

**VILLAGE OF TUSCARAWAS  
TUSCARAWAS COUNTY, OHIO**

**WATER SYSTEM IMPROVEMENTS**

**ADDENDUM #2**

**APRIL 1, 2021**

**THRASHER PROJECT #101-010-10001**

TO WHOM IT MAY CONCERN:

The following are clarifications and responses to questions posed by Contractors for the above-referenced project.

**A. GENERAL**

1. Apparent low bidder will be required to provide references by end of business day on day of the bid, April 7<sup>th</sup>, 2021.

**B. SPECIFICATIONS**

1. Under Specification 033000 – Cast-In-Place Concrete, Page 7, Section 2.3.H added.

**C. DRAWINGS**

1. Plan Sheet P1 was revised, added notes number five through eight. Revised Plan Sheet P1 is attached to Addendum.
2. Plan Sheet P2 was revised. Revised Plan Sheet P2 is attached to Addendum.
  - a. Notes 6-7 added to “Glass-Lined Tank Foundation Detail.”
  - b. Revised “Glass-Lined Tank Foundation Detail” to show revised foundation material/subgrade.

**D. QUESTIONS AND RESPONSES**

**QUESTION**

1. The geotechnical report has the ringwall footing bearing 3.5 feet below grade. The project drawings show 4.5 feet. Can the ringwall depth be clarified?

**RESPONSE**

The ringwall dimensions shown on the Glass-Lined Tank Foundation Detail on sheet P2 are to be used over any other dimensions given in the geotechnical report or elsewhere.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 10:30 a.m. on Wednesday, April 7, 2021 at 212 E Cherry St, Tuscarawas, OH, 44682.

Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



Scott Wangler, P.E.  
Project Manager



4-1-21

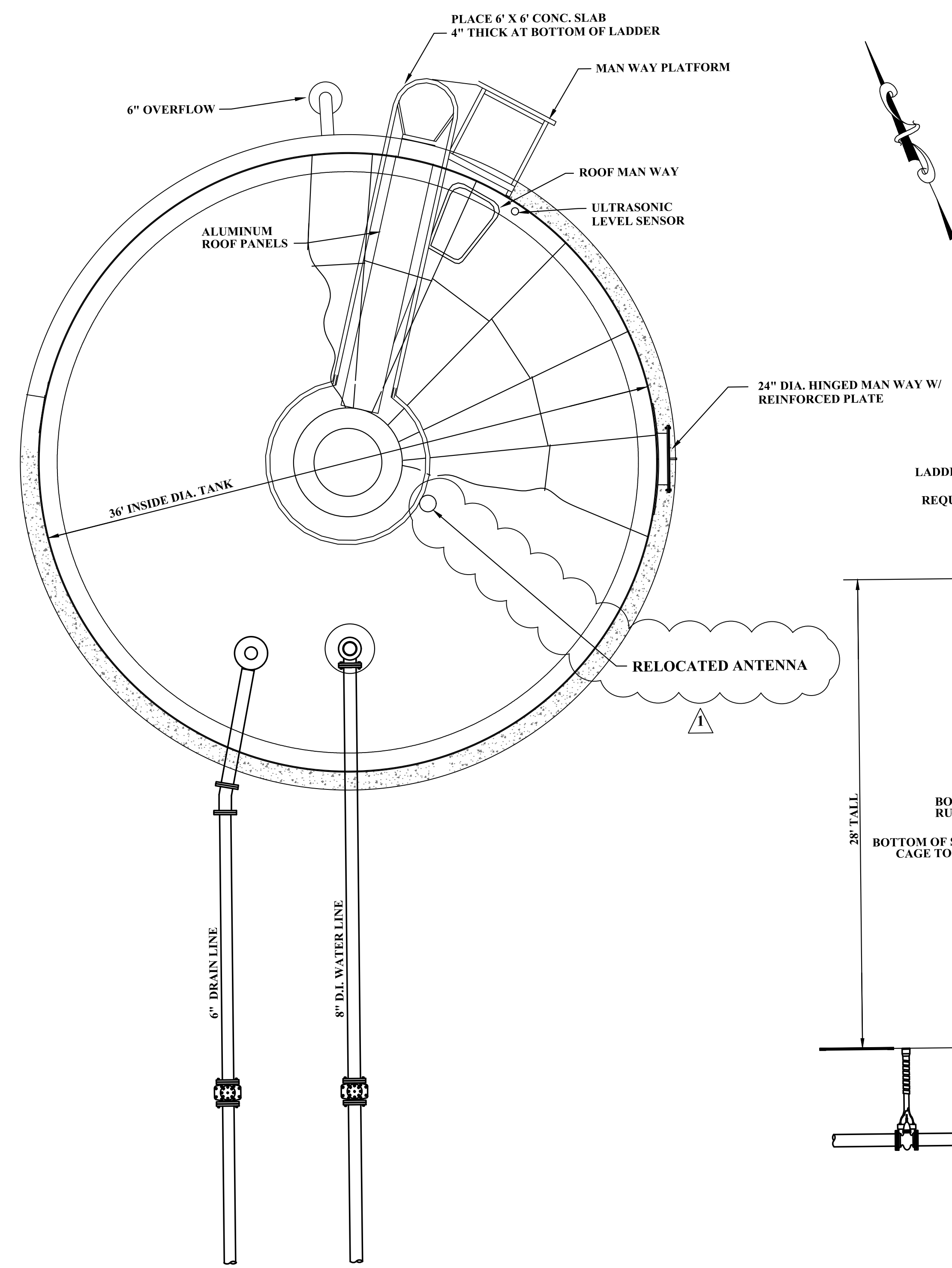
Village of Tuscarawas  
Water System Improvements

2. Cold Weather:
    - a. Use accelerating admixtures in cold weather.
    - b. Use of admixtures will not relax cold-weather placement requirements.
  3. Hot Weather: Use set-retarding admixtures.
  4. Do not use calcium chloride or admixtures containing calcium chloride.
  5. Add air entrainment admixture to concrete mix for Work exposed to freezing and thawing.
  6. For concrete exposed to deicing chemicals, limit fly ash, pozzolans, silica fumes, and slag content as required by applicable code.
- E. Average Compressive Strength Reduction: Permitted according to ACI 318.
- F. Ready-Mixed Concrete: Mix and deliver concrete according to ASTM C94.
- G. Site-Mixed Concrete: Mix concrete according to ACI 318.
- H. Lean Concrete: Under proposed storage tank foundation**
1. **Aggregate Size: Size 57 (1 inch)**
  2. **Slump: 3 to 5 inches**
  3. **Min Strength: 1500 psi (10.3 MPa)**

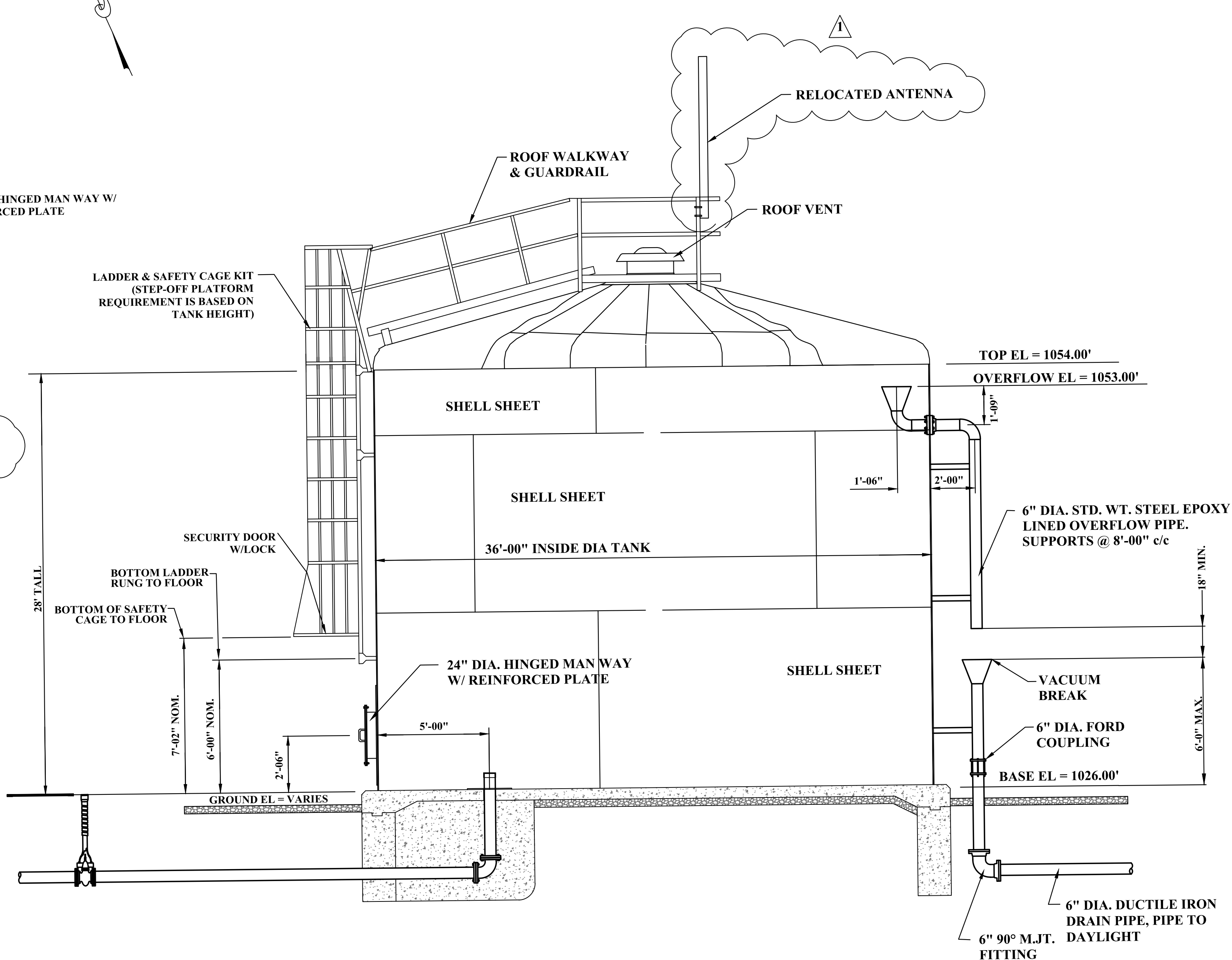
2.4 ACCESSORIES

- A. Bonding Agent:
1. Manufacturers:
    - a. Euclid Chemical Company
    - b. Quikrete
    - c. Sika Corporation.
    - d. Substitutions: As specified in Section 016000 - Product Requirements.
- B. Vapor Retarder:
1. Manufacturers:
    - a. GCP Applied Technologies
    - b. Raven Industries, Inc.
    - c. Stego Industries, LLC
    - d. W.R. Meadows, Inc..
    - e. Substitutions: As specified in Section 016000 - Product Requirements.
  2. Comply with ASTM E1745, Class A.
  3. Thickness: 6 mils.
  4. Type: As recommended for below-grade application.

USER: chris.l.shuster  
 LAYOUT: P1  
 PLOT DATE/TIME: 4/17/2021 2:35 PM  
 CAD FILE: R:\010\010-10001 - WATER - VILLAGE OF TUSCARAWAS\Drawing\Storage Tank.dwg



**PLAN VIEW**  
**PROPOSED 200,000 GALLON GLASS LINED**  
**BOLTED STEEL RESERVOIR**  
 NOT TO SCALE



**ELEVATION VIEW**  
**PROPOSED 200,000 GALLON GLASS LINED**  
**BOLTED STEEL RESERVOIR**  
 NOT TO SCALE

**GENERAL CONSTRUCTION NOTES**

1. ALL WATER LINES ARE TO BE PLUGGED AT THE END OF EACH WORKING DAY BY MEANS OF A MECHANICAL JOINT CAP OR PLUG IN ORDER TO AVOID ROCKS, ANIMALS OR OTHER OBJECTS FROM ENTERING.
2. THE TANK FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH AWWA STD. D-103 SEISMIC ZONE O, AND 100 MPH WIND VELOCITY.
3. CONTRACTOR SHALL ASSUME A 2000 PSF SOIL BEARING CAPACITY.
4. LOCATIONS OF ITEMS IN PROFILE VIEW EXAGGERATED TO SHOW DETAIL. REFER TO PLAN DETAIL FOR PROCESS ORIENTATION.
5. CONTRACTOR SHALL RELOCATE EXISTING ANTENNA FROM CONTROL BUILDING TO TOP OF STORAGE TANK. CONTRACTOR SHALL ATTACH TO PROPOSED HANDRAIL BY ROOF VENT.
6. RINGWALL FOUNDATION SHOULD BEAR ON EITHER AREA'S SANDSTONE FORMATION OR LEAN CONCRETE BEARING ON SANDSTONE. FOUNDATION SHOULD NOT BEAR ON SOIL FOUNDATION.
7. 12" OF COMPACTED GRAVEL BACKFILL SHALL BE PLACED BETWEEN THE TANK AND THE SUBGRADE OR APPROVED BEARING SURFACE.

**ADDENDUM #2**

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NO.	BY	DATE	DESCRIPTION
1	CLS	3/30/21	ADDED RELOCATED ANTENNA AND ADDED NOTE 5, ADDENDUM 1
2	JLG	4/1/21	ADDED GENERAL NOTES 6 & 7, ADDENDUM 2

SCALE:	
DRAWN: JLG	DATE: AUGUST 2020
CHECKED: RSS	DATE: AUGUST 2020
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

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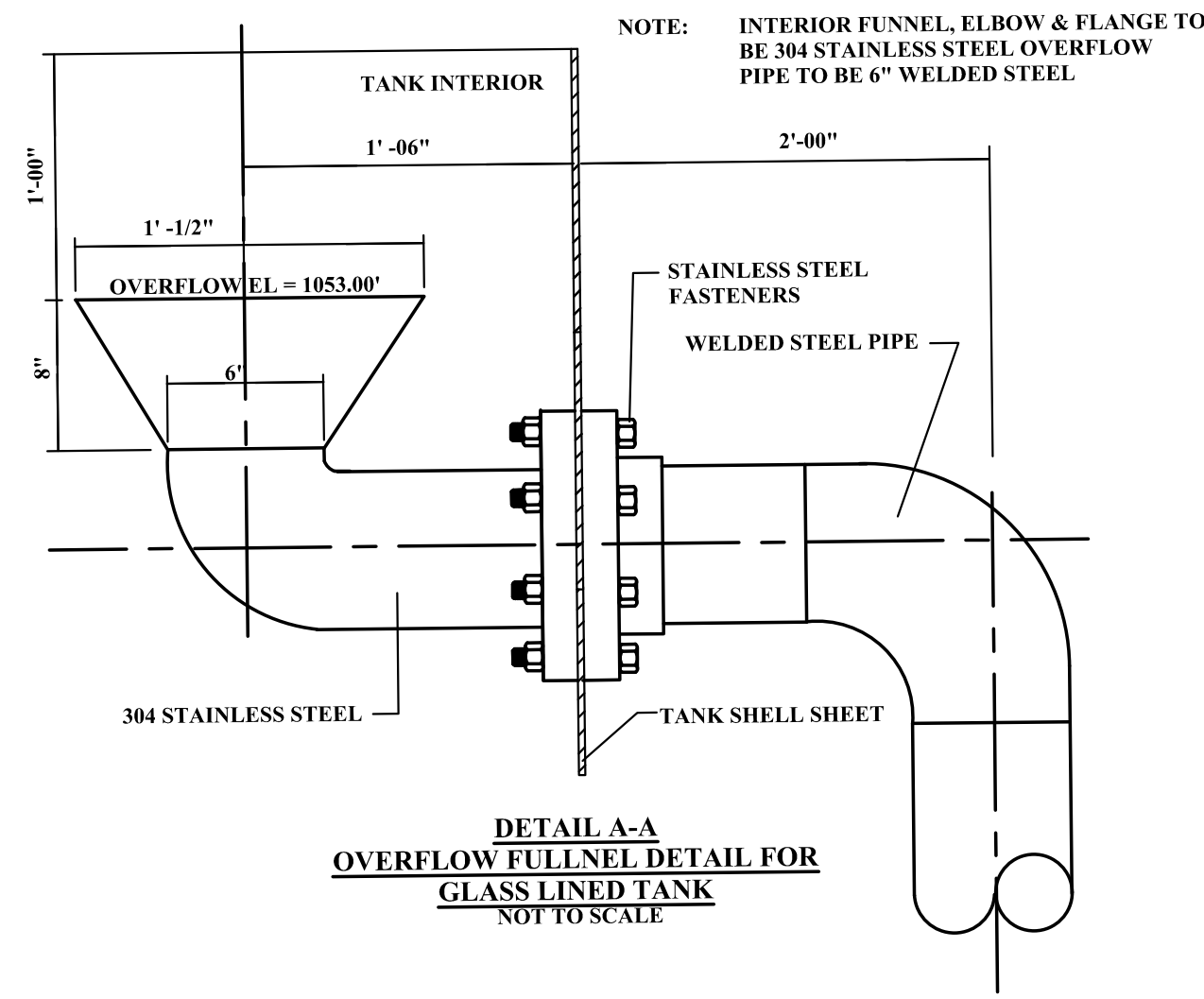
PHASE No.	
CONTRACT No.	
PROJECT No.	101-010-10001

**VILLAGE OF TUSCARAWAS**  
**TUSCARAWAS COUNTY, OHIO**  
**WATER SYSTEM IMPROVEMENTS**  
**PROPOSED WATER STORAGE TANK**  
**DETAILS**

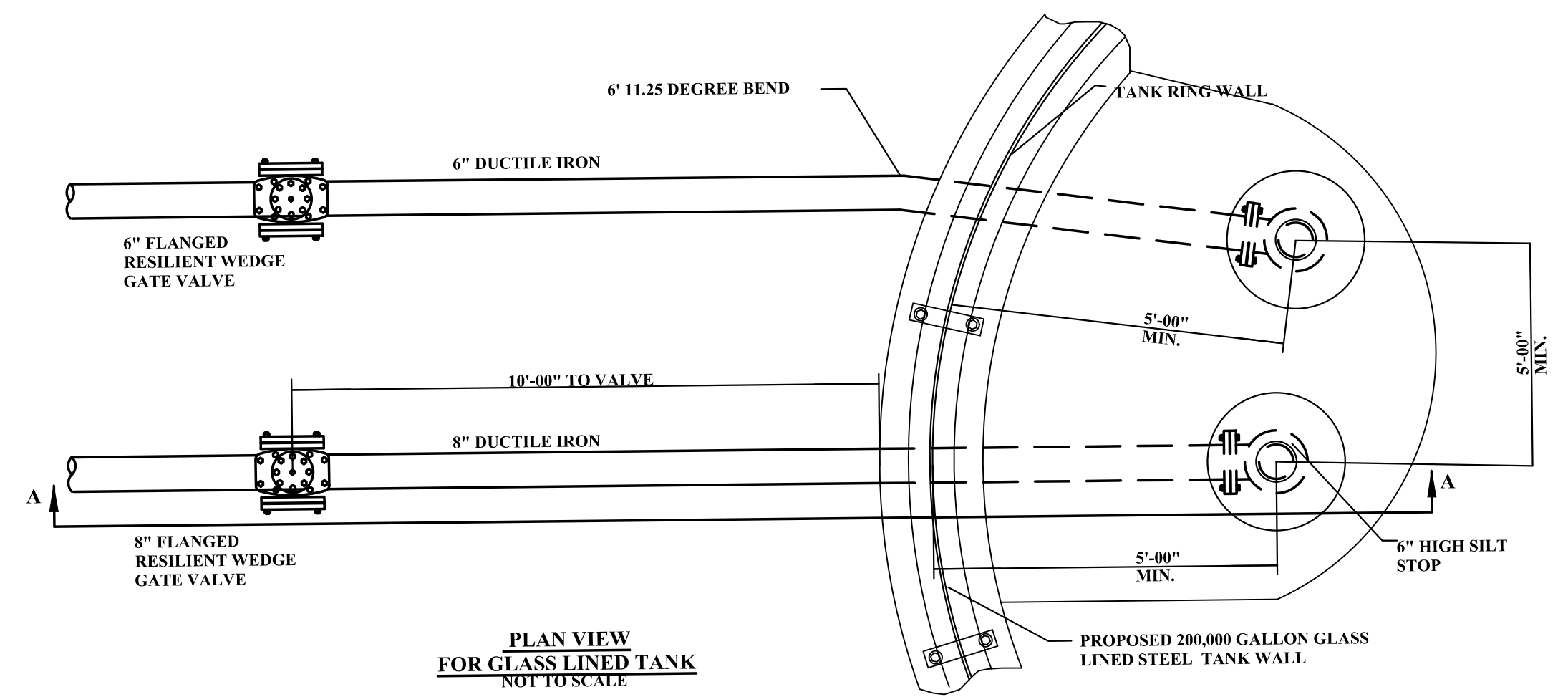
SHEET No.  
**P1**



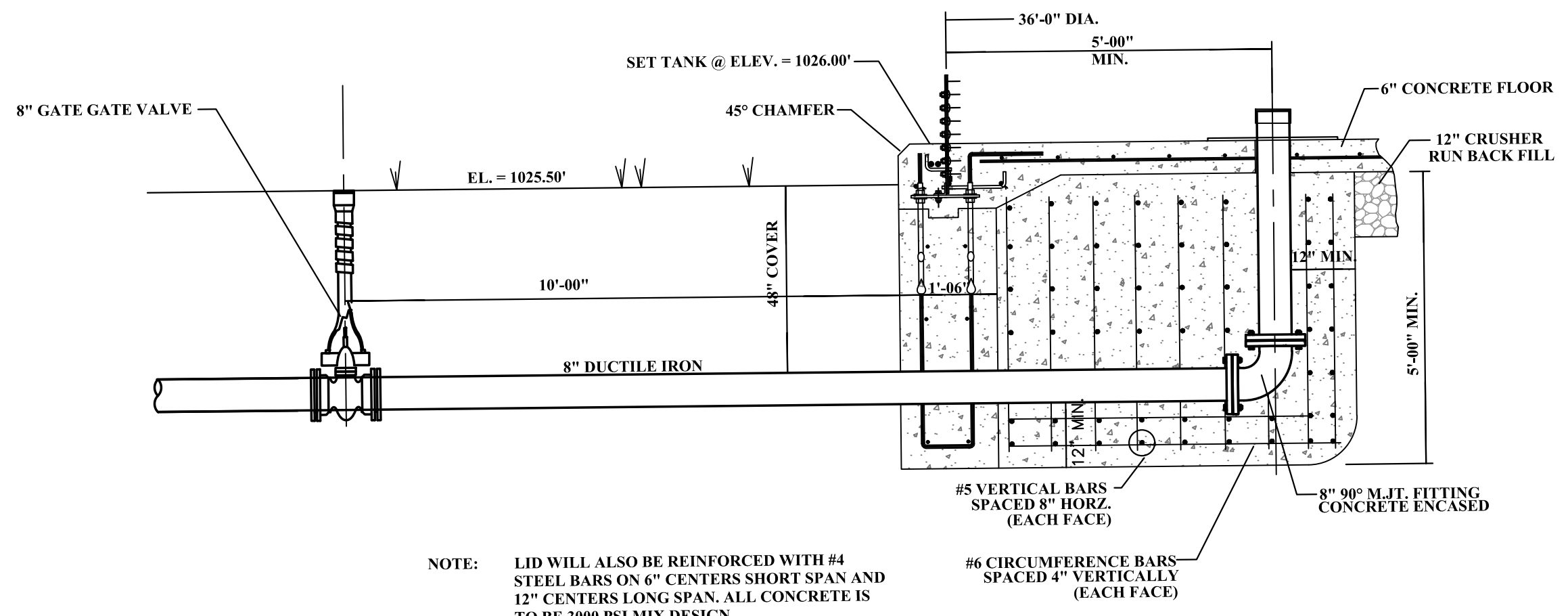
USER: chris.l.shuster  
 LAYOUT: P2  
 PLOT DATE/TIME: 4/17/2021 3:11 PM  
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**DETAIL A-A  
OVERFLOW FULLNEL DETAIL FOR  
GLASS LINED TANK  
NOT TO SCALE**

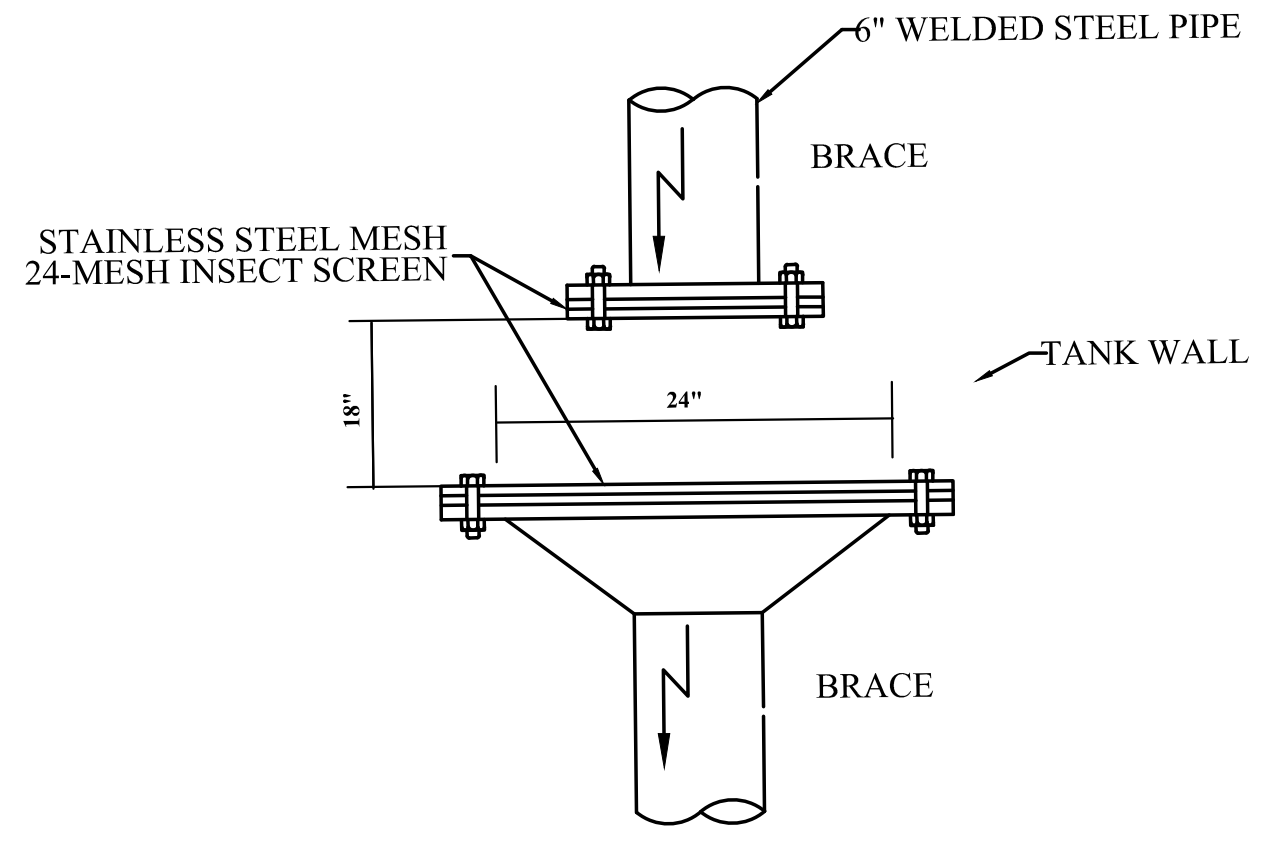


**PLAN VIEW  
FOR GLASS LINED TANK  
NOT TO SCALE**

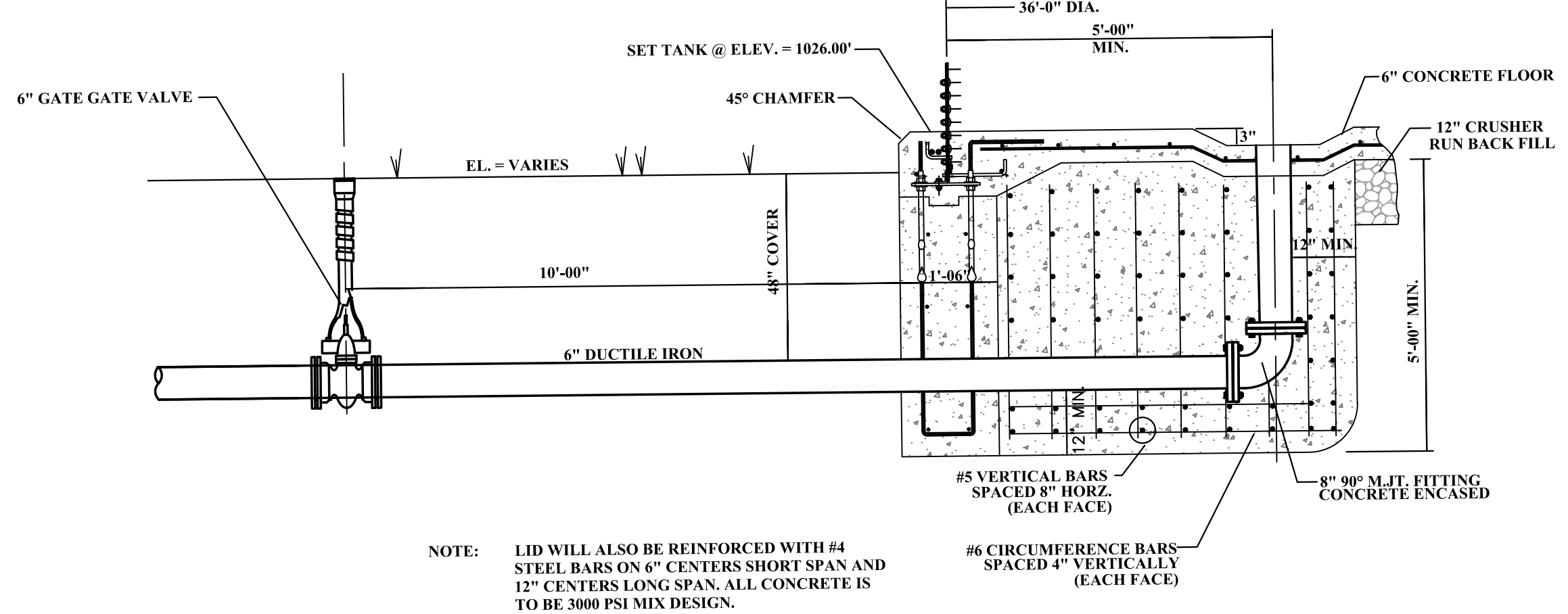


**SECTION A-A FOR  
GLASS LINED TANK INLET LINE  
NOT TO SCALE**

**GENERAL NOTES:**  
 1. FLOOR DESIGN IS BASED ON THE FOLLOWING CRITERIA. TANKS TO HEIGHT 28' BASED ON 2000 PSF SOIL BEARING.  
 2. THE TANK AND FOUNDATION ARE DESIGNED TO AWWA STD. 100 MPH WIND VELOCITY.

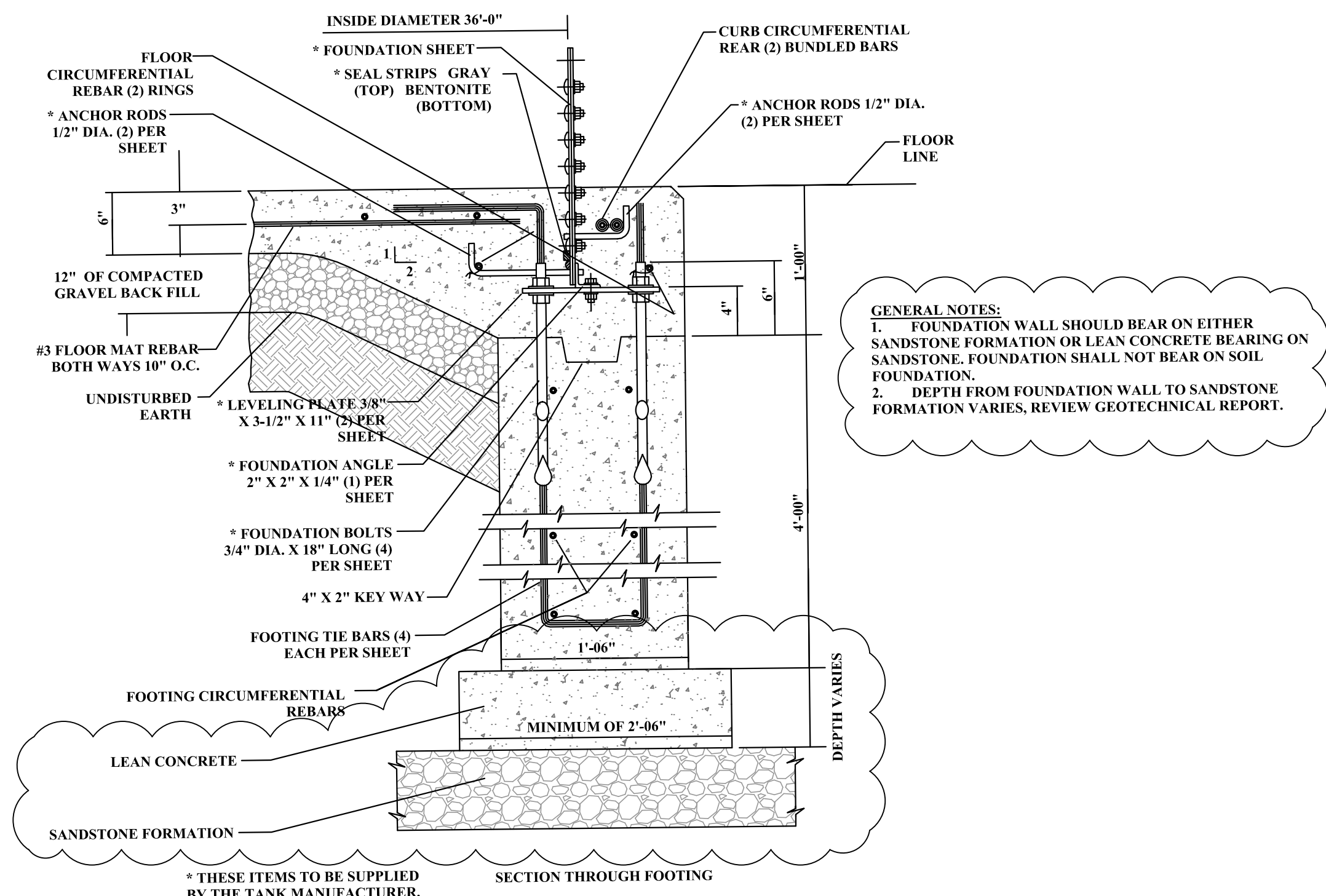


**OVERFLOW PIPE AIR GAP DETAIL  
NO SCALE**



**SECTION A-A FOR  
GLASS LINED TANK DRAIN LINE  
NOT TO SCALE**

**GENERAL NOTES:**  
 1. FLOOR DESIGN IS BASED ON THE FOLLOWING CRITERIA. TANKS TO HEIGHT 28' BASED ON 2000 PSF SOIL BEARING.  
 2. THE TANK AND FOUNDATION ARE DESIGNED TO AWWA STD. 100 MPH WIND VELOCITY.



**GLASS-LINED TANK FOUNDATION DETAIL**

**GENERAL NOTES:**  
 1. FOUNDATION WALL SHOULD BEAR ON EITHER SANDSTONE FORMATION OR LEAN CONCRETE BEARING ON SANDSTONE. FOUNDATION SHALL NOT BEAR ON SOIL FOUNDATION.  
 2. DEPTH FROM FOUNDATION WALL TO SANDSTONE FORMATION VARIES, REVIEW GEOTECHNICAL REPORT.

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NO.	BY	DATE	DESCRIPTION
1	CLS	4/1/21	REVISED GLASS-LINED TANK FOUNDATION DETAIL, ADDENDUM 2

SCALE:	DATE: AUGUST 2020
DRAWN: JLG	DATE: AUGUST 2020
CHECKED: RSS	DATE: AUGUST 2020
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

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 TUSCARAWAS COUNTY, OHIO  
 WATER SYSTEM IMPROVEMENTS  
 PROPOSED WATER STORAGE TANK  
 DETAILS**

SHEET No.  
**P2**