



**SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION PROJECT
SAWS Job No. 18-8611
SAWS Solicitation No. CO-00183**

**ADDENDUM No. 2
July 19, 2018**

To Bidder of Record:

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

CLARIFICATIONS

1. The estimated cost for this project has been revised to **\$1,876,900.00**. This total reflects the removal of the replacement of two 48-inch butterfly valves, one on each 48-inch tank outlet pipe. This revised estimate cost is also now indicated on the SAWS website at the following link:
https://www.saws.org/business_center/ContractSol/Drill.cfm?id=3225&View=Yes

REVISIONS TO CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS

INVITATION TO BIDDERS

- a) Page IV-1, replace the first sentence of the last paragraph as follows:

“Sealed bids will be received by Counter Services in the Customer Service office across from the Guard Station, 2800 U.S. Hwy 281 North, Customer Center Building, San Antonio, Texas 78212, until **2:00 PM (CDT) on July 24, 2018.**”

SECTION 01010 – SUMMARY OF WORK

- a) Page 01010-2, Paragraph 1.03.A.2.d., delete this item “New 48-inch Outlet Butterfly Valves” in its entirety.

SECTION 01025 – MEASUREMENT AND PAYMENT

- a) Page 01025-6, Paragraph 1.12.A.,Item No. 1.1.a.xix., delete this item “New 48-inch tank outlet butterfly valves” in its entirety and renumber subsequent items.

SECTION 13200 – STEEL WATER STORAGE TANK REHABILITATION

- a) Page 13200-5, Paragraph 3.01.M., delete this paragraph in its entirety and replace with:

“M. Outlet Handrails: SAWS standard handrails shall be installed at the tank floor around the outlet pipe penetrations as noted in the Contract Drawings.”

REVISIONS TO DRAWINGS

SHEET C-2101 – SITE IMPROVEMENT PLAN

- a) Remove Sheet C-2101 in its entirety and replace with the revised version included in this Addendum. New butterfly valves on the 48-inch outlet pipes have been removed and replaced with temporary plugs.

SHEET S-2103 – REHABILITATION PLANS

- a) Remove Sheet S-2103 in its entirety and replace with the revised version included in this Addendum. The Engineer’s seal has been signed and dated.

SHEET S-2104 – DETAILS

- a) Remove Sheet S-2104 in its entirety and replace with the revised version included in this Addendum. The Engineer’s seal has been signed and dated.

SHEET S-2105 – DETAILS

- a) Remove Sheet S-2105 in its entirety and replace with the revised version included in this Addendum. The Engineer’s seal has been signed and dated.

SHEET D-2103 – MALTSBERGER TANK FLOOR & ROOF LAYOUT PLANS

- a) Remove Sheet D-2103 in its entirety and replace with the revised version included in this Addendum. New butterfly valves on the 48-inch outlet pipes have been removed and replaced with temporary plugs.

SHEET D-2105 – MALTSBERGER TANK DETAILS II

- a) Remove Sheet D-2105 in its entirety and replace with the revised version included in this Addendum. Detail 3, 48” Outlet Pipes, has been updated to indicate that the existing outlet butterfly valves will remain intact and that a temporary plug will be installed on these lines.

SHEET D-2108 – MALTSBERGER TANK DETAILS V

- a) Remove Sheet D-2108 in its entirety and replace with the revised version included in this Addendum. In Detail 3, 36" Tank Inlet (Sidewall), the centerline elevation of the below grade 36-inch inlet pipe has been updated.

The remainder of the bid documents remain unchanged.

This addendum is comprised of a total of 10 pages (including attachments).

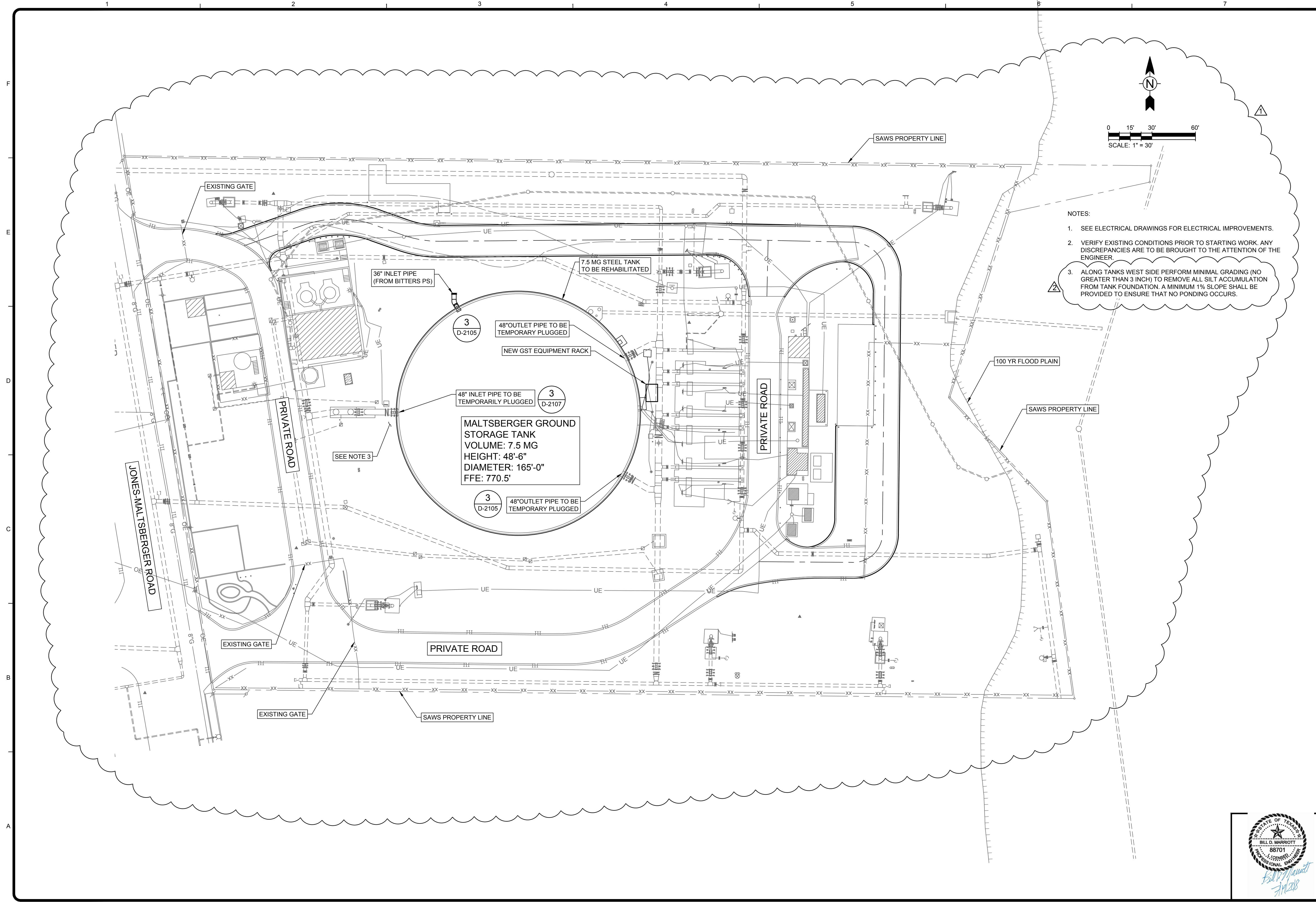


Bill D. Marriott, P.E.
Tetra Tech, Inc.



END OF ADDENDUM No. 2

7/19/2018 4:13:37 PM - C:\PROJECTS\SAN ANTONIO\09308\200-09308-18001-C\CAD\SHEETFILES\MALTSBERGER TANK.C - SITE IMPROVEMENT PLAN DWG - GARZA, NOEL



- NOTES:
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL IMPROVEMENTS.
 - VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - ALONG TANKS WEST SIDE PERFORM MINIMAL GRADING (NO GREATER THAN 3 INCH) TO REMOVE ALL SILT ACCUMULATION FROM TANK FOUNDATION. A MINIMUM 1% SLOPE SHALL BE PROVIDED TO ENSURE THAT NO PONDING OCCURS.

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ADDENDUM

SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION	BY	DA	NG
1	07/16/18	PER ADDENDUM NO. 1			
2	07/19/18	PER ADDENDUM NO. 2			

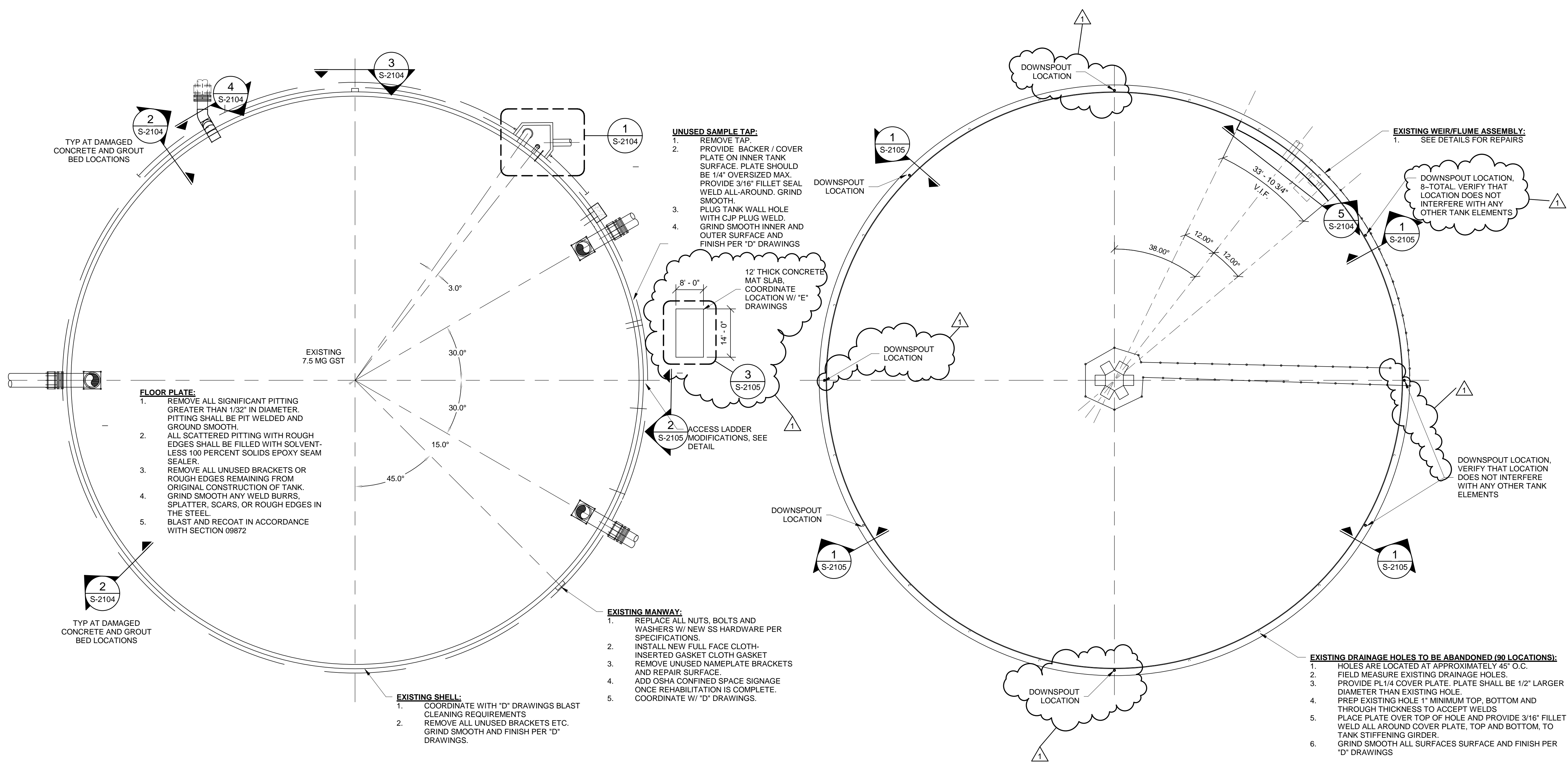
SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION
SITE IMPROVEMENT PLAN

PROJ: 200-09308-18001
DESN: JK
DRWN: DA
CHKD: DB



C-2101

Bar measures 1 inch, otherwise drawing is not to scale



UNUSED SAMPLE TAP:

1. REMOVE TAP.
2. PROVIDE BACKER / COVER PLATE ON INNER TANK SURFACE. PLATE SHOULD BE 1/4" OVERSIZED MAX. PROVIDE 3/16" FILLET SEAL WELD ALL-AROUND. GRIND SMOOTH.
3. PLUG TANK WALL HOLE WITH CJP PLUG WELD.
4. GRIND SMOOTH INNER AND OUTER SURFACE AND FINISH PER 'D' DRAWINGS

FLOOR PLATE:

1. REMOVE ALL SIGNIFICANT PITTING GREATER THAN 1/32" IN DIAMETER. PITTING SHALL BE PIT WELDED AND GROUND SMOOTH.
2. ALL SCATTERED PITTING WITH ROUGH EDGES SHALL BE FILLED WITH SOLVENT-LESS 100 PERCENT SOLIDS EPOXY SEAM SEALER.
3. REMOVE ALL UNUSED BRACKETS OR ROUGH EDGES REMAINING FROM ORIGINAL CONSTRUCTION OF TANK.
4. GRIND SMOOTH ANY WELD BURRS, SPLATTER, SCARS, OR ROUGH EDGES IN THE STEEL.
5. BLAST AND RECOAT IN ACCORDANCE WITH SECTION 09872

EXISTING MANWAY:

1. REPLACE ALL NUTS, BOLTS AND WASHERS W/ NEW SS HARDWARE PER SPECIFICATIONS.
2. INSTALL NEW FULL FACE CLOTH-INSERTED GASKET CLOTH GASKET
3. REMOVE UNUSED NAMEPLATE BRACKETS AND REPAIR SURFACE.
4. ADD OSHA CONFINED SPACE SIGNAGE ONCE REHABILITATION IS COMPLETE.
5. COORDINATE W/ 'D' DRAWINGS.

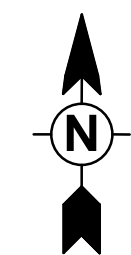
EXISTING SHELL:

1. COORDINATE WITH 'D' DRAWINGS BLAST CLEANING REQUIREMENTS
2. REMOVE ALL UNUSED BRACKETS ETC. GRIND SMOOTH AND FINISH PER 'D' DRAWINGS.

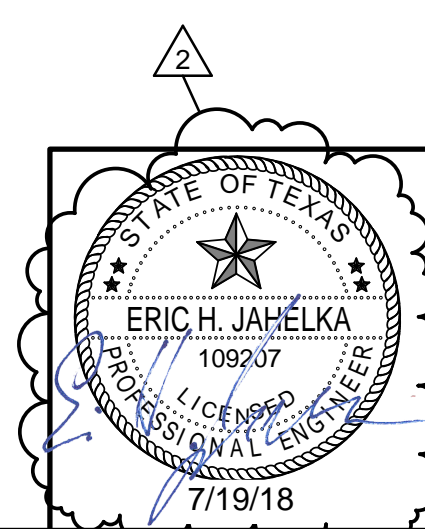
EXISTING DRAINAGE HOLES TO BE ABANDONED (90 LOCATIONS):

1. HOLES ARE LOCATED AT APPROXIMATELY 45' O.C.
2. FIELD MEASURE EXISTING DRAINAGE HOLES.
3. PROVIDE PL 1/4 COVER PLATE. PLATE SHALL BE 1/2" LARGER DIAMETER THAN EXISTING HOLE.
4. PREP EXISTING HOLE 1" MINIMUM TOP, BOTTOM AND THROUGH THICKNESS TO ACCEPT WELDS
5. PLACE PLATE OVER TOP OF HOLE AND PROVIDE 3/16" FILLET WELD ALL AROUND COVER PLATE, TOP AND BOTTOM, TO TANK STIFFENING GIRDER.
6. GRIND SMOOTH ALL SURFACES SURFACE AND FINISH PER 'D' DRAWINGS

TANK FLOOR AND ROOF LAYOUTS
SCALE: 1/16" = 1'-0"



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TBE FIRM REG. NO. F-199
CONSTRUCTION SERVICES
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SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION	BY
1	7/17/18	PER ADDENDUM #1	
2	7/19/18	PER ADDENDUM #2	

SAN ANTONIO WATER SYSTEM

CENTRAL WATER INTEGRATION PIPELINE

MALTSBERGER TANK REHABILITATION

REHABILITATION PLANS

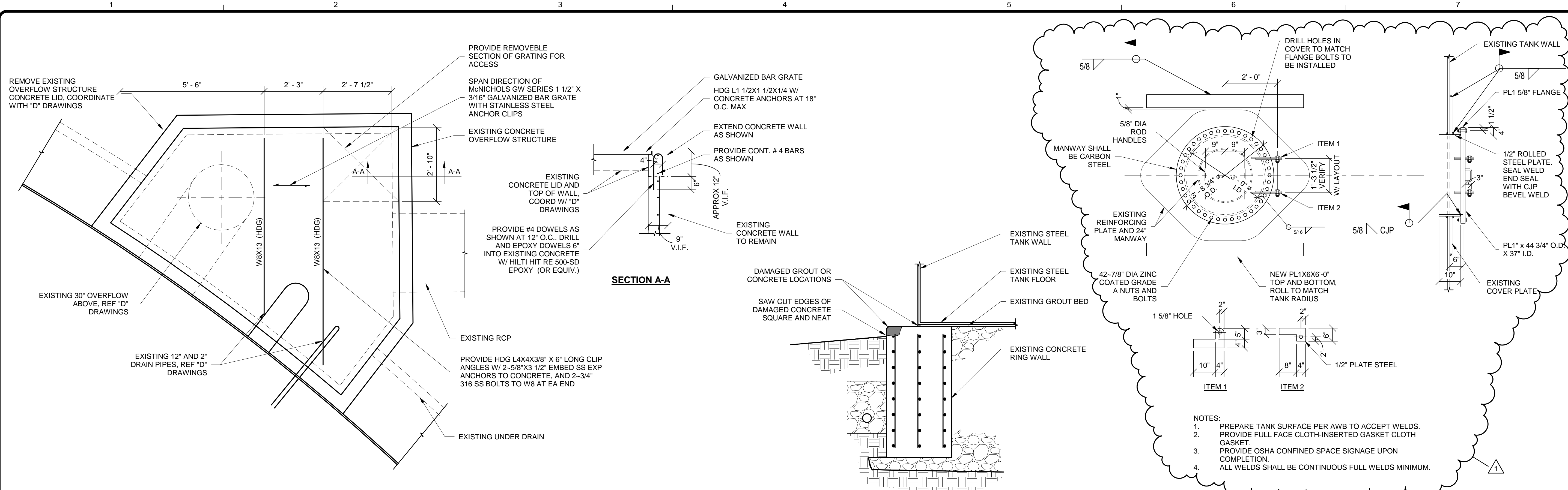
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DESN: EHJ

DRWN: EHJ

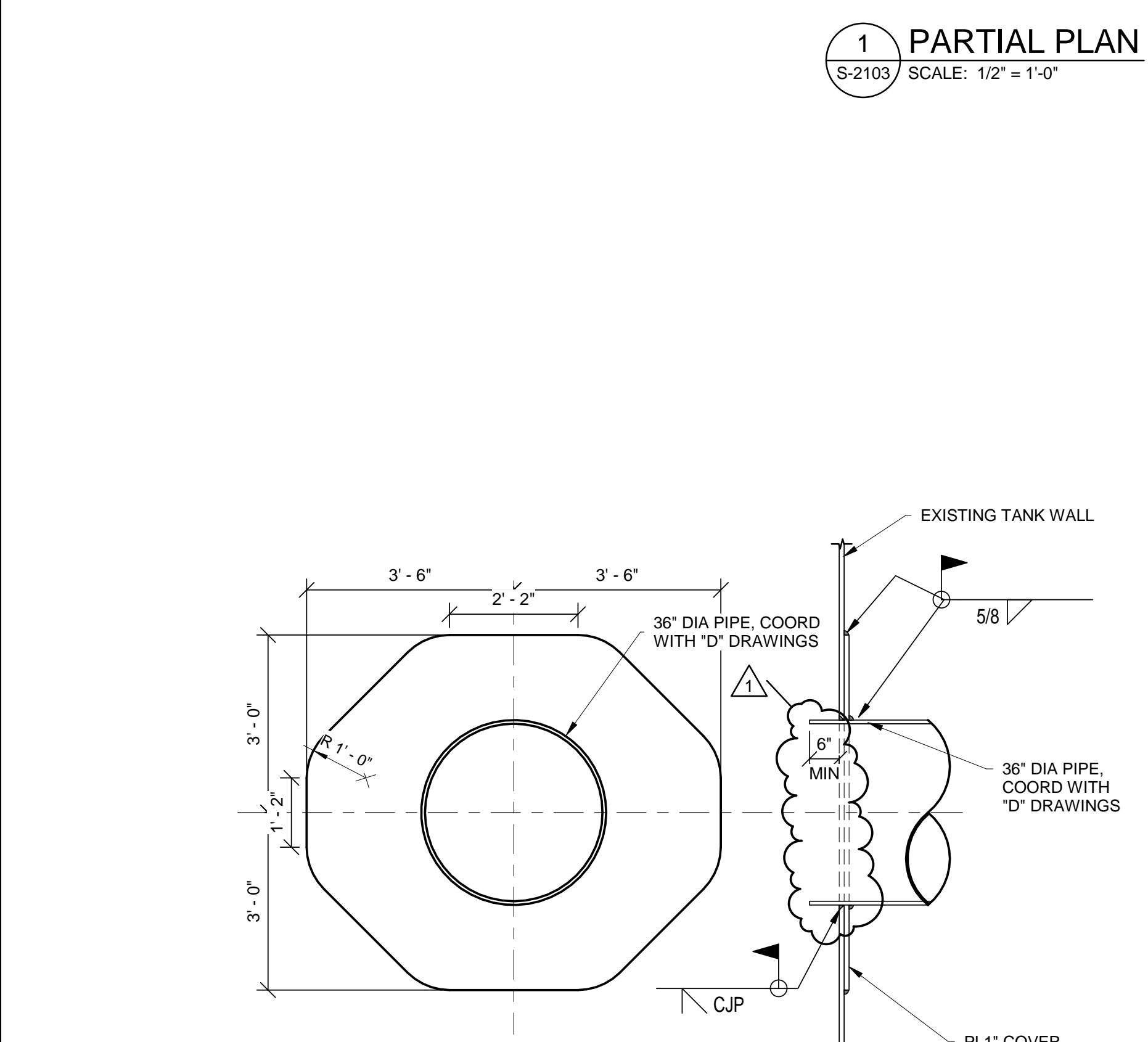
CHKD: SD

S-2103

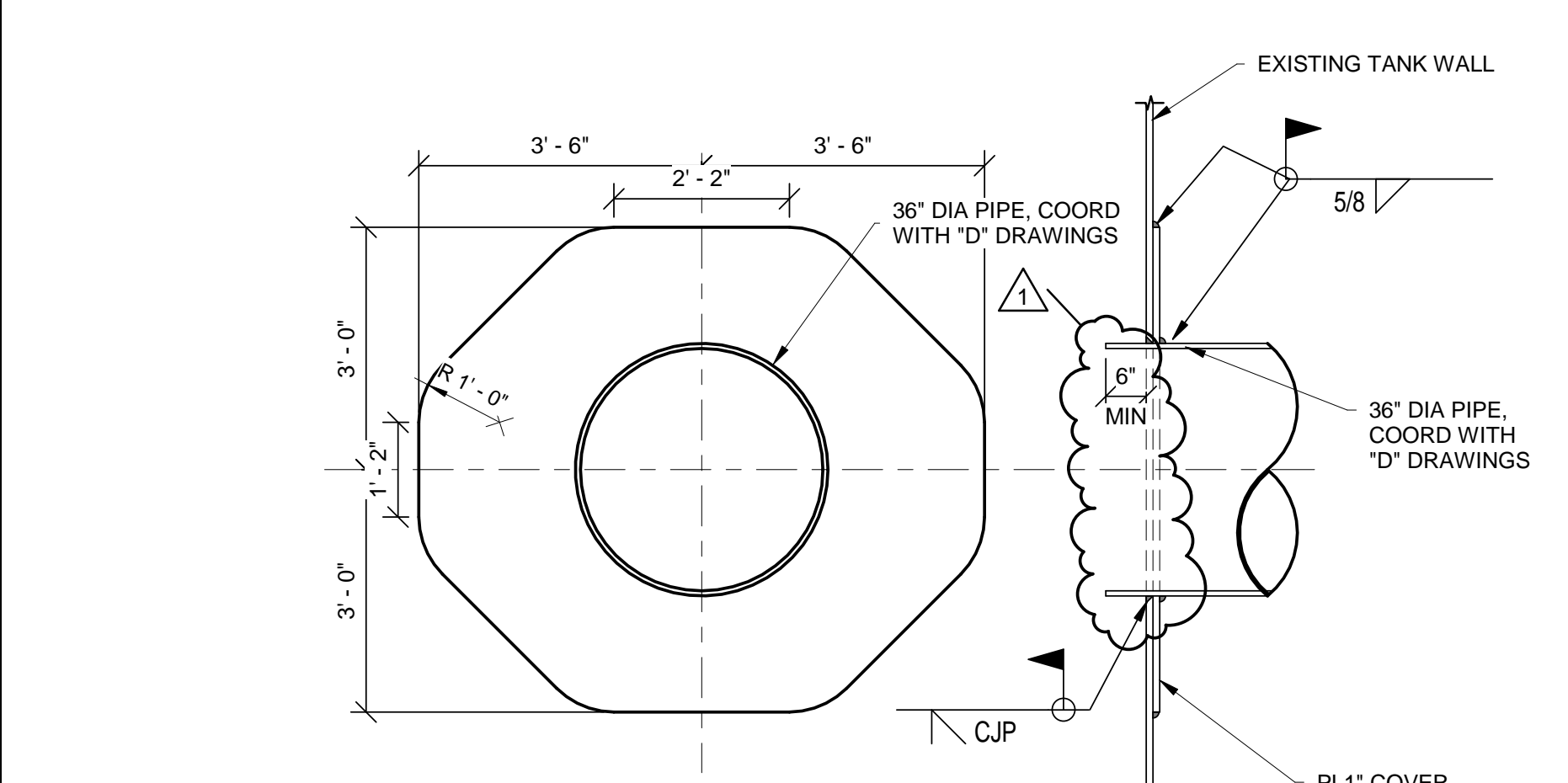


1 PARTIAL PLAN
S-2103 SCALE: 1/2" = 1'-0"

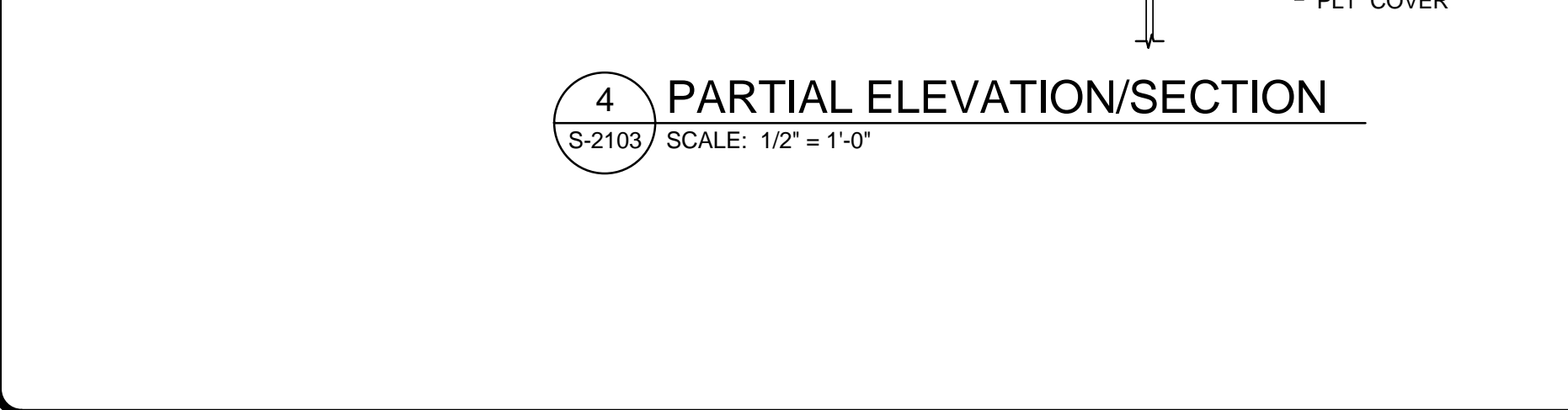
- CONCRETE AND GROUT REPAIR NOTES:**
1. SAWCUT PERIMETER OF CONCRETE REPAIR AREA TO 1/2" DEPTH. DO NOT CUT EXISTING REINFORCING STEEL. CHIP SUBSTRATE TO OBTAIN SURFACE PROFILE OF 1/8" AMPLITUDE. GROUT BED MAY BE CHIPPED/BUSH HAMMERED WITHOUT SAW CUTTING
 2. REMOVE ALL LOOSE AND DETERIORATED CONCRETE/GROUT TO 1/2" MINIMUM DEPTH.
 3. REMOVE ALL LOOSE AND DETERIORATED CONCRETE AROUND ANY EXISTING REINFORCING STEEL EXPOSED BY CONCRETE REMOVAL
 4. SANDBLAST EXISTING REINFORCING STEEL TO REMOVE ALL CONTAMINANTS AND RUST.
 5. CHIP (E) CONC TO MIN 1/2" BEHIND (E) REBAR - TYP.
 6. AREA TO BE PATCHED MUST BE CLEAN AND FREE OF DELETERIOUS MATERIAL. SOAK REPAIR AREA WITH POTABLE WATER.
 7. HAND APPLY A 1/4" MINIMUM THICK LAYER OF VERSA SPEED HORIZONTAL REPAIR MORTAR BY EUCLID CHEM COMPANY OR APPROVED EQUAL. APPLY MORTAR IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. APPLY MORTAR TO SATURATED SURFACE DRY (SSD) SUBSTRATE IN SUCCESSIVE LIFTS IF RECOMMENDED BY MANUFACTURER. EPOXY MORTAR MIN COMPRESSIVE STRENGTH = 6,000 PSI
 8. ALL EXPOSED TANK CONCRETE FOUNDATION AROUND PERIMETER OF TANK SHALL BE SAND BLASTED TO REMOVE ALL PAINT DRIPPINGS



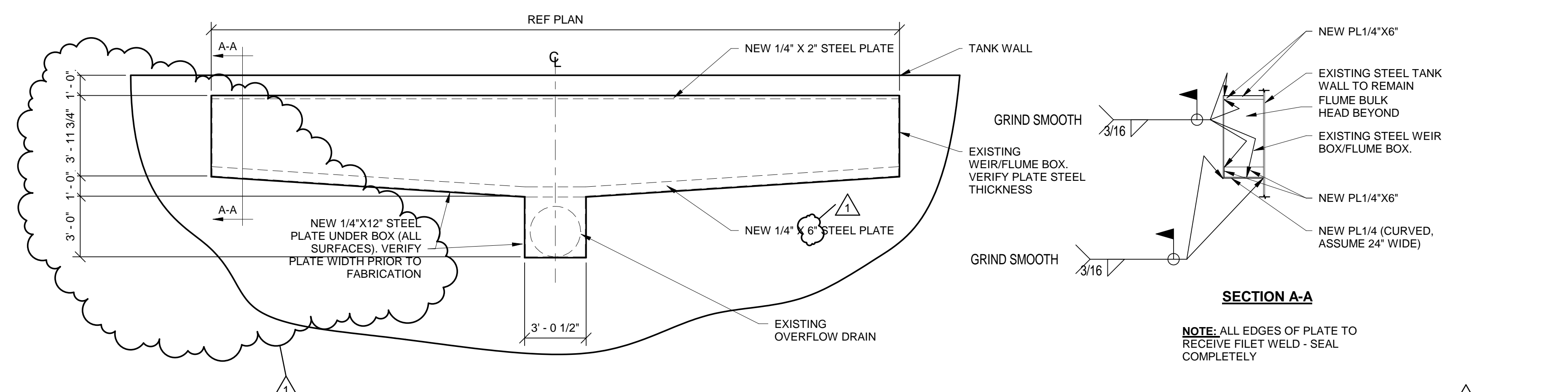
2 SECTION
S-2103 SCALE: 1/2" = 1'-0"



3 PARTIAL ELEVATION/SECTION
S-2103 SCALE: 1/2" = 1'-0"



4 PARTIAL ELEVATION/SECTION
S-2103 SCALE: 1/2" = 1'-0"



5 ELEVATION
S-2103 SCALE: 1/4" = 1'-0"

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ADDENDUM

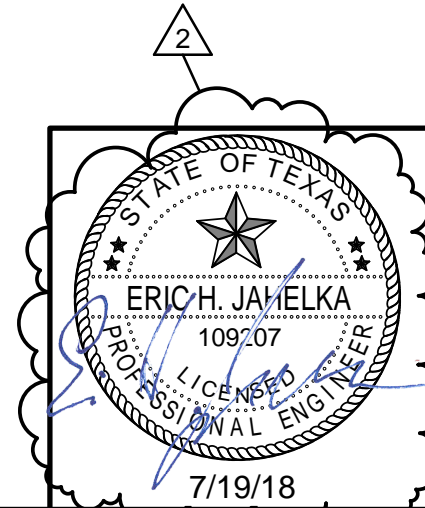
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CONCRETE REPAIR SPECIALISTS
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SAN ANTONIO WATER SYSTEM

MARK	DATE	DESCRIPTION	BY
1	7/17/18	PER ADDENDUM #1	
2	7/19/18	PER ADDENDUM #2	

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION
DETAILS

PROJ: 200-09308-18001
DESN: EHJ
DRWN: EHJ
CHKD:

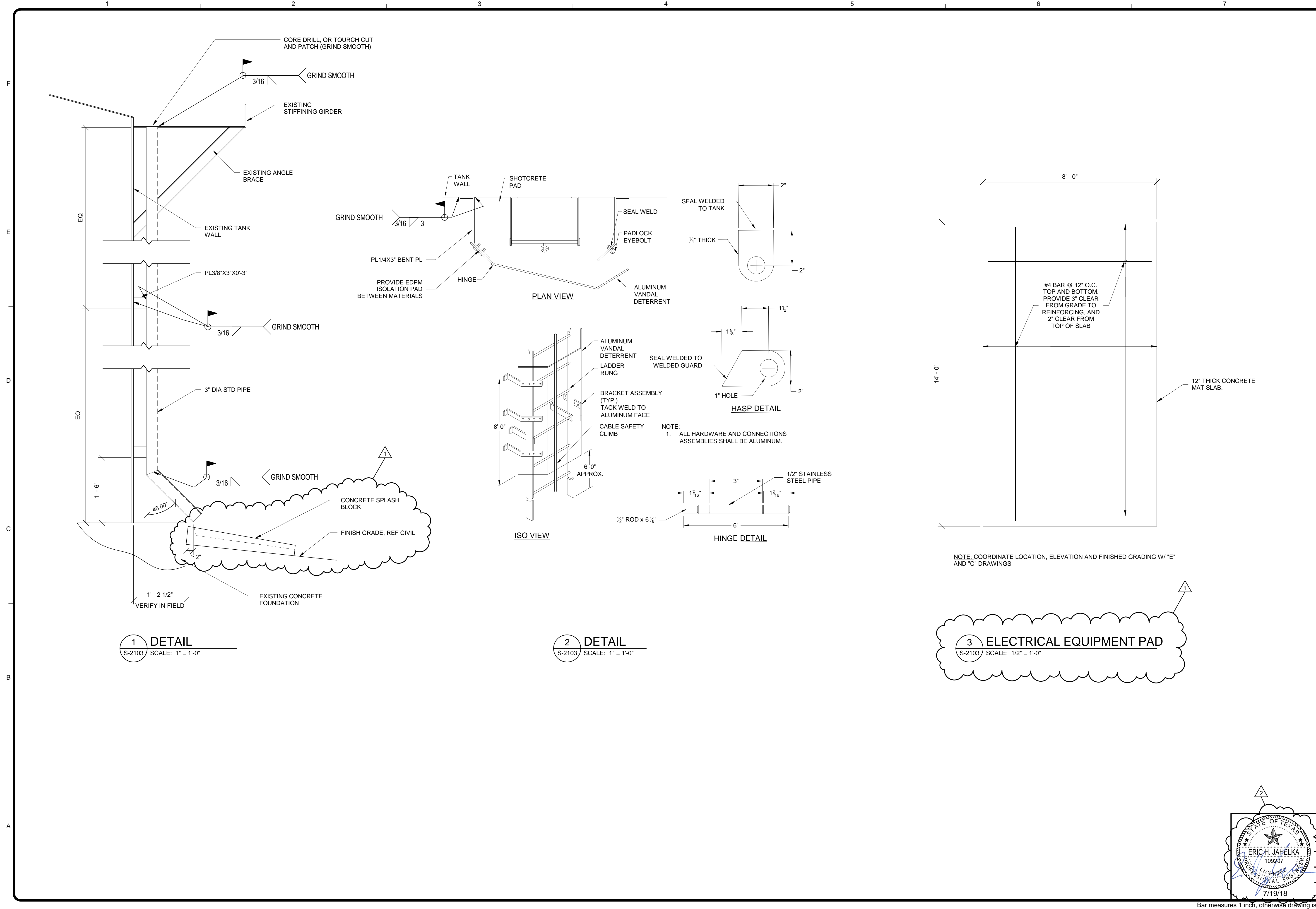


S-2104

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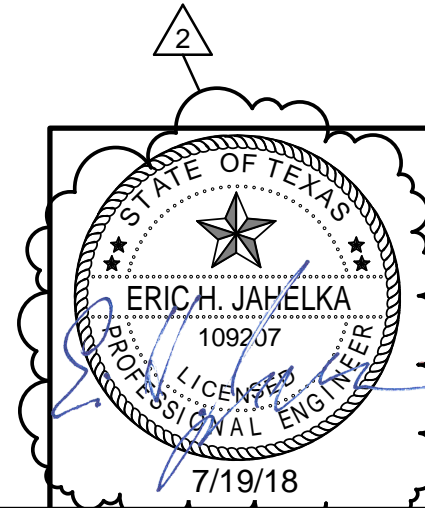


1 DETAIL
S-2103 SCALE: 1" = 1'-0"

2 DETAIL
S-2103 SCALE: 1" = 1'-0"

3 ELECTRICAL EQUIPMENT PAD
S-2103 SCALE: 1/2" = 1'-0"

NOTE: COORDINATE LOCATION, ELEVATION AND FINISHED GRADING W/ "E" AND "C" DRAWINGS



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ADDENDUM

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10000 W. LOOP W. SUITE 100
DALLAS, TX 75243
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SAN ANTONIO WATER SYSTEM

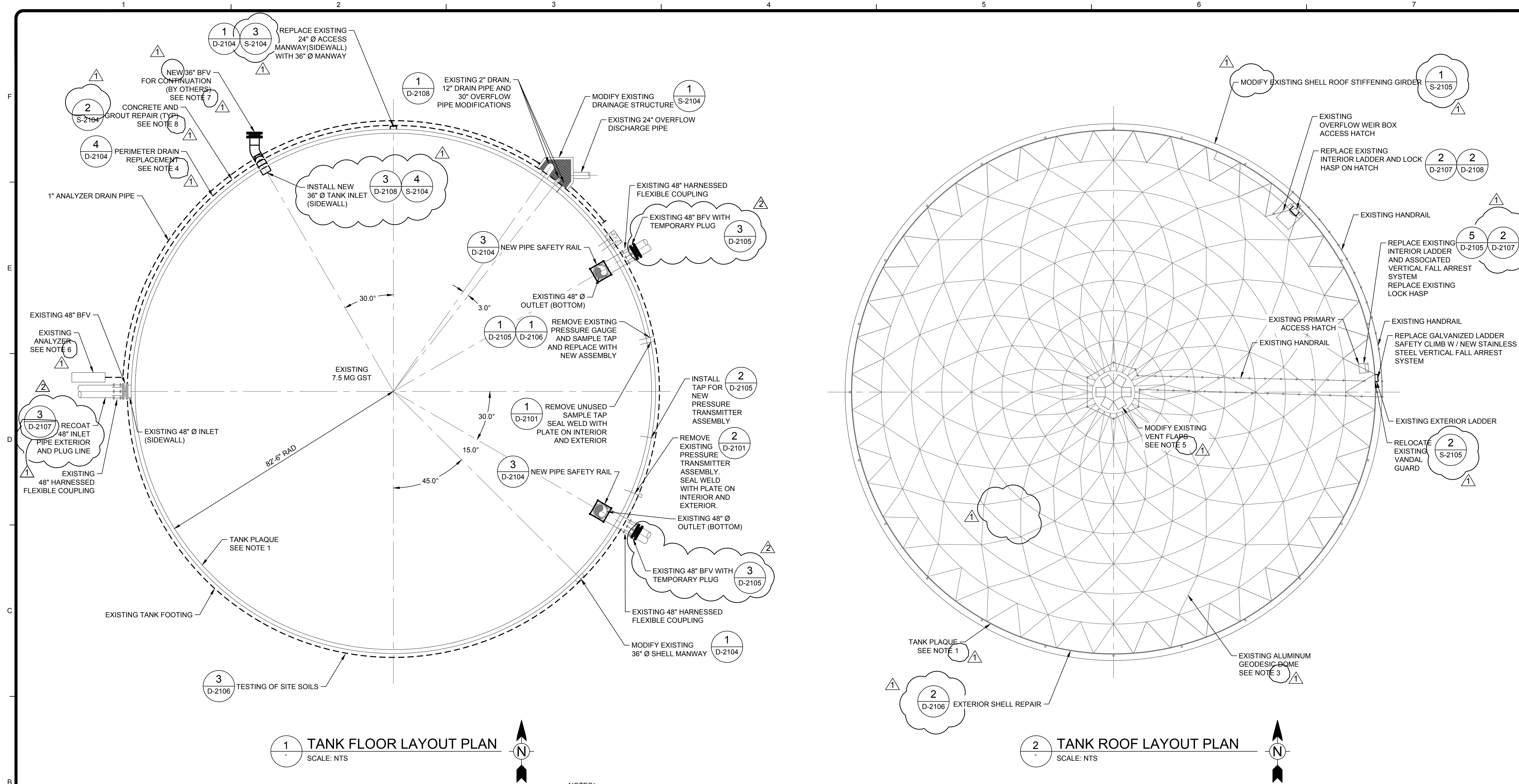
MARK	DATE	DESCRIPTION	BY
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2	7/19/18	PER ADDENDUM #2	

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION
DETAILS

PROJ:	200-09308-18001
DESN:	EHJ
DRWN:	EHJ
CHKD:	EM

S-2105

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1 TANK FLOOR LAYOUT PLAN
SCALE: NTS

2 TANK ROOF LAYOUT PLAN
SCALE: NTS

NOTES:

1. REMOVE AND CLEAN TANK PLAQUE PRIOR TO PAINTING. REATTACH TANK PLAQUE AFTER EXTERIOR COATING IS APPLIED.
2. USE FOLLOWING TANK DIMENSIONS TO ESTIMATE TANK SURFACE AREAS (FOR RECOATING PURPOSES):
 - TANK INSIDE DIAMETER = 165 FT
 - TANK SIDEWALL HEIGHT = 48.5 FT
 - TANK FINISHED FLOOR ELEVATION = 770.5 FT
3. NO MODIFICATIONS SHALL BE MADE TO EXISTING ALUMINUM GEODESIC DOME. CONFINE WORK TO THOSE AREAS ON ROOF THAT ARE ACCESSIBLE VIA THE EXISTING HANDRAIL.
4. REPLACE EXISTING PERIMETER DRAIN ONLY WHERE DAMAGED BY THE WORK OF THE CONTRACTOR.
5. MODIFY VENT CLOSURE FLAPS TO ENSURE THAT INGRESS/EGRESS OF BIRDS AND INSECTS IS PREVENTED. COORDINATE WITH VENT MANUFACTURER TO DETERMINE BEST MEANS TO REDUCE STICKING OF VENT FLAPS DURING OPENING AND CLOSING OPERATIONS.
6. EXISTING ANALYZER DRAIN PIPING SHALL BE REPLACED WITH BURIED 1" SCHEDULE 80 PVC PIPING. NEW PIPING SHALL EXTEND FROM THE ANALYZER TO THE DRAINAGE STRUCTURE. CORE OPENING INTO WALL OF DRAINAGE STRUCTURE TO PERMIT DIRECT DISCHARGE. COORDINATE PIPE PLACEMENT SO THAT IT DOES NOT IMPACT EXISTING PERIMETER DRAIN PIPING.
7. INSTALL 1/4" METAL PLATE AS TEMPORARY COVER FOR 36" BFV.
8. GROUT REPAIR SHALL BE MADE FOR THE ENTIRE TANK CIRCUMFERENCE BETWEEN THE TANK BASE PLATE AND CONCRETE FOUNDATION.



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ADDENDUM

SAN ANTONIO WATER SYSTEM

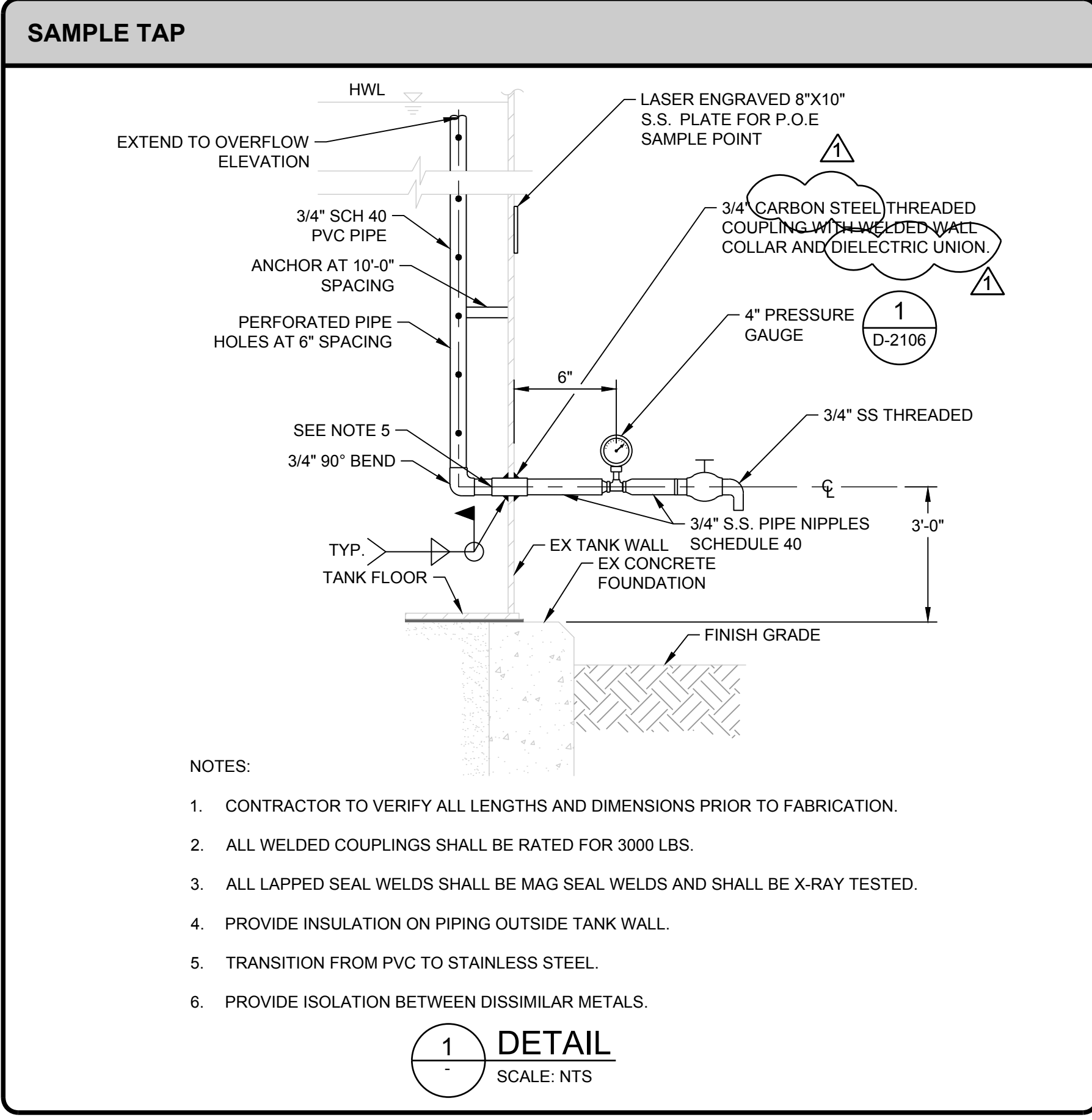
MARK	DATE	DESCRIPTION	BY	DA	NG
1	07/16/18	PER ADDENDUM NO. 1			
2	07/19/18	PER ADDENDUM NO. 2			

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION
MALTSBERGER TANK FLOOR & ROOF LAYOUT PLANS

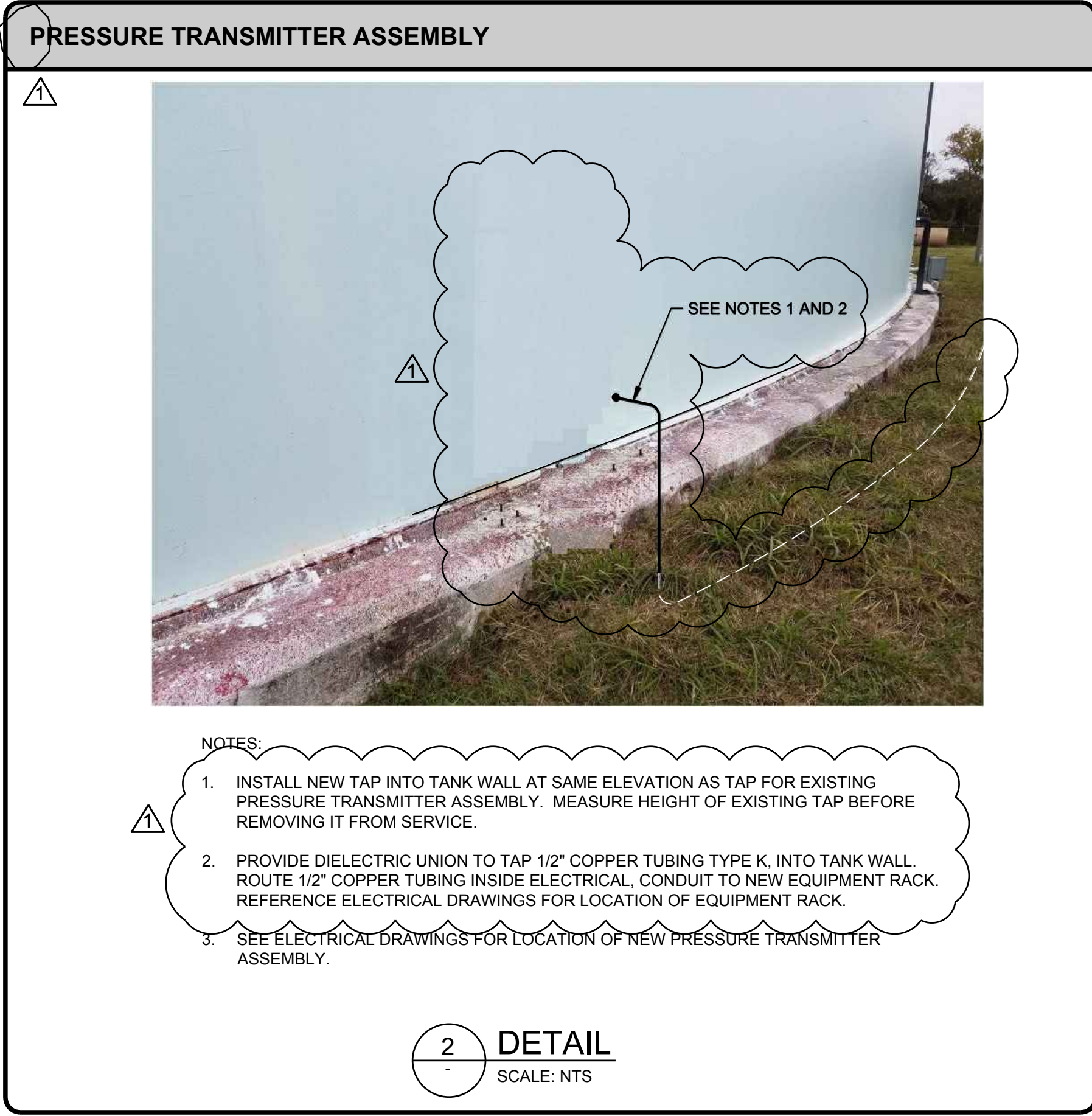
PROJ: 200-09308-18001
DESN: BM
DRWN: DA
CHKD: DB

D-2103

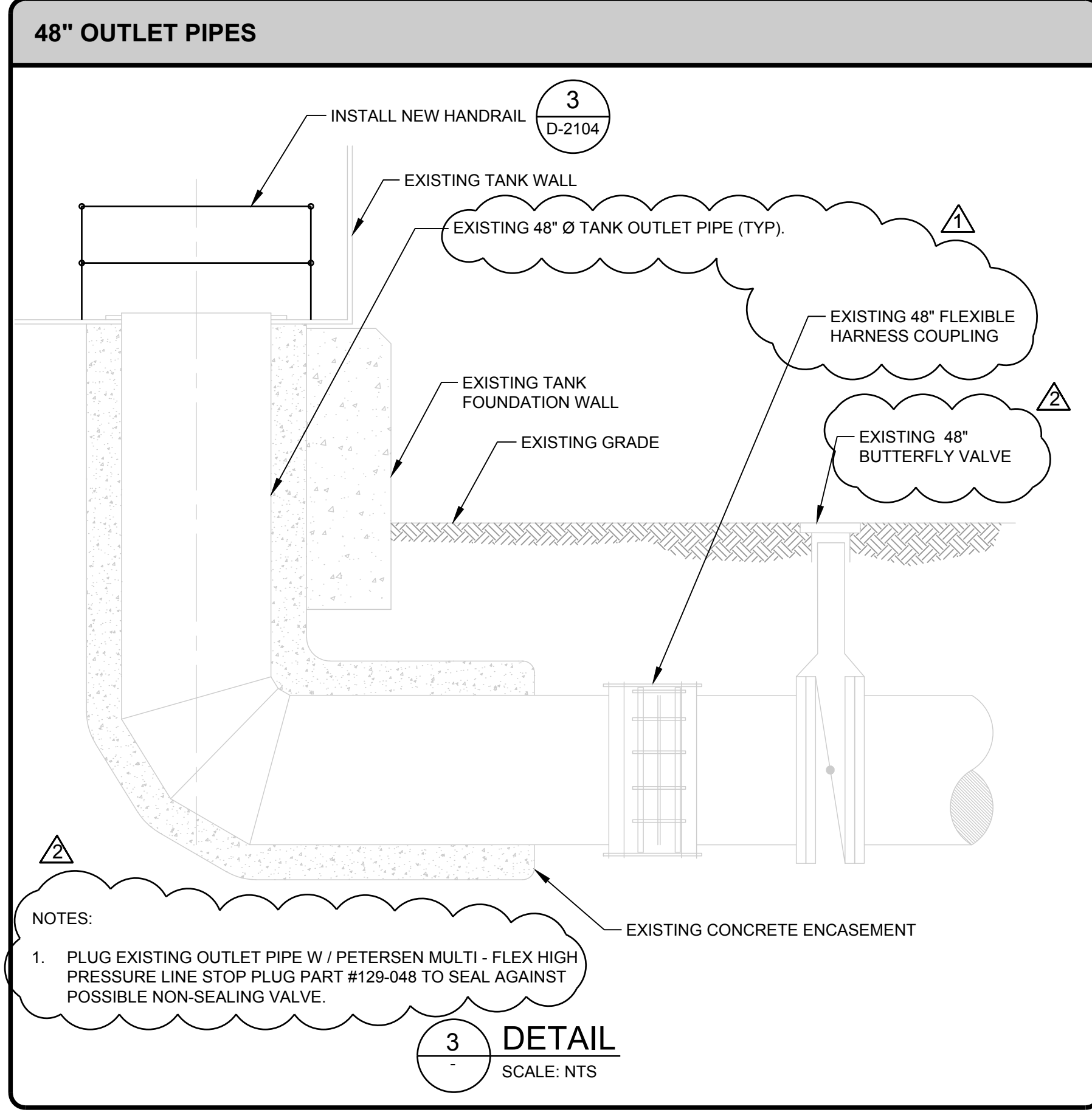
7/19/2018 4:08:08 PM - C:\PROJECTS\SAN ANTONIO\09308\200-09308 - 18001-C\CAD\SHEETFILES\MALTSBERGER TANK ID - MALTSBERGER PS TANK DETAILS II.DWG - GARZA, NOEL



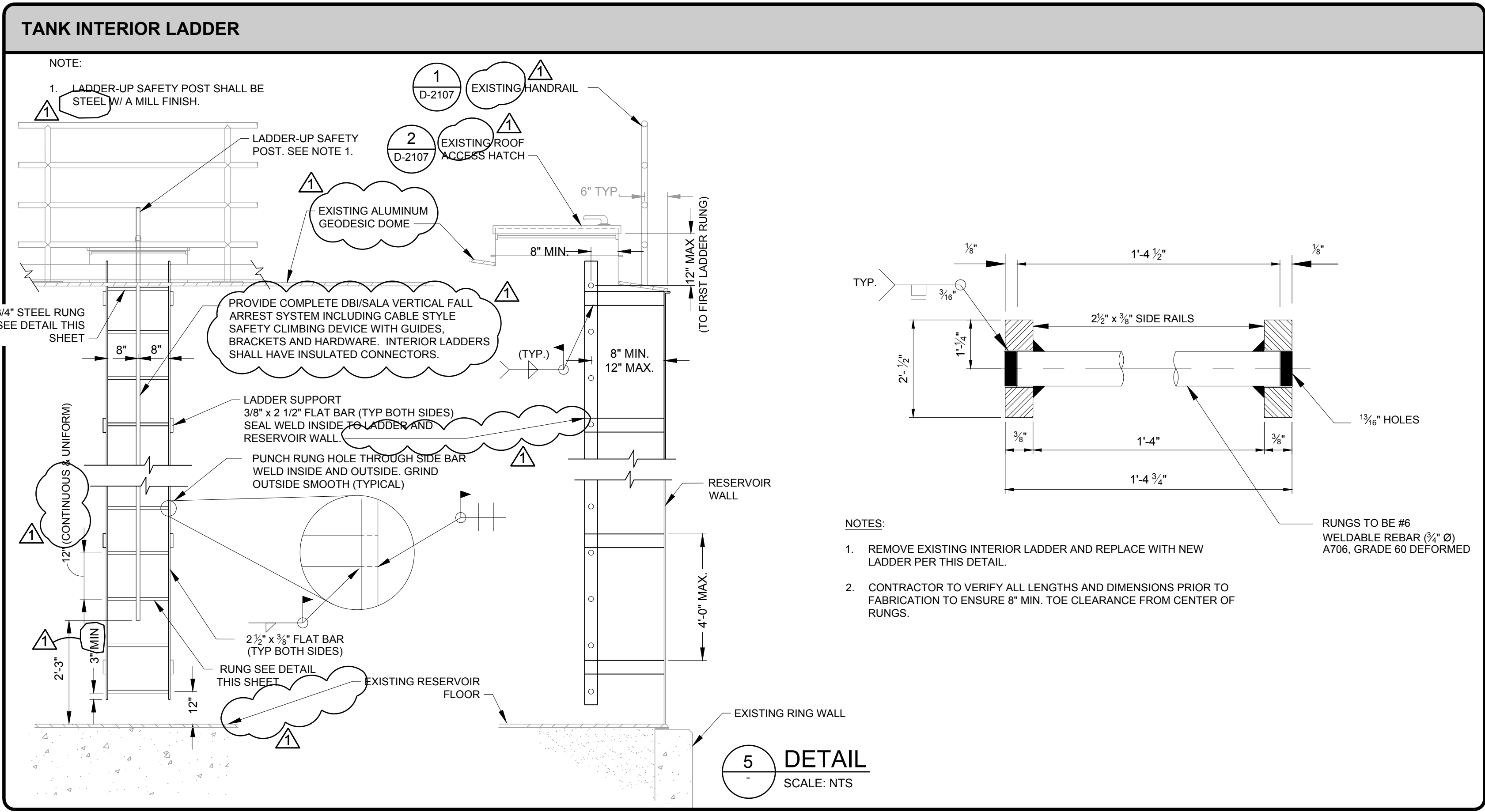
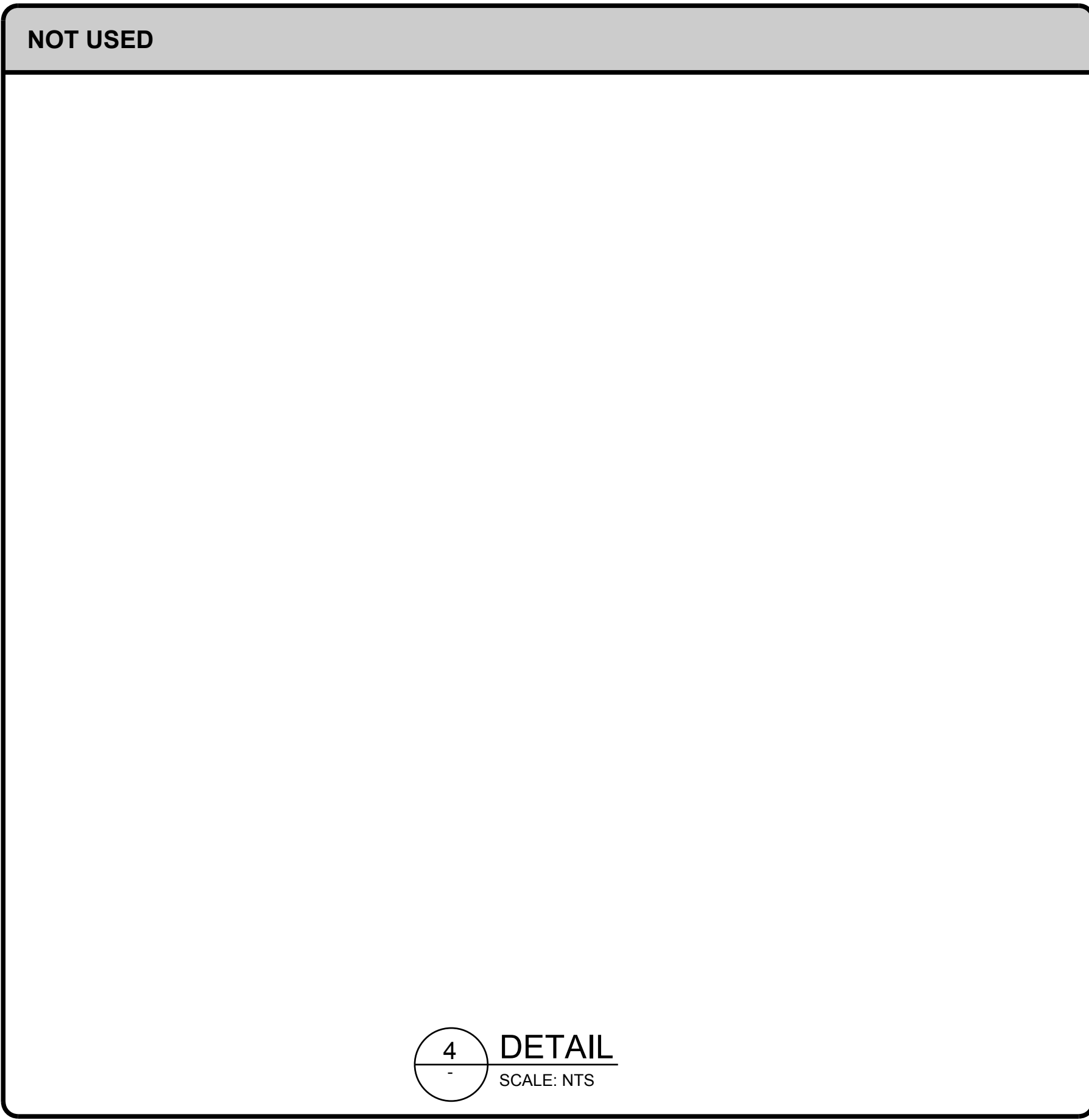
- NOTES:
1. CONTRACTOR TO VERIFY ALL LENGTHS AND DIMENSIONS PRIOR TO FABRICATION.
 2. ALL WELDED COUPLINGS SHALL BE RATED FOR 3000 LBS.
 3. ALL LAPPED SEAL WELDS SHALL BE MAG SEAL WELDS AND SHALL BE X-RAY TESTED.
 4. PROVIDE INSULATION ON PIPING OUTSIDE TANK WALL.
 5. TRANSITION FROM PVC TO STAINLESS STEEL.
 6. PROVIDE ISOLATION BETWEEN DISSIMILAR METALS.



- NOTES:
1. INSTALL NEW TAP INTO TANK WALL AT SAME ELEVATION AS TAP FOR EXISTING PRESSURE TRANSMITTER ASSEMBLY. MEASURE HEIGHT OF EXISTING TAP BEFORE REMOVING IT FROM SERVICE.
 2. PROVIDE DIELECTRIC UNION TO TAP 1/2" COPPER TUBING TYPE K, INTO TANK WALL. ROUTE 1/2" COPPER TUBING INSIDE ELECTRICAL CONDUIT TO NEW EQUIPMENT RACK. REFERENCE ELECTRICAL DRAWINGS FOR LOCATION OF EQUIPMENT RACK.
 3. SEE ELECTRICAL DRAWINGS FOR LOCATION OF NEW PRESSURE TRANSMITTER ASSEMBLY.



- NOTES:
1. PLUG EXISTING OUTLET PIPE W/ PETERSEN MULTI-FLEX HIGH PRESSURE LINE STOP PLUG PART #129-048 TO SEAL AGAINST POSSIBLE NON-SEALING VALVE.



- NOTES:
1. REMOVE EXISTING INTERIOR LADDER AND REPLACE WITH NEW LADDER PER THIS DETAIL.
 2. CONTRACTOR TO VERIFY ALL LENGTHS AND DIMENSIONS PRIOR TO FABRICATION TO ENSURE 8" MIN. TOE CLEARANCE FROM CENTER OF RUNGS.
- RUNGS TO BE #6 WELDABLE REBAR (1/4" Ø) A706, GRADE 60 DEFORMED



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ADDENDUM

SAN ANTONIO WATER SYSTEM

BY: [] DA: []
NG: []

MARK: [] DESCRIPTION: []
DATE: [] PER ADDENDUM NO. 1
DATE: [] PER ADDENDUM NO. 2

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION
**MALTSBERGER TANK
DETAILS II**

PROJ: 200-09308-18001

DESN: BM

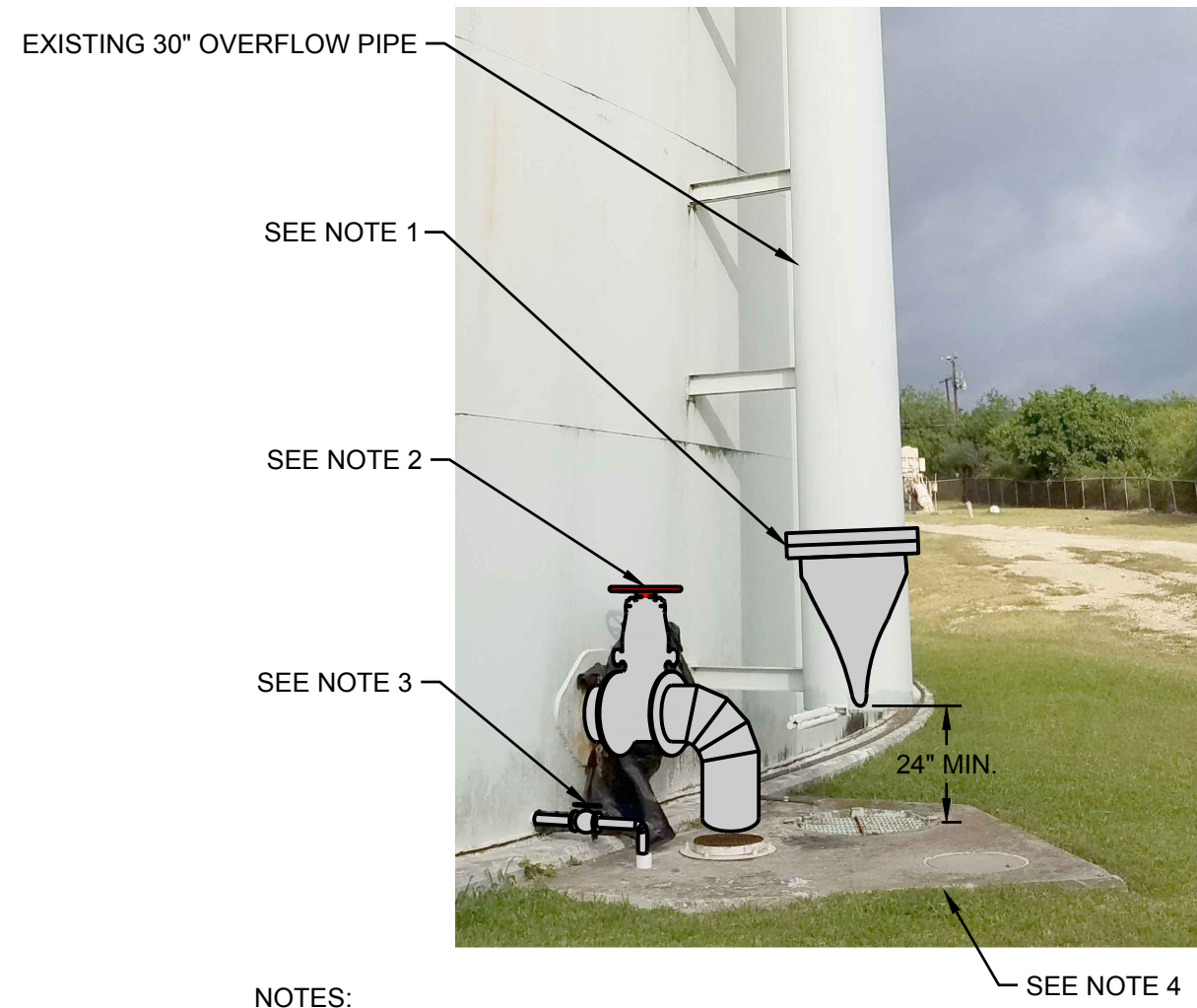
DRWN: DA

CHKD: DB

D-2105

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EXISTING OVERFLOW AND DRAIN PIPES

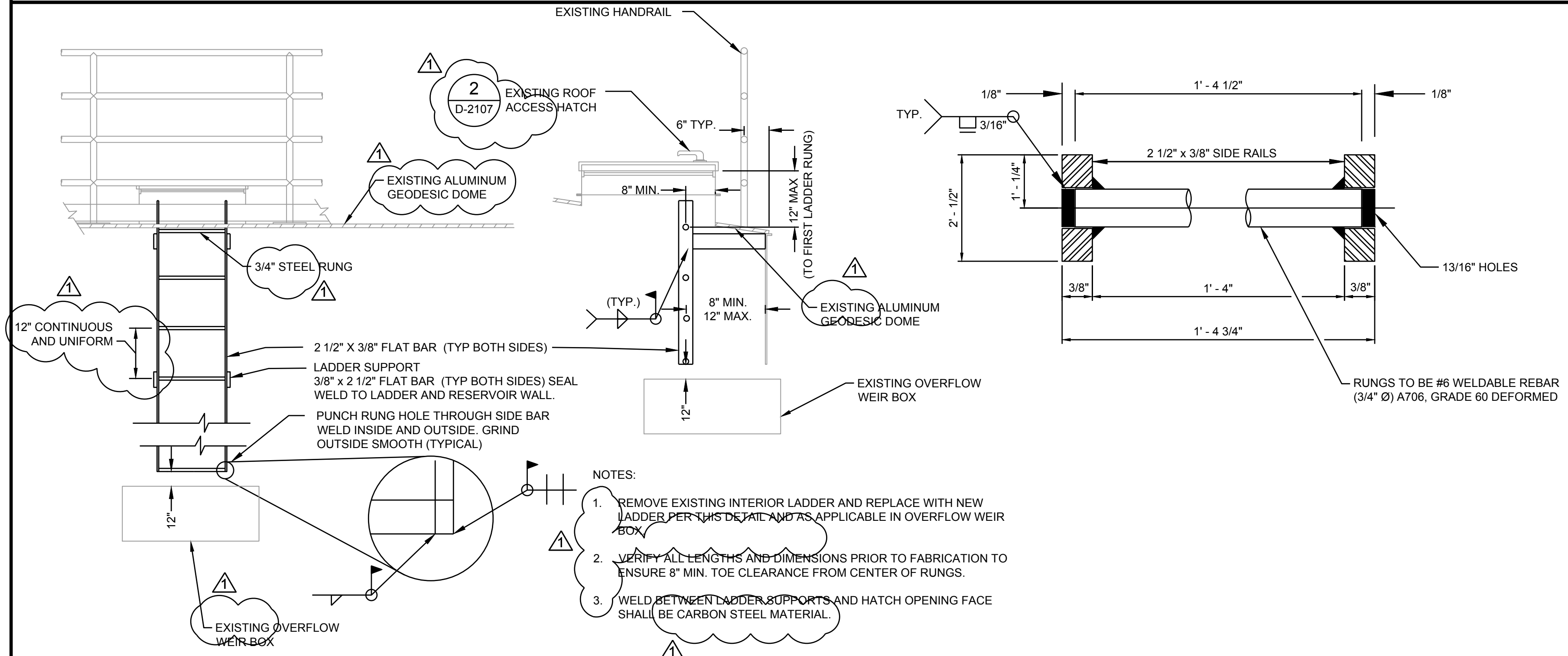


NOTES:

1. INSTALL NEW 30" TIDFLEX SERIES 35 CHECK VALVE OR EQUAL ON EXISTING 30" OVERFLOW PIPE. FLANGE (AWWA CLASS B) SHALL BE WELDED ONTO PIPE TO CONNECT FLANGED CHECK VALVE.
2. INSTALL NEW 12" GATE VALVE AND 12" 90 DEG BEND (ROTATED DOWN) ON EXISTING 12" DRAIN LINE. PROVIDE CHAIN AND LOCK FOR VALVE WHEELS. HAND WHEEL SHALL BE PAINTED RED. PROVIDE ALL NEW FLANGE HARDWARE.
3. INSTALL NEW 2" BALL VALVE AND 2" 90 DEG BEND ON EXISTING 2" DRAIN LINE. PROVIDE VALVE LOCK OUT FOR OPERATOR.
4. REFERENCE DETAIL 1 ON SHEET S-2104 FOR MODIFICATIONS TO DRAINAGE STRUCTURE.

1 DETAIL
SCALE: NTS

TANK INTERIOR LADDER (AT OVERFLOW WEIR BOX)

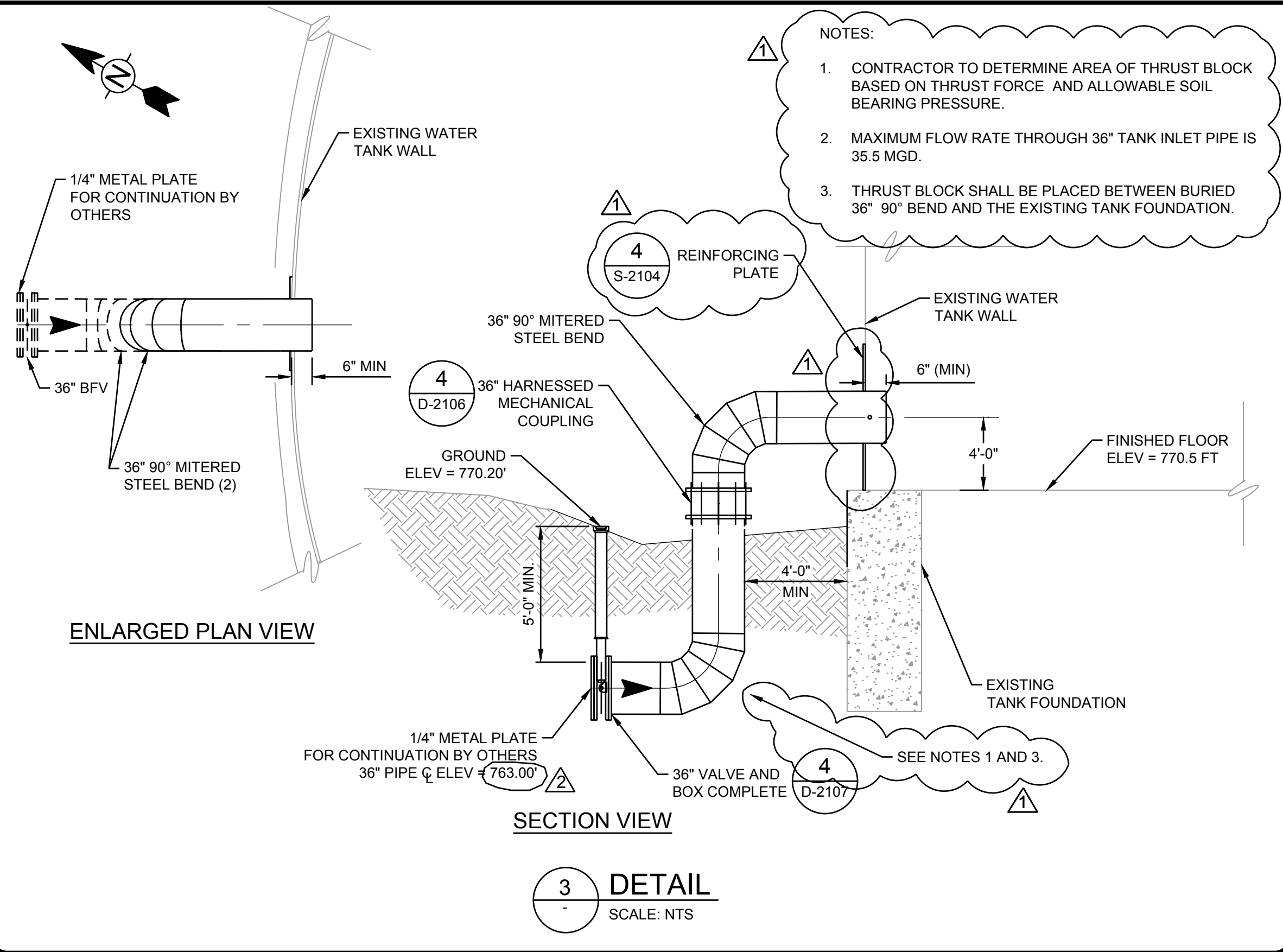


NOTES:

1. REMOVE EXISTING INTERIOR LADDER AND REPLACE WITH NEW LADDER PER THIS DETAIL AND AS APPLICABLE IN OVERFLOW WEIR BOX.
2. VERIFY ALL LENGTHS AND DIMENSIONS PRIOR TO FABRICATION TO ENSURE 8" MIN. TOE CLEARANCE FROM CENTER OF RUNGS.
3. WELD BETWEEN LADDER SUPPORTS AND HATCH OPENING FACE SHALL BE CARBON STEEL MATERIAL.

2 DETAIL
SCALE: NTS

36" TANK INLET (SIDEWALL)



NOTES:

1. CONTRACTOR TO DETERMINE AREA OF THRUST BLOCK BASED ON THRUST FORCE AND ALLOWABLE SOIL BEARING PRESSURE.
2. MAXIMUM FLOW RATE THROUGH 36" TANK INLET PIPE IS 35.5 MGD.
3. THRUST BLOCK SHALL BE PLACED BETWEEN BURIED 36" 90° BEND AND THE EXISTING TANK FOUNDATION.

3 DETAIL
SCALE: NTS



ADDENDUM



MARK	DATE	DESCRIPTION	BY	DA	NG
1	07/16/18	PER ADDENDUM NO. 1			
2	07/19/18	PER ADDENDUM NO. 2			

SAN ANTONIO WATER SYSTEM
CENTRAL WATER INTEGRATION PIPELINE
MALTSBERGER TANK REHABILITATION
MALTSBERGER TANK
DETAILS V

PROJ: 200-09308-18001
DESN: BM
DRWN: DA
CHKD: DB

D-2108

