



City Commission Regular Meeting

Tuesday, September 21, 2021 at 6:00 PM
Commission Chambers, 124 S Bluff, Anthony, KS 67003

AGENDA

OPENING

- Welcome / Call to Order
- Invocation / Pledge of Allegiance
- Roll Call
- Approval of Agenda

PUBLIC COMMENT

Public Comment allows the public an opportunity to address the City Commission. There is a five minute per person limit on public comments.

PUBLIC HEARINGS - NONE

1. 6:10 p.m. - Findings of Fact, Order and Resolution No. 1091 432 S. Anthony Gilchrist 2021

CONSENT AGENDA

2. Regular Meeting Minutes September 7, 2021
3. Special Appropriations -
 - Fund# 32 Spec. Parks & Rec - Liberty Flags \$492.00 American Flags
 - Fund# 34 Capital Airport - EBH \$5,550.26 Relocation and Demolition
4. Appropriation Ordinance No. 6096 \$256,517.47
5. Approve 09.14.2021 Payroll \$51,863.48
6. KDOT Cost Share Grant Application \$1,483,598.00 (match \$271,719.60)

REGULAR BUSINESS

7. CHS STUCO Requesting to Hold Homecoming Dance at Mun. Hall and Waive Fees - Rhyann Marhsall
8. Update on Dangerous Structure 112 S Jennings
9. RV Dump Station Plans and KDHE Permit
10. RV Dump Station Approval to Submit Bids for Materials

- [11.](#) KAIP KDOT Application for Airport AWOS and Beacon \$280,500.00 (match \$28,000)
- [12.](#) Approve Twp #2 Rural Fire Contract - Ordinance S-303
- [13.](#) Approve Twp #3 Rural Fire Contract - Ordinance S-304
- [14.](#) Approve Twp #4 Rural Fire Contract - Ordinance S-305
- 15. Request to Borrow Chairs from Municipal Hall - Kenny Hodson, Jr.
- 16. Approve Bid for Purchase of 2,100 gallons Av Gas
- [17.](#) Health Nuisance 730 N. Bluff Rozi 2021

STAFF REPORTS

- [18.](#) Administrator Report
- [19.](#) Chief of Police report

EXECUTIVE SESSION - NONE

ADJOURNMENT

Standing Committees:

- | | |
|---|--------------------------------------|
| a. Commissioner of Finance: | Jan Lanie – Sherrie Eaton (Vice) |
| b. Commissioner of Utilities Depts.: | Kenny Hodson Jr. – Jan Lanie (Vice) |
| c. Commissioner of Parks, Police, Fire Dept.: | Sherrie Eaton – Eric Smith (Vice) |
| d. Commissioner of Street Dept., Airport: | Eric Smith – Kenny Hodson Jr. (Vice) |

CITY OF ANTHONY, KANSAS
FINDINGS OF FACT

1. George W. Gilchrist Jr. is the owner of the real estate located at 432 S. Anthony in the City of Anthony, more particularly described as:
LOT FIFTEEN (15) & SIXTEEN (16) IN BLOCK FIVE (5) IN MEIG'S ADDITION IN THE CITY OF ANTHONY, ALL IN HARPER COUNTY, KANSAS.
2. On June 3rd, 2020, the property above was inspected on the outside by City Building Inspector Naaman Clark, City Employee Larry Berry, and City Public Officer Chief Kenny Hodson.
3. On June 4th, 2020, an inspection on the inside was done by Building Inspector Naaman Clark and Public Officer Chief Kenny Hodson.
4. During the inspections it was found: Visible decay of the eaves of the house on the north and south side; several holes in the roof; and holes around the foundation for vermin to be able to enter. On the inside there was a very strong odor and presence of what appeared to be wet and decaying material. It appeared to be black mold on the walls and ceilings, and water damage with the wall and ceilings falling off. You could see daylight coming through the holes in the ceilings. I believe there to be a potential fire hazard if the electricity would be turned back on due to the visible water damage to the walls and ceilings, indicating rainwater is able to contact electrical components. In accordance with the City Housing Minimum Standards Section 4-903, this dwelling is unfit for human use or habitation due to the conditions listed above, in addition to the lack of adequate ventilation, dilapidation, disrepair, uncleanness and unsightly appearance that constitute a blight to adjoining properties, the neighborhood or the city.
5. On August 4th, 2020 the City Commission declared 432 S. Anthony to be a public nuisance, and it shall be unlawful for any person to occupy it as human habitation or to permit it to be occupied or used as a human habitation, and any person violating this article or failing to comply therewith, shall, upon conviction, be deemed guilty of a misdemeanor. The City Commission ruled the structure needed to be repaired or demolished by January 01, 2021.

6. On April 8, 2021 at the Harper County Tax Sale, George W. Gilchrist Jr. bought the property located at 432 S. Anthony, Anthony, Kansas. At the tax sale all bidders were notified about the pending action of the City of Anthony on the above property.
7. Real estate owner George W. Gilchrist Jr. was given notice of this hearing, by certified mail delivered to him on August 11, 2021. George W. Gilchrist Jr. signed and received letter on August 11, 2021. Notice of this hearing was also provided by publication in the *Anthony Republican* on August 11th and 18th, 2021.
8. **IT IS THEREFORE FOUND**, based upon the facts and evidence presented, that the structure upon the above-described premises is dangerous, unsafe, and unfit for human use or habitation.

Adopted by the Anthony City Commission this 21st day of September, 2021.

Gregory L. Cleveland, Mayor

Attest:

Cyndra Kastens, City Clerk

**ORDER AND RESOLUTION No. 1091
CITY OF ANTHONY, KANSAS**

IN THE MATTER OF: George W. Gilchrist Jr., owner of the real estate located at 432 S. Anthony in the city of Anthony, more particularly described as:

LOT FIFTEEN (15) & SIXTEEN (16) IN BLOCK FIVE (5) IN MEIG'S ADDITION IN THE CITY OF ANTHONY, ALL IN HARPER COUNTY, KANSAS

Upon hearing the evidence presented and statements made, it is hereby resolved and ordered as follows:

In the interest of public safety, the owner shall:

1. Total restrict access to the structure upon the real estate described above with the exceptions of the City Public Officer and agents of the City of Anthony and contractors who are engaged in the repair of the structure.
2. If the repair, alteration or improvement of the structure cannot be made at a reasonable cost in relation to the value of the structure, (which is hereby fixed at not over 50 percent as reasonable for such purpose. According to Harper County Appraisers office the house is valued at \$14,850), or if the repairs can be made for less than 50%, this order requires the owner to repair, remove, or demolish such structure by
_____.
3. The owner shall bear full responsibility for any and all expenses and associated with repair and/or demolition of the structures, as well as those necessary to render the premises secure and safe.
4. In the event of demolition or removal of the structure, the owner, at owner's sole expense, shall fill any basement or other excavation, and take any other action necessary to leave the premises in a level and safe condition.
5. Written Findings of Fact have been made contemporaneously herewith and are incorporated by reference herein.
6. Nothing in this order or Findings of Fact may be construed as infringing upon the City of Anthony or its Commission's right, obligation and responsibility to take any action it deems necessary to protect the safety of the public as it relates to the real estate described above or any structures located thereon.

Adopted by the Anthony City Commission this 21st day of September, 2021

Attest:

Gregory L. Cleveland, Mayor

Cyndra Kastens, City Clerk/Administrator



City Commission Regular Meeting

Tuesday, September 07, 2021 at 6:00 PM
Commission Chambers, 124 S Bluff, Anthony, KS 67003

MINUTES

OPENING

- Welcome / Call to Order
- Invocation / Pledge of Allegiance
- Roll Call

PRESENT

Mayor Greg Cleveland
Commissioner Sherrie Eaton
Commissioner Jan Lanie
Commissioner Kenny Hodson Jr.

City Administrator Cyndra Kastens, Deputy City Clerk Sherri Miller, Police Chief Kenny Hodson, Power Plant Superintendent, Larry Berry, Judy Kelley, Vicki Longbine, Denise Fawcett, Barbara Thomas, Phyllis Wiersig, Karen Younce, Wilma Moore, Mason Allman and Erin Albright.

ABSENT

Commissioner Eric Smith

- Approval of Agenda

A motion was made to approve the agenda.

Motion made by Commissioner Lanie, Seconded by Commissioner Eaton.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

PUBLIC COMMENT - NONE

PUBLIC HEARINGS - NONE

CONSENT AGENDA

1. Approve Minutes of August 17, 2021 Regular Meeting and August 31, 2021 Special Meeting
2. Special Appropriations -

Capital Imp Pool Fund #34 - Grainger \$1,153.30 for pool pump

Municipal Eq. Fire Fund#34 - Mobile Radio \$1,203.07 for 3 pagers

Capital Imp Lake Maint & Imp Fund#34 - EBH \$1,600.00 RV Dump Station Engineering

3. Appropriation Ordinance No.6095 \$149,685.46
4. Approve 8.31.21 Payroll \$51,041.41
5. Approval to pay City of Harper for the Hydraulic Studios bill \$2,812.50 for County Eco Devo Video
6. July 2021 Municipal Court Report

Mayor Cleveland asked if any items from the consent agenda should be removed for discussion. Hearing none, a motion was made to approve the consent agenda.

Motion made by Commissioner Eaton, Seconded by Mayor Cleveland.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

REGULAR BUSINESS

7. **Proclamation Declaring September 17-23, 2021 as Constitution Week - Vicki Longbine (DAR)**

Vicki Longbine (DAR) shared history of Constitution Week and asked the Commission to sign the proclamation and dedicate September 17- 23, 2021 as Constitution Week in the City of Anthony. Mayor Cleveland read the proclamation aloud. A motion was made to approve the Proclamation for Constitution Week.

Motion made by Commissioner Hodson Jr., Seconded by Commissioner Lanie.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

8. **Wayne Dennis Recommendation \$390.84 to Trevor Cullop for Eagle Scout Project - Erin Albright**

Erin Albright presented the Wayne Dennis recommendation to fund Trevor Cullop's Eagle Scout project to build candy canes for the Chamber for city-wide Christmas decorations. A motion was made to approve the Wayne Dennis recommendation of \$390.84 for Trevor Cullop's Eagle Scout Project.

Motion made by Commissioner Eaton, Seconded by Commissioner Lanie.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

9. **Harper County Health Foundation Waive Hall Rental Fees \$60.00 - Erin Albright**

Erin Albright requested the city waive the Hall rental fees of \$60 for the Harper County Health Foundation. A motion was made to waive the Hall rental fees for the Harper Co. Health Foundation.

Motion made by Commissioner Hodson Jr., Seconded by Commissioner Eaton.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

10. **Dangerous Structure Resolution No. 1090 206 E. Main Allman 2021**

A public hearing was originally scheduled for this date but due to an error and new resolution had to be adopted. Mr. Allman was present today and spoke with the Commission about his situation.

RESOLUTION NO. 1090

A RESOLUTION AUTHORIZING THE GOVERNING BODY OF THE CITY TO FIX A TIME AND PLACE AT WHICH THE OWNER, THE OWNERS AGENT, ANY LIENHOLDER OF RECORDS AND ANY OCCUPANT OF THE STRUCTURE MAY APPEAR AND SHOW CAUSE WHY THE STRUCTURE SHOULD NOT BE CONDEMNED AND ORDERED REPAIRED OR DEMOLISHED AS AUTHORIZED BY ARTICLE 5 OF CHAPTER VII OF THE CITY OF ANTHONY CITY CODE.

WHEREAS, it is in the interest of the City Commission that the health, safety, and general welfare of the citizens of the City of Anthony be maintained; WHEREAS, the public officer of the City of Anthony has presented a report to the City Commission that a dangerous structure has developed in Lot Four (4) in Block Fifty-one (51) in the City of Anthony, Harper County, Kansas, as shown by the recorded plat thereof. Commonly known as, 206 E. Main, Anthony, Kansas 67003.

WHEREAS, copies of this resolution and a copy of the City Code regarding dangerous structures will be sent to the property owner of record, Mason S. Allman, 4930 E. Pine St., Wichita, KS 67208.

BE IT RESOLVED BY THE CITY COMMISSION that the Public Officers and other Agents of the City of Anthony are authorized to set a Public Hearing for November 02, 2021 at 6:05 p.m. in the City Commission room at the City Building, 124 S. Bluff, Anthony, KS 67003, for the owner, the owner's agent, any lienholder of records and any occupant of the structure may appear and show cause why structure should not be condemned and ordered repaired or demolished.

ADOPTED at Anthony, Kansas this 7th day of September, 2021.

After discussion with Mr. Allman, A motion was made to approve Resolution No. 1090 as presented.

Motion made by Commissioner Lanie, Seconded by Commissioner Hodson Jr..

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

12. Powerplant Engine #2 Turbo Repair \$40,722.68 to Exine, Inc.

Larry Berry presented the bid from Exine, Inc to perform the needed repairs on engine #2 turbo. A motion was made to approve the bid as presented.

Motion made by Commissioner Lanie, Seconded by Commissioner Eaton.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

11. House Bill 2137: Expanded Sunday Sales Times for Cereal Malt Beverage/Liquor

Sherri Miller, Deputy City Clerk, reported on House Bill 2137 which allows for expanded Sunday Sales times for Cereal Malt Beverage/Liquor. The current hours on Sunday Sales is 12:00 noon - 8:00 p.m. Expanded sales allows for 9:00 a.m. - 8:00 p.m. After discussion, the Commission agreed to keep the original hours of 12:00 noon – 8:00 p.m. on Sunday's the same and make no changes at this time.

12. Fall 2021 KDOT Cost Share Grant

Admin Kastens presented information regarding the Fall 2021 KDOT Cost Share Grant. She received guidance from the Commission to reduce the scope of work as recommended by the EBH Engineer and dedicate a 20% match. The Admin will prepare the application under that guidance and place on the consent agenda for the next meeting.

13. CRS Renewal - Floodplain Ordinance Discussion

Admin Kastens informed the Commission of the National Flood Insurance CRS Renewal and discussed the update needed to the Floodplain Ordinance. The Commission guided Admin Kastens to update the floodplain ordinance to stay in the CRS Program and use the update to also remove the variance requirements that property owners are currently facing for garages/sheds built below the BFE.

14. Power Plant Rental House Terms

Admin Kastens sought guidance from the commission on the rental contract details for the Power Plant Rental Houses. After discussion, the Commission provided the following terms to

be placed in all future rental contracts: 1. Houses shall be available for city employees only. 2. \$300 deposit required, rent is \$300 per month. 3. Tenants shall maintain the property in good condition and shall be liable for any damages. 4. Scheduled quarterly inspections of the property shall be performed by the Powerplant Superintendent to check for damages. 5. Contracts shall be a month to month term. 6. Houses sitting vacant for a period of 60 days or more shall be eligible for rent by non-city employees however: non-city employee tenants must vacate the rental within 60 days if a current city employee desires to rent the unit and there are no other units available at that time. If more than one non-city employee house is rented, the most recently rented house shall be the first vacated for first right of rent by a current city employee.

15. **Harper CORE Graduation Gift Cards \$75.00**

Admin Kastens informed the Commission that the local cities wanted to unite to purchase gift cards for the Harper Core Graduates again this year and asked if Anthony wanted to participate. A motion was made to contribute \$75.00 for gift card purchases for Harper CORE Graduation. (Reimbursed to City of Harper)

Motion made by Commissioner Lanie, Seconded by Mayor Cleveland.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

16. **Vehicle Nuisance 218 S. Bluff Elliott 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order

Motion made by Mayor Cleveland, Seconded by Commissioner Eaton.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

17. **Vehicle Nuisance 223 S. Kansas Costley 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order.

Motion made by Commissioner Lanie, Seconded by Mayor Cleveland.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

18. **Vehicle Nuisance 420 N. Massachusetts Holmes 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order.

Motion made by Commissioner Eaton, Seconded by Mayor Cleveland.
Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

19. **Vehicle Nuisance 542 S. Springfield Bagnell 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order.

Motion made by Commissioner Eaton, Seconded by Mayor Cleveland.
Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

20. **Health Nuisance 542 S. Springfield Bagnell 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order.

Motion made by Mayor Cleveland, Seconded by Commissioner Eaton.
Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

21. **Health Nuisance 540 S. Springfield Bagnell 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order.

Motion made by Commissioner Eaton, Seconded by Commissioner Lanie.
Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

22. **Vehicle Nuisance 536 S. Kansas Foss II 2021**

The Commission reviewed the nuisance. A motion was made to approve the Findings of Fact and issue the order.

Motion made by Mayor Cleveland, Seconded by Commissioner Lanie.
Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

23. **Health Resolution No. 1089 302 N. Kansas Fye 2021**

RESOLUTION NO. 1089

A RESOLUTION AUTHORIZING THE PUBLIC OFFICERS
OR OTHER AGENTS OF THE CITY TO ABATE HEALTH NUISANCES
AS AUTHORIZED BY ARTICLE 2 OF CHAPTER VII OF
THE CITY OF ANTHONY CITY CODE.

WHEREAS, it is in the interest of the City Commission that the health, safety, and general welfare of the citizens of the City of Anthony be maintained;

WHEREAS, that a health nuisance has developed in Lot Twelve (12) in Block Ten (10), in the City of Anthony, Harper County, Kansas; as shown by the recorded Plat thereof, 302 N. Kansas, Anthony, Kansas.

WHEREAS, Notice of Violations have been served in person to the property owner of record, Darryl D. Fye & Lilly R. Fye, 911 E. Steadman, Apt. 29, Anthony KS 67003.

WHEREAS, the property owner has not alleviated the alleged violations nor requested a hearing before the City Commission within the time periods specified;

WHEREAS, the public officer and other agents of the City of Anthony presents this Resolution to the City Commission;

BE IT RESOLVED BY THE CITY COMMISSION that the Public Officers and other Agents of the City of Anthony are authorized to abate the conditions causing the violations at the end of, September 17, 2021; and

BE IT FURTHER RESOLVED that the cost incurred by the City shall be charged against the Lot or Lots or parcel of ground on which the nuisance or nuisances were located. The City Clerk shall, at the time of certifying other taxes to the County Clerk certify the cost as provided and the County Clerk shall extend the same on the tax roll and it shall be collected by the County Treasurer and paid to the City as other City taxes are collected and paid.

Amount is due from property owner(s) for services rendered by the City of Anthony upon presentation of bill. Failure of property owner(s) to pay amount due may result in the City bringing an action in district court or causing a special assessment to be levied on the property, or any other manner of collection provided by law.

ADOPTED at Anthony, Kansas, this 7th day of September, 2021.

A motion was made to approve Resolution No. 1089 as presented.

Motion made by Commissioner Lanie, Seconded by Mayor Cleveland.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

STAFF REPORTS

24. Administrator Report

The Admin provided a written report on the Airport Runway Navigational update, Airport RPZ lease, Elliott Estate, Campspot, Creatives Commission, Promote Anthony Video Marketing, CCLIP South Jennings Project, KMEA O&M Plan, CHUBB Inspection, Staffing, and all department activities.

25. Chief of Police report

The police chief reported on the following police department activities:

Inspected some properties

Had the street department clean up the properties at 415 N. Anthony and 501 S. Lincoln

We arrested Lacey Horn and Andrew Blair on traffic offences

We investigated a counterfeit \$100 bill being passed at McDonalds and arrested Andrew Blair for theft and passing counterfeit money

We arrested Norma Bazer on a warrant

We arrested James Arnett on a warrant

We investigated a Child in need of care case and placed a juvenile out of the home

EXECUTIVE SESSION - NONE

ADJOURNMENT

A motion was made to adjourn the regular meeting

Motion made by Mayor Cleveland, Seconded by Commissioner Lanie.

Voting Yea: Mayor Cleveland, Commissioner Eaton, Commissioner Lanie, Commissioner Hodson Jr.

Cyndra Kastens, City Clerk/Administrator

Gregory Cleveland, Mayor

LIBERTY FLAGS INC.

PO Box 55101
Tulsa, OK 74155-1101
Phone 918.834.1110
Fax 918.834.2129
www.LibertyFlags.com

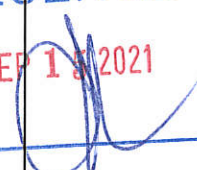


LibertyFlags

The American Wave®

INVOICE

DATE	INVOICE #
9/13/2021	99313

BILL TO		SHIP TO			
CITY OF ANTHONY mewretz@anthonykansas.org P.O. BOX 504 ANTHONY, KS. 67003		CITY OF ANTHONY Attn Melinda 124 S. BLUFF ANTHONY, KS. 67003			
YOUR P.O. #	TERMS	SALESPERSON	DATE SHIPPED	SHIP VIA	F.O.B.
Ordered by: Melinda	Net 15	JJ	9/13/2021	UPS GROUND	DEST
# Ordered	# Shipped	Description		Unit Price	Amount
12	12	USN046 United States 4'x6' outdoor nylon flag		41.00	492.00
1	1	FREE UPS GROUND SHIPPING		0.00	0.00
		UPS Tracking# 1Z7350900366427184			
RECEIVED SEP 15 2021 By  32-01-3040					
		Thank you!			
FEDERAL ID# 73-1406263 PLEASE PAY FROM THIS INVOICE				Total	\$492.00
FOR QUALITY SERVICE AND U.S. MADE FLAGS, LOOK FOR THE AMERICAN WAVE (R) WHEREVER YOU SEE THE LIBERTY FLAGS INC. BRAND.					

Liberty Flags Inc. makes no warranties, express or implied, including but not limited to implied warranties of merchantability or fitness for a particular purpose. In no event shall Liberty Flags Inc. or its company representatives be liable to buyer for incidental or consequential damages.



Evans, Bierly, Hutchison & Associates, P.A.
 1105 Williams Great Bend, KS 67530
 620.793.8411

August 31, 2021

Cyndra Kastens
 City of Anthony
 124 South Bluff
 PO Box 504
 Anthony, KS 67003

Project No: R3703.1

Invoice No: 13318

Project R3703.1 Anthony Airport Runway 36 RPZ Land Acquisition 2019

Project Manager: Darin Neufeld

Professional Services from May 23, 2021 to August 28, 2021

Amount Due

Billing Phase	Fee	Earned
Property Acquisition	18,131.06	18,131.06
Environmental	5,500.00	5,500.00
Relocation	11,479.72	11,479.72
ALP Update	2,473.76	2,473.76
DBE Program	0.00	0.00
Design Demolition	10,039.50	10,039.50
Inspection Demolition	3,048.74	3,048.74
Total Fee	50,672.78	50,672.78
	Previous Fee Billing	45,122.52
	Current Fee Billing	5,550.26
	Total Fee	5,550.26
	Total this Invoice	\$5,550.26

50090



Evans, Bierly, Hutchinson & Associates, P.A.
1105 Williams Great Bend, KS 67530
620.793.8411

Detailed Itemized Statement of Amount Being Claimed by Consultant

8/31/2021

PROJECT NO. R3703.1 Anthony Airport 36 RPZ

Billing Statement No. One (1)**Demoliation Inspection**34-01-0002
"DEMOLITION RPZ"

For Services from 05/23/21 thru 08/28/21

A. Direct Payroll

Employee	Title	Hours	Rate	Extension	Totals
D. Neufeld	Design Engineer (reg hrs)	19	\$43.00	\$817.00	
D. Neufeld	Design Engineer (ot hrs)		\$64.50	\$0.00	
D. Hall	Survey Supervisor (reg hrs)		\$31.00	\$0.00	
F. Feemster	Survey (reg hrs)		\$23.25	\$0.00	
F. Feemster	Survey (ot hrs)		\$34.88	\$0.00	
A. Seaman	Technician (reg hrs)	1.5	\$19.75	\$29.63	

\$846.63**B. Salary related and General Overhead @183.78%
Net Fee**\$1,555.93**C. Total Payroll plus Overhead (A + B) \$2,402.55****D. Total Direct Payroll \$2,402.55****F. Direct Expenses**

Mileage	\$139.20
Meals	\$75.00
Motel	\$116.99
Consultant EMC Labs	<u>\$315.00</u>

Total Direct Expenses: \$646.19**Total Cost Claimed (E + F) \$3,048.74****Less Retainage \$0.00****TOTAL this voucher \$3,048.74**

THANK YOU !

50090



Evans, Bierly, Hutchinson & Associates, P.A.
1105 Williams Great Bend, KS 67530
620.793.8411

Detailed Itemized Statement of Amount Being Claimed by Consultant

8/31/2021

PROJECT NO. R3703.1 Anthony Airport 36 RPZ

Billing Statement No. Six (6)

34-01-0002

Relocation

"RELOCATION RPZ"

For Services from 01/24/21 thru 08/28/21

A. Direct Payroll

Employee	Title	Hours	Rate	Extension	Totals
D. Neufeld	Design Engineer (reg hrs)	20.5	\$43.00	\$881.50	
D. Neufeld	Design Engineer (ot hrs)		\$64.50	\$0.00	
D. Hall	Survey Supervisor (reg hrs)		\$31.00	\$0.00	
F. Feemster	Survey (reg hrs)		\$23.25	\$0.00	
F. Feemster	Survey (ot hrs)		\$34.88	\$0.00	
M. Ford	Survey (reg hrs)		\$16.00	\$0.00	
M. Ford	Survey (ot hrs)		\$24.00	\$0.00	
D. Abbott	Technician (reg hrs)		\$25.00	\$0.00	

\$881.50

B. Salary related and General Overhead @183.78%
Net Fee

\$1,620.02

C. Total Payroll plus Overhead (A + B)

\$2,501.52

D. Total Direct Payroll

\$2,501.52

F. Direct Expenses

Vehicle
Meals
Motel
Consultant

Total Direct Expenses:

\$0.00

Total Cost Claimed (E + F)

\$2,501.52

Less Retainage

\$0.00

TOTAL this voucher

\$2,501.52

THANK YOU !

BALANCE SHEET

CALENDAR 9/2021, FISCAL 9/2021

ACCOUNT NUMBER	ACCOUNT TITLE	PTD BAL.	YTD BAL
01-00-0010	GENERAL OPERATING	17,953.01	1,149,002.55
02-00-0010	WATER	61,408.47	990,610.46
03-00-0010	ELECTRIC	179,943.93	3,434,191.54
04-00-0010	SALES TAX & STATE FEES	9,940.21	39,594.69
05-00-0010	SEWAGE DISPOSAL	33,274.83	284,318.85
10-00-0010	EMP INSURANCE/BENEFIT	16,973.07-	186,137.80
12-00-0010	AIRPORT	1,944.97-	207,438.13
14-00-0010	INDUSTRIAL DEVELOPMENT	2,819.01-	22,847.33
16-00-0010	SERVICE DEPOSIT	1,080.00-	71,384.83
17-00-0010	SPECIAL STREETS & HIGHWAY	801.30-	154,327.88
18-00-0010	PUBLIC RELIEF		26,650.23
19-00-0010	WATER UTILITY RESERVE		103,333.10
21-00-0010	WWTF LOAN 2000		204,449.42
23-00-0010	WATER DEBT SVC RESERVE S2013		100,129.46
24-00-0010	BOND & INTEREST	23,399.83-	15,826.60
25-00-0010	LIBRARY		644.00
26-00-0010	RECREATION COMMISSION	3,108.81	93,093.31
29-00-0010	RECREATION	3,109.27	3,107.27
30-00-0010	MUNICIPAL EQUIPMENT RESERVE	1,203.07-	98,739.08
32-00-0010	SPECIAL PARKS & RECREATION	454.90	21,135.71
34-00-0010	CAPITAL IMPROVEMENT	8,442.89-	1,148,934.57
37-00-0010	GO BONDS S2010 POOL	22,282.50-	6,821.14
40-00-0010	ELECTRIC UTILITY RESERVE		1,635,017.00
41-00-0010	EL UTIL S2017 REV BOND		1,322,350.25
43-00-0010	EL UTIL S2017 BOND RESERVE		214,897.50
45-00-0010	SEWER RESERVE		80,000.00
50-00-0010	WAYNE DENNIS INVESTMENT FUND		750,141.35
54-00-0010	DEBT RES. WATER 2013		169,236.45
60-00-0010	INSURANCE PROCEEDS		26,550.00
71-00-0010	CASH CONTROL		157,016.34
75-00-0010	COSTS OF ISS.ELEC BONDS 2013		2,421.53
81-00-0010	WASTEWATER LAGOON CLEANING		158,300.00
82-00-0010	WATER/EQUIPMENT REPLACEMENT		67,962.03
83-00-0010	ELECTRIC/EQUIP REPLACEMENT		1,897,959.53
85-00-0010	SEWER/EQUIPMENT REPLACEMENT		6,454.04
89-00-0010	TRANS GUEST APPROVED	100.00	11,620.94
96-00-0010	WAYNE DENNIS FUNDS	390.84-	63,487.52
97-00-0011	DT REVIT. REVOLVING LOAN		.56
98-00-0010	TRANSIENT GUEST TAX	2,900.00-	9,098.63
		=====	=====
	PROOF	227,055.95	14,935,231.62
		=====	=====

CLAIMS REPORT

Check Range: 9/09/2021- 9/22/2021

#6096

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
GENERAL OPERATING					
AFLAC	AUG BILL DUE IN SEP		256.33	1249152	9/21/21
AMAZON CAPITAL SERVICES	TRASHBAGS	13.72		45461	9/22/21
AMAZON CAPITAL SERVICES	MIC MAGNET FOR #81	77.92	91.64	45496	9/20/21
ANTHONY GOLF CLUB	3RD QTR GOLF BRD APPROPRIATION		8,000.00	45463	9/22/21
ATMOS ENERGY	4033846667 MUNICIPAL HALL	145.95		45466	9/22/21
ATMOS ENERGY	3018577755	54.79	200.74	45497	9/20/21
CITY OF ANTHONY	PD MAILING		679.89	1249151	9/21/21
COMPLIANCE ONE	AUG MONTHLY CHARGE		7.50	45490	9/22/21
EMERGENCY FIRE EQUIPMENT CO	SIREN SPEAKER & BRACKET		328.00	45471	9/22/21
FOLEY INDUSTRIES	STREET GRADER PARTS		307.96	45472	9/22/21
GENE'S HEARTLAND GOODS	WATER		71.36	45473	9/22/21
GODFREY'S	VEST CARRIER		266.87	45474	9/22/21
GREAT-WEST FINANCIAL	9/14/21 PAYROLL		294.25	1249157	9/21/21
HARPER INDUSTRIES, INC	MOWER BLADE SETS		299.94	45476	9/22/21
IRS PAYROLL TAXES	9/14/21 PAYROLL		3,539.42	1249156	9/21/21
KONE INC	HALL MAINT/CONTRACT		362.63	45479	9/22/21
KPERS	KPERS PAYABLE		2,507.56	1249155	9/21/21
KS DEPT OF REV-WITHHOLDING	STATE TAX PAYABLE		546.89	1249154	9/21/21
MATTHEW W RICKE ATTY AT LAW LL	PD/COURT		765.00	45481	9/22/21
NAPA AUTO PARTS ANTHONY	DURANGO BUILD		1,410.40	45483	9/22/21
OFFICE PLUS OF KANSAS	OFFICE CHAIR MAT		52.99	45484	9/22/21
PAVEMENT MAINTENANCE PRODUCTS	COLD PATCH		669.20	45485	9/22/21
PHIL'S REPAIR	FIRE #55 & #57 SERVICE		786.57	45486	9/22/21
RAINBOW FIREWORKS	BLUE BACKERS FIREWORKS		454.91	45488	9/22/21
TERMINIX PROCESSING CENTER	HALL PEST CONTROL		69.00	45491	9/22/21
US BANK VOYAGER FLEET SYS	POLICE GAS		2,410.05	45502	9/20/21
VISA	STALKER RADAR	264.79		1249149	9/21/21
VISA	DURANGO	431.62	696.41	1249150	9/21/21
WATCHGUARD	THUMB DRIVES FOR CAMERAS		155.00	45493	9/22/21

01 GENERAL OPERATING TOTAL 25,230.51

WATER					
AFLAC	AUG BILL DUE IN SEP	142.59	1249152	9/21/21	
AMAZON CAPITAL SERVICES	RUBBER BANDS, TRASH BAGS	1.74	45461	9/22/21	
JUSTIN ARNOLD	BOOTS	50.00	45465	9/22/21	
ATMOS ENERGY	4014536644	99.76	45497	9/20/21	
CAMPSPOT	AUGUST MARKET PLACE	123.74	45498	9/20/21	
CITY OF ANTHONY	WATER SAMPLE MAILING	148.03	1249151	9/21/21	
CITY OF HARPER	PIONEER FEED	525.99	45467	9/22/21	
COMPLIANCE ONE	AUG MONTHLY CHARGE	3.75	45490	9/22/21	
CORE & MAIN LP	3" SWIVEL-WATER FILL STATION	3,930.28	45468	9/22/21	
GENE'S HEARTLAND GOODS	WATER SUPPLIES	95.18	45473	9/22/21	
GREAT-WEST FINANCIAL	9/14/21 PAYROLL	31.95	1249157	9/21/21	
HARPER INDUSTRIES, INC	MOWER BLADE SETS	149.97	45476	9/22/21	
IRS PAYROLL TAXES	9/14/21 PAYROLL	1,906.61	1249156	9/21/21	
KPERS	KPERS PAYABLE	1,407.63	1249155	9/21/21	
KS DEPT OF REV-WITHHOLDING	STATE TAX PAYABLE	287.10	1249154	9/21/21	
MICROSOFT AZURE	USAGE CHARGE	6.70	45482	9/22/21	
NAPA AUTO PARTS ANTHONY	PARTS	101.72	45483	9/22/21	
OFFICE PLUS OF KANSAS	OFFICE CHAIR MAT	46.07	45484	9/22/21	
PHIL'S REPAIR	WATER CAR WASH	23.75	45486	9/22/21	
POSTMASTER	POSTAGE FOR BILLS OCT 10TH	162.50	45487	9/22/21	

CLAIMS REPORT

Check Range: 9/09/2021- 9/22/2021

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
SALINA SUPPLY CO.	HYDRANT FOR CAMPSITE A		120.00	45489	9/22/21
TELE-COMMUNICATIONS INC	ANSWERING SERVICE		90.00	45501	9/20/21
ULINE	SHOP EYE WASH FAUCET		52.40	45492	9/22/21
US BANK VOYAGER FLEET SYS	WATER GAS		748.97	45502	9/20/21
VISA	PIONEER FEED	74.90		1249149	9/21/21
VISA	PIONEER FEED	91.25	166.15	1249150	9/21/21

	02 WATER TOTAL		10,422.58		
ELECTRIC					
AFLAC	AUG BILL DUE IN SEP		341.28	1249152	9/21/21
AMAZON CAPITAL SERVICES	ELECTRICAL RECEPTACLE	33.65		45461	9/22/21
AMAZON CAPITAL SERVICES	PRINTER INK	74.97	108.62	45496	9/20/21
JUSTIN ARNOLD	BOOTS		50.00	45465	9/22/21
AT&T	PLANT PHONE/LONG DISTANCE		188.81	45460	9/22/21
ATMOS ENERGY	3052114529 71 C RENTAL HOUSE		23.12	45466	9/22/21
CITY OF ANTHONY	OFFICE MAILING		42.09	1249151	9/21/21
CITY OF HARPER	PIONEER FEED		525.99	45467	9/22/21
COMPLIANCE ONE	AUG MONTHLY CHARGE		3.75	45490	9/22/21
GENE'S HEARTLAND GOODS	WATER		99.21	45473	9/22/21
GREAT-WEST FINANCIAL	9/14/21 PAYROLL		329.45	1249157	9/21/21
HARPER COUNTY SOLID WASTE	DUMP OLD POLES FROM STORM		800.80	45475	9/22/21
IRS PAYROLL TAXES	9/14/21 PAYROLL		4,222.45	1249156	9/21/21
KMEA EMP2 OPERATING ACCOUNT	AUGUST PURCHASED POWER		158,871.29	45478	9/22/21
KANSAS MUNICIPAL GAS AGENCY	AUGUST PLANT GAS		91.67	45477	9/22/21
KPERS	KPERS PAYABLE		2,995.07	1249155	9/21/21
KS DEPT OF REV-WITHHOLDING	STATE TAX PAYABLE		714.76	1249154	9/21/21
MICROSOFT AZURE	USAGE CHARGE		13.39	45482	9/22/21
NAPA AUTO PARTS ANTHONY	PLANT REPAIRS FOR TURBO		430.68	45483	9/22/21
OFFICE PLUS OF KANSAS	OFFICE CHAIR MAT		46.07	45484	9/22/21
PHIL'S REPAIR	ELEC CAR WASH		21.50	45486	9/22/21
POSTMASTER	POSTAGE FOR BILLS OCT 10TH		225.00	45487	9/22/21
SHEPHERD OIL COMPANY	ICE		7.83	45500	9/20/21
TELE-COMMUNICATIONS INC	ANSWERING SERVICE		90.00	45501	9/20/21
ULINE	SHOP EYE WASH FAUCET		52.40	45492	9/22/21
US BANK VOYAGER FLEET SYS	ELECT DIESEL		1,291.58	45502	9/20/21
VISA	PIONEER FEED	109.60		1249149	9/21/21
VISA	WIRE ROPE FOR ELEC DEPT	541.25	650.85	1249150	9/21/21
WHEATLAND ELECTRIC COOP INC	LAKE LIGHTS		17.49	45494	9/22/21

	03 ELECTRIC TOTAL		172,255.15		
SEWAGE DISPOSAL					
AFLAC	AUG BILL DUE IN SEP		84.84	1249152	9/21/21
JUSTIN ARNOLD	BOOTS		50.00	45465	9/22/21
ATMOS ENERGY	3018972372 SEWER		155.12	45466	9/22/21
CITY OF ANTHONY	OFFICE MAILING		28.08	1249151	9/21/21
CITY OF HARPER	PIONEER FEED		525.99	45467	9/22/21
COMPLIANCE ONE	AUG MONTHLY CHARGE		3.75	45490	9/22/21
GENE'S HEARTLAND GOODS	SEWER SUPPLIES		89.10	45473	9/22/21
GREAT-WEST FINANCIAL	9/14/21 PAYROLL		16.85	1249157	9/21/21
HARPER INDUSTRIES, INC	MOWER BLADE SETS		149.97	45476	9/22/21
IRS PAYROLL TAXES	9/14/21 PAYROLL		773.13	1249156	9/21/21
KPERS	KPERS PAYABLE		536.72	1249155	9/21/21

CLAIMS REPORT

Check Range: 9/09/2021- 9/22/2021

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
KS DEPT OF REV-WITHHOLDING	STATE TAX PAYABLE		110.97	1249154	9/21/21
MICROSOFT AZURE	USAGE CHARGE		6.69	45482	9/22/21
NAPA AUTO PARTS ANTHONY	PARTSGO BUILD/PLANT TURBO REPR		25.98	45483	9/22/21
POSTMASTER	POSTAGE FOR BILLS OCT 10TH		162.50	45487	9/22/21
US BANK VOYAGER FLEET SYS	SEWER GAS		613.28	45502	9/20/21
VISA	PIONEER FEED	63.34		1249149	9/21/21
VISA	PIONEER FEED	44.50	107.84	1249150	9/21/21

	05 SEWAGE DISPOSAL TOTAL		3,440.81		
EMPLOYEE BENEFIT					
BCBS OF KANSAS	OCT 2021		28,425.93	1249148	9/21/21

	10 EMPLOYEE BENEFIT TOTAL		28,425.93		
AIRPORT					
ECK AGENCY, INC.	AIRPORT COMM LIABILITY		3,600.00	45469	9/22/21
HAZEL'S SHEET METAL INC	REPAIR AC IN LOUNGE		106.80	45499	9/20/21

	12 AIRPORT TOTAL		3,706.80		
LIBRARY					
ANTHONY LIBRARY	APPROPRIATION AS BUDGETED		4,791.10	45464	9/22/21

	25 LIBRARY TOTAL		4,791.10		
RECREATION COMMISSION					
ACROSS THE HALL BOUTIQUE	VB SHIRTS		804.00	45452	9/09/21
DIRECTOR OF TAXATION	AUG REC'S SALES TAX		66.39	1249153	9/21/21
GENE'S HEARTLAND GOODS	CONCESSION POOL & LATE FEE		400.17	45453	9/09/21
HOME LUMBER & SUPPLY INC	PADLOCK		37.98	45454	9/09/21
IRS PAYROLL TAXES	9/14/21 PAYROLL		93.04	1249156	9/21/21
KS DEPT OF REV-WITHHOLDING	STATE TAX PAYABLE		9.91	1249154	9/21/21

	26 RECREATION COMMISSION TOTAL		1,411.49		
SPECIAL PARKS & RECREATIO					
LIBERTY FLAGS, INC	USA FLAGS		492.00	45480	9/22/21

	32 SPECIAL PARKS & RECREATIO TOTAL		492.00		
CAPITAL IMPROVEMENT FUND					
EVANS-BIERLY-HUTCHISON & ASSOC	DEMOLITION RPZ		5,550.26	45470	9/22/21

	34 CAPITAL IMPROVEMENT FUND TOTAL		5,550.26		
TRANSIENT GUEST APPROVED					
ANTHONY DISC GOLF CLUB	TGT APPROVED DISC GOLF TOURNEY		400.00	45462	9/22/21

	89 TRANSIENT GUEST APPROVED TOTAL		400.00		
WAYNE DENNIS FUNDS					

CLAIMS REPORT
Check Range: 9/09/2021- 9/22/2021

VENDOR NAME	REFERENCE	AMOUNT	VENDOR TOTAL	CHECK#	CHECK DATE
CULLOP TREVOR	EAGLE SCOUT PROJECT		390.84	45495	9/22/21

	96 WAYNE DENNIS FUNDS TOTAL		390.84		
			=====		
	Accounts Payable Total		256,517.47		

**CLAIMS REPORT
CLAIMS FUND SUMMARY**

FUND	NAME	AMOUNT
01	GENERAL OPERATING	25,230.51
02	WATER	10,422.58
03	ELECTRIC	172,255.15
05	SEWAGE DISPOSAL	3,440.81
10	EMPLOYEE BENEFIT	28,425.93
12	AIRPORT	3,706.80
25	LIBRARY	4,791.10
26	RECREATION COMMISSION	1,411.49
32	SPECIAL PARKS & RECREATIO	492.00
34	CAPITAL IMPROVEMENT FUND	5,550.26
89	TRANSIENT GUEST APPROVED	400.00
96	WAYNE DENNIS FUNDS	390.84

	TOTAL FUNDS	256,517.47

PRUPDT00 Thu Sep 9, 2021 8:39 AM
03.03.21 PAID THROUGH 9/05/2021
CALENDAR 9/2021, FISCAL 9/2021 DATES 9/05/2021 -- 9/14/2021

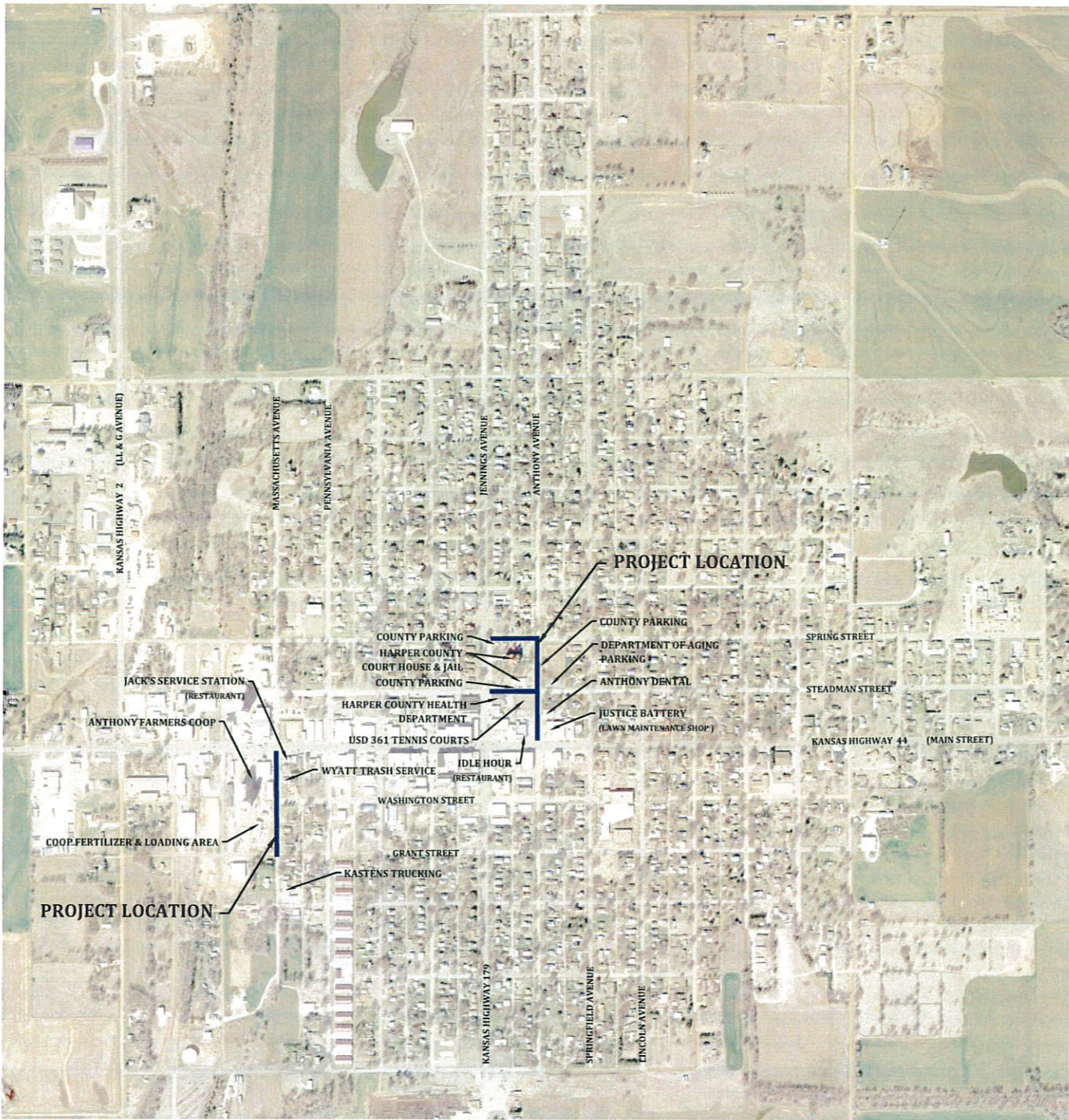
City of Anthony KS
COST CENTER REPORT
FIRST PAY OF MONTH

OPER: J D
JRNL 3643

PAGE

Item 5.

C CTR DESCRIPTION	REG HRS	OT HRS	VAC HRS	SCK HRS	TOT HRS	REG AMT	OT AMT	VAC AMT	SCK AMT	TOT AMT	DEDUCTIONS
101 GEN. - ADM.	19.20	.00	.00	.00	26.75	1023.66	.00	.00	.00	1153.37	301.27
102 POLICE	496.10	.00	.00	.00	540.00	9522.12	.00	.00	.00	10311.44	1590.34
104 STREET	217.00	.00	.00	.00	240.00	4910.39	.00	.00	.00	5401.80	981.09
105 GEN-ZONING	.00	.00	.00	.00	.00	139.81	.00	.00	.00	139.81	.00
230 WATER-LAKE	83.00	.00	.00	.00	83.00	1251.81	.00	.00	.00	1251.81	368.26
231 WATER-PRODUCTIO	8.00	.00	.00	.00	8.00	128.00	.00	.00	.00	128.00	.00
232 WATER-DISTRIBUT	381.98	.00	.00	.00	398.70	5171.71	.00	.00	.00	5467.54	1471.74
233 WATER-COMM& GEN	77.37	.00	.00	.00	84.41	2212.72	.00	.00	.00	2359.22	.00
331 ELECTRIC-PROD	548.50	.00	.00	.00	576.00	6745.30	.00	.00	.00	7430.00	1344.28
332 ELEC-DISTRIBUTI	617.79	.00	.00	.00	658.60	7739.54	.00	.00	.00	8635.51	2074.62
333 ELECTRIC-COMM	103.07	.00	.00	.00	112.53	3690.27	.00	.00	.00	3887.14	422.86
533 SEWER-COMM & GE	28.01	.00	.00	.00	31.31	618.93	.00	.00	.00	687.60	.00
534 SEWER-TREATMENT	239.98	.00	.00	.00	256.70	2528.69	.00	.00	.00	2824.52	.00
2601 REC - GEN	14.00	.00	.00	.00	14.00	224.00	.00	.00	.00	224.00	.00
2621 REC - POOL	24.00	.00	.00	.00	24.00	384.00	.00	.00	.00	384.00	.00
5102 OT GEN POLICE	.00	9.75	.00	.00	9.75	.00	235.50	.00	.00	235.50	.00
5230 LAKE-OVERTIME	.00	.25	.00	.00	.25	.00	5.63	.00	.00	5.63	.00
5231 OT WATER PROD	.00	4.00	.00	.00	4.00	.00	214.24	.00	.00	214.24	.00
5232 OT WATER DIST	.00	7.25	.00	.00	7.25	.00	294.85	.00	.00	294.85	.00
5233 OT WA COMM/GEN	.00	.25	.00	.00	.25	.00	5.55	.00	.00	5.55	.00
5331 OT ELEC PROD	.00	4.00	.00	.00	4.00	.00	213.64	.00	.00	213.64	.00
5332 OT ELEC DIST	.00	9.50	.00	.00	9.50	.00	316.73	.00	.00	316.73	.00
5534 OT SEWER TREAT	.00	6.00	.00	.00	6.00	.00	249.58	.00	.00	249.58	.00
6102 SHIFT GEN POLIC	.00	.00	.00	.00	84.00	.00	.00	.00	.00	42.00	.00
99999 DISTRIBUTED	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	492.76
TOTAL	2858.00	41.00	.00	.00	3179.00	46290.95	1535.72	.00	.00	51863.48	9047.22



STREET IMPROVEMENTS
LOCATION MAP
ANTHONY, KANSAS



Project Scope:

The City of Anthony is requesting assistance to help reconstruct a total of six (6) blocks of street located at two separate locations in Anthony. The City will provide 20-percent of the participating project costs and all of the inspection and engineering fees. All of the matching funds are available and the City is ready to move forward on this project now. No additional right-of-way is anticipated.

The City has a street condition map, and this project represents the bulk of the streets that are listed in poor condition that serve essential businesses and offices. The first section is two (2) blocks long and is located on Massachusetts Ave in the southwest part of town. This street serves the Coop, the Coop fertilizer loading area, a trucking company and several other businesses. The existing pavement is asphalt and due to truck traffic has developed numerous cracks, potholes and is generally deteriorating. Patching is no longer effective and this has made travel on these streets rough and unpleasant. This pavement will be removed and replaced with 7" concrete pavement over a 6" aggregate base. Sections of the curb and gutter will also be replaced.

The second section is four blocks long and is located on Anthony Ave, Spring Street and Steadman Street in the north central part of town. This serves the Court House, the County Jail, County Health Department and several other offices and businesses. The existing pavement in this area is concrete, which has a 1" asphalt overlay. This area has some of the oldest pavement in town and the concrete and curb and gutter has broken up in many locations. In addition the sidewalks around the court house square are not ADA compliant. This pavement will be removed and replaced with 6" concrete pavement over a 6" aggregate base. The curb and gutter, sidewalk ramps, and much of the sidewalks will also be replaced.



Anthony Ave. looking South towards Main St.



Corner of Anthony Ave. and Steadman St. looking south

Project Significance:

This project is a priority because it provides access to many of Harper County's essential offices and important local businesses. The project area includes the County Jail, County Health Department, District Court, Department of Aging Parking, Community Trash Service, and all County Courthouse Services. This project also houses the tennis courts that serve three cities in the county for all their school meets, practices, and regional events. Another important business located in the improvement area is the Anthony COOP which serves as a massive hub to the agricultural market which is the main industry in this part of the state. In addition to the services listed above this project also addresses road conditions at restaurants, a dental office, a battery shop, and a trucking company. Many of these businesses have been in operation for years in Anthony but the roads leading to their drives are in very poor condition.

These vital services must have safe and efficient travel routes for the community to access these services. Reliable access is a must in order for businesses to continue to thrive in this rural area of Kansas. The City ranked the conditions of our streets and identified those which are in the poorest condition. Of these, the City then identified which streets are the most important to the continued commercial economy that we did not have the ability to fix in-house. None of these streets are located on a connecting link road or other travel path that would be eligible for alternative funding. In order to repair these vital streets the City will need some form of assistance.



Corner of Spring St. and Jennings Ave. looking west



Corner of Steadman St. and Anthony Ave. looking west

Project Benefits:

Over the last 10 years the City has spent a significant amount of money, leveraged with KDOT grants working on the highways through town, so a large majority of the streets connecting the different parts of town are in good shape. The streets used to access many of the businesses and services are located off of the highways and these access roads are in poor condition. The City needs to have reliable access for these businesses to remain in service, for jobs to remain available, and for our economy to remain stable. The costs for such need can be far too great for small communities to meet. Having the ability to repair these access streets would greatly impact our local road system by securing safe and reliable access to our vital services and local businesses for years to come. As a rural community in Kansas, this access is vital to the continuation of our economy.



Massachusetts Ave. looking south



Massachusetts Ave. looking south towards Grant St.

This project is a priority for the City of Anthony because it is a critical piece of the city's transportation infrastructure. It impacts the court house and a number of important businesses and services. The section of streets around the court house is not handicap accessible, and in all sections the pavement is deteriorating and much of the curb and gutter is in need of repair. Letters of support from the local community have been included with this application.



Sidewalk at the corner of Steadman St. and Jennings Ave.



Corner of Spring St. and Jennings Ave. looking west

OPINION OF PROBABLE COST STREET IMPROVEMENTS CITY OF ANTHONY				
EBH ENGINEERS			9/14/2021	
ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1 Contractor Construction Staking	1	L.S.	\$16,000.00	\$16,000.00
2 Mobilization	1	L.S.	\$70,000.00	\$70,000.00
3 Common Excavation	1532	C.Y.	\$40.00	\$61,280.00
4 Rock Excavation	1760	C.Y.	\$40.00	\$70,400.00
5 Curb & Gutter, Combined (AE)	4097	L.F.	\$34.00	\$139,298.00
6 Edge Curb	270	L.F.	\$34.00	\$9,180.00
7 Concrete Pavement (6" Uniform)(AE)	6175	S.Y.	\$70.00	\$432,250.00
8 Concrete Pavement (7" Uniform)(AE)	2930	S.Y.	\$75.00	\$219,750.00
9 Aggregate Base (AB-1)(6")	9105	S.Y.	\$18.00	\$163,890.00
10 Geosynthetic Reinforcement (For Base)	9105	S.Y.	\$4.00	\$36,420.00
11 Sidewalk Construction (4")(AE)	282	S.Y.	\$65.00	\$18,330.00
12 Sidewalk Ramp	31	E.A.	\$800.00	\$24,800.00
13 Traffic Control	1	L.S.	\$12,000.00	\$12,000.00
14 Contingencies	1	L.S.	\$85,000.00	\$85,000.00
CONSTRUCTION COST				\$1,358,598.00
DESIGN ENGINEERING				\$53,000.00
CONSTRUCTION OBSERVATION				\$72,000.00
TOTAL PROJECT COST				\$1,483,598.00

September 16, 2021

Mr. Frank Weinhold, PE
Kansas Department of Environment
Municipal Programs Section
1000 SW Jackson Street, Ste 400
Topeka, Kansas 66612

Re: Anthony, Kansas
Anthony City Lake RV Sewer Improvements

Dear Frank,

Enclosed please find the following for your review and approval for the afore-mentioned project:

- Permit Application including checklist, design calculations, and pump curve.
- Plan Set.
- Specifications.

The City of Anthony will act as the general contractor for this project.

The City intends to connect a full service RV campsite and bathhouse to the pump station in the future. Additional capacity and connection provisions have been included for this purpose.

Please call if you have questions or comments.

Sincerely,



Michael A. Younger, PE
Evans-Bierly-Hutchison & Associates, P.A.
MikeY@EBHengineering.com
620-672-1112

Enc
PC City of Anthony (w/o enc)



STATE OF KANSAS
DIVISION OF ENVIRONMENT
APPLICATION FOR SEWER EXTENSION PERMIT

The applicant hereby requests a permit for extension of sanitary sewers in compliance with the requirements of K.S.A. 65-165 and K.S.A. 65-166. Plans and specifications submitted must comply with the Kansas Department of Health and Environment, Division of Environment, "Minimum Standards of Design for Water Pollution Control Facilities."

APPLICANT DATA

1. Anthony City Lake RV Service Station Improvements 2021
Name of Project (as it appears on plans)
2. City of Anthony, Kansas
Name of Applicant (Governmental Unit)
3. M - A R 0 4 - 0 0 0 2
Kansas Water Pollution Control Permit Number for the Wastewater Treatment Facility which will treat the flow from this sewer extension.
4. Evans, Bierly, Hutchison & Associates, P.A.
Name the engineer or engineering firm responsible for inspection of this extension.

In making application for a sewer extension permit, I hereby certify that continuous engineering observation of the construction of the proposed improvement, including building connections, shall be provided in accordance with Kansas Department of Health and Environment Regulation 28-16-55.

Signature: _____
Authorized Official

Print Name: _____

Title: _____

Mailing Address: City of Anthony
124 S Bluff Avenue
Anthony, Kansas 67003

E-Mail Address: _____

DESIGN ENGINEER DATA

1. Anthony City Lake RV Service Station Improvements 2021
Name of Project (as it appears on plans)
2. Engineers estimate of construction cost \$95,000
3. What are the conditions and capacity of the existing sewer system downstream of this sewer extension?
 - a. What is the present average daily flow at the wastewater treatment facility? 0.19 MGD
CIRCLE YES OR NO
 - b. Do the downstream sewer lines presently convey the peak flow without inducing backup into buildings or bypass to the environment? ☒ YES NO
 - c. Can the downstream receiving sewers convey the additional peak design flow generated after completion of this sewer extension without backup into buildings or bypassing to the environment? ☒ YES NO
 - d. If the answer to either of the above questions is NO, what steps are being taken to eliminate or prevent bypass or service line backup conditions?

_____ Attach additional pages if necessary.
4. What are the design flows for this sewer extension?
(Include a copy of the calculations for flow and list the following values)
Average daily 0.011 MGD Peak 0.054 MGD
5. If wastewater pumping facilities are included in the project, provide with this application the following: system curve, pump curve and total head calculations and planned control elevations i.e. pumps off, low level on, high level on, and alarm level. see attached

The information contained above is accurate to the best of my knowledge.



P.E. Stamp/Date/Signature

Signature: Michael A. Younger
Kansas Licensed Engineer

Print Name: Michael A. Younger, P.E

Address: 306 S. Main Street
Pratt, Kansas 67124

E-Mail Address: MikeY@EBHengineering.com

KDHE PUMP STATION REVIEW CHECK LIST

(Sewage pumping stations, designed to serve more than one single family residence.)

Anthony City Lake RV Pump Station at Anthony, Kansas

Pump Station Site:

- ☒ Protected from the 100 year flood. Located outside Zone A on FEMA Panel 200125 0005 A.

Reliability:

One or more of the following backup provisions required:

- ☒ A power supply transfer switch and connection for a portable generator. Manual Transfer Switch to be installed.
- ☐ An automatic power supply transfer switch and dedicated emergency generator onsite.
- ☐ Connection of the pump station to at least two independent power supplies from separate sub-stations, with automatic transfer switch.
- ☐ Piping which permits quick connection of a portable internal combustion engine wastewater pump. This portable pump must be owned by the sewer authority and have a pumping capacity equal or greater than the firm capacity of the pump station. The wet well and adjacent interceptor must have adequate capacity to provide two hours of storage above the high level alarm prior to surcharging an section of upstream sewer line which results in backup into a building sewer service line.

Alarm:

One or more of the following alarm systems required:

- ☒ Red light and horn alarm. Control Panel to be outfitted with red light and horn alarm.
- ☐ Radio alarms.
- ☐ Telephone dialer.

Pump Design:

- ☒ Pumps shall be capable of passing spheres of at least three inches in diameter. This requirement is not applicable to grinder type pumps. Pumps will be grinder type.
- ☒ Pump suction and discharge openings shall be at least four inches in diameter. This requirement is not applicable to grinder type pumps. Pumps will be grinder type.
- ☒ A minimum of two pumps shall be provided. Duplex station to be constructed.
- ☒ Each pump should be capable of pumping the design peak flow; minimum requirement is the projected peak hourly flow. Peak hourly flow is usually between 2 and 5 times average daily flow. Design Pump Flow = 50 gpm, Avg Daily Flow = 7 gpm, Estimated Peak Flow = 37 gpm.

Head Calculations:

- ☒ Pump curve matches system curve at specified head and discharge. Pump Curve Attached. System head calculated at 115 ft. at 50 GPM and low wetwell.

Dry Well: Not Applicable

- ☐ A separate sump pump shall be provided to dewater leakage, ground water seepage or condensation. All floors shall be sloped to drain the dry well.

Wet Well:

- ☒ The wet well floor should have a minimum slope of 1 to 1.75 to provide drainage to the suction area. See Plan Sheet C-503.
- ☒ The flat bottom of the wet well should be as minimal as possible, preferably twice the diameter of the suction bell or the submersible pump. See Plan Sheet C-503.
- ☒ Valves should not be installed in fixed positions in the wet well. Under no conditions should the operator have to routinely enter the wet well for operation or maintenance. Check and Isolation valves installed in valve vault.
- ☒ The detention volume in the wet well between the low level pumps on and pumps off elevation should be adequate to provide a minimum pump cycle time of 5 minutes or more.

Minimum Pump Cycle Time

$$\text{Cycle time} = \frac{4 (V)}{D} = \frac{4 * 94 \text{ Gal}}{50 \text{ GPM}} = \underline{7.5 \text{ minutes.}}$$

V= Gallons of Pumped Volume (low level on to pumps off)
D= Gallons per Minute (pump rate)

Valve Vaults:

- ☒ The vault should have provisions for dewatering. The floor may have a French drain. Drain piping which discharges to the wet well may be installed, however some provisions to prevent wet well gasses from flowing back to the valve vault must be included, e.g., plumbing trap. If sump pump is installed the design must preclude freezing. Valve vault will have rock floor French drain.

Ventilation: Not Applicable

- ☐ Where the pumps are located below the ground surface, mechanical ventilation is required in dry wells.
- ☐ There shall be no interconnection between the wet well and dry well ventilation system, and air intake should be as far away from vents as possible.
- ☐ Continuous ventilation shall provide at least 6 complete air changes per hour.
- ☐ Intermittent ventilation shall provide at least 30 complete air changes per hour. Intermittent systems shall be activated upon entrance into the dry well.

Flow Measurement:

- ☒ Running time meters, which may be used to estimate flow, should be included. Included in control panel.
- ☐ At larger pump stations, average daily flows in excess of one mgd, flow meters should be installed to provide accurate flow data. N/A

Pressure Tests:

- ☒ Upon completion of construction of the force main, including backfill and all trench compaction, a pressure test shall be performed upon the entire force main. As Per Spec Section 33 34 00 3.03 – Testing.

Bypass Line: Not Applicable

If an emergency overflow line is installed it must:

- ☐ Discharge to the surface, it shall not discharge into a storm sewer pipe.
- ☐ Include a flap gate or similar device to prevent the entrance of animals and it shall discharge at a location that is easily visible.

Force Mains:

- ☒ At the operational pumping rate a velocity of at least 2 feet per second shall result in the force main.
Design Pump Flow = 50 gpm, D = 2.83", V = 2.6 ft/s
- ☒ The minimum force main diameter for raw wastewater shall be 4 inches except when grinder pumps are utilized. Grinder Pump Exemption.
- ☒ An air relief or an air/vacuum relief valve should be located at high points along the course of the force main in which the design engineer anticipates the need for such valves to prevent air locking or excessive negative pressures within the force main. See Sta 15+83, 24+04, 41+48.
- ☒ The force main shall terminate at a manhole or other flow control structure. See Sta 67+00.
- ☒ Thrust forces in pressurized pipelines shall be restrained or anchored to prevent excessive movement and joint separation under all projected conditions. Acceptable methods include thrust blocking and various types of restrained joints. Force main will consist of jointless HDPE construction.

Construction Materials:

The following materials are approved for force main:

- ☐ Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR) and Fittings, ASTM D2241.
- ☐ Ductile Iron Pressure Pipe, ASTM A 377.
- ☐ Ductile Iron Sewer Pipe USASI A 21.50 (or AWWA H3), USASI A 21.51 (or AWWA C151), and A 21.52.
- ☒ Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Outside Diameter, ASTM D 3035.
- ☐ Polyvinyl Chloride (PVC) Pressure Pipe, ANSI/AWWA C900.

Additional materials may be approved on a case by case basis when justified by the design engineer.

Anthony City Lake RV Service Station Improvements 2021 - Design Calculations

Project Engineer: MAY

Date: 09/08/21

Input

Calculated

Assumptions: Headloss calculations based on Hazen-Williams formula for friction loss

$$H_f (\text{friction}) = (Q \text{ gpm} / (.006756 * C * D_{in}^{2.63}))^{1.85} * L / 1000$$

$$H_{ml} (\text{minor loss}) = K(V^2 / 2g)$$

System Head Calculation

Top of Wetwell	1336.50 ft
Water Level in Wetwell	1332.25 ft
Head Loss From Wetwell to Receiving Manhole	
Q	50 gpm
Pipe distance	6592 ft.
Minor losses	100 ft.
Equivalent Pipe Length	6692 ft.
Pipe Diameter (SDR 9 IPS HDPE)	2.826 in.
Hazen Williams C	130
Head loss	75.47 ft
Velocity	2.56 fps
Elevation in Receiving Manhole	1371.50 ft
Change in Elevation	39.25 ft
TDH	114.72 ft

Pumping Level Parameters

Pump Off Elevation	1332.25 ft
Low Level On Elevation	1333.25 ft
High Level On Elevation	1333.75 ft
Alarm Level Elevation	1333.75 ft

Peak Flow Calculations

<u>Dump Station Site</u>	<u>GPM</u>
4 Travel Trailers / hr @ 120 gal / trailer	12.0
<u>Proposed Bath House</u>	
6 Toilets @ 1.28 gal / min	7.7
6 Showers @ 1.5 gal/min	9.0
4 Sinks @ 1.0 gal / min	4.0
<u>Proposed Full Service RV Sites</u>	
10 Sites @ .09 GPM (125 GPD) x 5.0 peak	4.5
Peak Flow	37.2
Avg Flow (Peak/5)	7.4



Customer :
Reference :

Pump Performance Data Item 9.
Ebara Quotation System 21.3.1

Item number : Default
Service :
Quantity : 1
Quote number :

Product Description : 50DGFU63.7
Stages : 1
Based on curve number : DGII-C605 606-9101
Date last saved : 08 Sep 2021 3:14 PM

Operating Conditions

Flow, rated : 50.00 USgpm
Differential head / pressure, rated (requested) : 115.0 ft
Differential head / pressure, rated (actual) : 116.6 ft
Suction pressure, rated / max : 0.00 / 0.00 psi.g
NPSH available, rated : Ample
Site Supply Frequency : 60 Hz

Performance

Speed criteria : Synchronous
Speed, rated : 3465 rpm
Impeller diameter, rated : 157 mm
Impeller diameter, maximum : 162 mm
Impeller diameter, minimum : 146 mm
Efficiency : -
NPSH required / margin required : - / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow) : 1,054 / - US Units
MCSF : 5.02 USgpm
Head, maximum, rated diameter : 140.0 ft
Head rise to shutoff : 21.75 %
Flow, best eff. point : -
Flow ratio, rated / BEP : -
Diameter ratio (rated / max) : 96.91 %
Head ratio (rated dia / max dia) : 90.41 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / # / 1.00
Selection status : Acceptable

Liquid

Liquid type : Cold Water
Additional liquid description :
Solids diameter, max : 0.00 mm
Solids concentration, by volume : 0.00 %
Temperature, max : 68.00 deg F
Fluid density, rated / max : 1.000 / 1.000 SG
Viscosity, rated : 1.00 cP
Vapor pressure, rated : 0.34 psi.a

Material

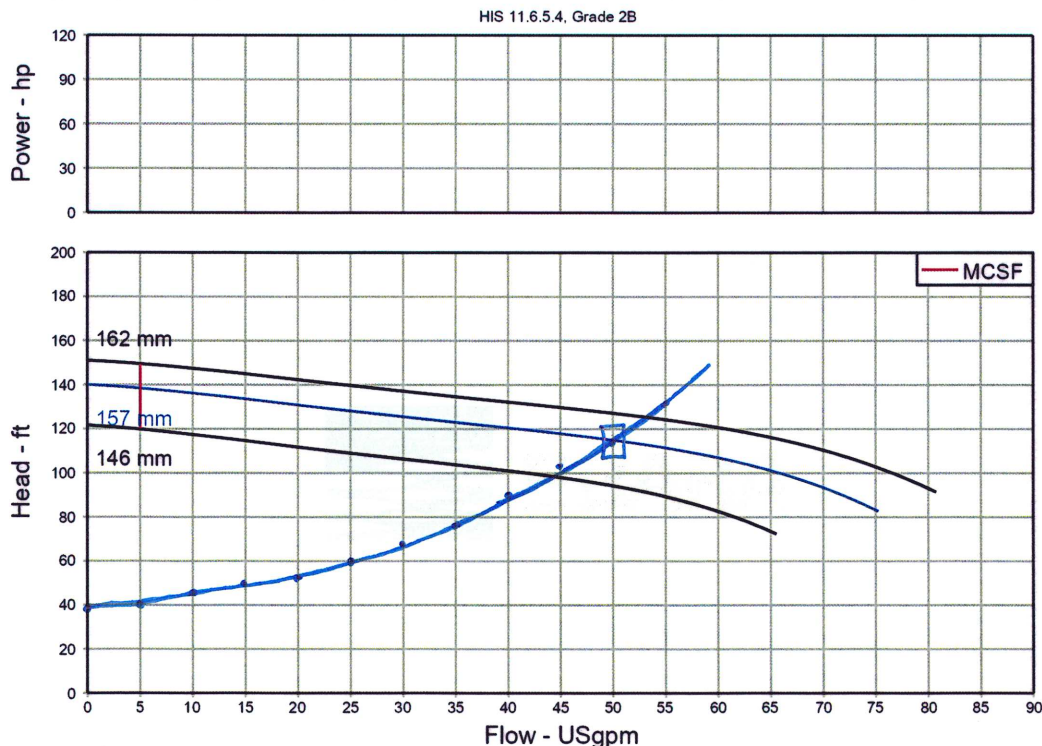
Material selected : Standard

Pressure Data

Maximum working pressure : 60.59 psi.g
Maximum allowable working pressure : N/A
Maximum allowable suction pressure : N/A
Hydrostatic test pressure : N/A

Driver & Power Data (@Max density)

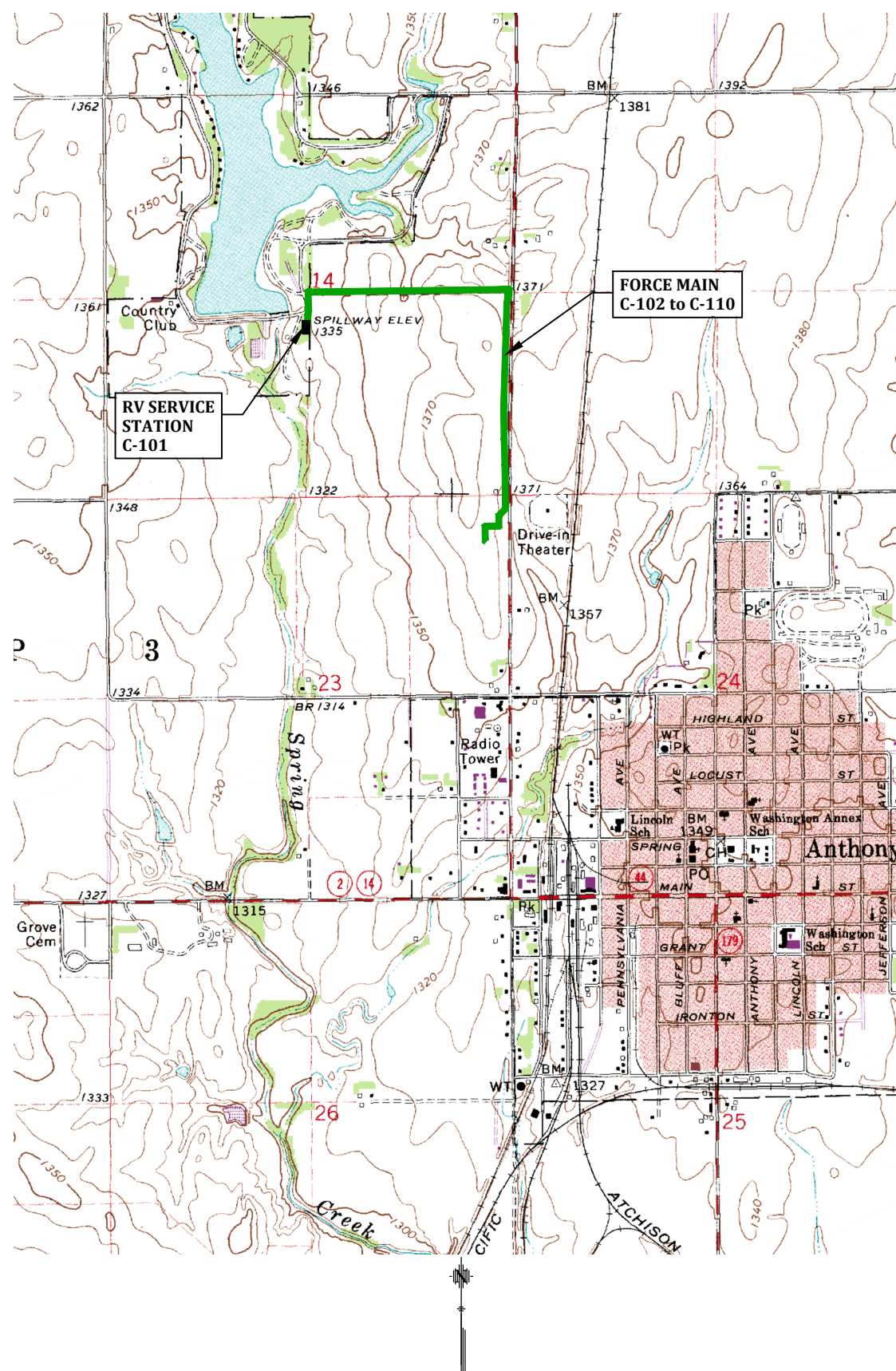
Driver sizing specification : Rated power
Margin over specification : 0.00 %
Service factor : 1.00
Power, hydraulic : 1.45 hp
Power, rated : # hp
Power, maximum, rated diameter : # hp
Motor rating : 5.00 hp / 3.73 kW (Fixed)



ANTHONY CITY LAKE RV SERVICE STATION IMPROVEMENTS 2021

ANTHONY, KANSAS

CONTRACTOR: CITY OF ANTHONY



PROJECT LOCATION

EXISTING LEGEND

- | | | | |
|---|-----------------|---|-----------------------------|
|  | BUSH |  | LIGHT POLE |
|  | CONIFEROUS TREE |  | POWER POLE |
|  | DECIDUOUS TREE |  | UNDERGROUND ELECTRIC |
|  | STUMP |  | TELEPHONE PEDESTAL |
|  | FLAGPOLE |  | UNDERGROUND TELEPHONE LINE |
|  | MAILBOX |  | FIBER OPTIC LINE |
|  | FENCE |  | GAS METER |
|  | LANDSCAPED AREA |  | GAS LINE |
| | |  | 2-WAY FIRE HYDRANT |
| | |  | 3-WAY FIRE HYDRANT |
| | |  | WATER METER |
| | |  | WATER VALVE |
| | |  | WATER LINE |
| | |  | SANITARY SEWER CLEANOUT |
| | |  | SANITARY SEWER MANHOLE |
| | |  | SANITARY SEWER LIFT STATION |
| | |  | SANITARY SEWER LINE |
| | |  | STORM SEWER MANHOLE |
| | |  | CORRUGATED METAL PIPE |
| | | | REINFORCED CONCRETE BOX |
| | | | SURVEY MARK |

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IMPROVEMENTS LEGEND

-  WATER SERVICE LINE
 SEWER FORCE MAIN
 REM/REPL GRAVEL
 OPEN CUT REM/REPL
 (SEE NOTE FOR MATERIAL)

GENERAL

- CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. POSITIVE DRAINAGE SHALL BE MAINTAINED IN AND AROUND THE SITE TO ELIMINATE STANDING WATER.
- REMOVAL AND REPLACEMENT OF SIGNS, MAILBOXES, FENCES, ORNAMENTAL OR DECORATIVE OBJECTS, LANDSCAPING, AND SIMILAR FEATURES SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM. REPLACEMENT SHALL BE IN SAME OR BETTER CONDITION THAN ORIGINAL INSTALLATION.
- ALL MATERIALS SALVAGED FROM THIS PROJECT ARE THE PROPERTY OF OWNER. AT OWNER'S OPTION, CONTRACTOR SHALL DELIVER SUCH MATERIALS TO OWNER'S DESIGNATED STORAGE YARD OR PROPERLY DISPOSE OF ANY SUCH MATERIALS OWNER DOES NOT WANT. DELIVERY AND DISPOSAL COSTS SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEMS.
- SUBSIDIARY ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT ARE TO BE INCLUDED WITH THE APPROPRIATE ITEM THEY ARE RELATED TO.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS WHICH ARE SHOWN ON PLANS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH HAVE BEEN SHOWN AND WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. NO SEPARATE MEASUREMENT OF PAYMENT WILL BE MADE FOR THIS WORK AS IT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
- VALVE BOXES ON RETIRED IN PLACE WATER LINES SHALL BE ABANDONED.
- CONTRACTOR SHALL DISPOSE OF TREES AND BRUSH IN AN APPROVED AREA. REMOVAL AND DISPOSAL OF TREES AND BRUSH AS NECESSARY FOR INSTALLATION OF NEW WATERLINE SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM AND SHALL NOT BE PAID FOR SEPARATELY, UNLESS SHOWN SPECIFICALLY OTHERWISE ON THE PLANS.
- CONNECTIONS TO EXISTING WATERLINES AND RETIRE IN PLACE MAY REQUIRE SHUTTING DOWN PART OR ALL OF THE EXISTING WATER SYSTEM. LOCATION AND OPERATION OF EXISTING SYSTEM VALVES WILL BE CITY'S RESPONSIBILITY, HOWEVER, CONTRACTOR SHALL COORDINATE THIS WORK AND PROVIDE CITY WITH ADEQUATE NOTIFICATION SO CITY CAN PLAN AND SCHEDULE SUCH OPERATIONS. CONTRACTOR SHALL VERIFY RETIRED IN PLACE WATERLINES ARE ACTUALLY "DEAD". CONTRACTOR SHALL PERFORM SHUTDOWNS AND CONNECTIONS AT NIGHT OR OTHER LOW DEMAND PERIOD IF REQUESTED BY ENGINEER OR OWNER.
- CONTRACTOR SHALL MEET ONE YEAR AFTER COMPLETION OF PROJECT TO REVIEW ANY WARRANTY ITEMS TO BE RESOLVED.
- AREAS DISTURBED BY CONSTRUCTION WHICH ARE NOT PAVED, GRAVELED, OR CULTIVATED SHALL BE SEEDED FOR GRASS IN ACCORDANCE WITH THE SPECIFICATIONS.

EXCAVATION

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE ENCOUNTERED OR GENERATED ON THIS PROJECT. DISPOSAL COSTS SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM. THE ENTIRE AREA SHALL BE LEFT IN A CLEAN AND SIGHTLY CONDITION.
- ALL EXCAVATION IS UNCLASSIFIED. CONTRACTOR SHALL DETERMINE THE EXTENT OF ROCK EXCAVATION REQUIRED. ROCK EXCAVATION WILL BE SUBSIDIARY TO RELATED WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK EXCAVATION. ALL EXCAVATION SHALL BE DONE WITH MECHANICAL EQUIPMENT, i.e. TRENCHER, BACKHOE, ROCKSAW.
- DEWATERING SHALL BE CONSIDERED SUBSIDIARY TO RELATED WORK. CONTRACTOR TO INSPECT SITE AND MAKE OR OBTAIN SUCH EXPLORATIONS TO SATISFY HIMSELF AS TO THE ELEVATION OF THE WATER TABLE AND AMOUNT OF DEWATERING REQUIRED. DEWATERING AND ALL RELATED COSTS ARE SUBSIDIARY TO THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING ON PROJECT.
- WHERE NOTED ON THE DRAWINGS, CONTRACTOR SHALL TUNNEL UNDER SIDEWALKS, STEPS, GRADE BEAMS, AND SIMILAR STRUCTURES. SUCH CROSSINGS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE PIPE BID ITEM.

TRAFFIC CONTROL

- CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AT ALL TIME DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS, AND SHALL PROVIDE SUCH PROTECTIVE MEASURES AS ARE REQUIRED TO ENSURE THE SAFETY OF THE GENERAL PUBLIC, EMPLOYEES, AND EQUIPMENT. ALLEYS, DRIVEWAYS, AND OTHER PUBLIC ACCESSES SHALL BE OPEN TO TRAFFIC AT THE END OF EACH DAY'S WORK UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER OR ENGINEER.

STORM WATER POLLUTION CONTROL

- CONTRACTOR WILL PROVIDE PHONE NUMBER OF EMPLOYEE WHO WILL BE AVAILABLE TO MAKE NECESSARY REPAIRS TO THE POLLUTION CONTROL MEASURES IN THE EVENT OF A STORM WHICH DAMAGES SAID MEASURES.
- CONTRACTOR TO HAVE WATER TRUCKS AND EQUIPMENT AVAILABLE DURING ALL CONSTRUCTION FOR USE IN SUPPRESSION OF BLOWING DIRT AND DEBRIS. OWNER CAN REQUEST WATERING OR OTHER SUPPRESSION MEASURES BE UNDERTAKEN AS CONDITIONS REQUIRE.
- MAINTENANCE OF POLLUTION CONTROL STRUCTURES IN AND AROUND THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR AND CANNOT BE TURNED OVER TO ANY OTHER CONTRACTOR WITHOUT WRITTEN APPROVAL OF THE OWNER / ENGINEER.
- CONTRACTOR SHALL SCHEDULE A FINAL MEETING WITH THE ENGINEER AT COMPLETION OF THE PROJECT TO REVIEW THE POLLUTION CONTROL STRUCTURES. ENGINEER WILL INSPECT ALL MEASURES FOR FINAL APPROVAL.
- OWNER IS RESPONSIBLE FOR REMOVING SILT FENCE AFTER GRASS HAS GROWN IN AND EROSION CONTROL IS NO LONGER REQUIRED AS DETERMINED BY ENGINEER.

ORDER OF WORK

- CONTRACTOR TO FOLLOW ORDER OF WORK AS SHOWN ON THE DRAWINGS UNLESS RELIEVED OF THOSE REQUIREMENTS IN WRITING BY THE ENGINEER.

A. CONTRACTOR SHALL PLAN, SCHEDULE, AND COORDINATE OPERATIONS AFFECTING WATER SERVICES IN A MANNER ACCEPTABLE TO THE ENGINEER AND TO THE CITY, AND SO AS TO MINIMIZE BOTH THE DURATION AND INCONVENIENCE OF SERVICE INTERRUPTIONS. CONTRACTOR SHALL GIVE AMPLE PRIOR NOTICE TO WATER CUSTOMERS REGARDING SERVICE INTERRUPTIONS.

B. CONTRACTOR SHALL MAINTAIN SERVICE TO ALL CUSTOMERS DURING CONSTRUCTION EXCEPT AS REQUIRED TO MAKE CONNECTIONS. SERVICES SHALL REMAIN IN SERVICE UNTIL THE NEW SYSTEM HAS BEEN INSTALLED, TESTED, DISINFECTED, AND APPROVED FOR USE. THEREUPON, CUSTOMERS SHALL BE CHANGED OVER TO THE NEW SYSTEM. FINALLY, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, CUSTOMER AND ENGINEER PRIOR TO DISTURBING SERVICE. THE CITY SHALL BE RESPONSIBLE FOR TURNING WATER BACK ON TO SERVICE AFTER A DISRUPTION HAS TAKEN PLACE. AFTER ALL CUSTOMERS HAVE BEEN CHANGED OVER TO THE NEW WATER LINE THE EXISTING LINE SHALL BE ABANDONED.

C. CONTRACTOR SHALL FLUSH, DISINFECT & TEST LINES AFTER CONSTRUCTION. TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. TWO BACTERIA SAMPLES TAKEN A MINIMUM OF 16 HOURS APART ARE REQUIRED FOR EACH SECTION OF REPAIRED OR INSTALLED MAIN. IF LINE DOES NOT PASS, CONTRACTOR SHALL RE-DISINFECT, FLUSH AND RE-TEST AT NO ADDITIONAL COST TO OWNER UNTIL SATISFACTORY RESULTS ARE ACHIEVED. SEE DISINFECTION PART OF WATER DISTRIBUTION SYSTEM SPECIFICATION FOR DISINFECTION REQUIREMENTS.

D. PRESSURE AND LEAKAGE TESTING WILL BE PERFORMED FOR NEWLY INSTALLED OR REPAIRED MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL PERFORM WORK IN TWO CONSECUTIVE BLOCKS AT A TIME. CONTRACTOR MAY CONTINUE TO NEXT BLOCK WHEN WORK HAS BEEN COMPLETED IN THE FIRST BLOCK. CONTRACTOR SHALL NOT CLOSE TWO CONSECUTIVE SIDE STREETS CROSSINGS AT A TIME.

UTILITIES

- CONTRACTOR SHALL VERIFY AND COMPLY WITH UTILITY CROSSING REQUIREMENTS FROM THE FOLLOWING, BUT NOT LIMITED TO HIGH PRESSURE GAS LINES, PETROLEUM PIPELINES, FIBER OPTIC CABLES, AND BURIED POWER LINES.
- CONTRACTORS SHALL LOCATE ALL EXISTING UTILITIES, INCLUDING SERVICE CONNECTIONS AND DROPS, PRIOR TO CONSTRUCTION BY CONTACTING THE RESPECTIVE UTILITY COMPANY AND PROSPECTING. UTILITY LOCATIONS SHOWN ON THE DRAWING ARE NOT GUARANTEED AS TO COMPLETENESS NOR AS TO ACCURACY FOR POSITION, DEPTH, SIZE, OR TYPE OF MATERIAL. CONTRACTOR SHALL CALL KANSAS ONE CALL SYSTEM (DIG SAFE) 1-800-344-7233 OR 811; WWW.KANSASONECALL.COM.

SANITARY SEWER PIPE AND FITTINGS

PIPE & FITTINGS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE INDICATED IN DRAWING:

- HDPE PIPE

 - AWWA C906: IPS MEETING PE4710
 - DR11 PC200
 - THERMAL BUTT FUSION OR ELECTROFUSION JOINTS
 - COIL LENGTH: 300' OR 500'
- PVC PIPE

 - ASTM D1785, SCH. 40 40/80 PVC, SOLVENT WELD
 - ASTM D2466: SCH. 40 40/80 PVC FITTINGS.
 - ASTM F656: PRIMERS FOR SOLVENT CEMENT JOINTS.

SANITARY SEWER IMPROVEMENTS GENERAL NOTES

CONCRETE

PROPORTIONING OF CONCRETE SHALL BE AS FOLLOWS:

- SIDEWALKS-- ENCASEMENT AND MISC.

A. AIR-ENTRAINED, MINIMUM 28 DAY STRENGTH OF 3,000 PSI.

B. CEMENT CONTENT -- 6.5 SACKS (94 LBS PER SACK) PER CUBIC YARD OF CONCRETE.

C. MIXED AGGREGATE -- 20 PERCENT CRUSHED ROCK, MINIMUM.

D. MAXIMUM SIZE AGGREGATE SHALL NOT EXCEED 1/4 OF SLAB THICKNESS.
- CURB & GUTTER, STREETS, DRIVEWAYS, FOUNDATION, AND SLABS.

A. AIR-ENTRAINED, MINIMUM 28 DAY STRENGTH OF 4,000 PSI.

B. CEMENT CONTENT -- 7.5 SACKS (94 LBS PER SACK) PER CUBIC YARD OF CONCRETE.

C. MIXED AGGREGATE -- 20 PERCENT CRUSHED ROCK, MINIMUM.

D. MAXIMUM SIZE AGGREGATE SHALL NOT EXCEED 1/4 OF SLAB THICKNESS.
- THRUST BLOCKING

MINIMUM 28 DAY STRENGTH OF 2,000 PSI.

PIPE AND MANHOLE INSTALLATION

- PIPE AND FITTINGS: LAY TO AND MAINTAIN AT PRESCRIBED LINES AND GRADES. WHEREVER PRACTICABLE, BEGIN PIPE LAYING AT THE LOWEST POINT AND PROCEED UPHILL, AND INSTALL BELLS AT THE UPHILL ENDS OF PIPE SECTIONS.

A. THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER, OR APPURTENANCE THERETO, WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER OR POLLUTED WATER INTO THE POTABLE WATER SUPPLY.

B. MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN PARALLEL SEWER AND WATER LINES, INCLUDING SERVICE CONNECTIONS. THE DISTANCE SHALL BE MEASURED FROM EDGE TO EDGE. THE LAYING OF WATER PIPES AND SANITARY SEWERS SHALL BE IN SEPARATE TRENCHES WITH UNDISTURBED EARTH BETWEEN THEM.

C. WHERE A SEWER LINE CROSSES OVER A WATER LINE, OR IS LESS THAN TWO FEET (CLEAR) UNDER THE WATER LINE, EITHER ENCASE THE SEWER LINE IN CONCRETE A MINIMUM OF 6" THICKNESS ON ALL SIDES FOR A 10 FT. DISTANCE ON EACH SIDE OF THE CROSSING OR REPLACE THE CROSSED SECTION OF SEWER LINE BY CENTERING A 20 FT. LONG SECTION OF PVC PIPE AS SPECIFIED. JOINTS IN THE SEWER PIPE SHALL BE LOCATED AS FAR AS PRACTICAL FROM THE INTERSECTED WATER LINE. SOLVENT WELDED JOINTS SHALL NOT BE USED.

D. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.
- MANHOLES, CLEANOUTS, AND ACCESSORIES: INSTALL AT REQUIRED LOCATIONS; SET VERTICAL COMPONENTS PLUMB; MAINTAIN RINGS AND COVERS LEVEL AND AT REQUIRED GRADES.
- CLEAN INTERIORS OF PIPE AND FITTINGS OF DIRT AND FOREIGN MATTER PRIOR TO LOWERING INTO THE TRENCH, AND MAINTAIN SUCH CONDITION THROUGHOUT INSTALLATION. WHEN PIPE LAYING IS NOT IN PROGRESS, KEEP OPEN ENDS OF INSTALLED PIPE AND SYSTEM COMPONENTS SUITABLY CLOSED TO PREVENT THE ENTRANCE OF WATER, DIRT, AND OTHER FOREIGN MATTER.
- USE PROPER EQUIPMENT AND METHODS TO LOWER AND PLACE PIPE AND SYSTEM COMPONENTS IN THE TRENCH TO PREVENT DAMAGE: DO NOT DROP OR DUMP PIPE OR COMPONENTS INTO THE TRENCH.
- JOIN PIPE AND SYSTEM COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CLEAN GASKETS AND JOINT SURFACES THOROUGHLY, AND INSPECT FOR DAMAGE OR DEFORMATION. LUBRICATE JOINT SURFACES PER MANUFACTURER'S INSTRUCTIONS. ASSEMBLE JOINTS BY HAND OR BY BAR AND BLOCK METHODS; USE MECHANICAL EQUIPMENT ONLY AT THE DIRECTION OF THE MANUFACTURER. DO NOT SWING OR STAB THE JOINT.
- WHEN ABANDONING AN ACTIVE MANHOLE OR TAKING SYSTEM OUT OF SERVICE, CONTRACTOR IS RESPONSIBLE FOR PUMPING AROUND UNTIL NEW COMPONENTS ARE IN SERVICE.
- MANHOLES IN GRAVEL STREETS SHALL BE 6" BELOW SURFACE.

MANHOLE TESTING

VACUUM TEST: LIFT HOLES SHALL BE PLUGGED WITH NON-SHRINK GROUT, AND PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. THE TEST HEAD SHALL BE POSITIONED AT THE TOP OF THE CONE SECTION, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME FOR THE VACUUM TO DROP TO 9 INCHES SHALL BE MEASURED. THE MANHOLE SHALL PASS IF THE TIME IS GREATER THAN 60 SECONDS FOR 48" DIAMETER MANHOLES, 75 SECONDS FOR 60" DIAMETER MANHOLES, OR 90 SECONDS FOR 72" DIAMETER MANHOLES.

IF A MANHOLE FAILS THE TEST, REPAIRS SHALL BE MADE WITH NON-SHRINK GROUT WHILE THE VACUUM IS STILL BEING DRAWN.

SEWER ALIGNMENT AND TESTING

GENERAL: CONDUCT TESTING IN THE PRESENCE OF ENGINEER. IF A REACH OF SEWER LINE FAILS A TEST, LOCATE AND REPAIR THE DEFECT, AND RETEST UNTIL SPECIFIED PERFORMANCE IS DEMONSTRATED. CONDUCT THE FOLLOWING 3 TESTS ON EACH REACH OF SEWER LINE INSTALLED. ONLY THE LOW PRESSURE AIR TEST CAN BE OMITTED ALONG SEWER LATERALS WITH EXISTING SERVICE CONNECTIONS AND ONLY IF NECESSARY TO MAINTAIN SANITARY SEWER SERVICE.

- ALIGNMENT: THE FULL DIAMETER OF THE PIPE SHALL BE VISIBLE WHEN VIEWED BETWEEN CONSECUTIVE MANHOLES. TESTING SHALL BE ACCOMPLISHED UTILIZING LIGHTS AND MIRRORS, AND CONTRACTOR SHALL ASSIST ENGINEER AS NECESSARY.
- LOW PRESSURE AIR TESTING: TESTING METHODS AND AIR LEAKAGE RATES SHALL CONFORM TO ASTM F1417, WHICH ALLOWS A DROP OF ONE PSI DURING THE TIME CALCULATED. ISOLATE THE REACH TO BE TESTED. INSTALL, RESTRAIN, AND BRACE ALL PLUGS AND CAPS SECURELY TO PREVENT BLOWOUT. NO ONE SHALL BE ALLOWED IN THE MANHOLES DURING TESTING. TO PREVENT OVERPRESSURIZATION, A REGULATOR OR RELIEF VALVE SET NO HIGHER THAN 9 PSI SHALL BE INCLUDED ON PRESSURIZING EQUIPMENT. ADD AIR SLOWLY TO THE TEST SECTION UNTIL PRESSURE REACHES 4 PSI. MAINTAIN PRESSURE BETWEEN 3.5 AND 4.0 PSI UNTIL EQUILIBRIUM IS OBTAINED. BEGIN TEST WITH MINIMUM OF 3.5 PSI. IF A ONE PSI PRESSURE DROP IS OBSERVED WITHIN THE TIME LISTED IN THE FOLLOWING TABLE, THE REACH HAS FAILED THE TEST:

NOMINAL PIPE SIZE, IN	LENGTH OF TEST REACH, FT	MINIMUM TIME FOR 1 PSI LOSS, SEC (MIN:SEC)
8"	<298 ≥ 298	454 (7:34) 1,520 L
10"	<239 ≥ 239	566 (9:26) 2,374 L
12"	<199 ≥ 199	680 (11:20) 3,418 L
15"	<159 ≥ 159	850 (14:10) 5,342 L
- DEFLECTION: TESTING SHALL BE PERFORMED AFTER BACKFILLING, AND SHALL BE CONDUCTED WITH SUITABLE EQUIPMENT CAPABLE OF ACCURATELY MEASURING ANY DEFLECTION IN THE PIPE'S CROSS-SECTION. DEFLECTION SHALL NOT EXCEED 5% OF THE PIPE'S ACTUAL INTERNAL DIAMETER. REQUIRED FOR 8" AND LARGER PIPE ONLY.



ANTHONY CITY LAKE
RV SERVICE STATION
IMPROVEMENTS 2021
ANTHONY, KANSAS

Date	Description				
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GENERAL REQUIREMENT
NOTES
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G-001

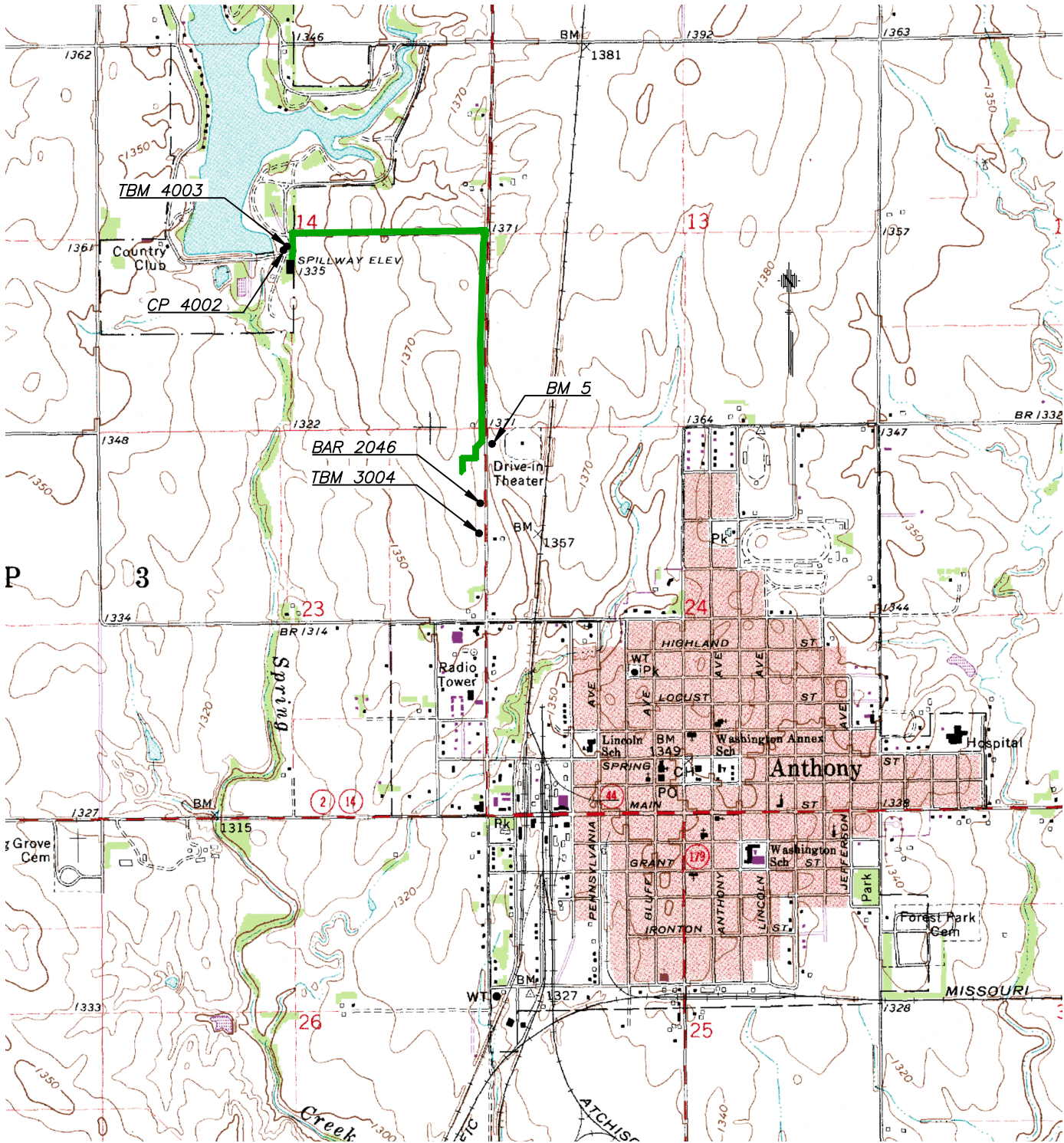


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ANTHONY, KANSAS

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SURVEY CONTROL
PLAN AND DATA

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V-001

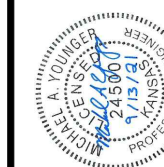
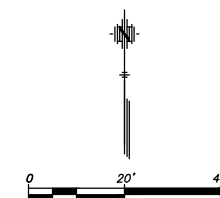
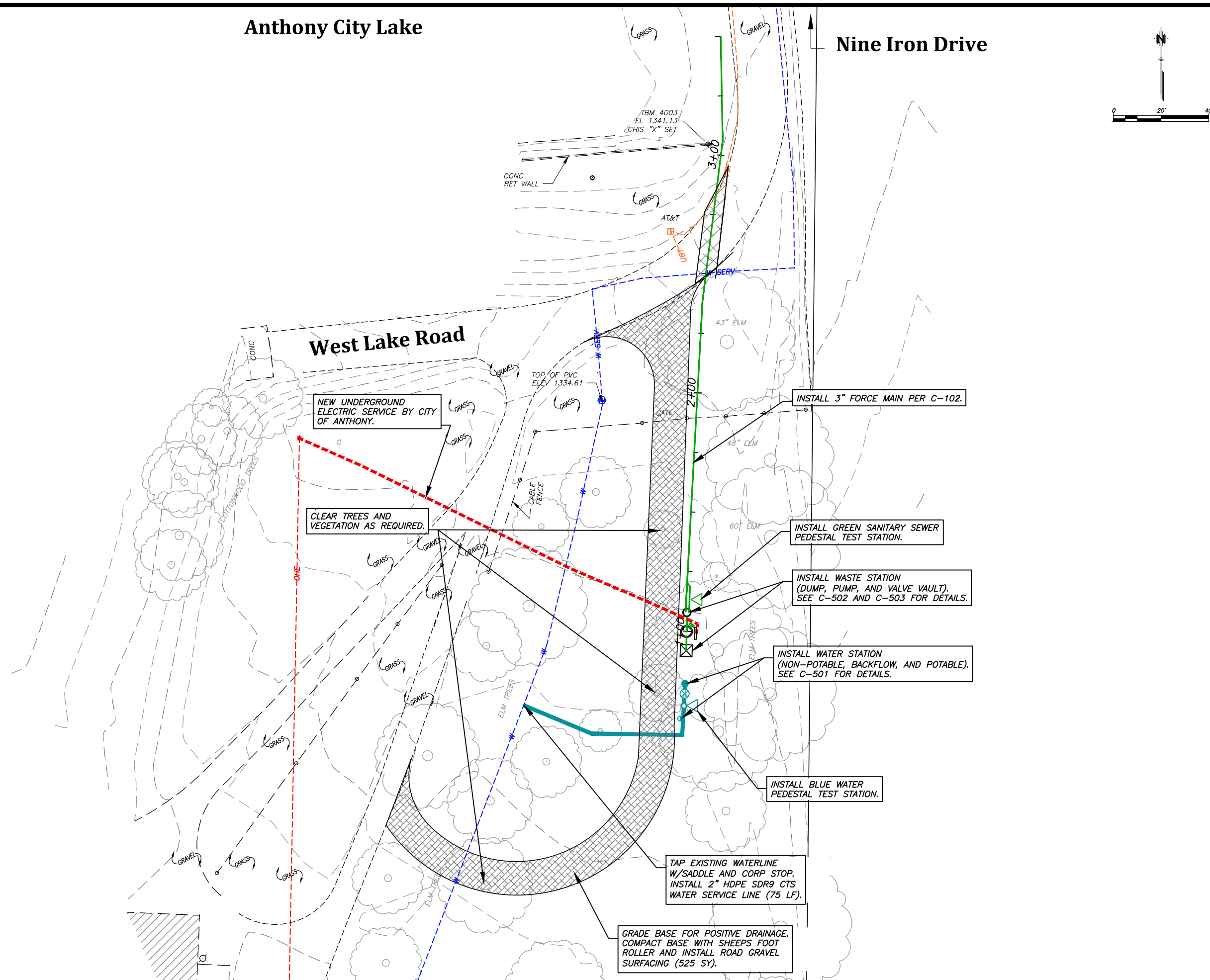


SURVEY CONTROL PLAN

DATE OF FIELD WORK: JUNE 2021
PROJECT UNITS: LOCAL US FT
VERTICAL DATUM: NAVD88

SURVEY CONTROL				
Point #	Northing	Easting	Elevation	Description
5	1494513	1446648	1364.99	BM 5 BM J-355 NGS MONUMENT STAINLESS STEEL ROD AT ENTRANCE OF OLD DRIVE-IN; EAST SIDE OF K-2 HWY
2046	1493716.98	1446495.57	1371.46	BAR 2046 BAR WITH "POE" CAP WEST R/W K-2 HWY; NEc ANTHONY CHRISTIAN CHURCH
3004	1493300	1446488	1371.48	TBM 3004 CHISELED CROWS FOOT; EAST RING OF SSMH EAST SIDE OF ANTHONY CHRISTIAN CHURCH
4002	1497124.71	1443826.00	1341.74	CP 4002 1/2" BAR WITH CAP EAST END OF LAKE DAM; ±10' SOUTH OF RET WALL
4003	1497139	1443874	1341.13	TBM 4003 CHISELED "+" AT EXTENSION EAST END OF RET WALL; EAST END OF DAM

Nine Iron Drive



**ANTHONY CITY LAKE
RV SERVICE STATION
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RV SERVICE STATION
SITE PLAN

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RV SERVICE STATION
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ANTHONY, KANSAS

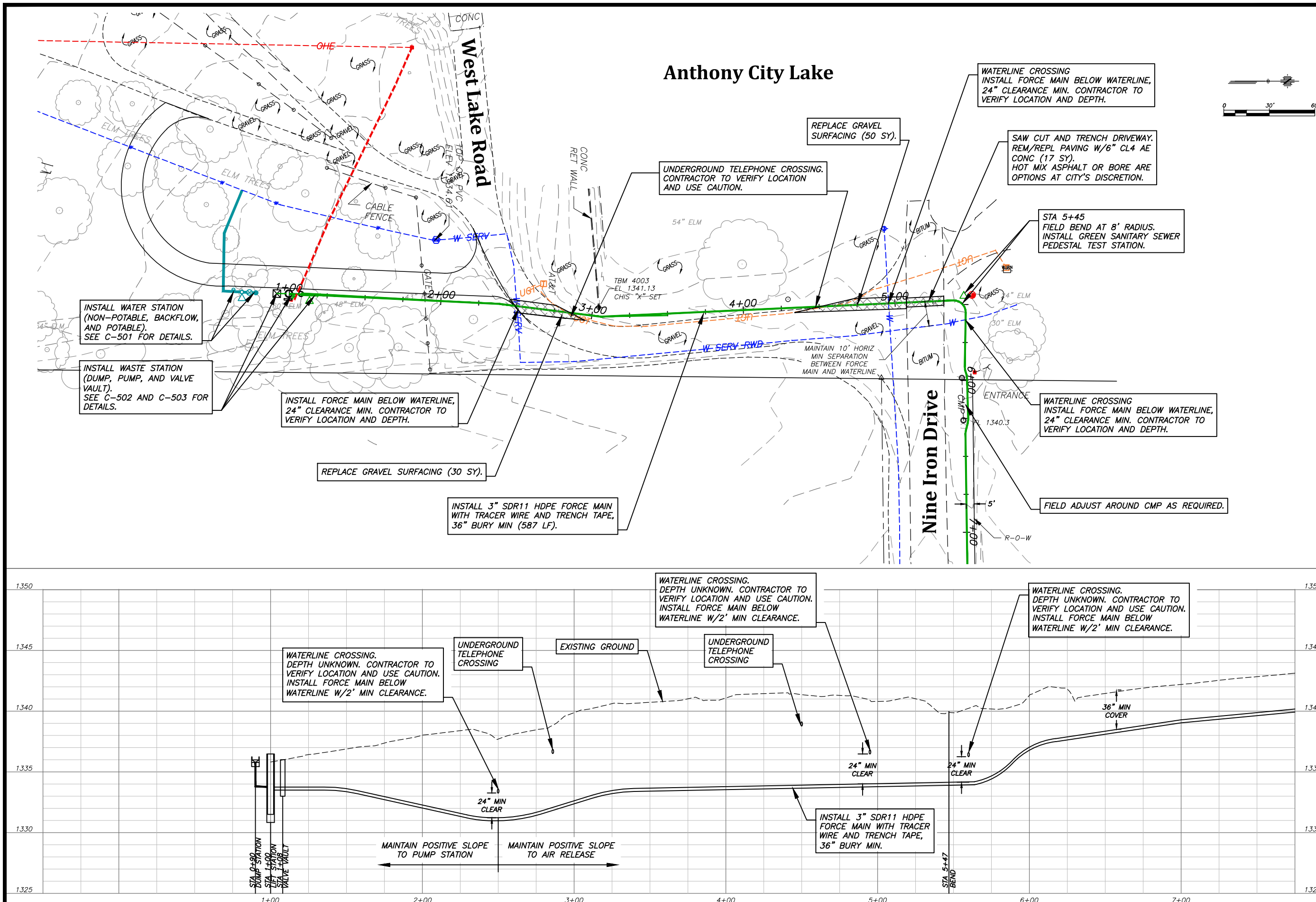
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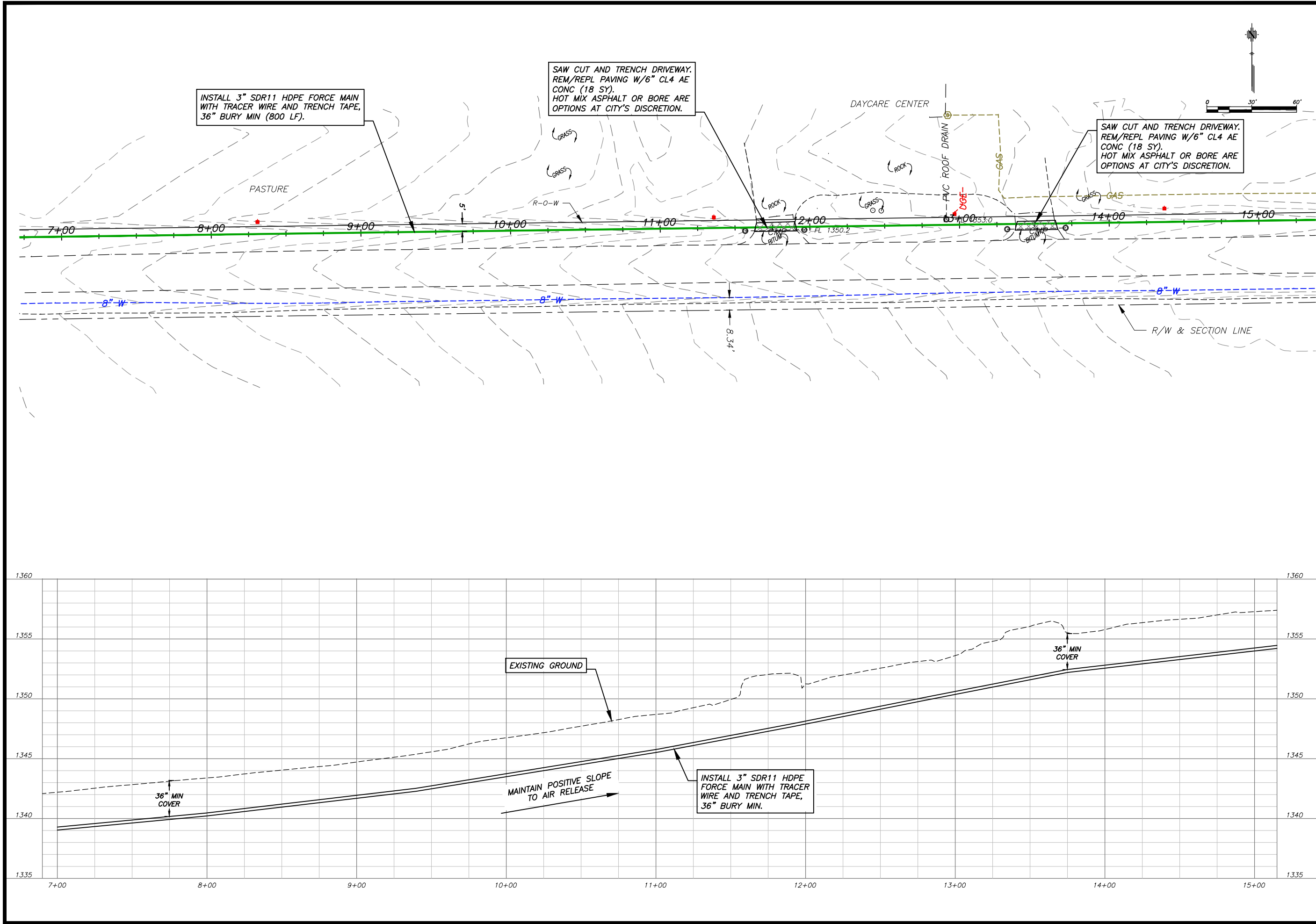
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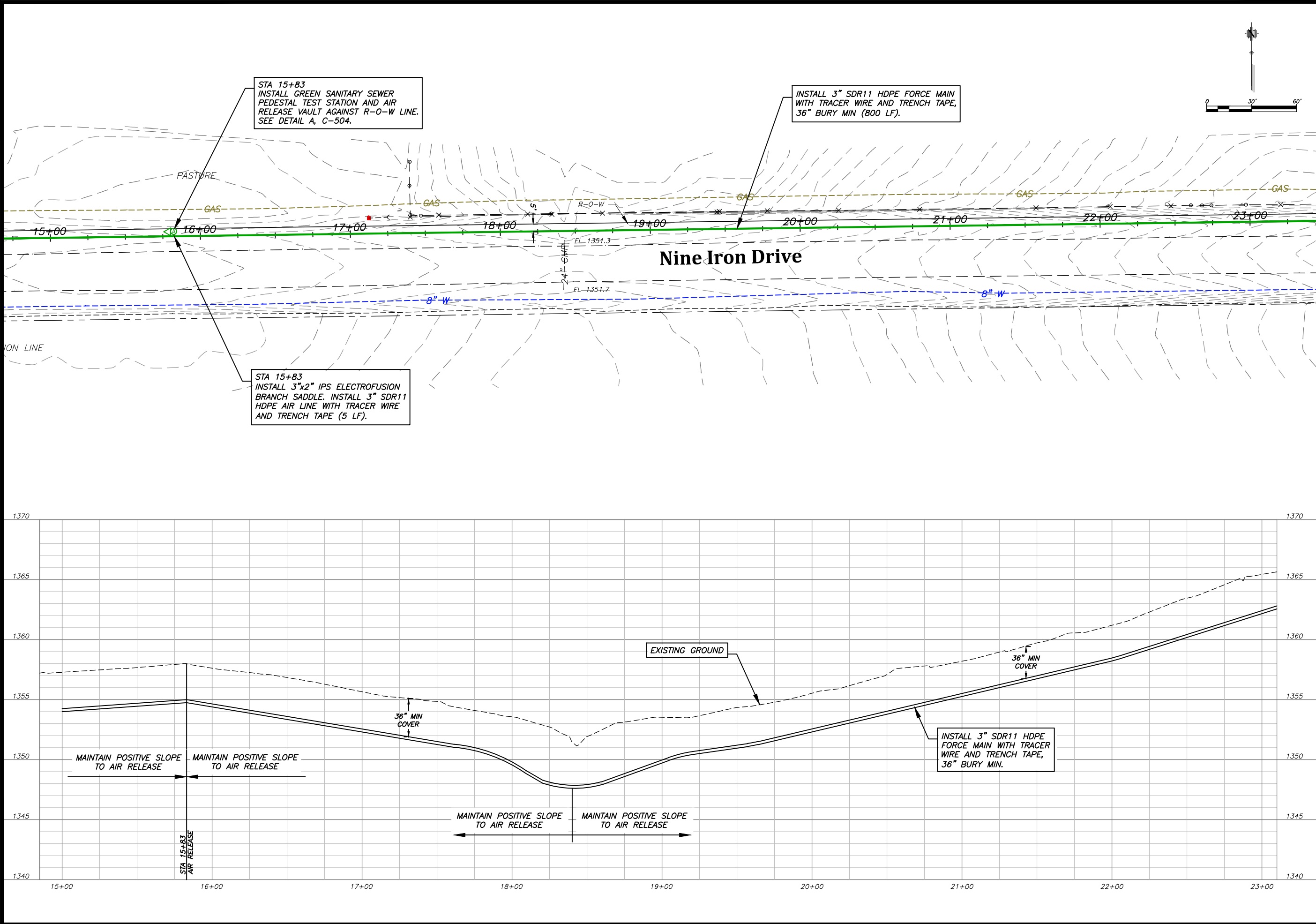


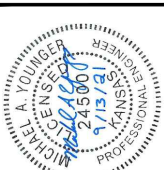
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IMPROVEMENTS 2021
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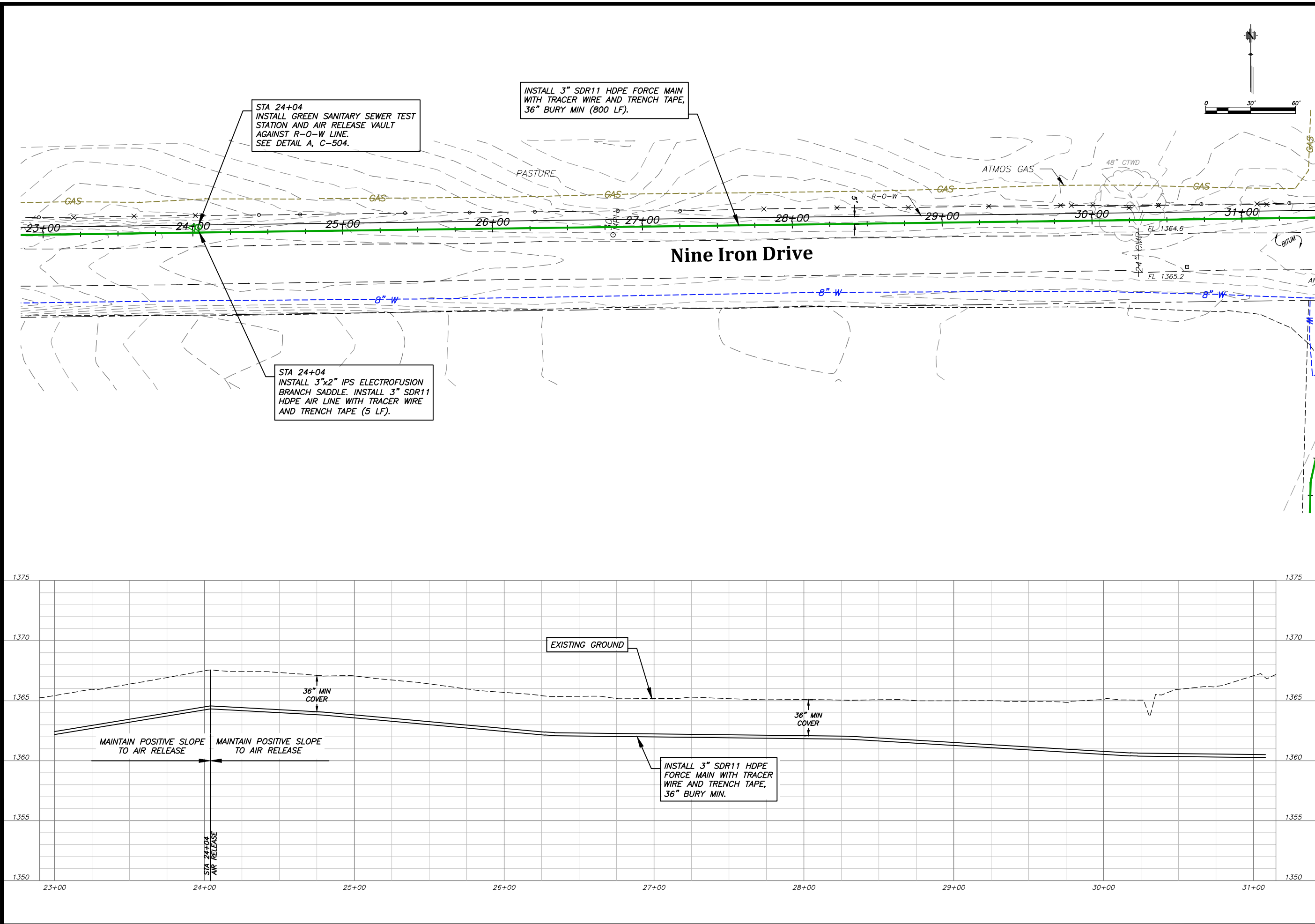


ANTHONY CITY LAKE
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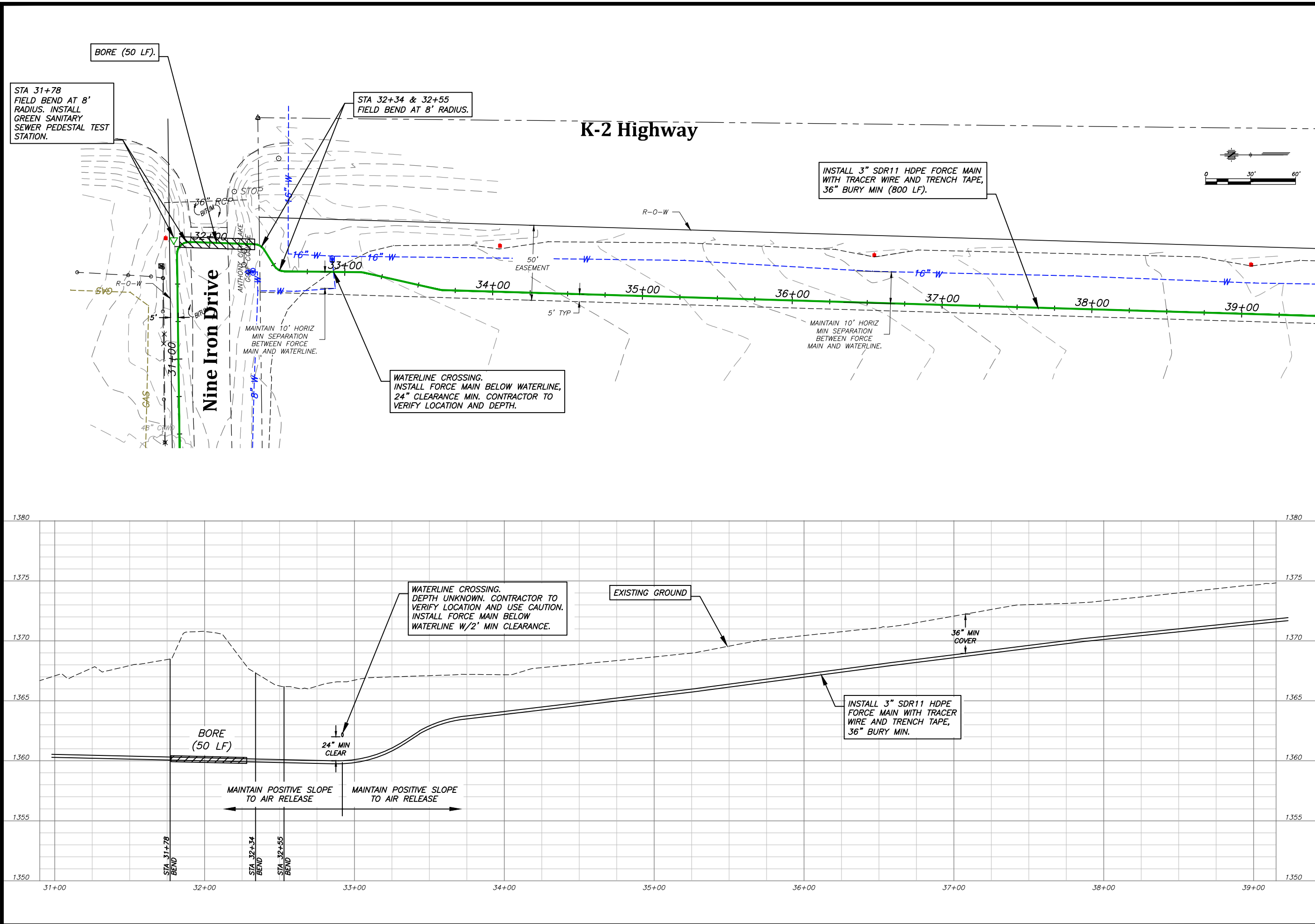


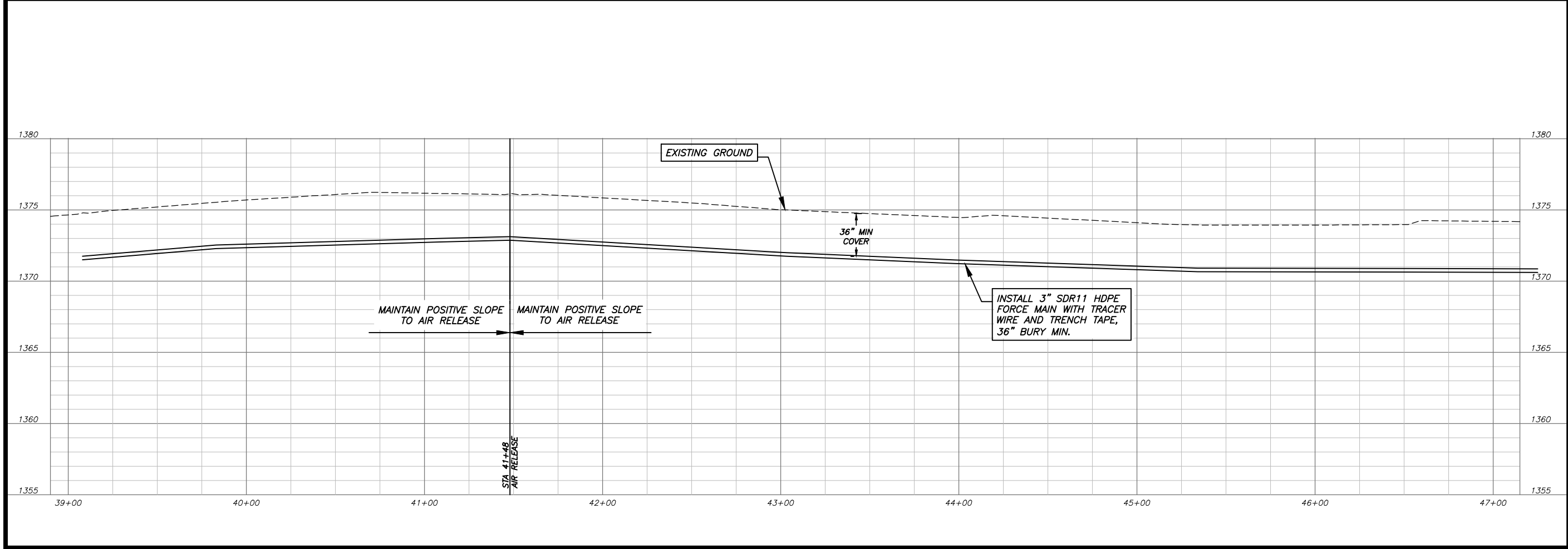
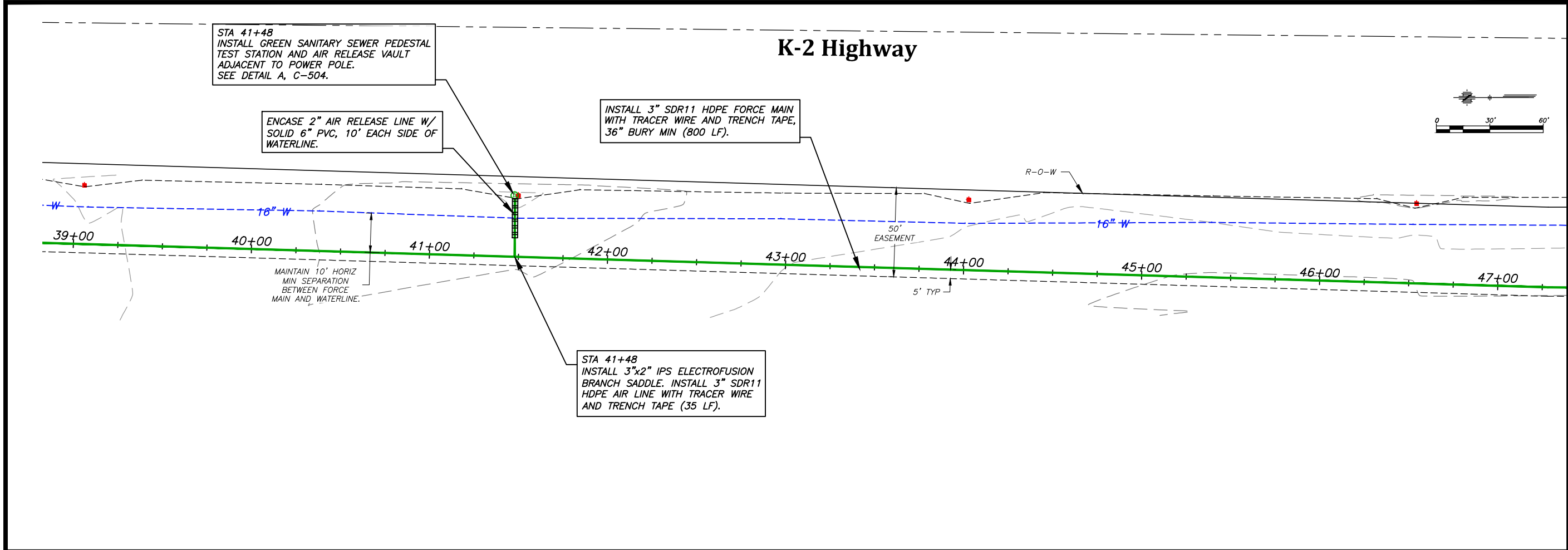
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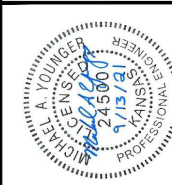
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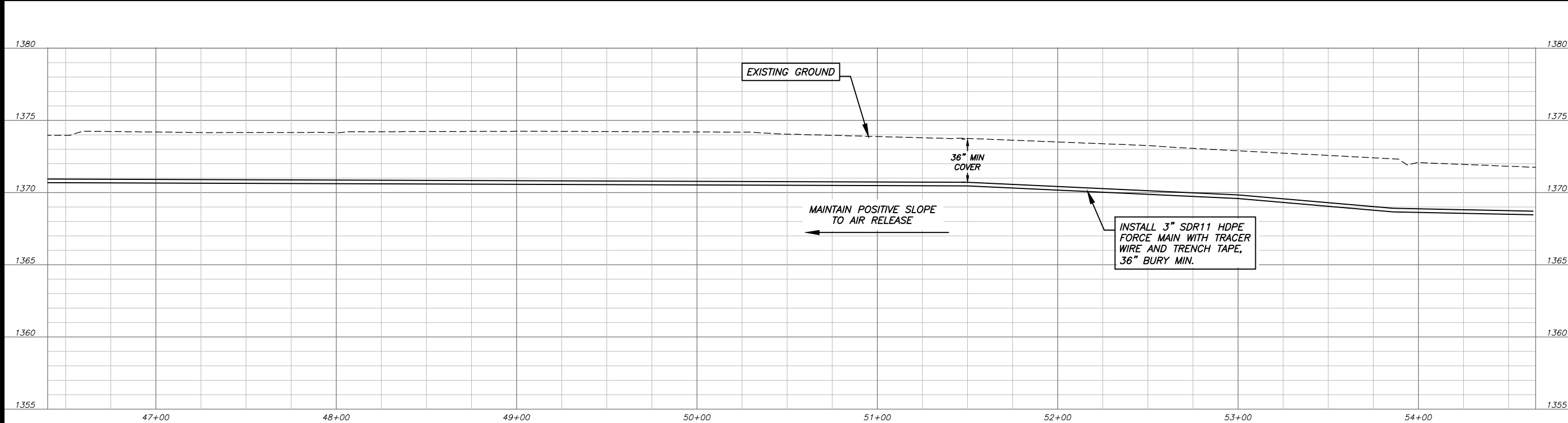
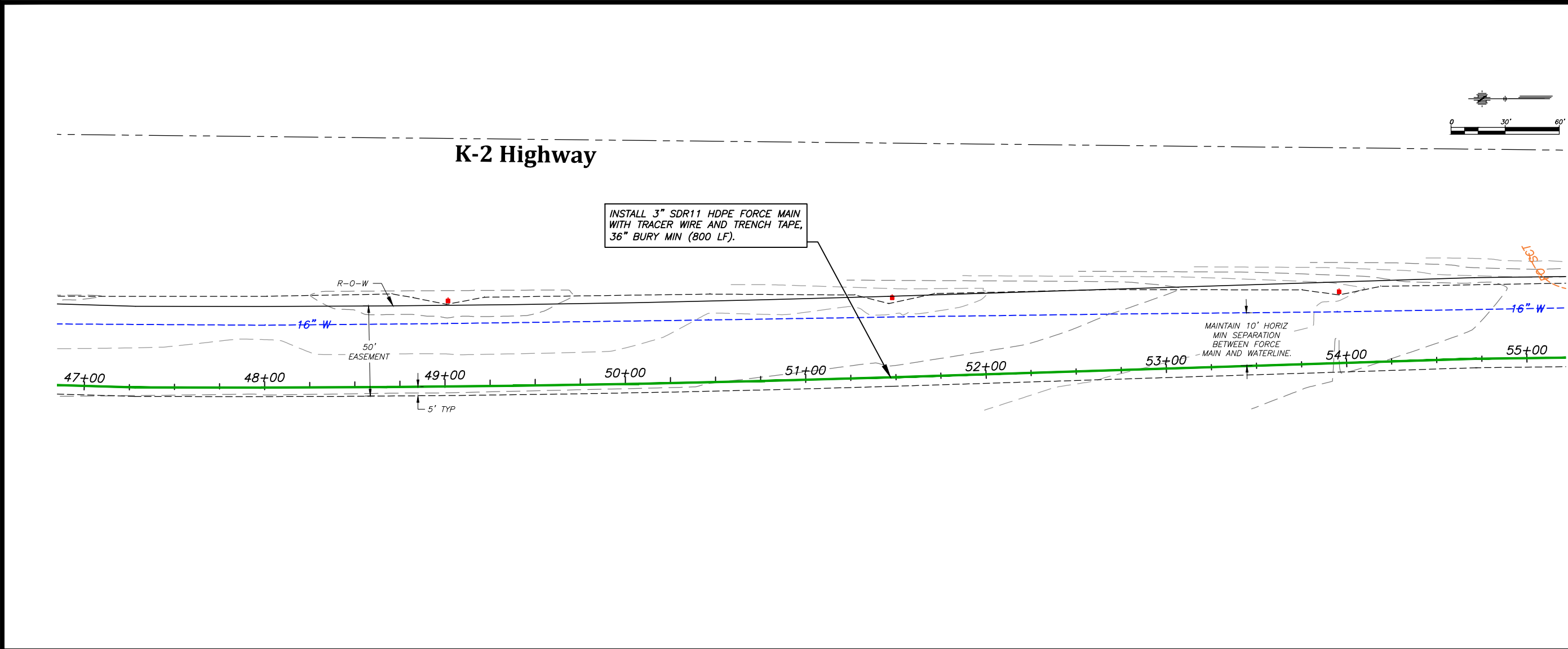


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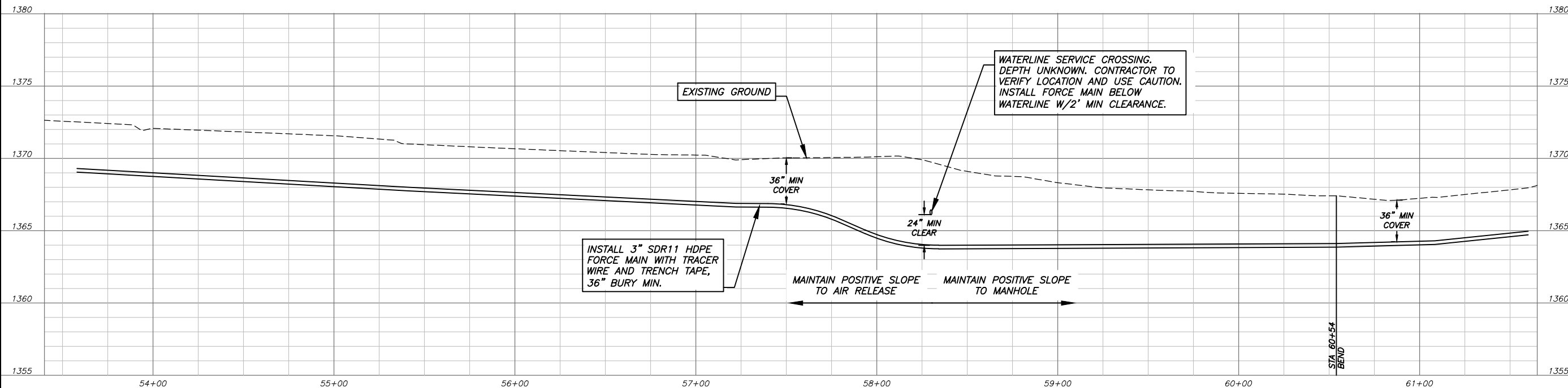
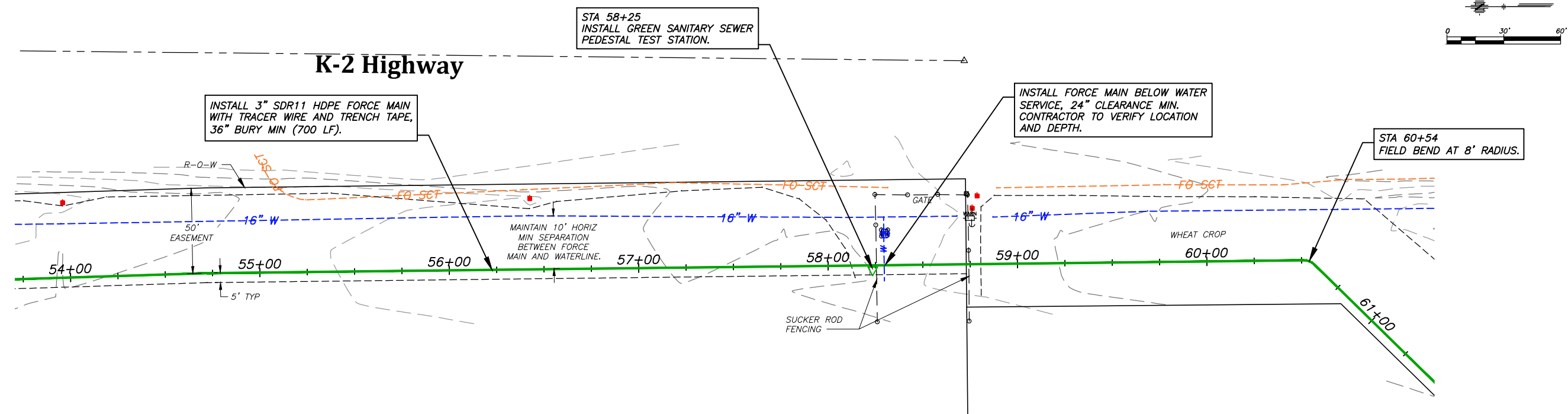


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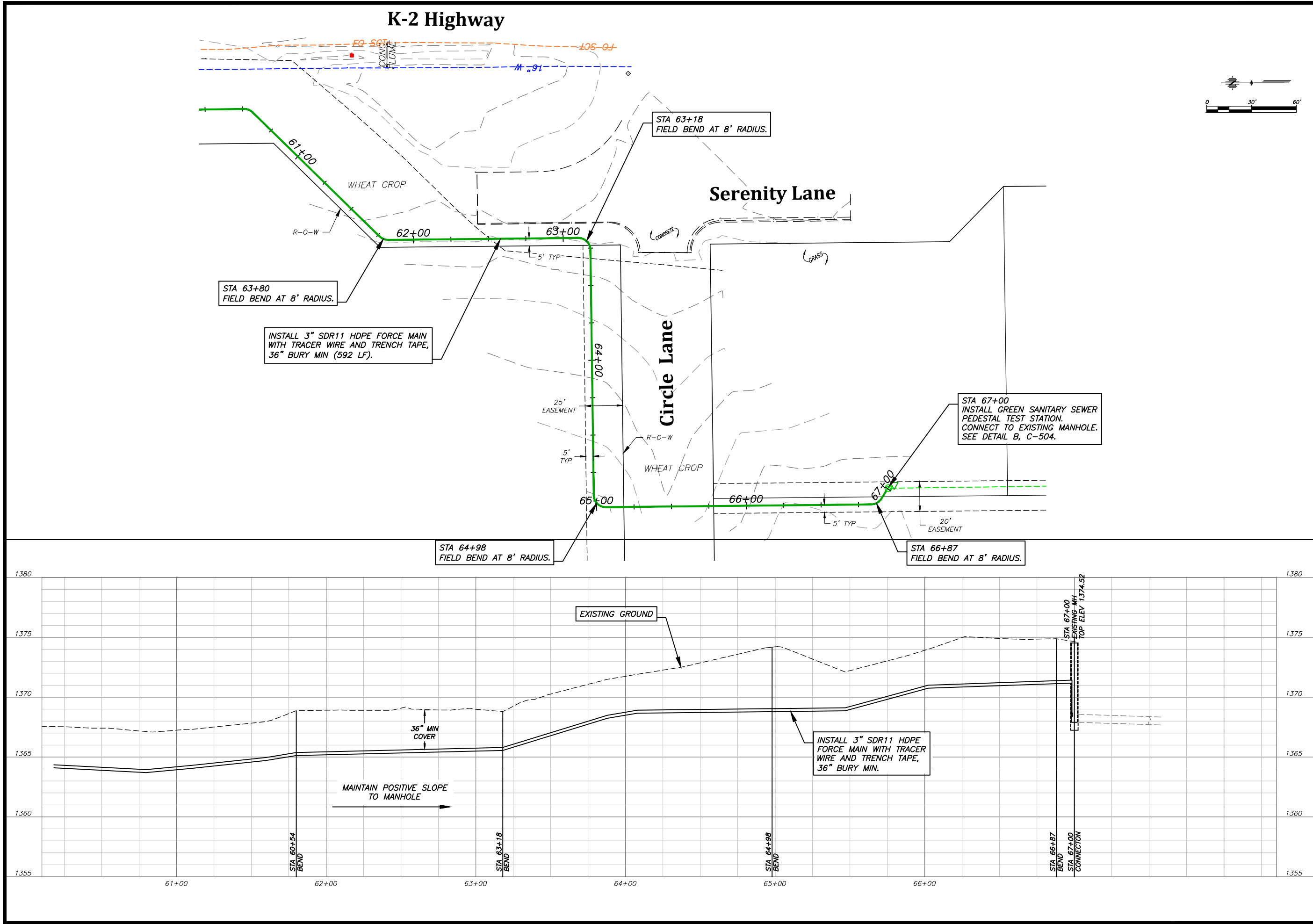


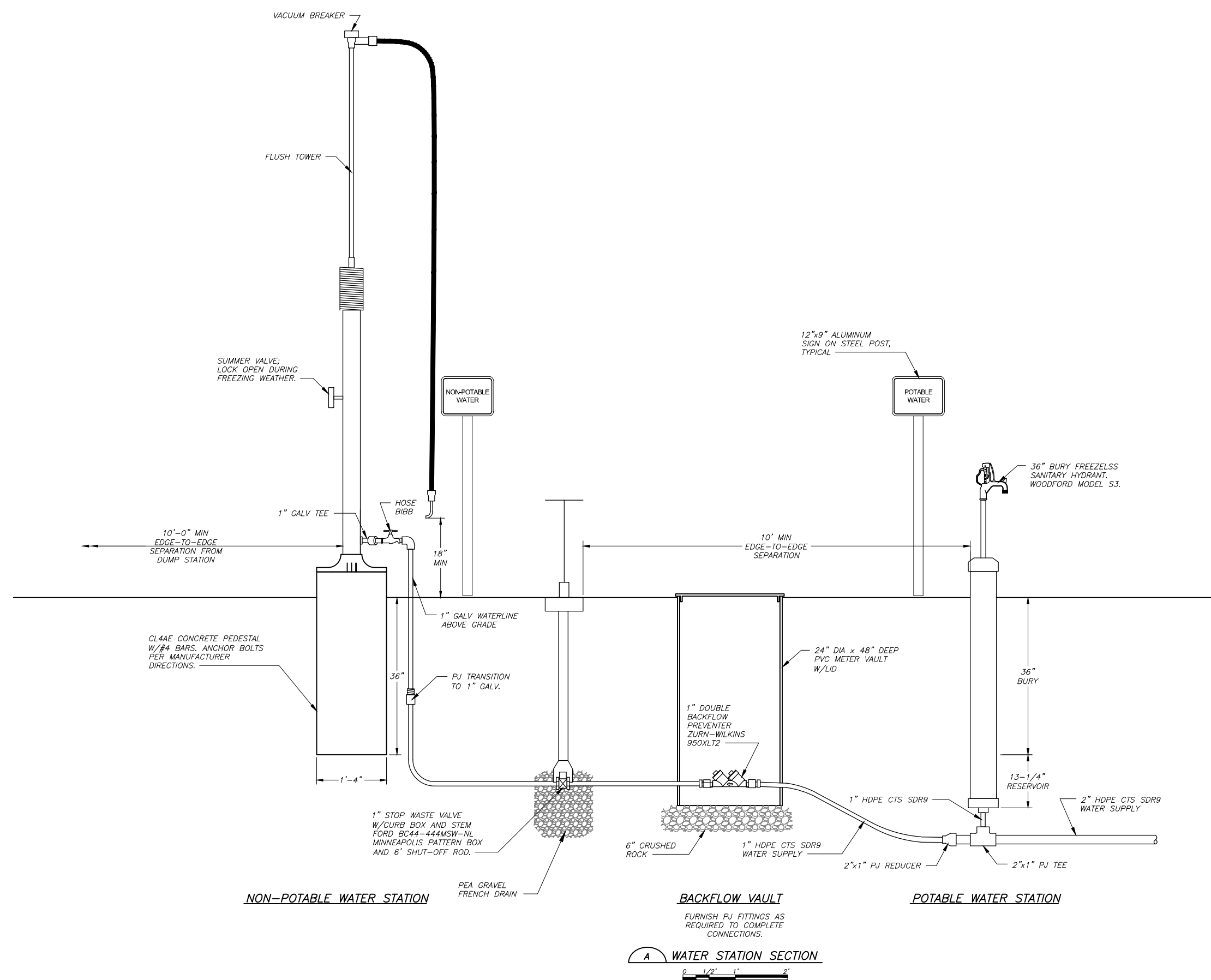
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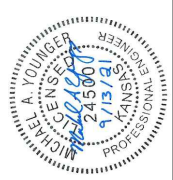




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WATER STATION
SECTION DETAILS
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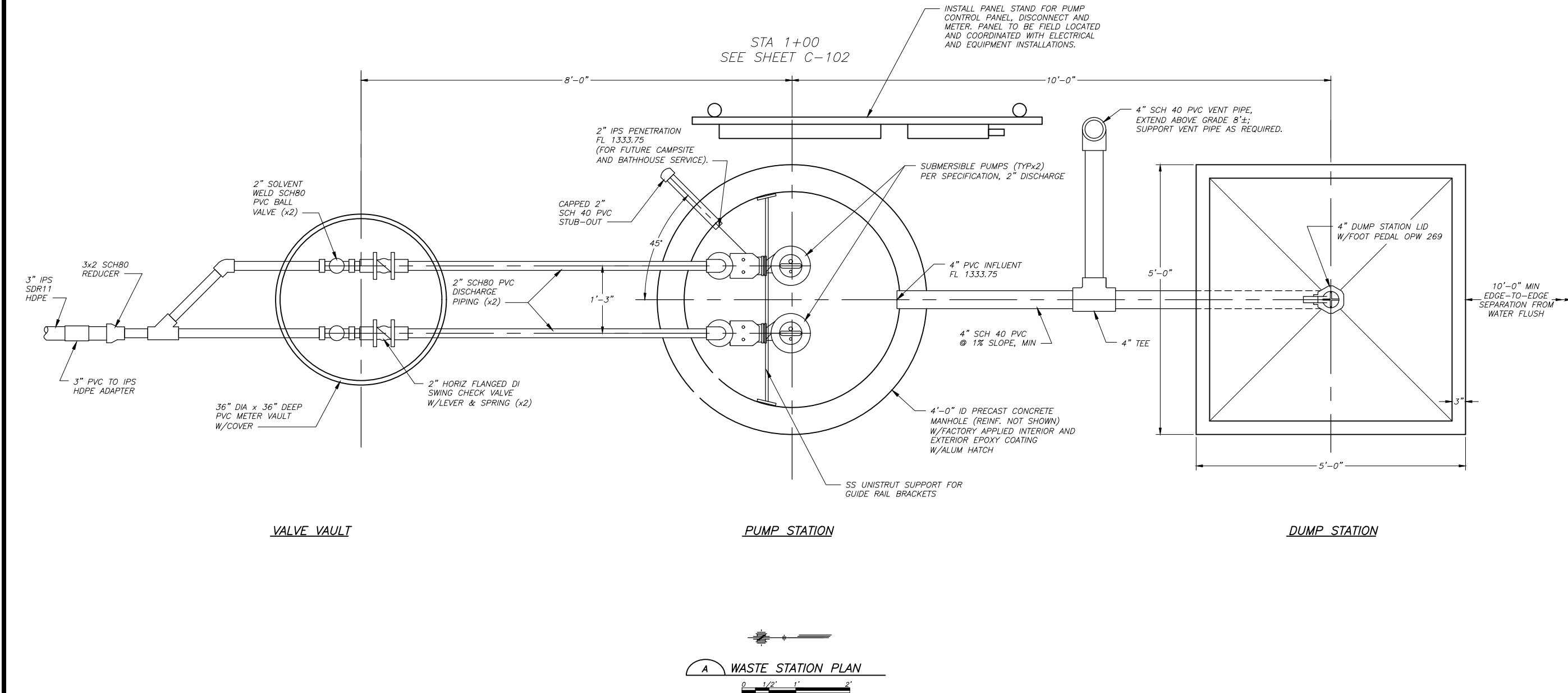
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**WASTE STATION
PLAN DETAILS**

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WASTE STATION PLAN

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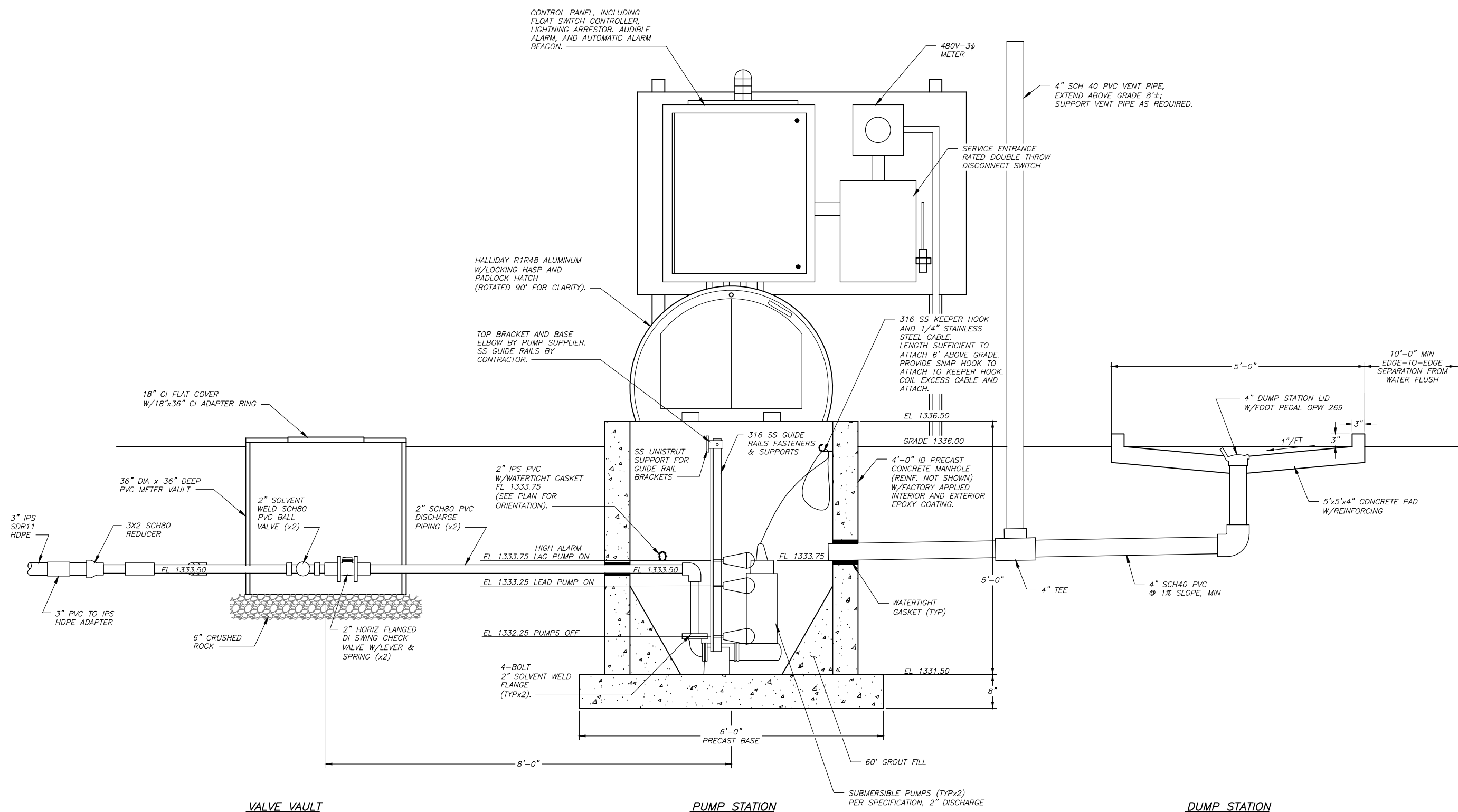
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WASTE STATION SECTION DETAILS

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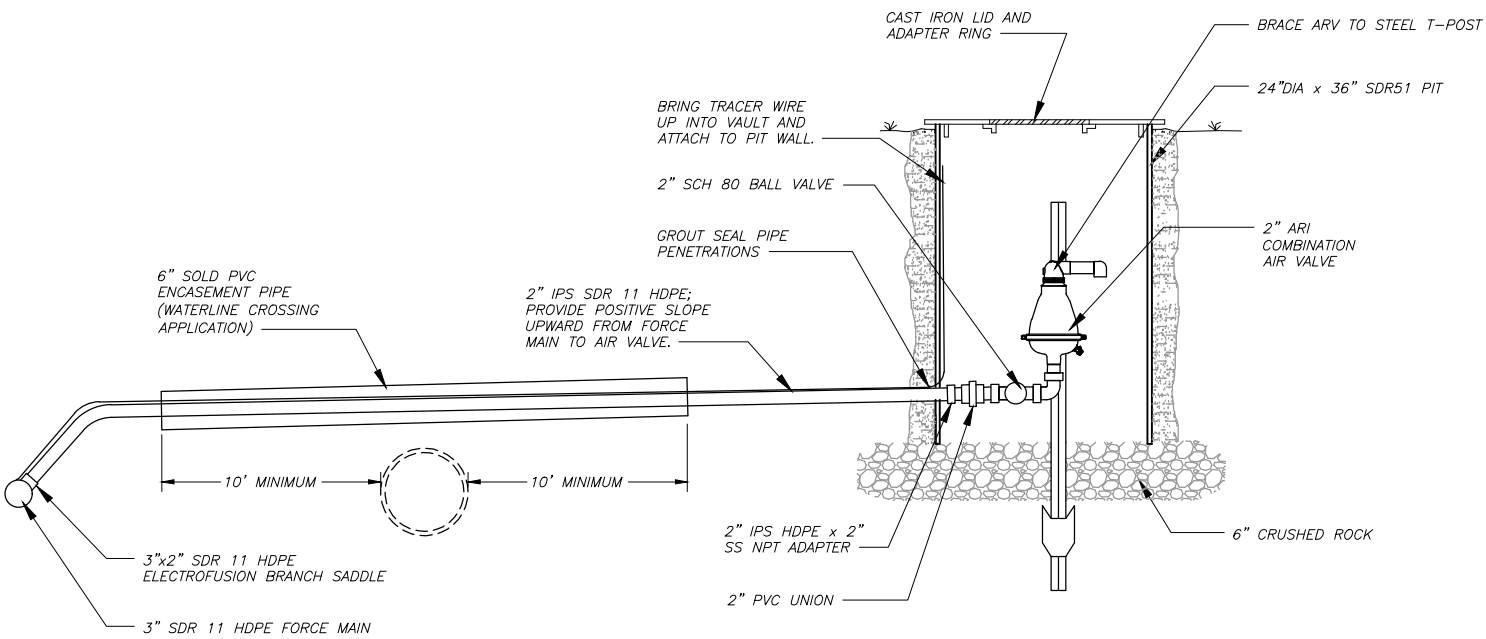
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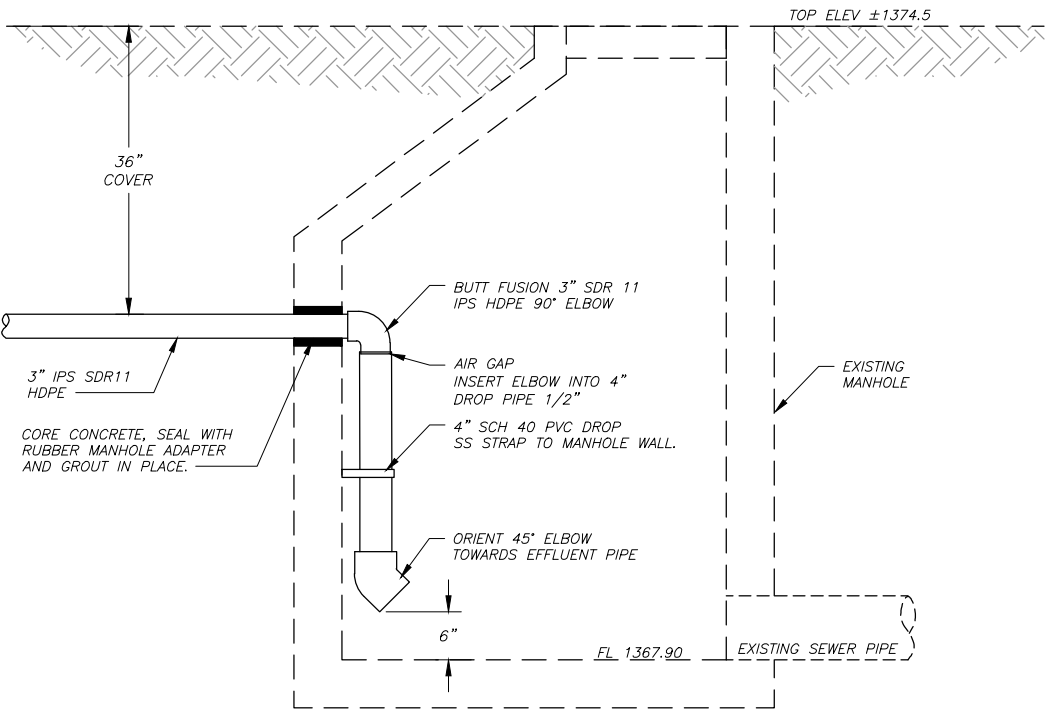
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DETAILS**

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A COMBINATION AIR VALVE PIT
NTS



B RECEIVING MANHOLE CONNECTION
NTS

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	Construction Set				
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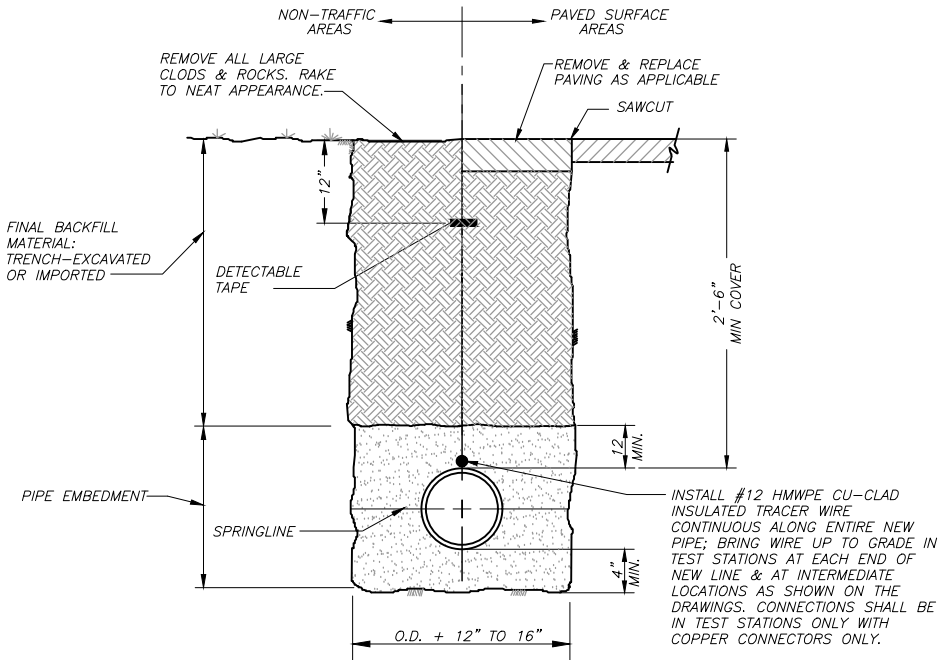
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TYPICAL PIPING
DETAILS

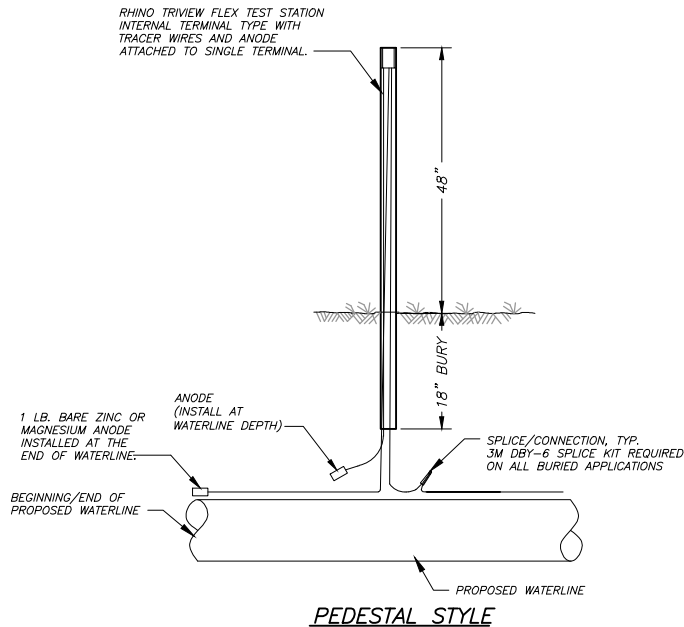
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C-701

STANDARD TRENCH CONSTRUCTION NOTES

1. TRENCH BOTTOM – TRENCH SHALL BE CONSTRUCTED TO PROVIDE A FIRM, STABLE, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE. WHEN AN UNSTABLE SUBGRADE CONDITION IS ENCOUNTERED WHICH WILL PROVIDE INADEQUATE PIPE SUPPORT, ADDITIONAL TRENCH DEPTH SHALL BE EXCAVATED AND REFILLED WITH SUITABLE FOUNDATION MATERIAL. PIPE EMBEDMENT – PIPE EMBEDMENT MATERIAL SHALL BE LOCALLY AVAILABLE
2. GRANULAR MATERIAL, FREE OF DEBRIS, ROOTS, VEGETATION, CLODS, AND FROZEN MATERIAL, AND ROCKS OR STONES LARGER THAN ONE AND ONE-QUARTER INCH IN GREATEST DIMENSION. PIPE EMBEDMENT MATERIAL SHALL BE COMPACTED AND WORKED UNDER THE SIDES OF THE PIPE TO PROVIDE SATISFACTORY HAUNCHING SUPPORT. SEE DETAIL FOR EMBEDMENT MATERIAL REQUIREMENTS.
3. FINAL BACKFILL – THE BALANCE OF BACKFILL ABOVE PIPE EMBEDMENT SHALL BE FREE OF DEBRIS, ROOTS, VEGETATION, CLODS, AND FROZEN MATERIAL, AND ROCKS OR STONES LARGER THAN 1-1/2 INCHES IN GREATEST DIMENSION. FINAL BACKFILL MATERIAL SHALL BE COMPACTED. SEE DETAIL FOR FINAL BACKFILL MATERIAL REQUIREMENTS. COMPACTION – COMPACTION OF EMBEDMENT AND BACKFILL MATERIALS
4. SHALL BE DONE TO SUCH EXTENT THAT NO FURTHER SETTLING OCCURS. COMPACTION MAY BE BY MECHANICAL METHODS OR WATER JETTING: IF BY MECHANICAL METHODS, MATERIAL LIFTS (BEFORE COMPACTION) SHALL NOT EXCEED 6 INCHES; IF WATER JETTING IS USED, MATERIAL SHALL BE FREE –DRAINING AND COMPATIBLE WITH PROCESS.
5. EXCESS MATERIAL – CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF AND DISPOSING OF EXCESS SOIL AND DEBRIS.
6. PIPE EMBEDMENT – ROCK FREE TRENCH EXCAVATED MATERIAL OR SAND SHALL BE PLACED IN NOT MORE THAN 6" LIFTS & COMPACTED BY SLICING WITH A SHOVEL OR VIBRATING.



A TYPICAL FORCE MAIN PIPE TRENCH SECTION
SEE STANDARD CONSTRUCTION TRENCH NOTES THIS SHEET



B TRACER WIRE AND TEST STATION DETAIL

TRACER WIRE NOTES:

CONDUCTIVE TYPE PIPE LOCATOR/TRACER WIRE SHALL BE INSTALLED TO LOCATE ALL WATERLINE PIPES REGARDLESS OF PIPE MATERIAL. TEST STATIONS SHALL BE INSTALLED AS SHOWN ON DRAWINGS. ANY EXCEPTIONS TO THE LOCATION OF TEST STATIONS SHALL BE APPROVED BY THE ENGINEER. AT EACH TEST STATION, THE TRACER WIRE SHALL BE CONNECTED TO A 1 LB. ZINC OR MAGNESIUM ANODE. ANODES SHALL ALSO BE ATTACHED TO THE TRACER WIRE AT BOTH THE BEGINNING AND THE END OF THE PROPOSED WATERLINE. A TYPICAL LAYOUT OF THE TRACER WIRE AND TEST STATION IS PROVIDED IN THE ABOVE FIGURE.

WIRE
TRACER WIRE SHALL BE #12 HMWPE W/45 MIL THICKNESS CU-CLAD INSULATED COPPER TRACER WIRE CONTINUOUS ALONG ENTIRE NEW WATERLINE. THE WIRE SHALL BE TAPED TO THE WATERLINE AND PULLED WITH THE PIPE. SPLICES SHALL BE MADE WITH GEL-FILLED 3M DIRECT-BURY DBY-6 KITS OR EQUAL. BRING WIRE UP TO GRADE IN TEST STATIONS AT EACH END OF NEW LIE & AT INTERMEDIATE LOCATIONS AS SHOWN ON THE DRAWING. TO ALLOW FOR GRADE ADJUSTMENT, A MINIMUM OF 12" OF EXCESS WIRE SHALL BE COILED AT THE BOTTOM OF THE TEST STATION FOR ALL WIRES. THE INSULATION SHEATHING SHALL BE REMOVED SUCH THAT 1" BARE COPPER WIRE IS EXPOSED AT ALL POINTS OF CONNECTION. CONTRACTOR SHALL ATTACH WIRE BEING INSTALLED WITH PROPOSED WATER MAIN TO ANY TRACER WIRE INSTALLED WITH ADJACENT WATERLINE PROJECTS.

TEST STATION
PEDESTAL TEST STATIONS SHALL BE A RHINO TRIVIEW FLEX TEST STATION INTERNAL TERMINAL TYPE EITHER GREEN MARKED WITH "SEWER" OR BLUE MARKED WITH "WATER" WITH TRACER WIRES AND ANODE ATTACHED TO SINGLE TERMINAL.

ALL TEST STATIONS SHALL BE MANUFACTURED USING MOLDED BLUE TOPS OR SUFFICIENTLY COATED WITH BLUE ENAMEL PAINT. THE TRACER WIRE AND THE ANODE WIRE SHALL BE INSTALLED TO ALLOW 10 INCHES OF WIRE WITHIN THE TEST STATION. IN CONCRETE ENVIRONMENTS SUCH AS SIDEWALKS OR IN THE DOWNTOWN AREA THE CONTRACTOR SHALL USE THE FLUSH STYLE TEST STATION. THE LOCATION OF ALL TEST STATIONS SHALL BE APPROVED BY THE ENGINEER, RECORDED, AND SHOWN IN THE AS-BUILT DRAWINGS.

ANODES, CONNECTORS AND SPLICES
ALL BURIED CONNECTIONS AND SPLICES SHALL BE MADE WITH 3M DIRECT BURY DBY-6 SPlice KITS. ALL OTHER CONNECTIONS SHALL BE COPPER CONNECTIONS; NO ALUMINUM WILL BE ALLOWED. AT EACH STATION LOCATION, A 1 LB. ZINC OR MAGNESIUM ANODE SHALL BE BURIED AT WATERLINE DEPTH AND CONNECTED TO TEST STATION. ANODES SHALL ALSO BE ATTACHED TO THE TRACER WIRE AT BOTH THE BEGINNING AND END OF THE PROPOSED WATERLINE.

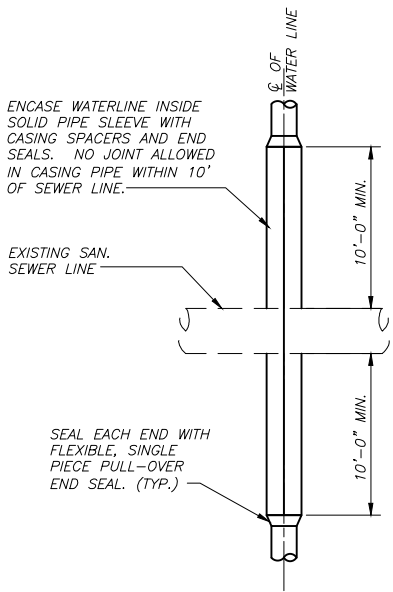
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TYPICAL CROSSING
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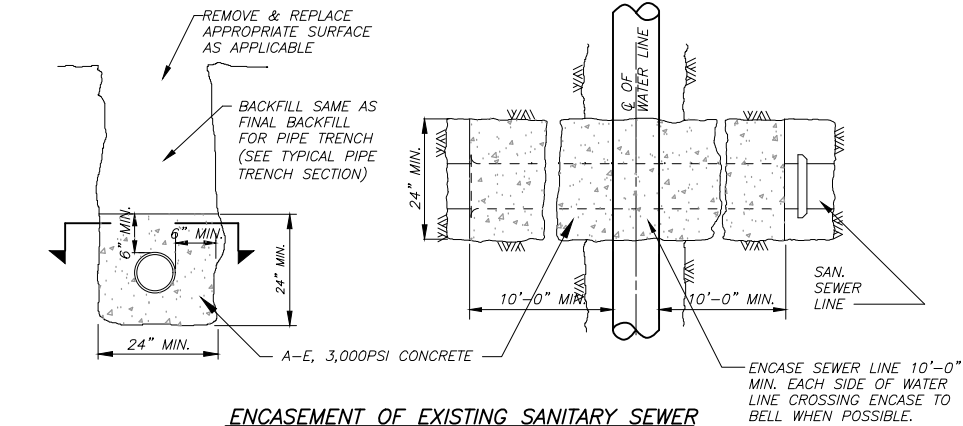
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ENCASEMENT OF WATER LINE w/PIPE SLEEVE

OPTION IF WATERLINE IS BELOW SANITARY SEWER OR WATERLINE IS LESS THAN 2' ABOVE SANITARY SEWER.

IF CROSSING IS IN CITY STREET ROW – ENCASEMENT PIPE SHALL BE PVC PIPE AWWA C-900 WITH A MINIMUM WALL THICKNESS OF DR18.



ENCASEMENT OF EXISTING SANITARY SEWER

OPTION IF WATERLINE IS BELOW SANITARY SEWER OR WATERLINE IS LESS THAN 2' ABOVE SANITARY SEWER.

NOTE: SANITARY SEWER CROSSING WILL ONLY BE PAID IF CONTRACTOR CANNOT ACHIEVE REQUIRED 2' CLEARANCE BY CHANGING WATERLINE ALIGNMENT.

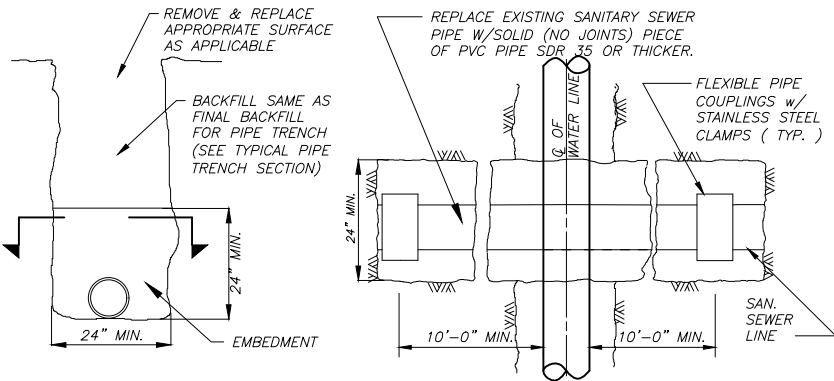
A TYPICAL SANITARY SEWER CROSSING w/ WATER LINE PROTECTION

CENTER FULL LENGTH PIPE FOR WATERLINE OVER SANITARY SEWER AT ALL PLACES WHERE THEY CROSS SO THAT JOINTS ARE LOCATED AS FAR FROM THE CROSSING AS POSSIBLE.

IF WATERLINE IS LESS THAN 2' ABOVE SANITARY SEWER, REPLACEMENT OF EXISTING SANITARY SEWER IS PERMITTED.

IF WATERLINE IS LESS THAN 2' BELOW SANITARY SEWER, REPLACEMENT OF EXISTING SANITARY SEWER IS NOT PERMITTED. AT THE DIRECTION OF THE ENGINEER SANITARY SEWER MAY BE ENCASED IN CONCRETE OR WATERLINE MAY BE ENCASED WITH PVC A MIN. OF 10' EACH WAY.

WATERLINE PROTECTION NOT ACCEPTABLE FOR PRESSURE SEWER LINE WITHOUT SPECIFIC WRITTEN APPROVAL. WATERLINE MUST CROSS ABOVE PRESSURE LINE w/MIN. 2' CLEARANCE.



REPLACEMENT OF EXISTING SANITARY SEWER

OPTION IF WATERLINE IS ABOVE SANITARY SEWER AND IF LESS THAN 2' CLEARANCE BETWEEN PIPES.

NOT PERMITTED IF WATERLINE IS BELOW SANITARY SEWER.



**CONSTRUCTION
DOCUMENTS**
for
**ANTHONY CITY LAKE
RV SERVICE STATION
IMPROVEMENTS 2021**
at
ANTHONY, KS
September 2021

Project No. R3994.1

Helping Clients Prosper + Grow

Evans-Bierly-Hutchison & Associates, P.A.



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SPECIFICATIONS

DIVISION 26 ***ELECTRICAL***

SECTION 26 05 00

BASIC ELECTRICAL MATERIALS AND METHODS**PART 1 GENERAL**

1.01 SUMMARY

- A. The work shall consist of furnishing and installing the electrical system, as described in this section.

1.02 SCOPE

- A. Furnish all labor, materials, equipment, and accessories required (whether specified or shown or not) to provide a complete, properly installed, fully functional electrical system, including control/monitoring/alarm systems, lighting systems, and electrical features of mechanical equipment.
- B. Install electrical equipment accurately in position, level and plumb. Make all electrical conductor, conduit, grounding, and equipment connections. Adjust equipment and make electrical installations ready for service. Balance loads in panels and furnish certificates showing load / phase / neutral imbalances in each panel.
- C. Designate a single organizational unit (within Contractor's organization) to coordinate electrical requirements and data submittals, perform and coordinate functional testing, and coordinate startup and initial operation.
- D. After completing electrical installations and adjustments, demonstrate correct functioning and requirement fulfillment for all electrical circuits, equipment, and systems by testing under the direction of Owners or Engineers representative. Circuits, equipment, and systems shall test free of short circuits, grounds, and electrical / mechanical defects. Insulation resistance to ground shall test not less than NEC requirements.

1.03 SUBMITTALS

- A. Prior to procurement, submit for review manufacturer's product specifications and performance data for service and distribution, control, alarm, and other electrical equipment, components, and systems. Submit sufficient data to demonstrate compliance with the **Specifications**, and equipment compatibility.
- B. At Project closeout, submit five copies of record drawings, including schematics and wiring diagrams.

1.04 QUALITY ASSURANCE

- A. Except as otherwise specified or shown, all electrical equipment, materials, and accessories, and all electrical installation, assembly, and connection operations shall be in accordance with:
1. NEC standards of NFPA.
 2. NESC standards of IEEE.
 3. NEMA standards.
 4. Adopted electrical codes of the State of Kansas, and requirements of the Kansas Inspection Bureau.
 5. Requirements of Owner and the local utility company.

PART 2 PRODUCTS**2.01 CONDUCTORS**

- A. Power and Control Circuits: stranded or solid copper, sized to meet all electrical code requirements, using 600-volt THHN or THWN insulation. Joints and splices (where allowed) shall be of soldered, crimp or compression, or pressure connector type for conductors No. 8 AWG and smaller; bronze split bolt connectors for larger conductors. Conductor terminations shall utilize solderless-type lugs and connectors; No. 8 and smaller shall terminate with pre-insulated, pressure crimp type terminal connectors with ring tongues as required.

2.02 CONDUIT

- A. Metallic conduit shall be rigid, galvanized steel in conformance with ANSI C80.1. Neither intermediate metal conduit (thin wall) nor aluminum conduit shall be used.
- B. Nonmetallic conduit shall conform to NEMA TC2, Schedule 40, with solvent cement joints.
- C. Flexible connections: liquid-tight flexible metal conduit with plastic coating. Flexible connections may be used to terminate lighting fixtures.

2.03 WIRING DEVICES

- A. Switches: single pole and 3-way switches shall be 20 amps, 120/277-volt, specification grade, with stainless steel face plates.
- B. Receptacles: 20 amps, 120-volt, specification grade, with stainless-steel face plates, except face plates for weatherproof receptacles shall be metal, heavy duty, self-closing.

PART 3 EXECUTION**3.01 INSTALLATION**

- A. Install all circuits in conduit. Install milliamp DC circuits in separate conduits from other wiring. Provide a grounding conductor in each conduit.
- B. Install nonmetallic conduit only underground or encased within concrete structures. Underground conduit shall be one-inch minimum diameter or larger, as required.
- C. Install conduits exposed unless otherwise shown or specified. Run parallel with or at right angles to building lines to extent practicable. Support rigid conduit at not less than 10-foot intervals with stainless-steel or nonmetallic clamps or hangers attached to structural members using expansion anchors, preset inserts, beam clamps, or bolted connections.
- D. Provide sleeve or heat shrink permanent markers for each control, monitoring, and alarm circuit conductor. Attach unique identification to such conductors at splices and at each and every connection to control panels, terminal strips, I/O boards, indicators, starters, contacts, sensors, relays, and similar equipment.
- E. Install electrical equipment to facilitate maintenance and repair or replacement of electrical components. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.

END OF SECTION

SECTION 26 40 00

SERVICE AND DISTRIBUTION**PART 1 GENERAL**

1.01 SUMMARY

- A. Electrical equipment shall be installed by the electrical contractor.
- B. Furnish and install all grounding, wiring, conduit, and connections to electrical and mechanical equipment required and as shown on the *Drawings*.

PART 2 PRODUCTS

2.01 LIGHTS, SWITCHES, OUTLETS

- A. As shown on the *Drawings* or as required for the application.

PART 3 EXECUTION (Not Used)

END OF SECTION

SPECIFICATIONS

DIVISION 31 ***EARTHWORK***

SECTION 31 05 00

EARTHWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Definitions: Over-excavation; Additional Excavation.
- B. Excavation: Safety; Classification; Limits and Conditions; Structure Foundations; Trenching; Boring; Tunneling; Stockpiling; Drainage; Disposal.
- C. Backfill: Materials; Placing.
- D. Embankment: Materials; Foundation Preparation; Placing.
- E. Compaction: Water Jetting/Settling; Mechanical Methods.

1.02 DEFINITIONS

- A. Over-excavation: Any and all excavation outside prescribed lines, whether done for convenience or required as a result of Contractor's operations.
- B. Additional Excavation: Any and all excavation outside prescribed lines ordered and authorized by Engineer.

1.03 EXCAVATION

- A. Safety: Provide and maintain safe working conditions within excavations by shoring, sheeting, bracing, benching, or sloping, as required.
- B. Classification: No classification as to type, origin, condition, or other characteristic will be made of excavated material.
- C. Limits and Conditions:
 - 1. Excavate to lines and grades shown on the **Drawings**, described in the **Specifications**, or established by Engineer.
 - 2. Excavate in the dry. Provide and maintain adequate dewatering equipment and systems to remove and dispose of surface and ground water entering excavations; maintain ground water levels at least one foot below bottom of excavation. Discontinue dewatering operations only after construction has progressed to the extent necessary to prevent damage to the Work by such discontinuance. Do not excavate in frozen materials.
 - 3. No blasting or explosives will be permitted. Take necessary precautions and exercise due care to preserve material beyond prescribed lines in soundest condition possible. Remove material rendered unsuitable by excavation or other operations; such removal will be deemed Over-excavation. Refill with compacted suitable material or structural grade concrete.
 - 4. Over-excavation, and refill work occasioned thereby, shall be at no cost to Owner. Additional Excavation, and refill work occasioned thereby, will be paid for by **Change Order**.
- D. Structure Foundations: Accurately finish excavation surfaces to receive concrete. Moisten and tamp or roll surfaces to provide a firm foundation for concrete. Refill Over-excavation and Additional Excavation in earth foundations with compacted suitable material; in rock foundations, refill with structural grade concrete.

- E. Trenching: Except where boring or tunneling is required or permitted, excavate trenches by open cut from the surface. Use hand methods where trenching equipment would damage trees, buildings, utilities, or other property or structures above or below ground.
1. From at least one foot above top of pipe to trench bottom, trench walls shall be vertical and trench width shall be not less than 12 inches nor more than 24 inches wider than the pipe's outside diameter, unless otherwise shown on the ***Drawings***.
 2. Accurately finish trench bottoms to prescribed lines and grades. Provide suitable holes for bells, flanges, and other protrusions to ensure uniform longitudinal support under the pipe. Refill Over-excavation and Additional Excavation with compacted pipe embedment material.
- F. Boring: Utilize only dry methods, such as percussion or rotary, for horizontal boring operations: no sluicing or jetting will be permitted. Bored hole diameter shall not exceed maximum section pipe diameter by more than 1½ inches for 12-inch pipe and smaller, or 2 inches for pipe larger than 12-inch. Fill excessive voids, cavities, cave-ins, and abandoned bore holes by pressure-grouting with sand-and-cement slurry (minimum of 2 bags cement per cubic yard slurry) as directed and approved by Engineer and at no cost to **Owner**.
- G. Tunneling: Utilize only dry methods: no sluicing or jetting will be permitted. Tunneling will not be permitted where the resultant tunnel length, measured at pipe grade, would exceed eight (8) feet.
- H. Stockpiling: Pile excavated material so as to not endanger the Work, property, or people, so as to avoid obstructing traffic paths, vehicular and pedestrian, and so as to retain accessibility to fire hydrants, valves, call boxes, utility controls, and similar features. Keep gutters, ditches, culverts, and similar drainage facilities clear or provide for otherwise maintaining satisfactory drainage.
- I. Drainage: Provide and maintain drainage through and across the Work at all times during construction. Drainage shall be sufficient to prevent ponding or standing water in excavations or other Work areas. Do not dam or divert runoff in such a manner as to cause damage to adjacent properties.
- J. Disposal: Use suitable materials from required excavations, or as much thereof as may be needed, in the permanent construction required under the ***Contract Documents***. Waste unsuitable and unneeded material away from the site at locations subject to Engineer's approval. Waste banks shall not interfere with natural drainage nor detract from property. Grade and shape waste banks to reasonably even and uniform lines and surfaces, and provide for proper drainage.
- 1.04 BACKFILL
- A. Materials: As available, obtain backfill material from material moved in required excavations; if not available therefrom, obtain backfill material from an approved source. Backfill material shall be free of debris and organic material, and masses of moist, stiff clay shall not be used. Material used for backfill shall be subject to Engineer's approval.
1. Backfill Not to be Compacted: maximum particle size of 3 inches.
 2. Backfill to be Compacted: maximum particle size of - inch if used for pipe embedment material.
 3. Sand Backfill: clean, pit-run sand with 1-inch maximum particle size and less than 5 percent by weight passing No. 200 standard sieve.
- B. Placing: Place backfill to lines and grades shown on the ***Drawings***, described in the ***Specifications***, or established by Engineer. The manner of depositing backfill material shall be subject to Engineer's approval.
1. Place backfill in approximately horizontal, uniform layers and spread to fill spaces about rocks and clods. Backfill shall be free of lenses, pockets, and layers of material differing substantially from surrounding material.
 2. Do not drop backfill directly on pipe. Place backfill to about the same elevation on both sides of pipe to prevent unequal loading and displacement of pipe.

3. Do not place backfill against newly constructed concrete walls until either the wall, concrete, and any supporting or bracing concrete, has attained design strength or the wall has been adequately braced to support the lateral load.
4. Ram tunnel backfill in place to completely fill the excavated section and provide maximum compaction practicable. Do not transmit damaging shocks to pipe or structures.
5. Determine and place adequate depth of fill over pipe and conduit to prevent damage from construction equipment loads.
6. Backfill in the dry. Do not place backfill when either the material or the receiving surfaces are frozen.

1.05 EMBANKMENT

- A. Materials: As available, obtain embankment material from material moved in required excavations; if not available therefrom, obtain embankment material from an approved source. Embankment material shall be free of rubbish, refuse, roots, stumps, logs, vegetation, and other foreign or objectionable material. Material used for embankment shall be subject to Engineer's approval.
 1. Embankment Not to be Compacted: maximum particle size of 12 inches.
 2. Embankment to be Compacted: maximum particle size of 4 inches.
 3. Sand Embankment: clean, pit-run sand or gravelly sand with 3-inch maximum particle size and less than 5 percent by weight passing No. 200 standard sieve.
- B. Foundation Preparation: Prior to placing embankment, strip foundation areas of all vegetation, scarify to 6-inch depth, and compact to the same requirements as the embankment to be placed thereon.
- C. Placing: Place and maintain embankment to lines and grades shown on the **Drawings**, described in the **Specifications**, or established by Engineer. The manner of depositing and leveling embankment material shall be subject to Engineer's approval.
 1. Place embankment in approximately horizontal, uniform layers across the entire width of the embankment. Spread and level material so that rock and gravel are well distributed and not nested within or under the embankment. Embankment shall be free of lenses, pockets, and layers of material differing substantially from surrounding material.
 2. Route hauling equipment to evenly distribute travel over entire width of previously placed layers.
 3. Construct embankment in the dry. Do not place embankment when either the material or the receiving surfaces are frozen.

1.06 COMPACTION

- A. Where compacted backfill or compacted embankment is required, compact material to such extent that no further or future settlement occurs. Contractor shall proof roll compacted backfill and compacted embankment with a fully loaded tandem truck. Any pumping or deflection of compacted material of more than ½" will require removal and replacement with suitable material. At any time during the correction period under the **Contract Documents**, settlement requiring repair will be deemed Defective Work and Contractor's responsibilities and **Owner's** rights shall be as set forth in the **Contract Documents**.
- B. Unless otherwise specified or shown, compaction shall be accomplished by mechanical methods. Do not transmit damaging shocks to pipe or structures. Do not disturb or damage previously placed pipe embedment or compacted materials.

1. Mechanical Methods:

- a. Add water or dry out as may be required to obtain a uniform moisture content and achieve required density with compaction method being used.
- b. Place material in horizontal layers so that the thickness of each layer before compaction is not more than 6 inches.
- c. Use methods and equipment suitable and appropriate for the location to be compacted. Compact with rollers or hand or power tampers. Rollers used on any one layer shall be the same type and same weight per foot. Tampers used in confined areas, such as pipe haunches, shall be equipped with suitably shaped heads.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SPECIFICATIONS

DIVISION 32 ***EXTERIOR IMPROVEMENTS***

SECTION 32 92 19

SEEDING

PART 1 GENERAL

1.01 SUMMARY

- A. Areas to be seeded include areas disturbed by construction or established by Engineer.
- B. Sow grass seed between August 1st and November 1st or between March 1st and May 1st. Mulch all seeded areas in accordance with this Section.
- C. Provide protective and remedial measures as may be required to establish a satisfactory stand of grass in all such seeded areas. A grass stand will be deemed satisfactory when bare spots do not exceed one square foot in size and do not make up more than 3 percent of the seeded area, and when grass is uniform in color and density.
 - 1. When the Work under the **Contract Documents** has been otherwise completed, if a determination of the satisfactory condition of such seeded areas cannot be made, payment for undetermined areas will be withheld until such determination can be made.
 - 2. Contractor will not be held responsible for unsatisfactory areas provided that (i) the unsatisfactory condition is attributable to the property owner's lack of maintenance, and (ii) the property owner was promptly and duly notified, including maintenance instructions, at the completion of seeding operations for that area.

1.02 SUBMITTALS

- A. Prior to sowing, submit to Engineer for information a Supplier certification that each lot of seed has been tested by a recognized seed testing laboratory within 6 months of date of delivery. Certification shall include:
 - 1. Name and address of testing laboratory.
 - 2. Lot number for each kind of seed tested, and date of test.
 - 3. Test results, including type of seed, percentages of purity, germination, and weed content, and proportions of mixtures as applicable.

PART 2 PRODUCTS

2.01 SEED

- A. Grass Seed: Standard containers labeled in accordance with U.S. Department of Agriculture "Rules and Regulations Under the Federal Seed Act" as to type, lot number, net weight, and percentages of purity, germination, and weed content. Seed mixture per acre shall consist of:

<u>Seed Type</u>	<u>Pounds Pure Live Seed Per Acre</u>
Bermunda Grass	130.0
Annual Rye Grass	50.0

Total Pounds PLS Per Acre 180.0

Other material shall not exceed one percent by weight.

2.02 FERTILIZER

- A. Fertilizer: Commercial carrier of available nitrogen; 12-12-12; no cyanamide compounds or hydrated lime; unopened original containers clearly marked with guaranteed analysis of contents and net weight.

2.03 MULCH

- A. Mulch: prairie (native) hay or other approved material free of bindweed, Johnson grass, and other undesirable weeds. Mulch at a rate of 2 tons prairie hay/acre.

PART 3 EXECUTION

3.01 SEEDBED PREPARATION

- A. Backfill the top 6 inches of trenched or excavated areas with soil equivalent to or better than that beneath adjacent grassed areas.
- B. Scarify or otherwise loosen seedbeds to a depth of at least 5 inches.
- C. Immediately prior to seeding operations, the top 3 inches of seedbeds shall be free of stones larger than 2 inches in maximum dimension, large clods, compacted areas, roots, established turf, sticks, stumps, debris, and other objectionable matter which could interfere with sowing, growing, or maintenance of seeded areas.

3.02 SEEDING

- A. Following seedbed preparation, spread fertilizer uniformly to provide a minimum of 30 pounds of available nitrogen per acre. Equipment capable of applying fertilizer and sowing seed simultaneously will be permitted.
- B. Immediately after (or concurrent with) fertilizing, sow grass seed by drilling, or other approved method, at the specified rate. Drill as required to provide row spacing of 3 to 6 inches, and sow seed to a depth of 1/4 to 1/2 inch. Cover fertilizer and seed to an average depth of 3/8 inch.

3.03 MULCHING

- A. Mulching will be required for areas seeded.
 - 1. After seeding, spread mulch to a uniform loose thickness of 1-1/2 to 2 inches. Anchor mulch with a straight, serrated disc weighted to press the mulch at least 2 inches into the seedbed. Disc spacing shall not exceed 12 inches. Do not leave spread mulch unanchored overnight. Mulch areas no more than 24 hours behind seeding operations.

3.04 NOTIFICATION, PROTECTION, AND REPAIR

- A. Promptly notify property owner when seeding of that property is completed, including instructions as to watering and care of newly planted grass.
- B. Protect seeded areas against traffic, erosional, and other construction-related damage by use of warning signs, barricades, or other effective means until completion and acceptance of the Work under these ***Contract Documents***.
- C. Repair traffic, erosional, or other construction-related damage by re-grading and reseeding as required or as directed by Engineer.

END OF SECTION

SPECIFICATIONS

DIVISION 33 ***UTILITIES***

SECTION 33 05 09

FACILITY PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 GENERAL

- A. Any potable water pipe, fittings, and service line shall have the NSF International seal indicating product certification for potable water.

1.02 SUBMITTALS

- A. Prior to procurement, submit for review manufacturer's product specifications and performance data for service and distribution, control, alarm, and other electrical equipment, components, and systems. Submit sufficient data to demonstrate compliance with the **Specifications**, and equipment compatibility.

1.03 HANDLING AND STORAGE

- A. Handle and store pipe, fitting, valves, hydrants, and other accessories so as to prevent damage to or deterioration of shells, coatings, linings, internals, connectors, seals, and other parts.
 - 1. Components shall not be dropped or subjected to unnecessary jarring or impact.
 - 2. Hooks, slings, and other handling equipment shall provide sufficient bearing areas or padding to prevent contact surface damage.
 - 3. Valves, hydrants, and similar components shall be kept drained before installation to prevent damage due to freezing of trapped water.
- B. Keep interiors of pipe, fittings, valves, hydrants, and other accessories clean and free of dirt or other foreign matter at all times.
- C. Minimize hauling and re-handling during component distribution by unloading components at or very near respective installation locations.

PART 2 PRODUCTS

2.01 PIPE & FITTINGS

- A. PVC Pipe:
 - 1. ASTM D 1785: Schedule 80 PVC plastic pipe (DWV Schedule 40).
 - 2. ASTM D 2467: PVC Plastic Pipe Fittings, Schedule 80 (DWV Schedule 40).
 - 3. ASTM D 2564: Solvent Cements for PVC pipe.
 - 4. ASTM D1784: material Class 12454 – A or B.
 - 5. NSF International: NSF 61 product certified for potable water.
- B. Polyethylene Tubing (HDPE):
 - 1. AWWA C901, NSF 61 product certified, SDR 9, PC 250 psi, Copper Tube Size (CTS) outside diameter, with stiffeners, size as shown on the **Drawings**.

C. Brass Fittings:

1. AWWA C800; brass (All brass fittings shall conform to NSF 372, Reduction of Lead in Drinking Water Act (2014), as applicable.); joints as shown on the **Drawings** (compression type joints to have insert stiffeners when used with flexible plastic tubing); fitting shall provide electrical continuity across connection as applicable.
2. NSF International: NSF 61 product certified for potable water.

2.02 TRACER WIRE

- A. Tracer Wire: Copper-Clad Steel (CCS) with solid steel core; No. 12 AWG minimum conductor employing HMWPE with a 45-mil min average thickness, and a minimum thickness at any point of 42 mils. Copper cladding shall account for 3% of total conductor diameter. Surface marking on the wire shall be ink-printed, indent-printed, or embossed on the outer surface of the cable at 24 in. or shorter intervals with the following: (1) Manufacturer's Identification – Listee's name or File "E98017" or trade name, (2) Voltage Rating: 30v or 600v (3) AWG size, (4) "(UL)" or "UL" and (5) Tracer Wire. The tracer wire shall be manufactured to ASTM and/or UL Specifications. Tracer wire shall be Pro-Trace, or equal.
- B. Connectors and Splices: All connection and splices shall be made with 3M Direct Bury DBY-6 splice kits. No aluminum will be allowed. Test stations shall be installed as shown on the drawings. At each test station, the tracer wire shall be connected to a 1 lb. zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed water line.
- C. Rhino Tri-View Type Test Station: Test stations shall be Rhino Cathodic Protection Tri View Flex Test Station or approved equal, The Tri View marker shall have internal test leads, be triangular in shape with each side at least 3" wide, 66" long, be buried 18" deep, and be blue in color. The marker shall have two decals that state "WARNING WATER PIPELINE" and show the 811 logo. All test stations shall be sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be installed to allow 10 inches of wire within the test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the "as-built" drawings.
- D. Color of test station shall correspond to type of utility being located. Blue = Water line, Green = Wastewater, Yellow = Gas line.
- E. The anodes shall be 1 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the water line at each test station. The anodes shall be connected to with tracer wire at each test station.

2.03 DETECTABLE TAPE

- A. Detectable Tape: Detectable tape shall be installed above all buried piping, except piping installed beneath structures or by boring or tunneling operations. Tape shall be inductively locatable and conductively traceable using standard pipe/cable equipment for a minimum of 8 years after direct burial. Tape shall consist of one layer of aluminum foil laminated between inert plastic films, shall be 3 inches (minimum) wide by 4.3 mils (minimum) thick, and shall be continuously imprinted with a warning message "WATER LINE BELOW" (or similar) every 16 to 36 inches.

2.04 VALVES AND APPURTENANT EQUIPMENT

- A. Sanitary Yard Hydrant: Woodford Model S3, or equal; 1" NPT inlet; 36" bury.
- B. Double Backflow Preventer: Zurn-Wilkins 950XLT2; NSF 61 Product Certified; Lead Free; 1" NPT Inlet and outlet.
- C. Backflow Preventer Pit: SDR51 PVC as shown on drawings. Lids shall be flat ductile iron.
- D. Stop-Waste Valve: Ford BC440444MSW-NL or equal; 1" NPT inlet and outlet; NSF 61 product certified; Lead Free; Include with Minneapolis pattern box and 6' shut off rod.

- E. Saddle: Ford S70 Series, or equal; AWWA C800; "O" ring gasket; AWWA Tapered Thread; specifically for type of pipe to be tapped (IPS PVC).
- F. Corporation Valves: AWWA C800; brass (all brass fittings shall conform to NSF 372, Reduction of Lead in Drinking Water Act (2014), as applicable.); ball type; AWWA tapered threaded inlet; compression joint type outlet, NSF 61 product certified. Valve shall be Ford FB1000 Series, or equal.
- G. Hose Bibb: Zurn 195XL Hose Bibb, or equal; ¾" NPT inlet; Lead Free.
- H. Flush Tower: Spring loaded dump station water hose kit; integral vacuum breaker and shut-off valve; RVParkSupplies.com Part # DUMPSTATIONWATER, or equal.
- I. Dump Station Sanitary Lid: RVParkSupplies.com Part # METALDUMPSTATIONLID, or equal.
- J. Dump Station Signage: 12 x 9 Aluminum Sign; one indicating "Non-Potable Water" and one indicating "Potable Water". RVParkSupplies.com Part # NONPOTABLEWATERSIGN and Part # POTABLEWATERSIGN, or equal.

PART 3 EXECUTION

3.01 DISINFECTION:

- A. All finished water lines:
 - 1. During construction, the interior as well as all sealing surfaces of pipes, fittings and accessories should be kept as clean as possible. All openings in pipelines should be closed with watertight plugs whenever it is unattended.
 - 2. Before being chlorinated, the line should be completely filled with water and then flushed to purge the line of dirt and debris. Preliminary flushing should be accomplished at a rate of 2.5 ft/sec. Preliminary flushing, however should not be conducted if tablets or granules of calcium hypochlorite have been placed in the pipe during installation.
 - 3. Disinfect before line is placed in service. Plan and execute disinfection procedures to prevent backflow into or contamination of previously disinfected mains or the existing system.
 - 4. Disinfect mains in accordance with AWWA C651 and KDHE requirements. Chlorinate mains by tablet, continuous, or slug method. Initial chlorine concentrations, minimum contact times, and minimum chlorine residual concentrations shall be as follows:

Chlorination Method <u>Used</u>	Initial Chlorine Dose <u>(mg/L)</u>	Minimum Contact Time <u>hours</u>	Minimum Chlorine Residual <u>(mg/L)</u>
Tablet	25	24	10
Continuous	25	24	10
Slug	100	3	50

- 5. Test for residual at locations representing a **maximum** of 1,000 feet of main. If residual is less than specified, flush and re-disinfect until specified performance is demonstrated.
- 6. Flush all disinfection solution with potable water. Lines should be flushed until the chlorine residual measurements show that the concentration in the water leaving the line is no higher than that generally in the distribution system. Take necessary precautions and provide protective measures required regarding the discharge and disposal of highly chlorinated water. Dechlorination procedures are to be performed in accordance with AWWA C655.
- 7. Upon completion of disinfection and flushing, the system shall be filled with water and samples taken for bacteriological testing. Two samples shall be taken at least 16 hours apart for each section of line installed and submitted to a KDHE approved lab. If either bacteria sample is unsatisfactory, flush, re-disinfect and test again until specified performance is demonstrated.

8. Contractor is responsible for all costs incurred for disinfection and all testing.
9. All bacteria test results must be furnished to Owner prior to waterline being placed into service

B. Connections to Existing System:

1. Disinfect immediately before closure or otherwise making water-contacting surfaces inaccessible.
2. Thoroughly swab and wash all water-contacting surfaces, including exposed surfaces of the existing system, with a 10,000 mg/L available chlorine solution.

3.02 TESTING

A. Pressure Test:

1. All newly installed mains must be pressure and leakage tested prior to final acceptance. All pressure and leakage testing shall be performed in accordance with AWWA standards. The applicable standard for ductile iron pipe is C600, for PVC pipe is C605, latest version.
2. Except at connections to an existing system, pressure test all pipe and system component joints at a minimum pressure of 100 psi, or 150% of working pressure in the line, whichever is greater, for a minimum duration of 2 hour. The test pressure shall not be allowed to fall below 125% of normal operating pressure at the highest point of each section of pipe being tested. Provide accurate means to measure water pressure in the line. Measured water pressure may not vary by more than 5 psi during the duration of the test. Conduct simultaneous leakage and pressure tests in the presence of Engineer. If the pressure loss exceeds allowable loss, locate and repair leaks and retest until specified performance is demonstrated.

B. Leakage Test:

1. The specified test pressure for the leakage test is the same as for the pressure test above.
2. Conduct tests in the presence of Engineer.
3. Provide accurate means to measure the quantity of water pumped into the main being tested. Examples, such as calibrated make-up reservoir, calibrated positive-displacement pump, or a water meter. Leakage is the quantity of water that must be supplied into the main in order to maintain the water pressure within 5 psi of the specified test pressure after the pipe has been filled with water and air expelled.
4. Leakage during the pressure test shall not exceed the allowable leakage calculated from:

where: L=allowable leakage, gal/hr
 D=pipe diameter, inches
 P=test pressure, psi
 S=length of pipe tested, feet

$$L = \frac{SDP^{0.5}}{148,000}$$

5. If leakage test fails, any damaged or defective pipe, fittings, valves, hydrants, or joints shall be repaired or replaced and the leakage test repeated until satisfactory results are obtained.

C. Simultaneous Leakage/Pressure Test:

1. The system shall be allowed to stabilize at the test pressure before conducting the leakage test.
2. Conduct simultaneous Leakage/Pressure tests in the presence of Engineer.
3. The test pressure must hold for 2 hours prior to pumping water into the main being tested for the leakage part of the simultaneous test.

END OF SECTION

SECTION 33 32 16

WASTEWATER PUMPING STATION

PART I GENERAL

1.01 SUMMARY

- A. The Contractor shall furnish and install a duplex, submersible grinder pump lift station at the location shown on the **Drawings**. The pumps shall be manufactured by EBARA International Corporation. The station shall be complete with all necessary equipment and in operation condition. Discharge flange shall be 2" standard. All electrical work and material shall comply with the National Electric Code and the National Electric Safety Code.

1.02 SUBMITTALS

- A. Prior to procurement, submit for review manufacturer's product specifications and performance data for pumps, control and level sensing systems, piping, valves, enclosure, and other system components in sufficient detail to demonstrate compliance with the **Specifications** and compatibility with other components.
- B. At Project closeout, submit 5 copies of record Drawings, including schematics and wiring diagrams, and 5 copies of operation and maintenance manuals for each major component or system. Manuals shall include:
 - 1. Preventive maintenance schedules and time requirements.
 - 2. Complete operational instructions, including emergency procedures.
 - 3. Complete parts lists and recommended spare parts to be kept on hand.
 - 4. Precautions and safety measures for operation, maintenance, and repair.
 - 5. Tips for efficient operation; troubleshooting guide and procedures.
 - 6. Name, address, and telephone of nearest authorized repair and service.

1.03 QUALITY ASSURANCE

- A. Pumps, motors, and control and level sensing systems shall be new and current equipment of a manufacturer regularly engaged in the production and assembly of such equipment as a matched system to ensure single point responsibility and equipment compatibility.
- B. Except as otherwise specified or shown, all electrical equipment, materials, and accessories and all electrical installation, assembly, and connection operations shall be in accordance with:
 - 1. NEC standards of NFPA;
 - 2. NESC standards of IEEE;
 - 3. NEMA standards;
 - 4. Adopted electrical codes of the State of Kansas and requirements of the Kansas Inspection Bureau; and
 - 5. Requirements of **Owner** and the local utility company.

PART 2 PRODUCTS

2.01 PUMPS

- A. General:
 - 1. Provide submersible grinder sewage pumps suitable for continuous duty operation underwater without loss of watertight integrity to a depth of 65 feet.

2. Unit shall be designed with a grinder system to macerate material found in normal domestic and commercial sewage including reasonable amounts of wood chips, plastics, disposable diapers, sanitary napkins etc., to a fine slurry.
3. If mounted on a guide rail system, design shall be such that the pump will be automatically connected to the discharge piping when lowered into place on the discharge connection. The pump shall be easily removable for inspection or service, requiring no bolts, nuts, or other fasteners to be disconnected, or the need for personnel to enter the wet well.
4. The motor and pump shall be designed, manufactured, and assembled by the same manufacturer.

B. Manufacturer:

1. EBARA International Corporation.

C. Pump Characteristics:

1. Pumps shall conform to the following requirements:
 - a. Number of Pumping Units: 2
 - b. Design Flow: 50 (gpm)
 - c. Design TDH: 115 (ft)
 - d. Minimum Shut-Off Head: 140 (ft)
 - e. RPM 3600 Maximum
 - f. 5 HP
 - g. Motor full load amps: 9.4 F.L.A. max.
 - h. Voltage/HZ: 460V / 60 Hz 3 Phase.
 - i. Model No.: Ebara 50DGFU63.7, 157mm impeller.
 - j. Motor Rating: FM Explosion Proof.

D. Pump Construction:

1. All major parts of the pumping unit(s) including casing, impeller, motor frame and discharge elbow shall be manufactured from gray cast iron, ASTM A-48 Class 30.
2. Castings shall have smooth surfaces devoid of blow holes or other casting irregularities.
3. Casing design shall be centerline discharge with a large radius on the cut water to prevent clogging.
4. Units shall be furnished with a discharge elbow and 125 lb. flat face ANSI flange. All exposed bolts and nuts shall be 304 stainless-steel.
5. All mating surfaces of major components shall be machined and fitted with NBR O-rings where watertight sealing is required. Machining and fitting shall be such that sealing is accomplished by automatic compression of O-rings in two planes and O-ring contact is made on four surfaces without the requirement of specific torque limits.
6. Internal and external surfaces are prepared to SPPC-VISI-SP-3-63 then coated with a zinc-chromate primer. The external surfaces are then coated with a H.B. Tnemecol 46-465 Coal Tar paint.

7. Impeller design shall be a recessed, semi-vortex, multi-vane design. It shall include back pump out vanes to reduce the pressure and entry of foreign materials into the mechanical seal area. Impellers shall be direct connected to the motor shaft with a slip fit, key driven, and secured behind the rotary grinder impeller and nut.
8. The grinder system shall consist of stationary cutter ring and rotary grinder impeller, each manufactured of a chrome alloy cast-iron with a minimum hardness of HRC 60. The rotary grinder impeller shall be direct connected to the motor shaft with a slip fit, key driven, and secured with an impeller nut. The pump suction shall be machined to accept the stationary cutter ring which is held in place by a disk cover plate which bolts to the casing.
9. Double mechanical seals operating in an oil bath shall be provided on all units. The oil filled seal chamber shall be designed to prevent over-filling and include an anti-vortexing vane to ensure proper lubrication of both seal faces.
10. Face materials shall be carbon/ceramic for the upper seal and silicon carbide for both lower seal faces. The elastomers shall be of NBR material and hardware shall be 304SS. Seal system shall not rely on pumping medium for lubrication.

E. Motor Construction:

1. Motor shall be rated EX-P.
2. The pump motor shall be an air-filled induction type with a squirrel cage rotor, shell type design, built to NEMA MG-1, Design B specifications.
3. Stator windings shall be copper, insulated with moisture resistant Class F insulation, rated for 311°F. The stator shall be dipped and baked three times in Class F varnish and heat shrunk fitted into the stator housing.
4. Rotor bars and short circuit rings shall be manufactured of cast aluminum.
5. Motor shaft shall be one-piece AISI403 material, rotating on two permanently lubricated ball bearings designed for a minimum B-10 life of 60,000 hours. Upper bearing shall be a single ball type. Lower bearing shall be a double row angular contact ball type.
6. Motor service factor shall be 1.15 and capable of up to 20 starts per hour. The motor shall be designed for continuous duty pumping at a maximum sump temperature of 104°F. Voltage and frequency tolerances shall be a maximum 10 / 5% respectively.
7. Motor over temperature protection shall be provided by miniature thermal protectors embedded in the windings.
8. Mechanical seal failure protection shall be provided by a mechanical float switch located in a chamber above the seal. This switch shall be comprised of a magnetic float that actuates a dry reed switch encapsulated within the stem. Should the mechanical seal fail, liquid shall be directed into the float chamber, in which the rising liquid activates the switch opening the normally closed circuit. The float body and float shall be a polypropylene material with a 316SS stopper.
9. The motor shall be non-overloading over the entire performance curve and be able to operate at full load intermittently, while unsubmerged without damage to the unit.
10. Power cable jacket shall be manufactured of an oil resistant chloroprene rubber material, designed for submerged applications. Cable shall be watertight to a depth of at least 65'.
11. The cable entry system shall comprise of primary, secondary, and tertiary sealing methods. The primary seal shall be achieved by a cylindrical elastomeric grommet compressed between the motor cover and a 304SS washer. Secondary sealing is accomplished with a compressed O-ring made of NBR material. Compression and subsequent sealing shall preclude specific torque requirements. The system shall also include tertiary sealing to prevent leakage into the motor housing due to capillary action through the

insulation if the cable is damaged or cut. The cable wires shall be cut, stripped, re-connected with a copper butt end connector, and embedded in epoxy within the cable gland. This provides a dead end for leakage through the cable insulation into the motor junction area.

2.02 LIFT OUT RAIL SYSTEM

- A. Design shall include two (2) 304SS schedule 40 guide rails sized to mount directly to the quick discharge connector, QDC, at the floor of the wetwell and to a guide rail bracket at the top of the wetwell below the hatch opening, (refer to project **Drawings**). Intermediate guide brackets are to be installed for rail lengths over 15 feet.
- B. The QDC shall be manufactured of cast iron, A48 Class 30. It shall be designed to adequately support the guide rails, discharge piping, and pumping unit under both static and dynamic loading conditions with support legs that are suitable for anchoring it to the wetwell floor. The face of the inlet QDC flange shall be perpendicular to the floor of the wetwell. The pump design shall include an integral self-aligning sliding bracket. Sealing of the pumping unit to the QDC shall be accomplished by a single, linear, downward motion of the pump. The entire weight of the pump unit shall be guided to and wedged tightly against the inlet flange of the QDC, making metal to metal contact with the pump discharge forming a seal without the use of bolts, gaskets or O-rings.
- C. A stainless-steel lifting chain of adequate length for removing and installing each pump unit is to be furnished and installed. The chain shall have a round link with a 2-1/4" inside diameter every two feet. This link will allow for a sliding pinch bar through the link to pick the chain, more than once, if necessary, at multiple intervals during pump removal and installation. The minimum chain length shall be the wetwell depth plus 6 feet.

2.03 DISCHARGE PIPING

- A. Piping shall be Schedule 80 PVC meeting ASTM 1785. Size and end connections shall be as shown on **Drawings** and plum horizontal and vertical.

2.04 JUNCTION BOX

- A. A junction box shall be installed as shown on the top of the wetwell as shown on the **Drawings**. The junction box shall be constructed of stainless steel and be located outside of the wet well for maintenance. Connections for the pumps shall be from the bottom of the junction box and each pump shall have a minimum 2" connection and each float switch shall have a dedicated connection through a 2" conduit. Junction box to be no less than 6" x 6".
- B. Wires running between the control panel and the junction box shall be color coded and fastened to the pump and level controls by means of an adequately sized and insulated twist lock or crimp connectors. Conduit from the control panel to the junction box will be completely seals with silicon non-shrink sealant.

2.05 LEVEL CONTROLS

- A. Float switches shall be installed for high water alarm, lag pump on, lead pump on, and pumps off. A light shall come on and stay illuminated until manually reset, if the high-level float becomes activated.
- B. Wet well level shall be controlled by float controls with sealed mercury tube switches. Cord connection controls shall be SJO flexible cord.
- C. Floats shall be attached to a stainless steel three position float control level bracket that is anchored near the top of the wet well allowing floats to be adjusted without entering the wet well. Float wires shall be continuous to the junction box.

2.06 ELECTRICAL CONTROL PANELS – GENERAL

- A. All panels shall be in a NEMA 4X enclosure for outdoor use and box cover shall have a hasp for lock.
- B. Panel shall be mounted, as shown on the detail plans.
- C. Panels shall have incoming voltage, as listed in this specification. A control transformer shall be supplied in all panels for control circuits and alarm circuit. Control circuit and alarm shall be 115 VAC.

2.07 DUPLEX CONTROL PANEL

- A. A duplex panel shall be furnished and shall include a main circuit breaker for each pump, a magnetic contactor with quick trip ambient compensated overloaded block, main circuit breaker for alarm and control circuit, separate auxiliary circuit breakers for alarm and control circuits, yellow run light for each pump, H-O-A switch for each pump, red seal failure for each pump, over temperature of motor windings to interrupt starter circuit and stop motor with automatic reset, a terminal strip for connecting pump and control leads, alarm switch for on-off and test, outside flashing red alarm light, alternator relay to alternate pumps on each successive cycle and override circuit to start both pumps if level rises in wetwell or to start the second pump if lead pump fails. If both pumps are called to start at one time there shall be a time delay for starting the lag pump so the pumps do not start at one time. An alarm circuit shall be provided to indicate a high-water condition in the wetwell.

2.08 CONTROL PANEL OPTIONS

- A. Elapsed time meter for each pump.
- B. NEMA 4X enclosure.
- C. Separate terminals for remote alarms.
- D. 25-watt heater strip to prevent condensation.
- E. High water alarm control.
- F. Duplex 115 VAC utility outlet.
- G. Alarm light to utilize Xenon strobe for daytime visibility. Mounted on Control Panel.
- H. Alarm Horn with silencer.
- I. Lightning arrestor – Rated at 650 volts RMS L-G.

2.09 INSTRUCTIONS AND LABELS

- A. All panel boxes shall include a schematic wiring diagram displayed in cover of box. All terminals shall be clearly labeled with proper designation. Overload heater chart shall be displayed in box cover or heaters shall be listed on the ***Drawing***.

2.10 PRECAST REINFORCED CONCRETE MANHOLE SECTIONS

- A. Manhole sections: ASTM C478 except cement shall be Portland cement per ASTM C150; joints between sections shall be sealed against leakage and infiltration with mastic or rubber gaskets.

2.11 WET WELL PENETRATION SEALS

- A. Flexible watertight gasket or waterstop; Press Wedge by Press-Seal Gasket Corp.; A-Loc Seal by A-Lok Corp.; Concrete Manhole Adapter by Fernco; or equal.
- B. Non-shrink grout: Embeco 167 Mortar by Master Builders; Thorite by Standard Dry Wall Products, Inc.; Non-Shrink Grout by SET Products, Inc.; or equal.

2.12 ACCESS HATCH

- A. The wet well shall have an access hatch furnished as shown on the **Drawings**. The hatch shall be as follows:
 - 1. Wet Well Hatch: Halliday Products Model No. R1R48.

- B. The R1R (single leaf) series access frames and covers as manufactured by Halliday Products, Inc. of Orlando, Florida shall have a 1/4" (7mm) thick one-piece, mill finish, extruded aluminum frame. A bituminous coating shall be applied to the frame exterior where it will come in contact with concrete. Door panel shall be 1/4" (7mm) aluminum diamond plate, reinforced to withstand a live load of 300 lbs. psf (1464 kg. psm). Doors shall open to 90 degrees and automatically lock with a T-316 stainless steel hold open arm with aluminum release handle. For ease of operation, the hold open arm shall incorporate an enclosed stainless steel compression spring assist. Doors shall close flush with the frame and rest on a built-in neoprene cushion/gasket. Hinges and all fastening hardware shall be T-316 stainless steel. Unit shall lock with a T-316 stainless steel slam lock with removable key and have a non-corrosive handle. Unit shall carry a lifetime guarantee against defects in material and/or workmanship.

2.13 PIPING

- A. PVC Pipe: Schedule 80 (ASTM D1785), socket type Schedule 80 fittings, (ASTM D2467), material class 12454-A or B (ASTM D1784) and solvent cements (ASTM D2564, ASTM F656).

2.14 VALVES:

- A. Check Valves shall be the same size as the pipe they are installed in and shall be flanged full-flow swing check valve with outside lever and spring meeting AWWA C508 and shall be designed for use with wastewater. Valmatic 7800LS, or equal.
- B. Shut-off valves shall be of Schedule 80 PVC construction unless shown otherwise.

2.15 CRUSHED ROCK UNDER STRUCTURES

- A. Rock shall be clean and free draining.

2.16 ELECTRICAL

- A. Shall be as shown on the ***Drawings*** and under the Electrical Work for the project.

2.17 VALVE VAULT AND LID

- A. Meter box shall be 36" D x 36" H PVC, as show on ***Drawings***.
- B. Lid shall be cast-iron with 36" x 18" adapter ring and 18" inner flat lid.

PART 3 EXECUTION

3.01 CONSTRUCTION

- A. Construct sewage pump station improvements and appurtenant facilities where and as shown on the ***Drawings*** and in accordance with manufacturer's instructions and recommendations. Earthwork shall be in accordance with Section 31 05 00 – **Earthwork**; Concrete work shall be in accordance with **Concrete** section.

3.02 INSTALLATION

- A. After assembly and installation on the concrete foundations, each pump shall be plumbed, aligned, and wedged in place but not grouted until after the initial fitting and alignment of connecting piping.
- B. The base elbow shall be grouted in place with non-shrink grout.
- C. Installation shall be completed in a timely manner. The control panel shall be installed and operational prior to taking the existing lift station out of service.

3.03 EARTHWORK

- A. Earthwork shall be in accordance with Section 31 05 00 – **Earthwork**.

3.04 CONNECTIONS TO EXISTING PIPING

- A. The connections to the existing manhole shall be as shown on the ***Drawings***.

END OF SECTION

SECTION 33 34 00

SEWAGE FORCE MAIN**PART 1 GENERAL**

1.01 SUBMITTALS

- A. Prior to procurement, submit for review manufacturer's product specifications and performance data for each system component, including pipe, fittings, valves, hydrants, and other accessories, in sufficient detail to demonstrate compliance with these Specifications and compatibility with other components.

1.02 HANDLING AND STORAGE

- A. Handle and store pipe, fitting, valves, hydrants, and other accessories so as to prevent damage to or deterioration of shells, coatings, linings, internals, connectors, seals, and other parts.
 - 1. Components shall not be dropped or subjected to unnecessary jarring or impact.
 - 2. Hooks, slings, and other handling equipment shall provide sufficient bearing areas or padding to prevent contact surface damage.
 - 3. Valves, hydrants, and similar components shall be kept drained before installation to prevent damage due to freezing of trapped water.
- B. Keep interiors of pipe, fittings, valves, hydrants, and other accessories clean and free of dirt or other foreign matter at all times.
- C. Minimize hauling and re-handling during component distribution by unloading components at or very near respective installation locations.

PART 2 PRODUCTS

2.01 PIPE

- A. HDPE Pipe:
 - 1. Trenched and Bored Pipe.
 - a. AWWA C906: IPS Meeting PE4710.
 - b. DR11, Pressure Class 200 psi.
 - c. Thermal Butt Fusion or Electrofusion connections and joint.
 - d. Coil Length: 300' or 500'.

2.02 FITTINGS

- A. HDPE to PVC adapter: Connect HDPE to PVC with a butt fusion IPS HDPE to IPS adapter, Poly-Cam Series 730, or Equal.
- B. Electrofusion Branch Saddle: HDPE branch saddle, 200 PSI rated for use with SDR 11-17 HDPE. IPS sized, as manufactured by Integrity Fusion Products, or equal.

2.03 TRACER WIRE

- A. Tracer Wire: Copper-Clad Steel (CCS) with solid steel core; No. 12 AWG minimum conductor employing HMWPE with a 45-mil min average thickness, and a minimum thickness at any point of 42 mils. Copper cladding shall account for 3% of total conductor diameter. Surface marking on the wire shall be ink-printed, indent-printed, or embossed on the outer surface of the cable at 24 in. or shorter intervals with the following: (1) Manufacturer's Identification – Listee's name or File "E98017" or trade name, (2) Voltage Rating: 30v or 600v (3) AWG size, (4) "(UL)" or "UL" and (5) Tracer Wire. The tracer wire shall be manufactured to ASTM and/or UL Specifications. Tracer wire shall be Kris-Tech Wire Co., Copperhead, or approved equal.

Tracer wire for Horizontal Directional Drilling: No. 12 AWG ProTrace HDD-CCS PE45, 12 AWG Copperhead Soloshot EHS, or approved equal tracer wire intended for horizontal directional drilling installation.

- B. Connectors and Splices: All connection and splices shall be made with 3M Direct Bury DBY-6 splice kits, or approved equal. No aluminum will be allowed. Test stations shall be installed as shown on the **Drawings**. At each test station, the tracer wire shall be connected to a 1 lb. zinc or magnesium anode.
- C. Pedestal style test station: Test stations shall be Rhino Cathodic Protection Tri View Flex Test Station or approved equal, The Tri View marker shall have internal test leads, be triangular in shape with each side at least 3" wide, 66" long, be buried 18" deep, and be blue in color. The marker shall have two decals that state "WARNING WATER PIPELINE" and show the 811 logo. All test stations shall be sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be installed to allow 10 inches of wire within the test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the "as-built" drawings. To be furnished and installed by contractor as shown on the **Drawings**.
- D. Color of test station shall correspond to type of utility being located. Blue = Waterline, Green = Wastewater, Yellow = Gas line.
- E. The anodes shall be 1 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to the tracer wire at each test station. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline.
- F. The Contractor shall perform a locate or conductivity test on the tracer wire to verify it is working properly prior to acceptance of project.

2.04 DETECTABLE TAPE

- A. Detectable Tape: Detectable tape shall be installed above all buried piping, except piping installed beneath structures or by boring or tunneling operations. Tape shall consist of one layer of aluminum foil laminated between inert plastic films, shall be 3 inches (minimum) wide by 4.3 mils (minimum) thick, and shall be continuously imprinted with a warning message "SEWER LINE BELOW" (or similar) every 16 to 36 inches.

2.05 VALVES AND APPURTENANT EQUIPMENT

- A. A.R.I Model D-025 Combination Air Valve for wastewater, or equal; short body; 2" NPT connection; composite body.

PART 3 EXECUTION

3.01 EARTHWORK

- A. Earthwork for water distribution system installation shall be in accordance with Section 31 05 00 – **Earthwork**.
1. Provide depth of cover over pipe and service lines as shown on the **Drawings**. Cover shall be measured from finished grade to the top of the pipe barrel.
 2. Remove ledge rock, boulders, and large stones from trench bottoms to provide uniform support and bedding conditions. In unstable or unsuitable materials, Additional Excavation and refill work shall be as directed by Engineer.

3. Compact and grade bedding to provide uniform longitudinal support under pipe and fittings. Excavate holes for bells, flanges, and other protrusions sufficient to prevent contact with sub-grade.
4. Deposit and compact pipe embedment under and around each side of pipe simultaneously and sufficient to prevent displacement during subsequent jointing and backfilling operations. If position adjustment is required for a length of pipe after laying, remove and re-lay such pipe as for new pipe.
5. Backfill material and compaction requirements shall be as shown on the ***Drawings***. Backfill beneath paving, gravel surfacing, drives, walks, curb/gutter, and other surface improvements or construction shall be compacted for the full depth of the trench or excavation. The top 6 inches of backfill beneath established grassed areas shall be material equivalent to or better than that underlying adjoining grassed areas.

3.02 INSTALLATION

- A. Pipe and Service Lines: Lay to and maintain at prescribed lines and grades.
 1. Maintain a minimum horizontal distance of 10 feet between water mains, sanitary sewer manholes, sanitary sewer mains, and sanitary sewer service lines, and between service lines and building sewers, wherever such lines are laid parallel to each other. Measurements are to be made from edge to edge.
 2. Where a water main or service line crosses a sanitary sewer, if the sewer is not a minimum of 2 feet (clear) below the water line, encase or replace the sewer line as shown on the ***Drawings*** or established by the Engineer in accordance with state regulation and approval.
 3. Maintain a minimum horizontal distance of 25 feet between water lines, including service lines, and any source of pollution, such as septic tanks, absorption fields, waste stabilization ponds, feedlots, and other industrial, commercial, or individual sources of waste or pollution.
- B. Fittings, Valves, Hydrants, and Accessories: Install at required locations with valve and hydrant stems plumb. Center and plumb valve boxes over operating nuts, and maintain box covers flush with finished grades. Care shall be taken to clear weep hole of fire hydrant from all construction debris, concrete, or any other material blocking the weep hole.
- C. Clean interiors of pipe and system components of dirt and foreign matter prior to lowering into the trench, and maintain such condition throughout installation. When pipe laying is not in progress, keep open ends of installed pipe and system components suitably closed to prevent entrance of trench water, dirt, and other foreign matter.
- D. Use proper equipment and methods to lower and place pipe and system components in the trench to prevent damage: do not drop or dump pipe or system components into the trench.
- E. Joint pipe and system components in accordance with manufacturer's recommendations. Clean gaskets and joint surfaces thoroughly, and inspect for damage or deformation. Lubricate joint surfaces per manufacturer's instructions. Lubricant used for pipe joints is to be NSF 61 product certified. Assemble joints by hand or by bar and block methods; use mechanical equipment only at the direction of the manufacturer. Do not swing or stab the joint.
- F. Install thrust blocking at bends, tees, crosses, and wyes. Thrust blocking shall be as shown on the ***Drawings***, and concrete shall be in accordance with **Concrete** specification.
- G. Insulator Casing Seals shall be installed as per manufacturer's recommendations using the manufacturer's installation tool.

3.03 TESTING

A. Pressure Test:

1. Pressure test all pipe and system component joints at a minimum pressure of 100 psi, or 150% of working pressure in the line, whichever is greater, for a minimum duration of 1 hour. The test pressure will not be allowed to fall below 125% of normal operating pressure at the highest point of each section being tested.
2. Conduct pressure tests in the presence of Engineer.
3. Provide accurate means to measure water pressure in the line. Measured water pressure may not vary by more than 5 psi during the duration of the test.
4. If pressure test fails, any damaged or defective pipe, fittings, valves, hydrants, or joints shall be repaired or replaced and the pressure test repeated until satisfactory results are obtained.

B. Leakage Test:

1. The specified test pressure for the leakage test is the same as for the pressure test above but test shall be conducted for minimum of 2 hours.
2. Conduct leakage tests in the presence of Engineer.
3. Provide accurate means to measure the quantity of water pumped into the main being tested. Examples, such as calibrated make-up reservoir, calibrated positive-displacement pump, or a water meter. Leakage is the quantity of water that must be supplied into the main in order to maintain the water pressure within 5 psi of the specified test pressure after the pipe has been filled with water and air expelled.
4. Leakage during the pressure test shall not exceed the allowable leakage calculated from:

where: L=allowable leakage, gal/hr
 D=pipe diameter, inches
 P=test pressure, psi
 S=length of pipe tested, feet

$$L = \frac{SDP^{0.5}}{148,000}$$

5. If leakage test fails, any damaged or defective pipe, fittings, valves, hydrants, or joints shall be repaired or replaced and the leakage test repeated until satisfactory results are obtained.

C. Simultaneous Leakage/Pressure Test:

1. The system shall be allowed to stabilize at the test pressure before conducting the combined pressure/leakage test.
2. Conduct simultaneous Leakage/Pressure tests in the presence of Engineer.
3. The combined pressure/leakage test pressure must hold the water pressure specified for the pressure test above, for 2 hours prior to pumping water into the main being tested for the leakage part of the simultaneous test.

END OF SECTION

ANTHONY MUNICIPAL AIRPORT ANTHONY, KS



KANSAS AIRPORT IMPROVEMENT PROGRAM FY 23 SEPTEMBER 2021

Prepared By





596 Airport Rd.
Goodland, KS 67735

September 13, 2021

Kansas Department of Transportation
Division of Aviation
700 SW Harrison
Topeka, KS 66603-3754

On behalf of the City of Anthony, we are pleased to submit this FY23 Grant Application for the Kansas Airport Improvement Program for the Anthony Municipal Airport. Please consider this application for FY23 funding.

If you have any further questions, please contact me at (785) 821-1040 or by email at DarinN@ebhengineering.com.

Sincerely,

A handwritten signature in black ink that reads "Darin Neufeld". The signature is fluid and cursive, with the first name "Darin" and last name "Neufeld" clearly distinguishable.

Darin Neufeld, PE
EBH & Associates

Attachments:
Anthony Municipal Airport Application

The City has received KDOT Aviation grants in the past. Each grant has been utilized in a timely, efficient manner to take full advantage of not only the KDOT Aviation grant funds, but also the local match.

KDOT Aviation has entrusted the City of Anthony with these multiple grant opportunities. Each time, the City has acted swiftly and responsibly to provide the local and state aviation system with the best possible outcome. The next evolutionary step for the airport is to add the means to provide pilots with the reliability for ground conditions. The City is requesting the support once again to assist the local and regional aircraft community.

Kansas Airport Improvement Program (KAIP) Application Form

Submittal Date 9-22-21

Indicate by checking the corresponding box below for (See KAIP Guidelines for information on these categories):

- a) Regular Grant Application the application is to be considered);
- b) Current Year Out of Cycle Application
- c) Emergency Grant Application

Check One

☒ **FY 2023** FY 2023 begins July 1, 2022

☐ **CURRENT YEAR OUT OF CYCLE**

☐ **EMERGENCY**

Applicant/Sponsor: City of Anthony

Airport Identifier: ANY

Project Category: ☐ Preservation ☐ Modernization ☒ Equipment ☐ Design/Planning

See KAIP Program Guidelines for category descriptions

Project Description (Use additional sheets as necessary):

Install AWOS tower and equipment and Beacon with tower on ANY.

280,500.00

Total Project Costs.....\$_____

We understand that if the project is approved, the Kansas Department of Transportation will participate in the project cost at the rate identified in the KAIP Program Guidelines as published on the KDOT Aviation website (<http://www.ksdot.org/divAviation>), not to exceed \$800,000 of state funds (\$1,600,000 for new primary runways; \$1,200,000 for full-depth reconstruction of existing primary runway). The Sponsor will be responsible for letting the contract for bids and supervising construction. Construction engineering is an eligible cost on construction contracts. Design is not an eligible cost except through a separate design grant.

Sponsor's Contact Person Cyndra Kastens Title City Administrator

Address P.O. Box 504, 124 S Bluff Anthony, KS 67003

Phone 620-842-5960 Fax _____ E-mail CKastens@AnthonyKansas.org

Sponsor's Signature _____ Title City Administrator

~ Additional information attached ~

AWOS

9/13/2021

OPINION OF PROBABLE COST

Item	Quantity		Unit Price		Total
Mobilization	1	LS	\$ 20,000.00	ea	\$ 20,000.00
Tower	1	LS	\$ 50,000.00	ea	\$ 50,000.00
AWOS Equipment	1	LS	\$ 115,000.00	ea	\$ 115,000.00
Beacon	1	LS	\$ 25,000.00	ea	\$ 25,000.00
Beacon Tower	1	LS	\$ 15,000.00	ea	\$ 15,000.00
Electrical work	1	LS	\$ 30,000.00	ea	\$ 30,000.00

Total Construction		\$ 255,000.00
Construction Inspection	10%	\$ 25,500.00
Total Project		\$ 280,500.00
KDOT Grant	90%	\$ 252,500.00
City Share	10%	\$ 28,000.00

ORDINANCE NO. S-303**AN ORDINANCE AUTHORIZING FIRE FIGHTING SERVICE BY THE ANTHONY FIRE DEPARTMENT IN A CERTAIN TOWNSHIP IN HARPER COUNTY, KANSAS, AND ENTERING INTO A CONTRACT BETWEEN THE CITY OF ANTHONY AND TOWNSHIP #2 FOR SAID SERVICE AND CAPITAL IMPROVEMENTS.****BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF ANTHONY, KANSAS:**

Section 1. That the following contract be and the same is hereby approved, and the Mayor and the City Clerk of Anthony are authorized and directed to execute said contract and agreement for and on behalf of said City.

AGREEMENT

THIS AGREEMENT made and entered into this 21st day of September, 2021, by and between the City of Anthony, Kansas, Party of the First Part and Township #2, Harper County, Kansas, Party of the Second Part,

Witnesseth:

WHEREAS, Party of the First Part is a municipal corporation duly organized and existing under and by virtue of the laws of the State of Kansas, being located in Harper County, Kansas, and having a duly organized and established fire department with various firefighting equipment; and,

WHEREAS, Party of the Second Part is a public corporation duly organized and existing under and by virtue of the laws of the State of Kansas, having no organized and established fire department or firefighting service within said township;

WHEREAS, it is the desire of the parties hereto that Party of the First Part shall furnish to Party of the Second Part, firefighting services for which Second Party will pay a charge and assist First Party with certain capital improvements upon the terms and conditions hereinafter set forth;

That the Fire Chief of the said city of Anthony or any person acting in his stead shall have the right in every case to determine whether the said City of Anthony can spare all or any portion of its fire equipment and firemen at the particular time when a call is received for firefighting service to be rendered on any property located within said township #2.

That the said City of Anthony shall not be liable in any way for failure of the fire department to attend a fire, or to put out a fire, or for any other reason, but the department, subject to K.S.A. 80-1502 et seq, shall make a reasonable effort (road and weather conditions permitting) to attend such fire. The road and weather conditions may be such that the fire run can be made with reasonable safety and the judgment of the Fire Chief of said City of Anthony, shall be final in such matter.

NOW, THEREFORE, in consideration of Party of the Second Part paying to Party of the first Part, the sum of \$9,702.00 by November 1 of each year, at the office of the Anthony City Clerk, Anthony, Kansas, said party of the First Part agrees to furnish firefighting services to said Party of the Second Part and the occupants and property located therein pursuant to the provisions of K.S.A. 80-1502 et seq, which is by reference made a part hereof as though specifically written in full herein. This contract shall before a term of three (3) years and said payment for

firefighting services shall be negotiated by the parties herein on an annual basis during the three (3) year term of this contract. In the event that over 20 fire runs are made during any one year of this contract, Party of the Second Party agrees to pay for any additional runs, the amount of \$250.00 per run. Party of the First Part agrees to defer payment on any additional runs until funds are legally available by levy to the Party of the Second Part.

As a further consideration herein, and to help provide more extensive fire protection for Township #2, Party of the Second part agrees to furnish funds for certain capital improvements to the firefighting equipment and fire station improvement of Party of the first Part, pursuant to K.S.A. 80-1502 et seq, for a period of three (3) years at the rate of \$4,158.00 payable each year on or before November 1 at the office of the Anthony City Clerk, Anthony, Kansas.

It is specifically understood and agreed that Party of the First Part agrees to furnish and Party of the Second Part is contracting for improved firefighting service only, and Second Party shall have no right, title or interest in and to any of the firefighting equipment now owned, or hereafter acquired, by said First Party.

This Ordinance repeals Ordinance NO. S-290. This Ordinance takes affect after publication in the Official City of Anthony paper and on January 1, 2022.

IN WITNESS WHEREOF, The Governing Body of the City of Anthony, has by ordinance authorized this agreement to be signed by its Mayor and attested by its City Clerk and Township Board, of Township #2, has by resolution authorized this agreement to be signed by its Township Trustee and attested by its Township Treasurer, we have hereunto subscribed our names the day and year first above written.

THE CITY OF ANTHONY, KANSAS

Greg Cleveland, Mayor

ATTEST:

Cyndra Kastens, City Clerk/Administrator

TOWNSHIP #2, HARPER COUNTY, KANSAS

Geraldine Hughbanks, Trustee

ATTEST:

LeAnn Koblitz, Township Treasurer

SEAL

ORDINANCE NO. S-304

AN ORDINANCE AUTHORIZING FIRE FIGHTING SERVICE BY THE ANTHONY FIRE DEPARTMENT IN A CERTAIN TOWNSHIP IN HARPER COUNTY, KANSAS, AND ENTERING INTO A CONTRACT BETWEEN THE CITY OF ANTHONY AND TOWNSHIP #3 FOR SAID SERVICE AND CAPITAL IMPROVEMENTS.

BE IT ORDAINED BY THE GOVERNING BODY FOF THE CITY OF ANTHONY, KANSAS:

Section 1. That the following contract be and the same is hereby approved, and the Mayor and the City Clerk of Anthony are authorized and directed to execute said contract and agreement for and on behalf of said City.

AGREEMENT

THIS AGREEMENT made and entered into this 21st day of September, 2021, by and between the City of Anthony, Kansas, Party of the First Part and Township #3, Harper County, Kansas, Party of the Second Part,

Witnesseth:

WHEREAS, Party of the First Part is a municipal corporation duly organized and existing under and by virtue of the laws of the State of Kansas, being located in Harper County, Kansas, and having a duly organized and established fire department with various firefighting equipment; and ,

WHEREAS, Party of the Second Part is a public corporation duly organized and existing under and by virtue of the laws of the State of Kansas, being located in Harper County, Kansas, and having a duly organized and established fire department of firefighting service within said township;

WHEREAS, It is the desire of the parties here to that Party of the First Part shall furnish to Party of the Second Part, firefighting services for which Second Party will pay a charge and assist First Party with certain capital improvements upon the terms and conditions hereinafter set forth;

That the Fire Chief of the said City of Anthony or any person acting in his stead shall have the right in every case to determine whether the said City of Anthony can spare all or any portion of its fire equipment and firemen at the particular time when a call is received for firefighting service to be rendered on any property located within said Township #3.

That the said City of Anthony shall not be liable in any way for failure of the fire department to attend a fire, or to put out a fire, or for any other reason, but the department, subject to K.S.A. 90-1502 et seq, shall make a reasonable effort (road and weather conditions permitting) to attend such fire. The road and weather conditions may be such that the fire run can be made with reasonable safety and the judgment of the Fire Chief of said City of Anthony, shall be final in such matter.

NOW, THEREFORE, in consideration of Party of the Second Part paying to Party of the First Part, the sum of \$11,088.00 by November 1 of each year, at the office of the Anthony City Clerk, Anthony, Kansas said Party of the First Part agrees to furnish firefighting services to said Party of the Second Part and the occupants and property located therein pursuant to the provisions of K.S.A. 80-1502 et seq, which is by reference made a part hereof as though specifically written in full herein. This contract shall be negotiated by the parties herein on an annual basis during the three (3) year term of this contract. In the event that over 40 fire runs are made during any one year of

this contract, Party of the Second Part agrees to pay for any additional runs, the amount of \$250.00 per run. Party of the first Part agrees to defer payment on any additional runs until funds are legally available by levy to the Party of the Second Part.

As a further consideration herein, and to help provide more extensive fire protection for Township #3, Party of the Second Part agrees to furnish funds for certain capital improvements to the firefighting equipment and fire station improvement of Party of the First Part, pursuant to K.S.A. 80-1502 et seq, for a period of three (3) years at the rate of \$4,752.00 payable each year on or before November 1 at the office of the Anthony City Clerk, Anthony, Kansas.

It is specifically understood and agreed that Party of the First Part agrees to furnish and Party of the Second Part is contracting for improved firefighting service only, and Second Party shall have no right, title or interest in and to any of the firefighting equipment now owned, or hereafter acquired, by said first Party.

This Ordinance repeals Ordinance NO. S-291. This Ordinance takes affect after publication in the Official City of Anthony paper and on January 1, 2022.

IN WITNESS WHEREOF, the Governing Body of the City of Anthony, has by ordinance authorized this agreement to be signed by its Mayor and attested by its City Clerk and Township Board, of Township #3, has by resolution authorized this agreement to be signed by its Township Trustee and attested by its Township Treasurer, we have hereunto subscribed our names the day and year first above written.

THE CITY OF ANTHONY, KANSAS

Greg Cleveland, Mayor

ATTEST:

Cyndra Kastens, City Clerk/Administrator

TOWNSHIP #3, HARPER COUNTY, KANSAS

Charles Seipel, Trustee

ATTEST:

Joel Walker, Township Treasurer

SEAL:

ORDINANCE NO. S-305

**AN ORDINANCE AUTHORIZING FIRE FIGHTING SERVICE BY THE ANTHONY
FIRE DEPARTMENT IN A CERTAIN TOWNSHIP IN HARPER COUNTY, KANSAS, AND ENTERING INTO A CONTRACT
BETWEEN THE CITY OF ANTHONY AND TOWNSHIP #4 FOR SAID SERVICE AND CAPITAL IMPROVEMENTS.**

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF ANTHONY, KANSAS:

Section 1. That the following contract be and the same is hereby approved and the Mayor and the City Clerk of Anthony are authorized and directed to execute said contract and agreement for and on behalf of said City.

A G R E E M E N T

THIS AGREEMENT made and entered into this 21st day of September, 2021, by and between the City of Anthony, Kansas, Party of the First Part and Township #4, Harper County, Kansas, Party of the Second Part,

Witnesseth:

WHEREAS, Party of the First Part is a municipal corporation duly organized and existing under and by virtue of the laws of the State of Kansas, being located in Harper County, Kansas, and having a duly organized and established fire department with various firefighting equipment; and,

WHEREAS, Party of the Second Part is a public corporation duly organized and existing under and by virtue of the laws of the State of Kansas, having no organized and established fire department of firefighting service within said township;

WHEREAS, it is the desire of the parties hereto that Party of the First Part shall furnish to Party of the Second Part, firefighting services for which Second Part will pay a charge and assist First Party with certain capital improvements upon the terms and conditions hereinafter set forth;

That the Fire Chief of the said City of Anthony or any person acting in his stead shall have the right in every case to determine whether the said City of Anthony can spare all or any portion of its fire equipment and firemen at the particular time when a call is received for firefighting service to be rendered on any property located within said Township #4.

That the said City of Anthony shall not be liable in any way for failure of the fire department to attend a fire, or to put out a fire, or for any other reason, but the department, subject to K.S.A. 80-1502 et seq, shall make a reasonable effort (road and weather conditions permitting) to attend such fire. The road and weather conditions may be such that the fire run can be made with reasonable safety and the judgment of the Fire Chief of said City of Anthony, shall be final in such matter.

NOW, THEREFORE, in consideration of Party of the Second Part paying to Party of the First Part, the sum of \$6,930.00 by November 1 of each year, at the office of the Anthony City Clerk, Anthony, Kansas, said Party of the First Part agrees to furnish firefighting services to said Party of the Second Part and the occupants and property located therein pursuant to the provisions of K.S.A. 80-1502 et seq, which is by reference made a part hereof as though specifically written in full herein. This contract shall be for a term of three (3) years and said payment for firefighting services shall be negotiated by the parties herein on an annual basis during the 3- year term of the contract. In the event that over 10 fire runs are made during any one year of this contact, Party of the Second Part agrees to pay for any additional runs, the amount of \$250.00 per run. Party of the First Part agrees to defer payment on any additional runs until funds are legally available by levy to the Party of the Second Part.

As a further consideration herein, and to help provide more extensive fire protection for Township #4, Party of the Second Part agrees to furnish funds for certain capital improvements to the firefighting equipment and fire station improvement of Party of the First Part, pursuant to K.S.A. 80-1502 et seq, for a period of three (3) years at the rate of \$2,970.00 payable each year on or before November 1st at the office of the Anthony City Clerk, Anthony, Kansas.

It is specifically understood and agreed that Party of the First Part agrees to furnish and Party of the Second Part is contracting for improved firefighting service only, and Second Party shall have no right, title or interest in and to any of the firefighting equipment now owned, or hereafter acquired, by said First Party.

This Ordinance repeals Ordinance NO. S-292. This Ordinance takes affect after publication in the Official City of Anthony paper and on January 1, 2022.

IN WHITNESS WHEREOF, the Governing Body of the City of Anthony, has by ordinance authorized this agreement to be assigned by its Mayor and attested by its City Clerk and Township Board, of Township #4, has by resolution authorized this agreement to be signed by its Township Trustee and attested by its Township Treasurer, we have hereunto subscribed our names the day and year first above written.

THE CITY OF ANTHONY, KANSAS

Greg Cleveland, Mayor

ATTEST:

Cyndra Kastens, City Clerk

TOWNSHIP #4, HARPER COUNTY,
KANSAS

Sherry Struble, Trustee

ATTEST:

Carol Peterson, Township Treasurer

SEAL:

ORDER

Item 17.

DATE: September 21, 2021

TO: Rozi, Jabbar
730 N. Bluff Ave
Anthony, KS 67003

RE: 730 N. Bluff, Anthony, KS

LEGAL: Part of the Southwest Quarter Beginning at the Northeast Corner of Block Five (5) in West Highland Addition, Thence North Eighty-one (81) ft, Thence West One Hundred Fifty (150) ft, Thence South Eighty-one (81) ft, Thence East One Hundred Fifty (150) to the Place of Beginning, Section Twenty-four (24) in Township Thirty-three (33) Range Seven (7), in West Highland Addition, in the City of Anthony, Harper County, Kansas.

You are hereby notified that Chapter VII, Article 2, of the Anthony City Code provides for the abatement of Health Nuisance and the assessing of the expense thereof. Enclosed is a copy of the City Code for Health Nuisance.

FINDINGS OF FACT

X Rozi Jabbar is in violation of Chapter VII, Article 2, of Anthony City Code.

X Rozi Jabbar is ordered to abate the health nuisance within 10 Days of the receipt of this order.

X You have 10 days from date of receipt of the Order to request a hearing before the Governing Body.

This is to notify you that you are ordered to clear the property of all health nuisances, including but not limited to: **old carpet, storm door, wood, metal, and all other debris.**

Failure to abate the condition(s) or to request a Hearing, within the time allowed may result in prosecution or subject to procedure as provided in Section 7-207 and/or abatement of the condition(s). In the event the City abates or removes the health nuisance, said costs shall be paid by: **Rozi, Jabbar, 730 N. Bluff Ave, Anthony, KS 67003.**

The cost incurred by the City shall be charged against the Lot or Lots or parcel of ground on which the nuisance or nuisances were located. The City Clerk shall, at the time of certifying other taxes to the County Clerk certify the cost as provided and the County Clerk shall extend the same on the tax roll and it shall be collected by the County Treasurer and paid to the City as other city taxes are collected and paid.

Gregory L. Cleveland, Mayor
City of Anthony

Enclosures:

Date

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To: City Commissioners
From: Cyndra Kastens

Re: City Clerk/Administrator Report
9/21/21

CHS Homecoming Parade Friday September 24th at 10:00 a.m. in Anthony.

Harper County Health Foundation Annual Meeting September 28th 6:00 p.m. @ Municipal Hall.
 Need to RSVP if you would like to attend: Call Erin 620.842.5599

CONSENT AGENDA

2. Regular Meeting Minutes September 7, 2021
3. Special Appropriations -
 - Fund# 32 Spec. Parks & Rec - Liberty Flags \$492.00 American Flags
 - Fund# 34 Capital Airport - EBH \$5,550.26 Relocation and Demolition
4. Appropriation Ordinance No. 6096 \$250,727.78
5. Approve 09.14.2021 Payroll \$51,863.48
6. KDOT Cost Share Grant Application \$1,483,598.00 (match \$271,719.60)

The Cost-Share application has been prepared as guided by the Commission. We did remove the recommended blocks and upped the match to 20%. The attachments show the bulk of the application but not the entirety as the app is completed online. If you would like a copy of the entire application, please let me know.

REGULAR BUSINESS

7. CHS STUCO Requesting to Hold Homecoming Dance at Mun. Hall and Waive Fees - Rhyan Marhsall

The Homecoming dance is supposed to be this Saturday, September 25th but Chaparral will be having their sewer line replaced and there will be no water on at the school. STUCO needs to find an alternate location. Rhyan Marshall will be here to ask if they can have it at the Hall, to waive the fees, and to allow them to decorate the night before (Friday).

8. Update on Dangerous Structure 112 S Jennings

Tim Elliott called on September 10th and asked about specifics for building demolition in the City of Anthony. He was obtaining quotes from contractors to perform the demolition. After that, Mr. Forsyth called Brandon and indicated they believe the timeline for demolition of the building is beginning October 1st and weather permitting to be finished on October 15th. As you are all aware now, further update indicated that the name of the owner on the resolution was not current and therefore, we will no longer be holding a public hearing at this commission meeting. I will leave it on the agenda as an opportunity for the commission to discuss the issue if you would like.

To: City Commissioners
From: Cyndra Kastens

Re: City Clerk/Administrator Report
9/21/21

9. RV Dump Station Plans and KDHE Permit

The plans and specs to apply for the KDHE permit for the RV dump station are enclosed for your review. The Commission will need to approve the plans and specifications to submit to KDHE. Mike has noted on the plans and cover letter provisions for a future bathhouse and campsite sewer connection, so this should not be a surprise to KDHE when we request to add those in the future. Mike also planned on the city designing and installing the electrical service for the pump station, so he didn't include a lot of detail on that aspect. The pump supplier will supply the pump control panel, but the meter, double throw disconnect, and wiring will need to be completed as part of this project and are not included here FYI. Mike also noted that costs have increased faster than any time he has seen before and that if the city is concerned about pricing, it may be smart to send the plans and specs to the suppliers (Core & Main/Ray Lindsay Co/McPherson Concrete Products) and have them quote all the materials for today's prices. I will get with Terry and Jerry on that. Reminder, the costs of all projects are going up right now, please remember that since we committed Lake Maintenance Reimbursement funds to pay for this project. Just keep that in mind for now, we will see how things progress.

10. RV Dump Station Approval to Submit Bids for Materials

11. KAIP KDOT Application for Airport AWOS and Beacon \$280,500.00 (match \$28,000)

If you will recall, replacing the AWOS is on the Capital Improvement Plan for the airport. AWOS stands for Automated Weather Observing Station. AWOS is controlled by the FAA and will report ceiling and sky conditions, visibility, temperature, dew point, altimeter setting and wind speed, gusts and direction specifically at the airport. This will allow pilots to have this information in real time and was the top of the list of priorities from our airport board. It is not ranked number one on our CIP because we knew FAA would not fund it. This grant provides an opportunity to possibly get funding for the project as KDOT does include AWOS systems as fundable items. We just through the beacon in just because it is a smaller item and needs to be included somewhere. Remember, no decision has officially been mad as to whether we would replace the whole beacon or just the components. We funded a whole beacon in the application but will take the time to make specific decisions once we know whether we even got funding or not, if the Commission approves submission of the app. A copy is in the packet.

12. Approve Twp #2 Rural Fire Contract - Ordinance S-303

Three- year renewal. No changes.

13. Approve Twp #3 Rural Fire Contract - Ordinance S-304

Three- year renewal. No changes.

14. Approve Twp #4 Rural Fire Contract - Ordinance S-305

Three- year renewal. No changes.

15. Request to Borrow Chairs from Municipal Hall - Kenny Hodson, Jr.

To: City Commissioners
From: Cyndra Kastens

Re: City Clerk/Administrator Report
9/21/21

16. Approve Bid for Purchase of 2,100 gallons Av Gas

We are down to just under 1900 gallons in the airport fuel tank. We need to refill and this year it does appear we will go over budget with this approval by \$1,366.68. We budgeted \$20,000.00. I'm not sure this will carry us through January either. We will see. We do have the funds to cover this overage and we have to have fuel so; we are pretty limited on choice.

17. Health Nuisance 730 N. Bluff Rozi 2021

Admin's Report:

1. CCLIP South Jennings Project – The small area of concern on the South Jennings project has been determined to fall within acceptable tolerance on KDOT's requirements. Therefore, that project is officially complete.
2. Harper County Emergency Operations Plan – Had a meeting with Chris Cintron and Tiffany Hartson to assist the county with their required updates to the HP CO EOP. I will review the responsibilities of the City of Anthony to note if any changes or additions need to be incorporated.
3. Harper County Creatives Commission – Had another meeting with the HP CO Creatives Commission as local artists continue their mission of creating a logo for rebranding our communities. Some neat headway is being made in these meetings. Draft logos are being presented at the next Creatives Commission meeting on October 3rd to review. We also had a representative from a marketing company come this past Sunday when we met at Gallery Mostaza in Harper to help utilize his skills to help us home in on direction and creativity. It's getting exciting.
4. Anthony Lake Board – The Anthony Lake Board met on September 13th. They are preparing data and a map to attend the October 5th City Commission meeting to request approval to start work on the walking trail that will go all the way around the lake.
5. ID/Economic Development Board – This Board also met on September 13th. Shelly Hansel was asked to attend to talk about coordinated efforts of her role with the county and participation with the ID/Eco Devo efforts of Anthony.
6. PRIDE Street Dance – During the street dance, a brick pillar at the Wayne Dennis parking lot was knocked over and broke. No one was injured, a police report was taken. The PRIDE committee did have event insurance. Since then, we had a quote from a masonry contractor, PRIDE asked the City to move forward with hiring the contractor and the pillar has been fixed. It will require replacement of the cap and that had to be ordered. In addition, I ordered

To: City Commissioners
From: Cyndra Kastens

Re: City Clerk/Administrator Report
9/21/21

(at the city's cost) two additional caps for other pillars so they would all match. They were \$65 each.

7. Department Activities:

Street – No report.

Water/WW – Cleaned out salt tank at water plant

Water sample E Main

Repaired water leak N Lincoln

Unloaded salt at water plant

Locates

Mowing at lake

Trimming at lake

Cleaned air conditioner at sewer plant

Cleaned lift stations

Safety meeting

Repaired water leak S Springfield

Repaired water leak S Jennings

Repaired water tower lift station

Repaired radio at water plant

Plumbing inspection

2 Electrical inspections

2 Gas inspections

Deck inspection

Framing inspection

Working with the Iron Man race at the lake

Electric Distribution -

Set temporary power pole at 725 N. Anthony for construction

Sent out quote to Harmoni Tower for new electric service at 124 NE 10 RD

Sent out quote to Lance Mathes for new electric service at 70 SW 20 RD

Worked on south east rural and south west rural line maintenance

Installed additional outlets at Wayne Dennis parking lot

Replaced PAPI bulbs and fuses at airport

Put up American Flags for Labor Day

Took down American flags and put up Chaparral flags

Reported that Jerome Reeves had turned on his power to 322 N. Mass

Cut down and hauled off trees in the ROW 8 miles east and 2 miles south

Strung new wire and tied in the south half mile of primary wire, 8 miles east and 2 miles south

Set 3 down guy anchors 8 miles east and 2 miles south

Installed 2 new outlets at the west park

Had an outage on west rural feeder. Cause is unknown

To: City Commissioners
From: Cyndra Kastens

Re: City Clerk/Administrator Report
9/21/21

Put up Welcome flags and American flags for 9/11
Had an outage at 1145 N. Jennings. Cause was from wildlife
Replaced GFI outlet at Wayne Dennis parking lot
Turn On, Off Orders
Just Reads
Locates

Electric Production – No report.

Mechanic – Service #11. Repair issues with drivetrain and A/C
Replace siren box on #53 fire truck.
Service #5, deal with smell issues.
Replace mower blades.
Service #83 police pickup and repair radar.
Put old police car back together and make ready to become the new airport car.

To: Anthony City Commission

Re: Chief of Police report

From: Kenny Hodson

Date: 09-21-2021

Inspected some properties

Served some papers

We arrested Carlos Castillo on a warrant out of California

We investigated a criminal threat case and turned it over to the CA for possible charges

Took a burglary report in the 700 block of E. Oak

We had a very nice Balloon fest weekend