

Olsson
Consulting Engineers
201 East 2nd Street, P.O. Box 1072
Grand Island, Nebraska 68802
June 15, 2022

ADDENDUM NO. 2

Lift Station No. 28 Equalization Tank - 2022
City Project 2022-S-3
Grand Island, Nebraska
OA Project # 021-05281

TO ALL WHO HAVE RECEIVED PLANS AND SPECIFICATIONS FOR THE REFERENCED PROJECT.

This addendum supersedes all conflicting portions of the drawings and specifications. Contractor shall include all omissions, additions, and adjustments of all trades as may be necessary because of each change, substitution, or omission. Such omission, addition, or adjustment shall conform to recognized and accepted engineering practice.

1. Refer to the Specifications; Cover, Bidder Checklist, and Advertisement for Bidders

The bid opening has been rescheduled to June 30, 2022 at 2:45 pm. The location of the bid opening has not changed.

2. Refer to the Specifications, Advertisement for Bidders

Delete the existing third paragraph and replace with the following:

Please return one (1) original and one (1) copy of each bid sheet.

3. Refer to the Specifications, Division 1A – Special Provisions

For clarification: Paragraphs 200.6 and 200.33 refer to the subgrade density testing and pavement concrete testing respectively. All other special inspections and testing required by the various specification sections shall be the Contractor's responsibility and shall be subsidiary to the items being tested.

4. Refer to the Specifications, Section 13200

Delete the existing Section 13200, 1.04.E.1 and replace with the following:

1. Storage Capacity: 400,000 Gallon or 600,000 Gallon in accordance with the selected Bid Alternate

5. Refer to the Specifications, Section 13200

Delete the existing Section 13200, 1.04.E.2.a and replace with the following:

- a. Inside Diameter: 60.0 ft

6. Refer to the Specifications, Section 13200

Delete the existing Section 13200, 1.04.E.5 and replace with the following:

5. Backfill Height: 0.0 ft

7. Refer to the Specifications, Section 13200

Delete the existing Section 13200, 1.04.G.4 and replace with the following:

The minimum ratio of mild reinforcement shall be in accordance with ACI 372R and D110-13. The minimum cover over the reinforcing steel shall be 1-1/4 inch. Maximum spacing of steel reinforcement shall be two times the floor thickness.

8. Refer to the Specifications, Section 13200

Insert the following after Section 13200, 1.04.E.11:

12. Roof Live Load: 20 psf

9. Refer to the Specifications, Section 15130

Insert the following after Section 15130, 2.2.C:

D. Pinch valves and actuators shall be designed for an anticipated flow of 2,050 gpm under normal operations.

10. Refer to the Plans, Sheet C4.0

Delete the existing Sheet C4.0 and insert the attached Sheet C4.0

11. Refer to the Plans, Sheet C6.0

Delete the existing Sheet C6.0 and insert the attached Sheet C6.0

12. Refer to the Plans, Sheet C8.0

Delete the existing Sheet C8.0 and insert the attached Sheet C8.0

13. Refer to the Plans, Sheet C8.1

Delete the existing Sheet C8.1 and insert the attached Sheet C8.1.

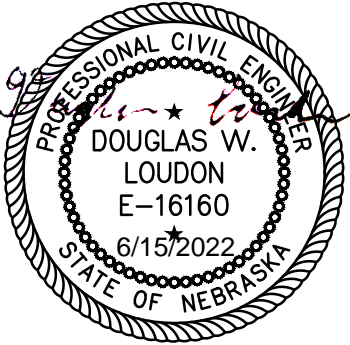
14. Refer to the Plans, Sheet C8.3

Delete the existing Sheet C8.3 and insert the attached Sheet C8.3.

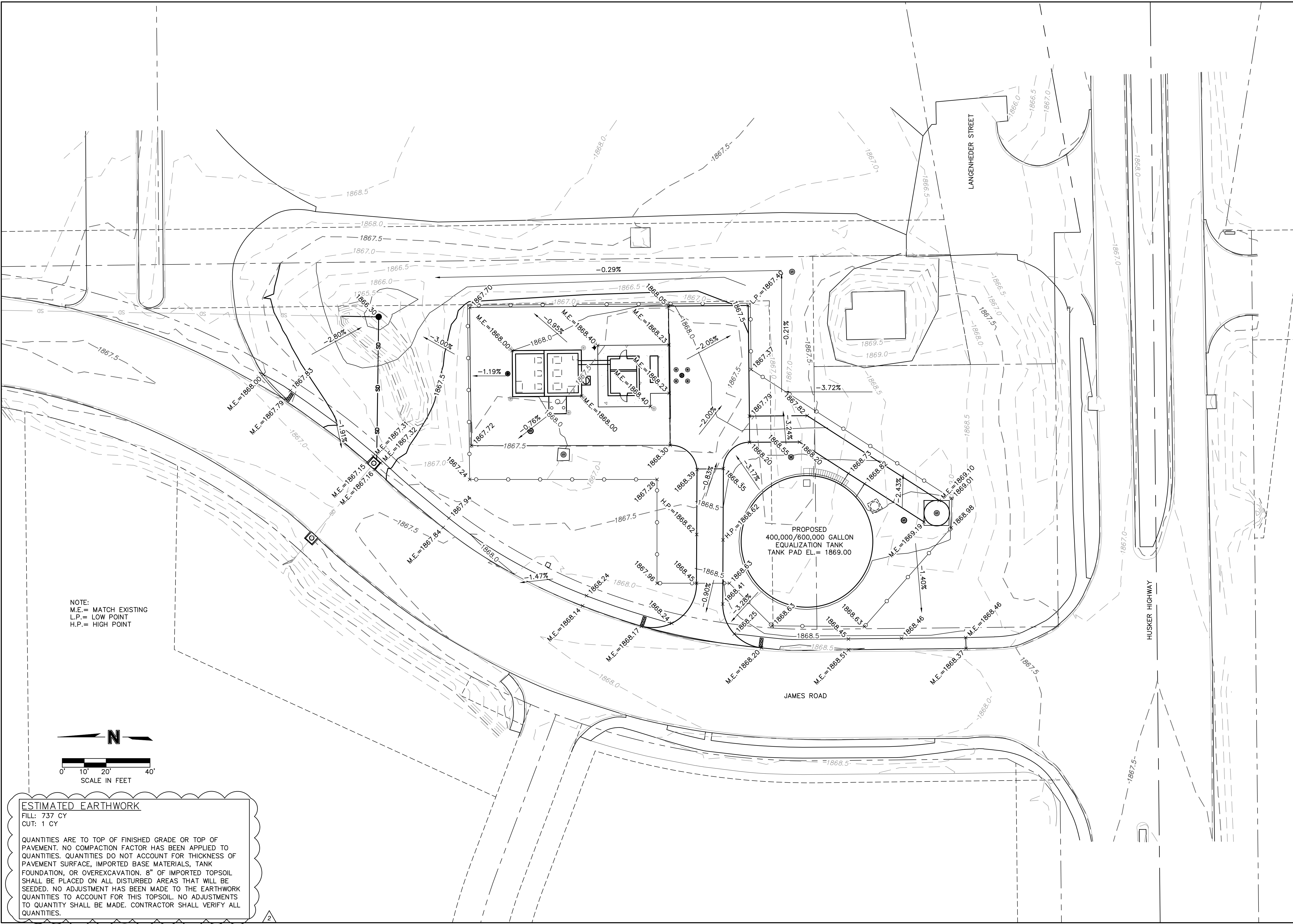
15. Refer to the Plans, Sheet C9.2

Delete the existing Sheet C9.2 and insert the attached Sheet C9.2.

Each Bidder must acknowledge receipt of all Addenda in the space provided on the Proposal Form.



DWG: F:\2021\05001-05500\021-05281\40-Design\AutoCAD\Final_Plans\Sheets\GNCV\C_GRD01_02105281.dwg USER: dfloudon
 DATE: Jun 14, 2022 2:54pm XREFS: C_PBASE_02105281_SITE C_EXC_02105281_SITE V_XTOPO_LDP_02105281 C_PTBLK_02105281



NOTE:
 M.E. = MATCH EXISTING
 L.P. = LOW POINT
 H.P. = HIGH POINT

ESTIMATED EARTHWORK
 FILL: 737 CY
 CUT: 1 CY

QUANTITIES ARE TO TOP OF FINISHED GRADE OR TOP OF PAVEMENT. NO COMPACTION FACTOR HAS BEEN APPLIED TO QUANTITIES. QUANTITIES DO NOT ACCOUNT FOR THICKNESS OF PAVEMENT SURFACE, IMPORTED BASE MATERIALS, TANK FOUNDATION, OR OVEREXCAVATION. 8" OF IMPORTED TOPSOIL SHALL BE PLACED ON ALL DISTURBED AREAS THAT WILL BE SEEDED. NO ADJUSTMENT HAS BEEN MADE TO THE EARTHWORK QUANTITIES TO ACCOUNT FOR THIS TOPSOIL. NO ADJUSTMENTS TO QUANTITY SHALL BE MADE. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

olsson

6415 Second Avenue,
 Suite 1
 Kearney, NE 68847
 TEL 308.708.7650 www.olsson.com

REV. NO.	DATE	REVISIONS DESCRIPTION
2	6/15/2022	ADDENDUM 2

GRADING PLAN

LIFT STATION 28 EQUALIZATION TANK
 CITY PROJECT #2022-S-3

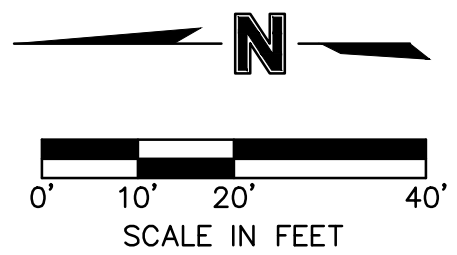
2022

REVISIONS

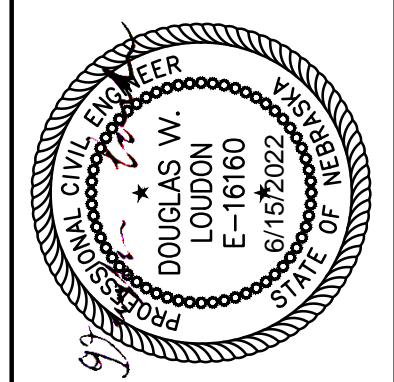
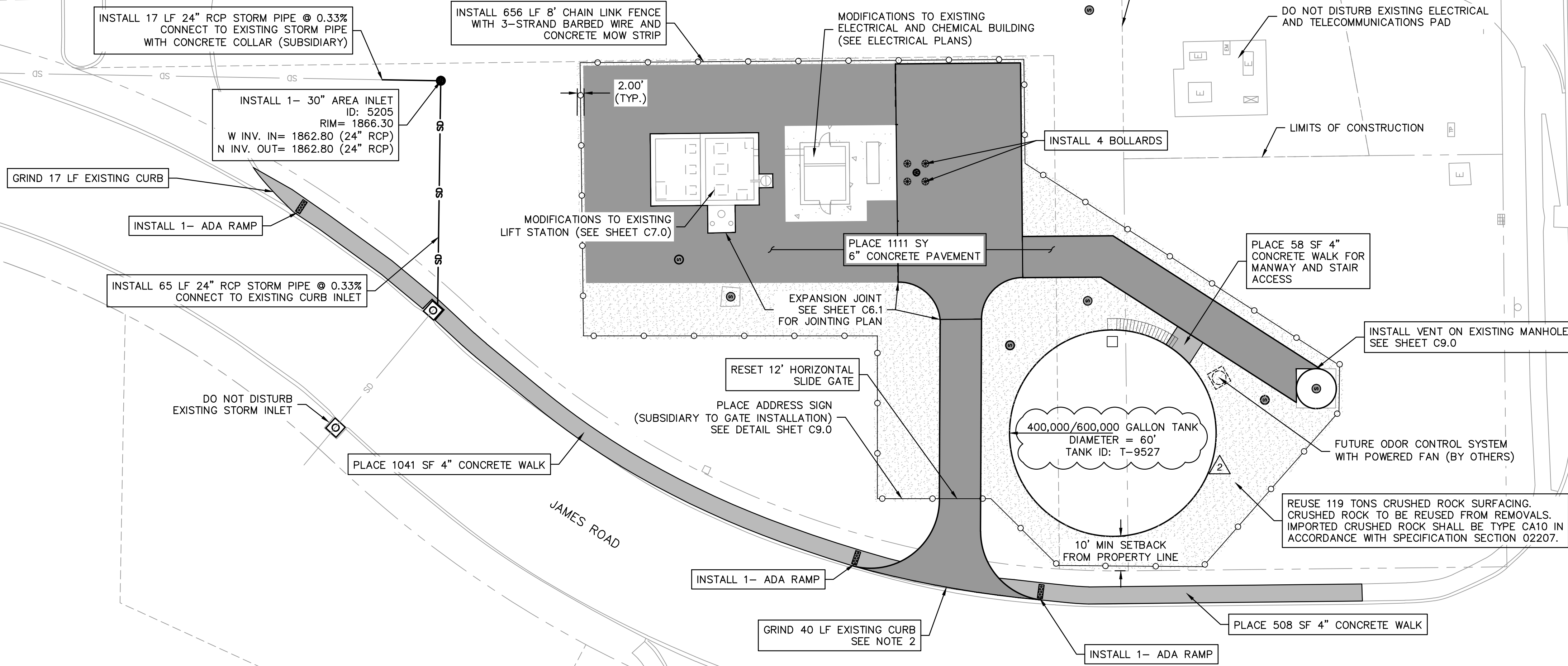
drawn by: _____ ORV
 checked by: _____ DWL
 approved by: _____ JRB
 QA/QC by: _____ MDM
 project no.: 021-05281
 drawing no.: C4.0
 date: 6/14/22

SHEET
 C4.0

DWG: F:\2021\05001-05500\021-05281\40-Design\AutoCAD\Final Plans\Sheets\GNCV\C_SIT01_02105281-SITE.dwg
 DATE: Jun 14, 2022 2:54pm
 USER: dcloudon
 XREFS: C_P\TBLK_02105281 V_XTOPO_LDP_02105281 C_PBASE_02105281_SITE2 C_EXC_02105281_SITE



- NOTES:
1. ANY EXISTING ROCK THAT IS NOT REUSED AS ROCK SURFACING SHALL BE INCORPORATED INTO PAVEMENT SUBGRADE.
 2. CONTRACTOR TO PAY PUBLIC WORKS FOR CURB GRINDING. COORDINATE WITH PUBLIC WORKS ON DRIVE OPENING PERMIT.



REV. NO.	DATE	REVISIONS DESCRIPTION
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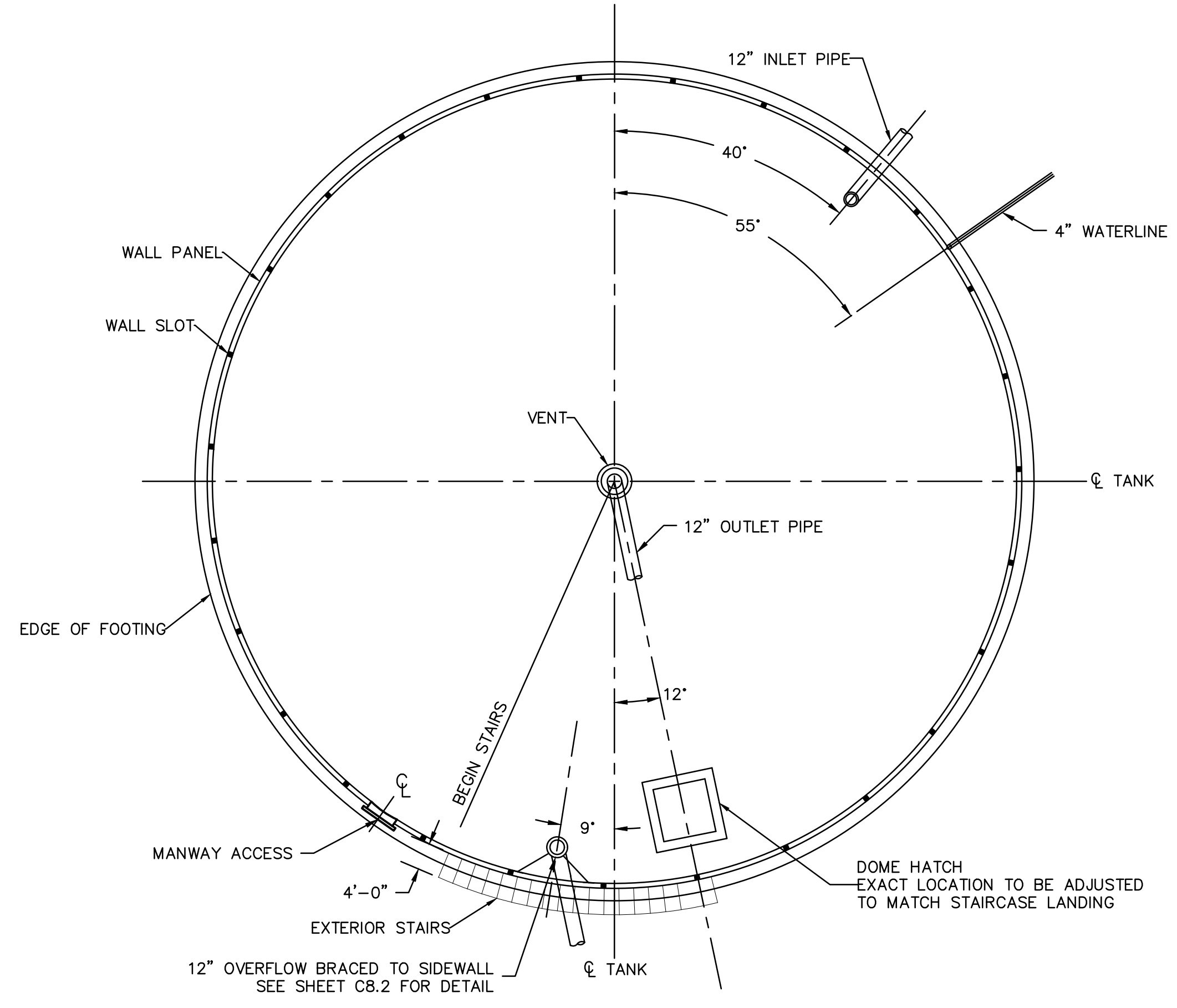
CONSTRUCTION PLAN	2022
LIFT STATION 28 EQUALIZATION TANK CITY PROJECT #2022-S-3	
GRAND ISLAND, NE	
drawn by: ORV	
checked by: DWL	
approved by: JRB	
QA/QC by: MDM	
project no.: 021-05281	
drawing no.: C6.0	
date: 6/14/22	

USER: dcloudon

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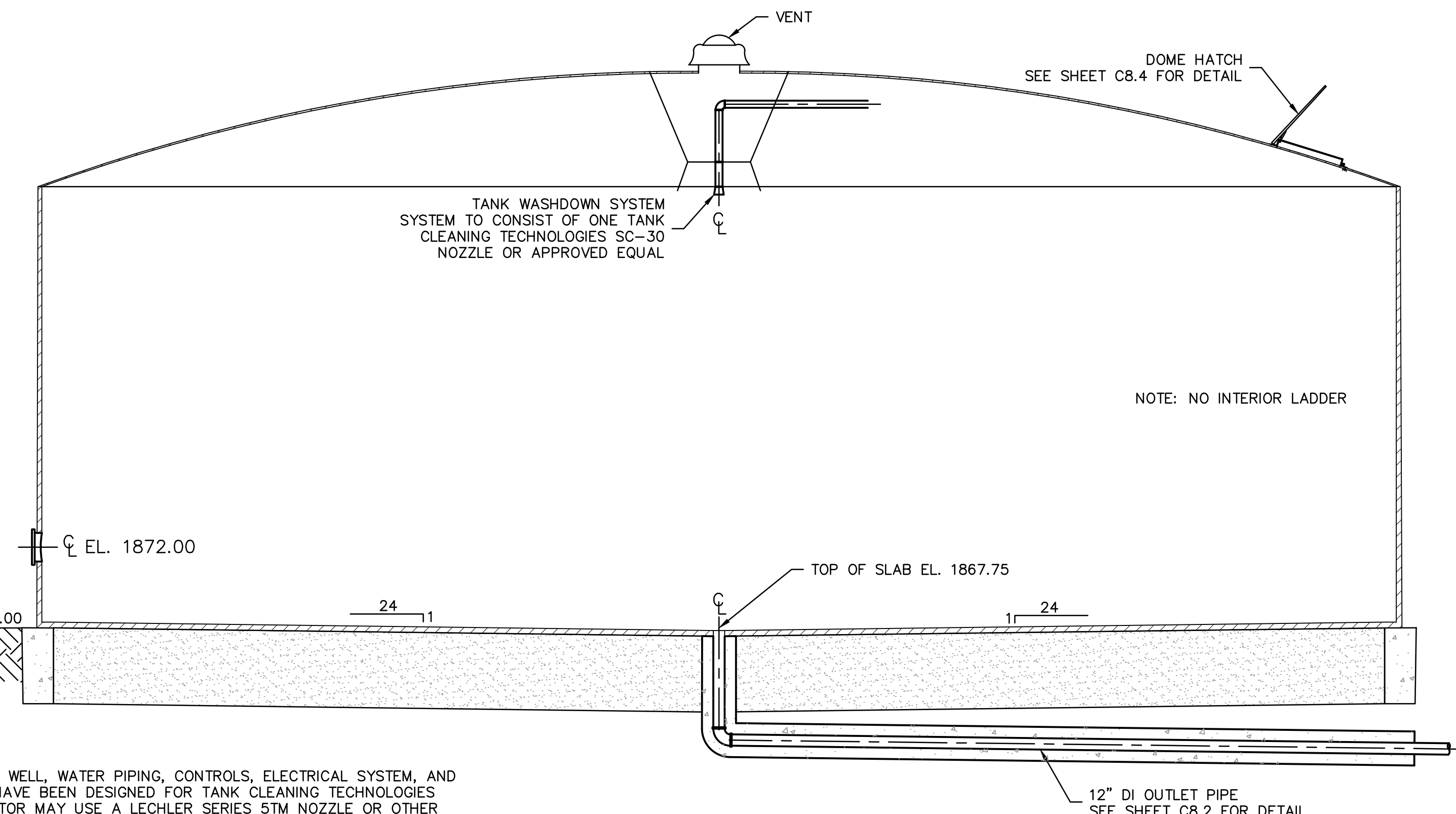
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DATE: Jun 14, 2022 2:54pm



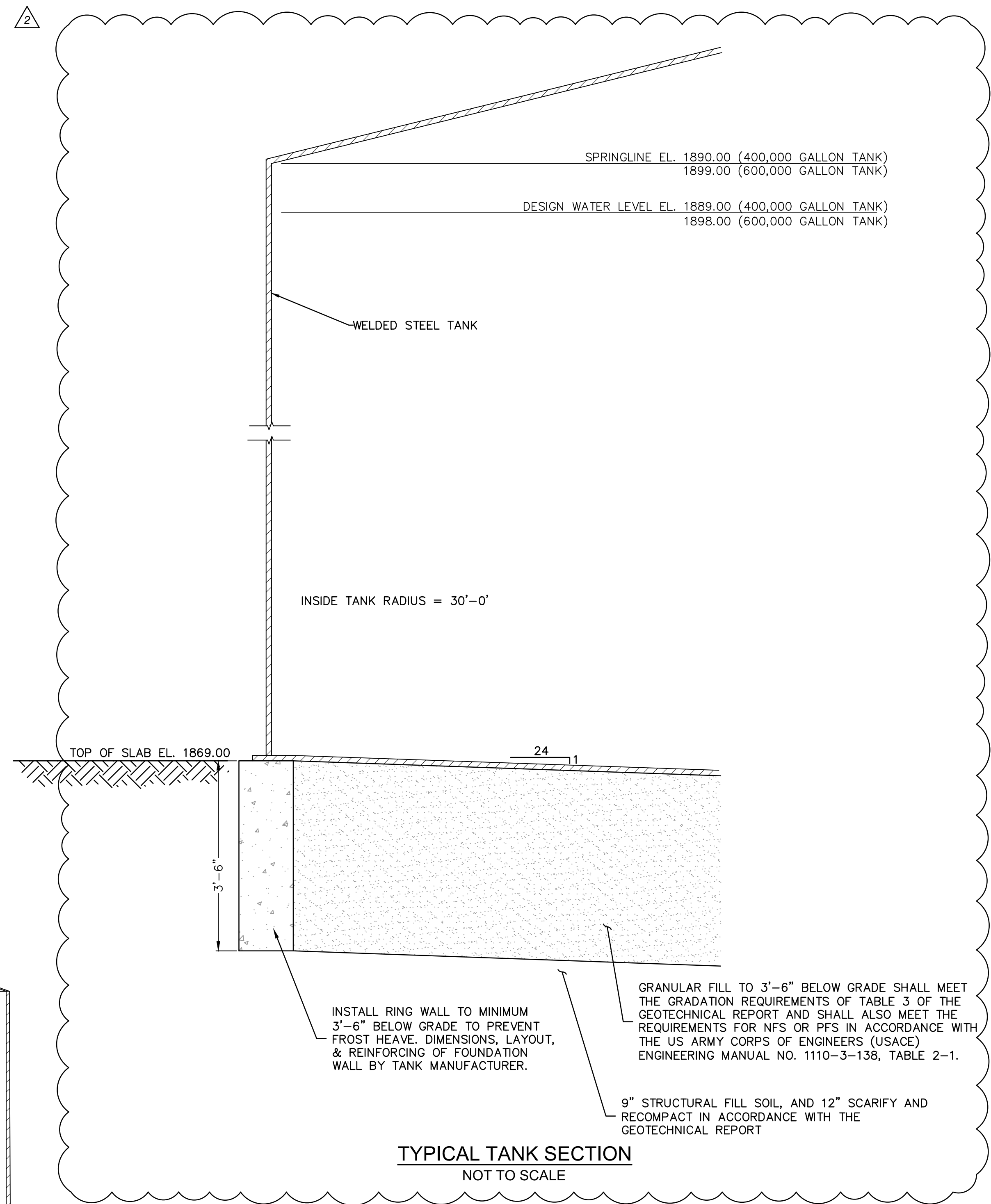
TANK PLAN
NOT TO SCALE

NOTE: A PAINTED WELDED STEEL STAIRCASE IS TO BE INCLUDED ON THE EXTERIOR OF THE TANK. THE 4'-0" LANDING AT THE TOP OF THE STAIRCASE IS TO LINE UP WITH THE DOME HATCH ON THE ROOF. APPROPRIATE RAILING IS TO BE INCLUDED AROUND THE ACCESS HATCH FOR FALL PROTECTION. STAIRCASE IS TO BE DESIGNED BY THE TANK MANUFACTURER.



TANK ELEVATION & SECTION
NOT TO SCALE

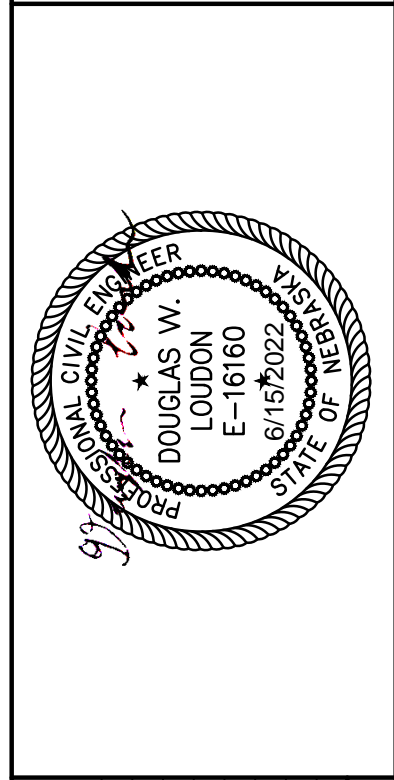
NOTE: THE NON-POTABLE WELL, WATER PIPING, CONTROLS, ELECTRICAL SYSTEM, AND OTHER APPURTENANCES HAVE BEEN DESIGNED FOR TANK CLEANING TECHNOLOGIES SC-30 NOZZLE. CONTRACTOR MAY USE A LECHLER SERIES 5TM NOZZLE OR OTHER PRE-APPROVED EQUAL. CONTRACTOR SHALL CONFIRM THE COMPATIBILITY OF ANY ALTERNATE NOZZLE WITH THE OTHER SYSTEM COMPONENTS AND SHALL REDESIGN ALL COMPONENTS THAT ARE NOT COMPATIBLE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUBSTITUTIONS AND REDESIGN.



TYPICAL TANK SECTION
NOT TO SCALE

- NOTES:
- TANK DESIGN IN ACCORDANCE WITH ANSI/AWWA D110, TYPE III.
 - CONCRETE AND SHOTCRETE SHALL CONFORM TO MINIMUM 28-DAY STRENGTHS:
SHOTCRETE: 4500 PSI
FOOTING AND FLOOR CONCRETE: 3500 PSI
WALL AND DOME CONCRETE: 4000 PSI
 - ALLOWABLE SOIL BEARING PRESSURE = 1,800 PSF
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 - DETAILS SHOWN ARE SCHEMATIC ONLY. TANK MANUFACTURER SHALL SUBMIT DRAWINGS OF THE TANK AND FOUNDATION. DRAWINGS SHALL BE SIGNED AND SEALED BY A NEBRASKA REGISTERED ENGINEER (SUBSIDIARY).
 - ALL WORK WITHIN THE TANK FOOTPRINT SHALL BE SUBSIDIARY TO "INSTALL TANK" INCLUDING FOUNDATIONS, PIPING, CONCRETE ENCASEMENT, TANK ACCESS EQUIPMENT, WASHDOWN SYSTEM, AND ALL OTHER MISCELLANEOUS ITEMS NECESSARY TO CONSTRUCT A COMPLETE OPERATIONAL TANK.

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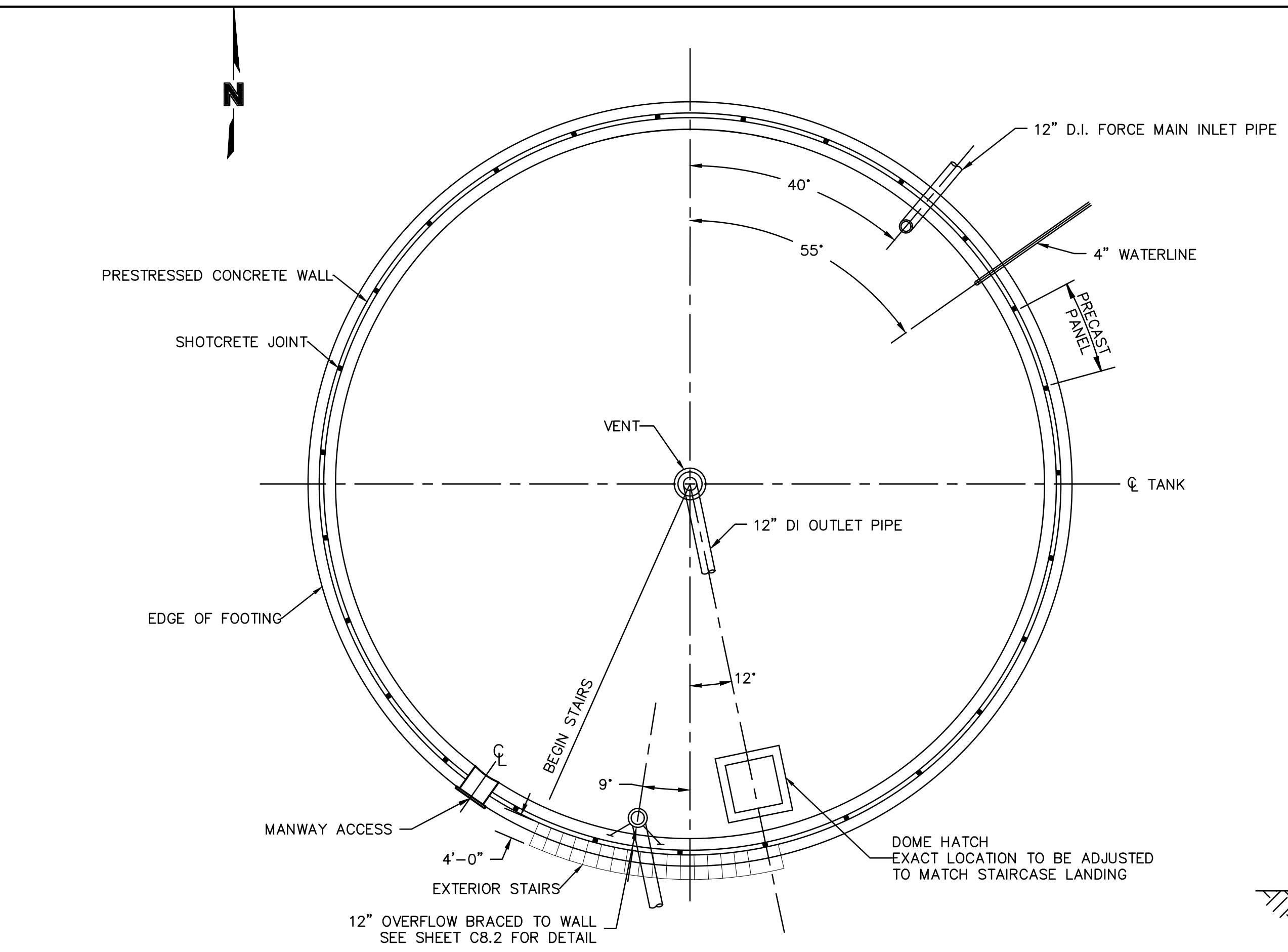
STEEL TANK DETAILS
LIFT STATION 28 EQUALIZATION TANK
CITY PROJECT #2022-S-3
GRAND ISLAND, NE
2022

SHEET
C8.0

drawn by: ORV
checked by: DWL
approved by: JRB
QA/QC by: MDM
project no.: 021-05281
drawing no.: C8.0
date: 6/14/22

USER: dclouden

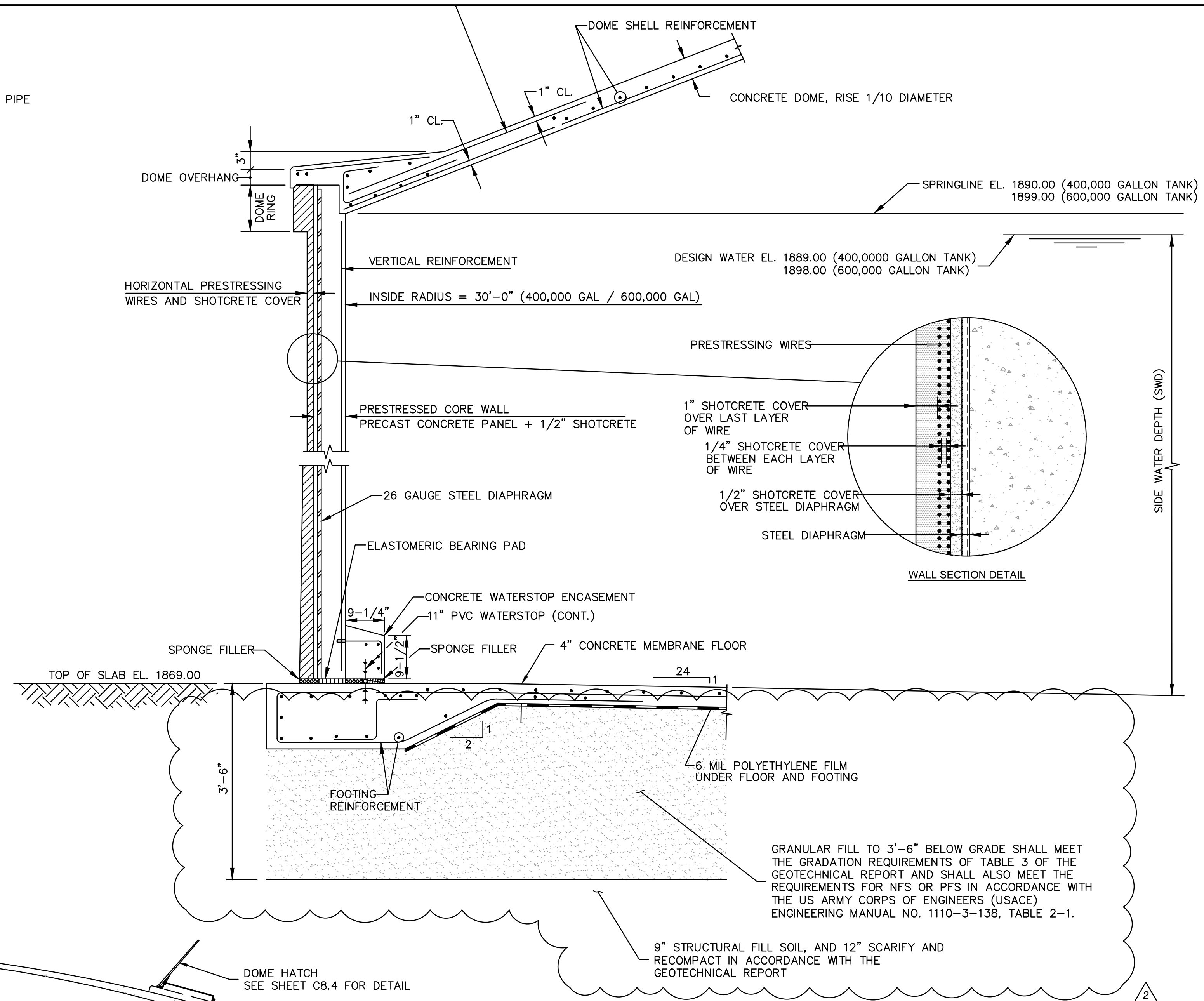
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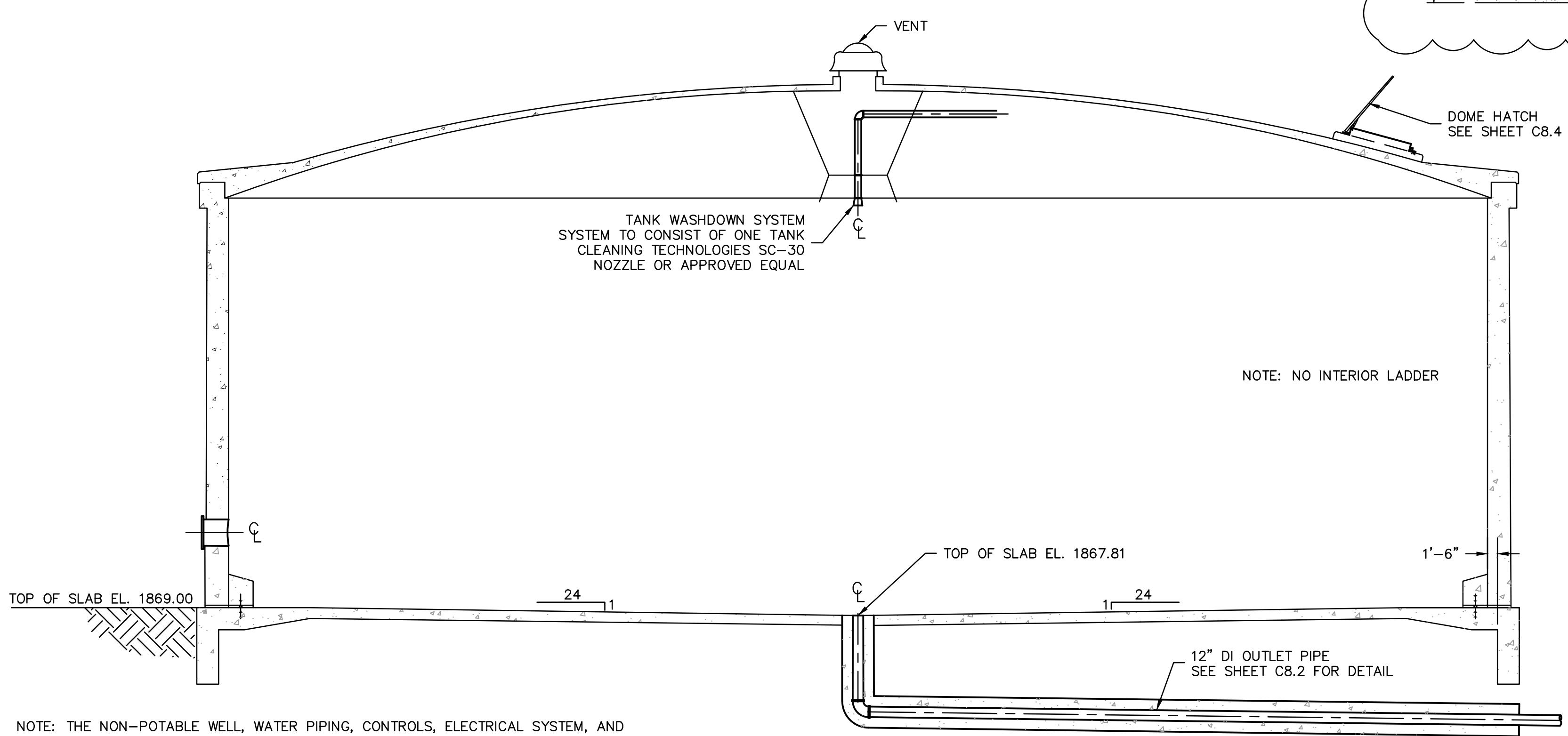
TANK PLAN
NOT TO SCALE

NOTES:

1. A PAINTED WELDED STEEL STAIRCASE IS TO BE INCLUDED ON THE EXTERIOR OF THE TANK. THE 4'-0" LANDING AT THE TOP OF THE STAIRCASE IS TO LINE UP WITH THE DOME HATCH ON THE ROOF. APPROPRIATE RAILING IS TO BE INCLUDED AROUND THE ACCESS HATCH FOR FALL PROTECTION. STAIRCASE IS TO BE DESIGNED BY THE TANK MANUFACTURER.



TYPICAL TANK SECTION
NOT TO SCALE

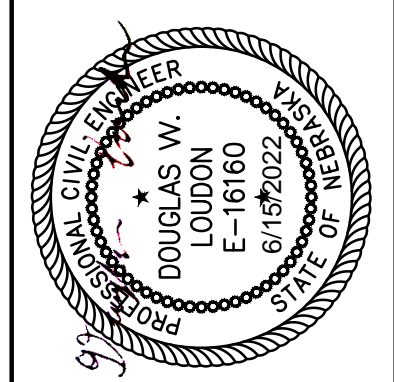


TANK ELEVATION & SECTION
NOT TO SCALE

NOTE: THE NON-POTABLE WELL, WATER PIPING, CONTROLS, ELECTRICAL SYSTEM, AND OTHER APPURTENANCES HAVE BEEN DESIGNED FOR TANK CLEANING TECHNOLOGIES SC-30 NOZZLE. CONTRACTOR MAY USE A LECHLER SERIES 5M NOZZLE OR OTHER PRE-APPROVED EQUAL. CONTRACTOR SHALL CONFIRM THE COMPATIBILITY OF ANY ALTERNATE NOZZLE WITH THE OTHER SYSTEM COMPONENTS AND SHALL REDESIGN ALL COMPONENTS THAT ARE NOT COMPATIBLE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUBSTITUTIONS AND REDESIGN.

- NOTES:
- TANK DESIGN IN ACCORDANCE WITH ANSI/AWWA D110, TYPE III.
 - CONCRETE AND SHOTCRETE SHALL CONFORM TO MINIMUM 28-DAY STRENGTHS:
SHOTCRETE: 4500 PSI
FOOTING AND FLOOR CONCRETE: 3500 PSI
WALL AND DOME CONCRETE: 4000 PSI
 - ALLOWABLE SOIL BEARING PRESSURE = 1,800 PSF
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 - DETAILS SHOWN ARE SCHEMATIC ONLY. TANK MANUFACTURER SHALL SUBMIT DRAWINGS OF THE TANK AND FOUNDATION. DRAWINGS SHALL BE SIGNED AND SEALED BY A NEBRASKA REGISTERED ENGINEER (SUBSIDIARY).
 - ALL WORK WITHIN THE TANK FOOTPRINT SHALL BE SUBSIDIARY TO "INSTALL TANK" INCLUDING FOUNDATIONS, PIPING, SUPPORTS, CONCRETE ENCASEMENT, TANK ACCESS EQUIPMENT, WASHDOWN SYSTEM, AND ALL OTHER MISCELLANEOUS ITEMS NECESSARY TO CONSTRUCT A COMPLETE OPERATIONAL TANK.

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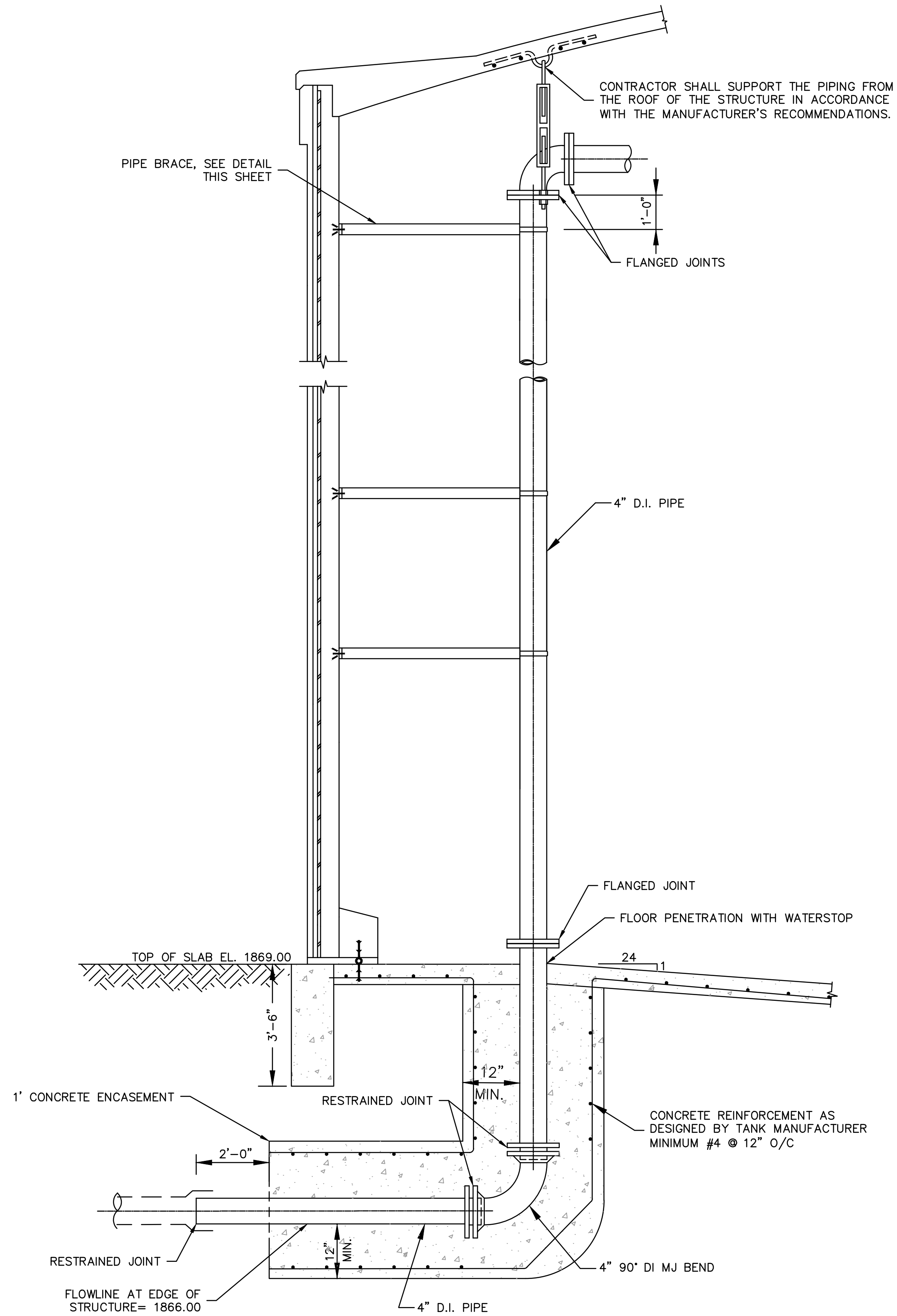


REV. NO.	DATE	REVISIONS DESCRIPTION
2	6/15/2022	ADDENDUM 2

CONCRETE TANK DETAILS
LIFT STATION 28 EQUALIZATION TANK
CITY PROJECT #2022-S-3
GRAND ISLAND, NE
2022

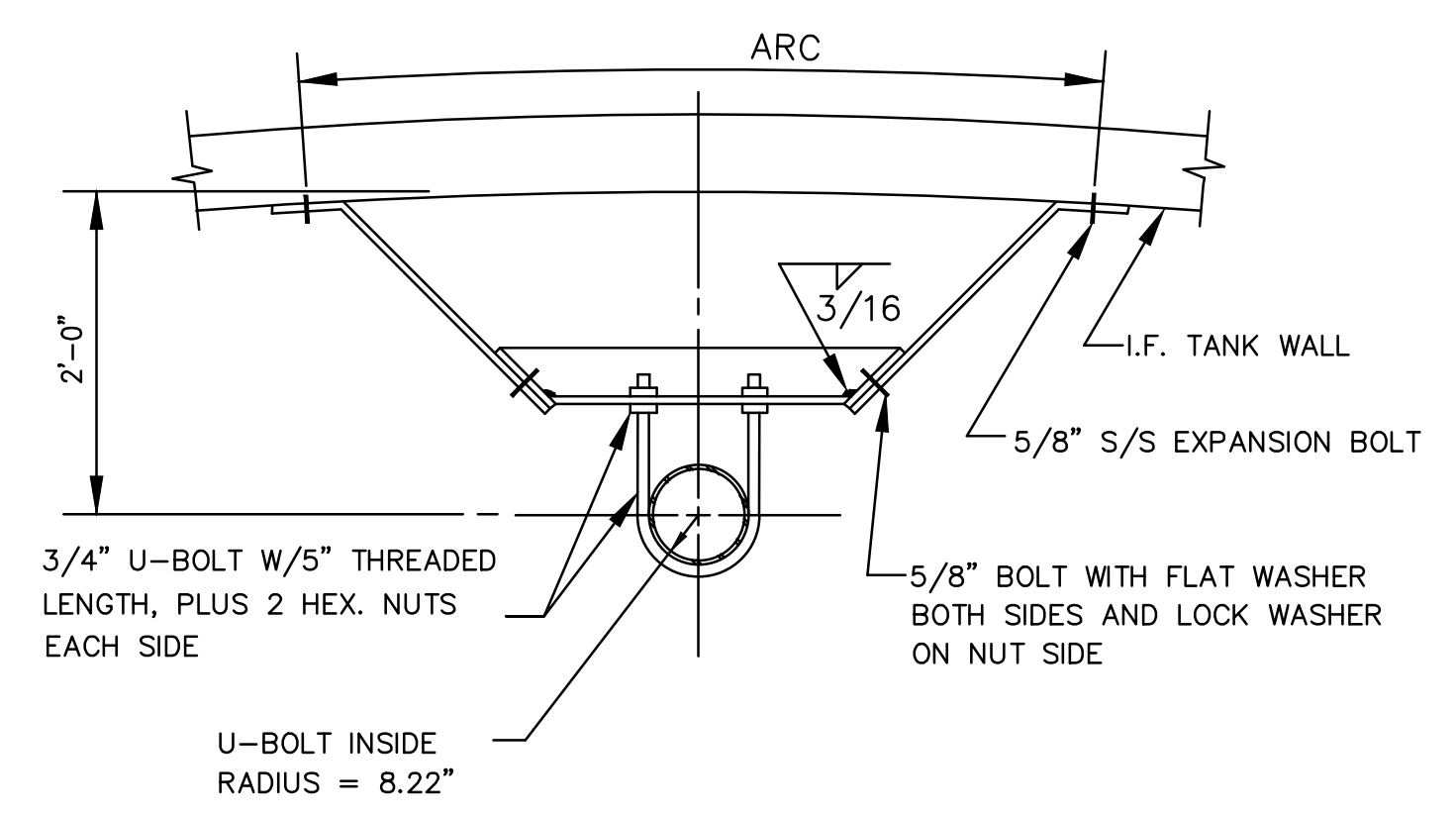
drawn by: ORV
checked by: DWL
approved by: JRB
QA/QC by: MDM
project no.: 021-05281
drawing no.: C8.1
date: 6/15/22

DWG: F:\2021\05001-05500\021-05281\40-Design\AutoCAD\Final Plans\Sheets\GNCV\C_DTL01_02105281.dwg
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 USER: dcloudon
 XREFS: C_PTBK_02105281



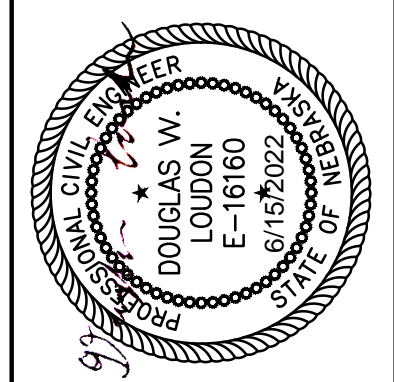
BRACED WATER PIPE DETAIL
 NOT TO SCALE

NOTE: AT CONTRACTOR'S OPTION, THE WATER PIPE MAY BE INSTALLED ON THE EXTERIOR OF THE TANK WALL. CONTRACTOR SHALL SUBMIT A DETAIL OF THE PROPOSED WATER PIPE INSTALLATION AND BRACING WITH THE TANK PLANS. DETAIL SHALL BE SIGNED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF NEBRASKA.



WATER PIPE BRACE DETAIL
 MATERIAL: STEEL ASTM (A36) GALVANIZED AFTER FABRICATION

NOTE: CONCRETE TANK SECTIONS SHOWN. DETAILS APPLY TO BOTH CONCRETE AND STEEL TANKS.

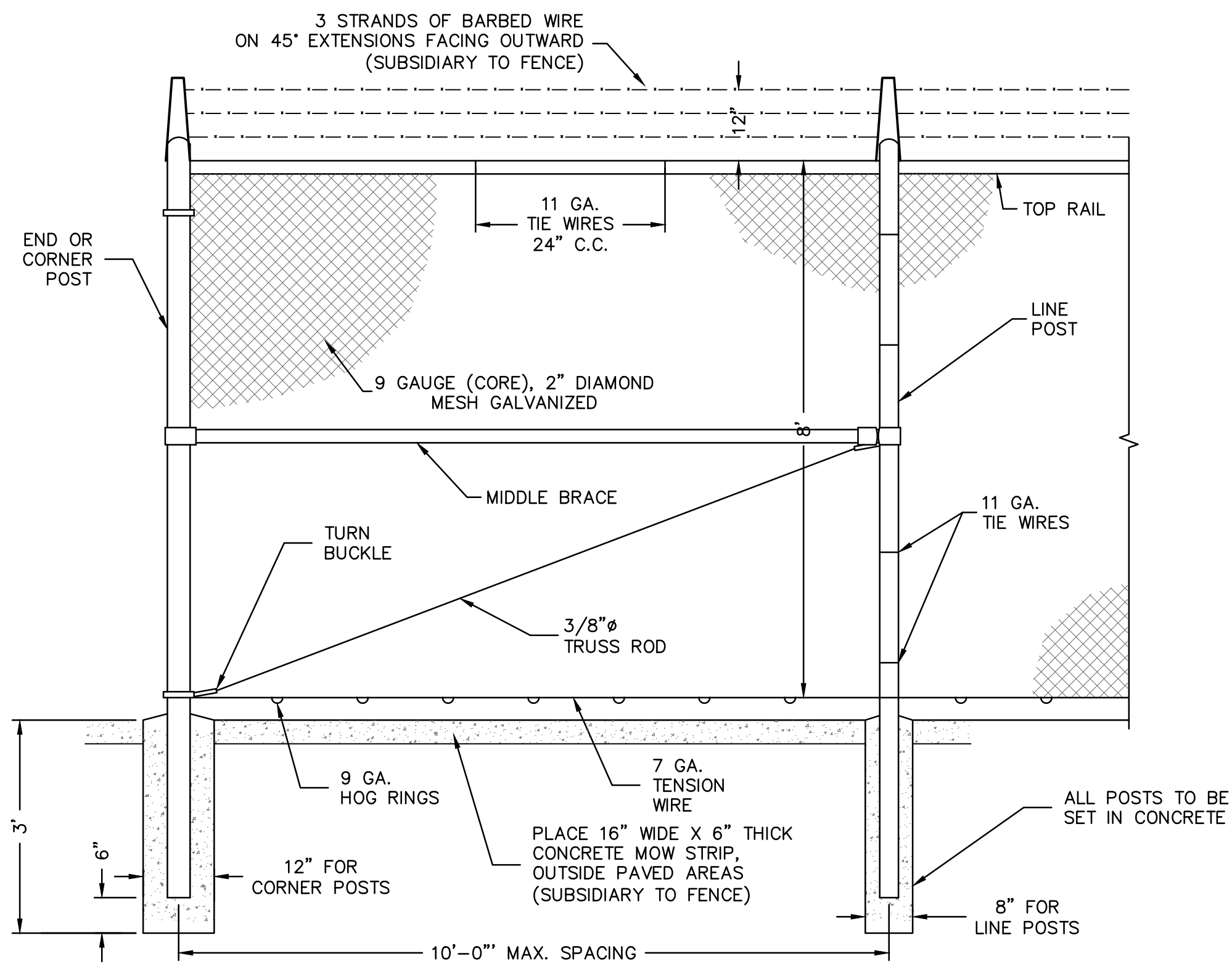


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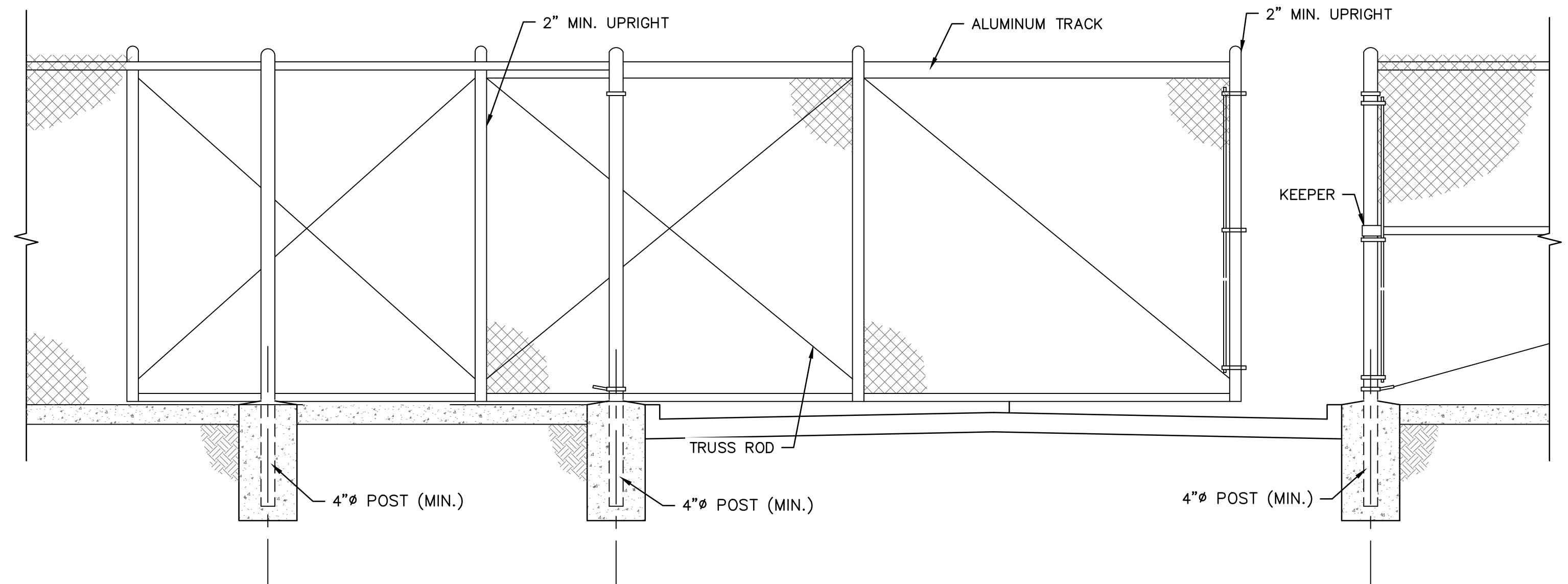
GENERAL TANK DETAILS	2022
LIFT STATION 28 EQUALIZATION TANK CITY PROJECT #2022-S-3	
GRAND ISLAND, NE	

drawn by:	ORV
checked by:	DWL
approved by:	JRB
QA/QC by:	MDM
project no.:	021-05281
drawing no.:	C8.3
date:	6/14/22

DWG: F:\2021\05001-05500\021-05281\40-Design\AutoCAD\Final Plans\Sheets\GNCV\C-DTL01_02105281.dwg
 DATE: Jun 14, 2022 2:54pm
 USER: dcloudon
 XREFS: C_PTBK_02105281

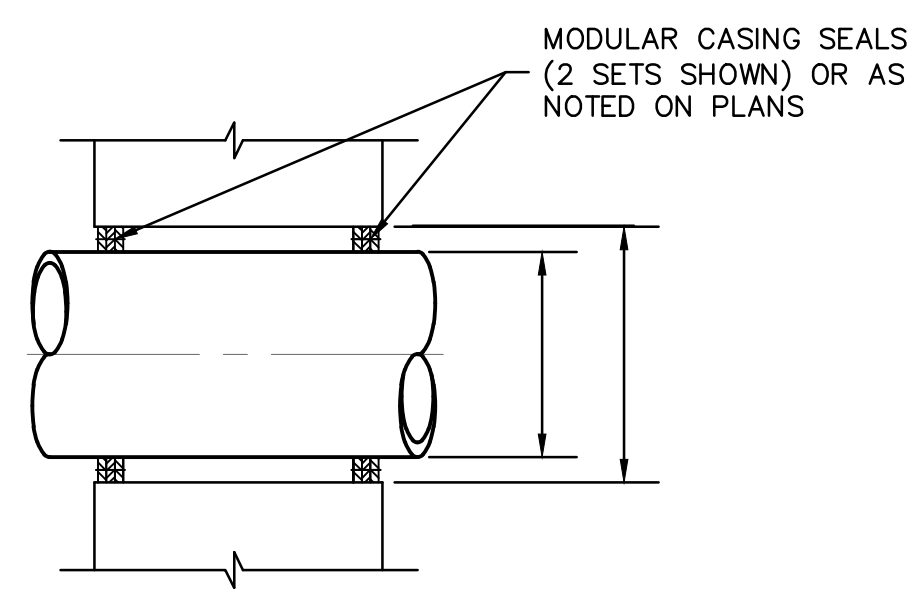


8' CHAIN LINK FENCE
NOT TO SCALE

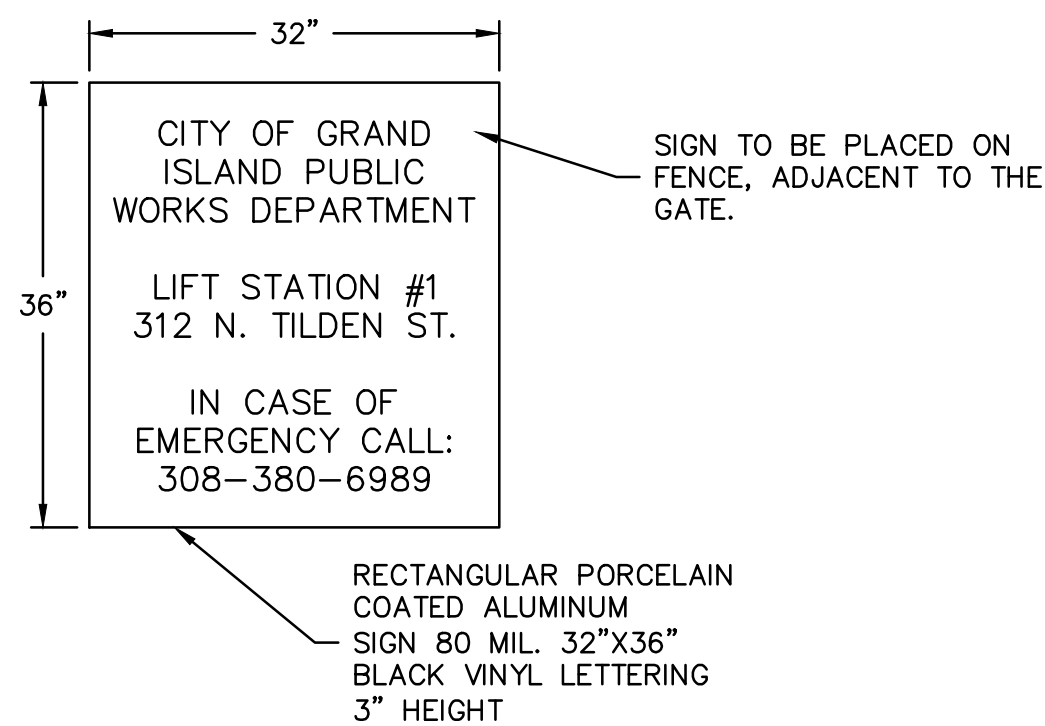


CHAIN LINK FENCE HORIZONTAL SLIDE GATE
NOT TO SCALE

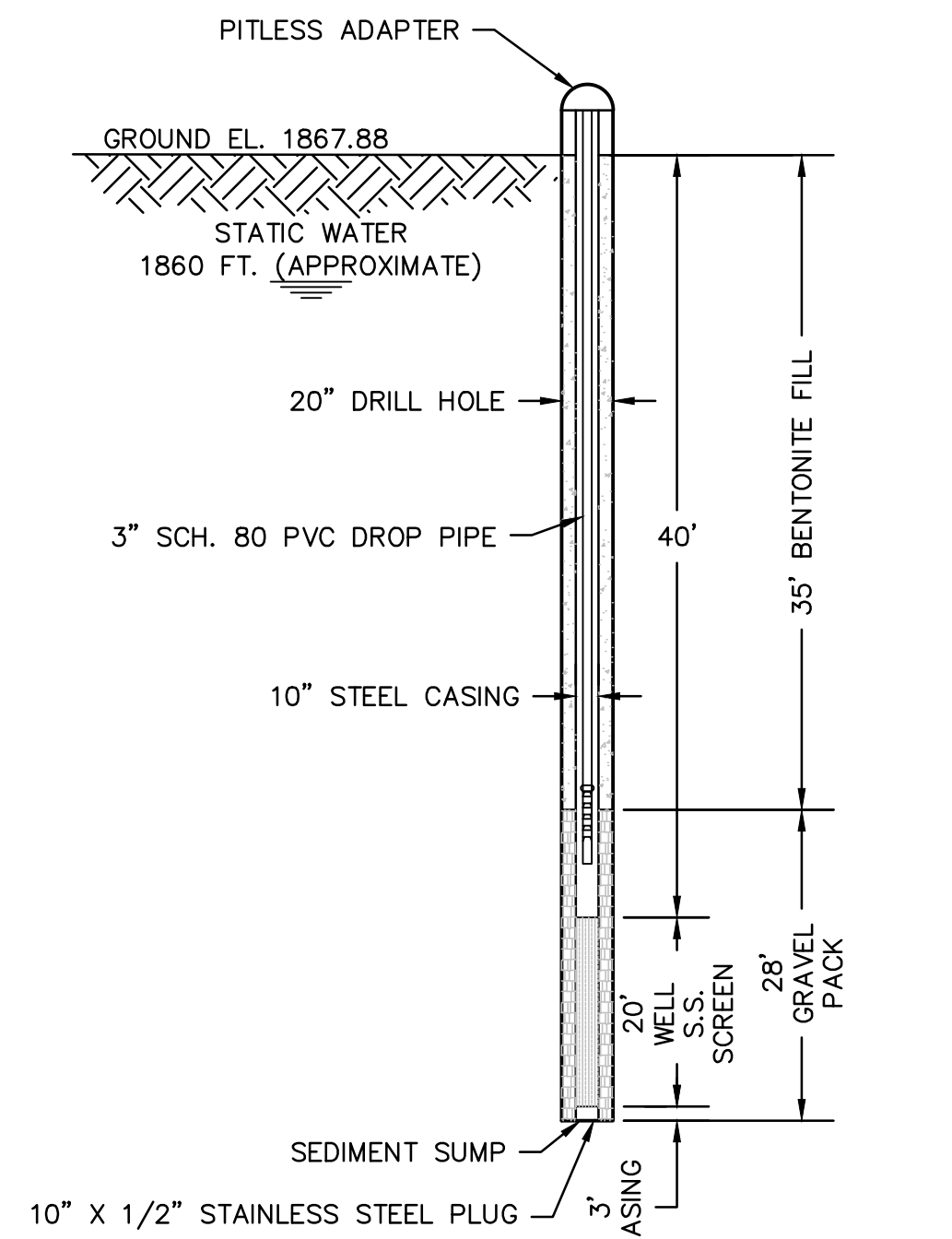
NOTE: FENCE GATES TO BE SALVAGED AND REUSED IN NEW LOCATIONS SHOWN ON SHEET C6.0



TYPE "G" STANDARD SLEEVE
(BORE HOLE)



ADDRESS SIGN DETAIL
NOT TO SCALE



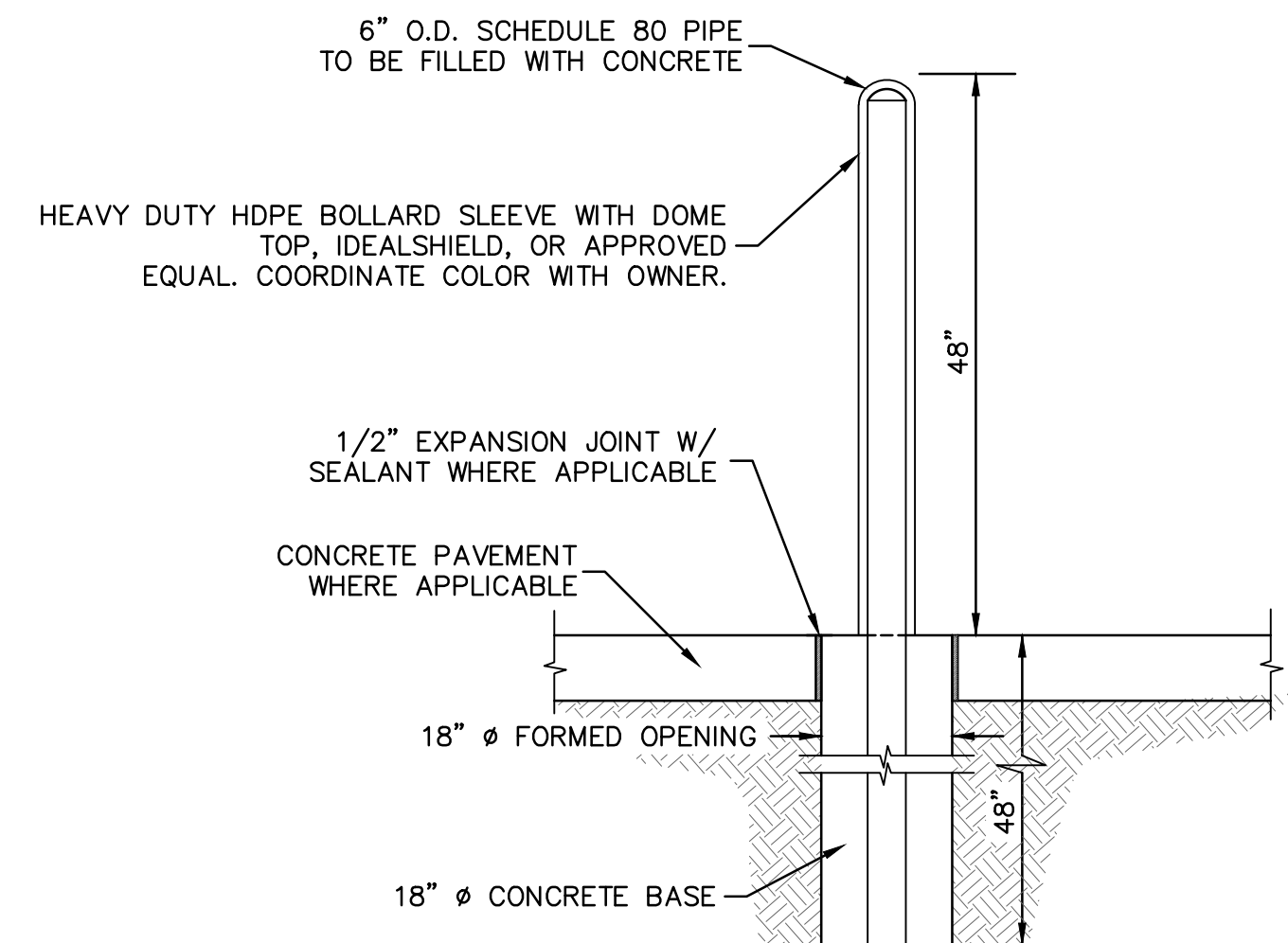
3" NON POTABLE SUBMERSIBLE WELL
NOT TO SCALE

NON-POTABLE SUBMERSIBLE WELL NOTES

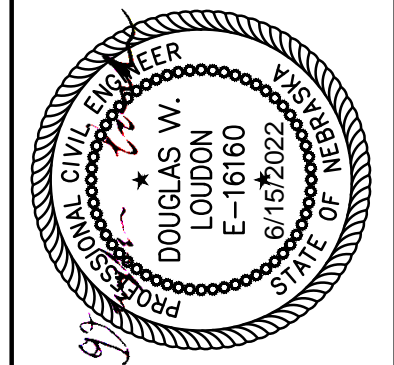
THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS NECESSARY FOR THE INSTALLATION OF A FUNCTIONING NON-POTABLE WATER WELL (SAND FREE) THAT WILL PROVIDE 110 GPM AT 140 PSI DISCHARGE PRESSURE AT THE CONNECTION TO THE WASHDOWN SYSTEM AT THE TOP OF THE TANK. THE SYSTEM IS TO OPERATE ON AN ACROSS-THE-LINE MOTOR STARTER. THE ITEMS THAT ARE TO BE COMPLETED ARE:

1. DRILL TEST WELL AT SITE TO VERIFY FORMATION AND OBTAIN FORMATION SAMPLES.
2. INSTALL 1.5" MONITOR WELL PRIOR TO DECOMMISSION OF TEST WELL.
3. PROVIDE RECOMMENDATION TO OWNER AND ENGINEER ON SCREEN SLOT SIZE, LENGTH, AND PLACEMENT. PROVIDE RECOMMENDATION TO OWNER AND ENGINEER ON GRAVEL PACK.
4. DRILL AND INSTALL THE APPROVED SCREEN AND CASING FOR THE WELL.
5. DEVELOP WELL. TEST PUMP THE WELL AND COMPLETE A 13 PARAMETER WATER QUALITY TEST ON WELL WATER (CONTRACTOR IS RESPONSIBLE FOR TESTING COSTS).
6. FURNISH AND INSTALL A SUBMERSIBLE PUMP, MOTOR AND PITLESS ADAPTOR IN THE WELL.
7. MOTOR SHALL BE A MINIMUM 15 HP WITH 80% MOTOR-TO-WATER EFFICIENCY. 2

NOTE: FORMATION, DEPTH, SCREEN LENGTH, SCREEN SLOT SIZE, AND GRAVEL PACK ARE ESTIMATED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL EMPLOY A WELL CONTRACTOR TO DRILL A TEST HOLE AT THE LIFT STATION SITE TO VERIFY THE WELL FORMATION. NO ADJUSTMENTS IN QUANTITIES WILL BE MADE. CONTRACTOR TO VERIFY QUANTITIES DURING PROJECT BIDDING.



BOLLARD
NOT TO SCALE



REV. NO.	DATE	REVISIONS DESCRIPTION
2	6/15/2022	ADDENDUM 2

SITE DETAILS	LIFT STATION 28 EQUALIZATION TANK	2022
	CITY PROJECT #2022-S-3	GRAND ISLAND, NE

drawn by: ORV
 checked by: DWL
 approved by: JRB
 QA/QC by: MDM
 project no.: 021-05281
 drawing no.: C9.2
 date: 6/14/22