

ASR Pipeline Cathodic Protection System Replacement Solicitation Number: CO-00619 Job No.: 22-8602

ADDENDUM 2 October 26, 2023

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

1. Question: On sheets CP-1 – CP-3 (44-46) of the plans, we have TEST STATION NO. – STATION NUMBER – PIPE DIAMETER – ACTION TYPE – ACTION REQUIRED – TEST STATION TYPE – STRUCTURES – DETAIL REFERENCES followed by APPROXIMATE COVER DEPTH. It is our understanding that we are to perform all items described in the DETAIL REFERENCE column. Is this correct?

Response: The Contractor is responsible for completing the work in the "Action Required" column of the schedules on sheets CP1-CP3 in accordance with the full description of the test station schedule. The Detail Reference Column provides relevant details for installation.

2. Question: Does SAWS anticipate the use of any Multiple Foreign Line Test Stations. I do not see any called out within the schedule.

Response: The Cathodic Protection test station schedule identifies two multiple foreign pipeline test stations for Segment VI on drawing number CP-3.

- 3. Question: Does SAWS have GPS points for the exact location of all Isolation Joints? If so, please provide.

 Response: The 2019 Cathodic Protection System Survey Report, referenced in Special Condition SC1, indicates the GPS
 - locations of all originally installed test stations. Additionally, the GPS coordinates of originally installed test stations can be found in the Record Drawings for each Segment. The record drawings will be shared with the successful bidder after bid award.
- 4. Question: Page 44 of CO_00619_ASR CP System Replacement Plan SS, TS 50 reads, "REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION AND INSTALL COUPON," but page 15 on "(E) TS #50" it makes no mention of repairs.

Response: It is understood this question applies to drawing number CP-1. Test Station #50 will not be modified under this project. Please refer to "Changes to the Plans", item 4 in this Addendum.

5. Question: Page 44 of CO_00619_ASR CP System Replacement Plan SS, TS 89 reads, "REPLACE UNLOCATED FLUSH-MOUNT TEST STATION WITH NEW POST MOUNTED TEST STATION," but page 19 of the same document reads "TS #89 – REPLACE EX. TS WITH POST-MOUNTED IJTS." Do we know if the test station is unlocated or located?

Response: It is understood this question applies to drawing number P-10. This test station was not located in the 2019 survey. Please refer to "Changes to the Plans", item 1 in this Addendum.

6. Question: Page 24 of CO_00619_ASR CP System Replacement Plan SS, shows TS #31 is to receive replacement anodes, but on page 45 of the same document Segment 5 does not call out test station #31 in the Cathodic Protection Schedule.

Response: It is understood this question pertains to drawing number P-14. The callout for Test Station #31 on the plan sheets should read Test Station #30. TS #30 should be replaced with a flush mounted IJTS as indicated on drawing P-14. Replacement anodes are not required for TS #30. Please refer to "Changes to the Plans", item 3 in this Addendum.

7. Question: In CO_001619_ASR CP System Replacement Plan SS, on the Test Station Schedules, specifically pages 44, 45, and 46. The word "Unlocated" is used along with the word "Replace". Is the Contractor to assume that these test stations are there, but have not been located? If they cannot be located or do not exist, what would be the next step?

Response: It is understood this question pertains to drawings number CP-1 through CP-3. "Unlocated" indicates that these test stations were installed as part of the original Cathodic Protection system, but are historically unlocated during previous annual surveys. The unlocated test stations require replacement of the test station housing and test leads at the location of the original test station as described in note 3 of the referenced Cathodic Protection Test Station Schedule drawings.

8. Question: Several mentions of "Install new Flush Mounted FPTS with all components (if buried foreign pipe Is metallic)". What is the direction if the line is non-metallic?

Response: It is understood this question pertains to drawings number CP-1 through CP-3. If it is determined that the foreign pipeline is non-metallic, then that associated flush mounted FPTS with all components is not required. This is mentioned on the applicable plan drawings for each of the test stations in question. Please refer to Note 3 on drawing number P-4 for one example.

9. Question: Is Flowable Fill Required or acceptable in the street?

Response: The City of San Antonio Standard for Construction allows flowable fill as an approved backfill in the street as described in document item 413.

10. Question: Will the street excavation have to be covered or backfilled over night?

Response: The City of San Antonio Standard for Construction requires street excavations to be covered overnight per document item Part 3, 3.01 K 1.

11. Question: Do the streets require Mill & Overley? No Line Item.

Response: The City of San Antonio Standard for Construction does require mill and overlay of the streets per document item 208.3 B.

12. Question: Will ROW Permits be obtained by SAWS or the GC?

Response: The Contractor shall obtain all necessary permits to complete the project work, including the ROW permit (see SAWS Solicitation No. CO-00619 Contract Documents 01 11 00 Section 1.06). The exception to this is the Union Pacific Railroad maintenance agreement, which has already been obtained by SAWS and a copy of this agreement is included in the contract documents.

13. Question: Is there Liquidated Damages for this project?

Response: Yes. SAWS Solicitation No. CO-00619 Contract Documents Supplemental Conditions Article VIII identifies liquid damages of \$1,300 per day.

CHANGES TO THE SPECIFICATIONS

1. Bid Proposal

Remove the Bid Proposal in its entirety and replace with the attached revised Bid Proposal. Bidders shall use the revised Bid Proposal when submitting a bid for this project. Failure to use the revised version may result in the bid being found non-responsive.

Clarification: The Bid Proposal is revised in this Addendum to add a line item for private property and debris relocation.

2. Special Conditions

REMOVE and REPLACE the Special Conditions in its entirety with the attached Special Conditions.

Clarification: The Special Conditions is revised in this Addendum to add a special condition pertaining to the relocation of private property and debris removal.

3. Section 01 29 00 Payment Procedures

ADD the following after Item No. 17:

"Item No. 18: Relocation of Private Property and Debris within SAWS Water Line Easement

- Description This item shall include all labor, equipment, tools, materials and incidentals required to
 complete the relocation of private property and debris within the water line easement prior to construction.
 This includes, but is not limited to, relocation of trees, brush, abandoned vehicles, boats, and any other
 various property items uncovered or found within SAWS easement for the complete in place water main
 cathodic protection and stray current interference installation. This is limited to Segment IV between STA
 273+30 and STA 293+30.
- 2. Measurement Measurement of Item No. 18 will be lump sum.
- 3. Payment of the full price shall be paid for the work performed and in accordance with the Schedule of Values. Payment shall constitute full compensation to the Contractor for furnishing all: labor, equipment, tools, and materials; and for performing all operations required to furnish to the Owner this item, as specified and as indicated in the Contract Drawings and Specifications."

REVISE:

"Item No. 18: CPS Energy Allowance" to be "Item No. 19: CPS Energy Allowance"

REVISE:

"Item No. 19: Permit Allowance" to be "Item No. 20: Permit Allowance"

CHANGES TO THE PLANS

1. Sheet P-10 - Segment IV Plan (STA 254+00 to 282+00)

REMOVE and REPLACE in its entirety with attached Sheet P-10.

2. Sheet P-11 - Segment IV Plan (STA 282+00 to 296+81)

REMOVE and REPLACE in its entirety with attached Sheet P-11.

3. Sheet P-14 – Segment V Plan (STA 69+00 to 98+00)

REMOVE and REPLACE in its entirety with attached Sheet P-14.

4. Sheet CP-1 – Segment IV Cathodic Protection Schedule (Sheet 1 of 3)

REMOVE and REPLACE in its entirety with attached Sheet CP-1.

END OF ADDENDUM

This Addendum, including these four (4) pages, is sixteen (16) pages with attachments in its entirety. Attachments:

- Bid Proposal (4 pages)
- Special Conditions (4 pages)
- Drawing Number P-10 Segment IV Plan (STA 254+00 to 282+00) (1page)
- Drawing Number P-11 Segment IV Plan (STA 282+00 to 296+81) (1page)
- Drawing Number P-14 Segment V Plan (STA 69+00 to 98+00) (1page)
- Drawing Number CP-1—Segment IV Cathodic Protection Schedule (Sheet 1 of 3) (1 page)

Christopher L. Sheldon

V&A Consulting Engineers, Inc.



SAWS Job No. 22-8602 Solicitation No. CO-00619

BID PROPOSAL

PR	ROPOSAL OF		_, a corporation
	partnership consisting of		
an	n individual doing businessas		
Pu as	HE SAN ANTONIO WATER SYSTEM: ursuant to Instructions and Invitation to Bidde s specified and perform the work required for pecifications for the following prices in the bid	or the project as specified, in accordance	
PL	LEASE SEE ATTACHED LIST OF PRICE IT	TEMS.	
		BIDDER'S SIGNATURE AND TITLE	
		FIRM'S NAME (TYPE OR PRINT)	
		FIRM'S ADDRESS	
		FIRM'S PHONE NO. /FAX NO.	
		FIRM'S EMAIL ADDRESS	
	e Contractor herein acknowledges receipt of dendum No(s).		
	VNER RESERVES THE RIGHT TO ACCEPT		
and Pro	e Bidder offers to construct the Project in ac d to complete the Project within <u>412</u> calenda deceed. The Bidder understands and acce uidated damages of the project if not com	ar days after the start date, as set forth in the provisions of the contract Docu	the Authorization to
Com	mplete the additional requirements of the Bid Prop	posal which are included on the following pages	
Sta	atement on President's Executive Ord	ers	
Has prec	s your firm previously performed work subject to the ceding similar executive orders (Numbers 10925	ne President's Executive Orders Numbers 1124 and 11114)? Yes	6 and 11375 or any
Tex	xas Government Code Chapter 2274 Verif	ications	
(1)	Are you, Contractor, held or controlled by it or a country designated by the Governor Chapter 2274? Yes ☐ No ☐		
(2)	Are you, Contractor, held or controlled by a is owned or controlled by citizens of or directly Russia or a country designated by the Go Code Chapter 2274? Yes No	ectly controlled by the government of China	, Iran, North Korea
(3)	Are you, Contractor, headquartered in Chir Governor of the State of Texas pursuant to Yes \(\square\) No \(\square\)		designated by the

BID PROPOSAL LINE ITEMS

Item No.	Description	Unit	Quantity	Unit Price	Total Price
1	DEMOLITION	LS	1	\$	\$
2	SEGMENT IV DEEP ANODE WELL	LS	1	\$	\$
3	SEGMENT IV CATHODIC PROTECTION RECTIFIER AND ASSOCIATED ELECTRICAL WORK	LS	1	\$	\$
4	SEGMENT IV TEST STATION REHABILITATION	LS	1	\$	\$
5	SEGMENT V DEEP ANODE WELL	LS	1	\$	\$
6	SEGMENT V CATHODIC PROTECTION RECTIFIER AND ASSOCIATED ELECTRICAL WORK	LS	1	\$	\$
7	SEGMENT V TEST STATION REHABILITATION	LS	1	\$	\$
8	SEGMENT V AC MITIGATION DEEP WELL	LS	1	\$	\$
9	SEGMENT V AC MITIGATION SYSTEM	LS	3	\$	\$
10	SEGMENT VI DEEP ANODE WELL	LS	1	\$	\$
11	SEGMENT VI CATHODIC PROTECTION RECTIFIER AND ASSOCIATED ELECTRICAL WORK	EA	1	\$	\$

Item No.	Description	Unit	Quantity	Unit Price	Total Price
12	SEGMENT VI TEST STATION REHABILITATION	LS	1	\$	\$
13	SURFACE RESTORATION	LS	1	\$	\$
14	TRAFFIC CONTROL	LS	1	\$	\$
15	SYSTEM COMMISSIONING SURVEY	LS	1	\$	\$
16	ANNUAL AND QUARTERLY SYSTEM TESTING THROUGH TWO-YEAR CONSTRUCTION WARRANTY	LS	1	\$	\$
17	RIGHT-OF-WAY MOWING	LS	1	\$	\$
18	RELOCATION OF PRIVATE PROPERTY AND DEBRIS WITHIN SAWS WATER LINE EASEMENT	LS	1	\$	\$
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	4,500	\$	\$
SUBTOTAL (ITEN		MS 1 – 18, 550)		\$	
19	CPS ENERGY ALLOWANCE	ALW	1	\$ <u>12,000</u>	\$ <u>12,000</u>
20	PERMIT ALLOWANCE	ALW	1	\$ <u>30,000</u>	\$30,000
100	Mobilization and Demobilization, Max 5% of Subtotal Line Items 1 – 18 & 550	LS	1	\$	\$

SAWS Job No. 22-8602 Solicitation No. CO-00619

Item No.	Description	Unit	Quantity	Unit Price	Total Price
102	Intermediate Demobilization and Remobilization	EA	1	\$	\$
	SUBTOTAL (ITEMS 19, 20	\$			

Mobilization and demobilization lump sum bid shall be limited to a maximum 5% of the Line Item "A" Sub-total Base Bid amount. The Line Item "A" Sub-total base bid is defined as all bid items **EXCLUDING** Items 19, CPS Energy Allowance, 20, Permit Allowance, 100, Mobilization and Demobilization, and Item 102, Intermediate Demobilization and Remobilization. In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Demobilization and bid items the written percentage will govern. If the percentage written exceeds the allowable maximum stated for mobilization, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.

SUPPLEMENTARY UNIT PRICES:

Item No.	Description	Unit	Quantity	Unit Price	Total Price
S-1	FURNISH ALL MATERIALS, LABOR, EQUIPMENT, AND APPURTENANCES FOR "INSTALLING NEW INSULATING FLANGE KIT" COMPLETE IN PLACE	EA	1	\$	\$

TOTAL BID PRICE	
(TO INCLUDE LINE ITEMS 1-20, 100, 102,	\$
, , ,	
550, AND S-1)	

Special Conditions

SC1. The report from the most recent annual system survey of the existing galvanic anode cathodic protection systems for ASR Pipeline Segment 4-6 (2019) has been made available for CONTRACTORS for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the CONTRACTOR as a condition of and prior to the release of the report. To complete the disclaimer form and obtain the report, please go to the following link on SAWS website:

https://www.saws.org/business_center/ContractSol/

SC2. <u>Pre-bid Meeting and Site Visit</u>: The CONTRACTOR may visit the site on their own to verify the conditions pre-bid. No interaction with SAWS employees at the site shall be permitted.

SC4. Due to the limits of the provided easements and joint use agreements within the project site, the working space is restricted to the limits of the easements.

- a) Trench Materials and excavated spoils shall be contained within the easement provided.
- b) Other than the Limit of Construction indicated on the Plans, no designated Storage and Staging Area has been secured for the CONTRACTOR'S use. This does not preclude the CONTRACTOR from securing the use of property for this purpose, provided the use of such property is in conformance with the requirements of all local, state and federal requirements. The CONTRACTOR'S storage and staging areas shall be fenced, screened, secured and maintained in a neat, clean, dust-free, and sanitary condition at all times. Any stockpiled construction materials subject to erosion (dirt, gravely, sand, etc.) shall be covered, sandbagged, or otherwise protected with erosion control measures to prevent erosion and tracking such material onto adjacent streets, inlets or drains at no additional cost to SAWS. No material shall be stored within the 100-year floodplain. A copy of the agreement between the CONTRACTOR and Property Owner should be provided to SAWS and uploaded to CPMS.
- c) Temporary off-site storage of equipment and materials may be necessary; designated areas for storage of such equipment shall be coordinated and agreed upon with SAWS, when necessary, prior to placement of such equipment/material.

SC5. Within the Union Pacific Railroad Property, refer to the attached Maintenance Consent Letter dated August 25, 2023. Contractor should follow the guidelines required by Union Pacific Railroad per the following information.

- 1. Union Pacific Railroad (UPRR) Permit Application Number 2063903 and Project Number 0790139 (0655521) will need the following requirements met by the Contractor before Construction on UPRR property shall commence:
 - a. Contractor's Right of Entry Agreement (please refer to attached Maintenance Consent Letter Exhibit B) shall be executed by the Contractor in order to enter UPRR property and/or perform any Maintenance activities.

- b. In accordance with the terms of the Agreement, the Contractor is required to notify a Railroad approved flagger provided at the following link (http://www.up.com/flagging), Manager of Signal Maintenance, and visit the Telecommunications ("Call Before You Dig") website to complete the required form at least ten (10) days in advance of the date the Contractor plans on entering the right of way for further instructions and approval to commence construction.
- c. The Maintenance Consent Letter expires on August 25, 2024. The Contractor shall prioritize project work on the UPRR property to ensure completion of work and system testing before the expiration of the Maintenance Consent Letter.
- 2. The Contractor shall comply with insurance requirements set forth in the attached UPRR Maintenance Consent Letter Exhibit C.

SC6. The CONTRACTOR shall notify SAWS and the Consultant of anticipated work within TxDOT right-of-way at least 48 hours prior to any work within that TxDOT right-of-way.

SC8. The Contract Documents reflect the general location and routing for existing utilities near in the vicinity of the proposed rectifier locations for Segment 4-6 and along the proposed AC grounding cable alignments on Segment 5. The CONTRACTOR shall visit the site, meet with the local utility company representatives, and coordinate and confirm the requirements for securing and protecting utilities as required to install the proposed cathodic protection system improvements. It shall be the CONTRACTOR'S responsibility to locate existing utilities along Segments 4-6 as required for construction and to protect them during construction at no additional cost to SAWS. CONTRACTOR shall verify depth and location of existing utilities and all related appurtenances in advance of trenching. Prior to commencement of construction, CONTRACTOR shall submit a plan for the proposed methods and frequency of test holes for utility verification as required to complete the work. No separate payment will be made for utility verification required to complete the work. CONTRACTOR assumes all liability for any damage that may results in not properly or adequately locating and protecting existing utilities.

SC9. <u>Communication Protocol</u>: All communication from the SAWS Construction Inspector to the CONTRACTOR shall be through the CONTRACTOR'S Project Manager and/or Superintendent. Communication to/from the CONTRACTOR'S Subcontractors shall be routed to the SAWS Construction Inspector through the CONTRACTOR. Contact information for the SAWS Construction Inspector and the CONTRACTOR will be provided at the pre-construction conference.

SC10. Construction Phasing and Sequencing: The CONTRACTOR may follow the proposed construction sequencing in the Contract Documents. If the CONTRACTOR does not plan to follow the construction sequence included in the Contract Documents, the CONTRACTOR shall submit via CPMS the proposed alternative sequence of construction in writing to SAWS and the Consultant for review and approval. It is the CONTRACTOR'S responsibility to provide sufficient workforce, materials, and equipment to complete the work in accordance with the Contract duration.

SC11. Public Relations Contact Person: The CONTRACTOR shall direct any and all questions from the public or media regarding the project to SAWS Public Relations contact Byron Gipson (email: byron.gipson@saws.org; phone: 210-233-2977). The CONTRACTOR will coordinate with SAWS COI and the SAWS COI will coordinate with SAWS Public Relations contact person to provide a response to public inquiries.

SC12. Coordination with On-Site Personnel: The CONTRACTOR agrees to cooperate and coordinate its work with the work conducted by other supplier(s), CONTRACTOR(s) and/or SAWS Operations staff within the project area so that this project can be completed in an orderly and coordinated manner, reasonably free of significant disruption to any party. Without limitation of the foregoing, the CONTRACTOR understands and agrees that access areas to the project site may be utilized by other supplier(s) and/or CONTRACTOR(s). All parties shall be solely required and obligated to coordinate and cooperate with each other to accomplish the scope of work required by their respective contracts, meaning SAWS shall have no duty to administer, perform or supervise the coordination for the use of the project site by all suppliers/Contractors. The CONTRACTOR agrees that any delay or hindrance caused by or contributed to by failure to cooperate and/or coordinate among all parties will be governed by this Section and Security Procedures of this contract.

SC13. City of San Antonio (COSA) Pavement Restoration Standards:

The CONTRACTOR shall coordinate pavement restoration with the City of San Antonio (COSA) Right-of-Way Supervisor and shall adhere to the following COSA guidelines:

- 1. All final pavement restorations shall be made with a saw to straight and uniform lines and shall meet the following requirements:
 - a. Must be perpendicular and parallel to the curb line with no diagonals.
 - b. Must be of uniform width for its length producing a square or rectangular shape.
 - c. No patch shall be placed within an existing patch. Cuts within 2-ft of the curb shall be restored to the curb line or edge of the pavement. Any existing pavement markings that are removed or damaged during the execution of the CONTRACTOR'S work shall be replaced with thermoplastic as a condition to final acceptance.
- 2. Excavation that is proposed in a street and/or parkway and is classified as a Local/Residential area with a PCI below 85 will require normal trench restoration only. Work in the parkway shall be restored to its original or better condition. All final pavement cuts shall be made with a saw to straight and uniform lines. Trench restoration shall include resurfacing to a constant width equal to the widest part of the excavation plus 12 inches on each side.
 - a. Springfield Road from Wehman Drive to Old Seguin Road (Segment V) is considered a PCI below 85.
- 3. Excavation that is proposed in a street that is classified as a Residential street with a PCI rating above 86 should not be cut without additional pavement restoration. A 2-inch mill

& overlay for a minimum length of 50-lineal feet may be approved as a variance from the block-to-block requirement. The stability of the temporary surface repair shall be maintained until the final mill & overlay is performed. Work located within the parkway shall be restored to its original or better condition. However, final restoration limits can be determined by ROW Supervisor.

- a. Springfield Road from Corner Parkway to Wehman Drive (Segment V) is considered a PCI of 86 or better.
- b. Eagle Crest Boulevard (Segment VI) is considered a PCI of 86 or better.

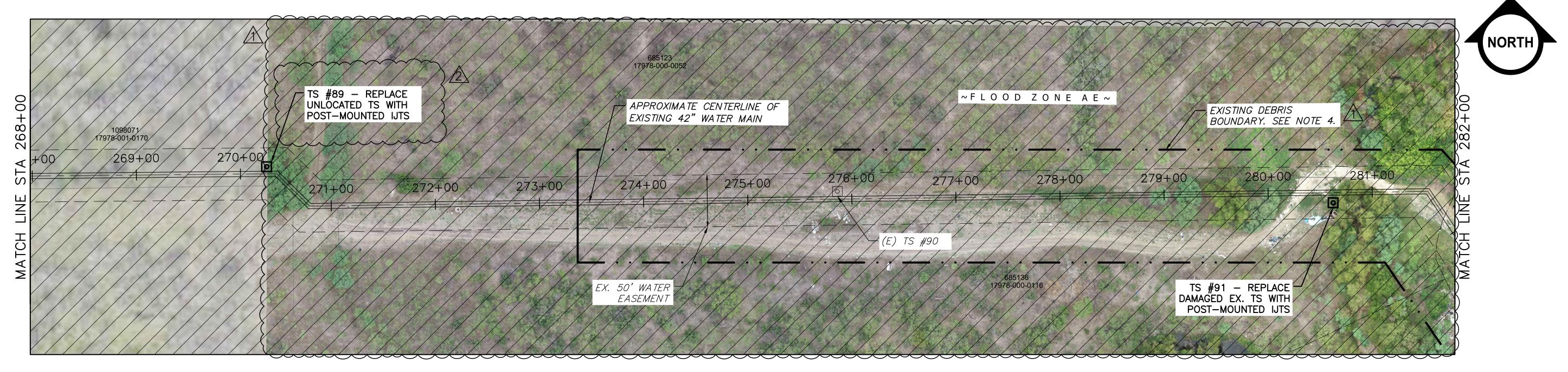


SC14. <u>Relocation of Private Property and Debris Within SAWS Water Line Easement Lump Sum Line Item:</u>

Contractor will be responsible for coordination with Property Owner at least 30 days in advance of mobilization or construction activities for all necessary relocation of private property and debris within water line easement prior to construction. The lump sum line item includes, but is not limited to, relocation of trees, brush, abandoned vehicles, boats and any other various property items uncovered or found within SAWS easement for a complete in place water main cathodic protection and stray current interference installation. This is limited to Segment IV between STA 273+30 and STA 293+30.

END OF SECTION

PLAN 9 - SEGMENT IV 254+00 TO 268+00



PLAN 9 - SEGMENT IV 268+00 TO 281+00

- 1. TEST STATION SYMBOL NTS
- 2. FLOOD ZONE DEPICTED ON THIS SHEET IS ZONE AE PER FEMA PANEL 4800450430G (EFFECTIVE SEPTEMBER 29, 2010) 3. EASEMENT DIMENSIONS SHOWN IN THESE PLANS ARE TAKEN FROM THE RECORD DRAWINGS (SEE GENERAL NOTE 1, SHEET
- N-1). CONTRACTOR SHALL VERIFY EXISTING EASEMENTS PRIOR TO STARTING PROJECT WORK. REFER TO SHEET N-2 FOR
- EXISTING EASEMENT DOCUMENTATION PROVIDED BY SAWS.

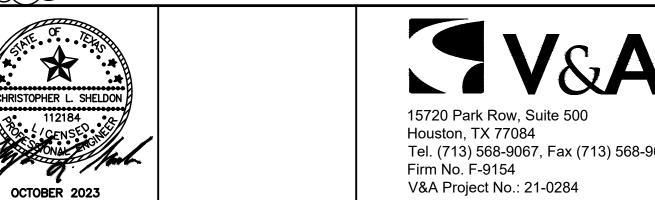
 4. EXISTING DEBRIS HAS ACCUMULATED ALONG THE PROJECT PIPE ALIGNMENT FROM APPROXIMATELY STA 273+30 TO STA

 293+30 IN AND AROUND THE SAWS EASEMENT. THE CONTRACTOR IS DIRECTED TO MOVE SAID DEBRIS OUT OF THE WORK THE PLANS. PROPOSAL.

250100 111 /110 /110011D 111E 5/110 E/10E/1		ION IS DINEOTED	TO MOVE SAME DEDIKES OUT	O1
AREA TO THE EDGE OF THE EASEMENT LIN	MITS AS REQUIRED TO	O COMPLETE THE	PROJECT WORK AS SHOWN	IN T
THE LEVEL OF EFFORT REQUIRED TO MOVE				
			$\sim\sim\sim\sim\sim\sim\sim$	<u> </u>
REVISIONS	0 25	50 100		

		REVISIONS	0 25 50 100			
ZONE	REV.	DESCRIPTION	BY	DATE	APP.	
	\triangle	ADDENDUM NO. 2	ET	10/23	cs	1"=50' (FULL)
	2	ADDENDUM NO. 2	ET	10/23	CS	1"=100' (HALF)
						JOB NO <u>21-0284</u>
						DRAWN ACR
						DESIGNED ACR
						CHECKED <u>CS</u>

	SUBMITTED:	
	DATE:	
	APPROVED:	
١	DATE:	
١	APPROVED:	
	DATE:	



	APPROVED
9068	FOR CONSTRUCTION

PROPERTY LEGEND

PROPERTY ID: XXXXXX

GEOGRAPHIC ID: XXXXX-XXX-XXXX

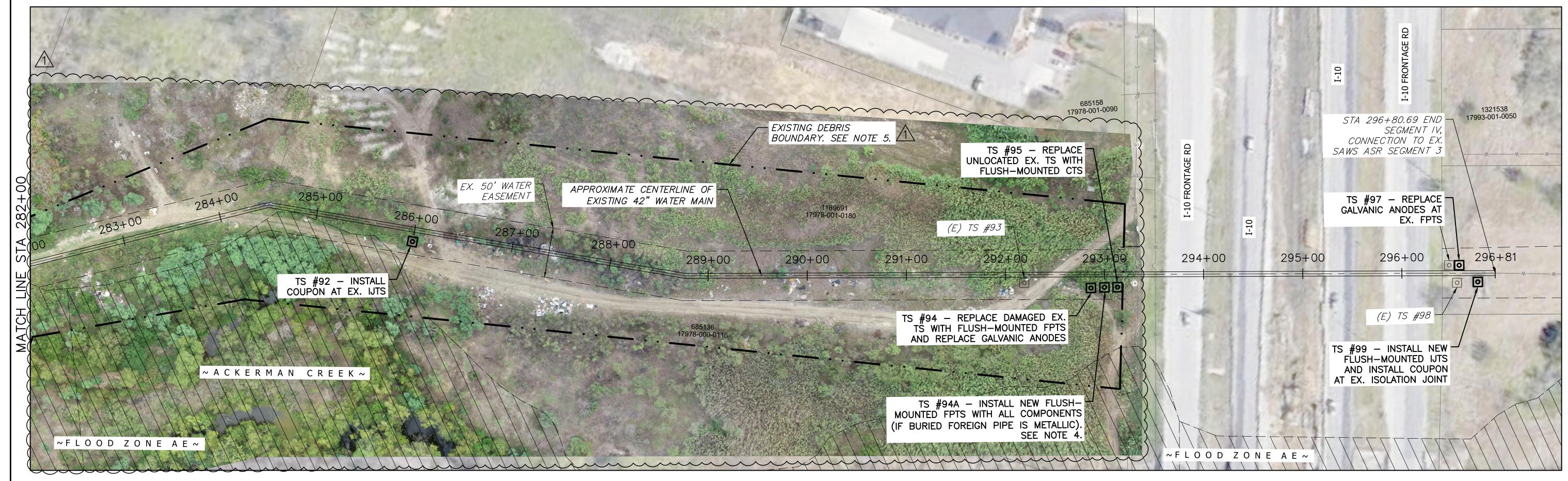
	ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	UNIT	QUANTITY				
8	FLUSH-MOUNTED TEST STATION REPLACMENT	EA	2				
9	POST-MOUNTED TEST STATION REPLACEMENT	EA	3				
13	COUPON INSTALLATION	EA	1				

(STA 254+00 TO 282+00)

COUPON INSTALLATION	EA	1
SAN ANTONIO WATER SYSTEM ASR PIPELINE CATHODIC PROTECTION SYSTEM REPLA		scale 1" = 50'
SEGMENT IV PLAN		DRAWING NUMBER P-10
		SHEET NUMBER

19 of 84





PLAN 11 - SEGMENT IV 282+00 TO 296+81

EXISTING EASEMENT DOCUMENTATION PROVIDED BY SAWS.

NOTE

- 1. TEST STATION SYMBOL NTS
- 2. FLOOD ZONE DEPICTED ON THIS SHEET IS ZONE AE PER FEMA PANEL 4800450430G (EFFECTIVE SEPTEMBER 29, 2010)
 3. EASEMENT DIMENSIONS SHOWN IN THESE PLANS ARE TAKEN FROM THE RECORD DRAWINGS (SEE GENERAL NOTE 1, SHEET N-1). CONTRACTOR SHALL VERIFY EXISTING EASEMENTS PRIOR TO STARTING PROJECT WORK. REFER TO SHEET N-2 FOR
- 4. THE CONTRACTOR SHALL PERFORM SUE WORK AT THIS LOCATION TO DETERMINE FOREIGN PIPE MATERIAL. THE COST OF EXCAVATION SHALL BE INCLUDED IN PROJECT COST. IF FOREIGN PIPE IS NON-METALLIC, NO TEST STATION SHALL BE
- INSTALLED

 5. EXISTING DEBRIS HAS ACCUMULATED ALONG THE PROJECT PIPE ALIGNMENT FROM APPROXIMATELY STA 273+30 TO STA 293+30 IN AND AROUND THE SAWS EASEMENT. THE CONTRACTOR IS DIRECTED TO MOVE SAID DEBRIS OUT OF THE WORK AREA TO THE EDGE OF THE EASEMENT LIMITS AS REQUIRED TO COMPLETE THE PROJECT WORK AS SHOWN IN THE PLANS. THE LEVEL OF EFFORT REQUIRED TO MOVE THE DEBRIS SHALL BE FULLY INCLUDED IN THE CONTRACTOR'S BID PROPOSAL.

PROPERTY LEGEND

PROPERTY ID: XXXXXX
GEOGRAPHIC ID: XXXXX-XXX-XXXX

ESTIMATED QUANTITIES							
ITEM NO.	DESCRIPTION	UNIT	QUANTITY				
8	FLUSH-MOUNTED TEST STATION REPLACEMENT	EA	2				
10	FLUSH-MOUNTED TEST STATION NEW CONSTRUCTION	EA	2				
12	REPLACING 2 GALVANIC ANODES AT EXISTING FPTS	EA	1				
13	COUPON INSTALLATION	EA	2				
		•					

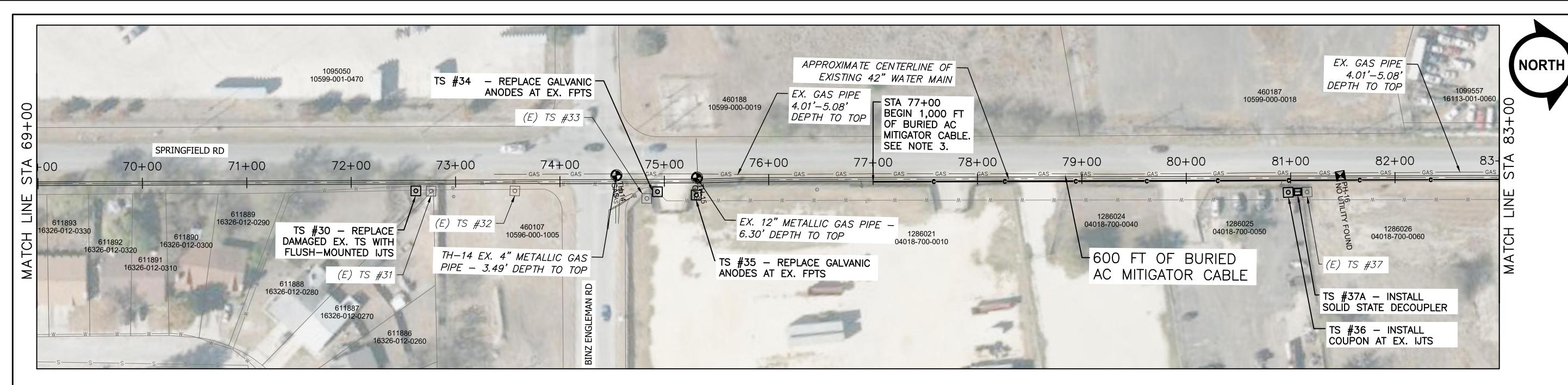
		REVISIONS	0 25	50 I		100 I			
ZONE	REV.	DESCRIPTION	BY	DATE	APP.				
	\triangle	ADDENDUM NO. 2	ET	10/23	CS	1'	'=50'((FULL) (HALF)	
						1"	=100'	(HALF)	
						JOB NO	21-028	4	
						DRAWN	ACR		
						DESIGNED	ACR		
						CHECKED	CS		

	 SUBMITTED:
	 DATE:
	 APPROVED:
	 DATE:
	 APPROVED:
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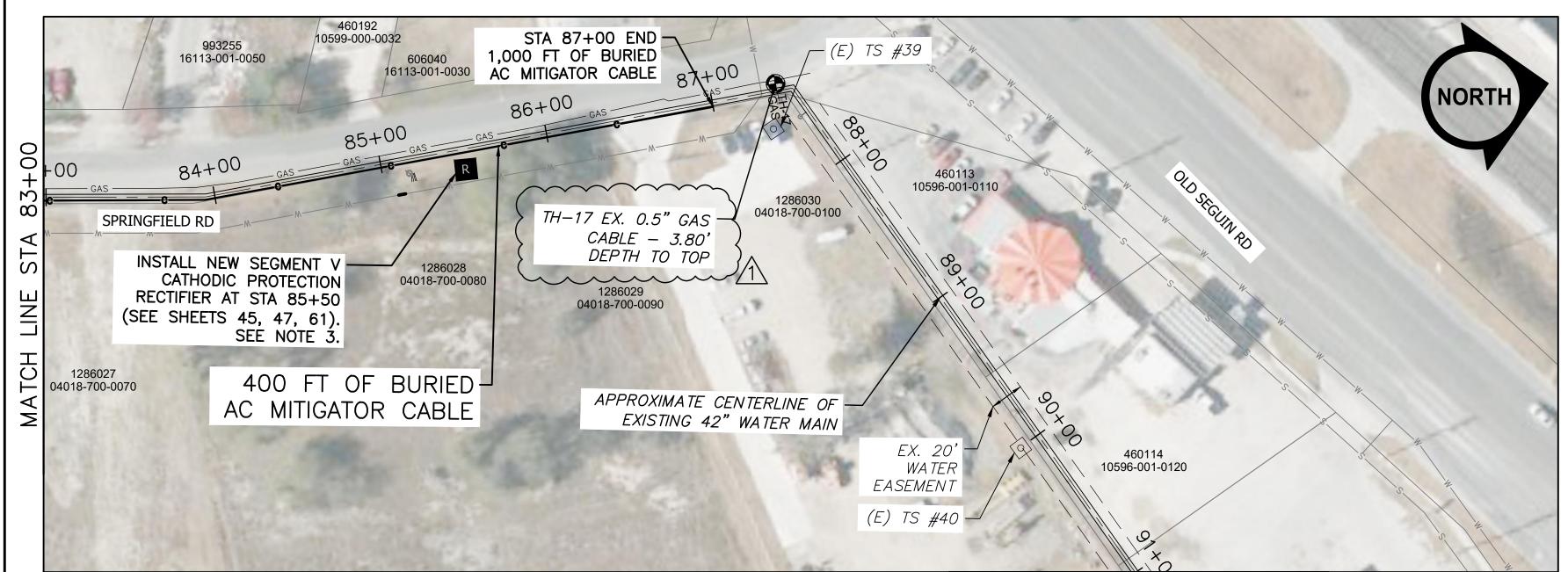
CHRISTOPHER L. SHELDON	3V&A
112184 COENSES ONAL	15720 Park Row, Suite 500 Houston, TX 77084 Tel. (713) 568-9067, Fax (713) 568-9068 Firm No. F-9154
OCTOBER 2023	V&A Project No.: 21-0284

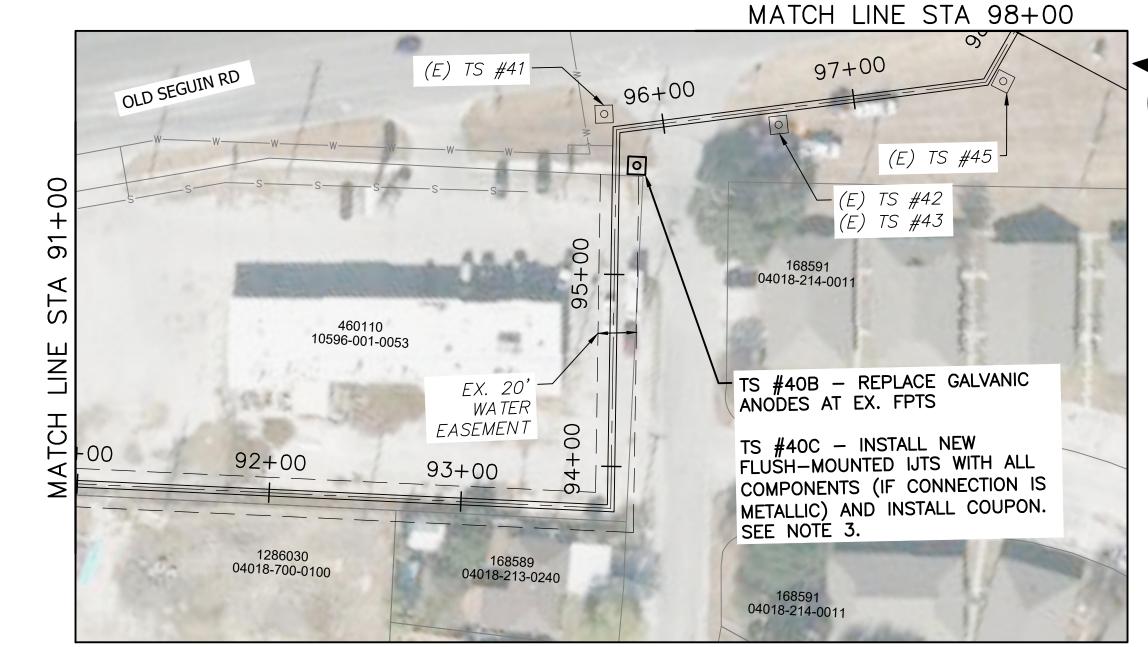
APPROVED
FOR CONSTRUCTION

	2		
	SAN ANTONIO WATER SYSTEM ASR PIPELINE CATHODIC PROTECTION SYSTEM REPLA	SCALE 1" = 50'	
	SEGMENT IV PLAN		DRAWING NUMBER P-11
	(STA 282+00 TO 296+81)		SHEET NUMBER



PLAN 14 - SEGMENT V 69+00 TO 83+00





PLAN 14 - SEGMENT V 83+00 TO 98+00

MATCH LINE STA 91+00

NOTES:

1. TEST STATION, RECTIFIER, SOLID STATE DECOUPLER, ELECTRICAL, VALVE, METER, MANHOLE, AND COMMUNICATION SYMBOLS NTS
2. EASEMENT DIMENSIONS SHOWN IN THESE PLANS ARE TAKEN FROM THE RECORD DRAWINGS (SEE GENERAL NOTE 1, SHEET N-1).
CONTRACTOR SHALL VERIFY EXISTING EASEMENTS PRIOR TO STARTING PROJECT WORK. REFER TO SHEET N-2 FOR EXISTING

EASEMENT DOCUMENTATION PROVIDED BY SAWS.

3. THE CONTRACTOR SHALL PERFORM SUE WORK AT THIS LOCATION AND ALONG THE LENGTH OF THE PROPOSED MITIGATOR CABLE TO DETERMINE FOREIGN PIPE MATERIAL OR LOCATION AND DEPTH OF EXISTING UTILITIES IN CONFLICT WITH THE PROPOSED MITIGATOR CABLE AND RECTIFIER. THE COST OF EXCAVATION SHALL BE INCLUDED IN PROJECT COST. IF FOREIGN PIPE IS NON-METALLIC, NO TEST STATION SHALL BE INSTALLED.

4. THE PAVEMENT CONDITION INDEX (PCI) OF SPRINGFIELD RD FROM STA 66+00 TO 88+00 IS LESS THAN 85. SEE SPECIAL CONDITION #13 FOR PAVEMENT RESTORATION STANDARDS.

		REVISIONS	0 25 L l	50 I	100 J			
ZONE	REV.	DESCRIPTION						
	\triangle	ADDENDUM NO. 2	ET	10/23	CS	1"=	=50' (FULL)	
						1"=	100' (HALF)	
						JOB NO	21-0284	
						DRAWN	ACR	
						DESIGNED	ACR	
						CHECKED	CS	

SUBMITTED:

DATE:

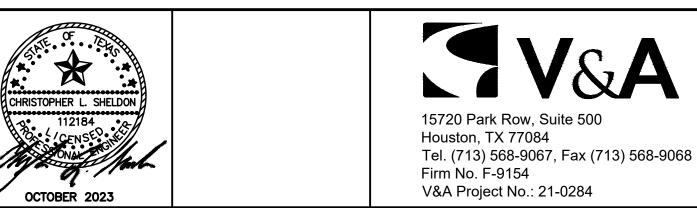
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APPROVED
FOR CONSTRUCTION

GEOGRAPHIC ID: XXXXX-XXX-XXXX

PROPERTY LEGEND

PROPERTY ID: XXXXXX

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	UNIT	QUANTITY			
14	SEGMENT V DEEP WELL ANODE BED	EA	1			
15	SEGMENT V RECTIFIER	EA	1			
16	FLUSH-MOUNTED TEST STATION REPLACEMENT	EA	1			
17	FLUSH-MOUNTED TEST STATION NEW CONSTRUCTION	EA	2			
18	REPLACING 2 GALVANIC ANODES AT EXISTING FPTS	EA	3			
19	COUPON INSTALLATION	EA	2			
21	AC MITIGATOR CABLE	LF	1,000			
22	SOLID STATE DECOUPLER	EA	1			

	1		
ASR PI	SAN ANTONIO WATER SYSTEI PELINE CATHODIC PROTECTION SYSTEM REPL		SCALE 1" = 50'
	SEGMENT V PLAN		DRAWING NUMBER P-14
	STA 69+00 TO 98+00))	SHEET NUMBER

NORTH

File: SAWS ASR SEGMENT 5 007 PLAN2 Date: 10/3/2023 6:09 PM Last Saved E

SEGMENT 4 IMPRESSED ANODE & RECTIFIER SCHEDULE										
PE MATERIAL	RECTIFIER NO.	ECTIFIER NO. STATION NO.	SIZE SIZE		ANO	DES	ANODE WELL DIA	ANODE WELL	STRUCTURE	DETAIL REFERENCE
			AMPS	VOLTS	NO.	TYPE	(INCHES)	DEPTH (FEET)	STRUCTURE	DETAIL REFERENCE

HIGH-SILICON

CAST IRON

(2284)

- 1. FOR THE REHABILITATION OF THE EXISTING TEST STATIONS, THE CONTRACTOR'S NACE CP4 CERTIFIED ENGINEER SHALL INTERPRET THE POTENTIALS MEASURED FOR EACH TEST LEAD TO DETERMINE IF THE TEST LEADS ARE INTACT AND FUNCTIONING AS INTENDED. THIS PROCESS ALSO APPLIES TO ISOLATION JOINTS TO VERIFY IF THEY ARE PROVIDING ELECTRICAL ISOLATION. ALL TEST RESULTS SHALL BE DOCUMENTED AND PROVIDED TO THE PROJECT ENGINEER. FUNCTIONAL TEST LEADS AND ISOLATION JOINTS CAN REMAIN IN SERVICE AS-IS. NON-FUNCTIONING TEST LEADS AND FAILED ISOLATION JOINTS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- 2. FOR REHABILITATION OF TEST STATIONS REQUIRING POSTS, SPLICES MAY BE REQUIRED TO EXTEND THE LEAD WIRES TO THE TERMINAL BOARD.
- 3. IF EXISTING TEST STATION CANNOT BE LOCATED BY CONTRACTOR FOR REHABILITATION, THE CONTRACTOR SHALL INSTALL A NEW TEST STATION WITH ALL COMPONENTS BASED ON THE SCHEDULE LOCATION AND TEST STATION TYPE.
- 4. CONTRACTOR SHALL COLLECT SOIL SAMPLES AT THREE LOCATIONS ALONG THE SEGMENT IV WATER TRANSMISSION MAIN FOR MICROBIOLOGICALLY INDUCED CORROSION (MIC) TESTING. THE TEST STATION LOCATIONS FOR SOIL SAMPLE COLLECTION ARE INDICATED IN THE MIC SOIL SAMPLES TABLE ON THIS SHEET. CONTRACTOR SHÁLL COLLECT APPROXIMATELY ONE QUART OF SOIL AT APPROXIMATELY PROJECT PIPE INVERT DEPTH. THE SAMPLES SHALL BE CONTAINED IN INDIVIDUAL RESEALABLE PLASTIC BAGS, LABELED WITH SAMPLE LOCATION AND DEPTH, AND SHIPPED TO THE ENGINEER FOR LABORATORY TESTING.

		1	1	SEGMENT 4 CATHODIC PROTECTION T	EST STATION SCHEDULE			
TEST STATION NO.	STATION NO.	PIPE DIAMETER (IN)	ACTION TYPE	ACTION REQUIRED	TEST STATION TYPE	STRUCTURES	DETAIL REFERENCE	APPROXIMATE COVER DEPTH (FT)
1	10+12	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION AND INSTALL COUPON	FLUSH-MOUNTED INSULATING JOINT TEST STATION WITH COUPON	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND EXISTING 42" WATER LINE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
3	10+60	42	REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT	EX. 8" GAS LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11)	25
9	34+79	42	REPLACEMENT	INSTALL COUPON AT EXISTING TEST STATION	COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
12	46+75	42	REPLACEMENT	REPLACE SUNKEN FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION AND INSTALL COUPON	FLUSH-MOUNTED INSULATING JOINT TEST STATION WITH COUPON	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
13	57+19	42	REPLACEMENT	INSTALL COUPON AT EXISTING TEST STATION	COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
14	57+70	42	REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT	EX. 8" GAS LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11)	15
19	72+12	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION AND INSTALL COUPON	FLUSH-MOUNTED INSULATING JOINT TEST STATION WITH COUPON	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	6
21	77+52	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW POST-MOUNTED TEST STATION AND INSTALL COUPON	POST-MOUNTED CASING TEST STATION WITH COUPON	CASING WEST END	4/CP-5, 3/CP-9, 4/CP-9, 3/CP-13, 5/CP-13, 6/CP-13	15
22	77+82	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW POST-MOUNTED TEST STATION	POST-MOUNTED CASING TEST STATION	CASING EAST END	4/CP-5, 3/CP-8, 4/CP-8, 3/CP-13, 5/CP-13	15
23	81+80	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW POST-MOUNTED TEST STATION	POST-MOUNTED CASING TEST STATION	CASING WEST END	4/CP-5, 3/CP-8, 4/CP-8, 3/CP-13, 5/CP-13	15
24	82+50	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW POST-MOUNTED TEST STATION	POST-MOUNTED CASING TEST STATION	CASING EAST END	4/CP-5, 3/CP-8, 4/CP-8, 3/CP-13, 5/CP-13	15
25	82+55	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW POST-MOUNTED TEST STATION AND INSTALL COUPON	POST-MOUNTED INSULATING JOINT TEST STATION WITH COUPON	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE	4/CP-5, 3/CP-7, 4/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	15
25A	89+89	42	NEW CONSTRUCTION	INSTALL ALL COMPONENTS OF THE POST-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE)	POST-MOUNTED FOREIGN PIPELINE TEST STATION	EX. 16" WATER	4/CP-5, 3/CP-10, 1/CP-11, 2/CP-11, 3/CP-13, 5/CP-13	8
25B	90+07	42	NEW CONSTRUCTION	INSTALL ALL COMPONENTS OF THE POST-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE)	POST-MOUNTED FOREIGN PIPELINE TEST STATION	EX. 8" WATER	4/CP-5, 3/CP-10, 1/CP-11, 2/CP-11, 3/CP-13, 5/CP-13	8
26	90+27	42	REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW POST-MOUNTED TEST STATION AND INSTALL COUPON	POST-MOUNTED INSULATING JOINT TEST STATION WITH COUPON	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE	4/CP-5, 3/CP-7, 4/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
27A	96+59	42	NEW CONSTRUCTION	INSTALL ALL COMPONENTS OF THE POST-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE)	POST-MOUNTED FOREIGN PIPELINE TEST STATION	EX. 6" WATER	4/CP-5, 3/CP-10, 1/CP-11, 2/CP-11, 3/CP-13, 5/CP-13	4
27B	96+78	42	NEW CONSTRUCTION	INSTALL ALL COMPONENTS OF THE POST-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE)	POST-MOUNTED FOREIGN PIPELINE TEST STATION	EX. 12" WATER	4/CP-5, 3/CP-10, 1/CP-11, 2/CP-11, 3/CP-13, 5/CP-13	8
28A	101+04	42	NEW CONSTRUCTION	INSTALL ALL COMPONENTS OF THE POST-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE)	POST-MOUNTED FOREIGN PIPELINE TEST STATION	EXISTING 8" GAS LINE	4/CP-5, 3/CP-10, 1/CP-11, 2/CP-11, 3/CP-13, 5/CP-13	6
29	103+00	42	REPLACEMENT	INSTALL COUPON AT EXISTING TEST STATION	COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	4
33	117+96	12	REPLACEMENT	INSTALL COUPON AT EXISTING TEST STATION	COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
30	141+35	12	REPLACEMENT	INSTALL COUPON AT EXISTING TEST STATION	COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	ISOLATION BETWEEN 42" SEGMENT 4 WATER LINE AND 12" BEOW-OIT VALVE	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	5
39	141+33	42				ISOLATION BETWEEN 42 SEGMENT 4 WATER LINE AND 0 COMBINATION AIR RELEASE VALVE		J 3
//3	150+20	1 12		INSTALL COLIDON AT EVICTING TEST STATION	I COLIDON INSTALLATION AT EXISTING INISLILATING TOINT TEST STATION I	ISOLATION RETWEEN 42" SEGMENT 4 WATER LINE AND 12" RLOW OFF WALVE	3/CD-5 1/CD-7 2/CD-7 3/CD-13 4/CD-13 5/CD-13 6/CD-13	10
43 48 51	150+20 154+82 156+25	42 42 60	REPLACEMENT REPLACEMENT REPLACEMENT	REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL	COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT	3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13	10
51	154+82	60	REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13	12
51	154+82	60	REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13	12
51	154+82 156+25 161+34	60	REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13	12
51	154+82 156+25 161+34 161+94	60	REPLACEMENT REPLACEMENT REPLACEMENT NEW CONSTRUCTION	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE)	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION	EX. 2" GAS LINE EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13	12
51	154+82 156+25 161+34 161+94 162+18	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	12
51	154+82 156+25 161+34 161+94 162+18 177+82	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT	EX. 2" GAS LINE EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11)	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT REPLACEMENT NEW CONSTRUCTION	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION	EX 2" GAS LINE EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80 180+97	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE EX. 6" PETROLEUM LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11)	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80 180+97 186+43	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	EX. 2" GAS LINE EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80 180+97 186+43 191+35	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT	EX. 2" GAS LINE EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11)	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80 180+97 186+43 191+35 209+11	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION	EX 2" GAS LINE EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80 180+97 186+43 191+35 209+11 236+60 241+88 260+48	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 69 LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION AND REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION AND REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60 LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED CASING TEST STATION	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EXISTING 6" PETROLEUM PIPELINE AND GALVANIC ANODE REPLACEMENT CASING WEST END	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-6, 2/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13	12
51	154+82 156+25 161+34 161+94 162+18 177+82 180+80 180+97 186+43 191+35 209+11 236+60 241+88	60	REPLACEMENT REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT NEW CONSTRUCTION REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT REPLACEMENT	REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION, REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES, AND INSTALL COUPON RELOCATE FLUSH-MOUNTED TEST STATION OUTSIDE OF FENCE INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION (IF METALLIC FOREIGN PIPE) INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL ALL COMPONENTS OF THE FLUSH-MOUNTED TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB GALVANIC ANODES INSTALL COUPON AT EXISTING TEST STATION REPLACE UNLOCATED FLUSH-MOUNTED TEST STATION WITH NEW FLUSH-MOUNTED TEST STATION AND REPLACE EXISTING ATTACHED GALVANIC ANODES WITH TWO NEW 60-LB HIGH-POTENTIAL MAGNESIUM GALVANIC ANODES	FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT FLUSH-MOUNTED INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FOREIGN PIPELINE TEST STATION ANODE REPLACEMENT COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION COUPON INSTALLATION AT EXISTING INSULATING JOINT TEST STATION FLUSH-MOUNTED FOREIGN PIPELINE TEST STATION AND ANODE REPLACEMENT	EXISTING 8" GAS LINE AND GALVANIC ANODE REPLACEMENT ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 2" GAS LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 6" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE EX. 30" CSC WATER LINE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EX. 6" PETROLEUM LINE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 12" BLOW-OFF VALVE ISOLATION BETWEEN 60" SEGMENT 4 WATER LINE AND 8" COMBINATION AIR RELEASE VALVE EXISTING 6" PETROLEUM PIPELINE AND GALVANIC ANODE REPLACEMENT	1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 5/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-8, 2/CP-8, 3/CP-13, 5/CP-13	12
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3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 1/CP-10, 1/CP-11 (SEE NOTE 5 ON 1/CP-11) 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13, 6/CP-13 3/CP-5, 1/CP-10, 2/CP-10, 3/CP-10, 3/CP-13, 5/CP-13 3/CP-5, 1/CP-8, 2/CP-8, 3/CP-13, 5/CP-13 4/CP-5, 3/CP-6, 4/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 4/CP-5, 3/CP-6, 4/CP-6, 3/CP-13, 4/CP-13, 5/CP-13 3/CP-5, 1/CP-7, 2/CP-7, 3/CP-13, 4/CP-13, 5/CP-13	12

NOTES:

1/CP-4, 2/CP-4, 3/CP-4, 4/CP-4, 5/CP-4,

1/CP-5, 5/CP-13, 2/E-3

42" WATER LINE

SEGMENT 4 MICROBIOLOGICALLY INDUCED CORROSION (MIC) SOIL SAMPLES							
LOCATION	NO. OF SAMPLES AT LOCATION	SAMPLE SIZE	SAMPLE DEPTH				
TS #14	1						
TS #48	1	1-QUART	PIPE INVERT DEPTH				
TS #82	1						

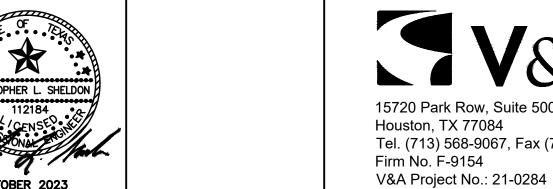
STEEL WITH DIELECTRIC

COATING

148+85

		REVISIONS						
ZONE	REV.	DESCRIPTION	BY	DATE	APP.			
	Λ	ADDENDUM NO. 2	ET	10/23	CS			
						JOB NO	21-0284	
						DRAWN	ERT	
						DESIGNED	ACR	
						CHECKED	CS	

SUBMITTED:	
APPROVED:	
DATE:	
APPROVED:	



	V&A	
Houston, TX	68-9067, Fax (713) 568-9068	

APPROVED
FOR CONSTRUCTION

SI	SAN ANTONIO WATER SYSTEM
	ASR PIPELINE CATHODIC PROTECTION SYSTEM REPLACE
	SECMENT IV

SEGMENT IV CATHODIC PROTECTION SCHEDULE (SHEET 1 OF 3)

SCALE
NTS
DRAWING NUMBER
CP-1
CP-1