

### Basin Pump Station Improvements Phase II Project SAWS Job No. 15-6004 Solicitation No. CO-00163

#### **ADDENDUM No. 3**

March 30, 2018

This addendum, applicable to work designated above, is an amendment to the proposal and specification documents and as such shall be a part of and included in the Contract. Acknowledge receipt of this addendum by entering the addendum number and issue date on the space provided in submitted copies of the proposal.

### 1. Questions/Comments

**1.1.** 6" Storm Drain East of Existing Pump Station Building is called out for replacement, but appears to be located under existing electrical building and loading dock. Will these facilities be removed prior to construction activities? Will lining this pipe be an acceptable alternative to remove/replace?

**Response:** Lining will be an acceptable alternative.

**1.2.** Existing water pipe removal does not reference pipe type. For bidding purposes, should this pipe be assumed to be steel or AC?

**Response:** The existing yard piping to be removed is steel.

**1.3.** Section 01040, 1.03, A, Please confirm the duration of winter months. October 1, 2017 is provided as a start date, but no end date is provided.

**Response:** Winter months are identified as October 1, 2018 through April 30, 2019.

**1.4.** Section 01040, 1.04, Please define working the working restrictions for the tank rehabilitation. When can the tank be out of service and will the contractor need to maintain any functionality during the construction process?

**Response:** Refer to part 2, Modifications to the Specifications, item 2.1 herein.

**1.5.** Addendum 1, 1.8 &1.11, Will SAWS provided an updated list of approved PCSI and ASP contractors prior to bid date? If no list is provided, are bidders to select from the contractors provided in the bid documents?

**Response:** Refer to part 2, Modifications to the Specifications, item 2.3 herein and the contractor documents.

**1.6.** Please confirm depths of wells 5 and 6 and provide weights for pumps, motors, and shafts that will need to be lifted to allow for flange extension and motor rotation.

**Response:** Information not available. The larger well motor is 400 HP.

1.7. Section 02503, 1.01, A, Please confirm lead abatement requirements and lead containing materials. Specification refers to items located in the 34th Street Pump Station. Due to the bidding time constraints, we would recommend changing the lead abatement bid item to an allowance and conduct a full site investigation post award. If this is not possible, please provide the full extent of lead paint present on the project. Is the contractor to assume that the existing tank, well motors, and above grade piping all contain lead paint? Is the contractor hire a remediation consultant to investigate the full extent of lead contamination prior to beginning work?

**Response:** An asbestos and lead survey has been developed for SAWS on this project and 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: CO-00163 – Basin Pump Station Improvements Phase II Project

1.8. Section 0101, 1.05, F, requires the contractor to provide temporary power to the Basin Pump Station until final acceptance. Please provide the station power consumption records and utility bills for the previous year. Is it assumed that power consumption during the construction period will be more or less than the previous year? Does the contractor's financial obligation begin at NTP or when the existing primary power service is first affected?

**Response:** The cost of the facilities to provide temporary power by CONTRACTOR. The cost of the electricity to operate the Pump Station and Wells will be paid for by SAWS.

**1.9.** Section 16000, 1.07, D, requires the contractor to pay all power company charges for obtaining electrical service. Do these fees differ from the fees described in 1.07 C or the Line item 12 allowance? Additionally, has the owner secured a routing and timeline for new service from the power company?

**Response:** Refer to Addendum No. 2 part 2, Modifications to the Specification, Item 2.8. Also routing or time line is not established

**1.10.** Section 02504, PART 1, A, defines AC pipe as friable. 3.06, C, considers AC pipe to be nonfriable unless broken. Please confirm unbroken AC Pipe classification.

**Response:** AC pipe in good condition is classified as nonfriable. If the AC pipe can be crumbled, pulverized, or reduced to powder by hand pressure then it is classified as friable.

**1.11.** Section 17300, 1.05, C requires to name the selected PCSI in the bid documents. Please clarify where in the bid documents this listing is to take place? Will the vendor/subcontractor listing in the SMWVB paperwork be sufficient for this purpose or will another form be required?

**Response:** The SMWVB paperwork is sufficient.

**1.12.** Page 1 of 4 of the Good Faith Effort Plan for Construction SUBCONTRACTS form requires a listing of ALL subcontractors/suppliers to be used on this project. Due to the limited bid timeframe and the tightening vendor market, it may not be possible to have committed subcontractors/suppliers for all scopes of work available at the time of bid. If a subcontractor/supplier is not listed on this document at bid time, are they excluded from working on the project?

**Response:** CONTRACTOR must comply with all SAWS contract requirements and requirements for the SAWS Good Faith Effort Plan.

**1.13.** Electrical drawings indicate shelters to be located above well electrical components. These shelters do not appear in the civil or architectural drawings and no specifications are provided. Please detail construction requirements for these shelters.

**Response:** Shelters are not required for the well electrical equipment.

**1.14.** Second transformer pad is shown on electrical drawings, but does not appear on civil sheets. Please confirm horizontal alignment and elevation.

**Response:** Refer to part 3, Modifications to Drawings, item 3.2 and 3.3 herein.

**1.15.** Please confirm if the existing and proposed above grade steel piping receives Polyurethane Coating per spec. section 09911 and Class 9 Coating System per spec. section 09900.

**Response:** Class 9 Coating system is for existing and proposed above grade steel piping. Section 09911 is for buried piping.

**1.16.** Per painting and coating spec, 09900, "all existing facilities that will be upgraded as a part of the project" will be painted (1.01.B). Please identify specific element of the existing facilities that need to be recoated. Will all interior and exterior components of the existing pump station be recoated per this project? If so, please provide detailed plan sheets for the existing building and piping systems.

**Response:** The interior components of the High Service Pump Station will not be recoated. Exterior components including all steel elements including, handrails, the roof access ladder, and the steel rail and cage located on the loading deck will be recoated.

**1.17.** Per painting and coating spec, 09900, exposed concrete receives coating (1.01.B.2). Please confirm that concrete structures in the yard such as the valve pads, transformed slab, switchgear foundation slab, proposed concrete paving, sidewalks, and flow control pads receive coating system #4. Additionally, do existing exterior concrete surfaces require coating?

**Response:** Concrete flatwork in the yard such as valve pads, transformed slab, switchgear foundation slab, proposed concrete paving, sidewalks, and flow control pads will not be coated.

**1.18.** Per painting and coating spec, 09900, please confirm that stainless steel tubing is not coated. Exclusion item number 1.01.E.4 and 1.01.E.6 appear in contradiction regarding the coating of stainless steel tubing.

**Response:** Stainless steel tubing is not to be coated unless otherwise noted on the plans and/or specifications.

**1.19.** Please confirm whether or not the existing wells pump and motors need to have their existing coating removed and then have a new coating applied per spec 09900. If so, are we to assume that the existing coating contains lead?

**Response:** The existing well pumps and motors to be recoated per specification 09900.

An asbestos and lead survey has been developed for SAWS on this project and 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: CO-00163 – Basin Pump Station Improvements Phase II Project

**1.20.** Please provide technical specifications for the motorized gate operators.

**Response:** Refer to part 2, Modifications to the Specifications, item 2.2 herein.

**1.21.** With the issuance of Addendum #1 and the added tank rehab scope of work, there were not any modifications made to the Coordination Specification 01040, specifically no further detailed shutdown constraints were provided. Please advise if the Basin Pump Station in entirety can be shutdown and taken offline for the duration of the contract time.

**Response:** Refer to part 2, Modifications to the Specifications, item 2.1 herein.

## 2. Modifications to the Specifications

**2.1.** Section 01040 – Coordination

Section 1.03.A – **Replace** October 1, 2017 with October 1, 2018.

Section 1.05.A – Delete paragraph in its entirety and replace with the following:

A. Shutdown No. 1 – GST Rehabilitation Only: \_The tank shall be drained and empty during all paint removal and all cleaning, application, and curing of the new coating. The OWNER shall drain the tank and the CONTRACTOR shall be responsible for removing any excess water and cleaning any sediment in the tank interior in preparation for the blasting and coating application operations. A plan of action as

required in Article H.1.c above shall be submitted for approval by SAWS at least 14 calendar days ahead of the proposed work date. The shutdown must occur during the winter months of October 31, 2018 through April 30, 2019. While the tank is shutdown the High Service Pump Station must remain operational.

B. Shutdown No. 2: Shutdown of existing Pump Station facilities for the replacement of the isolation valves at the existing storage tank. A plan of action as required in Article H.1.c above shall be submitted for approval by SAWS at least 14 calendar days ahead of the proposed work date. The shutdown shall not exceed 3 days, no more than two shutdowns will be allowed.

#### 2.2. Section 02821 – Chain-Link Fences and Gates

Add the following Paragraph:

#### 2.14 ROLLING GATE OPERATOR:

- 1. There shall be a Chain Driven Type Slide Gate Operator for the opening/closing of each access gate. 208 V single phase single-phase power will be furnished onsite. It shall be provided with and connected to obstruction loops inserted on both sides of the entrance access gate. The obstruction loops inserted on both sides of the entrance access gate. The obstruction loops shall be buried 4 –inches in the concrete pavement an arranged as per the Contract Drawings.
- 2. Manufacturer: Door King model DKS 9150 with:
  - a. Plug in Loop Detector Option
  - b. Provide Disconnection Switch adjacent to operator. Mount to rack constructed of 2" galvanized pipe and strut similar to other racks specified for this project.
  - c. Operator shall be mounted on contractor installed 26"L x21.5"W x 4" H concrete slab per the manufacturer. Refer to installation manual for spacing from gate and other requirements.

### 2.3. Section 17300 – Process Control Systems General Provisions

Article 1.06.E.3– **Add** the following:

3. Prime Controls (for PLC and other HMI system applications, as applicable)

1725 Lakepointe Dr.

Lewisville, TX 75057

Attn: Gary McNeil

Phone: 972-221-4849

Fax: 972-420-4842

#### 3. Modifications to the Drawings

## **3.1.** Sheet C-108

Add the following Note:

7. Demolish the existing piping & appurtenances regarding the existing chlorine gas disinfection system. Coordinate removal of retained/salvaged equipment with SAWS. The existing chlorine gas disinfection area shall be sandblasted and coated per Specification 09900.

#### **3.2.** Sheet C-111.

Replace sheet in its entirety with the attached sheet.

#### **3.3.** Sheet C-112.

Replace sheet in its entirety with the attached sheet.

#### **3.4.** Sheet D-1101.

Replace sheet in its entirety with the attached sheet.

#### **3.5.** Sheet D-1102.

Replace sheet in its entirety with the attached sheet.

#### **3.6.** Sheet D-1103.

Replace sheet in its entirety with the attached sheet.

#### **3.7.** Sheet D-1104.

Replace sheet in its entirety with the attached sheet.

#### **3.8.** Sheet D-1105.

Replace sheet in its entirety with the attached sheet.

#### **3.9.** Sheet D-1106.

Replace sheet in its entirety with the attached sheet.

#### **3.10.** Sheet D-1107.

Replace sheet in its entirety with the attached sheet.

### **3.11.** Sheet D-1108.

Replace sheet in its entirety with the attached sheet.

The remainder of the bid documents remain unchanged.

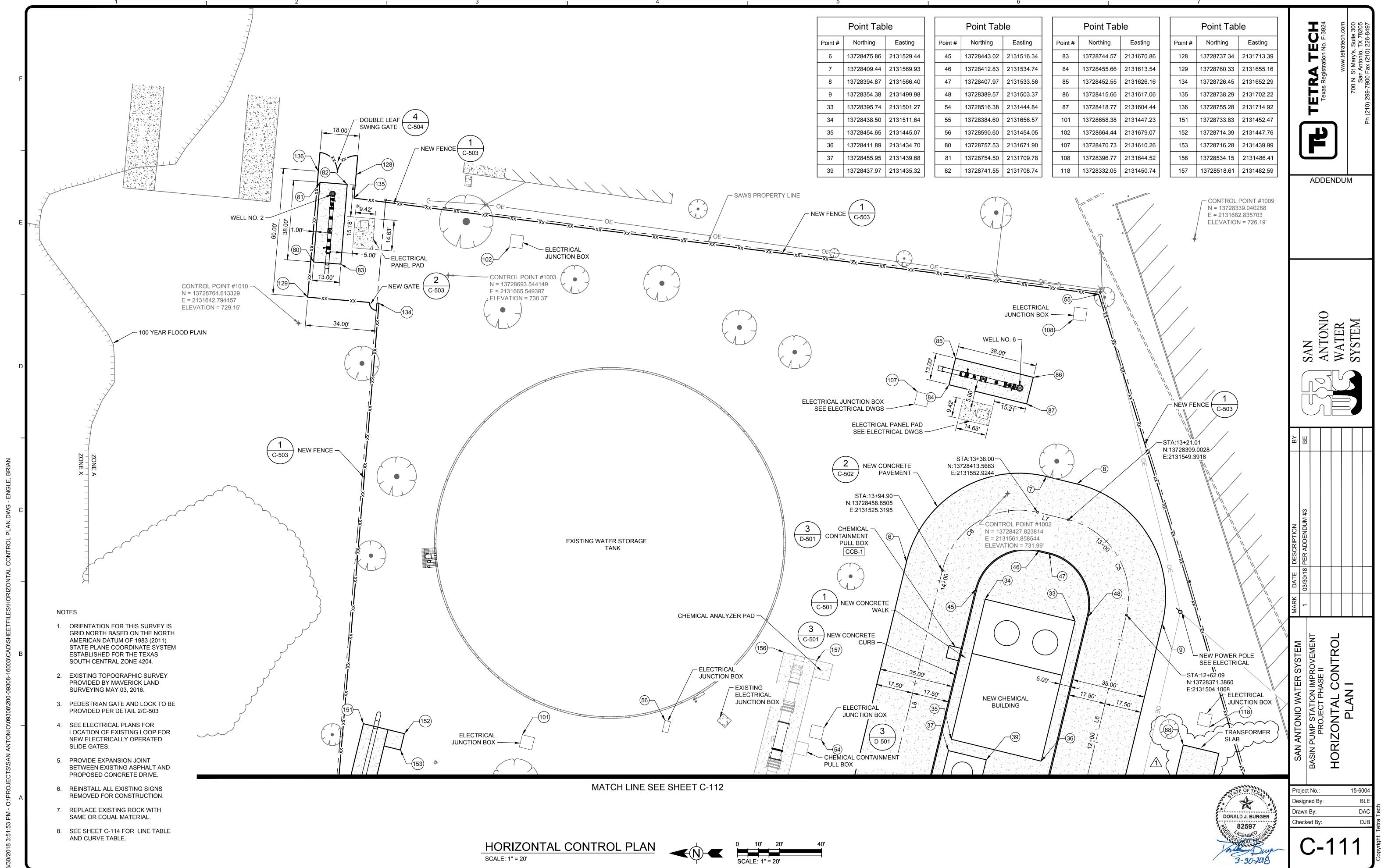
This addendum is comprised of a total of <u>17</u> pages (including attachments).

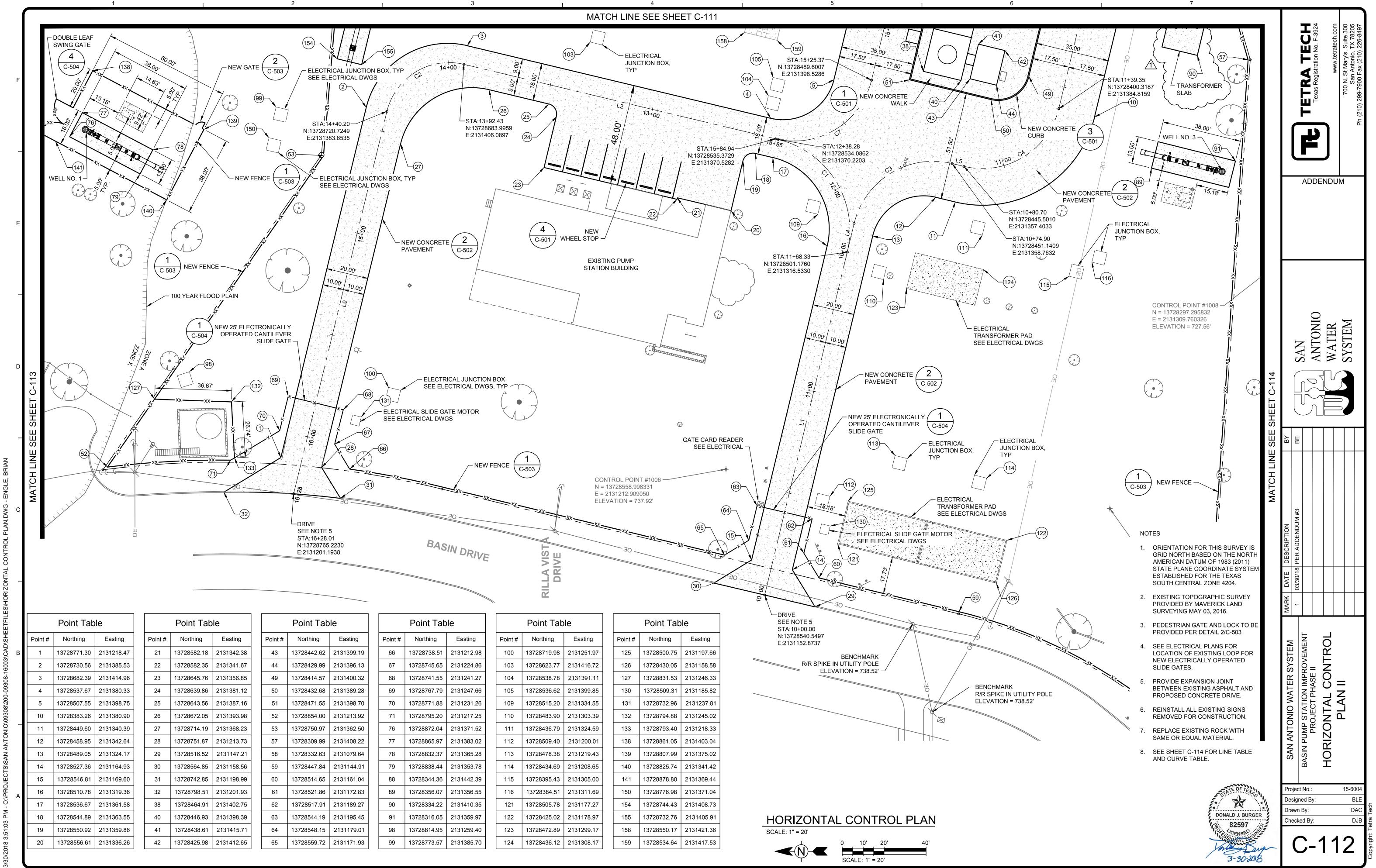


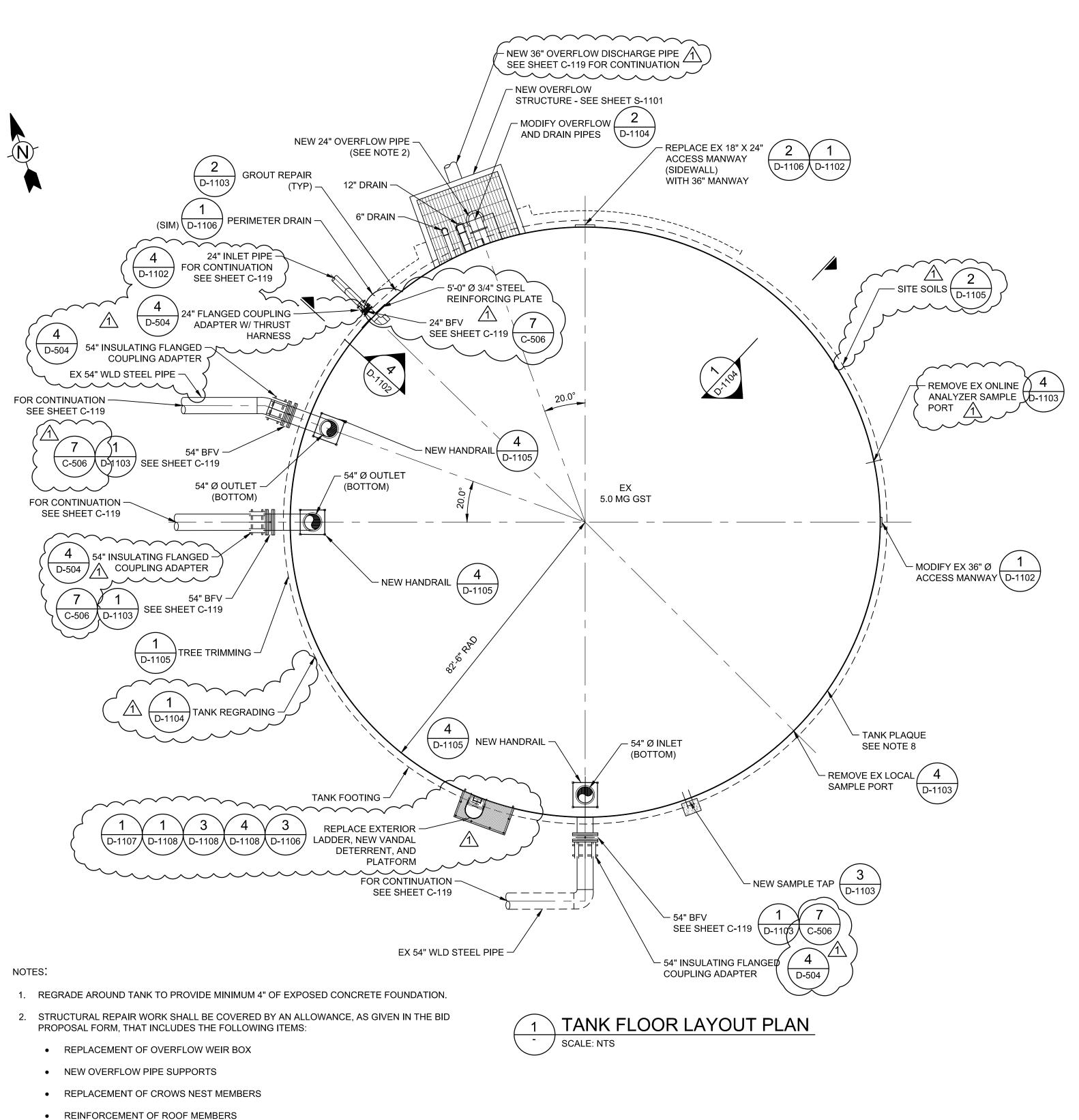
Don Burger, P.E.

Tetra Tech, Inc.

END OF ADDENDUM NO. 3







- REPLACE 36" X 42" ACCESS HATCH, INTERIOR LADDER & TOP HANDRAIL - SEE NOTE 6 - MODIFY EX 12" / 2GOOSENECK D-1102 - REPLACE OVERFLOW WEIR BOX, SEE NOTE 2 D-1105 REPLACE / 3 36" AST CENTER VENT  $2 \setminus MODIFY EX 12" -$ SEE NOTE 7 GOOSENECK - REPLACE EX CROWS NEST, SEE NOTE 2 - MODIFY EX 12"/ 2 GOOSENECK 2 \ MODIFY EX 12" \D-1102*|* GOOSENECK VENT ∽ NEW STEEL ( PLATFORM \D-1107 - REPLACE 36" X 42" ACCESS HATCH, INTERIOR LADDER, & TOP HANDRAIL SEE NOTES 3 AND 4 TANK ROOF LAYOUT PLAN SCALE: NTS

- REINFORCEMENT OF ROOF MEMBERS
- INSTALL SAFETY CHAINS AT PRIMARY HATCH OPENING. REPLACE INTERIOR LADDER WITH OSHA - COMPLIANT STEEL LADDER. PROVIDE SLIP - RESISTANT RUNGS AND ADEQUATE TOE CLEARANCE (EXTEND LADDER BRACKETS 7 INCHES). /1 5. COVER ALL EXPOSED OPENINGS ON TANK ROOF (TO PREVENT INGRESS OF INSECTS, RAIN WATER,
- PROVIDE SSPC SP 6 SURFACE PREPARATION ON EXTERIOR SURFACES (INCLUDING TANK ROOF). APPLY 3 - COAT EXTERIOR COATING SYSTEM WITH FLUOROPOLYMER FINISH. TANK EXTERIOR
- PROVIDE SSPC SP 10 SURFACE PREPARATION ON ALL INTERIOR SURFACES AND SUPPORT MEMBERS.

COATING SHALL MATCH EXISTING COLOR (WHICH IS FOREST GREEN).

REMOVE AND CLEAN PLAQUE PRIOR TO PAINTING. REATTACH PLAQUE AFTER EXTERIOR COATING IS APPLIED.



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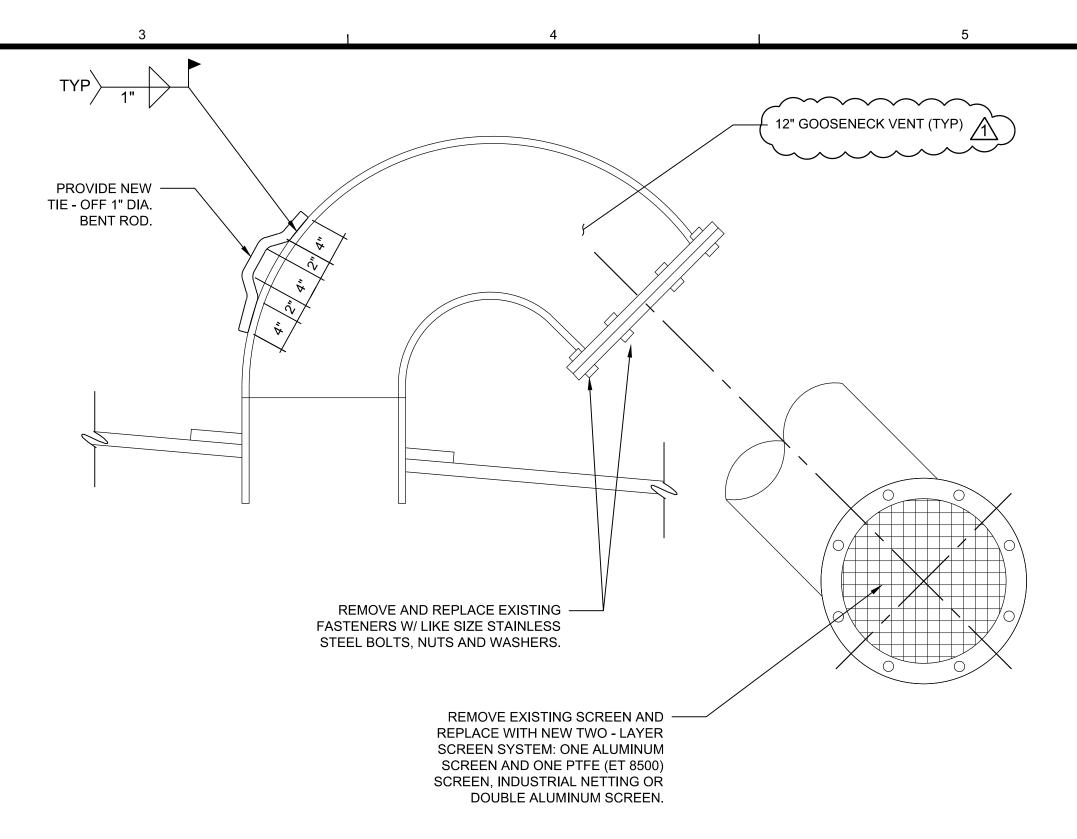
ADDENDUM



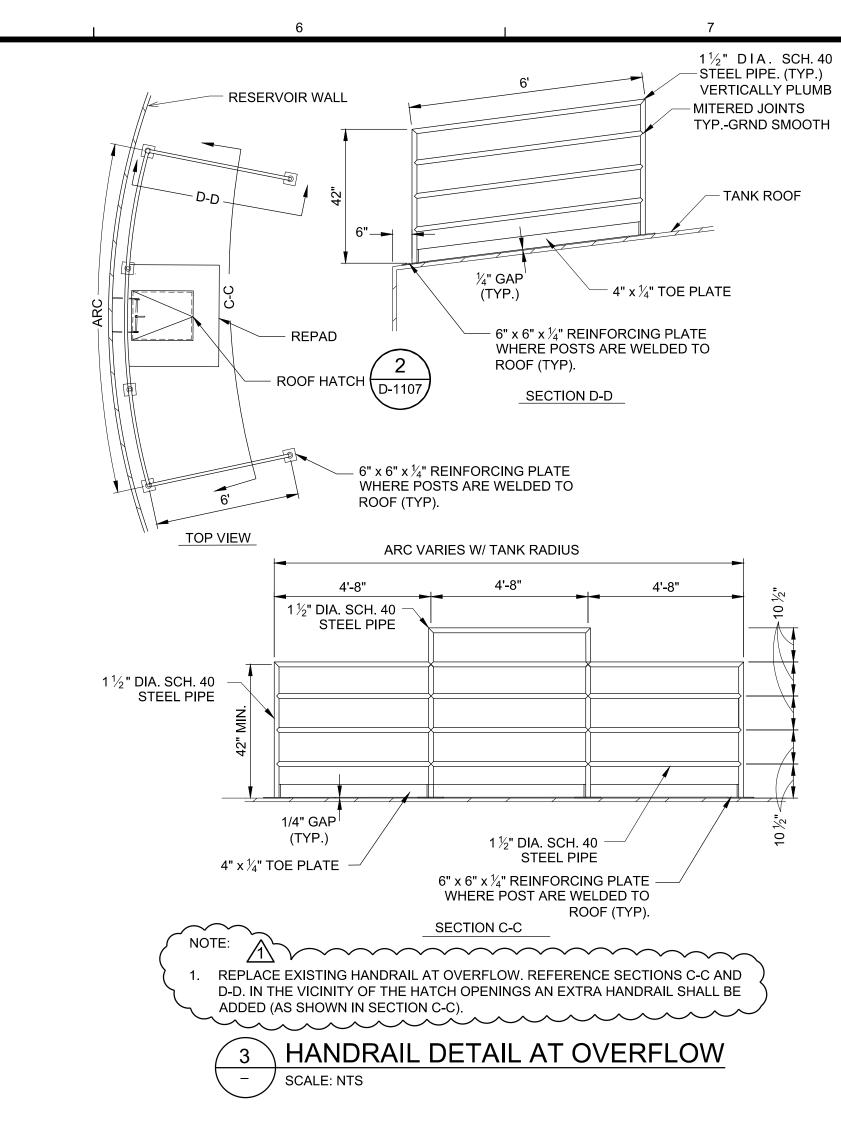
# NOTES:

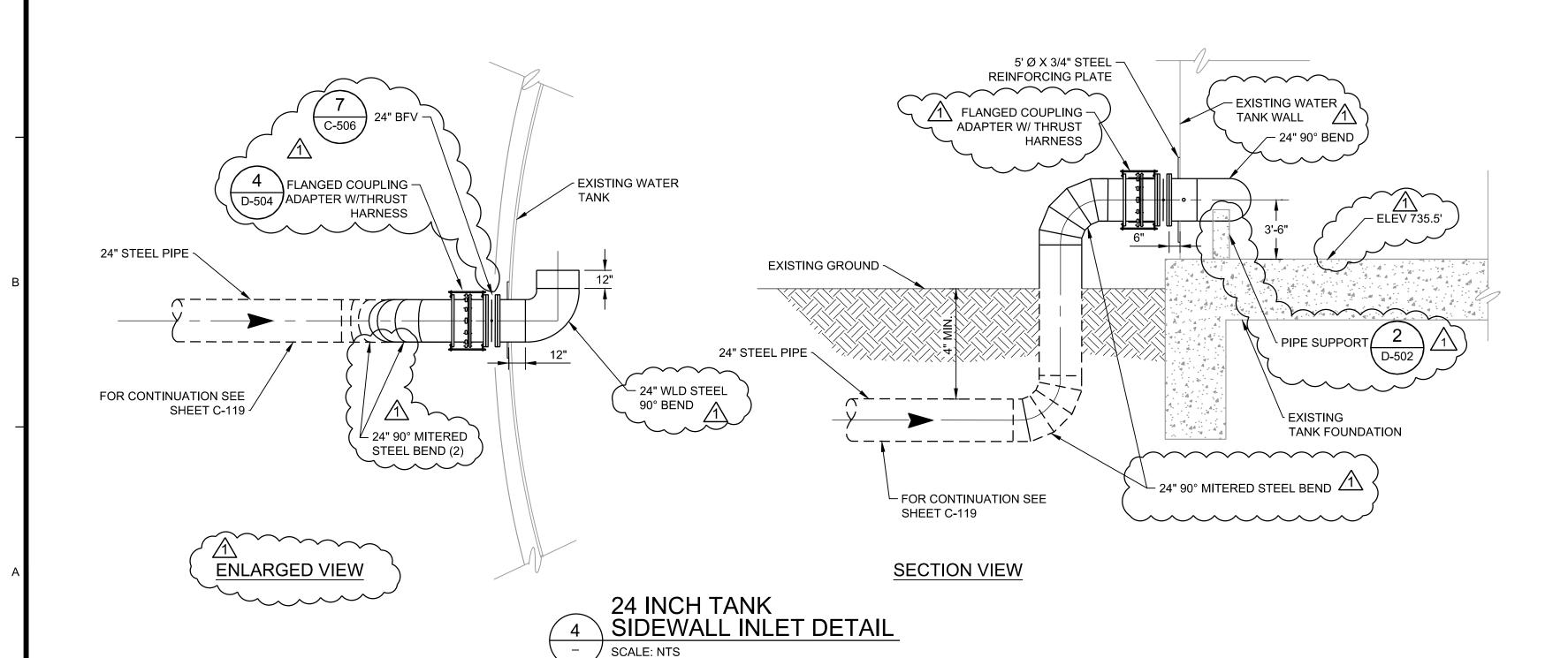
- 1. MANWAY SIZES: 36" Ø MANWAY
- PROVIDE NEW 1/4" CLOTH INSERTED GASKETS, S.S. NUTS, BOLTS & WASHERS AND REINSTALL FOR EACH EXISTING MANWAY.
- 3. INSTALL NEW "CONFINED SPACE" SIGNAGE FOR BOTH MANWAYS (ONE EXISTING, ONE PROPOSED) PER OSHA REGULATIONS.





2 GOOSENECK VENT
- SCALE: NTS







TETRA TECH
Texas Registration No. F-3924
www.tetratech.com

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ADDENDUM

SAN ANTONIC WATER SYSTEM

DENDUM #3

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1 03/30/18 PER ADDENDUM #3

SAN ANTONIO WATER SYSTEM
SIN PUMP STATION IMPROVEMENT
PROJECT PHASE II ADDENDUM
BASIN PS
TANK DETAILS

Project No.: 200-09308-16003

Designed By: BM

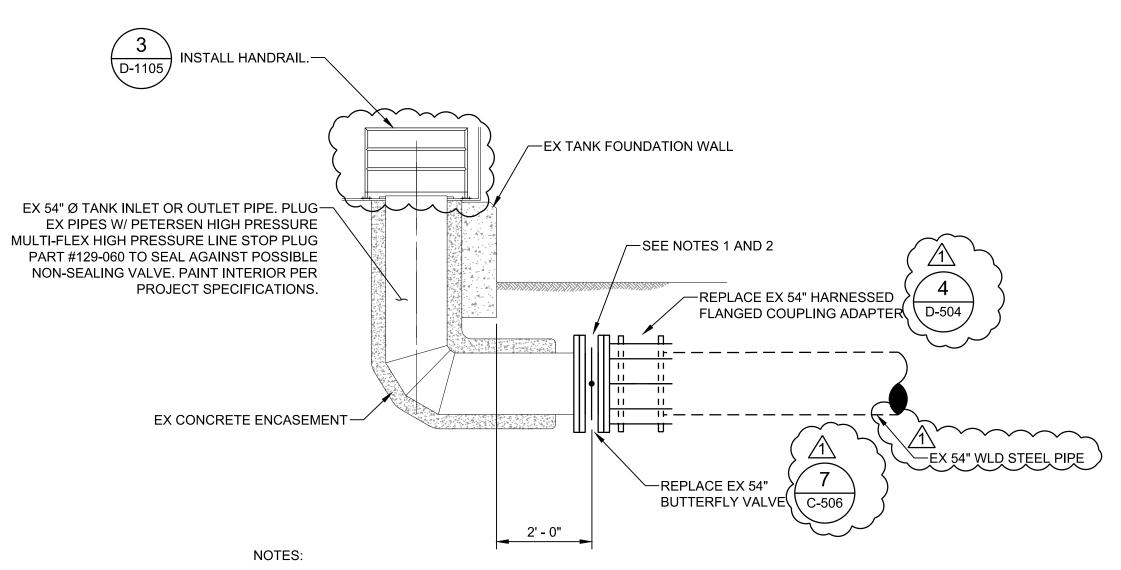
Designed By:

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D-1102



- REPAIR GROUT BETWEEN TANK BASE AND CONCRETE FOUNDATION. SEAL WITH SIKAFLEX FOLLOWING REGROUT. NOTE: GROUT TO BE PLACED AFTER EX TANK WALL —— FILLING OF TANK.

- 1. REPLACE EX 54" ISOLATION BUTTERFLY VALVE, ON TANK OUTLETS.
- 2. INSTALL 54" BUTTERFLY ON TANK INLET.
- 3. THE SCHEMATIC REPRESENTATION IS FOR ONE OF THE 54" OUTLET PIPES. POSITIONING OF MECHANICAL COUPLINGS AND VALVE MANHOLES WILL VARY FOR THE OTHER 54" OUTLET PIPE AS WELL AS THE 54" INLET PIPE. REFERENCE THE TANK FLOOR LAYOUT PLAN GIVEN ON SHEET D-1101.





1" MIN.





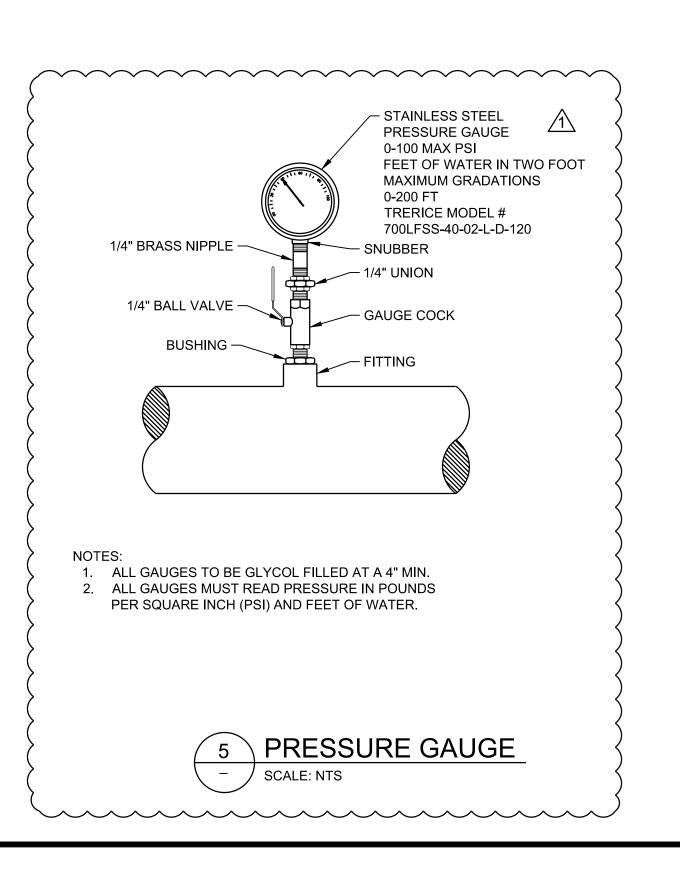
LOCAL SAMPLE PORT

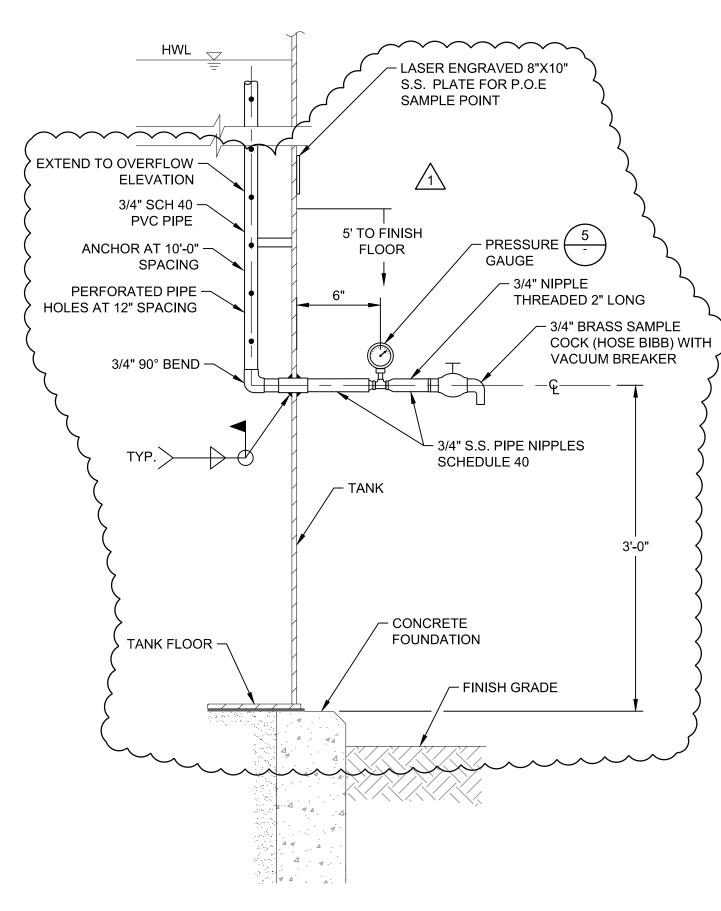
ONLINE ANALYZER SAMPLE PORT

# NOTES:

- 1. REMOVE AND PLUG EXISTING SAMPLE PORT.
- 2. REMOVE AND PLUG EXISTING SAMPLE PORT. RELOCATE TO TANK FILL LINE A MINIMUM OF 20 FT FOLLOWING ALL CHEMICAL INJECTION POINTS.







# NOTES:

- 1. CONTRACTOR TO VERIFY ALL LENGTHS AND DIMENSIONS PRIOR TO FABRICATION.
- 2. ALL WELDED COUPLINGS SHALL BE RATED FOR 3000 LBS.
- 3. ALL LAPPED SEAL WELDS SHALL BE MAG SEAL WELDS AND SHALL BE X-RAY

PROVIDE PIPING INSULATION. /1

3 SAMPLE TAP SCALE: NTS

ADDENDUM

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SAN ANTONIO WATER SYSTEM

Project No.: 200-09308-16003 esigned By:

Checked By:

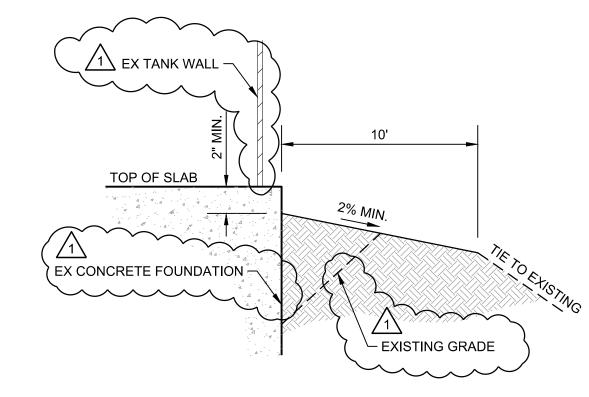
Drawn By:

BILL D. MARRIOTT

88701

REGRADE AROUND TANK TO \ PROVIDE 2" MINIMUM OF EXPOSED CONCRETE FOUNDATION AND POSITIVE ( DRAINAGE AWAY FROM TANK.

TANK REGRADING



NOTE:

1. TIE TO EXISTING GRADE. TRANSITION TO SHEET FLOW.

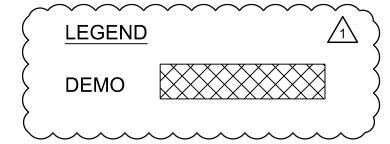
TANK REGRADING DETAIL SCALE: NTS

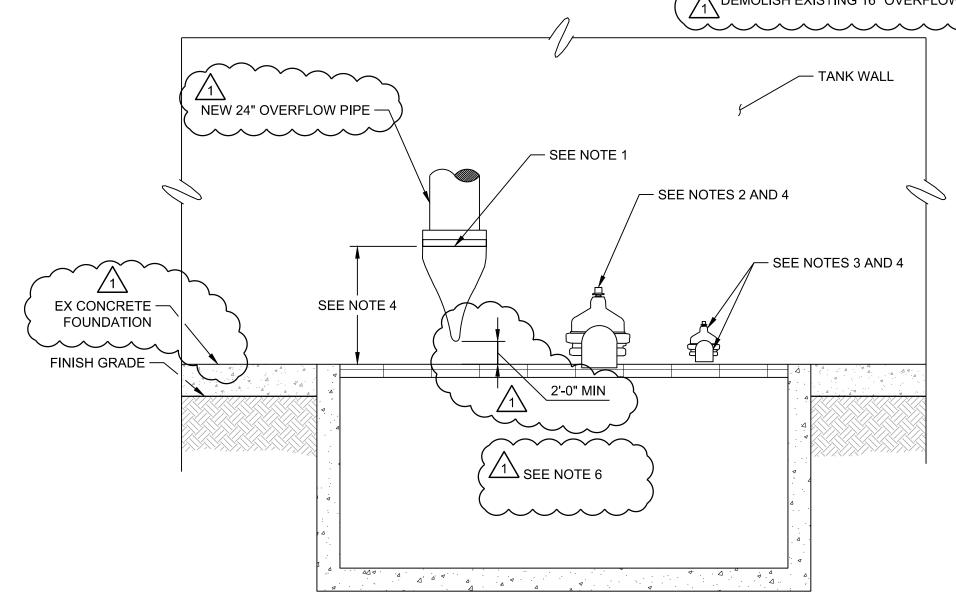


# **DEMOLITION**

NOTES:

- 1. REMOVE EXISTING 12" AND 6" GATE VALVES ON TANK DRAIN LINES.
- 2. DEMOLISH EXISTING OVERFLOW BASIN AND REPLACE, REFER TO SHEET S-1101
- REMOVE EXISTING COUNTERWEIGHTED FLAP GATE AND  $\bigwedge$  DEMOLISH EXISTING 16" OVERFLOW PIPE.





NOTES: INSTALL NEW 24" TIDEFLEX SERIES 35 CHECK VALVE OR  $\stackrel{\wedge}{\sim}$  EQUAL ON NEW 24" OVERFLOW PIPE.

2. INSTALL NEW 12" GATE VALVE ON 12" DRAIN LINE. 3. FOR EXISTING 6" DRAIN LINE, PROVIDE NEW 6" GATE VALVE AND NEW 6" 90° BEND.

- 4. PROVIDE ADEQUATE AIR GAP BETWEEN PIPE DISCHARGE AND TOP OF OVERFLOW BASIN. COORDINATE REQUIREMENTS WITH ENGINEER.
- 5. ALL PIPING (EXISTING AND NEW) SHALL BE PAINTED AS PER PROJECT SPECIFICATIONS.
- 6. NEW OVERFLOW BASIN, INTO WHICH OVERFLOW PIPE AND DRAIN LINES WILL DISCHARGE IS GIVEN ON SHEET S-1101. APPROXIMATE BASIN DIMENSIONS ARE SHOWN HERE.

MODIFICATIONS

2 OVERFLOW AND DRAIN PIPES SCALE: NTS





ADDENDUM

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SAN ANTONIO WATER SYSTEM
BASIN PUMP STATION IMPROVEMENT
PROJECT PHASE II ADDENDUM

Project No.: 200-09308-16003 Designed By:

Drawn By: Checked By:

# NOTES:

- 1. PRUNE / TRIM TREE ON WEST SIDE OF TANK TO CREATE MINIMUM CLEARANCE OF 10 FT FROM TANK EXTERIOR.
- 2. INSPECT TANK PERIMETER AND PERFORM SIMILAR TRIMMING / PRUNING OPERATION FOR ANY TREE BRANCH WITHIN 10 FT OF THE TANK.
- 3. HIRE ARBORIST TO SUPERVISE TREE TRIMMING AND WOUND DRESSING.



# NOTES:

- 1. TESTING OF SOIL LEAD LEVELS (AT A DISTANCE OF 5 FT FROM THE TANK FOUNDATION) SHALL BE CONDUCTED AT THE FOLLOWING TIMES:
- PRIOR TO THE START OF TANK REHABILITATION OPERATIONS.
- FOLLOWING THE CONCLUSION OF ABRASIVE BLAST CLEANING / PAINTING OPERATIONS.
- 2. COORDINATE WITH ENGINEER ON PROPOSED TESTING APPROACH.
- 3. PROVIDE OWNER AND ENGINEER WITH A COPY OF ALL TEST RESULTS.





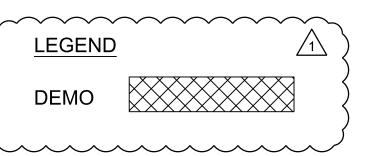
SEE NOTE 1



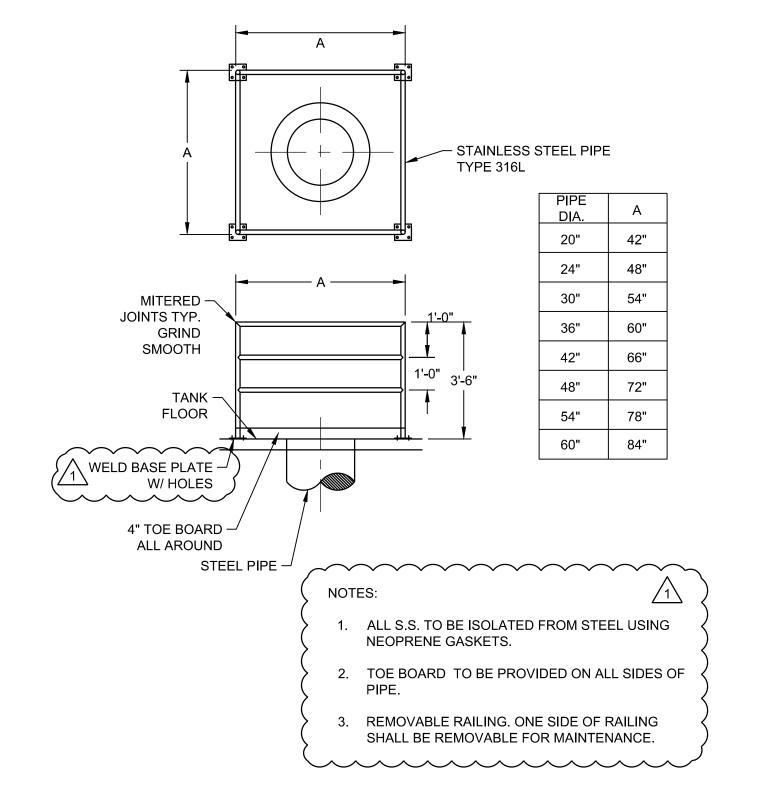


# NOTES:

- 1. REPLACE ACCESS LADDER HATCH FOR OVERFLOW WEIR BOX. SEE DETAIL 2 / D-1107.
- 2. REPLACE HANDRAIL MEETING ALL REQUIREMENTS GIVEN IN DETAIL 3 / D-1102.
- 3. REPLACE ACCESS LADDER TO OVERFLOW WEIR BOX. FOLLOW INTERIOR LADDER GUIDELINES GIVEN IN DETAIL 2 / D-1108.











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ADDENDUM

SAN ANTONIO WATER SYSTEM

30/18 PER ADDENDUM #3 DA

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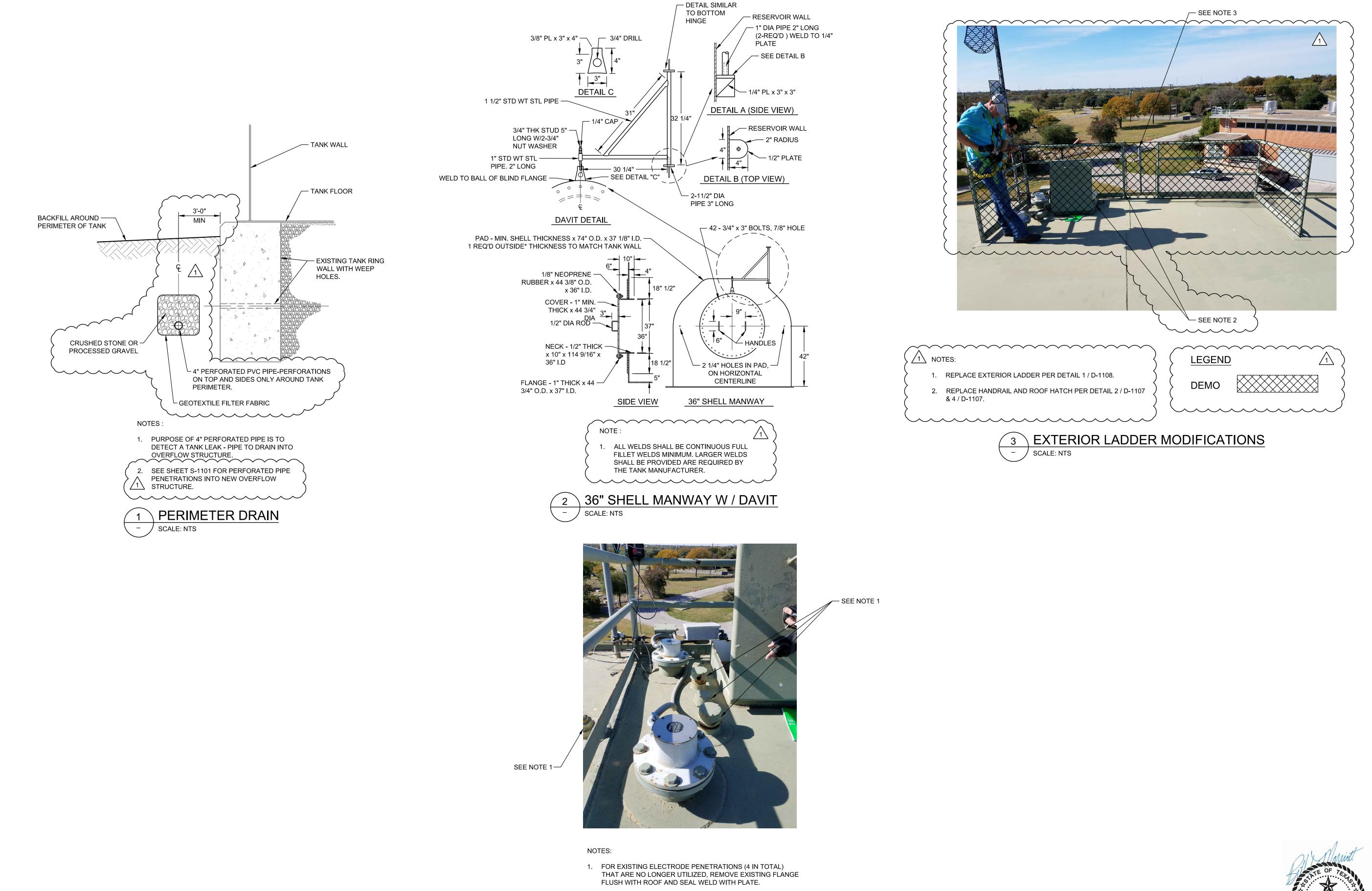
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Project No.: 200-09308-16003

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D-1105



ABANDONED PENETRATIONS

SCALE: NTS

4 NOT USED

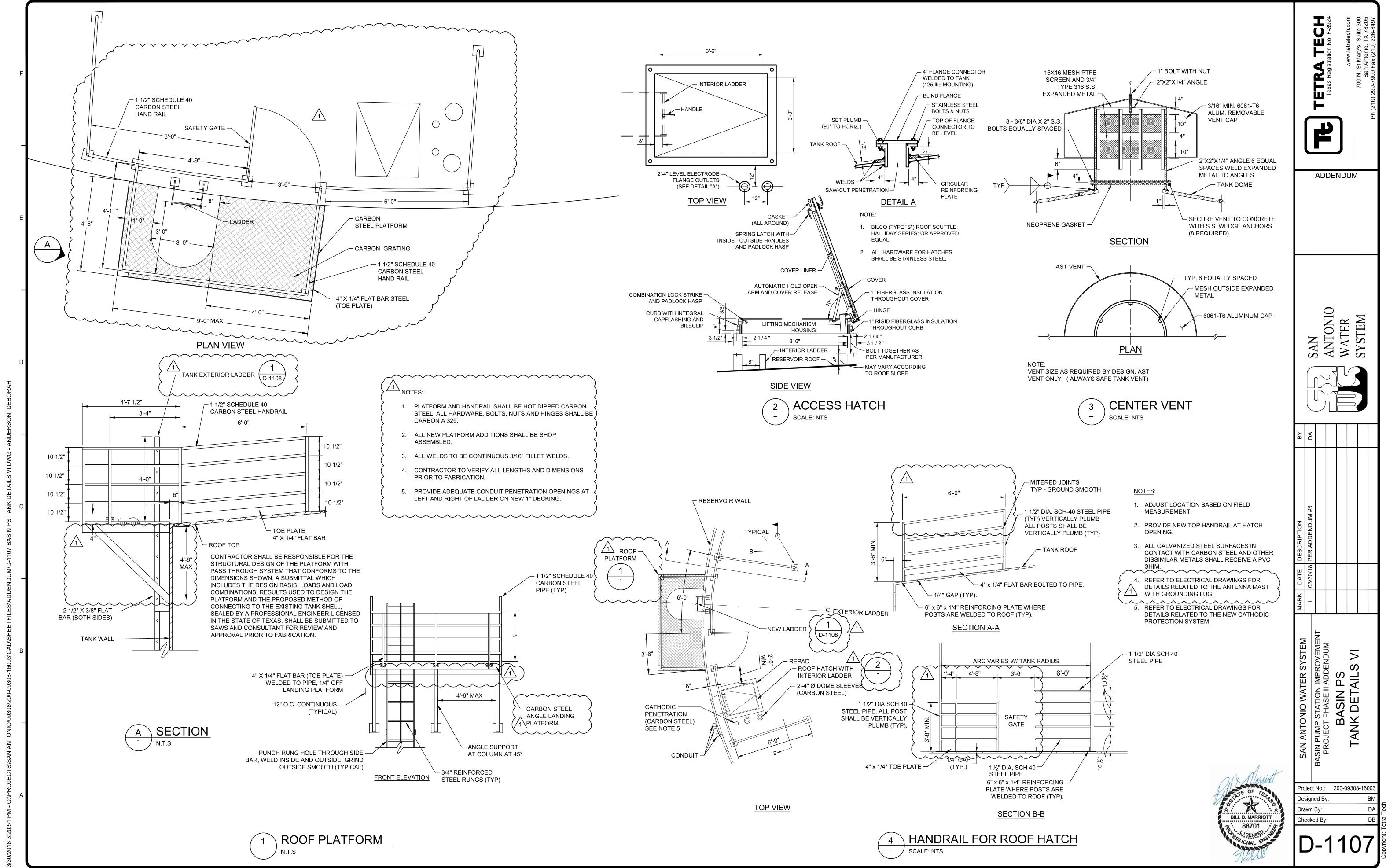
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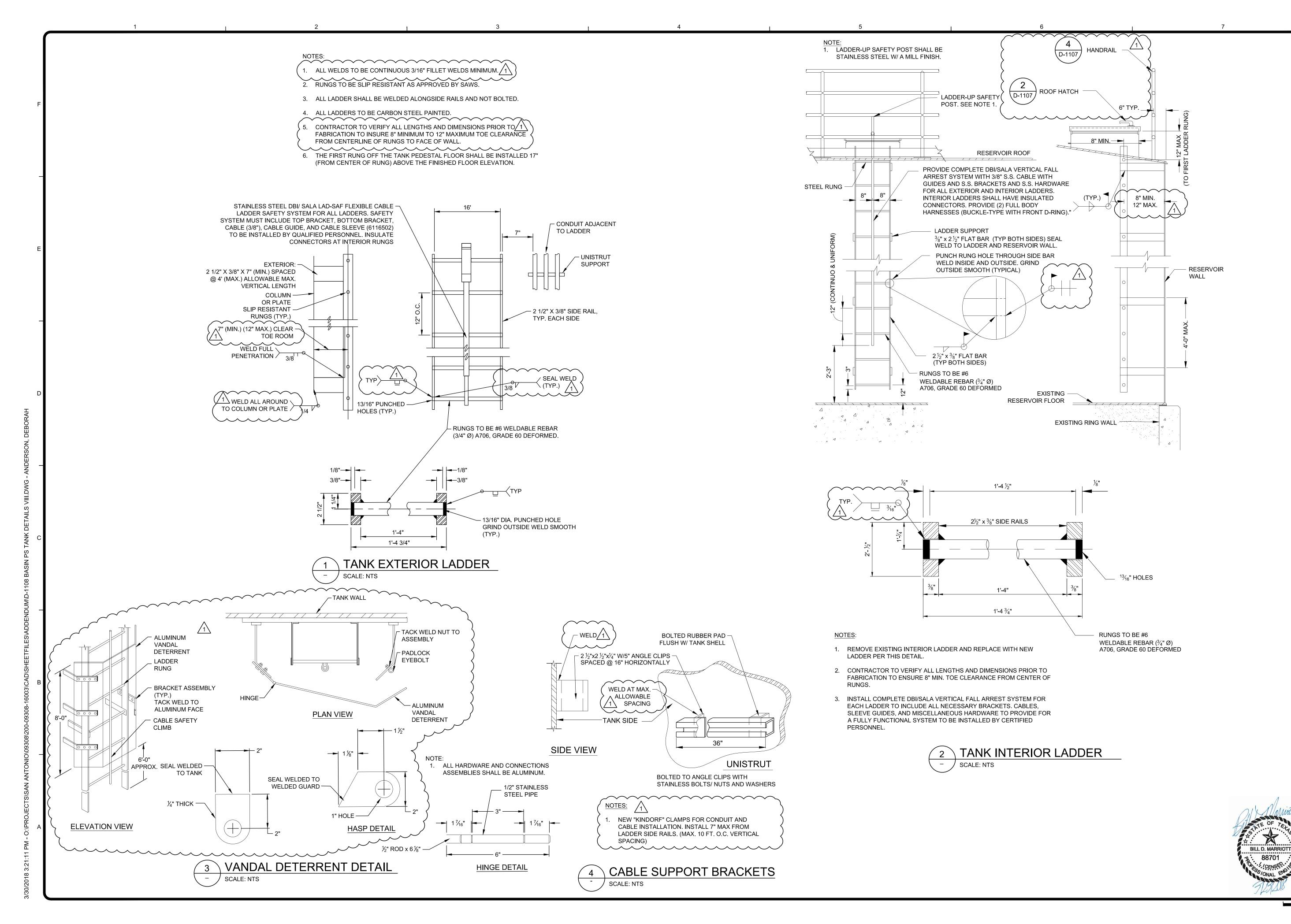
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ADDENDUM

Project No.: 200-09308-16003 esigned By:

Drawn By: Checked By:







ADDENDUM

WATER SYSTEM

Project No.: 200-09308-1600 esigned By Drawn By:

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