify that it meets the minimum qualifications. Bidders not meeting all of the following criteria will not have their Bids considered for Award.

1. Bidder shall be a licensed contractor in the State of Florida, in accordance with Chapter 489, *Florida Statutes*.

2. Bidder shall have been in the business of performing projects of the same scope for at least the past five (5) years.

3. Bidder shall demonstrate that it has successfully completed at least three (3) projects of similar scope and scale to the Work described herein, for at least two (2) different Florida government agencies within the past five (5) years. Bidder shall submit names and contact information for each referenced project. Factors the Owner may consider to make a determination of the Bidder's eligibility under this criterion include but are not limited to:

   a. The Bidder's ability to perform work in a satisfactory manner as evidenced by the Bidder's past performance on other projects performed for the Owner, and

   b. The Bidder's past performance of satisfactory work as evidenced by project descriptions submitted for three stated projects as part of the Bid and the Owner's verification of associated references; and

   c. The Bidder's past performance as evidenced by any other information the Owner gathers or obtains during the Bid review process, including but not limited to information included on the Bidder's Qualifications questionnaire.

C. The Bidder certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds and other credentials required by law, Contract or practice to perform the Work. The Bidder also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Bidder shall immediately notify the Owner of the change.

1.1.3 Bid Security

A. Each Bid is to be accompanied by a Bid Security made payable to the Owner in an amount at least equal to five (5) percent of the Bidder's maximum Bid Price and in the form of a Certified Check or Bid Bond. Failure to furnish the required Bid Security will disqualify the Bid.

1.1.4 Minority and Women's Business Enterprise Goals

A. DIVISION 4: SUPPLEMENTAL CONDITIONS states the goals of Minority Business Enterprise (MBE) participation and Women's Business Enterprise (WBE) participation in the Work. The Bidder is expected to fully comply with the requirements for MBE and WBE participation as stated in DIVISION 4: SUPPLEMENTAL CONDITIONS of this document. Failure to comply with these requirements will disqualify the Bid.

1.1.5 Notice of Liquidated Damages

A. In the event a Contract is awarded as a result of this Solicitation, the Contract will be subject to liquidated damages as set forth in DIVISION 3: TERMS AND CONDITIONS.

1.1.6 Florida Trench Safety Act

A. The Bidder shall complete and submit with its Bid the Florida Trench Safety Act Acknowledgment form, in accordance with Section 553.60, *Florida Statutes, et. seq.*, when the Work includes trench excavations that exceed five (5) feet in depth and as written assurance that the Bidder shall comply with all applicable trench safety standards, laws, rules and regulations during performance of any Work awarded from this Solicitation.

1.1.7 Subcontractors

A. The Bidder shall supply with their Bid a list of all Subcontractors and Suppliers that it intends to use for the Work. The Successful Bidder shall not be permitted to use Subcontractors and Suppliers other than those shown in the Bid unless good cause is shown and prior written consent is obtained from the Owner.

B. If the Bidder plans to use a single Subcontractor or Supplier to perform over 50% of the Work, the Bidder shall obtain the Owner's approval prior to the opening of Bids. Failure to obtain the Owner's approval will disqualify the Bid.

C. Bidder's choice of subcontractors or subconsultants must be approved by the Owner. While the Owner shall have the right to approve or reject each subcontractor or subconsultant, such approval shall not be unreasonably withheld.

D. The Bidder may not use as a Subcontractor or Supplier, any Bidders that were rejected in the Bid process due to incomplete status or unqualified Bids.

1.1.8 Payment and Performance Bonds

A. As stated in DIVISION 3: TERMS AND CONDITIONS of the Contract Documents, the successful Bidder shall be required to furnish a Payment Bond and a Performance Bond in accordance with Section 255.05, *Florida Statutes* prior to the start of any Field Work.

1.1.9 Estimated Quantities Provided for Bidding Reference

A. The Bidder understands and agrees that the Owner's estimated Contract amounts shall not obligate the Owner in any way to issue Purchase Orders under the Contract of this amount, or any amount of Work under the Contract. The Owner may, at its sole discretion, issue Purchase Orders under the Contract totaling more or less than the estimated amounts, or may award the Contract, and is under no obligation to issue any Purchase Orders under the Contract. In the event that quantities change after Award, the changes to price and/or scope shall be made in accordance with the terms and conditions stated in the Contract Documents.

B. Any item not shown on the Bid Form, but that is shown in the Drawings or Technical Specifications section, that is required to perform the Work, or that is required as part of a complete and operable system, shall be included in the Bid Price.

1.1.10 Existing Site Conditions & Technical Data

A. Where the Bidder visits sites, no Work or other disturbance is to be performed while at the site without written permission by the Owner in advance of the site visit. The Bidder shall comply with all safety requirements described in the Bid Documents and the Owner may require the Bidder to show proof of a minimum of $1 million of general liability insurance.

B. No reports of Hazardous Materials at the Site are known to the Owner or the Engineer, unless disclosed in the specifications.

C. In the preparation of Drawings and Technical Specifications, the Engineer relied upon the following drawings of physical conditions in or relating to existing surface and subsurface structures (except Underground Facilities) which are at or contiguous to the Site:

1. Topographical Survey provided by D.C. Johnson Associates, Dated 11/18/2022 and revised 10/02/2023.

D. Copies of the reports (and drawings) itemized above that are not included with the Bid Documents may be examined at Kimley-Horn and Associates, Inc. located at 109 South Kentucky Avenue, Lakeland, FL 33801 during regular business hours. These reports (and

drawings) are not part of the Contract Documents but comprise additional “technical data” upon which the Bidder may rely as identified and established.

E. The Bidder is solely responsible for obtaining and verifying all technical data necessary to submit its Bid.

1.1.11 Pre-Bid Clarifications & Addenda

A. All questions regarding the Bid Documents must be submitted to the Procurement Representative identified in the Solicitation no later than ten (10) business days prior to the Bid Opening date. The Bidder shall promptly give the Owner written notice of any errors, conflicts or ambiguities it discovers in the Bid Documents.

B. If the Bidder objects in any manner to the Terms and Conditions or Technical Specifications, the objection must be addressed in writing no later than ten (10) business days prior to the Bid Opening Date. The Owner will address the objection in an Addendum if the Owner believes that a clarification or change is necessary.

C. The Owner may issue Addenda prior to the opening of Bids to change or clarify the intent of the Bid Documents. The Owner will issue written responses to questions and requests for clarifications received by the stated deadline in the form of Addenda and will distribute Addenda to all Bidders who have attended the Pre-Bid Meeting and provided acceptable contact information.

D. The Bidder shall be responsible for ensuring it has received all Addenda prior to submitting its Bid and shall acknowledge receipt of all Addenda by completing the Bidder’s Representation section on the Bid Form in DIVISION 5: FORMS. All Addenda will become part of the Bid Documents and any resulting Contract Documents. Failure to acknowledge receipt of Addenda may be grounds for rejection of a Bid at the Owner’s sole discretion.

1.1.12 Completing the Bid Form

A. Bidders shall complete and submit the enclosed Bid Form with responses typewritten or written in ink. When a blank is marked "optional", the Bidder shall insert the words "No Bid" in the space provided if the Bidder does not choose to submit a price for that item.

B. Failure to complete each blank with either a price or the words "No Bid" may disqualify the Bid. Failure to submit a Bid that addresses all parts of the Work may disqualify the Bid.

C. The Bidder, or its authorized agent or officer of the firm, shall sign the Bid Form. Failure to sign the Bid Form may disqualify the Bid.

D. Owner-approved erasures, interlineations or other corrections shall be authenticated by affixing in the margin, immediately opposite the correction, the handwritten signature of each person executing the Bid. Failure to authenticate changes may disqualify the Bid.

E. The Owner will review the Bids to determine that they meet the specifications set for the Work in the Bid Documents. The Owner may disqualify any Bids that deviate from the requirements of this Solicitation, and those that include unapproved exceptions, amendments, or erasures.

F. Failure to complete and submit all additional forms and documentation required in the Bid Documents to accompany the Bid Form may disqualify the Bid.

1.1.13 Modification or Withdrawal of Bids

A. The Bidder may modify or withdraw its Bid at any time prior to the advertised Bid Opening by giving written notice to the City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873. The Owner shall not accept any modifications to Bids after the advertised Bid Opening. The Bidder shall not withdraw its Bid for a period of 120 calendar days following the advertised Bid Opening.

1.1.14 Submitting the Bid Documents

A. The Bidder shall submit its Sealed Bid in response to this Solicitation no later than the Bid Due Date and Time stated in the Invitation for Bid, or as may be subsequently amended via Addenda. The Bid shall be sealed and the envelope clearly marked with the title stated in the Invitation for Bid and the Bidder's name and address. The Sealed Bid may be enclosed in another mail or courier service package.

B. The Bidder shall submit one (1) original Bid and two (2) duplicates of the original Bid.

C. All Bids must be received at the location and by the date and time stated in the Invitation for Bid, or as may be subsequently amended via Addenda. The Bids from all Bidders will be publicly read at the date and time advertised for the Bid Opening. Bids arriving after the advertised Bid Opening date and time and/or at an incorrect location will be returned to the Bidder unopened. Reliance upon third-party courier or delivery service is at the Bidder's risk.

D. All information marked by the Owner or the Bidder as "Confidential Information" that is included in the Solicitation or that is submitted by the Bidder as part of its Bid shall be handled in accordance with the terms and conditions stated in DIVISION 3: TERMS AND CONDITIONS.

1.1.15 Opening of Bids

A. The Owner will open Bids at the date, time and location stated in the Invitation for Bid, or as may be subsequently amended via Addenda. At the Bid Opening, the Owner will

publicly open and read each Bid that was received prior to the advertised deadline for bid submissions, except those that have been properly withdrawn.

B. The Owner has the right to waive any irregularities or informalities in the Bids.

C. Copies of all Bids will be available for public inspection ten (10) business days after the Bid Opening date. Bidders may review opened Bids by contacting the designated Owner Representative to arrange a mutually convenient time for such review at the Owner's offices.

1.1.16 Calculation of Bid Price

A. The Owner will use the Bidder's base bid when making price comparisons for Award purposes.

B. The Owner will consider alternate Bids only if the Bidder submits a base Bid in accordance with the Bid Documents. The Owner will review alternates on the Bid Form, and will reject or accept at the Owner's sole discretion.

1.1.17 Award

A. The Owner will Award the Contract to the lowest, responsive and responsible Bidder whose Bid meets or exceeds specifications, in accordance with the Contract Documents. The Owner reserves the right to reject any/all Bids, in whole or in part, as deemed to be in the Owner's best interest.

1.1.18 Notice of Award

A. The Owner intends to Award one Contract for as many items as possible to achieve maximum benefit from this Contract. The Owner may Award more than one Contract, based on certain groupings of items, which the Owner may revise or reorganize, or the Owner may exclude line items if in its best interest. In the event the Owner makes an award as a result of this Solicitation, the Owner will issue a Notice of Award, in writing and signed by an authorized Owner's Representative as notice to the Bidder that the Owner has deemed it the successful Bidder.

B. The Notice of Award will be accompanied by relevant Contract Documents for execution. Unless expressly waived by the Owner, the Successful Bidder shall execute a Contract for the Work in a form acceptable to the Owner within the timeframe stated on the Notice of Award. If the Bidder fails to execute the Contract Agreement form or associated documents, or to obtain the necessary bonds, licenses or insurances as required, or if it fails to act on an Owner-issued Purchase Order ("PO"), the Owner may cancel the Award with no further liability to the Bidder, retain the Bid Security, and Award to the next lowest responsive and responsible Bidder.

C. Upon receipt of the completed documents, the Owner will execute the Contract Documents and issue the Contractor one fully executed original copy. No other Owner action shall constitute acceptance of the Bid.

1.1.19 Notice to Proceed

A. Upon receipt of the executed Contract, the required Payment Bond, Performance Bond, and compliant Certificate of Insurance, the Owner will issue a Notice to Proceed in writing and signed by an authorized Owner's Representative as authorization for the Contractor to proceed with the Work, unless otherwise stated in the Contract.

B. In the event that the Owner intends to authorize the Successful Bidder to proceed with Administrative Work only, or with only a portion of the Work, then the Owner shall state the specific limitations of such authorization in a written notice, and the Owner will issue a separate Notice to Proceed to authorize the Contractor to begin Field Work, when applicable, or to perform the remainder of the Work, or any portion thereof. The Contractor shall ensure that it is prepared to begin Field Work upon receipt of the Notice to Proceed. Any Work performed outside of this partial authorization shall be at the Contractor's risk and the Owner shall have no obligation to pay for such Work.

1.1.20 Certification and Representations of the Bidder

A. By signing and submitting a Bid, the Bidder certifies and represents as follows:

1. That it has carefully examined all available records and conditions, including sites if applicable, and the requirements and specifications of these Bid Documents, including but not limited to all sample Contract Documents, Technical Specifications, Drawings, exhibits and attachments thereto, prior to submitting its Bid.

2. That every aspect of its submitted Bid, including the Bid Price and the detailed schedule for the execution of the Work, are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Owner. The Owner assumes no responsibility for any understanding or representation made by any of the Bidder's representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that the Owner assumes the responsibility.

3. That the individual signing the bid is a duly authorized agent or officer of the submitting firm. Bids submitted by a corporation must be executed in the corporate name by the President or a Vice President. If an individual other than the President or a Vice President signs the bid, satisfactory evidence of authority to sign must be submitted with the bid. If the bid is submitted by a partnership, the bid must be signed by a partner whose title must appear under the signature. If an individual other than a partner signs the bid, satisfactory evidence of authority to sign must be submitted

with the bid. The corporation or partnership must be in active status at the Florida Division of Corporations at the time of submission of the Bid.

4. That the submitting Bidder maintains in active status any and all licenses, permits, certifications, insurance, bonds and other credentials including not limited to contractor's license and business registration tax necessary to perform the Work. The Bidder also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Bidder shall immediately notify the Owner of any change.

5. That it has read, understands and will comply with the Article 1.1.22 of this section entitled "Ethics."

1.1.21 Conflict of Interest

A. Any Bidder bidding the construction phase of a project cannot at the time of Bid submittal, be affiliated with or have any direct or indirect ownership interest in the architect/engineer ("Designer') of record. The Bidder will also be prohibited from bidding if the Designer has any direct or indirect ownership interest in the Bidder. Should the Owner erroneously award a contract in violation of this policy, the Owner may terminate the contract at any time with no liability to Contractor, and Contractor shall be liable to the Owner for all damages, including but not limited to the costs to rebid the Project. The purpose of this policy is to encourage open, fair and competitive bidding and to eliminate any actual or perceived advantage that one bidder may have over another. In addition to this policy, Design Build projects are governed by the provisions of Section 287.055(9)(b), *Florida Statutes*.

1.1.22 Ethics

A. By signing the Bid Form, the Bidder certifies this Bid is made without any previous understanding, agreement or connection with any other person, firm, or corporation submitting a Bid for the same Work other than as a Subcontractor or supplier, and that this Bid is made without outside control, collusion, fraud, or other illegal or unethical actions. The Bidder shall comply with all Owner ordinances, policies and procedures regarding business ethics.

B. The Bidder shall submit only one Bid in response to this Solicitation. If the Owner has reasonable cause to believe the Bidder has submitted more than one Bid for the same Work, other than as a Subcontractor or Supplier, the Owner may disqualify the Bid and may pursue debarment actions.

C. The Bidder shall disclose the name(s) of any public officials who have any financial position, directly or indirectly, with this Bid by submitting such information with its Bid. Failure to do so will disqualify the Bid. If the Owner has reason to believe that collusion exists among the Bidders, the Owner will reject any and all Bids from the suspected Bidders and may proceed to debar the Bidder(s) from future Work.

D. In accordance with Section 287.133, *Florida Statutes* the Owner will reject Bids from any persons or affiliates convicted of a public entity crime as listed on the Convicted Vendors list maintained by the Florida Department of Management Services. The Owner shall not make an Award to any officer, director, executive, partner, shareholder, employee, member, or agent active in management of the Bidder listed on the Convicted Vendor list for any transaction exceeding $10,000 for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor list.

E. If the Bidder violates any requirement of this Section, the Bid may be rejected and the Owner may debar the offending companies and persons from future Work with the Owner.

1.1.23 Ex Parte Communication

A. Ex Parte Communication is strictly prohibited. Failure to adhere to this policy will disqualify the noncompliant Bidder's Bid. The Owner's policy on Ex Parte Communication will not prohibit the following:

1. Meetings called or requested by the Owner and attended by the Bidders for the purpose of discussing this Solicitation, evaluation, or selection process including, but not limited to, substantive aspects of the Solicitation. Such meetings may include, but are not limited to, Pre-Bid meetings, site visits to the Owner's or the Bidders' facilities, interviews/negotiation sessions as part of the selection process, and other presentations by the Bidders, all of which are requested by the Owner and will be limited to topics specified by the Owner.

2. The addressing of the Owner at public meetings advertised and conducted pursuant to Section 286.011, *Florida Statutes*.

3. The filing of a written protest to any proposed Award to be made pursuant to this Solicitation, evaluation and selection process, which filing and prosecution shall give notice to all Bidders. Protest proceedings shall be limited to open public meetings advertised and conducted pursuant to Section 286.011, *Florida Statutes* with no Ex Parte Communication outside those meetings.

4. Communications between the Owner representatives and the Bidder for routine matters arising from procurements other than this Solicitation.

5. Written communication between potential Bidders and the Engineer provided copies of written communications are provided to all Bidders.

1.1.24 Prohibition Against Contingent Fees

A. The Bidder warrants that it has not employed or retained any company or person, other than a bona fide employee working for the Bidder, to solicit or secure a contract with the

Owner, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Bidder, any fee, commission, percentage, gift, or any other consideration, contingent upon or resulting from the Award or making of the Contract. For the breach or violation of these provisions, the Owner shall have the right to disqualify the Bid and pursue debarment or terminate the Contract without liability and at its discretion, to deduct from the Contract Price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration.

1.1.25 Protest of Bid and Award Process

A. Bidders shall file any protests regarding this Solicitation in writing, and shall submit such to the Owner's Procurement Representative noted on the Solicitation no later than three (3) business days following the event giving rise to the protest. Failure to submit a written protest within the timeframe herein will constitute a waiver of the right to pursue a protest.

B. The written protest shall include at minimum the following information:

1. Project or bid number of the solicitation protested;

2. Title of solicitation protested;

3. Specific identification of issue(s) protested; and

4. Requested action for correction.

C. The Owner's Procurement Representative will review the submitted information to ensure completeness and submit the issue to a committee comprised of the Owner's designated Project Manager for the Work, the City Manager and the Owner's Legal Counsel ("Protest Committee").

D. The Protest Committee will review the protest and may request a presentation by the Bidder of the protested issue. The Protest Committee will issue a written decision within fourteen (14) calendar days of receipt of the written protest.

1.1.26 Owner's Reservations

A. The Bid Documents provide potential Bidders with information to enable the submission of written offers. The receipt of Bid Documents is not a contractual offer or commitment by the Owner to purchase products or services.

B. Bids and Bid Prices shall be warranted for a period of one-hundred twenty (120) days following the opening of Bids, and no Bid may be withdrawn during such time period.

C. The Owner reserves the right to reject any or all Bids, or any part thereof, and/or to waive irregularities or informalities if such action is in its best interest. The Owner may reject any Bids that it deems incomplete, obscure or irregular including, but not limited to, Bids that omit a price on any one or more items for which prices are required, Bids that omit Unit Prices if Unit Prices are required, Bids for which the Owner determines that the Bid is unbalanced, Bids that offer Equal Items when the option to do so has not been stated, Bids that fail to include a bid bond, where one is required, and Bids from Bidders who have previously failed to satisfactorily complete Contracts of any nature for the Owner.

D. The Owner reserves the right to cancel, postpone, modify, reissue and amend this Solicitation at its discretion. The Owner reserves the right to cancel or change the date and time of the bid opening at any time prior to the advertised time.

E. The Owner may Award the Contract in whole or in part. In such cases whenever the Owner exercises any of these reservations, the Owner will make a reasonable effort to notify, in writing, all parties to whom Bid Documents were issued. The Owner may award multiple or split Contracts if it is deemed to be in the Owner's best interest.

1.1.27 Documents and Forms Included in the Bid Documents

A. The reference to and/or inclusion of the Contract Documents and other Contract related forms in the Bid Documents shall in no way be construed as an Award of the Work, or any portion thereof, or as an intention to award the Work. The Owner reserves the right to alter, amend or delete any portion of these forms, to exclude any form, or to require additional forms not listed herein prior to execution of the Contract Documents.

SECTION 1.2: REQUIRED FORMS TO SUBMIT WITH BID

1.2.1 Bid Forms

A. To submit a Bid in response to this Solicitation, all of the following forms must be completed and submitted as part of the Bid. Copies of the forms are contained in the Bid Documents. Additional copies may be requested by contacting the Owner.

1. Bid Form (form included in DIVISION 5: FORMS)

2. Bid Security (form included in DIVISION 5: FORMS)

3. Bidder’s Qualifications and supporting information (form included in DIVISION 5: FORMS)

4. Bidder’s Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years (form included in DIVISION 5: FORMS)

5. Drug-Free Workplace Certificate (form included in DIVISION 5: FORMS)

6. Florida Trench Safety Act Acknowledgement (form included in DIVISION 5: FORMS)

7. Non-Collusion Affidavit (form included in DIVISION 5: FORMS)

8. Public Entity Crimes Statement (form included in DIVISION 5: FORMS)

9. Tabulation of Subcontractors and Suppliers (form included in DIVISION 5: FORMS)

10. Evidence of authority to do business in the State of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;

    Contractor's License No.: _____.

[END OF SECTION]

DIVISION 2:
AGREEMENT

This Agreement is made and entered into on _____ ("Effective Date"), by and between THE CITY OF WAUCHULA, a Florida municipality located at 126 South 7th Avenue, Wauchula, Florida 33873 ("Owner") and _____, a [STATE OF INCORPORATION] corporation with principal offices at _____ [ADDRESS OF CONTRACTOR] ("Contractor").

Whereas, the Owner owns and maintains Tennessee Street ("Tennessee"); and

Whereas, the Owner has been awarded state funding through FDOT's Small County Outreach Program to resurface Tennessee Street, as well as federal funding under the American Rescue Plan Act of 2021, Pub. L. No. 117-2 ("ARPA"); and

Whereas, the Owner issued an Invitation for Bid and all associated Bid Documents for the Work titled "City of Wauchula – Tennessee Street Roadway Improvements," and;

Whereas, pursuant to section 287.05701, Florida Statutes, the Owner is prohibited from, and has not requested documentation of or considered, any vendor's social, political, or ideological interests when determining whether the vendor is a responsible vendor. Moreover, the Owner has not given preference to any vendor based on the vendor's social, political, or ideological interests; and

Whereas, the Contractor submitted a Bid in response to such Work, which was opened and accepted by Owner on _____, 2024, and;

Whereas, the Contractor represents it is capable and prepared to perform such Work as set forth in Invitation to Bid; and

Whereas, the Owner has determined that the Contractor's Bid is the lowest responsive and responsible Bid for the Work and has issued the Contractor a Notice of Award to such effect;

Therefore, the Owner and the Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

SECTION 2.1: WORK

2.1.1 Completion of Work

A. Contractor shall complete all Work as specified or indicated in the Contract Documents. Contractor's scope of services on the Work shall not substantially differ from Contractor's Bid unless agreed to in writing by the Parties or as otherwise The principal features of the Work are described as:

1. 1/4 mile of roadway reconstruction on Tennessee Street
2. Select demolition and reconstruction of concrete curb and gutter, sidewalk, driveways, and ramps.
3. Striping and signage

SECTION 2.2: CONTRACT PRICE

2.2.1 Contract Price

A. The Contractor shall perform the work for a not-to-exceed Contract Price of _____ [CONTRACT PRICE], or as may be amended in accordance with the Contract Documents, subject to the availability of lawfully appropriated funds.

2.2.2 Quantities

A. The Contract Price includes the Contractor's Bid Price. For items of the Work that are Unit Price, the prices shown on the Bid Form shall be used in determining the final Contract Price. As stated in the Bid Documents, estimated quantities provided on the Bid Form by the Owner are not guaranteed quantities. Actual quantities used in the Work may vary.

B. Regularly during the Work, and upon the Owner's review of the Final Application for Payment, the Owner, or its designated representative, will determine actual quantities used in the Work, and the Owner may issue a Change Order if required to alter the Contract Price.

SECTION 2.3: CONTRACT TIME

2.3.1 Time of the Essence

A. All time limits for Milestones, if any, Substantial Completion, and Final Completion and readiness for final payment as stated in the Contract Documents are of the essence.

B. As further stated in Section 3.19.20 below, the Owner's agreement to an extension of any applicable deadline for Milestones, if any, Substantial Completion, or Final Completion, among any other deadlines provided herein, shall not constitute a waiver of the Owner's right to enforce the Contractor's compliance with other deadlines as provided herein, nor shall the Owner's failure to enforce compliance with any particular deadline or event operate as acquiescence or waiver of the Owner's right to enforce the Contractor's compliance with other such deadlines.

2.3.2 Days to Achieve Substantial Completion and Final Payment

A. The Work will be required to have reached Substantial Completion within **180** calendar days after the issuance of the Notice to Proceed, and completed and ready for final payment in accordance with the Contract Documents within **210** calendar days after the date when the Contract Time commences to run.

SECTION 2.4: CONTRACT ROLES AND RESPONSIBILITIES

The Owner and the Contractor may alter or amend the individuals named herein, or name additional representatives, by promptly providing written notice to the other party of any changes.

The following individuals shall have the responsibilities set forth in the Contract Documents for their respective roles:

2.4.1 Contract Administrator:

Name: Olivia Minshew, City Manager
Agency/Company: City of Wauchula
126 South 7th Avenue
Wauchula, FL 33873
(863) 773-3131

2.4.2 Project Engineer:

Name: Mark Davies, PE
Agency/Company: Kimley-Horn and Associates, Inc.
109 South Kentucky Avenue
Lakeland, FL 33801
(863) 701-8702

2.4.3 Grant Administrator:

Name: [IF APPLICABLE]
Agency/Company: [IF APPLICABLE]

2.4.4 Contractor's Representative:

Name: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]
Agency/Company: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]

2.4.5 Contractor's Supervisor:

Name: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]
Agency/Company: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]

SECTION 2.5: CONTRACT DOCUMENTS

2.5.1 Contents

A. The following shall comprise the Contract Documents. The Owner shall generally consider this order of precedence in resolving any conflicts, errors or discrepancies:

1. Executed Amendments, Change Orders and Work Change Directives
2. This executed Agreement
3. Addenda to the Bid Documents
4. Florida Department of Environmental Protection Supplementary Conditions

5. Terms and Conditions and Supplemental Conditions, including the following Exhibits and Attachments thereto

6. Notice of Award

7. Notice to Proceed

8. Payment Bond and Performance Bond

9. Owner issued Purchase Orders

10. Owner's Technical Specifications, Drawings, Plans, Exhibits and Attachments

11. Contractor's Bid in response to the Invitation for Bid, including the Bid Form

B. The figure dimensions on drawings shall govern over scale dimensions. Contract and detailed drawings shall govern over general drawings. The Contractor shall perform any Work that may reasonably be inferred from the Contract as being required, whether or not it is specifically called for, at no additional cost to the Owner. Work, materials or equipment described in words that, so applied, have a well-known technical or trade meaning shall be taken as referring to such recognized standards.

C. By signing the Agreement, the Contractor represents that it has carefully examined the Contract Documents and agrees to perform the Work in accordance with the Contract Documents, as may be amended from time to time.

SECTION 2.6: NOTICES AND CORRESPONDENCE

2.6.1 Transmission Method

A. All notices required or permitted under this Contract shall be in writing and shall be deemed received if sent by one of the following means: upon receipt if delivered by hand; one day after being sent by an express courier with a reliable system for tracking delivery; three days after being sent by certified or registered first class mail, postage prepaid and return receipt requested; or upon confirmed facsimile transmission provided that a copy shall be sent by another of the foregoing means.

B. All notices shall be addressed by a party to the other party as indicated below. Either party may change its address from time to time upon prior written notice to the other specifying the effective date of the new address.

Owner
Attention: Olivia Minshew, City Manager
Address: City of Wauchula
126 South 7th Avenue

Wauchula, FL 33873

Contractor
Attention: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]
Address: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in triplicate on the Effective Date first stated above.

OWNER	**CONTRACTOR**
By _____	By _____
Date _____	Date _____
(Corporate Seal)	(Corporate Seal)
_____	_____
Attest	Attest

[END OF SECTION]

DIVISION 3:
TERMS AND CONDITIONS

SECTION 3.1: DEFINED TERMS

3.1.1 Definitions

A. Words and terms defined in this section shall have the same meaning throughout all parts of the Contract Documents. Where intended to convey the meaning consistent with that set forth in its definition, a defined word or term is marked by initial capitalization. DIVISION 6: TECHNICAL SPECIFICATIONS may define additional words and terms where necessary to clarify the Work. Unless otherwise stated in the Contract Documents, definitions set forth in DIVISION 6: TECHNICAL SPECIFICATIONS shall apply only within DIVISION 6: TECHNICAL SPECIFICATIONS.

1. Addendum/Addenda: A change or changes to the Solicitation issued in writing by the Owner and incorporated into the Solicitation and Contract Documents.

2. Administrative Work: Actions primarily performed in an office environment and associated with preparing to perform or administer the Work including, but not limited to, preparing Work schedules, obtaining bonds, executing Contracts, securing resources and other actions specified in the Bid Documents, or otherwise prudent to ensure a timely, safe and otherwise compliant start and performance of Field Work. Administrative Work is not performed at the Work Location.

3. Application for Payment: A document seeking payment to Contractor from Owner for all or a portion of the Work, in accordance with the Contract Documents, and including at a minimum the following items: the Contractor name and address, a description of the product(s) or service(s) rendered, a valid Owner PO number, the amount payable, the payee name and address, any associated forms and any other supporting documentation required by the Contract Documents.

4. Approved Schedule: The approved progress schedule for performance of the Work approved by the Owner or the Owner's Representative, as most recently amended.

5. Bid Documents/Bidding Documents: The documents titled Instructions to Bidders, the Invitation for Bid, the Bid Form, all sample forms to be included in the Bidder's Bid, the sample Contract Documents, including Technical Specifications and forms included to provide the Bidder with a complete understanding of the Work requirements, excluding any technical data or test results that are provided as additional information regarding Work Location conditions.

6. Bid or Proposal: The document, including all forms and information, describing the Bidder's offer and submitted in response to this Invitation for Bids. Bid and Proposal shall be considered synonymous for the purpose of this Contract.

7. Bid Price: The total dollar amount of the Bidder's offer including, but not limited to, all labor, materials, overheads, profits, other expense, and any and all other cost

items incurred by the Bidder in successfully performing the Work in accordance with the Contract Documents.

8. Bidder: The respondent to this Solicitation.

9. Bond: A financial mechanism to guarantee a contractual obligation.

10. Change Order: A written order issued by the Owner after execution of the Contract to the Contractor, as may be recommended by the Engineer, signed by the Owner and authorizing an addition, deletion, or revision of the Work, or an adjustment in the Contract Price or the Contract Time. An executed Change Order resolves all issues related to price and time for the work included in the Change Order.

11. Contract: The Agreement for the Work executed by the Owner and Contractor as included in these Contract Documents.

12. Contract Administrator: The individual assigned by Owner, who is an employee of the Owner, to have authority over the Contract, including the authority to negotiate all elements of the Contract with the Contractor, authorize Change Orders within the maximum amount awarded, terminate the Contract, seek remedies for nonperformance including termination, and otherwise act on behalf of the Owner in all matters regarding the Contract. The Contract Administrator may authorize an Engineer and/or other Owner's Representative in writing to make minor changes to Field Work with the intent of preventing Work disruption.

13. Contract Documents: Contract Documents means the documents set forth in the executed Agreement form.

14. Contract Price: The total amount payable to the Contractor under the Contract, as set forth in the Agreement form, as most recently amended.

15. Contract Time: The number of calendar days or the period of time from when the written Notice to Proceed is issued to the Contractor to the date Contractor has agreed to complete the Work, as stated in the Agreement form, as most recently amended.

16. Contractor: The legal person, firm, corporation or any other entity or business relationship with whom the Owner has executed the Contract. Where the word "Contractor" is used it shall also include permitted successors and assigns.

17. Contractor Representative: The individual responsible for representing the Contractor in all activities concerning the fulfillment and administration of the Contract.

18. Contractor Supervisor: The individual employed or contracted by the Contractor to manage the Work on a day-to-day basis and ensure the Work is performed according to the Contract. The Contractor Supervisor may be authorized by the Contractor

Representative to act on Contract matters. Such authorization shall be in writing and delivered to the Engineer and shall clearly state the limitations of any such authorization. In the event that the Contractor Supervisor and the Contractor Representative is the same person, the Contractor shall notify the Engineer of such situation.

19. Defect or Defective: When used to modify the "Work," whether in lowercase or uppercase, Work that fails to meet the requirements of any required test, inspection or approval, and any Work that meets the requirements of any test or approval, but nevertheless does not meet the requirements of the Contract Documents.

20. Engineer: The individual assigned by the Owner (either an employee or a third party), who is a licensed professional engineer in the State of Florida, to provide engineering, design review, and/or construction management including, but not limited to, overseeing and resolving engineering/design issues with the Engineer for the Work, and conveying the Owner's instructions to the Contractor.

    The Engineer's authority includes interpreting the technical portion of the Contract Documents, deciding on matters relating to the execution and progress of the Work and evaluating the Contractor's performance. The Engineer may stop the Work when deemed necessary by the Owner. The Engineer will receive and adjudicate any claim of ambiguity or error in the technical portion of the Contract Documents and shall reduce any determination to writing, and shall make a recommendation to the Owner. The Engineer is not a party to the Contract. The Engineer has no authority to approve changes to the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator.

21. Environmental Requirements: All laws, ordinances, statutes, codes, rules, regulations, agreements, judgments, orders, and decrees, now or hereafter enacted, promulgated, or amended, of the United States, the states, the counties, the cities, or any other political subdivisions in which the Work Location is located, and any other political subdivision, agency or instrumentality exercising jurisdiction over the Owner, the Work Location, or the use of the Work Location, relating to pollution, the protection or regulation of human health, natural resources, or the environment, or the emission, discharge, release or threatened release of pollutants, contaminants, chemicals, or industrial, toxic or hazardous substances or waste or Hazardous Materials (as defined in this Contract) into the environment (including, without limitation, ambient air, surface water, ground water or land or soil).

22. Equal Item: Item a Bidder chooses to offer in place of offering the brand name or manufacturer's item specified on the Bid Document when the Bid Document clearly states that the Bidder may offer such an item.

23. Ex Parte Communication: Any communication pertaining to this Solicitation between a Bidder or protester (or their respective employees, agents, or representatives, or

someone otherwise acting on behalf of Bidder) and the Owner (its members, employees, agents, and representatives other than the designated Owner representatives in the Solicitation), during the Solicitation period through the Contract Award, and/or from the initiation of a protest through Contract Award or through protest resolution.

24. Field Order: An order given by the Owner's Representative, in writing or orally, to direct progress of the Work. A Field Order may authorize only minor variations to the Work as needed to ensure progress, and does not authorize the Contractor to incur additional costs, change the Contract Price or Contract Time.

25. Field Work: Actions associated with meeting the requirements of the Contract other than Administrative Work. Field Work is primarily performed at the Work Location.

26. Final Acceptance: The Owner's written notice to the Contractor that all Work as specified in the Contract has been completed to the Owner's satisfaction. Approval or recognition of the Contractor meeting a milestone or interim step does not constitute Final Acceptance of the Work. Final Acceptance is only applicable to the entirety of Work as specified in the Contract. Final Acceptance does not in any way limit the Owner's rights under the Contract or applicable laws, rules and regulations.

27. Final Completion: The point in time after which the Owner has accepted the Work, in accordance with DIVISION 3: TERMS AND CONDITIONS and the Contractor has fulfilled all requirements of the Contract Documents.

28. Hazardous Materials: Any substance which is or contains (i) any "hazardous substance" as now or hereafter defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. '9601 et seq.) ("CERCLA") or any regulations promulgated under or pursuant to CERCLA; (ii) any "hazardous waste" as now or hereafter defined in the Resource Conservation and Recovery Act (42 U.S.C. '6901 et. seq.) ("RCRA") or regulations promulgated under or pursuant to RCRA; (iii) any substance regulated by the Toxic Substances Control Act (15 U.S.C. '2601 et seq.); (iv) gasoline, diesel fuel, or other petroleum hydrocarbons; (v) asbestos and asbestos containing materials, in any form, whether friable or non-friable; (vi) polychlorinated biphenyls; (vii) radon gas; and (viii) any additional substances or materials which are now or hereafter classified or considered to be hazardous or toxic under Environmental Requirements (as hereinafter defined) or the common law, or any other applicable laws relating to the Licensed Property. Hazardous Materials shall include, without limitation, any substance, the presence of which on the Licensed Property, (A) requires reporting, investigation or remediation under Environmental Requirements; (B) causes or threatens to cause a nuisance on the Licensed Property or adjacent property or poses or threatens to pose a hazard to the health or safety of persons on the Licensed Property or adjacent property; or (C) which, if it emanated or migrated from the Licensed Property, could constitute a trespass.

29. Holidays: The following days: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Eve, and Christmas Day.

30. Instructions to Bidders: The division of the Bid Documents labeled Instructions to Bidders.

31. Inspector: The individual(s) or company(ies) designated by the Contract Administrator to inspect and test the Contractor's performance and Contract compliance including materials, workmanship, safety, environmental compliance, project controls, administration and accounting, and other aspects of Contract compliance. The Inspector has no authority to approve changes to the Work, the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator. The Inspector may or may not be the same individual as the Engineer. The Contract Administrator may give the Engineer authority to appoint an Inspector.

32. Notice of Award: The issuance of a Notice of Award by the Owner to the successful Bidder notifying the Contractor that they have been authorized by the Owner to perform the work. A Notice of Award shall not be considered a Notice to Proceed.

33. Notice to Proceed: The written notice duly authorized and delivered by the Owner that authorizes the Contractor to begin Field Work. When indicated by the Owner, a PO may also serve as a Notice to Proceed.

34. Owner: The City of Wauchula.

35. Owner's Representative: The Engineer, Inspector, and other persons designated by the Contract Administrator as the Owner's Representative acting in a capacity related to the Work or Contract under the authority of the Contract Administrator.

36. Overtime: Work approved in writing by the Contract Administrator that is required to be performed beyond an employee's scheduled workday or work week, including Work performed on Holidays.

37. Payment Bond: The statutory Performance Bond contemplated by Section 255.05, *Florida Statutes*.

38. Performance Bond: The statutory Payment Bond contemplated by Section 255.05, *Florida Statutes*.

39. Preconstruction Meeting: A meeting conducted after Award and prior to the start of any Field Work between the Owner and the Contractor. The purpose of the meeting may include, but is not limited to orientation, schedule, certification and permitting, and other preparatory or Work execution details.

40. Purchase Order (PO): A Work authorization document issued by the Owner with the words "Purchase Order" clearly marked across the top, a PO number used for reference shown on the front, a description of the Work or a listing of the applicable Contract Documents, an authorized Owner signature and stating the amount of lawfully authorized funds.

41. Quality Assurance: Actions that the Owner takes to assess the Contractor's performance under the Contract.

42. Quality Control: Actions that the Contractor takes to ensure it successfully completes the Work in full accordance with the Contract Documents.

43. Resident Project Representative (RPR): An employee or agent of the Engineer at the Work Location, acting as directed by and under the Engineer. The RPR's authority for this Contract is set forth in DIVISION 3: TERMS AND CONDITIONS.

44. Shop Drawings: Drawings, electronic and hard copy, that detail the fabrication, erection, layout and setting drawings; manufacturer's standard drawings; schedules; descriptive literature, catalogs and brochures; performance and test data; wiring and control diagrams; all other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and method of construction as may be required to show the Engineer that the proposed materials, equipment or systems and the position thereof are in compliance with the requirements of the Contract Documents.

45. Site: The Work Location.

46. Solicitation: The Invitation for Bids (which may be electronic) issued by the Owner, or by a third-party on behalf of the Owner, to solicit Bids or Proposals from Bidders that includes the Bid Documents.

47. Specifications: The provisions contained in the Technical Specifications.

48. Standard of Care: The standards of skill and care ordinarily followed by contractors performing similar services for a project of similar scope and complexity in the same geographical area of the Work during the time in which the Work is performed.

49. Subcontractor: A provider of services or materials performing Work under contract for the Contractor.

50. Substantial Completion: The time when the Owner determines that the Work (or a specified part thereof) is sufficiently complete to be utilized for the purposes for which it is intended or ready for the Owner or other contractors to perform subsequent portions of the Work as stated in the Contract Documents. Recognition of the Work as Substantially Complete, as evidenced by issuance of a Certificate of

Substantial Completion, does not represent the Owner's Final Acceptance of the Work.

51. Term: The period of time during which the Contract is in force, from formal Notice of Award to Final Completion, or termination. In some cases, and as expressly stated, some of the Contract requirements may extend beyond the Term of the Contract.

52. Technical Specifications: The division of the Contract Documents collectively labeled as the Technical Specifications, including any exhibits and attachments thereto. Technical Specifications have been prepared by the Owner or a third-party.

53. Unit Prices: The Bidder's charges, rounded to the nearest cent, to the Owner for the performance of each respective unit of Work as defined on the Bid Form for all items required for successfully performing the Work through Final Acceptance.

54. Work: Work includes the scope set forth in the Contract Documents together with all other additional necessities that are not specifically recited in the Contract, but can be reasonably inferred as necessary to complete all obligations and fully satisfy the intent of the Contract.

55. Work Change Directive: Written authorization recommended by the Engineer and signed by the Owner and issued to the Contractor after the Contract Effective Date recommending an addition, deletion or revision in the Work. A Work Change Directive shall not change the Contract Price or Contract Time, but shall be evidence that the parties expect the change ordered or documented to be incorporated into a subsequent Change Order.

56. Work Location: The place or places where the Work is performed, excluding the properties of the Contractor and/or the Subcontractor(s).

SECTION 3.2: PRELIMINARY MATTERS

3.2.1 Payment Bond and Performance Bond

A. Within five (5) business days of receipt of Contract Documents, the Contractor shall furnish a Payment Bond and a Performance Bond in an amount equal to one-hundred percent (100%) of the amount of the Contract Price, made out to the Owner in forms and formats approved by the Owner, as security for the faithful performance of the Work of Contract, in accordance with Section 255.05, *Florida Statutes*. In no case shall the date on the bonds form be prior to that of the executed Contract. The surety must be authorized and licensed to transact business in Florida.

B. A fully executed Payment Bond and Performance Bond must be recorded with the Clerk of Hardee County Court and delivered to the Owner before Work may commence. If the Contractor fails or refuses to furnish or record the required bonds, the Owner will retain the Contractor's Bid Security as liquidated damages.

3.2.2 Liquidated Damages

A. If the Contractor fails to Substantially Complete the Work on or before the substantial completion date set forth in the Contract Documents, the Contractor shall pay the Owner the sum of $500.00 per day for each and every calendar day, including Sundays and Holidays, starting on the contracted substantial completion date and continuing until the date that the Work is Substantially Completed.

B. Following Substantial Completion, if the Contractor fails to complete any remaining Work within the Contract Time, the Contractor shall pay the Owner $500.00 per day for each and every calendar day, including Sundays and Holidays, starting on the contracted final completion date and continuing until the date that the Work is completed.

C. The Contractor understands and agrees that said daily sum is to be paid not as a penalty, but as compensation to the Owner as fixed and reasonable liquidated damages for losses that the Owner will suffer because of such default, whether through increased administrative and engineering costs, interference with the Owner's normal operations, other tangible and intangible costs, or otherwise, which costs are otherwise impossible or impractical to measure or ascertain with any reasonable specificity.

D. Liquidated damages may, at the Owner's sole discretion, be deducted from any monies held by the Owner that are otherwise payable to Contractor.

E. The Contractor's responsibility for liquidated damages shall in no way relieve the Contractor of any other obligations under the Contract.

3.2.3 Preconstruction and Progress Meetings

A. Before starting field work, a preconstruction meeting will be held to: review the work; to review the work schedule; to establish procedures for submitting items including but not limited to applications for payment, the schedule of submittals, approving the applications for payment, and making payments; and, to establish a working relationship between the Owner and the Contractor.

B. The Preconstruction Meeting shall be attended by, but not limited to, the Owner, the Engineer, the Contractor Representative and the Contractor Supervisor. The Contract Administrator will notify the Contractor in writing of the meeting time and location at least two (2) days prior to the meeting date.

C. Construction progress meetings will be held at a frequency determined by the Owner, but shall not be more often than once per week. Such meeting(s) shall be attended by, but not limited to, the Owner, the Engineer, and the Contractor's Supervisor.

3.2.4 Contractor Review of Project Requirements

A. The Contractor shall review the Work requirements and specifications prior to commencing Work. The Contractor shall immediately notify the Engineer in writing of any conflict with applicable law, or any error, inconsistency or omission it may discover. The Owner will promptly review the alleged conflicts, errors, inconsistencies or omissions, and issue a Change Order or Purchase Order, as appropriate if the Owner is in agreement with the alleged conflict, and issue revised specifications. Any Work the Contractor performs prior to receipt of approved Change Order or Purchase Order will be at the Contractor's sole risk and will not be reimbursed.

B. The Contractor agrees that it will provide sufficient personnel to perform the Work and that it will perform the Work in a manner consistent with the Standard of Care set forth above and with the Approved Schedule. The Owner shall not be responsible for any delays caused by the Contractor’s failure to adequately staff the Work.

3.2.5 Contractor's Documents at the Work Location

A. The Contractor shall maintain at the Work Location for the Owner one record copy of all Contract Documents in good order and marked currently to record all Addenda and changes made during the Contract Term. The Contractor shall include copies of all Change Orders, Work Change Directives, Field Orders, and other written clarifications or interpretations with these record documents. These shall be available to the Owner’s Representatives and shall be delivered to the Engineer upon completion of the Work or at the request of the Engineer. The Owner and the Owner’s Representatives may use such documents in reviewing the Contractor’s final Application for Payment.

B. The Contractor shall also maintain detailed records of the Work for its own files. The Contractor shall make these records available to the Owner for inspection upon request. The Contractor shall maintain such records for three years after the final completion date.

3.2.6 Contractor's Field Office

A. The Contractor shall provide its own office facilities at the Work Location, as required. Unless specifically listed herein, the Owner provides no Work Location facilities or Work Location area for the Contractor facilities of any kind such as field office and material storage. If the Contractor establishes a Work Location-based office, the Contractor shall provide and maintain adequate telephone facilities at this office during the full Term of the Contract. If the Contractor has a local business office, this office may serve as a Work Location office for this Contract, but the Contractor must maintain an operational cellular phone at the Work Location while performing Work.

3.2.7 Commercial Activities on the Work Location

A. The Contractor shall not establish any commercial activities, or issue concessions or permits of any kind to third parties to establish commercial activities on lands owned or controlled by the Owner, or within the boundaries of the Work Location. The Contractor shall not allow its employees to engage in any commercial activities on the Work Location.

3.2.8 Compliance with Referenced Specifications

A. All Work, materials, systems or operations specified by reference to standard trade specifications or to manufacturer's published specifications shall comply with the requirements of the referenced specifications, except as modified by the requirements of this Contract. The referenced specification used shall be the latest published edition that is in effect on the effective date of this Contract unless a particular edition is specified. In case of a conflict, the specifications that contain the more stringent requirements will govern.

3.2.9 Licenses

A. The Contractor shall comply with all licensing and/or certification requirements pursuant to applicable laws, rules and regulations. The Contractor shall secure all licenses as required for the performance of the Work and shall pay all fees associated with securing them. The Contractor shall produce written evidence of licenses and other certifications immediately upon request from the Owner.

B. The Contractor shall ensure that any subcontractors or subconsultants retained to provide labor, services, or material for the Work are fully licensed and certified, as applicable.

3.2.10 Limitation of Accuracy of Informational Materials

A. For all drawings, test results, inspections, and other informational materials included as part of the Contract Documents, the Contractor understands and agrees that any existing facilities shown, including underground, overhead, and surface structures, and other delineations, and any other informational items provided as part of the Contract Documents are for reference only and are not to be used by the Contractor as the only indication of Work conditions.

B. Unless otherwise stated, the data furnished by the Owner or the Engineer to the Contractor, or by the Contractor to the Owner or the Engineer, that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user’s sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

3.2.11 Permits

A. The Contractor shall secure, maintain, post as required, and pay for all building, plumbing, electrical, right-of-way, parking, roadway, railroad, shipping, freight, hazardous materials, and all other permits required for performance of the Work in full compliance with all applicable laws, rules and regulations. The Contractor shall perform all actions necessary to identify where permits are to be obtained and properly file for the permits.

B. The Contractor shall comply with all conditions of permits issued for the Work, either directly or indirectly, issued by federal, state, or local governmental agencies, which are hereby incorporated as part of these Contract Documents. The Contractor shall be solely responsible for resolving any issues and bearing all expenses including any damages suffered by the Owner that result from a finding of noncompliance during performance of the Work by any of the respective regulatory agencies including, but not limited to, all costs for delays, litigation, fines, fees of any kind, and other costs.

3.2.12 Work Information

A. In the event the Contractor requires additional information regarding the scope, technical specifications, Work Locations, personnel requirements, or other information pertinent to the Work or Contract, the Contractor shall request such information or clarifications from the Engineer in writing. Within the bounds of the Engineer's authority, the Engineer may provide the requested information to the Contractor.

3.2.13 Engineer’s RPR Status During Construction

A. The RPR shall have the responsibilities set forth herein for this Contract.

B. Review the progress schedule, schedule of Shop Drawings, and Sample Submittals and Schedule of Values prepared by the Contractor and consult with the Engineer concerning acceptability.

C. Attend conferences and meetings with the Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings, and prepare and circulate copies of minutes thereof.

D. Serve as the Engineer’s liaison with the Contractor, working principally through the Contractor’s authorized representative, assist in providing information regarding the intent of the Contract Documents. Assist the Engineer in serving as the Owner’s liaison with the Contractor when the Contractor’s operations affect the Owner’s on-site operations. Assist in obtaining additional details or information from the Owner, when required for proper execution of the Work.

E. Report to the Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to the Contractor clarifications and interpretations issued by the Engineer.

F. Record the date of receipt of Samples and approved Shop Drawings. Receive Samples which are furnished at the Site by the Contractor. Notify the Engineer of availability of Samples for examination. Notify the Engineer and the Owner if work is begun without reviewed shop drawings.

G. Consider and evaluate the Contractor's suggestions for modifications in the Drawings or Specifications and report such suggestions together with RPR's recommendations to the Engineer. Transmit in writing to the Contractor decisions as issued by Engineer.

H. Review of Work and Defective Work:

1. Conduct on–site observations of the Contractor's work in progress to assist the Engineer in determining if the Work is, in general, proceeding in accordance with the Contract Documents.

2. Report to the Engineer whenever RPR believes that any part of the Contractor's work does not conform to the Contract Documents or will imperil the integrity of the Work as indicated in the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; advise the Engineer of that part of work in progress that RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval.

I. Inspections, Tests and System Startups:

1. Verify that tests, equipment and system start-ups and operating and maintenance training are conducted in the presence of appropriate the Owner's personnel and that the Contractor maintains adequate records thereof.

2. Observe, record, and report to the Engineer appropriate details relative to the test procedures and system start-ups.

J. Record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of all of the Contractors, Subcontractors and materials and equipment Suppliers. Maintain records for use in preparing Work documentation.

K. Reports:

1. Furnish to the Engineer periodic reports as required of progress of the Work and of the Contractor's compliance with the Progress Schedule and Schedule of Shop Drawings and Sample Submittals.

2. Draft and recommend to the Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from the Contractor.

3. Immediately notify the Engineer of the occurrence of any Site accidents, emergency, acts of God endangering the Work, damage to property, or discovery of Hazardous Materials.

L. Review Applications for Payment with the Contractor for compliance with the established procedure for their submission and forward with recommendations to the Engineer, noting particularity the relationship of the payment requested to the Schedule of Values, Work completed and materials and equipment delivered at the Site but not incorporated in the Work.

M. During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Specifications to be assembled and furnished by the Contactor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to the Engineer for review and forwarding to the Owner prior to payment for that part of Work.

N. Completion:

1. Participate in a Substantial Completion inspection, assist in the determination of Substantial Completion and the preparation of list of items to be completed or corrected.

2. Participate in a final inspection in the company of the Engineer, the Owner and the Contractor and prepare a final list of items to be completed and deficiencies remedied.

3. Observe whether all items on final list have been completed or corrected and make recommendations to the Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

O. Limitations of the RPR's Authority: The RPR shall not:

1. Authorize any deviation from the Contract Documents or substitute of material or equipment (including "or-equal" items).

2. Exceed limitations of the Engineer's authority as set forth in the Contract Documents.

3. Undertake any of the responsibilities of the Contractor, the Subcontractors, the Suppliers or the Contractor's Superintendent.

4. Advise on, issue directions regarding, or assume control over safety practices precautions, and programs in connection with the activities or operations of the Owner or the Contractor.

5. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by the Engineer.

6. Accept Shop Drawings or Sample submittals from anyone other than the Contractor.

7. Authorize the Owner to occupy the Project in whole or in part.

8. Advise on issue directions, or assume control over means, methods, techniques, sequences, or procedures for the Contractor's Work.

3.2.14 Conflict of Interest

A. No member, officer or employee of the City during his/her tenure or for one (1) year after shall have any interest, direct or indirect, in this contract or proceeds thereof. The Contractor shall also include this statement in all subcontracts for this work.

SECTION 3.3: SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE

3.3.1 Acceptance of Work - After Receipt, Inspection, Usage and Testing

A. The Contract Administrator will make the determination when Work is completed and there is Final Acceptance by the Owner, with consideration to the Engineer's and the Inspector's recommendations.

B. Final Acceptance will be made by the Owner only in writing, and after adequate time to ensure the Work is performed in accordance with Contract Documents in accordance with Section 255.077, *Florida Statutes*. The Owner will reject any items delivered by the Contractor that are not in accordance with the Contract, and shall not be deemed to have accepted any items until the Owner has had reasonable time to inspect them following delivery or, if later, within a reasonable time after any latent defects in the work have become apparent.

C. The Owner may partially accept the Work. If the Owner elects to accept nonconforming items, it may, in addition to other remedies, be entitled to deduct a reasonable amount from the price as compensation for the nonconformity. Any Final Acceptance by the Owner, even if nonconditional, shall not be deemed a waiver, or settlement or acceptance of any Defect.

3.3.2 Substantial Completion

A. The Contractor shall notify the Owner in writing when a portion of the Work is ready for Substantial Completion and can be utilized for the purposes for which it was intended. The Contractor shall identify any deficiencies in the Work. Owner will inspect the Work and will give the Contractor written notice of either acceptance of that portion of the Work or additional deficiencies. The Contractor shall correct all deficiencies prior to Substantial Completion of the Work.

B. Whenever any portion of the Work is substantially complete and can be utilized for the purpose for which it was intended, the Owner may use it. Such use shall not be held in any way as a Final Acceptance of the Work or as a waiver of any provisions of the Contract.

C. Upon determination that the Work meets the requirements for Substantial Completion, the Owner will issue a Certificate of Substantial Completion.

SECTION 3.4: PRICE & PAYMENTS

3.4.1 Application for Payment and Payment Terms

A. The Contractor shall submit to the Engineer or the Engineer's RPR all Applications for Payment using the prescribed forms included in the Contract Documents and in accordance with the payment method agreed upon in these Contract Documents. The Owner will pay the Contractor the amount requested less any authorized deductions or retainage set forth in the Contract Documents within thirty (30) days after receipt of an acceptable Application for Payment from the Contractor subject to the provisions stated below.

B. The Owner may reject any Application for Payment within twenty (20) calendar days after receipt. The Owner will return the Application for Payment to the Contractor stating the reasons for rejection. Upon receipt of an acceptable revised Application for Payment, the Owner will pay the Contractor the revised amount within ten (10) calendar days.

C. The Owner may withhold payment if the Owner reasonably believes the Contractor is in violation of any conditions or terms of the Contract Documents. Reasons for withholding payment to the Contractor include, but are not limited to, a reasonable belief by the Owner that it may suffer damages as a result of potential or actual claims attributable to the Contractor; inability of the Contractor to complete the Work in a timely manner; or any failure of the Contractor to perform its obligations hereunder. If the Owner reasonably believes Contractor is in violation of any conditions or terms of the Contract Documents and the Owner wishes to withhold payment from the Contractor, the Owner shall (i) provide the Contractor at least ten (10) days written notice of the Owner's intent to withhold such amount which states the basis for such withholding; and (ii) afford the Contractor an opportunity to cure or otherwise address the Commission's concerns.

D. The Application for Payment may be subject to the review of the Owner's Representative for purposes of determining compliance with the DIVISION 4: SUPPLEMENTAL CONDITIONS.

3.4.2 Retainage

A. Pursuant to Section 255.078, *Florida Statutes*, as additional security for the proper performance of the Work, the Owner may deduct up to five percent (5%) retainage from the amount stipulated in the Invoice or Application for Payment and accepted by the Owner as eligible for payment.

B. In the case of early termination of the Contract, all payments made by the Owner against the Contract Price prior to notice of termination shall be credited to the amount, if any, due the Contractor. If the parties determine that the sum of all previous payments and credits exceeds the sum due the Contractor, the Contractor shall refund the excess amount to the Owner within ten (10) calendar days of determination or written notice.

3.4.3 Payment Method - Progress Payments and Schedule of Values

A. For the purposes of this Contract, the Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS.

3.4.4 Final Application for Payment

A. After the Contractor has, in the opinion of the Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, marked-up as-built record documents and other documents, the Contractor shall complete and submit to the Owner the final Application for Payment with consent of surety for final payment as notice that the Work, including the correction of all deficiencies, is complete. By submitting the final Application for Payment, the Contractor certifies the following:

1. That the Work has been satisfactorily completed;

2. That no liens have attached against the property and improvements of the Owner;

3. That no notice of intention to claim liens are outstanding;

4. That no suits are pending by reason of the Work;

5. That all workers' compensation claims known to the Contractor have been reported to the Owner;

6. That the surety provides a release; and

7. That no public liability claims are pending.

B. Within ten (10) calendar days of receipt of the Contractor’s final Application for Payment, the Engineer shall review the final Application for Payment and make a recommendation to the Owner. The Owner shall make final payment to the Contractor in accordance with the Application for Payment provisions of the Contract.

3.4.5 Prompt Payment to Subcontractors and Suppliers

A. When the Contractor receives payment from the Owner for labor, services or materials furnished by Subcontractors and Suppliers that are hired by the Contractor, the Contractor shall remit payment due (less proper retainage) to those Subcontractors and Suppliers within fifteen (15) calendar days after the Contractor's receipt of payment from the Owner and obtain a Release of Lien for each payment made. Nothing herein shall prohibit the Contractor from disputing, pursuant to the terms hereof, all or any portion of a payment alleged to be due to its Subcontractors and Suppliers. In the event of such dispute, the Contractor may withhold the disputed portion of any such payment only after the Contractor has provided written notice to the Owner and to the Subcontractor and Supplier whose payment is in dispute, stating the amount in dispute and specifically describing the actions required to cure the dispute. The Contractor shall deliver such notice to the Owner and to the said Subcontractor or Supplier within ten (10) calendar days following the Contractor's receipt of payment from the Owner. The Contractor shall pay all undisputed amounts due within the time frames specified herein.

B. The Contractor shall submit a Release of Lien for the prior month’s payment included in any Application for Payment.

C. The prompt payment requirements herein shall, in no way, create any contractual relationship or obligation between the Owner and any Subcontractor, Supplier, or any third-party, nor create any Owner liability for the Contractor's failure to make timely payments as required. The Contractor's failure to comply with the prompt payment requirements, however, shall constitute a material breach of its contractual obligations to the Owner.

3.4.6 Taxes

A. The Contractor shall include the cost of all applicable State and Local Sales Taxes in the submitted Bid Price. The Owner reserves the right to directly purchase any materials or equipment to reduce project costs due to State and Local Sales Taxes. A deductive Change Order will be drafted to remove any Owner Direct Purchases from the Contract.

B. The Contractor shall be responsible for the payment of any applicable State and Local taxes relating to the purchase of equipment and materials required for the completion of this project.

3.4.7 Allowances

A. When the Contract Documents indicate that the Owner has provided the Contractor with an allowance for specified portions of the Work, the Contractor shall provide such Work in a manner acceptable to the Owner.

B. Allowance items shall include all costs to the Contractor (less any applicable trade discounts), including all applicable taxes, costs for unloading and handling materials and equipment at the Site, labor, installation, overload, profit, and other expenses set forth in the Contract Documents as part of the allowances.

SECTION 3.5: INSURANCE & INDEMNITIES

3.5.1 Environmental Indemnity

A. The Contractor shall hold harmless, indemnify, and defend the Owner and the Engineer, including without limitation, its officers, directors, members, representatives, affiliates, agents and employees, successors and assigns (the "Indemnified Parties") and will reimburse the Indemnified Parties from and against any and all claims, suits, demands, judgments, losses, costs, fines, penalties, damages, liabilities and expenses (including all costs of cleanup, containment or other remediation, and all costs for investigation and defense thereof including, but not limited to, court costs, reasonable expert witness fees and attorney fees) arising from or in connection with (a) the Contractor's, including, but not limited to, its agents, affiliates or assigns ("Parties"), actions or activities that result in a violation of any environmental law, ordinance, rule, or regulation or that leads to an environmental claim or citation or to damages due to the Contractor's or other Parties' activities, (b) any environmental, health and safety liabilities arising out of or relating to the operation or other activities performed in connection with this contract by the Contractor or any Party at any time on or after the effective date of the contract, or (c) any bodily injury (including illness, disability and death, regardless of when any such bodily injury occurred, was incurred or manifested itself), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any person in any way arising from or allegedly arising from any hazardous activity conducted by the Contractor or any Party. The Owner will be entitled to control any remedial action or any proceeding relating to an environmental claim. This indemnification agreement is separate and apart from, and is in no way limited by, any insurance provided pursuant to this Contract or otherwise. This section relating to indemnification shall survive the Term of this Contract, and any holdover and/or Contract extensions thereto, whether such Term expires naturally by the passage of time or is terminated earlier pursuant to the provisions of this Contract.

3.5.2 Indemnification

A. Contractor shall, to the fullest extent permitted by law, indemnify, defend, and hold harmless the Owner from claims, suits, liability, loss, expense, or damages, including all attorneys' fees and costs, arising from the negligent acts or omissions by, the willful misconduct of, or the failure to comply with applicable laws by Contractor or those for whom the Contractor is responsible in the performance of this Agreement. The indemnification required under this Agreement will not be limited in any way by the limits, terms, or conditions of any insurance policy.

B. Contractor, for itself and on behalf of its agents, employees, subcontractors, and subconsultants, shall to the fullest extent permitted by law indemnify, and hold the Owner harmless from and against any and all losses, expenses, claims, demands, and causes of action, including attorneys' fees and costs, asserted against the Owner by any person (including without limitation, Contractor's employees, Contractor's

subcontractors and subconsultants, and employees of such subcontractors and subconsultants, for injury to persons, including death, or for loss of or damage to property or failure of the completed work to perform as required by this Agreement, to the extent arising out of the negligent acts or omissions of Contractor or any entity for which it is responsible in performing the Work, or the violation by Contractor or any entity for which it is responsible of any law, regulation, ordinance, code or standard applicable to the Work. The indemnification required under this Agreement shall not be limited in any way by the limits, terms, or conditions of any insurance policy.

C. For purposes of the Indemnification provisions of this Article 3.5.2, the term "Owner" shall mean the Owner as a body politic and corporate and shall include its governing commission, officers, employees, agents, successors and assigns. The provisions of Article 3.5.2 shall survive the completion or termination of this Agreement

D. To the extent provided by law, Subrecipient shall indemnify, defend, and hold harmless the Department against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of Subrecipient, or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by Subrecipient hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes. The foregoing indemnification shall not constitute a waiver of the Department's or Subrecipient's sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28, nor shall the same be construed to constitute agreement by Subrecipient to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or for the acts of third parties. Nothing herein shall be construed as consent by Subrecipient to be sued by third parties in any manner arising out of this Agreement. This indemnification shall survive the termination of this Agreement.

a. Subrecipient agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity" for the purposes of the below indemnification) who perform work in connection with this Agreement:
    a. "To the extent provided by law, [ENTITY] shall indemnify, defend, and hold harmless the [SUBRECIPIENT] and the State of Florida, Department of Transportation, including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of ,relating to, or resulting from negligent or wrongful act(s) of [ENTITY], or any of its officers, agents, or employees, acting within the scope of their office of employment, in connection with the rights granted to or exercised by [ENTITY].
    b. The foreign indemnification shall not constitute a waiver of the Department's or [SUBRECIPIENT]'s sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or third parties. This indemnification shall survive the termination of this Agreement.

3.5.3 Insurance Requirements

A. For purposes of this Article 3.5.3, the term "Owner" shall mean the Owner as a body politic and corporate and shall include its governing commission, officers, employees, agents, successors and assigns. Before any work commences, and for four years beyond Final Acceptance of the Work, and without limiting its liability under the Contract, the Contractor, without in any way altering their liability, obtain, pay for, and maintain insurance for the coverages and amounts of coverage not less than those set forth below, and shall provide the Owner with a Certificate of Insurance and an opportunity to inspect a certified copy of each policy applicable to this Agreement. All policies required under this section must be an "Occurrence" form. The policies shall contain a waiver of subrogation in favor of the Owner. The Contractor's self-insured retention or deductible per line of coverage shall not exceed $25,000.00 without the permission of the Owner.

Schedule	**Amount**
<u>Workers' Compensation</u>	
Florida Statutory Coverage and Employer's Liability (including appropriate Federal Acts)	Statutory Limits (Workers' Compensation) As required by law (Employer's Liability)
<u>Contractor's General Liability</u>	
Completed Operations and Products Liability Property damage and bodily injury	$1,000,000/occurrence, $2,000,000 annual aggregate
<u>Personal Injury Liability</u>	
Property Damage Liability insurance will provide Explosion, Collapse and Underground Hazards (XCU Coverage) as appropriate	
<u>Automobile Liability</u>	
Bodily Injury Property Damage	$200,000/person, $300,000/occurrence $200,000/occurrence
<u>Contractual Liability</u>	
Bodily Injury Property Damage	$500,000/accident $1,000,000 annual aggregate
<u>Builder's Risk Insurance</u>	
Amount to be determined by Owner	

B. The Contractor's General Liability policies shall be effective for four (4) years after the Work is complete. The above Indemnification provision is separate and is not limited by the type of insurance or insurance amounts stated above.

C. The Contractor shall specify the Owner and the Engineer as additional insureds for all coverage except Workers' Compensation and Employer's Liability. The Certificate of Insurance must name as an additional insured the Owner and the Engineer, excluding worker's compensation and professional liability; must provide that such insurance is primary to any other insurance available to the additional insureds with respect to claims covered under the policy; and must provide that such insurance coverage applies separately to each insured against whom claims are made or suit is brought; but the inclusion of more than one insured shall not operate to increase the insurer's limit of liability.

D. All insurance coverage shall be written with an insurer having an A.M. Best Rating of a least the "A" category and size category of VIII. Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to the Owner. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to the Owner for approval.

E. The Contractor's and its Subcontractors' Certificates of Insurance shall be mailed to the Owner at City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873. To the extent necessary, the Contractor shall thereafter provide the Owner an annual Certificate of Insurance satisfactory to the Owner to evidence such coverage. Such Certificates of Insurance will provide that there shall be no termination, non-renewal, modification or expiration of such coverage without thirty (30) days prior written notice to the Owner.

F. The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until thirty (30) days after receipt of written notice by the Owner.

G. If there is any failure by the Contractor to comply with the provisions of this section, the Owner may, at its option, on notice to the Contractor, suspend the work for cause until there is full compliance.

H. Owner may, at its sole discretion, purchase such insurance at the Contractor's expense provided that the Owner shall have no obligation to do so and if the Owner shall do so, it shall not relieve the Contractor of its obligation to obtain insurance.

I. Any subcontractors of the Contractor shall procure and maintain the insurance required of the Contractor hereunder during the life of the subcontract. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by the Contractor.

J. The subrecipient shall, or cause its contractor or consultant to carry and keep in force, during the term of this Agreement, a general liability insurance policy or policies with a company or companies authorized to do business in Florida, affording public liability insurance with combined bodily injury limits of at least $200,000 per person and $300,000 each occurrence, and property damage insurance of at least $200,000 each occurrence, for the services to be rendered in accordance with this Agreement. The Subrecipient shall also, or cause its contractor or consultant to carry and keep in force Workers'

Compensation Insurance as required by the State of Florida under the Workers' Compensation Law. With respect to any general liability insurance policy required pursuant to this Agreement, all such policies shall be issued by companies licensed to do business in the State of Florida. The Subrecipient shall provide to the Department certificates showing the required coverage to be in effect with endorsements showing the Department to be an additional insured prior to commencing any work under this Agreement. Policies that include Self Insured Retention will not be accepted. The certificates and policies shall provide that in the event of any material change in or cancellation of the policies reflecting the required coverage, thirty days advance notice shall be given to the Department or as provided in accordance with Florida law.

3.5.4 Title and Risk of Loss

A. Ownership, risks of damage to or loss of the Work shall pass to the Owner upon Final Acceptance of the work. The Contractor shall assume all risk of loss or damage to the Work while items are in transit and/or in the Contractor's custody until such time that the Owner issues written notice of Final Acceptance of the work.

SECTION 3.6: GENERAL PERFORMANCE OF WORK

3.6.1 Care of Property Owners

A. The Contractor agrees to provide excellent customer service throughout the execution of the Work during both scheduled Work hours and Overtime in the manner, as a minimum, as set forth below:
   1. The Contractor shall notify the affected property owners prior to any planned outages, line flushing, valve simulations and driveway construction. The notification will be produced by the Contractor and approved by the Owner's Representative.

   2. Within one (1) business day of receiving a concern from a property owner regarding the Work, the Contractor shall notify the Engineer in writing of each customer concern reported directly to the Contractor's personnel. Such notification shall include, as a minimum: the Contractor's name, date and time the concern was communicated to the Contractor, the name, address and phone numbers for the affected party, the nature of their concern and any action that was taken or any action currently underway to resolve the concern.

3.6.2 Workmanship

A. In addition to performing its Work in accordance with the Standard of Care, the Contractor shall perform all Work in a safe, workmanlike and professional manner, and so as to render a neat and uniform appearance. The Contractor shall handle all material in such a way as to preserve its finish and protective coatings from damage. General arrangement shall be satisfactory to the Engineer.

3.6.3 Work Location Cleanliness

A. The Contractor shall, at all times, keep the Work Location free from an accumulation of waste materials or rubbish caused by its operations. At the completion of the Work, the Contractor shall remove all waste materials and any rubbish from and about the project, as well as any tools, construction equipment, machinery and surplus materials, in accordance with applicable laws, rules and regulations. If the Contractor fails to clean up at the completion of the Work, the Owner may do so as provided elsewhere in the Contract and charge the cost thereof to the Contractor.

3.6.4 Surveying

A. Unless specifically stated in the Contract Documents as being provided by the Owner, the Contractor shall be responsible for all surveying necessary to commence and perform this Work. The Contractor shall employ a land surveyor registered in the State of Florida to reference and restore all property corners and/or monuments that may have been disturbed and to ensure accurate horizontal and vertical control during the construction of this project and for staking locations for new structures. Height and spacing of stakes are to be as specified elsewhere herein or as directed by the Engineer.

B. All Work shall be done to the lines, grades and elevations shown on the drawings. Any Work improperly located may be ordered removed and replaced at the Contractor's expense. The Contractor shall be responsible for making its own determination of water table variations and shall not assume that any water levels shown by the aforesaid boring data will necessarily be maintained at the level indicated. The Contractor shall investigate the conditions above or below the surface of the ground as it may deem necessary for the proper and timely performance of its Work including, but not limited to, the making of borings.

SECTION 3.7: SCHEDULES

3.7.1 Preliminary Schedules

A. Within ten (10) calendar days following the Effective Date of the Agreement, the Contractor shall submit to the Engineer the following items:

1. Preliminary Progress Schedule stating days or dates for starting and completing the various stages of the Work in an orderly manner within the Contract Times, indicating any milestones specified in the Contract.

2. Preliminary Schedule of Submittals, showing a reasonable schedule for reviewing and processing required submittals

3. Preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and reasonably subdivides the Work into component parts in sufficient detail to serve as the basis for

progress payments during performance of the Work. Prices shall include all overhead and profit.

4. Preliminary Schedule of Progress Payments (Draw Schedule).

B. No later than ten (10) calendar days prior to the date for the submittal of the first Application for Payment, the Contractor and the Engineer shall meet to review the acceptability of the Progress Schedule, the Schedule of Submittals and the Schedule of Values. The Contractor shall have an additional ten (10) calendar days following such meeting to make any adjustments and to resubmit the schedules.

C. The Engineer's approval of the any of the Schedules shall not relieve the Contractor of its sole responsibility for the Progress Schedule, the sequence and scheduling of Work, and the progress of the Work.

D. No progress payments shall be made to the Contractor until the Engineer has approved the Schedules.

E. Upon reasonable written request from the Owner, the Contractor shall furnish to the Owner such evidence as the Owner may reasonably require relating to the Contractor's ability to fully perform the Work in the manner and within the time specified by this Agreement.

3.7.2 Work Days

A. The work schedule is established on the basis of working five (5) days per week, eight (8) hours per day. The Owner may require the Contractor to base its schedule on an accelerated Work Schedule or multiple shifts. The Contractor shall not schedule work on Holidays without obtaining prior written approval from the Owner.

B. The Contractor shall, at no additional cost to the Owner, increase or supplement its working force and equipment and perform the Work on an Overtime or multiple shift basis when directed by the Owner and upon notification that the Contractor is behind schedule. The Contractor shall submit a revised schedule in writing demonstrating the Contractor's schedule recovery plans.

C. The Contractor understands and agrees that the rate of progress set forth in the Approved Schedule already allows for ordinary delays incident to the Work. No extension of the Contract Time will be made for ordinary delays, inclement weather (except as set forth in Section 19, "Force Majeure"), or accidents, and the occurrence of such events will not relieve the Contractor from the requirement of meeting the Approved Schedule.

3.7.3 Changes to the Progress Schedule

A. The Contractor may submit proposed revisions to the Progress Schedule to the Engineer for review provided that they do not change the Contract Time, and the Engineer may adjust the Progress Schedule from time to time.

B. Proposed changes to the Progress Schedule that change the Contract Time will only be made in accordance with Section 14, “Changes to Work.” Adjustments to the Contract Time shall only be made via Change Order.

C. The Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS for additional information regarding Progress Schedules.

SECTION 3.8: MATERIALS, TOOLS & EQUIPMENT

3.8.1 Temporary Utilities

A. The Contractor shall furnish and install all temporary water, electricity and other utilities required to accomplish the Work. The Contractor shall obtain the water required for carrying out the Work from fire hydrants, existing water main connections, or new connections approved by the Owner. The Contractor shall install a back flow preventer and water meter assembly if construction water is necessary. Upon Substantial Completion of Work, the Contractor shall remove all evidence of temporary connections and lines.

B. Prior to initiating any construction Work, the Contractor shall coordinate and schedule the provision of temporary utility service required during construction and arrange for the permanent installation and connection of utilities for the completed Work.

3.8.2 Material Delivery Locations

A. The Contractor shall notify, in writing, the Engineer of all planned material delivery/receiving locations. Such notification shall be prior to initiation of shipment. The Engineer will provide the Contractor with specific written approval for each delivery/receipt location, which will not be unreasonably withheld.

3.8.3 Storage of Equipment

A. The Contractor shall be responsible for all storage of materials, equipment, vehicles, tools, and all other items associated with the Work. Such storage shall comply with applicable regulations appropriate for the items being stored to ensure suitable care for items and protection from theft, vandalism, or inappropriate use. The Contractor is solely responsible for the costs for such storage, unless otherwise indicated in the Contract Documents, and any costs associated with noncompliant storage including, but not limited to, loss and damage to items. In the event that the Owner directs the Contractor to stop the Work, costs associated with storing equipment or materials will be compensated in accordance with the provisions stated herein in Section 14, "Change in

Work." The Contractor shall ensure that the Engineer has access to Work-related storage on an as needed basis during regular Work Hours and Overtime.

3.8.4 Contractor Laydown Area

A. In the event the Contractor decides to utilize public or private property as a laydown area, the Contractor shall enter into a written agreement with the entity or individual who owns the property. The Owner shall have access to all laydown areas. Upon submission of the Contractor's first Invoice or application for payment to the Owner, the Contractor shall provide the Owner with a copy of such signed written agreement. The Contractor shall submit to the Owner a letter of release from the entity in connection with Contractor's final Application for Payment to the Owner.

3.8.5 Substitutions

A. Whenever materials or equipment are specified or described in the Contract by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required.

B. Materials or equipment of other suppliers may be accepted by the Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named.

C. The Contractor shall make written application to the Engineer for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified.

D. The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice the Contractor's completion of the Work within the Contract Time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other Contract directly with the Owner for Work on the Contract) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fees, royalties, permits or any other costs.

E. All variations of the proposed substitute from that specified shall be identified in the application and available maintenance, repair and replacement service shall be indicated.

F. The application shall also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other Companies affected by the resulting change, all of which shall be considered by the Engineer in evaluating the proposed substitute.

G. Requests for review of substitute items of material and equipment will not be accepted by the Engineer from anyone other than the Contractor.

H. The Engineer may require the Contractor to furnish, at the Contractor's expense, additional data about the proposed substitute.

I. If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract, the Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the Engineer, if the Contractor submits sufficient information to allow the Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract.

J. The Engineer will be allowed a reasonable time within which to evaluate each proposed substitute; such time shall not be deemed justification for an extension of the Contractor's time for completion of the Contract.

K. The Engineer will be the sole judge of acceptability, and no substitute shall be ordered, installed or utilized without the Engineer's prior written notice, which shall be evidenced by a Change Order.

L. The Owner may require reimbursement for the cost associated with the Engineer’s evaluation of substitutions.

M. The Owner may require the Contractor to furnish, at the Contractor's expense, special performance guarantee bonds or other surety with respect to any substitution.

3.8.6 Disposition of Salvage Material

A. All material to be removed from the Work Location, relocated or salvaged, shall be inspected by the Engineer immediately prior to removal, and the Engineer's decision as to the salvageability shall be final. Such material that can be salvaged, in the opinion of the Engineer, shall be stored at the Work Location on-site by the Contractor, as and where directed by the Engineer, or delivered to a location as directed. Under no circumstances may existing structures, plant or facilities be removed or demolished without obtaining prior written approval from the Contract Administrator.

3.8.7 Tools and Equipment

A. All tools and equipment used in the performance of the Work shall be used as intended by the manufacturer and in accordance with manufacturer operating manuals and industry practices, whichever is more stringent. The Contractor shall ensure that all tools and equipment used in the performance of the Work shall be of the size and quality suitable for safe and efficient performance of the Work. If the Contractor-provided tools and equipment do not meet these requirements, or if in the sole opinion of the Owner formed after considering relevant factors, the tools or equipment are inappropriate for performance of the Work, the Contractor agrees to remove the unacceptable tools and equipment and obtain tools and equipment the Owner considers suitable. Such

replacement shall be entirely at the Contractor's expense, and no change to Contract Time will be allowed.

B. The Contractor is responsible for furnishing the security of any and all tools and equipment required to perform the Work.

SECTION 3.9: SAFETY & SECURITY

3.9.1 Safety and Protection Precautions

A. The Contractor shall comply with all applicable federal, state and local laws, ordinances, all Owner procedures and policies, and orders of any public body having jurisdiction for the safety of persons or protection of property. The Contractor understands and agrees that violation of any provision of this clause is grounds for immediate termination of the Contract and the Contractor is responsible for all Owner damages associated with such termination.

B. The Contractor shall ensure that Subcontractors and their personnel have all the necessary personal protective equipment and training needed to perform the Work safely.

C. The Contractor understands and agrees that it is responsible for paying all costs associated with providing a safe work environment including, but not limited to, any costs associated with any Owner directed safety improvements. The Contractor further understands and agrees that it is solely responsible for the safety of personnel and property associated with the Work, and that any actions taken by the Owner or the Owner's Representatives to prevent harm to persons or damage to equipment does not, in any way, relieve the Contractor of this responsibility.

D. The Contractor's Representative, or alternatively, the Contractor's Supervisor, shall be designated as the Contractor's individual responsible for the prevention of accidents.

E. The Contractor shall notify the police and fire departments as to its Work Location in order to ensure prompt response in an emergency.

3.9.2 Emergency Events

A. In the event that a system-wide emergency arises during the Term of this Contract for which the Owner requires assistance from the Contractor including, but not limited to, severe storms, large-scale fires, floods, and terrorist attacks, the Contractor acknowledges the importance of Owner infrastructure and agrees to support, with all its resources, skills and capabilities, and the maximum extent possible, all restoration efforts of the Owner. The Owner shall notify the Contractor when an emergency event occurs and the Contractor agrees to mobilize its full resources immediately. In the event conditions are such that an emergency event is likely in progress, but the Contractor has not been notified by the Owner, the Contractor shall make all efforts to contact the Owner

to determine if and how it should respond. The Owner agrees to reimburse the Contractor for its actual costs incurred, plus overhead and profit, the total not exceeding twelve percent (12%), and any one-time expended cost incurred as a result of supporting the Owner during the emergency event.

3.9.3 Emergency Procedures

A. In emergencies affecting the safety of persons, the Work or property at the Work Location or any other area adjacent thereto, the Contractor, without special instructions or authorization from the Owner, is obligated to act to its best ability, to prevent threatened damage, injury or loss to the Work, any persons, or property. The Contractor shall give the Owner prompt written notice describing the emergency, its cause, actions taken, injuries and casualties, property damage, other damages, and impact on continued performance under this Contract.

3.9.4 Storm Preparedness

A. In the event of a Hurricane Warning, Tropical Storm Warning, or other large storm affecting the Work Location, the Contractor shall secure, or shall remove and store all equipment and materials at the Work Location including, but not limited to, cones, barricades, lights and signs. The Contractor shall begin taking such precautions as necessary to secure the Work Location upon official issuance of mandatory evacuation of the area of the Work Location and no later than twenty-four (24) hours prior to predicted arrival of tropical storm or hurricane force winds, or when notified by the Owner to do so. These activities are considered a regular part of the Work, regardless of the frequency they are required.

3.9.5 Weather Protection

A. The Contractor shall provide proper facilities, take all necessary precautions and assume the entire cost for protecting the Work against weather conditions and for handling all storm, flood and ground water, sewage, or other seepage, that may be encountered during the performance of the Contract. The Contractor shall provide for such contingencies and for carrying on the Work in freezing weather by methods that meet with the approval of the Engineer. If the Contractor fails to provide such protection, or in the event of an emergency, the Owner may provide such protection at the Contractor's expense.

3.9.6 Project Security

A. The Contractor shall provide, at its expense, on-site security personnel at any time the facility's perimeter is unsecured, including but not limited to, alarms disabled, fences or gates down, traffic flows that require gates to be opened repeatedly and/or for more than one hour of the work day. The Contractor shall schedule security personnel. Where existing lighting is disabled or otherwise impacted by the Work, the Contractor shall provide temporary lighting equal to or exceeding that which exists.

3.9.7 Protection of the Environment

A. The Contractor shall immediately notify the Owner of any Hazardous Materials encountered during the Work and shall immediately cease work in the affected area until further direction is received from the Owner.

B. The Contractor and its Subcontractors and Suppliers shall comply with all applicable laws, rules and regulations including, but not limited to, all Environmental Requirements.

C. Asbestos, Lead, or Toxic Mold may be present at the Work Location. The Contractor shall notify the Engineer immediately upon discovery of asbestos, lead, toxic mold. The Contractor shall not disturb or remove known or discovered asbestos, lead, or toxic mold unless directed by the Engineer.

D. Hazardous Materials:

1. The Contractor shall bear full responsibility including, but not limited to, payment and liability for the transportation, use and disposal of any Hazardous Materials under the Contractor's control during the performance of the Work. Disposal of Hazardous Materials should only be disposed of at Owner approved facilities. The Contractor shall provide the Owner with appropriate documentation showing proper disposal of its Hazardous Materials.

2. The Owner has identified and labeled equipment known to contain PCBs. The Owner will remove and transport any equipment so identified. The Contractor shall not remove or transport any equipment containing PCBs. The Contractor shall immediately notify the Owner of any questionable or unmarked equipment and the Owner will arrange for testing and identification.

E. Toxic Substances Introduced by the Contractor:

1. The Contractor shall notify the Engineer in writing of the type, quantity and disposal method of any toxic substance used during the performance of the Work. The Contractor shall be solely responsible for the use and disposal of any such toxic substances. The Contractor shall submit cleanup procedures to the Owner for review and written approval prior to the use of the toxic substance. In the event that a toxic substance escapes into the environment, the Contractor shall immediately notify the Engineer in writing of the occurrence and the actions taken. In the event that the Contractor encounters toxic substances in the course of construction, the Contractor shall immediately notify the Engineer verbally, with a written notification to follow. The Engineer shall arrange for disposal by the Owner.

2. The Contractor will be solely responsible for all waste material including paints, lubricants, fuels, solvents, and other chemicals used in connection with the Work. The Contractor will provide proper containers for waste materials and comply with all

applicable laws, rules and regulations in their disposal. The Contractor will dispose of all empty containers off-site as soon as possible. The Contractor will designate one area for transferring paints and solvents from large containers (55-gallon drums) into smaller containers for daily use.

F. The Contractor understands and agrees that the Work Location may include wetlands or other environmentally sensitive areas. The Contractor shall not enter these areas during the performance of its Work, unless specifically authorized by the Engineer and appropriate state and federal permits have been obtained.

G. The Contractor and/or Subcontractor's employees shall not endanger wildlife species or domestic animals of any kind.

H. The Contractor shall immediately cease any activity that causes or results in a violation of the Owner's or the Contractor's environmental permits or federal, state and local laws and regulations. Such violation shall immediately be reported to the Engineer verbally, with written notification to follow. All additional costs due to the Contractor's noncompliance with the applicable environmental permits or Environmental Requirements shall be paid by the Contractor.

SECTION 3.10: OTHER WORK AND OTHER PROPERTY

3.10.1 Encroachments on Rights or Property

A. The Contractor shall be solely responsible for any encroachments on public property or on the rights or property of adjoining property owners to the Work Location, and shall hold the Owner harmless because of any encroachments that may result because of the Contractor's improper layout. In this regard, the Contractor shall, without extra cost to the Owner, remove any Work or portion of any Work that encroaches on the property other than that of the Work Location, or that is built beyond legal building or setback limits. The Contractor shall rebuild the affected Work or portion of Work at the proper location and in full compliance with the Contract Documents.

3.10.2 Interference With Existing Utilities

A. The Contractor acknowledges and agrees that there is a possibility that existing the Owner or other utility facilities may cross and/or lie parallel to excavations in the area where Work will occur. Although the Owner may indicate recorded obstacles on the drawings, it does not warrant that other subsurface obstacles do not exist. The Contractor shall be responsible for verifying the data furnished by the Owner and for fully investigating and locating additional obstructions including every type below, on or above the ground. The Contractor should regard these impediments as normal to construction. All costs for performing such work shall not be paid for separately, but shall be included in the Contractor's costs on the Bid Form.

B. The Contractor shall comply with all requirements of the Underground Facility Damage Prevention and Safety Act, Chapter 556, *Florida Statutes*.

C. In the event the Contractor encounters an unidentified utility during performance of the Work, the Contractor shall promptly cease Work in the affected area and shall immediately notify the Owner's Representative in writing. The Owner will investigate the area and propose remedial actions in accordance with the provisions stated herein in the Section 14, "Changes to Work."

D. The Contractor shall work in cooperation with the Owner and representatives of existing utilities to plan and coordinate putting new Work into service so as not to interfere with the operation of the existing utilities. Such plans shall be adhered to unless deviations therefrom are expressly permitted in writing by the Contract Administrator.

E. The Contractor shall at all times conduct the Work in a manner that interferes as little as possible with the existing utilities. Any cables exposed during construction, whether energized or not, must be handled and protected as if they are energized. The Contractor shall so conduct its operations and maintain the Work in such condition that adequate drainage shall be in effect at all times. The Contractor shall not obstruct existing gutters, ditches and other runoff facilities. When working in the vicinity of overhead lines, the Contractor shall request line rubber protection and pole holding services from the Owner of the overhead lines at least ten (10) calendar days in advance of performing the work.

F. The Contractor shall be solely responsible for any damages, interferences, and interruptions of service caused to any utility's assets and services including water, sewer, electric, telephone, gas, cable, and other utility services, that result from the Contractor's failure to fulfill the above stated requirements.

G. In the event the Contractor damages an existing utility, the Contractor shall immediately notify the property owner, the owner of the damaged utility and the Engineer. Should the damage cause an interruption of service, the Contractor shall be responsible for restoring service as soon as possible; however, the Contractor shall not make repairs, other than any required to restore safe conditions, without the approval of the property owner, or the owner of the damaged utility. The Contractor shall be responsible for coordinating any repair effort, and any associated costs should the utility owner or a licensed repair contractor be required to make the repair. The Owner reserves the right to deduct any unsettled claim amount from Contractor's invoices until such time as the claim is satisfactorily resolved.

3.10.3 Interference with Other Owner Work or Other Companies

A. The Contractor shall perform the Work in a manner that minimizes the interference with other Owner work, or with work performed by other companies. The Contractor shall coordinate the Work with other persons and companies employed by the Owner. If a difference of opinion regarding scheduling or coordination of the work arises between the Contractor and another Owner contractor(s) performing work at the Work Location,

the Owner may arbitrate the matter. In such cases where the Owner makes a decision regarding the scheduling or coordination of the work, the Contractor agrees to fully abide by the Owner's decision. Unless otherwise agreed in writing by the Owner, the Owner will not be responsible for additional costs.

B. Any claims arising against the Contractor from damages to other companies' work, equipment, machinery, tools or other property shall be settled directly between the Contractor and the other companies involved. The Owner will not, in any way, be a party to arbitrating or mediating any such disputes, nor shall the Owner be responsible for any costs associated with such disputes.

3.10.4 Interference with Railroads

A. The Contractor shall not build across, into, over or under, either temporarily or permanently, any portion of a railway or railway right-of-way without first obtaining all required permits. If the Contractor's operations render any railroad unsafe, the Contractor shall immediately notify the Engineer, and the railroad owner and take appropriate actions and such temporary safeguards as required to protect life, limb, and property, and to maintain orderly traffic.

B. The Contractor shall procure all railroad permits required for the Work beyond those procured by the Owner and the costs for such permits shall be included in the Bid Documents. All costs associated with railroad fees for railroad flagmen, watchouts, inspectors, supervisors, any additional training of Contractor's employees that is required by applicable laws, rules and regulations when performing Work in association with railways, any certifications required for successful completion of the Work and all other associated costs shall be included in the Bid Form.

3.10.5 Interruption of Service

A. The Contractor shall not operate any valves, nor otherwise interrupt water and/or sewer service, without first obtaining permission from the Owner. The Owner shall be present during any interruption of service.

B. If the Contractor must shut down a main or portion of a main, thereby causing an interruption of water service, the Contractor shall provide the Owner with the following information, in writing, a minimum of five (5) business days in advance of any anticipated interruption of service:

1. Date and time of outage.

2. Purpose of the outage.

3. Map of the area to be affected by the outage.

4. Letter stating all offices, businesses, and residents have been or will be notified by the Contractor at least four (4) business days in advance of the outage (unless the Owner chooses to issue such notification).

C. The Contractor is not authorized to proceed with the requested Work without prior written notice from the Owner that such actions are approved.

D. In the event of a major emergency that endangers life or property, the Contractor may take immediate action before notifying the Owner. In all cases, however, the Owner shall be notified in writing at the earliest opportunity after addressing the emergency.

3.10.6 Protection of Existing Facilities and Grounds

A. The Contractor shall be responsible for protecting all the existing facilities including, but not limited to, buildings, lawns, landscaping, sprinkler systems, and pavements, both public and private, that are encountered during the performance of the Work. At all times, the Contractor shall cooperate with the owners of such facilities by arranging and performing the Work in and around such facilities in a manner that facilitates their preservation, relocation, and/or reconstruction. The Contractor shall be responsible for the full restoration or replacement if the Contractor damages such facilities during or resulting from performance of the Work.

B. The Contractor shall verify the existing dimensions and clearances before laying out the Work. When the Work involves the laying of utility lines across landscaped areas and grassed areas, which may include, but is not limited to, irrigation systems, streets, sidewalks, and other paved areas, the Contractor shall protect and preserve all trees, shrubs, palms, landscaping, etc., and restore such areas and all paved areas to their original sound conditions using construction techniques and materials that are the same as existing including replacing plants and trees with those of similar size and age. In the case of planted areas, the Contractor shall maintain the restoration Work until positive growth has been acknowledged in writing by the Engineer.

C. All costs for such restoration and replacement work shall be included in the associated lines on the Bid Form, and shall not be paid for separately.

D. The Contractor shall not (except upon written consent from the property owner and Contract Administrator) enter or occupy with workers, tools, equipment or vehicles any land outside the easements, right-of-ways, or the Owner’s property.

3.10.7 Temporary Closure of Roadways

A. The Contractor shall not close or obstruct any portion of a street, road, or private way without first obtaining permits. If any street or private way is rendered unsafe by the Contractor's operations, the Contractor shall make such repairs or provide such temporary ways and guards necessary for the protection and safety of persons on the

Work and the public and for the orderly maintenance of traffic. All costs associated with temporary closure of roadways shall be included in the Bid price.

B. The Contractor shall notify the police and fire departments in writing if it will be necessary to close a street. The Contractor shall copy the Owner on all correspondence relating to street closure. The Contractor shall notify the police and fire departments prior to closure of the street. The Contractor shall be responsible for maintaining proper coordination with the proper authorities.

C. Temporary closure of business entrances must be approved in writing by and coordinated with the Owner.

D. For the purposes of this Contract, the Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS.

SECTION 3.11: DRAWINGS

3.11.1 Shop Drawings

A. The Contractor shall submit all Shop Drawings according to the Schedule of Submittals approved by the Engineer and the DIVISION 6: TECHNICAL SPECIFICATIONS.

B. Shop drawings shall establish the actual quantities, dimensions, materials and specified performance and design details of all manufactured or fabricated items, services and equipment that Contractor proposes to provide for the Work; indicate proper relation to adjoining Work; amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure; and incorporate minor changes of design or construction to suit actual conditions.

C. Shop drawings shall be complete in every detail, properly identified with the Contract name, Contract and subsection number for identification of each item, and state the qualifications, departures or deviations from the Contract, if any. Shop drawings for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. Each drawing shall have a clear space above the title block in the lower right-hand corner for the approval stamps of the Contractor and the Engineer.

D. In checking the Shop Drawings, the Contractor shall:

1. Verify all dimensions and field conditions, and shall check and coordinate the Shop Drawings of any section or trade with the requirements of all other sections or trades whose Work is related thereto, as required for proper and complete installation of the Work.

2. Verify all rough-in and connections for utilities shall conform to approved equipment Shop Drawings

3. Review and coordinate each Shop Drawing with other Shop Drawings and the Contract Documents

4. Determine and verify all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety programs.

E. The Engineer will review the Shop Drawings and will return them to the Contractor stamped to indicate the action taken. For planning purposes, the Contractor shall allow a minimum of two (2) weeks for review of each Shop Drawing. The stamp will indicate that the Shop Drawing is "No Exception Taken", "Make Corrections Noted", "Revise and Resubmit" or "Rejected". Only those Shop Drawings stamped "Revise and Resubmit" or "Rejected" shall be resubmitted for subsequent review. Resubmittals shall be in the same form and number of copies as original submittals, with notation indicating a revised submittal. The Shop Drawings stamped "No Exception Taken" or "Make Corrections Noted" will be returned to the Contractor, who will be responsible for obtaining prints thereof and distributing them to the field and Subcontractors.

F. At the same time the Engineer returns a reviewed submittal to the Contractor it will forward two copies of each item stamped "No Exception Taken" or "Make Corrections Noted" together with any conditions of approval, to for field and office use. The Engineer may revoke approval of Shop Drawings, should field conditions so dictate.

SECTION 3.12: INSPECTIONS, QUALITY & REPORTING

3.12.1 Contractor's Daily Reports

A. The Contractor shall complete and submit daily reports for each calendar day of the Work, starting with the date of the Notice to Proceed, and said reports shall be submitted to the Owner's Representative by noon of the following workday. The Contractor's failure to submit the daily reports as specified herein will be grounds for withholding payments.

B. Upon review of the Contractor's Daily Reports, any discrepancies in the information noted by the Owner's Representative will be provided to the Contractor. A revised Daily Report will be resubmitted within one (1) business day.

3.12.2 Reporting

A. The Contractor shall provide the reports as defined in the Contract Documents. The Contractor shall refer to DIVISION 6: TECHNICAL SPECIFICATIONS.

B. Where the reporting frequency is daily, reports shall be submitted by noon of the following workday. Where the reporting frequency is weekly, reports are due by Monday at noon, covering the prior workweek. Where Monday is a Holiday, the reports are due at noon on the next workday. Where reports are due monthly, reports are due by noon

on the first business day of each month. Sample forms for reports may be included in the Contract Documents. Where they are included, they are to be used. Where they are not included, the Contractor shall provide a sample of its proposed report format for each report to the Engineer at least one (1) week prior to its initial due date. The Engineer will review and either approve or reject the use of the report. Where the proposed report is rejected, the Contractor shall resubmit revised report formats, until the Engineer approves format. The Reporting Cycle shall begin on the Notice to Proceed date or the date of the purchase order, if used.

C. Where the Contract calls for reports to be submitted by the Contractor, such reports shall be in both paper and electronic format, with the electronic version submitted electronically via email to the Engineer.

3.12.3 Quality Control and Quality Assurance

A. The Contractor shall provide Quality Control to ensure the Work is performed in accordance with the Contract and in adherence with the Standard of Care. Quality Control shall be appropriate for the nature of the Work, and shall be conducted in a manner consistent with sound quality management and industrial engineering principles. The Contractor shall have only personnel trained in Quality Control techniques and experienced with the nature of the Work perform the Quality Control function.

B. The Owner may perform Quality Assurance activities. Such activities, whether performed or not, do not in any way limit or reduce the Contractor's requirements. The Owner may become aware of quality related problems during its performance of Quality Assurance, but has no obligation to notify the Contractor of its findings. The Contractor shall provide access to all areas of Work, including the Contractor's facilities, for the Owner’s Quality Assurance personnel and the Owner’s Representatives. The Owner will conduct Quality Assurance activities so as not to excessively interfere with the Work, however, where the Owner Quality Assurance personnel request specific actions of the Contractor, the Contractor shall comply with the request and agrees that such compliance is included as part of its Contract Price.

C. The Contractor shall refer to DIVISION 6: TECHNICAL SPECIFICATIONS.

3.12.4 Inspections and Testing

A. The Owner, or its designated representatives, will perform inspections at the Contractor facilities during normal business hours and in a manner that minimizes disruption to the normal day-to-day work activities of the Contractor. Contractor shall provide safe and proper facilities for inspection access and observation of the Work and also for any inspection or testing by others.

B. If the Contractor has covered or concealed any Work from inspection in any way that the Engineer has not specifically requested prior to the Owner’s Representative’s inspection, or if the Engineer considers it necessary or advisable that covered Work be inspected or

tested by others, the Contractor, at the Engineer's request, shall uncover, expose or otherwise make available the portion of the Work in question for observation, inspection or testing as the Engineer may require. The Contractor shall furnish all necessary labor, material and equipment to make such Work available.

C. The Contractor shall bear all expenses of uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including, but not limited to, compensation for additional professional services required by the Owner, and no change in Contract Time will be considered as a result of the foregoing.

D. The Owner may, at its sole discretion, grant the Contractor an extension of the Contract Time directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

E. All materials and equipment used in the construction of the Contract shall be subject to adequate inspection and testing in accordance with accepted standards. The Contractor shall select the laboratory or inspection agency for making all tests required by the specifications, and shall pay for this laboratory service direct, as a part of this Contract.

G. The Contractor shall pay for all required testing of materials and equipment. Two (2) copies of each test showing certification of each test shall be furnished to the Engineer immediately after such test has been made and with the exception of concrete, prior to delivery of the materials or equipment tested to the Work Location. The Owner will not accept the materials or equipment until tests have been approved.

H. Materials of construction, particularly those upon which the strength and durability of the structure may depend, shall be subject to inspection and testing to establish conformance with specifications and suitability for uses intended. Test requirements for all materials are set out in the detailed specifications for that particular material. All materials and equipment prior to being incorporated in the Work, and required by the Engineer to be tested, shall be tested for conformance with contractual requirements. Standard items of a uniform nature may be accepted on the manufacturer's certification. Where specific performance and/or quality is referred to, it is the Contractor's responsibility to have the necessary tests performed by qualified persons to show that the contractual requirements are being met except those tests named in the Contact Documents to be performed by the Owner. Certified test results shall be submitted promptly in quadruplicate to the Engineer for review. All tests shall be performed in accordance with referenced standards. Where no reference is made, tests shall be performed in accordance with the methods prescribed by the American Society for Testing and Materials or such other organization as would be applicable.

I. The Contractor shall pay for any retests resulting from its failure to provide Work that passes required tests.

J. The Engineer, or the Owner appointed Inspectors may inspect any and all materials and Work. Such inspection may extend to any or all parts of the Work and to the preparation

and manufacture of the materials to be used. The Inspectors shall not be authorized to alter, revoke, enlarge or relax the provisions of the Contract, nor will they be authorized to approve or accept any portion of the completed Work, nor to issue instructions contrary to the Contract. The Inspector shall inform the Engineer of the progress of the Work and the manner in which it is being done, and notify the Contractor of any infringement upon the Contract Documents. The Inspectors will have the authority to reject defective materials or to suspend any Work that is being improperly done subject to the final decision of the Engineer.

3.12.5 Performance Evaluation

A. The Owner may, upon completion of the Work or at any time during the Work, issue to the Contractor a written performance evaluation of the Contractor's performance of Work under this Contract. The evaluation will be based upon the Owner's and the Engineer's reports, inspections, and first-hand experience in dealing with the Contractor and the Contractor's representatives. The performance evaluation will indicate whether the Contractor's performance has been deemed "Satisfactory," "Unsatisfactory" or "Top Performance" with regard to the following criteria:

1. Timeliness;
2. Customer Service to Owner;
3. Care of Owner's Customers;
4. Financial Performance;
5. Quality of Workmanship;
6. Quality of Materials & Equipment;
7. Safety;
8. Environmental;
9. Compliance with MBE/WBE Requirements; and
10. Project Administration.

SECTION 3.13: OWNER-FURNISHED ITEMS

3.13.1 Conditions of Provisioning

A. The Contractor understands and agrees that it shall be solely responsible for providing everything necessary to perform the Work and to be in full compliance with the Contract Documents, except for those items specifically listed herein as being provided by the Owner.

B. Any use of Owner-furnished items on non-Owner work is a breach of the Contract and a violation of the law. All Owner-furnished items are the property of the Owner when issued, stored by Contractor, and used in performance of the Work. The Contractor agrees that it shall use all Owner-furnished items in a manner consistent with industry practice, codes, laws, considering the condition of the Owner-furnished item, the skills of the individuals using the Owner furnished item, and all environmental conditions. The Contractor understands and agrees that where the Owner and the Contractor shall share Owner-furnished items, Owner usage shall always have priority over Contractor usage, and the Contract Administrator shall have sole authority to resolve any usage dispute and such resolution shall not result in any claim by Contractor.

C. The Contractor agrees to return to the Owner, and to the location as established by the Engineer, any unused or salvageable items prior to final payment. The Contractor agrees that the Owner has the right to audit and investigate at any time how the Contractor is using Owner-furnished items. The Owner will bill the Contractor for unaccountable Owner-furnished material at the current Owner cost.

3.13.2 Access to Work Locations

A. The Owner will provide, as indicated in the Contract Documents, and no later than the date when needed by the Contractor, access to the Work Location, including rights-of-way or access thereto, and such other lands that are designated for the Contractor's use. The Owner will secure easements for permanent structures or permanent changes in existing facilities, unless otherwise specified in the Contract Documents.

3.13.3 Contract Documents

A. After Contract Award, the Owner will furnish a maximum of one (1) complete set of the Contract Documents, or portions requested thereof, upon request by the Contractor. Additional copies will be supplied at cost to the Contractor.

3.13.4 Site Conditions

A. The Owner will provide to Contractor test data results from field tests. Such data has been determined by the Owner to be sufficient to describe the conditions to be expected during the performance of the Work. The Contractor shall not be entitled to any claim for additional costs associated with any ground related Work, unless the actual conditions found substantially differ from those described by the test data.

B. The Contractor is responsible for verifying Site conditions and obtaining additional data as the Contractor deems necessary. The Contractor will be responsible for all costs associated with the gathering of additional Site data.

SECTION 3.14: CHANGES TO WORK

3.14.1 Unforeseen Conditions

A. The Contractor understands and agrees that it is its responsibility to conduct due diligence prior to the start of Work. Such due diligence includes, but is not limited to, verifying all Work conditions, measurements, dimensions and latent and patent obstructions, the accuracy of drawings, test results, inspections and other informational materials provided in the Contract Documents, and any other causes for existing or potential changes to the Work prior to initiating the Work. In the event that the Work must be changed due to the Contractor's failure to fulfill the above requirements, the Contractor understands and agrees that it will be responsible for all costs associated with the changed condition.

B. In the event, however, that the Contractor exercises the requisite due diligence and a change to the Work becomes necessary resulting from conditions that are clearly unforeseen and that could not have been discovered, the costs for adjusting the Work in response to such unforeseen conditions shall be addressed as stated herein in Article 3.14.2 below titled "Changes in the Work and Change Orders."

3.14.2 Changes in the Work and Change Orders

A. The Engineer may issue to the Contractor a written Field Order to authorize minor changes to the Work having no impact on Contract Price or Contract Time. If the Contractor anticipates that the Field Order work will impact the Contract Price or Contract Time the Contractor should immediately notify the Engineer.

B. In the event of an emergency endangering life or property where it is appropriate for the Contractor to take action, the Contractor shall undertake such actions to preserve life and property. The Owner and the Contractor will determine after emergency is concluded, the extent of out-of-scope work performed by the Contractor, and the Owner will issue a Change Order or amend the Contract for such work, if any and as necessary.

C. Anything to the contrary notwithstanding, in the event that the Owner determines that a change must proceed immediately or if the Owner rejects all or a portion of the Contractor's estimated effect of a change, then the Owner may direct, and the Contractor shall commence immediately and perform until completion, the necessary services to implement the change. The Owner will issue such direction in the form of a written Work Change Directive. The Contractor shall be compensated for such change in the work, notwithstanding any objections of the Contractor, which objections shall be preserved and not waived by the Contractor's commencement or performance of the Work as directed by the Owner.

D. To request or claim any change in the Work including, but not limited to change in scope, quantities, pricing, or schedules, the Contractor shall submit a letter to the Engineer stating such request or claim. The Engineer shall review and submit a written recommendation to the Owner. The Owner shall have the right to approve or disapprove any request or claim for change as it deems necessary and in its best interests consistent with the other Contract requirements. Whether requested by the Contractor, claimed by the Contractor, or contemplated by the Owner, no change shall be authorized unless made on an Owner Change Order signed by the Contract Administrator or through a formal written amendment to this Contract.

E. All requests for changes filed by the Contractor shall be in writing delivered to the Owner's Representative within ten (10) business days of when the event that prompted the claim was discovered or should have been discovered. The Contractor's failure to timely submit a written claim will constitute a waiver of the right to pursue a claim. Upon receipt of the Contractor's claim notification, Owner's Representative will provide written direction as to the procedures that will be used to address the request. The Contractor's request shall be sufficiently detailed including itemized costs, condition and work descriptions and other information necessary to evaluate the merits of the claim. A cost breakdown showing all labor, material and equipment shall be provided. The Owner's Representative may reject requests providing insufficient supporting information. Any change in the Contract resulting from the request will be incorporated into the Contract via a Change Order or Purchase Order. Where the Engineer and the Contractor are unable to reach a mutually acceptable resolution of request, the Owner's determination will be final.

F. Where necessary, the Owner will determine the value of work covered by a change order using one of the following methods:

1. Where the work is covered by established unit prices contained in the contract, the unit price, if the Owner agrees that this is a fair and reasonable price; otherwise, a negotiated price will be applied to the quantity of work at the discretion of the Owner,

2. By mutual acceptance of lump sum price,

3. By actual cost and a mutually acceptable fixed amount for overhead and profit, or

4. Where Bid Price was based on estimated quantities, prior to making final payment, the Owner will determine actual quantities using sampling, surveying and other industry recognized means and prepare a Change Order adjusting the price to reflect actual volumes.

G. The Contractor shall immediately notify the Owner's Representative in writing of any unauthorized change in the scope of the Work or significant change in the quantities of the Work that may increase the Contract Price, require an extension of Work schedule, or negatively impact permitting or other regulatory requirements.

H. The Contractor shall submit requests or claims for a Work schedule adjustment in writing and delivered to the Engineer within five (5) business days following the discovery of the event that prompted the claim or when the event should have been discovered. Where accepted by the Owner, changes to the Approved Schedule will only adjust for critical path impacts. Failure to include the necessary critical path analysis with request shall be grounds for rejecting the claim. The path of critical events mentioned herein means the series of interdependent Work events that must be sequentially performed and that require a longer total time to perform than any other such series. Upon receipt of the Contractor's request for a change in the Work schedule, the Owner's Representative will provide any additional directions in writing detailing the procedures that will be used to resolve the request, including provision of time impact or manpower and equipment loading schedules. Where the Owner and the Contractor are unable to reach a mutually acceptable resolution of request, the Owner will make a commercially reasonable determination, made in accordance with the Owner's established policies and procedures, which shall be final.

I. All Work defined on Field Orders, Work Change Directives and Change Orders shall be subject to the conditions of the Contract, unless specifically noted on the Field Order Form, Work Change Directive Form, or Change Order.

3.14.3 Delay

A. Damage, loss, expense or delay incurred or experienced by the Contractor in the prosecution of the Work by reason of unforeseen circumstances, unanticipated difficulties and obstructions, bad weather, or other mischances that are generally considered to be a part of the usual hazards associated with Work, shall be borne entirely by the Contractor and shall not be the subject of any claim for additional compensation or change in Approved Schedule.

B. The Contractor agrees that its sole remedy for any claims, damages or losses related to any delay, disruption or hindrance alleged to be caused by the Owner or any of the Owner's agents or other contractors, shall be an extension of the Contract completion date. As such, the Contractor shall not recover any cost associated with extended home/field office overhead, idle labor/equipment/materials, subcontractors' claims or any other miscellaneous costs.

C. Any demand for equitable time adjustment must be served in writing to the Owner within five (5) calendar days of the event giving rise to any delay, disruption or hindrance. Any request for an equitable time adjustment shall be accompanied by a logical time impact analysis, demonstrating the nature and magnitude of the event to the critical path. Any request that is not clearly shown to be an impact to the project's critical path will be denied.

D. Failure to strictly comply with these requirements shall be deemed a waiver of any right to seek equitable adjustment.

3.14.4 Notification of Surety

A. The Contractor shall notify its surety of any changes affecting the general scope of the Work or altering the Contract Price.

3.14.5 Contingency Work

A. The Owner will issue a written Change Order to incorporate cost or schedule changes into the Contract. Issuance of a Change Order is solely at the discretion of the Owner. The Change Order shall be used for increases or decreases in the Contract Price, within the contingency amount set forth in the Contract Price, or to make changes in schedule for performance of the Work.

B. The Contractor should not expect that any Change Orders for contingency work will be issued. Owner shall have no obligation to pay for contingency work unless the same is performed pursuant to a written Change Order form signed before the contingency work is commenced.

C. The Contractor and the Engineer shall mutually agree to the pricing of a Change Order for contingency work. Any negotiated increase or decrease in the Contract Price shall be based on the Contractor's costs for labor, materials and supplies directly applicable to the increase or decrease plus ten percent (10%) thereof for Contractor's supervision, overhead, bonds and profit. For any negotiated increase or decrease, the Contractor will provide a complete detailed breakdown for all labor, material, and equipment, etc. associated with the change. A lump sum figure submitted with no breakdown will be returned to the Contractor without review.

D. Cost Reimbursable (Time and Materials) Method:

1. The Owner may, at its sole discretion, implement cost reimbursable procedures in order to limit the costs for performance of contingency work. Also, whenever the Contractor and the Owner are unable to agree on costs for an increase in the Work, the Owner or Engineer shall order the Contractor to proceed with the Work on a cost reimbursable (time and material) basis. The Owner will pay the Contractor for the contingency work in the manner hereinafter described, and the compensation thus provided shall constitute full payment for said work. The Owner shall issue the Change Order for the Contractor to perform the specific contingency work with payment determined as follows:

    a. For materials purchased by the Contractor and used in the work, the Contractor shall be paid the actual cost of such materials, including sales taxes if required, and freight and delivery charges as shown by original receipted bills. A mark-up amount equal to ten percent (10%) of the sum thereof shall be added to this cost. The Owner reserves the right to select and approve, or to reject the materials to be used and the sources of supply of any materials furnished by the Contractor.

b. The Contractor will be paid the cost of wages for all labor that is engaged in the Work, plus the actual cost chargeable to the Work for workers' compensation insurance, social security taxes, unemployment compensation insurance and such additional amounts as are paid by the Contractor. A total mark-up shall be added equal to ten percent (10%) of wages and other cost listed above. In evidence of the costs of labor the Contractor shall provide a certified statement of wages actually paid, together with copies of supporting payrolls. Wage rates used in determining the amount of the payment will be the actual wage rates paid by the Contractor for Work under this Contract, except that no rate used shall exceed the rate of comparable labor currently employed on the project.

c. Payment for the services of foremen in direct charge of the specific operation will be made. Payment for the service of superintendents, timekeepers or other overhead personnel will not be made nor will payment for the services of watchmen be made unless required specifically by the contingency Work. The actual function performed by an employee rather than its payroll title will be the criterion used in determining the eligibility of an employee's services for payment under this provision.

d. The types and amounts of equipment and machinery used by the Contractor in carrying out its work under the contingency shall be made in keeping with normal practice for work of similar nature. Owner may, at its discretion, limit by specific instruction the types and amounts of equipment and machinery to be used. For all equipment and machinery used in the contingency work, the Owner will pay eighty percent (80%) of the rental value as set forth in the Blue Book value or actual cost, whichever is less, to which no mark-up percentages will be added.

e. In computing the hourly rental of such equipment, less than thirty (30) minutes shall be considered 1/2 hour except when the minimum rental time to be paid is one hour. Rental time will not be allowed while equipment is inoperative due to breakdowns. The rental time of equipment to be paid for shall be the time the equipment is in operation on the contingency work being performed. The Contractor shall be reimbursed for the time required to move the equipment to the Work, and return it to its original location, only if the Contractor is charged this cost by the renting agency. Excess rental time of equipment due to inefficient work practices will not be reimbursed.

f. No payment will be allowed for the use of small tools and minor items of equipment, which, as used herein, are defined as individual tools or pieces of equipment having a replacement value of $500.00 or less.

g. The Contractor and the Engineer shall compare records of the Work performed on a Cost Reimbursable basis at the end of each day. These records shall be prepared by the Contractor and shall be signed by both the Owner and the Contractor's Representative. A copy of these records shall be submitted to the Owner with the invoice for the work.

h. Payment for cost reimbursable contingency work will be included in monthly progress payments.

i. The Contractor's Subcontractors will be allowed a ten percent (10%) mark-up on Work performed by their own forces. The Contractor will be allowed a five percent (5%) mark-up on the Subcontractor's costs (i.e. labor, materials and equipment) only, no mark-up on the Subcontractor's profit.

3.14.6 Suspension of Work

A. The Owner may suspend the performance of the Work rendered by providing the Contractor with five (5) business days written notice of such suspension. Schedules and compensation for performance of the Work shall be amended by mutual agreement to reflect such suspension. In the event of suspension of Work, the Contractor shall resume the full performance of the Work when the Owner gives written direction to do so. Suspension of Work caused by the Contractor's sole negligence or failure to perform shall not affect the Contractor's compensation as outlined in the Contract Documents.

3.14.7 Unauthorized Work

A. The Owner will consider any Work done without lines and grades given, Work done beyond the lines and grades shown on the Contract or as given, or any extra Work done without written authority, as unauthorized Work and will not pay the Contractor for such Work. If so ordered by the Contract Administrator, the Contractor shall remove such Work and properly replace it at the Contractor's own expense.

3.14.8 Payment of Overtime

A. Any Overtime required for the Contractor to complete the Work within the Contract Time shall be at the sole cost and expense of the Contractor.

B. If the Owner requires the Contractor to perform Overtime Work in order to complete the Work prior to the Contract Time, the Contractor shall bill the Owner for the Overtime such that only the actual costs incurred by the Contractor relating to the payment of Overtime premiums, in accordance with its labor policies and applicable laws. Such actual costs include Overtime wage premium, and additional taxes and insurance directly associated with the Overtime wage premium. The Contractor agrees that it will not charge for personnel paid a salary, or other form of compensation such that the Contractor incurs no direct costs as a result of the Overtime. The Contractor shall total the direct Overtime charges, and add the agreed upon overhead rate, but in no case, shall such overhead rate exceed ten percent (10%) of the total overtime costs.

C. Overtime may only be charged to the Owner if the Contractor was directed in writing by the Contract Administrator to incur the Overtime. Such authorization for Overtime shall be accompanied by a Change Order.

3.14.9 Scheduling of Overtime (Contractor Initiated Overtime)

A. Whenever the Contractor schedules Work beyond ten (10) hours per day, beyond fifty (50) hours per week, or on Saturdays, Sundays, or Owner Holidays, then the Contractor shall arrange, in advance, for the Engineer to inspect the Work performed during Overtime. The Contractor shall not perform Overtime Work or after-hours Work without an Owner's Representative at the Work Location or available to perform the inspections, as directed by the Contract Administrator. Except where the Owner has requested the Contractor schedule Overtime to perform additional Work, the Contractor shall reimburse the Owner for any additional costs associated with the Owner's Representatives' Overtime pay.

SECTION 3.15: LABOR

3.15.1 3.15.1 E-Verify Requirements.

Effective January 1, 2021, public and private employers, contractors, and subcontractors must require registration with, and use of the E-Verify system in order to verify the work authorization status of all newly hired employees. Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

(1) All persons employed by Contractor to perform employment duties within the State of Florida during the term of the Agreement; and

(2) All persons (including subcontractors/subvendors/subconsultants) assigned by Contractor to perform work pursuant to this Contract with the Owner. Contractor acknowledges and agrees that the use of the U.S. Department of Homeland Security's E-Verify System during the term of this Agreement is a condition of the Contract with the Owner.

By entering this Contract with the Owner, Contractor becomes obligated to comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility." This includes, but is not limited to, use of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit to Contractor attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Contractor agrees to maintain a copy of such affidavit for the duration of this Agreement. Failure to comply with this section will result in the termination of this Contract as provided in Section 448.095, Florida Statutes, and Contractor may not be awarded a public contract for at least one (1) year after the date on which the Contract was terminated. Contractor will also be liable for any additional costs to Owner incurred as a result of the termination of this Contract in accordance with this section.

3.15.2 DBE, MBE and/or WBE Requirements

A. Contractor represents that it will comply with all applicable provisions regarding DBE, MBE and/or WBE enterprises requirements stated in the DIVISION 4: SUPPLEMENTAL CONDITIONS.

3.15.2 Contractor's Labor Relations

A. The Contractor shall negotiate and resolve any disputes between the Contractor and its employees, or anyone representing its employees. The Contractor shall immediately notify the Owner of any actual or potential labor dispute that may affect the Work and shall inform the Owner of all actions it is taking to resolve the dispute.

3.15.3 Minimum Qualifications of Contractor Personnel

A. All Contractor personnel shall be at a minimum qualified for the tasks they are assigned. All Contractor personnel shall act in a professional manner, with due sensitivity to other persons at the Work Location. If the Owner, at its sole reasonable discretion, determines that a Contractor's person is unqualified, unfit, or otherwise unsuitable for the tasks assigned, the Contractor shall immediately stop the person from performing the tasks, and replace the person with a qualified individual. The Contractor shall pay all costs associated with replacing the unqualified person including, but not limited to, termination, recruiting, training, and certification costs.

B. The Contractor personnel assigned supervisory roles, and those with increased authority shall be held to strict scrutiny of their qualifications and suitability for their positions. In addition to the other provisions of this clause, the Contractor shall provide written documentation as to experience, education, licenses, certifications, professional affiliations, and other qualifications of the individual, within one (1) day of request from the Engineer. Any changes to such personnel after approval shall require the written permission of the Engineer.

3.15.4 Nondiscrimination

A. Contractor represents that it will comply with all applicable provisions regarding equal employment requirements stated in the DIVISION 4: SUPPLEMENTAL CONDITIONS.

B. The Contractor represents that it has adopted and will maintain a policy of nondiscrimination against employees or applicants for employment on account of race, religion, sex, color, national origin, age or handicap, in all areas of employee relations, throughout the Term of this Contract. The Contractor agrees that on written request, it will allow the Owner reasonable access to the Contractor's records of employment, employment advertisement, application forms and other pertinent data and records for the purpose of investigation to ascertain compliance with the nondiscrimination provisions of this Contract; provided however, the Contractor shall not be required to produce, for inspection, records covering periods of time more than one (1) year from the effective date of this Contract.

C. The Contractor shall comply with the following executive orders, acts, and all rules and regulations implementing said orders or acts, which are by this reference incorporated herein as if set out in their entirety:

1. The provisions of Presidential Order 11246, as amended, and the portions of Executive Orders 11701 and 11758 as applicable to Equal Employment Opportunity;

2. The provisions of section 503 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA); and

3. The provisions of the Employment and Training of Veterans Act, 38 U.S.C. 4212 (formerly 2012).

D. Discriminatory Vendor List. Contractor hereby acknowledges its continuous duty to disclose to the Owner if Contractor or any of its affiliates, as defined by Section 287.134(1)(a), Florida Statutes, has been placed on the Discriminatory Vendor List. Pursuant to Section 287.134(2)(a), Florida Statutes: "An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity."

E. The Contractor agrees that if any of the Work of this Contract will be performed by a Subcontractor, then the provisions of this subsection shall be incorporated into and become a part of the subcontract.

3.15.5 Show-Up Pay

A. In the event that inclement weather prevents the Contractor from performing Work, the Contractor may be obligated to pay its crew a show-up pay. The Contractor shall be solely responsible for providing this pay.

SECTION 3.16: RIGHTS, REMEDIES, AND DISPUTES

3.16.1 Intellectual Property

A. The Contractor grants to the Owner an irrevocable, perpetual, royalty free and fully paid-up right to use (and such right includes, without limitation, a right to copy, modify and create derivative works from the subject matter of the grant of the right to sublicense all, or any portion of, the foregoing rights to an affiliate or a third party service provider) the Contractor's intellectual property (including, without limitation, all trade secrets, patents, copyright and know-how) that is contained or embedded in, required for the use of, that was used in the production of or is required for the reproduction, modification,

maintenance, servicing, improvement or continued operation of any applicable unit of Work.

B. If the Work contains, has embedded in, requires for the use of any third party intellectual property, or if the third party intellectual property is required for the reproduction, modification, maintenance, servicing, improvement or continued operation of the Work, the Contractor shall secure for the Owner an irrevocable, perpetual, royalty free and fully paid-up right to use all third party intellectual property. The Contractor shall secure such right at its expense and prior to incorporating any third party intellectual property (including, without limitation, all trade secrets, patents, copyright and know-how) into any Work, including, without limitation, all drawings or data provided under the Contract, and such right must include, without limitation, a right to copy, modify and create derivative works from the subject matter of the grant of the right and a right to sublicense all or any portion of the foregoing rights to an affiliate or a third party service provider.

C. Should the Owner, or any third party obtaining such work product through the Owner, use the Work or any part thereof for any purpose other than that which is specified herein, it shall be at the Owner's sole risk.

D. The Contractor will, at its expense, defend all claims, actions or proceedings against the Owner based on any allegation that the Work, or any part of the Work, constitutes an infringement of any patent or any other intellectual property right, and will pay to the Owner all costs, damages, charges, and expenses occasioned to the Owner by reason thereof. The Owner will give the Contractor written notice of any such claim, action or proceeding and, at the request and expense of the Contractor, the Owner will provide the Contractor with available information, assistance and authority for the defense.

E. If, in any action or proceeding, the Work, or any part thereof, is held to constitute an infringement, the Contractor will forthwith either secure for Owner the right to continue using the Work or will, at the Contractor's expense, replace the infringing items with noninfringing Work or make modifications as necessary so that the Work no longer infringes.

F. The Contractor will obtain and pay for all patent and other intellectual property royalties and license fees required in respect of the Work.

3.16.2 Offsets

A. If the Owner reasonably believes the Contractor is in violation of any requirement of the Contract, the Owner may withhold payments that may be due the Contractor, and may offset existing balances with any Owner incurred costs against funds due the Contractor under this and any other Contractor Contract with the Owner, as a result of the violation, or other damages as allowed by the Contract Documents and applicable law.

3.16.3 Proprietary Information

A. The Contractor shall not copy, reproduce, or disclose to third parties, except in connection with the Work, any information that the Owner furnishes to the Contractor. The Contractor shall insert in any subcontract a restriction on the use of all information furnished by the Owner. The Contractor shall not use this information on another project. All information furnished by the Owner will be returned to the Owner upon completion of the Work. The Contractor may retain a copy of such information solely for its own project records.

3.16.4 Removal of Work

A. The Contractor shall not sell, assign, mortgage, hypothecate or remove Work that has been delivered to or installed at the Work Location without the Owner's approval.

3.16.5 Right to Audit and Financial Reporting

A. Upon the Owner's reasonable requests, the Contractor agrees to allow the Owner to audit its financial and operating records for the purpose of determining invoice accuracy, or otherwise assessing compliance with the Contract Documents. The Contractor agrees to allow Owner personnel, their qualified representative, and representatives as stated in DIVISION 4: SUPPLEMENTAL CONDITIONS access the records at Contractor's office, with three (3) business days written notice, for a reasonable period, not less than five (5) business days, in a workspace suitable for the audit provided by the Contractor. All audit work will be done on the Contractor's premises, and no Contractor documentation will be removed from the Contractor's offices. The Contractor agrees to have knowledgeable personnel available to answer questions for the auditors during the time they are at the Contractor's offices and for a period of two (2) weeks thereafter. The Contractor shall provide to the Owner audited financial statements for the most recent fiscal year upon the Owner's request, not later than five (5) business days after receipt of written request.

B. Contractor represents that it will comply with all applicable provisions stated in the DIVISION 4: SUPPLEMENTAL CONDITIONS.

3.16.6 Title to Materials Found

A. The Owner shall retain the title to water, mineral matter, timber and any other materials that the Contractor, or its Subcontractors, encounter during the excavation or other operations of the Work. The Contractor shall use or dispose of this material in accordance with the Contract or written instructions from the Engineer. Any materials found in the excavation, or other operations of the Contractor, that are of archaeological or historical value shall be left in place. The Contractor shall immediately notify the Owner of the find and shall take no further action until directed by the Owner.

3.16.7 Owner's Rights for Contractor Breach

A. In the event that Contractor causes delay to Approved Schedule, performs its Work in a manner that fails to meet the Standard of Care, commits a material breach of this

Agreement, or otherwise damages the Owner at law or in equity, the Owner is entitled to all remedies and damages available at law, including, but not limited to, liquidated damages, actual damages, consequential damages, attorneys' fees, and costs.

3.16.8 Limited Waiver of Consequential Damages

A. The Parties expressly agree that no Party to this Agreement shall be liable to any other Party or Parties to this Agreement for any special, consequential or exemplary damages of any kind whatsoever, whether arising in contract, warranty, tort (including but not limited to negligence), strict liability, or otherwise, including without limitation losses of use, profits, business reputation and financing, subject to the following exceptions: (i) willful misconduct, recklessness, or fraud by the Contractor or any entity for which it is legally responsible; (ii) the Contractor's third-party indemnity obligations under this Agreement or arising by operation of law, including claims for bodily injury, personal injury, or death; (iii) abandonment; (iv) Contractor's liability for liquidated damages; and (v) liability that is recoverable from Project Specific insurance.

SECTION 3.17: REPRESENTATIONS & WARRANTIES

3.17.1 Contractor's Knowledge of the Work

A. The Contractor represents that the Contract Price and the detailed schedule for the execution of the Work are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Owner. The Owner assumes no responsibility for any understanding or representation made by any of its representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that the Owner assumes the responsibility.

3.17.2 Contractor's Plans and Specifications

A. All plans and specifications that the Contractor provides for any building, structure, system or equipment where required by federal, state, local laws and regulation as part of the Work shall bear the seal of a Professional Engineer duly registered in the State of Florida at no cost to the Owner.

3.17.3 Contractor's Warranties

A. The Contractor unconditionally warrants to the Owner for a period of not less than two (2) years (unless otherwise stated in DIVISION 6: TECHNICAL SPECIFICATIONS) from the earlier of Final Acceptance or Substantial Completion and beginning of normal use by the Owner, that all Work furnished under the Contract including, but not limited to, materials, equipment, workmanship, and intellectual property, including derivative works will be:

1. Performed in a safe, professional and workman like manner;

2. Free from Defects in design, material, and workmanship;

3. Fit for the use and purpose specified or referred to in the Contract;

4. Suitable for any other use or purpose as represented in writing by the Contractor;

5. In conformance with the Contract Documents; and

6. Merchantable, new and of first-class quality.

7. Performed in accordance with the Standard of Care as defined herein.

B. The Contractor warrants that the Work shall conform to all applicable standards and regulations promulgated by federal, state, local laws and regulations, standards boards, organizations of the Department of State, and adopted industry association standards. If the Work fails to conform to such laws, rules, standards and regulations, the Owner may return the Work for correction or replacement at the Contractor's expense, or return the Work at the Contractor's expense and cancel the Contract. If the Contractor performs services that fail to conform to such standards and regulations the Contractor shall make the necessary corrections at Contractor's expense. The Owner may correct services to comply with standards and regulations at the Contractor's expense if the Contractor fails to make the appropriate corrections within a reasonable time.

C. If the Work includes items covered under a manufacturer's or Subcontractor's warranty that exceeds the requirements stated herein, the Contractor shall transfer such warranty to the Owner. Such warranties, do not in any way limit the warranty provided by the Contractor to the Owner.

D. If, within the warranty period, the Owner determines that any of the workmanship or supplies are defective or exhibit signs of deterioration, in the opinion of the Owner, the Contractor, at its own expense, shall repair, adjust, or replace the defective Work to the complete satisfaction of the Owner. The Contractor shall pay all costs of removal, transportation, reinstallation, repair, and all other associated costs incurred in connection with correcting such Defects in the Work. The Contractor shall correct any Defects only at times designated by the Owner. The Contractor shall extend the warranty period an additional twelve (12) months (thirty-six (36) months total) for any portion of the Work that has undergone warranty repair or replacement.

E. When operational conditions warrant, the Owner may repair or replace any defective equipment at the Contractor's expense. The Owner may repair or replace any defective Work at the Contractor's expense when the Contractor fails to correct the Defect within a reasonable time of receiving written notification of the Defect by the Owner, when the Contractor is unable to respond in an emergency situation, or when necessary to prevent the Owner from substantial financial loss. Where the Owner makes repairs or replaces defective Work, the Owner will issue the Contractor a written accounting and invoice of

all such work to correct Defects. The Contractor's liability to the Owner for the costs of removal, transportation, reinstallation, and all other associated costs incurred in connection with correcting Defects in the Work will be limited to 1.5 times the original installed purchase price of the specific Work.

F. The Contractor's warranty excludes remedy for damage or Defect caused by abuse, improper or insufficient maintenance, improper operation, or wear and tear under normal usage.

3.17.4 Competent Performance of the Work

A. The Contractor represents that it will conduct the Work in a manner and with sufficient labor, materials and equipment necessary to affect a diligent pursuance of the Work through Final Completion. If, in the sole opinion of the Owner, the Contractor fails to perform the Work as represented, the Owner may, at its sole discretion, take charge of the Work and furnish and provide the labor, materials, and equipment necessary to complete the Work as planned within the required time if the Owner deems the organization of the Contractor or its management, or the manner in which Contractor is performing the Work, to be manifestly incompetent or inadequate to complete the Work as specified. The Contractor shall pay the Owner for the cost of all such Work completed by the Owner.

3.17.5 Encroachment on Outside Property

A. The Contractor warrants that it shall not encroach on any rights or property of the public or adjoining property owners and shall hold the Owner harmless because of any encroachments that may result from the Contractor's lack of proper layout. If such an encroachment occurs, the Contractor agrees to remove any Work or portion thereof, that encroaches on the property of others, or that is built beyond legal building or setback limits, and shall rebuild the affected Work, or portion thereof, at the proper location, all without extra cost to the Owner.

3.17.6 Free and Clear Title

A. The Contractor warrants that it has title to all equipment and materials furnished under the Contract where title will pass to the Owner, and that the equipment and materials passed to the Owner are free and clear of all liens, claims, security interests and encumbrances.

3.17.7 Performance of the Work

A. The Contractor represents and warrants that it has the full corporate right, power and authority to enter into the Contract and to perform the acts required of it hereunder, and

that the performance of its obligations and duties hereunder does not and will not violate any Contract to which the Contractor is a party or by which it is otherwise bound. The Contractor warrants that all items provided under the Contract shall be free from Defect and services shall be performed in a professional manner and with professional diligence and skill, consistent with the prevailing standards of the industry. The Contractor warrants that the Work will meet the functional and performance requirements defined in the Contract.

3.17.8 Safety Representation

A. The Contractor represents and warrants to the Owner that it has the capacity to train and supervise its employees, Subcontractors and Suppliers to ensure the Work complies with all safety requirements of the Contract Documents. The Contractor shall be responsible for executing the necessary safety training and supervision of its employees and Subcontractors, and acknowledges that the Owner is not responsible for training or supervising the Contractor's employees, except when noted for the purpose of enforcing compliance with these safety requirements.

SECTION 3.18: TERM & TERMINATION

3.18.1 Term of Contract (Through Work Completion)

A. The Contract shall be in force through completion of all Work, Final Acceptance and final payment, including resolution of all disputes, claims, or suits, if any. Certain provisions of this Contract may extend past termination including Warranty provisions.

3.18.2 Termination for Convenience

A. The Owner shall have the absolute right to terminate in whole or part the Contract, with or without cause, at any time after Award upon written notification of such termination.

B. In the event of termination for convenience, the Owner will pay the Contractor for all disbursements and expenses that the Contractor has incurred, or those for which it becomes obligated prior to receiving the Owner's notice of termination. Owner will also pay the Contractor costs incurred less the reasonable resale value, of materials or equipment that the Contractor has already ordered, obtained or fabricated in connection with the Contract.

C. Upon receipt of such notice of termination, the Contractor shall stop the performance of the Work hereunder except as may be necessary to carry out such termination and take any other action toward termination of the Work that the Owner may reasonably request, including all reasonable efforts to provide for a prompt and efficient transition as directed by the Owner.

D. The Owner will have no liability to the Contractor for any cause whatsoever arising out of, or in connection with, termination (whether for convenience or default) including, but

not limited to, lost profits, lost opportunities, or resulting change in business condition, except as expressly stated within these Contract Documents.

3.18.3 Termination for Default

A. Owner may give the Contractor written notice to discontinue all Work under the Contract in the event that:

1. The Contractor assigns or subcontracts the Work without prior written permission;

2. Any petition is filed or any proceeding is commenced by or against the Contractor for relief under any bankruptcy or insolvency laws;

3. A receiver is appointed for the Contractor's properties or the Contractor commits any act of insolvency (however evidenced);

4. The Contractor makes an assignment for the benefit of creditors;

5. The Contractor suspends the operation of a substantial portion of its business;

6. The Contractor suspends the whole or any part of the Work to the extent that it impacts the Contractor's ability to meet the Work schedule, or the Contractor abandons the whole or any part of the Work;

7. The Contractor, at any time, violates any of the conditions or provisions of the Contract Documents, or the Contractor fails to perform as specified in the Contract Documents, or the Contractor is not complying with the Contract Documents;

8. The Contractor attempts to willfully impose upon the Owner items or workmanship that are, in the Owner's sole opinion, defective or of unacceptable quality;

9. The Contractor breaches any of the representations or warranties contained herein;

10. The Contractor is determined, in the Owner's sole opinion, to have misrepresented the utilization of funds or misappropriated property belonging to the Owner; or

11. There is any material change in the financial or business condition of the Contractor.

B. If, within twenty-four (24) hours after service of such notice upon the Contractor, an arrangement satisfactory to the Owner has not been made by the Contractor for continuance of the Work, the Owner may terminate the Contract.

C. Once a Contractor is declared in default, the surety shall assume the Contractor's place in all respects and shall be paid by the Owner all monies, if any, due the Contractor at the time of such notice to discontinue, or any monies thereafter that may become due the Contractor in accordance with the terms of the Contract.

D. If the Contractor fails to make arrangements satisfactory to the Owner within ten (10) days after service to the Contractor of a notice to discontinue Work, and in the case where a Payment Bond and a Performance Bond are in effect, the surety has not exercised its option, then without further notice to the Contractor or the surety, the Owner may terminate the Contract and shall have the power to complete the Work herein described as it may determine. In such a case, the Owner shall have the right to take possession of and use any of the materials, plant, tools, equipment, supplies and property of any kind provided by the Contractor for the purpose of this Work.

E. The Owner will charge the expense of completing the Work to the Contractor and will deduct such expenses from monies due, or which at any time thereafter may become due, to the Contractor. If such expenses are more than the sum that would otherwise have been payable under the Contract, then the Contractor shall pay the amount of such excess to the Owner upon notice of the expenses from the Owner. The Owner shall not be required to obtain the lowest price for completing the Work under the Contract, but may make such expenditures that, in its sole judgment, shall best accomplish such completion. The Owner will, however, make reasonable efforts to mitigate the excess costs of completing the Work.

F. The Contract Documents shall in no way limit the Owner's right to all remedies for nonperformance provided under law or in equity, except as specifically set forth herein. In the event of termination for nonperformance, the Contractor shall immediately surrender all Work records to the Owner. In such a case, the Owner may offset any money owed to the Contractor against any liabilities resulting from the Contractor's nonperformance.

G. The Owner has no responsibility whatsoever to issue notices of any kind, including but not limited to deficient performance letters and scorecards, to the Contractor regarding its performance prior to default by Contractor for performance related issues.

H. The Owner shall have no liability to the Contractor for termination costs arising out of the Contract, or any of the Contractor's subcontracts, as a result of termination for default.

SECTION 3.19: MISCELLANEOUS TERMS & CONDITIONS

3.19.1 Independent Contractor

A. This Agreement does not create an employer/employee relationship between the parties. The parties agree and intend that the Contractor is a separate and independent enterprise from the Owner. This Agreement shall not be construed as creating any joint employment relationship between the Contractor and the Owner and the Owner will not be liable for any obligation incurred by the Contractor, including but not limited to unpaid minimum wages and/or overtime, or any other obligation of the Contractor, whether arising under state or federal law, or contract, to Contractor’s employees, subcontractors, or subvendors.

B. Contractor undertakes performance of the Services as an independent contractor and shall be wholly responsible for the methods of performance.

C. The Contractor shall not pledge the Owner's credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness and shall have no right to speak for or bind the Owner in any manner.

D. Contractor further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Agreement.

3.19.2 Authority to Practice, Compliance with Laws, Public Records, and Trade Secrets

A. The Contractor hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct its business, and that it will at all times conduct its business activities in a reputable manner.

B. In performing the Services, the Contractor shall comply with all applicable regulatory requirements, including federal, state, special district, and local laws, rules, regulations, orders, codes, criteria, and standards.

C. Public Records. The parties acknowledge and agree that the Owner is a public agency subject to Chapter 119, Florida Statutes. To the extent the Contractor is a company acting on behalf of the Owner pursuant to Section 119.0701, Florida Statutes, the Contractor must comply with all public records laws in accordance with Chapter 119, Florida Statutes. In accordance with Chapter 119, Florida Statutes, the Contractor agrees to:

(1) Keep and maintain all records that ordinarily and necessarily would be required by the Owner to perform the services under this Agreement.

(2) Upon request from the Owner, provide the Owner with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the costs provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

(3) Ensure that public records that are exempt, or confidential and exempt, from public records disclosures are not disclosed as except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Contractor does not transfer the records to the Owner.

(4) Upon completion of the services under this Agreement, at no cost, either transfer to the Owner all public records in the Contractor's possession or keep and maintain public records required by the Owner to perform the services. If the Contractor transfers all public records to the Owner upon completion of the services, the Contractor must destroy any duplicate public records that are exempt, or confidential and exempt, from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the services under this Agreement, the Contractor must meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Owner,

upon request from the Owner, in a format that is compatible with the information technology systems of the Owner.

(5) IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE OWNER'S CUSTODIAN OF PUBLIC RECORDS AT: scamacho@cityofwauchula.com **or 863-773-3535.**

If the Contractor does not comply with the provisions of this section, the City will enforce the Agreement provisions in accordance herewith and may unilaterally cancel this Agreement in accordance with Florida law.

D. Trade Secrets and Proprietary Confidential Business Information. Documents submitted by Contractor which it contends constitute trade secrets as defined in Sections 812.081 and 688.002, Florida Statutes, or confidential and propriety business information when held by the Owner as a utility owner, consistent with Section 119.0713(5), Florida Statutes, and which are clearly marked or stamped as confidential by the Contractor at the time of submission to the Owner, will not be subject to public access. However, should a requestor of public records challenge Contractor's claim of trade secret or confidential and proprietary business information, within five (5) calendar days of such challenge, Contractor must provide a separate written affidavit that includes an indemnification and release guarantee, as approved by the Owner's Attorney or designee, to the Owner to support its claim that the alleged trade secrets or proprietary and confidential business information actually constitutes same as defined by law. Contractor must demonstrate the need for confidentiality of the documentation by showing a business advantage or opportunity to obtain an advantage would be gained if the documentation were released. Otherwise, Contractor is required to timely seek a protective order in the Circuit Court of Hardee County to prevent the Owner's release of the requested records.

E. Drug Free Workplace. Contractor shall comply with the applicable provisions of the Drug-Free Work Place Act of 1988 (Public Law 100-690, Title V, Subtitle D; 41 USC § 701 et seq.) and maintain a drug-free work environment; and the final rule, government-wide requirements for drug-free work place issued by the Office of Management and Budget to implement the provisions of the Drug-Free Work Place Act of 1988 is incorporated by reference and the Contractor shall comply with the relevant provisions thereof, including any amendments, which are made part of this Agreement.

3.19.3 Public Entity Crimes, Section 287.133, Fla. Stat.; Scrutinized Companies List/Countries of Concern/Interests of Foreign Countries, Sections 287.135, 215.473, and 287.138, Fla. Stat.; and Anti-Trust Vendor Violator, Section 287.137, Fla. Stat.

A. Pursuant to Section 287.133(2)(a), Florida Statutes, Contractor hereby certifies that neither it nor its affiliate(s) have been placed on the convicted vendor list following a conviction for a public entity crime. If placed on that list, Contractor must notify the Owner immediately and may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

B. Contractor hereby certifies that it: (a) has not been placed on the Scrutinized Companies that Boycott Israel List, nor is engaged in a boycott of Israel; (b) has not been placed on the Scrutinized Companies with Activities in Sudan List nor the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and (c) has not been engaged in business operations in Cuba or Syria. If Owner determines that Contractor has falsely certified facts under this Paragraph or if Contractor is found to have been placed on the Scrutinized Companies Lists or is engaged in a boycott of Israel after the execution of this Agreement, the Owner will have all rights and remedies to terminate this Contract consistent with Section 287.135, Florida Statutes.

C. The Contractor has a continuous duty to disclose to the Owner if the Contractor or any of its affiliates, as defined by section 287.137(1), Fla. Stat., are placed on the Antitrust Violator Vendor List. Pursuant to section 287.137, Fla. Stat., “A person or an affiliate who has been placed on the antitrust violator vendor list following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply for any new contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply for a new contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on new leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a new contract with a public entity; and may not transact new business with a public entity.”

3.19.4 Ambiguous Contract Provisions

A. The parties agree that this Contract has been the subject of meaningful analysis and/or discussions of the specifications, terms and conditions contained in this Contract. Therefore, doubtful or ambiguous provisions, if any, contained in this Contract will not be construed against the party who physically prepared this Contract. The rule commonly known as "Fortius Contra Proferentem" will not be applied to this Contract or any interpretation thereof.

3.19.5 Amendments

A. This Contract may not be altered or amended except in writing, signed by the Owner and the Contractor, or each of their duly authorized representatives.

3.19.6 Choice of Law, Venue, Waiver of Jury Trial, and Attorney's Fees

A. This Contract, and the rights and duties of the parties arising from or relating to this Contract or its subject matter, shall be construed in accordance with the laws of the State of Florida and the ordinances of the City of Wauchula without regard to its conflicts of law provisions. Each of the parties irrevocably submits to the exclusive jurisdiction of the courts of Hardee County, Florida, and further agree that the venue for any legal action brought by or filed against the Owner relating to any matter arising under this Contract shall be exclusively in that state or federal court, sitting in Hardee County, Florida that has jurisdiction over such legal actions.

B. **WAIVER OF JURY TRIAL. BY ENTERING INTO THIS AGREEMENT, THE CONTRACTOR AND THE OWNER HEREBY EXPRESSLY WAIVE ANY RIGHTS THEY MAY HAVE TO A TRIAL BY JURY IN ANY LITIGATION ARISING OUT OF OR RELATED TO THIS AGREEMENT**.

C. If any action or other proceeding is brought for the enforcement of this Agreement or due to any uncured dispute, breach, default, or misrepresentation in connection with any of the provisions of this Agreement, or to interpret this Agreement, the prevailing Party shall be entitled to recover from the other Party reasonable attorney's fees and other costs incurred in the prosecution of the action or proceeding

3.19.7 Conflict of Interest

A. This Contract is subject to Chapter 112, Florida Statutes, the Conflict of Interest Procedures for State Funded Grant Programs, and ARPA. Accordingly, Contractor acknowledges and agrees that:

(1) No member, officer, or employee of the Contractor or the City, during that person's tenure or for a period of two (2) years thereafter, shall have any interest, direct or indirect, in this Agreement or the proceeds thereof.

(2) Contractor shall adhere to the Conflict of Interest Procedures for State Funded Grant Programs as set forth in FDOT Topic No. 375-030-006, https://pdl.fdot.gov/api/procedures/downloadProcedure/375-030-006.

B. Restrictions on Lobbying. Contractor shall comply with the restrictions on lobbying set forth in 31 C.F.R. Part 21.

C. Debarment and Suspension. This Agreement is a covered transaction for purposes of 2 C.F.R. Part 180. Contractor certifies that it is not listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB Guidelines at 2. C.F.R. Part 180, “Debarment and Suspension.” Contractor shall comply with OMB Guidelines on Debarment and Suspension (nonprocurement), 2 C.F.R. Part 180, including the requirement to include a term or condition in all lower tier covered transactions (subcontracts as described in 2 C.F.R. Part 180, subpart B) that the subcontract is subject to 2 C.F.R. Part 180 and the U.S. Treasury’s implementing regulations at 31 C.F.R. Part 19.

3.19.8 Cumulative Remedies

A. Except as otherwise expressly provided in this Contract, all remedies provided for in this Contract shall be cumulative and in addition to and not in lieu of any other remedies available to either party at law, in equity or otherwise.

3.19.9 Entire Agreement

A. This Contract contains all of the understandings and agreements of the parties hereto in respect of the subject matter hereof as of the Effective Date of the Contract. Any and all prior understandings and agreements, expressed or implied, between the parties hereto in respect of the subject matter hereof shall be superseded hereby. Parol or extrinsic evidence will not be used to vary or contradict the express terms of this Contract.

B. The Contract Documents are complementary; what is called for by one is binding as if called for by all. The Contractor shall, upon discovery, inform the Owner in writing of any conflict, error or discrepancy in the Contract Documents. Should the Contractor proceed with the Work prior to written resolution of the error or conflict by the Owner, all Work done is at the sole risk of the Contractor.

3.19.10 Expanded Definitions

A. Unless otherwise specified, words importing the singular include the plural and vice versa and words importing gender include all genders. The term "including" means "including without limitation", and the terms "include", "includes" and "included" have similar meanings. Any reference in this Contract to any other agreement is deemed to include a reference to that other agreement, as amended, supplemented or restated from time to time. Any reference in the Contract to "all applicable laws, rules and regulations" means all federal, state and local laws, rules, regulations, ordinances, statutes, codes and practices.

3.19.11 Force Majeure

A. No party shall be liable for any default or delay in the performance of its obligations under this Contract due to an act of God or other event to the extent that: (a) the non-performing party is without fault in causing such default or delay; (b) such default or delay could not have been prevented by reasonable precautions; and (c) such default or delay could not have been reasonably circumvented by the non-performing party through the use of alternate sources, work-around plans or other means. Such causes include, but are not limited to: act of civil or military authority (including but not limited to courts or administrative agencies); acts of God; war; terrorist attacks; riot; insurrection; inability of the Owner to secure approval, validation or sale of bonds; inability of the Owner or the Contractor to obtain any required permits, licenses or zoning; blockades; embargoes; sabotage; epidemics; fires; hurricanes, tornados, floods; or strikes.

B. In the event of any delay resulting from such causes, the time for performance of each of the parties hereunder (including the payment of monies if such event actually prevents payment) shall be extended for a period of time reasonably necessary to overcome the effect of such delay, except as provided for elsewhere in the Contract Documents.

C. In the event of any delay or nonperformance resulting from such causes, the party affected shall promptly notify the other in writing of the nature, cause, date of commencement and the anticipated impact of such delay or nonperformance. Such written notice, including Change Orders, shall indicate the extent, if any, to which it is anticipated that any delivery or completion dates will be thereby affected.

3.19.12 Headings

A. The division of this Contract into sections, the insertion of headings and/or index numbers and the provision of a table of contents are for convenience of reference only and are not to affect the construction or interpretation of this Agreement.

3.19.13 Language and Measurements

A. All communication between the Contractor and the Owner, including all documents, notes on drawings, and submissions required under the Contract, will be in the English language. Unless otherwise specified in the Contract, the US System of Measurements shall be used for quantity measurement. All instrumentation and equipment will be calibrated in US System of Measures.

3.19.14 Nonwaiver

A. Failure by either party to insist upon strict performance of any of the provisions of the Contract will not release either party from any of its obligations under the Contract.

3.19.15 Publicity and Advertising

A. The Contractor shall not take any photographs for the purpose of making any announcements or release any information concerning the Contract or the Work to any

member of the public, press or official body unless prior written consent is obtained from the Owner. The Owner is governed by the Florida Public Records Laws therefore all Contract Documents are available for public inspection, subject to certain statutory exemptions as set forth in Chapter 119, *Florida Statutes*. In addition, the Owner is governed by Florida Sunshine Laws and as such, certain meetings are required to be open to the public.

B. Publications Produced with ARPA funds. Any publications produced with funds from this Agreement must display the following language: "This project [is being] [was] supported, in whole or in part, by federal award number [enter project FAIN] awarded to [name of Sub-recipient] by the U.S. Department of the Treasury."

3.19.16 References

A Unless otherwise specified, each reference to a statute, ordinance, law, policy, procedure, process, document, drawing, or other informational material is deemed to be a reference to that item, as amended or supplemented from time to time. All referenced items shall have the enforcement ability as if they are fully incorporated herein.

3.19.17 Relationship of the Parties

A. The Contractor agrees that it shall perform the Work as an independent contractor and that it does not (a) have the power or authority to bind the Owner or to assume or create any obligation or responsibility, express or implied, on the Owner's part or in the Owner's name, except as may be authorized by the Owner under a separate written document, or (b) represent to any person or entity that it has such power or authority except as may be authorized by the Owner under a separate written document.

3.19.18 Severability

A. In the event that any provision of this Contract is found to be unenforceable under applicable law, the parties agree to replace such provision with a substitute provision that most nearly reflects the original intentions of the parties and is enforceable under applicable law, and the remainder of this Contract shall continue in full force and effect.

3.19.19 Subcontracting or Assigning of Contract

A. Each party agrees that it shall not subcontract, assign, delegate, or otherwise dispose of the Contract, the duties to be performed under the Contract, or the monies to become due under the Contract without the other party's prior written consent.

B. The assignment of the Contract will not relieve either of the parties of any of its obligations until such obligations have been assumed in writing by the assignee. If the Contract is assigned by either of the parties, it will be binding upon and will inure to the

benefit of the permitted assignee. The Contractor shall be liable for all acts and omissions of its assignee or its Subcontractor.

C. The Contractor agrees to retain the services of such subcontractors and subconsultants as reasonably required to provide the Work required by this Agreement. All subcontractors and subconsultants will be under contract to the Contractor. The Contractor shall supervise and coordinate all subcontractors and subconsultants and shall be responsible to the Commission for their work.

D. Any subcontractor or subconsultant retained by the Contractor shall be licensed in the State of Florida in the field applicable to such subcontractor or subconsultant's scope of work.

E. The Contractor's choice of subcontractors must be approved by the Owner. While the Owner shall have the right to approve or reject each sub-consultant, such approval shall not be unreasonably withheld.

F. In no event will the Contractor subcontract portions of the Work under this Agreement without the approval of the Owner. The Owner's approval of any subcontractor or subconsultant will not relieve the Contractor of its responsibility for the acts and omissions of such subcontractors or subconsultants. Any subcontract shall include, among other appropriate provisions, those provisions of this Agreement that by its terms are required to be provided in the subcontract agreement.

G. The Owner may reasonably request that the Contractor contract with additional subcontractors or subconsultants in order to adequately perform the Work on the Project.

3.19.20 Survival

A. The obligations of the Owner and the Contractor under this Contract that are not, by the express terms of this Contract, fully to be performed during the Term, shall survive the termination of this Contract for any reason.

3.19.21 Third Party Agreements

A. Unless otherwise agreed in writing by the Owner, the Owner shall have no obligation to enter into any third party agreements under this Contract. Such third party agreements shall include, but not be limited to: joint check agreements, and revocable or irrevocable letters of direction with sureties. In the event the Owner agrees to execute any such agreement(s), then such agreement(s) shall incorporate additional language as required by the Owner.

3.19.22 Time and Date

A. Unless otherwise specified, references to time of day or date mean the local time or date in Wauchula, Florida. If under this Contract any payment or calculation is to be made, or any other action is to be taken, on or as of a day that is not a regular business day for the Owner, that payment or calculation is to be made, and that other action is to be taken, as applicable, on or as of the next day that is a regular business day. Where reference is made to day or days, it means calendar days. Where reference is made to workday, workdays, business day, or business days, it means regular working days for the Owner.

3.19.23 Waiver of Claims

A. A delay or omission by the Owner hereto to exercise any right or power under this Contract shall not be construed to be a waiver thereof. A waiver by the Owner under this Contract shall not be effective unless it is in writing and signed by the party granting the waiver. A waiver by a party of a right under, or breach of, this Contract shall not be construed to operate as a waiver of any other or successive rights under, or breaches of, this Contract.

B. The Contractor's obligations to perform and complete the Work in accordance with the Contract shall be absolute. None of the following will constitute a waiver of any of the Owner's rights under the Contract: approval or payment of any progress payments or any other payments, including final payment; issuance of the Certificate of Substantial Completion or Certificate of Contract Completion; any use or occupancy of the Work by the Owner; nor any correction of faulty or defective work by the Owner.

[END OF SECTION]

DIVISION 4:
SUPPLEMENTAL CONDITIONS

a. The Subrecipient will comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964, the regulations of the U.S. Department of Transportation issued thereunder, and the assurance by the Subrecipient pursuant thereto. The Subrecipient shall include the attached **Exhibit "C" of ARPA Agreement,** Title VI Assurances in all contracts with consultants and contractors performing work on the Project that ensure compliance with Title VI of the Civil Rights Act of 1964, 49 CFR Part 21, and related statutes and regulations.

b. The Subrecipient will comply with all applicable requirements imposed by the Americans with Disabilities Act (ADA), as amended, the regulations of the Federal Government issued thereunder, and assurance by the Subrecipient pursuant thereto.

DIVISION 5:
FORMS

SECTION 5.1: FORMS TO SUBMIT WITH BID

The following forms must be completed and included in the Bidder's response to this Solicitation. This list represents the forms only and does not include all information and items necessary to be responsive to the Bid Solicitation.

5.1.1 Bid Form

5.1.2 Bid Security

5.1.3 Bidder's Qualifications

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion

5.1.5 Drug-Free Workplace Certificate

5.1.6 Florida Trench Safety Act Acknowledgement

5.1.7 Non-Collusion Affidavit

5.1.8 Public Entity Crimes Statement

5.1.9 Tabulation of Subcontractors and Suppliers

SECTION 5.2: FORMS FOR CONVENIENCE

The following forms are included for convenience in the Bid Documents. The Owner may require additional forms during the performance of the Work:

5.2.1 Certificate of Final Completion Form

5.2.2 Certification of Substantial Completion Form

5.2.3 Change Order Form

5.2.4 Contractor's Application for Payment Form

5.2.5 Field Order Form

5.2.6 Notice of Award Form

5.2.7 Notice to Proceed Form

5.2.8 Payment Bond Form

5.2.9 Performance Bond Form

5.2.10 Work Change Directive Form

5.1.1 Bid Form

PROJECT: City of Wauchula – Tennessee Street Roadway Improvements
FPID No. 447956-1

A. Bid Recipient

1. This Bid is submitted to:

   City of Wauchula
   Attn: City Manager
   126 South 7th Street
   Wauchula, FL 33873

2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Bid Documents to perform all Work as specified or indicated in the Bid Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bid Documents.

B. Bidder's Acknowledgements

1. The Bidder accepts all of the terms and conditions of DIVISION 1: INSTRUCTIONS TO BIDDERS, including without limitation those dealing with the disposition of the Bid Security. The Bid will remain subject to acceptance for 120 days after the Bid Opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

C. Bidder's Representations

1. In submitting this Bid, the Bidder represents that:

   a. The Bidder has received from the Issuing Office a complete set of Bid Documents and other related data identified in the Bid Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____

   b. The Bidder has examined and carefully studied the Bid Documents, Addenda, and the other related data identified in the Bidding Documents, and provided the information to Subcontractors and Suppliers who have provided quotations to the Bidder for the Work.

c. The Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

d. The Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

e. The Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS, and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS.

f. The Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplemental examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by the Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bid Documents to be employee by the Bidder, and safety precautions and programs incident thereto.

g. The Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bid Documents

h. The Bidder is aware of the general nature of the Work to be performed by the Owner and others at the Site that relates to the Work as indicated in the Bid Documents.

i. The Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bid Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bid Documents.

j. The Bidder has given the Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that the Bidder has discovered in the Bid Documents, and the written resolution thereof by the Engineer is acceptable to the Bidder.

k. The Bid Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

l. Bidder certifies Bidder's authority and qualification to do business in the state where the Project is located, that the Bidder is a state-certified Contractor in good standing and holds current registration with the Florida Construction Industry Licensing Board of the Florida Department of Professional Regulation, that the type of license is in a class that authorizes the Bidder to perform the general nature of the construction to be performed on this project, and that the Bidder's State Contractor's license number for the state of the project is shown on the Bid Form.

m. Bidder certifies to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-made. To support the efforts, any non American-made equipment proposed must be accompanied by proof of good-faith efforts to utilize American-made equipment such as written quotes, solicitations, advertisements, etc.

D. Bidder's Certification

1. Bidder certifies that:

a. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

b. The Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

c. The Bidder has not solicited or induced any individual or entity to refrain from bidding; and

d. The Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph:

i. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

ii. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of the Owner, (b) to establish Bid Prices at artificial non-competitive levels, or (c) to deprive the Owner of the benefits of free and open competition;

iii. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Owner, a purpose of which is to establish Bid Prices at artificial, non-competitive levels; and

iv. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

E. Basis of Bid

1. The Bidder has reviewed DIVISION 6: TECHNICAL SPECIFICATIONS; and will complete the Work in accordance with the Contract Documents for the following price(s):

A. BASE BID

BID FORM
TENNESSEE STREET ROADWAY IMPROVEMENTS
FPID NO. 447956-1

BID ITEM	*DESCRIPTION*	*UNIT*	*QTY.*	*BID UNIT PRICE*	*TOTAL BID PRICE*
101-1	*MOBILIZATION*	*LS*	*1*		
102-1	*MAINTENANCE OF TRAFFIC*	*LS*	*1*		
104-10-3	*SEDIMENT BARRIER*	*LF*	*2182*		
104-18	*INLET PROTECTION SYSTEM*	*EA*	*2*		
110-1-1	*CLEARING AND GRUBBING*	*AC*	*1*		
110-4-10	*REMOVAL OF EXISTING CONCRETE*	*SY*	*13*		
160-4	*TYPE B STABILIZATION*	*SY*	*3362*		
285-706	*OPTIONAL BASE, BASE GROUP 6*	*SY*	*3209*		
334-1-11	*SUPERPAVE ASPHALTIC CONC., TRAFFIC C*	*TN*	*337*		
522-1	*CONCRETE SIDEWALK, 4" THICK*	*SY*	*13*		
527-2	*DETECTABLE WARNING*	*SF*	*16*		
570-1-2	*PERFORMANCE TURF, SOD*	*SY*	*483*		
700-1-11	*SINGLE POST SIGN*	*EA*	*7*		
711-11-123	*THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"*	*LF*	*40*		
711-11-125	*THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"*	*LF*	*84*		
711-15-201	*THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"*	*LF*	*100*		

TOTAL BASE BID:

_____ ($_____)
(words) (numerals)

The Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

F. Time of Completion

1. The Bidder agrees that the Work will be substantially complete within **180** calendar days after the issuance of the Notice to Proceed, and completed and ready for final payment in accordance with the Contract Documents within **210** calendar days after the date when the Contract Time commences to run.

2. The Bidder accepts the provisions of the Agreement as to liquidated damages.

G. Attachments to This Bid

1. The following documents are submitted with and made a part of this Bid:

   a. DIVISION 5: FORMS – Bid Form

   d. DIVISION 5: FORMS – Bid Security

   c. DIVISION 5: FORMS – Bidder's Qualifications

   d. DIVISION 5: FORMS – Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years

   e. DIVISION 5: FORMS – Drug-Free Workplace Certificate

   f. DIVISION 5: FORMS – Florida Trench Safety Act Acknowledgement

   g. DIVISION 5: FORMS – Non-Collusion Affidavit

   h. DIVISION 5: FORMS – Public Entity Crimes Statement

   i. DIVISION 5: FORMS – Tabulation of Subcontractors and Suppliers

   j. Evidence of authority to do business in the State of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;

      Contractor's License No.: _____.

H. Defined Terms

1. The terms used in this Bid with initial capital letters have the meanings stated in DIVISION 1: INSTRUCTIONS TO BIDDERS and DIVISION 4: SUPPLEMENTAL CONDITIONS.

I. Bid Submittal

1. This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)

(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____

By: _____ (SEAL)

(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

State Contract License No. _____

A Corporation

Corporation Name: _____

_____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability):_____

By: _____

(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Corporate Seal)

Attest _____

(Signature of Corporate Secretary)

Date of Qualification to do business in Florida is _____/_____/_____.

State Contractor License No. _____.

A Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____(SEAL)

By: _____

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address _____

_____

Phone No. _____ Fax No. _____

E-mail _____

SUBMITTED on _____, 20_____.

State Contractor License No. _____.

5.1.2 Bid Security Form

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID

Bid Due Date:

Project (Brief Description Including Location):

BOND

Bond Number:

Date (Not later than Bid due date):

Penal sum _____ _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER	**SURETY**
_____ (Seal)	_____ (Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature and Title	Signature and Title (Attach Power of Attorney)
Attest: _____	Attest: _____
Signature and Title	Signature and Title

Note: Above addresses are to be used for giving required notice.

A. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to the Owner upon default of the Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.

B. Default of Bidder shall occur upon the failure of the Bidder to deliver within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents.

C. This obligation shall be null and void if:

   i. The Owner accepts the Bidder's Bid and the Bidder delivers within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents, or

   ii. All Bids are rejected by the Owner, or

   iii. The Owner fails to issue a Notice of Award to the Bidder within the time specified in the Bid Documents (or any extension thereof agreed to in writing by the Bidder and, if applicable, consented to by Surety when required by Paragraph E hereof).

D. Payment under this Bond will be due and payable upon default by the Bidder and within 30 calendar days after receipt by the Bidder and the Surety of written notice of default from the Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

E. The Surety waives notice of any and all defenses based on or arising out of any time extension to issue the Notice of Award agreed to in writing by the Owner and the Bidder, provided that the total time for issuing the Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid Due Date without the Surety's written consent.

F. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph D above is received by the Bidder and the Surety and in no case later than one year after the Bid Due Date.

G. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

H. Notices required hereunder shall be in writing and sent to the Bidder and the Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

I. The Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

J. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

K. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

5.1.3 Bidder's Qualifications

The Bidder warrants the truth and accuracy of all statements and answers herein contained.
(Include additional sheets if necessary.)

THIS QUESTIONNAIRE MUST BE COMPLETED AND SUBMITTED WITH YOUR BID.

A. LICENSE # and COMPANY'S NAME: _____

B. CO. PHYSICAL ADDRESS: _____

C. TELEPHONE NUMBER: (_____) _____ D. FAX: (_____) _____

E. Bidding as an; individual:_____; a partnership:___; a corporation:___; a joint venture:___.

F. If a partnership: list names and addresses of partners; if a corporation: list names of officers, directors, shareholders, and state of incorporation; if joint venture: list names and addresses of venturers and the same if any venturer is a corporation for each such corporation, partnership, or joint venture:

_____

_____

G. Your organization has been in business (under this firm's name) as a _____

_____for how many years? _____

H. Describe and give the date and owner of the last three government projects you've completed which are similar in cost, type, size, and nature as the one proposed (for a public entity). Include contact name and phone number:

_____

_____

I. Have you ever been awarded additional time to complete work awarded to you during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.

_____

_____

J. Have you ever been assessed liquidated damages under a contract during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.

_____

_____

K. Have you ever failed to complete work awarded to you? If so, state when, where (contact name, address, phone number) and why?

L. Have you ever been debarred or prohibited from bidding on a governmental entity's construction project? If yes, name the entity and describe the circumstances:

M. Name three individuals, governmental entities, or corporations for which you have performed similar work and to which you refer. Include contact name and phone number:

N. What specific steps have you taken to examine the physical conditions at or contiguous to the site, including but not limited to, the location of existing underground facilities?

O. What specific physical conditions, including but not limited to, the location of existing underground facilities have you found which will, in any manner, affect cost, progress, performance, or finishing of the work?

P. Will you subcontract any part of this Work? If so, describe which major portion(s):

Q. If any, list (with contract amount) MBE/WBE's to be utilized:

R. What equipment do you own to accomplish this Work?

S. What equipment will you purchase/rent for the Work? (specify which)

_____

_____

T. List the following in connection with the Surety which is providing the Bond(s):

Surety's Name: _____

Surety's Address: _____

Name, address and phone number of Surety's resident agent for service of process in Florida:

_____

_____

_____

Phone: (___) _____

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion – Last Three (3) Years

Project	Name and Address of Owner or Engineer	Name and Phone Number of Owner or Engineer Representative	Date of Contract	Amount	Status

5.1.5 Drug-Free Workplace Certificate

I, the undersigned, in accordance with Section 287.087, *Florida Statutes* hereby certify that

_____

(Print or Type Name of Firm)

☐ Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace named above and specifying actions that will be taken against violations of such prohibition.

☐ Informs employees about the dangers of drug abuse in the workplace; the firm's policy of maintaining a drug-free working environment and available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug-use violations.

☐ Gives each employee engaged in providing commodities or contractual services that are under bid or proposal a copy of the statement specified above.

☐ Notifies the employees that as a condition of working on the commodities or contractual services under bid or proposal, the employees will abode by the terms of the statement and will notify the employer of any conviction of or plea of guilty or nolo contendere to any violation of Chamber 1893 or any controlled substance law of the State of Florida or the United States for a violation occurring in the workplace, no later than 5 days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

☐ Imposes a sanction on or requires the satisfactory participation in a drug-abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

☐ Makes a good faith effort to continue to maintain a drug-free workplace through the implementation of the drug-free workplace program.

"As a person authorized to sign this statement, I certify that the business, firm, or corporation named above complies fully with the requirements set forth herein."

_____ _____

Authorized Signature Date Signed

State of: _____

County of: _____

Sworn to and subscribed before me this _____ day of _____, 20 _____.

Personally known _____ or Produced Identification _____

Specify Type of Identification

_____

Signature of Notary

My Commission Expires: _____

5.1.6 Certificate of Compliance with the Florida Trench Safety Act

The Bidder acknowledges sole responsibility for complying with the Florida Trench Safety Act (Act) and Occupational Safety and Health Administration's excavation safety standard 29 CFR 1926.650 (Subpart P as amended). The Bidder further acknowledges that included in the various items of the Proposal and in the Total Base Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) effective October 1, 1990. The Bidder further identifies the costs to be summarized below:

	Trench Safety Method (Description)	Units of Measure (LF, SY)	Unit (Quantity)	Extended Cost	Unit Extended Cost
A.	_____	_____	_____	_____	_____
B.	_____	_____	_____	_____	_____
C.	_____	_____	_____	_____	_____
D.	_____	_____	_____	_____	_____
				Total:	

Failure to complete the above may result in the Bid being declared non-responsive. The costs indicated above are provided to comply with the Act and shall not constitute grounds for any additional compensation to that listed for the separate line items of the Proposal Form.

By: _____

Bidder: _____

Date: _____

Authorized Signature: _____

State of: _____

County of: _____

Sworn to and subscribed before me this _____ day of _____, 20 _____.

Personally known _____ or Produced Identification _____
Specify Type of Identification

_____
Signature of Notary

My Commission Expires: _____

5.1.7 Non-Collusion Affidavit of Prime Bidder

State of _____

County of _____

_____, being first duly sworn, deposes and says that:
Name

1. He/She is _____ of _____, the
   Title Company
   Bidder that has submitted the attached bid;

2. He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

3. Such Bid is genuine and is not a collusive or sham Bid;

4. Neither the said Bidder not any of his/her officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or has refrained from bidding in connection with such Contract; nor in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or if any other Bidder; not has fixed any overhead, profit or cost element of the Bid Price, or the Bid Price of any other Bidder; not has secured through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the City of Wauchula, Florida or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____
Name

_____
Title

Subscribed and sworn to before me this _____ day of _____, 20_____

_____
Signature

_____
Title

My commission expires _____

5.1.8 Sworn Statement Pursuant to Section 287.133(3)(A), *Florida Statues*, on Public Entity Crimes

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to the City of Wauchula, Florida by

   _____
   (print individual's name and title)

   for _____
   (print name of entity submitting sworn statement)

   whose business address is _____

   _____

   And (if applicable) its Federal Employer Identification Number (FEIN) is _____.
   (If the entity has no FEIN, include the Social Security of the individual signing this sworn statement: _
   _____.)

2. I understand that a "public entity crime" as defined in Section 287.133 (1)(g), *Florida Statues* means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision of any other state or of the United States and involving anti-trust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

3. I understand that "convicted" or "conviction" as defined in Section 287.133(1)(b), *Florida Statutes*, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or stated trial court of record relating to charges brought by indictment or information after July 1. 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that "affiliate" as defined in Section 287.133(1)(a), *Florida Statutes*, means:

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters in to a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5. I understand that a "person" as defined in Section 287.133 (1)(e), *Florida Statutes*, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (indicate which statement applies).

___ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, *FLORIDA STATUES*, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

_____
(Signature)

Sworn to and subscribed before me this _____ day of _____, 20_____.

Personally known _____

OR Produced Indentification_____ Notary Public-State of _____

_____ My commission expires_____
(Type of Indentification)

_____
(Printed, Typed or Stamped
Commissioned Name of Notary Public)

5.1.9 Tabulation of Subcontractors and Suppliers

The Undersigned states that the following is a full and complete list of the proposed Subcontractors and Suppliers on this Project and the class of work to be performed by each and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	MBE/WBE STATUS	CLASS OF WORK OR MATERIAL
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

BIDDER: _____

By: _____

Name: _____

Title: _____

Date: _____

5.2.1 Certificate of Final Completion

Project:	Owner: City of Wauchula	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:

This Certificate of Final Completion applies to:

☐ All Work under the Contract Documents: ☐ The following specified portions:

Date of Final Completion

The Work to which this Certificate applies has been inspected by authorized representatives of the Owner, the Contractor and the Engineer, and found to be complete and final. The Date of Final Completion of the Project or portion thereof designated above is hereby declared.

Executed by Engineer Date

Accepted by Contractor Date

Accepted by Owner Date

5.2.2 Certificate of Substantial Completion

Project:	Owner: City of Wauchula	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:

This [tentative] [definitive] Certificate of Substantial Completion applies to:
☐ All Work under the Contract Documents: ☐ The following specified portions:

_____

_____

_____
Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby declared and is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

A [tentative] [revised tentative] [definitive] list of items to be completed or corrected, is attached hereto. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as provided in the Contract Documents except as amended as follows:

☐ Amended Responsibilities ☐ Not Amended

Owner's Amended Responsibilities:

_____

_____

Contractor's Amended Responsibilities:

_____

_____

The following documents are attached to and made part of this Certificate:

_____

_____

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

_____ _____
Executed by Engineer Date

_____ _____
Accepted by Contractor Date

_____ _____
Accepted by Owner Date

5.2.3 Change Order Form

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

The Contract Documents are modified as follows upon execution of this Change Order:
Description:

_____

_____

Attachments: (List documents supporting change):

_____

_____

CHANGE IN CONTRACT PRICE:

Original Contract Price:

$ _____

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____

$ _____

Contract Price prior to this Change Order:

$ _____

[Increase] [Decrease] of this Change Order:

$ _____

Contract Price incorporating this Change Order:

$ _____

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☐ Calendar days
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____
Substantial completion (days): _____
Ready for final payment (days): _____

Contract Times prior to this Change Order:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

Increase] [Decrease] of this Change Order:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

Contract Times with all approved Change Orders:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

RECOMMENDED:	**ACCEPTED:**	**ACCEPTED:**
By: _____	By: _____	By: _____
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date: _____	Date: _____	Date: _____

Approved by Funding Agency (if applicable): _____ Date: _____

5.2.4 Contractor's Application for Payment

Application for Payment No:._____

	Application Period:	Application Date:
To (Owner): City of Wauchula	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

APPLICATION FOR PAYMENT

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
TOTALS		
NET CHANGE BY CHANGE ORDERS		

CONTRACTOR'S CERTIFICATION

The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By:	Date:

1. ORIGINAL CONTRACT PRICE ..... $_____
2. Net change by Change Orders ..... $_____
3. CURRENT CONTRACT PRICE (Line 1 ± 2) ..... $_____
4. TOTAL COMPLETED AND STORED TO DATE
   (Column F on Progress Estimate) ..... $_____
5. RETAINAGE:
   a. _____ % x $_____ Work Completed..... $_____
   b. _____ % x $_____ Stored Material ..... $_____
   c. Total Retainage (Line 5a + Line 5b) ..... $_____
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c) ..... $_____
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application) ..... $_____
8. AMOUNT DUE THIS APPLICATION..... $_____
9. BALANCE TO FINISH, PLUS RETAINAGE
   (Column G on Progress Estimate + Line 5 above) ..... $_____

Payment of: $_____ _____
(Line 8 or other - attach explanation of other amount)

is recommended by: _____ _____
(Engineer) (Date)

Payment of: $_____
(Line 8 or other - attach explanation of other amount)

is approved by: _____ _____
(Owner) (Date)

Approved by: _____ Funding Agency (if applicable) (Date)

_____

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)
	Totals							

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)

	Totals							

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item			C	D		Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)
Specification Section No.	Description	Scheduled Value	From Previous Application (C + D)	This Period	Materials Presently Stored (not in C or D)			

	Totals							

5.2.5 Field Order Form

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

Attention:
You are hereby directed to promptly execute this Field Order for minor changes in the Work without changes in Contract Price or Contract Times. If you consider that a change in Contract Price or Contract Times is required, please notify the Engineer immediately and before proceeding with this Work.

Reference: _____ _____
(Specification Section(s)) (Drawing(s) / Detail(s))

Description:

Attachments:

Engineer:	Date:
Receipt Acknowledged by (Contractor):	Date:

Copy to Owner

5.2.6 Notice of Award

Dated _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

Bidder:

Bidder's Address: (send Certified Mail, Return Receipt Requested)

You are notified that your Bid dated _____ for the above Contract has been considered. You are the Successful Bidder and are awarded a Contract for _____

(Indicate total Work, alternates or sections or Work awarded.)

The Contract Price of your Contract is _____ Dollars ($_____)

_____ copies of each of the proposed Contract Documents (except Drawings) accompany this Notice of Award.

_____ sets of the Drawings will be delivered separately or otherwise made available to you immediately.

You must comply with the following conditions precedent within five (5) days of the date you receive this Notice of Award.

1. Deliver to the Owner fully executed counterparts of the Contract Documents.
2. Deliver with the executed Contract Documents the Contract Security [Bonds].
3. Other conditions precedent:

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award and declare your Bid security forfeited.

Within ten days after you comply with the above conditions, Owner will return to you one fully executed counterpart of the Contract Documents.

City of Wauchula
Owner

By: _____
Authorized Signature

_____
Title

Copy to Engineer

5.2.7 Notice to Proceed

Dated _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**
Contractor:		
Contractor's Address: (send Certified Mail, Return Receipt Requested)		

You are notified that the Contract Times under the above contract will commence to run on _____. On or before that date, you are to start performing your obligations under the Contract Documents. The date of Substantial completion is _____ and the date of readiness for final payment is _____ _____ [(or) the number of days to achieve Substantial Completion is _____ and the number of days to achieve readiness for final payment is_____].

Before you may start any Work at the Site, you and Owner must each deliver to the other (with copies to Engineer and other identified additional insureds) certificates of insurance which each is required to purchase and maintain in accordance with the Contract Documents.

Also, before you may start any Work at the Site, you must [add other requirements]:

_____

_____

_____

_____ _____

Contractor Owner

Received by:_____ Given By: _____

Authorized Signature

_____ _____

Title Title

_____ _____

Date Date

Copy to Engineer

Prepared by the Engineers' Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specifications Institute
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5.2.8 Payment Bond

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

CONTRACT
Date:
Amount:
Description (Name and Location):

BOND
Bond Number:
Date (Not earlier than Contract Date):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL
Company:

Signature: _____(Seal)
Name and Title:

SURETY

_____(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

Attest: _____
Signature and Title

CONTRACTOR AS PRINCIPAL SURETY
Company:
Signature: _____(Seal)
Name and Title:

_____(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

Attest: _____
Signature and Title:

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.
/40126/1#52913955 v1

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to Owner, this obligation shall be null and void if Contractor:
   2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

   2.2. Defends, indemnifies, and holds harmless Owner from all claims, demands, liens, or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided Owner has promptly notified Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no Owner Default.

3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.

4. Surety shall have no obligation to Claimants under this Bond until:

   4.1. Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

   4.2. Claimants who do not have a direct contract with Contractor:

      1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and

      2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor had indicated the claim will be paid directly or indirectly; and

      3. Not having been paid within the above 30 days, have sent a written notice to Surety and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.

5. If a notice by a Claimant required by Paragraph 4 is provided by Owner to Contractor or to Surety, that is sufficient compliance.

6. When a Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at Surety's expense take the following actions:

   6.1. Send an answer to that Claimant, with a copy to Owner, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

   6.2. Pay or arrange for payment of any undisputed amounts.

7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by Owner to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and Owner accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under this Bond, subject to Owner's priority to use the funds for the completion of the Work.

9. Surety shall not be liable to Owner, Claimants, or others for obligations of Contractor that are unrelated to the Contract. Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, Owner, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. DEFINITIONS

   15.1. Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and Contractor's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

   15.2. Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.

   15.3. Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

FOR INFORMATION ONLY (*Name, Address and Telephone)*

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.
/40126/1#52913955 v1

Surety Agency or Broker:
Owner's Representative (*Engineer or Other Party*):

5.2.9 Performance Bond

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT
Effective Date of Agreement:
Amount:
Description (*Name and Location*):

BOND
Bond Number:
Date (*Not earlier than Effective Date of Agreement*):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	SURETY
_____(Seal)	_____(Seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint venturers, if necessary.

Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner for the performance of the Contract, which is incorporated herein by reference.

1. If Contractor performs the Contract, Surety and Contractor have no obligation under this Bond, except to participate in conferences as provided in Paragraph 2.1.

2. If there is no Owner Default, Surety's obligation under this Bond shall arise after:
   2.1 Owner has notified Contractor and Surety, at the addresses described in Paragraph 9 below, that Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with Contractor and Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If Owner, Contractor, and Surety agree, Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive Owner's right, if any, subsequently to declare a Contractor Default; and
   2.2 Owner has declared a Contractor Default and formally terminated Contractor's right to complete the Contract. Such Contractor Default shall not be declared earlier than 20 days after Contractor and Surety have received notice as provided in Paragraph 2.1; and
   2.3 Owner has agreed to pay the Balance of the Contract Price to:
      1. Surety in accordance with the terms of the Contract; or
      2. Another contractor selected pursuant to Paragraph 3.3 to perform the Contract.

3. When Owner has satisfied the conditions of Paragraph 2, Surety shall promptly, and at Surety's expense, take one of the following actions:
   3.1 Arrange for Contractor, with consent of Owner, to perform and complete the Contract; or
   3.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
   3.3 Obtain bids or negotiated proposals from qualified contractors acceptable to Owner for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by Owner and contractor selected with Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract, and pay to Owner the amount of damages as described in Paragraph 5 in excess of the Balance of the Contract Price incurred by Owner resulting from Contractor Default; or
   3.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:
      1. After investigation, determine the amount for which it may be liable to Owner and, as soon as practicable after the amount is determined, tender payment therefor to Owner; or
      2. Deny liability in whole or in part and notify Owner citing reasons therefor.

4. If Surety does not proceed as provided in Paragraph 3 with reasonable promptness, Surety shall be deemed to be in default on this Bond 15 days after receipt of an additional written notice from Owner to Surety demanding that Surety perform its obligations under this Bond, and Owner shall be entitled to enforce any remedy available to Owner. If Surety proceeds as provided in Paragraph 3.4, and Owner refuses the payment tendered or Surety has denied liability, in whole or in part, without further notice Owner shall be entitled to enforce any remedy available to Owner.

5. After Owner has terminated Contractor's right to complete the Contract, and if Surety elects to act under Paragraph 3.1, 3.2, or 3.3 above, then the responsibilities of Surety to Owner shall not be greater than those of Contractor under the Contract, and the responsibilities of Owner to Surety shall not be greater than those of Owner under the Contract. To the limit of the amount of this Bond, but subject to commitment by Owner of the Balance of the Contract Price to mitigation of costs and damages on the Contract, Surety is obligated without duplication for:

5.1 The responsibilities of Contractor for correction of defective Work and completion of the Contract;
5.2 Additional legal, design professional, and delay costs resulting from Contractor's Default, and resulting from the actions of or failure to act of Surety under Paragraph 3; and
5.3 Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of Contractor.

6. Surety shall not be liable to Owner or others for obligations of Contractor that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than Owner or its heirs, executors, administrators, or successors.

7. Surety hereby waives notice of any change, including changes of time, to Contract or to related subcontracts, purchase orders, and other obligations.

8. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located, and shall be instituted within two years after Contractor Default or within two years after Contractor ceased working or within two years after Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

9. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the address shown on the signature page.

10. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

11. Definitions.
11.1 Balance of the Contract Price: The total amount payable by Owner to Contractor under the Contract after all proper adjustments have been made, including allowance to Contractor of any amounts received or to be received by Owner in settlement of insurance or other Claims for damages to which Contractor is entitled, reduced by all valid and proper payments made to or on behalf of Contractor under the Contract.
11.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
11.3 Contractor Default: Failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.
11.4 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or otherwise comply with the other terms thereof.

FOR INFORMATION ONLY (*Name, Address and Telephone)* Surety Agency or Broker: Owner's Representative (*Engineer or Other Party*):

5.2.10 Work Change Directive Form

No._____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

You are directed to proceed promptly with the following change(s):

Item No.	Description

Attachments (list documents supporting change):

_____

_____

Purpose for Work Change Directive:

- □ Authorization for Work described herein to proceed on the basis of Cost of the Work due to:
  - □ Nonagreement on pricing of proposed change.
  - □ Necessity to expedite Work described herein prior to agreeing to changes on Contract Price and Contract Time

Estimated change in Contract Price and Contract Times:

Contract Price $_____ (increase/decrease) Contract Time _____ (increase/decrease) days

If the change involves an increase, the estimated amounts are not to be exceeded without further authorization.

Recommended for Approval by Engineer:	Date:
Authorized for Owner by:	Date:
Accepted for Contractor by:	Date:
Approved by Funding Agency (if applicable):	Date:

DIVISION 6:
TECHNICAL SPECIFICATIONS

Refer to Florida Department of Transportation Standard Specifications for Road and Bridge Construction (Latest Edition) for all specifications.

Contract Bidding Documents

ALABAMA STREET ROADWAY IMPROVEMENTS

City of Wauchula
126 South 7th Avenue
Wauchula, Florida 33873

FPID 447957-1-1

Mandatory Pre-Bid Meeting:
Date: XX XX, 2025
Time: XX:XX AM
Location: City of Wauchula Administration Building
126 South 7th Avenue
Wauchula, Florida 33873

Sealed Bids Due:
Date: XX XX, 2025
Time: XX:XX PM
Location: City of Wauchula Administration Building
126 South 7th Avenue
Wauchula, Florida 33873

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DIVISION 1:
INSTRUCTIONS TO BIDDERS

INVITATION FOR BID

Sealed Bids will be received by the City of Wauchula located at 126 South 7th Avenue, Wauchula, Florida 33873, until X:XX PM local time on XX XX, 2025. Bids received after said time will be returned unopened. The Bidder shall be solely responsible for delivery of their Bid. Reliance upon mail or public carriers is at the Bidder's risk.

The principal features of the Work are:
1. ¼ mile of milling and resurfacing on Alabama Street
2. Select demolition and reconstruction of concrete curb and gutter, sidewalk, driveways, and ramps.
3. Striping and signage

The Contract(s) awarded under this Solicitation will be funded by the Florida Department of Transportation using American Rescue Plan Act (ARPA) funds and are subject to requirements listed in the FDOT and ARPA agreements attached.

Plans and specifications are on file for inspection at the City of Wauchula Administration Building located at 126 South 7th Avenue, Wauchula, Florida 33873.

The Bidder is solely responsible for obtaining the Bid Documents. An electronic version of the Bid Documents may be downloaded from the City of Wauchula website at the following https://www.cityofwauchula.gov/

Sealed Bids shall reference the following on the outer envelope:

SEALED BID: BIDDER'S NAME AND ADDRESS
CITY OF WAUCHULA – ALABAMA STREET ROADWAY AND DRAINAGE IMPROVEMENTS – FPID 447957-1

All Bids shall be publicly opened, read aloud and recorded at X:XX PM local time on XX XX, 2025 in the City of Wauchula Administration Building, 126 South 7th Avenue, Wauchula, Florida 33873.

Mandatory Pre-Bid Meeting: All interested Bidders must attend the entire meeting. Bidders not attending the Pre-Bid Meeting will have their Bids returned unopened. The Pre-Bid meeting will be held at XX:XX AM local time on XX XX, 2025 in the City of Wauchula Administration Building, 126 South 7th Avenue, Wauchula, Florida 33873.

Questions: All questions regarding this Invitation for Bid shall be submitted in writing and delivered to Stephanie Camacho, City Clerk, City of Wauchula, 126 South 7th Avenue, Wauchula, FL 33873, or via email: scamacho@cityofwauchula.com.

SECTION 1.1: GENERAL INSTRUCTIONS TO BIDDERS

1.1.1 Defined Terms in the Instructions to Bidders

A. The words and terms defined in DIVISION 3: TERMS AND CONDITIONS are hereby incorporated by reference into this part.

1.1.2 Minimum Qualifications for Eligibility to Bid

A. Receipt of this Solicitation and other Bid and Contract related documents from the Owner or its designated representatives does not constitute the Owner's approval of the Bidder's qualifications.

B. Bidders shall have the following minimum qualifications to be considered eligible to bid in response to this Solicitation. It is the responsibility of the Bidder to ensure and certify that it meets the minimum qualifications. Bidders not meeting all of the following criteria will not have their Bids considered for Award.

1. Bidder shall be a licensed contractor in the State of Florida, in accordance with Chapter 489, *Florida Statutes*.

2. Bidder shall have been in the business of performing projects of the same scope for at least the past five (5) years.

3. Bidder shall demonstrate that it has successfully completed at least three (3) projects of similar scope and scale to the Work described herein, for at least two (2) different Florida government agencies within the past five (5) years. Bidder shall submit names and contact information for each referenced project. Factors the Owner may consider to make a determination of the Bidder's eligibility under this criterion include but are not limited to:

   a. The Bidder's ability to perform work in a satisfactory manner as evidenced by the Bidder's past performance on other projects performed for the Owner, and

   b. The Bidder's past performance of satisfactory work as evidenced by project descriptions submitted for three stated projects as part of the Bid and the Owner's verification of associated references; and

   c. The Bidder's past performance as evidenced by any other information the Owner gathers or obtains during the Bid review process, including but not limited to information included on the Bidder's Qualifications questionnaire.

C. The Bidder certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds and other credentials required by law, Contract or practice to perform the Work. The Bidder also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Bidder shall immediately notify the Owner of the change.

1.1.3 Bid Security

A. Each Bid is to be accompanied by a Bid Security made payable to the Owner in an amount at least equal to five (5) percent of the Bidder's maximum Bid Price and in the form of a Certified Check or Bid Bond. Failure to furnish the required Bid Security will disqualify the Bid.

1.1.4 Minority and Women's Business Enterprise Goals

A. DIVISION 4: SUPPLEMENTAL CONDITIONS states the goals of Minority Business Enterprise (MBE) participation and Women's Business Enterprise (WBE) participation in the Work. The Bidder is expected to fully comply with the requirements for MBE and WBE participation as stated in DIVISION 4: SUPPLEMENTAL CONDITIONS of this document. Failure to comply with these requirements will disqualify the Bid.

1.1.5 Notice of Liquidated Damages

A. In the event a Contract is awarded as a result of this Solicitation, the Contract will be subject to liquidated damages as set forth in DIVISION 3: TERMS AND CONDITIONS.

1.1.6 Florida Trench Safety Act

A. The Bidder shall complete and submit with its Bid the Florida Trench Safety Act Acknowledgment form, in accordance with Section 553.60, *Florida Statutes, et. seq.*, when the Work includes trench excavations that exceed five (5) feet in depth and as written assurance that the Bidder shall comply with all applicable trench safety standards, laws, rules and regulations during performance of any Work awarded from this Solicitation.

1.1.7 Subcontractors

A. The Bidder shall supply with their Bid a list of all Subcontractors and Suppliers that it intends to use for the Work. The Successful Bidder shall not be permitted to use Subcontractors and Suppliers other than those shown in the Bid unless good cause is shown and prior written consent is obtained from the Owner.

B. If the Bidder plans to use a single Subcontractor or Supplier to perform over 50% of the Work, the Bidder shall obtain the Owner's approval prior to the opening of Bids. Failure to obtain the Owner's approval will disqualify the Bid.

C. Bidder's choice of subcontractors or subconsultants must be approved by the Owner. While the Owner shall have the right to approve or reject each subcontractor or subconsultant, such approval shall not be unreasonably withheld.

D. The Bidder may not use as a Subcontractor or Supplier, any Bidders that were rejected in the Bid process due to incomplete status or unqualified Bids.

1.1.8 Payment and Performance Bonds

A. As stated in DIVISION 3: TERMS AND CONDITIONS of the Contract Documents, the successful Bidder shall be required to furnish a Payment Bond and a Performance Bond in accordance with Section 255.05, *Florida Statutes* prior to the start of any Field Work.

1.1.9 Estimated Quantities Provided for Bidding Reference

A. The Bidder understands and agrees that the Owner's estimated Contract amounts shall not obligate the Owner in any way to issue Purchase Orders under the Contract of this amount, or any amount of Work under the Contract. The Owner may, at its sole discretion, issue Purchase Orders under the Contract totaling more or less than the estimated amounts, or may award the Contract, and is under no obligation to issue any Purchase Orders under the Contract. In the event that quantities change after Award, the changes to price and/or scope shall be made in accordance with the terms and conditions stated in the Contract Documents.

B. Any item not shown on the Bid Form, but that is shown in the Drawings or Technical Specifications section, that is required to perform the Work, or that is required as part of a complete and operable system, shall be included in the Bid Price.

1.1.10 Existing Site Conditions & Technical Data

A. Where the Bidder visits sites, no Work or other disturbance is to be performed while at the site without written permission by the Owner in advance of the site visit. The Bidder shall comply with all safety requirements described in the Bid Documents and the Owner may require the Bidder to show proof of a minimum of $1 million of general liability insurance.

B. No reports of Hazardous Materials at the Site are known to the Owner or the Engineer, unless disclosed in the specifications.

C. In the preparation of Drawings and Technical Specifications, the Engineer relied upon the following drawings of physical conditions in or relating to existing surface and subsurface structures (except Underground Facilities) which are at or contiguous to the Site:

1. Topographical Survey provided by D.C. Johnson Associates, Dated 11/18/2022 and revised 10/02/2023.

D. Copies of the reports (and drawings) itemized above that are not included with the Bid Documents may be examined at Kimley-Horn and Associates, Inc. located at 109 South Kentucky Avenue, Lakeland, FL 33801 during regular business hours. These reports (and

drawings) are not part of the Contract Documents but comprise additional “technical data” upon which the Bidder may rely as identified and established.

E. The Bidder is solely responsible for obtaining and verifying all technical data necessary to submit its Bid.

1.1.11 Pre-Bid Clarifications & Addenda

A. All questions regarding the Bid Documents must be submitted to the Procurement Representative identified in the Solicitation no later than ten (10) business days prior to the Bid Opening date. The Bidder shall promptly give the Owner written notice of any errors, conflicts or ambiguities it discovers in the Bid Documents.

B. If the Bidder objects in any manner to the Terms and Conditions or Technical Specifications, the objection must be addressed in writing no later than ten (10) business days prior to the Bid Opening Date. The Owner will address the objection in an Addendum if the Owner believes that a clarification or change is necessary.

C. The Owner may issue Addenda prior to the opening of Bids to change or clarify the intent of the Bid Documents. The Owner will issue written responses to questions and requests for clarifications received by the stated deadline in the form of Addenda and will distribute Addenda to all Bidders who have attended the Pre-Bid Meeting and provided acceptable contact information.

D. The Bidder shall be responsible for ensuring it has received all Addenda prior to submitting its Bid and shall acknowledge receipt of all Addenda by completing the Bidder’s Representation section on the Bid Form in DIVISION 5: FORMS. All Addenda will become part of the Bid Documents and any resulting Contract Documents. Failure to acknowledge receipt of Addenda may be grounds for rejection of a Bid at the Owner’s sole discretion.

1.1.12 Completing the Bid Form

A. Bidders shall complete and submit the enclosed Bid Form with responses typewritten or written in ink. When a blank is marked "optional", the Bidder shall insert the words "No Bid" in the space provided if the Bidder does not choose to submit a price for that item.

B. Failure to complete each blank with either a price or the words "No Bid" may disqualify the Bid. Failure to submit a Bid that addresses all parts of the Work may disqualify the Bid.

C. The Bidder, or its authorized agent or officer of the firm, shall sign the Bid Form. Failure to sign the Bid Form may disqualify the Bid.

D. Owner-approved erasures, interlineations or other corrections shall be authenticated by affixing in the margin, immediately opposite the correction, the handwritten signature of each person executing the Bid. Failure to authenticate changes may disqualify the Bid.

E. The Owner will review the Bids to determine that they meet the specifications set for the Work in the Bid Documents. The Owner may disqualify any Bids that deviate from the requirements of this Solicitation, and those that include unapproved exceptions, amendments, or erasures.

F. Failure to complete and submit all additional forms and documentation required in the Bid Documents to accompany the Bid Form may disqualify the Bid.

1.1.13 Modification or Withdrawal of Bids

A. The Bidder may modify or withdraw its Bid at any time prior to the advertised Bid Opening by giving written notice to the City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873. The Owner shall not accept any modifications to Bids after the advertised Bid Opening. The Bidder shall not withdraw its Bid for a period of 120 calendar days following the advertised Bid Opening.

1.1.14 Submitting the Bid Documents

A. The Bidder shall submit its Sealed Bid in response to this Solicitation no later than the Bid Due Date and Time stated in the Invitation for Bid, or as may be subsequently amended via Addenda. The Bid shall be sealed and the envelope clearly marked with the title stated in the Invitation for Bid and the Bidder's name and address. The Sealed Bid may be enclosed in another mail or courier service package.

B. The Bidder shall submit one (1) original Bid and two (2) duplicates of the original Bid.

C. All Bids must be received at the location and by the date and time stated in the Invitation for Bid, or as may be subsequently amended via Addenda. The Bids from all Bidders will be publicly read at the date and time advertised for the Bid Opening. Bids arriving after the advertised Bid Opening date and time and/or at an incorrect location will be returned to the Bidder unopened. Reliance upon third-party courier or delivery service is at the Bidder's risk.

D. All information marked by the Owner or the Bidder as "Confidential Information" that is included in the Solicitation or that is submitted by the Bidder as part of its Bid shall be handled in accordance with the terms and conditions stated in DIVISION 3: TERMS AND CONDITIONS.

1.1.15 Opening of Bids

A. The Owner will open Bids at the date, time and location stated in the Invitation for Bid, or as may be subsequently amended via Addenda. At the Bid Opening, the Owner will

publicly open and read each Bid that was received prior to the advertised deadline for bid submissions, except those that have been properly withdrawn.

B. The Owner has the right to waive any irregularities or informalities in the Bids.

C. Copies of all Bids will be available for public inspection ten (10) business days after the Bid Opening date. Bidders may review opened Bids by contacting the designated Owner Representative to arrange a mutually convenient time for such review at the Owner's offices.

1.1.16 Calculation of Bid Price

A. The Owner will use the Bidder's base bid when making price comparisons for Award purposes.

B. The Owner will consider alternate Bids only if the Bidder submits a base Bid in accordance with the Bid Documents. The Owner will review alternates on the Bid Form, and will reject or accept at the Owner's sole discretion.

1.1.17 Award

A. The Owner will Award the Contract to the lowest, responsive and responsible Bidder whose Bid meets or exceeds specifications, in accordance with the Contract Documents. The Owner reserves the right to reject any/all Bids, in whole or in part, as deemed to be in the Owner's best interest.

1.1.18 Notice of Award

A. The Owner intends to Award one Contract for as many items as possible to achieve maximum benefit from this Contract. The Owner may Award more than one Contract, based on certain groupings of items, which the Owner may revise or reorganize, or the Owner may exclude line items if in its best interest. In the event the Owner makes an award as a result of this Solicitation, the Owner will issue a Notice of Award, in writing and signed by an authorized Owner's Representative as notice to the Bidder that the Owner has deemed it the successful Bidder.

B. The Notice of Award will be accompanied by relevant Contract Documents for execution. Unless expressly waived by the Owner, the Successful Bidder shall execute a Contract for the Work in a form acceptable to the Owner within the timeframe stated on the Notice of Award. If the Bidder fails to execute the Contract Agreement form or associated documents, or to obtain the necessary bonds, licenses or insurances as required, or if it fails to act on an Owner-issued Purchase Order ("PO"), the Owner may cancel the Award with no further liability to the Bidder, retain the Bid Security, and Award to the next lowest responsive and responsible Bidder.

C. Upon receipt of the completed documents, the Owner will execute the Contract Documents and issue the Contractor one fully executed original copy. No other Owner action shall constitute acceptance of the Bid.

1.1.19 Notice to Proceed

A. Upon receipt of the executed Contract, the required Payment Bond, Performance Bond, and compliant Certificate of Insurance, the Owner will issue a Notice to Proceed in writing and signed by an authorized Owner's Representative as authorization for the Contractor to proceed with the Work, unless otherwise stated in the Contract.

B. In the event that the Owner intends to authorize the Successful Bidder to proceed with Administrative Work only, or with only a portion of the Work, then the Owner shall state the specific limitations of such authorization in a written notice, and the Owner will issue a separate Notice to Proceed to authorize the Contractor to begin Field Work, when applicable, or to perform the remainder of the Work, or any portion thereof. The Contractor shall ensure that it is prepared to begin Field Work upon receipt of the Notice to Proceed. Any Work performed outside of this partial authorization shall be at the Contractor's risk and the Owner shall have no obligation to pay for such Work.

1.1.20 Certification and Representations of the Bidder

A. By signing and submitting a Bid, the Bidder certifies and represents as follows:

1. That it has carefully examined all available records and conditions, including sites if applicable, and the requirements and specifications of these Bid Documents, including but not limited to all sample Contract Documents, Technical Specifications, Drawings, exhibits and attachments thereto, prior to submitting its Bid.

2. That every aspect of its submitted Bid, including the Bid Price and the detailed schedule for the execution of the Work, are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Owner. The Owner assumes no responsibility for any understanding or representation made by any of the Bidder's representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that the Owner assumes the responsibility.

3. That the individual signing the bid is a duly authorized agent or officer of the submitting firm. Bids submitted by a corporation must be executed in the corporate name by the President or a Vice President. If an individual other than the President or a Vice President signs the bid, satisfactory evidence of authority to sign must be submitted with the bid. If the bid is submitted by a partnership, the bid must be signed by a partner whose title must appear under the signature. If an individual other than a partner signs the bid, satisfactory evidence of authority to sign must be submitted

with the bid. The corporation or partnership must be in active status at the Florida Division of Corporations at the time of submission of the Bid.

4. That the submitting Bidder maintains in active status any and all licenses, permits, certifications, insurance, bonds and other credentials including not limited to contractor's license and business registration tax necessary to perform the Work. The Bidder also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Bidder shall immediately notify the Owner of any change.

5. That it has read, understands and will comply with the Article 1.1.22 of this section entitled "Ethics."

1.1.21 Conflict of Interest

A. Any Bidder bidding the construction phase of a project cannot at the time of Bid submittal, be affiliated with or have any direct or indirect ownership interest in the architect/engineer ("Designer') of record. The Bidder will also be prohibited from bidding if the Designer has any direct or indirect ownership interest in the Bidder. Should the Owner erroneously award a contract in violation of this policy, the Owner may terminate the contract at any time with no liability to Contractor, and Contractor shall be liable to the Owner for all damages, including but not limited to the costs to rebid the Project. The purpose of this policy is to encourage open, fair and competitive bidding and to eliminate any actual or perceived advantage that one bidder may have over another. In addition to this policy, Design Build projects are governed by the provisions of Section 287.055(9)(b), *Florida Statutes*.

1.1.22 Ethics

A. By signing the Bid Form, the Bidder certifies this Bid is made without any previous understanding, agreement or connection with any other person, firm, or corporation submitting a Bid for the same Work other than as a Subcontractor or supplier, and that this Bid is made without outside control, collusion, fraud, or other illegal or unethical actions. The Bidder shall comply with all Owner ordinances, policies and procedures regarding business ethics.

B. The Bidder shall submit only one Bid in response to this Solicitation. If the Owner has reasonable cause to believe the Bidder has submitted more than one Bid for the same Work, other than as a Subcontractor or Supplier, the Owner may disqualify the Bid and may pursue debarment actions.

C. The Bidder shall disclose the name(s) of any public officials who have any financial position, directly or indirectly, with this Bid by submitting such information with its Bid. Failure to do so will disqualify the Bid. If the Owner has reason to believe that collusion exists among the Bidders, the Owner will reject any and all Bids from the suspected Bidders and may proceed to debar the Bidder(s) from future Work.

D. In accordance with Section 287.133, *Florida Statutes* the Owner will reject Bids from any persons or affiliates convicted of a public entity crime as listed on the Convicted Vendors list maintained by the Florida Department of Management Services. The Owner shall not make an Award to any officer, director, executive, partner, shareholder, employee, member, or agent active in management of the Bidder listed on the Convicted Vendor list for any transaction exceeding $10,000 for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor list.

E. If the Bidder violates any requirement of this Section, the Bid may be rejected and the Owner may debar the offending companies and persons from future Work with the Owner.

1.1.23 Ex Parte Communication

A. Ex Parte Communication is strictly prohibited. Failure to adhere to this policy will disqualify the noncompliant Bidder's Bid. The Owner's policy on Ex Parte Communication will not prohibit the following:

1. Meetings called or requested by the Owner and attended by the Bidders for the purpose of discussing this Solicitation, evaluation, or selection process including, but not limited to, substantive aspects of the Solicitation. Such meetings may include, but are not limited to, Pre-Bid meetings, site visits to the Owner's or the Bidders' facilities, interviews/negotiation sessions as part of the selection process, and other presentations by the Bidders, all of which are requested by the Owner and will be limited to topics specified by the Owner.

2. The addressing of the Owner at public meetings advertised and conducted pursuant to Section 286.011, *Florida Statutes*.

3. The filing of a written protest to any proposed Award to be made pursuant to this Solicitation, evaluation and selection process, which filing and prosecution shall give notice to all Bidders. Protest proceedings shall be limited to open public meetings advertised and conducted pursuant to Section 286.011, *Florida Statutes* with no Ex Parte Communication outside those meetings.

4. Communications between the Owner representatives and the Bidder for routine matters arising from procurements other than this Solicitation.

5. Written communication between potential Bidders and the Engineer provided copies of written communications are provided to all Bidders.

1.1.24 Prohibition Against Contingent Fees

A. The Bidder warrants that it has not employed or retained any company or person, other than a bona fide employee working for the Bidder, to solicit or secure a contract with the

Owner, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Bidder, any fee, commission, percentage, gift, or any other consideration, contingent upon or resulting from the Award or making of the Contract. For the breach or violation of these provisions, the Owner shall have the right to disqualify the Bid and pursue debarment or terminate the Contract without liability and at its discretion, to deduct from the Contract Price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration.

1.1.25 Protest of Bid and Award Process

A. Bidders shall file any protests regarding this Solicitation in writing, and shall submit such to the Owner's Procurement Representative noted on the Solicitation no later than three (3) business days following the event giving rise to the protest. Failure to submit a written protest within the timeframe herein will constitute a waiver of the right to pursue a protest.

B. The written protest shall include at minimum the following information:

1. Project or bid number of the solicitation protested;

2. Title of solicitation protested;

3. Specific identification of issue(s) protested; and

4. Requested action for correction.

C. The Owner's Procurement Representative will review the submitted information to ensure completeness and submit the issue to a committee comprised of the Owner's designated Project Manager for the Work, the City Manager and the Owner's Legal Counsel ("Protest Committee").

D. The Protest Committee will review the protest and may request a presentation by the Bidder of the protested issue. The Protest Committee will issue a written decision within fourteen (14) calendar days of receipt of the written protest.

1.1.26 Owner's Reservations

A. The Bid Documents provide potential Bidders with information to enable the submission of written offers. The receipt of Bid Documents is not a contractual offer or commitment by the Owner to purchase products or services.

B. Bids and Bid Prices shall be warranted for a period of one-hundred twenty (120) days following the opening of Bids, and no Bid may be withdrawn during such time period.

C. The Owner reserves the right to reject any or all Bids, or any part thereof, and/or to waive irregularities or informalities if such action is in its best interest. The Owner may reject any Bids that it deems incomplete, obscure or irregular including, but not limited to, Bids that omit a price on any one or more items for which prices are required, Bids that omit Unit Prices if Unit Prices are required, Bids for which the Owner determines that the Bid is unbalanced, Bids that offer Equal Items when the option to do so has not been stated, Bids that fail to include a bid bond, where one is required, and Bids from Bidders who have previously failed to satisfactorily complete Contracts of any nature for the Owner.

D. The Owner reserves the right to cancel, postpone, modify, reissue and amend this Solicitation at its discretion. The Owner reserves the right to cancel or change the date and time of the bid opening at any time prior to the advertised time.

E. The Owner may Award the Contract in whole or in part. In such cases whenever the Owner exercises any of these reservations, the Owner will make a reasonable effort to notify, in writing, all parties to whom Bid Documents were issued. The Owner may award multiple or split Contracts if it is deemed to be in the Owner's best interest.

1.1.27 Documents and Forms Included in the Bid Documents

A. The reference to and/or inclusion of the Contract Documents and other Contract related forms in the Bid Documents shall in no way be construed as an Award of the Work, or any portion thereof, or as an intention to award the Work. The Owner reserves the right to alter, amend or delete any portion of these forms, to exclude any form, or to require additional forms not listed herein prior to execution of the Contract Documents.

SECTION 1.2: REQUIRED FORMS TO SUBMIT WITH BID

1.2.1 Bid Forms

A. To submit a Bid in response to this Solicitation, all of the following forms must be completed and submitted as part of the Bid. Copies of the forms are contained in the Bid Documents. Additional copies may be requested by contacting the Owner.

1. Bid Form (form included in DIVISION 5: FORMS)

2. Bid Security (form included in DIVISION 5: FORMS)

3. Bidder’s Qualifications and supporting information (form included in DIVISION 5: FORMS)

4. Bidder’s Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years (form included in DIVISION 5: FORMS)

5. Drug-Free Workplace Certificate (form included in DIVISION 5: FORMS)

6. Florida Trench Safety Act Acknowledgement (form included in DIVISION 5: FORMS)

7. Non-Collusion Affidavit (form included in DIVISION 5: FORMS)

8. Public Entity Crimes Statement (form included in DIVISION 5: FORMS)

9. Tabulation of Subcontractors and Suppliers (form included in DIVISION 5: FORMS)

10. Evidence of authority to do business in the State of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;

    Contractor's License No.: _____.

[END OF SECTION]

DIVISION 2:
AGREEMENT

This Agreement is made and entered into on _____ ("Effective Date"), by and between THE CITY OF WAUCHULA, a Florida municipality located at 126 South 7th Avenue, Wauchula, Florida 33873 ("Owner") and _____, a [STATE OF INCORPORATION] corporation with principal offices at _____ [ADDRESS OF CONTRACTOR] ("Contractor").

Whereas, the Owner owns and maintains Alabama Street ("Alabama"); and

Whereas, the Owner has been awarded state funding through FDOT's Small County Outreach Program to resurface Alabama Street, as well as federal funding under the American Rescue Plan Act of 2021, Pub. L. No. 117-2 ("ARPA"); and

Whereas, the Owner issued an Invitation for Bid and all associated Bid Documents for the Work titled "City of Wauchula – Alabama Street Roadway Improvements," and;

Whereas, pursuant to section 287.05701, Florida Statutes, the Owner is prohibited from, and has not requested documentation of or considered, any vendor's social, political, or ideological interests when determining whether the vendor is a responsible vendor. Moreover, the Owner has not given preference to any vendor based on the vendor's social, political, or ideological interests; and

Whereas, the Contractor submitted a Bid in response to such Work, which was opened and accepted by Owner on _____, 2025, and;

Whereas, the Contractor represents it is capable and prepared to perform such Work as set forth in Invitation to Bid; and

Whereas, the Owner has determined that the Contractor's Bid is the lowest responsive and responsible Bid for the Work and has issued the Contractor a Notice of Award to such effect;

Therefore, the Owner and the Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

SECTION 2.1: WORK

2.1.1 Completion of Work

A. Contractor shall complete all Work as specified or indicated in the Contract Documents. Contractor's scope of services on the Work shall not substantially differ from Contractor's Bid unless agreed to in writing by the Parties or as otherwise The principal features of the Work are described as:

1. ¼ mile of milling and resurfacing on Alabama Street
2. Select demolition and reconstruction of concrete curb and gutter, sidewalk, driveways, and ramps.
3. Striping and signage

SECTION 2.2: CONTRACT PRICE

2.2.1 Contract Price

A. The Contractor shall perform the work for a not-to-exceed Contract Price of _____ [CONTRACT PRICE], or as may be amended in accordance with the Contract Documents, subject to the availability of lawfully appropriated funds.

2.2.2 Quantities

A. The Contract Price includes the Contractor's Bid Price. For items of the Work that are Unit Price, the prices shown on the Bid Form shall be used in determining the final Contract Price. As stated in the Bid Documents, estimated quantities provided on the Bid Form by the Owner are not guaranteed quantities. Actual quantities used in the Work may vary.

B. Regularly during the Work, and upon the Owner's review of the Final Application for Payment, the Owner, or its designated representative, will determine actual quantities used in the Work, and the Owner may issue a Change Order if required to alter the Contract Price.

SECTION 2.3: CONTRACT TIME

2.3.1 Time of the Essence

A. All time limits for Milestones, if any, Substantial Completion, and Final Completion and readiness for final payment as stated in the Contract Documents are of the essence.

B. As further stated in Section 3.19.20 below, the Owner's agreement to an extension of any applicable deadline for Milestones, if any, Substantial Completion, or Final Completion, among any other deadlines provided herein, shall not constitute a waiver of the Owner's right to enforce the Contractor's compliance with other deadlines as provided herein, nor shall the Owner's failure to enforce compliance with any particular deadline or event operate as acquiescence or waiver of the Owner's right to enforce the Contractor's compliance with other such deadlines.

2.3.2 Days to Achieve Substantial Completion and Final Payment

A. The Work will be required to have reached Substantial Completion within **180** calendar days after the issuance of the Notice to Proceed, and completed and ready for final payment in accordance with the Contract Documents within **210** calendar days after the date when the Contract Time commences to run.

SECTION 2.4: CONTRACT ROLES AND RESPONSIBILITIES

The Owner and the Contractor may alter or amend the individuals named herein, or name additional representatives, by promptly providing written notice to the other party of any changes.

The following individuals shall have the responsibilities set forth in the Contract Documents for their respective roles:

2.4.1 Contract Administrator:

Name: Olivia Minshew, City Manager
Agency/Company: City of Wauchula
126 South 7th Avenue
Wauchula, FL 33873
(863) 773-3131

2.4.2 Project Engineer:

Name: Mark Davies, PE
Agency/Company: Kimley-Horn and Associates, Inc.
109 South Kentucky Avenue
Lakeland, FL 33801
(863) 701-8702

2.4.3 Grant Administrator:

Name: [IF APPLICABLE]
Agency/Company: [IF APPLICABLE]

2.4.4 Contractor's Representative:

Name: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]
Agency/Company: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]

2.4.5 Contractor's Supervisor:

Name: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]
Agency/Company: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]

SECTION 2.5: CONTRACT DOCUMENTS

2.5.1 Contents

A. The following shall comprise the Contract Documents. The Owner shall generally consider this order of precedence in resolving any conflicts, errors or discrepancies:

1. Executed Amendments, Change Orders and Work Change Directives
2. This executed Agreement
3. Addenda to the Bid Documents
4. Florida Department of Environmental Protection Supplementary Conditions

5. Terms and Conditions and Supplemental Conditions, including the following Exhibits and Attachments thereto

6. Notice of Award

7. Notice to Proceed

8. Payment Bond and Performance Bond

9. Owner issued Purchase Orders

10. Owner's Technical Specifications, Drawings, Plans, Exhibits and Attachments

11. Contractor's Bid in response to the Invitation for Bid, including the Bid Form

B. The figure dimensions on drawings shall govern over scale dimensions. Contract and detailed drawings shall govern over general drawings. The Contractor shall perform any Work that may reasonably be inferred from the Contract as being required, whether or not it is specifically called for, at no additional cost to the Owner. Work, materials or equipment described in words that, so applied, have a well-known technical or trade meaning shall be taken as referring to such recognized standards.

C. By signing the Agreement, the Contractor represents that it has carefully examined the Contract Documents and agrees to perform the Work in accordance with the Contract Documents, as may be amended from time to time.

SECTION 2.6: NOTICES AND CORRESPONDENCE

2.6.1 Transmission Method

A. All notices required or permitted under this Contract shall be in writing and shall be deemed received if sent by one of the following means: upon receipt if delivered by hand; one day after being sent by an express courier with a reliable system for tracking delivery; three days after being sent by certified or registered first class mail, postage prepaid and return receipt requested; or upon confirmed facsimile transmission provided that a copy shall be sent by another of the foregoing means.

B. All notices shall be addressed by a party to the other party as indicated below. Either party may change its address from time to time upon prior written notice to the other specifying the effective date of the new address.

Owner
Attention: Olivia Minshew, City Manager
Address: City of Wauchula
126 South 7th Avenue
Wauchula, FL 33873

Contractor
Attention: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]
Address: [TO BE COMPLETED BY OWNER PRIOR TO EXECUTION]

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in triplicate on the Effective Date first stated above.

OWNER	**CONTRACTOR**
By _____	By _____
Date _____	Date _____
(Corporate Seal)	(Corporate Seal)
_____	_____
Attest	Attest

[END OF SECTION]

DIVISION 3:
TERMS AND CONDITIONS

SECTION 3.1: DEFINED TERMS

3.1.1 Definitions

A. Words and terms defined in this section shall have the same meaning throughout all parts of the Contract Documents. Where intended to convey the meaning consistent with that set forth in its definition, a defined word or term is marked by initial capitalization. DIVISION 6: TECHNICAL SPECIFICATIONS may define additional words and terms where necessary to clarify the Work. Unless otherwise stated in the Contract Documents, definitions set forth in DIVISION 6: TECHNICAL SPECIFICATIONS shall apply only within DIVISION 6: TECHNICAL SPECIFICATIONS.

1. Addendum/Addenda: A change or changes to the Solicitation issued in writing by the Owner and incorporated into the Solicitation and Contract Documents.

2. Administrative Work: Actions primarily performed in an office environment and associated with preparing to perform or administer the Work including, but not limited to, preparing Work schedules, obtaining bonds, executing Contracts, securing resources and other actions specified in the Bid Documents, or otherwise prudent to ensure a timely, safe and otherwise compliant start and performance of Field Work. Administrative Work is not performed at the Work Location.

3. Application for Payment: A document seeking payment to Contractor from Owner for all or a portion of the Work, in accordance with the Contract Documents, and including at a minimum the following items: the Contractor name and address, a description of the product(s) or service(s) rendered, a valid Owner PO number, the amount payable, the payee name and address, any associated forms and any other supporting documentation required by the Contract Documents.

4. Approved Schedule: The approved progress schedule for performance of the Work approved by the Owner or the Owner's Representative, as most recently amended.

5. Bid Documents/Bidding Documents: The documents titled Instructions to Bidders, the Invitation for Bid, the Bid Form, all sample forms to be included in the Bidder's Bid, the sample Contract Documents, including Technical Specifications and forms included to provide the Bidder with a complete understanding of the Work requirements, excluding any technical data or test results that are provided as additional information regarding Work Location conditions.

6. Bid or Proposal: The document, including all forms and information, describing the Bidder's offer and submitted in response to this Invitation for Bids. Bid and Proposal shall be considered synonymous for the purpose of this Contract.

7. Bid Price: The total dollar amount of the Bidder's offer including, but not limited to, all labor, materials, overheads, profits, other expense, and any and all other cost

items incurred by the Bidder in successfully performing the Work in accordance with the Contract Documents.

8. Bidder: The respondent to this Solicitation.

9. Bond: A financial mechanism to guarantee a contractual obligation.

10. Change Order: A written order issued by the Owner after execution of the Contract to the Contractor, as may be recommended by the Engineer, signed by the Owner and authorizing an addition, deletion, or revision of the Work, or an adjustment in the Contract Price or the Contract Time. An executed Change Order resolves all issues related to price and time for the work included in the Change Order.

11. Contract: The Agreement for the Work executed by the Owner and Contractor as included in these Contract Documents.

12. Contract Administrator: The individual assigned by Owner, who is an employee of the Owner, to have authority over the Contract, including the authority to negotiate all elements of the Contract with the Contractor, authorize Change Orders within the maximum amount awarded, terminate the Contract, seek remedies for nonperformance including termination, and otherwise act on behalf of the Owner in all matters regarding the Contract. The Contract Administrator may authorize an Engineer and/or other Owner's Representative in writing to make minor changes to Field Work with the intent of preventing Work disruption.

13. Contract Documents: Contract Documents means the documents set forth in the executed Agreement form.

14. Contract Price: The total amount payable to the Contractor under the Contract, as set forth in the Agreement form, as most recently amended.

15. Contract Time: The number of calendar days or the period of time from when the written Notice to Proceed is issued to the Contractor to the date Contractor has agreed to complete the Work, as stated in the Agreement form, as most recently amended.

16. Contractor: The legal person, firm, corporation or any other entity or business relationship with whom the Owner has executed the Contract. Where the word "Contractor" is used it shall also include permitted successors and assigns.

17. Contractor Representative: The individual responsible for representing the Contractor in all activities concerning the fulfillment and administration of the Contract.

18. Contractor Supervisor: The individual employed or contracted by the Contractor to manage the Work on a day-to-day basis and ensure the Work is performed according to the Contract. The Contractor Supervisor may be authorized by the Contractor

Representative to act on Contract matters. Such authorization shall be in writing and delivered to the Engineer and shall clearly state the limitations of any such authorization. In the event that the Contractor Supervisor and the Contractor Representative is the same person, the Contractor shall notify the Engineer of such situation.

19. Defect or Defective: When used to modify the "Work," whether in lowercase or uppercase, Work that fails to meet the requirements of any required test, inspection or approval, and any Work that meets the requirements of any test or approval, but nevertheless does not meet the requirements of the Contract Documents.

20. Engineer: The individual assigned by the Owner (either an employee or a third party), who is a licensed professional engineer in the State of Florida, to provide engineering, design review, and/or construction management including, but not limited to, overseeing and resolving engineering/design issues with the Engineer for the Work, and conveying the Owner's instructions to the Contractor.

    The Engineer's authority includes interpreting the technical portion of the Contract Documents, deciding on matters relating to the execution and progress of the Work and evaluating the Contractor's performance. The Engineer may stop the Work when deemed necessary by the Owner. The Engineer will receive and adjudicate any claim of ambiguity or error in the technical portion of the Contract Documents and shall reduce any determination to writing, and shall make a recommendation to the Owner. The Engineer is not a party to the Contract. The Engineer has no authority to approve changes to the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator.

21. Environmental Requirements: All laws, ordinances, statutes, codes, rules, regulations, agreements, judgments, orders, and decrees, now or hereafter enacted, promulgated, or amended, of the United States, the states, the counties, the cities, or any other political subdivisions in which the Work Location is located, and any other political subdivision, agency or instrumentality exercising jurisdiction over the Owner, the Work Location, or the use of the Work Location, relating to pollution, the protection or regulation of human health, natural resources, or the environment, or the emission, discharge, release or threatened release of pollutants, contaminants, chemicals, or industrial, toxic or hazardous substances or waste or Hazardous Materials (as defined in this Contract) into the environment (including, without limitation, ambient air, surface water, ground water or land or soil).

22. Equal Item: Item a Bidder chooses to offer in place of offering the brand name or manufacturer's item specified on the Bid Document when the Bid Document clearly states that the Bidder may offer such an item.

23. Ex Parte Communication: Any communication pertaining to this Solicitation between a Bidder or protester (or their respective employees, agents, or representatives, or

someone otherwise acting on behalf of Bidder) and the Owner (its members, employees, agents, and representatives other than the designated Owner representatives in the Solicitation), during the Solicitation period through the Contract Award, and/or from the initiation of a protest through Contract Award or through protest resolution.

24. Field Order: An order given by the Owner's Representative, in writing or orally, to direct progress of the Work. A Field Order may authorize only minor variations to the Work as needed to ensure progress, and does not authorize the Contractor to incur additional costs, change the Contract Price or Contract Time.

25. Field Work: Actions associated with meeting the requirements of the Contract other than Administrative Work. Field Work is primarily performed at the Work Location.

26. Final Acceptance: The Owner's written notice to the Contractor that all Work as specified in the Contract has been completed to the Owner's satisfaction. Approval or recognition of the Contractor meeting a milestone or interim step does not constitute Final Acceptance of the Work. Final Acceptance is only applicable to the entirety of Work as specified in the Contract. Final Acceptance does not in any way limit the Owner's rights under the Contract or applicable laws, rules and regulations.

27. Final Completion: The point in time after which the Owner has accepted the Work, in accordance with DIVISION 3: TERMS AND CONDITIONS and the Contractor has fulfilled all requirements of the Contract Documents.

28. Hazardous Materials: Any substance which is or contains (i) any "hazardous substance" as now or hereafter defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. '9601 et seq.) ("CERCLA") or any regulations promulgated under or pursuant to CERCLA; (ii) any "hazardous waste" as now or hereafter defined in the Resource Conservation and Recovery Act (42 U.S.C. '6901 et. seq.) ("RCRA") or regulations promulgated under or pursuant to RCRA; (iii) any substance regulated by the Toxic Substances Control Act (15 U.S.C. '2601 et seq.); (iv) gasoline, diesel fuel, or other petroleum hydrocarbons; (v) asbestos and asbestos containing materials, in any form, whether friable or non-friable; (vi) polychlorinated biphenyls; (vii) radon gas; and (viii) any additional substances or materials which are now or hereafter classified or considered to be hazardous or toxic under Environmental Requirements (as hereinafter defined) or the common law, or any other applicable laws relating to the Licensed Property. Hazardous Materials shall include, without limitation, any substance, the presence of which on the Licensed Property, (A) requires reporting, investigation or remediation under Environmental Requirements; (B) causes or threatens to cause a nuisance on the Licensed Property or adjacent property or poses or threatens to pose a hazard to the health or safety of persons on the Licensed Property or adjacent property; or (C) which, if it emanated or migrated from the Licensed Property, could constitute a trespass.

29. Holidays: The following days: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Eve, and Christmas Day.

30. Instructions to Bidders: The division of the Bid Documents labeled Instructions to Bidders.

31. Inspector: The individual(s) or company(ies) designated by the Contract Administrator to inspect and test the Contractor's performance and Contract compliance including materials, workmanship, safety, environmental compliance, project controls, administration and accounting, and other aspects of Contract compliance. The Inspector has no authority to approve changes to the Work, the Contract Price or Contract Time, or to commit the Owner to any expenditure of money except as expressly designated in writing by the Contract Administrator. The Inspector may or may not be the same individual as the Engineer. The Contract Administrator may give the Engineer authority to appoint an Inspector.

32. Notice of Award: The issuance of a Notice of Award by the Owner to the successful Bidder notifying the Contractor that they have been authorized by the Owner to perform the work. A Notice of Award shall not be considered a Notice to Proceed.

33. Notice to Proceed: The written notice duly authorized and delivered by the Owner that authorizes the Contractor to begin Field Work. When indicated by the Owner, a PO may also serve as a Notice to Proceed.

34. Owner: The City of Wauchula.

35. Owner's Representative: The Engineer, Inspector, and other persons designated by the Contract Administrator as the Owner's Representative acting in a capacity related to the Work or Contract under the authority of the Contract Administrator.

36. Overtime: Work approved in writing by the Contract Administrator that is required to be performed beyond an employee's scheduled workday or work week, including Work performed on Holidays.

37. Payment Bond: The statutory Performance Bond contemplated by Section 255.05, *Florida Statutes*.

38. Performance Bond: The statutory Payment Bond contemplated by Section 255.05, *Florida Statutes*.

39. Preconstruction Meeting: A meeting conducted after Award and prior to the start of any Field Work between the Owner and the Contractor. The purpose of the meeting may include, but is not limited to orientation, schedule, certification and permitting, and other preparatory or Work execution details.

40. Purchase Order (PO): A Work authorization document issued by the Owner with the words "Purchase Order" clearly marked across the top, a PO number used for reference shown on the front, a description of the Work or a listing of the applicable Contract Documents, an authorized Owner signature and stating the amount of lawfully authorized funds.

41. Quality Assurance: Actions that the Owner takes to assess the Contractor's performance under the Contract.

42. Quality Control: Actions that the Contractor takes to ensure it successfully completes the Work in full accordance with the Contract Documents.

43. Resident Project Representative (RPR): An employee or agent of the Engineer at the Work Location, acting as directed by and under the Engineer. The RPR's authority for this Contract is set forth in DIVISION 3: TERMS AND CONDITIONS.

44. Shop Drawings: Drawings, electronic and hard copy, that detail the fabrication, erection, layout and setting drawings; manufacturer's standard drawings; schedules; descriptive literature, catalogs and brochures; performance and test data; wiring and control diagrams; all other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and method of construction as may be required to show the Engineer that the proposed materials, equipment or systems and the position thereof are in compliance with the requirements of the Contract Documents.

45. Site: The Work Location.

46. Solicitation: The Invitation for Bids (which may be electronic) issued by the Owner, or by a third-party on behalf of the Owner, to solicit Bids or Proposals from Bidders that includes the Bid Documents.

47. Specifications: The provisions contained in the Technical Specifications.

48. Standard of Care: The standards of skill and care ordinarily followed by contractors performing similar services for a project of similar scope and complexity in the same geographical area of the Work during the time in which the Work is performed.

49. Subcontractor: A provider of services or materials performing Work under contract for the Contractor.

50. Substantial Completion: The time when the Owner determines that the Work (or a specified part thereof) is sufficiently complete to be utilized for the purposes for which it is intended or ready for the Owner or other contractors to perform subsequent portions of the Work as stated in the Contract Documents. Recognition of the Work as Substantially Complete, as evidenced by issuance of a Certificate of

Substantial Completion, does not represent the Owner's Final Acceptance of the Work.

51. Term: The period of time during which the Contract is in force, from formal Notice of Award to Final Completion, or termination. In some cases, and as expressly stated, some of the Contract requirements may extend beyond the Term of the Contract.

52. Technical Specifications: The division of the Contract Documents collectively labeled as the Technical Specifications, including any exhibits and attachments thereto. Technical Specifications have been prepared by the Owner or a third-party.

53. Unit Prices: The Bidder's charges, rounded to the nearest cent, to the Owner for the performance of each respective unit of Work as defined on the Bid Form for all items required for successfully performing the Work through Final Acceptance.

54. Work: Work includes the scope set forth in the Contract Documents together with all other additional necessities that are not specifically recited in the Contract, but can be reasonably inferred as necessary to complete all obligations and fully satisfy the intent of the Contract.

55. Work Change Directive: Written authorization recommended by the Engineer and signed by the Owner and issued to the Contractor after the Contract Effective Date recommending an addition, deletion or revision in the Work. A Work Change Directive shall not change the Contract Price or Contract Time, but shall be evidence that the parties expect the change ordered or documented to be incorporated into a subsequent Change Order.

56. Work Location: The place or places where the Work is performed, excluding the properties of the Contractor and/or the Subcontractor(s).

SECTION 3.2: PRELIMINARY MATTERS

3.2.1 Payment Bond and Performance Bond

A. Within five (5) business days of receipt of Contract Documents, the Contractor shall furnish a Payment Bond and a Performance Bond in an amount equal to one-hundred percent (100%) of the amount of the Contract Price, made out to the Owner in forms and formats approved by the Owner, as security for the faithful performance of the Work of Contract, in accordance with Section 255.05, *Florida Statutes*. In no case shall the date on the bonds form be prior to that of the executed Contract. The surety must be authorized and licensed to transact business in Florida.

B. A fully executed Payment Bond and Performance Bond must be recorded with the Clerk of Hardee County Court and delivered to the Owner before Work may commence. If the Contractor fails or refuses to furnish or record the required bonds, the Owner will retain the Contractor's Bid Security as liquidated damages.

3.2.2 Liquidated Damages

A. If the Contractor fails to Substantially Complete the Work on or before the substantial completion date set forth in the Contract Documents, the Contractor shall pay the Owner the sum of $500.00 per day for each and every calendar day, including Sundays and Holidays, starting on the contracted substantial completion date and continuing until the date that the Work is Substantially Completed.

B. Following Substantial Completion, if the Contractor fails to complete any remaining Work within the Contract Time, the Contractor shall pay the Owner $500.00 per day for each and every calendar day, including Sundays and Holidays, starting on the contracted final completion date and continuing until the date that the Work is completed.

C. The Contractor understands and agrees that said daily sum is to be paid not as a penalty, but as compensation to the Owner as fixed and reasonable liquidated damages for losses that the Owner will suffer because of such default, whether through increased administrative and engineering costs, interference with the Owner's normal operations, other tangible and intangible costs, or otherwise, which costs are otherwise impossible or impractical to measure or ascertain with any reasonable specificity.

D. Liquidated damages may, at the Owner's sole discretion, be deducted from any monies held by the Owner that are otherwise payable to Contractor.

E. The Contractor's responsibility for liquidated damages shall in no way relieve the Contractor of any other obligations under the Contract.

3.2.3 Preconstruction and Progress Meetings

A. Before starting field work, a preconstruction meeting will be held to: review the work; to review the work schedule; to establish procedures for submitting items including but not limited to applications for payment, the schedule of submittals, approving the applications for payment, and making payments; and, to establish a working relationship between the Owner and the Contractor.

B. The Preconstruction Meeting shall be attended by, but not limited to, the Owner, the Engineer, the Contractor Representative and the Contractor Supervisor. The Contract Administrator will notify the Contractor in writing of the meeting time and location at least two (2) days prior to the meeting date.

C. Construction progress meetings will be held at a frequency determined by the Owner, but shall not be more often than once per week. Such meeting(s) shall be attended by, but not limited to, the Owner, the Engineer, and the Contractor's Supervisor.

3.2.4 Contractor Review of Project Requirements

A. The Contractor shall review the Work requirements and specifications prior to commencing Work. The Contractor shall immediately notify the Engineer in writing of any conflict with applicable law, or any error, inconsistency or omission it may discover. The Owner will promptly review the alleged conflicts, errors, inconsistencies or omissions, and issue a Change Order or Purchase Order, as appropriate if the Owner is in agreement with the alleged conflict, and issue revised specifications. Any Work the Contractor performs prior to receipt of approved Change Order or Purchase Order will be at the Contractor's sole risk and will not be reimbursed.

B. The Contractor agrees that it will provide sufficient personnel to perform the Work and that it will perform the Work in a manner consistent with the Standard of Care set forth above and with the Approved Schedule. The Owner shall not be responsible for any delays caused by the Contractor’s failure to adequately staff the Work.

3.2.5 Contractor's Documents at the Work Location

A. The Contractor shall maintain at the Work Location for the Owner one record copy of all Contract Documents in good order and marked currently to record all Addenda and changes made during the Contract Term. The Contractor shall include copies of all Change Orders, Work Change Directives, Field Orders, and other written clarifications or interpretations with these record documents. These shall be available to the Owner’s Representatives and shall be delivered to the Engineer upon completion of the Work or at the request of the Engineer. The Owner and the Owner’s Representatives may use such documents in reviewing the Contractor’s final Application for Payment.

B. The Contractor shall also maintain detailed records of the Work for its own files. The Contractor shall make these records available to the Owner for inspection upon request. The Contractor shall maintain such records for three years after the final completion date.

3.2.6 Contractor's Field Office

A. The Contractor shall provide its own office facilities at the Work Location, as required. Unless specifically listed herein, the Owner provides no Work Location facilities or Work Location area for the Contractor facilities of any kind such as field office and material storage. If the Contractor establishes a Work Location-based office, the Contractor shall provide and maintain adequate telephone facilities at this office during the full Term of the Contract. If the Contractor has a local business office, this office may serve as a Work Location office for this Contract, but the Contractor must maintain an operational cellular phone at the Work Location while performing Work.

3.2.7 Commercial Activities on the Work Location

A. The Contractor shall not establish any commercial activities, or issue concessions or permits of any kind to third parties to establish commercial activities on lands owned or controlled by the Owner, or within the boundaries of the Work Location. The Contractor shall not allow its employees to engage in any commercial activities on the Work Location.

3.2.8 Compliance with Referenced Specifications

A. All Work, materials, systems or operations specified by reference to standard trade specifications or to manufacturer's published specifications shall comply with the requirements of the referenced specifications, except as modified by the requirements of this Contract. The referenced specification used shall be the latest published edition that is in effect on the effective date of this Contract unless a particular edition is specified. In case of a conflict, the specifications that contain the more stringent requirements will govern.

3.2.9 Licenses

A. The Contractor shall comply with all licensing and/or certification requirements pursuant to applicable laws, rules and regulations. The Contractor shall secure all licenses as required for the performance of the Work and shall pay all fees associated with securing them. The Contractor shall produce written evidence of licenses and other certifications immediately upon request from the Owner.

B. The Contractor shall ensure that any subcontractors or subconsultants retained to provide labor, services, or material for the Work are fully licensed and certified, as applicable.

3.2.10 Limitation of Accuracy of Informational Materials

A. For all drawings, test results, inspections, and other informational materials included as part of the Contract Documents, the Contractor understands and agrees that any existing facilities shown, including underground, overhead, and surface structures, and other delineations, and any other informational items provided as part of the Contract Documents are for reference only and are not to be used by the Contractor as the only indication of Work conditions.

B. Unless otherwise stated, the data furnished by the Owner or the Engineer to the Contractor, or by the Contractor to the Owner or the Engineer, that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user’s sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

3.2.11 Permits

A. The Contractor shall secure, maintain, post as required, and pay for all building, plumbing, electrical, right-of-way, parking, roadway, railroad, shipping, freight, hazardous materials, and all other permits required for performance of the Work in full compliance with all applicable laws, rules and regulations. The Contractor shall perform all actions necessary to identify where permits are to be obtained and properly file for the permits.

B. The Contractor shall comply with all conditions of permits issued for the Work, either directly or indirectly, issued by federal, state, or local governmental agencies, which are hereby incorporated as part of these Contract Documents. The Contractor shall be solely responsible for resolving any issues and bearing all expenses including any damages suffered by the Owner that result from a finding of noncompliance during performance of the Work by any of the respective regulatory agencies including, but not limited to, all costs for delays, litigation, fines, fees of any kind, and other costs.

3.2.12 Work Information

A. In the event the Contractor requires additional information regarding the scope, technical specifications, Work Locations, personnel requirements, or other information pertinent to the Work or Contract, the Contractor shall request such information or clarifications from the Engineer in writing. Within the bounds of the Engineer's authority, the Engineer may provide the requested information to the Contractor.

3.2.13 Engineer’s RPR Status During Construction

A. The RPR shall have the responsibilities set forth herein for this Contract.

B. Review the progress schedule, schedule of Shop Drawings, and Sample Submittals and Schedule of Values prepared by the Contractor and consult with the Engineer concerning acceptability.

C. Attend conferences and meetings with the Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings, and prepare and circulate copies of minutes thereof.

D. Serve as the Engineer’s liaison with the Contractor, working principally through the Contractor’s authorized representative, assist in providing information regarding the intent of the Contract Documents. Assist the Engineer in serving as the Owner’s liaison with the Contractor when the Contractor’s operations affect the Owner’s on-site operations. Assist in obtaining additional details or information from the Owner, when required for proper execution of the Work.

E. Report to the Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to the Contractor clarifications and interpretations issued by the Engineer.

F. Record the date of receipt of Samples and approved Shop Drawings. Receive Samples which are furnished at the Site by the Contractor. Notify the Engineer of availability of Samples for examination. Notify the Engineer and the Owner if work is begun without reviewed shop drawings.

G. Consider and evaluate the Contractor's suggestions for modifications in the Drawings or Specifications and report such suggestions together with RPR's recommendations to the Engineer. Transmit in writing to the Contractor decisions as issued by Engineer.

H. Review of Work and Defective Work:

1. Conduct on–site observations of the Contractor's work in progress to assist the Engineer in determining if the Work is, in general, proceeding in accordance with the Contract Documents.

2. Report to the Engineer whenever RPR believes that any part of the Contractor's work does not conform to the Contract Documents or will imperil the integrity of the Work as indicated in the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; advise the Engineer of that part of work in progress that RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval.

I. Inspections, Tests and System Startups:

1. Verify that tests, equipment and system start-ups and operating and maintenance training are conducted in the presence of appropriate the Owner's personnel and that the Contractor maintains adequate records thereof.

2. Observe, record, and report to the Engineer appropriate details relative to the test procedures and system start-ups.

J. Record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of all of the Contractors, Subcontractors and materials and equipment Suppliers. Maintain records for use in preparing Work documentation.

K. Reports:

1. Furnish to the Engineer periodic reports as required of progress of the Work and of the Contractor's compliance with the Progress Schedule and Schedule of Shop Drawings and Sample Submittals.

2. Draft and recommend to the Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from the Contractor.

3. Immediately notify the Engineer of the occurrence of any Site accidents, emergency, acts of God endangering the Work, damage to property, or discovery of Hazardous Materials.

L. Review Applications for Payment with the Contractor for compliance with the established procedure for their submission and forward with recommendations to the Engineer, noting particularity the relationship of the payment requested to the Schedule of Values, Work completed and materials and equipment delivered at the Site but not incorporated in the Work.

M. During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Specifications to be assembled and furnished by the Contactor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to the Engineer for review and forwarding to the Owner prior to payment for that part of Work.

N. Completion:

1. Participate in a Substantial Completion inspection, assist in the determination of Substantial Completion and the preparation of list of items to be completed or corrected.

2. Participate in a final inspection in the company of the Engineer, the Owner and the Contractor and prepare a final list of items to be completed and deficiencies remedied.

3. Observe whether all items on final list have been completed or corrected and make recommendations to the Engineer concerning acceptance and issuance of the Notice of Acceptability of the Work.

O. Limitations of the RPR's Authority: The RPR shall not:

1. Authorize any deviation from the Contract Documents or substitute of material or equipment (including "or-equal" items).

2. Exceed limitations of the Engineer's authority as set forth in the Contract Documents.

3. Undertake any of the responsibilities of the Contractor, the Subcontractors, the Suppliers or the Contractor's Superintendent.

4. Advise on, issue directions regarding, or assume control over safety practices precautions, and programs in connection with the activities or operations of the Owner or the Contractor.

5. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by the Engineer.

6. Accept Shop Drawings or Sample submittals from anyone other than the Contractor.

7. Authorize the Owner to occupy the Project in whole or in part.

8. Advise on issue directions, or assume control over means, methods, techniques, sequences, or procedures for the Contractor's Work.

3.2.14 Conflict of Interest

A. No member, officer or employee of the City during his/her tenure or for one (1) year after shall have any interest, direct or indirect, in this contract or proceeds thereof. The Contractor shall also include this statement in all subcontracts for this work.

SECTION 3.3: SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE

3.3.1 Acceptance of Work - After Receipt, Inspection, Usage and Testing

A. The Contract Administrator will make the determination when Work is completed and there is Final Acceptance by the Owner, with consideration to the Engineer's and the Inspector's recommendations.

B. Final Acceptance will be made by the Owner only in writing, and after adequate time to ensure the Work is performed in accordance with Contract Documents in accordance with Section 255.077, *Florida Statutes*. The Owner will reject any items delivered by the Contractor that are not in accordance with the Contract, and shall not be deemed to have accepted any items until the Owner has had reasonable time to inspect them following delivery or, if later, within a reasonable time after any latent defects in the work have become apparent.

C. The Owner may partially accept the Work. If the Owner elects to accept nonconforming items, it may, in addition to other remedies, be entitled to deduct a reasonable amount from the price as compensation for the nonconformity. Any Final Acceptance by the Owner, even if nonconditional, shall not be deemed a waiver, or settlement or acceptance of any Defect.

3.3.2 Substantial Completion

A. The Contractor shall notify the Owner in writing when a portion of the Work is ready for Substantial Completion and can be utilized for the purposes for which it was intended. The Contractor shall identify any deficiencies in the Work. Owner will inspect the Work and will give the Contractor written notice of either acceptance of that portion of the Work or additional deficiencies. The Contractor shall correct all deficiencies prior to Substantial Completion of the Work.

B. Whenever any portion of the Work is substantially complete and can be utilized for the purpose for which it was intended, the Owner may use it. Such use shall not be held in any way as a Final Acceptance of the Work or as a waiver of any provisions of the Contract.

C. Upon determination that the Work meets the requirements for Substantial Completion, the Owner will issue a Certificate of Substantial Completion.

SECTION 3.4: PRICE & PAYMENTS

3.4.1 Application for Payment and Payment Terms

A. The Contractor shall submit to the Engineer or the Engineer's RPR all Applications for Payment using the prescribed forms included in the Contract Documents and in accordance with the payment method agreed upon in these Contract Documents. The Owner will pay the Contractor the amount requested less any authorized deductions or retainage set forth in the Contract Documents within thirty (30) days after receipt of an acceptable Application for Payment from the Contractor subject to the provisions stated below.

B. The Owner may reject any Application for Payment within twenty (20) calendar days after receipt. The Owner will return the Application for Payment to the Contractor stating the reasons for rejection. Upon receipt of an acceptable revised Application for Payment, the Owner will pay the Contractor the revised amount within ten (10) calendar days.

C. The Owner may withhold payment if the Owner reasonably believes the Contractor is in violation of any conditions or terms of the Contract Documents. Reasons for withholding payment to the Contractor include, but are not limited to, a reasonable belief by the Owner that it may suffer damages as a result of potential or actual claims attributable to the Contractor; inability of the Contractor to complete the Work in a timely manner; or any failure of the Contractor to perform its obligations hereunder. If the Owner reasonably believes Contractor is in violation of any conditions or terms of the Contract Documents and the Owner wishes to withhold payment from the Contractor, the Owner shall (i) provide the Contractor at least ten (10) days written notice of the Owner's intent to withhold such amount which states the basis for such withholding; and (ii) afford the Contractor an opportunity to cure or otherwise address the Commission's concerns.

D. The Application for Payment may be subject to the review of the Owner's Representative for purposes of determining compliance with the DIVISION 4: SUPPLEMENTAL CONDITIONS.

3.4.2 Retainage

A. Pursuant to Section 255.078, *Florida Statutes*, as additional security for the proper performance of the Work, the Owner may deduct up to five percent (5%) retainage from the amount stipulated in the Invoice or Application for Payment and accepted by the Owner as eligible for payment.

B. In the case of early termination of the Contract, all payments made by the Owner against the Contract Price prior to notice of termination shall be credited to the amount, if any, due the Contractor. If the parties determine that the sum of all previous payments and credits exceeds the sum due the Contractor, the Contractor shall refund the excess amount to the Owner within ten (10) calendar days of determination or written notice.

3.4.3 Payment Method - Progress Payments and Schedule of Values

A. For the purposes of this Contract, the Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS.

3.4.4 Final Application for Payment

A. After the Contractor has, in the opinion of the Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, marked-up as-built record documents and other documents, the Contractor shall complete and submit to the Owner the final Application for Payment with consent of surety for final payment as notice that the Work, including the correction of all deficiencies, is complete. By submitting the final Application for Payment, the Contractor certifies the following:

1. That the Work has been satisfactorily completed;

2. That no liens have attached against the property and improvements of the Owner;

3. That no notice of intention to claim liens are outstanding;

4. That no suits are pending by reason of the Work;

5. That all workers' compensation claims known to the Contractor have been reported to the Owner;

6. That the surety provides a release; and

7. That no public liability claims are pending.

B. Within ten (10) calendar days of receipt of the Contractor’s final Application for Payment, the Engineer shall review the final Application for Payment and make a recommendation to the Owner. The Owner shall make final payment to the Contractor in accordance with the Application for Payment provisions of the Contract.

3.4.5 Prompt Payment to Subcontractors and Suppliers

A. When the Contractor receives payment from the Owner for labor, services or materials furnished by Subcontractors and Suppliers that are hired by the Contractor, the Contractor shall remit payment due (less proper retainage) to those Subcontractors and Suppliers within fifteen (15) calendar days after the Contractor's receipt of payment from the Owner and obtain a Release of Lien for each payment made. Nothing herein shall prohibit the Contractor from disputing, pursuant to the terms hereof, all or any portion of a payment alleged to be due to its Subcontractors and Suppliers. In the event of such dispute, the Contractor may withhold the disputed portion of any such payment only after the Contractor has provided written notice to the Owner and to the Subcontractor and Supplier whose payment is in dispute, stating the amount in dispute and specifically describing the actions required to cure the dispute. The Contractor shall deliver such notice to the Owner and to the said Subcontractor or Supplier within ten (10) calendar days following the Contractor's receipt of payment from the Owner. The Contractor shall pay all undisputed amounts due within the time frames specified herein.

B. The Contractor shall submit a Release of Lien for the prior month’s payment included in any Application for Payment.

C. The prompt payment requirements herein shall, in no way, create any contractual relationship or obligation between the Owner and any Subcontractor, Supplier, or any third-party, nor create any Owner liability for the Contractor's failure to make timely payments as required. The Contractor's failure to comply with the prompt payment requirements, however, shall constitute a material breach of its contractual obligations to the Owner.

3.4.6 Taxes

A. The Contractor shall include the cost of all applicable State and Local Sales Taxes in the submitted Bid Price. The Owner reserves the right to directly purchase any materials or equipment to reduce project costs due to State and Local Sales Taxes. A deductive Change Order will be drafted to remove any Owner Direct Purchases from the Contract.

B. The Contractor shall be responsible for the payment of any applicable State and Local taxes relating to the purchase of equipment and materials required for the completion of this project.

3.4.7 Allowances

A. When the Contract Documents indicate that the Owner has provided the Contractor with an allowance for specified portions of the Work, the Contractor shall provide such Work in a manner acceptable to the Owner.

B. Allowance items shall include all costs to the Contractor (less any applicable trade discounts), including all applicable taxes, costs for unloading and handling materials and equipment at the Site, labor, installation, overload, profit, and other expenses set forth in the Contract Documents as part of the allowances.

SECTION 3.5: INSURANCE & INDEMNITIES

3.5.1 Environmental Indemnity

A. The Contractor shall hold harmless, indemnify, and defend the Owner and the Engineer, including without limitation, its officers, directors, members, representatives, affiliates, agents and employees, successors and assigns (the "Indemnified Parties") and will reimburse the Indemnified Parties from and against any and all claims, suits, demands, judgments, losses, costs, fines, penalties, damages, liabilities and expenses (including all costs of cleanup, containment or other remediation, and all costs for investigation and defense thereof including, but not limited to, court costs, reasonable expert witness fees and attorney fees) arising from or in connection with (a) the Contractor's, including, but not limited to, its agents, affiliates or assigns ("Parties"), actions or activities that result in a violation of any environmental law, ordinance, rule, or regulation or that leads to an environmental claim or citation or to damages due to the Contractor's or other Parties' activities, (b) any environmental, health and safety liabilities arising out of or relating to the operation or other activities performed in connection with this contract by the Contractor or any Party at any time on or after the effective date of the contract, or (c) any bodily injury (including illness, disability and death, regardless of when any such bodily injury occurred, was incurred or manifested itself), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any person in any way arising from or allegedly arising from any hazardous activity conducted by the Contractor or any Party. The Owner will be entitled to control any remedial action or any proceeding relating to an environmental claim. This indemnification agreement is separate and apart from, and is in no way limited by, any insurance provided pursuant to this Contract or otherwise. This section relating to indemnification shall survive the Term of this Contract, and any holdover and/or Contract extensions thereto, whether such Term expires naturally by the passage of time or is terminated earlier pursuant to the provisions of this Contract.

3.5.2 Indemnification

A. Contractor shall, to the fullest extent permitted by law, indemnify, defend, and hold harmless the Owner from claims, suits, liability, loss, expense, or damages, including all attorneys' fees and costs, arising from the negligent acts or omissions by, the willful misconduct of, or the failure to comply with applicable laws by Contractor or those for whom the Contractor is responsible in the performance of this Agreement. The indemnification required under this Agreement will not be limited in any way by the limits, terms, or conditions of any insurance policy.

B. Contractor, for itself and on behalf of its agents, employees, subcontractors, and subconsultants, shall to the fullest extent permitted by law indemnify, and hold the Owner harmless from and against any and all losses, expenses, claims, demands, and causes of action, including attorneys' fees and costs, asserted against the Owner by any person (including without limitation, Contractor's employees, Contractor's

subcontractors and subconsultants, and employees of such subcontractors and subconsultants, for injury to persons, including death, or for loss of or damage to property or failure of the completed work to perform as required by this Agreement, to the extent arising out of the negligent acts or omissions of Contractor or any entity for which it is responsible in performing the Work, or the violation by Contractor or any entity for which it is responsible of any law, regulation, ordinance, code or standard applicable to the Work. The indemnification required under this Agreement shall not be limited in any way by the limits, terms, or conditions of any insurance policy.

C. For purposes of the Indemnification provisions of this Article 3.5.2, the term "Owner" shall mean the Owner as a body politic and corporate and shall include its governing commission, officers, employees, agents, successors and assigns. The provisions of Article 3.5.2 shall survive the completion or termination of this Agreement

D. To the extent provided by law, Subrecipient shall indemnify, defend, and hold harmless the Department against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of Subrecipient, or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by Subrecipient hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes. The foregoing indemnification shall not constitute a waiver of the Department's or Subrecipient's sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28, nor shall the same be construed to constitute agreement by Subrecipient to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or for the acts of third parties. Nothing herein shall be construed as consent by Subrecipient to be sued by third parties in any manner arising out of this Agreement. This indemnification shall survive the termination of this Agreement.

a. Subrecipient agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity" for the purposes of the below indemnification) who perform work in connection with this Agreement:
    a. "To the extent provided by law, [ENTITY] shall indemnify, defend, and hold harmless the [SUBRECIPIENT] and the State of Florida, Department of Transportation, including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of ,relating to, or resulting from negligent or wrongful act(s) of [ENTITY], or any of its officers, agents, or employees, acting within the scope of their office of employment, in connection with the rights granted to or exercised by [ENTITY].
    b. The foreign indemnification shall not constitute a waiver of the Department's or [SUBRECIPIENT]'s sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or third parties. This indemnification shall survive the termination of this Agreement.

3.5.3 Insurance Requirements

A. For purposes of this Article 3.5.3, the term "Owner" shall mean the Owner as a body politic and corporate and shall include its governing commission, officers, employees, agents, successors and assigns. Before any work commences, and for four years beyond Final Acceptance of the Work, and without limiting its liability under the Contract, the Contractor, without in any way altering their liability, obtain, pay for, and maintain insurance for the coverages and amounts of coverage not less than those set forth below, and shall provide the Owner with a Certificate of Insurance and an opportunity to inspect a certified copy of each policy applicable to this Agreement. All policies required under this section must be an "Occurrence" form. The policies shall contain a waiver of subrogation in favor of the Owner. The Contractor's self-insured retention or deductible per line of coverage shall not exceed $25,000.00 without the permission of the Owner.

Schedule	**Amount**
<u>Workers' Compensation</u>	
Florida Statutory Coverage and Employer's Liability (including appropriate Federal Acts)	Statutory Limits (Workers' Compensation) As required by law (Employer's Liability)
<u>Contractor's General Liability</u>	
Completed Operations and Products Liability Property damage and bodily injury	$1,000,000/occurrence, $2,000,000 annual aggregate
<u>Personal Injury Liability</u>	
Property Damage Liability insurance will provide Explosion, Collapse and Underground Hazards (XCU Coverage) as appropriate	
<u>Automobile Liability</u>	
Bodily Injury Property Damage	$200,000/person, $300,000/occurrence $200,000/occurrence
<u>Contractual Liability</u>	
Bodily Injury Property Damage	$500,000/accident $1,000,000 annual aggregate
<u>Builder's Risk Insurance</u>	
Amount to be determined by Owner	

B. The Contractor's General Liability policies shall be effective for four (4) years after the Work is complete. The above Indemnification provision is separate and is not limited by the type of insurance or insurance amounts stated above.

C. The Contractor shall specify the Owner and the Engineer as additional insureds for all coverage except Workers' Compensation and Employer's Liability. The Certificate of Insurance must name as an additional insured the Owner and the Engineer, excluding worker's compensation and professional liability; must provide that such insurance is primary to any other insurance available to the additional insureds with respect to claims covered under the policy; and must provide that such insurance coverage applies separately to each insured against whom claims are made or suit is brought; but the inclusion of more than one insured shall not operate to increase the insurer's limit of liability.

D. All insurance coverage shall be written with an insurer having an A.M. Best Rating of a least the "A" category and size category of VIII. Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to the Owner. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to the Owner for approval.

E. The Contractor's and its Subcontractors' Certificates of Insurance shall be mailed to the Owner at City of Wauchula, 126 South 7th Avenue, Wauchula, Florida 33873. To the extent necessary, the Contractor shall thereafter provide the Owner an annual Certificate of Insurance satisfactory to the Owner to evidence such coverage. Such Certificates of Insurance will provide that there shall be no termination, non-renewal, modification or expiration of such coverage without thirty (30) days prior written notice to the Owner.

F. The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until thirty (30) days after receipt of written notice by the Owner.

G. If there is any failure by the Contractor to comply with the provisions of this section, the Owner may, at its option, on notice to the Contractor, suspend the work for cause until there is full compliance.

H. Owner may, at its sole discretion, purchase such insurance at the Contractor's expense provided that the Owner shall have no obligation to do so and if the Owner shall do so, it shall not relieve the Contractor of its obligation to obtain insurance.

I. Any subcontractors of the Contractor shall procure and maintain the insurance required of the Contractor hereunder during the life of the subcontract. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by the Contractor.

J. The subrecipient shall, or cause its contractor or consultant to carry and keep in force, during the term of this Agreement, a general liability insurance policy or policies with a company or companies authorized to do business in Florida, affording public liability insurance with combined bodily injury limits of at least $200,000 per person and $300,000 each occurrence, and property damage insurance of at least $200,000 each occurrence, for the services to be rendered in accordance with this Agreement. The Subrecipient shall also, or cause its contractor or consultant to carry and keep in force Workers'

Compensation Insurance as required by the State of Florida under the Workers' Compensation Law. With respect to any general liability insurance policy required pursuant to this Agreement, all such policies shall be issued by companies licensed to do business in the State of Florida. The Subrecipient shall provide to the Department certificates showing the required coverage to be in effect with endorsements showing the Department to be an additional insured prior to commencing any work under this Agreement. Policies that include Self Insured Retention will not be accepted. The certificates and policies shall provide that in the event of any material change in or cancellation of the policies reflecting the required coverage, thirty days advance notice shall be given to the Department or as provided in accordance with Florida law.

3.5.4 Title and Risk of Loss

A. Ownership, risks of damage to or loss of the Work shall pass to the Owner upon Final Acceptance of the work. The Contractor shall assume all risk of loss or damage to the Work while items are in transit and/or in the Contractor's custody until such time that the Owner issues written notice of Final Acceptance of the work.

SECTION 3.6: GENERAL PERFORMANCE OF WORK

3.6.1 Care of Property Owners

A. The Contractor agrees to provide excellent customer service throughout the execution of the Work during both scheduled Work hours and Overtime in the manner, as a minimum, as set forth below:
   1. The Contractor shall notify the affected property owners prior to any planned outages, line flushing, valve simulations and driveway construction. The notification will be produced by the Contractor and approved by the Owner's Representative.

   2. Within one (1) business day of receiving a concern from a property owner regarding the Work, the Contractor shall notify the Engineer in writing of each customer concern reported directly to the Contractor's personnel. Such notification shall include, as a minimum: the Contractor's name, date and time the concern was communicated to the Contractor, the name, address and phone numbers for the affected party, the nature of their concern and any action that was taken or any action currently underway to resolve the concern.

3.6.2 Workmanship

A. In addition to performing its Work in accordance with the Standard of Care, the Contractor shall perform all Work in a safe, workmanlike and professional manner, and so as to render a neat and uniform appearance. The Contractor shall handle all material in such a way as to preserve its finish and protective coatings from damage. General arrangement shall be satisfactory to the Engineer.

3.6.3 Work Location Cleanliness

A. The Contractor shall, at all times, keep the Work Location free from an accumulation of waste materials or rubbish caused by its operations. At the completion of the Work, the Contractor shall remove all waste materials and any rubbish from and about the project, as well as any tools, construction equipment, machinery and surplus materials, in accordance with applicable laws, rules and regulations. If the Contractor fails to clean up at the completion of the Work, the Owner may do so as provided elsewhere in the Contract and charge the cost thereof to the Contractor.

3.6.4 Surveying

A. Unless specifically stated in the Contract Documents as being provided by the Owner, the Contractor shall be responsible for all surveying necessary to commence and perform this Work. The Contractor shall employ a land surveyor registered in the State of Florida to reference and restore all property corners and/or monuments that may have been disturbed and to ensure accurate horizontal and vertical control during the construction of this project and for staking locations for new structures. Height and spacing of stakes are to be as specified elsewhere herein or as directed by the Engineer.

B. All Work shall be done to the lines, grades and elevations shown on the drawings. Any Work improperly located may be ordered removed and replaced at the Contractor's expense. The Contractor shall be responsible for making its own determination of water table variations and shall not assume that any water levels shown by the aforesaid boring data will necessarily be maintained at the level indicated. The Contractor shall investigate the conditions above or below the surface of the ground as it may deem necessary for the proper and timely performance of its Work including, but not limited to, the making of borings.

SECTION 3.7: SCHEDULES

3.7.1 Preliminary Schedules

A. Within ten (10) calendar days following the Effective Date of the Agreement, the Contractor shall submit to the Engineer the following items:

1. Preliminary Progress Schedule stating days or dates for starting and completing the various stages of the Work in an orderly manner within the Contract Times, indicating any milestones specified in the Contract.

2. Preliminary Schedule of Submittals, showing a reasonable schedule for reviewing and processing required submittals

3. Preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and reasonably subdivides the Work into component parts in sufficient detail to serve as the basis for

progress payments during performance of the Work. Prices shall include all overhead and profit.

4. Preliminary Schedule of Progress Payments (Draw Schedule).

B. No later than ten (10) calendar days prior to the date for the submittal of the first Application for Payment, the Contractor and the Engineer shall meet to review the acceptability of the Progress Schedule, the Schedule of Submittals and the Schedule of Values. The Contractor shall have an additional ten (10) calendar days following such meeting to make any adjustments and to resubmit the schedules.

C. The Engineer's approval of the any of the Schedules shall not relieve the Contractor of its sole responsibility for the Progress Schedule, the sequence and scheduling of Work, and the progress of the Work.

D. No progress payments shall be made to the Contractor until the Engineer has approved the Schedules.

E. Upon reasonable written request from the Owner, the Contractor shall furnish to the Owner such evidence as the Owner may reasonably require relating to the Contractor's ability to fully perform the Work in the manner and within the time specified by this Agreement.

3.7.2 Work Days

A. The work schedule is established on the basis of working five (5) days per week, eight (8) hours per day. The Owner may require the Contractor to base its schedule on an accelerated Work Schedule or multiple shifts. The Contractor shall not schedule work on Holidays without obtaining prior written approval from the Owner.

B. The Contractor shall, at no additional cost to the Owner, increase or supplement its working force and equipment and perform the Work on an Overtime or multiple shift basis when directed by the Owner and upon notification that the Contractor is behind schedule. The Contractor shall submit a revised schedule in writing demonstrating the Contractor's schedule recovery plans.

C. The Contractor understands and agrees that the rate of progress set forth in the Approved Schedule already allows for ordinary delays incident to the Work. No extension of the Contract Time will be made for ordinary delays, inclement weather (except as set forth in Section 19, "Force Majeure"), or accidents, and the occurrence of such events will not relieve the Contractor from the requirement of meeting the Approved Schedule.

3.7.3 Changes to the Progress Schedule

A. The Contractor may submit proposed revisions to the Progress Schedule to the Engineer for review provided that they do not change the Contract Time, and the Engineer may adjust the Progress Schedule from time to time.

B. Proposed changes to the Progress Schedule that change the Contract Time will only be made in accordance with Section 14, “Changes to Work.” Adjustments to the Contract Time shall only be made via Change Order.

C. The Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS for additional information regarding Progress Schedules.

SECTION 3.8: MATERIALS, TOOLS & EQUIPMENT

3.8.1 Temporary Utilities

A. The Contractor shall furnish and install all temporary water, electricity and other utilities required to accomplish the Work. The Contractor shall obtain the water required for carrying out the Work from fire hydrants, existing water main connections, or new connections approved by the Owner. The Contractor shall install a back flow preventer and water meter assembly if construction water is necessary. Upon Substantial Completion of Work, the Contractor shall remove all evidence of temporary connections and lines.

B. Prior to initiating any construction Work, the Contractor shall coordinate and schedule the provision of temporary utility service required during construction and arrange for the permanent installation and connection of utilities for the completed Work.

3.8.2 Material Delivery Locations

A. The Contractor shall notify, in writing, the Engineer of all planned material delivery/receiving locations. Such notification shall be prior to initiation of shipment. The Engineer will provide the Contractor with specific written approval for each delivery/receipt location, which will not be unreasonably withheld.

3.8.3 Storage of Equipment

A. The Contractor shall be responsible for all storage of materials, equipment, vehicles, tools, and all other items associated with the Work. Such storage shall comply with applicable regulations appropriate for the items being stored to ensure suitable care for items and protection from theft, vandalism, or inappropriate use. The Contractor is solely responsible for the costs for such storage, unless otherwise indicated in the Contract Documents, and any costs associated with noncompliant storage including, but not limited to, loss and damage to items. In the event that the Owner directs the Contractor to stop the Work, costs associated with storing equipment or materials will be compensated in accordance with the provisions stated herein in Section 14, "Change in

Work." The Contractor shall ensure that the Engineer has access to Work-related storage on an as needed basis during regular Work Hours and Overtime.

3.8.4 Contractor Laydown Area

A. In the event the Contractor decides to utilize public or private property as a laydown area, the Contractor shall enter into a written agreement with the entity or individual who owns the property. The Owner shall have access to all laydown areas. Upon submission of the Contractor's first Invoice or application for payment to the Owner, the Contractor shall provide the Owner with a copy of such signed written agreement. The Contractor shall submit to the Owner a letter of release from the entity in connection with Contractor's final Application for Payment to the Owner.

3.8.5 Substitutions

A. Whenever materials or equipment are specified or described in the Contract by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required.

B. Materials or equipment of other suppliers may be accepted by the Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named.

C. The Contractor shall make written application to the Engineer for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified.

D. The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice the Contractor's completion of the Work within the Contract Time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other Contract directly with the Owner for Work on the Contract) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fees, royalties, permits or any other costs.

E. All variations of the proposed substitute from that specified shall be identified in the application and available maintenance, repair and replacement service shall be indicated.

F. The application shall also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other Companies affected by the resulting change, all of which shall be considered by the Engineer in evaluating the proposed substitute.

G. Requests for review of substitute items of material and equipment will not be accepted by the Engineer from anyone other than the Contractor.

H. The Engineer may require the Contractor to furnish, at the Contractor's expense, additional data about the proposed substitute.

I. If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract, the Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the Engineer, if the Contractor submits sufficient information to allow the Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract.

J. The Engineer will be allowed a reasonable time within which to evaluate each proposed substitute; such time shall not be deemed justification for an extension of the Contractor's time for completion of the Contract.

K. The Engineer will be the sole judge of acceptability, and no substitute shall be ordered, installed or utilized without the Engineer's prior written notice, which shall be evidenced by a Change Order.

L. The Owner may require reimbursement for the cost associated with the Engineer’s evaluation of substitutions.

M. The Owner may require the Contractor to furnish, at the Contractor's expense, special performance guarantee bonds or other surety with respect to any substitution.

3.8.6 Disposition of Salvage Material

A. All material to be removed from the Work Location, relocated or salvaged, shall be inspected by the Engineer immediately prior to removal, and the Engineer's decision as to the salvageability shall be final. Such material that can be salvaged, in the opinion of the Engineer, shall be stored at the Work Location on-site by the Contractor, as and where directed by the Engineer, or delivered to a location as directed. Under no circumstances may existing structures, plant or facilities be removed or demolished without obtaining prior written approval from the Contract Administrator.

3.8.7 Tools and Equipment

A. All tools and equipment used in the performance of the Work shall be used as intended by the manufacturer and in accordance with manufacturer operating manuals and industry practices, whichever is more stringent. The Contractor shall ensure that all tools and equipment used in the performance of the Work shall be of the size and quality suitable for safe and efficient performance of the Work. If the Contractor-provided tools and equipment do not meet these requirements, or if in the sole opinion of the Owner formed after considering relevant factors, the tools or equipment are inappropriate for performance of the Work, the Contractor agrees to remove the unacceptable tools and equipment and obtain tools and equipment the Owner considers suitable. Such

replacement shall be entirely at the Contractor's expense, and no change to Contract Time will be allowed.

B. The Contractor is responsible for furnishing the security of any and all tools and equipment required to perform the Work.

SECTION 3.9: SAFETY & SECURITY

3.9.1 Safety and Protection Precautions

A. The Contractor shall comply with all applicable federal, state and local laws, ordinances, all Owner procedures and policies, and orders of any public body having jurisdiction for the safety of persons or protection of property. The Contractor understands and agrees that violation of any provision of this clause is grounds for immediate termination of the Contract and the Contractor is responsible for all Owner damages associated with such termination.

B. The Contractor shall ensure that Subcontractors and their personnel have all the necessary personal protective equipment and training needed to perform the Work safely.

C. The Contractor understands and agrees that it is responsible for paying all costs associated with providing a safe work environment including, but not limited to, any costs associated with any Owner directed safety improvements. The Contractor further understands and agrees that it is solely responsible for the safety of personnel and property associated with the Work, and that any actions taken by the Owner or the Owner's Representatives to prevent harm to persons or damage to equipment does not, in any way, relieve the Contractor of this responsibility.

D. The Contractor's Representative, or alternatively, the Contractor's Supervisor, shall be designated as the Contractor's individual responsible for the prevention of accidents.

E. The Contractor shall notify the police and fire departments as to its Work Location in order to ensure prompt response in an emergency.

3.9.2 Emergency Events

A. In the event that a system-wide emergency arises during the Term of this Contract for which the Owner requires assistance from the Contractor including, but not limited to, severe storms, large-scale fires, floods, and terrorist attacks, the Contractor acknowledges the importance of Owner infrastructure and agrees to support, with all its resources, skills and capabilities, and the maximum extent possible, all restoration efforts of the Owner. The Owner shall notify the Contractor when an emergency event occurs and the Contractor agrees to mobilize its full resources immediately. In the event conditions are such that an emergency event is likely in progress, but the Contractor has not been notified by the Owner, the Contractor shall make all efforts to contact the Owner

to determine if and how it should respond. The Owner agrees to reimburse the Contractor for its actual costs incurred, plus overhead and profit, the total not exceeding twelve percent (12%), and any one-time expended cost incurred as a result of supporting the Owner during the emergency event.

3.9.3 Emergency Procedures

A. In emergencies affecting the safety of persons, the Work or property at the Work Location or any other area adjacent thereto, the Contractor, without special instructions or authorization from the Owner, is obligated to act to its best ability, to prevent threatened damage, injury or loss to the Work, any persons, or property. The Contractor shall give the Owner prompt written notice describing the emergency, its cause, actions taken, injuries and casualties, property damage, other damages, and impact on continued performance under this Contract.

3.9.4 Storm Preparedness

A. In the event of a Hurricane Warning, Tropical Storm Warning, or other large storm affecting the Work Location, the Contractor shall secure, or shall remove and store all equipment and materials at the Work Location including, but not limited to, cones, barricades, lights and signs. The Contractor shall begin taking such precautions as necessary to secure the Work Location upon official issuance of mandatory evacuation of the area of the Work Location and no later than twenty-four (24) hours prior to predicted arrival of tropical storm or hurricane force winds, or when notified by the Owner to do so. These activities are considered a regular part of the Work, regardless of the frequency they are required.

3.9.5 Weather Protection

A. The Contractor shall provide proper facilities, take all necessary precautions and assume the entire cost for protecting the Work against weather conditions and for handling all storm, flood and ground water, sewage, or other seepage, that may be encountered during the performance of the Contract. The Contractor shall provide for such contingencies and for carrying on the Work in freezing weather by methods that meet with the approval of the Engineer. If the Contractor fails to provide such protection, or in the event of an emergency, the Owner may provide such protection at the Contractor's expense.

3.9.6 Project Security

A. The Contractor shall provide, at its expense, on-site security personnel at any time the facility's perimeter is unsecured, including but not limited to, alarms disabled, fences or gates down, traffic flows that require gates to be opened repeatedly and/or for more than one hour of the work day. The Contractor shall schedule security personnel. Where existing lighting is disabled or otherwise impacted by the Work, the Contractor shall provide temporary lighting equal to or exceeding that which exists.

3.9.7 Protection of the Environment

A. The Contractor shall immediately notify the Owner of any Hazardous Materials encountered during the Work and shall immediately cease work in the affected area until further direction is received from the Owner.

B. The Contractor and its Subcontractors and Suppliers shall comply with all applicable laws, rules and regulations including, but not limited to, all Environmental Requirements.

C. Asbestos, Lead, or Toxic Mold may be present at the Work Location. The Contractor shall notify the Engineer immediately upon discovery of asbestos, lead, toxic mold. The Contractor shall not disturb or remove known or discovered asbestos, lead, or toxic mold unless directed by the Engineer.

D. Hazardous Materials:

1. The Contractor shall bear full responsibility including, but not limited to, payment and liability for the transportation, use and disposal of any Hazardous Materials under the Contractor's control during the performance of the Work. Disposal of Hazardous Materials should only be disposed of at Owner approved facilities. The Contractor shall provide the Owner with appropriate documentation showing proper disposal of its Hazardous Materials.

2. The Owner has identified and labeled equipment known to contain PCBs. The Owner will remove and transport any equipment so identified. The Contractor shall not remove or transport any equipment containing PCBs. The Contractor shall immediately notify the Owner of any questionable or unmarked equipment and the Owner will arrange for testing and identification.

E. Toxic Substances Introduced by the Contractor:

1. The Contractor shall notify the Engineer in writing of the type, quantity and disposal method of any toxic substance used during the performance of the Work. The Contractor shall be solely responsible for the use and disposal of any such toxic substances. The Contractor shall submit cleanup procedures to the Owner for review and written approval prior to the use of the toxic substance. In the event that a toxic substance escapes into the environment, the Contractor shall immediately notify the Engineer in writing of the occurrence and the actions taken. In the event that the Contractor encounters toxic substances in the course of construction, the Contractor shall immediately notify the Engineer verbally, with a written notification to follow. The Engineer shall arrange for disposal by the Owner.

2. The Contractor will be solely responsible for all waste material including paints, lubricants, fuels, solvents, and other chemicals used in connection with the Work. The Contractor will provide proper containers for waste materials and comply with all

applicable laws, rules and regulations in their disposal. The Contractor will dispose of all empty containers off-site as soon as possible. The Contractor will designate one area for transferring paints and solvents from large containers (55-gallon drums) into smaller containers for daily use.

F. The Contractor understands and agrees that the Work Location may include wetlands or other environmentally sensitive areas. The Contractor shall not enter these areas during the performance of its Work, unless specifically authorized by the Engineer and appropriate state and federal permits have been obtained.

G. The Contractor and/or Subcontractor's employees shall not endanger wildlife species or domestic animals of any kind.

H. The Contractor shall immediately cease any activity that causes or results in a violation of the Owner's or the Contractor's environmental permits or federal, state and local laws and regulations. Such violation shall immediately be reported to the Engineer verbally, with written notification to follow. All additional costs due to the Contractor's noncompliance with the applicable environmental permits or Environmental Requirements shall be paid by the Contractor.

SECTION 3.10: OTHER WORK AND OTHER PROPERTY

3.10.1 Encroachments on Rights or Property

A. The Contractor shall be solely responsible for any encroachments on public property or on the rights or property of adjoining property owners to the Work Location, and shall hold the Owner harmless because of any encroachments that may result because of the Contractor's improper layout. In this regard, the Contractor shall, without extra cost to the Owner, remove any Work or portion of any Work that encroaches on the property other than that of the Work Location, or that is built beyond legal building or setback limits. The Contractor shall rebuild the affected Work or portion of Work at the proper location and in full compliance with the Contract Documents.

3.10.2 Interference With Existing Utilities

A. The Contractor acknowledges and agrees that there is a possibility that existing the Owner or other utility facilities may cross and/or lie parallel to excavations in the area where Work will occur. Although the Owner may indicate recorded obstacles on the drawings, it does not warrant that other subsurface obstacles do not exist. The Contractor shall be responsible for verifying the data furnished by the Owner and for fully investigating and locating additional obstructions including every type below, on or above the ground. The Contractor should regard these impediments as normal to construction. All costs for performing such work shall not be paid for separately, but shall be included in the Contractor's costs on the Bid Form.

B. The Contractor shall comply with all requirements of the Underground Facility Damage Prevention and Safety Act, Chapter 556, *Florida Statutes*.

C. In the event the Contractor encounters an unidentified utility during performance of the Work, the Contractor shall promptly cease Work in the affected area and shall immediately notify the Owner's Representative in writing. The Owner will investigate the area and propose remedial actions in accordance with the provisions stated herein in the Section 14, "Changes to Work."

D. The Contractor shall work in cooperation with the Owner and representatives of existing utilities to plan and coordinate putting new Work into service so as not to interfere with the operation of the existing utilities. Such plans shall be adhered to unless deviations therefrom are expressly permitted in writing by the Contract Administrator.

E. The Contractor shall at all times conduct the Work in a manner that interferes as little as possible with the existing utilities. Any cables exposed during construction, whether energized or not, must be handled and protected as if they are energized. The Contractor shall so conduct its operations and maintain the Work in such condition that adequate drainage shall be in effect at all times. The Contractor shall not obstruct existing gutters, ditches and other runoff facilities. When working in the vicinity of overhead lines, the Contractor shall request line rubber protection and pole holding services from the Owner of the overhead lines at least ten (10) calendar days in advance of performing the work.

F. The Contractor shall be solely responsible for any damages, interferences, and interruptions of service caused to any utility's assets and services including water, sewer, electric, telephone, gas, cable, and other utility services, that result from the Contractor's failure to fulfill the above stated requirements.

G. In the event the Contractor damages an existing utility, the Contractor shall immediately notify the property owner, the owner of the damaged utility and the Engineer. Should the damage cause an interruption of service, the Contractor shall be responsible for restoring service as soon as possible; however, the Contractor shall not make repairs, other than any required to restore safe conditions, without the approval of the property owner, or the owner of the damaged utility. The Contractor shall be responsible for coordinating any repair effort, and any associated costs should the utility owner or a licensed repair contractor be required to make the repair. The Owner reserves the right to deduct any unsettled claim amount from Contractor's invoices until such time as the claim is satisfactorily resolved.

3.10.3 Interference with Other Owner Work or Other Companies

A. The Contractor shall perform the Work in a manner that minimizes the interference with other Owner work, or with work performed by other companies. The Contractor shall coordinate the Work with other persons and companies employed by the Owner. If a difference of opinion regarding scheduling or coordination of the work arises between the Contractor and another Owner contractor(s) performing work at the Work Location,

the Owner may arbitrate the matter. In such cases where the Owner makes a decision regarding the scheduling or coordination of the work, the Contractor agrees to fully abide by the Owner's decision. Unless otherwise agreed in writing by the Owner, the Owner will not be responsible for additional costs.

B. Any claims arising against the Contractor from damages to other companies' work, equipment, machinery, tools or other property shall be settled directly between the Contractor and the other companies involved. The Owner will not, in any way, be a party to arbitrating or mediating any such disputes, nor shall the Owner be responsible for any costs associated with such disputes.

3.10.4 Interference with Railroads

A. The Contractor shall not build across, into, over or under, either temporarily or permanently, any portion of a railway or railway right-of-way without first obtaining all required permits. If the Contractor's operations render any railroad unsafe, the Contractor shall immediately notify the Engineer, and the railroad owner and take appropriate actions and such temporary safeguards as required to protect life, limb, and property, and to maintain orderly traffic.

B. The Contractor shall procure all railroad permits required for the Work beyond those procured by the Owner and the costs for such permits shall be included in the Bid Documents. All costs associated with railroad fees for railroad flagmen, watchouts, inspectors, supervisors, any additional training of Contractor's employees that is required by applicable laws, rules and regulations when performing Work in association with railways, any certifications required for successful completion of the Work and all other associated costs shall be included in the Bid Form.

3.10.5 Interruption of Service

A. The Contractor shall not operate any valves, nor otherwise interrupt water and/or sewer service, without first obtaining permission from the Owner. The Owner shall be present during any interruption of service.

B. If the Contractor must shut down a main or portion of a main, thereby causing an interruption of water service, the Contractor shall provide the Owner with the following information, in writing, a minimum of five (5) business days in advance of any anticipated interruption of service:

1. Date and time of outage.

2. Purpose of the outage.

3. Map of the area to be affected by the outage.

4. Letter stating all offices, businesses, and residents have been or will be notified by the Contractor at least four (4) business days in advance of the outage (unless the Owner chooses to issue such notification).

C. The Contractor is not authorized to proceed with the requested Work without prior written notice from the Owner that such actions are approved.

D. In the event of a major emergency that endangers life or property, the Contractor may take immediate action before notifying the Owner. In all cases, however, the Owner shall be notified in writing at the earliest opportunity after addressing the emergency.

3.10.6 Protection of Existing Facilities and Grounds

A. The Contractor shall be responsible for protecting all the existing facilities including, but not limited to, buildings, lawns, landscaping, sprinkler systems, and pavements, both public and private, that are encountered during the performance of the Work. At all times, the Contractor shall cooperate with the owners of such facilities by arranging and performing the Work in and around such facilities in a manner that facilitates their preservation, relocation, and/or reconstruction. The Contractor shall be responsible for the full restoration or replacement if the Contractor damages such facilities during or resulting from performance of the Work.

B. The Contractor shall verify the existing dimensions and clearances before laying out the Work. When the Work involves the laying of utility lines across landscaped areas and grassed areas, which may include, but is not limited to, irrigation systems, streets, sidewalks, and other paved areas, the Contractor shall protect and preserve all trees, shrubs, palms, landscaping, etc., and restore such areas and all paved areas to their original sound conditions using construction techniques and materials that are the same as existing including replacing plants and trees with those of similar size and age. In the case of planted areas, the Contractor shall maintain the restoration Work until positive growth has been acknowledged in writing by the Engineer.

C. All costs for such restoration and replacement work shall be included in the associated lines on the Bid Form, and shall not be paid for separately.

D. The Contractor shall not (except upon written consent from the property owner and Contract Administrator) enter or occupy with workers, tools, equipment or vehicles any land outside the easements, right-of-ways, or the Owner’s property.

3.10.7 Temporary Closure of Roadways

A. The Contractor shall not close or obstruct any portion of a street, road, or private way without first obtaining permits. If any street or private way is rendered unsafe by the Contractor's operations, the Contractor shall make such repairs or provide such temporary ways and guards necessary for the protection and safety of persons on the

Work and the public and for the orderly maintenance of traffic. All costs associated with temporary closure of roadways shall be included in the Bid price.

B. The Contractor shall notify the police and fire departments in writing if it will be necessary to close a street. The Contractor shall copy the Owner on all correspondence relating to street closure. The Contractor shall notify the police and fire departments prior to closure of the street. The Contractor shall be responsible for maintaining proper coordination with the proper authorities.

C. Temporary closure of business entrances must be approved in writing by and coordinated with the Owner.

D. For the purposes of this Contract, the Contractor shall refer to the DIVISION 6: TECHNICAL SPECIFICATIONS.

SECTION 3.11: DRAWINGS

3.11.1 Shop Drawings

A. The Contractor shall submit all Shop Drawings according to the Schedule of Submittals approved by the Engineer and the DIVISION 6: TECHNICAL SPECIFICATIONS.

B. Shop drawings shall establish the actual quantities, dimensions, materials and specified performance and design details of all manufactured or fabricated items, services and equipment that Contractor proposes to provide for the Work; indicate proper relation to adjoining Work; amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure; and incorporate minor changes of design or construction to suit actual conditions.

C. Shop drawings shall be complete in every detail, properly identified with the Contract name, Contract and subsection number for identification of each item, and state the qualifications, departures or deviations from the Contract, if any. Shop drawings for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. Each drawing shall have a clear space above the title block in the lower right-hand corner for the approval stamps of the Contractor and the Engineer.

D. In checking the Shop Drawings, the Contractor shall:

1. Verify all dimensions and field conditions, and shall check and coordinate the Shop Drawings of any section or trade with the requirements of all other sections or trades whose Work is related thereto, as required for proper and complete installation of the Work.

2. Verify all rough-in and connections for utilities shall conform to approved equipment Shop Drawings

3. Review and coordinate each Shop Drawing with other Shop Drawings and the Contract Documents

4. Determine and verify all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety programs.

E. The Engineer will review the Shop Drawings and will return them to the Contractor stamped to indicate the action taken. For planning purposes, the Contractor shall allow a minimum of two (2) weeks for review of each Shop Drawing. The stamp will indicate that the Shop Drawing is "No Exception Taken", "Make Corrections Noted", "Revise and Resubmit" or "Rejected". Only those Shop Drawings stamped "Revise and Resubmit" or "Rejected" shall be resubmitted for subsequent review. Resubmittals shall be in the same form and number of copies as original submittals, with notation indicating a revised submittal. The Shop Drawings stamped "No Exception Taken" or "Make Corrections Noted" will be returned to the Contractor, who will be responsible for obtaining prints thereof and distributing them to the field and Subcontractors.

F. At the same time the Engineer returns a reviewed submittal to the Contractor it will forward two copies of each item stamped "No Exception Taken" or "Make Corrections Noted" together with any conditions of approval, to for field and office use. The Engineer may revoke approval of Shop Drawings, should field conditions so dictate.

SECTION 3.12: INSPECTIONS, QUALITY & REPORTING

3.12.1 Contractor's Daily Reports

A. The Contractor shall complete and submit daily reports for each calendar day of the Work, starting with the date of the Notice to Proceed, and said reports shall be submitted to the Owner's Representative by noon of the following workday. The Contractor's failure to submit the daily reports as specified herein will be grounds for withholding payments.

B. Upon review of the Contractor's Daily Reports, any discrepancies in the information noted by the Owner's Representative will be provided to the Contractor. A revised Daily Report will be resubmitted within one (1) business day.

3.12.2 Reporting

A. The Contractor shall provide the reports as defined in the Contract Documents. The Contractor shall refer to DIVISION 6: TECHNICAL SPECIFICATIONS.

B. Where the reporting frequency is daily, reports shall be submitted by noon of the following workday. Where the reporting frequency is weekly, reports are due by Monday at noon, covering the prior workweek. Where Monday is a Holiday, the reports are due at noon on the next workday. Where reports are due monthly, reports are due by noon

on the first business day of each month. Sample forms for reports may be included in the Contract Documents. Where they are included, they are to be used. Where they are not included, the Contractor shall provide a sample of its proposed report format for each report to the Engineer at least one (1) week prior to its initial due date. The Engineer will review and either approve or reject the use of the report. Where the proposed report is rejected, the Contractor shall resubmit revised report formats, until the Engineer approves format. The Reporting Cycle shall begin on the Notice to Proceed date or the date of the purchase order, if used.

C. Where the Contract calls for reports to be submitted by the Contractor, such reports shall be in both paper and electronic format, with the electronic version submitted electronically via email to the Engineer.

3.12.3 Quality Control and Quality Assurance

A. The Contractor shall provide Quality Control to ensure the Work is performed in accordance with the Contract and in adherence with the Standard of Care. Quality Control shall be appropriate for the nature of the Work, and shall be conducted in a manner consistent with sound quality management and industrial engineering principles. The Contractor shall have only personnel trained in Quality Control techniques and experienced with the nature of the Work perform the Quality Control function.

B. The Owner may perform Quality Assurance activities. Such activities, whether performed or not, do not in any way limit or reduce the Contractor's requirements. The Owner may become aware of quality related problems during its performance of Quality Assurance, but has no obligation to notify the Contractor of its findings. The Contractor shall provide access to all areas of Work, including the Contractor's facilities, for the Owner’s Quality Assurance personnel and the Owner’s Representatives. The Owner will conduct Quality Assurance activities so as not to excessively interfere with the Work, however, where the Owner Quality Assurance personnel request specific actions of the Contractor, the Contractor shall comply with the request and agrees that such compliance is included as part of its Contract Price.

C. The Contractor shall refer to DIVISION 6: TECHNICAL SPECIFICATIONS.

3.12.4 Inspections and Testing

A. The Owner, or its designated representatives, will perform inspections at the Contractor facilities during normal business hours and in a manner that minimizes disruption to the normal day-to-day work activities of the Contractor. Contractor shall provide safe and proper facilities for inspection access and observation of the Work and also for any inspection or testing by others.

B. If the Contractor has covered or concealed any Work from inspection in any way that the Engineer has not specifically requested prior to the Owner’s Representative’s inspection, or if the Engineer considers it necessary or advisable that covered Work be inspected or

tested by others, the Contractor, at the Engineer's request, shall uncover, expose or otherwise make available the portion of the Work in question for observation, inspection or testing as the Engineer may require. The Contractor shall furnish all necessary labor, material and equipment to make such Work available.

C. The Contractor shall bear all expenses of uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including, but not limited to, compensation for additional professional services required by the Owner, and no change in Contract Time will be considered as a result of the foregoing.

D. The Owner may, at its sole discretion, grant the Contractor an extension of the Contract Time directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

E. All materials and equipment used in the construction of the Contract shall be subject to adequate inspection and testing in accordance with accepted standards. The Contractor shall select the laboratory or inspection agency for making all tests required by the specifications, and shall pay for this laboratory service direct, as a part of this Contract.

G. The Contractor shall pay for all required testing of materials and equipment. Two (2) copies of each test showing certification of each test shall be furnished to the Engineer immediately after such test has been made and with the exception of concrete, prior to delivery of the materials or equipment tested to the Work Location. The Owner will not accept the materials or equipment until tests have been approved.

H. Materials of construction, particularly those upon which the strength and durability of the structure may depend, shall be subject to inspection and testing to establish conformance with specifications and suitability for uses intended. Test requirements for all materials are set out in the detailed specifications for that particular material. All materials and equipment prior to being incorporated in the Work, and required by the Engineer to be tested, shall be tested for conformance with contractual requirements. Standard items of a uniform nature may be accepted on the manufacturer's certification. Where specific performance and/or quality is referred to, it is the Contractor's responsibility to have the necessary tests performed by qualified persons to show that the contractual requirements are being met except those tests named in the Contact Documents to be performed by the Owner. Certified test results shall be submitted promptly in quadruplicate to the Engineer for review. All tests shall be performed in accordance with referenced standards. Where no reference is made, tests shall be performed in accordance with the methods prescribed by the American Society for Testing and Materials or such other organization as would be applicable.

I. The Contractor shall pay for any retests resulting from its failure to provide Work that passes required tests.

J. The Engineer, or the Owner appointed Inspectors may inspect any and all materials and Work. Such inspection may extend to any or all parts of the Work and to the preparation

and manufacture of the materials to be used. The Inspectors shall not be authorized to alter, revoke, enlarge or relax the provisions of the Contract, nor will they be authorized to approve or accept any portion of the completed Work, nor to issue instructions contrary to the Contract. The Inspector shall inform the Engineer of the progress of the Work and the manner in which it is being done, and notify the Contractor of any infringement upon the Contract Documents. The Inspectors will have the authority to reject defective materials or to suspend any Work that is being improperly done subject to the final decision of the Engineer.

3.12.5 Performance Evaluation

A. The Owner may, upon completion of the Work or at any time during the Work, issue to the Contractor a written performance evaluation of the Contractor's performance of Work under this Contract. The evaluation will be based upon the Owner's and the Engineer's reports, inspections, and first-hand experience in dealing with the Contractor and the Contractor's representatives. The performance evaluation will indicate whether the Contractor's performance has been deemed "Satisfactory," "Unsatisfactory" or "Top Performance" with regard to the following criteria:

1. Timeliness;
2. Customer Service to Owner;
3. Care of Owner's Customers;
4. Financial Performance;
5. Quality of Workmanship;
6. Quality of Materials & Equipment;
7. Safety;
8. Environmental;
9. Compliance with MBE/WBE Requirements; and
10. Project Administration.

SECTION 3.13: OWNER-FURNISHED ITEMS

3.13.1 Conditions of Provisioning

A. The Contractor understands and agrees that it shall be solely responsible for providing everything necessary to perform the Work and to be in full compliance with the Contract Documents, except for those items specifically listed herein as being provided by the Owner.

B. Any use of Owner-furnished items on non-Owner work is a breach of the Contract and a violation of the law. All Owner-furnished items are the property of the Owner when issued, stored by Contractor, and used in performance of the Work. The Contractor agrees that it shall use all Owner-furnished items in a manner consistent with industry practice, codes, laws, considering the condition of the Owner-furnished item, the skills of the individuals using the Owner furnished item, and all environmental conditions. The Contractor understands and agrees that where the Owner and the Contractor shall share Owner-furnished items, Owner usage shall always have priority over Contractor usage, and the Contract Administrator shall have sole authority to resolve any usage dispute and such resolution shall not result in any claim by Contractor.

C. The Contractor agrees to return to the Owner, and to the location as established by the Engineer, any unused or salvageable items prior to final payment. The Contractor agrees that the Owner has the right to audit and investigate at any time how the Contractor is using Owner-furnished items. The Owner will bill the Contractor for unaccountable Owner-furnished material at the current Owner cost.

3.13.2 Access to Work Locations

A. The Owner will provide, as indicated in the Contract Documents, and no later than the date when needed by the Contractor, access to the Work Location, including rights-of-way or access thereto, and such other lands that are designated for the Contractor's use. The Owner will secure easements for permanent structures or permanent changes in existing facilities, unless otherwise specified in the Contract Documents.

3.13.3 Contract Documents

A. After Contract Award, the Owner will furnish a maximum of one (1) complete set of the Contract Documents, or portions requested thereof, upon request by the Contractor. Additional copies will be supplied at cost to the Contractor.

3.13.4 Site Conditions

A. The Owner will provide to Contractor test data results from field tests. Such data has been determined by the Owner to be sufficient to describe the conditions to be expected during the performance of the Work. The Contractor shall not be entitled to any claim for additional costs associated with any ground related Work, unless the actual conditions found substantially differ from those described by the test data.

B. The Contractor is responsible for verifying Site conditions and obtaining additional data as the Contractor deems necessary. The Contractor will be responsible for all costs associated with the gathering of additional Site data.

SECTION 3.14: CHANGES TO WORK

3.14.1 Unforeseen Conditions

A. The Contractor understands and agrees that it is its responsibility to conduct due diligence prior to the start of Work. Such due diligence includes, but is not limited to, verifying all Work conditions, measurements, dimensions and latent and patent obstructions, the accuracy of drawings, test results, inspections and other informational materials provided in the Contract Documents, and any other causes for existing or potential changes to the Work prior to initiating the Work. In the event that the Work must be changed due to the Contractor's failure to fulfill the above requirements, the Contractor understands and agrees that it will be responsible for all costs associated with the changed condition.

B. In the event, however, that the Contractor exercises the requisite due diligence and a change to the Work becomes necessary resulting from conditions that are clearly unforeseen and that could not have been discovered, the costs for adjusting the Work in response to such unforeseen conditions shall be addressed as stated herein in Article 3.14.2 below titled "Changes in the Work and Change Orders."

3.14.2 Changes in the Work and Change Orders

A. The Engineer may issue to the Contractor a written Field Order to authorize minor changes to the Work having no impact on Contract Price or Contract Time. If the Contractor anticipates that the Field Order work will impact the Contract Price or Contract Time the Contractor should immediately notify the Engineer.

B. In the event of an emergency endangering life or property where it is appropriate for the Contractor to take action, the Contractor shall undertake such actions to preserve life and property. The Owner and the Contractor will determine after emergency is concluded, the extent of out-of-scope work performed by the Contractor, and the Owner will issue a Change Order or amend the Contract for such work, if any and as necessary.

C. Anything to the contrary notwithstanding, in the event that the Owner determines that a change must proceed immediately or if the Owner rejects all or a portion of the Contractor's estimated effect of a change, then the Owner may direct, and the Contractor shall commence immediately and perform until completion, the necessary services to implement the change. The Owner will issue such direction in the form of a written Work Change Directive. The Contractor shall be compensated for such change in the work, notwithstanding any objections of the Contractor, which objections shall be preserved and not waived by the Contractor's commencement or performance of the Work as directed by the Owner.

D. To request or claim any change in the Work including, but not limited to change in scope, quantities, pricing, or schedules, the Contractor shall submit a letter to the Engineer stating such request or claim. The Engineer shall review and submit a written recommendation to the Owner. The Owner shall have the right to approve or disapprove any request or claim for change as it deems necessary and in its best interests consistent with the other Contract requirements. Whether requested by the Contractor, claimed by the Contractor, or contemplated by the Owner, no change shall be authorized unless made on an Owner Change Order signed by the Contract Administrator or through a formal written amendment to this Contract.

E. All requests for changes filed by the Contractor shall be in writing delivered to the Owner's Representative within ten (10) business days of when the event that prompted the claim was discovered or should have been discovered. The Contractor's failure to timely submit a written claim will constitute a waiver of the right to pursue a claim. Upon receipt of the Contractor's claim notification, Owner's Representative will provide written direction as to the procedures that will be used to address the request. The Contractor's request shall be sufficiently detailed including itemized costs, condition and work descriptions and other information necessary to evaluate the merits of the claim. A cost breakdown showing all labor, material and equipment shall be provided. The Owner's Representative may reject requests providing insufficient supporting information. Any change in the Contract resulting from the request will be incorporated into the Contract via a Change Order or Purchase Order. Where the Engineer and the Contractor are unable to reach a mutually acceptable resolution of request, the Owner's determination will be final.

F. Where necessary, the Owner will determine the value of work covered by a change order using one of the following methods:

1. Where the work is covered by established unit prices contained in the contract, the unit price, if the Owner agrees that this is a fair and reasonable price; otherwise, a negotiated price will be applied to the quantity of work at the discretion of the Owner,

2. By mutual acceptance of lump sum price,

3. By actual cost and a mutually acceptable fixed amount for overhead and profit, or

4. Where Bid Price was based on estimated quantities, prior to making final payment, the Owner will determine actual quantities using sampling, surveying and other industry recognized means and prepare a Change Order adjusting the price to reflect actual volumes.

G. The Contractor shall immediately notify the Owner's Representative in writing of any unauthorized change in the scope of the Work or significant change in the quantities of the Work that may increase the Contract Price, require an extension of Work schedule, or negatively impact permitting or other regulatory requirements.

H. The Contractor shall submit requests or claims for a Work schedule adjustment in writing and delivered to the Engineer within five (5) business days following the discovery of the event that prompted the claim or when the event should have been discovered. Where accepted by the Owner, changes to the Approved Schedule will only adjust for critical path impacts. Failure to include the necessary critical path analysis with request shall be grounds for rejecting the claim. The path of critical events mentioned herein means the series of interdependent Work events that must be sequentially performed and that require a longer total time to perform than any other such series. Upon receipt of the Contractor's request for a change in the Work schedule, the Owner's Representative will provide any additional directions in writing detailing the procedures that will be used to resolve the request, including provision of time impact or manpower and equipment loading schedules. Where the Owner and the Contractor are unable to reach a mutually acceptable resolution of request, the Owner will make a commercially reasonable determination, made in accordance with the Owner's established policies and procedures, which shall be final.

I. All Work defined on Field Orders, Work Change Directives and Change Orders shall be subject to the conditions of the Contract, unless specifically noted on the Field Order Form, Work Change Directive Form, or Change Order.

3.14.3 Delay

A. Damage, loss, expense or delay incurred or experienced by the Contractor in the prosecution of the Work by reason of unforeseen circumstances, unanticipated difficulties and obstructions, bad weather, or other mischances that are generally considered to be a part of the usual hazards associated with Work, shall be borne entirely by the Contractor and shall not be the subject of any claim for additional compensation or change in Approved Schedule.

B. The Contractor agrees that its sole remedy for any claims, damages or losses related to any delay, disruption or hindrance alleged to be caused by the Owner or any of the Owner's agents or other contractors, shall be an extension of the Contract completion date. As such, the Contractor shall not recover any cost associated with extended home/field office overhead, idle labor/equipment/materials, subcontractors' claims or any other miscellaneous costs.

C. Any demand for equitable time adjustment must be served in writing to the Owner within five (5) calendar days of the event giving rise to any delay, disruption or hindrance. Any request for an equitable time adjustment shall be accompanied by a logical time impact analysis, demonstrating the nature and magnitude of the event to the critical path. Any request that is not clearly shown to be an impact to the project's critical path will be denied.

D. Failure to strictly comply with these requirements shall be deemed a waiver of any right to seek equitable adjustment.

3.14.4 Notification of Surety

A. The Contractor shall notify its surety of any changes affecting the general scope of the Work or altering the Contract Price.

3.14.5 Contingency Work

A. The Owner will issue a written Change Order to incorporate cost or schedule changes into the Contract. Issuance of a Change Order is solely at the discretion of the Owner. The Change Order shall be used for increases or decreases in the Contract Price, within the contingency amount set forth in the Contract Price, or to make changes in schedule for performance of the Work.

B. The Contractor should not expect that any Change Orders for contingency work will be issued. Owner shall have no obligation to pay for contingency work unless the same is performed pursuant to a written Change Order form signed before the contingency work is commenced.

C. The Contractor and the Engineer shall mutually agree to the pricing of a Change Order for contingency work. Any negotiated increase or decrease in the Contract Price shall be based on the Contractor's costs for labor, materials and supplies directly applicable to the increase or decrease plus ten percent (10%) thereof for Contractor's supervision, overhead, bonds and profit. For any negotiated increase or decrease, the Contractor will provide a complete detailed breakdown for all labor, material, and equipment, etc. associated with the change. A lump sum figure submitted with no breakdown will be returned to the Contractor without review.

D. Cost Reimbursable (Time and Materials) Method:

1. The Owner may, at its sole discretion, implement cost reimbursable procedures in order to limit the costs for performance of contingency work. Also, whenever the Contractor and the Owner are unable to agree on costs for an increase in the Work, the Owner or Engineer shall order the Contractor to proceed with the Work on a cost reimbursable (time and material) basis. The Owner will pay the Contractor for the contingency work in the manner hereinafter described, and the compensation thus provided shall constitute full payment for said work. The Owner shall issue the Change Order for the Contractor to perform the specific contingency work with payment determined as follows:

    a. For materials purchased by the Contractor and used in the work, the Contractor shall be paid the actual cost of such materials, including sales taxes if required, and freight and delivery charges as shown by original receipted bills. A mark-up amount equal to ten percent (10%) of the sum thereof shall be added to this cost. The Owner reserves the right to select and approve, or to reject the materials to be used and the sources of supply of any materials furnished by the Contractor.

b. The Contractor will be paid the cost of wages for all labor that is engaged in the Work, plus the actual cost chargeable to the Work for workers' compensation insurance, social security taxes, unemployment compensation insurance and such additional amounts as are paid by the Contractor. A total mark-up shall be added equal to ten percent (10%) of wages and other cost listed above. In evidence of the costs of labor the Contractor shall provide a certified statement of wages actually paid, together with copies of supporting payrolls. Wage rates used in determining the amount of the payment will be the actual wage rates paid by the Contractor for Work under this Contract, except that no rate used shall exceed the rate of comparable labor currently employed on the project.

c. Payment for the services of foremen in direct charge of the specific operation will be made. Payment for the service of superintendents, timekeepers or other overhead personnel will not be made nor will payment for the services of watchmen be made unless required specifically by the contingency Work. The actual function performed by an employee rather than its payroll title will be the criterion used in determining the eligibility of an employee's services for payment under this provision.

d. The types and amounts of equipment and machinery used by the Contractor in carrying out its work under the contingency shall be made in keeping with normal practice for work of similar nature. Owner may, at its discretion, limit by specific instruction the types and amounts of equipment and machinery to be used. For all equipment and machinery used in the contingency work, the Owner will pay eighty percent (80%) of the rental value as set forth in the Blue Book value or actual cost, whichever is less, to which no mark-up percentages will be added.

e. In computing the hourly rental of such equipment, less than thirty (30) minutes shall be considered 1/2 hour except when the minimum rental time to be paid is one hour. Rental time will not be allowed while equipment is inoperative due to breakdowns. The rental time of equipment to be paid for shall be the time the equipment is in operation on the contingency work being performed. The Contractor shall be reimbursed for the time required to move the equipment to the Work, and return it to its original location, only if the Contractor is charged this cost by the renting agency. Excess rental time of equipment due to inefficient work practices will not be reimbursed.

f. No payment will be allowed for the use of small tools and minor items of equipment, which, as used herein, are defined as individual tools or pieces of equipment having a replacement value of $500.00 or less.

g. The Contractor and the Engineer shall compare records of the Work performed on a Cost Reimbursable basis at the end of each day. These records shall be prepared by the Contractor and shall be signed by both the Owner and the Contractor's Representative. A copy of these records shall be submitted to the Owner with the invoice for the work.

h. Payment for cost reimbursable contingency work will be included in monthly progress payments.

i. The Contractor's Subcontractors will be allowed a ten percent (10%) mark-up on Work performed by their own forces. The Contractor will be allowed a five percent (5%) mark-up on the Subcontractor's costs (i.e. labor, materials and equipment) only, no mark-up on the Subcontractor's profit.

3.14.6 Suspension of Work

A. The Owner may suspend the performance of the Work rendered by providing the Contractor with five (5) business days written notice of such suspension. Schedules and compensation for performance of the Work shall be amended by mutual agreement to reflect such suspension. In the event of suspension of Work, the Contractor shall resume the full performance of the Work when the Owner gives written direction to do so. Suspension of Work caused by the Contractor's sole negligence or failure to perform shall not affect the Contractor's compensation as outlined in the Contract Documents.

3.14.7 Unauthorized Work

A. The Owner will consider any Work done without lines and grades given, Work done beyond the lines and grades shown on the Contract or as given, or any extra Work done without written authority, as unauthorized Work and will not pay the Contractor for such Work. If so ordered by the Contract Administrator, the Contractor shall remove such Work and properly replace it at the Contractor's own expense.

3.14.8 Payment of Overtime

A. Any Overtime required for the Contractor to complete the Work within the Contract Time shall be at the sole cost and expense of the Contractor.

B. If the Owner requires the Contractor to perform Overtime Work in order to complete the Work prior to the Contract Time, the Contractor shall bill the Owner for the Overtime such that only the actual costs incurred by the Contractor relating to the payment of Overtime premiums, in accordance with its labor policies and applicable laws. Such actual costs include Overtime wage premium, and additional taxes and insurance directly associated with the Overtime wage premium. The Contractor agrees that it will not charge for personnel paid a salary, or other form of compensation such that the Contractor incurs no direct costs as a result of the Overtime. The Contractor shall total the direct Overtime charges, and add the agreed upon overhead rate, but in no case, shall such overhead rate exceed ten percent (10%) of the total overtime costs.

C. Overtime may only be charged to the Owner if the Contractor was directed in writing by the Contract Administrator to incur the Overtime. Such authorization for Overtime shall be accompanied by a Change Order.

3.14.9 Scheduling of Overtime (Contractor Initiated Overtime)

A. Whenever the Contractor schedules Work beyond ten (10) hours per day, beyond fifty (50) hours per week, or on Saturdays, Sundays, or Owner Holidays, then the Contractor shall arrange, in advance, for the Engineer to inspect the Work performed during Overtime. The Contractor shall not perform Overtime Work or after-hours Work without an Owner's Representative at the Work Location or available to perform the inspections, as directed by the Contract Administrator. Except where the Owner has requested the Contractor schedule Overtime to perform additional Work, the Contractor shall reimburse the Owner for any additional costs associated with the Owner's Representatives' Overtime pay.

SECTION 3.15: LABOR

3.15.1 3.15.1 E-Verify Requirements.

Effective January 1, 2021, public and private employers, contractors, and subcontractors must require registration with, and use of the E-Verify system in order to verify the work authorization status of all newly hired employees. Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

(1) All persons employed by Contractor to perform employment duties within the State of Florida during the term of the Agreement; and

(2) All persons (including subcontractors/subvendors/subconsultants) assigned by Contractor to perform work pursuant to this Contract with the Owner. Contractor acknowledges and agrees that the use of the U.S. Department of Homeland Security's E-Verify System during the term of this Agreement is a condition of the Contract with the Owner.

By entering this Contract with the Owner, Contractor becomes obligated to comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility." This includes, but is not limited to, use of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit to Contractor attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Contractor agrees to maintain a copy of such affidavit for the duration of this Agreement. Failure to comply with this section will result in the termination of this Contract as provided in Section 448.095, Florida Statutes, and Contractor may not be awarded a public contract for at least one (1) year after the date on which the Contract was terminated. Contractor will also be liable for any additional costs to Owner incurred as a result of the termination of this Contract in accordance with this section.

3.15.2 DBE, MBE and/or WBE Requirements

A. Contractor represents that it will comply with all applicable provisions regarding DBE, MBE and/or WBE enterprises requirements stated in the DIVISION 4: SUPPLEMENTAL CONDITIONS.

3.15.2 Contractor's Labor Relations

A. The Contractor shall negotiate and resolve any disputes between the Contractor and its employees, or anyone representing its employees. The Contractor shall immediately notify the Owner of any actual or potential labor dispute that may affect the Work and shall inform the Owner of all actions it is taking to resolve the dispute.

3.15.3 Minimum Qualifications of Contractor Personnel

A. All Contractor personnel shall be at a minimum qualified for the tasks they are assigned. All Contractor personnel shall act in a professional manner, with due sensitivity to other persons at the Work Location. If the Owner, at its sole reasonable discretion, determines that a Contractor's person is unqualified, unfit, or otherwise unsuitable for the tasks assigned, the Contractor shall immediately stop the person from performing the tasks, and replace the person with a qualified individual. The Contractor shall pay all costs associated with replacing the unqualified person including, but not limited to, termination, recruiting, training, and certification costs.

B. The Contractor personnel assigned supervisory roles, and those with increased authority shall be held to strict scrutiny of their qualifications and suitability for their positions. In addition to the other provisions of this clause, the Contractor shall provide written documentation as to experience, education, licenses, certifications, professional affiliations, and other qualifications of the individual, within one (1) day of request from the Engineer. Any changes to such personnel after approval shall require the written permission of the Engineer.

3.15.4 Nondiscrimination

A. Contractor represents that it will comply with all applicable provisions regarding equal employment requirements stated in the DIVISION 4: SUPPLEMENTAL CONDITIONS.

B. The Contractor represents that it has adopted and will maintain a policy of nondiscrimination against employees or applicants for employment on account of race, religion, sex, color, national origin, age or handicap, in all areas of employee relations, throughout the Term of this Contract. The Contractor agrees that on written request, it will allow the Owner reasonable access to the Contractor's records of employment, employment advertisement, application forms and other pertinent data and records for the purpose of investigation to ascertain compliance with the nondiscrimination provisions of this Contract; provided however, the Contractor shall not be required to produce, for inspection, records covering periods of time more than one (1) year from the effective date of this Contract.

C. The Contractor shall comply with the following executive orders, acts, and all rules and regulations implementing said orders or acts, which are by this reference incorporated herein as if set out in their entirety:

1. The provisions of Presidential Order 11246, as amended, and the portions of Executive Orders 11701 and 11758 as applicable to Equal Employment Opportunity;

2. The provisions of section 503 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA); and

3. The provisions of the Employment and Training of Veterans Act, 38 U.S.C. 4212 (formerly 2012).

D. Discriminatory Vendor List. Contractor hereby acknowledges its continuous duty to disclose to the Owner if Contractor or any of its affiliates, as defined by Section 287.134(1)(a), Florida Statutes, has been placed on the Discriminatory Vendor List. Pursuant to Section 287.134(2)(a), Florida Statutes: "An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity."

E. The Contractor agrees that if any of the Work of this Contract will be performed by a Subcontractor, then the provisions of this subsection shall be incorporated into and become a part of the subcontract.

3.15.5 Show-Up Pay

A. In the event that inclement weather prevents the Contractor from performing Work, the Contractor may be obligated to pay its crew a show-up pay. The Contractor shall be solely responsible for providing this pay.

SECTION 3.16: RIGHTS, REMEDIES, AND DISPUTES

3.16.1 Intellectual Property

A. The Contractor grants to the Owner an irrevocable, perpetual, royalty free and fully paid-up right to use (and such right includes, without limitation, a right to copy, modify and create derivative works from the subject matter of the grant of the right to sublicense all, or any portion of, the foregoing rights to an affiliate or a third party service provider) the Contractor's intellectual property (including, without limitation, all trade secrets, patents, copyright and know-how) that is contained or embedded in, required for the use of, that was used in the production of or is required for the reproduction, modification,

maintenance, servicing, improvement or continued operation of any applicable unit of Work.

B. If the Work contains, has embedded in, requires for the use of any third party intellectual property, or if the third party intellectual property is required for the reproduction, modification, maintenance, servicing, improvement or continued operation of the Work, the Contractor shall secure for the Owner an irrevocable, perpetual, royalty free and fully paid-up right to use all third party intellectual property. The Contractor shall secure such right at its expense and prior to incorporating any third party intellectual property (including, without limitation, all trade secrets, patents, copyright and know-how) into any Work, including, without limitation, all drawings or data provided under the Contract, and such right must include, without limitation, a right to copy, modify and create derivative works from the subject matter of the grant of the right and a right to sublicense all or any portion of the foregoing rights to an affiliate or a third party service provider.

C. Should the Owner, or any third party obtaining such work product through the Owner, use the Work or any part thereof for any purpose other than that which is specified herein, it shall be at the Owner's sole risk.

D. The Contractor will, at its expense, defend all claims, actions or proceedings against the Owner based on any allegation that the Work, or any part of the Work, constitutes an infringement of any patent or any other intellectual property right, and will pay to the Owner all costs, damages, charges, and expenses occasioned to the Owner by reason thereof. The Owner will give the Contractor written notice of any such claim, action or proceeding and, at the request and expense of the Contractor, the Owner will provide the Contractor with available information, assistance and authority for the defense.

E. If, in any action or proceeding, the Work, or any part thereof, is held to constitute an infringement, the Contractor will forthwith either secure for Owner the right to continue using the Work or will, at the Contractor's expense, replace the infringing items with noninfringing Work or make modifications as necessary so that the Work no longer infringes.

F. The Contractor will obtain and pay for all patent and other intellectual property royalties and license fees required in respect of the Work.

3.16.2 Offsets

A. If the Owner reasonably believes the Contractor is in violation of any requirement of the Contract, the Owner may withhold payments that may be due the Contractor, and may offset existing balances with any Owner incurred costs against funds due the Contractor under this and any other Contractor Contract with the Owner, as a result of the violation, or other damages as allowed by the Contract Documents and applicable law.

3.16.3 Proprietary Information

A. The Contractor shall not copy, reproduce, or disclose to third parties, except in connection with the Work, any information that the Owner furnishes to the Contractor. The Contractor shall insert in any subcontract a restriction on the use of all information furnished by the Owner. The Contractor shall not use this information on another project. All information furnished by the Owner will be returned to the Owner upon completion of the Work. The Contractor may retain a copy of such information solely for its own project records.

3.16.4 Removal of Work

A. The Contractor shall not sell, assign, mortgage, hypothecate or remove Work that has been delivered to or installed at the Work Location without the Owner's approval.

3.16.5 Right to Audit and Financial Reporting

A. Upon the Owner's reasonable requests, the Contractor agrees to allow the Owner to audit its financial and operating records for the purpose of determining invoice accuracy, or otherwise assessing compliance with the Contract Documents. The Contractor agrees to allow Owner personnel, their qualified representative, and representatives as stated in DIVISION 4: SUPPLEMENTAL CONDITIONS access the records at Contractor's office, with three (3) business days written notice, for a reasonable period, not less than five (5) business days, in a workspace suitable for the audit provided by the Contractor. All audit work will be done on the Contractor's premises, and no Contractor documentation will be removed from the Contractor's offices. The Contractor agrees to have knowledgeable personnel available to answer questions for the auditors during the time they are at the Contractor's offices and for a period of two (2) weeks thereafter. The Contractor shall provide to the Owner audited financial statements for the most recent fiscal year upon the Owner's request, not later than five (5) business days after receipt of written request.

B. Contractor represents that it will comply with all applicable provisions stated in the DIVISION 4: SUPPLEMENTAL CONDITIONS.

3.16.6 Title to Materials Found

A. The Owner shall retain the title to water, mineral matter, timber and any other materials that the Contractor, or its Subcontractors, encounter during the excavation or other operations of the Work. The Contractor shall use or dispose of this material in accordance with the Contract or written instructions from the Engineer. Any materials found in the excavation, or other operations of the Contractor, that are of archaeological or historical value shall be left in place. The Contractor shall immediately notify the Owner of the find and shall take no further action until directed by the Owner.

3.16.7 Owner's Rights for Contractor Breach

A. In the event that Contractor causes delay to Approved Schedule, performs its Work in a manner that fails to meet the Standard of Care, commits a material breach of this

Agreement, or otherwise damages the Owner at law or in equity, the Owner is entitled to all remedies and damages available at law, including, but not limited to, liquidated damages, actual damages, consequential damages, attorneys' fees, and costs.

3.16.8 Limited Waiver of Consequential Damages

A. The Parties expressly agree that no Party to this Agreement shall be liable to any other Party or Parties to this Agreement for any special, consequential or exemplary damages of any kind whatsoever, whether arising in contract, warranty, tort (including but not limited to negligence), strict liability, or otherwise, including without limitation losses of use, profits, business reputation and financing, subject to the following exceptions: (i) willful misconduct, recklessness, or fraud by the Contractor or any entity for which it is legally responsible; (ii) the Contractor's third-party indemnity obligations under this Agreement or arising by operation of law, including claims for bodily injury, personal injury, or death; (iii) abandonment; (iv) Contractor's liability for liquidated damages; and (v) liability that is recoverable from Project Specific insurance.

SECTION 3.17: REPRESENTATIONS & WARRANTIES

3.17.1 Contractor's Knowledge of the Work

A. The Contractor represents that the Contract Price and the detailed schedule for the execution of the Work are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of the Owner. The Owner assumes no responsibility for any understanding or representation made by any of its representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that the Owner assumes the responsibility.

3.17.2 Contractor's Plans and Specifications

A. All plans and specifications that the Contractor provides for any building, structure, system or equipment where required by federal, state, local laws and regulation as part of the Work shall bear the seal of a Professional Engineer duly registered in the State of Florida at no cost to the Owner.

3.17.3 Contractor's Warranties

A. The Contractor unconditionally warrants to the Owner for a period of not less than two (2) years (unless otherwise stated in DIVISION 6: TECHNICAL SPECIFICATIONS) from the earlier of Final Acceptance or Substantial Completion and beginning of normal use by the Owner, that all Work furnished under the Contract including, but not limited to, materials, equipment, workmanship, and intellectual property, including derivative works will be:

1. Performed in a safe, professional and workman like manner;

2. Free from Defects in design, material, and workmanship;

3. Fit for the use and purpose specified or referred to in the Contract;

4. Suitable for any other use or purpose as represented in writing by the Contractor;

5. In conformance with the Contract Documents; and

6. Merchantable, new and of first-class quality.

7. Performed in accordance with the Standard of Care as defined herein.

B. The Contractor warrants that the Work shall conform to all applicable standards and regulations promulgated by federal, state, local laws and regulations, standards boards, organizations of the Department of State, and adopted industry association standards. If the Work fails to conform to such laws, rules, standards and regulations, the Owner may return the Work for correction or replacement at the Contractor's expense, or return the Work at the Contractor's expense and cancel the Contract. If the Contractor performs services that fail to conform to such standards and regulations the Contractor shall make the necessary corrections at Contractor's expense. The Owner may correct services to comply with standards and regulations at the Contractor's expense if the Contractor fails to make the appropriate corrections within a reasonable time.

C. If the Work includes items covered under a manufacturer's or Subcontractor's warranty that exceeds the requirements stated herein, the Contractor shall transfer such warranty to the Owner. Such warranties, do not in any way limit the warranty provided by the Contractor to the Owner.

D. If, within the warranty period, the Owner determines that any of the workmanship or supplies are defective or exhibit signs of deterioration, in the opinion of the Owner, the Contractor, at its own expense, shall repair, adjust, or replace the defective Work to the complete satisfaction of the Owner. The Contractor shall pay all costs of removal, transportation, reinstallation, repair, and all other associated costs incurred in connection with correcting such Defects in the Work. The Contractor shall correct any Defects only at times designated by the Owner. The Contractor shall extend the warranty period an additional twelve (12) months (thirty-six (36) months total) for any portion of the Work that has undergone warranty repair or replacement.

E. When operational conditions warrant, the Owner may repair or replace any defective equipment at the Contractor's expense. The Owner may repair or replace any defective Work at the Contractor's expense when the Contractor fails to correct the Defect within a reasonable time of receiving written notification of the Defect by the Owner, when the Contractor is unable to respond in an emergency situation, or when necessary to prevent the Owner from substantial financial loss. Where the Owner makes repairs or replaces defective Work, the Owner will issue the Contractor a written accounting and invoice of

all such work to correct Defects. The Contractor's liability to the Owner for the costs of removal, transportation, reinstallation, and all other associated costs incurred in connection with correcting Defects in the Work will be limited to 1.5 times the original installed purchase price of the specific Work.

F. The Contractor's warranty excludes remedy for damage or Defect caused by abuse, improper or insufficient maintenance, improper operation, or wear and tear under normal usage.

3.17.4 Competent Performance of the Work

A. The Contractor represents that it will conduct the Work in a manner and with sufficient labor, materials and equipment necessary to affect a diligent pursuance of the Work through Final Completion. If, in the sole opinion of the Owner, the Contractor fails to perform the Work as represented, the Owner may, at its sole discretion, take charge of the Work and furnish and provide the labor, materials, and equipment necessary to complete the Work as planned within the required time if the Owner deems the organization of the Contractor or its management, or the manner in which Contractor is performing the Work, to be manifestly incompetent or inadequate to complete the Work as specified. The Contractor shall pay the Owner for the cost of all such Work completed by the Owner.

3.17.5 Encroachment on Outside Property

A. The Contractor warrants that it shall not encroach on any rights or property of the public or adjoining property owners and shall hold the Owner harmless because of any encroachments that may result from the Contractor's lack of proper layout. If such an encroachment occurs, the Contractor agrees to remove any Work or portion thereof, that encroaches on the property of others, or that is built beyond legal building or setback limits, and shall rebuild the affected Work, or portion thereof, at the proper location, all without extra cost to the Owner.

3.17.6 Free and Clear Title

A. The Contractor warrants that it has title to all equipment and materials furnished under the Contract where title will pass to the Owner, and that the equipment and materials passed to the Owner are free and clear of all liens, claims, security interests and encumbrances.

3.17.7 Performance of the Work

A. The Contractor represents and warrants that it has the full corporate right, power and authority to enter into the Contract and to perform the acts required of it hereunder, and

that the performance of its obligations and duties hereunder does not and will not violate any Contract to which the Contractor is a party or by which it is otherwise bound. The Contractor warrants that all items provided under the Contract shall be free from Defect and services shall be performed in a professional manner and with professional diligence and skill, consistent with the prevailing standards of the industry. The Contractor warrants that the Work will meet the functional and performance requirements defined in the Contract.

3.17.8 Safety Representation

A. The Contractor represents and warrants to the Owner that it has the capacity to train and supervise its employees, Subcontractors and Suppliers to ensure the Work complies with all safety requirements of the Contract Documents. The Contractor shall be responsible for executing the necessary safety training and supervision of its employees and Subcontractors, and acknowledges that the Owner is not responsible for training or supervising the Contractor's employees, except when noted for the purpose of enforcing compliance with these safety requirements.

SECTION 3.18: TERM & TERMINATION

3.18.1 Term of Contract (Through Work Completion)

A. The Contract shall be in force through completion of all Work, Final Acceptance and final payment, including resolution of all disputes, claims, or suits, if any. Certain provisions of this Contract may extend past termination including Warranty provisions.

3.18.2 Termination for Convenience

A. The Owner shall have the absolute right to terminate in whole or part the Contract, with or without cause, at any time after Award upon written notification of such termination.

B. In the event of termination for convenience, the Owner will pay the Contractor for all disbursements and expenses that the Contractor has incurred, or those for which it becomes obligated prior to receiving the Owner's notice of termination. Owner will also pay the Contractor costs incurred less the reasonable resale value, of materials or equipment that the Contractor has already ordered, obtained or fabricated in connection with the Contract.

C. Upon receipt of such notice of termination, the Contractor shall stop the performance of the Work hereunder except as may be necessary to carry out such termination and take any other action toward termination of the Work that the Owner may reasonably request, including all reasonable efforts to provide for a prompt and efficient transition as directed by the Owner.

D. The Owner will have no liability to the Contractor for any cause whatsoever arising out of, or in connection with, termination (whether for convenience or default) including, but

not limited to, lost profits, lost opportunities, or resulting change in business condition, except as expressly stated within these Contract Documents.

3.18.3 Termination for Default

A. Owner may give the Contractor written notice to discontinue all Work under the Contract in the event that:

1. The Contractor assigns or subcontracts the Work without prior written permission;

2. Any petition is filed or any proceeding is commenced by or against the Contractor for relief under any bankruptcy or insolvency laws;

3. A receiver is appointed for the Contractor's properties or the Contractor commits any act of insolvency (however evidenced);

4. The Contractor makes an assignment for the benefit of creditors;

5. The Contractor suspends the operation of a substantial portion of its business;

6. The Contractor suspends the whole or any part of the Work to the extent that it impacts the Contractor's ability to meet the Work schedule, or the Contractor abandons the whole or any part of the Work;

7. The Contractor, at any time, violates any of the conditions or provisions of the Contract Documents, or the Contractor fails to perform as specified in the Contract Documents, or the Contractor is not complying with the Contract Documents;

8. The Contractor attempts to willfully impose upon the Owner items or workmanship that are, in the Owner's sole opinion, defective or of unacceptable quality;

9. The Contractor breaches any of the representations or warranties contained herein;

10. The Contractor is determined, in the Owner's sole opinion, to have misrepresented the utilization of funds or misappropriated property belonging to the Owner; or

11. There is any material change in the financial or business condition of the Contractor.

B. If, within twenty-four (24) hours after service of such notice upon the Contractor, an arrangement satisfactory to the Owner has not been made by the Contractor for continuance of the Work, the Owner may terminate the Contract.

C. Once a Contractor is declared in default, the surety shall assume the Contractor's place in all respects and shall be paid by the Owner all monies, if any, due the Contractor at the time of such notice to discontinue, or any monies thereafter that may become due the Contractor in accordance with the terms of the Contract.

D. If the Contractor fails to make arrangements satisfactory to the Owner within ten (10) days after service to the Contractor of a notice to discontinue Work, and in the case where a Payment Bond and a Performance Bond are in effect, the surety has not exercised its option, then without further notice to the Contractor or the surety, the Owner may terminate the Contract and shall have the power to complete the Work herein described as it may determine. In such a case, the Owner shall have the right to take possession of and use any of the materials, plant, tools, equipment, supplies and property of any kind provided by the Contractor for the purpose of this Work.

E. The Owner will charge the expense of completing the Work to the Contractor and will deduct such expenses from monies due, or which at any time thereafter may become due, to the Contractor. If such expenses are more than the sum that would otherwise have been payable under the Contract, then the Contractor shall pay the amount of such excess to the Owner upon notice of the expenses from the Owner. The Owner shall not be required to obtain the lowest price for completing the Work under the Contract, but may make such expenditures that, in its sole judgment, shall best accomplish such completion. The Owner will, however, make reasonable efforts to mitigate the excess costs of completing the Work.

F. The Contract Documents shall in no way limit the Owner's right to all remedies for nonperformance provided under law or in equity, except as specifically set forth herein. In the event of termination for nonperformance, the Contractor shall immediately surrender all Work records to the Owner. In such a case, the Owner may offset any money owed to the Contractor against any liabilities resulting from the Contractor's nonperformance.

G. The Owner has no responsibility whatsoever to issue notices of any kind, including but not limited to deficient performance letters and scorecards, to the Contractor regarding its performance prior to default by Contractor for performance related issues.

H. The Owner shall have no liability to the Contractor for termination costs arising out of the Contract, or any of the Contractor's subcontracts, as a result of termination for default.

SECTION 3.19: MISCELLANEOUS TERMS & CONDITIONS

3.19.1 Independent Contractor

A. This Agreement does not create an employer/employee relationship between the parties. The parties agree and intend that the Contractor is a separate and independent enterprise from the Owner. This Agreement shall not be construed as creating any joint employment relationship between the Contractor and the Owner and the Owner will not be liable for any obligation incurred by the Contractor, including but not limited to unpaid minimum wages and/or overtime, or any other obligation of the Contractor, whether arising under state or federal law, or contract, to Contractor’s employees, subcontractors, or subvendors.

B. Contractor undertakes performance of the Services as an independent contractor and shall be wholly responsible for the methods of performance.

C. The Contractor shall not pledge the Owner's credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness and shall have no right to speak for or bind the Owner in any manner.

D. Contractor further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Agreement.

3.19.2 Authority to Practice, Compliance with Laws, Public Records, and Trade Secrets

A. The Contractor hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct its business, and that it will at all times conduct its business activities in a reputable manner.

B. In performing the Services, the Contractor shall comply with all applicable regulatory requirements, including federal, state, special district, and local laws, rules, regulations, orders, codes, criteria, and standards.

C. Public Records. The parties acknowledge and agree that the Owner is a public agency subject to Chapter 119, Florida Statutes. To the extent the Contractor is a company acting on behalf of the Owner pursuant to Section 119.0701, Florida Statutes, the Contractor must comply with all public records laws in accordance with Chapter 119, Florida Statutes. In accordance with Chapter 119, Florida Statutes, the Contractor agrees to:

(1) Keep and maintain all records that ordinarily and necessarily would be required by the Owner to perform the services under this Agreement.

(2) Upon request from the Owner, provide the Owner with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the costs provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

(3) Ensure that public records that are exempt, or confidential and exempt, from public records disclosures are not disclosed as except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Contractor does not transfer the records to the Owner.

(4) Upon completion of the services under this Agreement, at no cost, either transfer to the Owner all public records in the Contractor's possession or keep and maintain public records required by the Owner to perform the services. If the Contractor transfers all public records to the Owner upon completion of the services, the Contractor must destroy any duplicate public records that are exempt, or confidential and exempt, from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the services under this Agreement, the Contractor must meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Owner,

upon request from the Owner, in a format that is compatible with the information technology systems of the Owner.

(5) IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE OWNER'S CUSTODIAN OF PUBLIC RECORDS AT: scamacho@cityofwauchula.com **or 863-773-3535.**

If the Contractor does not comply with the provisions of this section, the City will enforce the Agreement provisions in accordance herewith and may unilaterally cancel this Agreement in accordance with Florida law.

D. Trade Secrets and Proprietary Confidential Business Information. Documents submitted by Contractor which it contends constitute trade secrets as defined in Sections 812.081 and 688.002, Florida Statutes, or confidential and propriety business information when held by the Owner as a utility owner, consistent with Section 119.0713(5), Florida Statutes, and which are clearly marked or stamped as confidential by the Contractor at the time of submission to the Owner, will not be subject to public access. However, should a requestor of public records challenge Contractor's claim of trade secret or confidential and proprietary business information, within five (5) calendar days of such challenge, Contractor must provide a separate written affidavit that includes an indemnification and release guarantee, as approved by the Owner's Attorney or designee, to the Owner to support its claim that the alleged trade secrets or proprietary and confidential business information actually constitutes same as defined by law. Contractor must demonstrate the need for confidentiality of the documentation by showing a business advantage or opportunity to obtain an advantage would be gained if the documentation were released. Otherwise, Contractor is required to timely seek a protective order in the Circuit Court of Hardee County to prevent the Owner's release of the requested records.

E. Drug Free Workplace. Contractor shall comply with the applicable provisions of the Drug-Free Work Place Act of 1988 (Public Law 100-690, Title V, Subtitle D; 41 USC § 701 et seq.) and maintain a drug-free work environment; and the final rule, government-wide requirements for drug-free work place issued by the Office of Management and Budget to implement the provisions of the Drug-Free Work Place Act of 1988 is incorporated by reference and the Contractor shall comply with the relevant provisions thereof, including any amendments, which are made part of this Agreement.

3.19.3 Public Entity Crimes, Section 287.133, Fla. Stat.; Scrutinized Companies List/Countries of Concern/Interests of Foreign Countries, Sections 287.135, 215.473, and 287.138, Fla. Stat.; and Anti-Trust Vendor Violator, Section 287.137, Fla. Stat.

A. Pursuant to Section 287.133(2)(a), Florida Statutes, Contractor hereby certifies that neither it nor its affiliate(s) have been placed on the convicted vendor list following a conviction for a public entity crime. If placed on that list, Contractor must notify the Owner immediately and may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

B. Contractor hereby certifies that it: (a) has not been placed on the Scrutinized Companies that Boycott Israel List, nor is engaged in a boycott of Israel; (b) has not been placed on the Scrutinized Companies with Activities in Sudan List nor the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and (c) has not been engaged in business operations in Cuba or Syria. If Owner determines that Contractor has falsely certified facts under this Paragraph or if Contractor is found to have been placed on the Scrutinized Companies Lists or is engaged in a boycott of Israel after the execution of this Agreement, the Owner will have all rights and remedies to terminate this Contract consistent with Section 287.135, Florida Statutes.

C. The Contractor has a continuous duty to disclose to the Owner if the Contractor or any of its affiliates, as defined by section 287.137(1), Fla. Stat., are placed on the Antitrust Violator Vendor List. Pursuant to section 287.137, Fla. Stat., “A person or an affiliate who has been placed on the antitrust violator vendor list following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply for any new contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply for a new contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on new leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a new contract with a public entity; and may not transact new business with a public entity.”

3.19.4 Ambiguous Contract Provisions

A. The parties agree that this Contract has been the subject of meaningful analysis and/or discussions of the specifications, terms and conditions contained in this Contract. Therefore, doubtful or ambiguous provisions, if any, contained in this Contract will not be construed against the party who physically prepared this Contract. The rule commonly known as "Fortius Contra Proferentem" will not be applied to this Contract or any interpretation thereof.

3.19.5 Amendments

A. This Contract may not be altered or amended except in writing, signed by the Owner and the Contractor, or each of their duly authorized representatives.

3.19.6 Choice of Law, Venue, Waiver of Jury Trial, and Attorney's Fees

A. This Contract, and the rights and duties of the parties arising from or relating to this Contract or its subject matter, shall be construed in accordance with the laws of the State of Florida and the ordinances of the City of Wauchula without regard to its conflicts of law provisions. Each of the parties irrevocably submits to the exclusive jurisdiction of the courts of Hardee County, Florida, and further agree that the venue for any legal action brought by or filed against the Owner relating to any matter arising under this Contract shall be exclusively in that state or federal court, sitting in Hardee County, Florida that has jurisdiction over such legal actions.

B. **WAIVER OF JURY TRIAL. BY ENTERING INTO THIS AGREEMENT, THE CONTRACTOR AND THE OWNER HEREBY EXPRESSLY WAIVE ANY RIGHTS THEY MAY HAVE TO A TRIAL BY JURY IN ANY LITIGATION ARISING OUT OF OR RELATED TO THIS AGREEMENT**.

C. If any action or other proceeding is brought for the enforcement of this Agreement or due to any uncured dispute, breach, default, or misrepresentation in connection with any of the provisions of this Agreement, or to interpret this Agreement, the prevailing Party shall be entitled to recover from the other Party reasonable attorney's fees and other costs incurred in the prosecution of the action or proceeding

3.19.7 Conflict of Interest

A. This Contract is subject to Chapter 112, Florida Statutes, the Conflict of Interest Procedures for State Funded Grant Programs, and ARPA. Accordingly, Contractor acknowledges and agrees that:

(1) No member, officer, or employee of the Contractor or the City, during that person's tenure or for a period of two (2) years thereafter, shall have any interest, direct or indirect, in this Agreement or the proceeds thereof.

(2) Contractor shall adhere to the Conflict of Interest Procedures for State Funded Grant Programs as set forth in FDOT Topic No. 375-030-006, https://pdl.fdot.gov/api/procedures/downloadProcedure/375-030-006.

B. Restrictions on Lobbying. Contractor shall comply with the restrictions on lobbying set forth in 31 C.F.R. Part 21.

C. Debarment and Suspension. This Agreement is a covered transaction for purposes of 2 C.F.R. Part 180. Contractor certifies that it is not listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB Guidelines at 2. C.F.R. Part 180, “Debarment and Suspension.” Contractor shall comply with OMB Guidelines on Debarment and Suspension (nonprocurement), 2 C.F.R. Part 180, including the requirement to include a term or condition in all lower tier covered transactions (subcontracts as described in 2 C.F.R. Part 180, subpart B) that the subcontract is subject to 2 C.F.R. Part 180 and the U.S. Treasury’s implementing regulations at 31 C.F.R. Part 19.

3.19.8 Cumulative Remedies

A. Except as otherwise expressly provided in this Contract, all remedies provided for in this Contract shall be cumulative and in addition to and not in lieu of any other remedies available to either party at law, in equity or otherwise.

3.19.9 Entire Agreement

A. This Contract contains all of the understandings and agreements of the parties hereto in respect of the subject matter hereof as of the Effective Date of the Contract. Any and all prior understandings and agreements, expressed or implied, between the parties hereto in respect of the subject matter hereof shall be superseded hereby. Parol or extrinsic evidence will not be used to vary or contradict the express terms of this Contract.

B. The Contract Documents are complementary; what is called for by one is binding as if called for by all. The Contractor shall, upon discovery, inform the Owner in writing of any conflict, error or discrepancy in the Contract Documents. Should the Contractor proceed with the Work prior to written resolution of the error or conflict by the Owner, all Work done is at the sole risk of the Contractor.

3.19.10 Expanded Definitions

A. Unless otherwise specified, words importing the singular include the plural and vice versa and words importing gender include all genders. The term "including" means "including without limitation", and the terms "include", "includes" and "included" have similar meanings. Any reference in this Contract to any other agreement is deemed to include a reference to that other agreement, as amended, supplemented or restated from time to time. Any reference in the Contract to "all applicable laws, rules and regulations" means all federal, state and local laws, rules, regulations, ordinances, statutes, codes and practices.

3.19.11 Force Majeure

A. No party shall be liable for any default or delay in the performance of its obligations under this Contract due to an act of God or other event to the extent that: (a) the non-performing party is without fault in causing such default or delay; (b) such default or delay could not have been prevented by reasonable precautions; and (c) such default or delay could not have been reasonably circumvented by the non-performing party through the use of alternate sources, work-around plans or other means. Such causes include, but are not limited to: act of civil or military authority (including but not limited to courts or administrative agencies); acts of God; war; terrorist attacks; riot; insurrection; inability of the Owner to secure approval, validation or sale of bonds; inability of the Owner or the Contractor to obtain any required permits, licenses or zoning; blockades; embargoes; sabotage; epidemics; fires; hurricanes, tornados, floods; or strikes.

B. In the event of any delay resulting from such causes, the time for performance of each of the parties hereunder (including the payment of monies if such event actually prevents payment) shall be extended for a period of time reasonably necessary to overcome the effect of such delay, except as provided for elsewhere in the Contract Documents.

C. In the event of any delay or nonperformance resulting from such causes, the party affected shall promptly notify the other in writing of the nature, cause, date of commencement and the anticipated impact of such delay or nonperformance. Such written notice, including Change Orders, shall indicate the extent, if any, to which it is anticipated that any delivery or completion dates will be thereby affected.

3.19.12 Headings

A. The division of this Contract into sections, the insertion of headings and/or index numbers and the provision of a table of contents are for convenience of reference only and are not to affect the construction or interpretation of this Agreement.

3.19.13 Language and Measurements

A. All communication between the Contractor and the Owner, including all documents, notes on drawings, and submissions required under the Contract, will be in the English language. Unless otherwise specified in the Contract, the US System of Measurements shall be used for quantity measurement. All instrumentation and equipment will be calibrated in US System of Measures.

3.19.14 Nonwaiver

A. Failure by either party to insist upon strict performance of any of the provisions of the Contract will not release either party from any of its obligations under the Contract.

3.19.15 Publicity and Advertising

A. The Contractor shall not take any photographs for the purpose of making any announcements or release any information concerning the Contract or the Work to any

member of the public, press or official body unless prior written consent is obtained from the Owner. The Owner is governed by the Florida Public Records Laws therefore all Contract Documents are available for public inspection, subject to certain statutory exemptions as set forth in Chapter 119, *Florida Statutes*. In addition, the Owner is governed by Florida Sunshine Laws and as such, certain meetings are required to be open to the public.

B. Publications Produced with ARPA funds. Any publications produced with funds from this Agreement must display the following language: "This project [is being] [was] supported, in whole or in part, by federal award number [enter project FAIN] awarded to [name of Sub-recipient] by the U.S. Department of the Treasury."

3.19.16 References

A Unless otherwise specified, each reference to a statute, ordinance, law, policy, procedure, process, document, drawing, or other informational material is deemed to be a reference to that item, as amended or supplemented from time to time. All referenced items shall have the enforcement ability as if they are fully incorporated herein.

3.19.17 Relationship of the Parties

A. The Contractor agrees that it shall perform the Work as an independent contractor and that it does not (a) have the power or authority to bind the Owner or to assume or create any obligation or responsibility, express or implied, on the Owner's part or in the Owner's name, except as may be authorized by the Owner under a separate written document, or (b) represent to any person or entity that it has such power or authority except as may be authorized by the Owner under a separate written document.

3.19.18 Severability

A. In the event that any provision of this Contract is found to be unenforceable under applicable law, the parties agree to replace such provision with a substitute provision that most nearly reflects the original intentions of the parties and is enforceable under applicable law, and the remainder of this Contract shall continue in full force and effect.

3.19.19 Subcontracting or Assigning of Contract

A. Each party agrees that it shall not subcontract, assign, delegate, or otherwise dispose of the Contract, the duties to be performed under the Contract, or the monies to become due under the Contract without the other party's prior written consent.

B. The assignment of the Contract will not relieve either of the parties of any of its obligations until such obligations have been assumed in writing by the assignee. If the Contract is assigned by either of the parties, it will be binding upon and will inure to the

benefit of the permitted assignee. The Contractor shall be liable for all acts and omissions of its assignee or its Subcontractor.

C. The Contractor agrees to retain the services of such subcontractors and subconsultants as reasonably required to provide the Work required by this Agreement. All subcontractors and subconsultants will be under contract to the Contractor. The Contractor shall supervise and coordinate all subcontractors and subconsultants and shall be responsible to the Commission for their work.

D. Any subcontractor or subconsultant retained by the Contractor shall be licensed in the State of Florida in the field applicable to such subcontractor or subconsultant's scope of work.

E. The Contractor's choice of subcontractors must be approved by the Owner. While the Owner shall have the right to approve or reject each sub-consultant, such approval shall not be unreasonably withheld.

F. In no event will the Contractor subcontract portions of the Work under this Agreement without the approval of the Owner. The Owner's approval of any subcontractor or subconsultant will not relieve the Contractor of its responsibility for the acts and omissions of such subcontractors or subconsultants. Any subcontract shall include, among other appropriate provisions, those provisions of this Agreement that by its terms are required to be provided in the subcontract agreement.

G. The Owner may reasonably request that the Contractor contract with additional subcontractors or subconsultants in order to adequately perform the Work on the Project.

3.19.20 Survival

A. The obligations of the Owner and the Contractor under this Contract that are not, by the express terms of this Contract, fully to be performed during the Term, shall survive the termination of this Contract for any reason.

3.19.21 Third Party Agreements

A. Unless otherwise agreed in writing by the Owner, the Owner shall have no obligation to enter into any third party agreements under this Contract. Such third party agreements shall include, but not be limited to: joint check agreements, and revocable or irrevocable letters of direction with sureties. In the event the Owner agrees to execute any such agreement(s), then such agreement(s) shall incorporate additional language as required by the Owner.

3.19.22 Time and Date

A. Unless otherwise specified, references to time of day or date mean the local time or date in Wauchula, Florida. If under this Contract any payment or calculation is to be made, or any other action is to be taken, on or as of a day that is not a regular business day for the Owner, that payment or calculation is to be made, and that other action is to be taken, as applicable, on or as of the next day that is a regular business day. Where reference is made to day or days, it means calendar days. Where reference is made to workday, workdays, business day, or business days, it means regular working days for the Owner.

3.19.23 Waiver of Claims

A. A delay or omission by the Owner hereto to exercise any right or power under this Contract shall not be construed to be a waiver thereof. A waiver by the Owner under this Contract shall not be effective unless it is in writing and signed by the party granting the waiver. A waiver by a party of a right under, or breach of, this Contract shall not be construed to operate as a waiver of any other or successive rights under, or breaches of, this Contract.

B. The Contractor's obligations to perform and complete the Work in accordance with the Contract shall be absolute. None of the following will constitute a waiver of any of the Owner's rights under the Contract: approval or payment of any progress payments or any other payments, including final payment; issuance of the Certificate of Substantial Completion or Certificate of Contract Completion; any use or occupancy of the Work by the Owner; nor any correction of faulty or defective work by the Owner.

[END OF SECTION]

DIVISION 4:
SUPPLEMENTAL CONDITIONS

a. The Subrecipient will comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964, the regulations of the U.S. Department of Transportation issued thereunder, and the assurance by the Subrecipient pursuant thereto. The Subrecipient shall include the attached **Exhibit "C" of ARPA Agreement,** Title VI Assurances in all contracts with consultants and contractors performing work on the Project that ensure compliance with Title VI of the Civil Rights Act of 1964, 49 CFR Part 21, and related statutes and regulations.

b. The Subrecipient will comply with all applicable requirements imposed by the Americans with Disabilities Act (ADA), as amended, the regulations of the Federal Government issued thereunder, and assurance by the Subrecipient pursuant thereto.

DIVISION 5:
FORMS

SECTION 5.1: FORMS TO SUBMIT WITH BID

The following forms must be completed and included in the Bidder's response to this Solicitation. This list represents the forms only and does not include all information and items necessary to be responsive to the Bid Solicitation.

5.1.1 Bid Form

5.1.2 Bid Security

5.1.3 Bidder's Qualifications

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion

5.1.5 Drug-Free Workplace Certificate

5.1.6 Florida Trench Safety Act Acknowledgement

5.1.7 Non-Collusion Affidavit

5.1.8 Public Entity Crimes Statement

5.1.9 Tabulation of Subcontractors and Suppliers

SECTION 5.2: FORMS FOR CONVENIENCE

The following forms are included for convenience in the Bid Documents. The Owner may require additional forms during the performance of the Work:

5.2.1 Certificate of Final Completion Form

5.2.2 Certification of Substantial Completion Form

5.2.3 Change Order Form

5.2.4 Contractor's Application for Payment Form

5.2.5 Field Order Form

5.2.6 Notice of Award Form

5.2.7 Notice to Proceed Form

5.2.8 Payment Bond Form

5.2.9 Performance Bond Form

5.2.10 Work Change Directive Form

5.1.1 Bid Form

PROJECT: City of Wauchula – Alabama Street Roadway Improvements
FPID No. 447957-1

A. Bid Recipient

1. This Bid is submitted to:

   City of Wauchula
   Attn: City Manager
   126 South 7th Street
   Wauchula, FL 33873

2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Bid Documents to perform all Work as specified or indicated in the Bid Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bid Documents.

B. Bidder's Acknowledgements

1. The Bidder accepts all of the terms and conditions of DIVISION 1: INSTRUCTIONS TO BIDDERS, including without limitation those dealing with the disposition of the Bid Security. The Bid will remain subject to acceptance for 120 days after the Bid Opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

C. Bidder's Representations

1. In submitting this Bid, the Bidder represents that:

   a. The Bidder has received from the Issuing Office a complete set of Bid Documents and other related data identified in the Bid Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____

   b. The Bidder has examined and carefully studied the Bid Documents, Addenda, and the other related data identified in the Bidding Documents, and provided the information to Subcontractors and Suppliers who have provided quotations to the Bidder for the Work.

c. The Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

d. The Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

e. The Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS, and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in DIVISION 1: INSTRUCTIONS TO BIDDERS.

f. The Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplemental examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by the Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bid Documents to be employee by the Bidder, and safety precautions and programs incident thereto.

g. The Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bid Documents

h. The Bidder is aware of the general nature of the Work to be performed by the Owner and others at the Site that relates to the Work as indicated in the Bid Documents.

i. The Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bid Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bid Documents.

j. The Bidder has given the Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that the Bidder has discovered in the Bid Documents, and the written resolution thereof by the Engineer is acceptable to the Bidder.

k. The Bid Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

l. Bidder certifies Bidder's authority and qualification to do business in the state where the Project is located, that the Bidder is a state-certified Contractor in good standing and holds current registration with the Florida Construction Industry Licensing Board of the Florida Department of Professional Regulation, that the type of license is in a class that authorizes the Bidder to perform the general nature of the construction to be performed on this project, and that the Bidder's State Contractor's license number for the state of the project is shown on the Bid Form.

m. Bidder certifies to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-made. To support the efforts, any non American-made equipment proposed must be accompanied by proof of good-faith efforts to utilize American-made equipment such as written quotes, solicitations, advertisements, etc.

D. Bidder's Certification

1. Bidder certifies that:

a. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

b. The Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

c. The Bidder has not solicited or induced any individual or entity to refrain from bidding; and

d. The Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph:

i. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

ii. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of the Owner, (b) to establish Bid Prices at artificial non-competitive levels, or (c) to deprive the Owner of the benefits of free and open competition;

iii. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Owner, a purpose of which is to establish Bid Prices at artificial, non-competitive levels; and

iv. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

E. Basis of Bid

1. The Bidder has reviewed DIVISION 6: TECHNICAL SPECIFICATIONS; and will complete the Work in accordance with the Contract Documents for the following price(s):

A. BASE BID

BID FORM ***TENNESSEE STREET ROADWAY IMPROVEMENTS*** ***FPID NO. 447957-1***					
BID ITEM	*DESCRIPTION*	*UNIT*	*QTY.*	*BID UNIT PRICE*	*TOTAL BID PRICE*
101-1	*MOBILIZATION*	*LS*	*1*		
102-1	*MAINTENANCE OF TRAFFIC*	*LS*	*1*		
104-10-3	*SEDIMENT BARRIER*	*LF*	*25*		
104-18	*INLET PROTECTION SYSTEM*	*EA*	*2*		
110-4-10	*REMOVAL OF EXISTING CONCRETE*	*SY*	*75*		
327-70-7	*MILLING EXISTING ASPHALT PAVEMENT*	*SY*	*3,012*		
334-1-11	*SUPERPAVE ASPHALTIC CONC., TRAFFIC C*	*TN*	*663*		
425-11	*MODIFY EXISTING DRAINAGE STRUCTURE*	*EA*	*1*		
522-2	*CONCRETE SIDEWALK, 4" THICK*	*SY*	*7*		
527-2	*DETECTABLE WARNING*	*SF*	*16*		
570-1-2	*PERFORMANCE TURF, SOD*	*SY*	*4*		
700-1-11	*SINGLE POST SIGN*	*EA*	*8*		
700-1-80	*CONCRETE CURB AND GUTTER, TYPE F*	*LF*	*325*		
711-11-123	*THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"*	*LF*	*40*		
711-11-125	*THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"*	*LF*	*96*		
711-15-201	*THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"*	*LF*	*100*		

TOTAL BASE BID:

_____ ($_____)
(words) (numerals)

The Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

F. Time of Completion

1. The Bidder agrees that the Work will be substantially complete within **180** calendar days after the issuance of the Notice to Proceed, and completed and ready for final payment in accordance with the Contract Documents within **210** calendar days after the date when the Contract Time commences to run.

2. The Bidder accepts the provisions of the Agreement as to liquidated damages.

G. Attachments to This Bid

1. The following documents are submitted with and made a part of this Bid:

   a. DIVISION 5: FORMS – Bid Form

   d. DIVISION 5: FORMS – Bid Security

   c. DIVISION 5: FORMS – Bidder's Qualifications

   d. DIVISION 5: FORMS – Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years

   e. DIVISION 5: FORMS – Drug-Free Workplace Certificate

   f. DIVISION 5: FORMS – Florida Trench Safety Act Acknowledgement

   g. DIVISION 5: FORMS – Non-Collusion Affidavit

   h. DIVISION 5: FORMS – Public Entity Crimes Statement

   i. DIVISION 5: FORMS – Tabulation of Subcontractors and Suppliers

   j. Evidence of authority to do business in the State of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;

      Contractor's License No.: _____.

H. Defined Terms

1. The terms used in this Bid with initial capital letters have the meanings stated in DIVISION 1: INSTRUCTIONS TO BIDDERS and DIVISION 4: SUPPLEMENTAL CONDITIONS.

I. Bid Submittal

1. This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)

(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____

By: _____ (SEAL)

(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

State Contract License No. _____

A Corporation

Corporation Name: _____

_____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability):_____

By: _____

(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Corporate Seal)

Attest _____

(Signature of Corporate Secretary)

Date of Qualification to do business in Florida is _____/_____/_____.

State Contractor License No. _____.

A Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____(SEAL)

By: _____

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address _____

_____

Phone No. _____ Fax No. _____

E-mail _____

SUBMITTED on _____, 20_____.

State Contractor License No. _____.

5.1.2 Bid Security Form

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID

Bid Due Date:

Project (Brief Description Including Location):

BOND

Bond Number:

Date (Not later than Bid due date):

Penal sum _____ _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER	**SURETY**
_____ (Seal)	_____ (Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature and Title	Signature and Title (Attach Power of Attorney)
Attest: _____	Attest: _____
Signature and Title	Signature and Title

Note: Above addresses are to be used for giving required notice.

A. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to the Owner upon default of the Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.

B. Default of Bidder shall occur upon the failure of the Bidder to deliver within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents.

C. This obligation shall be null and void if:

   i. The Owner accepts the Bidder's Bid and the Bidder delivers within the time required by the Bid Documents (or any extension thereof agreed to in writing by the Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents, or

   ii. All Bids are rejected by the Owner, or

   iii. The Owner fails to issue a Notice of Award to the Bidder within the time specified in the Bid Documents (or any extension thereof agreed to in writing by the Bidder and, if applicable, consented to by Surety when required by Paragraph E hereof).

D. Payment under this Bond will be due and payable upon default by the Bidder and within 30 calendar days after receipt by the Bidder and the Surety of written notice of default from the Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

E. The Surety waives notice of any and all defenses based on or arising out of any time extension to issue the Notice of Award agreed to in writing by the Owner and the Bidder, provided that the total time for issuing the Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid Due Date without the Surety's written consent.

F. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph D above is received by the Bidder and the Surety and in no case later than one year after the Bid Due Date.

G. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

H. Notices required hereunder shall be in writing and sent to the Bidder and the Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

I. The Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

J. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

K. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

5.1.3 Bidder's Qualifications

The Bidder warrants the truth and accuracy of all statements and answers herein contained.
(Include additional sheets if necessary.)

THIS QUESTIONNAIRE MUST BE COMPLETED AND SUBMITTED WITH YOUR BID.

A. LICENSE # and COMPANY'S NAME:_____

B. CO. PHYSICAL ADDRESS:_____

C. TELEPHONE NUMBER: (_____)_____ D. FAX: (_____)_____

E. Bidding as an; individual:_____; a partnership:___; a corporation:___; a joint venture:___.

F. If a partnership: list names and addresses of partners; if a corporation: list names of officers, directors, shareholders, and state of incorporation; if joint venture: list names and addresses of venturers and the same if any venturer is a corporation for each such corporation, partnership, or joint venture:

_____

_____

G. Your organization has been in business (under this firm's name) as a _____

_____for how many years? _____

H. Describe and give the date and owner of the last three government projects you've completed which are similar in cost, type, size, and nature as the one proposed (for a public entity). Include contact name and phone number:

_____

_____

I. Have you ever been awarded additional time to complete work awarded to you during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.

_____

_____

J. Have you ever been assessed liquidated damages under a contract during the past five (5) years? If so, state when, where (contact name, address, and phone number) and why.

_____

_____

K. Have you ever failed to complete work awarded to you? If so, state when, where (contact name, address, phone number) and why?

L. Have you ever been debarred or prohibited from bidding on a governmental entity's construction project? If yes, name the entity and describe the circumstances:

M. Name three individuals, governmental entities, or corporations for which you have performed similar work and to which you refer. Include contact name and phone number:

N. What specific steps have you taken to examine the physical conditions at or contiguous to the site, including but not limited to, the location of existing underground facilities?

O. What specific physical conditions, including but not limited to, the location of existing underground facilities have you found which will, in any manner, affect cost, progress, performance, or finishing of the work?

P. Will you subcontract any part of this Work? If so, describe which major portion(s):

Q. If any, list (with contract amount) MBE/WBE's to be utilized:

R. What equipment do you own to accomplish this Work?

S. What equipment will you purchase/rent for the Work? (specify which)

_____

_____

T. List the following in connection with the Surety which is providing the Bond(s):

Surety's Name: _____

Surety's Address: _____

Name, address and phone number of Surety's resident agent for service of process in Florida:

_____

_____

_____

Phone: (___) _____

5.1.4 Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion – Last Three (3) Years

Project	Name and Address of Owner or Engineer	Name and Phone Number of Owner or Engineer Representative	Date of Contract	Amount	Status

5.1.5 Drug-Free Workplace Certificate

I, the undersigned, in accordance with Section 287.087, *Florida Statutes* hereby certify that

_____

(Print or Type Name of Firm)

☐ Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace named above and specifying actions that will be taken against violations of such prohibition.

☐ Informs employees about the dangers of drug abuse in the workplace; the firm's policy of maintaining a drug-free working environment and available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug-use violations.

☐ Gives each employee engaged in providing commodities or contractual services that are under bid or proposal a copy of the statement specified above.

☐ Notifies the employees that as a condition of working on the commodities or contractual services under bid or proposal, the employees will abode by the terms of the statement and will notify the employer of any conviction of or plea of guilty or nolo contendere to any violation of Chamber 1893 or any controlled substance law of the State of Florida or the United States for a violation occurring in the workplace, no later than 5 days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

☐ Imposes a sanction on or requires the satisfactory participation in a drug-abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

☐ Makes a good faith effort to continue to maintain a drug-free workplace through the implementation of the drug-free workplace program.

"As a person authorized to sign this statement, I certify that the business, firm, or corporation named above complies fully with the requirements set forth herein."

_____ _____

Authorized Signature Date Signed

State of: _____

County of: _____

Sworn to and subscribed before me this _____ day of _____, 20 _____.

Personally known _____ or Produced Identification _____

Specify Type of Identification

_____

Signature of Notary

My Commission Expires: _____

5.1.6 Certificate of Compliance with the Florida Trench Safety Act

The Bidder acknowledges sole responsibility for complying with the Florida Trench Safety Act (Act) and Occupational Safety and Health Administration's excavation safety standard 29 CFR 1926.650 (Subpart P as amended). The Bidder further acknowledges that included in the various items of the Proposal and in the Total Base Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) effective October 1, 1990. The Bidder further identifies the costs to be summarized below:

	Trench Safety Method (Description)	Units of Measure (LF, SY)	Unit (Quantity)	Extended Cost	Unit Extended Cost
A.	_____	_____	_____	_____	_____
B.	_____	_____	_____	_____	_____
C.	_____	_____	_____	_____	_____
D.	_____	_____	_____	_____	_____
				Total:	

Failure to complete the above may result in the Bid being declared non-responsive. The costs indicated above are provided to comply with the Act and shall not constitute grounds for any additional compensation to that listed for the separate line items of the Proposal Form.

By: _____

Bidder: _____

Date: _____

Authorized Signature: _____

State of: _____

County of: _____

Sworn to and subscribed before me this _____ day of _____, 20 _____.

Personally known _____ or Produced Identification _____
Specify Type of Identification

_____
Signature of Notary

My Commission Expires: _____

5.1.7 Non-Collusion Affidavit of Prime Bidder

State of _____

County of _____

_____, being first duly sworn, deposes and says that:
Name

1. He/She is _____ of _____, the
   Title Company
   Bidder that has submitted the attached bid;

2. He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

3. Such Bid is genuine and is not a collusive or sham Bid;

4. Neither the said Bidder not any of his/her officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or has refrained from bidding in connection with such Contract; nor in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or if any other Bidder; not has fixed any overhead, profit or cost element of the Bid Price, or the Bid Price of any other Bidder; not has secured through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the City of Wauchula, Florida or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____
Name

_____
Title

Subscribed and sworn to before me this _____ day of _____, 20_____

_____
Signature

_____
Title

My commission expires _____

5.1.8 Sworn Statement Pursuant to Section 287.133(3)(A), *Florida Statues*, on Public Entity Crimes

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to the City of Wauchula, Florida by

   _____
   (print individual's name and title)

   for _____
   (print name of entity submitting sworn statement)

   whose business address is _____

   _____

   And (if applicable) its Federal Employer Identification Number (FEIN) is _____.
   (If the entity has no FEIN, include the Social Security of the individual signing this sworn statement: _
   _____.)

2. I understand that a "public entity crime" as defined in Section 287.133 (1)(g), *Florida Statues* means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision of any other state or of the United States and involving anti-trust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

3. I understand that "convicted" or "conviction" as defined in Section 287.133(1)(b), *Florida Statutes*, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or stated trial court of record relating to charges brought by indictment or information after July 1. 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that "affiliate" as defined in Section 287.133(1)(a), *Florida Statutes*, means:

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters in to a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5. I understand that a "person" as defined in Section 287.133 (1)(e), *Florida Statutes*, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (indicate which statement applies).

___ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, *FLORIDA STATUES*, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

_____
(Signature)

Sworn to and subscribed before me this _____ day of _____, 20_____.

Personally known _____

OR Produced Indentification_____ Notary Public-State of _____

_____ My commission expires_____
(Type of Indentification)

_____
(Printed, Typed or Stamped
Commissioned Name of Notary Public)

5.1.9 Tabulation of Subcontractors and Suppliers

The Undersigned states that the following is a full and complete list of the proposed Subcontractors and Suppliers on this Project and the class of work to be performed by each and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	MBE/WBE STATUS	CLASS OF WORK OR MATERIAL
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

BIDDER: _____

By: _____

Name: _____

Title: _____

Date: _____

5.2.1 Certificate of Final Completion

Project:	Owner: City of Wauchula	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:

This Certificate of Final Completion applies to:

☐ All Work under the Contract Documents: ☐ The following specified portions:

_____

_____

_____

_____
Date of Final Completion

The Work to which this Certificate applies has been inspected by authorized representatives of the Owner, the Contractor and the Engineer, and found to be complete and final. The Date of Final Completion of the Project or portion thereof designated above is hereby declared.

_____ _____
Executed by Engineer Date

_____ _____
Accepted by Contractor Date

_____ _____
Accepted by Owner Date

5.2.2 Certificate of Substantial Completion

Project:	Owner: City of Wauchula	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:

This [tentative] [definitive] Certificate of Substantial Completion applies to:
☐ All Work under the Contract Documents: ☐ The following specified portions:

_____

_____

_____
Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby declared and is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

A [tentative] [revised tentative] [definitive] list of items to be completed or corrected, is attached hereto. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as provided in the Contract Documents except as amended as follows:

☐ Amended Responsibilities ☐ Not Amended

Owner's Amended Responsibilities:

_____

_____

Contractor's Amended Responsibilities:

_____

_____

The following documents are attached to and made part of this Certificate:

_____

_____

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

_____ _____
Executed by Engineer Date

_____ _____
Accepted by Contractor Date

_____ _____
Accepted by Owner Date

5.2.3 Change Order Form

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

The Contract Documents are modified as follows upon execution of this Change Order:
Description:

_____

_____

Attachments: (List documents supporting change):

_____

_____

CHANGE IN CONTRACT PRICE:

Original Contract Price:

$ _____

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____

$ _____

Contract Price prior to this Change Order:

$ _____

[Increase] [Decrease] of this Change Order:

$ _____

Contract Price incorporating this Change Order:

$ _____

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☐ Calendar days
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____
Substantial completion (days): _____
Ready for final payment (days): _____

Contract Times prior to this Change Order:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

Increase] [Decrease] of this Change Order:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

Contract Times with all approved Change Orders:
Substantial completion (days or date): _____
Ready for final payment (days or date): _____

RECOMMENDED:	**ACCEPTED:**	**ACCEPTED:**
By: _____	By: _____	By: _____
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date: _____	Date: _____	Date: _____

Approved by Funding Agency (if applicable): _____ Date: _____

Prepared by the Engineers' Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specifications Institute
/40126/1#52913955 v1

5.2.4 Contractor's Application for Payment

Application for Payment No:._____

	Application Period:	Application Date:
To (Owner): City of Wauchula	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

APPLICATION FOR PAYMENT

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
TOTALS		
NET CHANGE BY CHANGE ORDERS		

CONTRACTOR'S CERTIFICATION

The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By:	Date:

1. ORIGINAL CONTRACT PRICE ..... $_____
2. Net change by Change Orders ..... $_____
3. CURRENT CONTRACT PRICE (Line 1 ± 2) ..... $_____
4. TOTAL COMPLETED AND STORED TO DATE
   (Column F on Progress Estimate) ..... $_____
5. RETAINAGE:
   a. _____ % x $_____ Work Completed ..... $_____
   b. _____ % x $_____ Stored Material ..... $_____
   c. Total Retainage (Line 5a + Line 5b) ..... $_____
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c) ..... $_____
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application) ..... $_____
8. AMOUNT DUE THIS APPLICATION ..... $_____
9. BALANCE TO FINISH, PLUS RETAINAGE
   (Column G on Progress Estimate + Line 5 above) ..... $_____

Payment of: $_____ _____
(Line 8 or other - attach explanation of other amount)

is recommended by: _____ _____
(Engineer) (Date)

Payment of: $_____
(Line 8 or other - attach explanation of other amount)

is approved by: _____ _____
(Owner) (Date)

Approved by: _____ Funding Agency (if applicable) (Date)

_____

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)
	Totals							

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item Specification Section No.	Description	Scheduled Value	C From Previous Application (C + D)	D This Period	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)

	Totals							

Progress Estimate **Contractor's Application**

For (contract):					Application Number:			
Application Period:					Application Date:			
A		B	Work Completed		E	F		G
Item			C	D		Total Completed and Stored to Date (C + D + E)	% (F) B	Balance to Finish (B - F)
Specification Section No.	Description	Scheduled Value	From Previous Application (C + D)	This Period	Materials Presently Stored (not in C or D)			

	Totals							

5.2.5 Field Order Form

No. _____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

Attention:
You are hereby directed to promptly execute this Field Order for minor changes in the Work without changes in Contract Price or Contract Times. If you consider that a change in Contract Price or Contract Times is required, please notify the Engineer immediately and before proceeding with this Work.

Reference: _____ _____
(Specification Section(s)) (Drawing(s) / Detail(s))

Description:

Attachments:

Engineer:	Date:
Receipt Acknowledged by (Contractor):	Date:

Copy to Owner

5.2.6 Notice of Award

Dated _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

Bidder:

Bidder's Address: (send Certified Mail, Return Receipt Requested)

You are notified that your Bid dated _____ for the above Contract has been considered. You are the Successful Bidder and are awarded a Contract for _____

(Indicate total Work, alternates or sections or Work awarded.)

The Contract Price of your Contract is _____ Dollars ($_____)

_____ copies of each of the proposed Contract Documents (except Drawings) accompany this Notice of Award.

_____ sets of the Drawings will be delivered separately or otherwise made available to you immediately.

You must comply with the following conditions precedent within five (5) days of the date you receive this Notice of Award.

1. Deliver to the Owner fully executed counterparts of the Contract Documents.
2. Deliver with the executed Contract Documents the Contract Security [Bonds].
3. Other conditions precedent:

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award and declare your Bid security forfeited.

Within ten days after you comply with the above conditions, Owner will return to you one fully executed counterpart of the Contract Documents.

City of Wauchula
Owner

By: _____
Authorized Signature

_____
Title

Copy to Engineer

Prepared by the Engineers' Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specifications Institute
/40126/1#52913955 v1

5.2.7 Notice to Proceed

Dated _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**
Contractor:		
Contractor's Address: (send Certified Mail, Return Receipt Requested)		

You are notified that the Contract Times under the above contract will commence to run on _____. On or before that date, you are to start performing your obligations under the Contract Documents. The date of Substantial completion is _____ and the date of readiness for final payment is _____ _____ [(or) the number of days to achieve Substantial Completion is _____ and the number of days to achieve readiness for final payment is_____].

Before you may start any Work at the Site, you and Owner must each deliver to the other (with copies to Engineer and other identified additional insureds) certificates of insurance which each is required to purchase and maintain in accordance with the Contract Documents.

Also, before you may start any Work at the Site, you must [add other requirements]:

_____

_____

_____

_____ _____

Contractor Owner

Received by:_____ Given By: _____

Authorized Signature

_____ _____

Title Title

_____ _____

Date Date

Copy to Engineer

5.2.8 Payment Bond

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

CONTRACT
Date:
Amount:
Description (Name and Location):

BOND
Bond Number:
Date (Not earlier than Contract Date):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL
Company:

Signature: _____(Seal)
Name and Title:

SURETY

_____(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

Attest: _____
Signature and Title

CONTRACTOR AS PRINCIPAL SURETY
Company:
Signature: _____(Seal)
Name and Title:

_____(Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

Attest: _____
Signature and Title:

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.
/40126/1#52913955 v1

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to Owner, this obligation shall be null and void if Contractor:
   2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

   2.2. Defends, indemnifies, and holds harmless Owner from all claims, demands, liens, or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided Owner has promptly notified Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no Owner Default.

3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.

4. Surety shall have no obligation to Claimants under this Bond until:

   4.1. Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

   4.2. Claimants who do not have a direct contract with Contractor:

      1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and

      2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor had indicated the claim will be paid directly or indirectly; and

      3. Not having been paid within the above 30 days, have sent a written notice to Surety and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.

5. If a notice by a Claimant required by Paragraph 4 is provided by Owner to Contractor or to Surety, that is sufficient compliance.

6. When a Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at Surety's expense take the following actions:

   6.1. Send an answer to that Claimant, with a copy to Owner, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

   6.2. Pay or arrange for payment of any undisputed amounts.

7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by Owner to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and Owner accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under this Bond, subject to Owner's priority to use the funds for the completion of the Work.

9. Surety shall not be liable to Owner, Claimants, or others for obligations of Contractor that are unrelated to the Contract. Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, Owner, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. DEFINITIONS

   15.1. Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and Contractor's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

   15.2. Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.

   15.3. Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

FOR INFORMATION ONLY (*Name, Address and Telephone)*

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.
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Surety Agency or Broker:
Owner's Representative (*Engineer or Other Party*):

5.2.9 Performance Bond

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT
Effective Date of Agreement:
Amount:
Description (*Name and Location*):

BOND
Bond Number:
Date (*Not earlier than Effective Date of Agreement*):
Amount:
Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	SURETY
_____(Seal)	_____(Seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint venturers, if necessary.

Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner for the performance of the Contract, which is incorporated herein by reference.

1. If Contractor performs the Contract, Surety and Contractor have no obligation under this Bond, except to participate in conferences as provided in Paragraph 2.1.

2. If there is no Owner Default, Surety's obligation under this Bond shall arise after:
   2.1 Owner has notified Contractor and Surety, at the addresses described in Paragraph 9 below, that Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with Contractor and Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If Owner, Contractor, and Surety agree, Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive Owner's right, if any, subsequently to declare a Contractor Default; and
   2.2 Owner has declared a Contractor Default and formally terminated Contractor's right to complete the Contract. Such Contractor Default shall not be declared earlier than 20 days after Contractor and Surety have received notice as provided in Paragraph 2.1; and
   2.3 Owner has agreed to pay the Balance of the Contract Price to:
      1. Surety in accordance with the terms of the Contract; or
      2. Another contractor selected pursuant to Paragraph 3.3 to perform the Contract.

3. When Owner has satisfied the conditions of Paragraph 2, Surety shall promptly, and at Surety's expense, take one of the following actions:
   3.1 Arrange for Contractor, with consent of Owner, to perform and complete the Contract; or
   3.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
   3.3 Obtain bids or negotiated proposals from qualified contractors acceptable to Owner for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by Owner and contractor selected with Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract, and pay to Owner the amount of damages as described in Paragraph 5 in excess of the Balance of the Contract Price incurred by Owner resulting from Contractor Default; or
   3.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:
      1. After investigation, determine the amount for which it may be liable to Owner and, as soon as practicable after the amount is determined, tender payment therefor to Owner; or
      2. Deny liability in whole or in part and notify Owner citing reasons therefor.

4. If Surety does not proceed as provided in Paragraph 3 with reasonable promptness, Surety shall be deemed to be in default on this Bond 15 days after receipt of an additional written notice from Owner to Surety demanding that Surety perform its obligations under this Bond, and Owner shall be entitled to enforce any remedy available to Owner. If Surety proceeds as provided in Paragraph 3.4, and Owner refuses the payment tendered or Surety has denied liability, in whole or in part, without further notice Owner shall be entitled to enforce any remedy available to Owner.

5. After Owner has terminated Contractor's right to complete the Contract, and if Surety elects to act under Paragraph 3.1, 3.2, or 3.3 above, then the responsibilities of Surety to Owner shall not be greater than those of Contractor under the Contract, and the responsibilities of Owner to Surety shall not be greater than those of Owner under the Contract. To the limit of the amount of this Bond, but subject to commitment by Owner of the Balance of the Contract Price to mitigation of costs and damages on the Contract, Surety is obligated without duplication for:

5.1 The responsibilities of Contractor for correction of defective Work and completion of the Contract;
5.2 Additional legal, design professional, and delay costs resulting from Contractor's Default, and resulting from the actions of or failure to act of Surety under Paragraph 3; and
5.3 Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of Contractor.

6. Surety shall not be liable to Owner or others for obligations of Contractor that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than Owner or its heirs, executors, administrators, or successors.

7. Surety hereby waives notice of any change, including changes of time, to Contract or to related subcontracts, purchase orders, and other obligations.

8. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located, and shall be instituted within two years after Contractor Default or within two years after Contractor ceased working or within two years after Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

9. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the address shown on the signature page.

10. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

11. Definitions.
11.1 Balance of the Contract Price: The total amount payable by Owner to Contractor under the Contract after all proper adjustments have been made, including allowance to Contractor of any amounts received or to be received by Owner in settlement of insurance or other Claims for damages to which Contractor is entitled, reduced by all valid and proper payments made to or on behalf of Contractor under the Contract.
11.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
11.3 Contractor Default: Failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.
11.4 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or otherwise comply with the other terms thereof.

FOR INFORMATION ONLY (*Name, Address and Telephone)* Surety Agency or Broker: Owner's Representative (*Engineer or Other Party*):

5.2.10 Work Change Directive Form

No._____

Date of Issuance: _____ Effective Date: _____

Project:	**Owner:** City of Wauchula	**Owner's Contract No.:**
Contract:		**Date of Contract:**
Contractor:		**Engineer's Project No.:**

You are directed to proceed promptly with the following change(s):

Item No.	Description

Attachments (list documents supporting change):

_____

_____

Purpose for Work Change Directive:

- □ Authorization for Work described herein to proceed on the basis of Cost of the Work due to:
  - □ Nonagreement on pricing of proposed change.
  - □ Necessity to expedite Work described herein prior to agreeing to changes on Contract Price and Contract Time

Estimated change in Contract Price and Contract Times:

Contract Price $_____ (increase/decrease) Contract Time _____ (increase/decrease) days

If the change involves an increase, the estimated amounts are not to be exceeded without further authorization.

Recommended for Approval by Engineer:	Date:
Authorized for Owner by:	Date:
Accepted for Contractor by:	Date:
Approved by Funding Agency (if applicable):	Date:

DIVISION 6:
TECHNICAL SPECIFICATIONS

Refer to Florida Department of Transportation Standard Specifications for Road and Bridge Construction (Latest Edition) for all specifications.