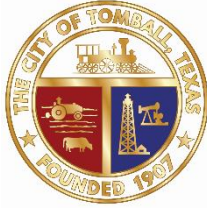


**NOTICE OF CITY COUNCIL SPECIAL - WORKSHOP  
CITY OF TOMBALL, TEXAS**



**Monday, May 19, 2025  
5:00 PM**

**Notice is hereby given of a Special Workshop meeting of the Tomball City Council, to be held on Monday, May 19, 2025 at 5:00 PM, City Hall, 401 Market Street, Tomball, Texas 77375, for the purpose of considering the following agenda items. All agenda items are subject to action. The Tomball City Council reserves the right to meet in a closed session for consultation with attorney on any agenda item should the need arise and if applicable pursuant to authorization by Title 5, Chapter 551, of the Texas Government Code.**

The public toll-free dial-in numbers to participate in the telephonic meeting are any one of the following (dial by your location): **+1 312 626 6799 US (Chicago); +1 646 876 9923 US (New York); +1 301 715 8592 US; +1 346 248 7799 US (Houston); +1 408 638 0968 US (San Jose); +1 669 900 6833 US (San Jose); or +1 253 215 8782 US (Tahoma) - Meeting ID: 813 7297 2441 Passcode: 222394.** The public will be permitted to offer public comments telephonically, as provided by the agenda and as permitted by the presiding officer during the meeting.

- A. Call to Order
- B. Public Comments and Receipt of Petitions; *[At this time, anyone will be allowed to speak on any matter other than personnel matters or matters under litigation, for length of time not to exceed three minutes. No Council/Board discussion or action may take place on a matter until such matter has been placed on an agenda and posted in accordance with law - GC, 551.042.]*
- C. General Discussion
  - 1. Workshop Discussion Only – Discuss recommendation to revise the speed zone along portion of FM 2920.
- D. Proposed Future Agenda Items (To be discussed in order or at Councils discretion, time permitting)
  - 1. Workshop Discussion Only - Approve an agreement with Consolidated Traffic Controls for the installation and maintenance of the Opticom Traffic Preemption System through HGACBuy contract number PE05-21, for a not-to-exceed amount

of \$75,069 annually for 10 years, authorize the expenditure of funds therefor, and authorize the City Manager to execute any and all documents related to the expenditure. This amount is included in the FY 2024-2025 budget.

2. Workshop Discussion Only – Approve a professional services agreement with Langford Community Management for grant administration services related to the Texas Community Development Block Grant Community Development Fund 2025-2026 (TxCDBG CDF 2025-26) grant for an amount not-to-exceed \$75,000, therefor, and authorize the City Manager to execute any and all documents related to the services. These expenditures are to be paid from grant funds received from the TxCDBG CDF 2025-26 grant program, if received.
3. Workshop Discussion Only – Approve a contract with Topwater Construction Services, LLC through a TIPS-USA contract (Contract No. 211001), for repairs to the drainage area along Zion Road, for an amount of \$38,500, approve the expenditure of funds thereof, and authorize the City Manager to execute any and all documents related to the purchases. This expenditure is included in the Fiscal Year 2024-2025 Budget.
4. Workshop Discussion Only – Approve a Professional Services Agreement with AIG Technical Services, LLC for Project Number 2025-10015, M121W Channel Segment C, for a total contract amount not-to-exceed \$74,985, approve the expenditure of funds therefor, and authorize the City Manager to execute any and all documents related to the purchases. This expenditure is being proposed to be added to the Fiscal Year 2024-2025 Capital Improvement Budget to be paid from drainage impact fees.
5. Workshop Discussion Only – Approve a contract with Industrial TX Corp. for the construction of the East Water Plant (Project No. 2023-10010), for a not-to-exceed amount of \$14,793,000 (RFP No. 2025-10), authorize the expenditure of funds therefor, and authorize the City Manager to execute any and all documents. The expenditure was included in the Fiscal Year 2024-2025 Budget as part of the 2025-2029 Capital Improvement Plan.

E. Future Workshop Items

1. Discuss land use compatibility.

F. Adjournment

## **C E R T I F I C A T I O N**

I hereby certify that the above notice of meeting was posted on the bulletin board of City Hall, City of Tomball, Texas, a place readily accessible to the general public at all times, on the 15th day of May 2025 by 6:00 PM, and remained posted for at least 72 continuous hours preceding the scheduled time of said meeting.

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Shannon Bennett, TRMC  
Assistant City Secretary

This facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact the City Secretary's office at (281) 290-1019 for further information.

# City Council Meeting

## Agenda Item

### Data Sheet

Meeting Date: May 19, 2025

#### Topic:

Workshop Discussion Only – Discuss recommendation to revise the speed zone along portion of FM 2920.

#### Background:

Staff was notified by the Texas Department of Transportation on January 28, 2025 that a Speed Zone Study had been completed along FM 2920 within the city limits. Based on the traffic study, it is recommended to revise the speed zone by decreasing the speed limit and establishing a school zone along certain sections of FM 2920:

Along FM 2920 from the east city limit of the City of Tomball to the Chestnut Road a distance of approximately 0.957 mile, the speed limit shall be 40 MPH.

Along FM 2920 a school zone, from Howard Road to the point of 390 feet west of east city limit of the City of Tomball, a distance of approximately 0.800 mile, the speed limit shall be 25 MPH WHEN FLASHING.

On February 17, 2025, staff presented the request to City Council for discussion and consideration for adoption. Based on feedback received from City Council staff met with TxDOT and requested the following:

1. Justification on the proposed changes
2. Updated traffic study/speed zone study comparing the current speed limit and the requested change

The updated speed study was conducted on Friday, May 9 and the recommendations were provided to staff on Monday, May 12. Based on the updated study the recommended speed zone is as follows:

1. From Chestnut to FM 2978 the recommended speed is 35 mph.
2. A school zone along FM 2920 from Howard to FM 2978 of 20 mph school when flashing.

Based on the updated speed study, staff has requested TxDOT presence at the City Council Workshop to allow discussion between both organizations and to review the results of the updated traffic study/speed zone study.

**Origination:** Public Works

**Recommendation:**

**Party(ies) responsible for placing this item on agenda:**

Drew Huffman, Public Works  
Director



**FUNDING (IF APPLICABLE)**

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: \_\_\_\_\_ No: \_\_\_\_\_ If yes, specify Account Number: # \_\_\_\_\_

If no, funds will be transferred from account # \_\_\_\_\_ To account # \_\_\_\_\_

Signed	Drew Huffman	Date	Approved by		Date
	Staff Member			City Manager	

# City Council Meeting

## Agenda Item

### Data Sheet

Meeting Date: May 19, 2025

#### Topic:

Approve an agreement with Consolidated Traffic Controls for the installation and maintenance of the Opticom Traffic Preemption System through HGACBuy contract number PE05-21, for a not-to-exceed amount of \$75,069 annually for 10 years, authorize the expenditure of funds therefor, and authorize the City Manager to execute any and all documents related to the expenditure. This amount is included in the FY 2024-2025 budget.

#### Background:

The Opticom GPS-based traffic signal preemption system is a safety and efficiency tool designed to enhance emergency response by allowing fire, police, and EMS vehicles to control traffic signals as they approach intersections. Using GPS and wireless communication, the system detects authorized emergency vehicles in real time and adjusts traffic lights to provide a green light in their direction of travel, while safely clearing cross traffic. This reduces response times, improves safety for first responders and the public, and helps mitigate congestion during emergencies.

The technology is scalable across the city and ESD #15, is Texas Department of Transportation approved, and integrates with existing traffic infrastructure. The Opticom system is already in use throughout Northwest Harris County, utilized primarily by Emergency Service District Fire Departments and EMS agencies.

**Origination:** Fire Department

**Recommendation:** Approval

**Party(ies) responsible for placing this item on agenda:** Joe Sykora, Fire Chief

#### FUNDING (IF APPLICABLE)

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: X No: \_\_\_\_\_

If yes, specify Account Number: # 100-142 & 121-6106

If no, funds will be transferred from account: # \_\_\_\_\_ To Account: # \_\_\_\_\_

**Signed:** Joe Sykora 05/13/2025 **Approved by:** \_\_\_\_\_  
Staff Member Date City Manager Date

**AMENDMENT No. 2 to CONTRACT No. PE05-21**  
**For**  
Traffic Control, Enforcement & Signal Preemption Equipment  
**Between**  
**HOUSTON-GALVESTON AREA COUNCIL**  
**And**  
**Consolidated Traffic Controls, Inc.**


THIS AMENDMENT modifies the above referenced Contract as follows:

This contract is extended through April 30, 2024 Midnight CT.


Unless otherwise noted, this amendment goes into effect on the date signed by **H-GAC**. All other terms and conditions of this Contract shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective duly authorized representatives.

Signed for **Houston-Galveston Area Council**,  
Houston, Texas

DocuSigned by:  
  
82EG270D5D61423  
\_\_\_\_\_  
Chuck Wemple, Executive Director  
Date: 4/27/2023

Signed for: **Consolidated Traffic Controls, Inc.**

DocuSigned by:  
  
4CFC215BBD244A0...  
\_\_\_\_\_  
Bryan Jones Senior Vice President  
Date: 4/26/2023

Printed Name & Title:

Global Traffic Technologies, LLC.  
7800 Third Street North, Bldg 100  
St. Paul, MN, 55128-5441, US  
Global Traffic Technologies, LLC. is a subsidiary  
of Miovision Technologies Incorporated

Bill To	Customer	Estimate Number	Date	Expires
ESD 15 Tomball Fire Dept	ESD 15 Tomball Fire Dept	Q-31431		8/7/2024

Ship To	Procurement Method	Term: For Ongoing Services (Years)
ESD 15 Tomball Fire Dept	PCaaS	10

Solution Type	Intersections	Intersection Yearly Price	Vehicles	Vehicle Yearly Price
Emergency and Law Enforcement	28	USD 47,529.00	16	USD 12,960.00

Product Name	Term (Months)	Annual Price	Price	Qty	Total
Opticom Cloud Connected Vehicle	120	\$600.00	\$6,000.00	16	\$96,000.00
=>Installation, vehicles (modems)	120	\$210.00	\$2,100.00	16	\$33,600.00
Opticom Cloud Connected Intersection	120	\$660.00	\$6,600.00	28	\$184,800.00
=>Opticom Model 764 Multimode Phase Selector	120	\$420.00	\$4,200.00	28	\$117,600.00
=>RV50X Intersection Modem Kit w/Antenna & AC Adapter	120	\$240.00	\$2,400.00	28	\$67,200.00
=>Opticom 760 Card Rack with P1 Harness Assy	120	\$108.00	\$1,080.00	28	\$30,240.00
=>Installation, Intersection Traffic Cabinet Only (modems)	120	\$210.00	\$2,100.00	28	\$58,800.00
=>Configuration, Intersections (Centralized)	120	\$30.00	\$300.00	28	\$8,400.00
External Cabinet	120	\$55.00	\$550.00	15	\$8,250.00
<b>One Time Total:</b>					USD 0.00
<b>Annual Total:</b>					USD 60,489.00
<b>Subtotal:</b>					USD 604,890.00
<b>Tax :</b>					
<b>Total:</b>					USD 604,890.00

Please reference estimate number **Q-31431** when submitting all purchase orders

#### Proposal Notes:

Customer will need to add the IBR 900 extensibility dock and have net cloud active for the vehicles

#### General Notes:

To the extent this proposal is a "Budgetary Proposal," it is to be used for informational purposes only and is not intended to be a binding contract between the Parties. The prices provided in the Budgetary Proposal are estimates only and are based on information and pricing known as of the date of the Budgetary Proposal.

For services, a signed Master Service Agreement ("MSA") must accompany the order. The terms and conditions that govern the MSA are available at [http://www.gtt.com/sales\\_terms/](http://www.gtt.com/sales_terms/)

[www.gtt.com/sales\\_terms/](http://www.gtt.com/sales_terms/)

When included, intersection installation pricing assumes a standard configuration without complications. Not included in this proposal are the following items, which will require additional fees: 1) crushed conduit or any other issues preventing cable from being installed, 2) lane or road closures, 3) police or other resources needed at the installation area, and/or 4) other third-party costs not known at the time of the proposal. Proposal assumes the intersection cabinets are in good working order and contain wiring diagrams.

Vehicle installation assumes standard installation and does not include: 1) special mounting brackets, 2) excess wiring, and/or 3) swapping out previously installed (replacement) vehicle hardware.

Project management expenses can increase in instances where development, if required, is not fully scoped.

Proposal excludes any activities associated with: 1) traffic control plan, 2) water pollution control plan, 3) changeable message signs/flaggers, 4) permits/bonds/ fees, and/or 5) removal/repair/replacement of concrete, asphalt, conduits or wiring.

Quote does not include any applicable travel expense. A budgetary "not exceed" price can be provided upon request if required.

**For Opticom Cloud Connected Vehicle/Opticom Cloud Connected Intersection:**

- Quote assumes no additional intersection certification or design documents are required.
- Quote does not include formal site acceptance testing, unless otherwise noted.
- Unless otherwise noted, Opticom's PCaaS solution includes one standard monthly report of system health. If custom reports are needed, they can be quoted optionally.
- Quote assumes intersection controllers are EVP-capable and/or TSP-capable as appropriate and have the proper licensing, which is to be enabled prior to Opticom equipment installation.
- Quote assumes any required controller configuration is the responsibility of purchaser and configuration/programming is complete prior to final commissioning.
- Quote assumes all management software will be hosted by Opticom.

**For Opticom Model 764 Multimode Phase Selector/Opticom 760 Card Rack with P1 Harness Assy:**

- Quote assumes Opticom-contracted personnel will have access to intersection cabinets as needed.
- Quote assumes intersection equipment can be installed without the need for additional hardware, such as brackets, separate cabinets, etc.

**For Configuration, Intersections (Centralized):**

- Quote assumes a VPN connection between the cloud-hosted Opticom centralized software application and the traffic network(s) of the targeted intersections.
- Quote assumes purchaser is responsible for network communication to the intersection controllers. Any troubleshooting of issues due to purchaser-initiated network changes will be billed on a time and materials basis.
- Quote assumes all intersections included in this quote are network-connected by the purchaser, with at least 5Mbps and maximum average latency of 200ms.
- Quote assumes intersection controllers are capable of receiving an NTCIP 1202/1211 preemption request from the Opticom centralized system.
- Quote assumes intersection controllers follow the NTCIP 1202/1211 standard, per the published specification.
- Proprietary implementations of NTCIP 1202/1211 or other protocols for network-based preemption requests are not included in this quote.

# H-GAC

Houston-Galveston Area Council

P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement - Extension - Consolidated Traffic Controls, Inc. - Public Services - ID: 13942

## EXTENSION No. 4 to CONTRACT No. PE05-21

For

Traffic Control, Enforcement & Signal Preemption Equipment

Between

**HOUSTON-GALVESTON AREA COUNCIL**

And

**Consolidated Traffic Controls, Inc.**


THIS AMENDMENT modifies the above referenced Contract as follows:

Contract is extended through Apr 30 2026 Midnight CST or the effective date of the contracts resulting from the most recently awarded Request For Proposal (RFP) for Traffic Control, Enforcement & Signal Preemption Equipment, whichever occurs first.

Unless otherwise noted, this amendment goes into effect on the date signed by **H-GAC**. All other terms and conditions of this Contract shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective duly authorized representatives.

Signed for: **Houston-Galveston Area Council**

DocuSigned by:  
  
82EC270D5D61423...

Chuck Wemple  
Executive Director  
Date: 3/13/2025

Signed for: **Consolidated Traffic Controls, Inc.**

Signed by:  
  
FB001398C86D40F...

Printed Name:  
Title:

Bryan Jones  
Senior Vice President  
Date: 3/10/2025

Global Traffic Technologies, LLC.  
 7800 Third Street North, Bldg 100  
 St. Paul, MN, 55128-5441, US  
 Global Traffic Technologies, LLC. is a subsidiary  
 of Miovision Technologies Incorporated

Bill To	Customer	Estimate Number	Date	Expires
Police Department of City of Tomball (TX)	Police Department of City of Tomball (TX)	Q-31441		8/7/2024

Ship To	Procurement Method	Term: For Ongoing Services (Years)
Police Department of City of Tomball (TX)	PCaaS	10

Solution Type	Intersections	Intersection Yearly Price	Vehicles	Vehicle Yearly Price
Law Enforcement	0	USD 0.00	18	USD 14,580.00

Product Name	Term (Months)	Annual Price	Price	Qty	Total
Opticom Cloud Connected Vehicle	120	\$600.00	\$6,000.00	18	\$108,000.00
=>Installation, vehicles (modems)	120	\$210.00	\$2,100.00	18	\$37,800.00

<b>One Time Total:</b>	USD 0.00
<b>Annual Total:</b>	USD 14,580.00
<b>Subtotal:</b>	USD 145,800.00
<b>Tax :</b>	
<b>Total:</b>	USD 145,800.00

Please reference estimate number **Q-31441** when submitting all purchase orders

**Proposal Notes:**  
 Customer will need to add the extensibility dock for the IBR 900's and have Cradle Point Net Cloud active for the vehicles.

**General Notes:**  
 To the extent this proposal is a "Budgetary Proposal," it is to be used for informational purposes only and is not intended to be a binding contract between the Parties. The prices provided in the Budgetary Proposal are estimates only and are based on information and pricing known as of the date of the Budgetary Proposal.

For services, a signed Master Service Agreement ("MSA") must accompany the order. The terms and conditions that govern the MSA are available at [http://www.gtt.com/sales\\_terms/](http://www.gtt.com/sales_terms/)

When included, intersection installation pricing assumes a standard configuration without complications. Not included in this proposal are the following items, which will require additional fees: 1) crushed conduit or any other issues preventing cable from being installed, 2) lane or road closures, 3) police or other resources needed at the installation area, and/or 4) other third-party costs not known at the time of the proposal. Proposal assumes the intersection cabinets are in good working order and contain wiring diagrams.

Vehicle installation assumes standard installation and does not include: 1) special mounting brackets, 2) excess wiring, and/or 3) swapping out previously installed (replacement) vehicle hardware.

Project management expenses can increase in instances where development, if required, is not fully scoped.

Proposal excludes any activities associated with: 1) traffic control plan, 2) water pollution control plan, 3) changeable message signs/flaggers, 4) permits/bonds/ fees, and/or 5) removal/repair/replacement of concrete, asphalt, conduits or wiring.

Quote does not include any applicable travel expense. A budgetary "not exceed" price can be provided upon request if required.

**For Opticom Cloud Connected Vehicle/Opticom Cloud Connected Intersection:**

- Quote assumes no additional intersection certification or design documents are required.
- Quote does not include formal site acceptance testing, unless otherwise noted.
- Unless otherwise noted, Opticom's PCaaS solution includes one standard monthly report of system health. If custom reports are needed, they can be quoted optionally.
- Quote assumes intersection controllers are EVP-capable and/or TSP-capable as appropriate and have the proper licensing, which is to be enabled prior to Opticom equipment installation.
- Quote assumes any required controller configuration is the responsibility of purchaser and configuration/programming is complete prior to final commissioning.
- Quote assumes all management software will be hosted by Opticom.

DRAFT



# H-GAC

Houston-Galveston Area Council  
P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

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Cooperative Agreement - Contract - Consolidated Traffic Controls, Inc. - Public Services - ID: 6676

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## GENERAL PROVISIONS

This Agreement is made and entered into, by and between the Houston-Galveston Area Council hereinafter referred to as H-GAC having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027 and Consolidated Traffic Controls, Inc., hereinafter referred to as the Contractor, having its principal place of business at 1016 Enterprise PL, Arlington, TX 76001.

WITNESSETH:

WHEREAS, H-GAC hereby engages the Contractor to perform certain services in accordance with the specifications of the Agreement; and

WHEREAS, the Contractor has agreed to perform such services in accordance with the specifications of the Agreement;

NOW, THEREFORE, H-GAC and the Contractor do hereby agree as follows:

### **ARTICLE 1: LEGAL AUTHORITY**

The Contractor warrants and assures H-GAC that it possesses adequate legal authority to enter into this Agreement. The Contractor's governing body, where applicable, has authorized the signatory official(s) to enter into this Agreement and bind the Contractor to the terms of this Agreement and any subsequent amendments hereto.

### **ARTICLE 2: APPLICABLE LAWS**

The Contractor agrees to conduct all activities under this Agreement in accordance with all federal laws, executive orders, policies, procedures, applicable rules, regulations, directives, standards, ordinances, and laws, in effect or promulgated during the term of this Agreement, including without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and licensing laws and regulations. When required, the Contractor shall furnish H-GAC with satisfactory proof of its compliance therewith.

### **ARTICLE 3: PUBLIC INFORMATION**

Except as stated below, all materials submitted to H-GAC, including any attachments, appendices, or other information submitted as a part of a submission or Agreement, are considered public information, and become the property of H-GAC upon submission and may be reprinted, published, or distributed in any manner by H-GAC according to open records laws, requirements of the US Department of Labor and the State of Texas, and H-GAC policies and procedures. In the event the Contractor wishes to claim portions of the response are not subject to the Texas Public Information Act, it shall so; however, the determination of the Texas Attorney General as to whether such information must be disclosed upon a public request shall be binding on the Contractor. H-GAC will request such a determination only if Contractor bears all costs for preparation of the submission. H-GAC is not responsible for the return of creative examples of work submitted. H-GAC will not be held accountable if material from submissions is obtained without the written consent of the contractor by parties other than H-GAC, at any time during the evaluation process.

### **ARTICLE 4: INDEPENDENT CONTRACTOR**

The execution of this Agreement and the rendering of services prescribed by this Agreement do not change the independent status of H-GAC or the Contractor. No provision of this Agreement or act of H-GAC in performance of the Agreement shall be construed as making the Contractor the agent, servant or employee of H-GAC, the State of Texas or the United States Government. Employees of the Contractor are subject to the exclusive control and supervision of the Contractor. The Contractor is solely responsible for employee related disputes and discrepancies, including employee payrolls and any claims arising therefrom.

#### **ARTICLE 5: ANTI-COMPETITIVE BEHAVIOR**

Contractor will not collude, in any manner, or engage in any practice which may restrict or eliminate competition or otherwise restrain trade.

#### **ARTICLE 6: SUSPENSION AND DEBARMENT**

Debarment and Suspension (Executive Orders 12549 and 12689) – A contract award (2 CFR 180.220) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Pursuant to the Federal Rule above, Respondent certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency or by the State of Texas and at all times during the term of the Contract neither it nor its principals will be debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency or by the State of Texas Respondent shall immediately provide the written notice to H-GAC if at any time the Respondent learns that this certification was erroneous when submitted or has become erroneous by reason of changed circumstances. H-GAC may rely upon a certification of the Respondent that the Respondent is not debarred, suspended, ineligible, or voluntarily excluded from the covered contract, unless the H-GAC knows the certification is erroneous.

#### **ARTICLE 7: GOAL FOR CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN’S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS (if subcontracts are to be let)**

H-GAC’s goal is to assure that small and minority businesses, women's business enterprises, and labor surplus area firms are used when possible in providing services under a contract. In accordance with federal procurements requirements of 2 CFR §200.321, if subcontracts are to be let, the prime contractor must take the affirmative steps listed below:

1. Placing qualified small and minority businesses and women’s business enterprises on solicitation lists;
2. Assuring that small and minority businesses and women’s business enterprises are solicited whenever they are potential sources;
3. Dividing total requirements, when economically feasible, into smaller task or quantities to permit maximum participation by small and minority businesses, and women’s business enterprises;
4. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women’s business enterprises;
5. Using the services and assistance as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
- 6.

Nothing in this provision will be construed to require the utilization of any firm that is either unqualified or unavailable. The Small Business Administration (SBA) is the primary reference and database for information on requirements related to Federal Subcontracting <https://www.sba.gov/federal-contracting/contracting-guide/prime-subcontracting>

NOTE: The term DBE as used in this solicitation is understood to encompass all programs/business enterprises

such as: Small Disadvantaged Business (SDB), Historically Underutilized Business (HUB), Minority Owned Business Enterprise (MBE), Women Owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE) or other designation as issued by a certifying agency.

**Contractor agrees to work with and assist HGACBuy customer in meeting any DBE targets and goals, as may be required by any rules, processes or programs they might have in place. Assistance may include compliance with reporting requirements, provision of documentation, consideration of Certified/Listed subcontractors, provision of documented evidence that an active participatory role for a DBE entity was considered in a procurement transaction, etc.**

#### **ARTICLE 8: SCOPE OF SERVICES**

The services to be performed by the Contractor are outlined in an Attachment to this Agreement.

#### **ARTICLE 9: PERFORMANCE PERIOD**

This Agreement shall be performed during the period which begins May 01 2021 and ends Apr 30 2023. All services under this Agreement must be rendered within this performance period, unless directly specified under a written change or extension provisioned under Article 21, which shall be fully executed by both parties to this Agreement.

#### **ARTICLE 10: PAYMENT OR FUNDING**

Payment provisions under this Agreement are outlined in the Special Provisions. H-GAC will not pay for any expenses incurred prior to the execution date of a contract, or any expenses incurred after the termination date of the contract.

#### **ARTICLE 11: PAYMENT FOR WORK**

The H-GAC Customer is responsible for making payment to the Contractor upon delivery and acceptance of the goods or completion of the services and submission of the subsequent invoice.

#### **ARTICLE 12: PAYMENT TERMS/PRE-PAYMENT/QUANTITY DISCOUNTS**

If discounts for accelerated payment, pre-payment, progress payment, or quantity discounts are offered, they must be clearly indicated in the Contractor's submission prior to contract award. The applicability or acceptance of these terms is at the discretion of the Customer.

#### **ARTICLE 13: REPORTING REQUIREMENTS**

If the Contractor fails to submit to H-GAC in a timely and satisfactory manner any report required by this Agreement, or otherwise fails to satisfactorily render performances hereunder, H-GAC may terminate this agreement with notice as identified in Article 29 of these General Provisions. H-GAC has final determination of the adequacy of performance and reporting by Contractor. Termination of this agreement for failure to perform may affect Contractor's ability to participate in future opportunities with H-GAC. The Contractor's failure to timely submit any report may also be considered cause for termination of this Agreement. Any additional reporting requirements shall be set forth in the Special Provisions of this Agreement.

#### **ARTICLE 14: INSURANCE**

Contractor shall maintain insurance coverage for work performed or services rendered under this Agreement as outlined and defined in the attached Special Provisions.

#### **ARTICLE 15: SUBCONTRACTS AND ASSIGNMENTS**

Except as may be set forth in the Special Provisions, the Contractor agrees not to assign, transfer, convey, sublet or otherwise dispose of this Agreement or any right, title, obligation or interest it may have therein to any third party without prior written approval of H-GAC. The Contractor acknowledges that H-GAC is not liable to any subcontractor or assignee of the Contractor. The Contractor shall ensure that the performance rendered under all

subcontracts shall result in compliance with all the terms and provisions of this Agreement as if the performance rendered was rendered by the Contractor. Contractor shall give all required notices, and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable law or regulation, H-GAC shall not be responsible for monitoring Contractor's compliance, or that of Contractor's subcontractors, with any laws or regulations.

#### **ARTICLE 16: AUDIT**

Notwithstanding any other audit requirement, H-GAC reserves the right to conduct or cause to be conducted an independent audit of any transaction under this Agreement, such audit may be performed by the H-GAC local government audit staff, a certified public accountant firm, or other auditors designated by H-GAC and will be conducted in accordance with applicable professional standards and practices. The Contractor understands and agrees that the Contractor shall be liable to the H-GAC for any findings that result in monetary obligations to H-GAC.

#### **ARTICLE 17: TAX EXEMPT STATUS**

H-GAC and Customer members are either units of government or qualified non-profit agencies, and are generally exempt from Federal and State sales, excise or use taxes. Respondent must not include taxes in its Response. It is the responsibility of Contractor to determine the applicability of any taxes to an order and act accordingly. Exemption certificates will be provided upon request.

#### **ARTICLE 18: EXAMINATION OF RECORDS**

The Contractor shall maintain during the course of the work complete and accurate records of all of the Contractor's costs and documentation of items which are chargeable to H-GAC under this Agreement. H-GAC, through its staff or designated public accounting firm, the State of Texas, and United States Government, shall have the right at any reasonable time to inspect, copy and audit those records on or off the premises by authorized representatives of its own or any public accounting firm selected by H-GAC. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. Failure to provide access to records may be cause for termination of the Agreement. The records to be thus maintained and retained by the Contractor shall include (without limitation): (1) personnel and payroll records, including social security numbers and labor classifications, accounting for total time distribution of the Contractor's employees working full or part time on the work, as well as cancelled payroll checks, signed receipts for payroll payments in cash, or other evidence of disbursement of payroll payments; (2) invoices for purchases, receiving and issuing documents, and all other unit inventory records for the Contractor's stocks or capital items; and (3) paid invoices and cancelled checks for materials purchased and for subcontractors' and any other third parties' charges.

Contractor agrees that H-GAC will have the right, with reasonable notice, to inspect its records pertaining to purchase orders processed and the accuracy of the fees payable to H-GAC. The Contractor further agrees that the examination of records outlined in this article shall be included in all subcontractor or third-party agreements.

#### **ARTICLE 19: RETENTION OF RECORDS**

The Contractor and its subcontractors shall maintain all records pertinent to this Agreement, and all other financial, statistical, property, participant records, and supporting documentation for a period of no less than seven (7) years from the later of the date of acceptance of the final payment or until all audit findings have been resolved. If any litigation, claim, negotiation, audit or other action involving the records has been started before the expiration of the retention period, the records shall be retained until completion of the action and resolution of all issues which arise from it, or until the end of the seven (7) years, whichever is later, and until any outstanding litigation, audit, or claim has been fully resolved.

#### **ARTICLE 20: DISTRIBUTORS, VENDORS, RESELLERS**

Contractor agrees and acknowledges that any such designations of distributors, vendors, resellers or the like are for the convenience of the Contractor only and the awarded Contractor will remain responsible and liable for all

obligations under the Contract and the performance of any designated distributor, vendor, reseller, etc. Contractor is also responsible for receiving and processing any Customer purchase order in accordance with the Contract and forwarding of the Purchase Order to the designated distributor, vendor, reseller, etc. to complete the sale or service. H-GAC reserves the right to reject any entity acting on the Contractor's behalf or refuse to add entities after a contract is awarded.

#### **ARTICLE 21: CHANGE ORDERS AND AMENDMENTS**

- A. Any alterations, additions, or deletions to the terms of this Agreement, which are required by changes in federal or state law or by regulations, are automatically incorporated without written amendment hereto, and shall become effective on the date designated by such law or by regulation.
- B. To ensure the legal and effective performance of this Agreement, both parties agree that any amendment that affects the performance under this Agreement must be mutually agreed upon and that all such amendments must be in writing. After a period of no less than 30 days subsequent to written notice, unless sooner implementation is required by law, such amendments shall have the effect of qualifying the terms of this Agreement and shall be binding upon the parties as if written herein.
- C. Customers have the right to issue a change order to any purchase orders issued to the Contractor for the purposes of clarification or inclusion of additional specifications, qualifications, conditions, etc. The change order must be in writing and agreed upon by Contractor and the Customer agency prior to issuance of any Change Order. A copy of the Change Order must be provided by the Contractor to, and acknowledged by, H-GAC.

#### **ARTICLE 22: CONTRACT ITEM CHANGES**

- A. If a manufacturer discontinues a contracted item, that item will automatically be considered deleted from the contract with no penalty to Contractor. However, H-GAC may at its sole discretion elect to make a contract award to the next lowest Respondent for the item, or take any other action deemed by H-GAC, at its sole discretion, to be in the best interests of its Customers.
- B. If a manufacturer makes any kind of change in a contracted item which affects the contract price, Contractor must advise H-GAC of the details. H-GAC may allow or reject the change at its sole discretion. If the change is rejected, H-GAC will remove the item from its program and there will be no penalty to Contractor. However, H-GAC may at its sole discretion elect to make a contract award to the next lowest Respondent for the item, or take any other action deemed by H-GAC, at its sole discretion, to be in the best interests of its Customers.
- C. If a manufacturer makes any change in a contracted item which does not affect the contract price, Contractor shall advise H-GAC of the details. If the 'new' item is equal to or better than the originally contracted item, the 'new' item shall be approved as a replacement. If the change is rejected H-GAC will remove the item from its program and there will be no penalty to Contractor. However, H-GAC may at its sole discretion elect to make a contract award to the next lowest Respondent for the item or may take any other action deemed by H-GAC at its sole discretion, to be in the best interests of its Customers.
- D. In the case of specifically identified catalogs or price sheets which have been contracted as base bid items or as published options, routine published changes to products and pricing will be automatically incorporated into the contract. However, Contractor must still provide thirty (30) calendar days written notice and an explanation of the changes to products and pricing. H-GAC will respond with written approval.

## **ARTICLE 23: CONTRACT PRICE ADJUSTMENTS**

### **Price Decreases**

If Contractor's Direct Cost decreases at any time during the full term of this award, Contractor must immediately pass the decrease on to H-GAC and lower its prices by the amount of the decrease in Direct Cost. (Direct Cost means Contractor's cost from the manufacturer of any item or if Contractor is the manufacturer, the cost of raw materials required to manufacture the item, plus costs of transportation from manufacturer to Contractor and Contractor to H-GAC. Contractor must notify H-GAC of price decreases in the same way as for price increases set out below. The price decrease shall become effective upon H-GAC's receipt of Contractor's notice. If Contractor routinely offers discounted contract pricing, H-GAC may request Contractor accept amended contract pricing equivalent to the routinely discounted pricing

### **Price Increases**

Contractors may request a price increase after twelve (12) months from the bid opening date of the bid received by H-GAC. The amount of any increase will not exceed actual documented increase in Contractor's Direct Cost and will not exceed 10% of the previous bid price. Considerations on the percentage limit will be given if the price increase is the result of increased tariff charges, or other economic factors.

### **Price Changes**

Any permanent increase or decrease in offered pricing for a base contract item or published option is considered a price change. Temporary increases in pricing by whatever name (e.g. 'surcharge', 'adjustment', 'equalization charge', 'compliance charge', 'recovery charge', etc.), are also considered to be price changes. For published catalogs and price sheets as part of an H-GAC contract, requests to amend the contract to reflect any new published catalog or price sheet must be submitted whenever the manufacturer publishes a new document. The request must include the new catalog or price sheet.

All Products shall, at time of sale, be equipped as required under any then current applicable local, state, and federal government requirements. If, during the course of any contract, changes are made to any government requirements which cause a manufacturer's costs of production to increase, Contractor may increase pricing to the extent of Contractor's actual cost increase. The increase must be substantiated with support documentation acceptable to H-GAC prior to taking effect. Modifications to a Product required to comply with such requirements which become effective after the date of any sale are the responsibility of the Customer.

### **Requesting Price Increase/Required Documentation**

Contractor must submit a written notification at least thirty (30) calendar days prior to the requested effective date of the change, setting the amount of the increase, along with an itemized list of any increased prices, showing the Contractor's current price, revised price, the actual dollar difference and the percentage of the price increase by line item. Price change requests must include H-GAC Forms D Offered Item Pricing and E Options Pricing, or the documentation used to submit pricing in the original Response and be supported with substantive documentation (e.g. manufacturer's price increase notices, copies of invoices from suppliers, etc.) clearly showing that Contractor's actual costs have increased per the applicable line item bid. The Producer Price Index (PPI) may be used as partial justification, subject to approval by H-GAC, but no price increase based solely on an increase in the PPI will be allowed. This documentation should be submitted in Excel format to facilitate analysis and updating of the website. The letter and documentation must be sent to the Bids and Specifications manager, William Burton, at [William.Burton@h-gac.com](mailto:William.Burton@h-gac.com)

### **Review/Approval of Requests**

If H-GAC approves the price increase, Contractor will be notified in writing; no price increase will be effective until Contractor receives this notice. If H-GAC does not approve Contractor's price increase, Contractor may terminate its performance upon sixty (60) days advance written notice to H-GAC, however Contractor must fulfill

any outstanding Purchase Orders. Termination of performance is Contractor's only remedy if H-GAC does not approve the price increase. H-GAC reserves the right to accept or reject any price change request.

#### **ARTICLE 24: DELIVERIES AND SHIPPING TERMS**

The Contractor agrees to make deliveries only upon receipt of authorized Customer Purchase Order acknowledged by H-GAC. Delivery made without such Purchase Order will be at Contractor's risk and will leave H-GAC the option of canceling any contract awarded to the Contractor. The Contractor must secure and deliver any item within five (5) working days, or as agreed to on any corresponding customer Purchase Order.

Shipping must be Freight On Board Destination to the delivery location designated on the Customer purchase order. The Contractor will retain title and control of all goods until delivery is completed and the Customer has accepted the delivery. All risk of transportation and all related charges are the responsibility of the Contractor. The Customer will notify the Contractor and H-GAC promptly of any damaged goods and will assist the Contractor in arranging for inspection. The Contractor must file all claims for visible or concealed damage. Unless otherwise stated in the Agreement, deliveries must consist only of new and unused merchandise.

#### **ARTICLE 25: RESTOCKING (EXCHANGES AND RETURNS)**

There will be no restocking charge to the Customer for return or exchange of any item purchased under the terms of any award. If the Customer wishes to return items purchased under an awarded contract, the Contractor agrees to exchange, these items for other items, with no additional charge incurred. Items must be returned to Contractor within thirty (30) days from date of delivery. If there is a difference in price in the items exchanged, the Contractor must notify H-GAC and invoice Customer for increase price or provide the Customer with a credit or refund for any decrease in price per Customer's preference. On items returned, a credit or cash refund will be issued by the Contractor to Customer. This return and exchange option will extend for thirty (30) days following the expiration of the term of the Contract. All items returned by the Customer must be unused and in the same merchantable condition as when received. Items that are special ordered may be returned only upon approval of the Contractor.

#### **ARTICLE 26: MANUALS**

Each product delivered under contract to any Customer must be delivered with at least one (1) copy of a safety and operating manual and any other technical or maintenance manual. The cost of the manual(s) must be included in the price for the Product offered.

#### **ARTICLE 27: OUT OF STOCK, PRODUCT RECALLS, AND DISCONTINUED PRODUCTS**

H-GAC does NOT purchase the products sold pursuant to a Solicitation or Agreement. Contractor is responsible for ensuring that notices and mailings, such as Out of Stock or Discontinued Notices, Safety Alerts, Safety Recall Notices, and customer surveys, are sent directly to the Customer with a copy sent to H-GAC. Customer will have the option of accepting any equivalent product or canceling the item from Customer's Purchase Order. Contractor is not authorized to make substitutions without prior approval.

#### **ARTICLE 28: WARRANTIES, SALES, AND SERVICE**

Warranties must be the manufacturer's standard and inclusive of any other warranty requirements stated in the Agreement; any warranties offered by a dealer will be in addition to the manufacturer's standard warranty and will not be a substitute for such. Pricing for any product must be inclusive of the standard warranty.

Contractor is responsible for the execution and effectiveness of all product warranty requests and any claims, Contractor agrees to respond directly to correct warranty claims and to ensure reconciliation of warranty claims that have been assigned to a third party.

#### **ARTICLE 29: TERMINATION PROCEDURES**

The Contractor acknowledges that this Agreement may be terminated for Convenience or Default.

H-GAC will not pay for any expenses incurred after the termination date of the contract.

**A. *Convenience***

H-GAC may terminate this Agreement at any time, in whole or in part, with or without cause, whenever H-GAC determines that for any reason such termination is in the best interest of H-GAC, by providing written notice by certified mail to the Contractor. Upon receipt of notice of termination, all services hereunder of the Contractor and its employees and subcontractors shall cease to the extent specified in the notice of termination.

The Contractor may cancel or terminate this Agreement upon submission of thirty (30) days written notice, presented to H-GAC via certified mail. The Contractor may not give notice of cancellation after it has received notice of default from H-GAC.

**B. *Default***

H-GAC may, by written notice of default to the Contractor, terminate the whole or any part of the Agreement, in any one of the following circumstances:

- (1) If the Contractor fails to perform the services herein specified within the time specified herein or any extension thereof; or
- (2) If the Contractor fails to perform any of the other provisions of this Agreement for any reason whatsoever, or so fails to make progress or otherwise violates the Agreements that completion of services herein specified within the Agreement term is significantly endangered, and in either of these two instances does not cure such failure within a period often (10) days (or such longer period of time as may be authorized by H-GAC in writing) after receiving written notice by certified mail of default from H-GAC.
- (3) In the event of such termination, Contractor will notify H-GAC of any outstanding Purchase Orders and H-GAC will consult with the End User and notify the Contractor to what extent the End User wishes the Contractor to complete the Purchase Order. If Contractor is unable to do so, Contractor may be subject to a claim for damages from H-GAC and/or the End User.

**ARTICLE 30: SEVERABILITY**

H-GAC and Contractor agree that should any provision of this Agreement be determined to be invalid or unenforceable, such determination shall not affect any other term of this Agreement, which shall continue in full force and effect.

**ARTICLE 31: FORCE MAJEURE**

To the extent that either party to this Agreement shall be wholly or partially prevented from the performance of any obligation or duty placed on such party by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident, order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of force majeure shall rest solely with H-GAC.

**ARTICLE 32: CONFLICT OF INTEREST**

No officer, member or employee of the Contractor or subcontractor, no member of the governing body of the Contractor, and no other public officials of the Contractor who exercise any functions or responsibilities in the review or Contractor approval of this Agreement, shall participate in any decision relating to this Agreement which affects his or her personal interest, or shall have any personal or pecuniary interest, direct or indirect, in this Agreement.

- A. Conflict of Interest Questionnaire:** Chapter 176 of the Texas Local Government Code requires contractors contracting or seeking to contract with H-GAC to file a conflict of interest questionnaire (CIQ)



if they have an employment or other business relationship with an H-GAC officer or an officer's close family member. The required questionnaire and instructions are located on the H-GAC website or at the Texas Ethics Commission website <https://www.ethics.state.tx.us/forms/CIQ.pdf>. H-GAC officers include its Board of Directors and Executive Director, who are listed on this website. Respondent must complete and file a CIQ with the Texas Ethics Commission if an employment or business relationship with H-GAC office or an officer's close family member as defined in the law exists.

- B. Certificate of Interested Parties Form – Form 1295:** As required by Section 2252.908 of the Texas Government Code. H-GAC will not enter a Contract with Contractor unless (i) the Contractor submits a disclosure of interested parties form to H-GAC at the time the Contractor submits the contract H-GAC, or (ii) the Contractor is exempt from such requirement. The required form and instructions are located at the Texas Ethics Commission website [https://www.ethics.state.tx.us/whatsnew/elf\\_info\\_form1295.htm](https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm). Respondents who are awarded a Contract must submit their Form 1295 with the signed Contract to H-GAC.

### **ARTICLE 33: FEDERAL COMPLIANCE**

Contractor agrees to comply with all federal statutes relating to nondiscrimination, labor standards, and environmental compliance. With regards to "Rights to Inventions Made Under a Contract or Agreement," If the Federal award meets the definition of "funding agreement" under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency. Contractor agrees to be wholly compliant with the provisions of 2 CFR 200, Appendix II. Additionally, for work to be performed under the Agreement or subcontract thereof, including procurement of materials or leases of equipment, Contractor shall notify each potential subcontractor or supplier of the Contractor's federal compliance obligations. These may include, but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§ 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) the Fair Labor Standards Act of 1938 (29 USC 676 et. seq.), (d) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990; (e) the Age Discrimination in Employment Act of 1967 (29 USC 621 et. seq.) and the Age Discrimination Act of 1974, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; (f) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (g) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to the nondiscrimination on the basis of alcohol abuse or alcoholism; (h) §§ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (i) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (j) any other nondiscrimination provisions in any specific statute(s) applicable to any Federal funding for this Agreement; (k) the requirements of any other nondiscrimination statute(s) which may apply to this Agreement; (l) applicable provisions of the Clean Air Act (42 U.S.C. §7401 et seq.), the Federal Water Pollution Control Act, as amended (33 U.S.C. §1251 et seq.), Section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and the Environmental Protection Agency regulations at 40 CFR Part 15; (m) applicable provisions of the Davis- Bacon Act (40 U.S.C. 276a - 276a-7), the Copeland Act (40 U.S.C. 276c), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-332), as set forth in Department of Labor Regulations at 20 CFR 5.5a; (n) the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

### **ARTICLE 34: CRIMINAL PROVISIONS AND SANCTIONS**

The Contractor agrees to perform the Agreement in conformance with safeguards against fraud and abuse as set forth by the H-GAC, the State of Texas, and the acts and regulations of any related state or federal agency. The Contractor agrees to promptly notify H-GAC of any actual or suspected fraud, abuse, or other criminal activity through the filing of a written report within twenty-four (24) hours of knowledge thereof. Contractor shall notify H-GAC of any accident or incident requiring medical attention arising from its activities under this Agreement within twenty-four (24) hours of such occurrence. Theft or willful damage to property on loan to the Contractor from H-GAC, if any, shall be reported to local law enforcement agencies and H-GAC within two (2) hours of discovery of any such act.

The Contractor further agrees to cooperate fully with H-GAC, local law enforcement agencies, the State of Texas, the Federal Bureau of Investigation and any other duly authorized investigative unit, in carrying out a full investigation of all such incidents.

The Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against the Contractor pertaining to this Agreement or which would adversely affect the Contractor's ability to perform services under this Agreement.

#### **ARTICLE 35: INDEMNIFICATION AND RECOVERY**

H-GAC's liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will H-GAC be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless H-GAC, its board members, officers, agents, officials, employees and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgements, and liens arising as a result of Contractor's negligent act or omission under this Agreement. Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against Contractor relating to this Agreement.

#### **ARTICLE 36: LIMITATION OF CONTRACTOR'S LIABILITY**

Except as specified in any separate writing between the Contractor and an END USER, Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify H-GAC, is limited to the price of the particular products/services sold hereunder, and Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will Contractor be liable for any loss of use, loss of time, inconvenience, commercial loss, loss of profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor understands and agrees that it shall be liable to repay and shall repay upon demand to END USER any amounts determined by H-GAC, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Agreement.

#### **ARTICLE 37: TITLES NOT RESTRICTIVE**

The titles assigned to the various Articles of this Agreement are for convenience only. Titles shall not be considered restrictive of the subject matter of any Article, or part of this Agreement.

#### **ARTICLE 38: JOINT WORK PRODUCT**

This Agreement is the joint work product of H-GAC and the Contractor. This Agreement has been negotiated by H-GAC and the Contractor and their respective counsel and shall be fairly interpreted in accordance with its terms and, in the event of any ambiguities, no inferences shall be drawn against any party.

#### **ARTICLE 39: PROCUREMENT OF RECOVERED MATERIAL**

H-GAC and the Respondent must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include: (1) procuring only items

designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; (2) procuring solid waste management services in a manner that maximizes energy and resource recovery; and (3) establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines. Pursuant to the Federal Rule above, as required by the Resource Conservation and Recovery Act of 1976 (42 U.S.C. § 6962(c)(3)(A)(i)), Respondent certifies that the percentage of recovered materials content for EPA-designated items to be delivered or used in the performance of the Contract will be at least the amount required by the applicable contract specifications or other contractual requirements.

#### **ARTICLE 40: COPELAND “ANTI-KICKBACK” ACT**

Contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into the contract. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as appropriate agency instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses. A breach of the contract clauses above may be grounds for termination of the Contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

#### **ARTICLE 41: DISCRIMINATION**

Respondent and any potential subcontractors shall comply with all Federal statutes relating to nondiscrimination. These include, but are not limited to:

- a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352), which prohibits discrimination on the basis of race, color, or national origin;
- b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex;
- c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps;
- d) The Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101- 6107), which prohibits discrimination on the basis of age;
- e) The Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse;
- f) The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism;
- g) Sections 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records;
- h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental, or financing of housing;
- i) Any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and
- j) The requirements of any other nondiscrimination statute(s) that may apply to the application.

#### **ARTICLE 42: DRUG FREE WORKPLACE**

Contractor must provide a drug-free workplace in accordance with the Drug-Free Workplace Act, as applicable. For the purposes of this Section, “drug-free” means a worksite at which employees are prohibited from engaging in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance. H-GAC may request a copy of this policy.

**ARTICLE 43: APPLICABILITY TO SUBCONTRACTORS**

Respondent agrees that all contracts it awards pursuant to the contract awarded as a result of this Agreement will be bound by the foregoing terms and conditions.

**ARTICLE 44: WARRANTY AND COPYRIGHT**

Submissions must include all warranty information, including items covered, items excluded, duration, and renewability. Submissions must include proof of licensing if using third party code for programming.

**ARTICLE 45: DATA HANDLING AND SECURITY**

It will always be the responsibility of the selected Contractor to manage data transfer and to secure all data appropriately during the project to prevent unauthorized access to all data, products, and deliverables.

**ARTICLE 46: DISPUTES**

All disputes concerning questions of fact or of law arising under this Agreement, which are not addressed within the Whole Agreement as defined pursuant to Article 4 hereof, shall be decided by the Executive Director of H-GAC or his designee, who shall reduce his decision to writing and provide notice thereof to the Contractor. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, the Contractor requests a rehearing from the Executive Director of H-GAC. In connection with any rehearing under this Article, the Contractor shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. The Contractor may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Agreement and in accordance with H-GAC's final decision.

**ARTICLE 47: CHOICE OF LAW: VENUE**

This Agreement shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with the Agreement shall lie exclusively in Harris County, Texas. Disputes between END USER and Contractor are to be resolved in accordance with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

**ARTICLE 48: ORDER OF PRIORITY**

In the case of any conflict between or within this Agreement, the following order of priority shall be utilized: 1) General Provisions, 2) Special Provisions, 3) Scope of Work, and, 4) Other Attachments.

**ARTICLE 49: WHOLE AGREEMENT**

The General Provisions, Special Provisions, and Attachments, as provided herein, constitute the complete Agreement ("Agreement") between the parties hereto, and supersede any and all oral and written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Agreement cannot be modified without written consent of the parties.

**SIGNATURES:**

H-GAC and the Contractor have read, agreed, and executed the whole Agreement as of the date first written above, as accepted by:

**Consolidated Traffic Controls, Inc.**

Signature  DocuSigned by:  
4CFC215BBD244A0...

Name Bryan Jones

Title Senior Vice President

Date 5/25/2021

**H-GAC**

Signature  DocuSigned by:  
82EC270D5D61423...

Name Chuck Wemple

Title Executive Director

Date 5/27/2021

# H-GAC

Houston-Galveston Area Council

P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement - Contract - Consolidated Traffic Controls, Inc. - Public Services - 6676

## SPECIAL PROVISIONS

Incorporated by attachment, as part of the whole agreement, H-GAC and the Contractor do, hereby agree to the Special Provisions as follows:

### **ARTICLE 1: BIDS/PROPOSALS INCORPORATED**

In addition to the whole Agreement, the following documents listed in order of priority are incorporated into the Agreement by reference: Bid/Proposal Specifications and Contractor's Response to the Bid/Proposal.

### **ARTICLE 2: END USER AGREEMENTS ("EUA")**

H-GAC acknowledges that the END USER may choose to enter into an End User Agreement ("EUA") with the Contractor through this Agreement, and that the term of the EUA may exceed the term of the current H-GAC Agreement. H-GAC's acknowledgement is not an endorsement or approval of the End User Agreement's terms and conditions. Contractor agrees not to offer, agree to or accept from the END USER, any terms or conditions that conflict with those in Contractor's Agreement with H-GAC. Contractor affirms that termination of its Agreement with H-GAC for any reason shall not result in the termination of any underlying EUA, which shall in each instance, continue pursuant to the EUA's stated terms and duration. Pursuant to the terms of this Agreement, termination of this Agreement will disallow the Contractor from entering into any new EUA with END USERS. Applicable H-GAC order processing charges will be due and payable to H-GAC on any EUAs, surviving termination of this Agreement between H-GAC and Contractor.

### **ARTICLE 3: MOST FAVORED CUSTOMER CLAUSE**

Contractor shall provide its most favorable pricing and terms to H-GAC. If at any time during this Agreement, Contractor develops a regularly followed standard procedure of entering into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to H-GAC on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to H-GAC, Contractor shall notify H-GAC within ten (10) business days thereafter, and this Agreement shall be deemed to be automatically retroactively amended, to the effective date of Contractor's most favorable past agreement with another entity. Contractor shall provide the same prices, warranties, benefits, or terms to H-GAC and its END USER as provided in its most favorable past agreement. H-GAC shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If Contractor claims that a more favorable price, warranty, benefit, or term that was charged or offered to another entity during the term of this Agreement, does not constitute more favorable treatment, than Contractor shall, within ten (10) business days, notify H-GAC in writing, setting forth the detailed reasons Contractor believes the aforesaid offer is not in fact most favored treatment. H-GAC, after due consideration of Contractor's written explanation, may decline to accept such explanation and thereupon this Agreement between H-GAC and Contractor shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices, warranties, benefits, or terms to H-GAC and the END USER.

**EXCEPTION:** This clause shall not be applicable to prices and price adjustments offered by a bidder, proposer or contractor, which are not within bidder's/proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.

**ARTICLE 4: PARTY LIABILITY**

Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to the price of the particular products/services sold hereunder. Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. Contractor accepts liability to repay, and shall repay upon demand to END USER, any amounts determined by H-GAC, its independent auditors, or any state or federal agency, to have been paid in violation of the terms of this Agreement.

**ARTICLE 5: GOVERNING LAW & VENUE**

Contractor and H-GAC agree that Contractor will make every reasonable effort to resolve disputes with the END USER in accord with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

**ARTICLE 6: SALES AND ORDER PROCESSING CHARGE**

Contractor shall sell its products to END USERS based on the pricing and terms of this Agreement. H-GAC will invoice Contractor for the applicable order processing charge when H-GAC receives notification of an END USER order. Contractor shall remit to H-GAC the full amount of the applicable order processing charge, after delivery of any product or service and subsequent END USER acceptance. Payment of the Order Processing Charge shall be remitted from Contractor to H-GAC, within thirty (30) calendar days or ten (10) business days after receipt of an END USER's payment, whichever comes first, notwithstanding Contractor's receipt of invoice. For sales made by Contractor based on this Agreement, including sales to entities without Interlocal Agreements, Contractor shall pay the applicable order processing charges to H-GAC. Further, Contractor agrees to encourage entities who are not members of H-GAC's Cooperative Purchasing Program to execute an H-GAC Interlocal Agreement. H-GAC reserves the right to take appropriate actions including, but not limited to, Agreement termination if Contractor fails to promptly remit the appropriate order processing charge to H-GAC. In no event shall H-GAC have any liability to Contractor for any goods or services an END USER procures from Contractor. At all times, Contractor shall remain liable to pay to H-GAC any order processing charges on any portion of the Agreement actually performed, and for which compensation was received by Contractor.

**ARTICLE 7: LIQUIDATED DAMAGES**

Contractor and H-GAC agree that Contractor shall cooperate with the END USER at the time an END USER purchase order is placed, to determine terms for any liquidated damages.

**ARTICLE 8: INSURANCE**

Unless otherwise stipulated in Section B of the Bid/Proposal Specifications, Contractor must have the following insurance and coverage minimums:

- a. General liability insurance with a Single Occurrence limit of at least \$1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit.
- b. Product liability insurance with a Single Occurrence limit of at least \$1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B of the Bid/Proposal Specifications.
- c. Property Damage or Destruction insurance is required for coverage of End User owned equipment while in Contractor's possession, custody or control. The minimum Single Occurrence limit is \$500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as part of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to H-GAC.

- d. Insurance coverage shall be in effect for the length of any contract made pursuant to the Bid/Proposal, and for any extensions thereof, plus the number of days/months required to deliver any outstanding order after the close of the contract period.
- e. Original Insurance Certificates must be furnished to H-GAC on request, showing Contractor as the insured and showing coverage and limits for the insurances listed above.
- f. If any Product(s) or Service(s) will be provided by parties other than Contractor, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by H-GAC, a separate insurance certificate must be submitted for each such party.
- g. H-GAC reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

#### **ARTICLE 9: PERFORMANCE AND PAYMENT BONDS FOR INDIVIDUAL ORDERS**

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB); therefore, Contractor shall offer pricing that reflects this cost savings. Contractor shall remain prepared to offer a PPB to cover any order if so requested by the END USER. Contractor shall quote a price to END USER for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of END USER's purchase order.

#### **ARTICLE 10: ORDER PROCESSING CHARGE**

H-GAC will apply an Order Processing Charge for each sale done through the H-GAC contract, with the exception of orders for motor vehicles. Any pricing submitted must include this charge amount per the most current H-GAC schedule. For motor vehicle orders, the Processing Charge is paid by the Customer.

#### **ARTICLE 11: CHANGE OF STATUS**

Contractor shall immediately notify H-GAC, in writing, of ANY change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name. Contractor shall offer written guidance to advise H-GAC if this Agreement shall be affected in any way by such change. H-GAC shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Agreement.

#### **ARTICLE 11: REQUIREMENTS TO APPLICABLE PHYSICAL GOODS**

In the case of physical goods (e.g. equipment, material, supplies, as opposed to services), all Products offered must comply with any applicable provisions of the Texas Business and Commerce Code, Title 1, Chapter 2 and with at least the following:

- a. Be new, unused, and not refurbished.
- b. Not be a prototype as the general design, operation and performance. This requirement is NOT meant to preclude the Contractor from offering new models or configurations which incorporate improvements in a current design or add functionality, but in which new model or configuration may be new to the marketplace.
- c. Include all accessories which may or may not be specifically mentioned in the Agreement, but which are normally furnished or necessary to make the Product ready for its intended use upon delivery. Such accessories shall be assembled, installed and adjusted to allow continuous operation of Product at time of delivery.
- d. Have assemblies, sub-assemblies and component parts that are standard and interchangeable throughout the entire quantity of a Product as may be purchased simultaneously by any Customer.
- e. Be designed and constructed using current industry accepted engineering and safety practices, and materials.
- f. Be available for inspection at any time prior to or after procurement.



**ARTICLE 12: TEXAS MOTOR VEHICLE BOARD LICENSING**

All that deal in motor vehicles shall maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Agreement term, any required Contractor license is denied, revoked, or not renewed, Contractor shall be in default of this Agreement, unless the Texas Motor Vehicle Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to H-GAC upon request.

**ARTICLE 13: INSPECTION/TESTING**

All Products sold pursuant to this Agreement will be subject to inspection/testing by or at the direction of H-GAC and/or the ordering Customer, either at the delivery destination or the place of manufacture. In the event a Product fails to meet or exceed all requirements of this Agreement, and unless otherwise agreed in advance, the cost of any inspection and/or testing, will be the responsibility of the Contractor.

**ARTICLE 14: ADDITIONAL REPORTING REQUIREMENTS**

Contractor agrees to submit written quarterly reports to H-GAC detailing all transactions during the previous three (3) month period. Reports must include, but are not limited, to the following information:

- a. Customer Name
- b. Product/Service purchased, including Product Code if applicable
- c. Customer Purchase Order Number
- d. Purchase Order Date
- e. Product/Service dollar amount
- f. HGACBuy Order Processing Charge amount

**ARTICLE 15: BACKGROUND CHECKS**

Cooperative customers may request background checks on any awarded contractor's employees who will have direct contact with students, or for any other reason they so choose, any may require contractor to pay the cost of obtaining any background information requested by the Customer.

**ARTICLE 16: PROHIBITION ON CONTRACTS WITH COMPANIES BOYCOTTING ISRAEL CERTIFICATION**

As required by Chapter 2271 of the Texas Local Government Code the Contractor must verify that it 1) does not boycott Israel; and 2) will not boycott Israel during the term of the Contract. Pursuant to Section 2271.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

**ARTICLE 17: NO EXCLUDED NATION OR TERRORIST ORGANIZATION CERTIFICATION**

As required by Chapter 2252 of the Texas Government Code the Contractor must certify that it is not a company engaged in active business operations with Sudan, Iran, or a foreign terrorist organization – specifically, any company identified on a list prepared and maintained by the Texas Comptroller under Texas Government Code §§806.051, 807.051, or 2252.153. (A company that the U.S. Government affirmatively declares to be excluded from its federal sanctions regime relating to Sudan, Iran, or any federal sanctions regime relating to a foreign terrorist organization is not subject to the contract prohibition.)

**ARTICLE 18: PROHIBITION ON CONTRACTING WITH ENTITIES USING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE EQUIPMENT (Effective Aug. 13, 2020 and as amended October 26, 2020)**

Pursuant to 2 CFR 200.216, Contractor shall not offer equipment, services, or system that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. “Covered telecommunications equipment or services means 1) telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities); 2) for the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities); 3) telecommunications or video surveillance services provided by such entities or using such equipment; or 4) telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Contractor must comply with requirements for certifications. The provision at 48 C.F.R Section 52.204-26 requires that Contractors review SAM prior to completing their required representations. This rule applies to all acquisitions, including acquisitions at or below the simplified acquisition threshold and to acquisitions of commercial items, including commercially available off the-shelf items.

**ARTICLE 19: BUY AMERICA ACT (National School Lunch Program and Breakfast Program)**

With respect to products purchased by Customers for use in the National School Lunch Program and/or National School Breakfast Program, Contractor shall comply with all federal procurement laws and regulations with respect to such programs, including the Buy American provisions set forth in 7 C.F.R. Part 210.21(d), to the extent applicable. Contractor agrees to provide all certifications required by Customer regarding such programs.

In the event Contractor or Contractor’s supplier(s) are unable or unwilling to certify compliance with the Buy American Provision, or the applicability of an exception to the Buy American provision, H-GAC Customers may decide not to purchase from Contractor. Additionally, H-GAC Customers may require country of origin on all products and invoices submitted for payment by Contractor, and Contractor agrees to comply with any such requirement.

**ARTICLE 20: BUY AMERICA REQUIREMENT (Applies only to Federally Funded Highway and Transit Projects)**

With respect to products purchased by Customer for use in federally funded highway projects, Contractor shall comply with all federal procurement laws and regulations with respect to such projects, including the Buy American provisions set forth in 23 U.S.C. Section 313, 23 C.F.R. Section 635.410, as amended, and the Steel and Iron Preference provisions of Texas Transportation Code Section 223.045, to the extent applicable. Contractor agrees to provide all certifications required by Customer regarding such programs. With respect to products purchased by Customer for use in federally funded transit projects, Contractor shall comply with all federal procurement laws and regulations with respect to such projects, including the Buy American provisions set forth in 49 U.S.C. Section 5323(j)(1), 49 C.F.R. Sections 661.6 or 661.12, to the extent applicable. Contractor agrees to provide all certifications required by Customer regarding such programs.

**ARTICLE 21: DOMESTIC PREFERENCE**

In accordance with 2 CFR 200.322, as appropriate and to the extent consistent with law, a Customer using federal grant award funds should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The Customer must include this requirement in all subawards including all contracts and purchase orders for work or products under the federal grant award. If Contractor intends to qualify for Purchase Orders using federal grant money, the it shall work with the Customer to provide all required certifications and other documentation needed to show compliance.

## **ARTICLE 22: TITLE VI REQUIREMENTS**

H-GAC in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any disadvantaged business enterprises will be afforded full and fair opportunity to submit in response to this Agreement and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

## **ARTICLE 23: EQUAL EMPLOYMENT OPPORTUNITY**

Except as otherwise provided under 41 CFR Part 60, all Contracts and Customer Purchase Orders that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., pg.339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41CFR Part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

The equal opportunity clause provided under 41 CFR 60-1.4(b) is hereby incorporated by reference. Contractor agrees that such provision applies to any contract that meets the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 and agrees that it will comply with such provision.

## **ARTICLE 24: CLEAN AIR AND WATER POLLUTION CONTROL ACT**

Customer Purchase Orders using federal funds must contain a provision that requires the Contractor to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

Pursuant to the Federal Rule above, Contractor certifies that it is in compliance with all applicable provisions of the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387) and will remain in compliance during the term of the Contract.

## **ARTICLE 25: PREVAILING WAGE**

Contractor and any potential subcontractors have a duty to and shall pay the prevailing wage rate under the Davis-Bacon Act, 40 U.S.C. 276a – 276a-5, as amended, and the regulations adopted thereunder contained in 29 C.F.R. pt. 1 and 5.

## **ARTICLE 26: CONTRACT WORK HOURS AND SAFETY STANDARDS**

As per the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708), where applicable, all Customer Purchase Orders in excess of ,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of

every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

#### **ARTICLE 27: PROFIT AS A SEPARATE ELEMENT OF PRICE**

For purchases using federal funds in excess of ,000, a Customer may be required to negotiate profit as a separate element of the price. See, 2 CFR 200.323(b). Contractor agrees to provide information and negotiate with the Customer regarding profit as a separate element of the price for the purchase. Contractor also agrees that the total price, including profit, charged by Contractor to Customer will not exceed the awarded pricing, including any applicable discount, under any awarded contract.

#### **ARTICLE 28: BYRD ANTI-LOBBYING AMENDMENT**

Byrd Anti-Lobbying Amendment (31U.S.C. 1352) – Contractors that apply or bid for an award exceeding ,000 must file the required anti-lobbying certification. Each tier must certify to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the Customer. As applicable, Contractor agrees to file all certifications and disclosures required by, and otherwise comply with, the Byrd Anti-Lobbying Amendment (31 USC 1352). Contractor certifies that it is currently in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352) and will continue to be in compliance throughout the term of the Contract and further certifies that:

1. No Federal appropriated funds have been paid or will be paid by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal Grant, the making of a Federal Loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing, or attempting to influence, an officer or employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement, Contractor shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying”, in accordance with its instructions.
3. Contractor shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subcontractors shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certificate is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than ,000 and not more than ,000 for each such failure.

**ARTICLE 29: COMPLIANCE WITH EPA REGULATIONS APPLICABLE TO GRANTS, SUBGRANTS, COOPERATIVE AGREEMENTS, AND CONTRACTS**

Contractor certifies compliance with all applicable standards, orders, regulations, and/or requirements issued pursuant to the Clean Air Act of 1970, as amended (42 U.S.C. 1857(h)), Section 508 of the Clean Water Act, as amended (13 U.S.C. 1368), Executive Order 117389 and Environmental Protection Agency Regulation, 40 CFR Part 15.

**ARTICLE 30: COMPLIANCE WITH ENERGY POLICY AND CONSERVATION ACT**

Contractor certifies that Contractor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

**Attachment A**  
**Consolidated Traffic Controls, Inc.**  
**Traffic Control, Enforcement and Signal Preemption Equipment**  
**Contract No.: PE05-21**

H-GAC Product Code	Item Description (Offeror may not change any description or add items)	Offered Price
	<b>RTC School Flasher Systems</b>	
	<b>Flash Cube for School or 24 Hour Flashers</b>	
	<b>Must Add Solar Panels, Batteries, Poles, Anchors, Signs, Time Switches and Communication if Applicable</b>	
	<b>If you want a yellow Flash Cube enter Y</b>	
	<b>If you want a yellow Signal Face enter Y</b>	
	<b>If you want a yellow Visor enter Y</b>	
	<b>If you want a Red LED Enter Y</b>	
	<b>If you want a 24 Hour Flasher Enter Y</b>	
PNS10-FlashCube	Black Flash Cube Includes Cabinet, LED, Signal Face, Visor and Wiring and Solar Mounting Receiver	\$ 1,253.00
PNS10-FlashCube-AC	AC Black Flash Cube Includes Cabinet, LED, Signal Face, Visor and Wiring and Solar Mounting Receiver	\$ 1,113.00
PNS10-Cube2	Add a Second LED, Signal, Visor and Mount to FlashCube	\$ 378.00
PNS10-Cube3	Add a Third Confirmation LED, Signal, Visor and Mount	\$ 378.00
	<b>FlashCube Mounting Options</b>	
PNS10-503396	Pole Mount 4.5" OD Pole	\$ 160.00
PNS10-503396-3	Pole Mount 2 7/8 to 3.00" OD Pole	\$ 163.00
PNS10-503398	Pole Mount 2 3/8" OD Pole	\$ 156.00
PNS10-503397	Pole Mount 2"x 2" Unistrut Pole	\$ 125.00
PNS10-503396W	Wooden Pole 4x4 or 6x6	\$ 125.00
	<b>FlashCube Solar Panel Options</b>	
PNS10-502400-20	20 Watt Solar Panel Assy incl Mount and Wiring	\$ 345.00
PNS10-502400-30	30 Watt Solar Panel Assy incl Mount and Wiring	\$ 390.00
PNS10-502400-40	40 Watt Solar Panel Assy incl Mount and Wiring	\$ 449.00
PNS10-502400-50	50 Watt Solar Panel Assy incl Mount and Wiring	\$ 481.00
PNS10-502400-65	65 Watt Solar Panel Assy incl Mount and Wiring	\$ 545.00
	<b>FlashCube Replacement LED's</b>	
PNS10-506444MTSC	Amber Replacement Master LED W/ Regulator & Dimming for a School Flasher or 24 Hour Flasher	\$ 311.00
PNS10-506445MTSC	Red Replacement Master LED W/ Regulator & Dimming for a 24 Hour Flasher	\$ 311.00
PNS10-506444S	Amber Second LED	\$ 126.00
PNS10-506445S	Red Second LED	\$ 126.00
	<b>School Zone Flashers</b>	
	<b>Select Cabinet, Solar Panel, Battery, IL LEDS, Signals, Signs, Poles, Time Switches and Comm. Equip. below)</b>	
	<b>If this is a 24 Hour Flasher enter Y</b>	
	<b>Standard Cabinets</b>	
PNS10-503333K	One Battery Cabinet Including Panel No. 2 lock, Regulator and 4.5" Ubolt Mount 18W"x17H"x14"D	\$ 807.00
PNS10-503333HBK	One Battery Cabinet Including Panel No. 2 lock, Regulator and Hinged Mounting Bracket (All Poles Sizes) 18W"x17H"x14"D	\$ 807.00
PNS10-503333FBK	One Battery Cabinet Including Panel No. 2 lock, Regulator and Flared Bracket Mount 18W"x17H"x14"D	\$ 807.00

## HGACBuy

PNS10-503568K	Two Battery Cabinet Including Panel No. 2 lock, Regulator and 4.5" Ubolt Mount 17 1/4"x26"x17"	\$ 1,070.00
PNS10-503576K	Two Battery Cabinet Including Panel No. 2 lock, Regulator and Flare Mounting Bracket 17 1/4"x26"x17"	\$ 1,070.00
PNS10-502565K	AC Cabinet Including Panel, NEMA Flasher, #2 Lock 4.5" Flare Mount 14"x16"x10"	\$ 636.00
PNS10-502564K	AC Cabinet Including Panel, NEMA Flasher, #2 Lock 4.5" Ubolt Mount 14"x16"x10"	\$ 636.00
PNS10-502564HBK	AC Cabinet Including Panel, NEMA Flasher, #2 Lock 4.5" Hinge Bracket Mount 14"x16"x10"	\$ 636.00
PNS10-502565TWCK	AC Cabinet Including Panel, CUBE Flasher, #2 Lock 4.5" Flare Mount 14"x16"x10"	\$ 714.00
PNS10-SUBGUARD DC	Substitute 502598SWG DC Guardian Panel for Regular Swingout Panel, Cables and Harnesses	\$ 285.00
PNS10-SUBGUARD AC	Substitute 502505G AC Guardian Panel for Regular Swingout Panel, ables and Harnesses	\$ 488.00
PNS10-SUBGUARD LCBG	Substitute 502598LCB DC Guardian Panel for 2 Battery Cabinet Swingout Panel, Cables and Harnesses	\$ 285.00
	<b>Tacoma Washington Schooll Flasher Kits</b>	
PNS10-TACOMAR2ACFB	AC Cabinet Including R2 Radio, Panel, CUBE Flasher, #2 Lock 4.5" Flare Mount 14"x16"x10"	\$ 2,018.00
PNS10-TACOMAR2AC	AC Cabinet Including R2 Radio, Panel, CUBE Flasher, #2 Lock 4.5" Ubolt Mount 14"x16"x10"	\$ 2,018.00
PNS10-TACOMAM2MACFB	AC Cabinet Including M2M Modem, Panel, CUBE Flasher, #2 Lock 4.5" Flare Mount 14"x16"x10"	\$ 2,444.00
PNS10-TACOMAM2MAC	AC Cabinet Including M2M Modem, Panel, CUBE Flasher, #2 Lock 4.5" Ubolt Mount 14"x16"x10"	\$ 2,444.00
PNS10-TACOMAM2MDCFB	DC Cabinet Including M2M Modem, Panel, CUBE Flasher, #2 Lock 4.5" Flare Mount 14"x16"x10"	\$ 4,117.00
PNS10-TACOMAM2MDC	DC Cabinet Including M2M Modem, Panel, CUBE Flasher, #2 Lock 4.5" Ubolt Mount 14"x16"x10"	\$ 4,109.00
	<b>TXDOT Approved Cabinets</b>	
	<b>Remember to add TXDOT AP22 time switch if you select TXDOT Cabinet Panel</b>	
PNS10-TXDCSZ	TXDOT One Battery Cabinet Including Panel No. 2 lock, Regulator and Flared Bracket Mount	\$ 972.00
PNS10-TXDC2BATT	TXDOT Two Battery Cabinet Including Panel No. 2 lock, Regulator and Flared Bracket Mount	\$ 1,312.00
PNS10-RTCAC	TXDOT AC Cabinet Including Panel, NEMA Flasher, #2 Lock Flared Bracket Mount	\$ 638.00
0	Enter \$ amt. for Custom Cabinet If Applicable	
	<b>If you want a BLACK Cabinet &amp; Mount Enter Y and enter quantity below in Powder Coating</b>	
	<b>If you want a BLACK Pole Assembly Enter Y and enter quantity below in Powder Coating</b>	
PNS10-Cab Black	Powder Coat Cabinet & Mounting Bracket Black	\$ 90.00
	<b>Special Colors are available but take longer. Call for prices.</b>	
	<b>Regular Solar Panels</b>	
	<b>Includes 4.5" OD Pole Mount Hardware</b>	
PNS10-SP20	20 Watt Solar Panel Assy incl Side Pole Mount and Wiring	\$ 308.00
PNS10-SP30	30 Watt Solar Panel Assy incl Side Pole Mount and Wiring	\$ 397.00
PNS10-SP40	40 Watt Solar Panel Assy incl Side Pole Mount and Wiring	\$ 406.00
PNS10-SP50	50 Watt Solar Panel Assy incl Side Pole Mount and Wiring	\$ 438.00
PNS10-SP65	65 Watt Solar Panel Assy incl Top of Pole Mount and Wiring	\$ 524.00
PNS10-SP85	85 Watt Solar Panel Assy incl Top of Pole Mount and Wiring	\$ 642.00
PNS10-SP100	100 Watt Solar Panel Assy incl Top of Pole Mount and Wiring	\$ 710.00
PNS10-SP130	130 Watt Solar Panel Assy incl Top of Pole Mount and Wiring	\$ 801.00
PNS10-SP150	150 Watt Solar Panel Assy incl Top of Pole Mount and Wiring	\$ 1,044.00
	<b>If you want to mount Panel to the shaft or Mast Arm of a Signal Pole enter Y</b>	
PNS10-503371IRS2	Side of Pole mount cost for 85 - 150 W Panel	\$ 360.00
PNS10-503371IR	Iron Ridge 110 MPH Wind rated Mount	\$ 315.00
	<b>Batteries</b>	
PNS10-506484-18	22 (was 18) Amp Hour Gel Cell Battery	\$ 138.00
PNS10-500645-36	36 Amp Hour Gel Cell Battery Interstate	\$ 182.00
PNS10-500645-53	53 Amp Hour Gel Cell Battery Interstate	\$ 264.00
PNS10-500645-104	104 Amp Hour Gel Cell Battery Interstate	\$ 416.00
PNS10-500645AGMI	110 Amp Hour AGM Battery Interstate	\$ 416.00
	<b>Pole Assemblies (includes Base, Collar, Anchor Bolts and Grounding Lug)</b>	
PNS10-POLE15SPALASSY	15' Spun Aluminum Pole, Base and Collar and Anchor Bolts	\$ 571.00
PNS10-POLE15SSASSY	15' Stainless Steel Pole, Base and Collar and Anchor Bolts	\$ 601.00
PNS10-POLE15BLKASSY	15' Spun Aluminum Pole, Base and Collar and Anchor Bolts Powdercoated Black	\$ 638.00

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PNS10-Pole12	12' Spun Aluminum Pole, Base and Collar Anchor Bolts	\$ 517.00
PNS10-POLE20SPALASSY	20' Spun Aluminum Pole, Base and Collar and Anchor Bolts	\$ 668.00
PNS10-	<b>If you want to use a Screw-In Anchor instead of Anchor Bolts select an Anchor</b>	\$ 35.00
PNS10-501312SA4	4" Anchor Pelco PB-5364	\$ 298.00
PNS10-501312SA8	8" Anchor Pelco PB-5375	\$ 516.00
	<b>12" Signals (Includes Visor, closure kit and Ubolt mounting hdwre)</b>	
PNS10-SIGPY	12" Signal Heads Poly Yellow (1, 2 or 3 per flasher)	\$ 144.00
PNS10-SIGPB	12" Signal Heads Poly Black (1,2 or 3 per flasher)	\$ 144.00
PNS10-SIGAY	12" Signal Heads Aluminum Yellow (1, 2 or 3 per Flasher)	\$ 152.00
PNS10-SIGAB	12" Signal Heads Aluminum Black (1, 2 or 3 per flasher)	\$ 152.00
	<b>If you want to use a Side by Side Mounting instead of Top and Bottom enter Y</b>	
	<b>12" LED's</b>	
PNS10-502463	12" Amber DC 5 Watt LED IL (RTC Standard) (1, 2 or 3 per flasher)	\$ 68.00
PNS10-PNS-82-TSL12YLX	12" Amber AC LED IL (1, 2 or 3 per flasher)	\$ 68.00
PNS10-502463-8W-Red	12" Red DC 8 Watt LED IL	\$ 85.00
	<b>8" Signals &amp; LEDs, Includes Visor, closure Kit and Ubolt Mount</b>	
PNS10-SIG8PY	8" Signal Heads Poly Yellow	\$ 116.00
PNS10-SIG8AY	8" Signal Heads Aluminum Yellow	\$ 138.00
PNS10-502463-8L	8" Amber 5 Watt DC LED IL	\$ 77.00
PNS10-506493	8" Amber AC LED	\$ 77.00
	<b>Static Signs (Includes Ubolt Mounting Hdwre, Banding on request)</b>	
PNS10-S1S5-1-MPH?	S5-1 Speed Limit Sign High Vis Florescent Green (24"x48")	\$ 183.00
PNS10-501510	S5-1 Speed Limit Sign Engineer Grade Std Yellow (24"x48")	\$ 183.00
PNS10-501511VDOT	S5-1 Speed Limit Sign High Vis Florescent Green (30"x60")	\$ 283.00
	<b>What Speed Limit do you want on the sign?</b>	<b>MPH?</b>
	<b>If You prefer Specific Times instead of While Flashing, enter a Y and the times needed below</b>	
Am	Pm	
7:45 - 8:45	3:15 - 4:00	
PNS10-S1S7-1TK	Cell Phone Prohibited Sign (24"x18")	\$ 86.00
PNS10-S1S1-1-LGK	S1-1 School Pedestrian Sign Left WITHOUT Lines (36"x36") HV Green	\$ 222.00
PNS10-S1S1-1-RGK	S1-1 School Pedestrian Sign Right WITHOUT Lines (36"x36") HV Green	\$ 222.00
PNS10-S1S2-1-LGK	S2-1 School Pedestrian Sign Left WITH Lines (36"x36") HV Green	\$ 222.00
PNS10-S1S2-1-RGK	S2-1 School Pedestrian Sign Right WITH Lines (36"x36") HV Green	\$ 222.00
PNS10-S1S4-3P-K	S4-3P "School" Sign HV Green (10"x24")	\$ 62.00
PNS10-S1S4-4PK	S4-4P "When Flashing" Sign HV Black/White (10"x24")	\$ 62.00
PNS10-S1W11-15K	W11-15 "Ped/Bicycle Crossing" Sign HV Green (30"x30")	\$ 147.00
PNS10-S1S5-2K	S5-2 "End School Zone" Sign Black/White (24"x30")	\$ 121.00
PNS10-S1W16-7P24-GK	W16-7P Arrow Pointing Left to Crossing Sign (24"x12") HV Green	\$ 79.00
PNS10-S1W16-7P24-RGK	W16-7P Arrow Pointing Right to Crossing Sign (24"x12") HV Green	\$ 79.00
PNS10-S1W16-7P-GK	W16-7P Arrow Pointing Left to Crossing Sign (30"x18") HV Green	\$ 117.00
PNS10-S1W16-7PR-GK	W16-7P Arrow Pointing Right to Crossing Sign (30"x18") HV Green	\$ 117.00
PNS10-S1W16-9P-GK	W16-9P "Ahead" Sign (30"x18") HV Green	\$ 116.00
PNS10-502309	Sign Brackets ONLY (Signs come with Brackets)	\$ 26.00
	<b>Edge Light School Zone Signs (Sign Only to add to existing battery cabinet installation)</b>	
PNS10-S1ELASSY	This line adds a Cabinet (Including Configurable Dimming and Configurable Flash Patterns ),20W Solar Panel, 22Ah Battery to ANY Edgelight© sign. Note: with one battery cabinet you can add an AP22 Time Switch, Guardian© and M2M communication to any sign from School Flasher Section. Pole Assembly also not included.	\$ 814.00



PNS10-S1ELS5-1-15	S5-1 Speed Limit Edge Light Sign 15MPH (High Vis Florescent Green 24"x48", 12 LED's)	\$ 1,050.00
	<b>If not 15 MPH, What Speed do you want on the sign?</b>	
	<b>If You prefer Specific Times instead of When Flashing, enter a Y and the times needed below</b>	
Am	Pm	
7:45 - 8:45	3:15 - 4:00	
PNS10-S1S1-1-LGK30K	S1-1 Edge Light School Pedestrian Sign Left WITHOUT Lines (30"x30")	\$ 1,045.00
PNS10-S1ELS1-1-RGK30K	S1-1 Edge Light School Pedestrian Sign Right WITHOUT Lines (30"x30")	\$ 1,045.00
PNS10-S1ELS1-1-LGK	S1-1 Edge Light School Pedestrian Sign Left WITHOUT Lines (36"x36")	\$ 1,082.00
PNS10-S1ELS1-1-RGK	S1-1 Edge Light School Pedestrian Sign Right WITHOUT Lines (36"x36")	\$ 1,082.00
PNS10-S1ELS2-1-LGK	S1-1 Edge Light School Pedestrian Sign Left WITH Lines (36"x36")	\$ 1,082.00
PNS10-S1ELS2-1-RGK	S1-1 Edge Light School Pedestrian Sign Right WITH Lines (36"x36")	\$ 1,082.00
PNS10-S1ELW16-7P24-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P24-RGK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-7P-RGK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-9P-GK	W16-9P Edge Light "Ahead" Sign (30"x18")	\$ 1,010.00
PNS10-S1ELS7-1TK	Edge Light Cell Phone Prohibited Sign (24"x18")	\$ 766.00
	<b>Time Switches</b>	
PNS10-503644	AP22 Time Switch W/ Harness	\$ 452.00
PNS10-503644TX	TXDOT/ELTEC Replacement AP22 Time Switch W/ Harness	\$ 452.00
PNS10-503644B	AP22 Time Switch Without Harness	\$ 430.00
PNS10-503644BTX	TXDOT/ELTEC Replacement AP22 Time Switch W/O Harness	\$ 430.00
PNS10-501614	AP21 Time Switch W/ Harness	\$ 338.00
PNS10-501614B	AP21 Time Switch W/O Harness	\$ 320.00
PNS10-503602-D-KITDC	CPR 2102 with Pager W/ Harness (DC Cabinet mount)	\$ 699.00
PNS10-503602-D-KITAC	CPR 2102 with Pager W/ Harness (AC Cabinet mount)	\$ 699.00
PNS10-503645X	CPR 2102 without Pager W/O Harness for M2M Systems	\$ 452.00
PNS10-503645XP	CPR 2102 without Pager W/O Harness for Radio Systems	\$ 452.00
PNS10-501628	ADD a CPR 2102 TXDOT/ELTEC Replacement Wiring Harness	\$ 36.00
PNS10-503518	ADD a CPR 2102 Replacement Wiring Harness	\$ 36.00
	<b>RTC Time Switch M2M Upgrade Program</b>	
PNS10-AP22 UPGR	AP22 Upgrade (Board Replacement) includes 5 Yr Warranty	\$ 250.00
PNS10-AP22 UPGR	AP22 Upgrade (NO Board Replacement)	\$ 135.00
PNS10-CPR UPGR	CPR 2102 Upgrade Years 1-5 (Board Replacement) 5 Yr Warranty	\$ 250.00
PNS10-CPR UPGR	CPR 2102 Upgrade Years 1-5 (NO Board Replacement)	\$ 135.00
PNS10-CPR UPGR10YR	CPR 2102 Upgrade Year 6 and up (Board Replacement)	\$ 322.00
	<b>Guardian Flasher Monitoring System</b>	
PNS10-Guard	DC Guardian Board with Complete 3 way Wiring Harness only (use to replace existing FCB Board and only if there is an existing functional 6 terminal regulator)	\$ 382.00
PNS10-Guard1	DC Guardian Board with Complete 3 way Wiring Harness mounted on small panel (use if there is an existing functional 6 terminal regulator)	\$ 404.00
PNS10-GuardTX	DC Guardian Board with Complete 3 way TXDOT Wiring Harness and Large Panel, includes a new 20A regulator	\$ 495.00
PNS10-Guard2	DC Guardian Board with Complete 3 way Wiring Harness and Large Panel, includes a new 20A regulator	\$ 495.00
PNS10-GuardAC1	AC Guardian (Blue Enclosure) with Complete 2 way Wiring Harness (to be wired into panel with existing NEMA Flasher)	\$ 434.00
PNS10-GuardCAR	Guardian Board to monitor a Carmanah Flasher	\$ 450.00
PNS10-507403S	Optional Door Switch for DC Guardian	\$ 30.00
PNS10-507403SC	Optional Door Switch for AC Guardian	\$ 30.00
PNS10-507403H2	DC Guardian Complete 3 Way Harness	\$ 29.00
PNS10-507403HAC	AC Guardian Complete 3 Way Harness	\$ 68.00
	<b>M2M Systems</b>	
PNS10-M2M5YR-4K	Five Year Plan With Modem, RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage, Cell Service, Cable, Mount and Antenna	\$ 1,300.00

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PNS10-M2M3YR-4K	Three Year Plan With Modem, RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage, Cell Service, Cable, Mount and Antenna	\$ 1,100.00
PNS10-M2M1YR-4K	One Year Plan With Modem, RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage, Cell Service, Cable, Mount and Antenna	\$ 900.00
PNS10-M2M5YR-RE	Five Year RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage and Cell Service Plan Only	\$ 720.00
PNS10-M2M3YR-RE	Three Year RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage Data and Cell Service Plan Only	\$ 540.00
PNS10-M2M1YR-RE	One Year RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage Data and Cell Service Plan Only	\$ 241.00
PNS10-M2M1MONTH-RE	One MONTH Adder to renewal plan to match existing service ONLY	\$ 16.00
PNS10-CANADA	Canadian Plans Per Year Adder	\$ 25.00
PNS10-503644	Include an AP22 with ANY Modem and Plan	\$ 387.00
PNS10-503644TX	Include a TXDOT AP22 with ANY Modem and Plan	\$ 387.00
PNS10-M2M4WA	Modem With Cable, Mount and Paddle Antenna	\$ 716.00
PNS10-M2MTSC	TSC Modem With Cable, Slide on Bracket, Antenna (Include SIM card, plan billed directly to customer)	\$ 625.00
PNS10-M2M4WOA	Modem With Cable, Mount but no Antenna	\$ 625.00
PNS10-M2MOBSWAR	Modem Obsolescence Warranty (ONLY for Use with 5 yr plan Renewals)	\$ 325.00
PNS10-M2MYagi	7-10 Db M2M Yagi Antenna with 15' Lead and 20" Offset Mounting Bracket	\$ 333.00
PNS10-506473	7-10 Db M2M Omni Puck Antenna with 3' Lead and Mounting Bracket	\$ 125.00
PNS10-506473MT	Internal Paddle Antenna	\$ 48.00
PNS10-M2MYCBL	M2M and E2 Y Programming Cable	\$ 36.00
PNS10-506475M2	Modem Cable for 3G or 4G modem	\$ 34.00
PNS10-M2MWRTY3	Additional 3 Year Warranty on Modem to get to 5 year total Warranty	\$ 176.00
	<b>Central R2 Radio System</b>	
PNS10-R2Master	Master 900 MHz Radio with Mounted 6dB OMNI Antenna & 50' Lead w/ Suppressor	\$ 891.00
PNS10-R2Remote	Remote 900 MHz with Mounted 10dB Yaggi Antenna & 25' Lead	\$ 874.00
PNS10-503649FACSA	AC Repeater Station (CPR2102 Time Switch, Cabinet, MH Repeater Radio, 5dB Omni Antenna, 50' Lead)	\$ 1,353.00
PNS10-503649FSA	DC Repeater Station (CPR 2102 Time Switch, Cabinet, Solar Panel, Battery, MH Repeater Radio, 5dB Omni Antenna, 50' Lead)	\$ 2,521.00
PNS10-503647DSA	Replacement Master Radio with Power Supply (No Antenna Included)	\$ 641.00
PNS10-503648DM	Replacement Master Radio without Power Supply (No Antenna Included)	\$ 602.00
PNS10-503648DSA	Replacement Remote Radio without Power Supply (No Antenna Included)	\$ 602.00
	<b>If either Replacement Radio is a Repeater please enter a Y</b>	
PNS10-R2ESR2	ESR 902 Serial Port Server & Cables to connect existing radio to network	\$ 779.00
PNS10-501676FM	Master Radio and ESR 902 Ethernet Switch and Cables	\$ 1,834.00
	<b>This LAN assembly comes with a 50 ft. antenna lead. If you need more (or less) cable, please call RTC at (800) 782-8721 for pricing.</b>	
	<b>Mobile R2</b>	
PNS10-503646B	Two Way Mobile Radio for Vehicle w/5Db Antenna, Power Cord and Serial Cable	\$ 858.00
PNS10-R2Remote	Remote 900 MHz with Mounted 10dB Yaggi Antenna & 25' Lead	\$ 874.00
	<b>E2 Ethernet Switch</b>	
PNS10-503486	E2 Ethernet Switch Converter	\$ 259.00
PNS10-503486YC	E2 Y programming Cable	\$ 17.00
	<b>Central R1 (MDS) Radio System (Existing Customers Only)</b>	
PNS10-503646KIT	Master MDS 900 MHz Radio with Mounted 5dB OMNI Antenna & 50' Lead w/ Suppressor	\$ 1,083.00
PNS10-503648CKIT	Remote MDS 900 MHz Radio with Mounted 10dB Yagi Antenna & 25' Lead w/ Suppressor	\$ 1,083.00
PNS10-503646	Replacement Master Radio with Adapter for CPR 2102 Power Supply (No Antenna Included)	\$ 885.00
PNS10-505402	Replacement Master Radio without Power Supply or cable (No Antenna Included)	\$ 885.00
PNS10-503648C	Replacement Remote Radio without Power Supply ( for AP22 or CPR2102 Antenna Included)	\$

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PNS10-503645LV	CPR2102 with Remote MDS 900 MHz Radio with Mounted 5dB Omni Antenna and 50' Lead/ suppressor for Las Vegas Nevada	\$ 1,323.00
PNS10-503645E	CPR2102 with Remote MDS 900 MHz Radio with Mounted 5dB Omni Antenna and 50' Lead/ suppressor for Clark County	\$ 1,323.00
	<b>If either Replacement Radio is a Repeater please enter a Y</b>	
PNS10-501676F	Master MDS Radio and ESR 902 Ethernet Switch and Cables	\$ 2,041.00
	This LAN assembly comes with a 50 ft. antenna lead. If you need more (or less) cable, please call RTC at (800) 782-8721 for pricing.	
	<b>RTC Driver Feedback Signs</b>	
	<b>Power Timing and Commuication Options</b>	
PNS10-DFS-AC11	11" A/C Basic Driver Feedback Sign to tie into existing A/C Cabinet (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,370.00
PNS10-DFS-AC11P	11" A/C "Stand Alone" Basic Driver Feedback Sign (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,542.00
PNS10-DFS-DC11	11" D/C Basic Driver Feedback Sign to tie into existing D/C Power (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,319.00
PNS10-DFS-DC11P	11" D/C "Stand Alone" Basic Driver Feedback Sign includes (2) 22 Ah Batteries and 20 Watt Solar Panel (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,765.00
PNS10-DFS-AC12	12" A/C Stand Alone Basic Driver Feedback Sign (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,230.00
PNS10-DFS-DC12	12" D/C Stand Alone Basic Driver Feedback Sign to tie into existing D/C Power (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,179.00
PNS10-DFS-DC12P	12" D/C Stand Alone Basic Driver Feedback Sign includes (2) 22 Ah Batteries and 20 Watt Solar Panel (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,807.00
PNS10-DFS-AC15	15" A/C Stand Alone Basic Driver Feedback Sign (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,813.00
PNS10-DFS-DC15	15" D/C Stand Alone Basic Driver Feedback Sign to tie into existing D/C Power (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 2,763.00
PNS10-DFS-DC15P	15" D/C Stand Alone Basic Driver Feedback Sign includes (2) 22 Ah Batteries and 20 Watt Solar Panel (add Time Switch, Communication Plan/Gateway and Guardian Board as needed)	\$ 3,389.00
PNS10-503644B	Add AP22 Time Switch to any Driver Feedback sign	\$ 430.00
PNS10-507413	If you add a Commuication Plan below also add a gateway board	\$ 59.00
PNS10-M2M5YR-4K	Add Five Year Commuicaion Plan With Modem, RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage, Cell Service, Cable, Mount and Antenna	\$ 1,300.00
PNS10-M2M3YR-4K	Add Three Year Commuicaion Plan With Modem, RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage, Cell Service, Cable, Mount and Antenna	\$ 1,100.00
PNS10-M2M1YR-4K	Add One Year Commuicaion Plan With Modem, RTC Connect™ Software, Premium "Always up" Cloud Based Data Storage, Cell Service, Cable, Mount and Antenna	\$ 900.00
PNS10-Guard	Add D/C Guardian Board with wiring harness only (use only if there is an existing functional 6 terminal regulator)	\$ 382.00
PNS10-SUB40W	Substitute 40 Watt for 20 Watt Solar Panel	\$ 98.00
PNS10-ADD22AH	Add 2 more 22Ah Gel cell Batteries	\$ 155.00
	<b>RTC Edgelight© Signs</b>	
PNS10-S1ELASSY	This line adds a Cabinet (Including Configurable Dimming and Configurable Flash Patterns ),20W Solar Panel, 22Ah Battery to ANY Edgelight© sign. Note: with one battery cabinet you can add an AP22 Time Switch, Guardian© and M2M communication to any sign from School Flasher Section. Pole Assembly also not included.	\$ 814.00

	<b>Edge Light School Zone Signs (Sign Only to add to regular or existing battery cabinet installation) Ubolt Mounting Hdwre included, Banding available on request</b>	
PNS10-S1ELS5-1-15	S5-1 Speed Limit Edge Light Sign 15MPH (High Vis Florescent Green 24"x48", 12 LED's)	\$ 1,050.00
	<b>If not 15 MPH, What Speed do you want on the sign?</b>	<b>MPH?</b>
PNS10-S1S1-1-LGK30K	S1-1 Edge Light School Pedestrian Sign Left WITHOUT Lines (30"x30")	\$ 1,045.00
PNS10-S1ELS1-1-RGK30K	S1-1 Edge Light School Pedestrian Sign Right WITHOUT Lines (30"x30")	\$ 1,045.00
PNS10-S1ELS1-1-LGK	S1-1 Edge Light School Pedestrian Sign Left WITHOUT Lines (36"x36")	\$ 1,082.00
PNS10-S1ELS1-1-RGK	S1-1 Edge Light School Pedestrian Sign Right WITHOUT Lines (36"x36")	\$ 1,082.00
PNS10-S1ELS2-1-LGK	S1-1 Edge Light School Pedestrian Sign Left WITH Lines (36"x36")	\$ 1,082.00
PNS10-S1ELS2-1-RGK	S1-1 Edge Light School Pedestrian Sign Right WITH Lines (36"x36")	\$ 1,082.00
PNS10-S1ELW16-7P24-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P24-RGK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-7PR-GK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-9P-GK	W16-9P Edge Light "Ahead" Sign (30"x18")	\$ 1,010.00
PNS10-S1ELS7-1TK	Edge Light Cell Phone Prohibited Sign (24"x18")	\$ 766.00
	<b>Edge Light Stop Signs (Edge Light Sign Only to add to regular or existing battery cabinet installation) Ubolt Mounting Hdwre included, Banding available on request</b>	
PNS10-ELR1-1 30K	R1-1 Stop Edge Light Sign (30"x30", 8 LED's)	\$ 1,041.00
PNS10-ELR1-1 36K	R1-1 Stop Edge Light Sign (36"x36", 8 LED's)	\$ 1,067.00
PNS10-ELR1-1 48K	R1-1 Stop Edge Light Sign (48"x48", 8 LED's)	\$ 1,117.00
	<b>Edge Light Pedestrian Crossing Signs (Edge Light Sign Only to add to regular or existing battery cabinet installation)</b>	
PNS10-ELW11-2-36K	W11-2 Edge Light Pedestrian Sign Walking Left HV Green, No Lines (36"x36")	\$ 1,101.00
PNS10-ELW11-2R-36K	W11-2 Edge Light Pedestrian Sign Walking Right HV Green, No Lines (36"x36")	\$ 1,101.00
PNS10-ELW11-2K	W11-2 Edge Light Pedestrian Sign Walking Left HV Green, No Lines (30"x30")	\$ 1,065.00
PNS10-ELW11-2RK	W11-2 Edge Light Pedestrian Sign Walking Right HV Green, No Lines (30"x30")	\$ 1,065.00
PNS10-S1ELW16-7P24-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P24-RGK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-7PR-GK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-9P-GK	W16-9P Edge Light "Ahead" Sign (30"x18")	\$ 1,010.00
	<b>Edge Light Other Signs (Specify MUTCD Sign or ANY Other Sign)</b>	
	Describe Sign Here (Include MUTCD Code if known and Size )	
	<b>RTC Fire Station Warning Systems</b>	

	<b>Includes Cabinet, Push to Activate Sign, Fire Station Text and Truck Icon Sign, 20W Solar Panel and 53 Ah Battery for Solar Options</b>	
	<b>Add Poles, Pole Anchors, Signal Heads, Other Signs, LED's or RRFB's if Required</b>	
	<b>If you want to mount Cabinet to the shaft of a Signal Pole enter Y</b>	
	<b>Activation Cabinet Options</b>	
PNS10-600001MC	Fire Station Warning System Facility and Remote Activated (for use with Light Duty Handheld Device, Not Included)	\$ 2,688.00
PNS10-600001E	Opticom® Activated Transmission and Opticom® Receiving (Does not include GTT Opticom phase selector or detector or cable)	\$ 2,831.00
PNS10-600001RT	Radio Activated Transmission and Opticom® Receiving (Does not include GTT Opticom phase selector or detector or cable) Includes upgrade to 40 W Solar Panel	\$ 3,017.00
	<b>Receiving Cabinet Options</b>	
PNS10-600002R	DC Fire Station Receiving Cabinet From Facility or Light Duty Remote (20 Watt Solar Panel and 53 AH Battery)	\$ 2,478.00
PNS10-600007R	AC Fire Station Receiving Cabinet From Facility or Light Duty Remote (Part # 502507HH)	\$ 1,951.00
PNS10-502547MC	Light Duty Vehicle Remote Control	\$ 99.00
	<b>Pole Assemblies (includes Base, Collar, Anchor Bolts and Grounding Lug)</b>	
PNS10-POLE15SPALASSY	15' Spun Aluminum Pole, Base and Collar and Anchor Bolts	\$ 571.00
PNS10-POLE15BLKASSY	15' Spun Aluminum Pole, Base and Collar and Anchor Bolts Powdercoated Black	\$ 638.00
PNS10-	<b>If you want to use a Screw-In Anchor instead of Anchor Bolts select an Anchor</b>	\$ 35.00
PNS10-501312SA4	4" Anchor Pelco PB-5364	\$ 298.00
PNS10-501312SA8	8" Anchor Pelco PB-5375	\$ 516.00
	<b>12" Signals (Includes Visor, closure kit and Ubolt mounting hdwre)</b>	
PNS10-SIGPY	12" Signal Heads Poly Yellow (1, 2 or 3 per flasher)	\$ 144.00
PNS10-SIGPB	12" Signal Heads Poly Black (1,2 or 3 per flasher)	\$ 144.00
PNS10-SIGAY	12" Signal Heads Aluminum Yellow (1, 2 or 3 per Flasher)	\$ 152.00
PNS10-SIGAB	12" Signal Heads Aluminum Black (1, 2 or 3 per flasher)	\$ 152.00
PNS10-	<b>If you want to use a Side by Side Mounting instead of Top and Bottom enter Y</b>	
	<b>12" LED's</b>	
PNS10-502463	12" Amber DC 5 Watt LED IL (RTC Standard) (1, 2 or 3 per flasher)	\$ 68.00
PNS10-PNS-82-TSL12YLX0	12" Amber AC LED IL (1, 2 or 3 per flasher) Change Solar and Battery Sizing	\$ 68.00 \$ -
PNS10-SUB30W	Substitute 30 Watt for 20 Watt Solar Panel	\$ 88.00
PNS10-SUB40W	Substitute 40 Watt for 20 Watt Solar Panel	\$ 98.00
PNS10-SUB50W	Substitute 50 Watt for 20 Watt Solar Panel	\$ 130.00
PNS10-SUB65W	Substitute 65 Watt for 20 Watt Solar Panel	\$ 216.00
PNS10-SUB85W	Substitute 85 Watt for 20 Watt Solar Panel	\$ 334.00
PNS10-SUB100W	Substitute 100 Watt for 20 Watt Solar Panel	\$ 402.00
PNS10-SUB130W	Substitute 130 Watt for 20 Watt Solar Panel	\$ 493.00
PNS10-SUB150W	Substitute 150 Watt for 20 Watt Solar Panel	\$ 736.00
PNS10-SUB104A	Substitute 104Ah for 53Ah Battery	\$ 152.00
	<b>RTC Pedestrian Crossing Systems</b>	
	<b>Includes Cabinet, "Push to Activate" Sign, 40 Watt Solar Panel and 53 Ah Battery for Solar Stations</b>	
	<b>Add Poles, Pole Anchors, Signal Heads, LED's or RRFB's or Other Signs if Required</b>	
	<b>If you want to mount Cabinet to the shaft of a Signal Pole enter Y</b>	
PNS10-600008ID	DC Pedestrian Crossing W/ Polara Model X APS Bluetooth Pushbutton	\$ 2,388.00
PNS10-600008M	DC Pedestrian Crossing Master W/ Pushbutton (1 -2 Remotes)	\$ 2,388.00

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PNS10-600008MA	DC Pedestrian Crossing Master W/ Pushbutton (3 -6 Remotes)	\$ 2,652.00
PNS10-600008R	DC Pedestrian Crossing Remote W/ Pushbutton	\$ 2,388.00
PNS10-FlashCube-M	DC Flash Cube™ Pedestrian Crossing Master W/ Pushbutton (Includes One Flashing beacon)	\$ 1,968.00
PNS10-FlashCube-R	DC Flash Cube™ Pedestrian Crossing Remote W/ Pushbutton (Includes one flashing Beacon)	\$ 1,968.00
PNS10-600005M	AC Pedestrian Crossing Master W/ Pushbutton (1-2 Remotes)	\$ 1,892.00
PNS10-600005MA	AC Pedestrian Crossing Master W/ Pushbutton (3 or more remotes)	\$ 2,155.00
PNS10-600004R	AC Pedestrian Crossing Remote W/ Pushbutton	\$ 1,892.00
PNS10-50643062	Gateway Radio for Ped Crossing	\$ 451.00
PNS10-506430N2	Node Radio for Ped Crossing	\$ 451.00
PNS10-Cube2	Add a Second LED, Signal, Visor and Mount to FlashCube	\$ 378.00
PNS10-Cube3	Add a Third Confirmation LED, Signal, Visor and Mount	\$ 378.00
	<b>Change Solar and Battery Sizing</b>	
PNS10-SUB20W	Substitute 20 Watt for 40 Watt Solar Panel	\$ (97.00)
PNS10-SUB30W	Substitute 30 Watt for 40 Watt Solar Panel	\$ (9.00)
PNS10-SUB50W	Substitute 50 Watt for 40 Watt Solar Panel	\$ 33.00
PNS10-SUB65W	Substitute 65 Watt for 40 Watt Solar Panel	\$ 118.00
PNS10-SUB85W	Substitute 85 Watt for 40 Watt Solar Panel	\$ 237.00
PNS10-SUB100W	Substitute 100 Watt for 40 Watt Solar Panel	\$ 304.00
PNS10-SUB130W	Substitute 130 Watt for 40 Watt Solar Panel	\$ 395.00
PNS10-SUB150W	Substitute 150 Watt for 40 Watt Solar Panel	\$ 638.00
PNS10-SUB104A	Substitute 104Ah for 53Ah Battery	\$ 152.00
PNS10-SUBAPS	Substitute a Yellow Model X APS pushbutton for Bulldog Including Changing Control Panel (Add One for each Master and One for each Remote)	\$ 619.00
PNS10-	Remove Push button from Assembly	\$ (196.00)
PNS10-	Add a Second Pushbutton	\$ 196.00
PNS10-503499S	Polara 9X12 Push to Activate Sign	\$ 35.00
PNS10-APS MSG	Special Message Fee	\$ 40.00
	<b>Signs for Ped Crossings (Includes U-Bolt Mounting)</b>	
PNS10-S1W11-2-G-36K	W11-2 Pedestrian Sign Walking Left HV Green No Lines (36"x36")	\$ 226.00
PNS10-S1W11-2R-G-36K	W11-2 Pedestrian Sign Walking Right HV Green No Lines (36"x36")	\$ 226.00
PNS10-S1W11-2K	W11-2 Pedestrian Sign Walking Left HV Green No Lines (30"x30")	\$ 178.00
PNS10-S1W11-2RK	W11-2 Pedestrian Sign Walking Right HV Green No Lines (30"x30")	\$ 178.00
PNS10-5003357AT	Bolt Kit for Back to Back Edge Light Signs or Back to Back RRFB's	\$ 18.00
PNS10-S1S2-1-LGK	S2-1 School Pedestrian Sign Left WITH Lines (36"x36") HV Green	\$ 222.00
PNS10-S1S2-1-RGK	S2-1 School Pedestrian Sign Right WITH Lines (36"x36") HV Green	\$ 222.00
PNS10-S1W16-7P24-GK	W16-7P Arrow Pointing Left to Crossing Sign (24"x12") HV Green	\$ 79.00
PNS10-S1W16-7P24-RGK	W16-7P Arrow Pointing Right to Crossing Sign (24"x12") HV Green	\$ 79.00
PNS10-S1W16-9P-GK	W16-9P "Ahead" Sign (30"x18") HV Green	\$ 116.00
	<b>Edge Light Pedestrian Crossing Signs (Edge Light Sign Only to add to existing battery cabinet installation)</b>	
PNS10-ELW11-2K	W11-2 Edge Light Pedestrian Sign Walking Left HV Green, No Lines (30"x30")	\$ 1,065.00
PNS10-ELW11-2RK	W11-2 Edge Light Pedestrian Sign Walking Right HV Green, No Lines (30"x30")	\$ 1,065.00
PNS10-ELW11-2-36K	W11-2 Edge Light Pedestrian Sign Walking Left HV Green, No Lines (36"x36")	\$ 1,101.00
PNS10-ELW11-2R-36K	W11-2 Edge Light Pedestrian Sign Walking Right HV Green, No Lines (36"x36")	\$ 1,101.00
PNS10-S1ELW16-7P24-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P24-RGK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (24"x12")	\$ 972.00
PNS10-S1ELW16-7P-GK	W16-7P Edge Light Arrow Pointing Left to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-7PR-GK	W16-7P Edge Light Arrow Pointing Right to Crossing Sign (30"x18")	\$ 1,010.00
PNS10-S1ELW16-9P-GK	W16-9P Edge Light "Ahead" Sign (30"x18")	\$ 1,010.00



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PNS10-S1ELASSY	This line adds a Cabinet (Including Configurable Dimming and Configurable Flash Patterns ),20W Solar Panel, 22Ah Battery to ANY Edgelight© sign. Note: with one battery cabinet you can add an AP22 Time Switch, Guardian© and M2M communication to any sign from School Flasher Section. Pole Assembly also not included.	\$ 814.00
	<b>RRFB's in Black Aluminum (Ubolt Mounting Hdwre, Banding Available on request)</b>	
	<b>If you want to change the color to Yellow enter Y</b>	
PNS10-503661D	Single Solar RRFB (No Confirmation Light) (Ubolt Mount)	\$ 705.00
PNS10-503661DB	Single Solar RRFB (No Confirmation Light) (Banding Mount)	\$ 672.00
PNS10-503661D2	Back to Back Solar RRFBs (No Confirmation Light) (Ubolt Mount)	\$ 1,326.00
PNS10-503661DC	Single Solar RRFB W/ Confirmation Light (Ubolt Mount)	\$ 790.00
PNS10-503661DCB	Single Solar RRFB W/ Confirmation Light (Banding Mount)	\$ 758.00
PNS10-503661DCC	Single Solar RRFB W/ Two Confirmation Lights (Ubolt Mount)	\$ 874.00
PNS10-503661DCCB	Single Solar RRFB W/ Two Confirmation Lights (Banding Mount)	\$ 842.00
PNS10-503661DC2	Back to Back Solar RRFBs W/ One Confirmation Light (Ubolt Mount)	\$ 1,485.00
PNS10-503661DC2B	Back to Back Solar RRFBs W/ One Confirmation Light (Banding Mount)	\$ 1,430.00
PNS10-503661DC3	Back to Back Solar RRFBs W/ Two Confirmation Lights (Ubolt Mount)	\$ 1,570.00
PNS10-503661DCC2	Back to Back Solar RRFBs W/ Four Confirmation Lights (Ubolt Mount)	\$ 1,729.00
PNS10-503661A	Single AC RRFB (No Confirmation Light) (Ubolt Mount)	\$ 775.00
PNS10-503661AB	Single AC RRFB (No Confirmation Light) (Banding Mount)	\$ 742.00
PNS10-503661A2	Back to Back AC RRFBs (No Confirmation Light) (Ubolt Mount)	\$ 1,542.00
PNS10-503661AC	Single AC RRFB W/ Confirmation Light (Ubolt Mount)	\$ 861.00
PNS10-503661ACB	Single AC RRFB W/ Confirmation Light (Banding Mount)	\$ 829.00
PNS10-503661ACC	Single AC RRFB W/ two Confirmation Light (Ubolt Mount)	\$ 946.00
PNS10-503661ACCB	Single AC RRFB W/ two Confirmation Light (Banding Mount)	\$ 914.00
PNS10-503661AC2	Back to Back AC RRFBs W/ One Confirmation Light (Ubolt Mount)	\$ 1,616.00
PNS10-503661AC2B	Back to Back AC RRFBs W/ One Confirmation Light (Banding Mount)	\$ 1,561.00
PNS10-SUB30W	Substitute 30 Watt for 20 Watt Solar Panel	\$ (9.00)
PNS10-SUB40W	Substitute 40 Watt for 20 Watt Solar Panel	\$ (97.00)
PNS10-SUB50W	Substitute 50 Watt for 20 Watt Solar Panel	\$ 31.00
PNS10-SUB65W	Substitute 65 Watt for 20 Watt Solar Panel	\$ 118.00
PNS10-SUB85W	Substitute 85 Watt for 20 Watt Solar Panel	\$ 237.00
PNS10-SUB104A	Substitute 104Ah for 53Ah Battery	\$ 152.00
	<b>Pole Assemblies (includes Base, Collar, Anchor Bolts and Grounding Lug)</b>	
PNS10-POLE15SPALASSY	15' Spun Aluminum Pole, Base and Collar and Anchor Bolts	\$ 571.00
PNS10-POLE15BLKASSY	15' Spun Aluminum Pole, Base and Collar and Anchor Bolts Powdercoated Black	\$ 638.00
PNS10-	<b>If you want to use a Screw-In Anchor instead of Anchor Bolts select an Anchor</b>	\$ 35.00
PNS10-501312SA4	4" Anchor Pelco PB-5364	\$ 298.00
PNS10-501312SA8	8" Anchor Pelco PB-5375	\$ 516.00
	<b>12" Signals (Includes Visor, closure kit and Ubolt mounting hdwre)</b>	
PNS10-SIGPY	12" Signal Heads Poly Yellow (1, 2 or 3 per flasher)	\$ 144.00
PNS10-SIGPB	12" Signal Heads Poly Black (1,2 or 3 per flasher)	\$ 144.00
PNS10-SIGAY	12" Signal Heads Aluminum Yellow (1, 2 or 3 per Flasher)	\$ 152.00
PNS10-SIGAB	12" Signal Heads Aluminum Black (1, 2 or 3 per flasher)	\$ 152.00
	<b>If you want to use a Side by Side Mounting instead of Top and Bottom enter Y</b>	
	<b>12" LED's</b>	
PNS10-502463	12" Amber DC 5 Watt LED IL (RTC Standard) (1, 2 or 3 per flasher)	\$ 68.00
PNS10-PNS-82-TSL12YXLX	12" Amber AC LED IL (1, 2 or 3 per flasher)	\$ 68.00
	<b>RTC Ala Carte Section</b>	
	<b>Signal Cabinets (ALL RTC Cabinets include all load switches, flash transfer realys, isolators, power supplies and BIU's as needed)</b>	
PNS10-TS1	TS1 Cabinet No Conflict Monitor or Controller	\$ 9,096.00
PNS10-TS1M	TS1 Cabinet with EDI Conflict Monitor but No Controller	\$ 10,132.00
PNS10-TS1MC	TS1 Cabinet with EDI Conflict Monitor and McCain Controller	\$ 12,520.00
PNS10-TS2	TS2 Cabinet No Conflict Monitor or Controller	\$ 10,751.00
PNS10-TS2M	TS2 Cabinet with EDI Conflict Monitor but No Controller	\$ 11,132.00

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PNS10-TS2MC	TS2 Cabinet with EDI Conflict Monitor and McCain Controller	\$ 14,177.00
PNS10-TS2TX	TXDOT TS2 Cabinet with EDI Conflict Monitor but No Controller	\$ 12,277.00
	<b>Time Switches Ala Carte</b>	
PNS10-503644B	AP22 Time Switch W/O Harness	\$ 430.00
PNS10-AP22H	AP22 Harness 48"	\$ 31.00
PNS10-504567	Program Transfer Cable PC to AP22/CPR/TR4	\$ 40.00
PNS10-500637	Program Transfer Cable Kit PC to AP22/CPR/TR4	\$ 129.00
PNS10-504558	AP22 Transfer Cable (Clock to Clock)	\$ 23.00
PNS10-	AP22 Time Clock Upgrade and Warranty	\$ 137.00
PNS10-501614B	AP21 Time Switch W/O Harness	\$ 320.00
PNS10-503518	AP21 & CPR2102 Harness 48"	\$ 31.00
PNS10-500512	Program Transfer Cable PC to AP21 or AP21 to AP21	\$ 10.00
PNS10-500635D	Program Transfer Cable KIT PC to AP21 or AP21 to AP21	\$ 72.00
PNS10-500482	DB9 to RJ45 Adapter Cable	\$ 55.00
PNS10-500625	AP21TR AC Time Switch (No Keypad or Display)	\$ 195.00
PNS10-500634	AP21TR DC Time Switch (No Keypad or Display)	\$ 195.00
PNS10-500455	Base Relay for DCF 2 circuit Flasher and AP21TR	\$ 7.00
PNS10-505426	Adapter USB to DB9	\$ 52.00
PNS10-500517	Power Cord for all Time Switches	\$ 43.00
PNS10-507409	Memory Capacitor (was 501808)	\$ 10.00
PNS10-500335E	Mounting Bracket for Pager Antenna in DC Cabinet	\$ 36.00
PNS10-503349K	Mounting Bracket for Pager Antenna in AC Cabinet	\$ 83.00
PNS10-501532C	GPS Receiver W/ Harness	\$ 260.00
PNS10-506445CPWM-3	CPR 2102 Time Clock Upgrade and Warranty	\$ 138.00
PNS10-503525A	CPR 2102 Pager Antenna w/ 30' Lead	\$ 94.00
PNS10-501628	ADD a CPR 2102 TXDOT/ELTEC Replacement Wiring Harness	\$ 36.00
PNS10-503518	ADD a CPR 2102 Replacement Wiring Harness	\$ 36.00
	<b>Communication Options:</b>	
	<b>R1 and R2 Radio and Antenna Options</b>	
PNS10-505472-11dB	11dB Omni Antenna with Mounting Bracket	\$ 536.00
PNS10-503525Y	10dB Yagi Antenna W/ Mounting Bracket, 25' Lead	\$ 189.00
PNS10-505472-5	5dB OMNI Antenna W/O Mounting Bracket, No Lead	\$ 176.00
PNS10-503525BE	3dB OMNI Antenna W/O Mounting Bracket, 30' Lead	\$ 105.00
PNS10-502356	Mounting Bracket for all Yagi Antennas	\$ 98.00
PNS10-505472-5B	Mounting Bracket For 5dB Omni Antenna on 1.5" pole (for 505472-5)	\$ 38.00
PNS10-500335E	Mounting Bracket For 5dB Omni, CPR Pager 3dB Omni Antennas on Solar Panel	\$ 22.00
PNS10-505472L-25	25' 240 Series Antenna Lead Only (No Lightning Suppressor)	\$ 40.00
PNS10-505472L-50	50' 240 Series Antenna Lead With Suppressor	\$ 235.00
PNS10-505472L-100	100' 400 Series Antenna Lead With Suppressor	\$ 299.00
PNS10-505472L-100BE	100' 400 Series Antenna Lead With Suppressor (for 503525BE, Fire Station WS)	\$ 326.00
PNS10-505472L-150	150' 400 Series Antenna Lead With Suppressor	\$ 394.00
PNS10-505433	Lightning Suppressor for Antenna Lead	\$ 43.00
PNS10-505476-2	ESR 902 Serial Port Server (No Cables)	\$ 755.00
PNS10-505476C	6 Foot Serial Cable from Radio to Switch	\$ 22.00
PNS10-505476EC	7 Foot Cat 5 Cable from LAN to Switch	\$ 13.00
PNS10-501257	2 Conductor Cable for RRFB Pigtail (Per Foot) (A/C Only)	\$ 1.00
	<b>Solar and AC Cabinet Back Panels and Components</b>	
PNS10-Eng	Specialty Panel Engineering Adder Per Hour	\$ 125.00
PNS10-503333UB	One Battery Cabinet Cabinet Only	\$ 478.00
PNS10-503333FB	One Battery Cabinet - Cabinet Only + Flared Pole Mount	\$ 486.00
PNS10-503333HB	One Battery Cabinet - Cabinet Only + Hinge Bracket Mount	\$ 486.00
PNS10-502598SW	One Battery Cabinet - Panel Only	\$ 309.00
PNS10-503568	Two Battery Cabinet - Cabinet Only - Ubolt mount	\$ 819.00
PNS10-503576	Two Battery Cabinet - Cabinet Only - Flare Bracket mount	\$ 819.00
PNS10-503568-3PT	Houston Two Battery Cabinet - + 3PT Lock	\$ 819.00
PNS10-502598	Houston Two Battery Cabinet - Panel Only Add 50489-15 Regulator, and 500540 Flasher	\$ 234.00
PNS10-SFGP3LED	Grand Prairie Two Battery Cabinet (Complete with Radio and CPR 2102 Time Switch, Pole, base, anchor bolts, signals and LED's)	\$ 4,905.00
PNS10-502598GP	Grand Prairie Two Battery Cabinet Panel Only (Add 20A SS Regulator & DCF2)	\$ 247.00
PNS10-501302-3PT	Houston Two Battery Cabinet with Three Point lock	\$ 670.00
PNS10-500341CCNK	Clark County AC School Cabinet and Panel	\$ 939.00
PNS10-500341CCNPK	Clark County AC Pedestrian Crossing Cabinet and Panel (No Ped ISO)	\$ 1,204.00
PNS10-502598LCB	Panel Only for Two Battery Cabinet With Regulator	\$ 283.00
PNS10-502564	AC Cabinet - Cabinet Only + Ubolts	\$ 373.00



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PNS10-502565	AC Cabinet - Cabinet Only + Flared Pole Mount	\$ 373.00
PNS10-502565HB	AC Cabinet - Cabinet Only + Hinge Bracket Mount	\$ 373.00
PNS10-502505	A/C Panel ( NEMA Flasher Only, No Flash Transfer Relay)	\$ 248.00
PNS10-500533	NEMA Flasher	\$ 40.00
PNS10-502505P	Pelco Cabinet Replacement Panel (does not include AP22, M2M or Guard)	\$ 348.00
PNS10-500357	Mounting Bracket 4.5" Ubolt	\$ 55.00
PNS10-500357B	Mounting Bracket 4.5" Ubolt Powder Coated	\$ 59.00
PNS10-502364-4	Mounting Bracket - Flared for Signal Poles (AC cabinet needs one, DC cabinets need 2 each)	\$ 22.00
PNS10-502364HB	Mounting Bracket 4.5" Hinged Bracket (DC Cabinets)	\$ 129.00
PNS10-502364HBA	Mounting Bracket 4.5" Hinged Bracket (AC Cabinets)	\$ 151.00
PNS10-502598	DC Panel Assy (Houston Spec)(No DCF, No Regulator)	\$ 111.00
PNS10-502598BP	DC Panel Assy (Quick Replacement/Small Footprint)	\$ 309.00
PNS10-502598GP	DC Panel Assy (Grand Prairie Spec)	\$ 300.00
PNS10-500540	DCF 2 circuit Flasher	\$ 159.00
PNS10-502598FCBA	Circuit Board Flasher Interface W/ Automotive Fuses)	\$ 163.00
PNS10-500489-15	15 Amp Regulator PROSTAR LCD Screen (up to 250 Watt System)	\$ 257.00
PNS10-504459SS20	20 Amp Sun Saver Regulator Without LCD Display (up to 320 Watt System)	\$ 143.00
PNS10-501359	# 2 Key for Lock	\$ 4.00
PNS10-500380	# 2 Lock (includes 1 key)	\$ 31.00
PNS10-500316	# 1 (Police) Key for Lock	\$ 3.00
PNS10-500315	# 1 (Police) Lock (includes 1 key)	\$ 22.00
<b>Solar Panels (Wiring Kit Included), Brackets and Wiring Kits</b>		
PNS10-502400-20	20 Watt Solar Panel ONLY	\$ 120.00
PNS10-502400-30	30 Watt Solar Panel ONLY	\$ 208.00
PNS10-502400-40	40 Watt Solar Panel ONLY	\$ 217.00
PNS10-502400-50	50 Watt Solar Panel ONLY	\$ 250.00
PNS10-502400-65	65 Watt Solar Panel ONLY	\$ 335.00
PNS10-502400-85	85 Watt Solar Panel ONLY	\$ 454.00
PNS10-502400-100	100 Watt Solar Panel ONLY	\$ 521.00
PNS10-502400-130	130 Watt Solar Panel ONLY	\$ 612.00
PNS10-502400-150	150 Watt Solar Panel ONLY	\$ 855.00
PNS10-502400-M	Banding Mounting Bracket 20-50 W for Most Pole Sizes (Includes Bolt Kit)	\$ 86.00
PNS10-503371U	Gimble Mount for 2" Square Pole	\$ 213.00
PNS10-503371PK	Small Top of Pole Mount Kit	\$ 174.00
PNS10-502400-M2	4.5 OD Top of Pole Gimble Mounting Bracket 65-130 W (Includes Bolt Kit)	\$ 199.00
PNS10-503364B	Side of Pole Riser Mount 5'	\$ 243.00
<b>Poles &amp; Anchors Ala Carte</b>		
PNS10-501307	15' Spun Aluminum Pole (Pole Only)	\$ 300.00
PNS10-501310	Pole Base SPTX-1014	\$ 153.00
PNS10-501311	Pole Collar PB-5325	\$ 65.00
PNS10-501310GL	Grounding Lug PB-5378-BRS	\$ 17.00
PNS10-501312	Anchor Bolts Pelco 5306-GLV	\$ 35.00
PNS10-501312GR	Grounding Rod with Clamp and Wire	\$ 48.00
PNS10-501309M	Pole Cap PB-5402	\$ 12.00
<b>Signal LED and Wiring Ala Carte</b>		
PNS10-502463-8W	12" Amber DC 8 Watt LED IL (1, 2 or 3 per flasher) To Match Existing LED's ONLY	\$ 85.00
PNS10-503375NS	Mounting Hdwre Pelco SE-5053-ALO Single	\$ 51.00
PNS10-503375NSB	Mounting Hdwre Pelco SE-5053-ALO Single Black Powdercoat	\$ 51.00
PNS10-503375SSC	Mounting Hdwre Pelco SE-5186-ALO Side by Side	\$ 103.00
PNS10-501304	Signal Closure Kit Yellow	\$ 4.00
PNS10-501304B	Signal Closure Kit Black	\$ 4.00
PNS10-504580S	Signal Wiring Kit	\$ 21.00
PNS10-501422BPL	One Section Black Poly 12" Backplate (Louvered)	\$ 48.00
PNS10-501422BP	One Section Black Poly 12" Backplate (non Louvered)	\$ 47.00
<b>TR4's</b>		
PNS10-501661F4	TR4 GPS Time Reference (includes GPS Receiver, Power Cord and Wiring Harness)	\$ 616.00
PNS10-501532	GPS Receiver Only	\$ 221.00
PNS10-501661-4MDOT	TR4 GPS Time Reference for Missouri DOT (add 501532M)	\$ 371.00
PNS10-501532M	GPS Receiver Only for Missouri DOT	\$ 221.00
PNS10-501661-4K	TR4 Time Reference (W/O GPS)	\$ 328.00
PNS10-502586	TR4 72" Harness to GPS Receiver	\$ 42.00

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PNS10-502585	TR4 72" Harness and Power Cord	\$ 43.00
PNS10-505495T	Processor Chip Upgrade (TR3 to TR4)	\$ 23.00
PNS10-501664	GPS Remote Mounting Assembly	\$ 326.00
	<b>Other</b>	
PNS10-501610P	Opticom IR Emitter Reader with Soft Side Pouch	\$ 569.00
PNS10-506440	Hardshell Pelican Case for Reader	\$ 137.00
PNS10-500632	Gate Opener Board for Opticom Gate Opener	\$ 237.00
	<b>RTC Installation Labor (CTC)</b>	
CTCINSTALL	Fire Station Warning System 8 hours \$260 per hour	\$ 2,080.00
CTCINSTALL	15' Pole Installation – Screw in Anchor or Bolts 4 Hours \$260 per hour	\$ 1,040.00
CTCINSTALL	Signal Cabinet Install TS/1 & TS/2 8 Hours \$210 per hour	\$ 1,680.00
	<b>RTC Repairs (does NOT include Pager on CPR2102)</b>	
PNS10-AP22 REP1-5	AP22 or CPR2102 Time Switch Repair Year 1-5 (Non Warranty)	\$ 125.00
PNS10-AP22 REP6	AP22 or CPR2102 Time Switch Repair Year 6	\$ 216.00
PNS10-AP22 REP7	AP22 or CPR2102 Time Switch Repair Year 7	\$ 259.00
PNS10-AP22 REP8	AP22 or CPR2102 Time Switch Repair Year 8	\$ 302.00
PNS10-AP22 REP9	AP22 or CPR2102 Time Switch Repair Year 9	\$ 345.00
PNS10-AP22 REP10	AP22 or CPR2102 Time Switch Repair Year 10	\$ 387.00
PNS10-CPRREPPG	CPR 2102 Pager Replacement ADD on to any repair	\$ 150.00
PNS10-AP22 REP1-5	AP22 Time Switch Repair Year 1-5 (Non Warranty)	\$ 125.00
PNS10-AP21 REP6	AP21 Time Switch Repair Year 6	\$ 160.00
PNS10-AP21 REP7	AP21 Time Switch Repair Year 7	\$ 192.00
PNS10-AP21 REP8	AP21 Time Switch Repair Year 8	\$ 224.00
PNS10-AP21 REP9	AP21 Time Switch Repair Year 9	\$ 256.00
PNS10-AP21 REP10	AP21 Time Switch Repair Year 10	\$ 287.00
	<b>GTT Opticom</b>	
	<b>GTT Opticom IR - Traffic</b>	
110283	Model 794H LED Emitter	\$ 1,030.00
110260	Model 792H Strobe Emitter	\$ 1,030.00
110261	793S Emitter Switch (On/Off Box)	\$ 144.00
110619	Model 762 Phase Selector	\$ 1,868.00
110610-MM	Model 764 Multimode Phase Selector	\$ 2,946.00
110274	Model 462 Phase Selector	\$ 1,384.00
110620	Model 464 Phase Selector	\$ 1,999.00
110245	Model 711 Detector	\$ 479.00
110258	Model 721 Detector	\$ 535.00
110247	Model 722 Detector	\$ 741.00
	<b>Trade In Trade Up Section</b>	
	<b>Only Include the items that are eligible for the discount in this section</b>	
110283	Model 794H LED Emitter	\$ 1,030.00
110260	Model 792H Strobe Emitter	\$ 1,030.00
110261	793S Emitter Switch (On/Off Box)	\$ 144.00
110619	Model 762 Phase Selector	\$ 1,868.00
110610-MM	Model 764 Multimode Phase Selector	\$ 2,946.00
110274	Model 462 Phase Selector	\$ 1,384.00
110620	Model 464 Phase Selector	\$ 1,999.00
110245	Model 711 Detector	\$ 479.00
110258	Model 721 Detector	\$ 535.00
110247	Model 722 Detector	\$ 741.00
GTT Trade In	Trade in Trade Up Discount 20.6248%	20.625%
	<b>GTT Opticom GPS - Traffic</b>	
110610-MM	Model 764 Multimode Phase Selector	\$ 2,946.00
110610-MMEW	Extended Warranty 764 MM Phase Selector	\$ 442.00
110610-CELL	Model 7614 Multimode Phase Selector - Cellular	\$ 3,413.00
110610-CELLEW	Extended Warranty 7614 MM Phase Selector	\$ 512.00
110620	Model 464 Phase Selector	\$ 1,999.00
110620-MMEW	Extended Warranty 464 MM Phase Selector	\$ 479.00
110603-MM	Model 768 Auxiliary Panel	\$ 531.00
110603-MMEW	Extended Warranty 768 Aux Panel	\$ 83.00
110611	3100 GPS Radio Unit (Mast Mount)	\$ 2,840.00
110611-EW	Extended Warranty 3100 GPS Radio	\$ 426.00
110611CAB	3100 GPS Radio Unit (Cabinet Mount)	\$ 2,830.00
110611CAB-EW	Extended Warranty 3100 GPS Radio	\$

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110601	2100 GPS Preemption Vehicle Kit	\$ 3,192.00
110601EW	Extended Warranty 2000 Series Vehicle Kit	\$ 479.00
110617	GPS Intelligreen Fire Station System	\$ 6,012.00
110617EW	GPS Intelligreen 5 Yr Warranty	\$ 902.00
	<b>GTT GPS Subscription Prices per month</b>	
1000-1337-0	Subscription Service per Vehicle	\$ 105.00
1000-1338-0	Subscription Service per Intersection	\$ 171.00
	<b>GTT Opticom Multimode - Traffic</b>	
110610-MM	Model 764 Multimode Phase Selector	\$ 2,946.00
110610-MMEW	Extended Warranty 764 MM Phase Selector	\$ 442.00
110610-CELL	Model 7614 Multimode Phase Selector - Cellular	\$ 3,413.00
110610-CELLEW	Extended Warranty 7614 MM Phase Selector	\$ 512.00
110603-MM	Model 768 Auxiliary Panel	\$ 531.00
110603-MMEW	Extended Warranty 768 Aux Panel	\$ 83.00
110253	Model 755 Four Channel Adapter Card	\$ 54.00
110611	3100 GPS Radio Unit (Mast Mount)	\$ 2,840.00
110611-EW	Extended Warranty 3100 GPS Radio	\$ 426.00
110611CAB	3100 GPS Radio Unit (Cabinet Mount)	\$ 2,830.00
110611CAB-EW	Extended Warranty 3100 GPS Radio	\$ 424.00
110283-MM	Model 794HM Multimode Emitter	\$ 1,031.00
110283-MMEW	Extended Warranty Model 794HM	\$ 155.00
110609	MM Vehicle Kit (2100 GPS VCU/Radio, 794HM, Cable & Hdwre)	\$ 3,675.00
110609EW	Extended Warranty MM Vehicle Kit	\$ 551.00
	<b>GTT Opticom - Transit (Low Priority)</b>	
110269	Model 794T LED Emitter	\$ 1,020.00
110269	Model 792T Strobe Emitter	\$ 1,020.00
110601	2000 Series GPS Preemption Vehicle Kit	\$ 3,192.00
110601EW	Extended Warranty 2000 Series Vehicle Kit	\$ 479.00
110283-MM (Low)	Model 794TM Multimode Emitter	\$ 1,020.00
110283-MMEW	Extended Warranty Model 794HM	\$ 153.00
76-1000-1298-0	4010 Vehicle Computer Kit	\$ 1,733.00
76-1000-1282-0	400 2.4 Ghz Radio/GPS Unit	\$ 1,050.00
76-1000-1242-0	211 Vehicle Interface Cable W/ Dead Reoning	\$ 158.00
	<b>GTT Cable, Mounting &amp; Accessories</b>	
108001	External Mounting Cabinet	\$ 512.00
110216A	Model 138 Cable 500 Ft Roll (Per Ft.)	\$ 0.68
110216B	Model 138 Cable 1,000 Ft Roll (Per Ft.)	\$ 0.68
110216C	Model 138 Cable 2,500 Ft Roll (Per Ft.)	\$ 0.73
110605A	GPS Cable 500 Ft Roll (Per Ft.)	\$ 1.10
110605	GPS Cable 1,000 Ft Roll (Per Ft.)	\$ 1.10
110605C	GPS Cable 2,500 Ft Roll (Per Ft.)	\$ 1.10
201011	3/4" Narrow Hub (IR)	\$ 13.00
101001	Span Wire Clamp	\$ 4.00
201011 (hub)	Mast Arm Mount (GPS)	\$ 83.00
110280	Opticom Software Kit Includes RS232 cable	\$ 1,025.00
100201	Model 380 Card Rack	\$ 172.00
110214	GTT Model 760 Card Rack (Incl. Harness)	\$ 302.00
0	760 Card Rack Harness Only	\$ 71.00
110284	Remote Code Reader (794 Emitters only)	\$ 308.00
PNS10-501610P	Handheld Code Reader (794 Only)	\$ 561.00
110282	Serial Comm Cable RS232 (Emitter Programming)	\$ 21.00
110270	Y Cable (Emitter Programming)	\$ 359.00
0	794/494 & 792/492 Hardware Install Kit	\$ 338.00
110271	794/494 & 792/492 Emitter Cable Assy.	\$ 82.00
110613	Gps Radio Antenna 1050 White	\$ 205.00
110613A	Gps Radio Antenna 1050 Black	\$ 205.00
110615	GPS Vehicle Interface Cable	\$ 167.00
	<b>GTT Software</b>	
0	CMS Software for Five Intersections	\$ 750.00
0	CMS Annual Maintenance for Five Intersections	\$ 113.00
0	Analytics Software Setup Charge	\$ 7,380.00
0	Analytics Software Per Vehicle	\$ 123.00
	<b>GTT Gate Opener Kit</b>	

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200201B	721 Gate Opener Kit includes 721 Detector, 462 Phase selector, RTC 380 Card Rack with 100 ft of 138 Cable, Narrow Hub	\$ 2,740.00
	<b>GTT Installation and Health Check Labor (CTC)</b>	
CTCINSTALL	GPS Opticom Intersection 5 hours \$260 per hour	\$ 1,300.00
CTCINSTALL	IR Intersection 4 direction 10 hours \$260 per hour	\$ 2,600.00
CTCINSTALL	IR Diamond Intersection 12 hours \$260 per hour	\$ 3,120.00
CTCINSTALL	GPS Diamond Intersection* 5 hours \$260 per hour (requires site visit)	\$ 1,300.00
CTCINSTALL	IR Emitter Install 4 hours \$130 per hour	\$ 520.00
CTCINSTALL	GPS/Multimode Vehicle kit 5 hours \$130 per hour	\$ 650.00
CTCINSTALL	Intelligreen System/RTC System FSW 8 hours \$260 per hour	\$ 2,080.00
CTCINSTALL	Opticom Initial HealthCheck per Intersection	\$ 75.00
CTCINSTALL	Opticom Annual Maintenance per Intersection	\$ 230.00
	<b>GTT Canoga</b>	
	<b>GTT Canoga Note: Measurement and Carriers and install need to be included wit any quote of Canoga Microloops</b>	
110330	9004 Four Channel Card (Two Lanes Speed and Length)	\$ 675.00
111501	1000 ft Spool Home run cable per FT	\$ 0.70
78-8114-5717-1	Installaton Kit 702 Non invasive Microloop	\$ 118.00
78-8114-5707-2	Installaton Kit 7002 Non-Invasive Microloop	\$ 67.00
78-8118-6123-2	Carrier Package@ 25 Units 702 Non Invasive Microloops	\$ 182.00
78-8118-6124-0	Carrier Package@ 50 Units 702 Non Invasive Microloops	\$ 364.00
75-0301-3114-0	701-1 Single Microlooop with 75 ft Cable	\$ 202.00
75-0301-3115-7	701-1 Single Microlooop with 150 ft Cable	\$ 235.00
75-0301-3116-5	701-1 Single Microlooop with 250 ft Cable	\$ 278.00
75-0301-3117-3	701-1 Single Microlooop with 500 ft Cable	\$ 388.00
75-0301-3118-1	701-1 Single Microlooop with 1000 ft Cable	\$ 608.00
75-0301-3119-9	701-2 Double Microlooop with 75 ft Cable	\$ 373.00
75-0301-3120-7	701-2 Double Microlooop with 150 ft Cable	\$ 406.00
75-0301-3121-5	701-2 Double Microlooop with 250 ft Cable	\$ 450.00
75-0301-3122-3	701-2 Double Microlooop with 500 ft Cable	\$ 560.00
75-0301-3123-1	701-2 Double Microlooop with 1000 ft Cable	\$ 780.00
	<b>Polara Pushbuttons and APS</b>	
	<b>Ped Detection Push Buttons (Std.) Polara Bulldog</b>	
	<b>Bulldog Buttons &amp; Misc</b>	
87-BDL3-Y	Bulldog Button Yellow	\$ 75.00
87-BDL3-B	Bulldog Button Black	\$ 75.00
871003-014-Y	Bulldog Button Yellow (TS1 Only)	\$ 75.00
871003-014-B	Bulldog Button Black (TS1 Only)	\$ 75.00
87-BDL3-010-Y	Bulldog Button NO LED Yellow	\$ 79.00
87-BDL3-010-B	Bulldog Button NO LED Black	\$ 79.00
87-BDL3AL-Y	Bulldog Button Yellow - Left Arrow	\$ 86.00
87-BDL3AL-B	Bulldog Button Black - Left Arrow	\$ 86.00
87-BDL3AR-Y	Bulldog Button Yellow - Right Arrow	\$ 86.00
87-BDL3AR-B	Bulldog Button Black - Right Arrow	\$ 86.00
87-BDPM3-Y	Bulldog Pole Universal Mount Yellow	\$ 12.00
87-BDPM3-B	Bulldog Pole Universal Mount Black	\$ 12.00
87-APBC-Y	Bulldog Pushbutton Cup Aluminum Yellow	\$ 12.00
87-APBC-B	Bulldog Pushbutton Cup Aluminum Black	\$ 12.00
ie. (87-BDL3CE-Y)	Bulldog One Time Custom Etching Fee (Add CE to Part number)	\$ 200.00
87-RBDSP-014-Y-4H	Rectangular Bulldog Button Yellow	\$ 81.00
87-RBDSP-014-B-4H	Rectangular Bulldog Button Black	\$ 81.00
	<b>Bulldog 5X7</b>	
871011-Y	5x7 Bulldog Button Frame Yellow	\$ 39.00
871011-B	5x7 Bulldog Button Frame Black	\$ 39.00
87-PBFA9X12-B	5x7 Coversion to 9X12 Bulldog Backplate Black	\$ 17.00
87-PBFA9X12-Y	5x7 Coversion to 9X12 Bulldog Backplate Yellow	\$ 17.00
87-PBFA9X15-B	5x7 Coversion to 9X15 Bulldog Backplate Black	\$ 21.00
87-PBFA9X15-Y	5x7 Coversion to 9X15 Bulldog Backplate Yellow	\$ 21.00
87-800-87	5x7 Reversible Sign (Hand Man) Option A	\$ 13.00
87-800-88	5x7 Bidirectional Sign (Hand Man) Option A	\$ 13.00
87-800-59	5x7 Reversible Sign (Flashing Hand) Option B	\$ 15.00

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87-800-63	5x7 Bidirectional Sign (Flashing Hand) Option B	\$ 15.00
	<b>Bulldog 9X12</b>	
871012-Y	9X12 Bulldog Button Frame Yellow	\$ 56.00
871012-B	9X12 Bulldog Button Frame Black	\$ 56.00
871019	9X12 Reversible Sign (Flashing Hand R10-3B) Option U	\$ 24.00
87-800-72	9X12 Bidirectional Sign (Flashing Hand R10-3B) Option U	\$ 16.00
87-800-67	9X12 Reversible Sign (International) Option D	\$ 17.00
87-800-70	9X12 Bidirectional Sign (International) Option D	\$ 17.00
87-800-85	9X12 Reversible Sign (Countdown R10-3E) Option C	\$ 17.00
87-800-90	9X12 Bidirectional Sign (Countdown R10-3E) Option C	\$ 17.00
87-800H-86	9X12 Reversible Sign (MUTCD R10-3) Option V	\$ 19.00
87-800H-89	9X12 Bidirectional Sign (MUTCD R10-3) Option V	\$ 13.00
	<b>Bulldog 9X15</b>	
87-PBF9X15-Y	9X15 Bulldog Button Frame Yellow	\$ 59.00
87-PBF9X15-B	9X15 Bulldog Button Frame Black	\$ 59.00
87-800H-84	9X15 Reversible Sign (Countdown R10-3E) Option T	\$ 30.00
87-800H-99	9X15 Bidirectional Sign (Countdown R10-3E) Option T	\$ 20.00
	<b>Bulldog Push Button Control Units &amp; Accessories</b>	\$ -
87-PBCU	Push Button Control Unit A/C Powered	\$ 268.00
87-PBCU-DC	Push Button Control Unit D/C Powered	\$ 301.00
87-PBCUHK-12	PBCU Hardware Kit 12' Cable (6 and 15 ft discontinued)	\$ 72.00
87-BDPM3-B	Bulldog Pole Mount - Black	\$ 12.00
87-BDPM3-Y	Bulldog Pole Mount - Yellow	\$ 12.00
87-PA-iB	Pelco Poly Adaptor - Black	\$ 12.00
87-PA-iY	Pelco Poly Adaptor - Yellow	\$ 12.00
87-PBC-B	Push Button Cup - Black	\$ 12.00
87-PBC-Y	Push Button Cup - Yellow	\$ 12.00
87-PBFE-06	Push Button Frame Pole Extender 6"	\$ 87.00
87-PBFE-12	Push Button Frame Pole Extender 12"	\$ 95.00
87-PBFS4.5X2-B	PBF Adapter for 2 Frames on one 4.5" Pole (all sizes) Black	\$ 78.00
87-PBFS4.5X2-Y	PBF Adapter for 2 Frames on one 4.5" Pole (all sizes) Yellow	\$ 78.00
	<b>2 Wire Navigator Control Unit NO LONGER ON PRICE LIST!!!</b>	
87-CCU2EN	CCU (Add Hardware Kit if needed)	\$ 2,285.00
87-CCU2EN	CCU Including 6' Cable Hardware Kit	\$ 2,518.00
87-CCU2ENHK	CCU Hardware Kit (6' cable)	\$ 233.00
87-CCU2ENHK-8	CCU Hardware Kit (8' cable)	\$ 243.00
87-CCU2ENHK-12	CCU Hardware Kit (12' cable)	\$ 280.00
87-850-186	1st GEN Circuit Board (Replacement Part)	\$ 87.00
87-850-317	Latest GEN Circuit Board (Replacement Part)	\$ 67.00
87-850-217	CCU Cable Harness Assy (Replacement Part)	\$ 167.00
87-850-172	CCU Wall Mount Kit	\$ 21.00
	<b>iNS2 (SDLC Connector) 2 Wire Intellegent APS, (Base is always Black)</b>	
87 - ICCU-S2+SDLCCP	ICCU - Shelf Model Including Hardware Kit, Power Supply and ICB	\$ 2,335.00
87 - ICCU-C2+SDLCCP	ICCU - Rack Mount Including Hardware Kit, Power Supply and ICB	\$ 2,342.00
87 - ICCU-B	ICCU - BIU Model Including Hardware Kit, Power Supply and ICB	\$ 2,222.00
87 - ICCU-SHK	ICCU - Shelf Model Hardware Kit Only	\$ 239.00
87 - ICCU-CHK	ICCU - Rack Mount Hardware Kit Only	\$ 246.00
87 - ICCU-BHK	ICCU - BIU Model Hardware Kit Only	\$ 280.00
	<b>iNS (50 Pin connector) 2 Wire Intellegent APS, (Base is always Black)</b>	
87 - ICCU-S+SDLCCP	ICCU - Shelf Model Including Hardware Kit, Power Supply and ICB	\$ 2,335.00
87 - ICCU-C+SDLCCP	ICCU - Rack Mount Including Hardware Kit, Power Supply and ICB	\$ 2,342.00
87 - ICCU-B	ICCU - BIU Model Including Hardware Kit, Power Supply and ICB	\$ 2,222.00
87 - ICCU-SHK	ICCU - Shelf Model Hardware Kit Only	\$ 239.00
87 - ICCU-CHK	ICCU - Rack Mount Hardware Kit Only	\$ 246.00
87 - ICCU-BHK	ICCU - BIU Model Hardware Kit Only	\$ 280.00
	<b>iNS2 APS Miscellaneous</b>	
87-iNS2-SUB	iNS2 Setup box	\$ 308.00
cust msg	Custom Message	\$ 25.00
Braille	Braille on Plastic Plate with Adhesive Back	\$ 40.00
87-Add -NA	No Arrow Button (Sign has arrow)	\$ 27.00
87-Add -BD	Bidirectional Button Add On	\$ 27.00
87-Add -ES	External Speaker Option (allow 8-10 weeks delivery)	\$ 86.00



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	<b>iN Button Diaphragm Replacement Assemblies</b>	
87-850-372-1	Button Diaphragm Right or Left Arrow	\$ 23.00
87-850-372-3	Button Diaphragm Bidirectional Arrow	\$ 33.00
87-850-372-4	Button Diaphragm No Arrow	\$ 33.00
	<b>iNS2 and iDetect 5X7 Including 800-59 Reversible Sign</b>	
87-iDS25ENO-Y	5X7 iDetect S2 APS Push Button Station Black/Yellow	\$ 371.00
87-iDS25ENO-B	5X7 iDetect S2 APS Push Button Station Black/Black	\$ 371.00
87-iNS25ANO-Y	5X7 iNS2 APS Push Button Station Black/Yellow	\$ 353.00
87-iNS25ANO-B	5X7 iNS2 APS Push Button Station Black/Black	\$ 353.00
87-800-59	5x7 Reversible Sign (Flashing Hand) Option B	\$ 15.00
87-800-63	5x7 Bidirectional Sign (Flashing Hand) Option B	\$ 15.00
87-800H-86	5x7 Reversible Sign (Hand Man) Option A	\$ 13.00
87-800H-89	5x7 Bidirectional Sign (Hand Man) Option A	\$ 13.00
	<b>iNS2 and iDetect 9X12 Including 800-85 Reversible Sign</b>	
87-iDS29RNO-Y	9X12 iDetect S2 APS Push Button Station Black/Yellow	\$ 408.00
87-iDS29RNO-B	9X12 iDetect S2 APS Push Button Station Black/Black	\$ 408.00
87-iNS29UNO-Y	9X12 iNS2 APS Push Button Station Black/Yellow	\$ 389.00
87-iNS29UNO-B	9X12 iNS2 APS Push Button Station Black/Black	\$ 389.00
87-800H-69	9X12 Reversible Sign (Flashing Hand) Option U	\$ 24.00
87-800H-72	9X12 Bidirectional Sign (Flashing Hand) Option U	\$ 16.00
87-800-85	9X12 Reversible Sign (Countdown) Option C	\$ 17.00
87-800-90	9X12 Bidirectional Sign (Countdown) Option C	\$ 17.00
	<b>iNS2 and iDetect 9X15 Including 800H-84 Reversible Sign</b>	
87-iDS23RNO-Y	9X15 iDetect S2 APS Push Button Station Black/Yellow	\$ 416.00
87-iDS23RNO-B	9X15 iDetect S2 APS Push Button Station Black/Black	\$ 416.00
87-iNS23TNO-Y	9X15 iNS2 APS Push Button Station Black/Yellow	\$ 397.00
87-iNS23TNO-B	9X15 iNS2 APS Push Button Station Black/Black	\$ 397.00
87-800H-84	9X15 Reversible Sign (Countdown) Option C	\$ 30.00
87-800H-99	9X15 Bidirectional Sign (Countdown) Option C	\$ 20.00
87-87-7YR	Extended Warranty to 7 years (Put a 1 in Quantity Box)	12%
	<b>4 Wire Ped Head Control Unit</b>	
87-PHCU4W	PHCU (Need one per pushbutton)(Add Cable)	\$ 206.00
87-850-288-12	PHCU Interconnect Cable 12'	\$ 15.00
87-850-288-25	PHCU Interconnect Cable 25'	\$ 35.00
87-HK-011	PHCU4W Bracket Kit	\$ 7.00
	<b>iNS3 3 Wire Intellegent APS, (Base is always Black)</b>	
	<b>iNS3 APS Miscellaneous</b>	
87-iNS3-SUB	iNS3 Setup box	\$ 308.00
cust msg	Custom Message	\$ 25.00
Braille	Braille on Plastic Plate with Adhesive Back	\$ 40.00
87-Add -NA	No Arrow Button (Sign has arrow)	\$ 27.00
87-Add -BD	Bidirectional Button Add On	\$ 27.00
87-Add -ES	External Speaker Option (allow 8-10 weeks delivery)	\$ 86.00
87-iPHCU3W	Ped Head Control Unit (1 per Push Button)	\$ 214.00
87-iNS3-CABLE-12	12' interconnect Cable (1 per Control Unit)	\$ 15.00
87-iNS3-CABLE-15	15' interconnect Cable (1 per Control Unit)	\$ 31.00
87-iN-DGL	iNAV Bluetooth Dongle	\$ 60.00
87-iN-CCK-X	iNAV Color Change Kit (incl lid, exc screws)	\$ 87.00
87-iN- 90DEGADPTR-6	90 Degree Reach or Orientation Adaptor - 6 inch	\$ 113.00
87-iN- 90DEGADPTR-12	91 Degree Reach or Orientation Adaptor - 12 inch	\$ 113.00
	<b>iN Button Diaphragm Replacement Assemblies</b>	
87-850-372-1	Button Diaphragm Right or Left Arrow	\$ 23.00
87-850-372-3	Button Diaphragm Bidirectional Arrow	\$ 33.00
87-850-372-4	Button Diaphragm No Arrow	\$ 33.00
	<b>iNS3 and iDetect 5X7 Including 800-59 Reversible Sign</b>	
87-iDS35ENO-Y	5X7 iDetect S2 APS Push Button Station Black/Yellow	\$ 365.00
87-iDS35ENO-B	5X7 iDetect S2 APS Push Button Station Black/Black	\$ 365.00
87-iNS35ANO-Y	5X7 iNS3 APS Push Button Station Black/Yellow	\$ 339.00
87-iNS35ANO-B	5X7 iNS3 APS Push Button Station Black/Black	\$ 339.00
87-800-59	5x7 Reversible Sign (Flashing Hand) Option B	\$ 15.00
87-800-63	5x7 Bidirectional Sign (Flashing Hand) Option B	\$ 15.00
87-800H-86	5x7 Reversible Sign (Hand Man) Option A	\$ 13.00
87-800H-89	5x7 Bidirectional Sign (Hand Man) Option A	\$

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	<b>iNS3 and iDetect 9X12 Including 800-85 Reversible Sign</b>	
87-iDS39RNO-Y	9X12 iDetect S2 APS Push Button Station Black/Yellow	\$ 401.00
87-iDS39RNO-B	9X12 iDetect S2 APS Push Button Station Black/Black	\$ 401.00
87-iNS39UNO-Y	9X12 iNS3 APS Push Button Station Black/Yellow	\$ 375.00
87-iNS39UNO-B	9X12 iNS3 APS Push Button Station Black/Black	\$ 375.00
87-800H-69	9X12 Reversible Sign (Flashing Hand) Option U	\$ 24.00
87-800H-72	9X12 Bidirectional Sign (Flashing Hand) Option U	\$ 16.00
87-800-85	9X12 Reversible Sign (Countdown) Option C	\$ 17.00
87-800-90	9X12 Bidirectional Sign (Countdown) Option C	\$ 17.00
	<b>iNS3 and iDetect 9X15 Including 800H-84 Reversible Sign</b>	
87-iDS33RNO-Y	9X12 iDetect S2 APS Push Button Station Black/Yellow	\$ 411.00
87-iDS33RNO-B	9X12 iDetect S2 APS Push Button Station Black/Black	\$ 411.00
87-iNS33TNO-Y	9X15 iNS3 APS Push Button Station Black/Yellow	\$ 383.00
87-iNS33TNO-B	9X15 iNS3 APS Push Button Station Black/Black	\$ 383.00
87-800H-84	9X15 Reversible Sign (Countdown) Option C	\$ 30.00
87-800H-99	9X15 Bidirectional Sign (Countdown) Option C	\$ 20.00
	<b>Ped Detection Push Buttons (APS) Polara Navigator</b>	
	<b>APS Miscellaneous</b>	
87-ECONFIG	EZ Comm Configurator	\$ 295.00
cust msg	Custom Message	\$ 25.00
Braile	Braile on Plastic Plate with Adhesive Back	\$ 40.00
87-Add -NA	No Arrow Button (Sign has arrow)	\$ 27.00
87-850-275	Preemption Adapter for Opticom 500 or 700 series	\$ 129.00
87-850-390	Custom Cable Harness Assembly in CCU2ENHK-8( Cable #3, 8' for Preemption	\$ 177.00
87-NPA4X2-X	Pole Adapter for two 9x12 or 9x15 Navs on one pole	\$ 85.00
87-NPA-B-FP	Pole Adapter for Fluted Pole (Black only)	\$ 60.00
87-EZ523-06	Navigator Pole Extender 6" (Galvanized Only)	\$ 87.00
87-EZ523-12	Navigator Pole Extender 12" (Galvanized Only)	\$ 95.00
	<b>Navigator 5X7 Including 800-59 Reversible Sign</b>	
87-EN25BNO-Y	5X7 Navigator Button (2 Wire) Yellow/Black	\$ 340.00
87-EN25BNO-PY	5X7 Navigator Button (2 Wire) Yellow/Yellow	\$ 367.00
87-EN25BNO-B	5X7 Navigator Button (2 Wire) Black/Black	\$ 340.00
87-EN45BNO-Y	5X7 Navigator Button (4 Wire) Yellow/Black	\$ 340.00
87-EN45BNO-PY	5X7 Navigator Button (4 Wire) Yellow/Yellow	\$ 367.00
87-EN45BNO-B	5X7 Navigator Button (4 Wire) Black/Black	\$ 340.00
87-800-59	5x7 Reversible Sign (Flashing Hand) Option B	\$ 15.00
87-800-63	5x7 Bidirectional Sign (Flashing Hand) Option B	\$ 15.00
87-800H-86	5x7 Reversible Sign (Hand Man) Option A	\$ 13.00
87-800H-89	5x7 Bidirectional Sign (Hand Man) Option A	\$ 13.00
	<b>Navigator 9X12 Including 800-85 Reversible Sign</b>	
87-EN29CNO-Y	9X12 Navigator Button (2 Wire) Yellow/Black	\$ 375.00
87-EN29CNO-PY	9X12 Navigator Button (2 Wire) Yellow/Yellow	\$ 402.00
87-EN29CNO-B	9X12 Navigator Button (2 Wire) Black/Black	\$ 375.00
87-EN49CNO-Y	9X12 Navigator Button (4 Wire) Yellow/Black	\$ 375.00
87-EN49CNO-PY	9X12 Navigator Button (4 Wire) Yellow/Yellow	\$ 402.00
87-EN49CNO-B	9X12 Navigator Button (4 Wire) Black/Black	\$ 375.00
87-800H-69	9X12 Reversible Sign (Flashing Hand) Option U	\$ 24.00
87-800H-72	9X12 Bidirectional Sign (Flashing Hand) Option U	\$ 16.00
87-800-85	9X12 Reversible Sign (Countdown) Option C	\$ 17.00
87-800-90	9X12 Bidirectional Sign (Countdown) Option C	\$ -
	<b>Navigator 9X15 Including 800H-84 Reversible Sign</b>	
87-EN23TNO-Y	9X15 Navigator Button (2 Wire) Yellow/Black	\$ 383.00
87-EN23TNO-PY	9X15 Navigator Button (2 Wire) Yellow/Yellow	\$ 409.00
87-EN23TNO-B	9X15 Navigator Button (2 Wire) Black/Black	\$ 383.00
87-EN43TNO-Y	9X15 Navigator Button (4 Wire) Yellow/Black	\$ 383.00
87-EN43TNO-PY	9X15 Navigator Button (4 Wire) Yellow/Yellow	\$ 409.00
87-EN43TNO-B	9X15 Navigator Button (4 Wire) Black/Black	\$ 383.00
87-800H-84	9X15 Reversible Sign (Countdown) Option C	\$ 30.00
87-800H-99	9X15 Bidirectional Sign (Countdown) Option C	\$ 20.00
	<b>Model X Pedestrian Crossing</b>	
	<b>INX (No Controller Required)</b>	
87-iNX9WNO-Y	9X12 APS Push Button Station Black/Yellow	\$ 375.00
87-iNX9WNO-B	9X12 APS Push Button Station Black/Black	\$ 375.00
87-iDX9WNO-Y	9X12 iDetect APS Push Button Station Black/Yellow	\$ 401.00
87-iDX9WNO-B	9X12 iDetect APS Push Button Station Black/Black	\$ 401.00

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	<b>Ped Signals (Countdown)</b>	
	<b>Ped Heads</b>	
190006	Ped Head Poly Yellow	\$ 55.00
190109	Ped Head Aluminum Yellow drilled Left	\$ 90.00
191106	Ped Head Poly Black	\$ 55.00
191109	Ped Head Alum Black drilled left	\$ 90.00
	<b>Ped Heads with Clamshells</b>	
190110	16" Ped Head Aluminum Yellow with Clamshell	\$ 146.00
191110	16" Ped Head Aluminum Black With Clamshell	\$ 143.00
	<b>Clamshells</b>	
190006C	Aluminum Clamshell Yellow	\$ 56.00
191109C	Aluminum Clamshell Black	\$ 53.00
	<b>Astro Bracs for Ped Heads</b>	
20AS-0157-96	1W Ped Head (96" Cable)	\$ 155.00
20AS-0158-96	2W Ped Head (96" Cable)	\$ 256.00
0	Paint Adder For Assy (Add Color code Pxx)	\$ 21.00
	<b>Leotek LED's for Ped Heads</b>	
821002-IL-TXD	16" Countdown Ped	\$ 143.00
821002 48V	16" Countdown Ped (48 Volt DC)	\$ 137.00
	<b>Ped Pole Assembly (Greater than 5' Pole)</b>	
	<b>Anchors, Poles, Bases and Collars</b>	
201018	Anchor Bolts	\$ 33.00
20PB-5364	4" Screw in Anchor	\$ 284.00
300008	8" Screw in Anchor	\$ 492.00
201502	Square Base	\$ 146.00
Paint Adder	Paint for Base	\$ 26.00
PB-5303-PNC	2 Piece Dec Cover	\$ 129.00
20PB-5378	Grounding Lug PB-5378-BRS	\$ 16.00
PNS-10-501312GR	Grounding Rod with Clamp and Wire	\$ 46.00
201020	Collar	\$ 62.00
PB-5325-PXX	Collar Paint	\$ 10.00
PB-5325-PXX	Painted Collar	\$ 72.00
201001	10' Aluminum Pole	\$ 191.00
201001B	10' Aluminum Pole (Paint)	\$ 225.00
PB-5100-11-PNC	11' Aluminum Pole	\$ 210.00
PB-5100-11-PXX	11' Aluminum Pole (Paint)	\$ 248.00
201022	12' Aluminum Pole	\$ 236.00
201022B	12' Aluminum Pole (Paint)	\$ 277.00
201043-13	13' Aluminum Pole	\$ 255.00
201524	14' Aluminum Pole	\$ 266.00
201043	15' Aluminum Pole	\$ 286.00
201043B	15' Aluminum Pole (Paint)	\$ 337.00
201043-16	16' Aluminum Pole	\$ 304.00
201043-17	17' Aluminum Pole	\$ 334.00
201043-18	18' Aluminum Pole	\$ 352.00
201071	20' Aluminum Pole	\$ 379.00
PB-5200-10-GLV	Steel Pole 10'	\$ 196.00
PB-5201-10-PXX	Steel 10' Pole (Paint)	\$ 230.00
201041-15	Steel 15' Pole	\$ 315.00
PB-5200-15-GLV-PXX	Steel 15' Pole (Paint)	\$ 366.00
201007	Cap	\$ 11.00
PB-5402-PNC	Cap-Painted	\$ 18.00
Paint Adder	Paint for pole (per ft)	\$ 3.00
	<b>Ped Pushbutton Pole (5' or Less Pole)</b>	
	<b>Anchors, Poles, Bases and Collars</b>	
201018	Anchor Bolts	\$ 33.00
20PB-5364	4" Screw in Anchor	\$ 284.00
300008	8" Screw in Anchor	\$ 492.00
201502	Square Base	\$ 146.00
Paint Adder	Paint for Base	\$ 26.00
PB-5303-PNC	2 Piece Dec Cover	\$ 129.00
20PB-5378	Grounding Lug PB-5378-BRS	\$ 16.00
PNS-10-501312GR	Grounding Rod with Clamp and Wire	\$ 46.00
201020	Collar	\$ 62.00
PB-5325-PXX	Collar Paint	\$ 10.00



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PB-5325-PXX	Painted Collar	\$ 72.00
201120-4	4' Aluminum Pole	\$ 86.00
201043-5	5' Aluminum Pole	\$ 97.00
PB-5200-04-GLV	Steel 4' Pole	\$ 92.00
PB-5201-05-GLV	Steel 5' Pole	\$ 117.00
PB-5201-05-PXX	Steel 5' Pole (paint)	\$ 133.00
201007	Cap	\$ 11.00
Paint Adder	Cap-Painted	\$ 18.00
Paint Adder	Paint for pole (per ft)	\$ 3.00
	<b>Polara Installion Labor (CTC)</b>	
CTCINSTALL	APS Install (8 Navigators and CCU,No Wire Pulling) 8 Hours \$125 per hour	\$ 1,000.00
CTCINSTALL	APS Install (8 Navigators and CCU,With Wire Pulling) 8 Hours \$125 per hour and 8 hours \$210	\$ 2,680.00
CTCINSTALL	15' Pole Installation – Screw in Anchor or Bolts 4 Hours \$260 per hour	\$ 1,040.00
	<b>MH Corbin Traffic Counters &amp; Measuring Equip</b>	
	<b>NC350 Traffic Analyzers</b>	
121877-350	Portable Traffic Analyzer NC350 Includes: Manual, Battery Charger w/US Plug	\$ 1,295.00
121877COVER	Protective Cover	\$ 165.00
121877CABLE	Interface Cable Assembly - USB	\$ 190.00
121877-300SFT	Highway Data Management Software (HDM -Full Verison)	\$ 1,100.00
70700052	Highway Data Management Software (HDM -Full Verison, Discounted if customer has previous version)	\$ 450.00
90300204	Poly Bags - Protective (package of 100)	\$ 35.00
70002031	Protective Cover Installation Kit- ASPHALT (Includes: 500 washers, screws, 5 bits)	\$ 380.00
70002030	Protective Cover Installation Kit- CONCRETE (Includes: 500 washers, screws, 5 bits)	\$ 350.00
121877CHARGER	Charger, NC300/NC200, 110 VAC, US Plug	\$ 55.00
60002100	Charger, NC300/NC200, 220 VAC, Euro Plug	\$ 55.00
121877BATTERY	NC200 Replacement Battery	\$ 150.00
660101	Tapecoat Roll (12 inches x 150 feet)	\$ 374.00
	<b>Nitestar Distance Measuring Equipment</b>	
120659	GPS-DMI Pro (Includes GPS Unit, OBDII Cable, Display Cable, Garmin Antenna, Velcor Carrying Case)	\$ 995.00
120657	NS-50 NiteStar Distance Measuring Instrument	\$ 405.00
120668	NS-60 NiteStar Distance Measuring Instrument ( RS-232 Port to connect to GPS)	\$ 560.00
120657-SS10	SS-10 Electronic Interface	\$ 208.00
120657-CABLEKIT	SS10 Standard Cable Kit (Includes: Sensor to NS Cable, and Sensor to Vehicle Cable. " Standard "Cables)	\$ 70.00
120608	1082 Wheel Proximity Sensor	\$ 175.00
120608	1082F Wheel Proximity Sensor with U-Bolt	\$ 180.00
70004150	1030 Wiring Harness, to be used with the proximity sensor (Includes: Wiring Harness, Terminal Block, Fuse, etc.)	\$ 60.00
120655	OBD-II Interface Adapter DMI VDT Accessory	\$ 465.00
120615	NS-50/60 Mounting Bracket	\$ 38.00
70004065	1080 Transmission Sensor	\$ 145.00
120611	Target Kit (10 Targets) Use with 1084 Proximity Sensor	\$ 95.00
120658	Survey Data Management Software (SDM) Package on CD.	\$ 465.00
120653	RS-232 Cable 1023, needed for use with SDM Software	\$ 40.00
	<b>Etherwan Ethernet Switches</b>	
	<b>Managed Hardened Switches:</b>	
EG97244-4VCR	Hardened (-40°C - 75°C) Managed 28 Port Layer 3 Ethernet Switch, 28 GE Ports (8 GE RJ45 + 16 GE 100/1000 SFP Ports) + 4 1G/10G SFP+ Ports, Rack Mount, Redundant Internal Universal 100-240VAC Power Supply, IEC Power Connector	\$ 11,020.00
EX71802-0VB	Hardened (-40°C - 75°C) Managed Ethernet Switch with 8 10/100TX Ports + 2 Gigabit SFP Slots. DIN Rail or Panel Mount. Terminal Block or DC Jack Power Connector (12VDC - 48VDC).	\$ 1,134.00
EX73921-0VB	Hardened (-40°C - 75°C) Managed 12 Port LL3 Gigabit Ethernet Switch with 8 GE Ports + 4 1000Base SFP ports. DIN RAIL Mount, Terminal Block Power Input 12 - 48VDC, power supply sold separately. (LL3 - Light Layer 3 Option Available)	\$ 1,679.00

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EX73922E-0VB	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet Switch with 8 Gigabit Ethernet Ports + 2 100/1000Base SFP ports. DIN-Rail Mount, Terminal Block Redundant Power Input 12-48VDC, power supply sold separately.	\$ 1,299.00
EX73922E-0VB-CC	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet Switch with 8 Gigabit Ethernet Ports + 2 100/1000Base SFP ports. DIN-Rail Mount, Terminal Block Redundant Power Input 12-48VDC, power supply sold separately. (With Conformal Coating)	\$ 1,749.00
EX73924E-0VB	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet Switch with 8 Gigabit Ethernet Ports + 4 100/1000Base SFP ports. DIN-Rail Mount, Terminal Block Redundant Power Input 12-48VDC, power supply sold separately.	\$ 1,399.00
EX73931-0VB	Hardened (-40°C - 75°C) Managed 16 Port LL3 Gigabit Ethernet Switch with 12 GE Ports + 4 1000Base SFP ports. DIN RAIL Mount, Terminal Block Power Input 12 - 48VDC, power supply sold separately. (LL3 - Light Layer 3 Option Available)	\$ 1,941.00
EX77064-V0VC	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 24 100FX Fiber Ports + 4 Gigabit / SFP Combo Ports. Rack Mount with Internal Universal Power Supply, 90VAC-264VAC.	\$ 3,045.00
EX75960-0VTU	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 24 10/100/1000BASE-TX 802.3bt PoE ports + 4 1G SFP Ports. Rack Mount, Terminal Block 52-57VDC Redundant Power Inputs.	\$ 2,749.00
EX75964-0VTU	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 24 10/100/1000BASE-TX 802.3bt PoE ports + 4 1G/10G SFP+ Ports. Rack Mount, Terminal Block 52-57VDC Redundant Power Inputs.	\$ 2,999.00
EX77244-V0VC	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 8 Port 10/100 + 16 100FX Fiber Ports + 4 Gigabit / SFP Combo Ports. Rack Mount with Internal Universal Power Supply, 90VAC-264VAC.	\$ 2,913.00
EX77244-V0VCR	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 8 Port 10/100 + 16 100FX Fiber Ports + 4 Gigabit / SFP Combo Ports. Rack Mount with Redundant Internal Universal Power Supply, 90VAC-264VAC.	\$ 3,333.00
EX77424-V0VC	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 16 Port 10/100 + 8 100FX Ports + 4 Gigabit / SFP Combo Ports. Rack Mount with Internal Universal Power Supply, 90VAC-264VAC.	\$ 2,779.00
EX77424-V0VCR	Hardened (-40°C - 75°C ) Managed Ethernet Switch, 16 Port 10/100 + 8 100FX Ports + 4 Gigabit / SFP Combo Ports. Rack Mount with Redundant, Internal, Universal Power Supply, 90VAC-264VAC.	\$ 2,989.00
EX77604-00VC	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 24 Port 10/100 + 4 Gigabit/SFP Combo Ports. Rack Mount with Internal Universal Power Supply, 90VAC-264VAC.	\$ 2,646.00
EX77604-00VCR	Hardened ( -40°C - 75°C ) Managed Ethernet Switch, 24 Port 10/100 + 4 Gigabit/SFP Combo Ports. Rack Mount with Redundant Internal Universal Power Supplies, 90VAC-264VAC.	\$ 2,909.00
EX77964-8VB	16-port 10/100/1000BASE-TX +8-port 100/1000BASE SFP Combo +4-port 1G/10G SFP+ Hardened Managed Ethernet Switch (12-24VDC) Depth of 254mm allows for installation in smaller enclosures (LL3 - Light Layer 3 Option Available)	\$ 3,623.00
EX77964-8VW	Hardened (-40°C - 75°C) Managed 28 Port LL3 Gigabit Ethernet Switch, 24 GE Ports (16 GE RJ45 + 8 GE Combo SFP Ports) + 4 1G/10G SFP+ Ports, Rack Mount, Internal Universal 90-260VAC Power Supply, Terminal Block Power Connector (LL3 - Light Layer 3 Option Available)	\$ 3,938.00
EX77964-8VWR	Hardened (-40°C - 75°C) Managed 28 Port LL3 Gigabit Ethernet Switch, 24 GE Ports (16 GE RJ45 + 8 GE Combo SFP Ports) + 4 1G/10G SFP+ Ports, Rack Mount, Redundant Internal Universal 90-260VAC Power Supply, Terminal Block Power Connector (LL3 - Light Layer 3 Option Available)	\$ 4,043.00
EX78162-0VB	Hardened (-40°C - 75°C) Managed Ethernet Switch with 16 10/100 PoE Ports + 2 Gigabit Ports, 802.3at 30W PoE available on all Ports, Rear Mount Terminal Block Power Input 48VDC - 57VDC. 240W	\$ 2,625.00
EX78921-0VB	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet PoE Switch with 12 Gigabit Ports, (8 GE PoE+ 60W) + 4 GE Non PoE + 4 1000Base SFP ports. IEEE802.3at 60W on Ports 1-8 with 240W PoE power budget. DIN RAIL Mount, Terminal Block Power Input 52VDC - 57VDC, power supply sold separately. (LL3 - Light Layer 3 Option Available) 240W	\$ 2,046.00
EX78924E-0VB	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet PoE Switch with 8 Gigabit PoE Ports + 4 100/1000Base SFP ports. IEEE802.3bt 60W on 4 ports with 240W PoE power budget. DIN-rail mount, Terminal Block Redundant Power Input 52-57VDC, power supply sold separately.	\$ 1,699.00

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EX78924E-0VB-CC	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet PoE Switch with 8 Gigabit PoE Ports + 4 100/1000Base SFP ports. IEEE802.3bt 60W on 4 ports with 240W PoE power budget. DIN-rail mount, Terminal Block Redundant Power Input 52-57VDC, power supply sold separately. Conformal Coating, 50pcs minimum	\$ 2,124.00
EX78931-0VB	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet PoE Switch with 12 Gigabit Ports (8 PoE+ 60W & + 4 GE Non PoE) + 4 1000Base SFP ports. IEEE802.3at 60W on Ports 1-8 with 240W PoE power budget. DIN RAIL Mount, Terminal Block Power Input 52VDC - 57VDC, power supply sold separately. (LL3 - Light Layer 3 Option Available) 240W	\$ 2,361.00
EX78934E-0VB	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet PoE Switch with 12 Gigabit PoE Ports + 4 100/1000Base SFP ports. IEEE802.3bt 60W on 4 ports with 240W PoE power budget. DIN-rail mount, Terminal Block Redundant Power Input 52-57VDC, power supply sold separately.	\$ 1,849.00
EX78934E-0VB-CC	Hardened (-40°C - 75°C) Managed LL3 Gigabit Ethernet PoE Switch with 12 Gigabit PoE Ports + 4 100/1000Base SFP ports. IEEE802.3bt 60W on 4 ports with 240W PoE power budget. DIN-rail mount, Terminal Block Redundant Power Input 52-57VDC, power supply sold separately. Conformal Coating, 50pcs minimum	\$ 2,311.00
<b>Hardened Unmanaged Switches:</b>		
EX41922	Hardened (-40°C to 75°C) Unmanaged 4 10/100/1000BaseX port Ethernet switch, 2 Gigabit RJ45 + 2 Dual Rate 100/1000 SFP ports. Din-Rail Mount, Redundant 12-48VDC Power Input, Port Fault & Power Failure Alarm Relay.	\$ 329.00
EX41922-T	Hardened (-40°C to 75°C) Unmanaged 4 port Ethernet switch, 2 802.3at PoE Gigabit ports + 2 Dual Rate 100/1000 SFP ports. 60W PoE Power Budget, Din-Rail Mount, Redundant 12-48VDC Power Input, Port Fault & Power Failure Alarm Relay. 60W	\$ 415.00
EX42305	5 Port Hardened (-40°C - 75°C) PoE+ Ethernet Switch 4 10/100 BaseT 802.3at PoE Ports + 1 Gigabit Port, 120W PoE Power Budget, DIN Rail Mounting , Supports QoS, IEEE, 24/48VDC Terminal Block Power Input, Power supply sold separately. 120W	\$ 625.00
EX42315-3	6 Port Hardened (-40°C - 75°C) PoE+ Ethernet Switch 4 10/100 BaseT 802.3at PoE Ports + 1 Gigabit RJ45 Port + 1 Fiber Port, 120W PoE Power Budget, DIN Rail Mounting , Supports QoS, IEEE, 24/48VDC Terminal Block Power Input, Power supply sold separately. 120W	\$ 793.00
EX42315-V	6 Port Hardened (-40°C - 75°C) PoE+ Ethernet Switch 4 10/100 BaseT 802.3at PoE Ports + 1 Gigabit RJ45 Port + 1 SFP Port, 120W PoE Power Budget, DIN Rail Mounting , Supports QoS, IEEE, 24/48VDC Terminal Block Power Input, Power supply sold separately. 120W	\$ 693.00
EX42315-4	6 Port Hardened (-40°C - 75°C) PoE+ Ethernet Switch 4 10/100 BaseT 802.3at PoE Ports + 1 Gigabit RJ45 Port + 1 Fiber Port, 120W PoE Power Budget, DIN Rail Mounting , Supports QoS, IEEE, 24/48VDC Terminal Block Power Input, Power supply sold separately. 120W	\$ 887.00
EX42315-A	6 Port Hardened (-40°C - 75°C) PoE+ Ethernet Switch 4 10/100 BaseT 802.3at PoE Ports + 1 Gigabit RJ45 Port + 1 Fiber Port, 120W PoE Power Budget, DIN Rail Mounting , Supports QoS, IEEE, 24/48VDC Terminal Block Power Input, Power supply sold separately. 120W	\$ 887.00
EasyLink-300-US	Wireless Bridge Kit - Contains two paired Wireless Bridge Units, 2 x 24VDC, 1.5A Power Supplies, 2 x Passive PoE Injectors and 2 x Mounting Kits. 300Mbps, Hardened (-40C - +70C). Supports 6VDC to 30VDC Passive PoE	\$ 379.00
EX42395BT	6 Port Hardened (-40°C - 75°C) PoE+ Ethernet Switch 4 10/100/1000 BaseT 802.3bt PoE Ports + 1 Combo Gigabit RJ45/SFP Port + 1 Gigabit SFP Port, 240W PoE Power Budget, DIN Rail Mounting, 52-56VDC Terminal Block Power Input, Power supply sold separately.	\$ 499.00
INJ90BT-24	Hardened (-40°C - 75°C) Gigabit PoE Injector with 802.3bt PoE, 90W Power Output, DIN Rail Mounting, 24-56VDC Terminal Block Power Input, Power supply sold separately.	\$ 249.00
EX94006-00-1-AA	Hardened (-40°C ~ 75°C) Unmanaged 6-port 10/100BASE-TX Ethernet Switch. DIN Rail Mount, Terminal Block with Alarm Relay (12~48VDC) Power Input, Power Supply sold Separately.	\$ 887.00
EX94008-00-1-AA	Hardened (-40°C ~ 75°C) Unmanaged 8-port 10/100BASE-TX Ethernet Switch. DIN Rail Mount, Terminal Block with Alarm Relay (12~48VDC) Power Input, Power Supply sold Separately.	\$ 284.00
<b>Media Converters:</b>		
EL900-A-B-1-A	Hardened ( -40°C - 75°C) 1 10/100TX port to 1 100FX Fiber port Media Converter. Din Rail or Panel Mount. Terminal Block Power Connector (10VDC - 48VDC) Complies with U/L 1604	\$ 252.00
EL900-A-B-1-C	Hardened ( -40°C - 75°C) 1 10/100TX port to 1 100FX Fiber port Media Converter. Din Rail or Panel Mount. 24 VAC Terminal Block Power, Complies with U/L 1604	\$ 278.00
EL900-A-N-1-A	Hardened ( -40°C - 75°C) 1 10/100TX port to 1 100FX Fiber port Media Converter. Din Rail or Panel Mount. Terminal Block Power Connector (10VDC - 48VDC) Complies with U/L 1604	\$ 378.00
EL900-A-O-1-A	Hardened ( -40°C - 75°C) 1 10/100TX port to 1 100FX Fiber port Media Converter. Din Rail or Panel Mount. Terminal Block Power Connector (10VDC - 48VDC) Complies with U/L 1604	\$ 515.00
<b>Ethernet Extenders</b>		

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ED3501-U	Industrial (-10°C - 60°C) VDSL2 Ethernet Extender with 1 10/100TX Port to 1 Pair of straight or twisted copper wire. Shelf, Panel or Chassis Mount, Power Supply Included 100 VAC - 240VAC.	\$ 314.00
ED3541	Hardened (-40°C - 75°C) VDSL2 Ethernet Extender with 1 10/100TX Port to 1 Pair of straight or twisted copper wire. Din Rail or Panel Mount. Terminal Block power connector, power input range 12 - 48VDC.	\$ 478.00
ED3575-622	Hardened (-40°C - 75°C) Managed Switch with 2 VDSL2 Ethernet Extender ports. 6 10/100TX, + Gigabit SFP Combo + 2 Copper Pair VDSL2 Ports. Din Rail or Panel Mount. Terminal Block power connector, redundant 12 - 48VDC power input.	\$ 1,775.00
	<b>Conformal Coating (-CC)</b>	
Conformal Coating Option	A -CC at the end of any hardened switch, media converter or extender indicates that this model shall have the PCB conformal coated with moisture and fungus resistant coating. Orders or less than 30 units of the same model will require the Conformal Coating Setup Fee of \$500	\$ 100.00
Conformal Coating - Setup	Conformal Coating setup fee - fee is waived for orders of 30 or more units of the same model.	\$ 500.00
	<b>Power Supplies:</b>	
DR-30-24	Power Supply, ( -10C - +60C ) 30 Watts 24VDC Output Industrial DIN-Rail Power Supply	\$ 42.00
DR-60-24	Power Supply, ( -10C - +60C ) 60 Watts 24VDC Output Industrial DIN-Rail Power Supply	\$ 63.00
DR-75-48	Power Supply, ( -10C - +60C ) 75 Watts 48VDC Output Industrial DIN-Rail Power Supply	\$ 89.00
EDR-75-24	Power Supply, ( -20C - +60C ) 75 Watts 24VDC Output Industrial DIN-Rail Power Supply	\$ 89.00
EDR-75-48	Power Supply, ( -20C - +60C ) 75 Watts 48VDC Output Industrial DIN-Rail Power Supply	\$ 89.00
EX41-145044-1	Power Supply, Hardened ( -40C - +75C ) External 100-240 VAC Input; TS2 rated; has DC Jack for DC Power Connection - 45W, 12VDC, 0-3.7A	\$ 100.00
EX41-145046-1	Power Supply, Hardened ( -40C - +75C ) External, TS2 rated; Input Rating - 90-264VAC (47-63Hz), Output Rating 45W, 12VDC, 0-3.7A	\$ 100.00
MDR-40-48	Power Supply, Industrial ( -20C - +70C ) External 100-240VAC Input, TS2 Rated, 48VDC Output @ 20W.	\$ 50.00
NDR-120-48	-20 ~ +60C Input: 90-264VAC, Output: 48VDC 120W/2.5A DIN-Rail 48VDC Industrial Power Supply	\$ 104.00
NDR-240-48	-20 ~ +60C Input: 90-264VAC Output: 48VDC 240W/5A DIN-Rail 48VDC Industrial Power Supply	\$ 168.00
SDR-120-48	Power Supply, ( -25°C - 60°C ) 120 Watts 48VDC Output Industrial DIN-Rail Power Supply	\$ 152.00
SDR-240-48	Industrial (-25C - +70C) 240W Power Supply, Input: 90VAC - 260VAC, Output: 48VDC @ 5 A, DIN Rail Mount, Terminal Block Connections	\$ 226.00
	<b>SFP Modules:</b>	
EX-0155NSP-MB2L-A	SFP Module, Hardened ( -40C - +75C ) 100FX 2KM 1310nm	\$ 158.00
EX-0155TSP-MB5L-A	SFP Module, Hardened ( -40C - +75C ) 100FX SFP SM 15KM, LC Connector	\$ 313.00
EX-0155TSP-MB6L-A	SFP Module, Hardened ( -40C - +75C ) 100FX SFP SM 40KM	\$ 368.00
EX-1250NSP-SB1L-AS	SFP Module, Hardened ( -40C - +75C ) Gigabit	\$ 152.00
EX-1250TSP-MB2L-AS	SFP Module, Hardened ( -40C - +75C ) Gigabit MM 2Km 1310nm (Duplex LC)	\$ 268.00
EX-1250TSP-MB4L-AS	SFP Module, Hardened ( -40C - +75C ) Gigabit, Gigabit SM 10KM, LC Connector	\$ 224.00
EX-1250TSP-MB5L-AS	SFP Module, Hardened -40 to 85°C/-40 to 185°F, Gigabit SM 20KM (2 LC)	\$ 379.00
EX-LS38-C3L-TI-N-EB	SFP Module, Hardened -40 to 85°C/-40 to 185°F, Gigabit SM 40KM (2 LC), DDM, 1310nm	\$ 541.00
EX-LS48-C3U-TI-N-EB	SFP Module, Hardened -40 to 85°C/-40 to 185°F, Gigabit SM 70KM (2 LC), DDM, 1550nm	\$ 741.00

SFPTIS10M	SFP Module, Hardened -40 to 85°C/-40 to 185°F, 10-Gigabit SM 10KM (2 LC), DDM, 1310nm	\$ 945.00
SFPTIS20M	SFP Module, Hardened -40 to 85°C/-40 to 185°F, 10-Gigabit SM 20KM (2 LC), DDM, 1310nm	\$ 998.00
	<b>Wireless:</b>	
EW75200-0804	Hardened (-40°C - 70°C) Managed IP67 Dual Band 802.11ac, Wireless Bridge/Access Point with 5GHz/8dBi Omni Directional Antenna and 2.4GHz/4dBi Omni Directional Antenna. Powered by 802.3af/at PoE	\$ 1,364.00
EW75200-1304	Hardened (-40°C - 70°C) Managed IP67 Dual Band 802.11ac, Wireless Bridge/Access Point with 5GHz/13dBi Internal Panel Antenna and 2.4GHz/4dBi Omni Directional Antenna. Powered by 802.3af/at PoE	\$ 1,311.00
EW75000-08	Hardened (-40°C - 70°C) Managed IP67 Single Band 802.11ac, Wireless Bridge/Access Point with 5GHz/8dBiOmni Directional Antenna. Powered by 802.3af/at PoE	\$ 1,095.00
EW75000-13	Hardened (-40°C - 70°C) Managed IP67 Single Band 802.11ac, Wireless Bridge with 5GHz/13dBi Internal Panel Antenna. Powered by 802.3af/at PoE	\$ 996.00
	<b>Cellular Routers and Accessories:</b>	
C4G-M-4P3M	C4G-M-4P3M-PS LTE Router with integrated: LTE-A (CAT6 300M / 50M), GPS/GNSS, 4 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), 2 x Digital Inputs, Alarm Relay, RS485 half-duplex, IP54 enclosure. North American power adapter included.	\$ 1,013.00
C4G-M-4P3MW	C4G-M-4P3MW-PS LTE Router with integrated: LTE-A (CAT6 300M / 50M), GPS/GNSS, Wireless LAN (2.4/5 GHz), 4 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), 2 x Digital Inputs, Alarm Relay, RS485 half-duplex, IP54 enclosure. North American power adapter included.	\$ 1,166.00
C4G-M-4P6FW	C4G-M-4P6FW-PS FirstNet Ready LTE Router with integrated: LTE-A PRO (CAT12 600M with B14 NA support), GPS/GNSS, Wireless LAN (2.4/5 GHz), 4 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), 2 x Digital Inputs, Alarm Relay, 485 half-duplex, IP54 enclosure. North American power adapter included.	\$ 1,785.00
C4G-M-4P6M	C4G-M-4P6M-PS LTE Router with integrated: LTE-A PRO (CAT12 600M / 150M), GNSS, 4 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), 2 x Digital Inputs, Alarm Relay, RS485 half-duplex, IP54 enclosure. North American power adapter included.	\$ 1,279.00
C4G-M-4P6MW	C4G-M-4P6MW-PS LTE Router with integrated: LTE-A PRO (CAT12 600M / 150M), GPS/GNSS, Wireless LAN (2.4/5 GHz), 4 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), 2 x Digital Inputs, Alarm Relay, RS485 half-duplex, IP54 enclosure. North American power adapter included.	\$ 1,433.00
C4G-PSU-AU	1 x PSU 12 VDC / 2 A with 4 pin Molex connector, 1.8m / 6ft cable and AUS wall plug for C4G Desktop Router product lines.	\$ 49.00
C4G-PSU-EU	1 x PSU 12 VDC / 2 A with 4 pin Molex connector, 1.8m / 6ft cable and Euro wall plug for C4G Desktop Router product lines.	\$ 49.00
C4G-PSU-UK	1 x PSU 12 VDC / 2 A with 4 pin Molex connector, 1.8m / 6ft cable and UK wall plug for C4G Desktop Router product lines.	\$ 49.00
C4G-PSU-US	1 x PSU 12 VDC / 2 A with 4 pin Molex connector, 1.8m / 6ft cable and NA wall plug for C4G Desktop Router product lines.	\$ 49.00
C4G-PSU-US-H	Power Supply, Hardened ( -40C - +75C ) External, TS2 rated; Input Rating - 90-264VAC (47-63Hz), Output Rating 45W, 12VDC, 0-3.7A for C4G Desktop Router product lines.	\$ 99.00
C4G-S-1P3M	C4G-S-1P3M-PS LTE Router with integrated: LTE-A (CAT6 300M / 50M), GPS/GNSS, 1 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), IP54 enclosure. North American power adapter included.	\$ 871.00
C4G-S-1P6M	C4G-S-1P6M-PS LTE Router with integrated: LTE-A PRO (CAT12 600M / 150M), GPS/GNSS, 1 x 10/100/1000 RJ45 Ethernet, USB-C Port, RS232, GPIO, IGN (ignition sense pin), IP54 enclosure. North American power adapter included.	\$ 1,005.00
C4G-WIFI2ANT	2 x Wi-Fi Antenna with RP-SMA direct attach connector for C4G Router product line.	\$ 37.00
C4G-4PIN-PT	1 x pigtail cable with 4 pin Molex connector, 3m / 10ft for C4G Desktop Router product lines for GPIO and power.	\$ 39.00

C4G-8PIN-PT	1 x pigtail cable with 8 pin Molex connector, 3m / 10ft for C4G Desktop Router product lines	\$ 29.00
C4G-DIN	Universal DIN Rail Router Mount for C4G Series. The router can be attached either on the side or flat on the bottom.	\$ 29.00
C4G-GPS1ANT	1 x GPS/GNSS (GPS, Galileo, Glonass, Beidou) Passive Antenna with 5m / 16ft cable SMA connector for C4G Router product line.	\$ 39.00
C4G-LTE2ANT	2 x LTE Antenna with SMA direct attach connector for EW-CELL4G product line.	\$ 49.00
	<b>ACCESSORIES:</b>	
PC-183-72	Power Cord, 6' 18AWG / 3C Unshielded, NEMA 5-15P Plug, ROJ 2 5/8" Stripped	\$ 15.00
KR-BKNEMA	Bracket for NEMA cabinet shelf that can mount EX77964	\$ 50.00
KR-BKZDIN	Z-shaped rack vertical mounting bracket for DIN-rail switches (EX78900/78000/73900), black, set of 1	\$ 20.00
KR-BKZDIN2	Z-shaped rack horizontal mounting bracket for DIN-rail switches (EX78900/78000/73900), black, set of 1	\$ 20.00
KR-BKZDIN2-D	Din-rail configuration for Z-shaped rack horizontal mounting bracket for DIN-rail switches (EX78900/78000/73900), black, set of 1	\$ 25.00
KR-BKZDIN-D	Din configuration for Z-shaped rack vertical mounting bracket for DIN-rail switches (EX78900/78000/73900), black, set of 1	\$ 25.00
KR-DINRAILB	TransRack 19 rack mount adjustable DIN rail bracket"	\$ 129.00
PD1041	Hardened (-40°C - 75°C) Gigabit PoE Surge Protection Device, supporting 10/100/1000BaseT and 802.3at PoE pass through surge protection. Din-Rail mounting.	\$ 89.00
PD3041	Hardened (-40°C - 75°C) Copper Pair/DSL Surge Protector, RJ11 and Terminal Block Connector for input and output pairs, 10kv total surge current protection, IEC 61643-21, UL497B, Din-Rail mounting.	\$ 100.00
	<b>Dymec Ethernet Switches</b>	
	<b>Ethernet Switches</b>	
489997	10 Port (CSV,CCT,KY-1 Button Support, DDMI) Ruggedized Din Rail or Shelf Mount 10 Gig Ethernet Switch	\$ 1,553.00
489998	10 Port 10 gig (CSV,CCT,KY-1 Button Support, DDMI) Rack Mount Ethernet Switch 1 Gig (Oklahoma City) (Phasing out in 2019 replace with KY-3170XM below)	\$ 1,345.00
489998	10 Port (CSV,CCT,KY-1 Button Support, DDMI) Rack Mount Ethernet Switch 1 Gig (Oklahoma City)	\$ 1,349.00
489999	4 Port Daughter Card	\$ 414.00
490000	8 Port Daughter Card	\$ 518.00
0	ITS 10 Port Managed Layer 2 Ethernet 10 Gig Rack Mount Ethernet Switch	\$ 899.00
490001	ITS 10 Port Rack Mount Gigabit Ethernet Switch (Tulsa OK)	\$ 934.00
490002	Non Rack Mount Ethernet Switches	\$ 674.00
490002PS	Power Supply Ethernet Switch	\$ 47.00
490002SP	RJ45 Surge protection Device	\$ 42.00
490002SPPOE	POE RJ45 Surge protection Device	\$ 57.00
4900003	KY 1 Button Back Up Restore Unit	\$ 156.00
4900004	LX 20 Km/A	\$ 116.00
4900005	LX 20 KM/B	\$ 116.00
4900006	VDSL A	\$ 207.00
4900007	VDSL B	\$ 207.00
4900007	VDSL B	\$ 78.00
4900008	Ethernet Extender	\$ 275.00
0	DBU Flash Drive Config Device	\$ 99.00
	<b>McCain Traffic Controllers</b>	
	<b>McCain Controllers and Transparency/Omni Software</b>	
193317R	Rack Mount Flex Controller- ATC Cabinet (W/ Omni Software)	\$ 3,000.00
M73101RA	Rack Mount Flex Controller- Caltrans Cabinet (W/ Omni Software)	\$ 3,336.00
193317	Shelf Mount Flex Controller- ATC Cabinet (W/ Omni Software)	\$ 2,952.00
M73101SA	Shelf Mount Flex Controller- Caltrans Cabinet (W/ Omni Software)	\$ 3,384.00
M57970	ATC NEMA eX2 TS-2 Type 1 W/ Omni software	\$ 2,604.00
193000	ATC NEMA eX2 TS-2 Type 2 W/ Omni software	\$ 2,988.00
M46541	2070 ATC w/ 2E (Harris County) w/ Omni software	\$ 3,215.00
M57355	2070 ATC W/ 2B w/ Omni software	\$ 2,999.00
193002	2070L w/7A Module (Houston) w/ Omni software	\$ 3,323.00
193003	2070 GPS Plug In Module	\$ 599.00
193001	2070-E w/ Omni Software	\$ 3,326.00
193012	2070LX 1C, 2e+, 3b-lx, 4, Linux (No Omni)	\$ 2,340.00
M33160	2070L	\$ 3,072.00
M66670	ATC NEMA eX2 TS-2 Type 1 W/ D4 software	\$ 2,785.00
M46539	ATC NEMA eX2 TS-2 Type 2 W/ D4 software	\$ 3,072.00



## HGACBuy

M52565	170E-2C Mach PIN Socket (El Paso)	\$ 3,213.00
Transparity	Transparity Software (1-50 Controllers)	\$ 40,800.00
Transparity	Transparity Software (51-100 Controllers)	\$ 76,500.00
Transparity	Transparity Software (101-150 Controllers)	\$ 107,100.00
Transparity	Transparity Software (151-200 Controllers)	\$ 132,600.00
Transparity	Transparity Software (201-300 Controllers)	\$ 153,000.00
Transparity	Transparity Software (301-400 Controllers)	\$ 183,600.00
Transparity Maint	Annual Software Maintenance (1-100 controllers)	\$ 6,000.00
Transparity Maint	Annual Software Maintenance (101-150 controllers)	\$ 8,100.00
Transparity Maint	Annual Software Maintenance (151-200 controllers)	\$ 9,600.00
Transparity Maint	Annual Software Maintenance (201-300 controllers)	\$ 12,600.00
Transparity Maint	Annual Software Maintenance (301-400 controllers)	\$ 14,400.00
Omni	Omni Software per Controller	\$ 1,200.00
	<b>Traffic Cabinets</b>	
	<b>McCain ITS Cabinets</b>	
M62850	Harris County 340 ITS Cabinet (No Controller/GPS) Includes 2070 ATC Controller, CMU-212, AMU-214, SIU-218, Locks, Flashers, Load Switches, DC and AC Isolators, 222S Detectors and 430 Xfer Relays	\$ 18,350.00
193202	Houston 340 ITS Cabinet (With Controller and GPS) Includes 2070 1B Controller with 7A and GPS Modules, CMU-218, AMU-212, SIU-218, Locks, Flashers, Load Switches, DC and AC Isolators, 222S Detectors and 430 Xfer Relays	\$ 20,042.00
M62854	Houston 342 ITS Cabinet Includes 2070L Controller with 7A and GPS Modules, CMU-212, AMU-214, SIU-218, Locks, Flashers, Load Switches, DC and AC Isolators, 222S Detectors and 430 Xfer Relays	\$ 15,715.00
M62855	Houston 346 ITS Cabinet Includes 2070L Controller with 7A and GPS Modules, CMU-212, AMU-214, SIU-218, Locks, Flashers, Load Switches, DC and AC Isolators, 222S Detectors and 430 Xfer Relays	\$ 12,486.00
193201	332 San Antonio Cabinet Includes 2070E Controller, CMU-212, Anchor Bolts, Locks, Flashers, Load Switches, DC and AC Isolators and 430 Xfer Relays	\$ 10,997.00
M76287	332S San Antonio Cabinet (Add Controller) Includes CMU-212, Anchor Bolts, Locks, Flashers, Load Switches, DC and AC Isolators and 430 Xfer Relays	\$ 8,300.00
193203	332 El Paso Cabinet Includes 170-2C Controller, CMU-210, Anchor Bolts, Locks, Flashers, Load Switches, DC and AC Isolators, Fiber and Voice Modems and 430 Xfer Relays	\$ 12,636.00
193201 DAL	332 Dallas 18 Channel Cabinet (Add Controller) Includes CMU-2018 KCLiP, LMD 622T Detectors, Corbin Locks, Aux File, Flashers, LS 200 Load Switches, 242 DC Isolators and Flash Xfer Relays	\$ 9,235.00
M32644	332 Irving Cabinet (Add Controller) Includes CMU-2010 ECLiP, LMD 622T Detectors, Locks, Aux File, Flashers, LS 200 Load Switches, 242 DC Isolators and Flash Xfer Relays	\$ 11,310.00
193201 LUB	332 Lubbock Cabinet (Add Controller) Includes Flashers, LS 200 Load Switches, 242 DC Isolators and Flash Xfer Relays	\$ 9,294.00
193216	332 Austin Cabinet (Add Controller) Includes Both Doors Louvered, Flashers, LS 200 Load Switches, 242 DC Isolators and Flash Xfer Relays	\$ 8,896.00
0	McCain ATC Cabinets	\$ -
193215	358i ATC Backpack Cabinet, Fully Loaded, NO Controller,	\$ 7,688.00
M53391	358i ATC STRETCH Backpack Cabinet, Fully Loaded, NO Controller,	\$ 7,856.00
M54705	356i ATC Cabinet, Fully Loaded, NO Controller,	\$ 10,882.00
M54123	352i Cabinet ATCC-HV, IA-24CH, OA-16CH, FOTA, SA, Nat	\$ 11,747.00
193223	352i Cabinet ATCC-HV, IA-24CH, FITA-24CH, (2) FOTA-16CH	\$ 15,882.00
193209	350i ATC Cabinet 16 Ch OP, Fully Loaded, NO Controller,	\$ 14,382.00
M56764	350i ATC Cabinet 16 Ch OP, Fully Loaded, NO Controller,	\$ 18,294.00
0	McCain Agency Specific ATC Cabinets	\$ -
M78586	353i ATCC-HV Allen IA-24CH, OA-32CH, FOTA 16CH(2), SA, Gen Inlet Cabinet Includes CMU, 9 LS 2202 Flashers, SIU 2218-MC, 6 Detection Suppressors, 9 HDSP Suppressors, ISO DC 244L 4CH HalfWidth LS, 2202 Load Switches	\$ 18,376.00
M78586	353i ATCC-HV Allen (With 8 Relays and 8 Load Switched REMOVED) IA-24CH, OA-32CH, FOTA 16CH(2), SA, Gen Inlet Cabinet Includes CMU, 9 LS 2202 Flashers, SIU 2218-MC, 6 Detection Suppressors, 9 HDSP Suppressors, ISO DC 244L 4CH HalfWidth LS, 2202 Load Switches	\$ 16,370.00
193204MC	352i Montgomery Cnty ATCC-HV, IA-24CH, FITA-24CH, OA-16CH, SA, NAT Cabinet (Add Controller) Includes CMU-2212 LV-MC 32 Channel w/ Ethernet port, 2 SIU-2218's, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply and Isolators	\$ 10,

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M56764	350i Cedar Park ATCC-HV, IA-24CH, FITA-24CH, OA-16CH, SA (TWO FLASHER), NAT Cabinet (Add Controller) Includes CMU-2212 LV-MC 32 Channel w/ Ethernet port, 2 SIU-2218's, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply and Isolators	\$ 15,587.00
193206	352i Coppell Cabinet Black NO Controller, Includes CMU-2212 HV (ip) 32 Channel w/ Ethernet port, 2 SIU-2218's, 2 10" Shelves EIA Mount, Aux Unit Display, Locks, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply and Isolators	\$ 11,706.00
193204	352i Fort Worth Cabinet Add Controller 1 FOTA-16CH, Includes CMU-2212 HV (ip) 32 Channel w/ Ethernet port, 2 SIU-2218's, 2 10" Shelves EIA Mount, Aux Unit Display, Locks, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply	\$ 10,588.00
M55409	352i Fort Worth Cabinet Add Controller (2 FOTA-16CH), Includes CMU-2212 HV (ip) 32 Channel w/ Ethernet port, 2 SIU-2218's, 2 10" Shelves EIA Mount, Aux Unit Display, Locks, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply	\$ 13,394.00
193204 DAL	352i Dallas ATCC-HV, IA-48CH, 2 FITA-24CH, OA-32CH, 2 FOTA-16CH, SA, Includes 18 LS 2202-HV-MC HDSP Flashers, 4 SIU-2218's, CMU, 2212 HV-MC(ip), 32 Channel w/ Ethernet port, 12 Detection Suppressors, HESCO HE6LC-6, 16 HDSP Suppressor HESCO HE103C-9	\$ 15,774.00
0	352i Dallas ATCC-HV, IA-48CH, 2 FITA-24CH, OA-16CH, FOTA-16CH, SA, Includes Dual Flasher Service Assy, 10 LS 2202-HV-MC HDSP Flashers, 3 SIU-2218's, CMU, 2212 HV-MC(ip), 32 Channel w/ Ethernet port, 12 Detection Suppressors, HESCO HE6LC-6, 8 HDSP Suppressor HESCO HE103C-10	\$ 12,688.00
193217	353i Garland (and Grapevine Allen) Cabinet Includes Aux Display, Input Test Panel/Card, 9 LS 2202 Flashers, 2 SIU 2218-MC, 12 Suppressors, 8 HDSP Suppressors, 4 EDI Oracle 4H Det, EDI, ISO DC 242 4CH HalfWidthLS 200 Load Switches, 242 DC Isolators and Flash Xfer Relays	\$ 13,277.00
M76592	352i Garland Cabinet NO Controller, Includes CMU-2212 HV (ip) 16 Channel w/ Ethernet port, 2 SIU-2218's, 2 10" Shelves EIA Mount, Aux Unit Display, BEST Locks, 1 ATC Flasher, 8 Load Switches, and 24 HV ATC Power Supply	\$ 12,370.00
M91004	353i ATCC-HV Grapevine Cabinet IA-24CH,FITA-24CH, OA-16CH,SA, Gen Inlet, NAT/WHITE, Input Test Panel, 9 LS 2202 Flashers, 2 SIU 2218-MC, 6 Suppressors, 9 HDSP Suppressors, 4 EDI Oracle 4H Det, ISO DC 244L 4CH HalfWidth, LS 2202 Load Switches	\$ 13,664.00
193217WYLIE	353i ATCC-HV Wylie Cabinet IA-24CH,FITA-24CH, OA-16CH, NAT/ WHITE, 9 LS 2202 Flashers, 2 SIU 2218-MC, 6 Suppressors, 9 HDSP Suppressors, 4 EDI Oracle 4H Det, ISO DC 244L 4CH HalfWidth, LS 2202 Load Switches	\$ 13,010.00
M55515	352i Montgomery County ATCC-HV, IA-24CH, FITA-24CH, OA-16CH, SA, NAT Cabinet (Add Controller) Includes CMU-2212 LV-MC 32 Channel w/ Ethernet port, 2 SIU-2218's, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply and Isolators, Battery Charging Slide out Shelf	\$ 11,326.00
M73473	350i Montgomery County ATCC-HV, IA-24CH, FITA-24CH, OA-16CH, SA, NAT Cabinet (Add Controller) Includes CMU-2212 LV-MC 32 Channel w/ Ethernet port, 2 SIU-2218's, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply and Isolators	\$ 14,462.00
M55409	352i ATCC-HV Lubbock IA-24CH, FITA-24CH, OA-32CH, (2 FOTA-16CH), SA, NAT Cabinet Add Controller, Includes CMU-2212 LV 32 Channel w/ Ethernet port, 2 SIU-2218's, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply	\$ 15,147.00
M91132	352i ATCC-HV Lubbock IA-24CH, FITA-24CH, OA-32CH, (2 FOTA-16CH), SA, NAT Cabinet (Add Controller), Includes CMU-2212 LV 32 Channel w/ Ethernet port, 2 SIU-2218's, 8 ATC Flashers, 8 Load Switches, and 24 HV ATC Power Supply	\$ 12,617.00
M78508-SC	353i ATCC-HV Prosper Cabinet IA-24CH,FITA-24CH, OA-16CH, PWDR, (Add Controller) 9 LS 2202 Flashers, 2 SIU 2218-MC, 6 Suppressors, 9 HDSP Suppressors, 4 EDI Oracle 4H Det, ISO DC 244L 4CH HalfWidth, LS 2202 Load Switches	\$ 14,962.00
M55517	356i ATCC-HV Prosper Cabinet IA-24CH,FITA-24CH, OA-16CH, NAT, (Add Controller)	\$ 11,641.00
M91096	P44 Rack ATCC-HV Tyler Cabinet IA-24CH,FITA-24CH, OA-16CH, SA, Gen, (Add Controller)	\$ 15,787.00
pending	353i Arlington Cabinet Includes CMU, SIU, HDSP, ADU and CPS (Rack BOM) , Fiber Optic 12 port RackMount (616SMSC)	\$ 10,810.00
	<b>McCain ITS Cabinet Accessories</b>	
M14317	Corbin Locks L/H (2 required for 340 Cabinet)	\$ 44.00
M14318	Corbin Locks R/H (2 Required for 340 Cabinet)	\$ 44.00
M50061	222S Detector	\$ 133.00
M56812	DC 242L EDI Isolator	\$ 38.00
M11422	252 AC Isolator	\$



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M34480	AMU-214, EDI	\$ 260.00
M34482	SIU-218, EDI	\$ 244.00
M34481	CMU-212, EDI	\$ 526.00
M68359	CMU 2018 KCLiP	\$ 828.00
M84650	CMU Data Key Programmer (USB)	\$ 450.00
M11556	430 X-Fer Relay	\$ 28.00
	<b>McCain ATC Cabinet Accessories</b>	
M36255	AUXILLARY UNIT DISPLAY	\$ 513.00
M36256	LS, 2202-HV-MC HDSP/Flasher Unit ATC	\$ 194.00
M36258	SIU, 2218 ATC	\$ 240.00
M36259	CMU, 2212-HV-MC (ip) 32 CH w/ Ethernet Port, ATC	\$ 640.00
M35344	Detection Suppressor, EDCO MRA-6LC	\$ 23.00
M31647	HDSP Suppressor EDCO	\$ 18.00
M59831	Auxillary Display Unit For Backpack Cabinet	\$ 438.00
M36261	EDI Power Supply 2216 (24,48VDC)	\$ 473.00
M58360A	ASSY, PBC ATC Input Test Card	\$ 281.00
M73860	ATC Cabinet Input Test Panel	\$ 325.00
M74151	Kit, ATC Cabinet Input Test Panel	\$ 413.00
M73140	Railroad Interface Panel, ATC Cabinet Rack Mount	\$ 281.00
	<b>McCain NEMA Cabinets &amp; Accessories</b>	
M47800	P-44 Cab TS2 Type 1 (TxDOT) Fully Loaded, BIU, MMU,FTR,LS, PS (Add Controller)	\$ 10,495.00
M76680	P-44 Cab TS2 Type 1 Farmers Branch Fully Loaded, BIUs, MMU,FTR,16LSs,PS, (Add Controller)	\$ 12,693.00
M57202	P-44 Cab TS2 Type 1 Front and Rear Door Fully Loaded (Add Controller)	\$ 12,693.00
193205	P-44 Cab TS2 Type 1 Front and Rear Door (McKinney) Powder Coated Fully Loaded (Add Controller)	\$ 12,064.00
F02	P-44 Cab TS2 Type 2 Front and Rear Door (Allen) (Add Controller)	\$ 11,610.00
M78245	P-44 Cab TS2 Type 1 Stretch Cab (Flower Mound) Powder Coated 16 Load Switches (Add Controller)	\$ 9,434.00
M78246	Size 6 Cab TS2 Type 1 (Arlington) Fully Loaded, 16 LS, 32 DET-CH, 4PE-CH (Add Controller)	\$ 12,551.00
M57970	ATC NEMA eX2 TS-2 Type 1 W/ Omni software	\$ 2,713.00
193000	ATC NEMA eX2 TS-2 Type 2 W/ Omni software	\$ 3,113.00
193002	2070L w/7A Module (Houston) w/ Omni software	\$ 3,461.00
193003	2070 GPS Plug In Module	\$ 624.00
193300	EDI 16 Channel Enhanced TS2 NEMA Monitor	\$ 679.00
193313	EDI 16 Channel LCD Enhanced TS2 NEMA Monitor	\$ 776.00
193302	EDI 16 Ch LCD Enhanced TS2 NEMA Monitor W/ Ethernet	\$ 906.00
MMU2-16LEIP-115	EDI 16 Channel LCD Enhanced TS2 Smart Monitor	\$ 1,039.00
260026	EDI TS2 Heavy Duty Power Supply 250 TXDOT	\$ 446.00
260008	EDI BIU 700 (3 required)	\$ 245.00
M81188	EDI Oracle 2E (Loop Amplifier)	\$ 216.00
280911	Model 204 Flasher	\$ 25.00
280910	Model 200 Load Switch	\$ 24.00
193117	430 Transfer Relay	\$ 28.00
M58340A	ASSY, PBC NEMA Input Test Card	\$ 281.00
M58985	Alarm Input File Module	\$ 350.00
M14663	NEMA Adapter Base (Garland)	\$ 325.00
M55433	Suitcase Tester, 170/2070 Controller w/ IO Matrix Display	\$ 2,938.00
M55434	Suitcase Tester, 170/2070 Controller w/ Intersection Display	\$ 2,938.00
M58800 et al	Cabinet Test Display (specify Voltage and Lugs)	\$ 938.00
M54419A	Railroad Interface Panel, Nema/Caltrans PCB	\$ 281.00
M54419A et al	Railroad Interface Panel Harness and Mounting Kit, Specify C5/C11 and lugs	\$ 231.00
	<b>Signal Cabinets (ALL RTC Cabinets include all load switches, flash transfer realys, isolators, power supplies and BIU's as needed)</b>	
TS1	TS1 Cabinet No Conflict Monitor or Controller	\$ 8,746.00
TS1M	TS1 Cabinet with EDI Conflict Monitor but No Controller	\$ 9,743.00
TS1MC	TS1 Cabinet with EDI Conflict Monitor and McCain Controller	\$ 12,039.00
TS2	TS2 Cabinet No Conflict Monitor or Controller	\$ 10,338.00
TS2M	TS2 Cabinet with EDI Conflict Monitor but No Controller	\$ 11,334.00
TS2MC	TS2 Cabinet with EDI Conflict Monitor and McCain Controller	\$ 13,631.00
TS2TX	TXDOT TS2 Cabinet with EDI Conflict Monitor but No Controller	\$ 11,805.00
	<b>Other Cabinet Items</b>	
171036	Southern Mfg. ITS Cabinet WE302424-NMDOT-DMS-P	\$ 3,413.00

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171039	Southern Mfg. ITS Cabinet WE302424-NMDOT-CCTV-P	\$ 3,519.00
200803	Pelco Clear Confirmation Light	\$ 139.00
161407	ArmorCast Traffic Cabinet Pedestal	\$ 456.00
PNS10-03-VP4003L	LED Light Strip	\$ 70.00
	<b>Pelco Structural Poles</b>	
	<b>Harris County Mast Arm Poles (Includes Anchor Bolts, Add ILSN Sign Arm if needed)</b>	
HC-SP-30-100	HC-SP-30-100	\$ 5,523.00
HC-SP-30-100L-15	HC-SP-30-100L-15	\$ 6,607.00
HC-SP-30-100-20' MA	HC-SP-30-100-20' MA	\$ 7,763.00
HC-SP-30-100-25' MA	HC-SP-30-100-25' MA	\$ 8,144.00
HC-SP-30-100-30' MA	HC-SP-30-100-30' MA	\$ 8,651.00
HC-SP-30-100-35' MA	HC-SP-30-100-35' MA	\$ 9,114.00
HC-SP-30-100-40' MA	HC-SP-30-100-40' MA	\$ 9,552.00
HC-SP-30-100-42' MA	HC-SP-30-100-42' MA	\$ 9,611.00
HC-SP-30-100-42' MA	HC-SP-30-100-42' MA	\$ 9,823.00
HC-SP-30-100-20' MA-L15	HC-SP-30-100-20' MA-L15	\$ 8,835.00
HC-SP-30-100-25' MA-L15	HC-SP-30-100-25' MA-L15	\$ 9,228.00
HC-SP-30-100-30' MA-L15	HC-SP-30-100-30' MA-L15	\$ 9,735.00
HC-SP-30-100-35' MA-L15	HC-SP-30-100-35' MA-L15	\$ 10,211.00
HC-SP-30-100-40' MA-L15	HC-SP-30-100-40' MA-L15	\$ 10,635.00
HC-SP-30-100-42' MA-L15	HC-SP-30-100-42' MA-L15	\$ 10,694.00
HC-SP-30-100-45' MA-L15	HC-SP-30-100-45' MA-L15	\$ 10,907.00
HC-SP-34-100	HC-SP-34-100	\$ 6,291.00
HC-SP-34-100L-15	HC-SP-34-100L-15	\$ 7,374.00
HC-SP-34-100-20' MA	HC-SP-34-100-20' MA	\$ 8,346.00
HC-SP-34-100-25' MA	HC-SP-34-100-25' MA	\$ 8,657.00
HC-SP-34-100-30' MA	HC-SP-34-100-30' MA	\$ 9,061.00
HC-SP-34-100-35' MA	HC-SP-34-100-35' MA	\$ 9,550.00
HC-SP-34-100-40' MA	HC-SP-34-100-40' MA	\$ 9,962.00
HC-SP-34-100-42' MA	HC-SP-34-100-42' MA	\$ 10,020.00
HC-SP-34-100-45' MA	HC-SP-34-100-45' MA	\$ 10,233.00
HC-SP-34-100-20' MA-L15	HC-SP-34-100-20' MA-L15	\$ 9,419.00
HC-SP-34-100-25' MA-L15	HC-SP-34-100-25' MA-L15	\$ 9,730.00
HC-SP-34-100-30' MA-L15	HC-SP-34-100-30' MA-L15	\$ 10,144.00
HC-SP-34-100-35' MA-L15	HC-SP-34-100-35' MA-L15	\$ 10,621.00
HC-SP-34-100-40' MA-L15	HC-SP-34-100-40' MA-L15	\$ 11,046.00
HC-SP-34-100-42' MA-L15	HC-SP-34-100-42' MA-L15	\$ 11,103.00
HC-SP-34-100-45' MA-L15	HC-SP-34-100-45' MA-L15	\$ 11,316.00
HC-20'/20' DMA-100L-15	HC-20'/20' DMA-100L-15	\$ 10,849.00
HC-25'/20' DMA-100L-15	HC-25'/20' DMA-100L-15	\$ 11,101.00
HC-25'/25' DMA-100L-15	HC-25'/25' DMA-100L-15	\$ 11,300.00
HC-30'/20' DMA-100L-15	HC-30'/20' DMA-100L-15	\$ 11,391.00
HC-30'/25' DMA-100L-15	HC-30'/25' DMA-100L-15	\$ 11,616.00

## HGACBuy

HC-30'/30' DMA-100L-15	HC-30'/30' DMA-100L-15	\$ 11,934.00
HC-35'/20' DMA-100L-15	HC-35'/20' DMA-100L-15	\$ 11,901.00
HC-35'/25' DMA-100L-15	HC-35'/25' DMA-100L-15	\$ 12,127.00
HC-35'/30' DMA-100L-15	HC-35'/30' DMA-100L-15	\$ 12,443.00
HC-35'/35' DMA-100L-15	HC-35'/35' DMA-100L-15	\$ 12,952.00
HC-40'/20' DMA-100L-15	HC-40'/20' DMA-100L-15	\$ 12,351.00
HC-40'/25' DMA-100L-15	HC-40'/25' DMA-100L-15	\$ 12,576.00
HC-40'/30' DMA-100L-15	HC-40'/30' DMA-100L-15	\$ 12,893.00
HC-40'/35' DMA-100L-15	HC-40'/35' DMA-100L-15	\$ 13,894.00
HC-40'/40' DMA-100L-15	HC-40'/40' DMA-100L-15	\$ 14,208.00
HC-42'/20' DMA-100L-15	HC-42'/20' DMA-100L-15	\$ 13,097.00
HC-42'/25' DMA-100L-15	HC-42'/25' DMA-100L-15	\$ 13,362.00
HC-42'/30' DMA-100L-15	HC-42'/30' DMA-100L-15	\$ 13,795.00
HC-42'/35' DMA-100L-15	HC-42'/35' DMA-100L-15	\$ 13,956.00
HC-42'/40' DMA-100L-15	HC-42'/40' DMA-100L-15	\$ 14,378.00
HC-42'/42' DMA-100L-15	HC-42'/42' DMA-100L-15	\$ 14,468.00
HC-44'/20' DMA-100L-15	HC-44'/20' DMA-100L-15	\$ 13,101.00
HC-44'/25' DMA-100L-15	HC-44'/25' DMA-100L-15	\$ 13,326.00
HC-44'/30' DMA-100L-15	HC-44'/30' DMA-100L-15	\$ 13,642.00
HC-44'/35' DMA-100L-15	HC-44'/35' DMA-100L-15	\$ 14,153.00
HC-44'/40' DMA-100L-15	HC-44'/40' DMA-100L-15	\$ 14,602.00
HC-44'/42' DMA-100L-15	HC-44'/42' DMA-100L-15	\$ 14,665.00
HC-44'/44' DMA-100L-15	HC-44'/44' DMA-100L-15	\$ 14,860.00
(4) 2 1/4" Anchor Bolts w/ Templates.	(4) 2 1/4" Anchor Bolts w/ Templates.	\$ 1,030.00
	<b>TXDOT 80 MPH Mast Arm Poles(Incl Anchor Bolts, Add ILSN Sign Arm if needed)</b>	
SP-30B-80	SP-30B-80	\$ 4,453.00
SP-30B-80L-8	SP-30B-80L-8	\$ 5,289.00
SP-34D-80	SP-34D-80	\$ 5,358.00
SP-34D-80L-8	SP-34D-80L-8	\$ 6,193.00
20' SMA-80	20' SMA-80	\$ 4,782.00
20' SMA-80L-8	20' SMA-80L-8	\$ 6,098.00
24' SMA-80	24' SMA-80	\$ 4,969.00
24' SMA-80L-8	24' SMA-80L-8	\$ 6,317.00
28' SMA-80	28' SMA-80	\$ 5,132.00
28' SMA-80L-8	28' SMA-80L-8	\$ 6,317.00

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32' SMA-80	32' SMA-80	\$ 5,798.00
32' SMA-80L-8	32' SMA-80L-8	\$ 7,276.00
36' SMA-80	36' SMA-80	\$ 6,399.00
36' SMA-80L-8	36' SMA-80L-8	\$ 7,912.00
40' SMA-80	40' SMA-80	\$ 6,982.00
40' SMA-80L-8	40' SMA-80L-8	\$ 8,412.00
44' SMA-80	44' SMA-80	\$ 7,384.00
44' SMA-80L-8	44' SMA-80L-8	\$ 9,002.00
48' SMA-80	48' SMA-80	\$ 8,083.00
48' SMA-80L-8	48' SMA-80L-8	\$ 9,389.00
50' LMA-80/100	50' LMA-80/100	\$ 14,170.00
50' LMA-80/100L-8	50' LMA-80/100L-8	\$ 16,232.00
55' LMA-80/100	55' LMA-80/100	\$ 14,502.00
55' LMA-80/100L-8	55' LMA-80/100L-8	\$ 16,543.00
60' LMA-80/100	60' LMA-80/100	\$ 14,769.00
60' LMA-80/100L-8	60' LMA-80/100L-8	\$ 16,961.00
65' LMA-80/100	65' LMA-80/100	\$ 15,041.00
65' LMA-80/100L-8	65' LMA-80/100L-8	\$ 17,377.00
20'/20' DMA-80	20'/20' DMA-80	\$ 7,374.00
20'/20' DMA-80L-8	20'/20' DMA-80L-8	\$ 8,840.00
24'/20' DMA-80	24'/20' DMA-80	\$ 7,533.00
24'/20' DMA-80L-8	24'/20' DMA-80L-8	\$ 9,039.00
24'/24' DMA-80	24'/24' DMA-80	\$ 8,072.00
24'/24' DMA-80L-8	24'/24' DMA-80L-8	\$ 9,739.00
28'/20' DMA-80	28'/20' DMA-80	\$ 7,930.00
28'/20' DMA-80L-8	28'/20' DMA-80L-8	\$ 8,783.00
28'/24' DMA-80	28'/24' DMA-80	\$ 8,111.00
28'/24' DMA-80L-8	28'/24' DMA-80L-8	\$ 9,705.00
28'/28' DMA-80	28'/28' DMA-80	\$ 8,315.00
28'/28' DMA-80L-8	28'/28' DMA-80L-8	\$ 9,945.00
32'/20' DMA-80	32'/20' DMA-80	\$ 8,312.00
32'/20' DMA-80L-8	32'/20' DMA-80L-8	\$ 9,943.00
32'/24' DMA-80	32'/24' DMA-80	\$ 8,503.00
32'/24' DMA-80L-8	32'/24' DMA-80L-8	\$ 10,134.00
32'/28' DMA-80	32'/28' DMA-80	\$ 8,708.00
32'/28' DMA-80L-8	32'/28' DMA-80L-8	\$ 10,374.00
32'/32' DMA-80	32'/32' DMA-80	\$ 9,624.00
32'/32' DMA-80L-8	32'/32' DMA-80L-8	\$ 11,328.00
36'/20' DMA-80	36'/20' DMA-80	\$ 8,994.00
36'/20' DMA-80L-8	36'/20' DMA-80L-8	\$ 10,335.00
36'/24' DMA-80	36'/24' DMA-80	\$ 9,186.00
36'/24' DMA-80L-8	36'/24' DMA-80L-8	\$ 10,889.00
36'/28' DMA-80	36'/28' DMA-80	\$ 9,327.00
36'/28' DMA-80L-8	36'/28' DMA-80L-8	\$ 11,062.00
36'/32' DMA-80	36'/32' DMA-80	\$ 9,742.00
36'/32' DMA-80L-8	36'/32' DMA-80L-8	\$ 11,446.00
36'/36' DMA-80	36'/36' DMA-80	\$ 10,096.00
36'/36' DMA-80L-8	36'/36' DMA-80L-8	\$ 11,836.00
40'/20' DMA-80	40'/20' DMA-80	\$ 9,567.00
40'/20' DMA-80L-8	40'/20' DMA-80L-8	\$ 11,307.00
40'/24' DMA-80	40'/24' DMA-80	\$ 9,762.00
40'/24' DMA-80L-8	40'/24' DMA-80L-8	\$ 11,502.00
40'/28' DMA-80	40'/28' DMA-80	\$ 9,904.00
40'/28' DMA-80L-8	40'/28' DMA-80L-8	\$ 11,644.00
40'/32' DMA-80	40'/32' DMA-80	\$ 10,462.00
40'/32' DMA-80L-8	40'/32' DMA-80L-8	\$ 12,274.00
40'/36' DMA-80	40'/36' DMA-80	\$ 10,758.00
40'/36' DMA-80L-8	40'/36' DMA-80L-8	\$ 12,571.00
44'/20' DMA-80	44'/20' DMA-80	\$ 10,011.00
44'/20' DMA-80L-8	44'/20' DMA-80L-8	\$ 11,823.00
44'/24' DMA-80	44'/24' DMA-80	\$ 10,206.00
44'/24' DMA-80L-8	44'/24' DMA-80L-8	\$ 12,019.00
44'/28' DMA-80	44'/28' DMA-80	\$ 10,347.00
44'/28' DMA-80L-8	44'/28' DMA-80L-8	\$ 12,160.00
44'/32' DMA-80	44'/32' DMA-80	\$ 11,417.00
44'/32' DMA-80L-8	44'/32' DMA-80L-8	\$ 13,113.00
44'/36' DMA-80	44'/36' DMA-80	\$ 11,714.00
44'/36' DMA-80L-8	44'/36' DMA-80L-8	\$ 13,563.00
50'/20' LDMA-80	50'/20' LDMA-80	\$ 17,309.00
50'/20' LDMA-80L-8	50'/20' LDMA-80L-8	\$ 19,111.00

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55'/28' LDMA-80	55'/28' LDMA-80	\$ 17,664.00
55'/28' LDMA-80L-8	55'/28' LDMA-80L-8	\$ 20,207.00
60'/32' LDMA-80	60'/32' LDMA-80	\$ 18,208.00
60'/32' LDMA-80L-8	60'/32' LDMA-80L-8	\$ 20,848.00
65'/44' LDMA-80	65'/44' LDMA-80	\$ 19,788.00
65'/44' LDMA-80L-8	65'/44' LDMA-80L-8	\$ 21,070.00
8' Luminaire Arm	8' Luminaire Arm	\$ 1,005.00
	<b>TXDOT 100 MPH Mast Arm Poles(Incl Anchor Bolts, Add ILSN Sign Arm if needed)</b>	
SP-30B-100	SP-30B-100	\$ 4,453.00
SP-30B-100L-8	SP-30B-100L-8	\$ 5,289.00
SP-34D-100	SP-34D-100	\$ 5,358.00
SP-34D-100L-8	SP-34D-100L-8	\$ 6,193.00
20' SMA-100	20' SMA-100	\$ 5,525.00
20' SMA-100L-8	20' SMA-100L-8	\$ 7,037.00
24' SMA-100	24' SMA-100	\$ 5,839.00
24' SMA-100L-8	24' SMA-100L-8	\$ 7,343.00
28' SMA-100	28' SMA-100	\$ 5,879.00
28' SMA-100L-8	28' SMA-100L-8	\$ 7,462.00
32' SMA-100	32' SMA-100	\$ 6,334.00
32' SMA-100L-8	32' SMA-100L-8	\$ 7,952.00
36' SMA-100	36' SMA-100	\$ 6,983.00
36' SMA-100L-8	36' SMA-100L-8	\$ 8,695.00
40' SMA-100	40' SMA-100	\$ 7,822.00
40' SMA-100L-8	40' SMA-100L-8	\$ 9,581.00
44' SMA-100	44' SMA-100	\$ 8,201.00
44' SMA-100L-8	44' SMA-100L-8	\$ 9,994.00
20'/20' DMA-100	20'/20' DMA-100	\$ 7,902.00
20'/20' DMA-100L-8	20'/20' DMA-100L-8	\$ 9,099.00
24'/20' DMA-100	24'/20' DMA-100	\$ 8,273.00
24'/20' DMA-100L-8	24'/20' DMA-100L-8	\$ 9,919.00
24'/24' DMA-100	24'/24' DMA-100	\$ 8,839.00
24'/24' DMA-100L-8	24'/24' DMA-100L-8	\$ 10,444.00
28'/20' DMA-100	28'/20' DMA-100	\$ 8,604.00
28'/20' DMA-100L-8	28'/20' DMA-100L-8	\$ 10,290.00
28'/24' DMA-100	28'/24' DMA-100	\$ 9,063.00
28'/24' DMA-100L-8	28'/24' DMA-100L-8	\$ 10,786.00
28'/28' DMA-100	28'/28' DMA-100	\$ 9,335.00
28'/28' DMA-100L-8	28'/28' DMA-100L-8	\$ 11,056.00
32'/20' DMA-100	32'/20' DMA-100	\$ 9,080.00
32'/20' DMA-100L-8	32'/20' DMA-100L-8	\$ 10,802.00
32'/24' DMA-100	32'/24' DMA-100	\$ 9,476.00
32'/24' DMA-100L-8	32'/24' DMA-100L-8	\$ 11,199.00
32'/28' DMA-100	32'/28' DMA-100	\$ 10,186.00
32'/28' DMA-100L-8	32'/28' DMA-100L-8	\$ 11,944.00
32'/32' DMA-100	32'/32' DMA-100	\$ 10,598.00
32'/32' DMA-100L-8	32'/32' DMA-100L-8	\$ 12,357.00
36'/20' DMA-100	36'/20' DMA-100	\$ 9,684.00
36'/20' DMA-100L-8	36'/20' DMA-100L-8	\$ 10,120.00
36'/24' DMA-100	36'/24' DMA-100	\$ 9,977.00
36'/24' DMA-100L-8	36'/24' DMA-100L-8	\$ 11,814.00
36'/28' DMA-100	36'/28' DMA-100	\$ 10,168.00
36'/28' DMA-100L-8	36'/28' DMA-100L-8	\$ 11,963.00
36'/32' DMA-100	36'/32' DMA-100	\$ 10,807.00
36'/32' DMA-100L-8	36'/32' DMA-100L-8	\$ 12,602.00
36'/36' DMA-100	36'/36' DMA-100	\$ 11,208.00
36'/36' DMA-100L-8	36'/36' DMA-100L-8	\$ 13,008.00
40'/20' DMA-100	40'/20' DMA-100	\$ 10,175.00
40'/20' DMA-100L-8	40'/20' DMA-100L-8	\$ 12,007.00
40'/24' DMA-100	40'/24' DMA-100	\$ 10,410.00
40'/24' DMA-100L-8	40'/24' DMA-100L-8	\$ 13,801.00
40'/28' DMA-100	40'/28' DMA-100	\$ 12,020.00
40'/28' DMA-100L-8	40'/28' DMA-100L-8	\$ 13,889.00
40'/32' DMA-100	40'/32' DMA-100	\$ 12,674.00
40'/32' DMA-100L-8	40'/32' DMA-100L-8	\$ 14,543.00
40'/36' DMA-100	40'/36' DMA-100	\$ 13,049.00
40'/36' DMA-100L-8	40'/36' DMA-100L-8	\$ 14,955.00
44'/20' DMA-100	44'/20' DMA-100	\$ 12,119.00
44'/20' DMA-100L-8	44'/20' DMA-100L-8	\$ 14,023.00
44'/24' DMA-100	44'/24' DMA-100	\$ 12,354.00
44'/24' DMA-100L-8	44'/24' DMA-100L-8	\$ 14,023.00

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44'/28' DMA-100	44'/28' DMA-100	\$ 12,607.00
44'/28' DMA-100L-8	44'/28' DMA-100L-8	\$ 14,549.00
44'/32' DMA-100	44'/32' DMA-100	\$ 13,262.00
44'/32' DMA-100L-8	44'/32' DMA-100L-8	\$ 15,203.00
44'/36' DMA-100	44'/36' DMA-100	\$ 13,573.00
44'/36' DMA-100L-8	44'/36' DMA-100L-8	\$ 15,515.00
50' LMA-80/100	50' LMA-80/100	\$ 17,309.00
50' LMA-80/100L-8	50' LMA-80/100L-8	\$ 19,300.00
55' LMA-80/100	55' LMA-80/100	\$ 17,664.00
55' LMA-80/100L-8	55' LMA-80/100L-8	\$ 20,207.00
60' LMA-80/100	60' LMA-80/100	\$ 18,208.00
60' LMA-80/100L-8	60' LMA-80/100L-8	\$ 20,848.00
65' LMA-80/100	65' LMA-80/100	\$ 19,788.00
65' LMA-80/100L-8	65' LMA-80/100L-8	\$ 21,070.00
	<b>Signals and LEDs</b>	
	<b>Use this Separate LED section for LED's only Quotes, they are duplicated in each signal section also</b>	
	<b>Leotek P3 single LED Heads</b>	
820006	12" Green Arrow	\$ 36.00
820003	12" Green Ball	\$ 34.00
820005	12" Yellow Arrow	\$ 36.00
820002	12" Yellow Ball	\$ 34.00
820004	12" Red Arrow	\$ 36.00
820001	12" Red Ball	\$ 34.00
	<b>Leotek 15 Year Warranty LED's</b>	
820006-15	12" Green Arrow - 15 Year Warranty	\$ 48.00
820003-15	12" Green Ball- 15 Year Warranty	\$ 53.00
820005-15	12" Yellow Arrow - 15 Year Warranty	\$ 48.00
820002-15	12" Yellow Ball- 15 Year Warranty	\$ 53.00
820004-15	12" Red Arrow - 15 Year Warranty	\$ 48.00
820001-15	12" Red Ball- 15 Year Warranty	\$ 53.00
	<b>Leotek 8" Bicycle LED's</b>	
TP08A-BC-IL	8" Green Bicycle	\$ 51.00
TP08A-BB-IL	8" Yellow Bicycle	\$ 51.00
TP08A-BA-IL	8" Red Bicycle	\$ 51.00
	<b>Leotek 12v DC LED's</b>	
820021 ULP	DC 12" Yellow Ball Ultra Low Power (5 Watt)	\$ 52.00
820061	DC 12" Yellow Ball	\$ 45.00
820062	DC 12" Green Ball	\$ 45.00
820060	DC 12" Red Ball	\$ 45.00
	<b>Leotek 48v DC LED's</b>	
820006 48V	12" Green Arrow	\$ 61.00
820003 48V	12" Green Ball	\$ 56.00
820005 48V	12" Yellow Arrow	\$ 61.00
820002 48V	12" Yellow Ball	\$ 56.00
820004 48V	12" Red Arrow	\$ 61.00
820001 48V	12" Red Ball	\$ 56.00
821002 48V	16" Countdown Ped (48 Volt DC)	\$ 137.00
	<b>U-Turn and Bi-modal LED's</b>	
82000	12" Red U-Turn Arrow	\$ 57.00
82000	12" Yel U-Turn Arrow	\$ 57.00
82000	12" Grn U-Turn Arrow	\$ 57.00
820010	12" Yellow/Green Bi-Modal Arrow (IL)	\$ 88.00
	<b>One Section Signals</b>	
	<b>McCain One Section Signal Heads</b>	
190000	1 Section Poly Head (With Visor) TxDot Yellow	\$ 47.00
190102	1 Section Alum Head (With Visor) TxDot Yellow	\$ 55.00
191002	1 Section Poly Head (With Visor) TxDot Black	\$ 43.00
190103	1 Section Alum Head (With Visor) TxDot Black	\$ 55.00
	<b>One Section Back Plates</b>	
192101	1 Sec Alum	\$ 21.00
M17876	1 Sec Alum - Louvered	\$ 42.00
M18162	1 Sec Poly (Flat)	\$

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192101RT	1 Sec Alum w/ 2" Reflective Tape	\$ 29.00
M44287	1 Sec Alum Louvered w/ 2" Reflective Tape	\$ 27.00
	<b>One Section Astro Bracs</b>	
AS-0125-1-62-PNC	1Way, 1 Sec (62" Cable)	\$ 133.00
	<b>One Section Span Wire Assemblies</b>	
200902	Span Wire Assy 1Way 1-Point Mount 1 Sec	\$ 61.00
201082	Span Wire Assy 2Way 1-Point Mount 1 Sec	\$ 84.00
200072	Span Wire Assy 3Way 1-Point Mount 1 Sec	\$ 144.00
201083	Span Wire Assy 4Way 1-Point Mount 1 Sec	\$ 146.00
0	Paint Adder For Brac or Assy (Add Color code Pxx)	\$ 21.00
	<b>Two Section Signals</b>	
	<b>Two Section McCain Signals</b>	
2YP	2 Section Poly Head (With Visor) TxDot Yellow	\$ 79.00
2YA	2 Section Alum Head (With Visor) TxDot Yellow	\$ 109.00
2BP	2 Section Poly Head (With Visor) TxDot Black	\$ 69.00
2BA	2 Section Alum Head (With Visor) TxDot Black	\$ 109.00
	<b>Two Section Back Plates</b>	
192102	2 Sec Alum	\$ 26.00
M17894	2 Sec Alum - Louvered	\$ 27.00
M18164	2 Sec Poly (Flat)	\$ 23.00
192102RT	2 Sec Alum w/ 2" Reflective Tape	\$ 36.00
M56678	2 Sec Alum Louvered w/ 2" Reflective Tape	\$ 38.00
	<b>Two Section Astro Bracs</b>	
AS-0125-2-62-PNC	1Way, 2 Sec (62" Cable)	\$ 136.00
2sec Split	2 Sec Split Span (Top & Bottom) w/ Gap between	\$ 96.00
Paint Adder	Paint Adder For Brac or Assy (Add Color code Pxx)	\$ 21.00
	<b>Two Section Leotek New P3 LED's</b>	
820002	12" Yellow Ball	\$ 34.00
820001	12" Red Ball	\$ 34.00
	<b>Three Section Signals</b>	
	<b>McCain Three Section Signals</b>	
190003TX	3 Section Poly Head (With Visor) TxDot Yellow	\$ 148.00
190103TX	3 Section Alum Head (With Visor) TxDot Yellow	\$ 169.00
191003TX	3 Section Poly Head (With Visor) TxDot Black	\$ 133.00
191103TX	3 Section Alum Head (With Visor) TxDot Black	\$ 169.00
	<b>Three Section Back Plates</b>	
192103	3 Sec Alum	\$ 33.00
192103RT	3 Sec Alum w/ 2" Reflective Tape	\$ 43.00
192116	3 Sec Alum (HAWK) Cluster fro AB -0168	\$ 52.00
192113	3 Sec Alum - Louvered	\$ 34.00
192113RT	3 Sec Alum Louvered w/ 2" Reflective Tape	\$ 43.00
M61597	3 Sec Alum - Louvered (HAWK) Cluster (Max Border)	\$ 55.00
TBD	3 Sec Alum - Louvered (HAWK) Cluster (Max Border) w/ 2" Reflective Tape	\$ 62.00
192003	3 Sec VF, ABS	\$ 36.00
192003RT	3 Sec VF, ABS with 2" Reflective Tape	\$ 66.00
BK-8000-3-PNC	3 Sec Pelco Aeroflex (No Tape)	\$ 77.00
BK-1032-A-PNC	3 Sec VF, ABS (Cluster)	\$ 193.00
	<b>Three Section Astro Bracs</b>	
201160	1Way, 3 Sec (62" Cable)	\$ 145.00
201160-84	1Way, 3 Sec (84" Cable)	\$ 151.00
201160-96	1Way, 3 Sec (96" Cable)	\$ 154.00
201160-120	1Way, 3 Sec (120" Cable)	\$ 160.00
AB-0168-62-PNC	1Way, 3 Sec (62" Cable) (Cluster) Only use if spec'd	\$ 288.00
200050	1Way, 3 Sec (62" Cable) w/CGB	\$ 151.00
AS-0194-3-84-2-PNC	1Way, 3 Sec (84" Cable) w/CGB	\$ 157.00
200051	1Way, 3 Sec (96" Cable) w/CGB	\$ 160.00
AS-0194-3-120-2-PNC	1Way, 3 Sec (120" Cable) w/CGB	\$ 166.00
AB-0150-3-62-PNC	1 Way, 3 Sec (62" Cable) Articulated w/CGB	\$ 195.00
AB-0150-3-84-PNC	1 Way, 3 Sec (84" Cable) Articulated w/CGB	\$ 201.00
AB-0150-3-96-PNC	1 Way, 3 Sec (96" Cable) Articulated w/CGB	\$ 202.00
	<b>Three Section Span Wire Assy</b>	
200150	Span Wire Assy, 1Way 2-Point Mount 3 Sec	\$ 126.00
200151	Span Wire Assy, Full Piping (3 Sec)	\$ 283.00
201177-3	Span Wire Assy, Houston (3 Sec)	\$ 227.00
SP-3011-TX-3-PNC	3 Sec Signal (Type E) FOR EL PASO	\$

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SE-3315-PNC	3 Sec HAWK Cluster w/Universal Hub Plates	\$ 181.00
20SE-5094-PNC	3 Sec Top and Bottom Mount	\$ 138.00
Paint Adder	Paint Adder For Brac or Assy (Add Color code Pxx)	\$ 21.00
	<b>Three Section Leotek New P3 LED's</b>	
820006	12" Green Arrow	\$ 36.00
820003	12" Green Ball	\$ 34.00
820005	12" Yellow Arrow	\$ 36.00
820002	12" Yellow Ball	\$ 34.00
820004	12" Red Arrow	\$ 36.00
820001	12" Red Ball	\$ 34.00
	<b>Four Section Signals</b>	
	<b>McCain Four Section Signals</b>	
190004TX	4 Section Poly Head (With Visor) TxDot Yellow	\$ 192.00
190104TX	4 Section Alum Head (With Visor) TxDot Yellow(Horiz)	\$ 221.00
191004TX	4 Section Poly Head (With Visor) TxDot Black	\$ 177.00
191104TX	4 Section Alum Head (With Visor) TxDot Black (Horiz)	\$ 221.00
0	<b>Four Section Back Plates</b>	
192004	4 Sec VF, ABS	\$ 44.00
192104	4 Sec Alum	\$ 36.00
192104RT	4 Sec Alum w/ 2" Reflective Tape	\$ 62.00
192114	4 Sec Alum - Louvered	\$ 39.00
192114RT	4 Sec Alum Louvered w/ 2" Reflective Tape	\$ 57.00
M18219D	4 Sec VF, ABS	\$ 44.00
192004RT	4 Sec VF, ABS with 2" Reflective Tape	\$ 70.00
0	4 Sec Louisiana Backplate	\$ 52.00
BK-8000-4-PNC	4 Sec Aeroflex (No Tape)	\$ 92.00
0	<b>Four Section Astro Bracs</b>	
201160-4	1Way, 4 Sec (62" Cable)	\$ 152.00
201160-4-84	1Way, 4 Sec (84" Cable)	\$ 158.00
201160-4-96	1Way, 4 Sec (96" Cable)	\$ 161.00
201160-4-120	1Way, 4 Sec (120" Cable)	\$ 167.00
AS-0194-4-62	1Way, 4 Sec (62" Cable) w/CGB	\$ 147.00
AS-0194-4-84	1Way, 4 Sec (84" Cable) w/CGB	\$ 162.00
AS-0194-4-96	1Way, 4 Sec (96" Cable) w/CGB	\$ 161.00
AS-0194-4-120	1Way, 4 Sec (120" Cable) w/CGB	\$ 171.00
AB-0150-4-96-PNC	1 Way, 4 Sec (96" Cable) Articulated w/CGB	\$ 203.00
	<b>Four Section Span Wire Assy</b>	
200150	Span Wire Assy, 1Way 2-Point Mount 3 Sec	\$ 126.00
200152	Span Wire Assy, Full Piping (4 Sec)	\$ 293.00
201177	Span Wire Assy, Houston (4 Sec)	\$ 234.00
SP-3011-TX-4-PNC	4 Sec Signal (Type E) FOR EL PASO	\$ 126.00
Paint Adder	Paint Adder For Brac or Assy (Add Color code Pxx)	\$ 21.00
	<b>Four Section Leotek New P3 LED's</b>	
820006	12" Green Arrow	\$ 36.00
820003	12" Green Ball	\$ 34.00
820005	12" Yellow Arrow	\$ 36.00
820002	12" Yellow Ball	\$ 34.00
820004	12" Red Arrow	\$ 36.00
820001	12" Red Ball	\$ 34.00
	<b>Five Section Signals</b>	
	<b>McCain Five Section Signals</b>	
191005TX	5 Section Poly Head (With Visor) TxDot Black	\$ 221.00
M32158	5 Section Poly Cluster (With Visor) TxDot Black	\$ 221.00
190005TX	5 Section Poly Head (With Visor) TxDot Yellow	\$ 241.00
M44515	5 Section Poly Cluster (With Visor) TxDot Yellow	\$ 241.00
190105TX	5 Section Alum Head (With Visor) TxDot Yellow	\$ 280.00
M65857	5 Section Alum Cluster (With Visor) TxDot Yellow	\$ 280.00
190105TX	5 Section Alum Head (With Visor) TxDot Yellow	\$ 280.00
191105TX	5 Section Alum Head (With Visor) TxDot Black	\$ 280.00
M56170	5 Section Alum Cluster (With Visor) TxDot Black	\$ 280.00
	<b>Five Section Back Plates</b>	
192005	5 Sec VF, ABS	\$ 55.00
192005RT	5 Sec VF, ABS with 2" Reflective Tape	\$ 83.00
192105	5 Sec Alum	\$ 44.00
192105RT	5 Sec Alum W/ 2" Reflective Tape	\$



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192105C	5 Sec Alum (Cluster)	\$ 57.00
192115	5 Sec Alum - Louvered	\$ 55.00
192115RT	5 Sec Alum - Louvered w/ 2" Reflective Tape	\$ 69.00
M18084	5 Sec Alum (Cluster) - Louvered for Pelco Bracket	\$ 59.00
M66678	5 Sec Alum (Cluster) - Louvered for Pelco Bracket w/ 2" RT	\$ 72.00
M42514D	5 Sec VF, ABS (Cluster)	\$ 72.00
5 Sec La	5 Sec Louisiana Backplate	\$ 73.00
BK-8000-5-PNC	5 Sec Aeroflex (No Tape)	\$ 104.00
	<b>Five Section Astro Bracs</b>	
201160-5	1Way, 5 Sec (62" Cable)	\$ 160.00
201160-5-84	1Way, 5 Sec (84" Cable)	\$ 165.00
201160-5-96	1Way, 5 Sec (96" Cable)	\$ 168.00
201160-5-120	1Way, 5 Sec (120" Cable)	\$ 175.00
20AS-0138-62	1Way, 5 Sec (62" Cable) (Cluster)	\$ 244.00
20AS-0138-96	1Way, 5 Sec (96" Cable) (Cluster)	\$ 253.00
20AS-0138-120	1Way, 5 Sec (120" Cable) (Cluster)	\$ 259.00
AS-0194-5-62	1Way, 5 Sec (62" Cable) w/CGB	\$ 164.00
AS-0194-5-84	1Way, 5 Sec (84" Cable) w/CGB	\$ 170.00
200052	1Way, 5 Sec (96" Cable) w/CGB	\$ 173.00
AS-0194-5-120	1Way, 5 Sec (120" Cable) w/CGB	\$ 179.00
AB-0150-5-96-PNC	1 Way, 5 Sec (96" Cable) Articulated w/CGB	\$ 216.00
	<b>Five Section Span Wire Assy</b>	
SP-1001-TX-PNC	Span Wire Assy, 1Way 2-Point Mount 5 Sec	\$ 126.00
200153	Span Wire Assy, Full Piping (5 Sec)	\$ 304.00
201177-5	Span Wire Assy, Houston (5 Sec)	\$ 245.00
SP-3041-TX-PNC	Span Wire Assy, (5 Sec Cluster)	\$ 135.00
SP-3011-TX-5-PNC	5 Sec Signal (Type E) FOR EL PASO	\$ 133.00
Paint Adder	Paint Adder For Brac or Assy (Add Color code Pxx)	\$ 21.00
	<b>Five Section Leotek New P3 LED's</b>	
820006	12" Green Arrow	\$ 36.00
820003	12" Green Ball	\$ 34.00
820005	12" Yellow Arrow	\$ 36.00
820002	12" Yellow Ball	\$ 34.00
820004	12" Red Arrow	\$ 36.00
820001	12" Red Ball	\$ 34.00
	<b>Louvers &amp; Visors</b>	
	<b>Louvers</b>	
201154	12" GPL 8 degree Slotted Full Circle Louver - Yellow	\$ 172.00
201154B	12" GPL 8 degree Slotted Full Circle Louver - Black	\$ 172.00
260011	5 Vane, 7° Louver	\$ 47.00
	<b>Visors</b>	
190001	12" Poly Visor Yellow	\$ 9.00
Full Circle Visor	12" Alum Full Circle Visor - Yellow	\$ 13.00
190101	12" Alum Tunnel Visor - Yellow	\$ 13.00
191001	12" Poly Visor Black	\$ 5.00
M19300	12" Alum Full Circle Visor - Black	\$ 13.00
191101	12" Alum Tunnel Visor - Black	\$ 13.00
	<b>Other Signal Related Parts &amp; NM Assemblies</b>	
M66676	Reflective Tape per foot to add to Backplate	\$ 3.00
	<b>Astro Bracs Clamps ONLY with Galvanized Cable</b>	
201151	Astro Brac Clamp Kit w/62" Galv Cable	\$ 72.00
201151-84	Astro Brac Clamp Kit w/84" Galv Cable	\$ 77.00
201151-96	Astro Brac Clamp Kit w/96" Galv Cable	\$ 80.00
201151-120	Astro Brac Clamp Kit w/120" Galv Cable	\$ 86.00
201106	3 Section Gusseted Tube	\$ 27.00
201106-58	4 Section Gusseted Tube	\$ 35.00
201106-74	5 Section Gusseted Tube	\$ 41.00
201013	9 inch Standard Arm Kit	\$ 29.00
200084	9 inch CGB Arm Kit	\$ 34.00
0	Paint Adder (Add Color code Pxx)	\$ 7.00
	<b>Pelco Wind Dampers</b>	
200079-62	Wind Damper (MA-DPD-12) less sign - 62" Cable	\$ 455.00
200079-84	Wind Damper (MA-DPD-12) less sign - 84" Cable	\$ 466.00
200079-96	Wind Damper (MA-DPD-12) less sign - 96" Cable	\$ 472.00
0	Paint Adder (Add Color code Pxx)	\$ -
0	School Zone Assembly (3 head Mast Arm)FOR EL PASO	\$ -
201057	School Zone Assembly (3 head Mast Arm)FOR EL PASO	\$ -

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Kit	<b>TxDOT 2 Section Split Span Assembly With Gap</b>	
20SE-5089	Span Hanger	\$ 57.00
20SE-0448	Check Nut (2 Required each)	\$ 5.00
20SE-0354	Neoprene Washer (2 Required Each))	\$ -
20SE-0436-12	Nipple 1.5" (12")	\$ 10.00
20SE-5050-PNC	Tether Assy Tri Stud Breakaway	\$ 19.00
Kit	<b>NM Signal Mnt End of Arm</b>	
201052	Hub Plate (SE-0444) (2 required each)	\$ 13.00
201191	4" All Thread (SE-0309)	\$ 13.00
20-SE-0436-10	10" Nipple (SE-0436)	\$ 10.00
200085	Serrated Ell (SE-0457) (2 required Each)	\$ 11.00
201400	Lock Ring (SE-0360) (2 Required Each)	\$ 3.00
201046	Hex Nipple (SE-0443) (2 Required Each)	\$ 5.00
Home Depot	Home Depot 1 1/2" LB w/cover & Gasket	\$ 19.00
Kit	<b>NM Signal Mount Side of Pole/Mid Arm</b>	
201052	Hub Plate (SE-0444) (2 required each)	\$ 13.00
20-SE-0436-10	10" Nipple (SE-0436)	\$ 10.00
200085	Serrated Ell (SE-0457) (2 required Each)	\$ 11.00
201400	Lock Ring (SE-0360) (2 Required Each)	\$ 3.00
201046	Hex Nipple (SE-0443) (2 Required Each)	\$ 5.00
0	<b>NM Signal Mnt Ped Pole Head</b>	
201052	Hub Plate (SE-0444) (2 required each)	\$ 13.00
201191	4" All Thread (SE-0309)	\$ 13.00
200085	Serrated Ell (SE-0457) (2 required Each)	\$ 11.00
201400	Lock Ring (SE-0360) (2 Required Each)	\$ 3.00
201046	Hex Nipple (SE-0443) (2 Required Each)	\$ 5.00
0	<b>NM Ped Head &amp; TX Type 1</b>	
201052	Hub Plate (SE-0444) (2 required each)	\$ 13.00
20-SE-0436-12	12" Nipple (SE-0436) (2 Required Each)	\$ 10.00
200085	Serrated Ell (SE-0457) (2 required Each)	\$ 11.00
201400	Lock Ring (SE-0360) (2 Required Each)	\$ 3.00
201046	Hex Nipple (SE-0443) (2 Required Each)	\$ 5.00
	<b>Coaxial and Helix Cable</b>	
	<b>Coaxial Cable Including Connectors</b>	
PNS10-500200A	Coaxial Cable LMR-400 (Per Ft.)	\$ 1.33
LMR 400 Conn	N Male Connector - LMR-400 (2 per radio)	\$ 17.00
	<b>Helix Cable Including Connectors</b>	
PNS10-500200H	Helix Cable LMR-600 (Per Ft.)	\$ 2.55
LMR600 Conn	N Male Connector - LMR-600 (2 per radio)	\$ 29.00
	<b>Video Detection</b>	
	<b>Iteris VIVD's Processor System</b>	
	<b>Detector/Processor Cards</b>	
260300	Edge 2 Detector Card - 1 Camera	\$ 1,625.00
260301	Edge 2 Detector Card - 2 Camera (use for 4 Cam Sys)	\$ 2,500.00
260302	Edge 2 Detector Card - 4 Camera	\$ 4,750.00
	<b>Interface Panels &amp; Dinrail</b>	
260312	Edgeconnect Card (for Comm Back to TCC)	\$ 3,169.00
260314	Vec-Edge-2 (Processor)	\$ 2,938.00
260303	Surge Panel w/Mounting Clips for 6 suppressors	\$ 188.00
260305	Dinrail Clip	\$ -
130880	Mouse	\$ 20.00
260309	Y Cable for Monitor	\$ -
260308	7" Color Monitor	\$ 156.00
	<b>Iteris VIVD's Camera Assembly</b>	

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260306	Color Camera	\$ 1,188.00
Vec Cam	Vector Sensor (Camera)	\$ 4,688.00
260304	Video Surge Suppressor w/1 FCABLE	\$ 63.00
260307	Camera Mounting Bracket	\$ 156.00
AS-0175-74-62-PNC	Pelco Camera Mounting Bracket - 62"	\$ 158.00
AS-0175-74-120-PNC	Pelco Camera Mounting Bracket - 120"	\$ 173.00
PNS10-504415	BNC Connectors	\$ 4.00
	Vivds System Set Up	\$ 300.00
	VIVD's Central Control (Laptop)	\$ 2,000.00
	ViVDS Communication Cable (Coaxial)	\$ 1.03
	<b>Myers Battery Backups</b>	
	<b>BBU System (External Battery Cabinet)</b>	
47-UPSCAB	Myers BC1280 BBU W/O Batteries	\$ 3,875.00
47-UPS332 RACK	Myers BBU W/O Batteries 332 Retrofit (San Antonio)	\$ 3,944.00
47-UPS332 RACK	Myers BBU W/O Batteries 332 Retrofit (San Antonio)	\$ 3,944.00
Gen Option	Generator Option (Incl. Automatic Switch, Dead Face Panel, 30A Generator Receptacle, Wiring )	\$ 269.00
MP2000	MP2000 in 232 Cabinet Includes: MP2000E, PTS/MBPS, Swing Out Battery Trays, Battery, Cable & Wiring Kit	\$ 1,875.00
Batt Shelves	Slide Out Battery Shelves in TXDOT Cabinet	\$ 225.00
Mems	MEMS (Myers Ethernet Monitoring Software)	\$ 625.00
13-HR4000	MK 100 Amp Batteries	\$ 334.00
161409	Battery Box	\$ 538.00
	<b>Schneider APC UPS's</b>	
	<b>UPS System (External Battery Cabinet)</b>	
710010	UPS w/ APC Secure UPS 1300VA/1300 W 120 VAC In/Out RM Plus Bypass Unit with 12' Harness (No Cabinet or Power Panel)	\$ 2,195.00
710011	Complete UPS w/ APC Secure UPS 1300VA/1300 W 120 VAC In/Out RM Plus Bypass Unit with 12' Harness (NO Cabinet or Power Panel but with Generator Option)	\$ 2,245.00
APC-TXDOT	Turnkey UPS w/ APC Secure UPS 1300VA/1300 W 120 VAC In/Out RM, Bypass Unit, 12' Harness, RTC Cabinet and Power Panel 4 MK 110 AH Batteries (No Generator Plug)	\$ 4,642.00
APC-DOT	Turnkey UPS w/ APC Secure UPS 1300VA/1300 W 120 VAC In/Out RM Plus Bypass Unit, 12' Harness, RTC Cabinet and Power Panel 4 MK 110 AH Batteries and Generator Plug	\$ 4,911.00
710001	APC Secure UPS 1300VA/1300 W 120 VAC In/Out RM Conformal Coated	\$ 1,757.00
710002	APC Schneider SecureUPS Bypass Unit W/ Generator input, W/O Batteries	\$ 300.00
710002NOGEN	APC Schneider SecureUPS Bypass Unit W/O Generator input, W/O Batteries	\$ 250.00
710003	APC Schneider Battery Harness 12'	\$ 188.00
47-HAR4	APC Schneider Battery Harness 4'	\$ 150.00
03-UPSGEN	Generator Option (Incl. Automatic Switch, Dead Face Panel, 30A Generator Receptacle, Wiring )	\$ 269.00
13-8A30 HEI	MK 110 Amp 12V Batteries	\$ 254.00
710006	APC 100 Amp 12V Batteries	\$ 313.00
710009	Set of 4 APC 100 Amp 48V Batteries	\$ 1,250.00
260012	Aluminum Mounting Cabinet	\$ 1,100.00
PNS10 -03-UPSCTC	Power Panel, wiring and Labor	\$ 331.00
PNS10 -03-UPS FANTHERM	Add ,Thermostat and Fan Only (NO POWER PANEL)	\$ 326.00
PNS10 -03-UPS CONF	Add Confirmation Light	\$ 50.00
PNS10 -03-UPS DOOR	Add Door Switch	\$ 120.00
710004	One Year Extended Warranty on APC Secure UPS	\$ 140.00
710005	One Year Extended Warranty on APC Secure UPS Bypass	\$ 51.00
	<b>Southern Illuminated Signs</b>	
	<b>Clean Profile - Single Sided TXDOT</b>	
CP618SRDNNAAAG1	6' x 18" viewable area standard blocking background	\$ 1,516.00
CP621SRDNNAAAG2	6' x 21" viewable area standard blocking background	\$ 1,595.00
CP624SRFNNAAG1	6' x 24" viewable area standard blocking background	\$ 1,681.00
CP618SRDNNAAD1	6' x 18" viewable area with retroreflective background and EC film	\$ 1,672.00
CP621SRDNNAAD2	6' x 21" viewable area with retroreflective background and EC film	\$ 1,751.00
CP624SRFNNAAD1	6' x 24" viewable area with retroreflective background and EC film	\$ 1,751.00

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CP818SRDNNAAG1	8' x 18" viewable area standard blocking background	\$ 1,629.00
CP821SRDNNAAG2	8' x 21" viewable area standard blocking background	\$ 1,715.00
CP824SRFNNAAG1	8' x 24" viewable area standard blocking background	\$ 1,817.00
CP818SRDNNAAD2	8' x 18" viewable area with retroreflective background and EC film	\$ 1,837.00
CP821SRDNNAAD1	8' x 21" viewable area with retroreflective background and EC film	\$ 1,923.00
CP824SRFNNAAD1	8' x 24" viewable area with retroreflective background and EC film	\$ 2,025.00
CP1018SRDNNAAG1	10' x 18" viewable area standard blocking background	\$ 2,146.00
CP1018SRDNNAAG2	10' x 21" viewable area standard blocking background	\$ 2,232.00
CP1024SRFNNAAG1	10' x 24" viewable area standard blocking background	\$ 2,335.00
CP1021SRDNNAAD1	10' x 21" viewable area with retroreflective background and EC film	\$ 2,406.00
CP1018SRDNNAAD2	10' x 18" viewable area with retroreflective background and EC film	\$ 2,492.00
CP1024SRFNNAAD1	10' x 24" viewable area with retroreflective background and EC film	\$ 2,595.00
<b>Clean Profile - Double Sided TXDOT</b>		
CP618DTJNNAAG1	6' x 18" viewable area standard blocking background	\$ 1,600.00
CP621DTJNNAAG2	6' x 21" viewable area standard blocking background	\$ 1,708.00
CP624DTJNNAAG1	6' x 24" viewable area standard blocking background	\$ 2,124.00
CP618DTJNNAAD1	6' x 18" viewable area with retroreflective background and EC film	\$ 1,912.00
CP621DTJNNAAD2	6' x 21" viewable area with retroreflective background and EC film	\$ 2,020.00
CP624DTJNNAAD1	6' x 24" viewable area with retroreflective background and EC film	\$ 2,436.00
CP818DTJNNAAG1	8' x 18" viewable area standard blocking background	\$ 1,715.00
CP821DTJNNAAG2	8' x 21" viewable area standard blocking background	\$ 1,828.00
CP824DTJNNAAG1	8' x 24" viewable area standard blocking background	\$ 2,386.00
CP818DTJNNAAD1	8' x 21" viewable area with retroreflective background and EC film	\$ 2,131.00
CP821DTJNNAAD2	8' x 18" viewable area with retroreflective background and EC film	\$ 2,244.00
CP824DTJNNAAD1	8' x 24" viewable area with retroreflective background and EC film	\$ 2,802.00
CP1018DRDNNAAG1	10' x 18" viewable area standard blocking background	\$ 2,232.00
CP1018DRDNNAAG2	10' x 21" viewable area standard blocking background	\$ 2,345.00
CP1024DRFNNAAG1	10' x 24" viewable area standard blocking background	\$ 3,028.00
CP1021DRDNNAAD1	10' x 21" viewable area with retroreflective background and EC film	\$ 2,752.00
CP1018DRDNNAAD2	10' x 18" viewable area with retroreflective background and EC film	\$ 2,865.00
CP1024DRFNNAAD1	10' x 24" viewable area with retroreflective background and EC film	\$ 3,548.00
<b>Thin LED Single Sided</b>		
TL619SRDNNAAG1	6' x 19" Overall size standard blocking background	\$ 1,401.00
TL619SRDNNAAD1	6' x 19" Overall size with retroreflective film and EC overlay	\$ 1,557.00
TL819SRDNNAAG1	8' x 19" Overall size standard blocking background	\$ 1,516.00
TL819SRDNNAAD1	8' x 19" Overall size with retroreflective film and EC overlay	\$ 1,724.00
<b>Thin LED Double Sided</b>		
TL619DTJNNAAG1	6' x 19" Overall size standard blocking background	\$ 1,743.00
TL619DTJNNAAD1	6' x 19" Overall size with retroreflective film and EC overlay	\$ 2,055.00
TL819DTJNNAAG1	8' x 19" Overall size standard blocking background	\$ 1,942.00
TL819DTJNNAAD1	8' x 19" Overall size with retroreflective film and EC overlay	\$ 2,358.00
<b>Options</b>		
MISCDECAL	Logo One color logo price per side	\$ 33.00
MISCDECAL	Logo Two or more colors price per sign	\$ 65.00
PHOTOCELL-SWIVEL	Photocell Tork Swivel	\$ 26.00
Tork Int	Tork Internal	\$ 26.00
Intermatic	Intermatic (Controls up to 4)	\$ 26.00
<b>Brackets</b>		
EZ Bar Even	Free Swing from mast arm both fixed heights	\$ 189.00
BRACKET-EZ-BAR-UNEVEN	Free swing from mast arm one side adjustable	\$ 254.00
Pelco 0142	Rigid Rear Mount (Single Sided Only)	\$ 252.00
Pelco 1006	Rigid Mount top and bottom of sign (Single only)	\$ 338.00
Pelco 5148	Free Swing both fixed heights	\$ 338.00
Free Swing	Free Swing with one side extender	\$ 358.00
<b>Blank Out Signs</b>		
BO2424BBNNAAYR3-1	24" x24" Symbolic display R3-1. Size of display	\$ 2,756.00
BO2424BBNNAAYR3-2	24" x24" Symbolic display R3-2. Size of display	\$ 2,756.00
BO2430BBNNAAYR3-1T	24" x 30" 30" R3-1 with TRAIN below	\$ 3,608.00
BO3030BBNNAAYR3-1	30" x 30" Symbolic display R3-1. Size of display	\$ 3,487.00
BO3036BBNNAAYR3-1T	30" x 36" 30" R3-1 with TRAIN below in 6" single stroke letters	\$ 3,608.00

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BO2424BBNNAAY-W10-7	24" X 24" Symbolic Train R10-15 Size of Display	\$ 3,419.00
LC1818BBNNAAY-2R-2W	18" x 18" Lane Use Signal Red X and Green Arrow	\$ 3,120.00
BO3036BBNNAAY-R3(2WAY)	30" x 36" Dual Symbol Lane Use R3-5A & R3-5L	\$ 3,959.00
BO3036BBNNAAY-R3(2WAY)	30" x 36" Dual Symbol Lane Use R3-5L & R3-6L	\$ 4,178.00
	<b>Standard LED Signs</b>	
0	Single Sided	\$ -
LE619SRDNNAAG1	6' x 19" viewable area standard blocking background	\$ 1,425.00
LE624SRDNNAAG1	6' x 24" viewable area standard blocking background	\$ 1,538.00
LE819SRDNNAAG1	8' x 19" viewable area standard blocking background	\$ 1,538.00
LE824SRDNNAAG1	8' x 24" viewable area standard blocking background	\$ 1,652.00
0	Double Sided	\$ -
LE619DTJNNAAG1	6' x 19" viewable area standard blocking background	\$ 1,794.00
LE624DTJNNAAG1	6' x 24" viewable area standard blocking background	\$ 1,908.00
LE819DTJNNAAG1	8' x 19" viewable area standard blocking background	\$ 1,976.00
LE824DTJNNAAG1	8' x 24" viewable area standard blocking background	\$ 2,090.00
	<b>Aluminum NEMA 3R Enclosures &amp; ITS Commander</b>	
CE3RAL322014PMTR	32"x20"x14" Pole Mounted Control Cabinet NEMA 3R .125" 5052 Aluminum.	\$ 995.00
CE3RAL5030165BMNOPD	50"x30"x16.5" Base Mounted Control Cabinet NEMA 3R .125" 5052 Aluminum.	\$ 1,164.00
WE336S-CCTVFL-P/B	336S Pole Mount CCTV Cabinet with PDA 30 amp, 4 equipment outlets, 2 GFI outlets, fan light, shelf and drawer. No sunshields	\$ 3,504.00
WE332-DMSFL-B	332 DMS cabinet with 60 amp 120/240 Split phase PDA, fan light, shelf and drawer. No sunshield.	\$ 4,323.00
WE302424-ITSNM-P-CCTV	30"H x 24"W x 24"D Pole Mounted cabinet with power panel for CCTV 30 Amp main breaker and 2 15 amp breakers. New Mexico	\$ 3,738.00
WE302424-ITSNM-P-CCTV	30"H x 24"W x 24"D Pole Mounted cabinet with power panel for DMS, 2-30 Amp main breaker and 2-15 amp breakers. New Mexico	\$ 3,894.00
	<b>Medeco Locks</b>	
LOCK-DB-EA-100221	Nexgen Traffic Box Lock	\$ 302.00
KEY-S-EA-100156	Nexgen Electronic XT Slim Line Key	\$ 115.00
KEY-PROG-USB-S-EA-100109	Nexgen Electronic XT Slim Line Key Programmer	\$ 277.00
CHARGER-KEY-USB-CABLE-94-0290	Nexgen Electronic XT Slim Line Key Charger USB Cable	\$ 302.00
SOFTWARE-XT-PLUS-SW-500301-2	BASIC Medeco Electronic Lock and Key Software (LIMIT 750 Keyholders) ANNUAL CHARGE!!!	\$ 698.00
SOFTWARE-XT-PLUS-SW-500301-3	ADVANCED Medeco Electronic Lock and Key Software (LIMIT 750 Keyholders) Adds Remote and Mobile Programming and extended Schedules to Basic ANNUAL CHARGE!!!	\$ 2,194.00
SOFTWARE-XT-PLUS-SW-500301-4	Medeco Electronic Lock and Key Software (LIMIT 1500 Keyholders) ANNUAL CHARGE!!!	\$ 3,591.00
	<b>Southern ILSN Sign Install Labor (CTC)</b>	
CTCINSTALL	ILSN Installation to Mast Arm 2.5 hours/per sign \$260 per hour	\$ 650.00
CTCINSTALL	ILSN Installation LARGE Sign 5 hours/per sign \$260 per hour (requires site visit)	\$ 1,300.00
CTCINSTALL	ILSN Installation Wire pull cabinet to sign 2 Hours/per sign \$260 per hour	\$ 520.00
*PNS Wire	Wire for Sign (250 ft) per sign \$.35 per ft inrolls of 2,900 ft	\$ 114.00
*PNS Fuse	In Line Fuse (check with Agency to see if necessary)	\$ 65.00
	<b>Houston Radar Counters</b>	
	<b>Speedlane (2 Radars, Color HD Camera, Bluetooth)</b>	
HRSL BASE	Speedlane Base Unit (Dual Radar, Color HD Camera, Bluetooth Interface, SQL Database, RS232 and 12VDC Power, Mounting Bracket, StatsAnalyser Software)	\$ 5,064.00
HRSL SOLAR30	Solar Kit (96WHr LifePO Rechargeable Battery, 30 W Solar Panel, mounting bracket, 5 ft cable, AC Charger, On/Off Switch)	\$ 1,104.00
HRSL UPS	UPS Kit (96WHr LifePO Rechargeable Battery, AC Charger, On/Off Switch)	\$ 844.00
HRSL CELL	3G Penta Cell Modem w/ GPS (Full sized SIM and data plan NOT included)	\$

## HGACBuy

HRSL ENET	Built in Ethernet Port (for video streaming)	\$ 649.00
HRSL BIPOE	Built in Power over Ethernet	\$ 389.00
HRSL EXPOE	External Power over Ethernet Injector	\$ 103.00
HRSL 16PC	16 ft Power and Serial Cable (M12-DB9)	\$ 48.00
HRSL 33PC	33 ft Power and Serial Cable (M12-DB9)	\$ 81.00
HRSL 20EC	20 ft Ethernet Cable (M12-RJ45)	\$ 81.00
HRSL 39EC	39 ft Ethernet Cable (M12-RJ45)	\$ 140.00
HRSL BAT	External Battery Augment	\$ 168.00
HRSL 9VR	9 hours of onboard 800x60010ffps Video Recording	\$ 727.00
HRSL 18VR	18 hours of onboard 800x60010ffps Video Recording	\$ 1,039.00
HRSL BLUE	Bluetooth DongleClass 1 Windows	\$ 30.00
HRSL PWPSUP	15 Watt, 12VDC Power Supply	\$ 51.00
HRSL TETACT	Tetyon Server Client Activation (allows Callout and aggregates data in cloud)	\$ 649.00
HRSL TETLX	Tetyon Package for Ubuntu Liux	\$ -
HRSL TET MAINT	Tetyon Annual Maintenance	\$ 2,600.00
<b>Armadillo Tracker (Count and Class Radar)</b>		
HRSL BASE	Armadillo Base Unit ( LifePO Rechargeable Battery, Bluetooth Interface, USB Slow Charger, AC Quick Charger, 12V Car Charger, Mounting Bracket, ON/Off Switch, StatsAnalyser Software)	\$ 2,980.00
HRSL SOLAR5	Solar Kit ( 5 W Solar Panel, mounting bracket, 3 ft cable, Mounting Bracket)	\$ 563.00
HRSL SOLAR10	Solar Kit ( 10 W Solar Panel, mounting bracket, 3 ft cable, Mounting Bracket)	\$ 649.00
HRSL GPS	GPS Data Tagging Includes GPS Module and antenna)	\$ 311.00
HRSL CELL	3G Penta Cell Modem w/ GPS (Full sized SIM and data plan NOT included)	\$ 779.00
HRSL CASE	Weatherproof Carrying Case	\$ 260.00
<b>3M Loop Sealant</b>		
<b>3M</b>		
110501	Detector Loop Sealant (5 Gal Pail)	\$ 455.00
110506	Loop Sealant Ply-Pack	\$ 38.00
110507	Loop Sealant Ply-Pack Gun	\$ 260.00
<b>Flir Detection Products</b>		
<b>Traficon Visual Cameras(Legacy)</b>		
0	Traficon VIP/3D.1s - Vehicle Presence & Data Monitor Detector Board - 1 camera input - US Edge Connector	\$ 1,827.00
0	Traficon VIP/3D.2s - Vehicle Presence & Data Monitor Detector Board - 2 camera input - US Edge Connector	\$ 2,841.00
0	Traficon VIEWCOM/Es MAX + - Remote Monitoring & Setup Board - MPEG-4/H.264 - single slot - US Edge Connector	\$ 2,438.00
0	Traficon VIP Set Up Keypad - for DB9 Connector & Stereo Jack Connector	\$ 195.00
0	4 I/Os - Output Expansion Board - 4 outputs - single slot - US Edge Connector	\$ 514.00
0	2 I/Os - Output Expansion Board - 2 outputs - single slot - US Edge Connector	\$ 345.00
<b>Analog Thermal Imagers</b>		
0	FC-369 T2 - QVGA, 69° H FOV, NTSC	\$ 2,126.00
0	FC-344 T2 - QVGA, 44° H FOV, NTSC	\$ 2,126.00
0	FC-332 T2 - QVGA, 32° H FOV, NTSC	\$ 2,126.00
0	FC-324 T2 - QVGA, 24° H FOV, NTSC	\$ 2,126.00
0	FC-317 T2 - QVGA, 17° H FOV, NTSC	\$ 2,126.00
<b>TrafiCam Visual Vehicle Detection (Legacy)</b>		
0	TrafiCam wide angle	\$ 1,235.00
0	TrafiCam narrow angle	\$ 1,235.00
0	4TI ETH Edge - 4 outputs, SDLC via PIM module, USB, ETH - single slot - US Edge Connector	\$ 390.00
0	4/Os xp. Edge - Output Expansion Board - 4 outputs - single slot - US Edge Connector	\$ 325.00
0	4TI ETH - 16 outputs, USB, ETH	\$ 715.00
0	1TI - 4 outputs, USB	\$ 475.00
0	USB/A - USB/B Cable - for setup of 1TI, 4TI ETH and 4TI ETH Edge with PC	\$ 8.00
0	Spare Power / RS485 connector (8 pins, of which 5 pins color coded)	\$ 33.00
0	Sunshield for aluminum housing	\$ 39.00
<b>TrafiCam x-Stream2 Vehicle Detection, Traffic Data and Visual Traffic Monitoring</b>		
0	Traficam Xstream2 Digital Visual Camera with Streaming capability Wide Angle	\$ 2,730.00
0	Traficam Xstream2 Digital Visual Camera with Streaming capability Narrow Angle	\$ 2,730.00
0	TI BPL2 Edge Card (supports up to 4 Cameras)	\$ 936.00
0	TI BPL2 Edge W/ BIU and SIU Interface SDLC Interface(supports up to 4 Cameras) (if SDLC needed)	\$ 1,287.00
0	4 I/O USB - Input Output Expansion Board (If more than 4 cameras needed in an intersection)	\$ 325.00
0	TI BPL2 interface - Power Line Interface - 16 outputs	\$ 936.00
0	Spare Connector - 8 pins - BPL2 - PoE	\$ 39.00



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0	FLIR POE Interface	\$ 195.00
	<b>TraffiRadar Visual Stop Bar Detection, Traffic Data &amp; Traffic Monitoring. Radar Dilemma zone protection and Advance Detection (Radar and Visual Dual)</b>	
0	TrafiRadar BPL Dual Detection Radar and Visual	\$ 4,615.00
0	TI BPL2 Edge Card (supports up to 4 Cameras)	\$ 780.00
0	4/Os xp. Edge - Output Expansion Board - 4 outputs - single slot - US Edge Connector	\$ 325.00
0	TI x-stream BPL interface - Power Line Interface - 16 outputs	\$ 936.00
0	TI xp BPL Expansion Board	\$ 475.00
0	Spare PosewerBPL Connector (3 wire)	\$ 39.00
0	TrafiOne Thermal Pedestrian Presence Detection & Visual Traffic Monitoring	\$ 1,287.00
0	TrafiOne 195 - QQVGA, 95° H FOV, 9Hz, including HD visual stream license	\$ 1,853.00
0	TrafiOne 156 - QQVGA, 56° H FOV, 9Hz, including HD visual stream license	\$ 1,853.00
0	TrafiOne pedestrian counting license fee - optionally, to be ordered in addition with 10-7070 or 10-7075	\$ 475.00
0	TI BPL2 EDGE - interface - 4 outputs - SDLC via PIM module - double slot - US Edge Connector	\$ 936.00
0	TI BPL2 EDGE - BIU & SIU interface - 4 outputs - SDLC - double slot - US Edge Connector	\$ 1,287.00
0	4I/O USB - input/output expansion board - 4 outputs - single slot - US Edge Connector	\$ 325.00
0	TI BPL2 interface - Power Line Interface - 16 outputs	\$ 936.00
0	Ethernet interface	\$ 195.00
0	FLIR POE Interface	\$ 195.00
0	Spare Rain Shield - for 10-7075	\$ 39.00
	<b>TraffiSense2 Thermal Vehicle/Bicycle/Pedestrian Detection, Traffic Data &amp; Traffic Monitoring</b>	
0	Traffisense 2 Thermal Camera 690 (90 deg Field of View) Includes Sunshield	\$ 4,290.00
0	Traffisense 2 Thermal Camera 645 (45 deg Field of View) Includes Sunshield	\$ 4,290.00
0	Traffisense 2 Thermal Camera 632 (32 deg Field of View) Includes Sunshield	\$ 4,290.00
0	Traffisense 2 Thermal Camera 690 V2X (90 deg Field of View) Includes Sunshield (V2X Ready)	\$ 5,005.00
0	Traffisense 2 Thermal Camera 645 V2X (45 deg Field of View) Includes Sunshield (V2X Ready)	\$ 4,290.00
0	Traffisense 2 Thermal Camera 632 V2X (32 deg Field of View) Includes Sunshield (V2X Ready)	\$ 4,290.00
0	ITS-IQ Tier 1 Cloud Connectivity annual license fee (price per sensor per year)	\$ 224.00
0	ITS-IQ Tier 1 Cloud Connectivity annual license fee (price per sensor for 5 years)	\$ 1,047.00
0	ITS-IQ Tier 1 Cloud Connectivity annual license fee (price per sensor for 10 years)	\$ 1,794.00
0	ITS-IQ Tier 1 Wi-Fi Monitoring annual license fee (price per sensor per year)	\$ 897.00
0	ITS-IQ Tier 1 Wi-Fi Monitoring annual license fee (price per sensor for 5 years)	\$ 2,093.00
0	ITS-IQ Tier 1 Wi-Fi Monitoring annual license fee (price per sensor for 10 years)	\$ 2,990.00
0	Premium Traffic Data License Fee	\$ 650.00
0	Stopped Vehicle License Fee (Consult Flir for Price)	\$ -
0	TI BPL2 Edge Card (supports up to 4 Cameras)	\$ 936.00
0	TI BPL2 Edge W/ BIU and SIU Interface SDLC Interface(supports up to 4 Cameras) (if SDLC needed)	\$ 1,287.00
0	4 I/O USB - Input Output Expansion Board (If more than 4 cameras needed in an intersection)	\$ 325.00
0	TI BPL2 interface - Power Line Interface - 16 outputs	\$ 936.00
0	Spare Connector - 8 pins - BPL2 - PoE	\$ 39.00
0	FLIR POE Interface	\$ 195.00
	<b>TraffiSense 2 DUAL Thermal and Visual (for Vehicle/Bike/Pedestrian Detection, Traffic Data and Thermal AND Visual Traffic monitoring)</b>	
0	Traffisense 2 Dual Thermal Camera 690 (90 deg Field of View) Visual 30-90 Deg HD, Includes Sunshield	\$ 5,590.00
0	Traffisense 2 Dual Thermal Camera 645 (45 deg Field of View) Visual 5-50 Deg HD, Includes Sunshield	\$ 5,590.00
0	Traffisense 2 Dual Thermal Camera 632 (32 deg Field of View) Visual 5-50 Deg HD, Includes Sunshield	\$ 5,590.00
0	TI BPL2 Edge Card (supports up to 4 Cameras)	\$ 936.00
0	TI BPL2 Edge W/ BIU and SIU Interface SDLC Interface(supports up to 4 Cameras) (if SDLC needed)	\$ 1,287.00
0	4 I/O USB - Input Output Expansion Board (If more than 4 cameras needed in an intersection)	\$ 325.00
0	FLIR POE Interface	\$ 195.00
0	Spare Rain Shield - for 10-7075	\$ 39.00
	<b>Acyclica Hardware Cloud Connectivity, Travel Times/Origin - Destination, Cabinet Health Monitoring</b>	
0	DA4 Data Aggregator (Requires software license to use)	\$ 1,803.00
0	SDLC Y Cable 5 ft	\$ 338.00
0	Cabinet Interface Harness Kit	\$

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0	5 Band MIMO Antenna - SMA	\$ 182.00
0	5 Band MIMO Antenna - SMA Low Profile	\$ 345.00
0	SIM Card fro Cell Service	\$ 13.00
	<b>Acyclica 1 Yr Software Licenses and Modules (Per Location, Per Year)</b>	
0	Flir Detectors VSO (Vehicle Speed and Occupancy)1 yr License (Historical and Real Time, Images and Events)	\$ 195.00
0	NON-Flir Detectors VSO (Vehicle Speed and Occupancy as avaiable) 1 yr License	\$ 156.00
0	Travel Time (Travel and Delay Time, O/D) 1 Yr License	\$ 585.00
0	Modules requiring Travel Time Basic Module	\$ -
0	Signal Timing Tools (Advance travel and Delay Time, progression Diagram, Speed by Segment, Timing Planning)	\$ 312.00
0	Reporting Module (Route and segment Travel Time Distribution, Turning Movement Count)	\$ 312.00
0	Planning Module Advanced O/D)	\$ 312.00
	<b>Modules requiring Travel Time Basic Module AND FLIR VSO License</b>	
0	Route Performance Measures	\$ 312.00
	<b>Modules requiring Travel Time Basic Module AND Connection to Signal Phase Info</b>	
0	Intersection Performance Measures	\$ 312.00
	<b>Module Bundle</b>	
0	Flir Sensor Package (Flir VSO, Travel Time, Sinal Timing Tools, Reporting Module, Planning Module, Route Performance and intersection Performance)	\$ 2,028.00
0	Cellular Data Service 1 Yr	\$ 520.00
0	Dedicated cloud VPN (price per client group per year)	\$ 5,200.00
	<b>Acyclica 5 Yr Software Licenses and Modules (Per Location, 5 Years for price of 4)</b>	
0	Flir Detectors VSO (Vehicle Speed and Occupancy)5 yr License (Historical and Real Time, Images and Events)	\$ 780.00
0	NON-Flir Detectors VSO (Vehicle Speed and Occupancy as avaiable) 5 yr License	\$ 624.00
0	Travel Time (Travel and Delay Time, O/D) 5 Yr License	\$ 2,340.00
	<b>Modules requiring Travel Time Basic Module</b>	
0	Signal Timing Tools (Advance travel and Delay Time, progression Diagram, Speed by Segment, Timing Planning)	\$ 1,248.00
0	Reporting Module (Route and segment Travel Time Distribution, Turning Movement Count)	\$ 1,248.00
0	Planning Module Advanced O/D)	\$ 1,248.00
	<b>Modules requiring Travel Time Basic Module AND FLIR VSO License</b>	
0	Route Performance Measures	\$ 1,248.00
	<b>Modules requiring Travel Time Basic Module AND Connection to Signal Phase Info</b>	
0	Intersection Performance Measures	\$ 1,248.00
	<b>Module Bundle</b>	
0	Flir Sensor Package (Flir VSO, Travel Time, Sinal Timing Tools, Reporting Module, Planning Module, Route Performance and intersection Performance)	\$ 8,112.00
0	Cellular Data Service 5 Yr	\$ 2,600.00
0	Dedicated cloud VPN (price per client group per year)	\$ 20,800.00
	<b>DA-400 and Software Bundles</b>	
0	DA-400 5 Yr Congestion Package (Includes DA-400 with Power Cable only, Travel Time, Intersection Performance)(Must add Antenna and Harness and cell service if needed)	\$ 4,251.00
0	DA-400 5 Yr All Package (Includes DA-400 with Power Cable only, Travel Time, Intersection Performance, Signal Timing, Reporting, Planning, Route Performance) (Must add Antenna and Harness and cell service if needed)	\$ 7,995.00
	<b>API Integration and Usage</b>	
0	API Integration and Usage (Consult Flir for pricing)	\$ -
	<b>FLUX Traffic Management System</b>	
0	FLUX Traffic Mgt Sytem 1 Server License (must ALWAYS add 10-150 and 10-160 to this?)	\$ 5,590.00
0	FLUX Embedded Clustering LibraryLicense	\$ 325.00
0	FLUX Embedded Database License	\$ 325.00
0	FLUX 1 video Channel License for viewing Data Streaming	\$ 163.00
0	Queue Length & Waiting Time License - for ramp metering applications (price per single video channel)	\$ 390.00
	<b>FLIR Extended Warranty (3 Yr Standard)</b>	
0	1 additional Year Extended Warranty 7%, (5 Year Total Maximum) Add 1 to QTY)	7.00%
0	2 Additional Year Extended Warranty 14%, (5 Year Total Maximum (Add 1 to QTY)	14.00%
	<b>CTC Installation Labor (Per Hour)</b>	
CTCINSTALL	Driving Time One Man and Pickup Truck	\$ 130.00
CTCINSTALL	On Site Time One Man and Pickup Truck (2 Hr minimum including drive time)	\$ 130.00
CTCINSTALL	Second Man (Include Both Drive and On Site time)	\$ 85.00



HGACBuy

CTCINSTALL	Second Man with a Pickup to be used as a Crash Truck (Use whenever a bucket truck is needed on a two lane or larger road) (Include Both Drive and On Site time)	\$ 130.00
CTCINSTALL	Bucket Truck Upcharge (Include Both Drive and On Site Time)	\$ 50.00
CTCINSTALL	Intersection Turn on	\$ 1,350.00
CTCINSTALL	Local or Additional Intersections (Same Day)	\$ 375.00
CTCINSTALL	Mobilization Charge Per Hour (includes Site Survey and Line Locates)	\$ 130.00
CTCINSTALL	Equipment Rental	
CTCINSTALL	Travel and Other Expenses (Hotel Air rent car meals etc.)	

**AMENDMENT No. 3 to CONTRACT No. PE05-21**  
**For**  
Traffic Control, Enforcement & Signal Preemption Equipment  
**Between**  
**HOUSTON-GALVESTON AREA COUNCIL**  
**And**  
**Consolidated Traffic Controls, Inc.**


THIS AMENDMENT modifies the above referenced Contract as follows:

This contract is extended through April 30, 2025 Midnight CT.

Unless otherwise noted, this amendment goes into effect on the date signed by **H-GAC**. All other terms and conditions of this Contract shall remain unchanged and in full force and effect.


IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective duly authorized representatives.

Signed for **Houston-Galveston Area Council**,  
Houston, Texas

DocuSigned by:  
  
82EC270D5D61423...  
\_\_\_\_\_  
Chuck Wemple, Executive Director  
3/27/2024  
Date: \_\_\_\_\_

Signed for: **Consolidated Traffic Controls, Inc.**

Printed Name & Title:

DocuSigned by:  
  
4CFC215BBD244A0...  
\_\_\_\_\_  
Bryan Jones Senior Vice President  
3/22/2024  
Date: \_\_\_\_\_

**AMENDMENT No. 1 to CONTRACT No. PE05-21**  
**For**  
Traffic Control, Enforcement and Signal Preemption Equipment  
**Between**  
**HOUSTON-GALVESTON AREA COUNCIL**  
**And**  
**Consolidated Traffic Controls, Inc.**

THIS AMENDMENT modifies the above referenced Contract as follows:

Clarifies Articles 26, 27, and 28 in Special Provisions of the above referenced Agreement (#6676) should read as follows:

**ARTICLE 26: CONTRACT WORK HOURS AND SAFETY STANDARDS**

As per the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708), where applicable, all Customer Purchase Orders in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

**ARTICLE 27: PROFIT AS A SEPARATE ELEMENT OF PRICE**

For purchases using federal funds in excess of \$150,000, a Customer may be required to negotiate profit as a separate element of the price. See, 2 CFR 200.323(b). Contractor agrees to provide information and negotiate with the Customer regarding profit as a separate element of the price for the purchase. Contractor also agrees that the total price, including profit, charged by Contractor to Customer will not exceed the awarded pricing, including any applicable discount, under any awarded contract.

**ARTICLE 28: BYRD ANTI-LOBBYING AMENDMENT**

Byrd Anti-Lobbying Amendment (31 U.S.C. 1352) – Contractors that apply or bid for an award exceeding \$100,000 must file the required anti-lobbying certification. Each tier must certify to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the Customer. As applicable, Contractor agrees to file all certifications and disclosures required by, and otherwise comply with, the Byrd Anti-Lobbying Amendment (31 USC 1352). Contractor certifies that it is currently in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352) and will continue to be in compliance throughout the term of the Contract and further certifies that:

1. No Federal appropriated funds have been paid or will be paid by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal Grant, the making of a Federal Loan, the entering into a cooperative Master Agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative

Master Agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing, or attempting to influence, an officer or employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative Master Agreement, Contractor shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying”, in accordance with its instructions.
3. Contractor shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative Master Agreements) and that all subcontractors shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certificate is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Unless otherwise noted, this amendment goes into effect on the date signed by **H-GAC**. All other terms and conditions of this Contract shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective duly authorized representatives.

Signed for **Houston-Galveston Area Council**,  
Houston, Texas

DocuSigned by:



82EC270D5D61423...

Chuck Wemple, Executive Director

Date: 12/28/2021

Signed for: **Consolidated Traffic Controls, Inc.**

DocuSigned by:



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Bryan Jones Senior Vice President

Printed Name & Title:

Date: 12/27/2021

City Council Meeting  
Agenda Item  
Data Sheet

Meeting Date: May 19, 2025

Topic:

Workshop Discussion Only – Approve a professional services agreement with Langford Community Management for grant administration services related to the Texas Community Development Block Grant Community Development Fund 2025-2026 (TxCDBG CDF 2025-26) grant for an amount not-to-exceed \$75,000, therefor, and authorize the City Manager to execute any and all documents related to the services. These expenditures are to be paid from grant funds received from the TxCDBG CDF 2025-26 grant program, if received.

Background:

In July 2024, the Texas Department of Agriculture (TDA) released a call for projects to be submitted for consideration, scoring, and potential funding for the Texas Community Development Block Grant Community Development Fund in connection to the 2025-2026 TxCDBG grant by December 1, 2024. Staff utilized the draft Drainage Master Plan to identify a project that would be eligible for funding. The identified project was the “Hampton Place Storm Sewer Improvements” which includes redirecting the multi-family complex storm sewer outfall to M121-01-00 by replacing the existing inlets and constructing a new storm sewer system.

Staff submitted a preliminary grant application for a total identified grant amount not-to-exceed \$750,000 plus a local match of \$112,500 as approved by Resolution No. 2024-44 on December 2, 2024. In accordance with the terms and conditions of the TxCDBG grant and 2 CFR 200 regulations, staff advertised a Request for Proposal for grant administration services for grant application assistance and management throughout the grant term, if awarded.

Staff received four (4) sealed proposals from qualified firms. Scoring was completed by a committee to determine the most qualified firm to complete the work and based on the review staff entered into contract negotiations with Langford Community Management Services.

In anticipation of a possible award, staff is recommending awarding a professional services agreement with Langford for application assistance and management throughout the grant term, if awarded, for the TxCDBG CDF 2025-26 grant program. The agreement will include full-grant administration services including application assistance, environmental, procurement assistance, and administering and managing the grant funds, if awarded, to the City.

The total contract will not exceed \$75,000, based on the estimated project cost included in the grant application. All fees for grant administration services will be paid from grant funds, if received. A breakdown of the professional services is reflected in the table below.

TxCDBG Community Development Fund 2025-26 Hampton Place Storm Sewer Improvements		
Element	Contract Amount	Remaining Contract
Grant Administration – Langford (Application)	\$75,000	N/A
Professional Engineering – PENDING	PENDING	N/A
Construction – PENDING	PENDING	N/A

**Origination:** Project Management

**Recommendation:**

Staff recommends approving a professional services agreement with Langford Community Management Services for grant administration services related to the Texas Community Development Block Grant – Community Development Fund 2025-26 grant for an amount not-to-exceed \$75,000.

**Party(ies) responsible for placing this item on agenda:** Meagan Mageo

**FUNDING (IF APPLICABLE)**

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: X No: \_\_\_\_\_ If yes, specify Account Number: #400-154-6409

If no, funds will be transferred from account: # \_\_\_\_\_ To Account: # \_\_\_\_\_

**Signed:** Meagan Mageo **Approved by:** \_\_\_\_\_  
Staff Member Date City Manager Date

<b>A. Experience and Qualifications</b>	<b>Points Possible</b>	<b>Grantworks</b>	<b>Langford</b>	<b>GTC 360 Advisors</b>	<b>Public Management</b>
1. Experience with application grant writing and project delivery services for State and Federally funded projects	15	15	15	12	15
2. Experience working with the Cities and	15	15	15	12	15
<b>B. Work Performance</b> (references and prior experience with firm)					
1. Work product is consistently of high quality	5	5	5	5	5
2. Facilitates completion of project activities on schedule	5	5	5	5	5
3. Understands the approach for project implementation	5	5	5	3	5
4. References from current/past clients	10	0	0	0	0
<b>C. Capacity to Perform</b>					
1. Staffing level/experience, special skills	15	15	15	12	15
2. Understanding of Federally funded grants	15	15	15	15	15
<b>D. Affirmative Action</b>					
1. Firm is a Historically Underutilized Business (include Comptroller Certificate in proposal)	10	0	10	0	0
<b>E. Proposed Fee</b>					
1. Price is reasonable considering the firm's experience and qualifications	5	5	4	3	5
<b>OVERALL SCORING SUMMARY</b>	<b>Points Possible</b>	<b>Points Awarded</b>	<b>Points Awarded</b>	<b>Points Awarded</b>	<b>Points Awarded</b>
A. Experience of Firm	30	30	30	24	30
B. Work Performance/Program Implementation	25	15	15	13	15
C. Capacity to Perform	30	30	30	27	30
D. Affirmative Action	10	0	10	0	0
E. Proposed Fee	5	5	4	3	5
<b>TOTAL SCORE</b>	<b>100</b>	<b>80</b>	<b>89</b>	<b>67</b>	<b>80</b>

<b>A. Experience and Qualifications</b>	<b>Points Possible</b>	<b>Grantworks</b>	<b>Langford</b>	<b>GTC 360 Advisors</b>	<b>Public Management</b>
1. Experience with application grant writing and project delivery services for State and Federally funded projects	15	15	15	12	12
2. Experience working with the Cities and Counties	15	15	15	10	15
<b>B. Work Performance</b> (references and prior experience with firm)					
1. Work product is consistently of high quality	5	4	4	4	3
2. Facilitates completion of project activities on schedule	5	4	4	4	3
3. Understands the approach for project implementation	5	5	5	4	4
4. References from current/past clients	10	10	10	9	8
<b>C. Capacity to Perform</b>					
1. Staffing level/experience, special skills	15	12	10	10	12
2. Understanding of Federally funded grants	15	15	15	15	15
<b>D. Affirmative Action</b>					
1. Firm is a Historically Underutilized Business (include Comptroller Certificate in proposal)	10	0	10	0	0
<b>E. Proposed Fee</b>					
1. Price is reasonable considering the firm's experience and qualifications	5	3	4	2	5
<b>OVERALL SCORING SUMMARY</b>	<b>Points Possible</b>	<b>Points Awarded</b>	<b>Points Awarded</b>	<b>Points Awarded</b>	<b>Points Awarded</b>
A. Experience of Firm	30	30	30	22	27
B. Work Performance/Program Implementation	25	23	23	21	18
C. Capacity to Perform	30	27	25	25	27
D. Affirmative Action	10	0	10	0	0
E. Proposed Fee	5	3	4	2	5
<b>TOTAL SCORE</b>	<b>100</b>	<b>83</b>	<b>92</b>	<b>70</b>	<b>77</b>



<b>A. Experience and Qualifications</b>	<b>Points Possible</b>	<b>Grantworks</b>	<b>Langford</b>	<b>GTC 360 Advisors</b>	<b>Public Management</b>
1. Experience with application grant writing and project delivery services for State and Federally funded projects	15	12	15	5	12
2. Experience working with the Cities and Counties	15	15	15	2	12
<b>B. Work Performance</b> (references and prior experience with firm)					
1. Work product is consistently of high quality	5	4	5	2	3
2. Facilitates completion of project activities on schedule	5	4	5	3	3
3. Understands the approach for project implementation	5	5	5	2	4
4. References from current/past clients	10	10	10	2	4
<b>C. Capacity to Perform</b>					
1. Staffing level/experience, special skills	15	15	15	10	15
2. Understanding of Federally funded grants	15	15	15	10	15
<b>D. Affirmative Action</b>					
1. Firm is a Historically Underutilized Business (include Comptroller Certificate in proposal)	10	5	10	0	5
<b>E. Proposed Fee</b>					
1. Price is reasonable considering the firm's experience and qualifications	5	4	3	1	5
<b>OVERALL SCORING SUMMARY</b>	<b>Points Possible</b>	<b>Points Awarded</b>	<b>Points Awarded</b>	<b>Points Awarded</b>	<b>Points Awarded</b>
A. Experience of Firm	30	27	30	7	24
B. Work Performance/Program Implementation	25	23	25	9	14
C. Capacity to Perform	30	30	30	20	30
D. Affirmative Action	10	5	10	0	5
E. Proposed Fee	5	4	3	1	5
<b>TOTAL SCORE</b>	<b>100</b>	<b>89</b>	<b>98</b>	<b>37</b>	<b>78</b>

**RFP for Grant Administration Services for CDBG  
Committee Scoring Summary**

	<b>Grantworks</b>	<b>Langford</b>	<b>GTC 360 Advisors</b>	<b>Public Management</b>
Evaluator One	80	89	67	80
Evaluator Two	83	92	70	77
Evaluator Three	89	98	37	78
<b>Total</b>	<b>252</b>	<b>279</b>	<b>174</b>	<b>235</b>
Average	84	93	58	78

## MANAGEMENT/ADMINISTRATION SERVICES CONTRACT

### PART I AGREEMENT

THIS AGREEMENT, entered into this 3rd day of June 2025 by and between the CITY OF TOMBALL, hereinafter called the "City", acting herein by David Esquivel, City Manager, hereunto duly authorized, and LANGFORD COMMUNITY MANAGEMENT SERVICES, INC. hereinafter called "the Contractor", acting herein by Judy Langford, Owner.

#### WITNESSETH THAT:

WHEREAS, the CITY OF TOMBALL desires to submit an application for a Texas Community Development Block Grant (hereinafter called "TxCDBG") Program for a Texas Community Development Fund (CD) project through the Texas Department of Agriculture (TDA); **and with funding**, desires to implement/construct the project.

WHEREAS, the City desires to engage LANGFORD COMMUNITY MANAGEMENT SERVICES, INC to render certain professional administrative services in connection with this 2025-2026 TxCDBG application/project requiring application preparation and subsequent administration of the project. Payment of the fees described in Part III shall be contingent on CDBG funding. In the event that grant funds are not awarded to the City by TDA through the TxCDBG program, this agreement shall be terminated by the City.

NOW THEREFORE, the parties do mutually agree as follows:

1. Scope of Services

The Contractor will perform the services set out in Part II, Scope of Services.

2. Time of Performance - The services of the Contractor shall commence on June 3, 2025. In any event, all of the services required and performed hereunder shall be completed no later than two years after the contractual obligation for the funds from TDA or final close-out documentation received from the TxCDBG Program.

3. Local Program Liaison - For purposes of this Contract, the City Manager or equivalent authorized person will serve as the Local Program Liaison and primary point of contact for the Contractor. All required progress reports and communication regarding the project shall be directed to this liaison and other local personnel as appropriate.

4. Access to Records - The U.S. Department of Housing and Urban Development (HUD), Inspectors General, the Comptroller General of the United States, the Texas Department of Agriculture (TDA), and the City, or any of their authorized representatives, shall have access to any documents, papers, or other records of the Contractor which are pertinent to the TxCDBG award, in order to make audits, examinations, excerpts, and transcripts, and to close out the City TxCDBG contract with TDA. (2 CFR 200.336)

5. Retention of Records - The Contractor shall retain all required records for three years after the City makes its final payment and all pending matters are closed. (2 CFR 200.333)

6. Compensation and Method of Payment - The maximum amount of compensation and reimbursement to be paid hereunder for the preparation, development and submission of an application will be \$0.00 **and with funding of the project** an amount not to exceed \$ 75,000.00 for the administration and management of the project will be contractually obligated. Payment to the Contractor shall be based on satisfactory

completion of identified milestones in Part III - Payment Schedule of this Agreement. Invoicing will occur as milestones are completed. Payment is due 30 days upon receipt from contractor.

7. Indemnification – The Contractor shall comply with the requirements of all applicable laws, rules and regulations, and shall exonerate, indemnify, and hold harmless the City and its agency members from and against any and all claims, costs, suits, and damages, including attorneys’ fees, arising out of the Contractor’s performance or nonperformance of the activities, services or subject matter called for in this agreement or in connection with the management and administration of the TxCDBG contract, and shall assume full responsibility for payments of Federal, State and local taxes on contributions imposed or required under the Social Security, worker’s compensation and income tax laws.
8. Miscellaneous Provisions
- a. This Agreement shall be construed under and in accord with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Montgomery County, Texas.
  - b. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors and assigns where permitted by this Agreement.
  - c. In any case one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision thereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.
  - d. If any action at law or in equity is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney’s fees, costs, and necessary disbursements in addition to any other relief to which such party may be entitled.
  - e. This Agreement may be amended by mutual agreement of the parties hereto and a writing to be attached to and incorporated into this Agreement.

9. Extent of Agreement
- This Agreement, which includes Parts I-V, represents the entire and integrated agreement between the City and the Contractor and supersedes all prior negotiations, representations or agreements, either written or oral for this project. This Agreement may be amended only by written instrument signed by authorized representatives of both City and Contractor.

IN WITNESSETH WHEREOF, the parties have executed this Agreement by causing the same to be signed on the day and year first above written.

**CITY OF TOMBALL**

**LANGFORD COMMUNITY MANAGEMENT SERVICES**

BY: \_\_\_\_\_  
(Local City Official)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Title)

BY: \_\_\_\_\_  
(Contractor's Authorized Representative)

\_\_\_\_\_  
Judy Langford  
(Printed Name)

\_\_\_\_\_  
Owner  
(Title)

## PART II

### SCOPE OF SERVICES

The Contractor shall provide the following scope of services:

#### **Scope 1 - Application Preparation and Submission:**

Grant writing and application development to include preparation of notices for paper, attendance/presentation for required public hearing, preparation of resolution authorizing submission, completion of applications forms except for Table 2 and maps (to be provided by engineer) and general assistance in the development of the proposed project for the application.

#### **Scope 2 – Management of Project with the Receipt of Funding:**

##### **A. Project Management**

1. Develop a recordkeeping system consistent with program guidelines, including the establishment of a filing system.
2. Maintenance of filing system.
3. Provide general advice and technical assistance to the City personnel on implementation of project and regulatory matters.
4. Assist in the procurement of professional consulting engineering services through the request for proposal process, if applicable, and as required by the TxCDBG regulations.
5. Furnish City with necessary forms and procedures required for implementation of project.
6. Assist the City in meeting all special condition requirements that may be stipulated in the contract between the City and TDA.
7. Prepare and submit to TDA documentation necessary for amending the TxCDBG contract.
8. Conduct re-assessment of environmental clearance for any program amendments.
9. Prepare and submit quarterly reports (progress and minority hiring).
10. Prepare and submit Financial Interest Reports (FIR) for City.
11. Establish procedures to document expenditures associated with local administration of the project.
12. Provide guidance and assistance to City regarding acquisition of property:
  - Submit required reports concerning acquisition activities to TDA;
  - Establish a separate acquisition file for each parcel of real property acquired.
  - Determine necessary method(s) for acquiring real property.
  - Prepare correspondence to the property owners for the City's signature to acquire the property or to secure an easement; and
  - Assist the City in negotiation with property owner(s).
13. Maintain TxCDBG Property Management register for any property/equipment purchased or leased.
14. Serve as liaison for the City during any monitoring visit by staff representatives from either TDA or the U.S. Department of Housing and Urban Development (HUD).

##### **B. Financial Management**

1. Assist the City in proving its ability to manage the grant funds to the state's audit division.
2. Assist the City in establishing and maintaining a bank account (Direct Deposit account) and/or separate local bank account, journals and ledgers.
3. Assist the City in submitting the required Accounting System Certification letter, Direct Deposit Authorization Form (if applicable), and/or Depository/Authorized Signatory form to TDA.
4. Prepare all fund drawdowns on behalf of the City in order to ensure orderly, timely payments to all contracting parties within the allotted time period.
5. Review invoices received for payment and file back-up documentation.
6. Provide general advice and technical assistance to City personnel on implementation of project and regulatory matters.
7. Assist the City in establishing procedures to handle the use of any TxCDBG program income.

C. Environmental Review

1. Prepare environmental assessment.
2. Coordinate environmental clearance procedures with other federal or state agencies and interested parties responsible for implementing applicable laws.
3. Document consideration of any public comments.
4. Prepare any required re-assessment of environmental assessment.
5. Prepare Request for Release of Funds and certifications to be sent to TDA.

D. Acquisition

1. Prepare required acquisition reports(s).
2. Obtain documentation of ownership for City-owned property and/or Right of Way (ROWs).
3. Maintain a separate file for each parcel of real property acquired.
4. Determine necessary method(s) for acquiring real property.
5. Prepare correspondence with property owners.
6. Assist City in negotiations with property owner(s).
7. Prepare required acquisition reports and submit to TDA.

E. Construction Management

1. Establish procedures to document expenditures associated with local construction of the project (if force account is applicable).
  - Assist City in determining whether and/or what TxCDBG contract activities will be carried out in whole or in part via force account labor.
  - Assist City in determining whether it will be necessary to hire temporary employees to specifically carry out TxCDBG contract activities.
  - Assist City in maintaining adequate documentation of personnel, equipment and materials expended/used and their costs.
2. Assist City in documenting compliance with all federal and state requirements related to equal employment opportunity.
3. Assist City in documenting compliance with all federal and state requirements related to minimum wage and overtime pay requirements.
4. Provide assistance to or act as local labor standards officer. Notify TDA in writing of name, address, and phone number of appointed labor standards compliance officer.
5. Obtain wage rates from U.S. DOL website.
6. Provide sample TxCDBG contract documents to engineer.
7. Advertise for bids.
8. Make ten-day call to TDA.
9. Verify construction contractor eligibility with SAMS.gov.
10. Review construction contract.
11. Conduct pre-construction conference and prepare minutes.
12. Submit any reports of additional classification and rates to TDA.
13. Issue Labor Standards Record to TDA.
14. Review weekly payrolls, including compliance follow-ups. Conduct employee interviews.
15. Process change orders approved by City and the project engineer and submit to TDA prior to execution with the construction contractor.
16. Obtain Certificate of Construction Completion/Final Wage Compliance Report and submit to TDA.
17. Provide general advice and technical assistance to City personnel on implementation of project and regulatory matters.

F. Fair Housing / Equal Opportunity

1. Assist the City in developing, implementing, and documenting new activities to affirmatively further fair housing during the contract period.
2. Maintain documentation of all project beneficiaries by ethnicity and gender.
3. Assist with the development and administration of the Citizen Participation Plan per 24 CFR Part 91, including grievance procedures.
4. Assist with Section 3 requirements per 24 CFR Part 135.
5. Prepare all Section 504 requirements per 24 CFR Part 8.
6. Provide all applicable equal opportunity provisions and certifications for inclusion in bid packet.
7. Ensure adoption of Excessive Force provision per 24 CFR Part 91.

8. Ensure the adequate publication of required notices.

G. Audit / Close-out Procedures

1. Prepare the final Project Completion Report, including the General Report, Recipient Beneficiary Report, Final Financial Interest Report, and any required documentation regarding citizen participation/equal rights/fair housing and Certificate of Completion.
2. Assist City in resolving any monitoring and audit findings.
3. Assist City in resolving any third-party claims.
4. Provide auditor with TxCDBG audit guidelines.

**PART III**  
**PAYMENT SCHEDULE**

The City shall reimburse Langford Community Management Services, Inc for management/administrative services provided for completion of the following project milestones in the following amounts:

<b>Milestone / Task</b>	<b>Contract Fee</b>
• Establishment of Recordkeeping System	\$7,500.00
• Completion with EEO/Fair Housing Requirements/Reporting	\$7,500.00
• Compliance with Environmental/Special Conditions Clearance	\$11,250.00
• Acquisition of real property services	\$2,250.00
• Contract/Financial Project Management	\$12,750.00
• Procurement of Construction Contractor/Submittal of required documentation	\$7,500.00
• Labor Standards Compliance/50% Completion of Construction	\$11,250.00
• Completion and filing of all Construction and Labor Standards documents	\$7,500.00
• Filing of all Required Close-out Documentation	\$7,500.00
<b>Total</b>	<b>\$75,000.00</b>

## PART IV

### TERMS AND CONDITIONS

1. Termination for Cause. If the Contractor fails to fulfill in a timely and proper manner its obligations under this Agreement, or if the Contractor violates any of the covenants, conditions, agreements, or stipulations of this Agreement, the City shall have the right to terminate this Agreement by giving written notice to the Contractor of such termination and specifying the effective date thereof, which shall be at least five days before the effective date of such termination. In the event of termination for cause, all finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs and reports prepared by the Contractor pursuant to this Agreement shall, at the option of the City, be turned over to the City and become the property of the City. In the event of termination for cause, the Contractor shall be entitled to receive reasonable compensation for any necessary services actually and satisfactorily performed prior to the date of termination.

Notwithstanding the above, the Contractor shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of contract by the Contractor, and the City may set-off the damages it incurred as a result of the Contractor's breach of contract from any amounts it might otherwise owe the Contractor. [2 CFR 200 Appendix II(B)]

2. Termination for Convenience of the City. The City may at any time and for any reason terminate Contractor's services and work at City's convenience upon providing written notice to the Contractor specifying the extent of termination and the effective date. Upon receipt of such notice, Contractor shall, unless the notice directs otherwise, immediately discontinue the work and placing of orders for materials, facilities and supplies in connection with the performance of this Agreement.

Upon such termination, Contractor shall be entitled to payment only as follows: (1) the actual cost of the work completed in conformity with this Agreement; plus, (2) such other costs actually incurred by Contractor as are permitted by the prime contract and approved by City; (3) plus ten percent (10%) of the cost of the work referred to in subparagraph (1) above for overhead and profit. There shall be deducted from such sums as provided in this subparagraph the amount of any payments made to Contractor prior to the date of the termination of this Agreement. Contractor shall not be entitled to any claim or claim of lien against City for any additional compensation or damages in the event of such termination and payment. [2 CFR 200 Appendix II(B)]

3. Changes. The City may, from time to time, request changes in the services the Contractor will perform under this Agreement. Such changes, including any increase or decrease in the amount of the Contractor's compensation, must be agreed to by all parties and finalized through a signed, written amendment to this Agreement.
4. Resolution of Program Non-Compliance and Disallowed Costs. If the TxCDBG program imposes a reduction in administrative grant funds due to non-compliance and/or disallowed costs as stipulated by the agency, the contracting parties will negotiate an agreement of payment. If the non-compliance and/or disallowed costs is (are) not the fault or in control of the consulting firm, the City will be responsible for the difference in grant funds. If the negotiation phase between the contracting entities does not reach an agreement, executives of the contracting entities, with decision-making authority, will enter into mediation to facilitate a settlement by employing a skilled neutral, not to impose a solution, but to assist the parties in reaching agreement. A final binding Arbitration Phase will occur in case the non-binding phase produces no settlement. [2 CFR 200 Appendix II(A)]
5. Personnel.
  - a. The Contractor represents that he/she/it has, or will secure at its own expense, all personnel required in performing the services under this Agreement. Such personnel shall not be employees of or have any contractual relationship with the City.



- b. All of the services required hereunder will be performed by the Contractor or under its supervision and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under State and Local law to perform such services.
  - c. None of the work or services covered by this Agreement shall be subcontracted without the prior written approval of the City. Any work or services subcontracted hereunder shall be specified by written contract or agreement and shall be subject to each provision of this Agreement.
6. Assignability. The Contractor shall not assign any interest on this Agreement and shall not transfer any interest in the same (whether by assignment or novation), without the prior written consent of the City thereto; Provided, however, that claims for money by the Contractor from the City under this Agreement may be assigned to a bank, trust company, or other financial institution without such approval. Written notice of any such assignment or transfer shall be furnished promptly to the City.
7. Reports and Information. The Contractor, at such times and in such forms as the City may require, shall furnish the City such periodic reports as it may request pertaining to the work or services undertaken pursuant to this Agreement, the costs and obligations incurred or to be incurred in connection therewith, and any other matters covered by this Agreement.
8. Records and Audits. The Contractor shall ensure that the City maintains fiscal records and supporting documentation for all expenditures of funds made under this contract in a manner that conforms to 2 CFR 200.300-.309, 24 CFR 570.490, and this Agreement. Such records must include data on the racial, ethnic, and gender characteristics of persons who are applicants for, participants in, or beneficiaries of the funds provided under this Agreement. City shall retain such records, and any supporting documentation, for the greater of three years from closeout of the Agreement or the period required by other applicable laws and regulations.
9. Findings Confidential. All of the reports, information, data, etc., prepared or assembled by the Contractor under this contract are confidential and the Contractor agrees that they shall not be made available to any individual or organization without the prior written approval of the City.
10. Copyright. No report, maps, or other documents produced in whole or in part under this Agreement shall be the subject of an application for copyright by or on behalf of the Contractor.
11. Compliance with Local Laws. The Contractor shall comply with all applicable laws, ordinances and codes of the State and local governments, and the Contractor shall save the City harmless with respect to any damages arising from any tort done in performing any of the work embraced by this Agreement.
12. Conflicts of interest.
- a. Governing Body. No member of the governing body of the City and no other officer, employee, or agent of the City, who exercises any functions or responsibilities in connection with administration, construction, engineering, or implementation of the TxCDBG award between TDA and the City shall have any personal financial interest, direct or indirect, in the Contractor or this Agreement; and the Contractor shall take appropriate steps to assure compliance.
  - b. Other Local Public Officials. No other public official who exercises any functions or responsibilities in connection with the planning and carrying out of administration, construction, engineering or implementation of the TxCDBG award between TDA and the City shall have any personal financial interest, direct or indirect, in the Contractor or this Agreement; and the Contractor shall take appropriate steps to assure compliance.
  - c. Contractor and Employees. The Contractor warrants and represents that it has no conflict of interest associated with the TxCDBG award between TDA and the City or this Agreement. The Contractor further warrants and represents that it shall not acquire an interest, direct or indirect, in any geographic

area that may benefit from the TxCDBG award between TDA and the City or in any business, entity, organization or person that may benefit from the award. The Contractor further agrees that it will not employ an individual with a conflict of interest as described herein.

13. Debarment and Suspension (Executive Orders 12549 and 12689). The Contractor certifies, by entering into this Agreement, that neither it nor its principals are presently debarred, suspended, or otherwise excluded from or ineligible for participation in federally assisted programs under Executive Orders 12549 (1986) and 12689 (1989). The term "principal" for purposes of this Agreement is defined as an officer, director, owner, partner, key employee, or other person with primary management or supervisory responsibilities, or a person who has a critical influence on or substantive control over the operations of the Contractor. The Contractor understands that it must not make any award or permit any award (or contract) at any tier to any party which is debarred or suspended or is otherwise excluded from or ineligible for participation in Federal assistance programs under Executive Order 12549, "Debarment and Suspension."

14. Equal Opportunity Clause (applicable to contracts and subcontracts over \$10,000).

During the performance of this contract, the Contractor agrees as follows:

- a. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- b. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- c. The Contractor will not discourage or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- d. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- e. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, "Equal Employment Opportunity," and of the rules, regulations, and relevant orders of the Secretary of Labor.
- f. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- g. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

- h. The Contractor will include the portion of the sentence immediately preceding paragraph (a) and the provisions of paragraphs (a) through (h) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the Contractor may request the United States to enter into such litigation to protect the interests of the United States. [41 CFR §60-1.4(b) and 2 CFR 200 APPENDIX II (C)]
15. Civil Rights Act of 1964. Under Title VI of the Civil Rights Act of 1964, no person shall, on the grounds of race, color, religion, sex, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.
16. Section 109 of the Housing and Community Development Act of 1974. The Contractor shall comply with the provisions of Section 109 of the Housing and Community Development Act of 1974. No person in the United States shall on the ground of race, color, national origin, religion, or sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title.
17. Section 504 Rehabilitation Act of 1973, as amended. The Contractor agrees that no otherwise qualified individual with disabilities shall, solely by reason of his/her disability, be denied the benefits of, or be subjected to discrimination, including discrimination in employment, under any program or activity receiving federal financial assistance.
18. Age Discrimination Act of 1975. The Contractor shall comply with the Age Discrimination Act of 1975 which provides that no person in the United States shall on the basis of age be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.
19. Economic Opportunities for Section 3 Residents and Section 3 Business Concerns.
- a. The work to be performed under this contract is subject to the requirements of section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (section 3). The purpose of section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- b. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 75, which implement section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 75 regulations.
- c. The Contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 75, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 75. The Contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 75.
- d. The Contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the Contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 75 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 75. Minimum expectations of effort to direct employment opportunities to such workers are identified in the TxCDBG Project Implementation Manual.

**CONFLICT OF INTEREST QUESTIONNAIRE****FORM CIQ****For vendor doing business with local governmental entity**

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

**OFFICE USE ONLY**

Date Received

**1** Name of vendor who has a business relationship with local governmental entity.

*N/A No Conflict of Interest*

**2** ☐ Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

**3** Name of local government officer about whom the information is being disclosed.

\_\_\_\_\_  
Name of Officer

**4** Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes ☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

**5** Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

**6** ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

**7**

\_\_\_\_\_  
Signature of vendor doing business with the governmental entity

June 3, 2025

\_\_\_\_\_  
Date

**CONFLICT OF INTEREST QUESTIONNAIRE**  
**For vendor doing business with local governmental entity**

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

**Local Government Code § 176.001(1-a):** "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

**Local Government Code § 176.003(a)(2)(A) and (B):**

- (a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

\*\*\*

- (2) the vendor:

- (A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that
  - (i) a contract between the local governmental entity and vendor has been executed; or
  - (ii) the local governmental entity is considering entering into a contract with the vendor;
- (B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:
  - (i) a contract between the local governmental entity and vendor has been executed; or
  - (ii) the local governmental entity is considering entering into a contract with the vendor.

**Local Government Code § 176.006(a) and (a-1)**

- (a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

- (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
- (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
- (3) has a family relationship with a local government officer of that local governmental entity.

- (a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

- (1) the date that the vendor:

- (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
- (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

- (2) the date the vendor becomes aware:

- (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
- (B) that the vendor has given one or more gifts described by Subsection (a); or
- (C) of a family relationship with a local government officer.

City Council Meeting  
Agenda Item  
Data Sheet

Meeting Date: May 19, 2025

Topic:

Workshop Discussion Only – Approve a contract with Topwater Construction Services, LLC through a TIPS-USA contract (Contract No. 211001), for repairs to the drainage area along Zion Road, for an amount of \$38,500,approve the expenditure of funds thereof, and authorize the City Manager to execute any and all documents related to the purchases. This expenditure is included in the Fiscal Year 2024-2025 Budget.

Background:

Topwater Construction Services, Inc.is a general contractor company located in Katy, Texas. Topwater is a commercial general contractor specializing in new construction, renovation, and restoration of schools, hospitals, government buildings, and other construction type components.

The area between Polaris Blvd and Wickford Dr needs drainage repairs that include regrading, replacement of drain exits, resodding, and soil compaction.

Topwater provided a contract for services outlining the recommended drainage repairs to improve the water flow along Zion Road.

Based on the City’s adopted Procurement Policy purchases in excess of \$50,000 to one vendor require City Council approval. Staff is requesting approval of a contract with Topwater Construction Services, LLC for a not-to-exceed amount of \$38,500 since the vendor has exceeded the \$50,000 expenditure threshold for the current fiscal year, current vendor expenditures for the fiscal year is shown below.

Service	Amount
Previously Approved Expenditures (PD Restroom Remodel	\$140,000
Zion Road Sidewalk Drainage Repaires	\$38,500
Total Anticipated Expenditures	\$178,500

This item authorizes a contract with Topwater Construction Services, LLC for a total contract amount not-to-exceed \$178,500 through a TIPS-USA contract (Contract No. 211001).

Origination: Public Works

Recommendation:

Staff recommends approving a contract with Topwater Construction Services, LLC for a total contract amount not-to-exceed \$38,500 through a TIPS-USA contract (Contract No. 211001).

Party(ies) responsible for placing this item on agenda: Drew Huffman, Public Works  
Director

**FUNDING (IF APPLICABLE)**

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: \_\_\_\_\_ No: \_\_\_\_\_ If yes, specify Account Number: #100-154-6207

If no, funds will be transferred from account # \_\_\_\_\_ To account # \_\_\_\_\_

Signed	Drew Huffman	Date	Approved by		Date
	Staff Member			City Manager	





Client: **City of Tomball**  
 Client Contact: Justin Pruitt  
 Architect/Plans: N/A  
 Architect Contact: N/A  
 MEP Engineer: N/A  
 Engineer Contact: N/A

## City of Tomball

### Zion Road Landscaping Repairs

Suite # N/A  
 Zion Road  
 Tomball 77375  
 Project S/F 0  
 Date 04.22.25

DESCRIPTION			TOTAL
Division 1	General Conditions - Includes Project Insurance, Part Time Supervision for duration of project.		\$1,687.51
Division 2	Demolition	Excluded	\$0.00
Division 3	Concrete	Excluded	\$0.00
Division 4	Masonry/Plaster	Excluded	\$0.00
Division 5	Structural Steel/PEMB	Excluded	\$0.00
Division 6	Millwork/Casework	Excluded	\$0.00
Division 7	Thermal/Moisture Protection/Waterproofing	Excluded	\$0.00
Division 8	Doors/Frames/Hardware	Excluded	\$0.00
	Glass and Glazing	Excluded	\$0.00
Division 9	Drywall/Acoustical Ceiling Tile	Excluded	\$0.00
	Interior Painting	Excluded	\$0.00
	Carpet/VCT/Base	Excluded	\$0.00
	Wood Flooring	Excluded	\$0.00
	Ceramic/Marble/Stone	Excluded	\$0.00
Division 10	Specialties & FE/FEC's	Excluded	\$0.00
Division 11	Equipment and Appliances	Excluded	\$0.00
Division 12	Window Treatments/Blinds/Shades	Excluded	\$0.00
Division 13	Special Construction	Excluded	\$0.00
Division 14	Conveying Systems/Elevators	Excluded	\$0.00
Division 15	Fire Protection (Sprinklers)	Excluded	\$0.00
	Plumbing	Excluded	\$0.00
	Mechanical/HVAC	Excluded	\$0.00
Division 16	Electrical	Excluded	\$0.00
	Fire Alarm	Excluded	\$0.00
	Security/Security Hardware	Excluded	\$0.00
	Landscaping	Included	\$33,105.00
	Architectural/MEP's/TAS Review/Reimbursables	Excluded	\$0.00
	Workers Comp Insurance	Excluded	\$0.00
		SUBTOTAL	\$34,792.51
		OH/P	\$3,566.23
		Tax @ 8.25%	\$0.00
		BASE BID TOTAL	\$38,358.74
		APPROVED ALTERNATES	\$0.00
		CONTRACT TOTAL	\$38,358.74

TIPS #211001

Please sign and date if APPROVED

Prepared by: David Darnell

281.347.4010 Direct

214.616.6249 Mobile

[david@topwatercsllc.com](mailto:david@topwatercsllc.com)



## City of Tomball

### Zion Road Landscaping Repairs

Suite #	N/A
Zion Road	
Tomball	77375
Project S/F	0
Date	04.22.25

### NOTES & CLARIFICATIONS

- 1 Topwater Construction Services is pleased to submit for your review our bid City of Tomball  
Our pricing is based on: Walk thru of site on April 10, 2025 with Justin Pruitt City Of Tomball
- 2 Upon acceptance of the terms of this contained in this proposal, Owner acknowledges and agrees that it shall provide all the informational items listed in the Texas Business and Commerce Code 56.054 (d) and (e).
- 3 Proposal is based on work being completed during normal working hours (M-F). Part time Supervision is included in proposal. Final project duration will be determined once lead-times are established.
- 4 Any subsurface obstructions which are not evident during pricing development and which must be altered may cause pricing adjustments. Proposal does not include any major floor prep or floor leveling. Minor floor prep is excluded.
- 5 Anything not specifically noted and/or detailed on the drawings is excluded. Proposal does not include the removal of existing pony walls that cannot be seen during pre-bid site walk-through.
- 6 Proposal EXCLUDES permit fees for permitting in City of Tomball and permitting services are excluded. Proposal excludes providing any special trash and/or recycle cans if city requires such.
- 7 Proposal does not include any hazardous materials testing / abatement. Proposal does not include cost for material testing or temporary utilities. Proposal excludes designing and/or engineering this project.
- 8 Proposal excludes providing and/or repairing any blinds and/or window treatments. Proposal excludes all furniture and/or equipment moving. Proposal excludes relocation of existing fire sprinkler mains and branch lines for ducts or light fixtures. Proposal excludes existing door, door frame, mullion, and window sill repairs, replacement an touch-up.
- 9 Proposal does not include the cost for any ADA or TAS modifications, other than what is shown on the plans. Proposal excludes re-keying and/or keying. Proposal excludes any and all roofing work unless specifically noted in this proposal.
- 10 Proposal excludes providing and installing fire dampers and fire smoke dampers not specifically shown on the drawings. Proposal also excludes return air boots not specifically shown on the drawings.
- 11 Proposal does not include any tele/data/security equipment or hardware. Proposal does not include any telephone, data or security cabling or any work for these trades. Proposal excludes all security work and all telephone/data work.
- 12 Proposal does not include any warranty, state or local code upgrades on existing equipment and or finishes.
- 13 Proposal may or may not comply with the IECC due to unknown variables. Compliance with the code may affect the final price relating to, but not limited to, lighting conservation, dual switching and occupancy sensors.
- 14 **Scope of work:** Topwater Construction Services bid proposal to furnish all labor, materials and equipment necessary to grade and sod approx. 11,000 sf along Zion Rd. between ditch and brick fence. Approximatley 3' each side of sidewalk. Work area will be 800 ft East and West of the intersection of Zion Rd. and Polaris Blvd. It will extend down to the wood fence on the West side of Polaris Blvd and the drainage easement on the east side of Polaris Blvd.  
The work area will be between brick fence and sidewalk and 3' towards ditch from sidewalk.  
Up to 8 loads of grading material will be used, Up to 27 pallets of St. Augustine will be used. We will check the condition of 5 existing drain exits. Any repairs, extensions, or adjustments will be priced separately. Grade will be built up halfway up the first brick layer on existing brick fence as requested. The sidewalk in the work area will be cleaned after project completion. All work debris and materials will be hauled off. Topwater Construction or Outdoor Perfection will not be responsible for watering of the newly laid sod. No drainage or irrigation work will be performed.  
Per our conversation, the existing French drain is located on the residential side of the brick fence and will not require access unless requested by City of Tomball. After raising the grade against the brick fence, it will restrict surface water from flowing under the brick fence. The entry at Polaris Blvd. will be used as material staging area and will not resist access to entry. Material will be used on a daily basis to keep area clean. Duration of work is 7 days weather permitting.
- 15 **Exclusions** - Permits, Plumbing, HVAC, Painting, Drywall, Flooring, Toliet accessories, Civil work, Sprinkler repairs, French drain repairs, Sidwalk repairs, Culverts, Boring, Bonds, Abatement, Existing equipment, Hand rails, Bollards, Concrete/ Asphalt repairs, etc. and or replacement of anything not specifically noted or shown on the proposal. Bid specifically EXCLUDES any and all existing conditions. (i.e. water damage to structure that is unforeseen)

# City Council Meeting

## Agenda Item

### Data Sheet

Meeting Date: May 19, 2025

#### Topic:

Workshop Discussion Only – Approve a Professional Services Agreement with AIG Technical Services, LLC for Project Number 2025-10015, M121W Channel Segment C, for a total contract amount not-to-exceed \$74,985, approve the expenditure of funds therefor, and authorize the City Manager to execute any and all documents related to the purchases. This expenditure is being proposed to be added to the Fiscal Year 2024-2025 Capital Improvement Budget to be paid from drainage impact fees.

#### Background:

Included in the Drainage Master Plan is a proposed project for drainage improvements along M121W Channel Segment C. The project limits begin north of Medical Complex within the existing M121 channel and continue north approximately 2,000 feet to the confluence with M121 and Hardin Ditch (Hardin Street right-of-way) and include reconstructing the channel reach at ultimate depth to provide outfall depth for upstream improvements.

Staff worked with AIG Technical Services to develop a professional services agreement to include a scope of work to complete the surveying, environmental assessment, design, bidding, construction management, material testing, and other required services, for a not-to-exceed amount of \$74,985.

The project has been identified from the Drainage Master Plan as a high priority project to alleviate flooding. Staff is proposing the project be added to the Fiscal Year 2024-2025 Capital Improvement Budget to be paid from drainage impact fees that are required to be used within ten years of collection per Chapter 395 of Texas Local Government Code.

M121W Channel Segment C		
Project Element	Total Contract	Remaining Contract Amount
Engineering – AIG	\$74,985	N/A
Estimated Construction*	\$416,055	N/A
<b>Project Budget \$491,040</b>	<b>Total Contracts &amp; Estimates \$74,985</b>	<b>Remaining Funding \$416,055</b>

\*Construction is an estimate only – OPCC will be completed as part of the design

**Origination:** Project Management

#### Recommendation:

Staff recommends approving a Professional Services Agreement with AIG Technical Services, LLC for the design of the M121W Channel Segment C for a total contract amount not-to-exceed \$74,985.

**Party(ies) responsible for placing this item on agenda:** Meagan Mageo, Project Manager

**FUNDING (IF APPLICABLE)**

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: \_\_\_\_\_ No: \_\_\_\_\_ If yes, specify Account Number: #400-154-6409

If no, funds will be transferred from account # \_\_\_\_\_ To account # \_\_\_\_\_

Signed	<u>Drew Huffman</u>	Approved by	_____
	Staff Member		City Manager
	Date		Date

**PROFESSIONAL SERVICES AGREEMENT  
FOR  
ENGINEERING SERVICES  
RELATED TO  
ENGINEERING & PLANNING PROJECT NO. 2025-10015  
CITY OF TOMBALL  
M121W CHANNEL, SEGMENT C**

**THE STATE OF TEXAS           §  
   §  
COUNTY OF HARRIS         §**

THIS AGREEMENT made on the \_\_\_\_\_ day of \_\_\_\_\_, 2025 entered into, and executed by and between the City of Tomball, Texas (the "City"), a municipal corporation of the State of Texas, and AIG Technical Services, LLC ("Engineer").

**WITNESSETH:**

WHEREAS, the City desires to prepare construction documents for completion of the M121-01-00 (western lateral) Channel, Segment C in the City of Tomball (the "Project"); and

WHEREAS, the services of a professional engineering firm are necessary to project planning, engineering, and preparation of construction documents, and

WHEREAS, the Engineer represents that it is fully capable and qualified to provide professional services to the City related to professional engineering;

NOW, THEREFORE, the City and Engineer, in consideration of the mutual covenants and agreements herein contained, do mutually agree as follows:

**SECTION I  
SCOPE OF AGREEMENT**

Engineer agrees to perform certain professional engineering services as defined in Attachment "A" attached hereto and made a part hereof for all purposes, hereinafter sometimes referred to as "Scope of Work," and for having rendered such services, the City agrees to pay Engineer compensation as stated in Section VII.

**SECTION II  
CHARACTER AND EXTENT OF SERVICES**

Engineer shall do all things necessary to render the engineering services and perform the Scope of Work in a professional and workmanlike manner. It is expressly understood and agreed that Engineer is an Independent Contractor in the performance of the services agreed to herein. It is further understood and agreed that Engineer shall

not have the authority to obligate or bind the City or make representations or commitments on behalf of the City or its officers or employees without the express prior approval of the City. The City shall be under no obligation to pay for services rendered not identified in Attachment "A" without prior written authorization from the City.

### **SECTION III OWNERSHIP OF WORK PRODUCT**

Engineer agrees that the City shall have the right to use all exhibits, maps, reports, analyses and other documents prepared or compiled by Engineer pursuant to this Agreement. The City shall be the absolute and unqualified owner of all studies, exhibits, maps, reports, analyses, determinations, recommendations, computer files, and other documents prepared or acquired pursuant to this Agreement with the same force and effect as if the City had prepared or acquired the same.

### **SECTION IV TIME FOR PERFORMANCE**

The time for performance of the Scope of Work is an estimated 270 calendar day duration beginning from the execution date of this Agreement. Upon written request of Engineer, the City may grant time extensions to the extent of any delays caused by the City or other agencies with which the work must be coordinated, and over which Engineer has no control.

### **SECTION V COMPLIANCE AND STANDARDS**

Engineer agrees to perform the work hereunder in accordance with generally accepted standards applicable thereto and shall use that degree of care and skill commensurate with the applicable profession to comply with all applicable state, federal, and local laws, ordinances, rules, and regulations relating to the work to be performed hereunder and Engineer's performance.

### **SECTION VI INDEMNIFICATION**

To the fullest extent permitted by Texas Local Government Code Section 271.904, Engineer shall and does hereby agree to indemnify, hold harmless and defend the City, its officers, agents, and employees against liability for damage caused by or resulting from an act of negligence, intentional tort, intellectual property infringement, or failure to pay a subcontractor or supplier committed by the Engineer, the Engineer's agent, consultant under contract, or another entity over which the Engineer exercises control.

## **SECTION VII ENGINEER'S COMPENSATION**

For and in consideration of the services rendered by Engineer pursuant to this Agreement, the City shall pay Engineer only for the actual work performed under the Scope of Work, on the basis set forth in Attachment "A," up to an amount not to exceed **\$74,985.00** including reimbursable expenses as identified in Attachment "A."

## **SECTION VIII TERMINATION**

The City may terminate this Agreement at any time by giving written notice to Engineer. Upon receipt of such notice, Engineer shall discontinue all services in connection with the performance of this Agreement and shall proceed to promptly cancel all existing orders and contracts insofar as such orders or contracts are chargeable to the Agreement. As soon as practicable after receipt of notice of termination, Engineer shall submit a sworn statement, showing in detail the services performed under this Agreement to the date of termination. The City shall then pay Engineer for such services performed under this Agreement as those services bear to the total services called for under this Agreement, less such payments on account of the charges as have been previously made. Copies of all completed or partially completed designs, maps, studies, documents and other work product prepared under this Agreement shall be delivered to the City when and if this Agreement is terminated.

## **SECTION IX ADDRESSES, NOTICES AND COMMUNICATIONS**

All notices and communications under this Agreement shall be mailed by certified mail, return receipt requested, to Engineer at the following address:

AIG Technical Services, LLC  
1500 S Dairy Ashford Suite 445  
Houston, Texas 77077  
Attn: Kyle A. Bertrand, P.E., Assoc. Vice President

All notices and communications under this Agreement shall be mailed by certified mail, return receipt requested, to the City at the following address:

City of Tomball  
501 W. Market Street  
Tomball, Texas 77375  
Attn: Drew Huffman, Director of Public Works

## **SECTION X LIMIT OF APPROPRIATION**

Prior to the execution of this Agreement, Engineer has been advised by the City and Engineer clearly understands and agrees, such understanding and agreement being of the absolute essence to this Agreement, that the City shall have available only those sums as expressly provided for under this Agreement to discharge any and all liabilities which may be incurred by the City and that the total compensation that Engineer may become entitled to hereunder and the total sum that the City shall become liable to pay to Engineer hereunder shall not under any conditions, circumstances, or interpretations hereof exceed the amounts as provided for in this Agreement.

## **SECTION XI SUCCESSORS AND ASSIGNS**

The City and Engineer bind themselves and their successors and assigns to the other party of this Agreement and to the successors and assigns of such other party, in respect to all covenants of this Agreement. Engineer shall not assign, sublet, or transfer its interest in this Agreement without the written consent of the City. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the City or any public body which may be a party hereto.

## **SECTION XII MODIFICATIONS**

This instrument, including Attachment "A," contains the entire Agreement between the parties relating to the rights herein granted and the obligations herein assumed. To the extent there is a conflict between the provisions of this Agreement and the provisions of Attachment "A," this Agreement shall control. Any oral or written representations or modifications concerning this instrument shall be of no force and effect excepting a subsequent modification in writing signed by both parties hereto.

## **SECTION XIII ADDITIONAL SERVICES OF ENGINEER**

If authorized in writing by the City, Engineer shall furnish, or obtain from others, Additional Services that may be required because of significant changes in the scope, extent or character of the portions of the Project designed or specified by the Engineer, as defined in Attachment "A." These Additional Services, plus reimbursable expenses, will be paid for by the Owner on the basis set forth in Attachment "A," up to the amount authorized in writing by the City.

## **SECTION XIV CONFLICTS OF INTEREST**

Pursuant to the requirements of the Chapter 176 of the Texas Local Government Code, Engineer shall fully complete and file with the City Secretary a Conflict of Interest Questionnaire.

## **SECTION XV PAYMENT TO ENGINEER FOR SERVICES AND REIMBURSABLE EXPENSES**

Invoices for Basic and Additional Services and reimbursable expenses will be prepared in accordance with Engineer's standard invoicing practices and will be submitted to the City by Engineer at least monthly. Invoices are due and payable thirty (30) days after receipt by the City.

## **SECTION XVI INSURANCE**

Engineer shall procure and maintain insurance in accordance with the terms and conditions set forth in Attachment "B," for protection from workers' compensation claims, claims for damages because of bodily injury, including personal injury, sickness or disease or death, claims or damages because of injury to or destruction of property including loss of use resulting therefrom, and claims of errors and omissions.

## **SECTION XVII MISCELLANEOUS PROVISIONS**

A. This Agreement is subject to the provisions of the Texas Prompt Payment Act, Chapter 2250 of the Texas Government Code. The approval or payment of any invoice shall not be considered to be evidence of performance by Engineer or of the receipt of or acceptance by the City of the work covered by such invoice.

B. Venue for any legal actions arising out of this Agreement shall lie exclusively in the federal and state courts of Harris County, Texas.

C. This Agreement is for sole benefit of the City and Engineer, and no provision of this Agreement shall be interpreted to grant or convey to any other person any benefits or rights.

D. Contractor further covenants and agrees that it does not and will not knowingly employ an undocumented worker. An "undocumented worker" shall mean an individual who, at the time of employment, is not (a) lawfully admitted for permanent residence to the United States, or (b) authorized by law to be employed in that manner in the United States.




E. Statutory Terms Applicable to State Political Subdivisions. As required by Chapter 2270, Government Code, ENGINEER hereby verifies that it does not boycott Israel and will not boycott Israel through the term of this Agreement. For purposes of this verification, "boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes.

IN WITNESS WHEREOF, the City of Tomball has lawfully caused this Agreement to be executed by the Assistant City Manager of said City and attested by the City Secretary and AIG Tech, acting by and through its duly authorized officer/representative, does now sign, execute, and deliver this instrument.

EXECUTED on this \_\_\_\_\_ day of \_\_\_\_\_, 2025

**ENGINEER:**  
**AIG Technical Services, LLC**

By:   
Name: Kyle A. Bertrand, PE  
Title: Associate Vice President

**CITY OF TOMBALL, TEXAS**

\_\_\_\_\_  
David Esquivel, PE, City Manager

ATTEST:

\_\_\_\_\_  
City Secretary

**ATTACHMENT “A”  
SCOPE OF SERVICES  
ON CALL PROFESSIONAL ENGINEERING SERVICES  
FOR  
CITY OF TOMBALL**

**PART A – SCOPE OF SERVICES**

**DESCRIPTION OF PROJECT**

The project proposed by the City of Tomball includes preparation of construction documents for M121-01-00 channel (western lateral), Segment C. The project limits begin north of Medical Complex within the existing M121-01-00 channel and continues north approximately 2,000 feet to the confluence with M121-01-01 and M121-01-02 (Hardin Street right-of-way). The proposed project is included in the Tomball CIP as project M121\_CIP 2 (included as Attachment C).

**Scope of Services**

The scope of services for this project will include professional engineering services necessary for the preparation of construction documents. Other supporting tasks included in this scope of services are:

- Review of most current reports, plans, and estimates provided by the City, and provide recommendations for any modifications.
- Assist City with scope and coordination of necessary Design and Boundary Survey for project engineering to include verification of current field conditions including Texas One-Call for utilities, establish/reestablish control, and identification of boundary points. A copy of the survey scope limits are included as Attachment D.
- AIG will prepare a storm water pollution prevention plan (SW3P) controls plan & standard details required during construction activities.
- AIG will prepare an estimate of probable construction costs for facilities design under this agreement.
- The scope for this Agreement does not include the following services:
  - Design and Boundary Survey services or Construction Staking
  - Geotechnical Study
  - Materials Testing – Construction
  - Environmental Assessment
  - Drainage Modeling and Design
  - Construction Management Services
  - Subsurface Utility Investigation
  - Coordination with Pipeline Companies (by City or under separate contract)
  - Utility or Pipeline Adjustments Design
  - Preparation of Project Manual
  - Bid Phase Services
  - Construction Phase Services

## **PART B – BASIS OF COMPENSATION AND REIMBURSABLE EXPENSES**

### **ON CALL PROFESSIONAL ENGINEERING SERVICES FOR CITY OF TOMBALL**

The following represents the estimated maximum compensation for the scope of services documented in Attachment A, Part A of this agreement. If services beyond those specifically identified are determined necessary during the project, Engineer shall not proceed with those services until such time written approval of the scope and any additional fees are approved by the City of Tomball.

The recommended budget for this scope of services is:

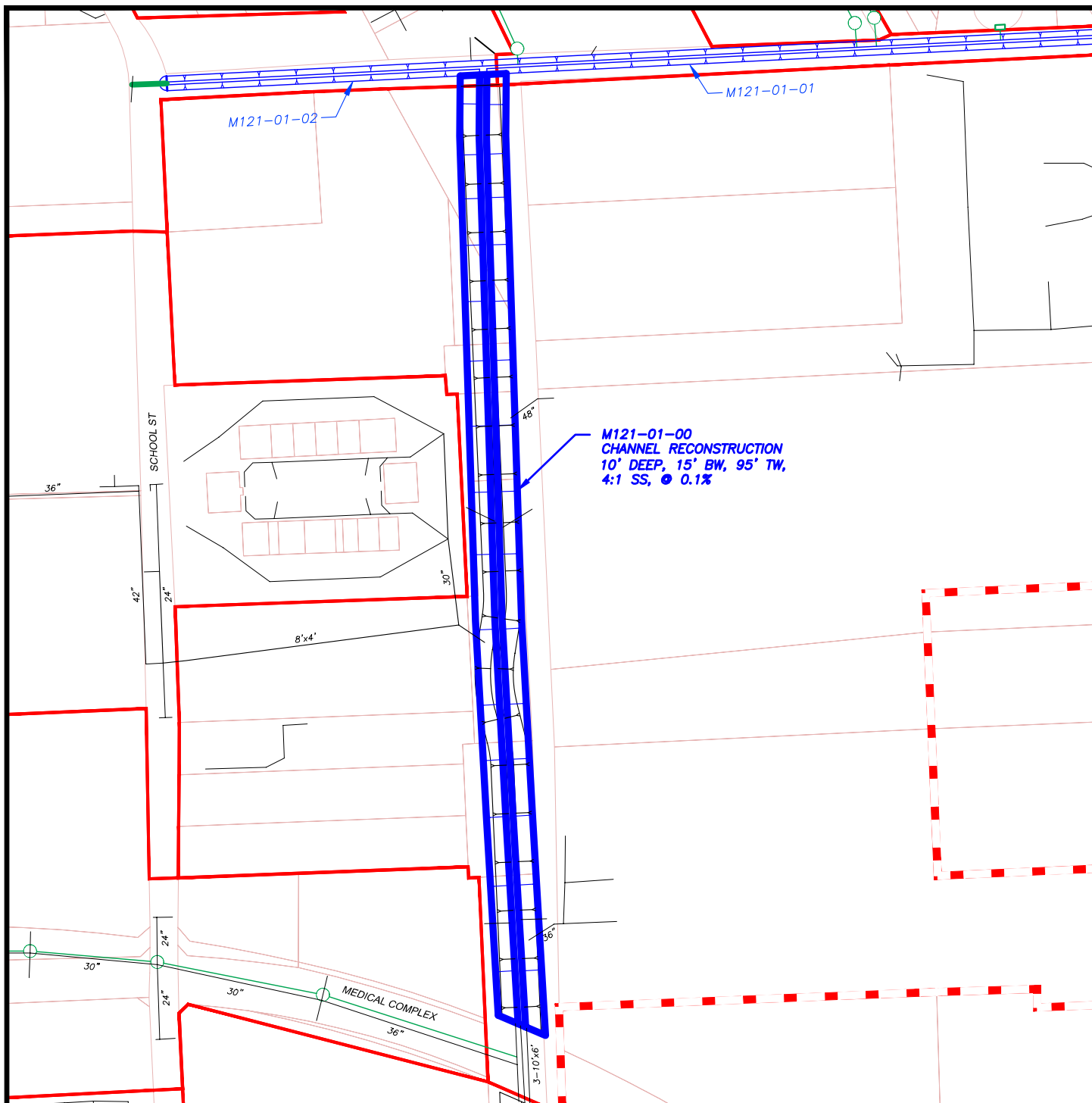
Plans, Specifications & Estimate	Lump Sum	\$74,585.00
<u>Reimbursable Expenses</u>	<u>Cost Plus</u>	<u>\$400.00</u>

**Total Recommended Not-to-Exceed Budget** **\$74,985.00**

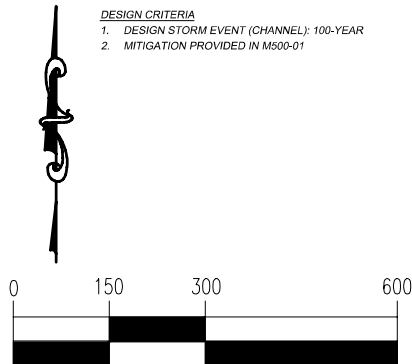
Notes: 1. Reimbursable Expenses shall be invoiced and paid based on cost of service provided plus 10% markup. These services include travel, deliveries, postage, graphical reproduction, etc.

**ATTACHMENT “B”**

**INSURANCE**

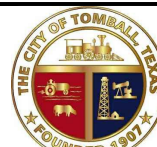


**DESIGN CRITERIA**  
 1. DESIGN STORM EVENT (CHANNEL): 100-YEAR  
 2. MITIGATION PROVIDED IN M500-01



( IN FEET )  
 1 INCH = 300 FT.

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
STORM SEWER		
STORM INLET		
STORM MANHOLE		
DITCH		
CHANNEL		
DETENTION POND		
BASIN BNDY		
SUBBASIN BNDY		
STM SWR SERVICE AREA		
DRAINAGE AREA BNDY		
LAND ACQUISITION		
CITY LIMITS		
ZONE AE/FLOODWAY		
ZONE AE (100-YR)		
ZONE X (500-YR)		
		DRAINAGE AREA ID
		DRAINAGE AREA IN ACRES



**CSE** Civil Systems Engineering, Inc.

**CITY OF TOMBALL  
DRAINAGE MASTER PLAN**

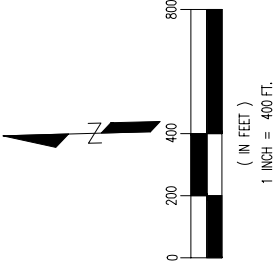
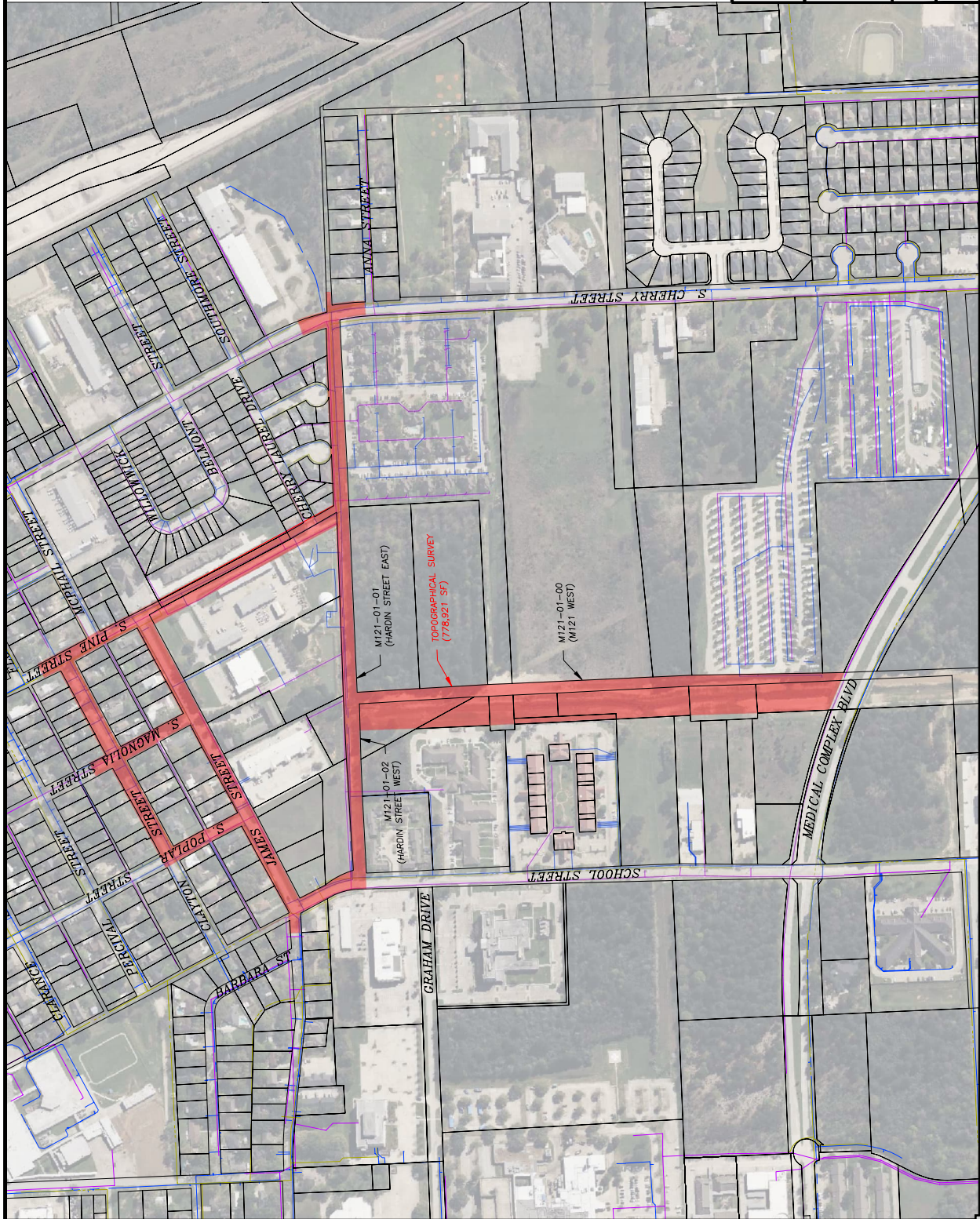
BASIN: M121 (M121-01-00)  
 SUBBASIN: HS\_E, HS\_W, C1, & C\_W

SCALE: 1" = 1" = 300'


March 2025

EXHIBIT NO. 2

M121



- LEGEND**
- EXISTING WATERLINE
  - EXISTING SANITARY SEWER
  - EXISTING GAS
  - TOPO SURVEY LIMITS
- SURVEY SCOPE NOTES**
- TOPOGRAPHICAL SURVEY TO INCLUDE CROSS SECTIONS EVERY 100 FEET. SECTION 1 INCLUDE RIGHT-OF-WAY PLUS 10 FEET.
  - TOPOGRAPHICAL SURVEY TO INCLUDE:
    - 2.1. DITCH HIGHBANK/TOE/FLOWLINE
    - 2.2. CULVERT SIZE & MATERIAL
    - 2.3. DRIVEWAYS
    - 2.4. VISIBLE UTILITY FEATURES
    - 2.5. TEXAS 811 ONECALL
  - SURVEY TO INCLUDE ROW VERIFICATION FOR DESIGN (NOT ACQUISITION LEVEL)

**Civil Systems Engineering, Inc.**

M121-01-01 & M121-01-02  
(HARDIN STREET DITCH)  
SURVEY SCOPE EXHIBIT

DRAWING SCALE: 1" = 400'	DATE: October 17, 2024
SHEET OF	COT E&P NO. 2024-1XXXX



# City Council Meeting

## Agenda Item

### Data Sheet

Meeting Date: May 19, 2025

#### Topic:

Workshop Discussion Only – Approve a contract with Industrial TX Corp. for the construction of the East Water Plant (Project No. 2023-10010), for a not-to-exceed amount of \$14,793,000 (RFP No. 2025-10), authorize the expenditure of funds therefor, and authorize the City Manager to execute any and all documents. The expenditure was included in the Fiscal Year 2024-2025 Budget as part of the 2025-2029 Capital Improvement Plan.

#### Background:

The Water Master Plan, completed in 2023, identified improvements to the City's water distribution system that would serve current and anticipated future water demands. The recommendations included construction of the East Water Plant.

Council approved a design contract with Freese & Nichols on November 7, 2022. Staff has worked with Freese & Nichols to design the water plant based on the recommendations and requirements in the Water Master Plan. To obtain the most favorable pricing and in accordance with the City's Procurement Policy, sealed proposals were solicited for the completion of the construction, with information available online through CivCast or in person at the Freese & Nichols, Inc. office. Submissions were due on Thursday, March 20, 2025 however due to the Easter holiday and requests from contractors, submissions were extended to April 28, 2025, to allow adequate time for interested parties to submit.

A total of seven (7) submissions were received, and after a thorough review of all proposals it was determined that Industrial TX Corp. was the highest scoring proposal and most qualified contractor to complete the project for a total amount not-to-exceed \$14,793,000. Below is a breakdown of the current funding allocated for the project.

Baker Drive Water Plant Budget Breakdown		
Element	Budgeted Amount	Contract Amount Remaining
Land Acquisition	\$6,050.00	\$0.00
Engineering	\$2,606,076.00	\$1,094,257.41
Construction	\$14,793,000	N/A
<b>Project Budget</b> <b>\$19,546,000</b>	<b>Total Contracts</b> <b>\$17,234,155</b>	<b>Remaining Budget</b> <b>\$2,311,845</b>

**Origination:** Project Management

#### Recommendation:

Staff recommends awarding a contract to Industrial TX Corp. for the construction of the East Water Plant for an amount not-to-exceed \$14,793,000.

**Party(ies) responsible for placing this item on agenda:** Meagan Mageo, Project Manager

**FUNDING (IF APPLICABLE)**

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: X No: \_\_\_\_\_ If yes, specify Account Number: #400-613-6409 (239)

If no, funds will be transferred from account: # \_\_\_\_\_ To Account: # \_\_\_\_\_

**Signed:** Meagan Mageo **Approved by:** \_\_\_\_\_  
                     Staff Member                      Date                      City Manager                      Date



May 12, 2025

Drew Huffman  
Director of Public Works  
City of Tomball  
501 James Street, Tomball, TX, 77375

Reference: City of Tomball – East Water Plant: Recommendation of Award Letter

Dear Mr. Huffman,

On Thursday, May 2, 2025, the City of Tomball received seven offers for the East Water Plant Project. The Competitive Sealed Proposals (CSP) were reviewed for scoring and verification by FNI and City Staff and final tabulated scores have been provided in the attached Proposal Evaluation Scoring Table. The City has reviewed the provided alternates and elected to proceed with Alternate D-02 Welded Steel GST and Alternate D-03 CMU Building with Brick Veneer. The total Contract Price including the allowances, supplemental items and City selected Alternates provided by each offeror are summarized in the table below. A copy of the tabulation is attached for your reference and use.

**Table 1: Summary of Total Bid Price**

No.	Offeror	Base Bid	Allowances and Supplemental	Elected Alternates: CMU Bldg. and Steel Tank	Total Contract Price
1	Industrial TX Corp.	\$14,390,000.00	+\$253,000.00	+\$150,000.00	\$14,793,000.00
2	IECONI	\$15,317,246.00	+\$354,039.00	+\$894,051.00	\$16,565,336.00
3	Persons Services Corp.	\$16,342,410.00	+\$738,000.00	+\$1,381,080.00	\$18,461,490.00
4	Servox LLC	\$16,541,895.98	+\$333,300.00	-\$193,232.60	\$16,681,963.38
5	W.W. Payton Corp.	\$16,647,000.00	+\$253,000.00	+\$700,000.00	\$17,600,000.00
6	Allco, Inc.	\$17,323,272.00	+\$337,625.00	+\$210,914.00	\$17,871,811.00
7	RAVA Construction, LLC	\$17,650,000.00	+\$385,100.00	+\$275,350.00	\$18,310,450.00

Upon review of the proposals and scoring for each bidder, the offer made by Industrial Tx Corp. is the lowest in cost and the best ranked in the scoring for the CSPs. Therefore, it is recommended to award the construction contract for the East Water Plant to Industrial TX Corp. in the amount of \$14,793,000.00.

Sincerely,



Carlos Quintero, P.E.

Attachment A: Proposal Evaluation Scoring and Formal Tabulation of Offers

**City of Tomball**  
**East Water Plant Project**  
**Proposal Evaluation Scoring**

Rating Category	Description	Weighting Value in Points
A	<b>Proposed Contract Price – (Lowest Price/Evaluated Proposal Price) x Points Available = Score</b>	<b>50</b>
	Industrial TX Corp.	50
	IECONI	47
	Persons Services Corp.	44
	Servox LLC	43
	W.W. Payton Corporation	43
	Allco	42
	RAVA Construction LLC	41
B	<b>Safety (EMR &amp; TRIR) – (Provide your current Workers Compensation Experience Rating (EMR and current Total Recordable Incident Rate (TRIR) and attached supporting data)</b>	<b>10</b>
	Industrial TX Corp.	9
	IECONI	6
	Persons Services Corp.	8
	Servox LLC	8
	W.W. Payton Corporation	0
	Allco	9
	RAVA Construction LLC	0
C	<b>Experience and Qualifications – (Sub Information Form, Project Approach, and supporting data)</b>	<b>30</b>
	Industrial TX Corp.	29
	IECONI	23
	Persons Services Corp.	29
	Servox LLC	26
	W.W. Payton Corporation	27
	Allco	28
	RAVA Construction LLC	20
D	<b>Conformance with Proposal Package Requirements – (Any exclusions to the contract documents or design requirements. Need to be listed on company's letterhead and submitted with the proposal)</b>	<b>10</b>
	Industrial TX Corp.	10
	IECONI	7
	Persons Services Corp.	10
	Servox LLC	10
	W.W. Payton Corporation	7
	Allco	10
	RAVA Construction LLC	5
<b>Total Maximum Score</b>		<b>100</b>
<b>Proposal Evaluation Results</b>		
	Industrial TX Corp.	98
	Persons Services Corp.	91
	Allco	89
	Servox LLC	87
	IECONI	83
	W.W. Payton Corporation	77
	RAVA Construction LLC	66

TMB22839 - East Water Plant (Competitive Sealed Proposal)  
ID: City - 2025-10 (FNI - TMB22839)

Item	Description	Unit	Quantity	Engineer's Estimate	Total	Industrial TX Corp.	Total	W.W. Payton Corporation	Total	Allco	Total	IECONI	Total	Servox LLC	Total	RAVA Construction LLC	Total	Persons Services Corp.	Total
Base Bid																			
I: Base Bid Items																			
1	MOBILIZATION	LS	1.00	\$737,000.00	\$737,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$650,000.00	\$650,000.00	\$736,851.00	\$736,851.00	\$322,500.00	\$322,500.00	\$875,000.00	\$875,000.00	\$500,000.00	\$500,000.00
2	SITE WORK AND FENCING	LS	1.00	\$758,554.00	\$758,554.00	\$430,000.00	\$430,000.00	\$350,000.00	\$350,000.00	\$482,235.00	\$482,235.00	\$487,944.00	\$487,944.00	\$757,231.99	\$757,231.99	\$980,000.00	\$980,000.00	\$750,000.00	\$750,000.00
3	CONCRETE PAVEMENT	SY	1,230.00	\$220.00	\$270,600.00	\$160.00	\$196,800.00	\$200.00	\$246,000.00	\$175.00	\$215,250.00	\$209.00	\$257,070.00	\$224.34	\$275,938.20	\$160.00	\$196,800.00	\$149.00	\$183,270.00
4	GROUNDWATER WELL , INCLUDING PUMP, PILOT HOLE, LOGS, CASING, BLANK LINER, SCREEN, VERTICAL TURBINE PUMP AND MOTOR, CONCRETE FOUNDATION, AND ALL APPURTENANCES COMPLETE IN PLACE	LS	1.00	\$3,199,350.00	\$3,199,350.00	\$2,500,000.00	\$2,500,000.00	\$3,200,000.00	\$3,200,000.00	\$2,699,430.00	\$2,699,430.00	\$3,033,591.00	\$3,033,591.00	\$2,984,028.00	\$2,984,028.00	\$3,000,000.00	\$3,000,000.00	\$3,200,000.00	\$3,200,000.00
5	GROUNDWATER WELL PIPING AND APPURTENANCES	LS	1.00	\$143,000.00	\$143,000.00	\$75,000.00	\$75,000.00	\$199,860.00	\$199,860.00	\$69,845.00	\$69,845.00	\$85,346.00	\$85,346.00	\$243,117.27	\$243,117.27	\$45,000.00	\$45,000.00	\$87,000.00	\$87,000.00
6	1.0 MG GLASS FUSED GROUND STORAGE TANK, INCLUDING FOUNDATION, PIPING, AND APPURTENANCES	LS	1.00	\$1,783,100.00	\$1,783,100.00	\$1,400,000.00	\$1,400,000.00	\$2,300,000.00	\$2,300,000.00	\$1,826,203.00	\$1,826,203.00	\$1,570,956.00	\$1,570,956.00	\$1,575,177.72	\$1,575,177.72	\$1,840,000.00	\$1,840,000.00	\$1,600,000.00	\$1,600,000.00
7	YARD PIPING, INCLUDING VALVES, APPURTENANCES, AND FITTINGS	LS	1.00	\$605,000.00	\$605,000.00	\$750,000.00	\$750,000.00	\$1,500,000.00	\$1,500,000.00	\$317,648.00	\$317,648.00	\$570,446.00	\$570,446.00	\$564,189.24	\$564,189.24	\$630,000.00	\$630,000.00	\$400,000.00	\$400,000.00
8	TRENCH SAFETY	LF	2,140.00	\$11.00	\$23,540.00	\$5.00	\$10,700.00	\$1.00	\$2,140.00	\$1.00	\$2,140.00	\$17.00	\$36,380.00	\$22.96	\$49,134.40	\$1.00	\$2,140.00	\$1.00	\$2,140.00
9	(3) HORIZONTAL SPLIT CASE PUMPS, INCLUDING PUMP STATION PIPING, APPURTENANCES, FITTINGS, AND VALVES	LS	1.00	\$715,000.00	\$715,000.00	\$575,000.00	\$575,000.00	\$700,000.00	\$700,000.00	\$733,867.00	\$733,867.00	\$704,719.00	\$704,719.00	\$713,535.12	\$713,535.12	\$635,000.00	\$635,000.00	\$600,000.00	\$600,000.00
10	PRE-ENGINEERED METAL BUILDING, INCLUDING HVAC, LOUVER, HEATER, AND SUPPLY FAN FOR CHLORINE ROOM	LS	1.00	\$847,440.00	\$847,440.00	\$525,000.00	\$525,000.00	\$900,000.00	\$900,000.00	\$620,415.00	\$620,415.00	\$469,468.00	\$469,468.00	\$655,636.53	\$655,636.53	\$645,000.00	\$645,000.00	\$750,000.00	\$750,000.00
11	ELECTRICAL AND CONTROL COMPONENTS	LS	1.00	\$2,332,000.00	\$2,332,000.00	\$2,887,500.00	\$2,887,500.00	\$1,049,000.00	\$1,049,000.00	\$4,284,360.00	\$4,284,360.00	\$1,982,534.00	\$1,982,534.00	\$3,870,000.00	\$3,870,000.00	\$3,700,000.00	\$3,700,000.00	\$4,450,000.00	\$4,450,000.00
12	NATURAL GAS POWERED GENERATOR, INCLUDING CONCRETE PAD	LS	1.00	\$1,364,846.00	\$1,364,846.00	\$1,140,000.00	\$1,140,000.00	\$1,300,000.00	\$1,300,000.00	\$1,117,227.00	\$1,117,227.00	\$1,367,204.00	\$1,367,204.00	\$1,289,712.33	\$1,289,712.33	\$1,300,000.00	\$1,300,000.00	\$1,100,000.00	\$1,100,000.00
13	PLUMBING SYSTEMS	LS	1.00	\$31,749.00	\$31,749.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$62,500.00	\$62,500.00	\$66,470.00	\$66,470.00	\$58,051.29	\$58,051.29	\$36,000.00	\$36,000.00	\$50,000.00	\$50,000.00
14	TREATMENT EQUIPMENT INCLUDING WELL AERATOR, FILTERS, CHLORINATION, AND CORROSION INHIBITOR	LS	1.00	\$3,215,300.00	\$3,215,300.00	\$2,450,000.00	\$2,450,000.00	\$3,500,000.00	\$3,500,000.00	\$3,423,637.00	\$3,423,637.00	\$3,357,091.00	\$3,357,091.00	\$2,663,911.92	\$2,663,911.92	\$3,000,000.00	\$3,000,000.00	\$2,110,000.00	\$2,110,000.00
15	WATERLINE FROM EAST WATER PLANT TO PERSIMMON STREET, INCLUDING CONNECTIONS AND APPURTENANCES, COMPLETE IN PLACE	LS	1.00	\$664,664.00	\$664,664.00	\$750,000.00	\$750,000.00	\$700,000.00	\$700,000.00	\$425,483.00	\$425,483.00	\$456,197.00	\$456,197.00	\$479,999.97	\$479,999.97	\$714,060.00	\$714,060.00	\$400,000.00	\$400,000.00
16	CHANNEL IMPROVEMENTS (AS SHOWN ON DRAWING C-10)	LS	1.00	\$152,857.00	\$152,857.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$393,032.00	\$393,032.00	\$134,979.00	\$134,979.00	\$39,732.00	\$39,732.00	\$51,000.00	\$51,000.00	\$160,000.00	\$160,000.00
Sub Totals					\$16,844,000.00		\$14,390,000.00		\$16,647,000.00		\$17,323,272.00		\$15,317,246.00		\$16,541,895.98		\$17,650,000.00		\$16,342,410.00
II: Supplemental Items																			
17	ADD FOR EACH COMPLETE WATER SAMPLING OPERATION IN PILOT HOLE USING TEMPORARY WELL METHOD, COMPLETE WITH 36-HOUR DEVELOPMENT AND PUMPING TIME, SAMPLES, AND ANALYSES, WHEN AUTHORIZED BY OWNER, COMPLETE IN PLACE	EA	1.00			\$40,000.00	\$40,000.00	\$40,000.00	\$40,000.00	\$66,600.00	\$66,600.00	\$72,134.00	\$72,134.00	\$66,000.00	\$66,000.00	\$81,000.00	\$81,000.00	\$60,000.00	\$60,000.00
18	WHEN REQUESTED BY ENGINEER, GRAVEL PACK 100 LINEAR FEET OF WELL PILOT HOLE, COMPLETE	EA	1.00	-	-	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,675.00	\$1,675.00	\$1,803.00	\$1,803.00	\$1,650.00	\$1,650.00	\$2,025.00	\$2,025.00	\$1,500.00	\$1,500.00
19	ADD FOR INSTALLATION OF 30-SACK PORTLAND CEMENT PLUG IN PILOT HOLE, COMPLETE IN PLACE	EA	1.00	-	-	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$8,350.00	\$8,350.00	\$9,016.00	\$9,016.00	\$8,250.00	\$8,250.00	\$10,125.00	\$10,125.00	\$7,500.00	\$7,500.00
20	ADD PER HOUR OF DEVELOPMENT TIME MORE THAN THE MINIMUM 36-HOUR BASE DEVELOPMENT FOR PILOT HOLE WATER SAMPLING OPERATION, WHEN AUTHORIZED BY OWNER, COMPLETE IN PLACE	HR	10.00	-	-	\$750.00	\$7,500.00	\$750.00	\$7,500.00	\$830.00	\$8,300.00	\$901.00	\$9,010.00	\$825.00	\$8,250.00	\$1,015.00	\$10,150.00	\$750.00	\$7,500.00
21	ADD (OR DEDUCT) PER HOUR OF PUMPING TEST TIME MORE (OR LESS) THAN 90-HOUR BASE TIME FOR PRODUCTION TEST, WHEN AUTHORIZED BY OWNER, COMPLETE	HR	10.00	-	-	\$650.00	\$6,500.00	\$650.00	\$6,500.00	\$720.00	\$7,200.00	\$781.00	\$7,810.00	\$715.00	\$7,150.00	\$880.00	\$8,800.00	\$650.00	\$6,500.00
22	FURNISH, INSTALL, AND REMOVE TEMPORARY PUMPING EQUIPMENT INCLUDING PUMP BOWL, PUMP COLUMN ASSEMBLY, WELLHEAD, AND ELECTRIC WELL MOTOR WITH A MINIMUM WELL PUMPING RATE OF 1,500 GPM AT A DEPTH OF 640 FEET, COMPLETE IN PLACE	LS	1.00	-	-	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$73,500.00	\$73,500.00	\$78,146.00	\$78,146.00	\$71,500.00	\$71,500.00	\$88,000.00	\$88,000.00	\$70,000.00	\$70,000.00
23	RENTAL OF TEMPORARY PUMPING EQUIPMENT OUTLINED IN ITEM B-06.	WK	10.00	-	-	\$3,500.00	\$35,000.00	\$3,500.00	\$35,000.00	\$6,200.00	\$62,000.00	\$6,612.00	\$66,120.00	\$6,050.00	\$60,500.00	\$7,500.00	\$75,000.00	\$46,000.00	\$460,000.00
Sub Totals							\$143,000.00		\$143,000.00		\$227,625.00		\$244,039.00		\$223,300.00		\$275,100.00		\$613,000.00
III: Subsidiary Items																			
24	PILOT HOLE AS REQUIRED, MORE OR LESS THAN THE BASE DEPTH OF 1,625 FEET, COMPLETE IN PLACE	FT	100.00	-	-	\$50.00	\$5,000.00	\$50.00	\$5,000.00	\$54.00	\$5,400.00	\$60.00	\$6,000.00	\$64.50	\$6,450.00	\$68.00	\$6,800.00	\$50.00	\$5,000.00
25	ADD OR DEDUCT FOR 24-INCH CASING, ABOVE OR BELOW THE BASE LENGTH OF 660 FEET, COMPLETE IN PLACE	LF	100.00	-	-	\$260.00	\$26,000.00	\$260.00	\$26,000.00	\$280.00	\$28,000.00	\$312.00	\$31,200.00	\$335.40	\$33,540.00	\$351.00	\$35,100.00	\$260.00	\$26,000.00
26	IN LIEU OF 24-INCH CASING, DEDUCT FOR 20-INCH CASING FOR THE BASE LENGTH OF 660 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$38,700.00)	(\$38,700.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)
27	ADD OR DEDUCT FOR 20-INCH CASING, ABOVE OR BELOW THE BASE LENGTH OF 660 FEET, COMPLETE IN PLACE	LF	100.00	-	-	\$240.00	\$24,000.00	\$240.00	\$24,000.00	\$260.00	\$26,000.00	\$288.00	\$28,800.00	\$309.60	\$30,960.00	\$324.00	\$32,400.00	\$240.00	\$24,000.00
28	ADD OR DEDUCT FOR 18-INCH BLANK LINER, ABOVE OR BELOW THE BASE LENGTH OF 260 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$200.00	\$10,000.00	\$200.00	\$10,000.00	\$220.00	\$11,000.00	\$240.00	\$12,000.00	\$258.00	\$12,900.00	\$270.00	\$13,500.00	\$200.00	\$10,000.00
29	IN LIEU OF 18-INCH BLANK LINER, DEDUCT FOR 14-INCH BLANK LINER FOR THE BASE LENGTH OF 260 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$25,800.00)	(\$25,800.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)
30	ADD OR DEDUCT FOR 14-INCH BLANK LINER, ABOVE OR BELOW THE BASE LENGTH OF 260 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$170.00	\$8,500.00	\$170.00	\$8,500.00	\$190.00	\$9,500.00	\$204.00	\$10,200.00	\$219.30	\$10,965.00	\$230.00	\$11,500.00	\$170.00	\$8,500.00
31	ADD OR DEDUCT FOR 18-INCH SCREEN, ABOVE OR BELOW THE BASE LENGTH OF 130 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$440.00	\$22,000.00	\$440.00	\$22,000.00	\$480.00	\$24,000.00	\$529.00	\$26,450.00	\$567.60	\$28,380.00	\$594.00	\$29,700.00	\$440.00	\$22,000.00
32	IN LIEU OF 18-INCH SCREEN, DEDUCT FOR 14-INCH SCREEN LINER FOR THE BASE LENGTH OF 130 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$19,350.00)	(\$19,350.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)
33	ADD OR DEDUCT FOR 14-INCH SCREEN, ABOVE OR BELOW THE BASE LENGTH OF 130 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$420.00	\$21,000.00	\$420.00	\$21,000.00	\$460.00	\$23,000.00	\$505.00	\$25,250.00	\$541.80	\$27,090.00	\$567.00	\$28,350.00	\$420.00	\$21,000.00
34	ADD PER 8-HOUR TOUR FOR EXTRA WELL DEVELOPMENT WHEN ORDERED BY OWNER, COMPLETE	8-HR TOUR	3.00	-	-	\$5,000.00	\$15,000.00	\$5,000.00	\$15,000.00	\$5,400.00	\$16,200.00	\$6,011.00	\$18,033.00	\$6,450.00	\$19,350.00	\$6,750.00	\$20,250.00	\$5,000.00	\$15,000.00
35	ADD OR DEDUCT PER 20-FOOT SECTION OF 12-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	20-FT SECTION	3.00	-	-	\$4,500.00	\$13,500.00	\$4,500.00	\$13,500.00	\$4,900.00	\$14,700.00	\$5,410.00	\$16,230.00	\$5,805.00	\$17,415.00	\$6,075.00	\$18,225.00	\$4,500.00	\$13,500.00
36	ADD OR DEDUCT PER 10-FOOT SECTION OF 12-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	10-FT SECTION	3.00	-	-	\$2,500.00	\$7,500.00	\$2,500.00	\$7,500.00	\$2,700.00	\$8,100.00	\$3,005.00	\$9,015.00	\$3,225.00	\$9,675.00	\$3,375.00	\$10,125.00	\$2,500.00	\$7,500.00
37	IN LIEU OF BASE PROPOSAL 12-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, DEDUCT FOR 10-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE FOR THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$12,900.00)	(\$12,900.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)

TMB22839 - East Water Plant (Competitive Sealed Proposal)  
ID: City - 2025-10 (FNI - TMB22839)

Item	Description	Unit	Quantity	Engineer's Estimate	Total	Industrial TX Corp.	Total	W.W. Payton Corporation	Total	Allco	Total	IECONI	Total	Servox LLC	Total	RAVA Construction LLC	Total	Persons Services Corp.	Total
38	ADD OR DEDUCT PER 20-FOOT SECTION OF 10-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	20-FT SECTION	3.00	-	-	\$4,200.00	\$12,600.00	\$4,200.00	\$12,600.00	\$4,600.00	\$13,800.00	\$5,049.00	\$15,147.00	\$5,418.00	\$16,254.00	\$5,670.00	\$17,010.00	\$4,200.00	\$12,600.00
39	ADD OR DEDUCT PER 10-FOOT SECTION OF 10-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	10-FT SECTION	3.00	-	-	\$2,400.00	\$7,200.00	\$2,400.00	\$7,200.00	\$2,600.00	\$7,800.00	\$2,885.00	\$8,655.00	\$3,096.00	\$9,288.00	\$3,240.00	\$9,720.00	\$2,400.00	\$7,200.00
40	ADD OR DEDUCT PER STAGE OF CAST IRON PUMP BOWL, ABOVE OR BELOW THE NUMBER OF REQUIRED TO MEET HEAD-CAPACITY CONDITIONS PER PROPOSAL ITEM A-15, COMPLETE IN PLACE	STAGE	1.00	-	-	\$4,900.00	\$4,900.00	\$4,900.00	\$4,900.00	\$5,300.00	\$5,300.00	\$5,891.00	\$5,891.00	\$6,321.00	\$6,321.00	\$6,615.00	\$6,615.00	\$4,900.00	\$4,900.00
41	ADD OR DEDUCT PER STAGE OF DUCTILE IRON PUMP BOWL, ABOVE OR BELOW THE NUMBER OF REQUIRED TO MEET HEAD-CAPACITY CONDITIONS PER PROPOSAL ITEM A-15, COMPLETE IN PLACE	STAGE	1.00	-	-	\$5,600.00	\$5,600.00	\$5,600.00	\$5,600.00	\$6,000.00	\$6,000.00	\$6,732.00	\$6,732.00	\$7,224.00	\$7,224.00	\$7,560.00	\$7,560.00	\$5,600.00	\$5,600.00
42	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 350 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS IN LIEU OF 400 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$5,160.00)	(\$5,160.00)	(\$4,000.00)	(\$4,000.00)	\$20,000.00	\$20,000.00
43	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 300 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS IN LIEU OF 400 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$9,030.00)	(\$9,030.00)	(\$7,000.00)	(\$7,000.00)	\$25,000.00	\$25,000.00
44	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 250 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS IN LIEU OF 400 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$12,900.00)	(\$12,900.00)	(\$10,000.00)	(\$10,000.00)	\$34,000.00	\$34,000.00
45	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 1,200 GPM WELL PUMP AND APPURTENANCES IN LIEU OF 1,500 GPM WELL PUMP AND APPURTENANCES (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,580.00)	(\$2,580.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)
46	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 1,000 GPM WELL PUMP AND APPURTENANCES IN LIEU OF 1,500 GPM WELL PUMP AND APPURTENANCES (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,290.00)	(\$1,290.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)
47	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF PRESSURE FILTERS TO ACCOMMODATE FLOW FROM 1,200 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$200,000.00)	(\$200,000.00)	(\$240,000.00)	(\$240,000.00)	(\$67,000.00)	(\$67,000.00)	(\$67,184.00)	(\$67,184.00)	(\$86,667.36)	(\$86,667.36)	(\$67,000.00)	(\$67,000.00)	(\$2,000.00)	(\$2,000.00)
48	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF PRESSURE FILTERS TO ACCOMMODATE FLOW FROM 1,000 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$200,000.00)	(\$200,000.00)	(\$240,000.00)	(\$240,000.00)	(\$86,000.00)	(\$86,000.00)	(\$86,380.00)	(\$86,380.00)	(\$111,430.20)	(\$111,430.20)	(\$86,000.00)	(\$86,000.00)	(\$1,000.00)	(\$1,000.00)
49	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF AERATOR TO ACCOMMODATE FLOW FROM 1,200 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$35,000.00)	(\$35,000.00)	(\$75,000.00)	(\$75,000.00)	(\$20,000.00)	(\$20,000.00)	(\$23,389.00)	(\$23,389.00)	(\$24,381.00)	(\$24,381.00)	(\$23,400.00)	(\$23,400.00)	(\$67,000.00)	(\$67,000.00)
50	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF AERATOR TO ACCOMMODATE FLOW FROM 1,000 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$35,000.00)	(\$35,000.00)	(\$75,000.00)	(\$75,000.00)	(\$30,000.00)	(\$30,000.00)	(\$29,236.00)	(\$29,236.00)	(\$38,442.00)	(\$38,442.00)	(\$29,000.00)	(\$29,000.00)	(\$86,000.00)	(\$86,000.00)
51	ADD FOR PLUGGING AND ABANDONMENT OF TEST HOLE PER SPECIFICATIONS AND TDLR AND TCEQ REGULATIONS, COMPLETE IN PLACE	LS	1.00	-	-	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,400.00	\$5,400.00	\$6,011.00	\$6,011.00	\$6,450.00	\$6,450.00	\$6,750.00	\$6,750.00	\$5,000.00	\$5,000.00
52	ADD FOR PLUGGING AND ABANDONMENT OF WELL PER SPECIFICATIONS AND TDLR AND TCEQ REGULATIONS, COMPLETE IN PLACE	LS	1.00	-	-	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$21,500.00	\$21,500.00	\$24,045.00	\$24,045.00	\$25,800.00	\$25,800.00	\$27,000.00	\$27,000.00	\$20,000.00	\$20,000.00
53	PILOT HOLE, TO THE BASE DEPTH OF 1,625 FEET WITH SPECIFIED LOGS, INCLUDING MOBILIZATION, DEMOBILIZATION, CLEAN-UP, AND ALL OTHER ASSOCIATED WORK AND COSTS, COMPLETE IN PLACE	LS	1.00	-	-	\$455,000.00	\$455,000.00	\$540,000.00	\$540,000.00	\$465,000.00	\$465,000.00	\$510,955.00	\$510,955.00	\$548,250.00	\$548,250.00	\$573,750.00	\$573,750.00	\$450,000.00	\$450,000.00
54	WHEN REQUESTED BY ENGINEER, ADD FOR SPECTRAL GAMMA RAY LOG (OR APPROVED EQUAL) OF TOTAL LENGTH OF TEST HOLE, COMPLETE IN PLACE	LS	1.00	-	-	\$2,000.00	\$2,000.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,404.00	\$2,404.00	\$2,580.00	\$2,580.00	\$2,700.00	\$2,700.00	\$2,000.00	\$2,000.00
Sub Totals							\$100,800.00		\$26,000.00		\$390,900.00		\$457,829.00		\$430,261.44		\$552,655.00		\$504,800.00
IV: Alternates																			
55	ADD OR DEDUCT: 1.0 MG PRESTRESSED TYPE III CONCRETE GROUND STORAGE TANK, INCLUDING RINGWALL FOUNDATION, PIPING, AND APPURTENANCES	LS	1.00	\$616,900.00	\$616,900.00	\$400,000.00	\$400,000.00	\$500,000.00	\$500,000.00	\$338,380.00	\$338,380.00	\$490,218.00	\$490,218.00	\$380,087.40	\$380,087.40	\$313,000.00	\$313,000.00	\$1,537,500.00	\$1,537,500.00
56	ADD OR DEDUCT: 1.0 MG WELDED STEEL GROUND STORAGE TANK	LS	1.00	\$416,900.00	\$416,900.00	\$0.00	\$0.00	\$600,000.00	\$600,000.00	(\$8,000.00)	(\$8,000.00)	\$730,800.00	\$730,800.00	(\$253,732.60)	(\$253,732.60)	\$55,350.00	\$55,350.00	\$1,167,800.00	\$1,167,800.00
57	ADD OR DEDUCT: CMU CONCRETE BUILDING WITH BRICK VENEER IN LIEU OF PRE-ENGINEERED METAL BUILDING (PROPOSAL ITEM A-10) INCLUDING HVAC, LOUVER, HEATER, AND SUPPLY FAN FOR CHLORINE ROOM	LS	1.00	\$362,560.00	\$362,560.00	\$150,000.00	\$150,000.00	\$100,000.00	\$100,000.00	\$218,914.00	\$218,914.00	\$163,251.00	\$163,251.00	\$60,500.00	\$60,500.00	\$220,000.00	\$220,000.00	\$213,280.00	\$213,280.00
58	ADD OR DEDUCT: CMU CONCRETE BUILDING WITH BRICK VENEER ONLY AROUND THE ELECTRICAL ROOM IN LIEU OF PRE-ENGINEERED METAL BUILDING (PROPOSAL ITEM A-10), INCLUDING HVAC, LOUVER, HEATER, AND SUPPLY FAN FOR CHLORINE ROOM	LS	1.00	\$332,560.00	\$332,560.00	\$150,000.00	\$150,000.00	\$80,000.00	\$80,000.00	\$211,096.00	\$211,096.00	\$76,747.00	\$76,747.00	\$16,500.00	\$16,500.00	\$154,000.00	\$154,000.00	\$54,000.00	\$54,000.00
59	ADD OR DEDUCT: REMOVE PRESSURE FILTERS FROM THE CONTRACT AND ALL ASSOCIATED ELECTRICAL, CONTROLS, FOUNDATION, SITE WORK, AND OTHER ITEMS NECESSARY TO OPERATE THE PRESSURE FILTERS	LS	1.00	(\$1,724,000.00)	(\$1,724,000.00)	(\$1,450,000.00)	(\$1,450,000.00)	(\$1,000,000.00)	(\$1,000,000.00)	(\$2,150,000.00)	(\$2,150,000.00)	(\$1,489,187.00)	(\$1,489,187.00)	(\$1,168,200.00)	(\$1,168,200.00)	(\$1,120,000.00)	(\$1,120,000.00)	(\$1,083,862.00)	(\$1,083,862.00)
60	ADD OR DEDUCT: REMOVE AERATOR FROM THE CONTRACT AND ALL ASSOCIATED ELECTRICAL, CONTROLS, FOUNDATION, SITE WORK, AND OTHER ITEMS NECESSARY TO OPERATE THE AERATOR	LS	1.00	(\$837,000.00)	(\$837,000.00)	(\$650,000.00)	(\$650,000.00)	(\$2,000,000.00)	(\$2,000,000.00)	(\$880,000.00)	(\$880,000.00)	(\$596,241.00)	(\$596,241.00)	(\$536,243.40)	(\$536,243.40)	(\$490,000.00)	(\$490,000.00)	(\$502,500.00)	(\$502,500.00)
61	ADD OR DEDUCT: REMOVE PRESSURE FILTERS AND AERATOR FROM THE CONTRACT AND ALL ASSOCIATED ELECTRICAL, CONTROLS, FOUNDATION, SITE WORK, AND OTHER ITEMS NECESSARY TO OPERATE THE PRESSURE FILTERS AND AERATOR	LS	1.00	(\$2,561,000.00)	(\$2,561,000.00)	(\$2,100,000.00)	(\$2,100,000.00)	(\$3,000,000.00)	(\$3,000,000.00)	(\$3,030,000.00)	(\$3,030,000.00)	(\$2,166,545.00)	(\$2,166,545.00)	(\$1,704,443.40)	(\$1,704,443.40)	(\$1,600,000.00)	(\$1,600,000.00)	(\$1,580,000.00)	(\$1,580,000.00)
Sub Tot:					(\$3,393,080.00)		(\$3,500,000.00)		(\$4,720,000.00)		(\$5,299,610.00)		(\$2,790,957.00)		(\$3,205,532.00)		(\$2,467,650.00)		(\$193,782.00)
V: Allow																			
62	UTILITY COORDINATION	LS	1.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$125,000.00	\$125,000.00
Sub Totals							\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$125,000.00
Total of All Items							\$11,243,800.00		\$12,206,000.00		\$12,752,187.00		\$13,338,157.00		\$14,099,925.42		\$16,120,105.00		\$17,391,428.00
Base Bid + Allowances + Supplemental							\$16,954,000.00		\$14,643,000.00		\$16,900,000.00		\$17,660,897.00		\$15,671,285.00		\$16,875,195.98		\$17,080,410.00

**City of Tomball**  
**East Water Plant Project**  
**Proposal Evaluation Scoring**

Rating Category	Description	Weighting Value in Points
A	<b>Proposed Contract Price – (Lowest Price/Evaluated Proposal Price) x Points Available = Score</b>	<b>50</b>
	Industrial TX Corp.	50
	IECONI	47
	Persons Services Corp.	44
	Servox LLC	43
	W.W. Payton Corporation	43
	Allco	42
	RAVA Construction LLC	41
B	<b>Safety (EMR &amp; TRIR) – (Provide your current Workers Compensation Experience Rating (EMR and current Total Recordable Incident Rate (TRIR) and attached supporting data)</b>	<b>10</b>
	Industrial TX Corp.	9
	IECONI	6
	Persons Services Corp.	8
	Servox LLC	8
	W.W. Payton Corporation	0
	Allco	9
	RAVA Construction LLC	0
C	<b>Experience and Qualifications – (Sub Information Form, Project Approach, and supporting data)</b>	<b>30</b>
	Industrial TX Corp.	29
	IECONI	23
	Persons Services Corp.	29
	Servox LLC	26
	W.W. Payton Corporation	27
	Allco	28
	RAVA Construction LLC	20
D	<b>Conformance with Proposal Package Requirements – (Any exclusions to the contract documents or design requirements. Need to be listed on company's letterhead and submitted with the proposal)</b>	<b>10</b>
	Industrial TX Corp.	10
	IECONI	7
	Persons Services Corp.	10
	Servox LLC	10
	W.W. Payton Corporation	7
	Allco	10
	RAVA Construction LLC	5
<b>Total Maximum Score</b>		<b>100</b>
<b>Proposal Evaluation Results</b>		
	Industrial TX Corp.	98
	Persons Services Corp.	91
	Allco	89
	Servox LLC	87
	IECONI	83
	W.W. Payton Corporation	77
	RAVA Construction LLC	66

TMB22839 - East Water Plant (Competitive Sealed Proposal)  
ID: City - 2025-10 (FNI - TMB22839)

Item	Description	Unit	Quantity	Engineer's Estimate	Total	Industrial TX Corp.	Total	W.W. Payton Corporation	Total	Allico	Total	IECONI	Total	Servox LLC	Total	RAVA Construction LLC	Total	Persons Services Corp.	Total
Base Bid																			
I: Base Bid Items																			
1	MOBILIZATION	LS	1.00	\$737,000.00	\$737,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$650,000.00	\$650,000.00	\$736,851.00	\$736,851.00	\$322,500.00	\$322,500.00	\$875,000.00	\$875,000.00	\$500,000.00	\$500,000.00
2	SITE WORK AND FENCING	LS	1.00	\$758,554.00	\$758,554.00	\$430,000.00	\$430,000.00	\$350,000.00	\$350,000.00	\$482,235.00	\$482,235.00	\$487,944.00	\$487,944.00	\$757,231.99	\$757,231.99	\$980,000.00	\$980,000.00	\$750,000.00	\$750,000.00
3	CONCRETE PAVEMENT	SY	1,230.00	\$220.00	\$270,600.00	\$160.00	\$196,800.00	\$200.00	\$246,000.00	\$175.00	\$215,250.00	\$209.00	\$257,070.00	\$224.34	\$275,938.20	\$160.00	\$196,800.00	\$149.00	\$183,270.00
4	GROUNDWATER WELL , INCLUDING PUMP, PILOT HOLE, LOGS, CASING, BLANK LINER, SCREEN, VERTICAL TURBINE PUMP AND MOTOR, CONCRETE FOUNDATION, AND ALL APPURTENANCES COMPLETE IN PLACE	LS	1.00	\$3,199,350.00	\$3,199,350.00	\$2,500,000.00	\$2,500,000.00	\$3,200,000.00	\$3,200,000.00	\$2,699,430.00	\$2,699,430.00	\$3,033,591.00	\$3,033,591.00	\$2,984,028.00	\$2,984,028.00	\$3,000,000.00	\$3,000,000.00	\$3,200,000.00	\$3,200,000.00
5	GROUNDWATER WELL PIPING AND APPURTENANCES	LS	1.00	\$143,000.00	\$143,000.00	\$75,000.00	\$75,000.00	\$199,860.00	\$199,860.00	\$69,845.00	\$69,845.00	\$85,346.00	\$85,346.00	\$243,117.27	\$243,117.27	\$45,000.00	\$45,000.00	\$87,000.00	\$87,000.00
6	1.0 MG GLASS FUSED GROUND STORAGE TANK, INCLUDING FOUNDATION, PIPING, AND APPURTENANCES	LS	1.00	\$1,783,100.00	\$1,783,100.00	\$1,400,000.00	\$1,400,000.00	\$2,300,000.00	\$2,300,000.00	\$1,826,203.00	\$1,826,203.00	\$1,570,956.00	\$1,570,956.00	\$1,575,177.72	\$1,575,177.72	\$1,840,000.00	\$1,840,000.00	\$1,600,000.00	\$1,600,000.00
7	YARD PIPING, INCLUDING VALVES, APPURTENANCES, AND FITTINGS	LS	1.00	\$605,000.00	\$605,000.00	\$750,000.00	\$750,000.00	\$1,500,000.00	\$1,500,000.00	\$317,648.00	\$317,648.00	\$570,446.00	\$570,446.00	\$564,189.24	\$564,189.24	\$630,000.00	\$630,000.00	\$400,000.00	\$400,000.00
8	TRENCH SAFETY	LF	2,140.00	\$11.00	\$23,540.00	\$5.00	\$10,700.00	\$1.00	\$2,140.00	\$1.00	\$2,140.00	\$17.00	\$36,380.00	\$22.96	\$49,134.40	\$1.00	\$2,140.00	\$1.00	\$2,140.00
9	(3) HORIZONTAL SPLIT CASE PUMPS, INCLUDING PUMP STATION PIPING, APPURTENANCES, FITTINGS, AND VALVES	LS	1.00	\$715,000.00	\$715,000.00	\$575,000.00	\$575,000.00	\$700,000.00	\$700,000.00	\$733,867.00	\$733,867.00	\$704,719.00	\$704,719.00	\$713,535.12	\$713,535.12	\$635,000.00	\$635,000.00	\$600,000.00	\$600,000.00
10	PRE-ENGINEERED METAL BUILDING, INCLUDING HVAC, LOUVER, HEATER, AND SUPPLY FAN FOR CHLORINE ROOM	LS	1.00	\$847,440.00	\$847,440.00	\$525,000.00	\$525,000.00	\$900,000.00	\$900,000.00	\$620,415.00	\$620,415.00	\$469,468.00	\$469,468.00	\$655,636.53	\$655,636.53	\$645,000.00	\$645,000.00	\$750,000.00	\$750,000.00
11	ELECTRICAL AND CONTROL COMPONENTS	LS	1.00	\$2,332,000.00	\$2,332,000.00	\$2,887,500.00	\$2,887,500.00	\$1,049,000.00	\$1,049,000.00	\$4,284,360.00	\$4,284,360.00	\$1,982,534.00	\$1,982,534.00	\$3,870,000.00	\$3,870,000.00	\$3,700,000.00	\$3,700,000.00	\$4,450,000.00	\$4,450,000.00
12	NATURAL GAS POWERED GENERATOR, INCLUDING CONCRETE PAD	LS	1.00	\$1,364,846.00	\$1,364,846.00	\$1,140,000.00	\$1,140,000.00	\$1,300,000.00	\$1,300,000.00	\$1,117,227.00	\$1,117,227.00	\$1,367,204.00	\$1,367,204.00	\$1,289,712.33	\$1,289,712.33	\$1,300,000.00	\$1,300,000.00	\$1,100,000.00	\$1,100,000.00
13	PLUMBING SYSTEMS	LS	1.00	\$31,749.00	\$31,749.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$62,500.00	\$62,500.00	\$66,470.00	\$66,470.00	\$58,051.29	\$58,051.29	\$36,000.00	\$36,000.00	\$50,000.00	\$50,000.00
14	TREATMENT EQUIPMENT INCLUDING WELL AERATOR, FILTERS, CHLORINATION, AND CORROSION INHIBITOR	LS	1.00	\$3,215,300.00	\$3,215,300.00	\$2,450,000.00	\$2,450,000.00	\$3,500,000.00	\$3,500,000.00	\$3,423,637.00	\$3,423,637.00	\$3,357,091.00	\$3,357,091.00	\$2,663,911.92	\$2,663,911.92	\$3,000,000.00	\$3,000,000.00	\$2,110,000.00	\$2,110,000.00
15	WATERLINE FROM EAST WATER PLANT TO PERSIMMON STREET, INCLUDING CONNECTIONS AND APPURTENANCES, COMPLETE IN PLACE	LS	1.00	\$664,664.00	\$664,664.00	\$750,000.00	\$750,000.00	\$700,000.00	\$700,000.00	\$425,483.00	\$425,483.00	\$456,197.00	\$456,197.00	\$479,999.97	\$479,999.97	\$714,060.00	\$714,060.00	\$400,000.00	\$400,000.00
16	CHANNEL IMPROVEMENTS (AS SHOWN ON DRAWING C-10)	LS	1.00	\$152,857.00	\$152,857.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$393,032.00	\$393,032.00	\$134,979.00	\$134,979.00	\$39,732.00	\$39,732.00	\$51,000.00	\$51,000.00	\$160,000.00	\$160,000.00
Sub Totals					\$16,844,000.00		\$14,390,000.00		\$16,647,000.00		\$17,323,272.00		\$15,317,246.00		\$16,541,895.98		\$17,650,000.00		\$16,342,410.00
II: Supplemental Items																			
17	ADD FOR EACH COMPLETE WATER SAMPLING OPERATION IN PILOT HOLE USING TEMPORARY WELL METHOD, COMPLETE WITH 36-HOUR DEVELOPMENT AND PUMPING TIME, SAMPLES, AND ANALYSES, WHEN AUTHORIZED BY OWNER, COMPLETE IN PLACE	EA	1.00	-	-	\$40,000.00	\$40,000.00	\$40,000.00	\$40,000.00	\$66,600.00	\$66,600.00	\$72,134.00	\$72,134.00	\$66,000.00	\$66,000.00	\$81,000.00	\$81,000.00	\$60,000.00	\$60,000.00
18	WHEN REQUESTED BY ENGINEER, GRAVEL PACK 100 LINEAR FEET OF WELL PILOT HOLE, COMPLETE	EA	1.00	-	-	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,675.00	\$1,675.00	\$1,803.00	\$1,803.00	\$1,650.00	\$1,650.00	\$2,025.00	\$2,025.00	\$1,500.00	\$1,500.00
19	ADD FOR INSTALLATION OF 30-SACK PORTLAND CEMENT PLUG IN PILOT HOLE, COMPLETE IN PLACE	EA	1.00	-	-	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$8,350.00	\$8,350.00	\$9,016.00	\$9,016.00	\$8,250.00	\$8,250.00	\$10,125.00	\$10,125.00	\$7,500.00	\$7,500.00
20	ADD PER HOUR OF DEVELOPMENT TIME MORE THAN THE MINIMUM 36-HOUR BASE DEVELOPMENT FOR PILOT HOLE WATER SAMPLING OPERATION, WHEN AUTHORIZED BY OWNER, COMPLETE IN PLACE	HR	10.00	-	-	\$750.00	\$7,500.00	\$750.00	\$7,500.00	\$830.00	\$8,300.00	\$901.00	\$9,010.00	\$825.00	\$8,250.00	\$1,015.00	\$10,150.00	\$750.00	\$7,500.00
21	ADD (OR DEDUCT) PER HOUR OF PUMPING TEST TIME MORE (OR LESS) THAN 90-HOUR BASE TIME FOR PRODUCTION TEST, WHEN AUTHORIZED BY OWNER, COMPLETE	HR	10.00	-	-	\$650.00	\$6,500.00	\$650.00	\$6,500.00	\$720.00	\$7,200.00	\$781.00	\$7,810.00	\$715.00	\$7,150.00	\$880.00	\$8,800.00	\$650.00	\$6,500.00
22	FURNISH, INSTALL, AND REMOVE TEMPORARY PUMPING EQUIPMENT INCLUDING PUMP BOWL, PUMP COLUMN ASSEMBLY, WELLHEAD, AND ELECTRIC WELL MOTOR WITH A MINIMUM WELL PUMPING RATE OF 1,500 GPM AT A DEPTH OF 640 FEET, COMPLETE IN PLACE	LS	1.00	-	-	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$73,500.00	\$73,500.00	\$78,146.00	\$78,146.00	\$71,500.00	\$71,500.00	\$88,000.00	\$88,000.00	\$70,000.00	\$70,000.00
23	RENTAL OF TEMPORARY PUMPING EQUIPMENT OUTLINED IN ITEM B-06.	WK	10.00	-	-	\$3,500.00	\$35,000.00	\$3,500.00	\$35,000.00	\$6,200.00	\$62,000.00	\$6,612.00	\$66,120.00	\$6,050.00	\$60,500.00	\$7,500.00	\$75,000.00	\$46,000.00	\$460,000.00
Sub Totals							\$143,000.00		\$143,000.00		\$227,625.00		\$244,039.00		\$223,300.00		\$275,100.00		\$613,000.00
III: Subsidiary Items																			
24	PILOT HOLE AS REQUIRED, MORE OR LESS THAN THE BASE DEPTH OF 1,625 FEET, COMPLETE IN PLACE	FT	100.00	-	-	\$50.00	\$5,000.00	\$50.00	\$5,000.00	\$54.00	\$5,400.00	\$60.00	\$6,000.00	\$64.50	\$6,450.00	\$68.00	\$6,800.00	\$50.00	\$5,000.00
25	ADD OR DEDUCT FOR 24-INCH CASING, ABOVE OR BELOW THE BASE LENGTH OF 660 FEET, COMPLETE IN PLACE	LF	100.00	-	-	\$260.00	\$26,000.00	\$260.00	\$26,000.00	\$280.00	\$28,000.00	\$312.00	\$31,200.00	\$335.40	\$33,540.00	\$351.00	\$35,100.00	\$260.00	\$26,000.00
26	IN LIEU OF 24-INCH CASING, DEDUCT FOR 20-INCH CASING FOR THE BASE LENGTH OF 660 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$38,700.00)	(\$38,700.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)	(\$30,000.00)
27	ADD OR DEDUCT FOR 20-INCH CASING, ABOVE OR BELOW THE BASE LENGTH OF 660 FEET, COMPLETE IN PLACE	LF	100.00	-	-	\$240.00	\$24,000.00	\$240.00	\$24,000.00	\$260.00	\$26,000.00	\$288.00	\$28,800.00	\$309.60	\$30,960.00	\$324.00	\$32,400.00	\$240.00	\$24,000.00
28	ADD OR DEDUCT FOR 18-INCH BLANK LINER, ABOVE OR BELOW THE BASE LENGTH OF 260 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$200.00	\$10,000.00	\$200.00	\$10,000.00	\$220.00	\$11,000.00	\$240.00	\$12,000.00	\$258.00	\$12,900.00	\$270.00	\$13,500.00	\$200.00	\$10,000.00
29	IN LIEU OF 18-INCH BLANK LINER, DEDUCT FOR 14-INCH BLANK LINER FOR THE BASE LENGTH OF 260 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$25,800.00)	(\$25,800.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)	(\$20,000.00)
30	ADD OR DEDUCT FOR 14-INCH BLANK LINER, ABOVE OR BELOW THE BASE LENGTH OF 260 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$170.00	\$8,500.00	\$170.00	\$8,500.00	\$190.00	\$9,500.00	\$204.00	\$10,200.00	\$219.30	\$10,965.00	\$230.00	\$11,500.00	\$170.00	\$8,500.00
31	ADD OR DEDUCT FOR 18-INCH SCREEN, ABOVE OR BELOW THE BASE LENGTH OF 130 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$440.00	\$22,000.00	\$440.00	\$22,000.00	\$480.00	\$24,000.00	\$529.00	\$26,450.00	\$567.60	\$28,380.00	\$594.00	\$29,700.00	\$440.00	\$22,000.00
32	IN LIEU OF 18-INCH SCREEN, DEDUCT FOR 14-INCH SCREEN LINER FOR THE BASE LENGTH OF 130 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$19,350.00)	(\$19,350.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)	(\$15,000.00)
33	ADD OR DEDUCT FOR 14-INCH SCREEN, ABOVE OR BELOW THE BASE LENGTH OF 130 FEET, COMPLETE IN PLACE	LF	50.00	-	-	\$420.00	\$21,000.00	\$420.00	\$21,000.00	\$460.00	\$23,000.00	\$505.00	\$25,250.00	\$541.80	\$27,090.00	\$567.00	\$28,350.00	\$420.00	\$21,000.00
34	ADD PER 8-HOUR TOUR FOR EXTRA WELL DEVELOPMENT WHEN ORDERED BY OWNER, COMPLETE	8-HR TOUR	3.00	-	-	\$5,000.00	\$15,000.00	\$5,000.00	\$15,000.00	\$5,400.00	\$16,200.00	\$6,011.00	\$18,033.00	\$6,450.00	\$19,350.00	\$6,750.00	\$20,250.00	\$5,000.00	\$15,000.00
35	ADD OR DEDUCT PER 20-FOOT SECTION OF 12-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	20-FT SECTION	3.00	-	-	\$4,500.00	\$13,500.00	\$4,500.00	\$13,500.00	\$4,900.00	\$14,700.00	\$5,410.00	\$16,230.00	\$5,805.00	\$17,415.00	\$6,075.00	\$18,225.00	\$4,500.00	\$13,500.00
36	ADD OR DEDUCT PER 10-FOOT SECTION OF 12-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	10-FT SECTION	3.00	-	-	\$2,500.00	\$7,500.00	\$2,500.00	\$7,500.00	\$2,700.00	\$8,100.00	\$3,005.00	\$9,015.00	\$3,225.00	\$9,675.00	\$3,375.00	\$10,125.00	\$2,500.00	\$7,500.00
37	IN LIEU OF BASE PROPOSAL 12-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, DEDUCT FOR 10-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE FOR THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	LS	1.00	-	-	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$12,900.00)	(\$12,900.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)



TMB22839 - East Water Plant (Competitive Sealed Proposal)																			
ID: City - 2025-10 (FNI - TMB22839)																			
Item	Description	Unit	Quantity	Engineer's Estimate	Total	Industrial TX Corp.	Total	W.W. Payton Corporation	Total	Allico	Total	IECONI	Total	Servox LLC	Total	RAVA Construction LLC	Total	Persons Services Corp.	Total
38	ADD OR DEDUCT PER 20-FOOT SECTION OF 10-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	20-FT SECTION	3.00	-	-	\$4,200.00	\$12,600.00	\$4,200.00	\$12,600.00	\$4,600.00	\$13,800.00	\$5,049.00	\$15,147.00	\$5,418.00	\$16,254.00	\$5,670.00	\$17,010.00	\$4,200.00	\$12,600.00
39	ADD OR DEDUCT PER 10-FOOT SECTION OF 10-INCH I.D. PUMP DISCHARGE COLUMN ASSEMBLY, INCLUDING LINE SHAFT, OIL TUBING, BEARINGS, AND AIR LINE MORE OR LESS THAN THE BASE LENGTH OF 640 FEET, COMPLETE IN PLACE	10-FT SECTION	3.00	-	-	\$2,400.00	\$7,200.00	\$2,400.00	\$7,200.00	\$2,600.00	\$7,800.00	\$2,885.00	\$8,655.00	\$3,096.00	\$9,288.00	\$3,240.00	\$9,720.00	\$2,400.00	\$7,200.00
40	ADD OR DEDUCT PER STAGE OF CAST IRON PUMP BOWL, ABOVE OR BELOW THE NUMBER OF REQUIRED TO MEET HEAD-CAPACITY CONDITIONS PER PROPOSAL ITEM A-15, COMPLETE IN PLACE	STAGE	1.00	-	-	\$4,900.00	\$4,900.00	\$4,900.00	\$4,900.00	\$5,300.00	\$5,300.00	\$5,891.00	\$5,891.00	\$6,321.00	\$6,321.00	\$6,615.00	\$6,615.00	\$4,900.00	\$4,900.00
41	ADD OR DEDUCT PER STAGE OF DUCTILE IRON PUMP BOWL, ABOVE OR BELOW THE NUMBER OF REQUIRED TO MEET HEAD-CAPACITY CONDITIONS PER PROPOSAL ITEM A-15, COMPLETE IN PLACE	STAGE	1.00	-	-	\$5,600.00	\$5,600.00	\$5,600.00	\$5,600.00	\$6,000.00	\$6,000.00	\$6,732.00	\$6,732.00	\$7,224.00	\$7,224.00	\$7,560.00	\$7,560.00	\$5,600.00	\$5,600.00
42	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 350 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS IN LIEU OF 400 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$4,000.00)	(\$5,160.00)	(\$5,160.00)	(\$4,000.00)	(\$4,000.00)	\$20,000.00	\$20,000.00
43	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 300 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS IN LIEU OF 400 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$7,000.00)	(\$9,030.00)	(\$9,030.00)	(\$7,000.00)	(\$7,000.00)	\$25,000.00	\$25,000.00
44	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 250 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS IN LIEU OF 400 HP MOTOR, MOTOR STARTER, AND ELECTRICAL CONTROLS (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$10,000.00)	(\$12,900.00)	(\$12,900.00)	(\$10,000.00)	(\$10,000.00)	\$34,000.00	\$34,000.00
45	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 1,200 GPM WELL PUMP AND APPURTENANCES IN LIEU OF 1,500 GPM WELL PUMP AND APPURTENANCES (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,580.00)	(\$2,580.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)
46	WHEN REQUESTED BY ENGINEER, DEDUCT FOR 1,000 GPM WELL PUMP AND APPURTENANCES IN LIEU OF 1,500 GPM WELL PUMP AND APPURTENANCES (BASE PROPOSAL), COMPLETE IN PLACE	LS	1.00	-	-	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,290.00)	(\$1,290.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)	(\$1,000.00)
47	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF PRESSURE FILTERS TO ACCOMMODATE FLOW FROM 1,200 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$200,000.00)	(\$200,000.00)	(\$240,000.00)	(\$240,000.00)	(\$67,000.00)	(\$67,000.00)	(\$67,184.00)	(\$67,184.00)	(\$86,667.36)	(\$86,667.36)	(\$67,000.00)	(\$67,000.00)	(\$2,000.00)	(\$2,000.00)
48	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF PRESSURE FILTERS TO ACCOMMODATE FLOW FROM 1,000 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$200,000.00)	(\$200,000.00)	(\$240,000.00)	(\$240,000.00)	(\$86,000.00)	(\$86,000.00)	(\$86,380.00)	(\$86,380.00)	(\$111,430.20)	(\$111,430.20)	(\$86,000.00)	(\$86,000.00)	(\$1,000.00)	(\$1,000.00)
49	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF AERATOR TO ACCOMMODATE FLOW FROM 1,200 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$35,000.00)	(\$35,000.00)	(\$75,000.00)	(\$75,000.00)	(\$20,000.00)	(\$20,000.00)	(\$23,389.00)	(\$23,389.00)	(\$24,381.00)	(\$24,381.00)	(\$23,400.00)	(\$23,400.00)	(\$67,000.00)	(\$67,000.00)
50	WHEN REQUESTED BY ENGINEER, DEDUCT FOR DOWNSIZING OF AERATOR TO ACCOMMODATE FLOW FROM 1,000 GPM WELL PUMP ALTERNATE, COMPLETE IN PLACE	LS	1.00	-	-	(\$35,000.00)	(\$35,000.00)	(\$75,000.00)	(\$75,000.00)	(\$30,000.00)	(\$30,000.00)	(\$29,236.00)	(\$29,236.00)	(\$38,442.00)	(\$38,442.00)	(\$29,000.00)	(\$29,000.00)	(\$86,000.00)	(\$86,000.00)
51	ADD FOR PLUGGING AND ABANDONMENT OF TEST HOLE PER SPECIFICATIONS AND TDLR AND TCEQ REGULATIONS, COMPLETE IN PLACE	LS	1.00	-	-	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,400.00	\$5,400.00	\$6,011.00	\$6,011.00	\$6,450.00	\$6,450.00	\$6,750.00	\$6,750.00	\$5,000.00	\$5,000.00
52	ADD FOR PLUGGING AND ABANDONMENT OF WELL PER SPECIFICATIONS AND TDLR AND TCEQ REGULATIONS, COMPLETE IN PLACE	LS	1.00	-	-	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$21,500.00	\$21,500.00	\$24,045.00	\$24,045.00	\$25,800.00	\$25,800.00	\$27,000.00	\$27,000.00	\$20,000.00	\$20,000.00
53	PILOT HOLE, TO THE BASE DEPTH OF 1,625 FEET WITH SPECIFIED LOGS, INCLUDING MOBILIZATION, DEMOBILIZATION, CLEAN-UP, AND ALL OTHER ASSOCIATED WORK AND COSTS, COMPLETE IN PLACE	LS	1.00	-	-	\$455,000.00	\$455,000.00	\$540,000.00	\$540,000.00	\$465,000.00	\$465,000.00	\$510,955.00	\$510,955.00	\$548,250.00	\$548,250.00	\$573,750.00	\$573,750.00	\$450,000.00	\$450,000.00
54	WHEN REQUESTED BY ENGINEER, ADD FOR SPECTRAL GAMMA RAY LOG (OR APPROVED EQUAL) OF TOTAL LENGTH OF TEST HOLE, COMPLETE IN PLACE	LS	1.00	-	-	\$2,000.00	\$2,000.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,404.00	\$2,404.00	\$2,580.00	\$2,580.00	\$2,700.00	\$2,700.00	\$2,000.00	\$2,000.00
Sub Totals							\$100,800.00		\$26,000.00		\$390,900.00		\$457,829.00		\$430,261.44		\$552,655.00		\$504,800.00
IV: Alternates																			
55	ADD OR DEDUCT: 1.0 MG PRESTRESSED TYPE III CONCRETE GROUND STORAGE TANK, INCLUDING RINGWALL FOUNDATION, PIPING, AND APPURTENANCES	LS	1.00	\$616,900.00	\$616,900.00	\$400,000.00	\$400,000.00	\$500,000.00	\$500,000.00	\$338,380.00	\$338,380.00	\$490,218.00	\$490,218.00	\$380,087.40	\$380,087.40	\$313,000.00	\$313,000.00	\$1,537,500.00	\$1,537,500.00
56	ADD OR DEDUCT: 1.0 MG WELDED STEEL GROUND STORAGE TANK	LS	1.00	\$416,900.00	\$416,900.00	\$0.00	\$0.00	\$600,000.00	\$600,000.00	(\$8,000.00)	(\$8,000.00)	\$730,800.00	\$730,800.00	(\$253,732.60)	(\$253,732.60)	\$55,350.00	\$55,350.00	\$1,167,800.00	\$1,167,800.00
57	ADD OR DEDUCT: CMU CONCRETE BUILDING WITH BRICK VENEER IN LIEU OF PRE-ENGINEERED METAL BUILDING (PROPOSAL ITEM A-10) INCLUDING HVAC, LOUVER, HEATER, AND SUPPLY FAN FOR CHLORINE ROOM	LS	1.00	\$362,560.00	\$362,560.00	\$150,000.00	\$150,000.00	\$100,000.00	\$100,000.00	\$218,914.00	\$218,914.00	\$163,251.00	\$163,251.00	\$60,500.00	\$60,500.00	\$220,000.00	\$220,000.00	\$213,280.00	\$213,280.00
58	ADD OR DEDUCT: CMU CONCRETE BUILDING WITH BRICK VENEER ONLY AROUND THE ELECTRICAL ROOM IN LIEU OF PRE-ENGINEERED METAL BUILDING (PROPOSAL ITEM A-10), INCLUDING HVAC, LOUVER, HEATER, AND SUPPLY FAN FOR CHLORINE ROOM	LS	1.00	\$332,560.00	\$332,560.00	\$150,000.00	\$150,000.00	\$80,000.00	\$80,000.00	\$211,096.00	\$211,096.00	\$76,747.00	\$76,747.00	\$16,500.00	\$16,500.00	\$154,000.00	\$154,000.00	\$54,000.00	\$54,000.00
59	ADD OR DEDUCT: REMOVE PRESSURE FILTERS FROM THE CONTRACT AND ALL ASSOCIATED ELECTRICAL, CONTROLS, FOUNDATION, SITE WORK, AND OTHER ITEMS NECESSARY TO OPERATE THE PRESSURE FILTERS	LS	1.00	(\$1,724,000.00)	(\$1,724,000.00)	(\$1,450,000.00)	(\$1,450,000.00)	(\$1,000,000.00)	(\$1,000,000.00)	(\$2,150,000.00)	(\$2,150,000.00)	(\$1,489,187.00)	(\$1,489,187.00)	(\$1,168,200.00)	(\$1,168,200.00)	(\$1,120,000.00)	(\$1,120,000.00)	(\$1,083,862.00)	(\$1,083,862.00)
60	ADD OR DEDUCT: REMOVE AERATOR FROM THE CONTRACT AND ALL ASSOCIATED ELECTRICAL, CONTROLS, FOUNDATION, SITE WORK, AND OTHER ITEMS NECESSARY TO OPERATE THE AERATOR	LS	1.00	(\$837,000.00)	(\$837,000.00)	(\$650,000.00)	(\$650,000.00)	(\$2,000,000.00)	(\$2,000,000.00)	(\$880,000.00)	(\$880,000.00)	(\$596,241.00)	(\$596,241.00)	(\$536,243.40)	(\$536,243.40)	(\$490,000.00)	(\$490,000.00)	(\$502,500.00)	(\$502,500.00)
61	ADD OR DEDUCT: REMOVE PRESSURE FILTERS AND AERATOR FROM THE CONTRACT AND ALL ASSOCIATED ELECTRICAL, CONTROLS, FOUNDATION, SITE WORK, AND OTHER ITEMS NECESSARY TO OPERATE THE PRESSURE FILTERS AND AERATOR	LS	1.00	(\$2,561,000.00)	(\$2,561,000.00)	(\$2,100,000.00)	(\$2,100,000.00)	(\$3,000,000.00)	(\$3,000,000.00)	(\$3,030,000.00)	(\$3,030,000.00)	(\$2,166,545.00)	(\$2,166,545.00)	(\$1,704,443.40)	(\$1,704,443.40)	(\$1,600,000.00)	(\$1,600,000.00)	(\$1,580,000.00)	(\$1,580,000.00)
Sub Totals					(\$3,393,080.00)		(\$3,500,000.00)		(\$4,720,000.00)		(\$5,299,610.00)		(\$2,790,957.00)		(\$3,205,532.00)		(\$2,467,650.00)		(\$193,782.00)
V: Allow																			
62	UTILITY COORDINATION	LS	1.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$125,000.00	\$125,000.00
Sub Totals					\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$110,000.00		\$125,000.00
Total of All Items							\$11,243,800.00		\$12,206,000.00		\$12,752,187.00		\$13,338,157.00		\$14,099,925.42		\$16,120,105.00		\$17,391,428.00
Base Bid + Allowances + Supplemental + Welded Steel/CMU Building Alternates					\$16,954,000.00		\$14,793,000.00		\$17,600,000.00		\$17,871,811.00		\$16,565,336.00		\$16,681,963.38		\$18,310,450.00		\$18,461,490.00

# City Council Meeting

## Agenda Item

### Data Sheet

Meeting Date: May 19, 2025

**Topic:**

Discuss land use compatibility.

**Background:**

Included for review are the City of Tomball land use charts (Section 50-82(b)) which illustrate land uses along with the zoning districts that the land uses are permitted within. A “P” in the column designates “permitted by right”, a “C” in the column designates “permitted with the approval of a Conditional Use Permit”, and a blank in the column designates that the land use is not permitted within a given zoning district.

The City of Tomball land use charts will be updated with the Unified Development Code (UDC) therefore the identification of uses and zoning district compatibilities ahead of the UDC discussions will assist city staff with drafting revisions to the code that will be considered with the adoption of the UDC.

Note that the creation of any non-conforming uses, for example changing a “P” to a “C” or “blank”, will require notification of the existing affected properties and a public hearing.

**Origination:** City Council

**Recommendation:**

**Party(ies) responsible for placing this item on agenda:** Craig T. Meyers, P.E.

**FUNDING (IF APPLICABLE)**

Are funds specifically designated in the current budget for the full amount required for this purpose?

Yes: \_\_\_\_\_ No: \_\_\_\_\_ If yes, specify Account Number: # \_\_\_\_\_

If no, funds will be transferred from account # \_\_\_\_\_ To account # \_\_\_\_\_

Signed	<u>Sasha Luna</u>	Approved by	<u></u>
	Staff Member		City Manager
	Date		Date



Types of Land Uses	Residential Zoning Districts											Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )		
	AG	SF- 20- E	SF- 9	SF- 7.5	SF- 6			D		MF		MHP	O		NR	GR			C			LI	
Agriculture																							
Bulk grain and/or feed storage	P																		C	C		1 space per 1,000 square feet	
Farm (ranch, garden, crops, livestock or orchard) ‡	P	P	P	P	P			P		P		P	P	P					P	P		P	None
Feed and grain store/farm supply store ‡	C															C			P	P		C	1 space per 500 square feet
Flour and other grain mills																				P			1 space per 1,000 square feet
Livestock, wholesale/auction	C																						None
Livestock sales/auction	C																						None
Stable, commercial	C																			C			1 space per 1,000 square feet
Stables (private, principal or accessory use) ‡	P				C																		None
Residential																							
Accessory building/structure (business or industry) ‡													P		P	P			P	P		P	None
Accessory building/structure (residential) ‡	P	P	P	P	P			P		P												P	None
Accessory dwelling	P	P	P	P	C			C		C												P	None
Garage/accessory dwelling ‡	P	P	P	P	C			C		C												P	None
Caretaker's, guard's residence ‡	P	C								P			P		P	P			P	P		P	1 space per caretaker/guard
Dwelling, four-family (quadraplex) (defined under Multiple-family dwelling) ‡										P												P	2 spaces per dwelling

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI			
Dwelling, HUD code-manufactured home ‡									P									C	2 spaces per dwelling
Dwelling, industrialized home ‡	P	P	P	P	P		P	P	P									C	2 spaces per dwelling
Dwelling, multiple-family ‡								P										P	2 spaces per dwelling
Dwelling, single-family attached ‡							P	P										P	2 spaces per dwelling
Dwelling—Single-family detached ‡	P	P	P	P	P		P	P										P	2 spaces per dwelling
Dwelling, two-family, duplex or duplex townhome ‡							P	P										P	2 spaces per dwelling
Dwelling, zero-lot line/patio home ‡							P	P										P	2 spaces per dwelling
Home occupation ‡	P	P	P	P	P		P	P				P			P	P		P	None
Residential use ‡	P	P	P	P	P		P	P	P	C	C	C			C			P	2 spaces per dwelling
Private street subdivision	P	P	P	P	P		P	P				C			C			P	None
<b>Office</b>																			
Clinic, emergency care												P			P	P		C	1 space per 150 square feet
Clinic, medical and/or dental										P	P	P			P	P		P	1 space per 300 square feet
Credit agency										P	P	P			P	P		P	1 space per 300 square feet
Bank, savings and loan, or credit union (no motor bank services)										P	P	P			P	P		P	1 space per 300 square feet
Bank, savings and loan, or credit union (with motor bank services)										C	P	P			P	P		P	1 space per 300 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP		O		NR	GR			C	LI		
Office professional and general business ‡											P		P	P			P	P	P	1 space per 300 square feet
Office, parole-probation														P			P	P	C	1 space per 300 square feet
Office showroom/warehouse ‡											C			C			P	P	P	1 space per 300 square feet
Security monitoring company (no outside storage)											P		P	P			P	P	P	1 space per 300 square feet
Telemarketing agency											C			C			C	P	C	1 space per 250 square feet
Telephone exchange/switching	C										P			P			P	P	C	1 space per 500
Temporary real estate field office	P	P	P	P	P		P	P	P		P		P	P			P	P	P	4 spaces
Model home (including sales office)	P	P	P	P	P		P	P	P		P		P	P			C	C	P	2 spaces per model
<b>Personal and Business</b>																				
Ambulance service														C			P	P	C	1 space per 500 square feet
Automobile driving school (including defensive driving)											C		P	P			P	P	P	1 space per classroom seat
Barber/beauty shop (no related school/college)											C		P	P			P	P	P	1 space per 200 square feet
Bed and breakfast inn ‡	P	C	C	C	C		C	C			C		C	P			P		P	2 spaces plus one per guest room
Check cashing service														C			C			1 space per 100 square feet
Dance hall/dancing facility ‡														C			C		P	1 space per 100 square feet

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Dance/drama/music schools (performing arts, martial arts)	C	C	C	C	C		C	C	C	C	P	P			P	P		P		1 space per 100 square feet
Fortunetelling and similar activities ‡																C				1 space per 300 square feet
Funeral home ‡												C			P	P		C		See <a href="#">section 50-112</a>
Greenhouse (non-retail/hobby)	P	P	P	P	P		P	P	P									P		None
Health club (indoor)										C	P	P			P	P		P		One space per 300 square feet
Health club (outdoor)											C	P			P	P		P		One space per 300 square feet
Hotel ‡												P			P			C		See <a href="#">section 50-112</a>
Laundromat/washateria/self-service ‡												P			P	P		P		1 space per 200 square feet
Laundry/dry cleaning (retail only, drop off/pick up) ‡										C	P	P			P	P		P		1 space per 200 square feet
Loan services (payday/auto title)												C			C					1 space per 100 square feet
Mailing service (private)												P			P	P		P		1 space per 200 square feet
Motel ‡															C			C		See <a href="#">section 50-112</a>
Pharmacy (retail only)										C	P	P			P	P		P		1 space per 200 square feet
Reception venue	C	C								C	C	P			P	P		P		1 space 4 seats
Recreational vehicle park									C											

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Rehabilitation care facility (halfway house) ‡	C	C	C	C	C		C	C	C	C	C	P			P	P		C		Greater of 1 per three beds or 1.5 spaces per dwelling
Rehabilitation care institution (business) ‡	C	C	C	C	C		C	C		C	C	P			P	P		P		Greater of 1 per three beds or 1.5 spaces per dwelling
Seamstress, dressmaker or tailor (retail only)										C	P	P			P	P		P		1 per 200 square feet
Sexually oriented business																C				
Tattoo or body piercing studio ‡															C					1 space per 200 square feet
Wedding chapel												P			P	P		P		1 per four seats
<b>Retail</b>																				
Antique shop (no outside sales or storage) ‡											P	P			P	P		P		1 space per 500 square feet
Antique shop (with outside storage)												C			P	P		P		1 space per 500 square feet
Apparel shop											P	P			P	P		P		1 space per 200 square feet
Art gallery/museum/dealer ‡										C	P	P			P	P		P		1 space per 500 square feet
Artist or photography studio										C	P	P			P	P		P		1 space per 500 square feet
Bakery, retail (eating establishment, no drive-through) ‡										C	P	P			P	P		P		1 space per 200 square feet
Bakery, retail (with drive-through)											C	P			P	P		P		1 space per 200 square feet
Bakery (wholesale) ‡															P	P		P		1 space per 500 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Bird and pet shops (retail only)											C	P			P	P		P		1 space per 200 square feet
Book/stationery shop (retail only) ‡											P	P			P	P		P		1 space per 200 square feet
Brewpub										C	C	P			P	P		P		1 space per 1,000 square feet for the brewing of beer, ale.
Building material sales/lumber yard ‡												C			P	P		P		1 space per 1,000 square feet
Carpenter shop												C			P	P		P		1 space per 500 square feet
Catering service												P			P	P		P		1 space per 500 square feet
Coffee roasting															C	P				1 space per 1,000 square feet
Consignment shop											C	C			P	P		P		1 space per 300 square feet
Convenience store (with or without gasoline sales) ‡										C		P			P	P		C		See <a href="#">section 50-112</a>
Copy shop ‡										C	P	P			P	P		P		1 space per 200 square feet
Drinking establishment										C	C	P			P	P		P		
Drug store (retail only)												P			P	P		P		1 space per 200 square feet
Eating establishment (with drive-in service) ‡											C	C			P	P		P		Greater: 1 per 100 square feet; 1 per 3 seats based on max

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP		O		NR	GR			C	LI		
Eating establishment (with no drive-through service) ‡											C		P	P			P	P	P	
Eating establishment (with drive-through service) ‡													C	P			P	P	P	
Electronic goods (retail only)													P	P			P	P	P	1 space per 200 square feet
Florist shop (retail only) ‡											C		P	P			P	P	P	1 space per 200 square feet
Food or grocery store													P	P			P	P	P	1 space per 500 square feet
Furniture and appliance store (retail only) ‡													C	P			P	P	P	1 space per 500 square feet
Furniture store (new and used) ‡													C	P			P	P	P	1 space per 200 square feet
General retail stores (no outside storage)													P	P			P	P	P	1 space per 200 square feet
Gift or card shop (retail only)											C		P	P			P	P	P	1 space per 200 square feet
Hardware store													P	P			P	P	P	1 space per 400 square feet
Hobby and crafts store (retail only)											C		P	P			P	P	P	1 space per 200 square feet
Home improvement center														P			P	P	P	1 space per 400 square feet plus one per 1,000 square feet of warehouse area
Jewelry store													P	P			P	P	P	1 space per 200 square feet
Market, open air																	C	C	C	1 space per 200 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Meat and fish market (retail only)												P			P	P		P		1 space per 200 square feet
Mobile food court												C			C	C		C		Whichever is greater: 1 per 100 square feet of seating area or 2 per mobile food vendor
Motion picture studios, commercial films												C			P	P		P		1 space per 300 square feet
Motion picture theater (indoors)											C	P			P	P		P		See <a href="#">section 50-112</a>
Nursery ‡												P			P	P		P		1 space per 1,000 square feet of sales area
Garden shop ‡												P			P	P		P		1 space per 200 square feet
Painting and refinishing shop												C			P	P		P		1 space per 500 square feet
Piano and musical instruments (retail only)											P	P			P	P		P		1 space per 200 square feet
Shoe repair shop (retail only)											P	P			P	P		P		1 space per 200 square feet
Sign shop (small scale, such as a storefront, includes sign and banner making for retail sale only; no outside storage)												P			P	P		P		1 space per 300 square feet
Stone monuments and gravestones, engraving and retail sales only												C			P	P		C		1 space per 500 square feet
Trophy engraving												P			P	P		P		1 space per 300 square feet



Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Upholstery shop (nonauto)												P			P	P		P		1 space per 200 square feet
Used merchandise												P			P	P		P		1 space per 200 square feet
Video rental/sales											P	P			P	P		P		1 space per 200 square feet
<b>Transportation and Auto Services</b>																				
Airport or landing field ‡	C															C				1 space per 500 square feet
All-terrain vehicle (go-carts) dealer/sales (w/outdoor sales, storage, and display)												P			P	P				1 space per 300 square feet
All-terrain vehicle (go-carts) dealer/sales (w/no outdoor sales, storage, and display)												P			P	P		C		1 space per 300 square feet
Auto accessories (retail sales only)											C	P			P	P		P		1 space per 200 square feet
Auto body repair/painting												C			P	P		P		1 space per 200 square feet
Auto dealer (new, auto servicing and used auto sales as accessory uses only, w/outdoor sales, storage, and display) ‡												P			P	P				See <a href="#">section 50-112</a>
Auto dealer (new, auto servicing and used auto sales as accessory uses only, w/no outdoor sales, storage, and display)												P			P	P		C		See <a href="#">section 50-112</a>
Auto dealer, primarily used auto sales w/outdoor sales, storage, and display‡												C			P	P				See <a href="#">section 50-112</a>

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )			
	AG	SF-20-E	SF-9	SF-7.5	SF-6			D		MF		MHP	O		NR	GR					C	LI	
Auto dealer, primarily used auto sales w/no outdoor sales, storage and display																C			P	P		C	See <a href="#">section 50-112</a>
Auto glass repair/tinting																P			P	P		P	1 space per 200 square feet
Auto interior shop/upholstery																C			P	P		P	1 space per 200 square feet
Auto muffler shop																C			P	P		P	1 space per 200 square feet
Auto paint shop																C			P	P		P	One per 200 square feet
Auto parts sale (new or rebuilt; no outside storage, no outside display, no repair)																P			P	P		P	1 space per 200 square feet
Auto parts sale (new or rebuilt; with outside storage or display)																C			P	P			1 space per 200 square feet
Auto rental																P			P	P		C	1 space per 200 square feet
Auto repair (major) ‡																C			P	P		C	1 space per 200 square feet
Auto repair (major) ‡																C			P	P		C	1 space per 200 square feet
Auto repair (minor) ‡																P			P	P		P	1 space per 200 square feet
Auto storage or auto auction ‡																			C	P			1 space per 1,000 square feet
Auto tire sales (indoor)																P			P	P		P	1 space per 200 square feet
Auto wrecker service																			P	P		C	1 space per 200 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Automobile assembly																P		C		1 space per 1,000 square feet
Automobile parts manufacturing															C	P		C		1 space per 1,000 square feet
Automobile wash (full service/detail shop) ‡												P			P	P		P		3 space per washing capacity of module
Automobile wash (self-service) ‡												C			P	P		P		3 space per washing capacity of module
Bike sales and/or repair												P			C	P		P		1 space per 500 square feet
Bus or truck storage															P	P				1 space per 1,000 square feet
Gasoline station												P			P	P				See <a href="#">section 50-112</a>
Motor freight transportation, storage, and terminal															P	P		C		See <a href="#">section 50-112</a>
Motorcycle sales/dealer w/outdoor sales, storage, and display ‡												P			P	P				See <a href="#">section 50-112</a>
Motorcycle sales/dealer w/no outdoor sales, storage, and display												P			P	P		C		See <a href="#">section 50-112</a>
Parking lot or garage for passenger cars and trucks of less than one-ton capacity ‡	C		C	C	C		C	C		C	C	P			P	P		C		None

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Personal watercraft sales (new/repair) w/outdoor sales, storage, and display												P			P	P				See <a href="#">section 50-112</a>
Personal watercraft sales (new/repair) w/no outdoor sales, storage, and display												P			P	P		C		See <a href="#">section 50-112</a>
Railroad team tracks, unloading docks, and spurs															P	P		C		None
Railroad yards, round house or shop															C	P		C		1 space per 1,000 square feet
Taxi/limousine service												C			P	P		C		1 space per 1.5 automobiles in service
Tire sales (indoors, no outside storage) ‡															P	P		P		1 space per 1,000 square feet
Tire sales (outdoors, with outside storage) ‡															C	P				1 space per 1,000 square feet
Transfer station (refuse/pick-up) ‡	C														C	C				1 space per 500 square feet
Transit terminal ‡															P	P		C		See <a href="#">section 50-112</a>
Truck and bus leasing ‡															P	P				1 space per 1,000 square feet
Truck sales and services (heavy trucks) ‡															P	P				1 space per 1,000 square feet
Truck stop ‡															C	P		C		1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Truck terminal ‡															P	P				See <a href="#">section 50-112</a>
<b>Amusement and Recreation</b>																				
Amusement, commercial (indoor) ‡											C	C		C	P	P		C		1 space per 100 square feet
Amusement, commercial (outdoor) ‡												C			P	P		C		10 spaces plus 1 per 500 square feet over 5,000 square feet of building and recreation area
Amusement, commercial, temporary, (e.g., carnival, haunted house) (Note: Allowed by building official for up to 10 days) ‡									C						C	P		C		Determined by P and Z
Amusement devices/arcade (4 or more devices, indoors only) ‡											C	C			P	P		C		1 space per game table plus one per amusement device
Billiard/pool facility (4 or more tables)											C	C			P	P		C		1 space per 200 square feet
Bingo facility											C	C			P	P		P		1 space per 200 square feet
Bowling alley (air conditioned and soundproofed)											C	P			P	P		C		4 spaces per lane
Dinner theatre												P			P	P		P		1 space per three seats or bench seating space
Drive-in theater															C	C		C		1 space per speaker

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Golf driving range	C											C			P	P		C		See <a href="#">section 50-112</a>
Golf course (private) ‡	C	C	C	C	C		C	C		C	C	C			C	C		C		6 spaces per hole
Golf course (publicly owned) ‡	P	P	P	P	P		P	P	P	P	P	P			P	P		P		6 spaces per hole
Playfield or stadium (private)	C											C			P	P		P		1 space per three seats
Recreational vehicle park/campground ‡	C														C	P		C		1.5 per RV pad
Skating rink												P			P	P		P		1 space per 200 square feet, plus 1 per 3 seats based on max capacity
Swimming pool, private (use by membership) ‡	P	P	P	P	P		P	P	P	P	P	P			P	P		P		1 space for each 100 square feet of gross water surface and deck area
Swimming pool, commercial ‡										C	C	P			P	P		P		1 space per 100 square feet of gross water surface and deck area
Tennis court (private/not lighted)	P	P	P	P	P		P	P	P	P	P	P			P	P		P		2 spaces per court
Tennis court (private/lighted)	C	C	C	C	C		C	C	C		C	C			C	C		C		2 spaces per court
<b>Institutional/Governmental</b>																				
Adult day care (business)	See Household care facility																			
Antenna (commercial)	See <a href="#">section 50-116</a>																			

Types of Land Uses	Residential Zoning Districts											Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6			D		MF		MHP	O		NR	GR			C	LI		
Antenna (noncommercial)	See <a href="#">section 50-116</a>																					
Armed services recruiting center													P		P	P			P	P	P	1 space per 300 square feet
Assisted living facility (continuing care retirement community) ‡										P			C		C	P			P		P	1.5 spaces per dwelling unit plus any additional space for accessory uses
Auction house																C			P	P	C	1 space per 100 square feet
Boarding home facility ‡										C						C			C	C	C	1 space per three beds or 1.5 per dwelling
Broadcast station (with tower)	See <a href="#">section 50-116</a>																					
Broadcast towers (commercial)	See <a href="#">section 50-116</a>																					
Cellular communications tower/PCS	See <a href="#">section 50-116</a>																					
Cemetery and/or mausoleum ‡	C	C	C	C	C			C		C		C	C		C	C			C	C	C	1 space per 5,000 square feet of land
Child day care center (business) ‡										C			C		P	P			P		P	1 space per three children
Church/temple/place of worship ‡	P	P	P	P	P			P		P		P	P		P	P			P	P	P	1 space per four seats in sanctuary
Civic center (municipal) ‡	P	P	P	P	P			P		P		P	P		P	P			P	P	P	10 spaces plus 1,300 square feet above 2,000
Civic club													P		P	P			P	P	P	See <a href="#">section 50-112</a>

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Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Community center (public)	C	C	C	C	C		C	C	C	P	P	P			P	P		P		See <a href="#">section 50-112</a>
Community home ‡	P	P	P	P	P		P	P	P									P		1 space per 300 square feet
Community or social buildings ‡	C	C	C	C	C		C	C	C	P	P	P			P	P		P		1 space per 300 square feet
Country club (private) ‡	C	C	C	C	C		C	C		C	C	C			C	C		P		10 spaces plus one per 300 square feet above 2,000
Earth satellite dish (private, less than 3 feet in diameter)	See <a href="#">section 50-116</a>																			
Electric power plant															C	P		C		1 space per 1,000 square feet
Electric storage system																C				2 spaces per facility
Electrical substation ‡	C	C	C	C	C		C	C	C	C	C	C			C	C		C		1 space per 1,000 square feet
Exhibition hall ‡												C			P	P		C		1 space per 100 square feet
Fair ground or rodeo ‡	C														C	C		C		1 space per 1,000 square feet of land area
Family home (child care in place of residence) ‡	P	P	P	P	P		P	P	P	P	P	P			P			P		1 space per 10 children plus 1 space per teacher
Fraternal organization ‡										C	C	P			P	P		P		10 spaces plus 1 per 300 square feet above 2,000



Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Fraternity or sorority house ‡							C	C		C	C	C			C				C	2 spaces per bedroom
Governmental building or use (county, state or federal) ‡	C	C	C	C	C		C	C	C	P	P	P			P	P			P	1 space per 300 square feet
Heliport ‡										C		C			C	C			C	3 spaces
Helistop										C	C	C			C	C			C	3 spaces
Hospital ‡										C		P			P	P			P	1 space per bed
Household care facility ‡	P	P	P	P	P		P	P	P										P	1 space per 6 clients
Household care institution												P			P	P				1 space per 6 clients
Institution for alcoholic, narcotic, or psychiatric patients ‡												C			C	P			C	1 space per 200 square feet
Institution of religious, educational or philanthropic nature	C	C	C	C	C		C	C	C	C	C	P			P	P			P	1 space per 200 square feet
Municipal facility or use ‡	P	P	P	P	P		P	P	P	P	P	P			P	P			P	1 space per 300 square feet
Museum	C	C	C	C	C		C	C	C	C	C	P			P	P			P	See <a href="#">section 50-112</a>
Park and/or playground (private) ‡	P	P	P	P	P		P	P	P	P	P	P			P	P			P	
Park and/or playground (public, municipal) ‡	P	P	P	P	P		P	P	P	P	P	P			P	P			P	
Penal or correctional institutions	C														P	P			C	1 space per 500 square feet
Post office (governmental)	P	P	P	P	P		P	P	P	P	P	P			P	P			P	10 plus 1 per 200 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6			D	MF	MHP	O		NR	GR			C	LI		
Non-city public assembly (auditorium, gymnasium, stadiums, meeting halls, etc.)														P			P	P	C	1 space per 4 seals
Radio television and communications towers	See <a href="#">section 50-116</a>																			
Rectory/parsonage	P	P	P	P	P			P	P	P	P		P	P			P	P	P	5 spaces, plus 1 per bedroom
Retirement housing for the elderly ‡	See Assisted living facility																			
Riding academy	P	C	C	C	C			C	C	C	C		C	C			C	P	C	1 space per five stalls
Sanitary landfill (private)																		C		1 space per ten acres
School, business (e.g., barber/beauty/cosmetology)													C	P			P	P	P	1 space per three students, based on design
School, college or university	C	C	C	C	C			C	C	C	C		C	P			P	P	P	10 per classroom plus 2 per office
School, commercial trade (vocational) ‡											C		C	P			P	P	P	1 space per student
School, public or denominational ‡	P	P	P	P	P			P	P	P	P		P	P			P	P	P	See <a href="#">section 50-112</a>
School, other than public or denominational ‡											C		C	P			P	P	P	
Sign, all types (defined within the referenced section) ‡	See <a href="#">ch. 34</a> of this Code																			
Skilled nursing facility ‡									P		C		C	C			P		C	See <a href="#">section 50-112</a>
Studio for radio and/or television (no towers) ‡											P		P	P			P	P	P	1 space per 200 square feet

Types of Land Uses	Residential Zoning Districts											Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )		
	AG	SF- 20- E	SF- 9	SF- 7.5	SF- 6			D		MF		MHP	O		NR	GR			C			LI	
Commercial and Wholesale Trade																							
Animal kennel (outdoor pens)	P																		C	P		1 space per 500 square feet	
Appliance repair																P			P	P		P	1 space per 500 square feet
Book binding																			P	P		P	1 space per 500 square feet
Carpet and rug cleaning plant																C			P	P		C	1 space per 1,000 square feet
Cattle, swine, or poultry feedlot (CAFO)	C																			C			1 space per 5,000 square feet of land
Cleaning plant (commercial laundry) ‡																C			P	P		C	1 space per 1,000 square feet
Communication equipment sales/service (installation and/or repair, no outdoor sales or storage or towers/antennae)															P	P			P	P		P	1 space per 1,000 square feet
Construction contractor with storage yard	C																		P	P			1 space per 1,000 square feet of land
Contractor's office/sales, no outside storage including vehicles																P			P	P		P	1 space per 1,000 square feet of land
Contractor's temporary on-site construction office (only with permit from building official.)	P	P	P	P	P			P		P		P	P	P	P	P			P	P		P	None
Distribution center ‡																			P	P		C	1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Electric repair, (domestic equipment and autos)										C	C	P			P	P		P		1 space per 1,000 square feet
Electronic assembly															P	P		C		1 space per 1,000 square feet
Electro-plating/electro-typing															P	P		C		1 space per 1,000 square feet
Exterminator service/company (no outdoor sales or storage)		C <sup>1</sup>										P			P	P		P		1 space per 300 square feet
Fix-it shops, small engine, saw filing, mower sharpening												C			P	P		C		1 space per 500 square feet
Fur/hide tanning and finishing																C				1 space per 1,000 square feet
Heating and air conditioning sales/services												C			P	P		C		1 space per 1,000 square feet
Iron works (ornamental)															C	P				1 space per 1,000 square feet
Lawnmower repair and/or sales												C			P	P		C		1 space per 500 square feet
Loading or storage tracks															P	P		C		None
Locksmith											P	P			P	P		C		1 space per 500 square feet
Machine shop															P	P		C		1 space per 1,000 square feet
Maintenance and repair service for buildings/janitorial												C			P	P		C		1 space per 500 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Manufactured home display or sales (new or used) ‡															C	P		C		1 space per 1,000 square feet
Mattress, making and renovating															P	P		C		1 space per 1,000 square feet
Milk depot, wholesale															P	P				1 space per 1,000 square feet
Mini-warehouse/self storage ‡												C			P	P		C		See <a href="#">section 50-112</a>
Mortuary												C			P	P		C		See <a href="#">section 50-112</a>
Moving and storage company															P	P		C		1 space per 1,000 square feet
News printing															P	P		C		1 space per 1,000 square feet
Outdoor sales as a primary use ‡												C			P	P				1 space per 5,000 square feet of land area
Pawn shop ‡															P	P		C		1 space per 200 square feet
Pet and animal grooming shop (no outside kennels) ‡											C	P			P	P		P		1 space per 200 square feet
Plumbing shop												C			P	P		C		1 space per 200 square feet
Printing equipment, supplies and repairs												C			P	P		C		1 space per 500 square feet
Propane sales filling (retail)												C			P	P		C		1 space per 200 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Publishing and printing company												C			P	P		P		1 space per 500 square feet
Quick lube/oil change/minor inspection												P			P	P		P		1 space per 200 square feet
Salvage storage yard ‡																C				5 per acre
Scientific and industrial research laboratories (hazardous) ‡															C	P				1 space per 300 square feet
Scientific and industrial research laboratories (nonhazardous) ‡										P		C			P	P		P		1 space per 300 square feet
Scrap metal storage yard																C				5 space per acre
Security systems installation company											C	C			P	P		C		1 space per 300 square feet
Sheet metal shop															P	P				1 space per 1,000 square feet
Storage of cement, sands and gravel	C														C	P				1 space per 5,000 square feet of storage area
Storage of used lumber and building materials															C	P				1 space per 5,000 square feet of storage area
Taxicab storage and repair															P	P				1 space per 500 square feet
Taxidermist	C											C			P	P				1 space per 500 square feet
Tool and machinery rental (indoor storage only) ‡												P			P	P		P		1 space per 200 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Tool and machinery rental (with outdoor storage) ‡												C			P	P		C		1 space per 200 square feet
Vacuum cleaner sales and repair ‡												P			P	P		P		1 space per 200 square feet
Veterinarian clinic (indoor kennels) ‡	P										C	P			P	P		P		1 space per 500 square feet
Veterinarian clinic (outdoor kennels or pens) ‡	C														C	P				1 space per 500 square feet
Warehouse (defined under storage or wholesale warehouse) ‡												C			P	P		C		1 space per 1,000 square feet
Welding shop												C			P	P		C		1 space per 1,000 square feet
Wholesale trade, nondurable goods												C			P	P		C		1 space per 1,000 square feet
Woodworking shops												C			P	P		C		1 space per 1,000 square feet
Wrecking materials yard ‡																C				1 space per 1,000 square feet
<b>Light and Heavy Manufacturing/Industrial</b>																				
Acid manufacture																C				1 space per 1,000 square feet
Adhesives and sealants manufacture															C	C				1 space per 1,000 square feet
Aircraft parts manufacture																P				1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Airplane repair and manufacturing																P				1 space per 1,000 square feet
Animal processing and slaughter															C	C				1 space per 1,000 square feet
Any manufacture or industrial process not listed and not prohibited by law															C	C				1 space per 1,000 square feet
Artificial flower manufacture													C			P	P			1 space per 1,000 square feet
Asphalt paving and roofing material manufacture																C				1 space per 1,000 square feet
Awning manufacture, cloth, metal and wood															P	P				1 space per 1,000 square feet
Bag manufacturing															P	P				1 space per 1,000 square feet
Battery manufacture																C				1 space per 1,000 square feet
Bleaching/chorine powder manufacture																C				2 space per 1,000 square feet
Boiler manufacture and repair																P				1 space per 1,000 square feet
Bottling works															P	P				1 space per 1,000 square feet



Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Broom manufacture															P	P				1 space per 1,000 square feet
Candy and other confectionary products manufacture												C			P	P				1 space per 1,000 square feet
Canning and preserving factory															C	P				1 space per 1,000 square feet
Canvas and related products manufacture															P	P				1 space per 1,000 square feet
Casein manufacture																C				1 space per 1,000 square feet
Celluloid and similar cellulose manufacture																C				1 space per 1,000 square feet
Cement manufacture																C				1 space per 1,000 square feet
Ceramic products manufacture												C			P	P				1 space per 500 square feet
Chalk manufacture																C				1 space per 1,000 square feet
Chemicals (agricultural) manufacture																C				1 space per 1,000 square feet
Chemicals (industrial) manufacture																C				1 space per 1,000 square feet
Clothing manufacture															P	P				1 space per 500 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Coffin manufacture															C	P				1 space per 1,000 square feet
Cold storage plants/locker															P	P				1 space per 1,000 square feet
Concrete or asphalt mixing/batching plant (permanent) ‡																C				1 space per 5,000 square feet of land
Concrete or asphalt mixing/batching plant (temporary) ‡												C			P	P				1 space per 5,000 square feet of land
Crematory																C				1 space per 1,000 square feet
Culvert manufacture																C				1 space per 1,000 square feet
Cutlery, handtools and general hardware manufacture															C	P				1 space per 1,000 square feet
Dairy products manufacture															C	P				1 space per 1,000 square feet
Distillation of liquors, spirits, etc. (brewery)																C				1 space per 1,000 square feet
Dye manufacture																C				1 space per 1,000 square feet
Dyeing plant															C	P				1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )		
	AG	SF-20-E	SF-9	SF-7.5	SF-6			D		MF		MHP	O		NR	GR					C	LI
Electric lamp manufacture																			C	P		One per 1,000 square feet
Elevator manufacture																				P		1 space per 1,000 square feet
Enameling and painting																			C	P		1 space per 1,000 square feet
Engraving plant																			P	P		1 space per 1,000 square feet
Envelope manufacture																			P	P		1 space per 1,000 square feet
Farm/garden machinery and equipment manufacture																			C	P		1 space per 1,000 square feet
Fats and oils (animal) manufacture																						1 space per 1,000 square feet
Feed manufacture																			C	C		1 space per 500 square feet
Felt manufacture																				C		1 space per 1,000 square feet
Food processing ‡																			C	P		1 space per 1,000 square feet
Footwear manufacture																			C	P		1 space per 500 square feet
Foundry, all types																						1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )			
	AG	SF-20-E	SF-9	SF-7.5	SF-6			D		MF		MHP	O		NR	GR					C	LI	
Furnace manufacture																				C			1 space per 1,000 square feet
Fixtures manufacture																				C	P		1 space per 1,000 square feet
Furniture manufacture																				C	P		1 space per 1,000 square feet
Gases (industrial) manufacture																				C			1 space per 1,000 square feet
Glucose manufacture																				C			1 space per 1,000 square feet
Hair products factory (other than human)																				C			1 space per 1,000 square feet
Heavy machinery sales and storage ‡																				C	P		1 space per 1,000 square feet
Ice cream/ice manufacture																				P	P		1 space 1,000 square feet
Kerosene manufacture or storage																				C			1 space per 1,000 square feet
Laboratory equipment manufacturing ‡																				C			1 space per 1,000 square feet
Leather products manufacture																				C	C		1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR				C	LI			
Lumber mill/yard																	C			1 space per 1,000 square feet
Machinery manufacture																C	P			1 space per 1,000 square feet
Marble working and finishing																C	P			1 space per 1,000 square feet
Meat packing plant																	C			1 space per 1,000 square feet
Metal cans and shipping containers manufacture																C	P			1 space per 1,000 square feet
Metal products, stamping and manufacture																C	P			1 space per 1,000 square feet
Mirror resilvering																C	P			1 space per 200 square feet
Office equipment manufacture																P	P			1 space per 1,000 square feet
Oil compounding and barreling																	C			1 space per 1,000 square feet
Oilcloth manufacture																	C			1 space per 1,000 square feet
Orthopedic, prosthetic, surgical appliances and supplies manufacture																P	P			1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR				C	LI			
Paint manufacture and/or mixing																C	P			1 space per 1,000 square feet
Paper and paper pulp manufacture																	C			1 space per 1,000 square feet
Paper products and paper box manufacture																P	P			1 space per 1,000 square feet
Pecan processing																C	P			1 space per 1,000 square feet
Petroleum and petroleum products refining																				1 space per 1,000 square feet
Petroleum distribution/storage ‡																C	P			1 space per 1,000 square feet
Plastic products, molding, casting and shaping																P	P			1 space per 1,000 square feet
Poultry hatchery																				1 space per 1,000 square feet
Poultry slaughtering and processing																				1 space per 1,000 square feet
Printing ink manufacture																	P			1 space per 1,000 square feet
Reduction of fats, ores, metals, garbage, offal, etc.; rendering plant																				1 space per 1,000 square feet

Types of Land Uses	Residential Zoning Districts									Nonresidential Zoning Districts									OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR				C	LI			
Rock quarries, sand, gravel and earth excavations or extractions	C																C			1 space per acre
Rug and carpet manufacture																	C	P		1 space per 1,000 square feet
Sand, gravel, or stone storage (including sales) ‡	C																C	P		1 space per 1.5 employees, plus five per acre
Shellac and varnish manufacture																	C			1 space per 1,000 square feet
Sign manufacturing (no outside storage)																	C	P		1 space per 1,000 square feet
Sign manufacturing (with outside storage)																	C	P		1 space per 1,000 square feet
Snuff manufacture																	C			1 space per 1,000 square feet
Soap, detergents, cleaning preparations manufacture																	C			1 space per 1,000 square feet
Starch manufacture																	C			1 space per 1,000 square feet
Steel works, blast furnaces and rolling mills																	C			1 space per 1,000 square feet
Stone cutting or crushing																	C			1 space per 5,000 square feet of land area

Types of Land Uses	Residential Zoning Districts										Nonresidential Zoning Districts								OT&MU	Parking ratio (Also see <a href="#">section 50-112</a> )
	AG	SF-20-E	SF-9	SF-7.5	SF-6		D	MF	MHP	O	NR	GR			C	LI				
Stone, clay, glass and concrete Products (other than handicrafts) manufacture																C				1 space per 1,000 square feet
Textile products manufacture																C	P			1 space per 1,000 square feet
Tire retreading and recapping																C	P			1 space per 1,000 square feet
Truck manufacture																	P			One per 1,000 square feet
Waste paper products manufacture																	P			1 space per 1,000 square feet
Water distillation																P	P			1 space per 1,000 square feet
White lead manufacture																	C			1 space per 1,000 square feet
Wood container manufacture																C	P			1 space per 1,000 square feet
Wood distillation (manufacture of tar, charcoal, turpentine and similar																	C			1 space per 1,000 square feet
Wood preserving manufacture and treatment																	C			1 space per 1,000 square feet
Wood products manufacture																C	P			1 space per 1,000 square feet