

ODOR CONTROL FACILITY IMPROVEMENTS PROJECT

Solicitation Number: CO-00704 Job No.: 22-6506

ADDENDUM 2 May 17, 2024

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: Will there be a site visit?

Response:

No, a site visit is not planned. The Rilling Road and Brooks Sites are visible from street ROW. Addresses for these sites are noted below:

Rilling Road Address: 1718 Rilling Rd.

Brooks Site Address: 7629 Old Corpus Christi Rd.

2. Question: What's the address for that one (on Henderson Pass)?

Response:

The Henderson Pass Odor Control Station is an existing SAWS Odor Control Facility similar to those proposed at the Brooks, Leon Creek WRC, and Rilling Road Sites. The Henderson Pass Odor Control Station address is 17637 Henderson Pass. It is located near the intersection of Henderson Pass and the US 281 Frontage Rd. between the Sedona Ranch Apartment Complex and Office Max Store.



3. Question: Specification Section 26 28 16.16 2.1 C.2 calls for the NEMA 4X to be stainless steel finished gray baked painted enamel paint.

Response:

Please delete the painted finish as listed in Section 26 28 16.16 2.1 C.2. Refer to Item No. 3 of the Changes to the Specifications" section in this addendum.

4. Question: Specification Section 26 43 13 2.1 A3 calls for the Surge Protective Device (SPD) to be the same manufacturer as the Safety Switch and 2.1 4 K calls for the be the same NEMA Type as the Safety Switch it's protecting, would the SPD in NEMA 304 SS be acceptable from the same manufacturer? As not all the manufacturers listed on the Enclosed Switch specification sections manufactures SPDs in 316 SS and increases the lead times drastically.

Response:

NEMA 304 SS is acceptable for the SPD material. Refer to Item No. 4 of the "Changes to the Specifications" section in this Addendum.

5. Question: Please provide specifications for Mini Power Center. As it is missing from the specification Section. Will the Mini Power Center at the Rilling Road facility be acceptable as NEMA 3R 316 SS instead of NEMA 4X 316 SS shown on 80-E-401? Due to the internal transformer, NEMA 4X 316SS limits the available options for the manufacturers and increases the lead times drastically.

Response:

No, the NEMA 3R 316 SS is not acceptable. Please provide NEMA 4X 316 SS as specified. Refer to attached specification Section 26 22 00, Low-Voltage Transformers in this Addendum.

6. Question: Please provide specifications for the Site Security System Equipment (Camera) shown on 05-E-201.

Response:

The Bill of Materials on Drawing 08-I-602 provides the specific model number for the camera.

7. Question: Can you please Clarify the Mechanical Contractors relationship with the Prime Contractor for this project.

Response:

The Mechanical Contractor (or SAWS Vendor) will supply and install the following odor control station components: chemical storage tank, chemical metering pumps, control skid, chemical interconnecting piping, 3-inch chemical fill line, and valves.

The Prime Contractor shall coordinate directly with SAWS during the installation of these odor control station components by the SAWS vendor.

8. Question: Is the Mechanical Contractor, (Tank, Pumps, etc.) a totally separate contract with SAWS or does he need to be carried as a subcontractor to the Prime on this project?

Response:

The SAWS Vendor is under an existing separate contract and will supply and install the odor control station components as noted on the Plans (C7 and C13), Specifications (01 11 00), and Response to Question No. 7. It is not a Subcontractor to the Prime Contractor.

9. Question: Does the Prime Contractor on this project have to include any cost for the Mechanical Contractors items?

Response:

No, the items designated on the Plans (Sheet C7 and C13), and Specifications (01 11 00), and Response to Question No. 7 are all being supplied and installed by the SAWS Vendor.

Coordination between SAWS and Prime Contractor is anticipated during the installation of the odor control station components.

10. Question: Will the Mechanical Contractor include any piping or equipment for the Fill line piping or Fill station?

Response:

The Prime Contractor is responsible for installing the Chemical Fill Station, 1 1/2" drain line, and 2-inch ball valve, quick coupling, and 2-inch fill line to and including the 3"X 2" Reducer. The SAWS Vendor will supply and install the 3-inch Fill Line from the Chemical Fill Station 3" X 2" Reducer to the Chemical Tank.

Refer to Item No. 4, 5, and 7 of the "Changes to the Plans" section in this Addendum.

11. Question: Has the Mechanical Contractor been selected?

Response:

SAWS will utilize an existing SAWS Vendor, under a separate contract, to supply and install odor control station components as noted on the Plans (Sheet C7 and C13), Specifications (01 11 00), and Response to Question No. 7.

12. Question: Can the Mechanical Subcontractor provide a Scope of Work for his contract with SAWS to the Bidding Contractors?

Response:

No, refer to Plans (Sheet C7 and Sheet C13), Specifications (01 11 00), and Response to Question No. 7 for a list of the odor control stations components that will be supplied and installed by the SAWS Vendor.

13. Question: Can SAWS provide any information or direction as to the Mechanical Subcontractors schedule for delivery and installation of his Tank, Pumps. Piping, etc. for all the sites?

Response.

This information will be provided to the selected Contractor. The existing SAWS Vendor will be informed of the selected Contractor's schedule.

14. Question: Is the Mechanical Contract included in SAWS project estimate for this project?

Response:

No, the Engineer's OPCC excludes the cost of the SAWS Vendor Scope. SAWS will pay the Vendor directly for the components and their installation via a separate contract between SAWS and the Vendor.

15. Question: Will the Prime Contractor for this Contract have to carry the Mechanical Contractor under his Bond and/or Insurance?

Response.

This decision is left to the Prime Contractor's discretion. However, SAWS will not require the Prime Contractor to include the SAWS Vendor under his Bond and/or Insurance.

16. Question: Please verify scale on the drawings for Rilling Road facilities. The Civil/Structural drawings are off by 2, could be related to half sized drawings, however, Electrical drawing 05-E-201 Site plan is off by a factor of 3.

Response:

Rilling Road drawings are printed half-size. The scale on Electrical Drawing 05-E-201 has been corrected and the revised plan is included in this Addendum.

Refer to Item No. 1 of the "Changes to the Plans" section in this Addendum.

CHANGES TO THE SPECIFICATIONS

1. Section 01 11 00 Summary of Work, **Delete** Paragraph 1.2 B. in its entirety and **replace** with the following:

"Chemical storage tank, chemical metering pumps, controls skid, chemical interconnecting piping, 3-inch fill line from the chemical fill station to the chemical tank, and valves within the secondary containment area will be provided and installed by others (SAWS Vendor) under a separate contract."

- Section 26 22 00 Low Voltage Transformers, Add Section 26 22 00 Low Voltage Transformers in its entirety attached to this addendum.
- 3. Section 26 28 16.16 Enclosed Switches 26 28 16.16-1 2.1 C.
 - Paragraph 2.1 C. 2. Delete in its entirety.
- 4. Section 26 43 13 Surge Protective Devices for Low Voltage Electrical Power Circuits.

Paragraph 2.1 K. – **Delete** "Enclosure: Same NEMA type rating as switch." and **replace** with "Enclosure: Same NEMA type rating as switch or NEMA 304 stainless steel if SPD unit is not available in same rating as switch."

5. Section 40 95 80 Fiber Optic Communication System, Paragraph 3.03, Add the following sub-paragraph:

"C" Follow SAWS Telecommunications Cable Color Scheme in the table below:

SAWS Telecommunications Cable Color Scheme

Color	Termination Point	Application
Orange	Demarcation	Backhaul, Radio SM uplink, HISA, Circuits
Brown	Radio Access Network	PMP Access
White	1st level interconnect	IS network backbone
Gray	2nd level interconnect	IS network backbone
Blue	Enterprise Devices	Work stations, phones, space apps, time clock, etc.
Yellow	Security	Security Devices, intercoms, gate controllers, cameras
Purple	Industrial Devices	SCADA Systems, HVAC, industrial network devices
Red	Fire Systems	Fire alarm, fire system devices

CHANGES TO THE PLANS

- Rilling Road Drawing 05-E-201, Electrical Site Plan, remove in its entirety and replace it with the revised version attached to this addendum.
- 2. Rilling Road Drawing 05-L-201, Enlarged Tree Preservation Plan, remove in its entirety and replace with the revised version attached to this addendum.
- 3. Rilling Road Drawing 41-D-501, Liquid Treatment OCF Details, remove in its entirety and replace with the revised version attached to this Addendum.
- **4.** Leon Creek Drawing C7, Mechanical and Structural Plan and Section, remove in its entirety and replace it with the revised version attached to this addendum.
- 5. Brooks Drawing C13, Mechanical and Structural Plan and Section, remove in its entirety and replace it with the revised version attached to this addendum.
- Brooks Drawing C14, Brooks Tree Preservation Plan, remove in its entirety and replace it with the revised version attached to this addendum.
- 7. Leon Creek WRC and Brooks Drawing C19, Mechanical Details, remove in its entirety and replace it with the revised version attached to this addendum.

END OF ADDENDUM

This Addendum, including these five (5) pages, is fifteen (15) pages with attachments in its entirety.

Attachments: Section 26 22 00, Low Voltage Transformers (3 pages)

Rilling Road Drawing 05-E-201, Site Plan (1 page)

Rilling Road Drawing 41-D-501, Liquid Treatment OCF Details (1 Page) Rilling Road Drawing 05-L-201, Enlarged Tree Preservation Plan (1 page) Leon Creek Drawing C7, Mechanical and Structural Plan and Section (1 page) Brooks Drawing C13, Mechanical and Structural Plan and Section (1 page)

Brooks Drawing C14, Brooks Tree Preservation Plan (1 page)

Leon Creek WRC and Brooks Drawing C19, Mechanical Details (1 page)

JAVIER GARCIA
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Javier Garcia, P.E.

Garcia Infrastructure Consultants, LLC

SECTION 26 22 00 LOW-VOLTAGE TRANSFORMERS

PART 1 **GENERAL**

1.01 **REFERENCES**

- A. The following is a list of standards which may be referenced in this section:
 - 1. Code of Federal Regulations (CFR): 10 CFR Part 431, DOE 2016 efficiency.
 - Institute of Electrical and Electronics Engineers (IEEE): C57.96, Guide for 2. Loading Dry Type Transformers.
 - National Electrical Contractor's Association (NECA): 409, Recommended 3. Practice for Installing and Maintaining Dry-Type Transformers.
 - 4. National Electrical Manufacturers Association (NEMA):
 - 250, Enclosures for Electrical Equipment (1,000 Volts Maximum).
 - ST 20, Dry-Type Transformers for General Applications. b.
 - National Fire Protection Association (NFPA): 70, National Electrical Code 5. (NEC).
 - UL: 6.
 - a. 486E, Standard for Equipment Wiring Terminals for use with Aluminum and/or Copper Conductors.
 - 489, Standard for Molded-Case Circuit Breakers, Molded-Case b. Switches, and Circuit Breaker Enclosures.
 - 1561, Standard for Dry-Type, General Purpose, and Power c. Transformers.

1.02 **SUBMITTALS**

- A. **Action Submittals:**
 - Descriptive information. 1.
 - Dimensions and weight. 2.
 - Transformer nameplate data, including efficiency. 3.
 - 4. Schematic and connection diagrams.

PART 2 **PRODUCTS**

- **GENERAL** 2.01
 - UL 1561, NEMA ST 20, unless otherwise indicated. A.
 - B. Dry-type, self-cooled, two-winding, with copper windings.

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- C. Units larger than 5 kVA suitable for use with 75 degrees C wire at full NFPA 70, 75 degrees C ampacity.
- D. Efficiency: Meet or exceed DOE 2016 efficiency requirements.
- E. Maximum Sound Level per NEMA ST 20:
 - 1. 40 decibels for 0 kVA to 9 kVA.
 - 2. 45 decibels for 10 kVA to 50 kVA.
 - 3. 50 decibels for 51 kVA to 150 kVA.
 - 4. 55 decibels for 151 kVA to 300 kVA.
 - 5. 60 decibels for 301 kVA to 500 kVA.
- F. Overload capability: Short-term overload per IEEE C57.96.
- G. Wall Bracket: For single-phase units, 15 kVA to 37-1/2 kVA, and for three-phase units, 15 kVA to 30 kVA.
- H. Vibration Isolators:
 - 1. Rated for transformer's weight.
 - 2. Isolation Efficiency: 99 percent, at fundamental frequency of sound emitted by transformer.
 - 3. Less Than 30 kVA: Isolate entire unit from structure with external vibration isolators.
 - 4. 30 kVA and Above: Isolate core and coil assembly from transformer enclosure with integral vibration isolator.
- I. Manufacturers:
 - 1. General Electric Co.
 - 2. Square D Co.
 - 3. Eaton/Cutler-Hammer.

2.02 MINI-POWER CENTER (MPC)

- A. General: Transformer, primary, and secondary main circuit breakers, and secondary panelboard section enclosed in NEMA 250, Type 4X, Type 316 stainless steel enclosure.
- B. Transformer:
 - 1. Insulation Class and Temperature Rise: Manufacturer's standard.
 - 2. Efficiency: Manufacturer's standard (DOE 2016 efficiency).
 - 3. Core and Coil: Encapsulated.
 - 4. Full capacity, 5 percent voltage taps, two below normal voltage.
 - 5. Primary Voltage: 480, three-phase.

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ODOR CONTROL FACILITY IMPROVEMENTS

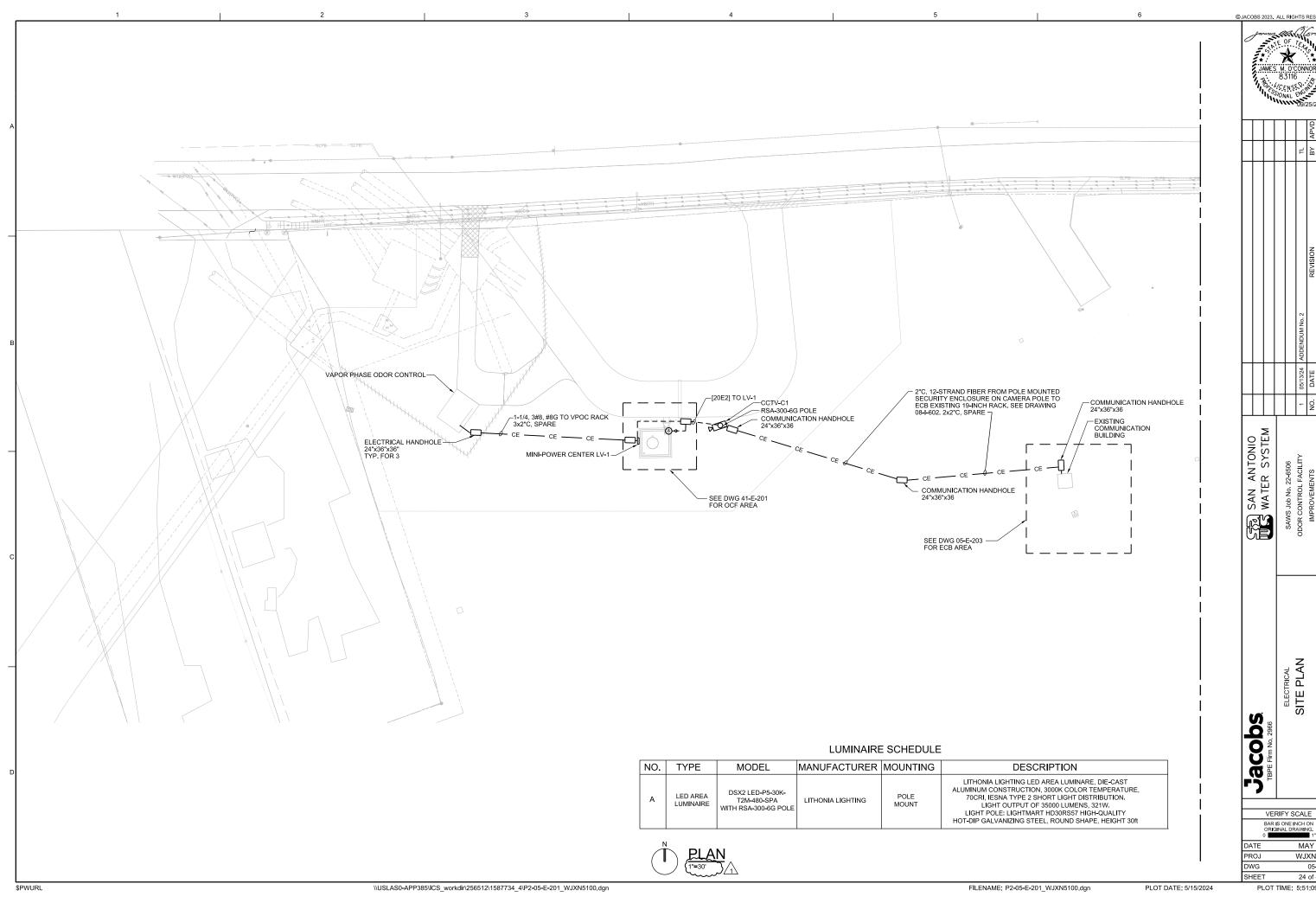
- 6. Secondary Voltage: 208/120 volts, three-phase, four-wire.
- C. Panelboard: Full, UL 489, short-circuit current rated.
 - 1. Type: Thermal-magnetic, quick-make, quick-break, indicating, with noninterchangeable molded case circuit breakers.
 - 2. Number and Breaker Ampere Ratings: Refer to Panel Schedule.

PART 3 EXECUTION

3.01 INSTALLATION

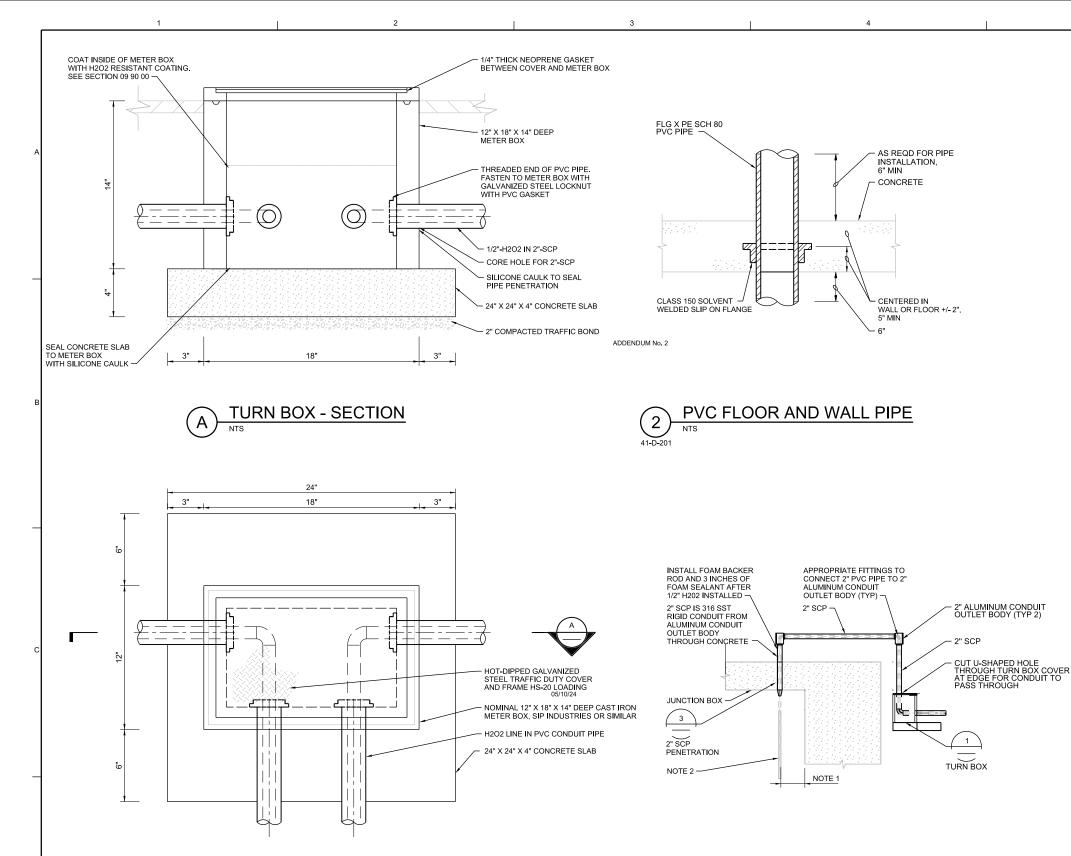
- A. Install in accordance with NECA and manufacturer's instructions.
- B. Load external vibration isolator such that no direct transformer unit metal is in direct contact with mounting surface.
- C. Provide moisture-proof, flexible conduit for electrical connections.
- D. Provide wall brackets for single-phase units, 15 kVA to 167-1/2 kVA, and three-phase units, 15 kVA to 30 kVA.

END OF SECTION



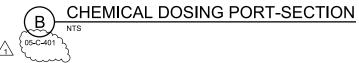
MAY 2024 WJXN5100 05-E-201 24 of 49 PLOT TIME: 5:51:09 AM

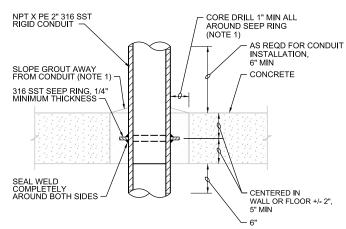
ELECTRICAL
SITE PLAN



TURN BOX - TOP VIEW

- COORDINATE EXACT LOCATION OF WHERE 2" SCP PENETRATES THE CONCRETE SLAB WITH OWNER.
- COORDINATE INSTALLATION OF 1/2" H2O2 WITH OWNER AND H2O2





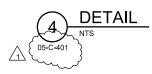
NOTES:

CORE DRILL THROUGH SLAB, CLEAN CORED HOLE, AND COAT WITH BITUMINOUS DAMP PROOFING. VOIDS IN CONCRETE SHALL BE GROUTED PRIOR





COORDINATE EXACT LOCATION OF 2" SCP PENETRATION THROUGH CONCRETE SLAB WITH OWNER. THE PENETRATION IS TO BE CENTERED OVER THE WATER FLOW IN THE JUNCTION BOX APPROXIMATELY 18" FROM THE SOUTHWEST WALL OF JUNCTION BOX.



독등 SAN ANTONIO

9/25/2023

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PROJ DWG

BAR IS ONE INCH ON

ENLARGED TREE PRESERVATION PLAN
1"=40'-0"



LEGEND	
+	EXISTING HERITAGE TREES TO REMAIN
+	EXISTING HERITAGE TREES TO BE REMOVED
	BRUSH TO BE REMOVED. FOR CONSTRUCTION.
	TREES TO REMAIN.

	Final Tree Canopy Covera Requirement				
Site Square Footage:	77,207				
35% Canopy Cover Required:	27,022				
Site Square Footage Preserved:	10,979				
Tree Preservation Incentive (1.5x): (See Incentive Tree Canopy Square Footage Column below)	N/A				
Energy Conservation Credit (See Table below)	Not Utilized				
Final Site Tree Canopy Preservation:	16,043				
Mitigation Trees (See Table below)	0				
Square Footage to be Mitigated/(Surplus):	0				

Mitigation Trees	Qty.	Value	Percentage	Total Value			
Not Required	0	0	0%	0			
Total Number of Mitigation Trees Provided:	0			0			
Total Square Footage Mitigated: 0							

Tree Canopy Mitigation Payment to Tree Fund:					
Square Footage to be Mitigated	0				
Tree Canopy SF (875 @90%)	0				
Number of Required Trees	0				
Required Replacement Tree Caliper	0				
Cost per Replacement Tree Caliper Inch	\$200.00				
PAYMENT TO TREE FUND	\$0.00				

TREE PRESERVATION SCHEDULE				TREES 6"+							SMALL TREE SPECIES 2"+				
TREE NUMBER	COSA Size	SPECIES	FIELD NOTE	SIGNIFICANT TREES 6" - <24" (@40% MIN.)		SIGNIFICANT TREES 10" - <24" (@40% MIN.)		HERITA	HERITAGE TREES 24"+ (@100%)			SIGNIFICANT TREES 5" - <12" (@40% MIN.)		HERITAGE TREES 12"+ (@100%)	
				TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED (3:1)	TO BE REMOVED (1:1)	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED	
SUB-TOTAL	NCHES:			0	0	0	0	0	0	0	0	0	0	0	
	TOTAL ON-SITE INCHES:			0				0			0		0		
MIN. REQUIF	MIN. REQUIRED PRESERVED INCHES:			0				0			0		0		
% INCHES P	% INCHES PRESERVED:			0.00%			0.00%			0.00%		0.00%			
								<u> </u>							
SURPLUS IN	CHES:		I	0				0			0		0		

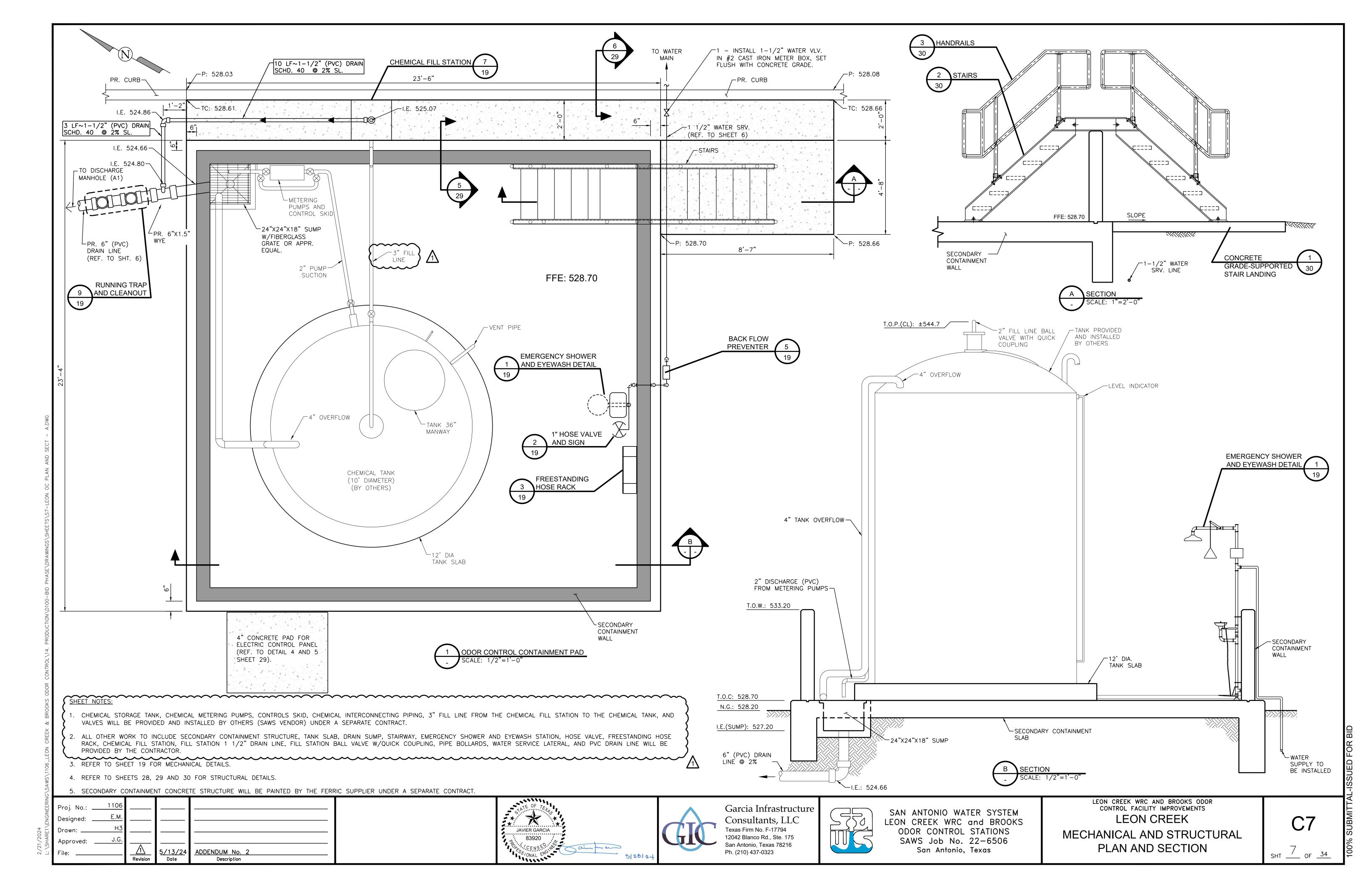
3 TREE CANOPY COVER REQUIREMENT

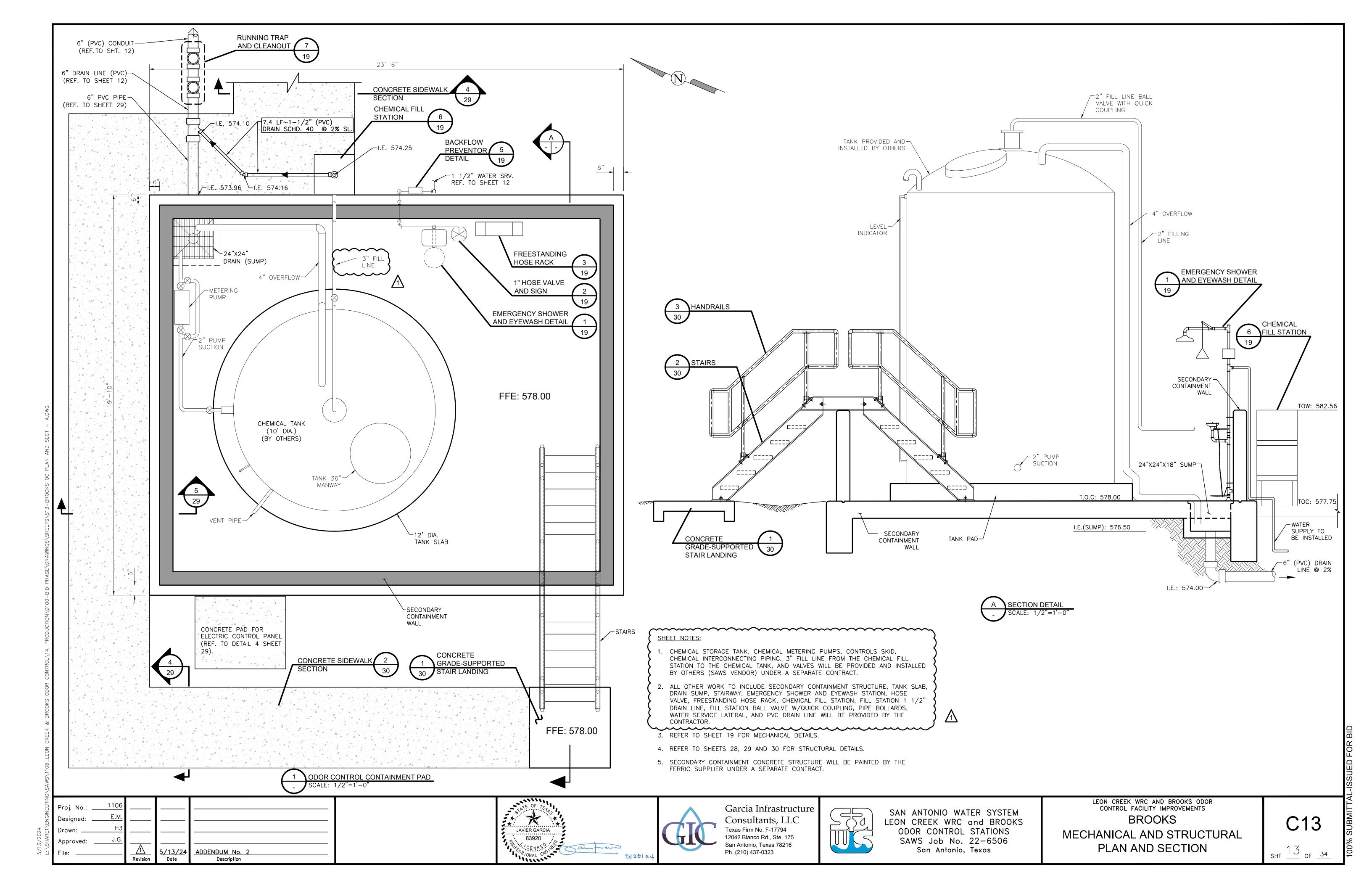
Jacobs

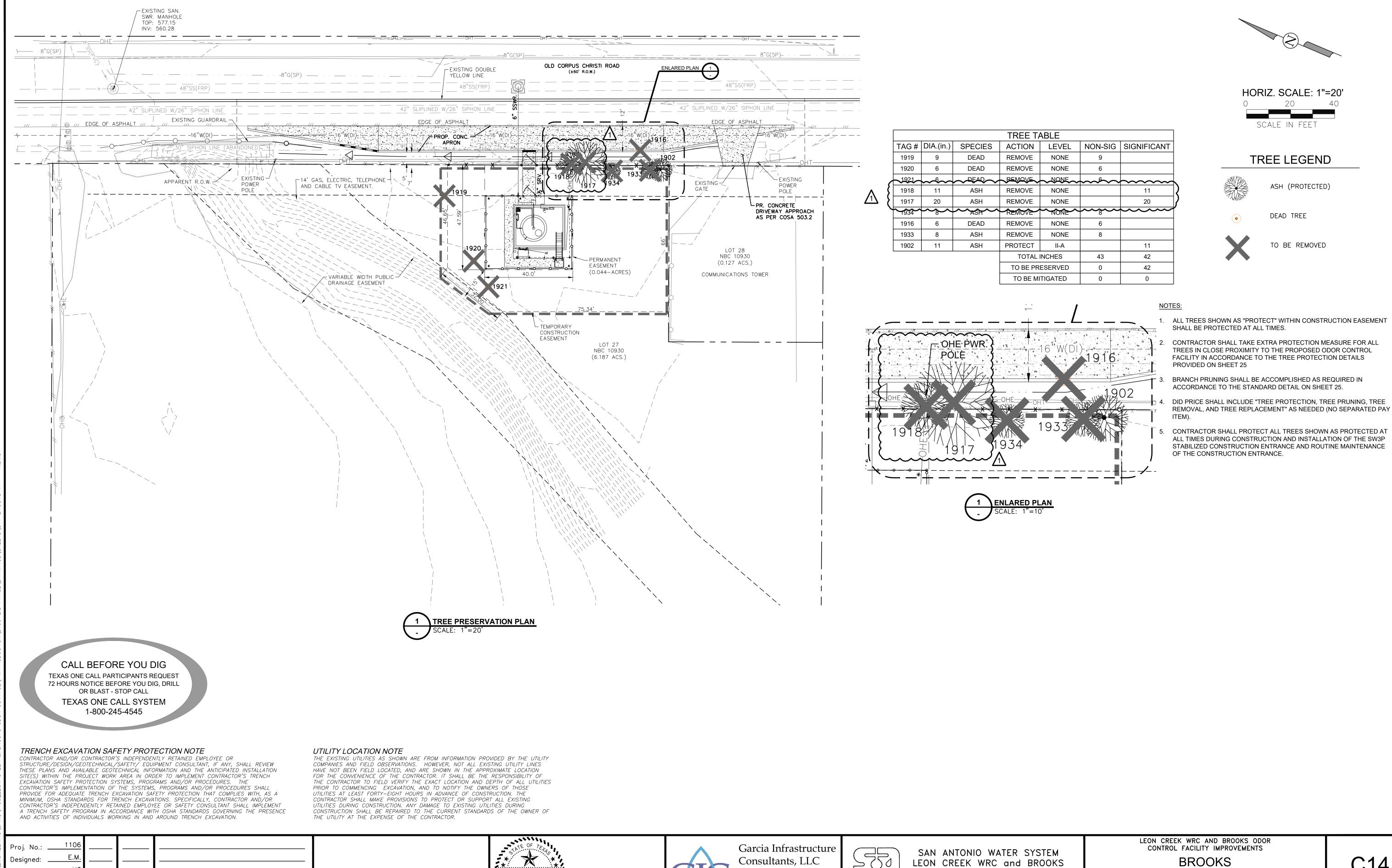
2 LEGEND

FILENAME: S: /21-1269/DWGS/11269L3.DWG

PLOT DATE: \$PLOTDATE







JAVIER GARCIA

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Approved:

5/13/24 Date

ADDENDUM No. 2

Description

Texas Firm No. F-17794

12042 Blanco Rd., Ste. 175

San Antonio, Texas 78216

Ph. (210) 437-0323

ODOR CONTROL STATIONS

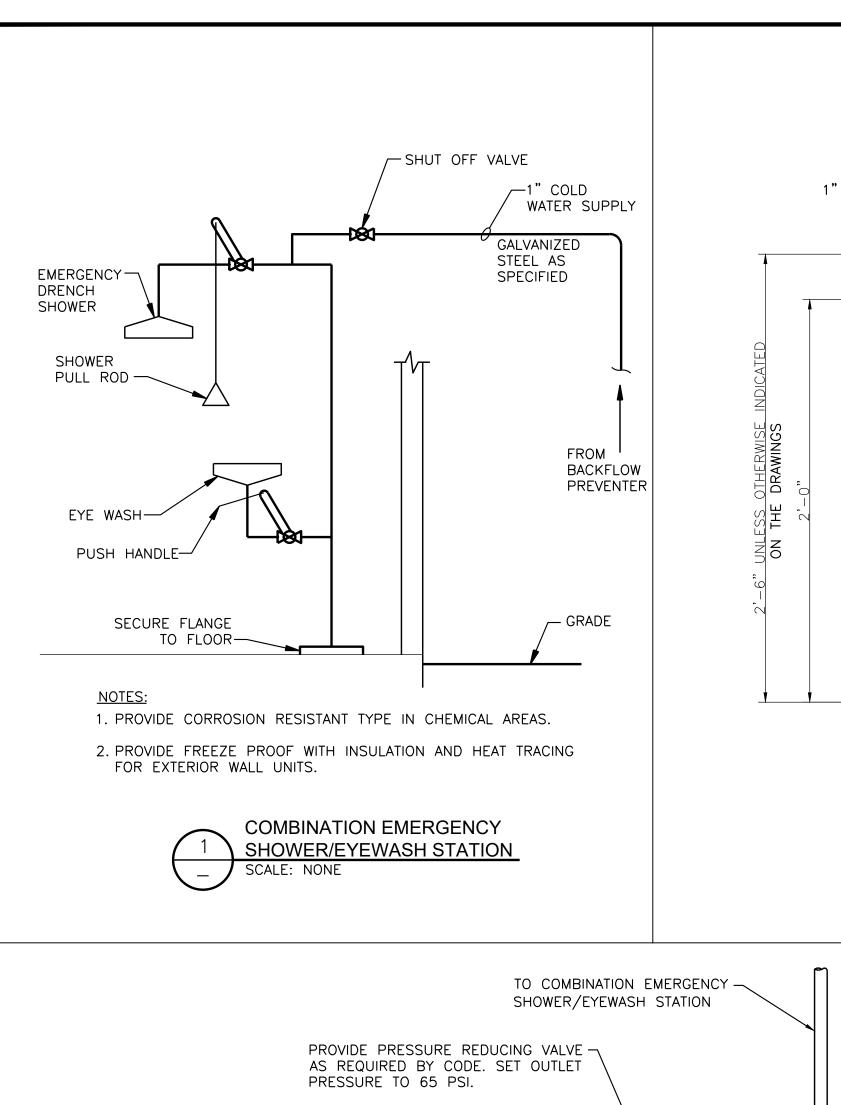
SAWS Job No. 22-6506

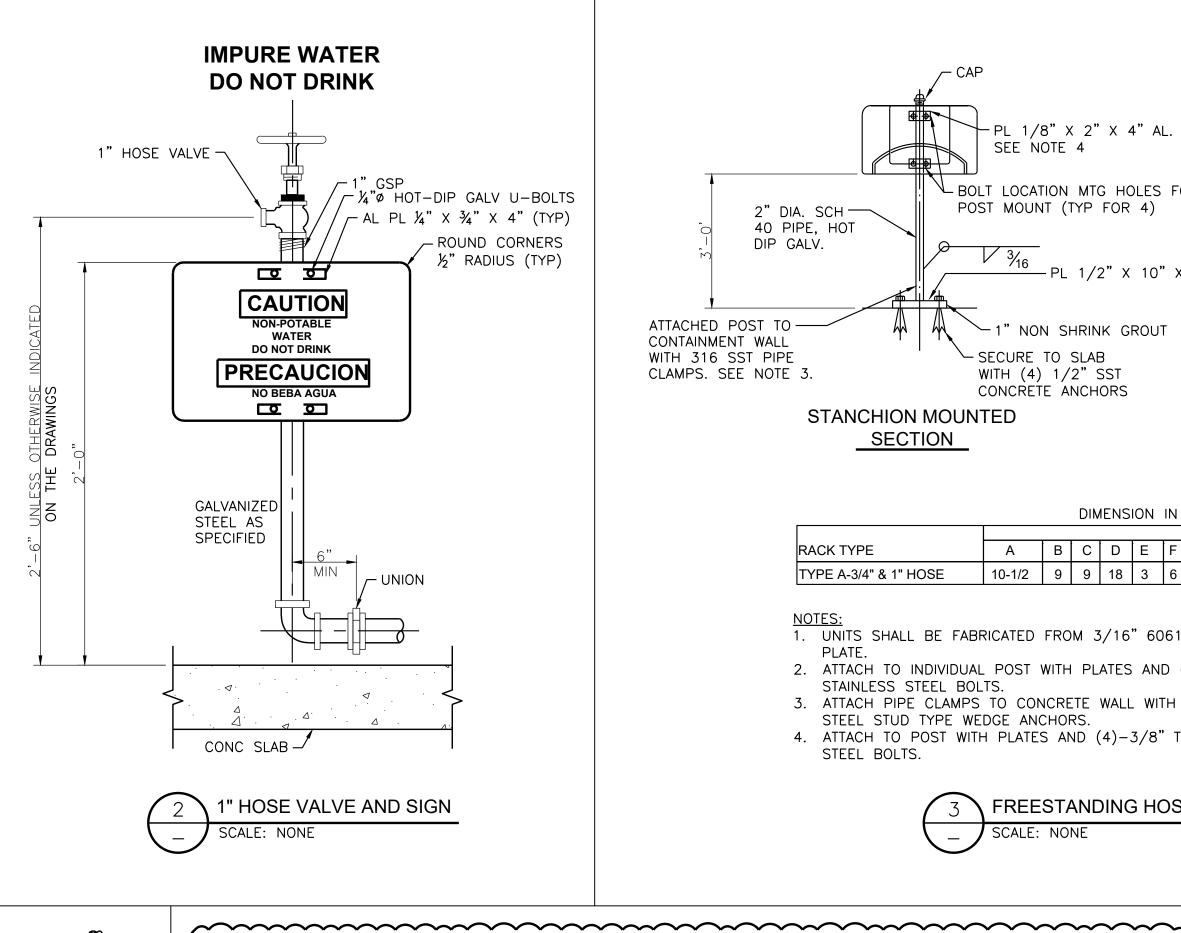
San Antonio, Texas

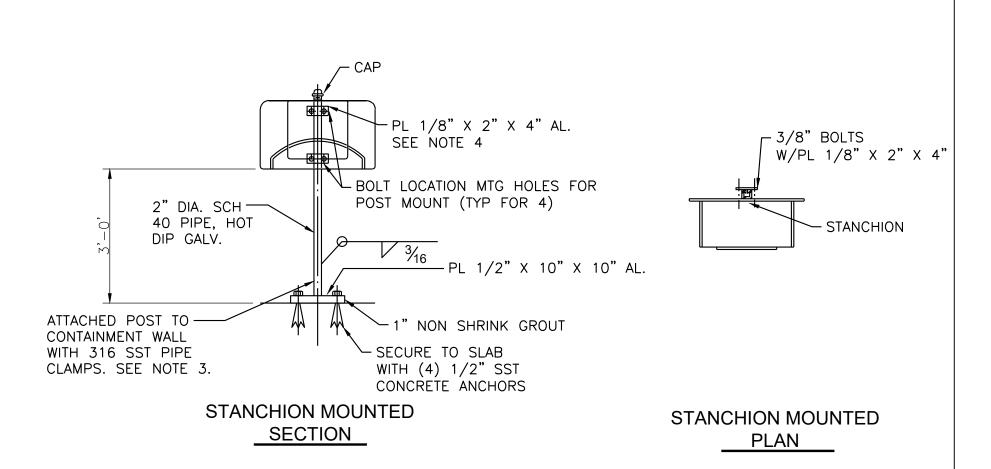
C14

SHT 14 OF 34

TREE PRESERVATION PLAN



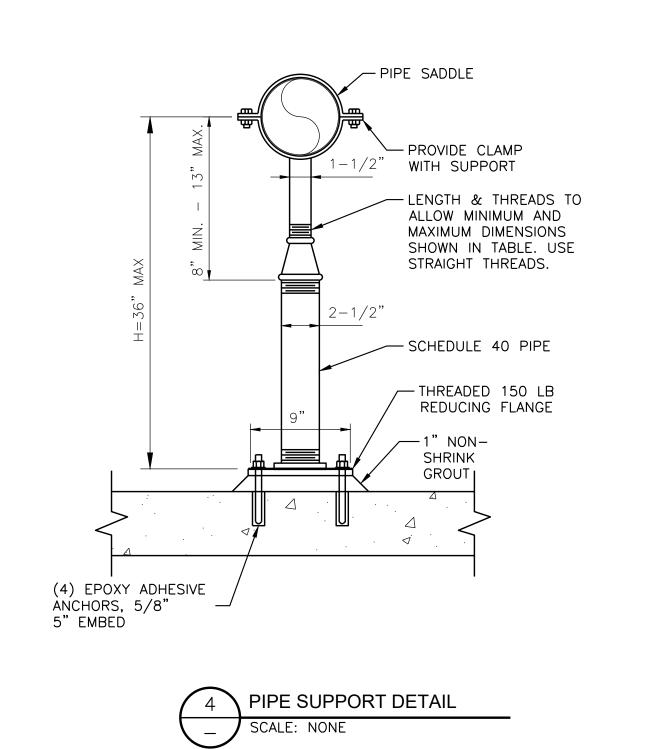


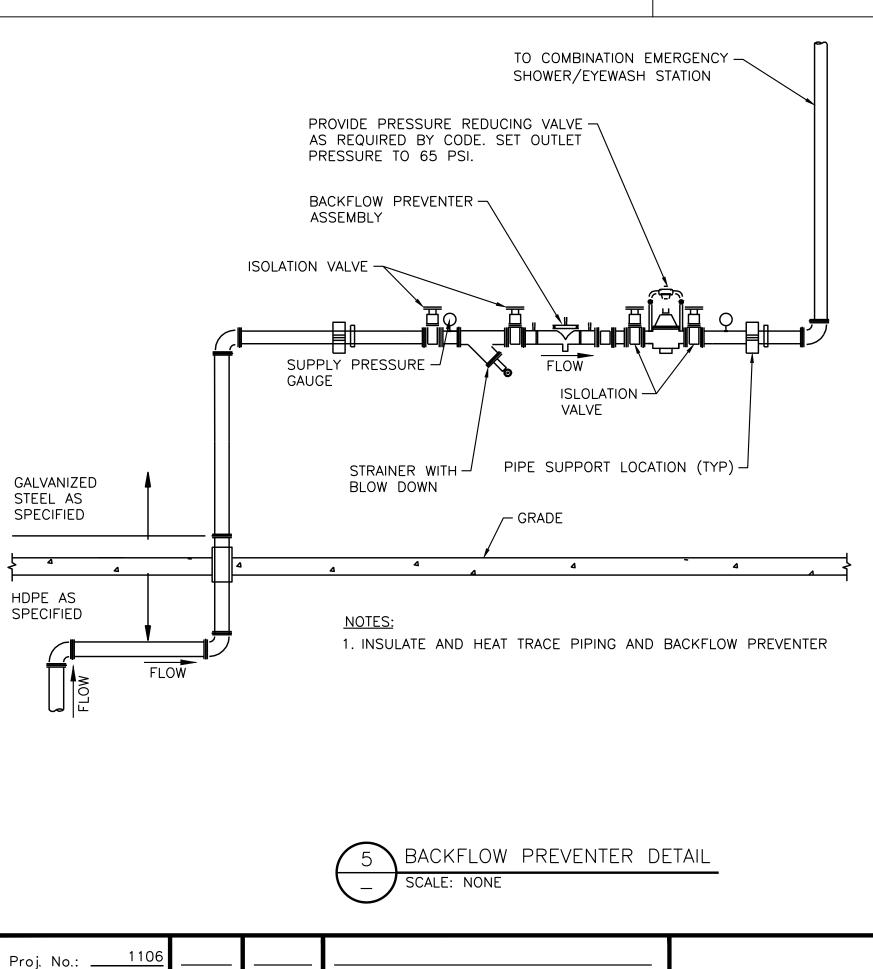


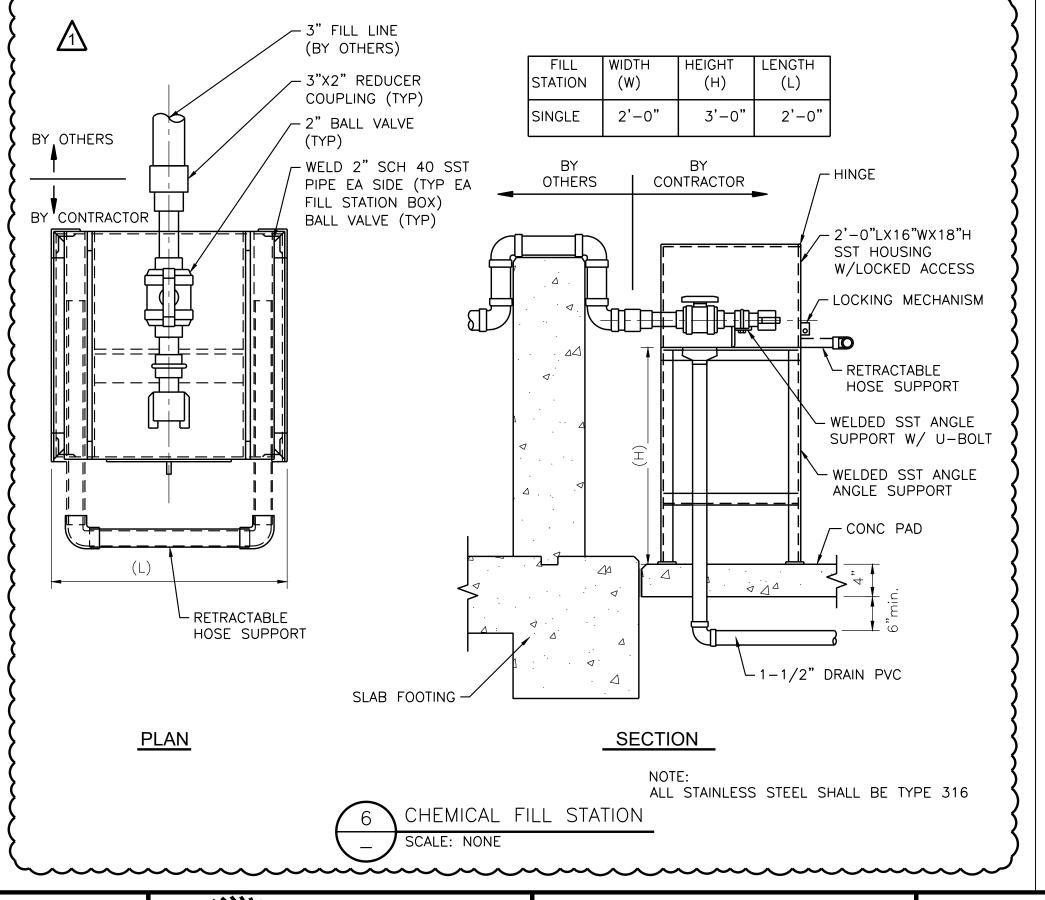
DIMENSION IN INCHES									
RACK TYPE	Α	В	С	D	Е	F	G	Н	J
TYPE A-3/4" & 1" HOSE	10-1/2	9	9	18	3	6	7-1/2	9-3/4	1-1/2

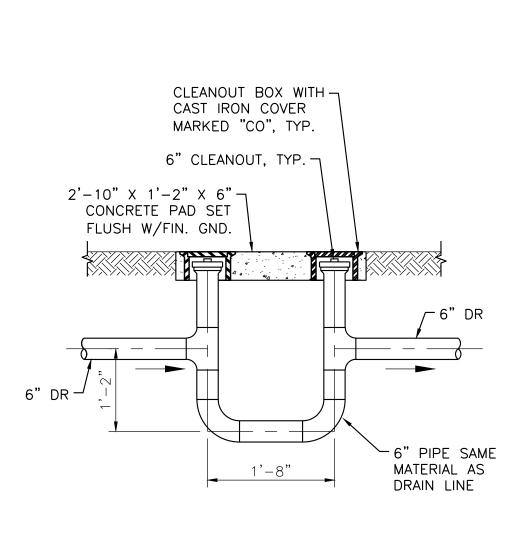
- 1. UNITS SHALL BE FABRICATED FROM 3/16" 6061-T6 ALUMINUM ALLOY
- 2. ATTACH TO INDIVIDUAL POST WITH PLATES AND (4)-3/8" TYPE 316
- STAINLESS STEEL BOLTS. 3. ATTACH PIPE CLAMPS TO CONCRETE WALL WITH 3/8" TYPE STAINLESS
- STEEL STUD TYPE WEDGE ANCHORS. 4. ATTACH TO POST WITH PLATES AND (4)-3/8" TYPE 316 STAINLESS STEEL BOLTS.



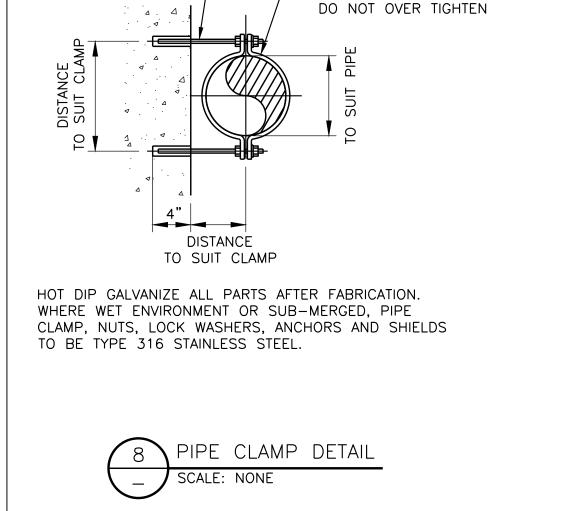








RUNNING TRAP AND CLEANOUT



-3/8" ø THREADED RODS

ADHESIVE WITH TWO (2) HEX,

,—MIN. BAR 1 1/2" WIDE × 3/16"

THICK PIPE CLAMP. WHEN USED

WITH PVC OR FIBERGLASS PIPE. PROVIDE STEEL SHIELD AROUND

PIPE AT CLAMP WITH SNUG FIT,

NUTS & LOCKWASHERS, SET

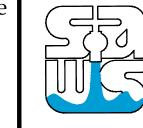
SÉT IN HILTI HY-150

Approved: 5/13/24 Date ADDENDUM No. 2 Description





Garcia Infrastructure Consultants, LLC Texas Firm No. F-17794 12042 Blanco Rd., Ste. 175 San Antonio, Texas 78216 Ph. (210) 437-0323



SAN ANTONIO WATER SYSTEM LEON CREEK WRC and BROOKS ODOR CONTROL STATIONS SAWS Job No. 22-6506 San Antonio, Texas

SCALE: NONE

LEON CREEK WRC AND BROOKS ODOR CONTROL FACILITY IMPROVEMENTS

MECHANICAL DETAILS

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