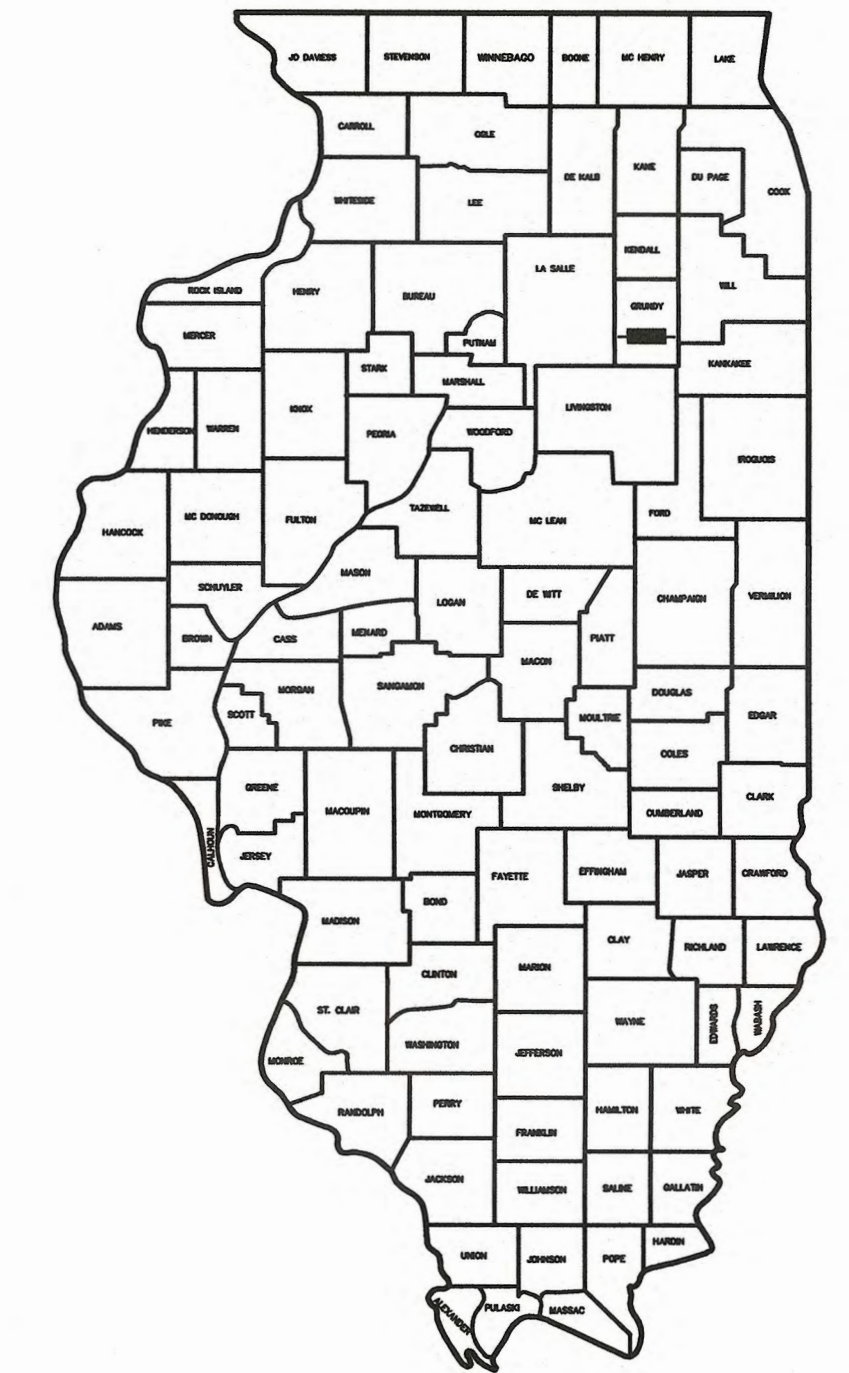


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25. WTP BUILDING WASTE PIPING PLUMBING PLAN
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54. PLAN AND PROFILE STA. 136+00 TO STA. 148+00
55. PLAN AND PROFILE STA. 148+00 TO STA. 158+00

VILLAGE OF MAZON NEW WATER TREATMENT PLANT GRUNDY COUNTY, IL 2026



LOCATION OF PROJECT INDICATED THUS: —■—



LOCATION MAP



UTILITY SERVICE	CONTACT
WATER	VILLAGE OF MAZON PUBLIC WORKS DEPARTMENT
ELECTRICAL POWER	COMED
NATURAL GAS	NICOR GAS
TELEPHONE	COMCAST
CABLE	COMCAST CABLE
SANITARY SEWER	VILLAGE OF MAZON PUBLIC WORKS DEPARTMENT

THIS PROJECT IS FUNDED WITH FEDERALLY SOURCED FUNDS AND IS SUBJECT TO THE BUILD AMERICA, BUY AMERICA (BABA) ACT. COMPLIANCE WITH THE ACT IS REQUIRED FOR ALL EQUIPMENT AND MATERIALS USED.



PERU
OTTAWA MORRIS
ILLINOIS

DRAWN BY: CLD	REVISIONS			
CHECKED BY: TRH	LEVEL	BY	DATE	DESCRIPTION
DATE: 06/2025	1	CLD	1/28/26	REVISED FORCE MAIN AT RAIL ROAD CROSSING

BIDDING PLANS	CURRENT AS OF: 02/06/2026	
	SCALE: NTS	SHEET 1
	FILE NO.: 9936.02 Y-	OF 55

2/6/2026
date

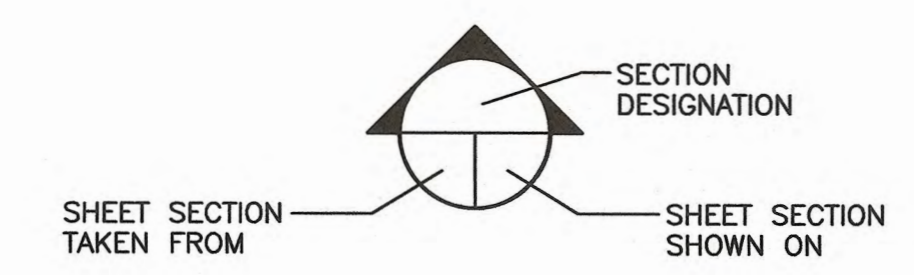
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PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717

2/6/26
date

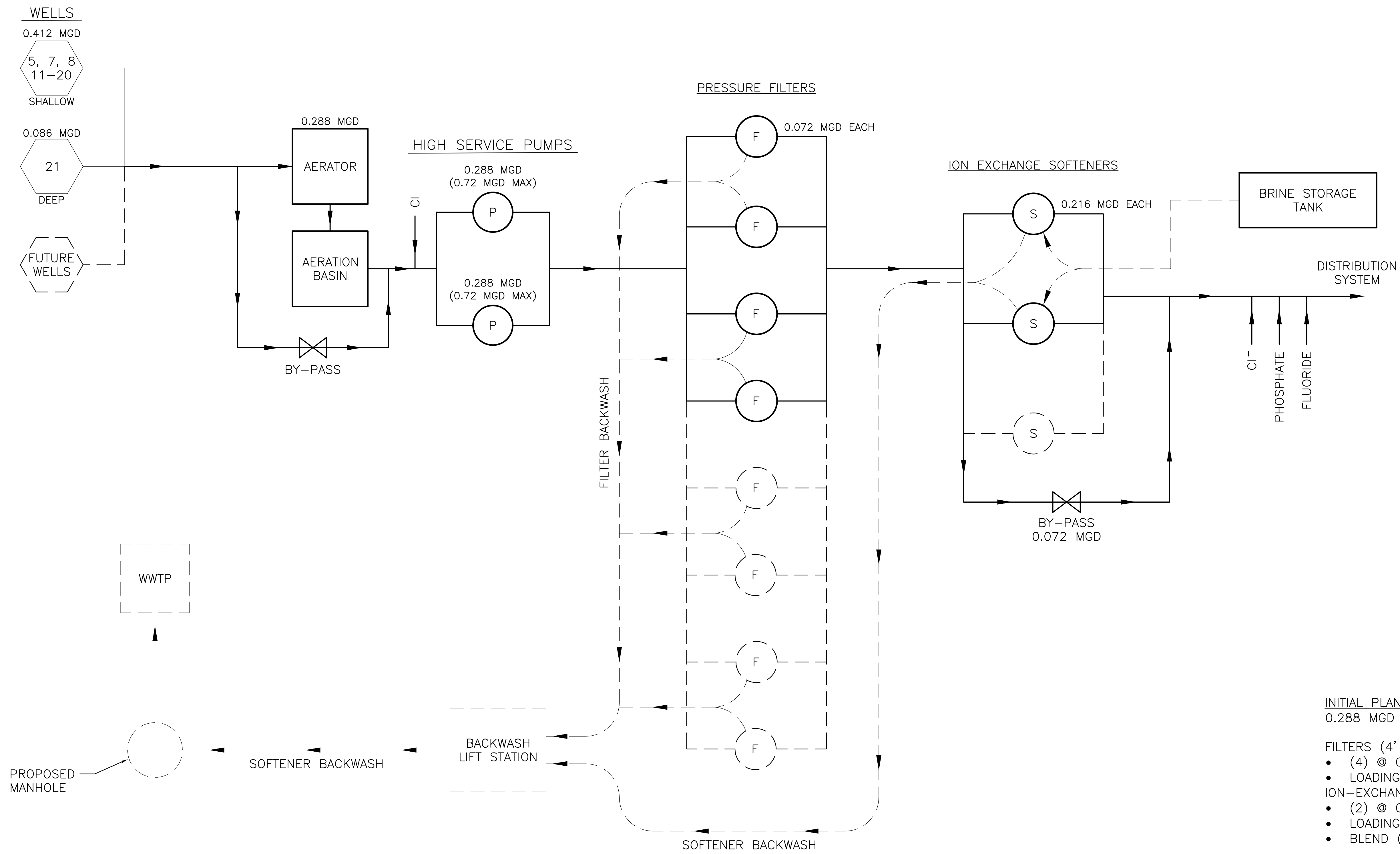
signature

PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717



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Plotted On: Friday, February 6, 2026 2:14:40 PM
by Lily Pawelczyk

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jja\OneDrive - Chamlin & Associates, Inc.\Desktop\New Water Treatment Plant\CAD\002-PROCESS FLOW SCHEMATIC.dwg Last Modified: Friday, February 6, 2026 2:59:45 PM Plotted On: Friday, February 6, 2026 3:01:31 PM by Jonathon Covert



- INITIAL PLANT**
0.288 MGD (200 gpm)
- FILTERS (4' DIAMETER)**
- (4) @ 0.072 MGD (50 gpm) EACH
 - LOADING RATE: 3.98 gpm/SF
- ION-EXCHANGE SOFTENERS (5' DIAMETER)**
- (2) @ 0.108 MGD (75 gpm) EACH
 - LOADING RATE: 3.82 gpm/SF
 - BLEND (25%): 0.072 MGD (50 gpm)
- FUTURE PLANT**
0.576 MGD (400 gpm)
- FILTERS (4' DIAMETER)**
- (8) @ 0.072 MGD (50 gpm) EACH
 - LOADING RATE: 3.98 gpm/SF
- ION-EXCHANGE SOFTENERS (5' DIAMETER)**
- (3) @ 0.144 MGD (100 gpm) EACH
 - LOADING RATE: 5.09 gpm/SF
 - BLEND (25%): 0.144 MGD (100 gpm)

——— EXISTING
 - - - - - BACKWASH
 ——— PROPOSED
 - - - - - FUTURE

DRAWN BY: JJC	REVISIONS			
CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 10/2024				



**VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026**

PROCESS FLOW SCHEMATIC

BIDDING PLANS

CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 2

FILE NO.: 9936.02 Y- OF 55

GENERAL NOTES

The Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" adopted January 1, 2022, and Supplemental Specifications and Recurring Special Provisions (latest edition), the "Standard Specifications for Water and Sewer Construction in Illinois" 8th Edition 2020 shall govern applicable portions of this project.

It shall be the responsibility of the Contractor to examine the Plans and Specifications, visit the work site, be informed of the work involved, be informed of federal, state, and local laws, local code requirements, ordinances, rules and regulations, and any other items which may affect the cost and/or time to complete the project. It is the Contractor's responsibility to notify the Engineer should any discrepancies be noticed between the Plans, Specifications, or work site.

The location of existing underground or overhead utilities if shown on the Plans is for the convenience of the Bidder only. The Owner and/or Engineer assumes no responsibility whatsoever with respect to the accuracy or completeness of the information shown. It shall be the responsibility of the Contractor to determine the actual location of all such utilities.

The Contractor shall be responsible for the proper protection of all existing public or private roadways, structures, and utilities prior to the start of construction and shall be responsible for any damage to said roadways, structures, and utilities. Any roadway, structure, or utility that is damaged during construction shall be repaired or replaced by the Contractor at the Contractor's expense.

When survey control points are set by the Engineer to establish the horizontal and vertical control required for the construction of the various contract items of work, the Engineer shall be responsible for the accuracy of the control points set. The Contractor shall assume full responsibility for all measurements taken or derived by the Contractor from control points set by the Engineer.

The Contractor shall protect and preserve all control points or reference stakes set by the Engineer. Should the Contractor disturb any control point or reference stake without the prior approval of the Engineer, the Engineer may deduct the direct engineering cost incurred in the re-establishment of the control point or reference stake from compensation due the Contractor.

Traffic control shall be in accordance with applicable portions of the Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" adopted January 1, 2022, and Supplemental Specifications and Recurring Special Provisions (latest edition) and the latest edition of the "Illinois Manual for Uniform Traffic Control for Streets and Highways". The Contractor shall be solely responsible for use of appropriate Illinois Department of Transportation Highway Standards pertaining to traffic control for the entire duration of the project and solely liable for any accidents, which may occur due to inadequate traffic control.

All public roadways shall remain open throughout the project unless prior consent is granted by the Municipality for any Contractor-requested roadway closures. The Contractor shall make arrangements or schedule work so that access to properties within the work site is maintained at all times.

Unless otherwise provided, traffic control shall be considered incidental to the contract.

All field tile lines encountered during construction shall be routed around the site. This work shall be performed at the unit price per linear foot bid for $\leq 10"$ diameter or $\geq 12"$ diameter tile for actual feet installed in accordance with the IDOT Standard Specifications. The amount of 100 LF for each tile designation shall be included within the base bid.

Should hazardous materials be encountered during construction, the Contractor shall immediately notify the Owner or Owner's Representative.

All clean construction demolition debris (CCDD) certification/disposal (if required) shall be the responsibility of the Contractor.

When requested by the Owner, the Engineer shall provide construction inspection to ascertain the work is in substantial conformance with the Contract Documents and with the design intent. The Engineer's undertaking shall not relieve the Contractor from the Contractor's obligation to perform work in conformity with the Plans and Specifications and in a workmanlike manner; shall not make the Engineer an insurer of the Contractor's performance; and shall not impose upon the Engineer any obligation to ensure that the work is performed in a safe manner. The Contractor shall be totally responsible for safety for this project.

The Contractor shall record the vertical and horizontal locations of all pipe bends, valves, manholes, sewer service taps and all additional information necessary for the preparation of "As Constructed" plans. The "As Constructed" plans will be prepared by the Owner or Owner's Representative.

Handicap parking stalls to have pavement markings and signage that meets the specifications identified in the Illinois Accessibility Code.

EROSION CONTROL

Soil erosion and sediment control shall be in accordance with applicable portions of the Illinois Urban Manual, latest edition.

Provisions shall be made to minimize the transport of sediment by vehicular traffic from the construction site. All public streets shall be cleaned daily or as directed by the city representative to keep clean of sediment and debris caused by construction activities. Adjacent properties shall be protected from sediment deposition by use of an acceptable erosion control practice such as vegetative buffer strips or sediment barriers. Should an erosion control item not be included as a Bid Item or not be addressed per Special Provision and be determined necessary by the Engineer, those items will be paid for at a pre-approved unit price.

For construction sites with one (1) acre or more of disturbance, all Contractors and Sub-Contractors will be required to certify a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP, if necessary, and all permits pertaining to soil and erosion control will be prepared and submitted by the Owner/Engineer.

It will be the Contractor/Sub-Contractor's responsibility to implement and follow the SWPPP.

Installation, maintenance, and removal of erosion control devices shall be paid for at the lump sum price for erosion control. Contractor shall employ all erosion control devices as shown on the plans, applicable IDOT Roadway Standards, and applicable Illinois Urban Manual Standards. A temporary concrete washout facility shall be constructed as depicted on the plan if concrete trucks will wash out at the work site.

It will be the Contractor/Sub-Contractor's responsibility to implement and follow the SWPPP.

A copy of the Notice of Intent and/or NPDES Permit along with the associated SWPPP shall be provided to The Village of Mazon.

FORCE MAIN NOTES

The Contractor shall provide all labor, materials, tools, and equipment necessary to construct the sanitary sewer system as detailed on the Plans and in the Specifications.

Force main construction shall be in strict accordance with the "Standard Specifications for Water & Sewer Main Construction in Illinois" latest edition except where noted otherwise on the Plans or in the Specifications.

Pumping of groundwater, sanitary waste bypass pumping, or any other pumping shall be considered incidental to the cost of the sanitary sewer unless otherwise specified.

Any excess excavated material, removed structures, or debris shall be removed from the site and properly disposed of at the Contractor's expense.

Where requested by the Engineer, foundation material shall be placed at locations where unsuitable soils exist or other site conditions warrant foundation material use. Foundation material shall be Type B CA-7.

Bedding, haunching, and initial backfill shall be placed in accordance with ASTM Standard D2321 and shall be considered incidental to the sanitary sewer. Class 1A material, crushed stone or crushed gravel, gradation (CA-7), shall be used for bedding, haunching, and initial backfill.

Trench backfill shall be required for all pipes that are constructed under or within two (2) feet of the edge of existing or proposed pavements, sidewalks, curb and gutters, or other paved surfaces.

Excavated material shall be used for final backfill for all areas not designated for trench backfill.

Trench backfill shall be in accordance with Section 208 of the IDOT Standard Specifications.

Concrete thrust blocking shall be provided at all force main tees and bends. Thrust blocks may be either poured-in-place concrete or pre-cast concrete blocks of a size satisfactory to the engineer.

Force main fittings - force main fittings shall be ductile iron with mechanical joints of the type of the type and size indicated on the plans and shall conform to AWWA C153. Fittings shall be bituminous coated per AWWA C110 and cement lined per AWWA C104.

Materials for the Force Main shall be polyvinyl chloride (PVC) C900 pipe.

TURF RESTORATION

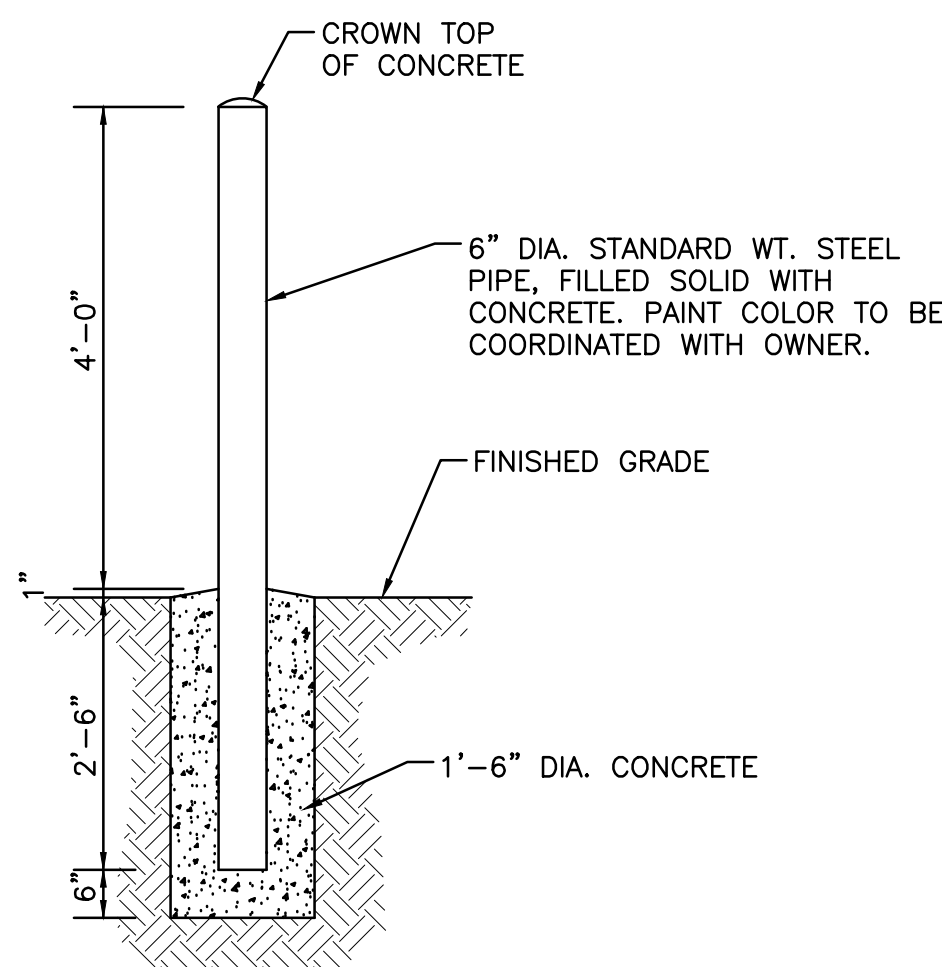
Any disturbed areas to receive stabilization shall receive 6" topsoil and seeding as follows. Seeding shall be Class 1A and shall be hydraulically seeded, all in accordance with Section 250 of the IDOT Standard Specifications. 1:1:1 ratio of N-P-K fertilizer shall be applied at a total rate of 270 LB per acre in accordance with Section 250. Mulch shall be Method 3, hydraulically applied in accordance with Section 251. On slopes 3H:1V and steeper, erosion control blanket shall be installed.

Disturbed areas shall include all bare soils as well as any areas that have been disturbed by incidental construction operations that will require regrading and/or interseeding as directed by the Architect. Topsoil shall be sourced from onsite temporary stockpile from regrading and excavations. Topsoil shall be placed in accordance with Sections 211 and 212 and seedbed shall be prepared in accordance with Section 250.

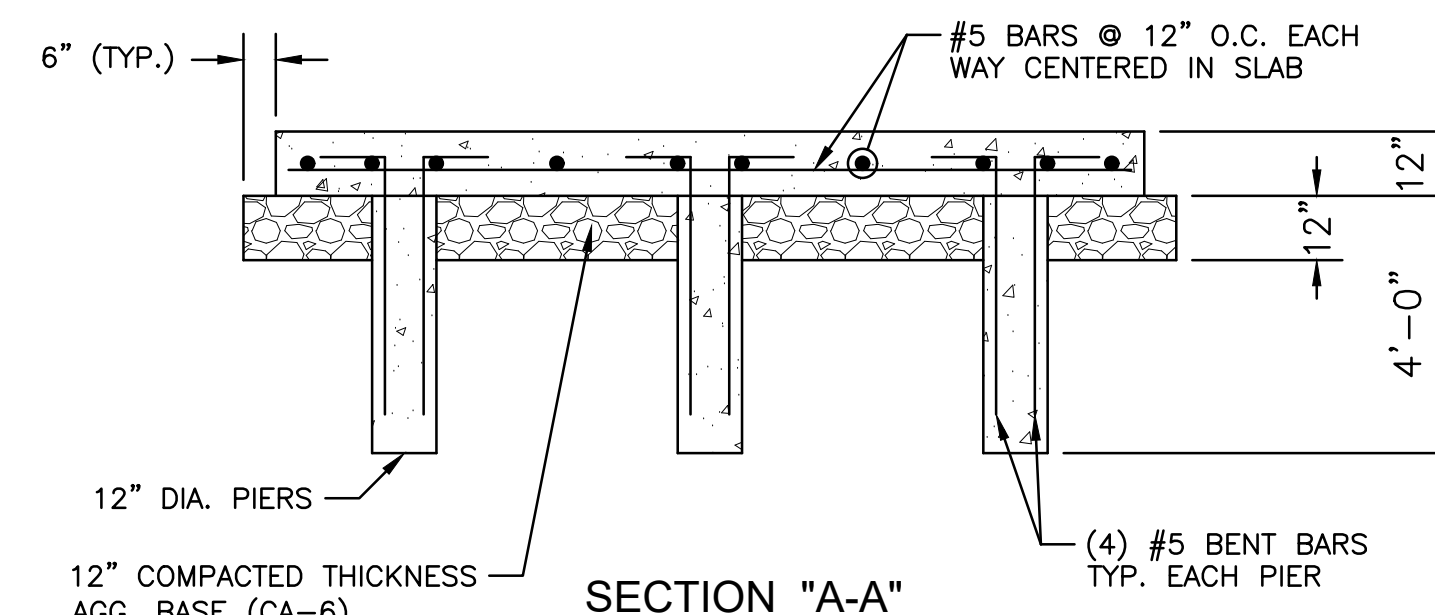
PAVEMENT RESTORATION

Any disturbed pavement shall be restored to match existing material and thickness.

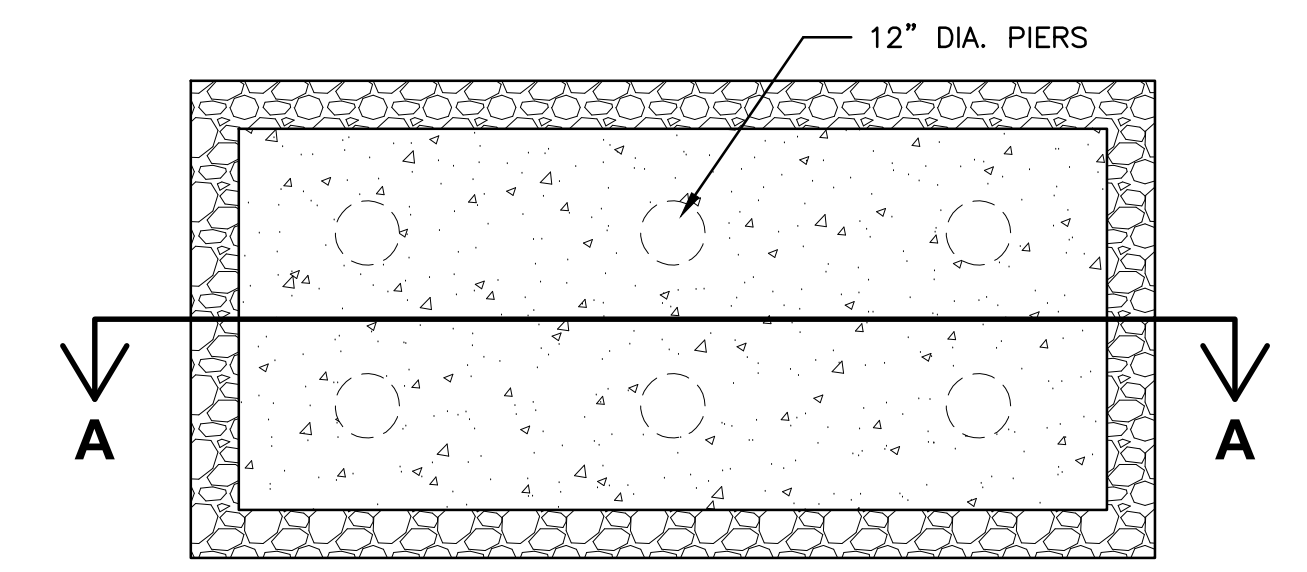
Asphalt pavement restoration shall consist of two lifts of hot mix asphalt Class D Patch in accordance with Section 442 IDOT Standard Specifications.



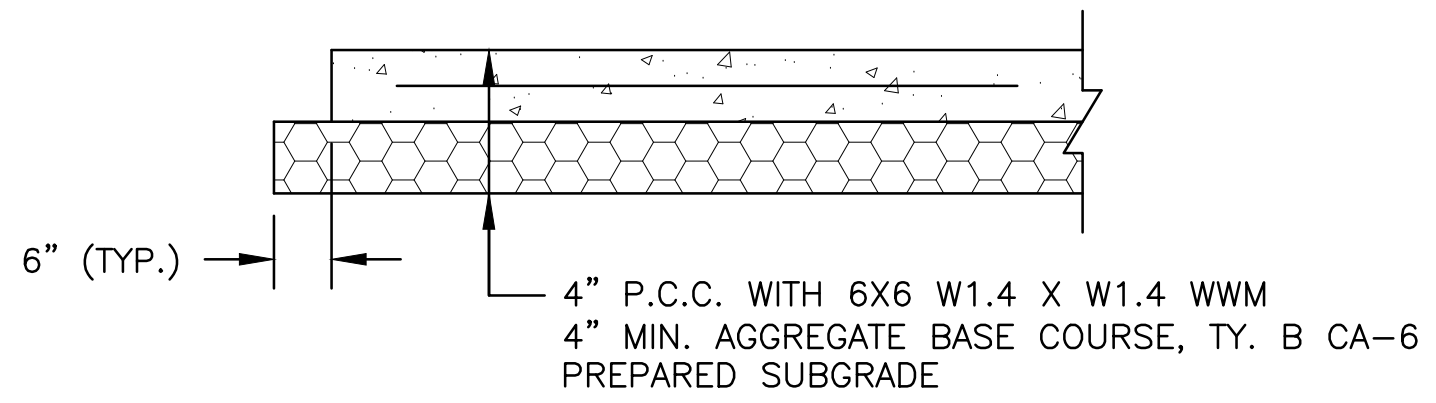
PIPE BOLLARD
N.T.S.



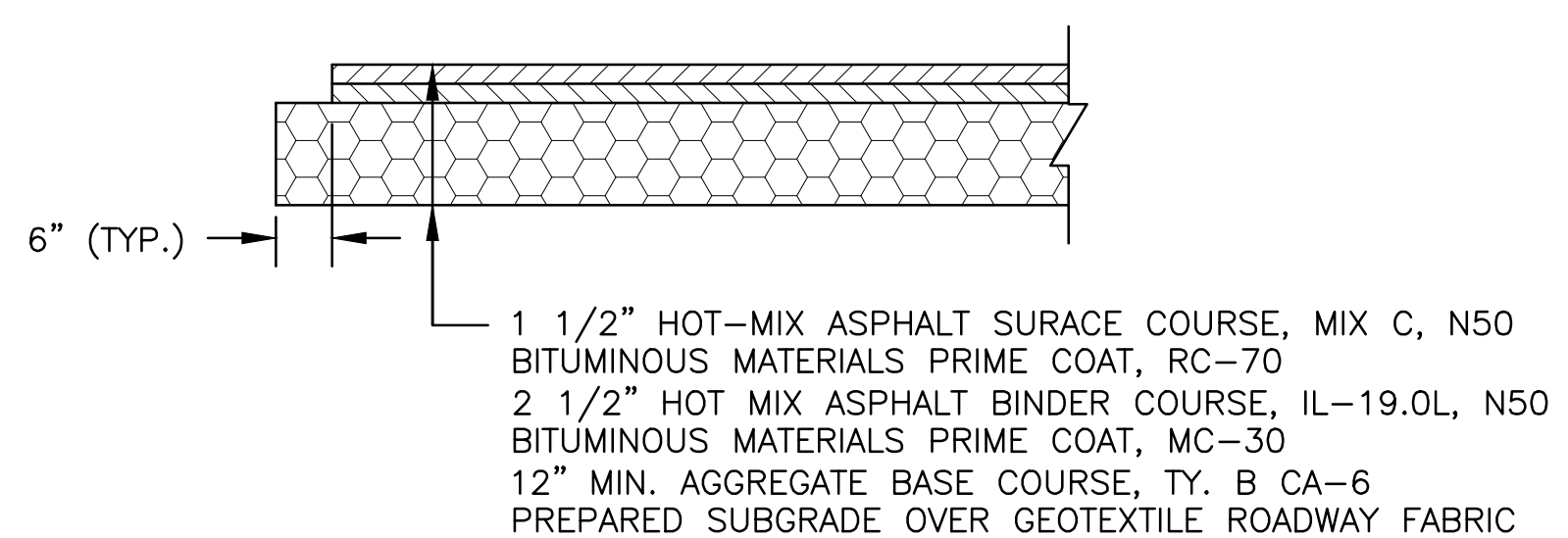
GEN. SET (G-1) BASE DETAIL
N.T.S.



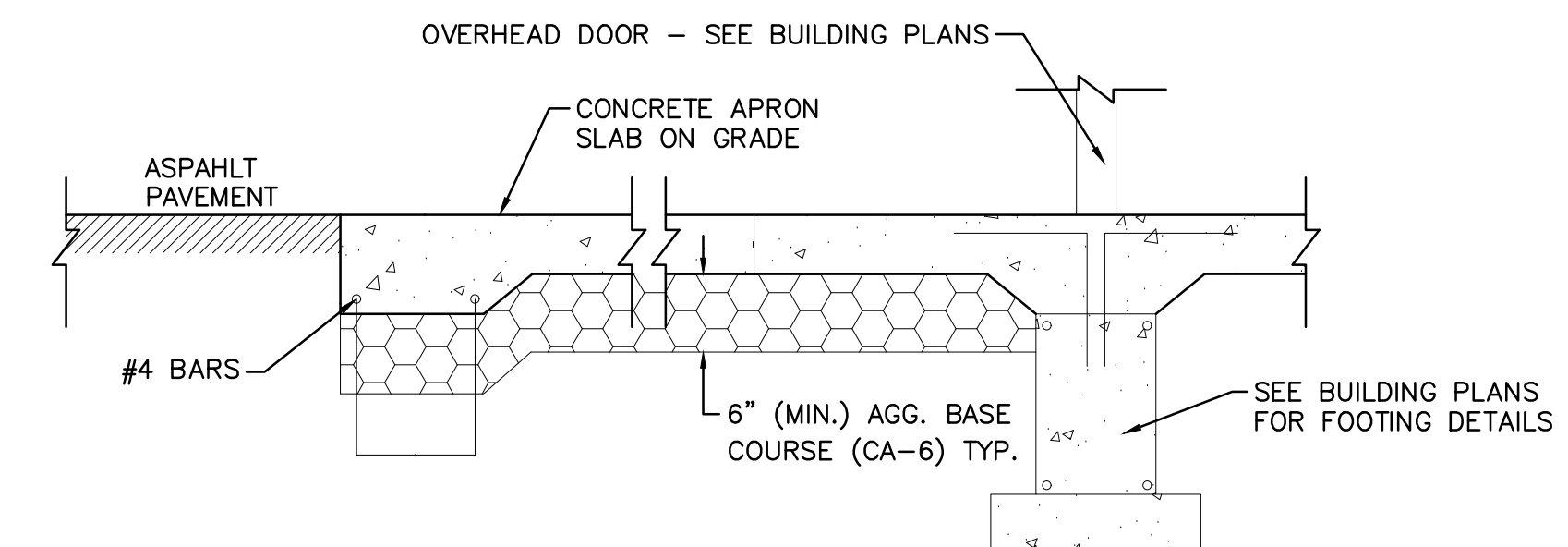
GEN. SET (G-1) BASE DETAIL (TOP VIEW)
N.T.S.



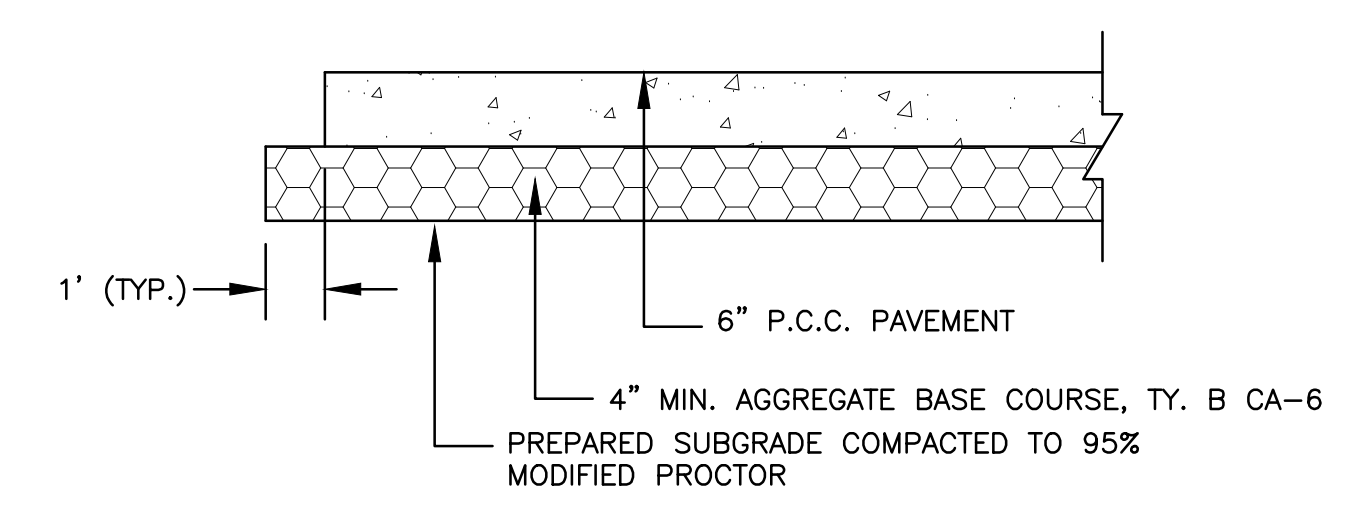
P.C.C. SIDEWALK SECTION
N.T.S.



HOT - MIX ASPHALT TYPICAL SECTION
N.T.S.



P.C.C. CONCRETE APRON AT OVERHEAD DOOR SECTION
N.T.S.



P.C.C. CONCRETE APRON SECTION
N.T.S.

NOTE: PAVEMENT TO BE JOINTED PER IDOT STANDARD 42000 1-10

BNSF RAILWAY CROSSING

All work within BNSF Railway right-of-way shall be in accordance with "BNSF Railway Utility Accommodation Policy".

Proposed force main under existing BNSF railway shall be installed by jacking and boring. Installation shall have a minimum depth of cover of eight (8) feet - three (3) inches from base of rail.

Boring pits shall be located a minimum 30' from the centerline of the track and kept to the minimum size. Use shoring, temporary or permanent, conforming to the most restrictive of state, OSHA, or AREMA recommended practices in all excavations, where required.

All excavations should be protected with fence or guard when left unattended.

Utility marker to be installed at BNSF right-of-way where proposed force main crosses. Utility marker shall include the owner (Village of Mazon), type (sanitary force main), and emergency contact phone number (coordinate with Mazon Public Works).

Force main within BNSF right-of-way shall be encased in steel casing with a minimum wall thickness of 0.188 inches.

Water jetting is not permitted.

Any dirt that is excavated for pits, poles, bores, etc. will remain on BNSF property. BNSF Environmental will be consulted before any soils are removed from BNSF property which can be coordinated through the Construction Inspector.

LEGEND

---	EXISTING LOT LINE
- - - - -	EXISTING RIGHT-OF-WAY
- - - - -	PROPOSED EASEMENT
- - - - -	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- - - - -	EXISTING FENCE
- - - - -	EXISTING CULVERT
- - - - -	EXISTING GAS PIPELINE
- - - - -	EXISTING STORM SEWER
- - - - -	EXISTING SANITARY SEWER
- - - - -	EXISTING TOP/TOE OF SLOPE
- - - - -	PROPOSED UNDERGROUND ELECTRIC
- - - - -	PROPOSED CULVERT
- - - - -	PROPOSED WATER MAIN/SERVICE
- - - - -	PROPOSED SANITARY SEWER
- - - - -	PROPOSED FORCE MAIN
- - - - -	PROPOSED SILT FENCE
- - - - -	PROPOSED UTILITY MARKER
- - - - -	EXISTING CONTOUR
- - - - -	EXISTING UTILITY POLE
- - - - -	EXISTING GUY WIRE
- - - - -	EXISTING CATCH BASIN
- - - - -	EXISTING TELEPHONE BOX
- - - - -	EXISTING WATER VALVE
- - - - -	EXISTING SIGN/MARKER
- - - - -	EXISTING GAS VALVE
- - - - -	EXISTING GATE POST
- - - - -	EXISTING WATER VALVE
- - - - -	EXISTING WELL
- - - - -	CONC
- - - - -	AGG
- - - - -	HMA
- - - - -	DRIVEWAY REMOVAL AND REPLACEMENT

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DRAWN BY: TRH	REVISIONS			
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CHECKED BY: CLD				
DATE: 06/2025				

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OTTAWA MORRIS
ILLINOIS

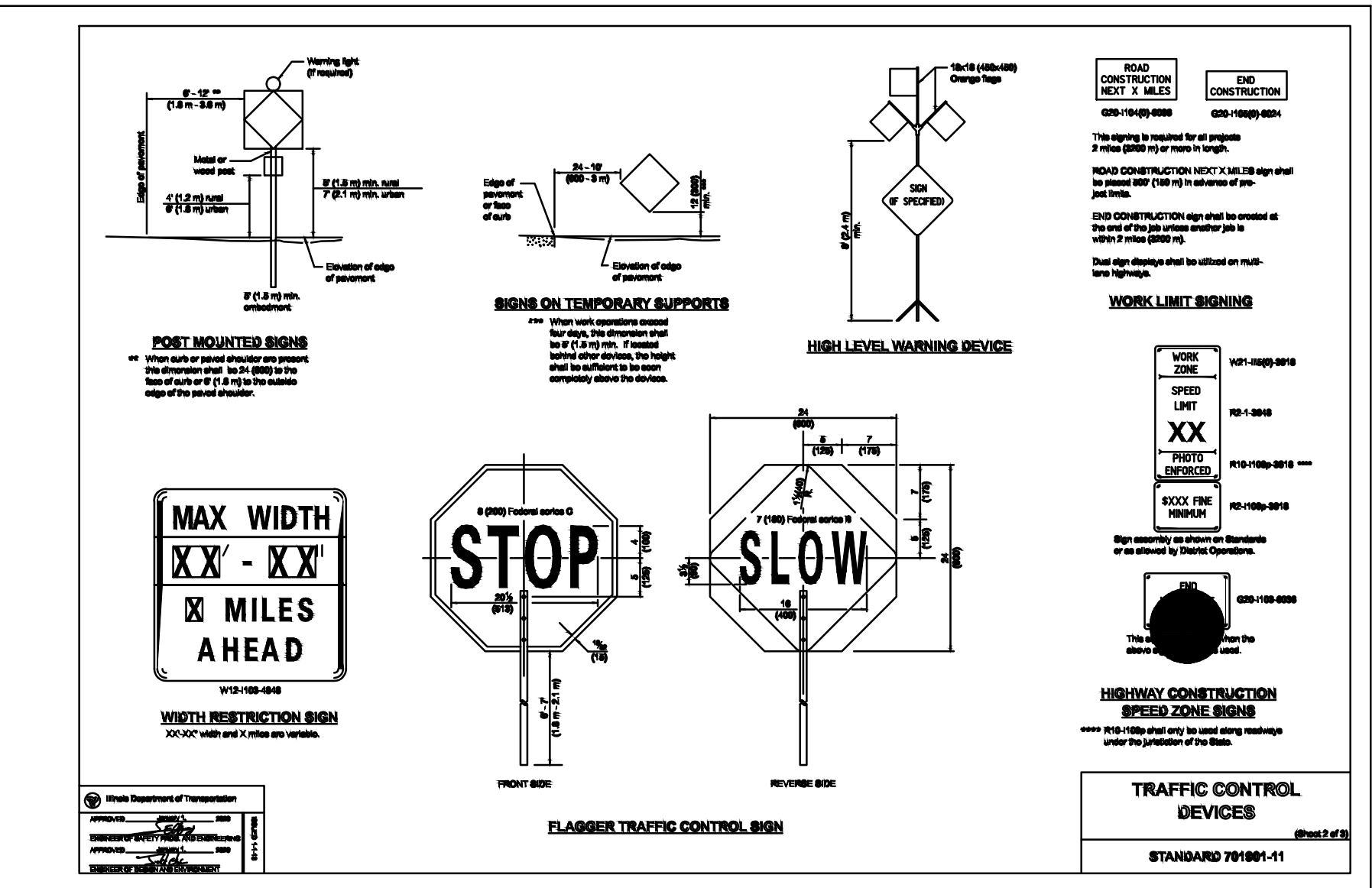
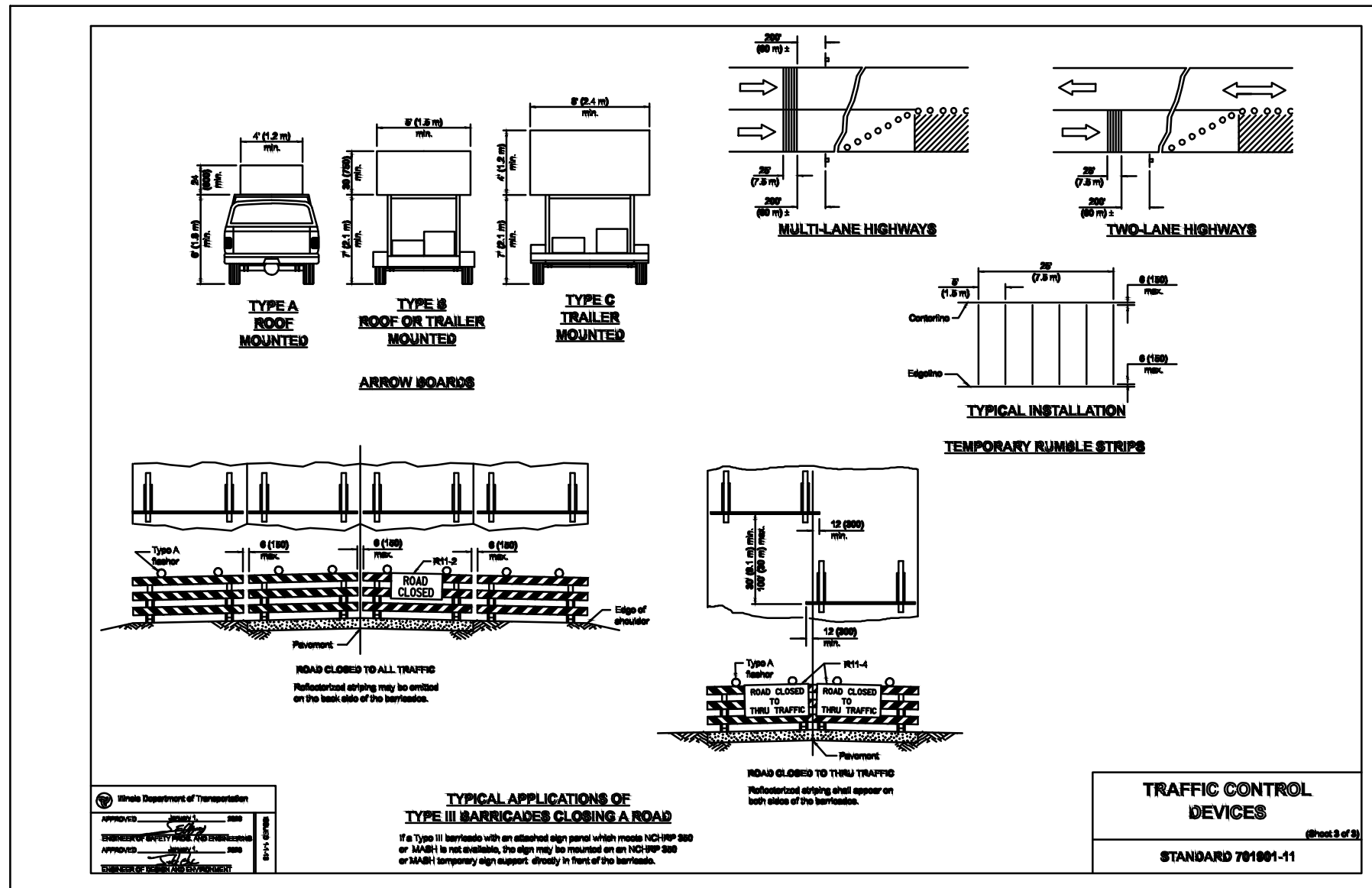
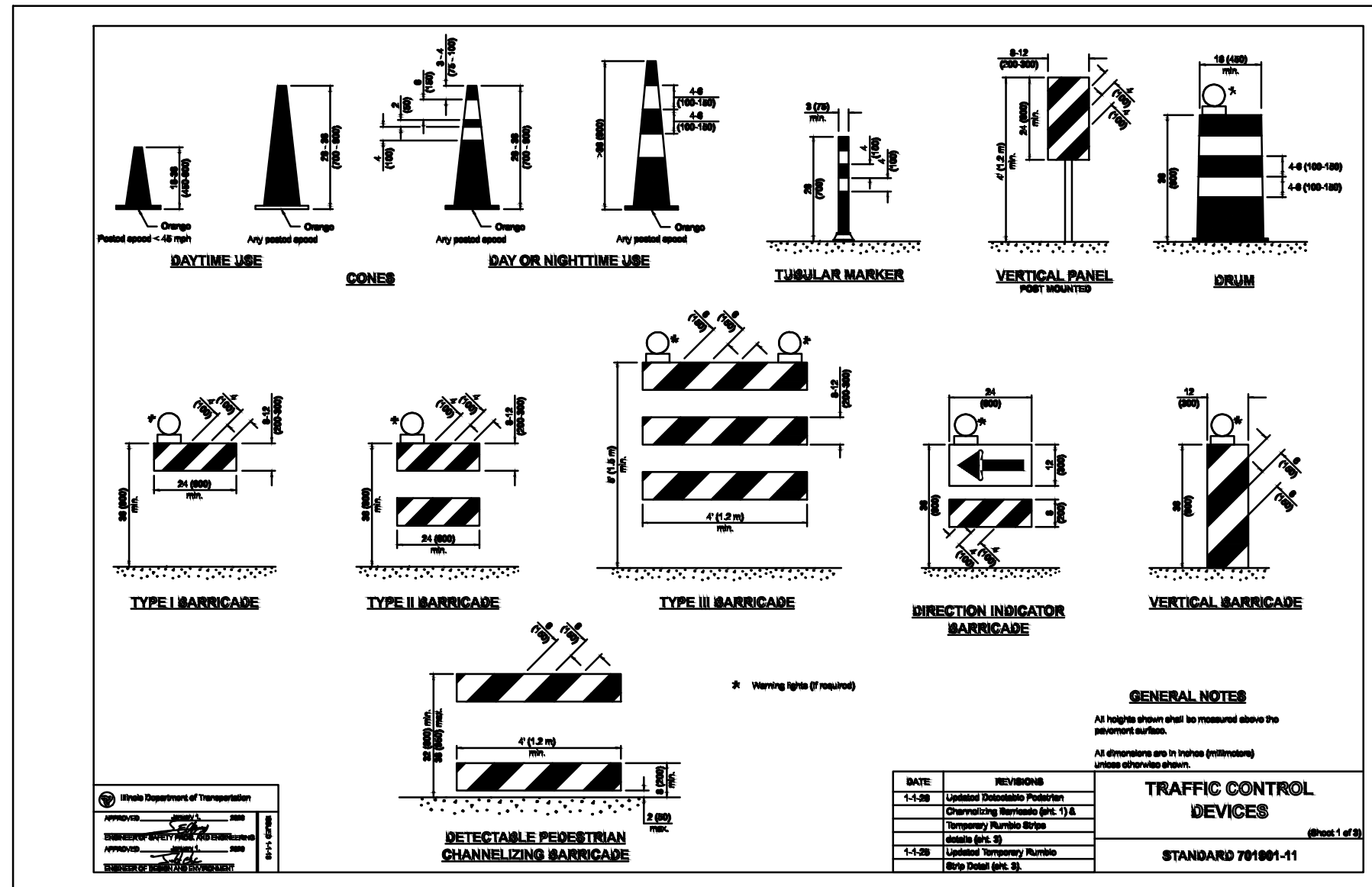
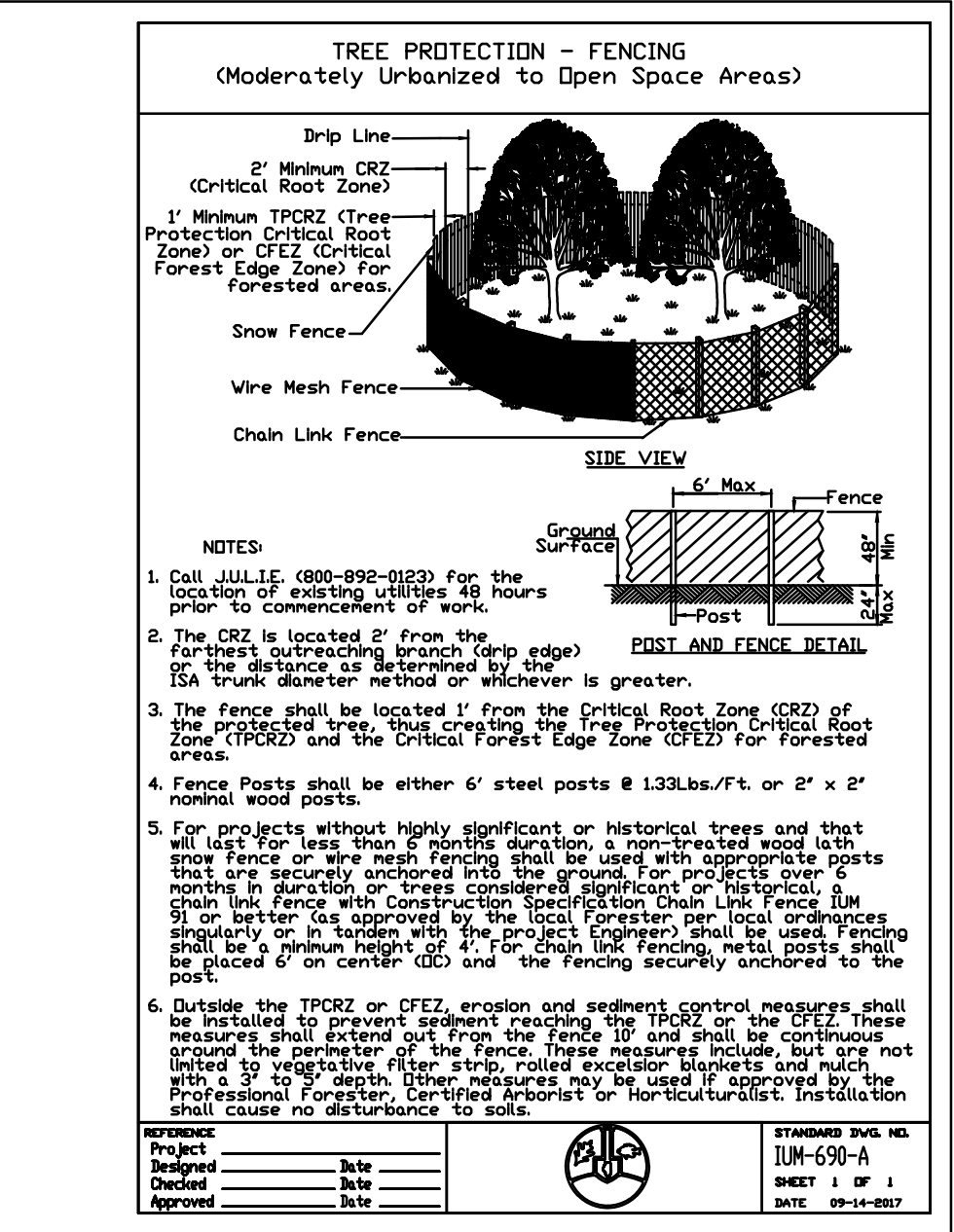
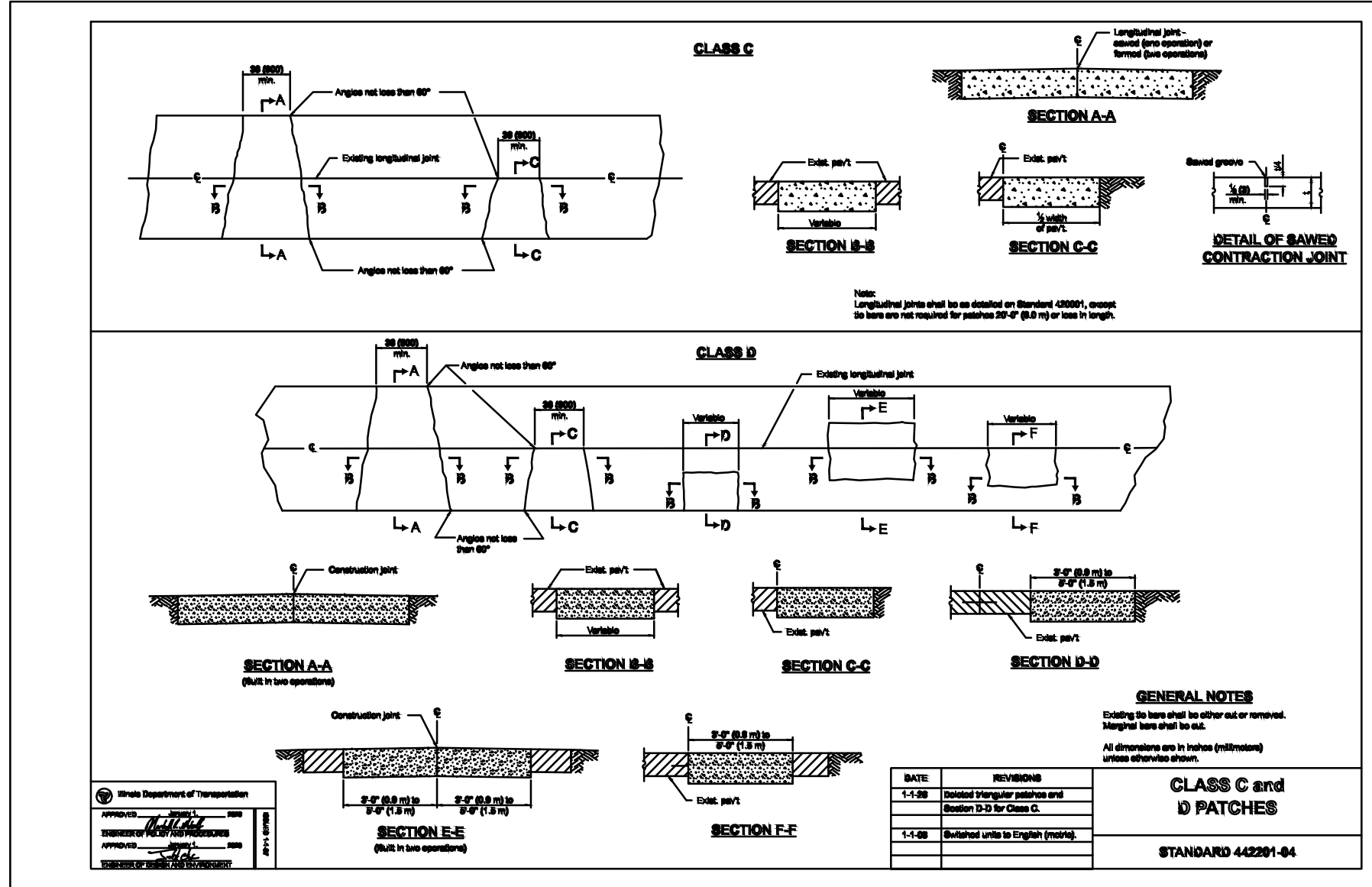
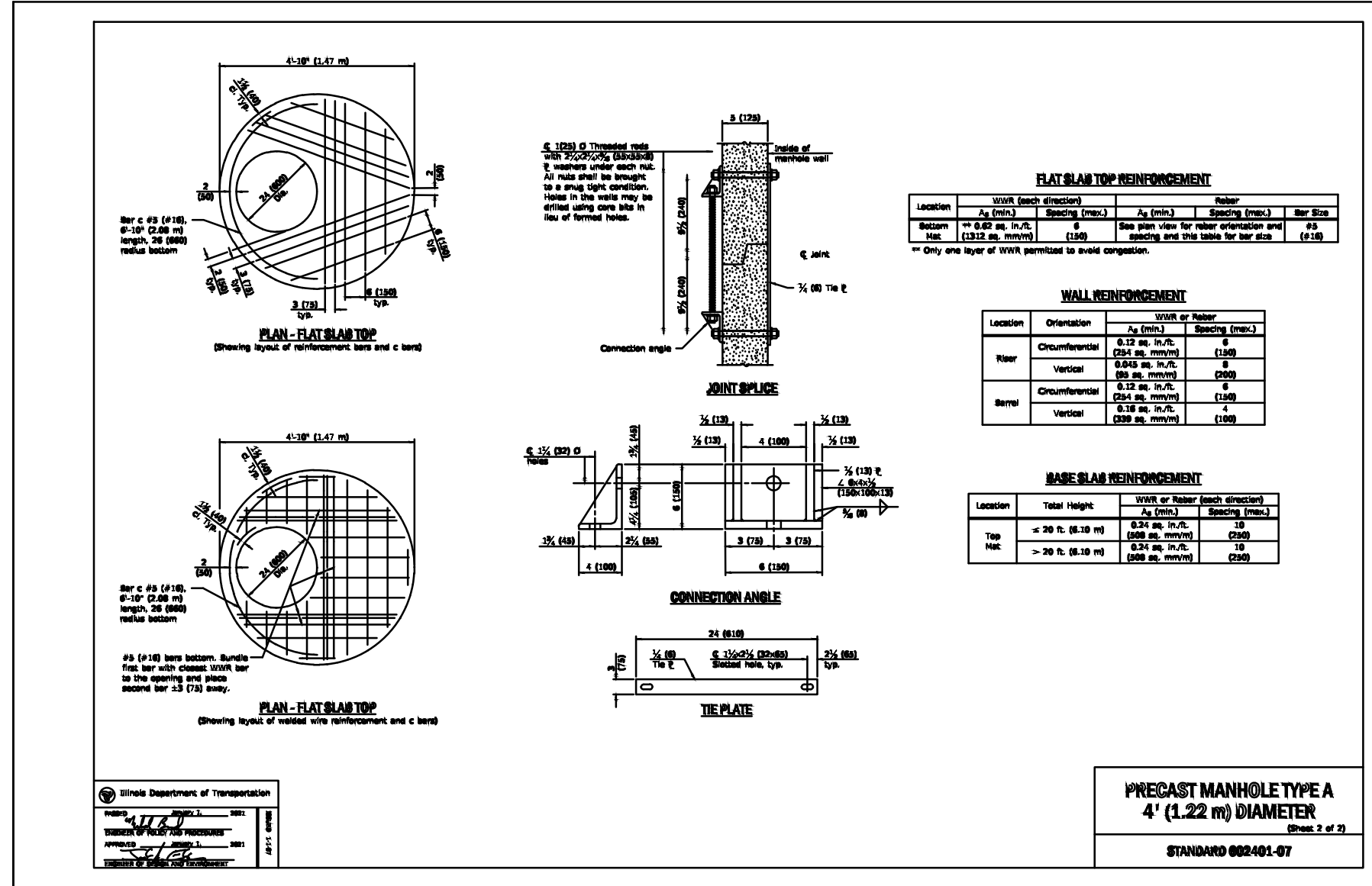
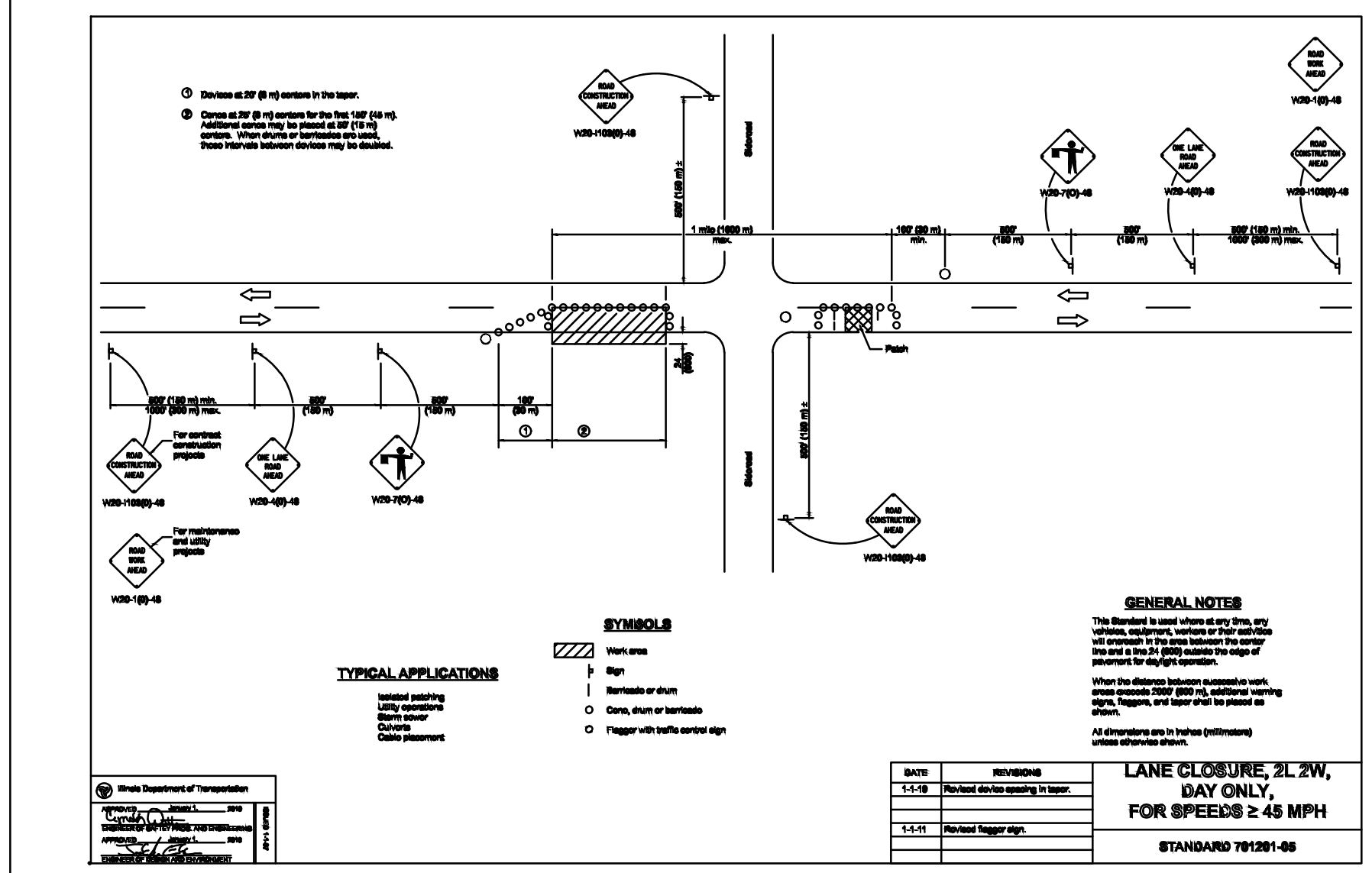
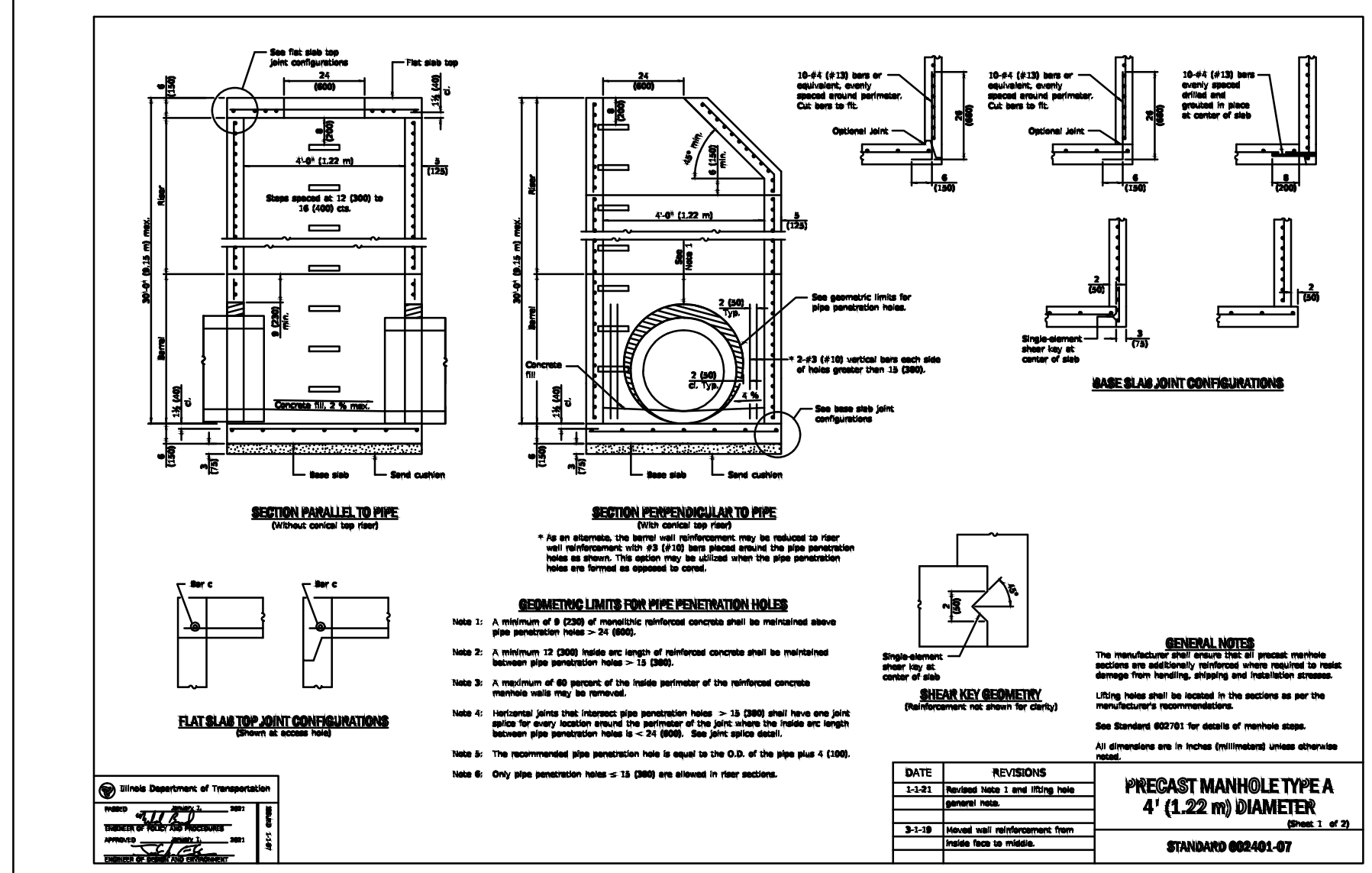
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

GENERAL NOTES
AND DETAILS

BIDDING PLANS

CURRENT AS OF: 02/06/2026	
SCALE: AS NOTED	SHEET 3
FILE NO.: 9936.02	OF 55

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DRAWN BY: CLD	LEVEL: 1	BY: CLD	DATE: 1/28/26	REVISIONS: REVISED FORCE MAIN AT RAIL ROAD CROSSING
CHECKED BY: TRH				
DATE: 06/2025				

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 ILLINOIS

VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026

DETAILS

BIDDING PLANS

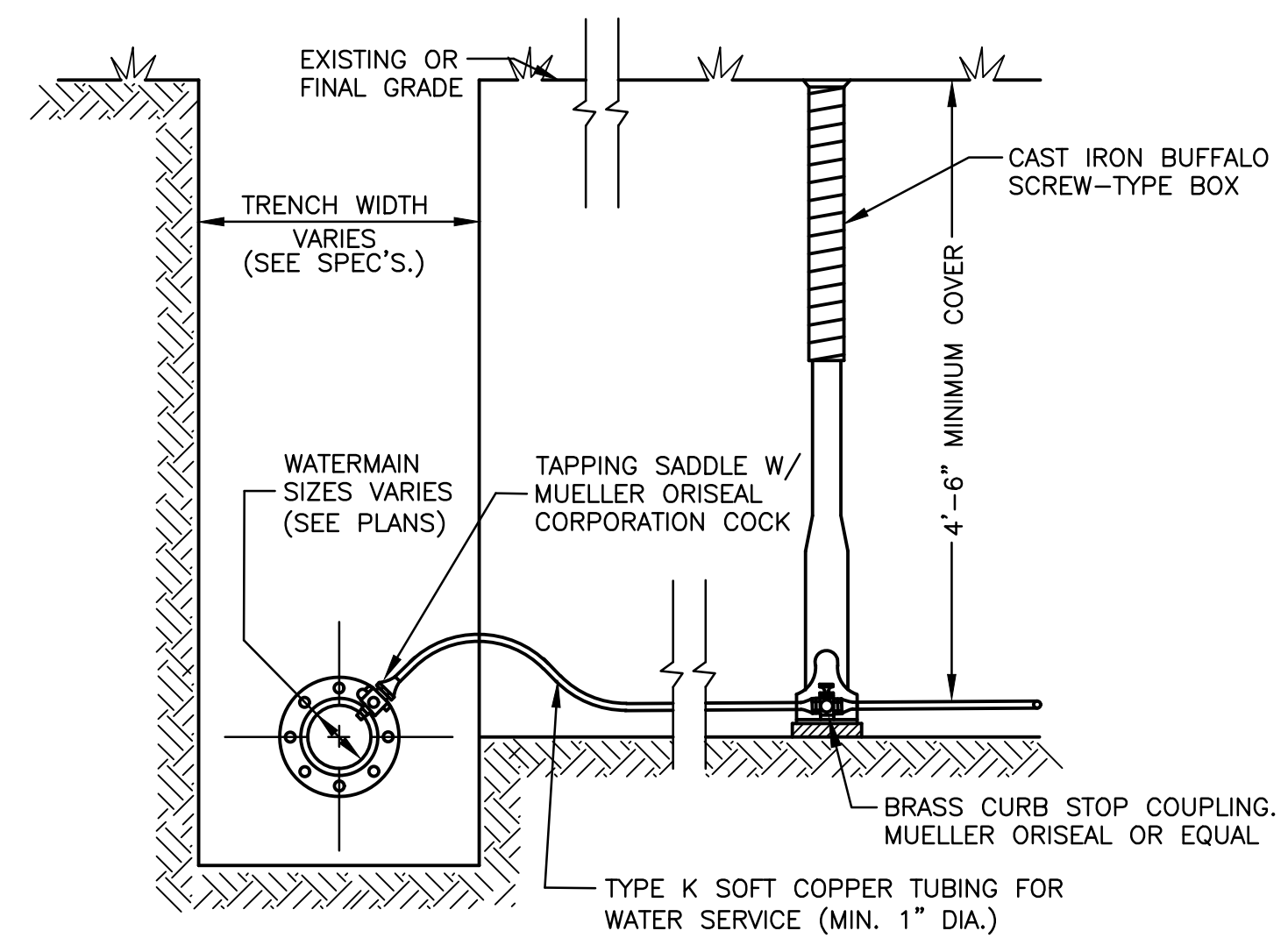
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FILE NO.: 9936.02 Y- OF 55

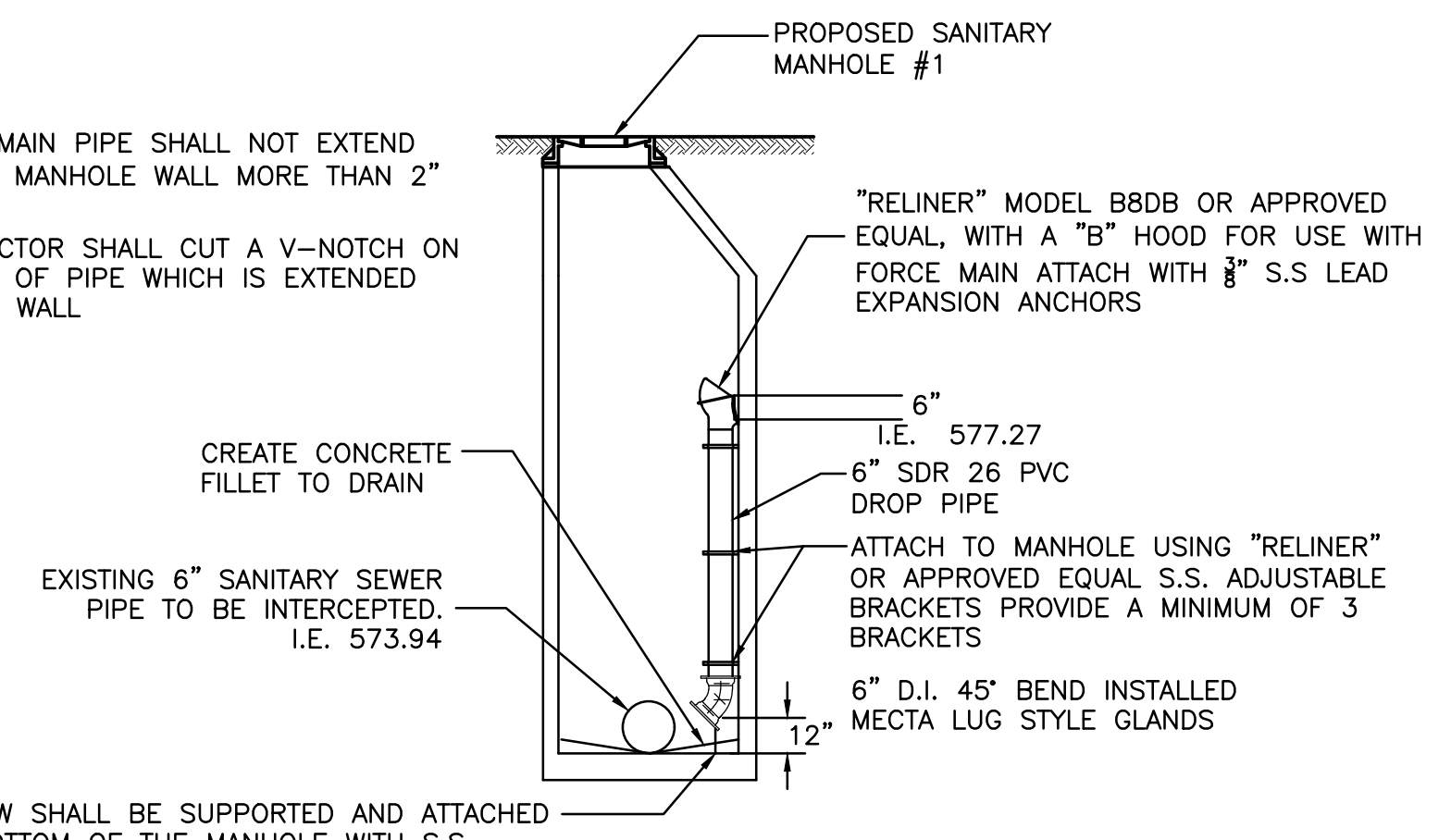
SHEET 4

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 by: Jonathan Covert



WATER SERVICE TAP
N.T.S.

FORCE MAIN PIPE SHALL NOT EXTEND BEYOND MANHOLE WALL MORE THAN 2"
 CONTRACTOR SHALL CUT A V-NOTCH ON BOTTOM OF PIPE WHICH IS EXTENDED BEYOND WALL



SANITARY MANHOLE INTERNAL DROP CONNECTION
NOT TO SCALE

THIS ELBOW SHALL BE SUPPORTED AND ATTACHED TO THE BOTTOM OF THE MANHOLE WITH S.S. SUPPORT ANCHOR BOLTED TO THE MANHOLE

SEE PLANS FOR SURFACE RESTORATION

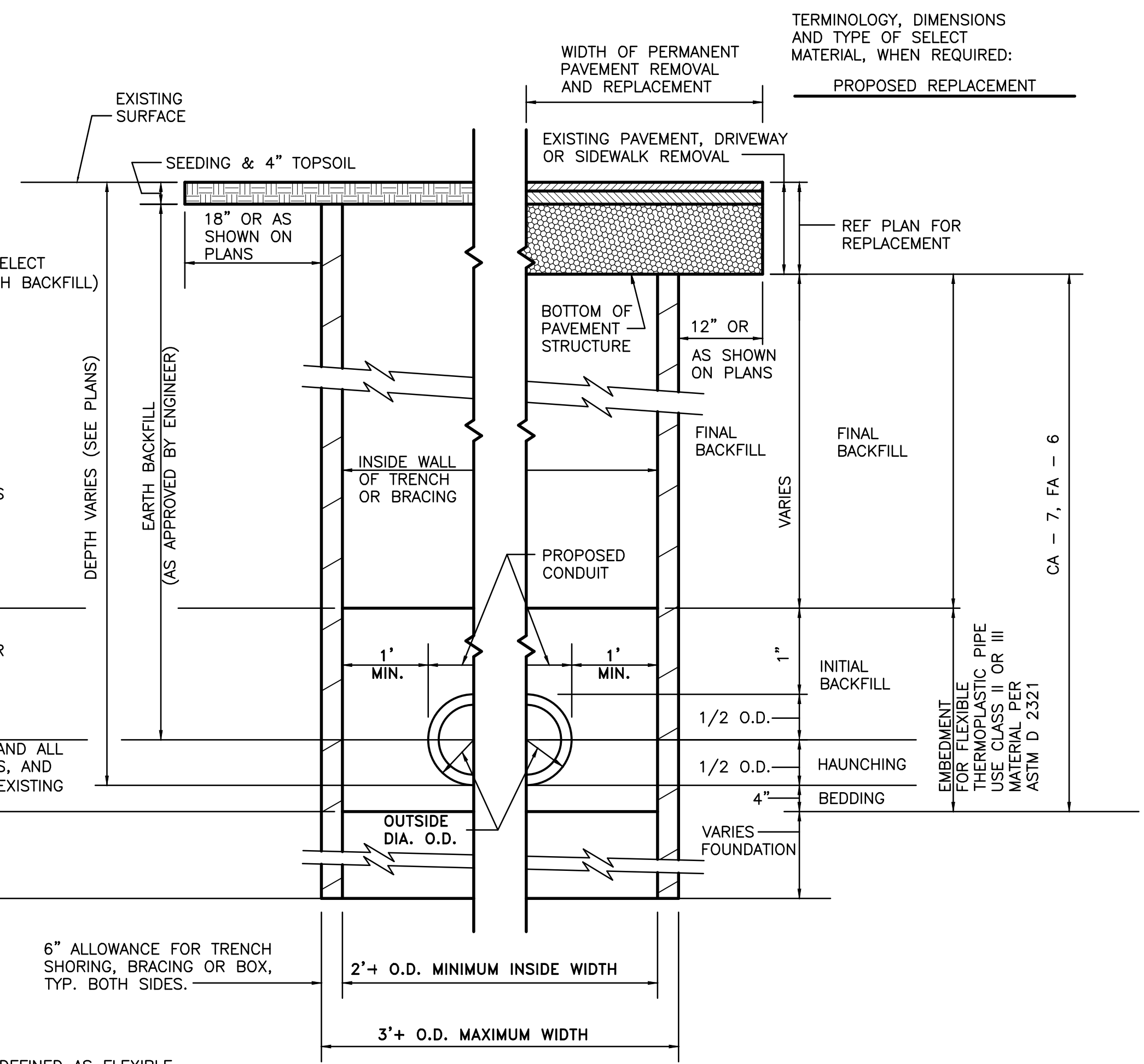
IDENTIFICATION OF WHERE SELECT GRANULAR MATERIAL (TRENCH BACKFILL) IS REQUIRED:

ALL CONDUITS LOCATED UNDER OR WITHIN 2' OF EXISTING OR FUTURE PAVED AREAS.

PAVED AREAS INCLUDE STREETS, CURBS, GUTTERS, SHOULDERS, AND SIDEWALKS

ALL NON RIGID CONDUITS AND RIGID CONDUITS UNDER OR WITHIN 2' OF EXISTING OR PAVED AREAS

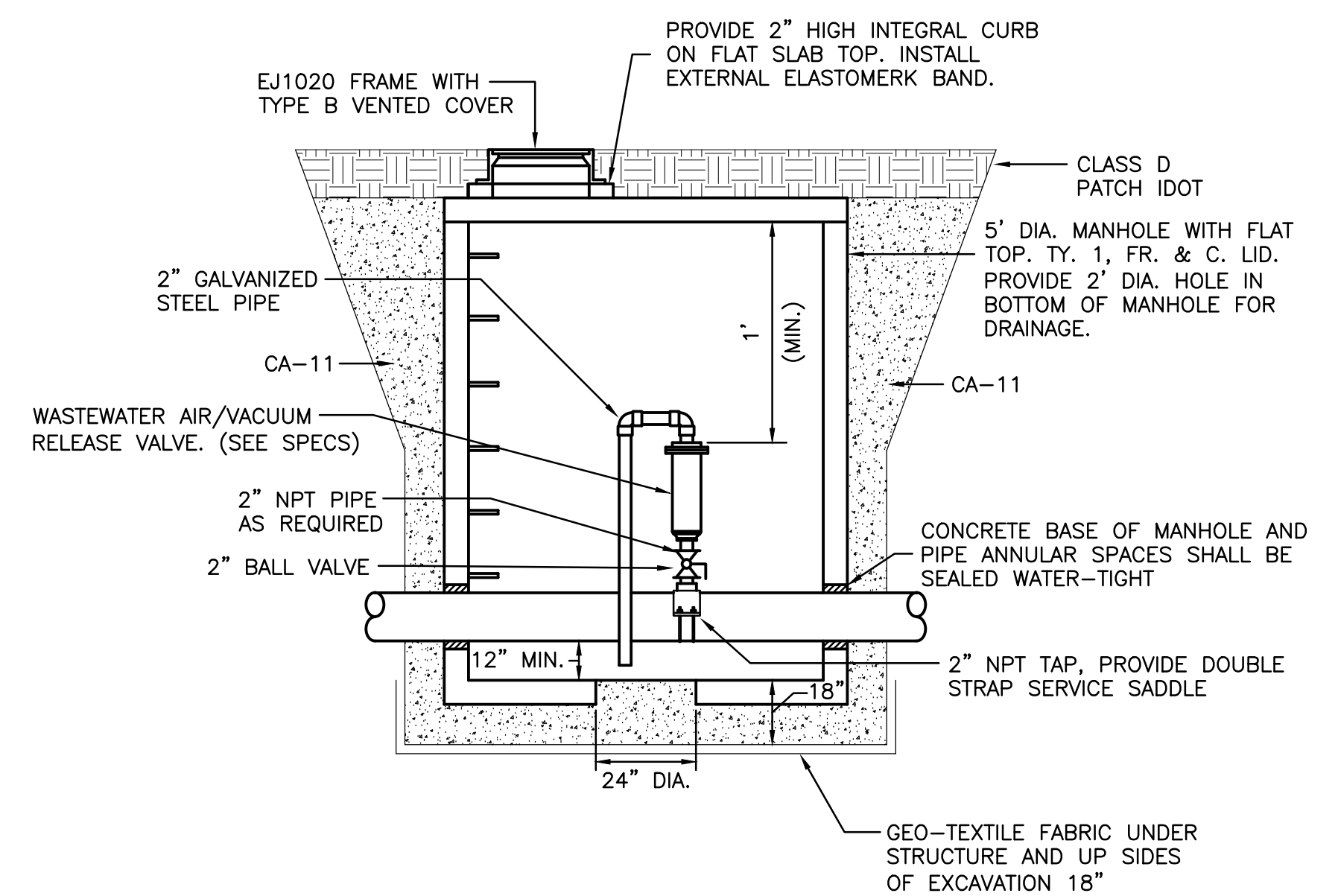
ALL NON RIGID CONDUITS, AND ALL SEWERS, RIGID WATER MAINS, AND FORCEMAINS WITHIN 2' OF EXISTING OR FUTURE PAVED AREAS



TYPICAL TRENCH DETAIL
N.T.S.

NON RIGID CONDUITS ARE DEFINED AS FLEXIBLE THERMOPLASTIC PIPE AND/OR CORRUGATED METAL PIPE.

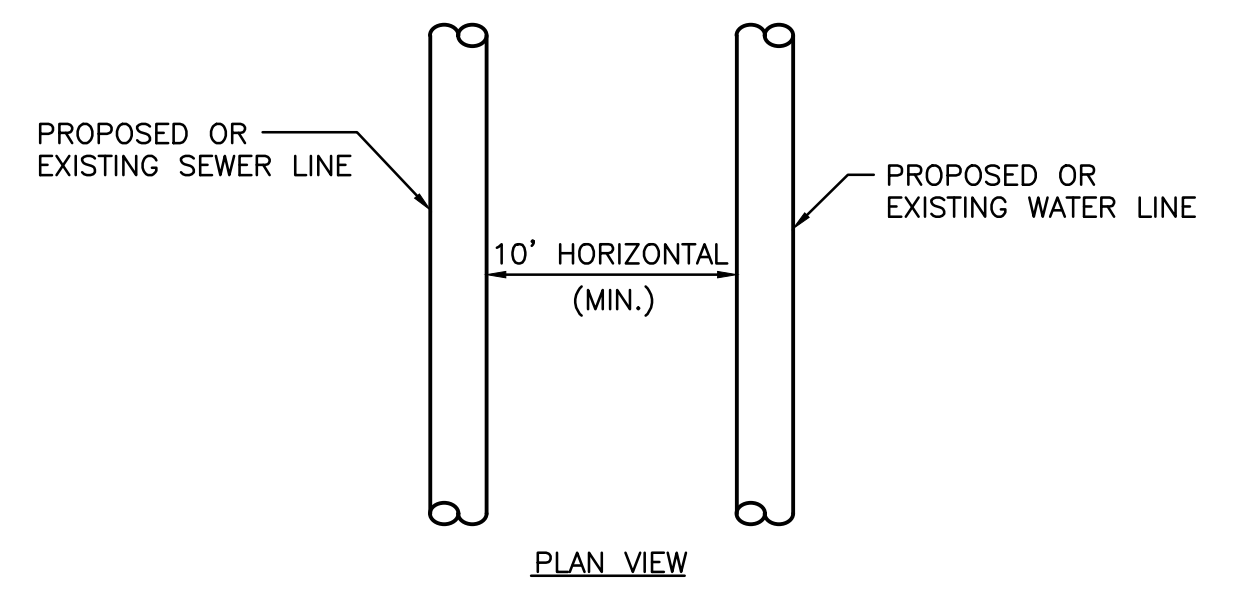
NOTE: TRENCH BOX SHALL NOT EXTEND BELOW TOP OF PIPE, HOWEVER IT SHALL NOT EXCEED 2 FEET FROM THE BOTTOM OF THE TRENCH.



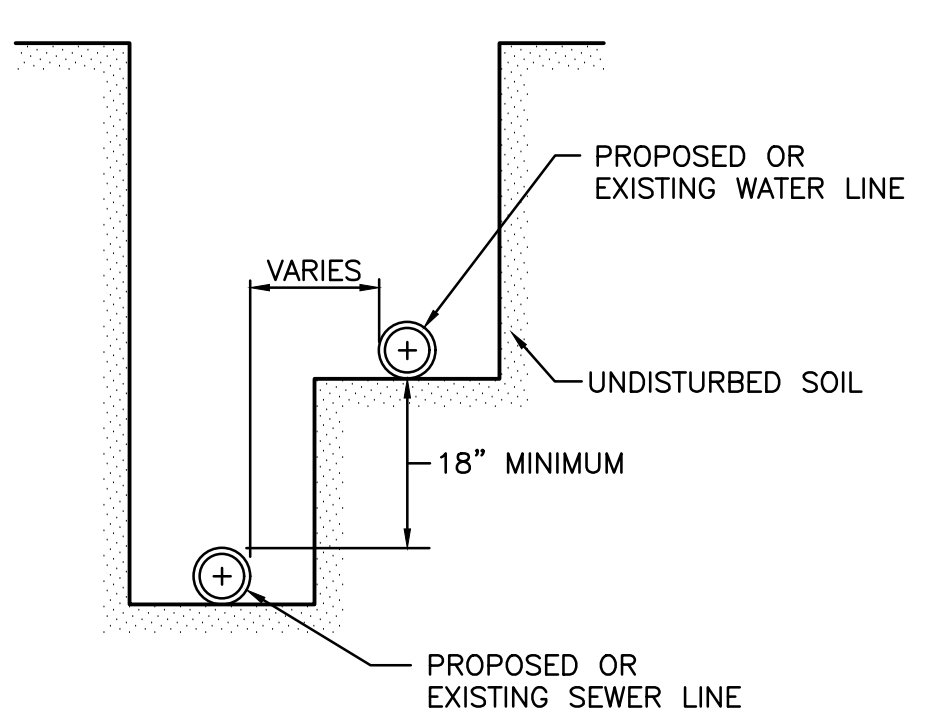
AIR RELEASE MANHOLE DETAIL
NOT TO SCALE

- NOTES**
- ATTACH BRACING FROM RELEASE VALVE AND SIDE OF MANHOLE, PROVIDE A MINIMUM OF 3 BRACES. BRACES SHALL BE RIGID AND BE CONSTRUCTED OF STAINLESS STEEL.
 - ATTACH BLOW-OFF PIPE TO FORCE MAIN IN ORDER TO PREVENT ADDITIONAL STRESS TO VALVE.
 - PROVIDE CHAIR OR OTHER SUPPORT MEANS BELOW THE AIR RELEASE VALVE SO FORCE MAIN IS NOT SUPPORTING WEIGHT OF VALVE (66 LBS±). ALL MATERIAL AND WORK INDICATED IN THIS DETAIL SHALL BE INCLUDED IN THE PRICE FOR THIS AIR RELEASE MANHOLE ALTERNATE.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED. SEE SECTION 41-2.01B (1)

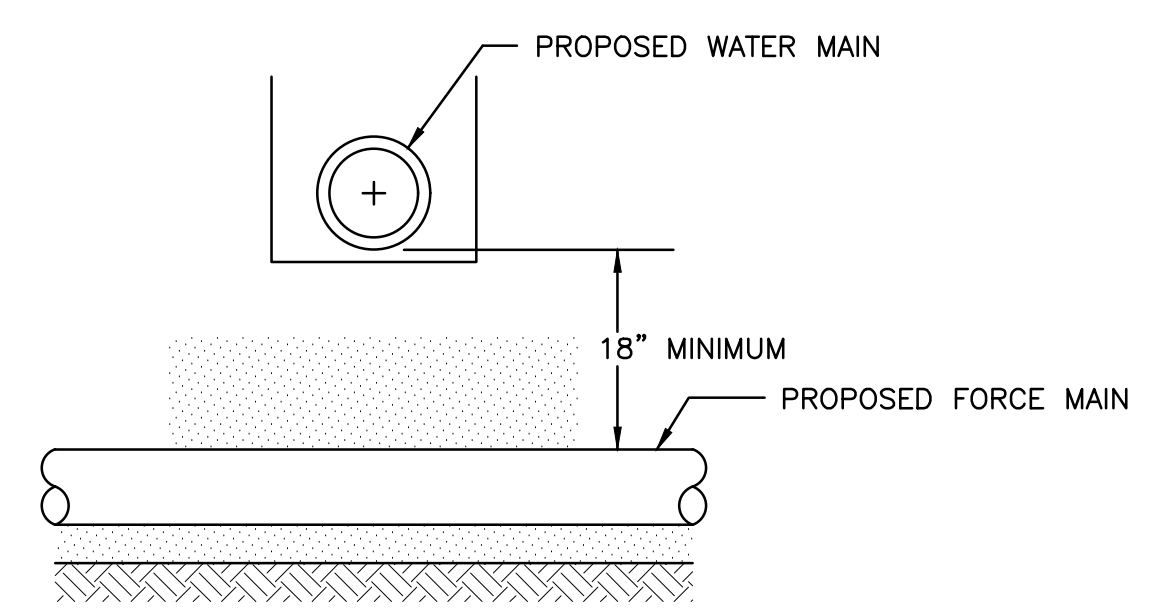


WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY. SEE SECTION 41-2.01B (2)



WATER AND SEWER SEPARATION REQUIREMENTS
NOT TO SCALE

- GUIDELINES**
- PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.



WATER AND SEWER VERTICAL SEPARATION REQUIREMENTS
PROPOSED FORCE MAIN LINE BELOW WATER MAIN WITH 18" MINIMUM VERTICAL SEPARATION

DRAWN BY: CLD		REVISIONS	
LEVEL	BY	DATE	DESCRIPTION
1	CLD	1/28/26	REVISED FORCE MAIN AT RAIL ROAD CROSSING
CHECKED BY: TRH			
DATE: 06/2025			

PERU
 OTTAWA MORRIS
 ILLINOIS

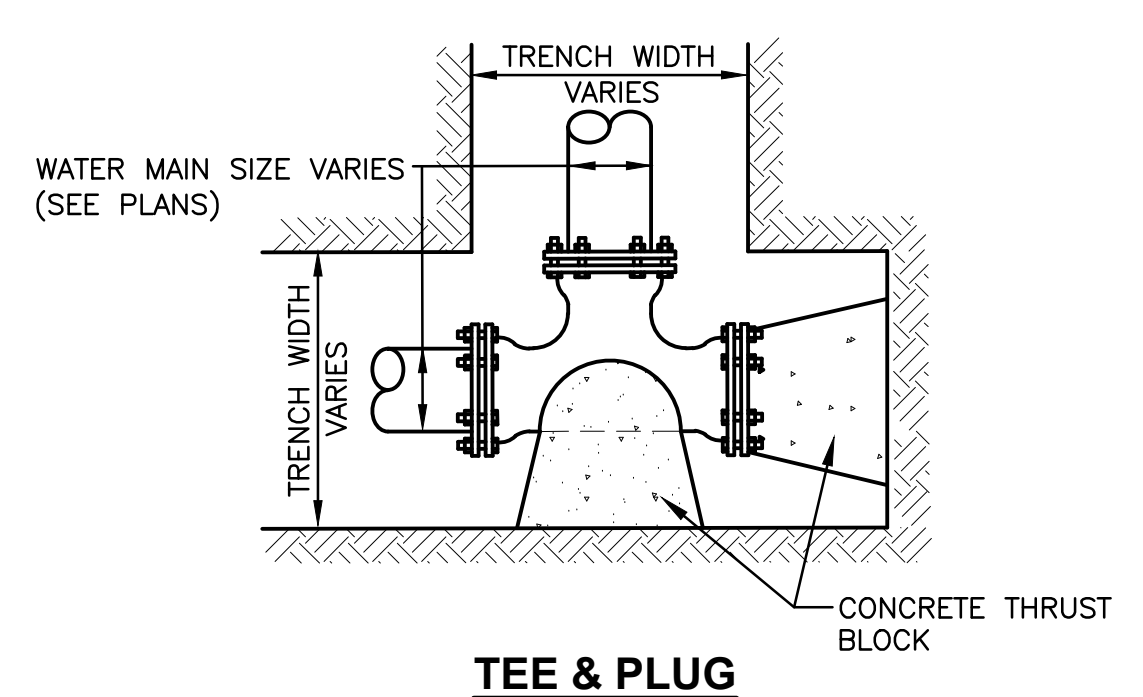
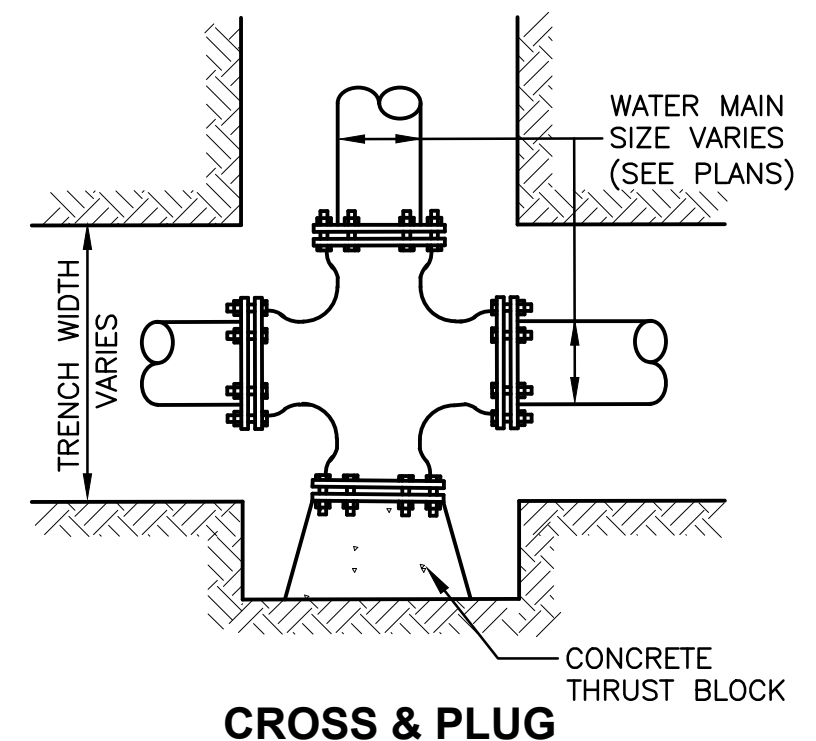
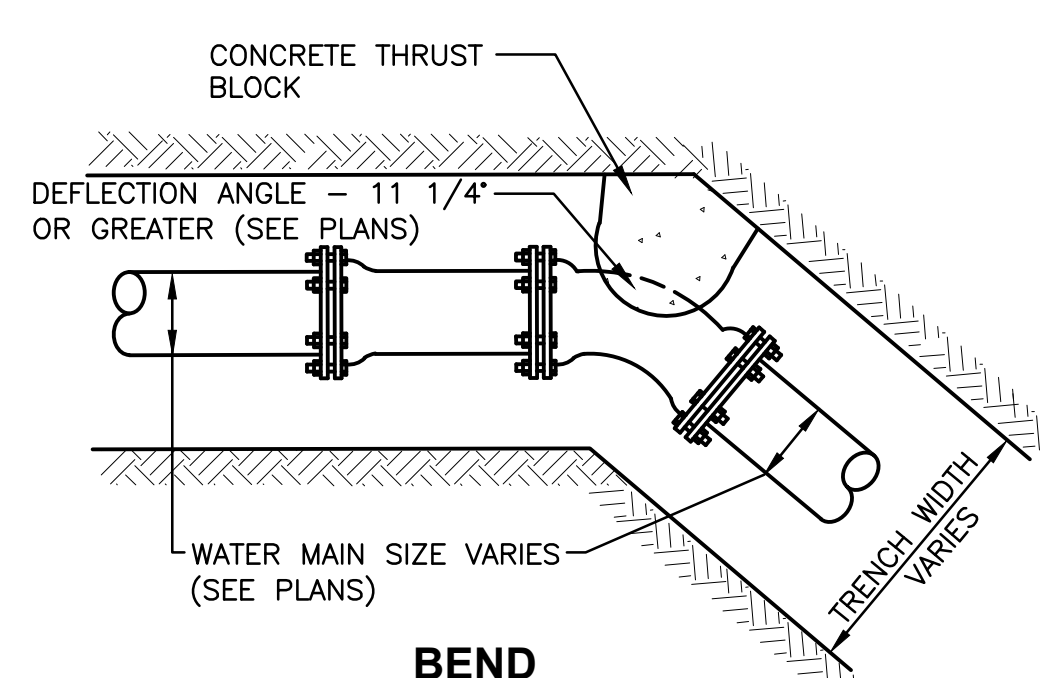
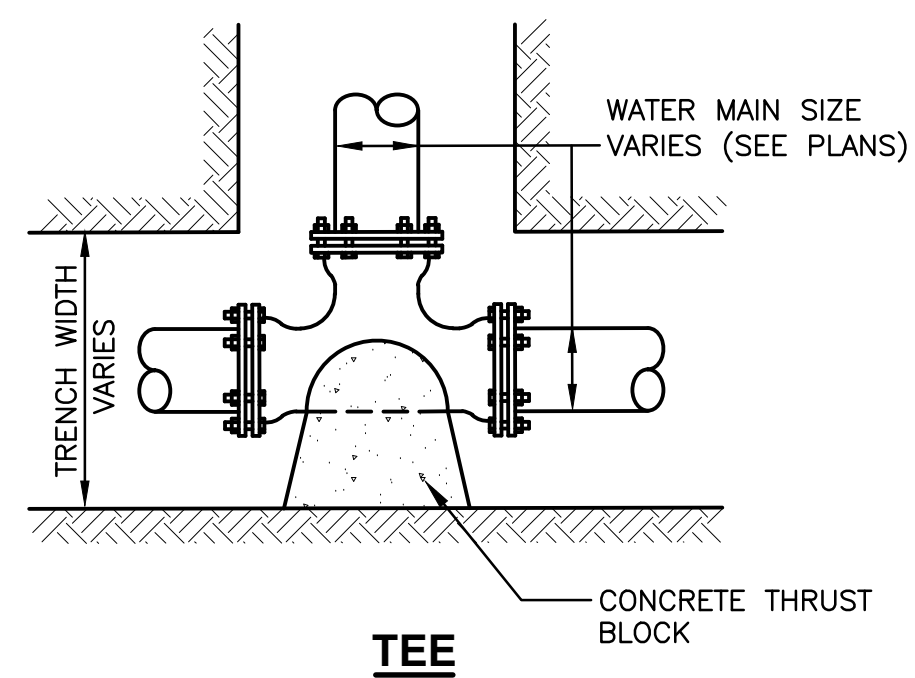
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

SEWER DETAILS
(1 OF 3)

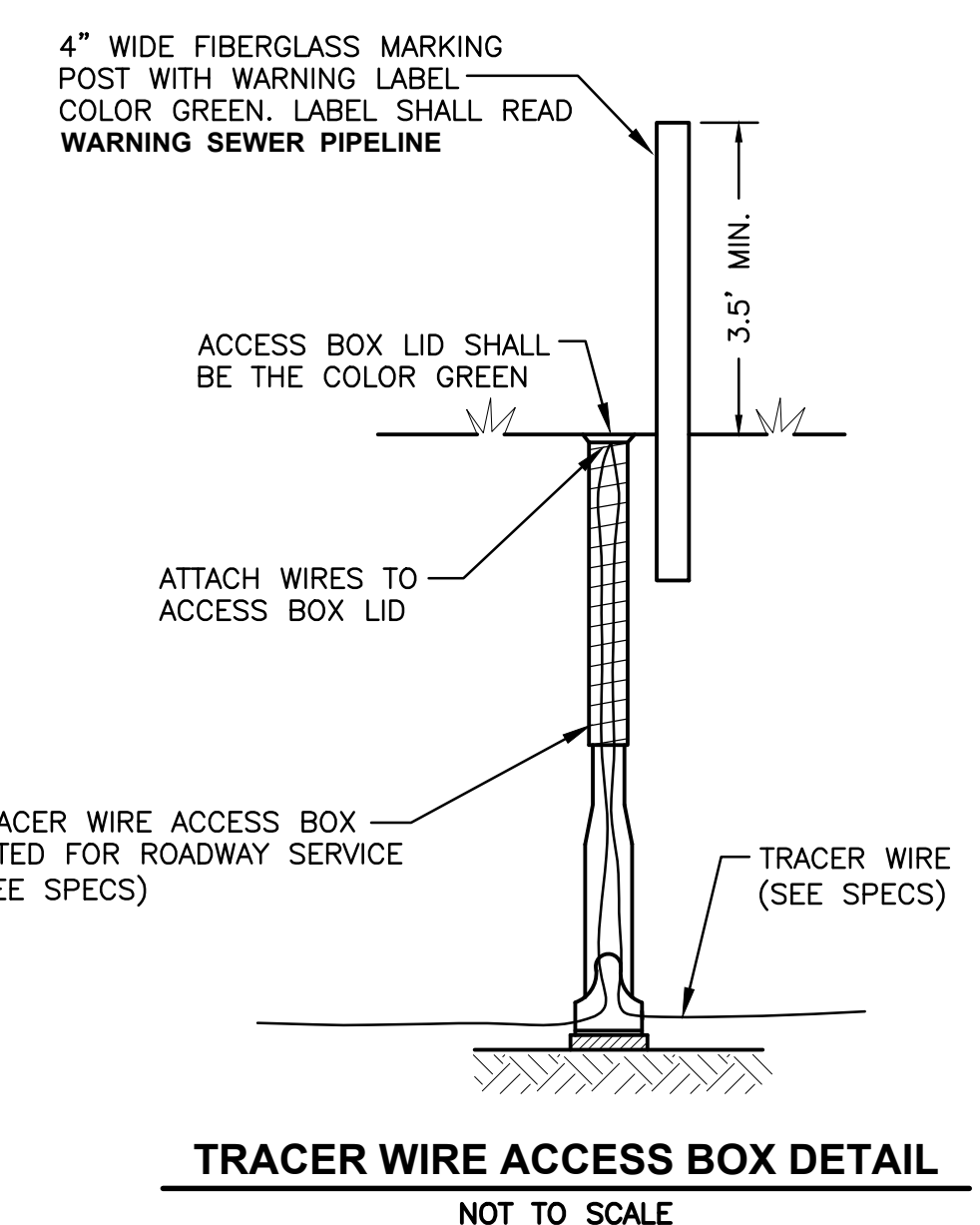
BIDDING
PLANS

CURRENT AS OF: 02/06/2026	
SCALE: AS NOTED	SHEET 5
FILE NO.: 9936.02 Y-	OF 55

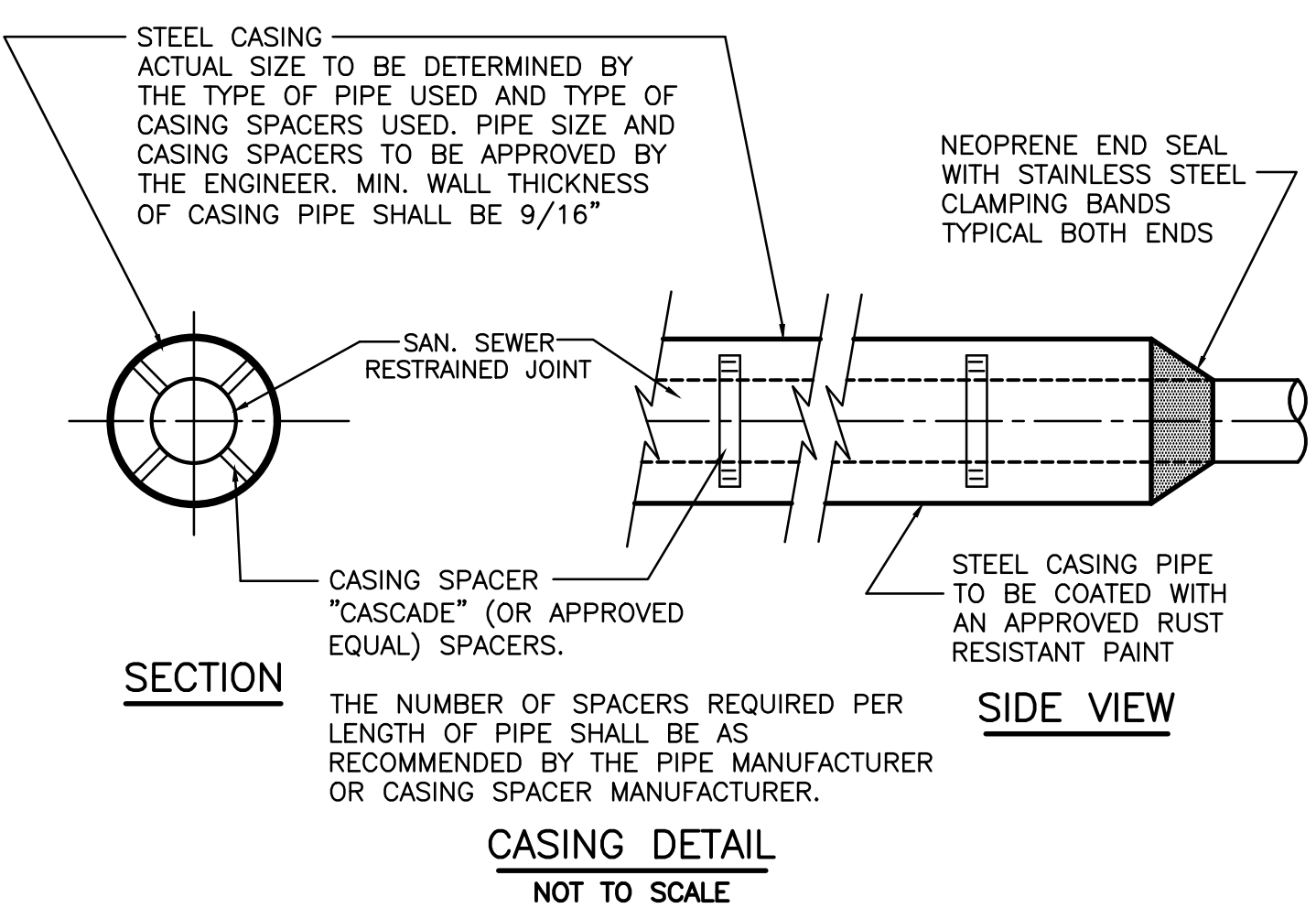
CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jg\936-02_Mazon-New Water Treatment Plant\CAD\006 - SEWER DETAILS (2 OF 3).dwg
 Last Modified: Friday, February 6, 2026 9:55:55 AM
 Plotted On: Friday, February 6, 2026 3:12:13 PM
 by Jonathan Covert



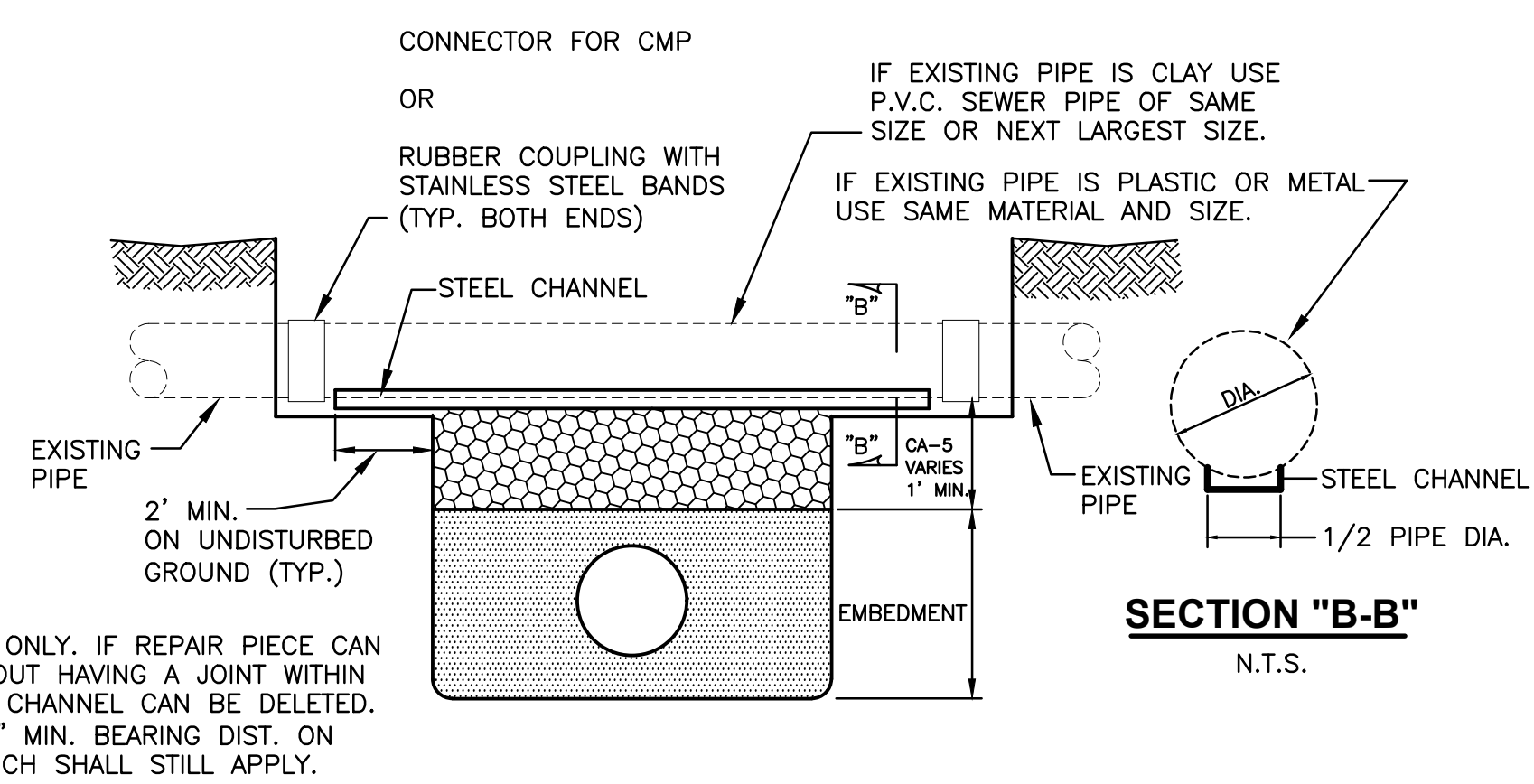
WATERMAIN FITTING BLOCKING DETAILS



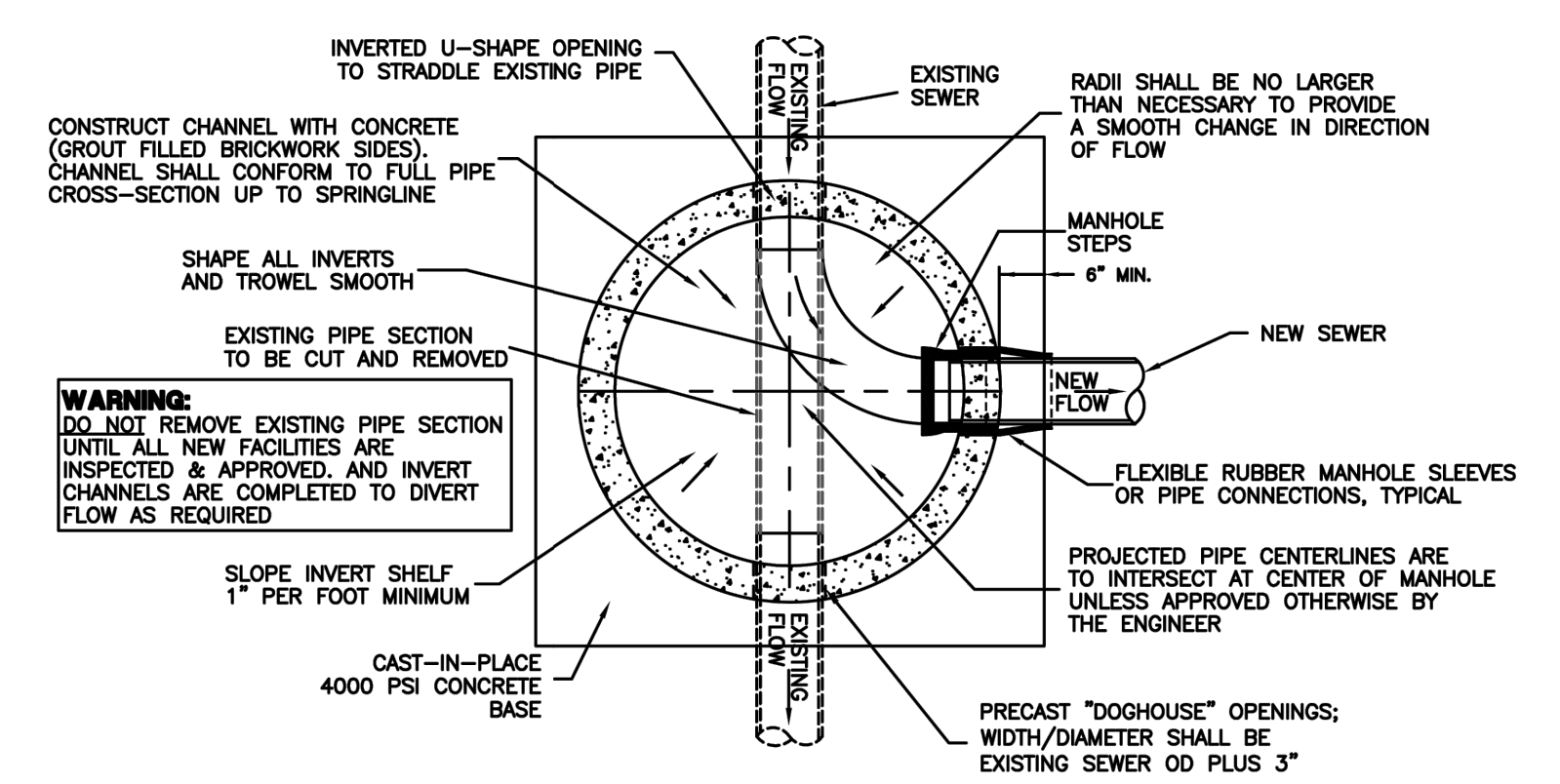
TRACER WIRE ACCESS BOX DETAIL
NOT TO SCALE



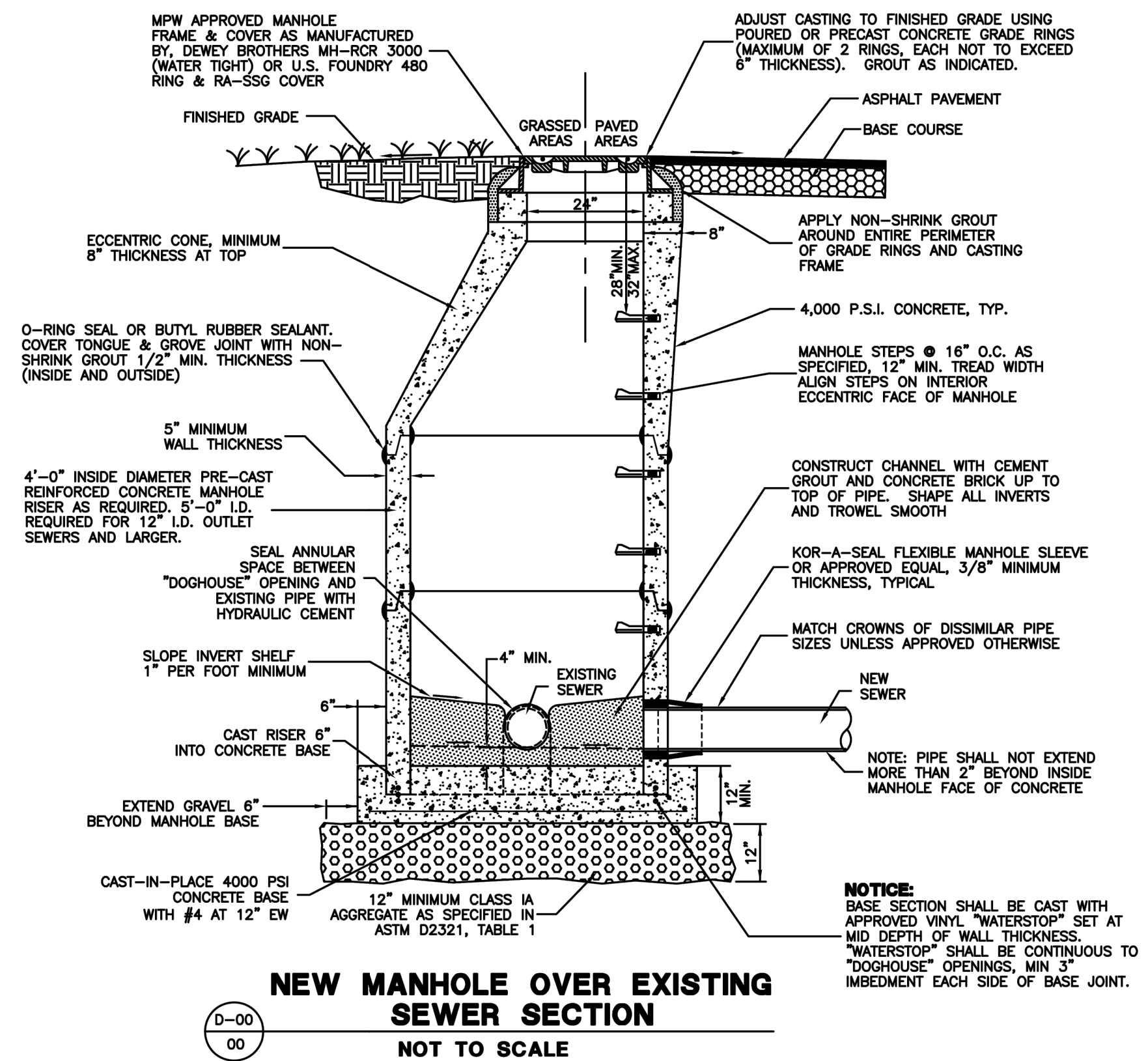
CASING DETAIL
NOT TO SCALE



REPAIR OF DAMAGED NONMETALLIC FIELD TILE
STORM SEWER, SANITARY SEWER, CULVERTS
N.T.S.



PLAN VIEW NEW MANHOLE OVER EXISTING SEWER SECTION
NOT TO SCALE



D-00
00

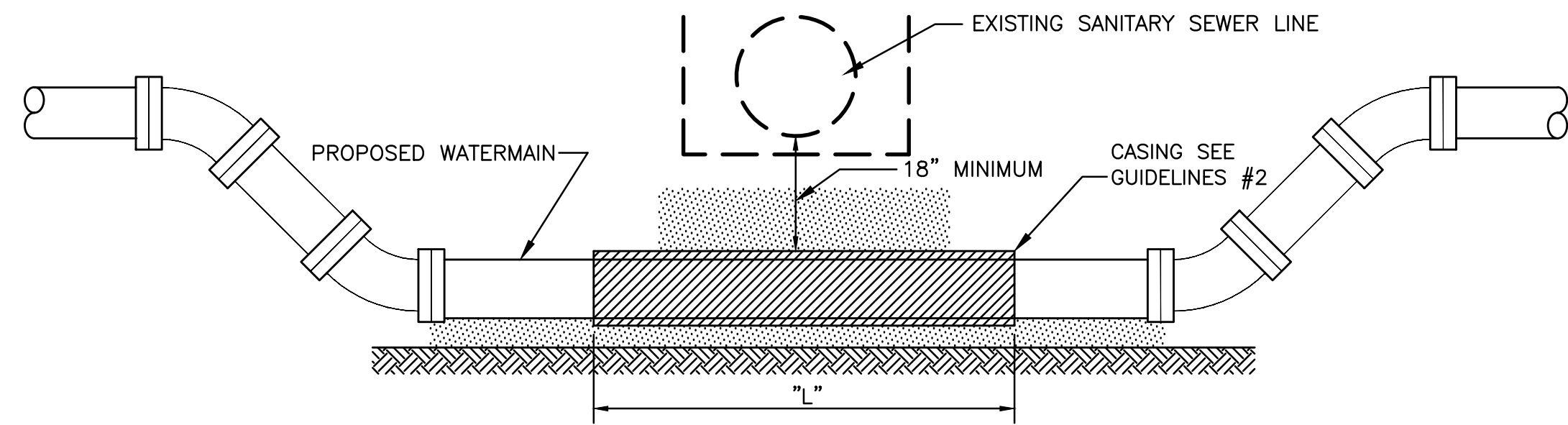
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LEVEL	BY	DATE	DESCRIPTION
1	CLD	1/28/26	REVISED FORCE MAIN AT RAIL ROAD CROSSING
CHECKED BY: TRH			
DATE: 06/2025			


 PERU
 OTTAWA MORRIS
 ILLINOIS

VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026

SEWER DETAILS
 (2 OF 3)

BIDDING PLANS
 CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED SHEET 6
 FILE NO.: 9936.02 Y- OF 55



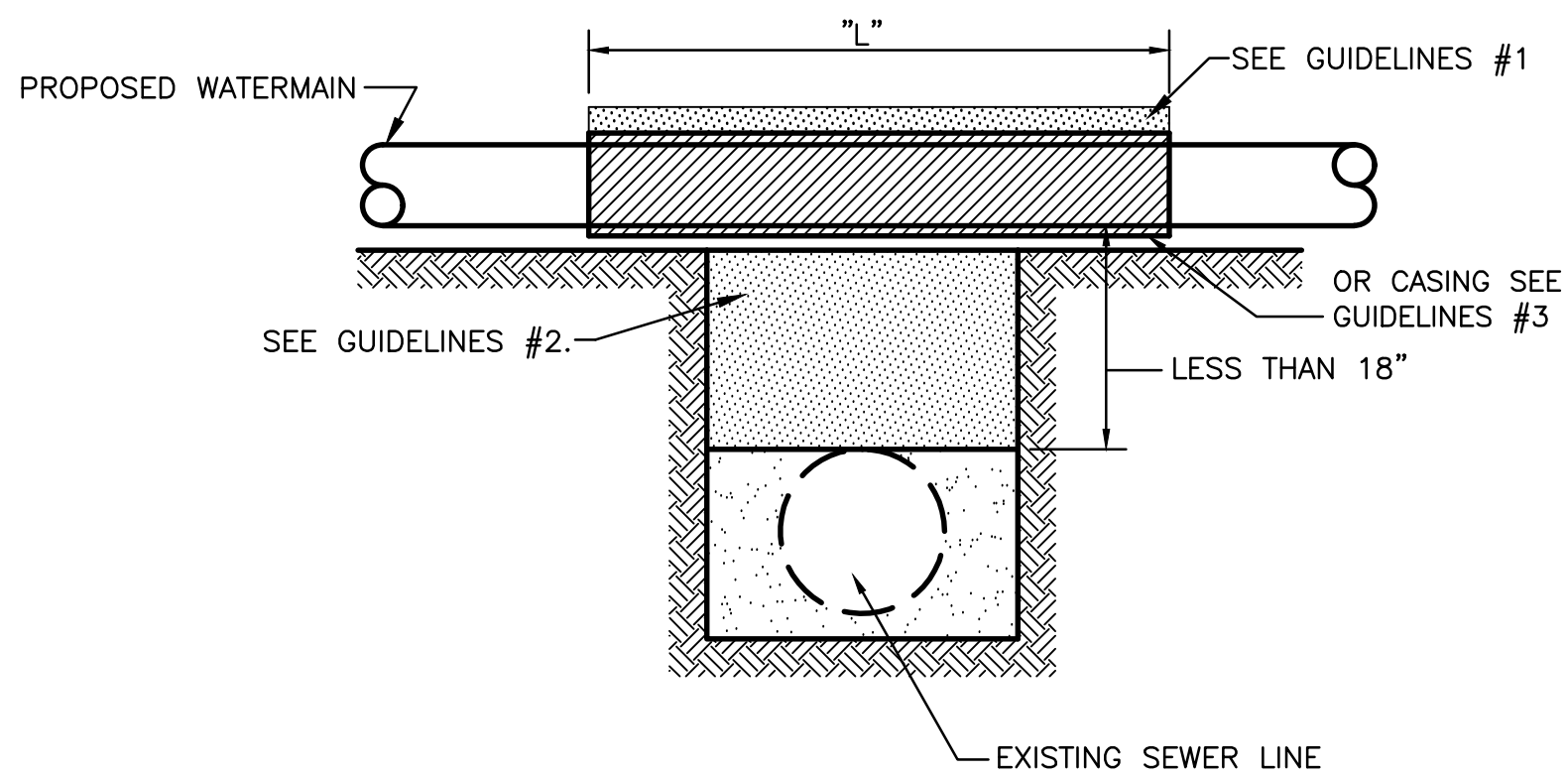
WATER AND SEWER SEPARATION REQUIREMENTS FOR PROPOSED WATERMAIN BELOW EXISTING SANITARY SEWER OR COMBINATION SEWER WITH 18" MINIMUM VERTICAL SEPARATION

GUIDELINES

1. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
2. CONSTRUCT "L" FEET OF STEEL PIPE HAVING A MINIMUM WALL THICKNESS OF 0.375" AND FABRICATED FROM MATERIAL HAVING A MINIMUM YIELD STRENGTH OF 35,000 PSI FOR CASING OF PROPOSED WATERMAIN. PIPE SHALL BE BITUMINOUS COATED IN CONFORMANCE WITH AASHTO M190. SEAL ENDS OF CASING WITH 3,000 PSI NON-SHRINK GROUT.

$L = 20' + \text{PIPE O.D.}$

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B OF THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS.

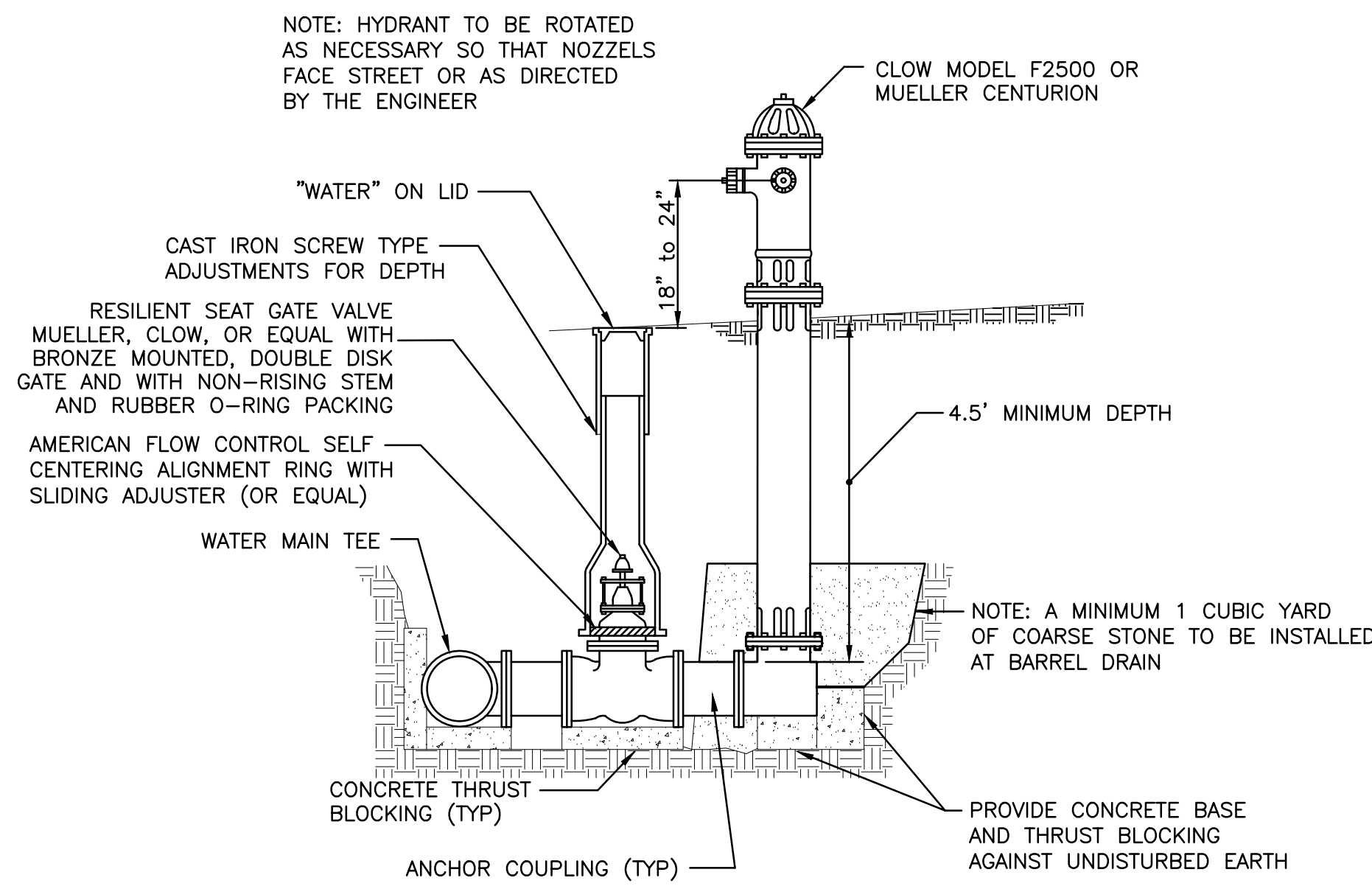


WATER AND SEWER SEPARATION REQUIREMENTS FOR PROPOSED WATERMAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION

GUIDELINES

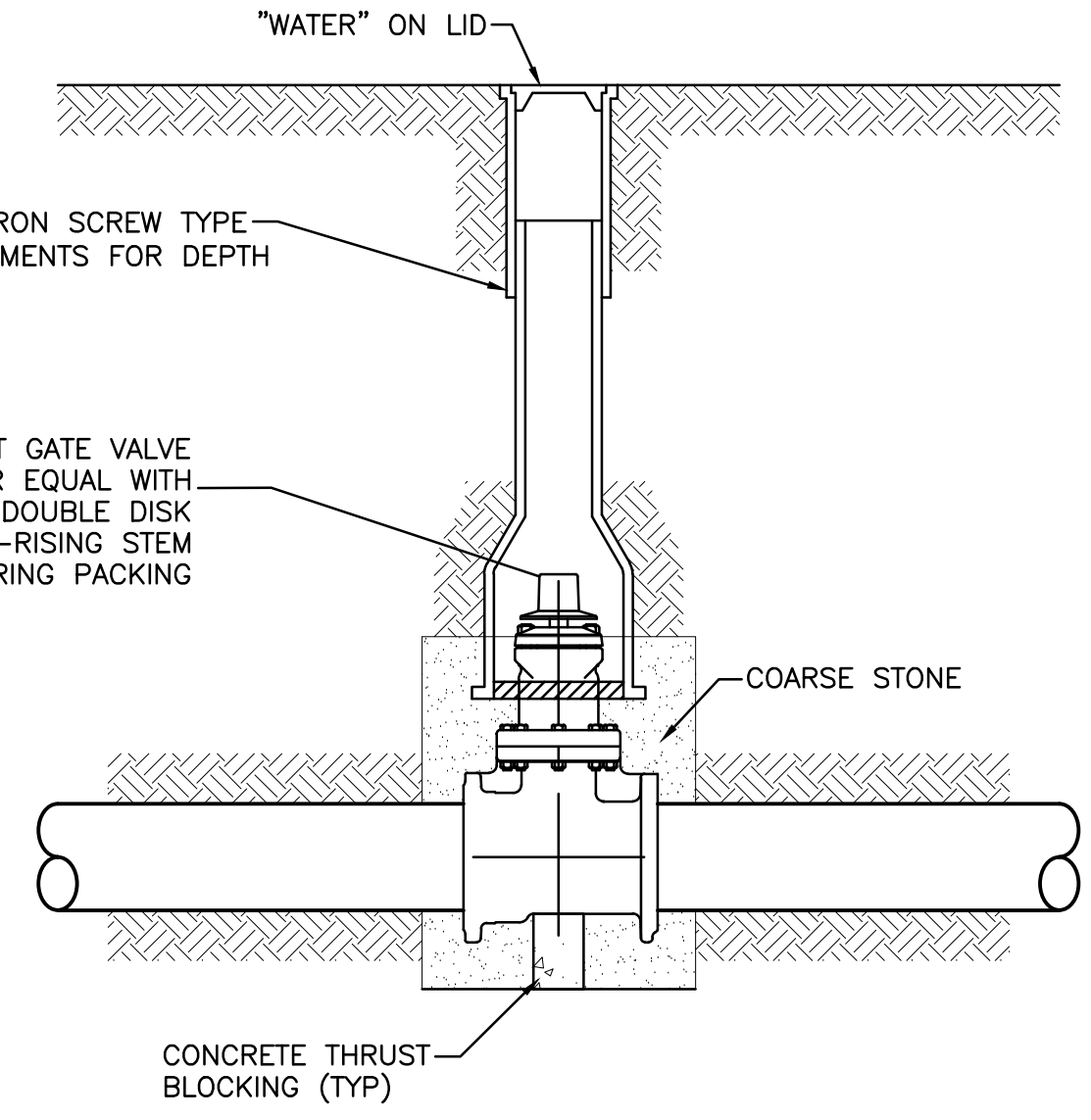
1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATERMAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. CONSTRUCT "L" FEET OF STEEL PIPE HAVING A MINIMUM WALL THICKNESS OF 0.375" AND FABRICATED FROM MATERIAL HAVING A MINIMUM YIELD STRENGTH OF 35,000 PSI FOR CASING OF PROPOSED WATERMAIN. PIPE SHALL BE BITUMINOUS COATED IN CONFORMANCE WITH AASHTO M190. SEAL ENDS OF CASING WITH 3000 PSI NON-SHRINK GROUT.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATERMAIN CASING AND SEWER.

$L = 20' + \text{PIPE O.D.}$



FIRE HDYRANT "COMPLETE" DETAIL

N.T.S.

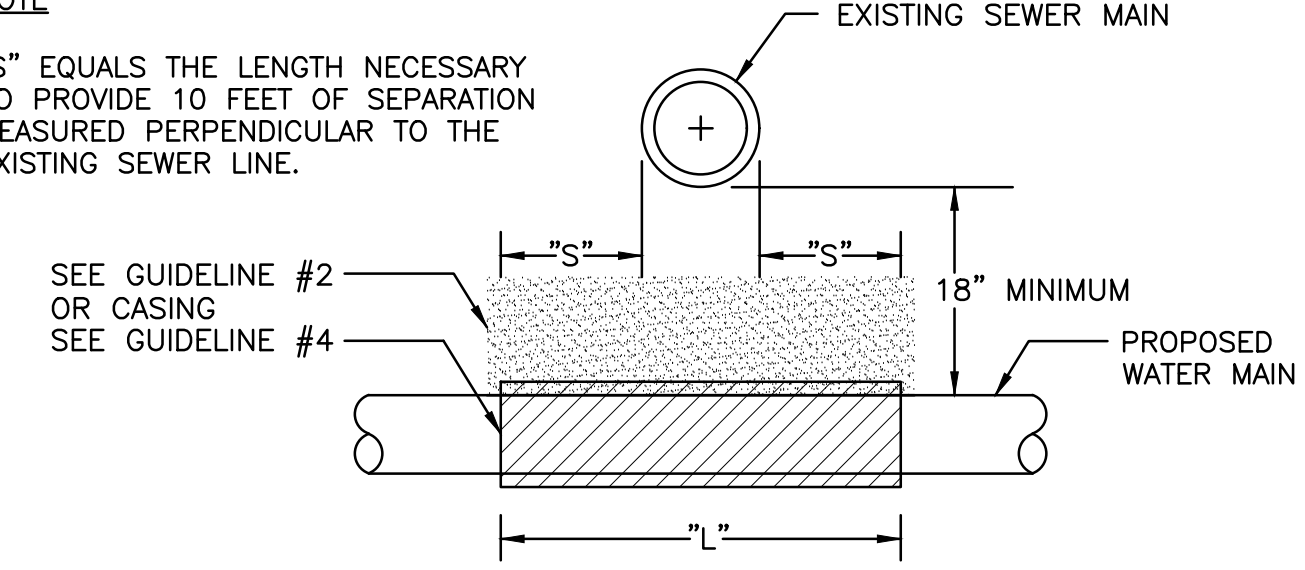


VALVE BOX DETAIL

N.T.S.

NOTE

"S" EQUALS THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE.

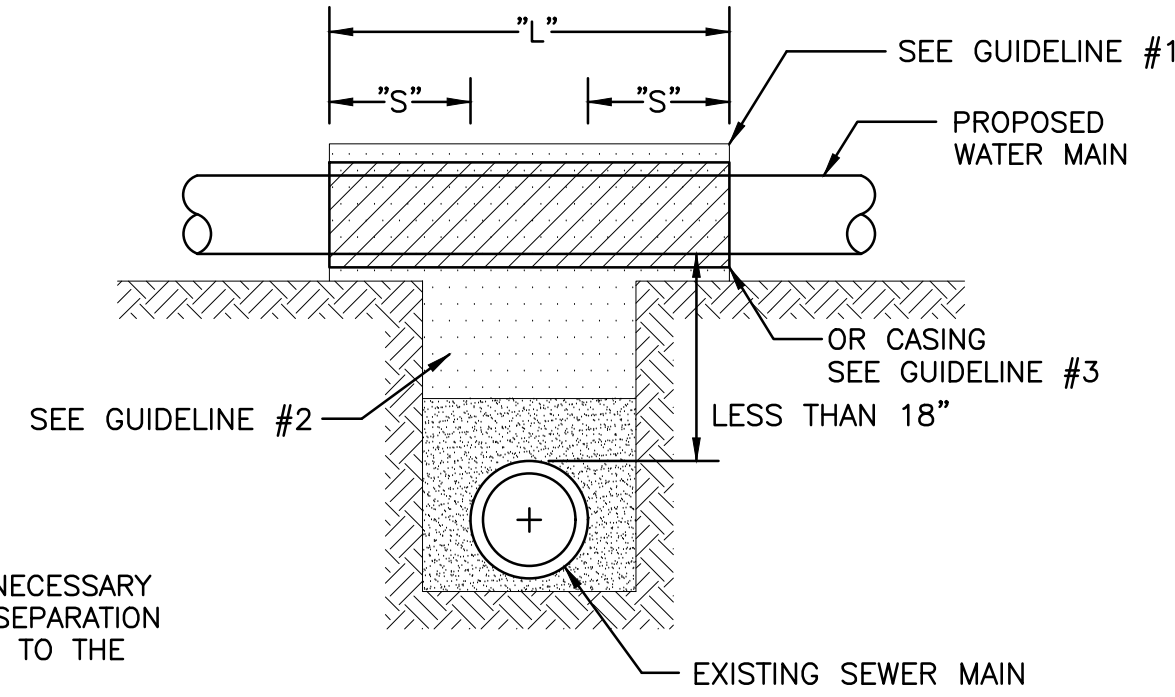


WATER AND SEWER SEPARATION DETAIL

N.T.S.

NOTE

"S" EQUALS THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE.

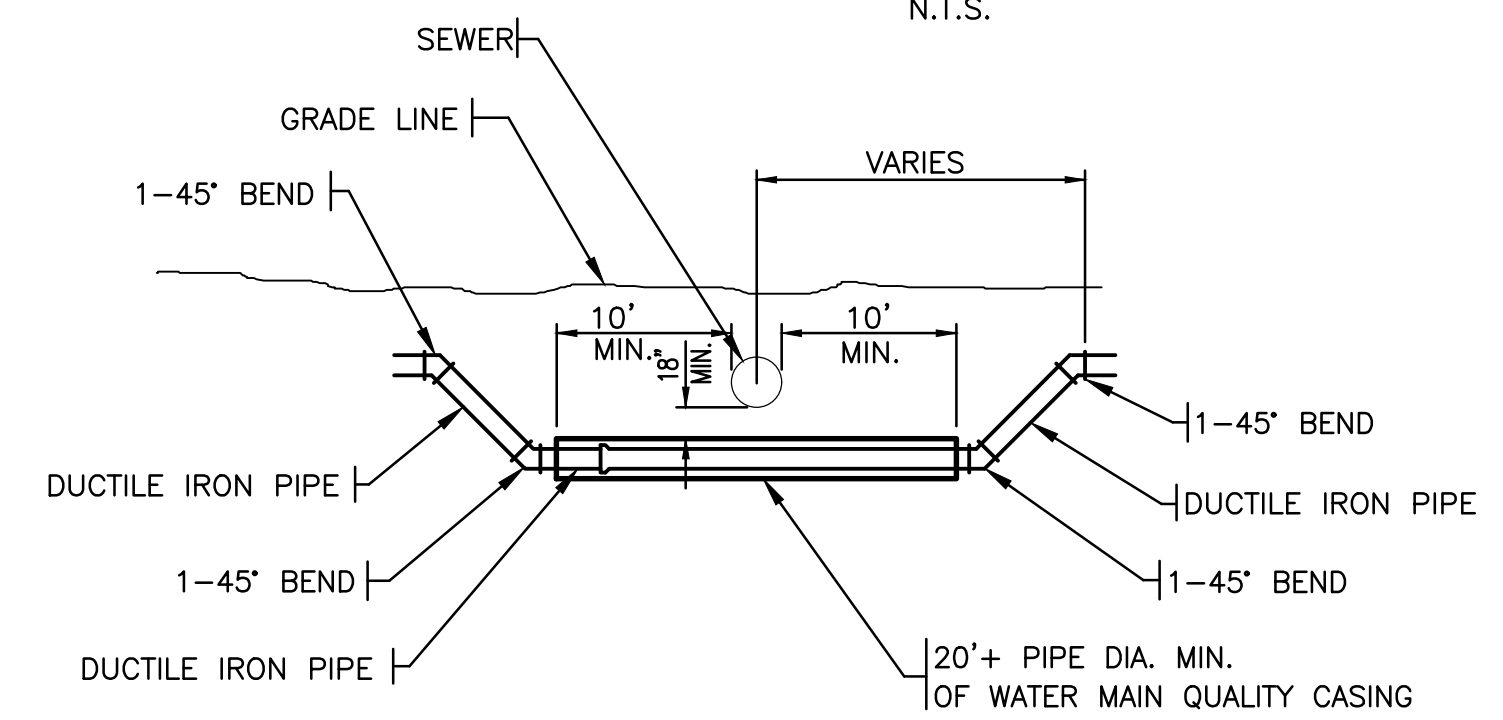


WATER AND SEWER SEPARATION DETAIL

N.T.S.

GUIDELINES

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
4. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.



TYPICAL WATER MAIN CROSSING UNDER A SEWER

N.T.S.

GUIDELINES

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER.

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Drawing Name: G:\Users\9936-02-Mazon-New Water Treatment-Plant\CAD\007 - SEWER DETAILS (3 OF 3).dwg Last Modified: Friday, February 6, 2026 10:22:48 AM Plotted On: Friday, February 6, 2026 3:13:07 PM by Jonathan Covert

LEVEL	BY	DATE	REVISIONS	DESCRIPTION
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CA
Chamlin & Associates

PERU
OTTAWA MORRIS
ILLINOIS

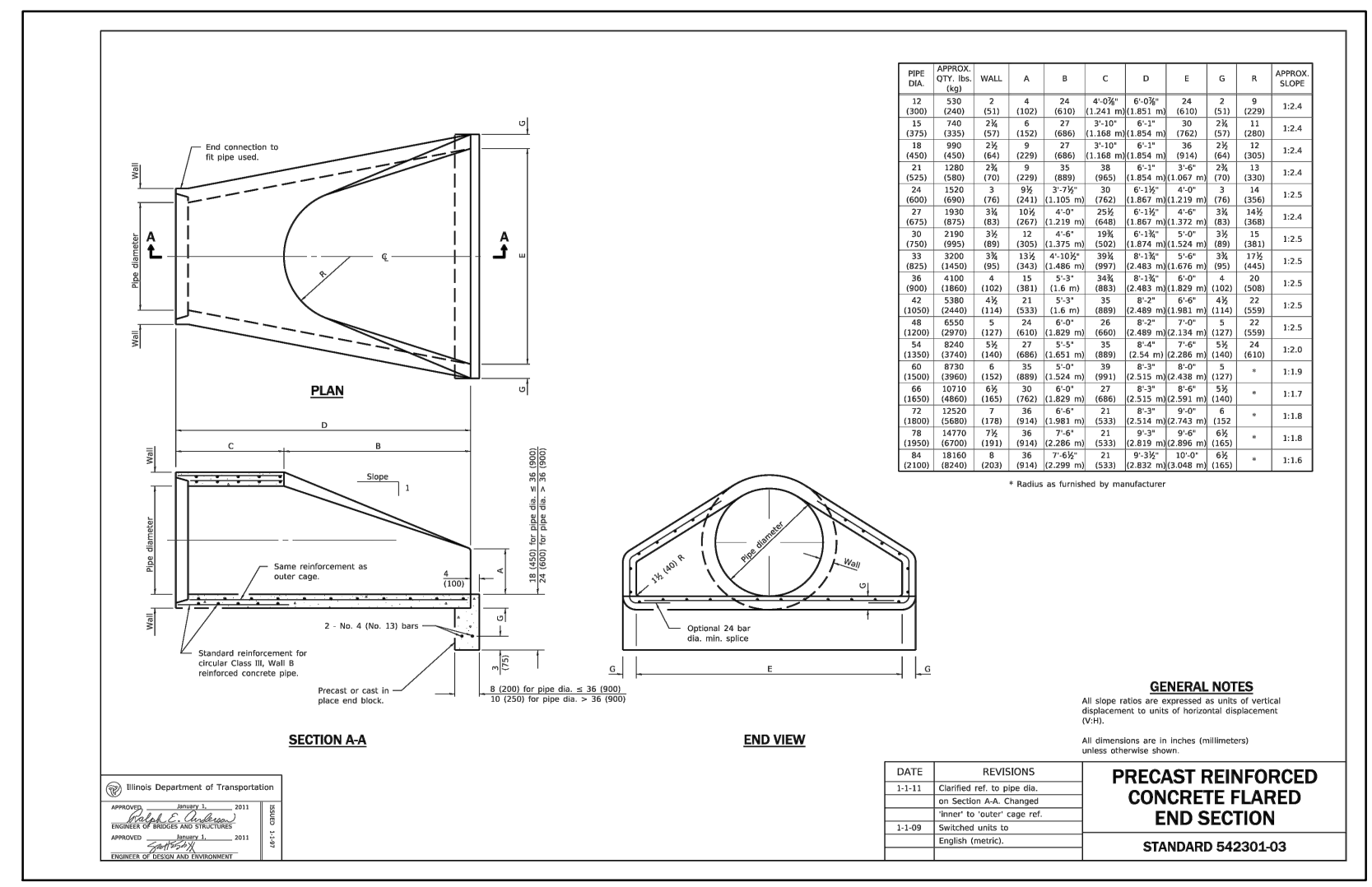
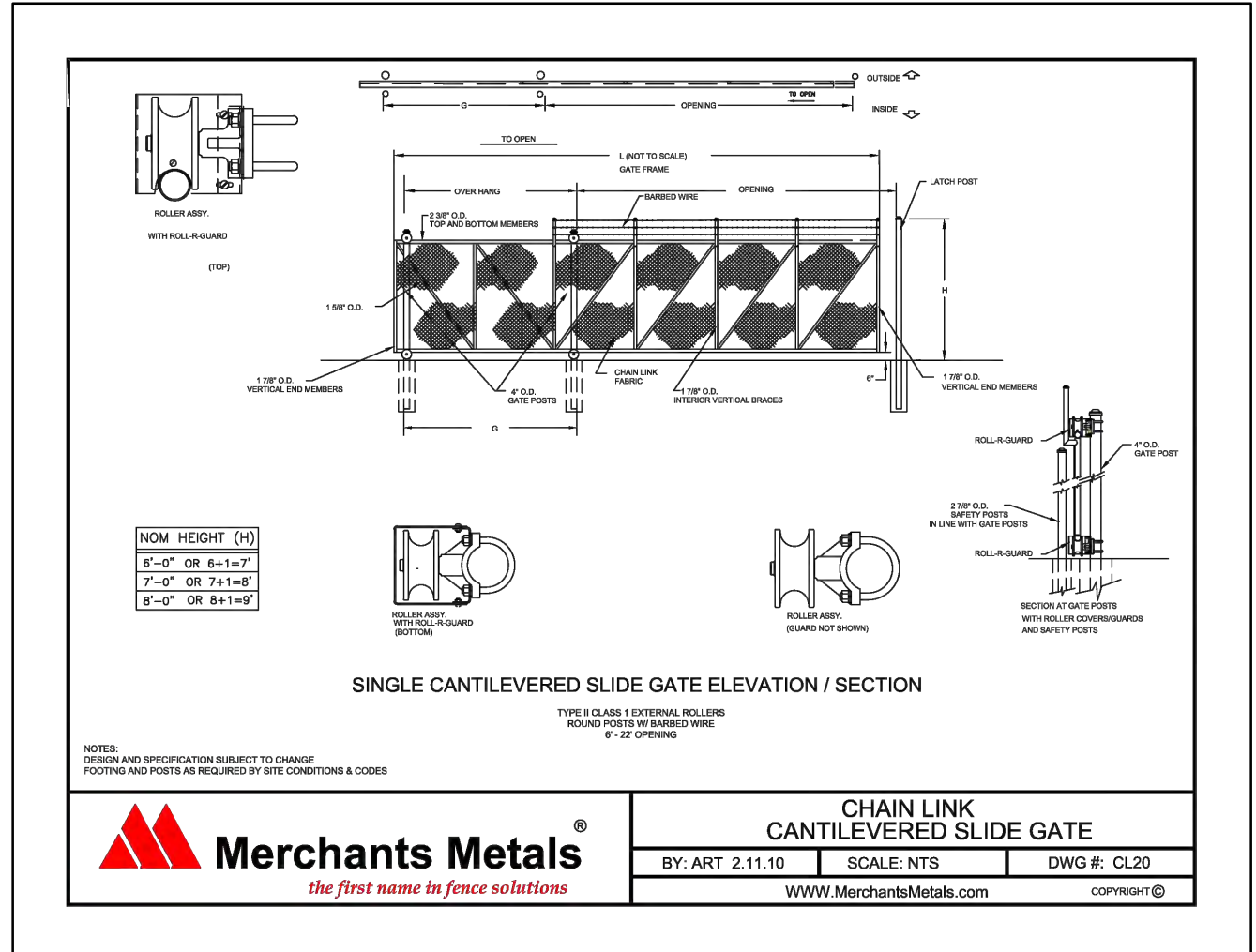
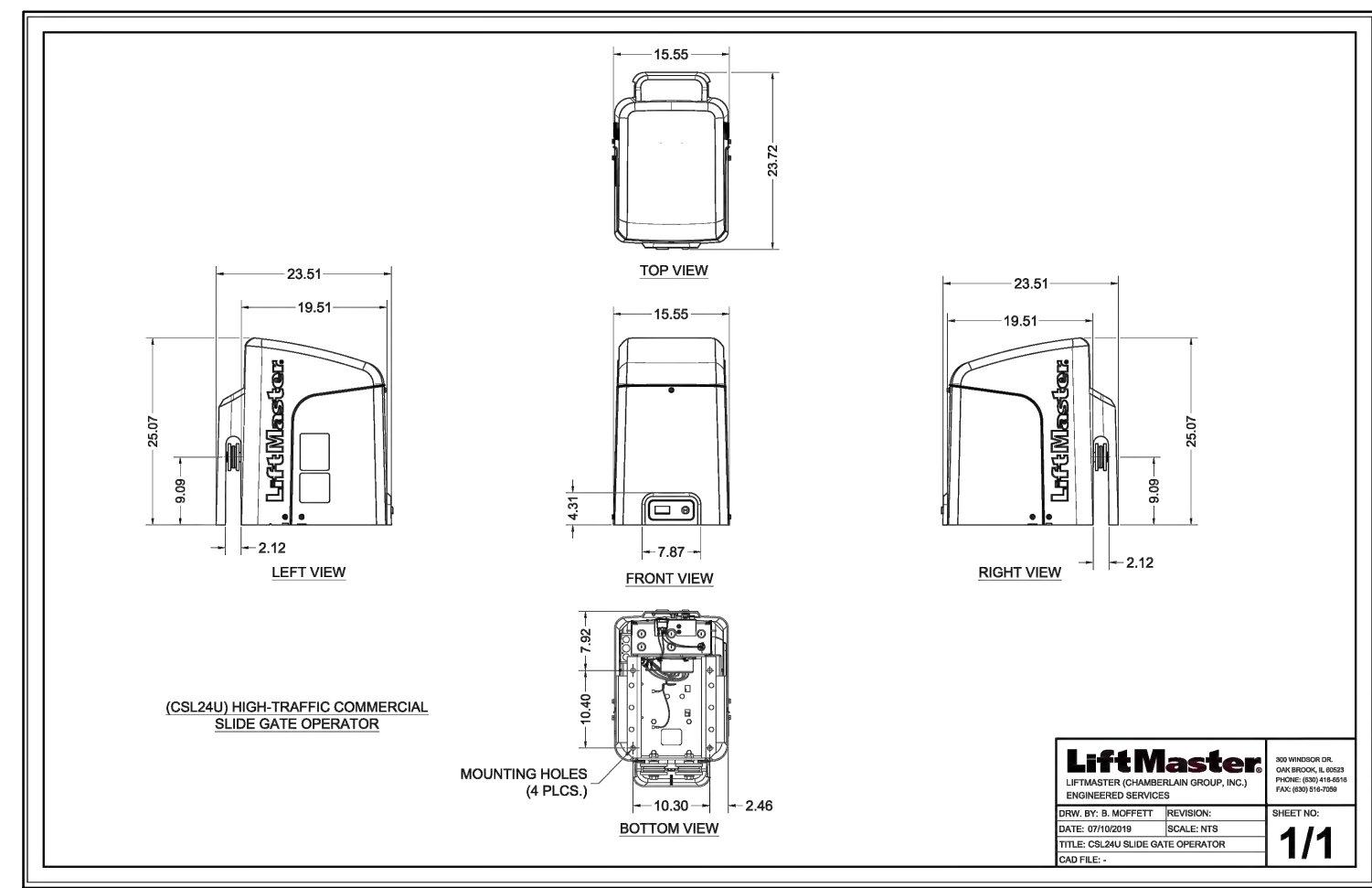
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

SEWER DETAILS
(3 OF 3)

BIDDING PLANS

CURRENT AS OF: 02/06/2026	
SCALE: AS NOTED	SHEET 7
FILE NO.: 9936.02 Y-	OF 55

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CSL24UL SLIDE GATE OPERATOR
SECTION 32 31 00

KEY FEATURES:
 - 1/2 HP motor
 - 120V AC power
 - 150 lbs weight

Specifications:
 Model: CSL24UL
 Voltage: 120V AC
 Power: 1/2 HP
 Weight: 150 lbs

Business Partners:
 LiftMaster

Specifications:

Performance:
 - 1/2 HP motor
 - 120V AC power
 - 150 lbs weight

Construction:
 - 1/2 HP motor
 - 120V AC power
 - 150 lbs weight

Business Partners:
 LiftMaster

SLIDE GATE OPERATOR DETAIL (OR APPROVED EQUAL)
N.T.S.

WIRELESS KEYPAD KPW250
SECTION 28 13 00

KEY FEATURES:
 - 120V AC power
 - 150 lbs weight

Specifications:
 Model: KPW250
 Voltage: 120V AC
 Power: 1/2 HP
 Weight: 150 lbs

Business Partners:
 LiftMaster

Wireless Keypad KPW250

Dimensions:
 TOP VIEW: 15.55 (width), 7.87 (height)
 LEFT VIEW: 15.55 (width), 2.12 (depth)
 FRONT VIEW: 7.87 (width), 2.12 (depth)
 RIGHT VIEW: 15.55 (width), 2.12 (depth)
 BOTTOM VIEW: 15.55 (width), 2.46 (depth)

Business Partners:
 LiftMaster

ENTRANCE GATE KEYPAD DETAIL (OR APPROVED EQUAL)
N.T.S.

GETTING STARTED WITH SWING AND SLIDE GATE OPERATOR.

Always design, install and maintain safe gate access systems in accordance with UL 325 & ASTM F2200 standards.

- Only install the operator on gates used for vehicular traffic.
- A separate pedestrian entry/exit must be clearly visible to promote pedestrian usage and located so pedestrians do not come in contact with the vehicular gate while it is moving.
- Install two independent* entrapment protection devices protecting each entrapment zone.
- Pickets of a slide gate must be designed or screened to prevent persons from reaching through a gate.
- Every installation is unique. It is the responsibility of the installer to ensure all entrapment zones are protected with a minimum of two independent* entrapment protection devices.
- Beginning August 1, 2018, for a slide gate operator to function, the operator will require a minimum of two independent* monitored safety entrapment protection devices in each direction: two in the open direction, two in the close direction.
- *Independent the same type of device shall not be utilized for both entrapment protection devices.

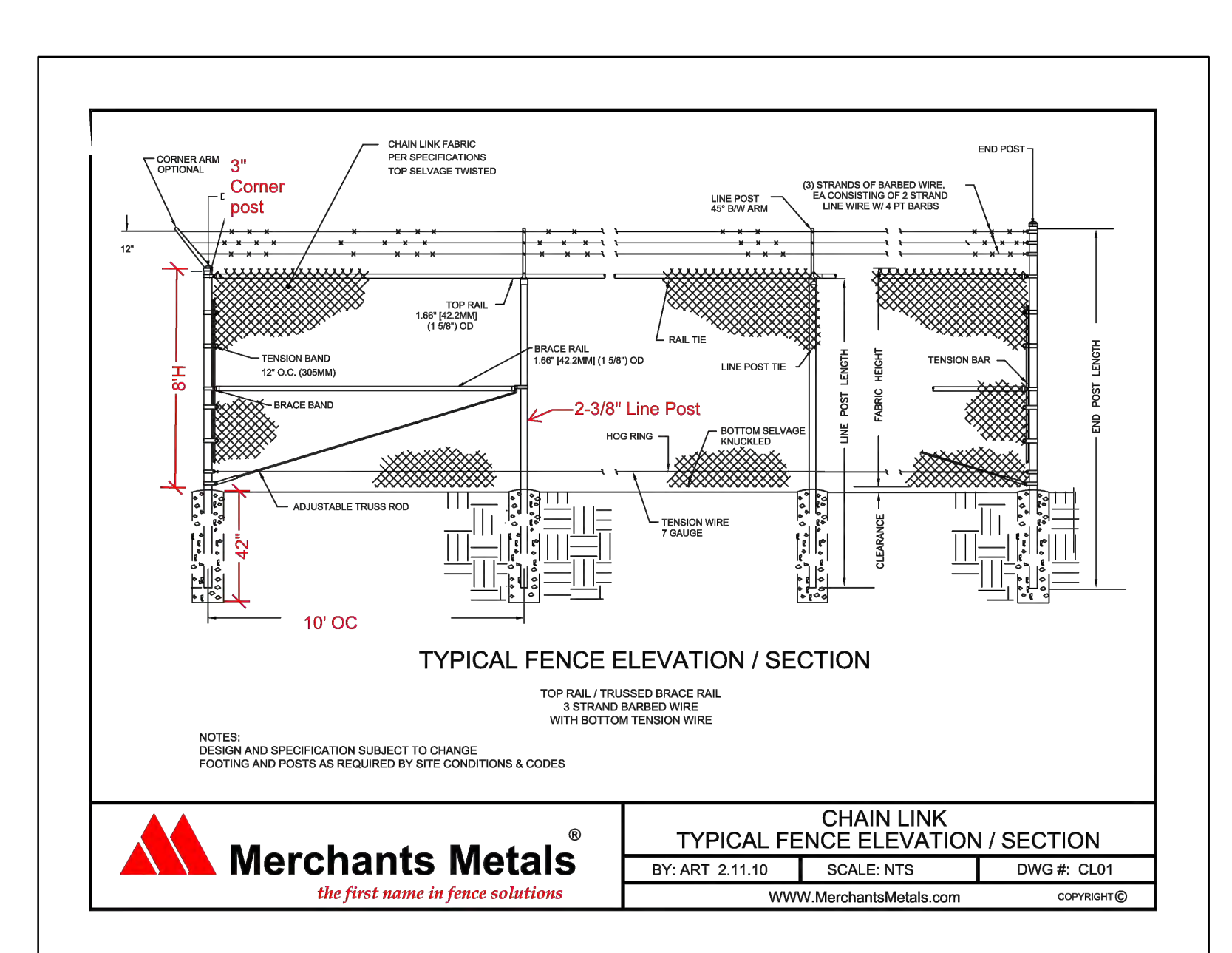
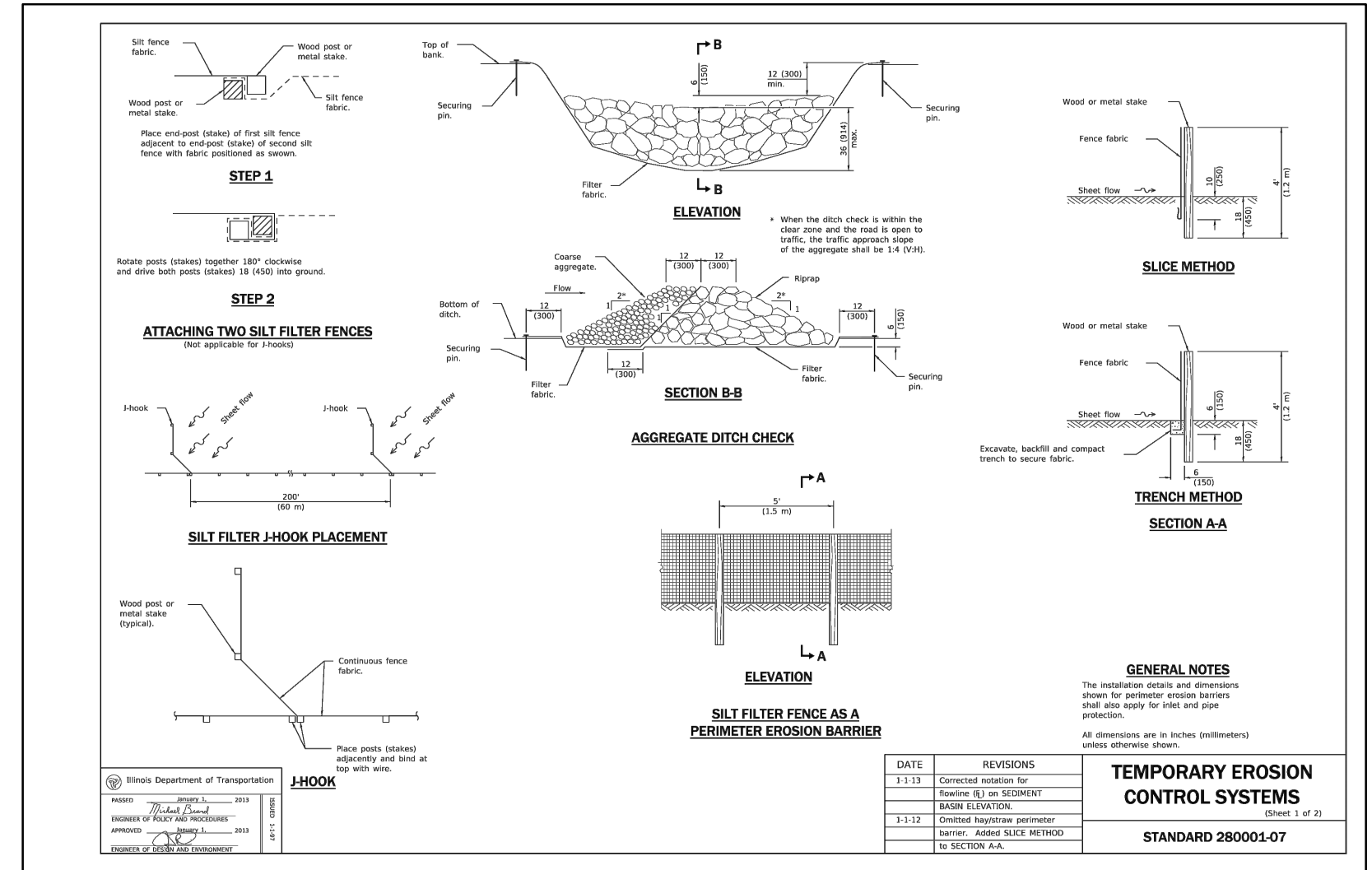
SLIDE GATE SITE LAYOUT GUIDELINES FIGURE 1

SLIDE GATE SPACING GUIDELINES FIGURE 2

SLIDE GATE OPENINGS GUIDELINES FIGURE 3

Base of Swing and Slide Gate FIGURE 4

Definitions:
 Entrapment: The condition when a person is caught or held in a position that increases the risk of injury.
 Slide Gate Entrapment Zones: An entrapment zone exists if at any point during travel, the gap between the moving gate and fixed counter opposing edges or surfaces exceeds 101.6mm (4 in). Any other gap between a moving gate and fixed counter opposing edges or surfaces or other fixed objects is less than 406mm (16 in) (occurrences are walls, curbs, seams, or other immovable objects).



ENTRANCE GATE DETAIL (OR APPROVED EQUAL)
N.T.S.

REVISIONS	LEVEL	BY	DATE	DESCRIPTION
1	1	CLD	1/28/26	REVISED FORCE MAIN AT RAIL ROAD CROSSING

PERU
OTTAWA MORRIS
ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

GENERAL DETAILS

BIDDING PLANS

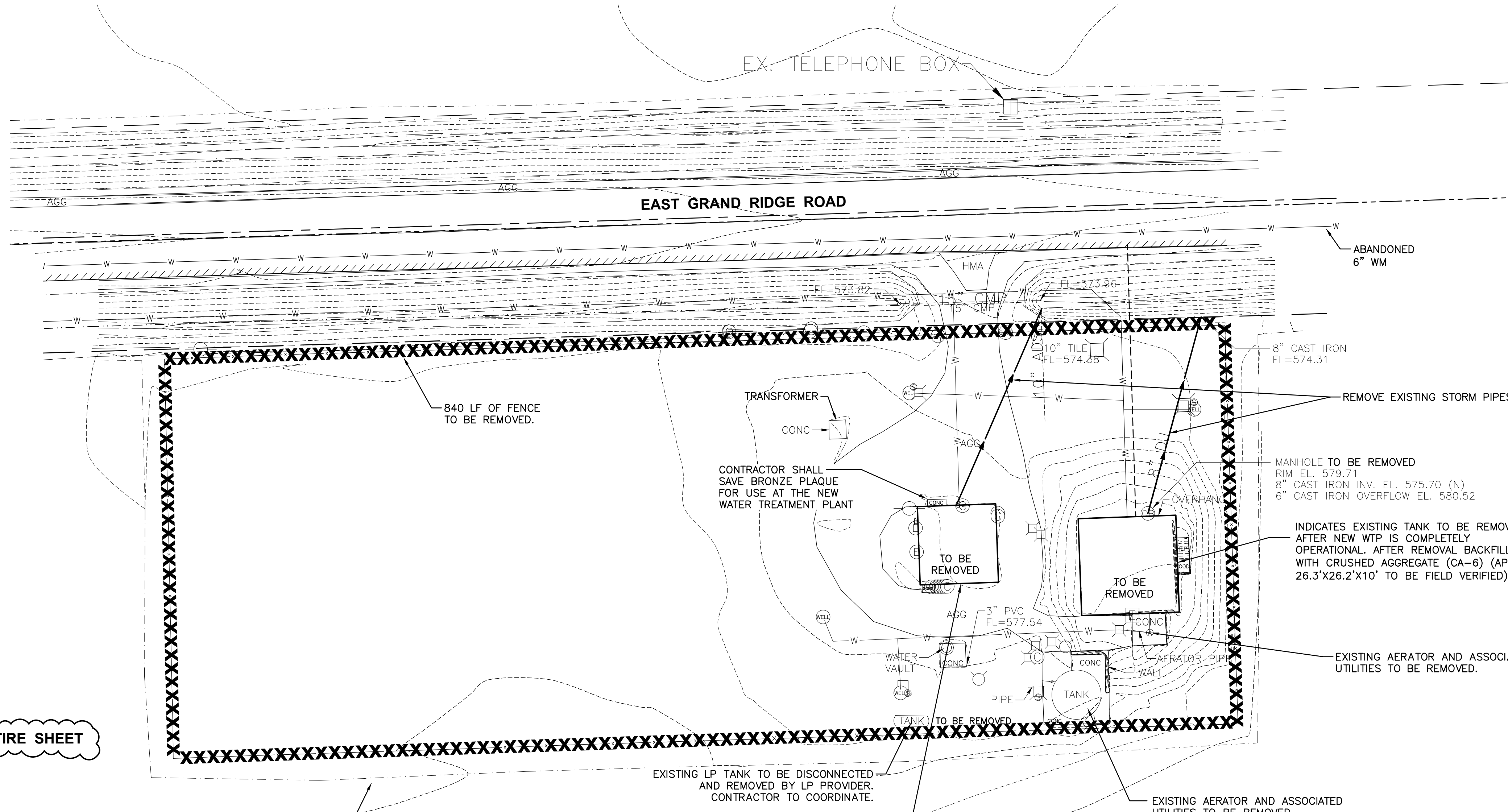
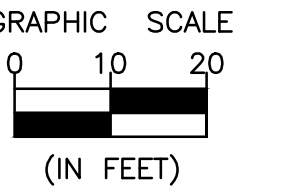
CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 8

FILE NO.: 9936.02 Y- OF 55

BECNHMARKS

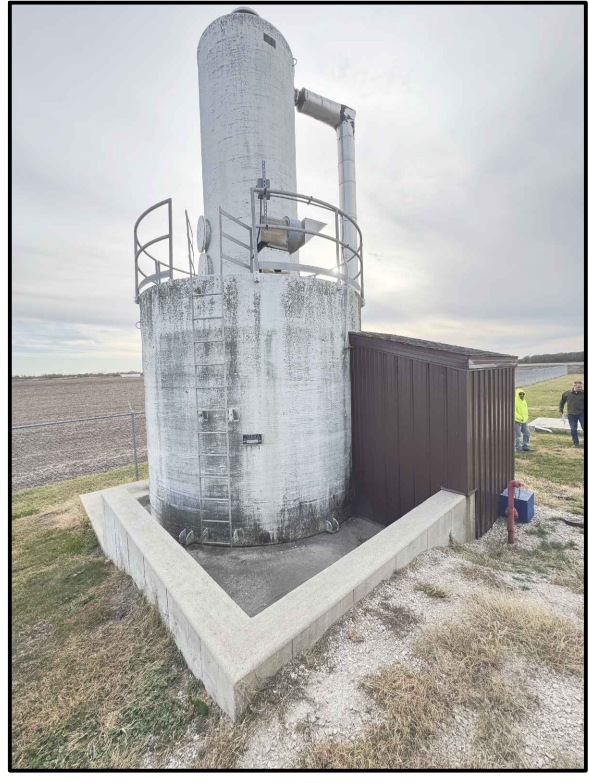
BM A
CHISELED 'X' ON SOUTHEAST CORNER OF CONCRETE
PAD FOR ELECTRICAL TRANSFORMER
ELEV.=577.51



LEGEND

- EXISTING LOT LINE
- - - FUTURE RIGHT-OF-WAY
- x EXISTING FENCE
- - - EXISTING STORM SEWER
- - - EXISTING SANITARY SEWER
- - - EXISTING ELECTRICAL LINE
- - - EXISTING WATER MAIN
- - - XXX EXISTING CONTOUR
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- ⊕ EXISTING ELECTRIC TRANSFORMER
- ⊕ EXISTING CATCH BASIN
- ⊕ EXISTING CLEAN OUT
- ⊕ EXISTING DOWNSPOUT
- ⊕ EXISTING GAS METER
- ⊕ EXISTING SAMPLING STATION
- ⊕ EXISTING CONDUIT
- ⊕ EXISTING WELL
- ⊕ EXISTING WATER VALVE
- F.F. FINISHED FLOOR
- CONC CONCRETE
- AGG AGGREGATE

2
ENTIRE SHEET



EXISTING POLE TO REMAIN



DEMOLISH REMAINDER OF ASSEMBLY

NOTE:

REMOTE WELLS SHALL NOT BE OUT OF OPERATION FOR MORE THAN 8 HOURS. CONTRACTOR SHALL PROVIDE OWNER 48 HOURS NOTICE PRIOR TO TAKING ANY WELL OFFLINE.

EXISTING SECURITY CAMERA PANEL TO REMAIN. MOUNT TO NEW ELECTRICAL ASSEMBLY. ALL WIRING, CONDUIT, AND TERMINATIONS TO THE REMOTE WELL CONTROL PANEL SHALL BE PROVIDED BY THE CONTRACTOR.

NOTES

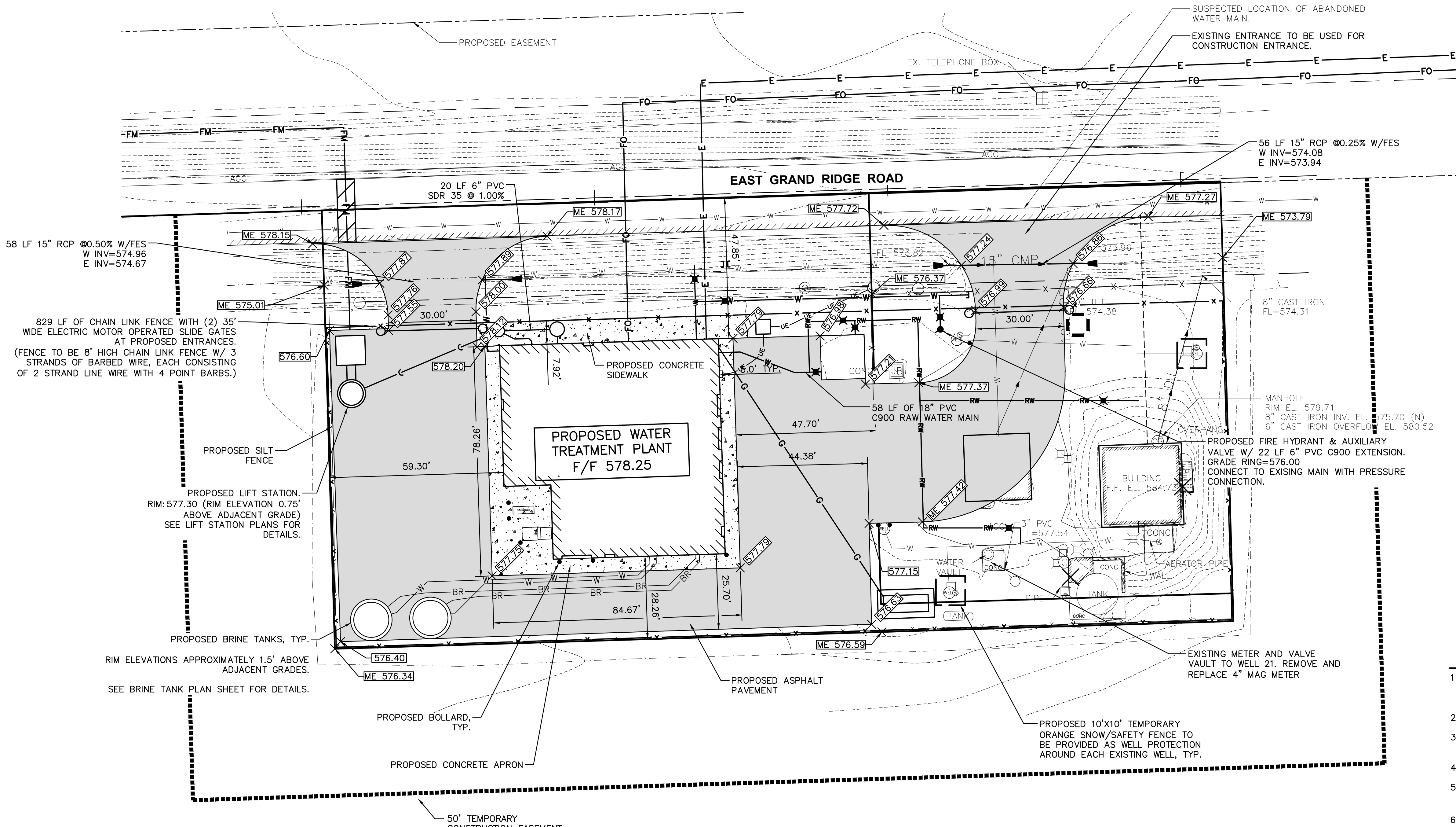
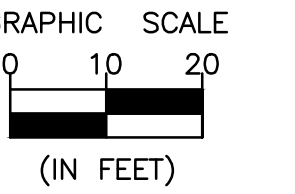
1. THE PROPERTY DOES NOT CONTAIN ANY FEMA REGULATORY FLOODPLAIN ON IT PER FIRM NUMBER 17063C0200F, EFFECTIVE AUGUST 02, 2012. THE NEAREST REGULATORY FLOODPLAIN IS JOHNNY RUN CREEK (ZONE A) WEST OF THE PROPERTY.
2. CONTRACTOR TO PROVIDE NECESSARY PROTECTION TO EXISTING UTILITIES. ANY DAMAGE TO THE EXISTING UTILITIES WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHOULD BE VERIFIED IN FIELD PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR TO COORDINATE UTILITY DISCONNECT WITH UTILITY PROVIDER ON BUILDINGS THAT ARE TO BE DEMOLISHED.
4. SEE PLAT OF SURVEY FOR BOUNDARY DIMENSIONS AND BEARINGS.
5. THERE ARE NO WETLANDS LOCATED ON PROPERTY PER U.S. FISH AND WILDLIFE SERVICES NATIONAL WETLANDS INVENTORY MAP.
6. ANY FIELD TILES DISCOVERED DURING EXCAVATION SHALL BE ROUTED AROUND THE AREA OF THE PROPOSED WORK.
7. EXISTING AGGREGATE THAT WILL NOT BE PAVED OVER TO BE REPLACED WITH 6" TOP SOIL AND SEED.
8. BUILDING FOUNDATIONS TO BE COMPLETELY REMOVED.
9. ALL DEMOLISHED MATERIAL TO BE REMOVED AND DISPOSED OF BY CONTRACTOR UNLESS OTHERWISE NOTED.
10. CONTRACTOR TO DEMO 2 EA EXISTING ELECTRICAL SERVICES. COORDINATE WITH UTILITY.

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Drawing Name: G:\Users\jg\936-02_Mazon-New Water Treatment Plant\CAD\009-EXISTING CONDITIONS & REMOVAL PLAN.dwg Last Modified: Thursday, February 26, 2026 4:39:17 PM Plotted On: Friday, February 27, 2026 11:34:13 AM by: Jonathan Covert

DRAWN BY: CLD CHECKED BY: TRH DATE: 06/2024	<table border="1"> <thead> <tr> <th>LEVEL</th> <th>BY</th> <th>DATE</th> <th>REVISIONS</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>JJC</td> <td>02/13/26</td> <td>ADDENDUM No. 1</td> <td></td> </tr> <tr> <td>2</td> <td>JJC</td> <td>02/26/26</td> <td>ADDENDUM No. 2</td> <td></td> </tr> </tbody> </table>	LEVEL	BY	DATE	REVISIONS	DESCRIPTION	1	JJC	02/13/26	ADDENDUM No. 1		2	JJC	02/26/26	ADDENDUM No. 2		<p>PERU OTTAWA MORRIS ILLINOIS</p>	<p>VILLAGE OF MAZON NEW WATER TREATMENT PLANT 2026</p>	<p>EXISTING CONDITIONS & REMOVAL PLAN</p>	<p>BIDDING PLANS</p>	<p>CURRENT AS OF: 02/26/2026</p> <p>SCALE: AS NOTED</p> <p>FILE NO.: 9936.02 Y- OF 55</p>
LEVEL	BY	DATE	REVISIONS	DESCRIPTION																	
1	JJC	02/13/26	ADDENDUM No. 1																		
2	JJC	02/26/26	ADDENDUM No. 2																		

BECNHMARKS

BM A
CHISELED 'X' ON SOUTHEAST CORNER OF CONCRETE
PAD FOR ELECTRICAL TRANSFORMER
ELEV.=577.51



LEGEND

- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE APRON
- PROPOSED FINISHED GRADE ELEVATION
- PROPOSED WATER MAIN/SERVICE
- PROPOSED FORCE MAIN
- PROPOSED CULVERT
- PROPOSED RAW WATER MAIN
- PROPOSED SILT FENCE
- PROPOSED WELL PROTECTION FENCE
- PROPOSED WATER VALVE
- PROPOSED FLARED END SECTION
- CONCRETE WASHOUT
- DRAINAGE ARROW
- PIPE BOLLARD

NOTES

1. THE PROPERTY DOES NOT CONTAIN ANY FEMA REGULATORY FLOODPLAIN ON IT PER FIRM NUMBER 17063C0200F, EFFECTIVE AUGUST 02, 2012. THE NEAREST REGULATORY FLOODPLAIN IS JOHNNY RUN CREEK (ZONE A) WEST OF THE PROPERTY.
2. WATER AND SEWER SERVICES TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.
3. CONTRACTOR TO PROVIDE NECESSARY PROTECTION TO EXISTING UTILITIES. ANY DAMAGE TO THE EXISTING UTILITIES WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
4. ANY FIELD TILES DISCOVERED DURING EXCAVATION SHALL BE ROUTED AROUND THE AREA OF THE PROPOSED WORK.
5. CONTRACTOR TO FOLLOW ALL ILLINOIS URBAN MANUAL REQUIREMENTS FOR SEDIMENT AND EROSION CONTROL AND IDOT STANDARD 280001-07 (TEMPORARY EROSION CONTROL SYSTEMS) AS REQUIRED BY THE SCOPE OF WORK.
6. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED SHALL BE RESTORED WITH 6" OF TOPSOIL, IDOT CLASS 1 SEED AND FERTILIZED.
7. CONTRACTOR IS RESPONSIBLE TO KEEP OFF-SITE ROADWAYS CLEAN OF SILT AND DEBRIS. OFFSITE ROADWAYS SHALL BE CLEANED DAILY OR AS DIRECTED BY MUNICIPAL ENGINEER.
8. THERE ARE NO WETLANDS LOCATED ON PROPERTY PER U.S. FISH AND WILDLIFE SERVICES NATIONAL WETLANDS INVENTORY MAP.
9. CONTRACTOR TO PROVIDE POTABLE TOILET AND DUMPSTER FOR CONSTRUCTION DEBRIS. THESE ITEMS ARE TO BE CONSIDERED INCIDENTAL TO THE CONTRACT.
10. PROPOSED ELECTRIC GATES TO BE POWERED BY LIFTMASTER C3L24UL OPERATOR WITH HEATER, OR APPROVED EQUAL. GATES TO BE RECEIVE POWER FROM BUILDINGS ELECTRICAL SERVICE - EACH GATE TO HAVE THREE (3) REMOTE CONTROLLERS.

1 2
ENTIRE SHEET

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Drawing Name: G:\Users\VA9316-02-Mazom-New Water Treatment Plant\CAD\010-SITE PLAN.dwg Last Modified: Wednesday, March 11, 2026 8:11:35 AM Plotted On: Wednesday, March 11, 2026 8:12:20 AM by Josh Warkhovich

GRUNDY COUNTY HIGHWAY DEPARTMENT IS TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY WORK WITHIN THE GRAND RIDGE ROAD RIGHT-OF-WAY. PHONE: (815) 942-0363

DRAWN BY: CLD		REVISIONS	
LEVEL	BY	DATE	DESCRIPTION
1	JJC	02/23/26	ADDENDUM No. 2
2	TRH	3/6/26	ADDENDUM No. 3

PERU
OTTAWA MORRIS
ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

SITE PLAN

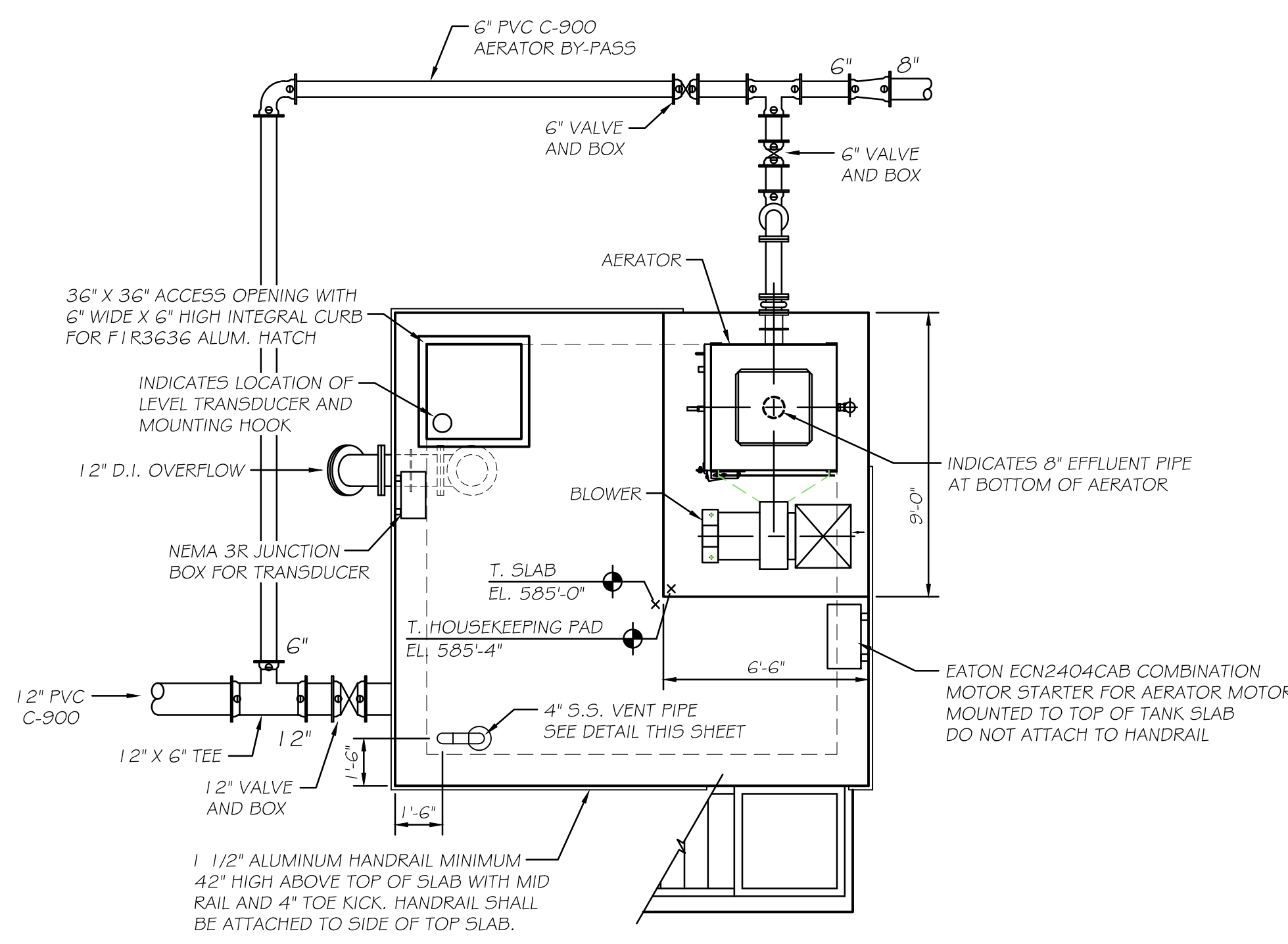
BIDDING PLANS

CURRENT AS OF: 02/23/2026

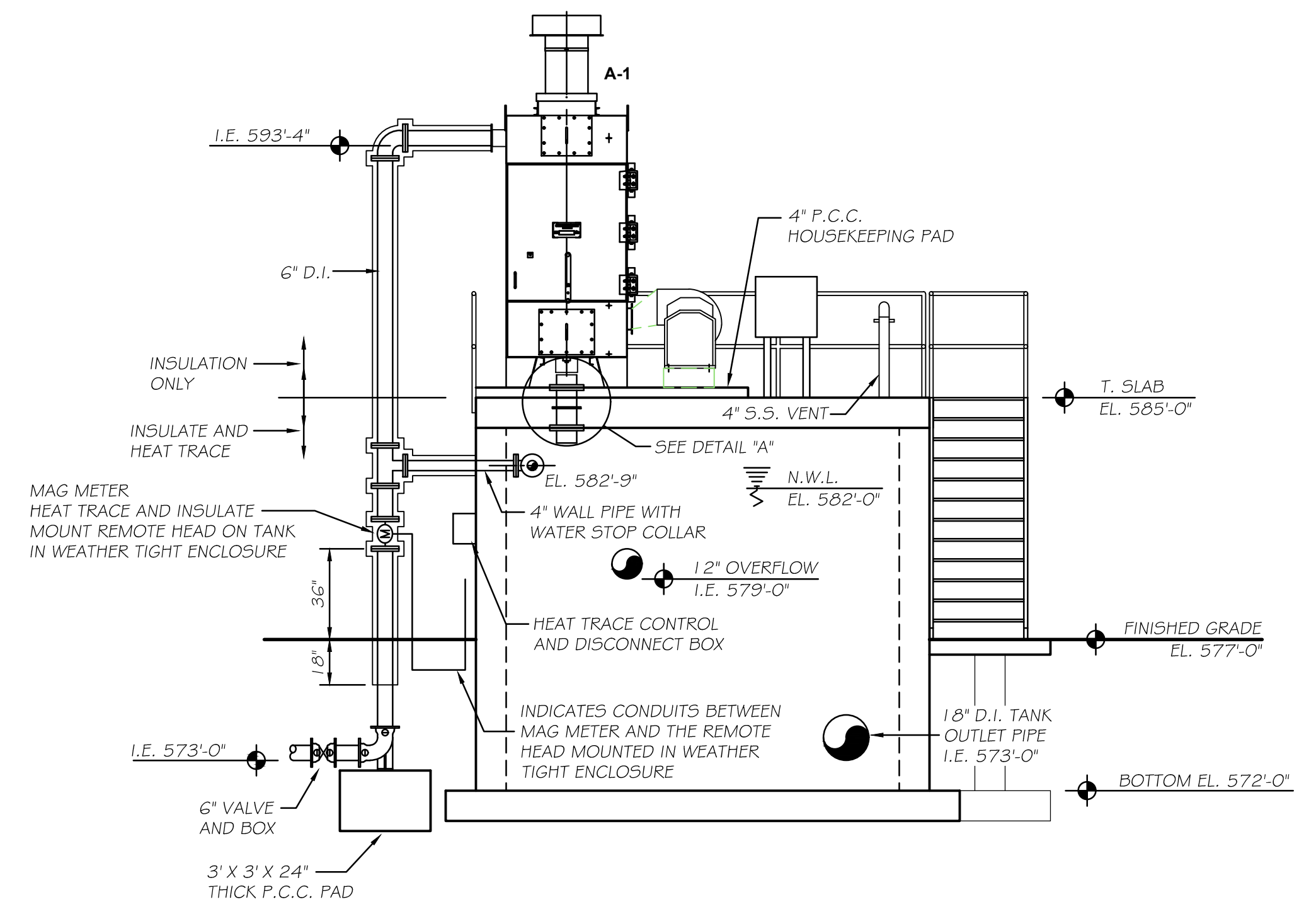
SCALE: 1"=20' SHEET 10

FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\A\936-02_Mazon-New Water Treatment Plant\CAD\012-AERATION TANK PLAN AND DETAILS.dwg
 Last Modified: Friday, February 6, 2026 11:20:31 AM
 Plotted On: Friday, February 6, 2026 3:19:03 PM by Jonathan Covert

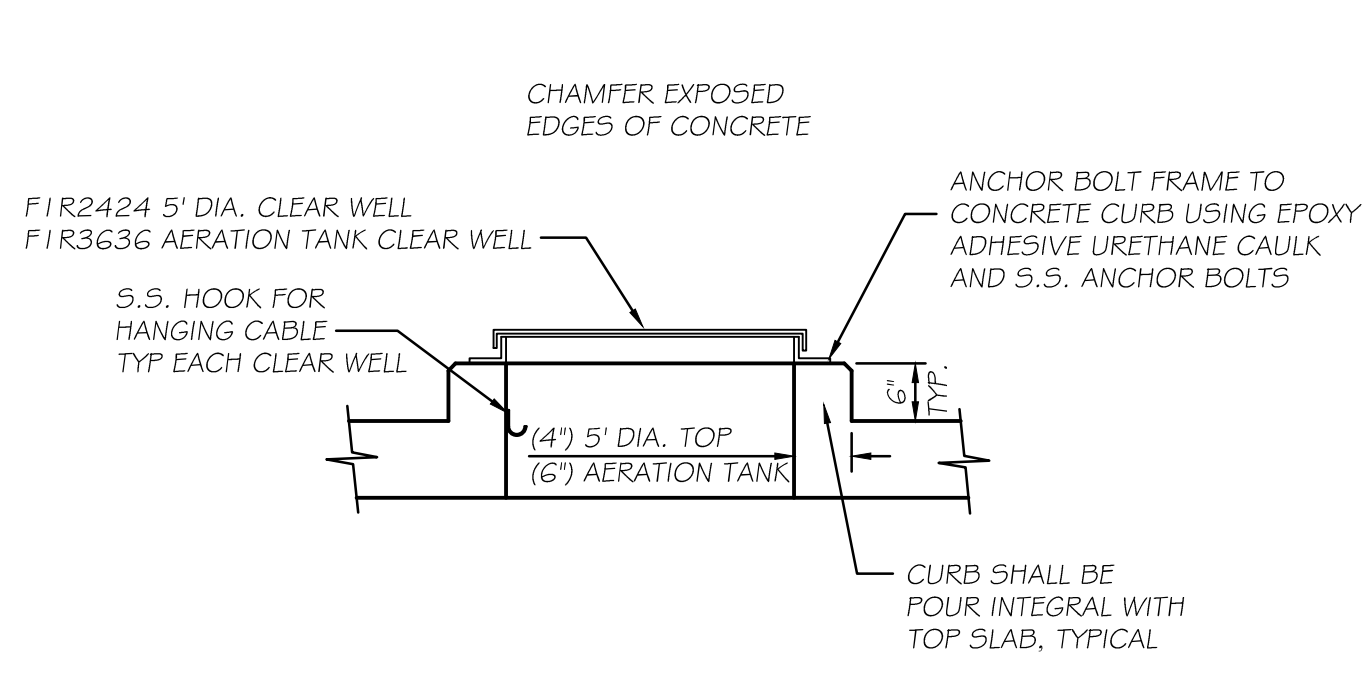


AERATOR CLEAR WELL
N.T.S.

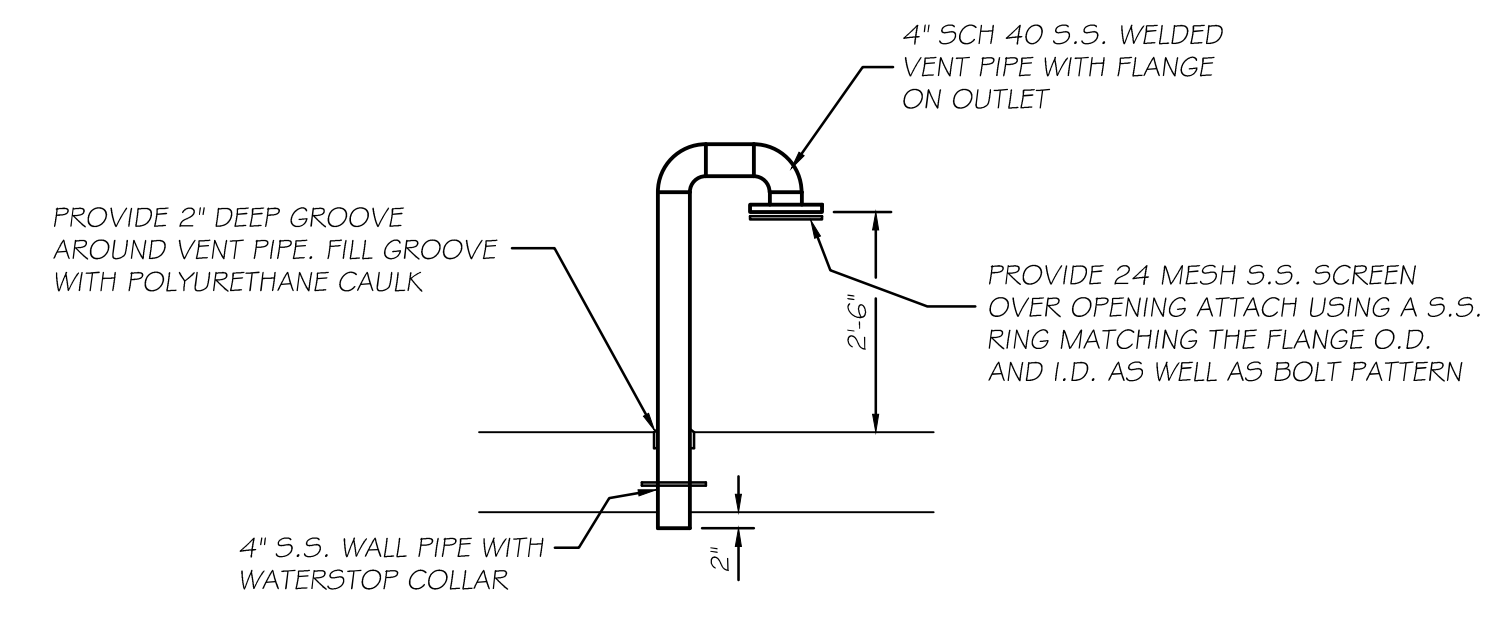


AERATOR CLEAR WELL
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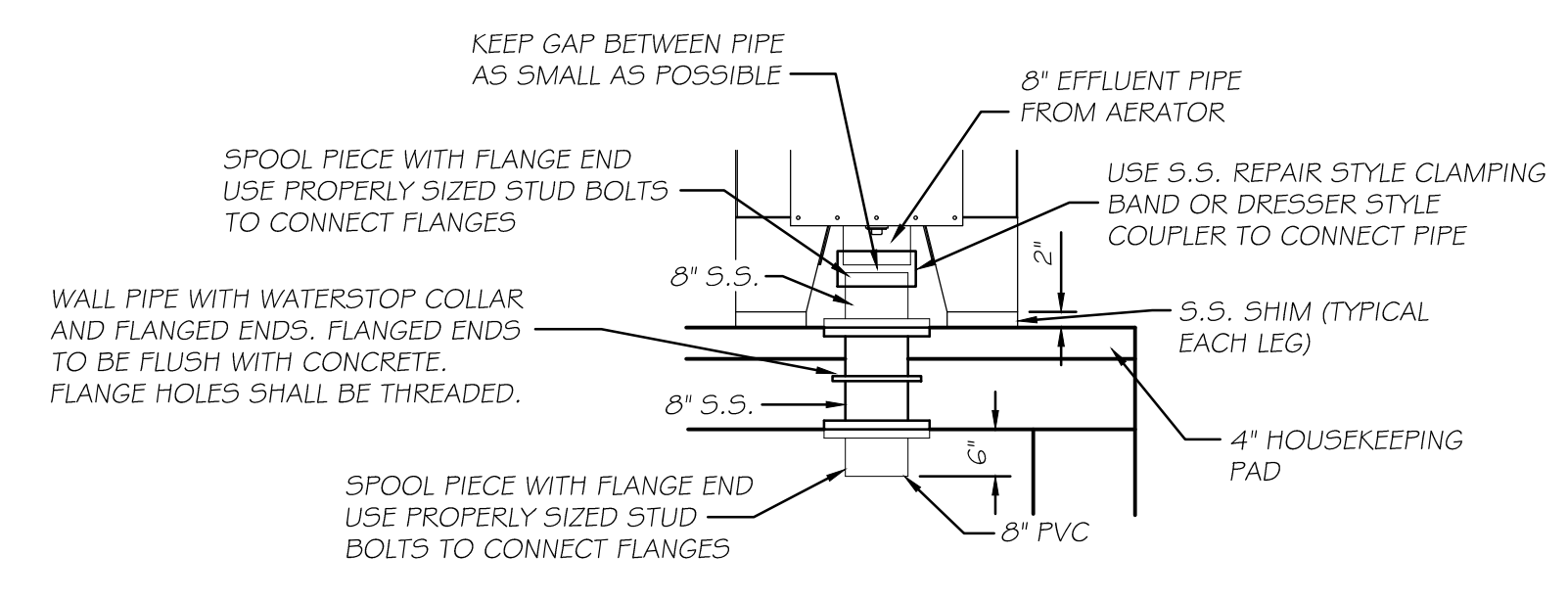
ACCESS DOORS FOR THE CLEARWELL SHALL BE AS PROVIDED BY HALLIDAY PRODUCTS OR APPROVED EQUAL. MODEL NUMBERS ARE SHOWN ON THE DETAILS. HATCHES SHALL INCLUDE STAINLESS STEEL ATTACHING HARDWARE, HINGES, AND PADLOCK LUGS.
 FRAMES SHALL BE 1/4-INCH ALUMINUM. DOORS SHALL BE 1/4-INCH ALUMINUM DIAMOND PLATE WITH NEOPRENE GASKETS.
 ATTACH TO CONCRETE WITH 3/8-INCH STAINLESS STEEL EXPANSION ANCHORS WITH A MINIMUM 3-INCH EMBEDMENT. PROVIDE A CONTINUOUS SILICONE GASKET BETWEEN THE CONCRETE AND FRAME.
 ALL PENETRATIONS INTO THE CLEARWELL SHALL BE WATERTIGHT



ACCESS OPENING DETAIL
N.T.S.



VENT PIPE DETAIL
N.T.S.



DETAIL "A"
N.T.S.

DRAWN BY: JJC	REVISIONS			
CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 06/2024				

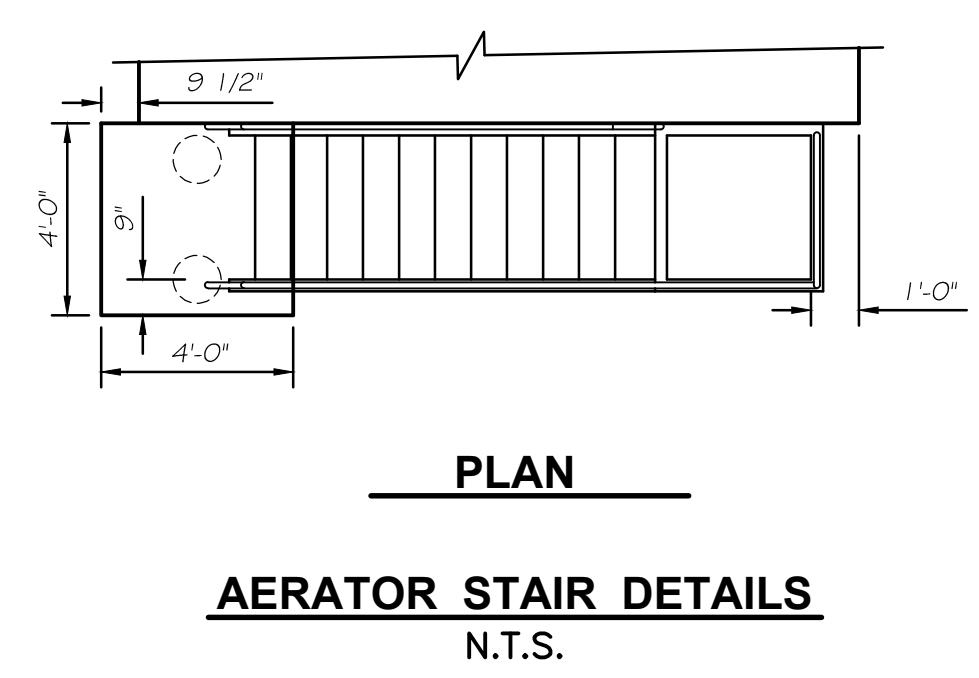
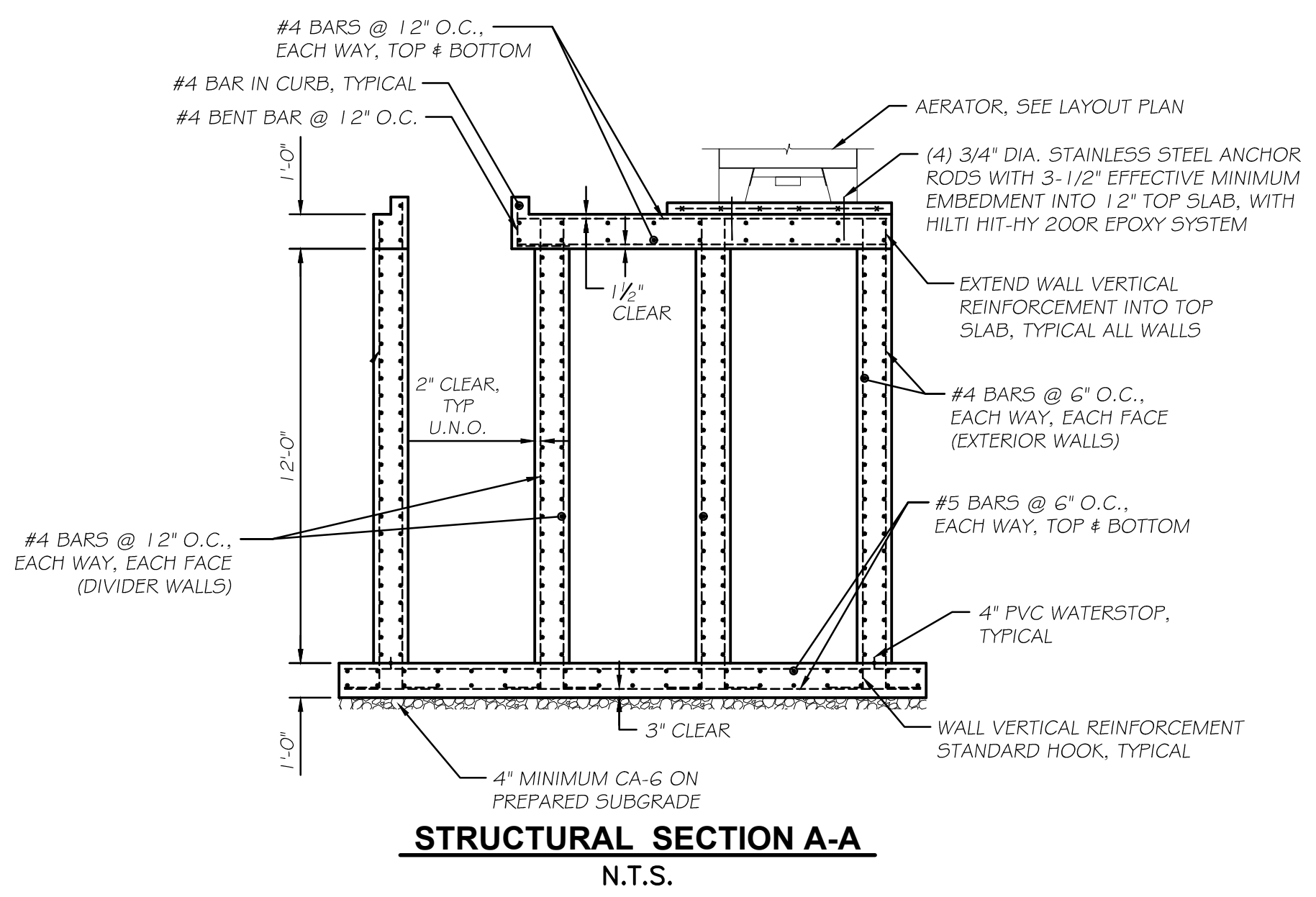
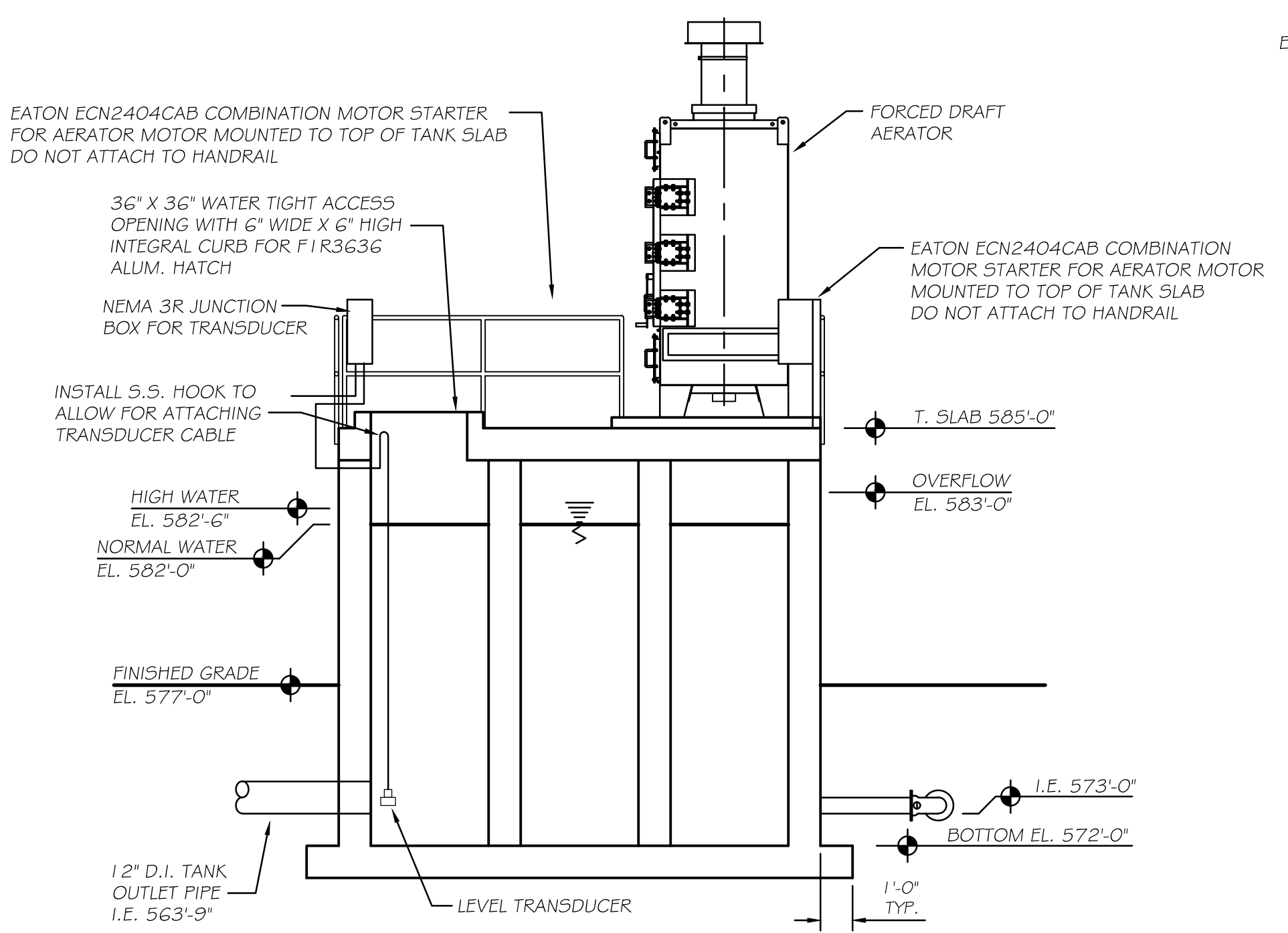
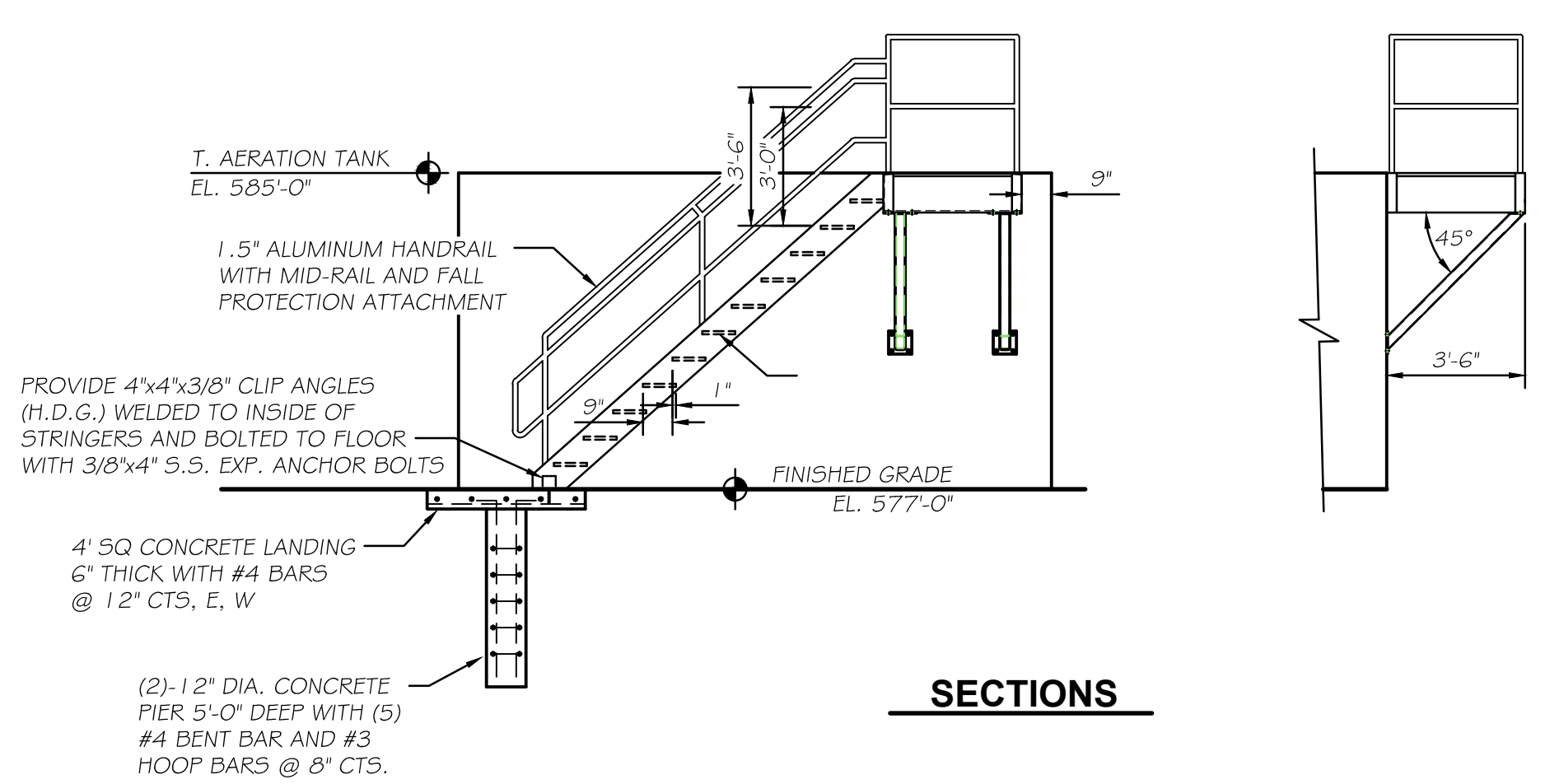
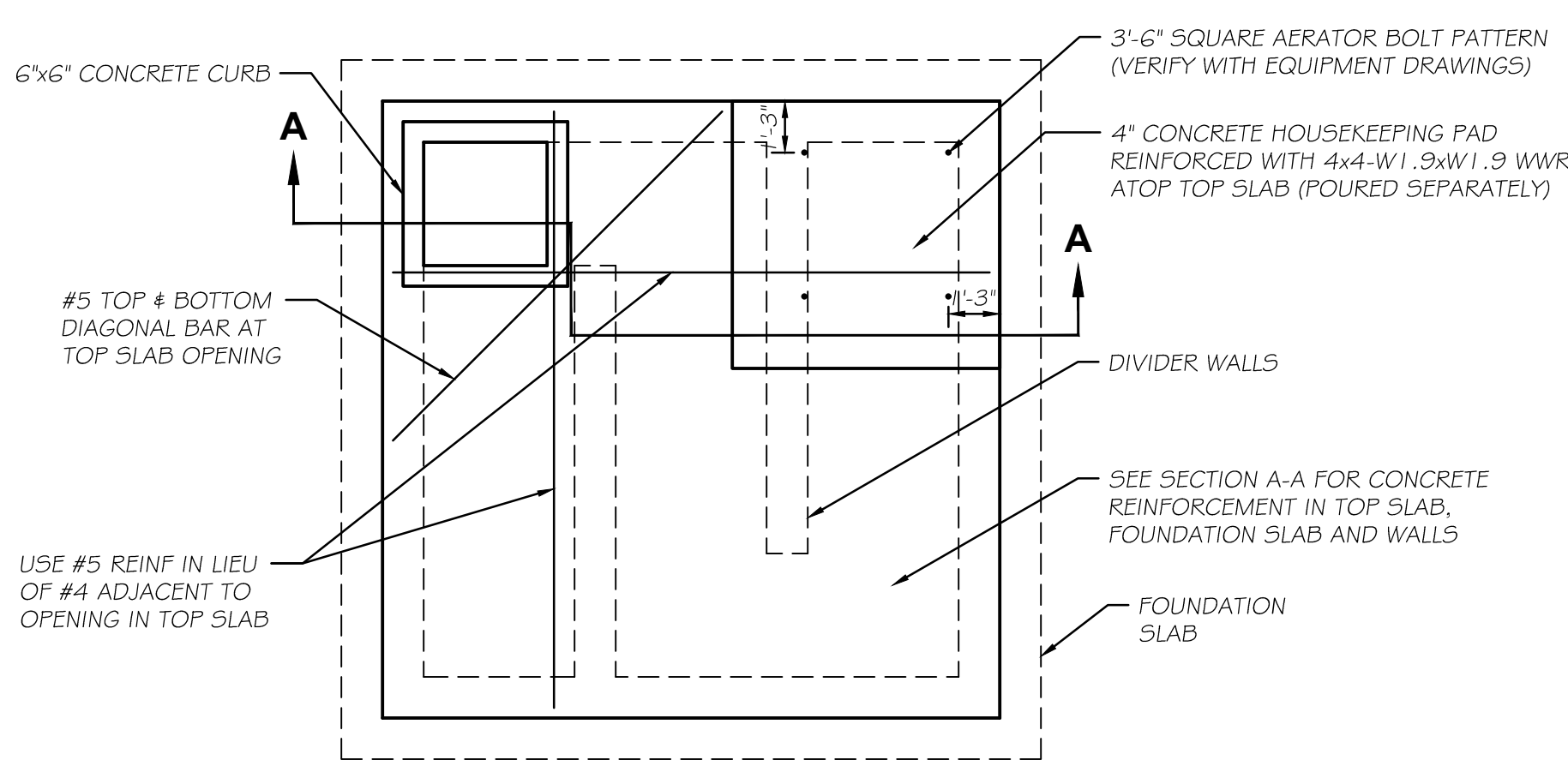
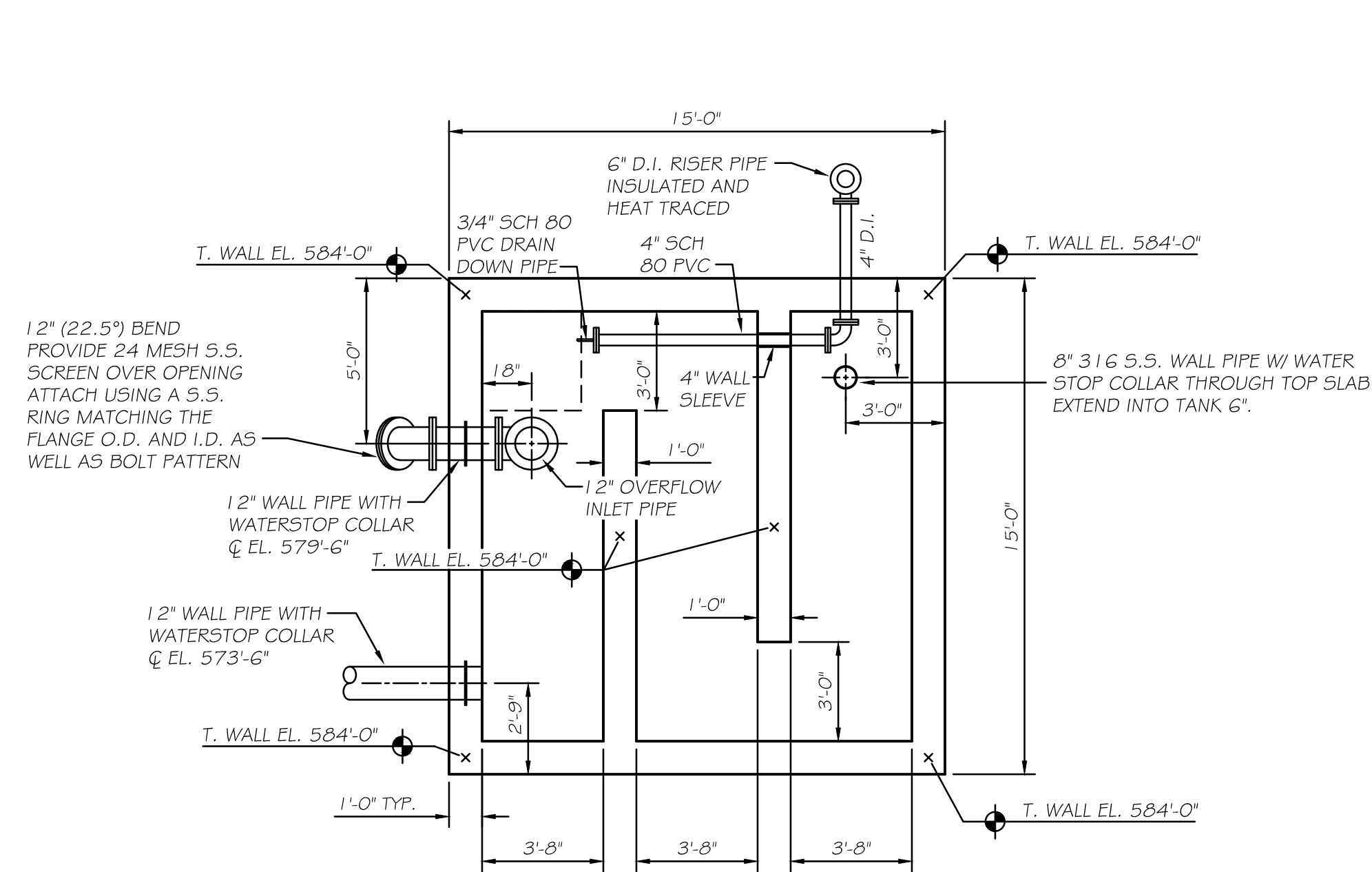

 PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

AERATION TANK
PLAN AND DETAILS

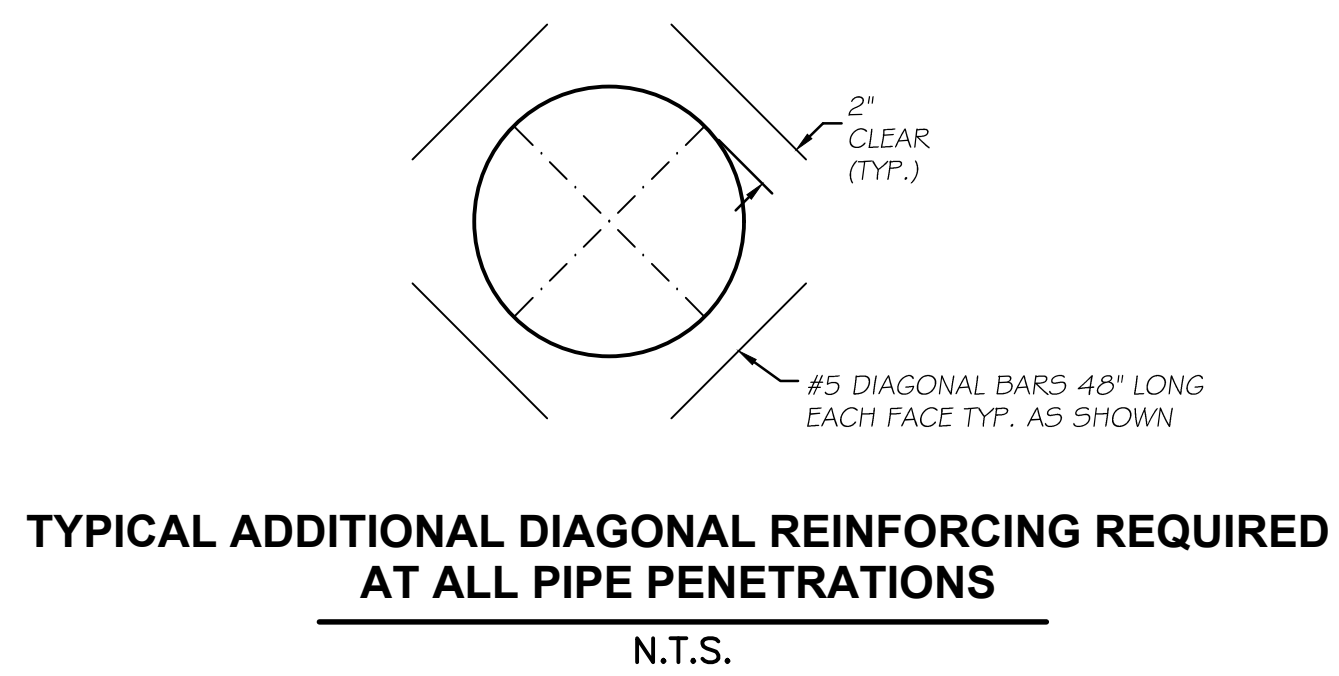
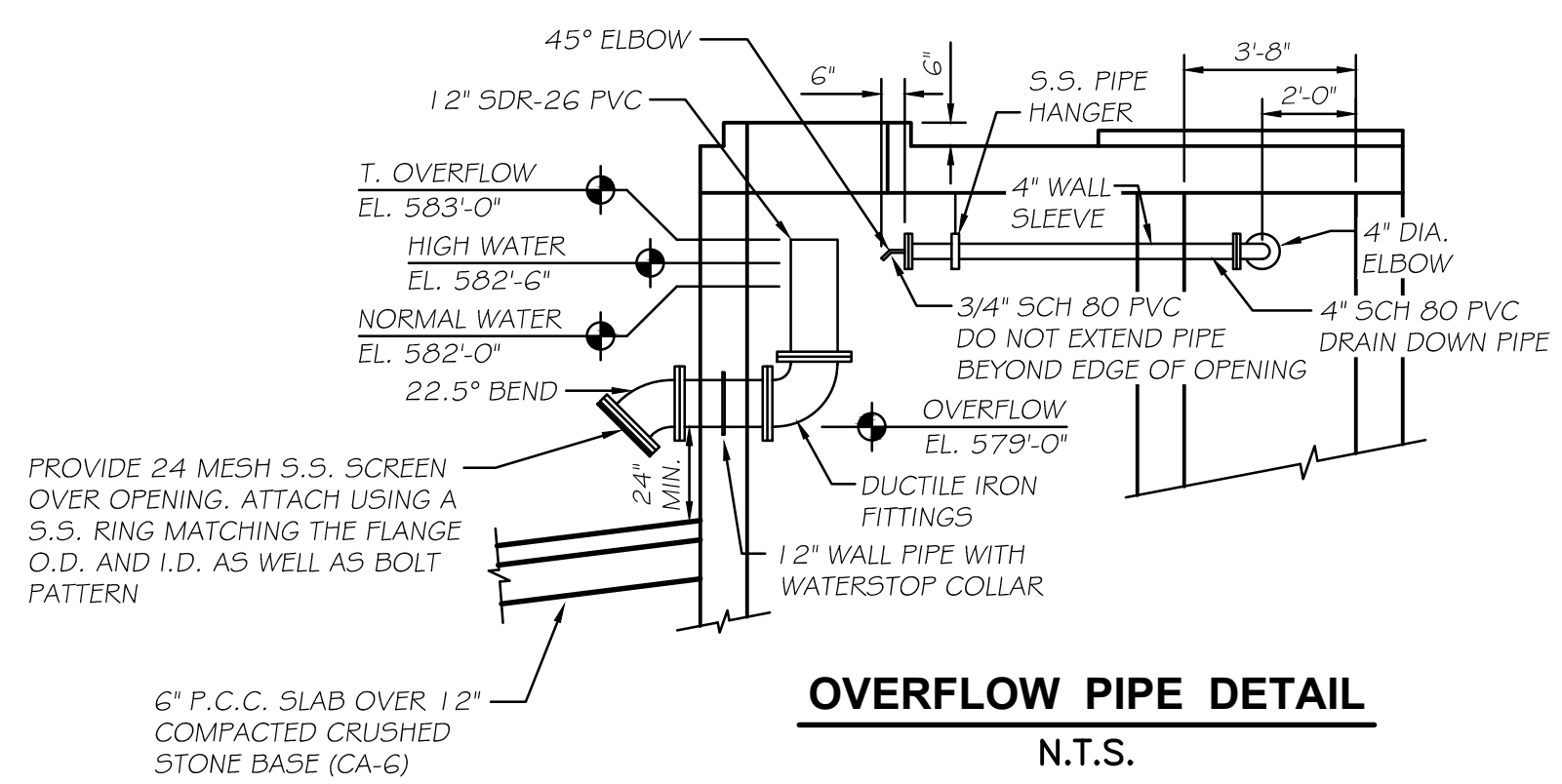
BIDDING PLANS
 CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
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 Last Modified: Friday, February 6, 2026 3:19:51 PM
 Plotted On: Friday, February 6, 2026 3:06:41 PM
 by: Jonathan Cover



STAIRWAY NOTES:

EXTERIOR STAIR STRINGERS AND FRAME SHALL BE C10x30 (H.D.G.)
 STRINGERS, AND FRAME NEXT TO WALL SHALL BE ATTACHED TO THE WALL WITH 1/2" S.S. EXP. ANCHORS PROVIDE 4 ANCHORS PER STRINGER AND 2 ANCHORS FOR LANDING FRAME HAVING A MIN. 3" EMBEDMENT.
 LANDING SUPPORT BRACES SHALL BE 3"x3"x1/4" TUBE (H.D.G.) WITH 5"x10"x3/8" TOP PLATE AND 7"x7"x3/8" WALL END PLATE. PROVIDE (4) 1/2" DIA. S.S. ANCHOR BOLTS FOR WALL END PLATE AND WELD TOP PLATE TO TUBE AND LANDING. 2 SUPPORT BRACES PER LANDING.
 METAL STAIRS AND LANDING SHALL BE 36" SQ. BETWEEN HANDRAILS
 STAIRS SHALL BE 36" CLEAR BETWEEN HANDRAILS
 FALL PROTECTION ATTACHMENT SHALL BE LOCATED ON OUTSIDE OF HANDRAIL
 THE LANDING SHALL BE ALUMINUM I-BAR GRATING (19-5GE-4 1-1/2" X 3/16") AND TREADS SHALL BE I-BARS



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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: RTB				
DATE: 06/2024				

CA
Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

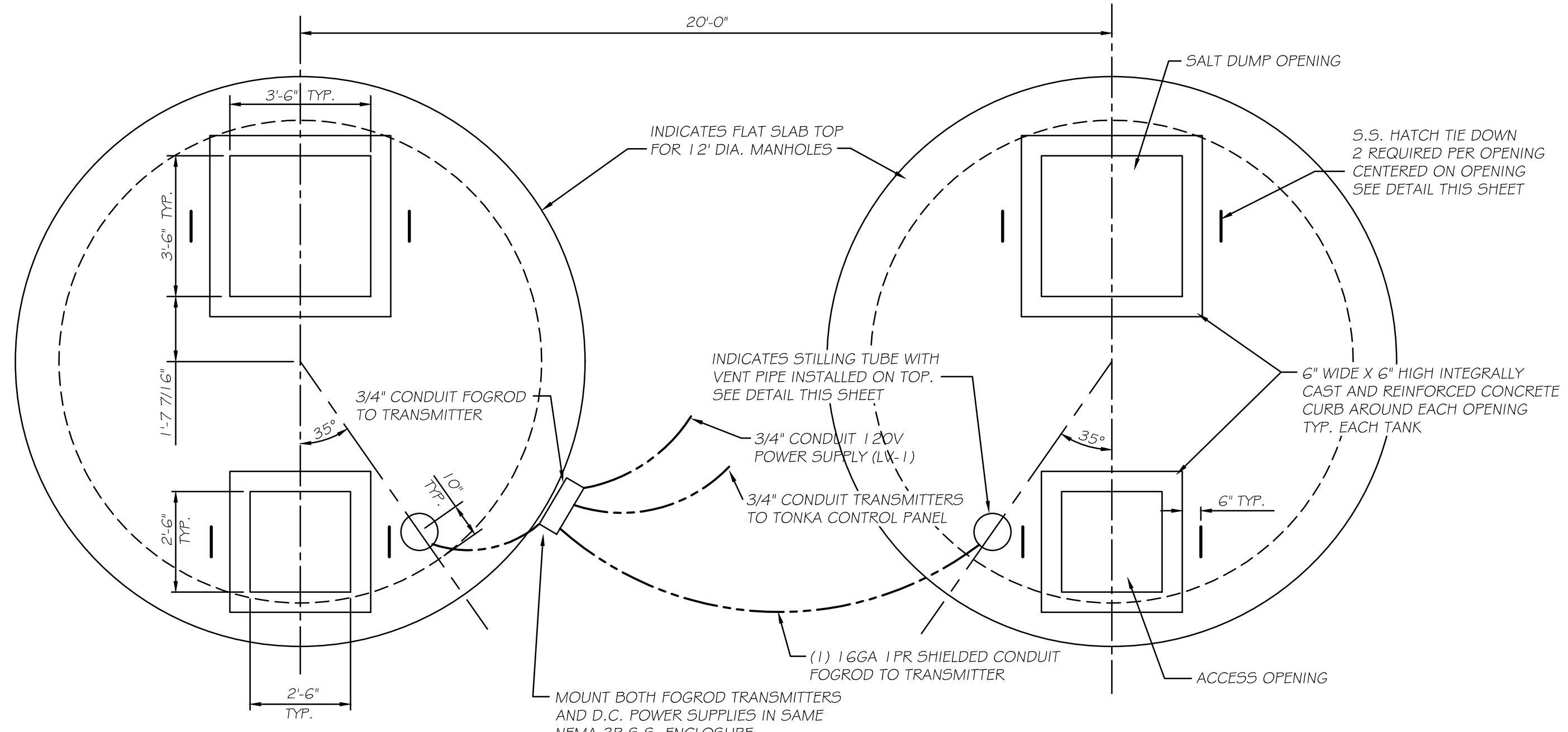
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

AERATION TANK
LAYOUT AND STAIR DETAILS

BIDDING PLANS

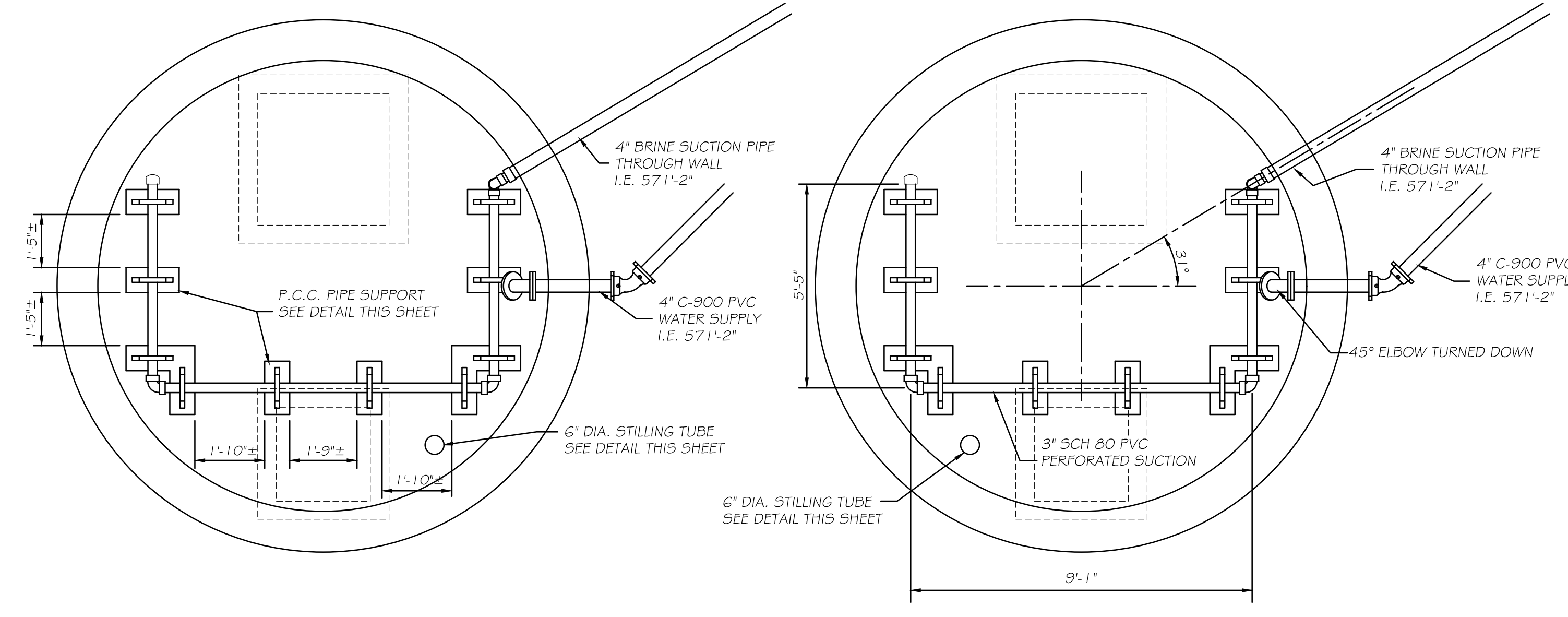
CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED SHEET 13
 FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
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 Plotted On: Friday, February 6, 2026 3:20:38 PM by Jonathan Covert



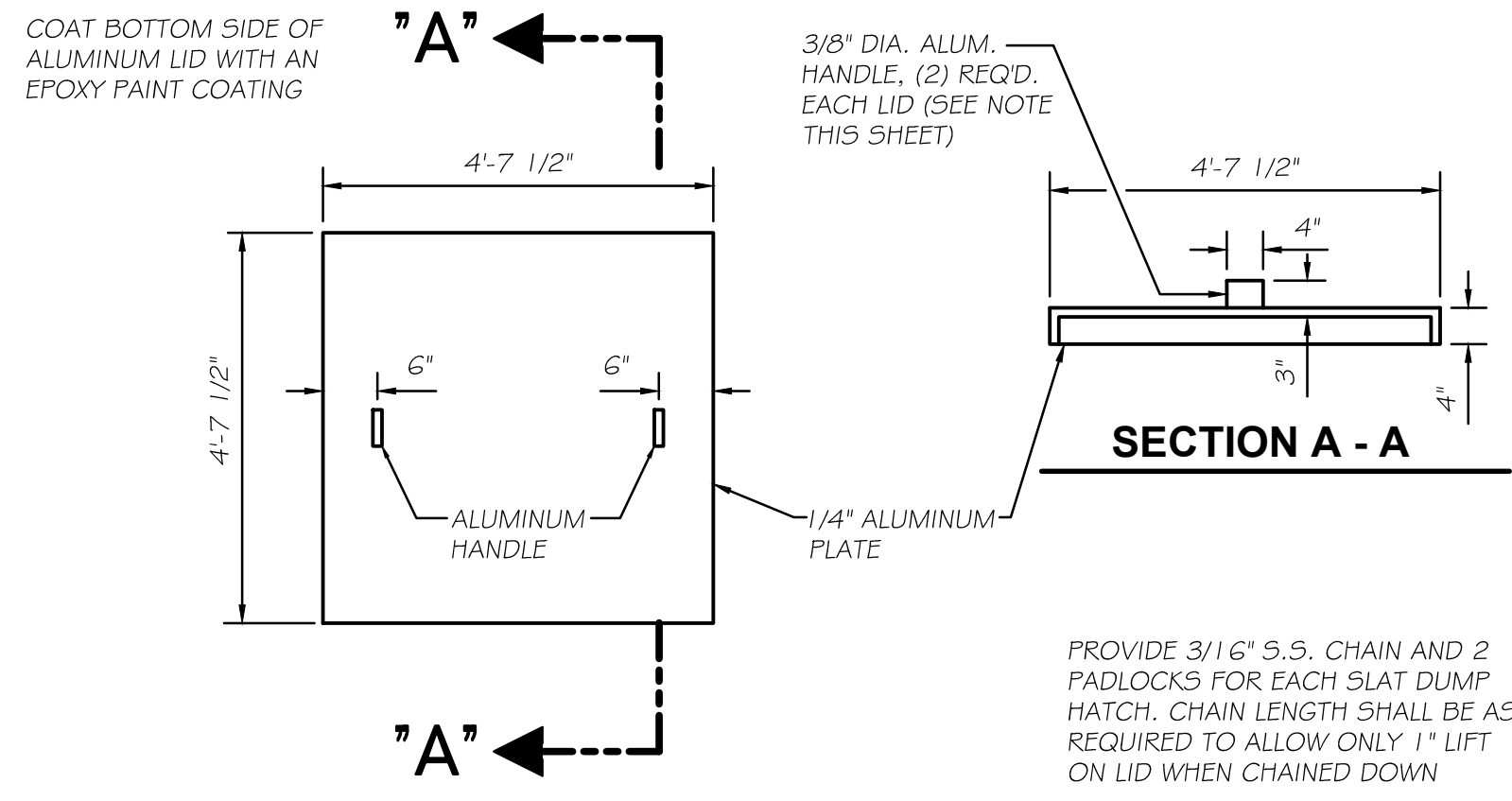
BRINE TANK No. 1

BRINE TANK No. 2

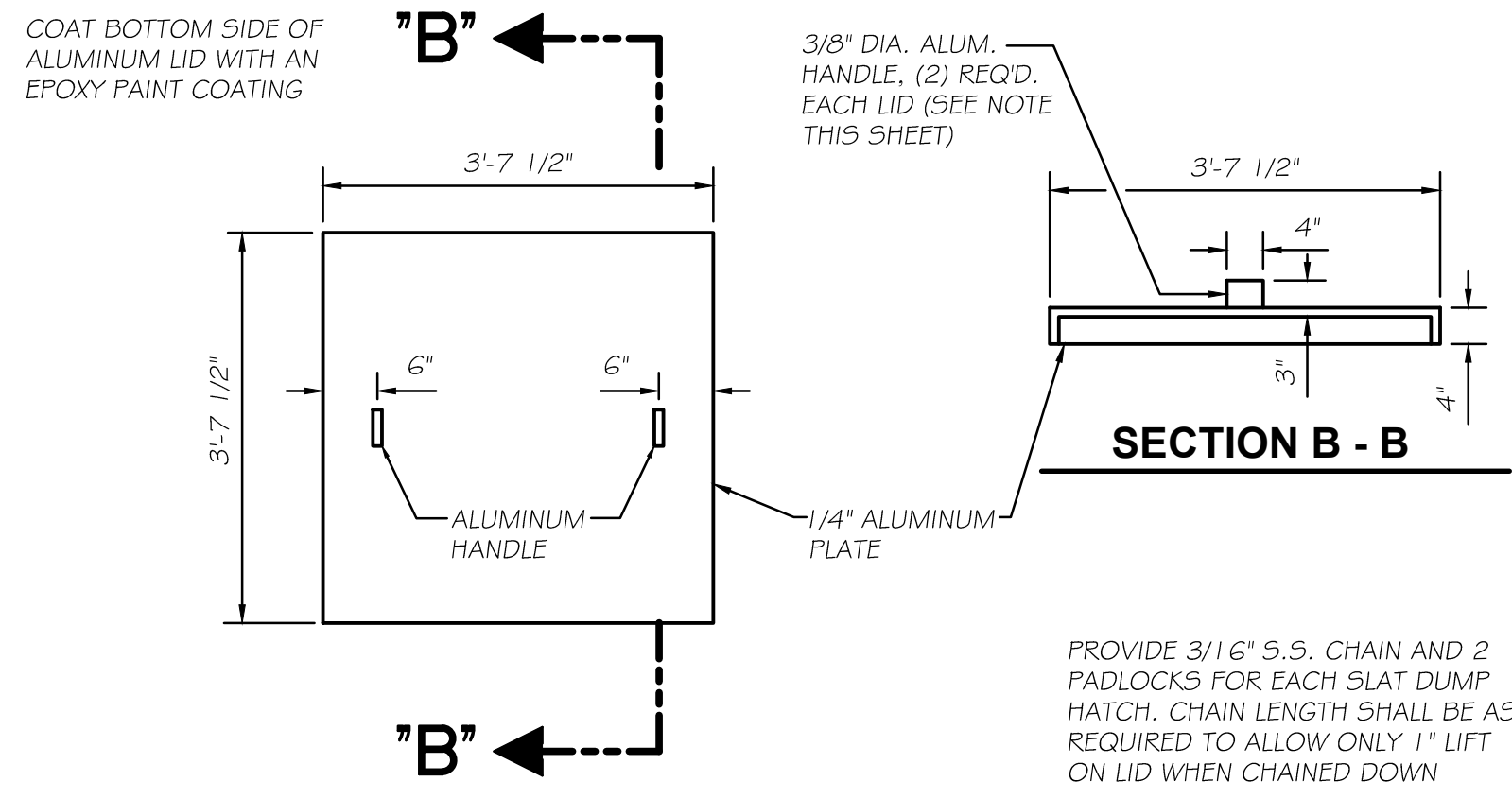


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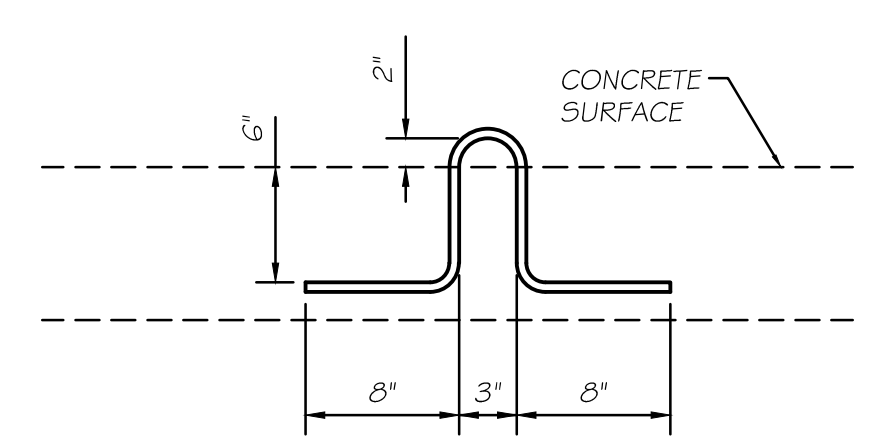
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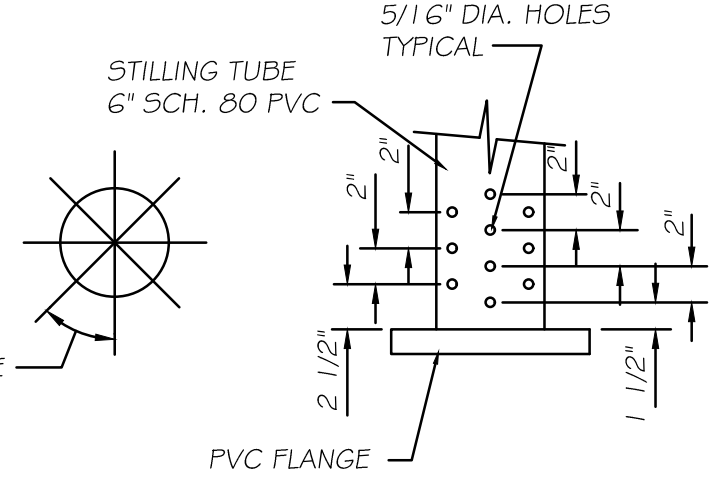
ALUMINUM SALT DUMP HATCH LID



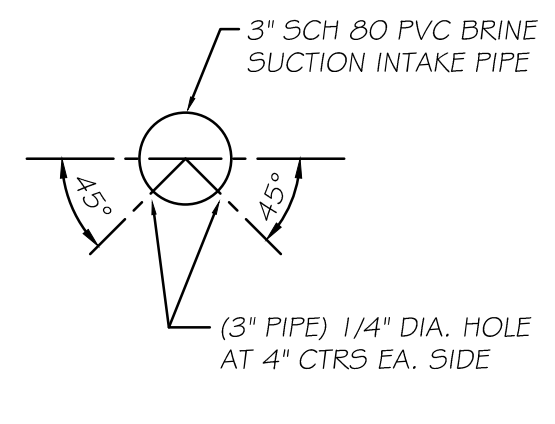
ALUMINUM ACCESS HATCH LID



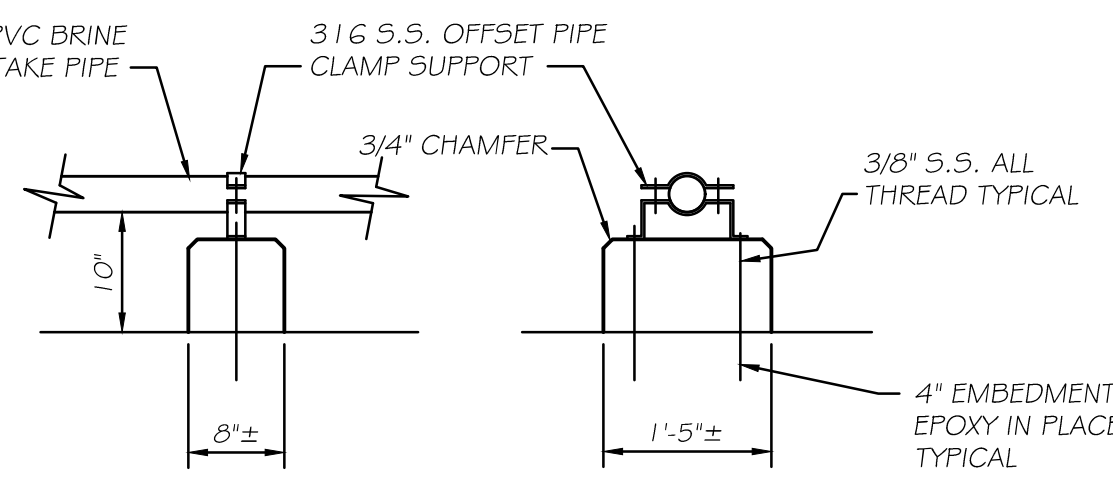
TIE DOWN DETAIL



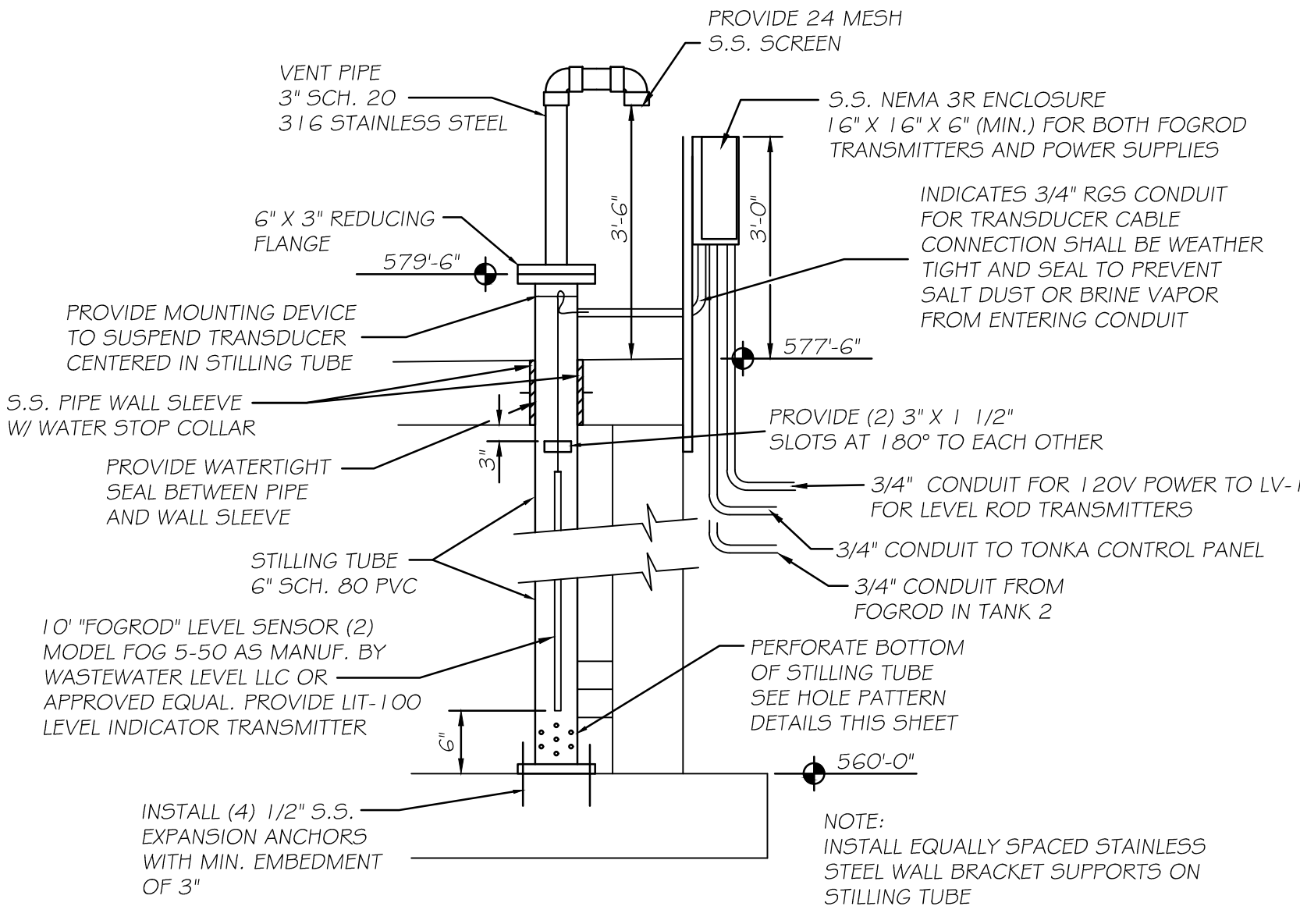
PVC STILLING TUBE HOLE PATTERN DETAILS
N.T.S.



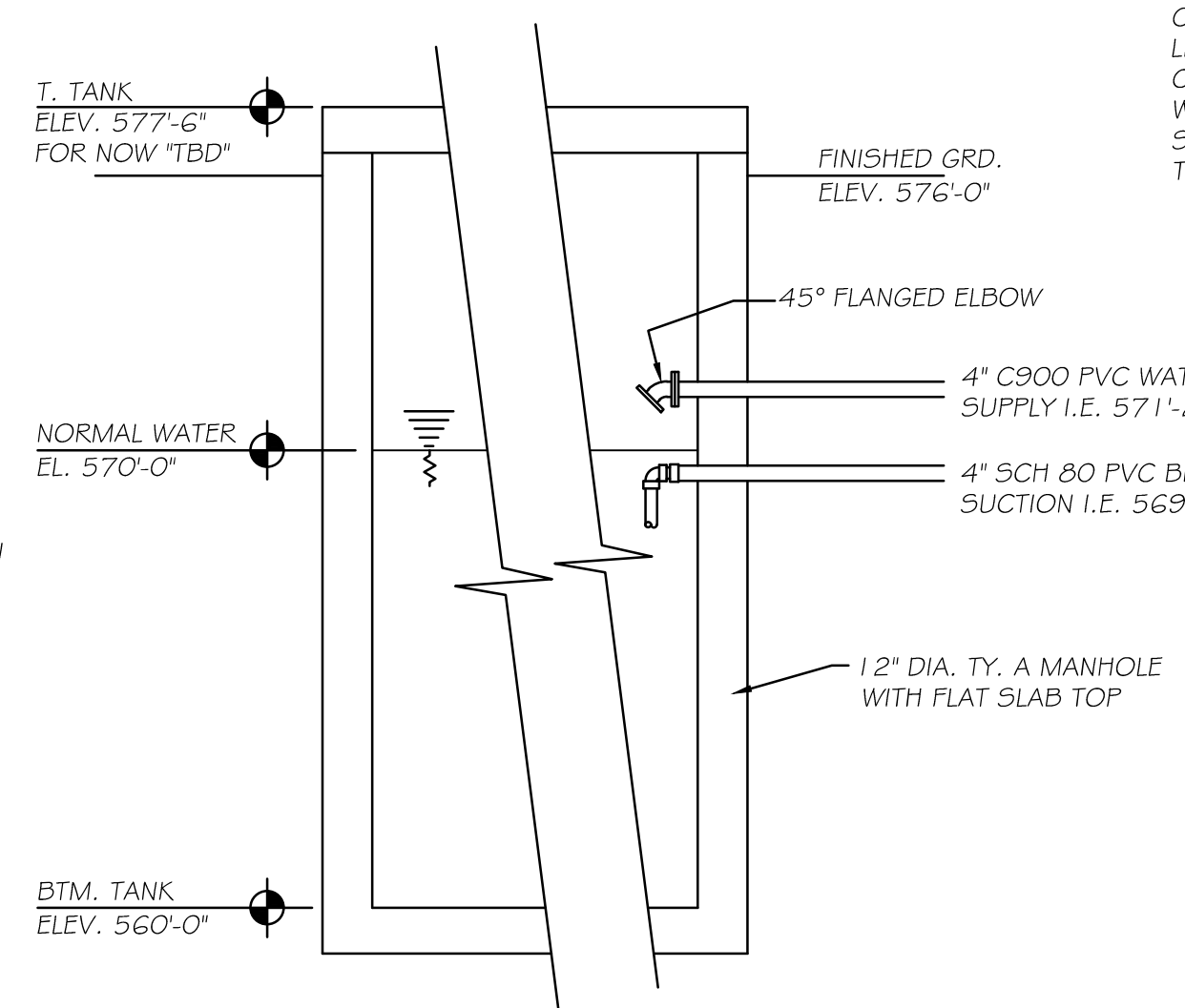
TYPICAL HOLE PATTERN LAYOUT FOR SUCTION HEADERS
N.T.S.



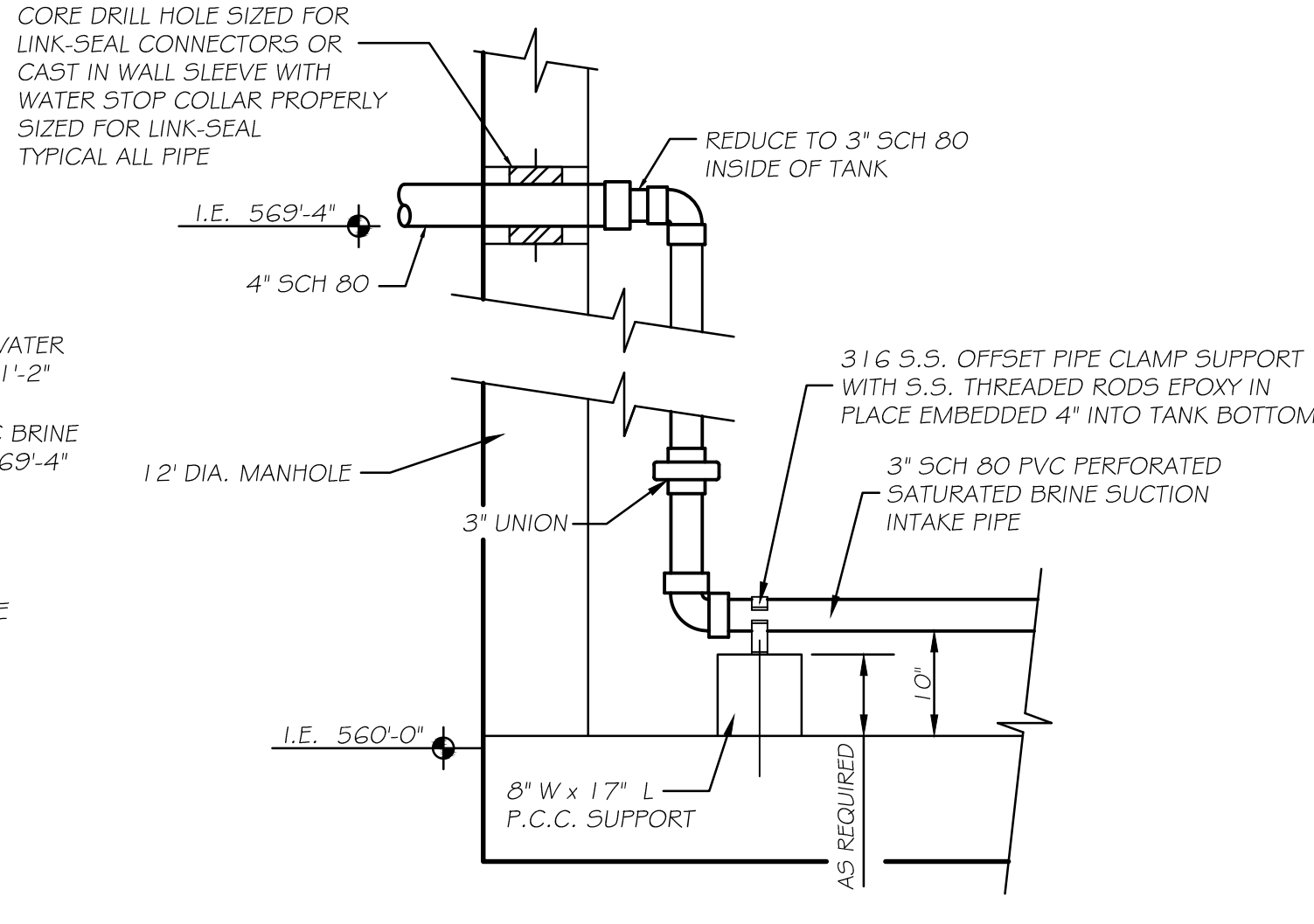
SATURATED BRINE SUPPLY PIPE DETAIL
N.T.S.



TYPICAL STILLING WELL TUBE AND VENT PIPE DETAIL
N.T.S.



BRINE TANKS ELEVATIONS
N.T.S.



SATURATED BRINE SUPPLY PIPE DETAIL
N.T.S.

DRAWN BY: JJC	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: RTB				
DATE: 06/2024				

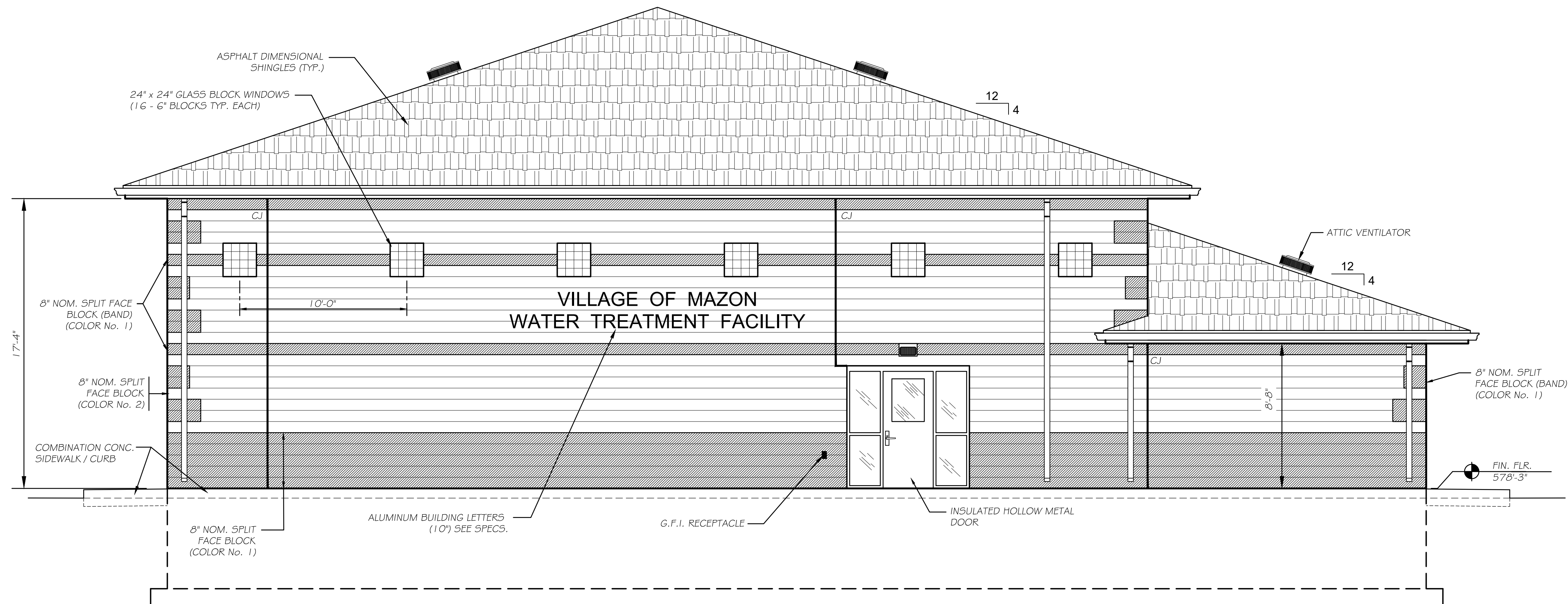
PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

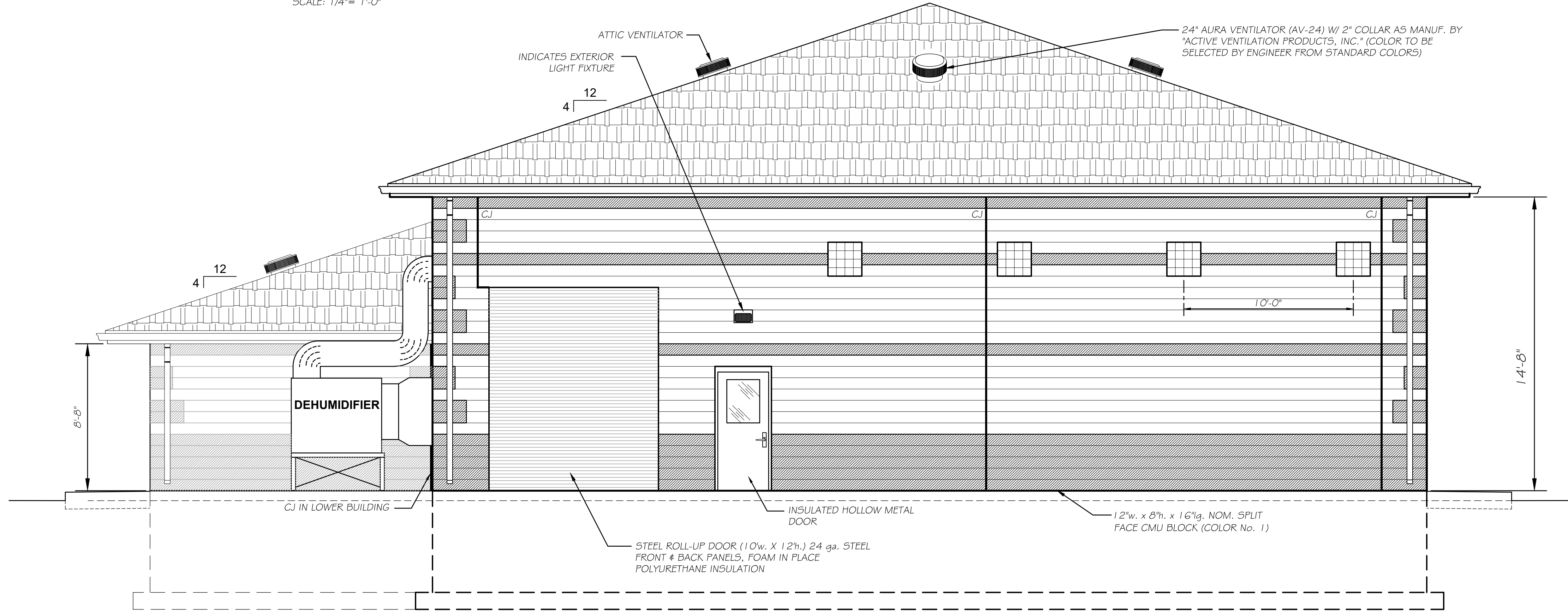
BRINE TANKS
PLAN AND DETAILS

BIDDING PLANS
 CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED SHEET 14
 FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\j\9316-02-Mazon-New Water Treatment Plant\CAD\015-WTP Building-North and South Elevations.dwg
 Last Modified: Friday, February 6, 2026 2:43:38 PM
 Plotted On: Friday, February 6, 2026 3:21:59 PM
 by: Jonathan Covert



NORTH ELEVATION
SCALE: 1/4" = 1'-0"



SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

CJ = CONTROL JOINT

- NOTES**
1. THE MASONRY CONTRACTOR SHALL INSTALL STANDARD CMU BEHIND EXTERIOR LIGHT FIXTURES TO ALLOW FIXTURE BASE TO BE INSTALLED FLUSH TO WALL. COLOR OF CMU SHALL MATCH ADJACENT TO SPLIT FACE. MATCH MORTAR COLOR WITH EACH BLOCK COLOR USED.
 2. MATCH MORTAR COLOR WITH EACH BLOCK COLOR USED.

DRAWN BY: JJC	REVISIONS			
CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 06/2024				

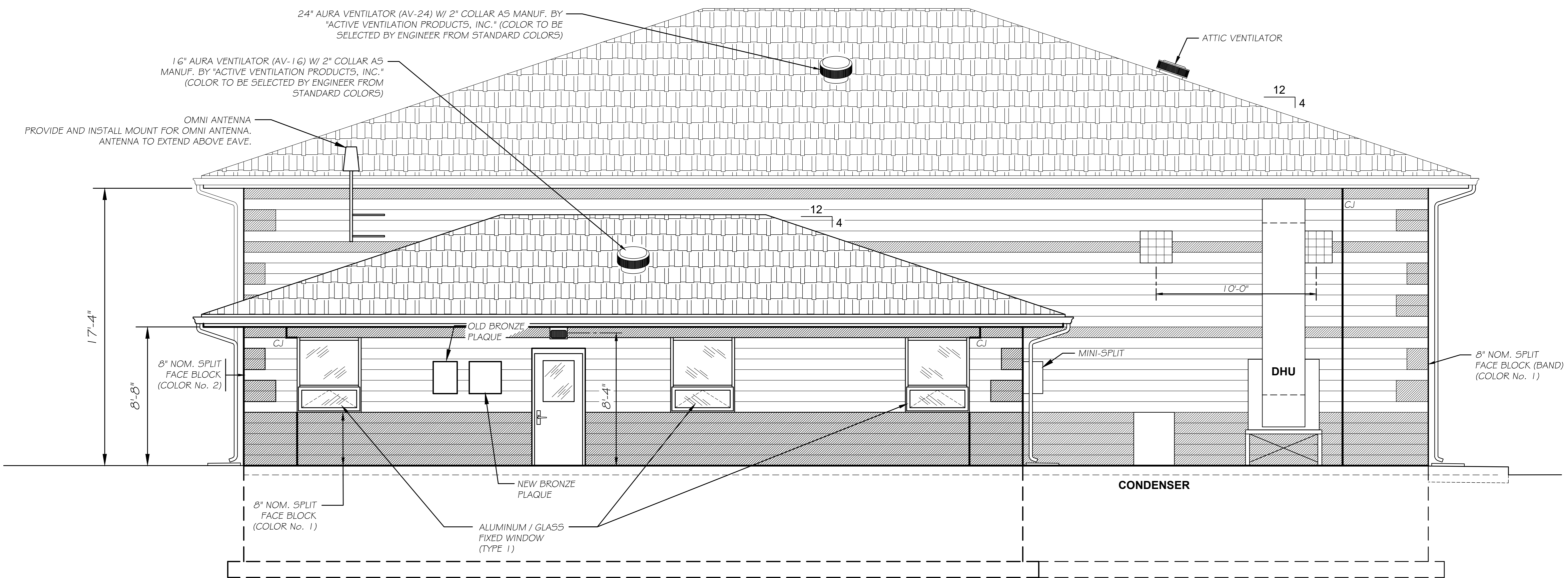

 PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

WTP BUILDING
NORTH AND SOUTH ELEVATIONS

BIDDING PLANS
 CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

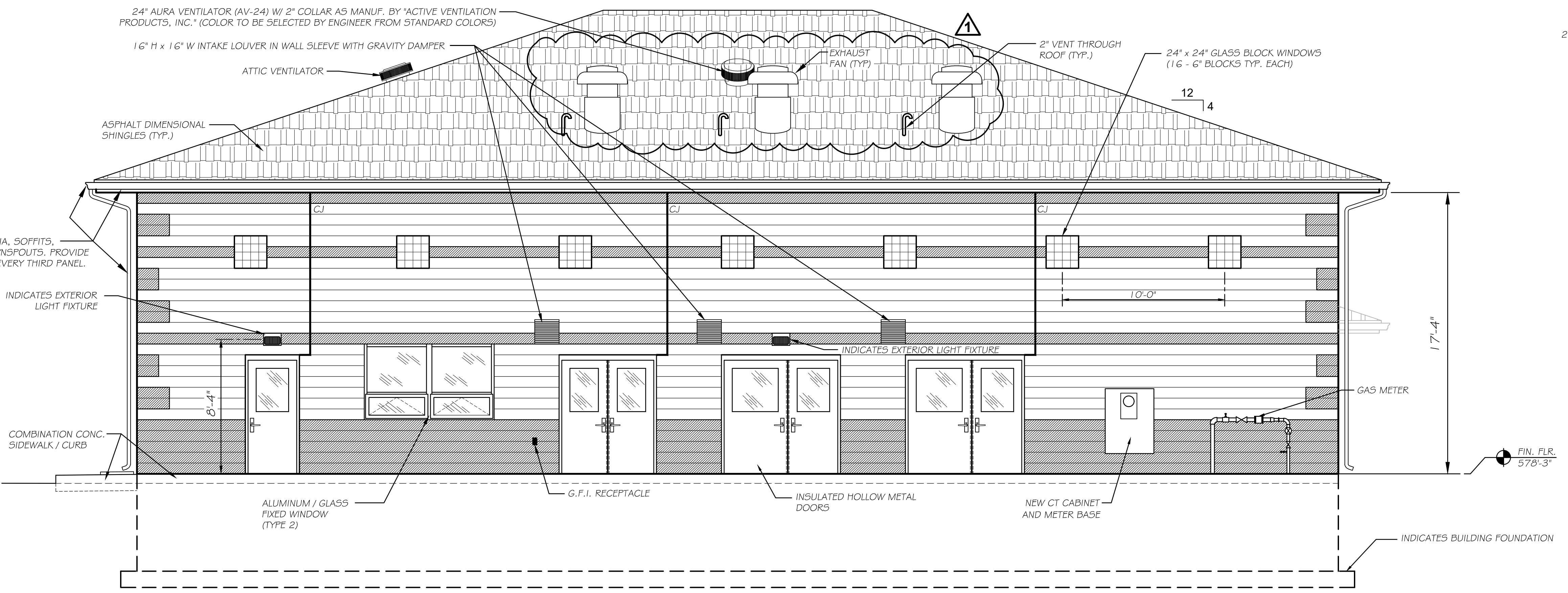
CHAMLIN & ASSOCIATES, INC. © 2026
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 Last Modified: Friday, February 6, 2026 3:23:52 PM
 Plotted On: Wednesday, February 25, 2026 3:25:50 PM by Jonathan Covert



WEST ELEVATION
SCALE: 1/4" = 1'-0"

CJ = CONTROL JOINT

- NOTES
1. THE MASONRY CONTRACTOR SHALL INSTALL STANDARD CMU BEHIND EXTERIOR LIGHT FIXTURES TO ALLOW FIXTURE BASE TO BE INSTALLED FLUSH TO WALL. COLOR OF CMU SHALL MATCH ADJACENT TO SPLIT FACE.
 2. MATCH MORTAR COLOR WITH EACH BLOCK COLOR USED.



EAST ELEVATION
SCALE: 1/4" = 1'-0"

DRAWN BY: JJC	REVISIONS	
CHECKED BY: RTB	LEVEL	DESCRIPTION
DATE: 06/2024	1	ADDENDUM No. 2
	BY	DATE
	JJC	02/25/26

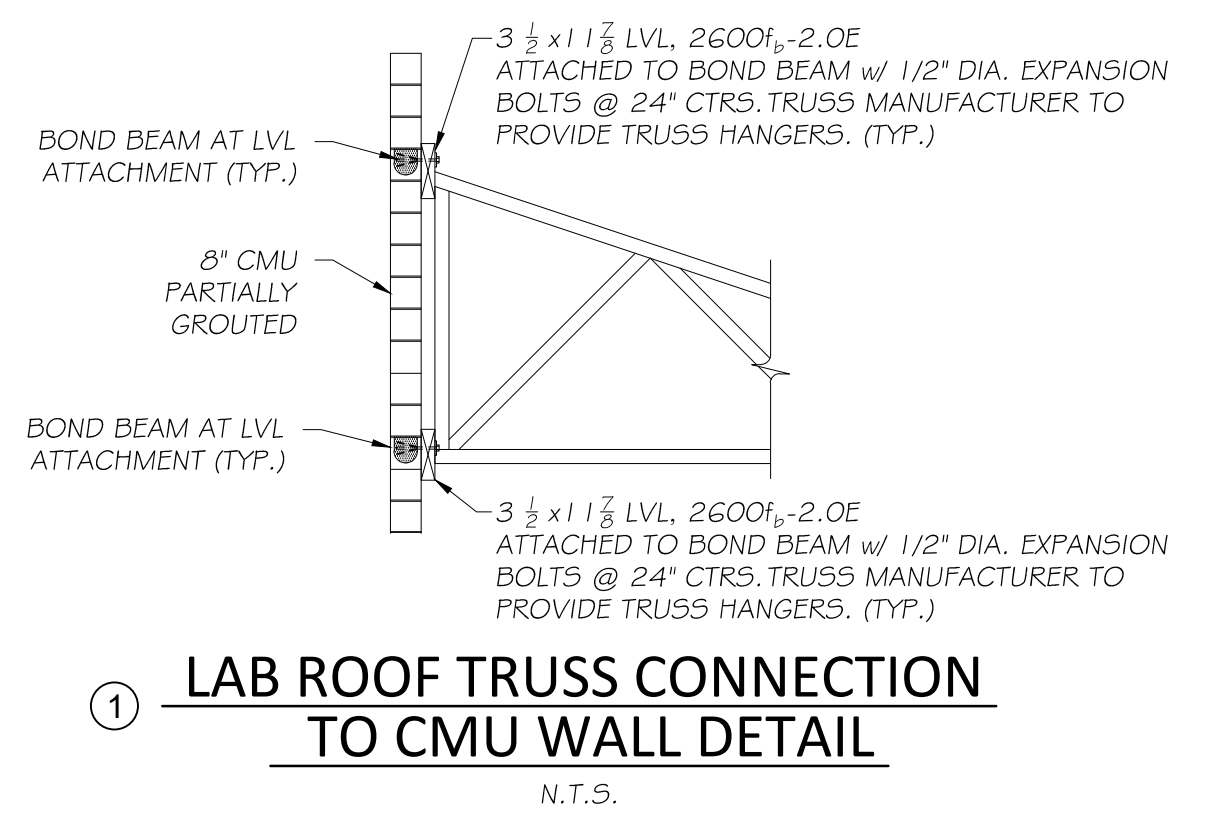
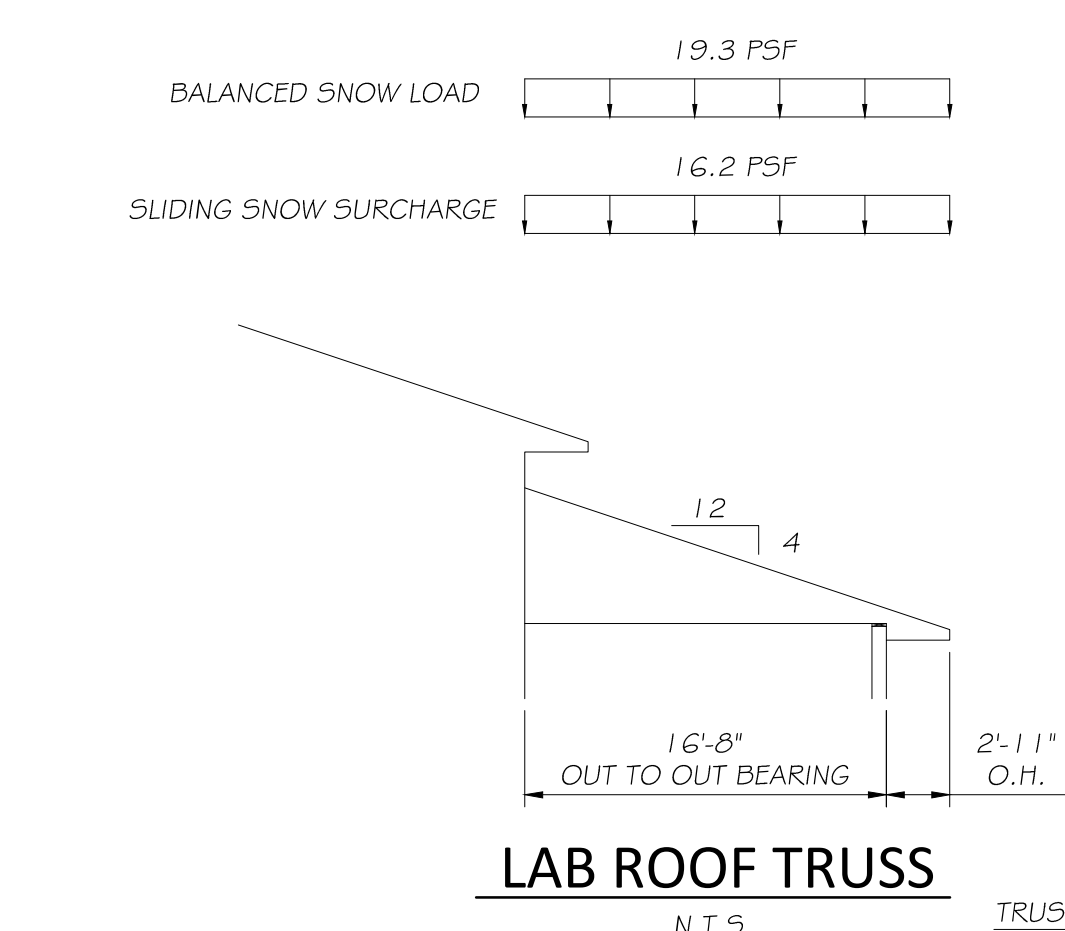
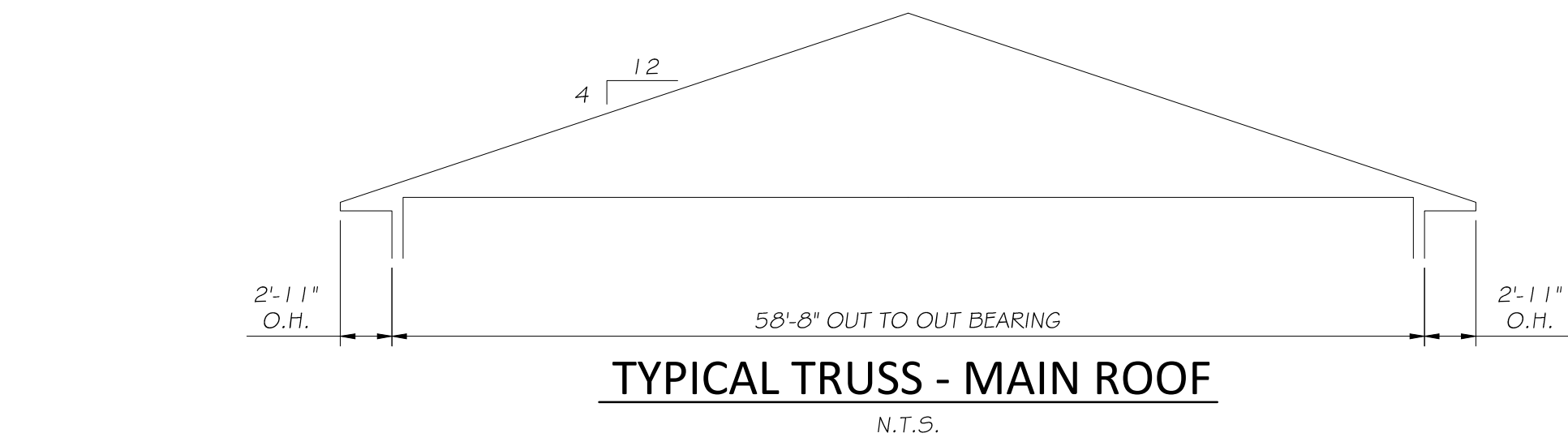
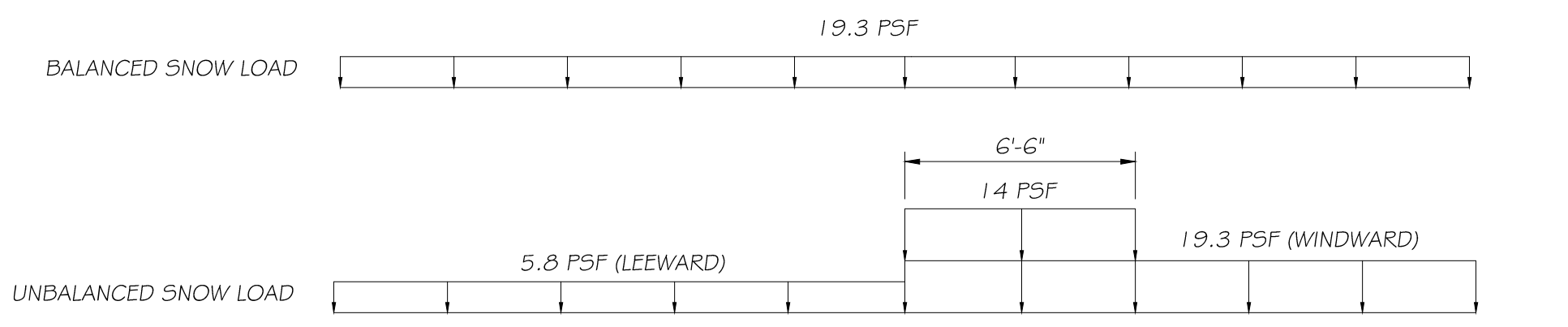

 PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

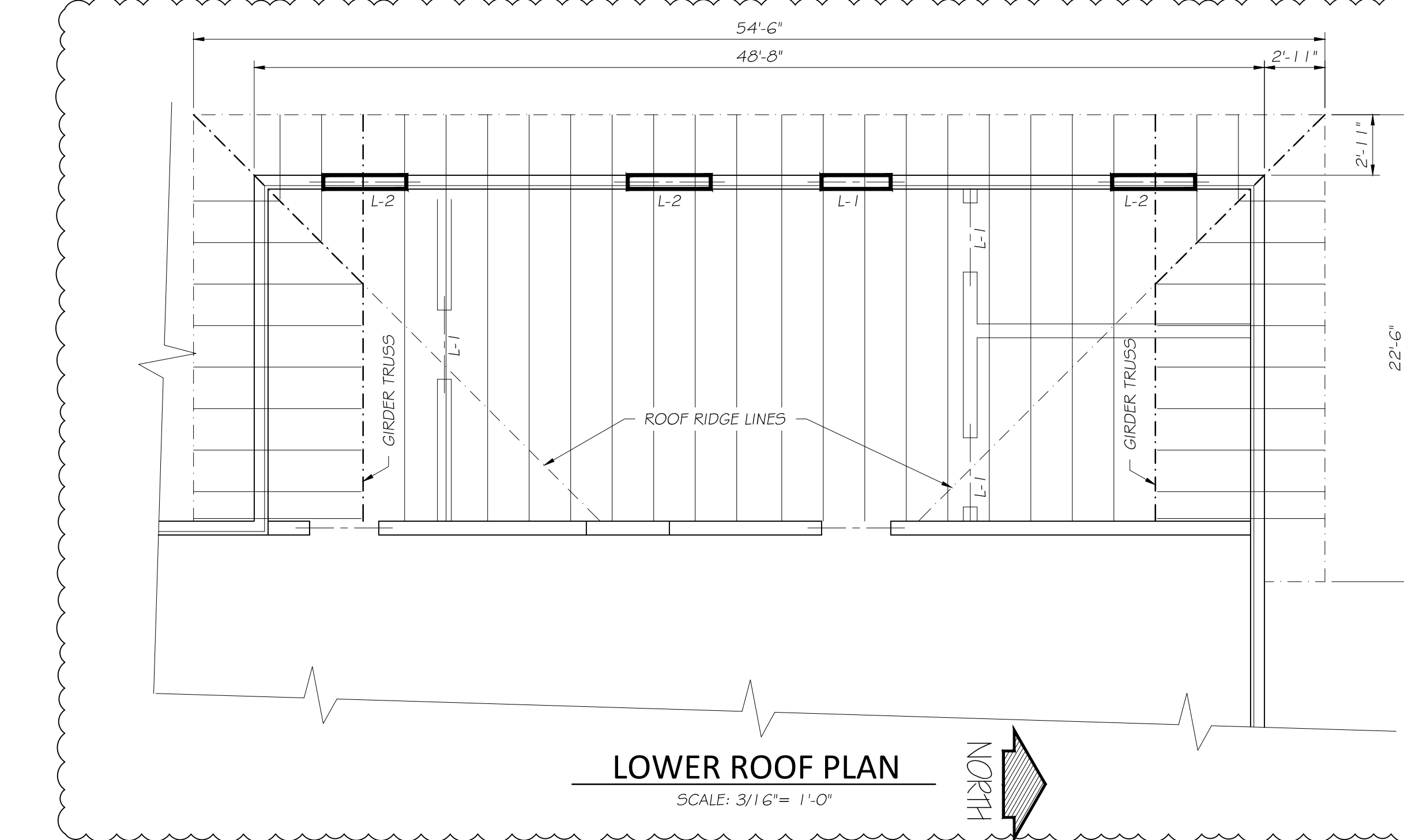
WTP BUILDING
EAST AND WEST ELEVATIONS

BIDDING PLANS

CURRENT AS OF: 02/06/2026	SHEET 16
SCALE: AS NOTED	OF 55
FILE NO.: 9936.02	Y-



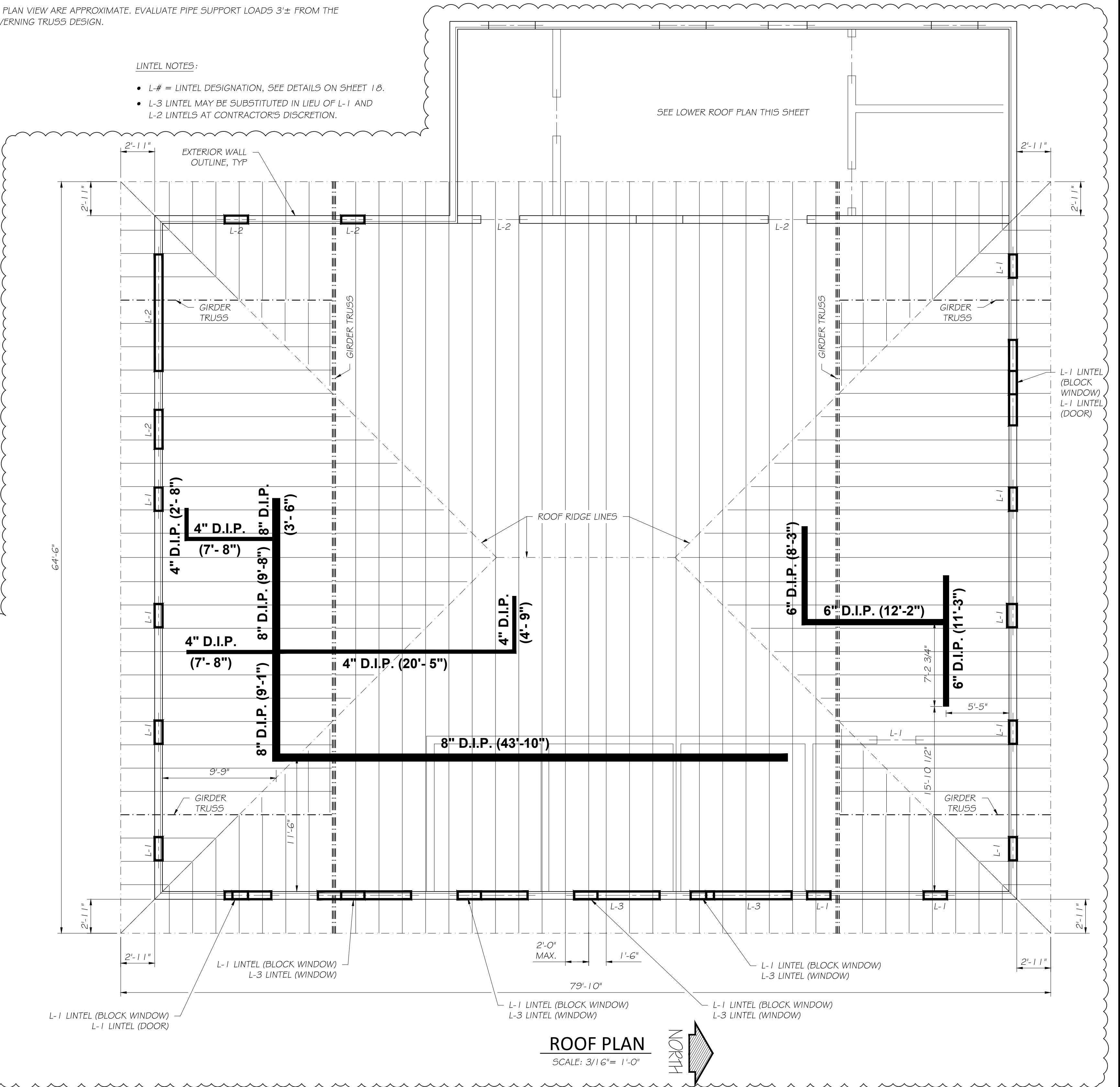
TRUSS NOTES:
DESIGN LOADS: SNOW: AS SHOWN
LIVE: 30 PSF TOP CHORD
DEAD: 15 PSF TOP CHORD, 10 PSF BOTTOM CHORD
WIND: MWFRS ± 16 PSF, C4C PER ASCE 7-16 USING qh=25.5 PSF
TRUSSES SHALL BE DESIGNED AND SEALED BY ILLINOIS LICENSED STRUCTURAL ENGINEER.
PROVIDE TRUSS BRACING AS RECOMMENDED BY MANUFACTURER.
COORDINATE ALL MECHANICAL OPENINGS AND ROOF VENTS WITH MECHANICAL SHEETS.



DUCTILE IRON PIPING LOADS	
NOMINAL PIPE SIZE	UNIFORM LINE LOAD (LBS/FT)
4" D.I.P.	20.3
6" D.I.P.	35.3
8" D.I.P.	54.5

NOTES:
• TRUSS MANUFACTURER SHALL USE THE ABOVE UNIFORM PIPE LOADS TO DETERMINE REQUIRED DISCRETE BOTTOM CHORD POINT LOADS BASED ON FINAL TRUSS LAYOUT.
• PIPE CENTERLINES DEPICTED ON PLAN VIEW ARE APPROXIMATE. EVALUATE PIPE SUPPORT LOADS 3"± FROM THE INDICATED CENTERLINE FOR GOVERNING TRUSS DESIGN.

LINTEL NOTES:
• L-# = LINTEL DESIGNATION, SEE DETAILS ON SHEET 18.
• L-3 LINTEL MAY BE SUBSTITUTED IN LIEU OF L-1 AND L-2 LINTELS AT CONTRACTOR'S DISCRETION.






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Drawing Name: G:\Users\jw\OneDrive - Chamlin & Associates, Inc.\Desktop\2026\New Water Treatment Plant\CAD\017-WTP BUILDING ROOF PLAN.dwg
Last Modified: Wednesday, March 4, 2026 11:53:01 PM
Printed On: Wednesday, March 4, 2026 11:53:01 PM
by: josh.waskowicz

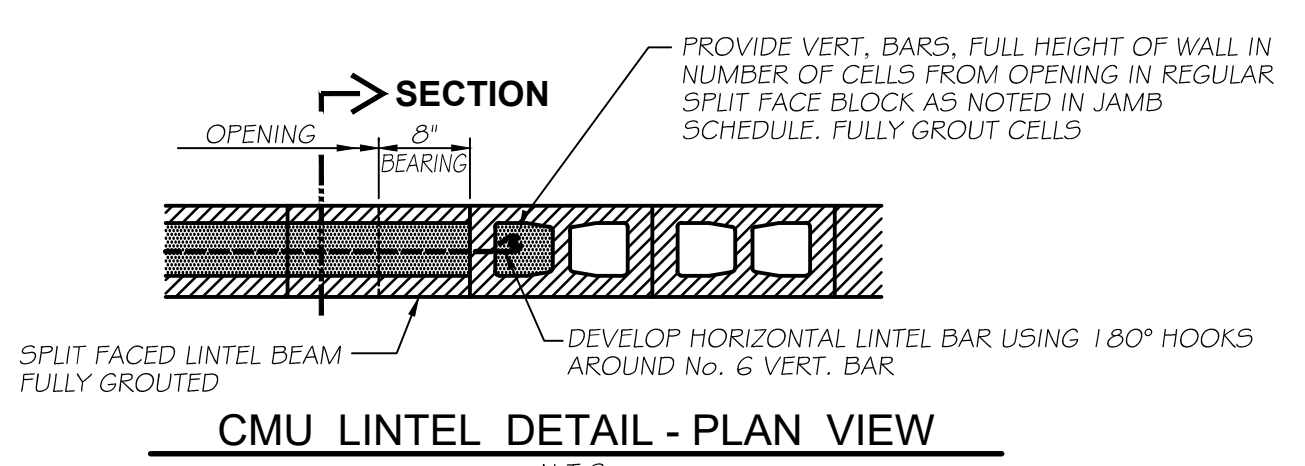
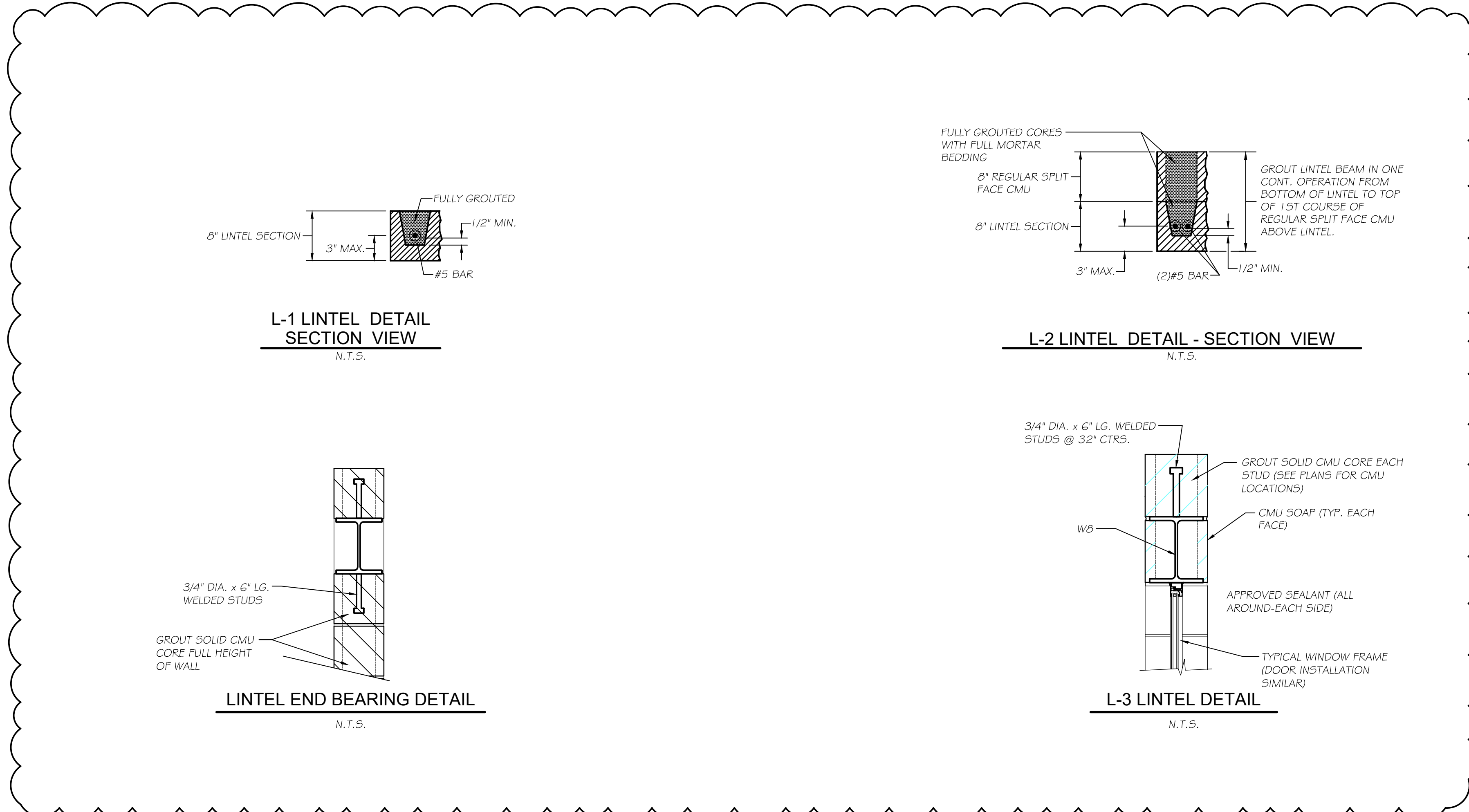
DRAWN BY: JJC CHECKED BY: RTB DATE: 06/2024	<table border="1"> <thead> <tr> <th>LEVEL</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DS</td> <td>02/18/2026</td> <td>ADDITION OF DUCTILE IRON PIPING LOADS</td> </tr> <tr> <td>2</td> <td>JJW</td> <td>03/02/26</td> <td>ADDENDUM No. 3</td> </tr> </tbody> </table>	LEVEL	BY	DATE	DESCRIPTION	1	DS	02/18/2026	ADDITION OF DUCTILE IRON PIPING LOADS	2	JJW	03/02/26	ADDENDUM No. 3	<p>PERU MORRIS OTTAWA MENDOTA ILLINOIS</p>	<p>VILLAGE OF MAZON NEW WATER TREATMENT PLANT 2026</p>	<p>WTP BUILDING ROOF PLAN</p>	<p>BIDDING PLANS</p>	CURRENT AS OF: 03/02/2026 SCALE: AS NOTED FILE NO.: 9936.02 Y- OF 55
LEVEL	BY	DATE	DESCRIPTION															
1	DS	02/18/2026	ADDITION OF DUCTILE IRON PIPING LOADS															
2	JJW	03/02/26	ADDENDUM No. 3															

CONCRETE MASONRY UNITS:

- CMU SHALL BE NORMAL WEIGHT STANDARD BLOCK UNITS AS PRODUCED BY "ECHELON MASONRY" OR APPROVED EQUAL. CMU'S SHALL CONFORM TO ASTM C-90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2,000 psi. UNITS SHALL INCLUDE "DRY BLOCK" WATER REPELLANT, MAX. ABSORPTION OF (7.5%). MORTAR SHALL MATCH BLOCK COLOR AND CONFORM TO ASTM C-270, TYPE M. CONCRETE MASONRY COMPRESSIVE STRENGTH (Fm) SHALL NOT BE LESS THAN 2,000 psi AS DETERMINED BY THE UNIT STRENGTH METHOD.
- PLACE "HOHMANN & BARNARD" 220 LADDER MESH CMU REINFORCING EVERY SECOND BLOCK COURSE. SIDE RODS & CROSS RODS SHALL BE 9 GAUGE WIRE. MINIMUM LAP LENGTH FOR HORIZONTAL SIDE RODS = 12".
- FINISHES:
ALL INTERIOR CMU WALLS SHALL BE PAINTED AS DESCRIBED IN THE SPECIFICATIONS. PROVIDE BLOCKFILL PRIOR TO FINAL PAINT FINISH.
- PROVIDE SOLID, FLUSH, FINISHED END BLOCKS AT ALL VISIBLE MASONRY OPENINGS (WINDOW AND DOOR JAMBS). NO VERTICAL JOINTS OR CUT BLOCKS SHALL BE ACCEPTED.
- GROUT FOR MASONRY SHALL CONFORM TO ASTM C476 AND TMS602-1G WITH MINIMUM COMPRESSIVE STRENGTH OF 2,000 psi.
- PROVIDE SOLID GROUTED CMU BLOCK CORES WITH #5 BARS FULL HEIGHT OF WALL (UNLESS NOTED OTHERWISE), AT 24" CENTERS MEASURED ALONG LENGTH OF WALL PLUS: ON EACH SIDE OF DOOR, WINDOW, OR LOUVER OPENINGS AS WELL AS EACH BUILDING CORNER CORE AND EACH SIDE OF CONTROL JOINT. ALSO SEE ADDITIONAL REINFORCING REQUIREMENTS IN LINTEL DETAILS. PROVIDE CENTERING DEVICE IN CELLS OF CMU TO RECEIVE VERTICAL BARS TO BE SURE BARS REMAIN CENTERED IN THE WALL CORES ("HOHMANN & BARNARD" RB REBAR POSITIONER OR EQUAL).

JAMB SCHEDULE	
CLEAR OPENING	REMARKS
3'-4" OR LESS	ON EACH SIDE OF OPENING, PROVIDE (1) SOLID GROUTED CMU BLOCK CORE WITH #6 BAR (CENTERED) FULL HEIGHT OF WALL.
4'-0" TO 7'-4"	ON EACH SIDE OF OPENING, PROVIDE (2) SOLID GROUTED CMU BLOCK CORES WITH #6 BARS (CENTERED) FULL HEIGHT OF WALL.
8'-0" TO 10'-0"	ON EACH SIDE OF OPENING, PROVIDE (3) SOLID GROUTED CMU BLOCK CORES WITH #6 BARS (CENTERED) FULL HEIGHT OF WALL.

LINTEL SCHEDULE						
NUMBER	MATERIAL	TYPE	BEARING	MASONRY OPENING	LENGTH	REMARKS
L-1	8" CONC. LINTEL BEAM W/ 1 - #5 BAR		8" (MIN.)	VARIES	VARIES	SEE DETAIL L-1 ON THIS SHEET
L-2	16" CONC. LINTEL BEAM W/ 2 - #5 BAR		8" (MIN.)	VARIES	VARIES	SEE DETAIL L-2 ON THIS SHEET
L-3	W8 x 28 W/ 3/4" DIA. x 6" LG. WELDED STUDS @ 32" CTRS.		8" (MIN.)	VARIES	VARIES	STEEL SECTION SHALL CONFORM TO ASTM A992 FULLY GROUT CMU CELLS BELOW END BEARING (SEE DETAILS THIS SHEET)



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Drawing Name: G:\Users\jw\OneDrive - Chamlin & Associates\Documents\2026\2026-03-03\2026-03-03-02-Mazon-New Water Treatment Plant\CAD\018-WTP BUILDING STRUCTURAL NOTES AND DETAILS.dwg
Last Modified: Tuesday, March 10, 2026 9:49:49 AM
Plotted On: Tuesday, March 10, 2026 9:49:57 AM
by Josh Washkewicz

- DESIGN CRITERIA:**
- DESIGN CODES:
 - IBC 2021
 - DESIGN LOADS: ASCE 7-16
 - CONCRETE DESIGN: ACI 318-19
 - IMPORTANCE CATEGORY III
 - ALLOWABLE BEARING PRESSURE OF 2,000 PSF USED FOR FOUNDATION DESIGN PER GEOTECHNICAL REPORT BY CHAMLIN # ASSOCIATES, INC., DATED JANUARY 6, 2026.

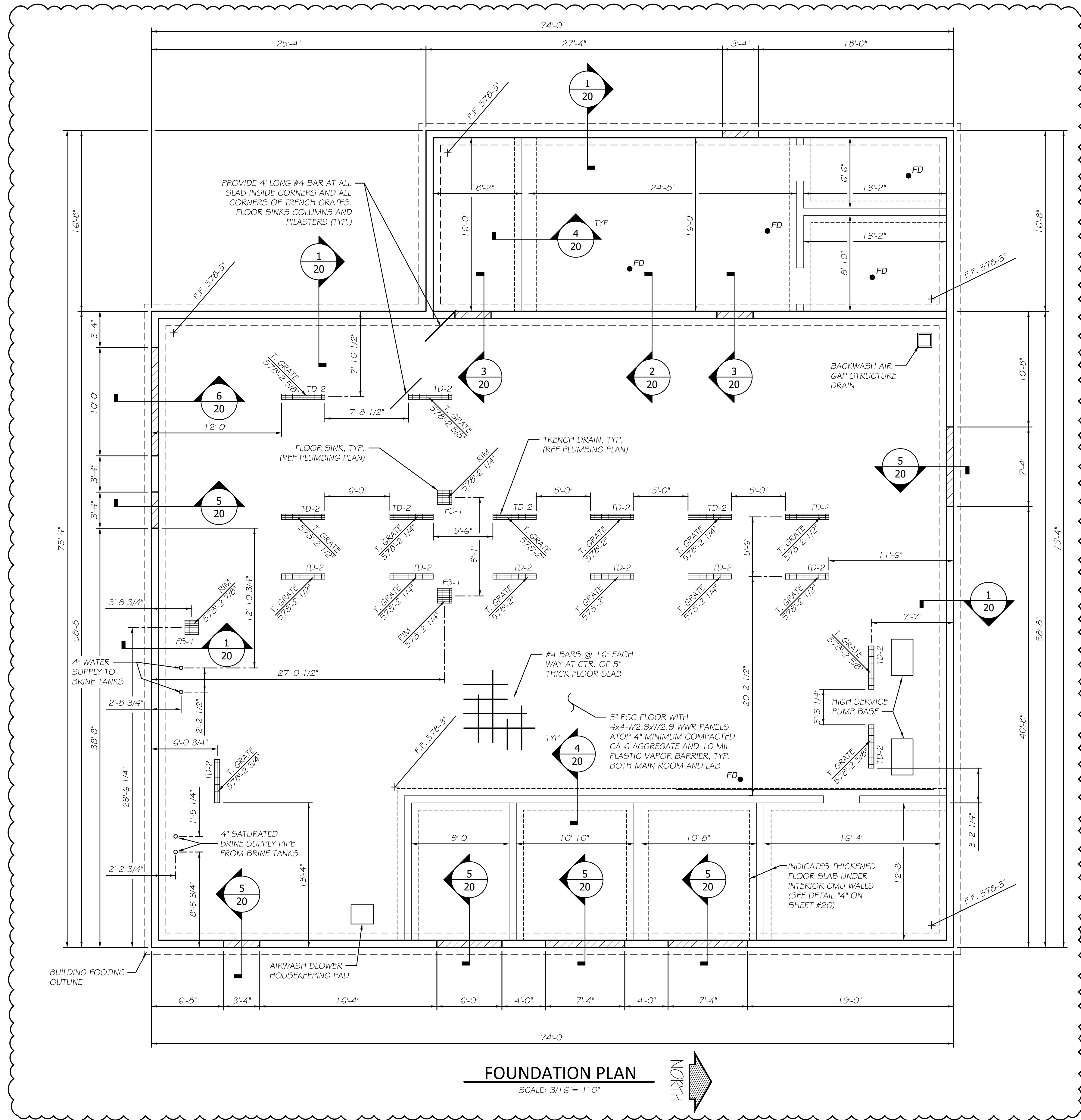
- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS ONLY. COORDINATE WITH ENGINEER FOR DIMENSIONS NOT SHOWN.
 - CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - MAJOR DETAILS HAVE BEEN SHOWN ON THESE DRAWINGS. MINOR DETAILS ARE TO BE WORKED OUT IN THE FIELD.
 - STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ELECTRICAL AND MECHANICAL DETAILS.
 - CONTRACTOR SHALL PROTECT ALL EXISTING CONDITIONS NOT SPECIFIED FOR DEMOLITION OR MODIFICATION. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE OWNER.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, EXCAVATIONS, TEMPORARY SHORING AND BRACING.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE LAWS, REGULATIONS AND PERMIT REQUIREMENTS.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS TO CONSTRUCT IMPROVEMENTS.
 - INSTALL SPECIFIED PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - ELEVATIONS ARE BASED ON FLOOR ELEVATION OF (+100.0') WHICH IS EQUIVALENT TO CIVIL ELEVATION 578.25.

- EARTHWORK NOTES:**
- SOIL PROPERTIES PER GEOTECHNICAL REPORT:
 - ALLOWABLE SOIL BEARING PRESSURE: 2,000 PSF
 - SOIL SUBGRADE MODULUS: 125 PSMIN (FC)
 - COEFFICIENT OF FRICTION USED FOR DESIGN:
 - 0.45 FOR CONCRETE ON COMPACTED AGGREGATE (UNFACTORED)
 - ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED.
 - CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER AND GROUND WATER.
 - EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, UTILITIES, ETC.
 - ALL FOOTINGS SHALL BE PLACED ON FIRM UNDISTURBED SOIL, OR CONTROLLED COMPACTED CA-OG FILL (CA-1 I IF WATER PRESENT), REMOVING ANY EXISTING FILL OR UNSUITABLE SOILS ENCOUNTERED IN FIELD AND AS INSTRUCTED BY GEOTECHNICAL FIELD TECHNICIAN.
 - PRIOR TO CONCRETE REINFORCEMENT PLACEMENT, FOUNDATION SUBGRADE SHALL BE INSPECTED BY QUALIFIED GEOTECHNICAL FIELD TECHNICIAN TO VERIFY FIELD CONDITIONS.
 - FOOTING ELEVATIONS SHOWN ON DRAWINGS SHALL NOT BE VARIED IN THE FIELD WITHOUT PRIOR WRITTEN CONSENT FROM THE ENGINEER.
 - ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREAS SHALL BE MECHANICALLY COMPACTED IN 8" MAX LIFTS TO AT LEAST 95% OF MAXIMUM DRY DENSITY BASED ON ASTM D-698 (STANDARD PROCTOR).
 - ALL UNACCEPTABLE MATERIAL AND ORGANIC MATERIAL SHALL BE REMOVED FROM BELOW ALL PROPOSED SLABS-ON-GRADE. THE EXPOSED NATURAL SOIL SHALL BE PROOF-ROLLED WITH GEOTECHNICAL FIELD TECHNICIAN ON SITE TO WITNESS.
 - TOPSOIL REMOVED FROM BUILDING AREAS SHALL BE STOCKPILED FOR RE-SPREADING AROUND PROPOSED STRUCTURES.

- STEEL NOTES:**
- NEW STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - ANGLES: ASTM A36
 - WIDE FLANGES: ASTM A992
 - FLATES: ASTM A572
 - HEADED STUDS: ASTM A108, TY B
 - ANCHOR BOLTS: ASTM A1554 GR 36
 - HEAVY HEX NUTS: ASTM A563
 - WASHERS: ASTM F436
 - WELDS: AWS D1.1, 70 KSI YIELD STRENGTH
 - ALL STEEL SHALL BE HOT-DIPPED GALVANIZED.

- CAST-IN-PLACE CONCRETE NOTES:**
- CONCRETE SHALL BE READY-MIXED AND CONFORM TO THE FOLLOWING:
 - CEMENT: ASTM C150 TY I OR II
 - FLY ASH: ASTM C618 TY C OR F
 - FINE AND COARSE AGGREGATE: ASTM C33
 - WATER: POTABLE
 - WATER-REDUCING ADMIXTURE: ASTM C494
 - AIR-ENTRAINING ADMIXTURE: ASTM C260
 - CONCRETE SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
 - REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. AERATION TANK REINFORCEMENT SHALL BE EPOXY COATED.
 - REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH CRSI STANDARDS AND CONCRETE INSTALLED IN ACCORDANCE WITH ACI 301 AND ACI 318.
 - LAP ALL REINFORCEMENT 48 BAR DIAMETERS UNLESS NOTED OTHERWISE ON PLANS.
 - HOT AND COLD WEATHER PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 308R AND ACI 308R, RESPECTIVELY.
 - VERIFY ALLOWABLE BEARING CAPACITY IN FIELD IS AT LEAST 2,000 PSF.
 - MAINTAIN 3" CLEAR COVER AT BOTTOM OF FOOTINGS AND 2" CLEAR COVER AT TOP AND SIDES OF FOOTINGS AND WALLS WITH 2 LAYERS OF REINFORCEMENT.
 - REINFORCEMENT IN SLABS-ON-GROUND SHALL BE CENTERED IN SLAB AND SUSPENDED BY STEEL CHAIRS. ALL REINFORCEMENT SHALL BE TIED.
 - ALL CONSTRUCTION JOINTS SHALL BE CAREFULLY BULKHEADED TO CREATE A STRAIGHT JOINT. DIAMOND DOWEL EMBEDMENT PRODUCT BY PNA CONSTRUCTION TECHNOLOGIES, GLENVIEW, IL, SHALL BE USED AT ALL CONSTRUCTION JOINTS. SLAB REINFORCEMENT SHALL BE TERMINATED AT CONSTRUCTION JOINTS.
 - CURING OF SLABS-ON-GROUND SHALL BE BY METHOD ALLOWED BY IDOT STANDARD SPECIFICATIONS OF ROADS & BRIDGES (ADOPTED 1/1/22) ARTICLE 1020.13.
 - SLABS-ON-GROUND SHALL BE SAWCUT AS SOON AS POSSIBLE USING "SOFT-SAW". MAXIMUM SAWCUT SPACING SHALL BE LIMITED TO 16'. MAXIMUM RATIO OF PANEL WIDTH:LENGTH SHALL BE 1.5:1.
 - MIX DESIGNS:
 - FOOTINGS, FOUNDATION WALLS:
 - IN ACCORDANCE WITH IDOT CLASS 51 MIX DESIGN AND AS NOTED HEREIN:
 - 4,000 PSI 28 DAY COMPRESSIVE STRENGTH (fc)
 - MAXIMUM W/C RATIO 0.44
 - SLUMP 2" - 4" (PRIOR TO ADDITION OF WATER-REDUCING ADMIXTURE)
 - SLUMP 7" MAX (ONLY WITH ADDITION OF WATER-REDUCING ADMIXTURE)
 - AIR ENTRAINMENT: 5% - 8%
 - SLABS-ON-GROUND:
 - IN ACCORDANCE WITH IDOT CLASS 51 MIX DESIGN AND AS NOTED HEREIN:
 - 4,000 PSI 28 DAY COMPRESSIVE STRENGTH (fc)
 - MAXIMUM W/C RATIO 0.44
 - SLUMP 2" - 4" (PRIOR TO ADDITION OF WATER-REDUCING ADMIXTURE)
 - SLUMP 5" MAX (ONLY WITH ADDITION OF WATER-REDUCING ADMIXTURE)
 - AIR ENTRAINMENT: NONE

- SPECIAL INSPECTIONS NOTES:**
- UNLESS NOTED, MATERIALS SHALL CONFORM TO AND TESTS AND INSPECTIONS SHALL BE PERFORMED BY THE APPROVED SPECIAL INSPECTION AGENCY.
 - DUTIES OF THE INSPECTION AGENCY PER 2021 IBC CHAPTER 17:
 - SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER AND BUILDING OFFICIAL FOR REVIEW AND APPROVAL AT LEAST TWO WEEK PRIOR TO COMMENCEMENT OF WORK.
 - PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
 - FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
 - SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
 - CONTINUOUS AND PERIODIC TESTING AND INSPECTION SHALL CONFORM TO:
 - CONCRETE CONSTRUCTION: PER 2021 IBC TABLE 1705.3.
 - MASONRY CONSTRUCTION: PER IMS 402/602-1.6.



FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

CHAMLIN & ASSOCIATES, INC. © 2026
Drawing Name: G:\Users\jg\9316-02-Mazon-New Water Treatment Plant\CAD\019-WTP BUILDING FOUNDATION PLAN.dwg Last Modified: Tuesday, March 3, 2026 2:47:26 PM Plotted On: Tuesday, March 3, 2026 2:47:47 PM by Josh Washkovic

DRAWN BY: JJC		REVISIONS		DESCRIPTION	
LEVEL	BY	DATE	ADDENDUM No.	DESCRIPTION	
1	JJC	02/23/26	ADDENDUM No. 2		
2	JJW	03/02/26	ADDENDUM No. 3		

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OTTAWA MENDOTA
ILLINOIS

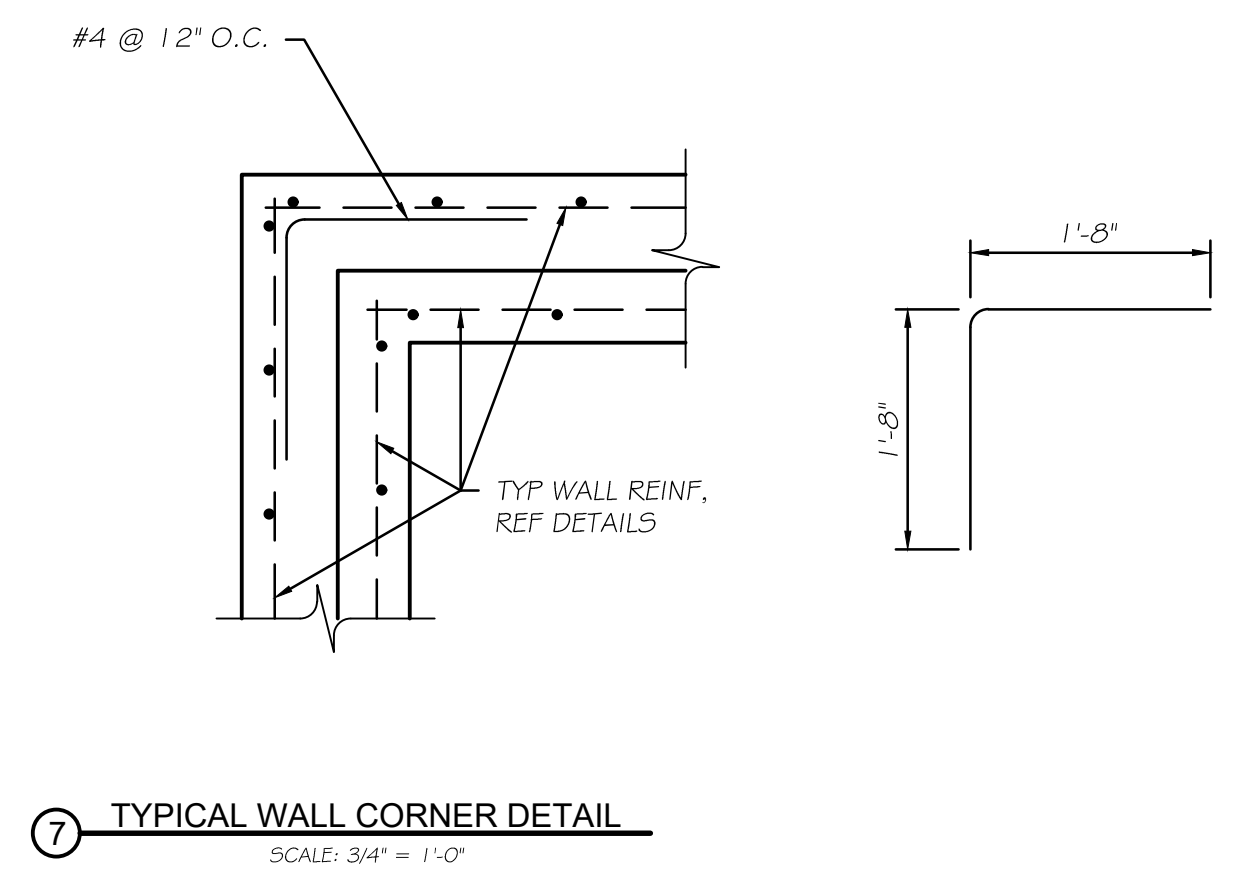
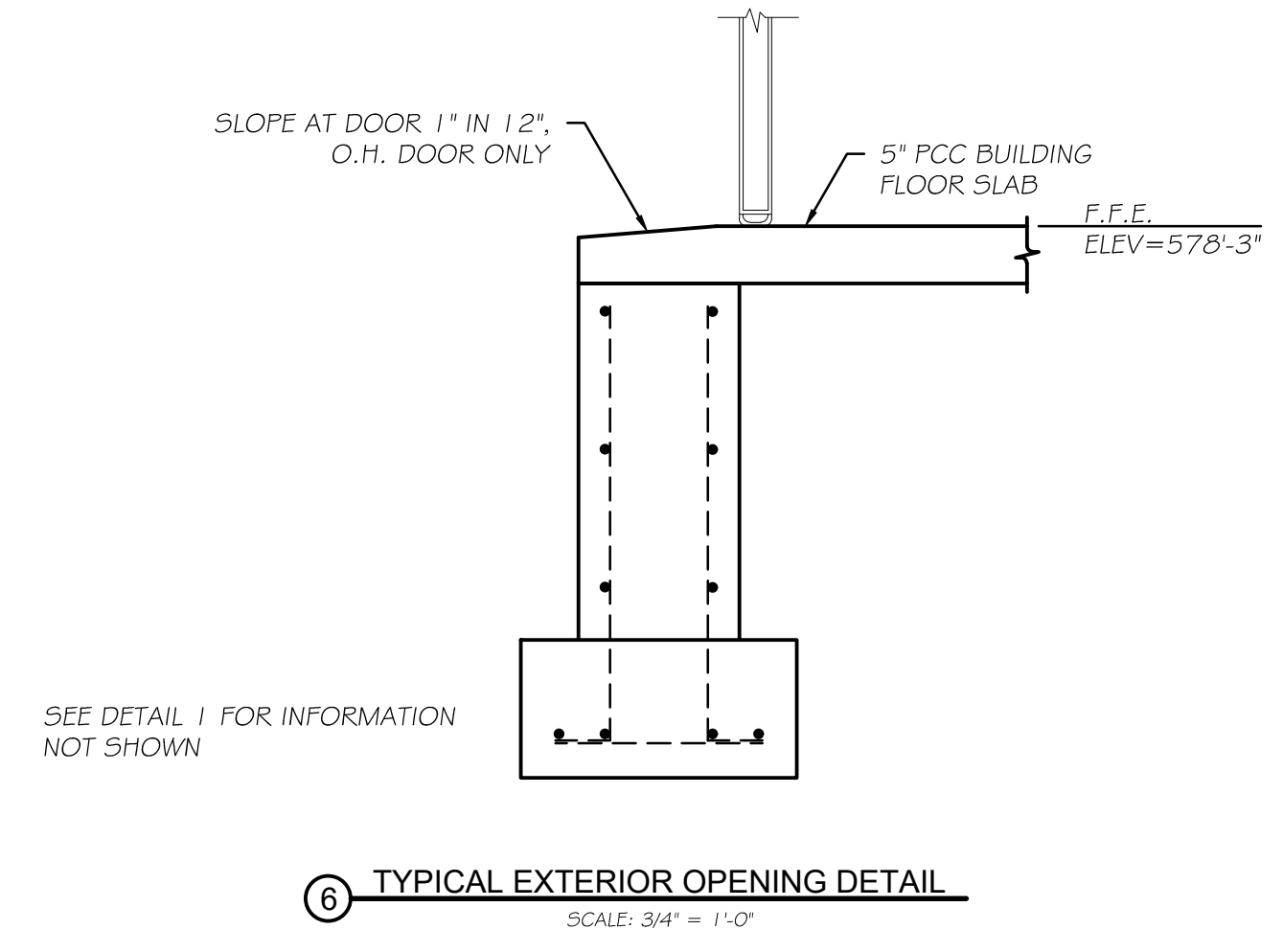
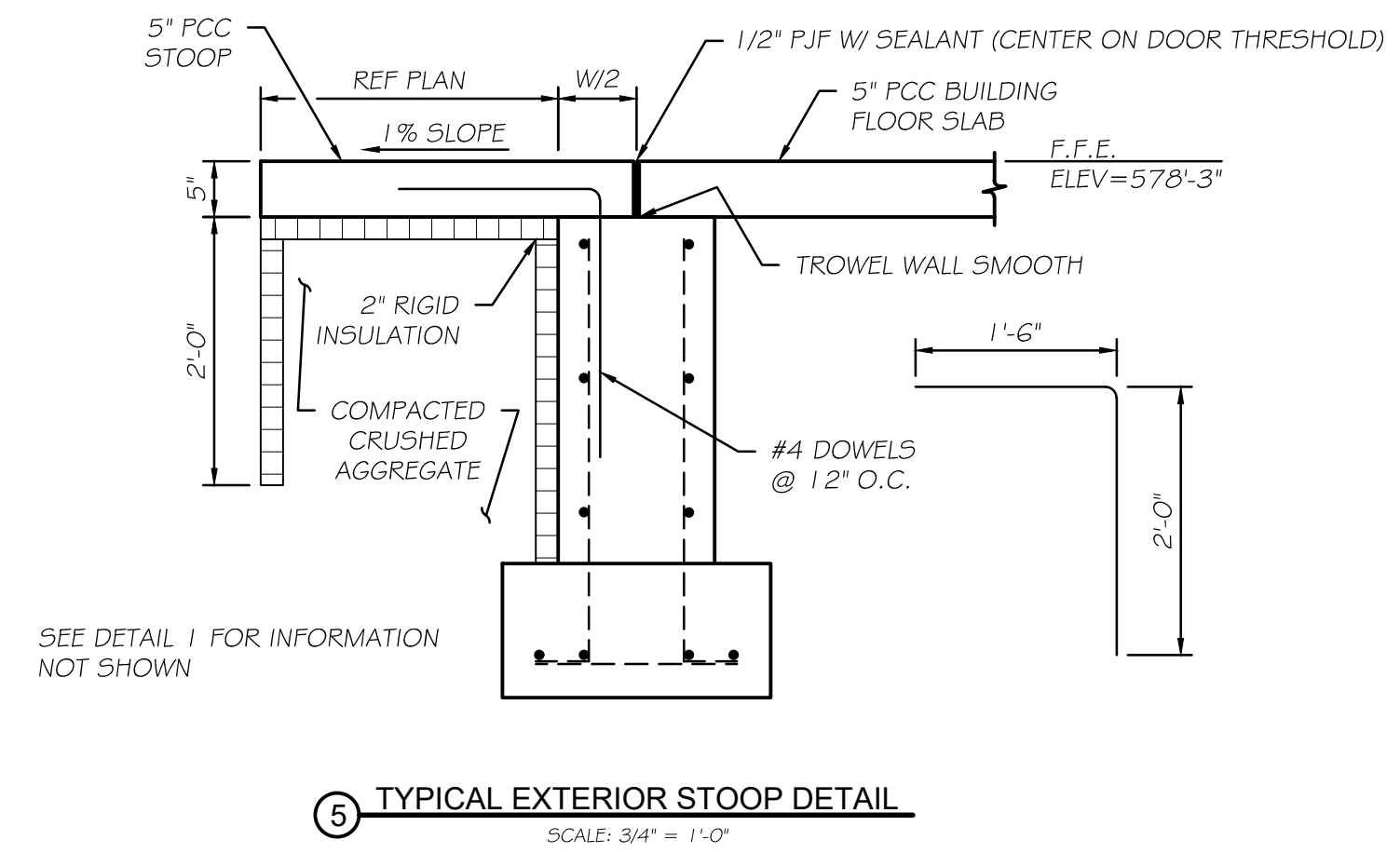
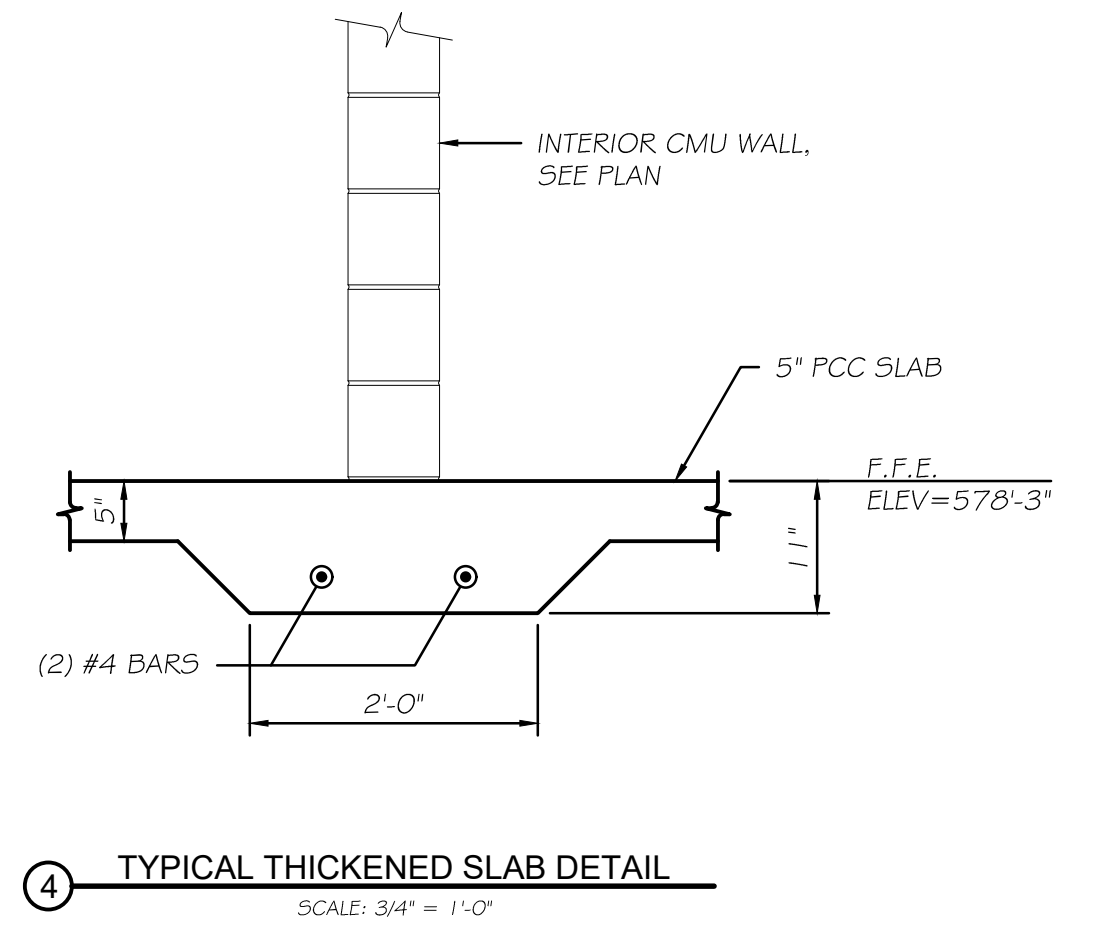
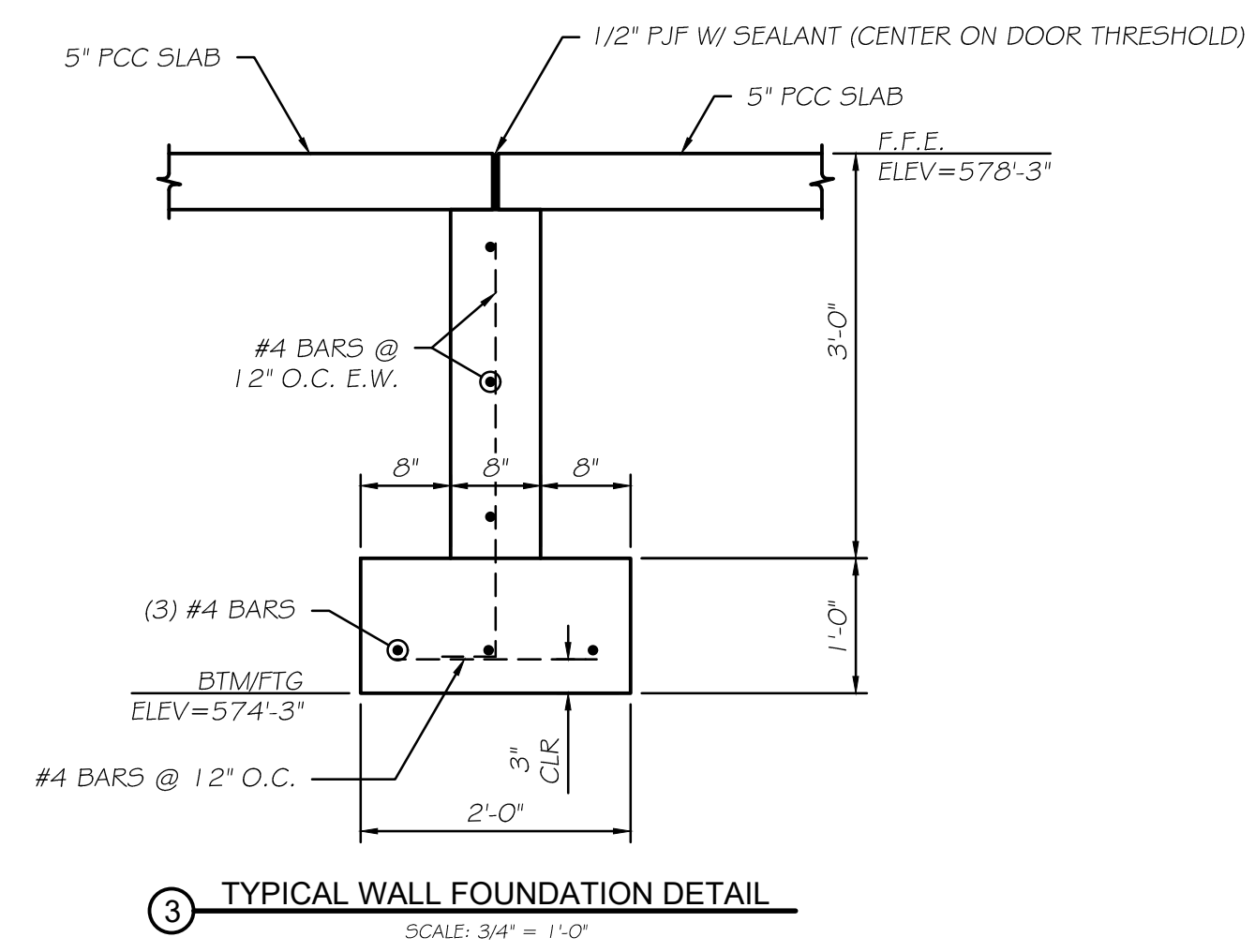
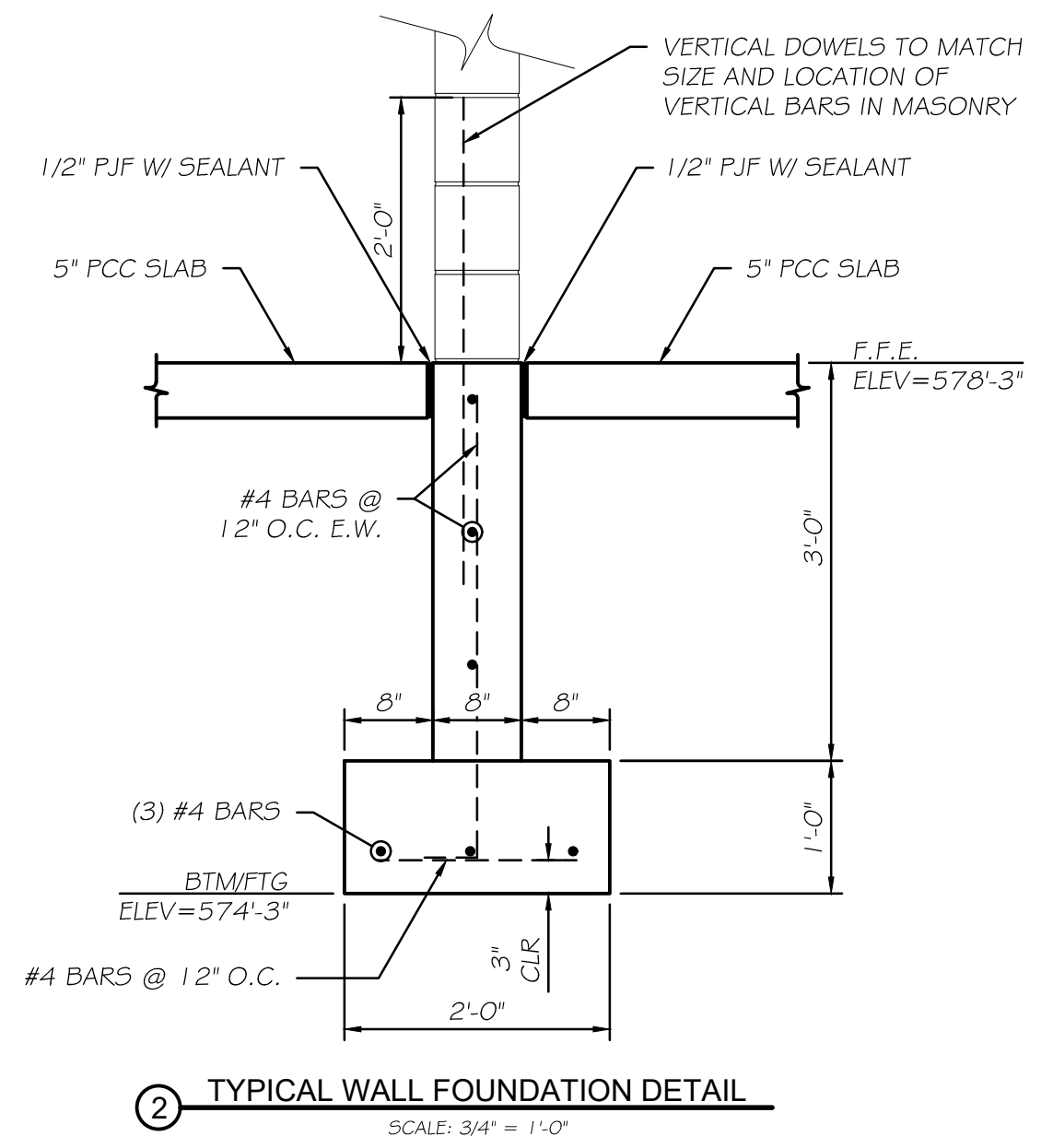
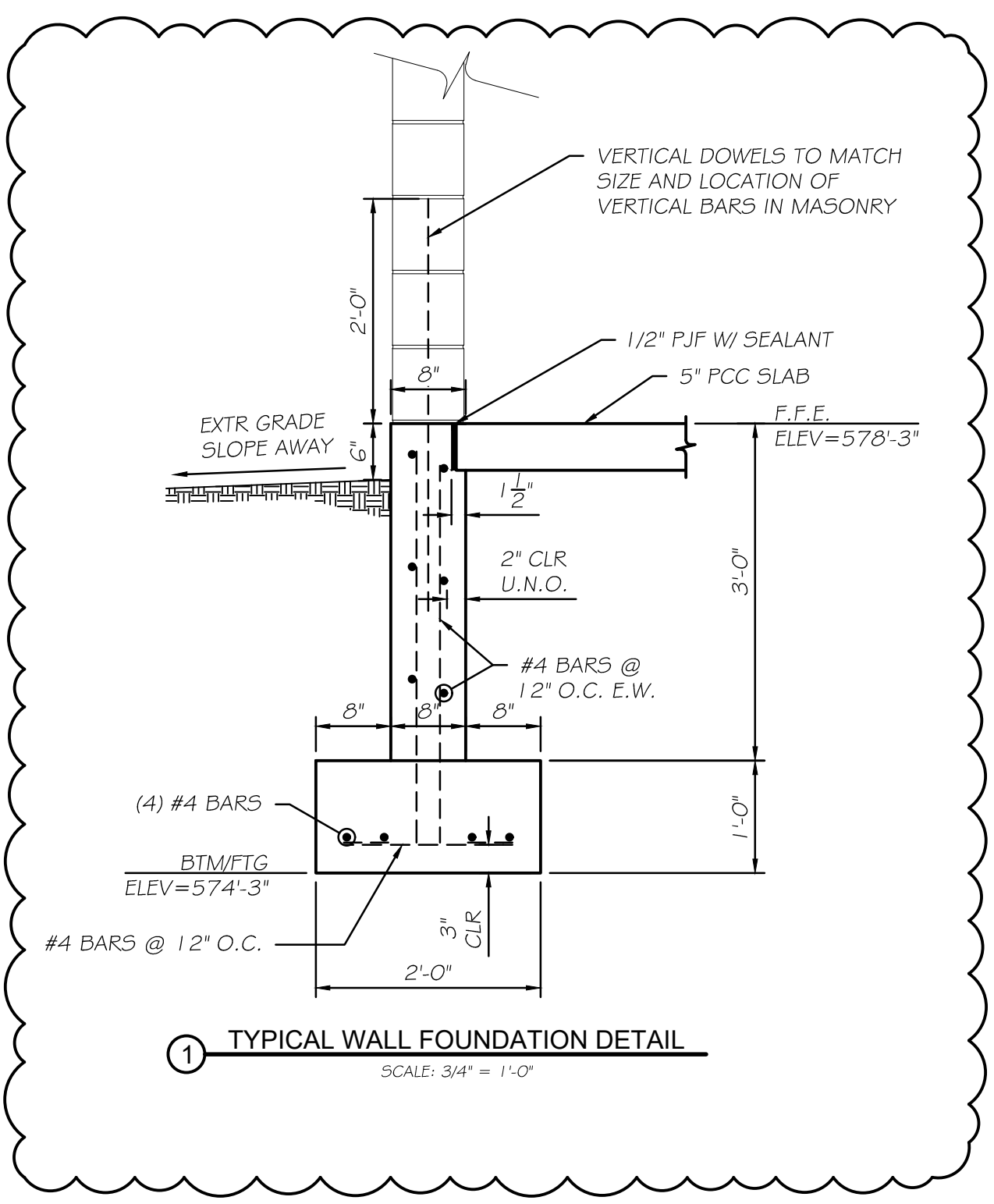
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

WTP BUILDING
FOUNDATION PLAN

BIDDING PLANS

CURRENT AS OF: 03/02/2026	SHEET 19
SCALE: AS NOTED	OF 55
FILE NO.: 9936.02	

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 Plotted On: Wednesday, March 4, 2026 2:05:05 PM by josh.washkewicz



DRAWN BY: JJC	REVISIONS			
CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 06/2024	1	JJW	03/04/26	ADDENDUM No. 3

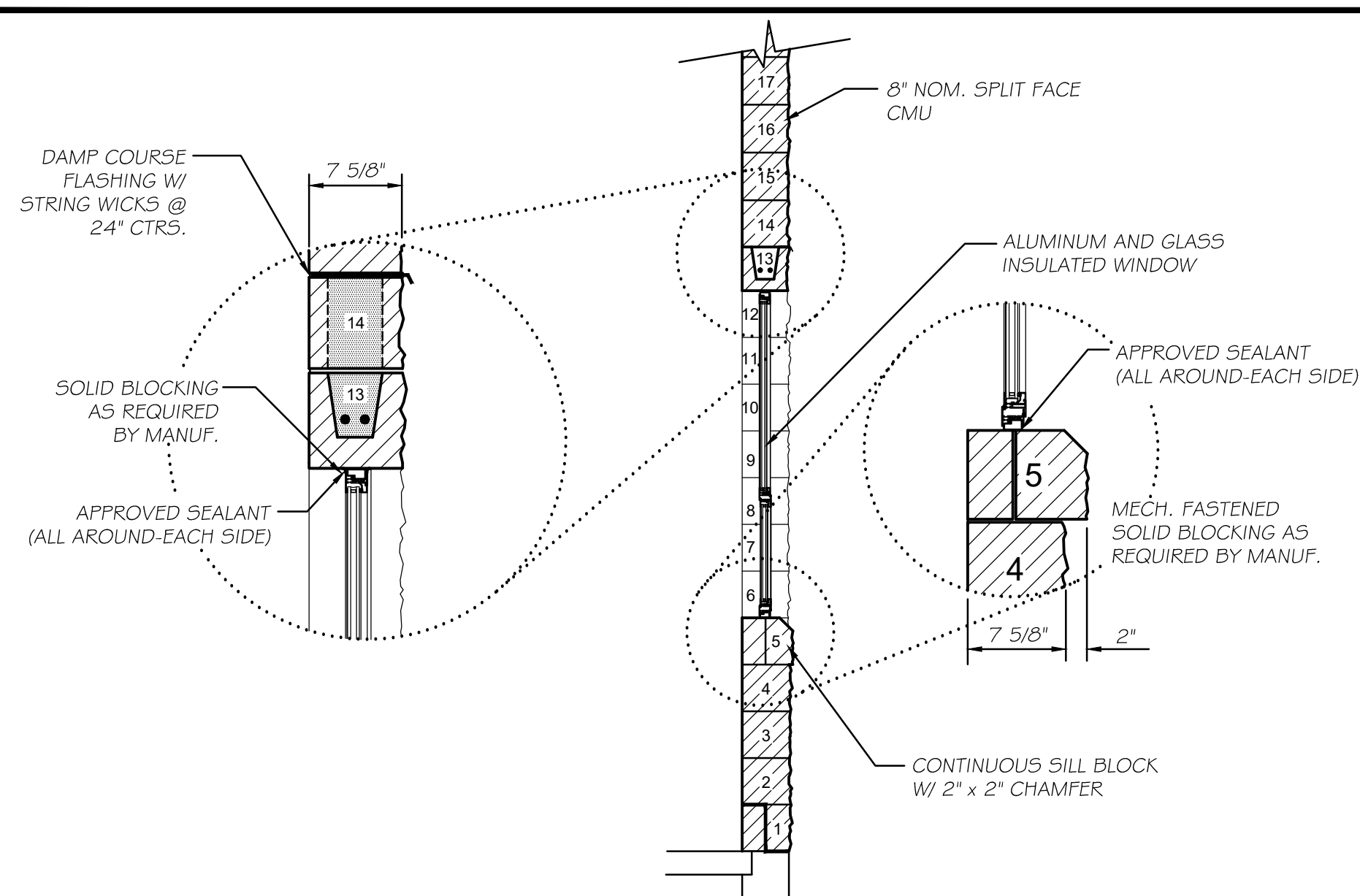

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 ILLINOIS

VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026

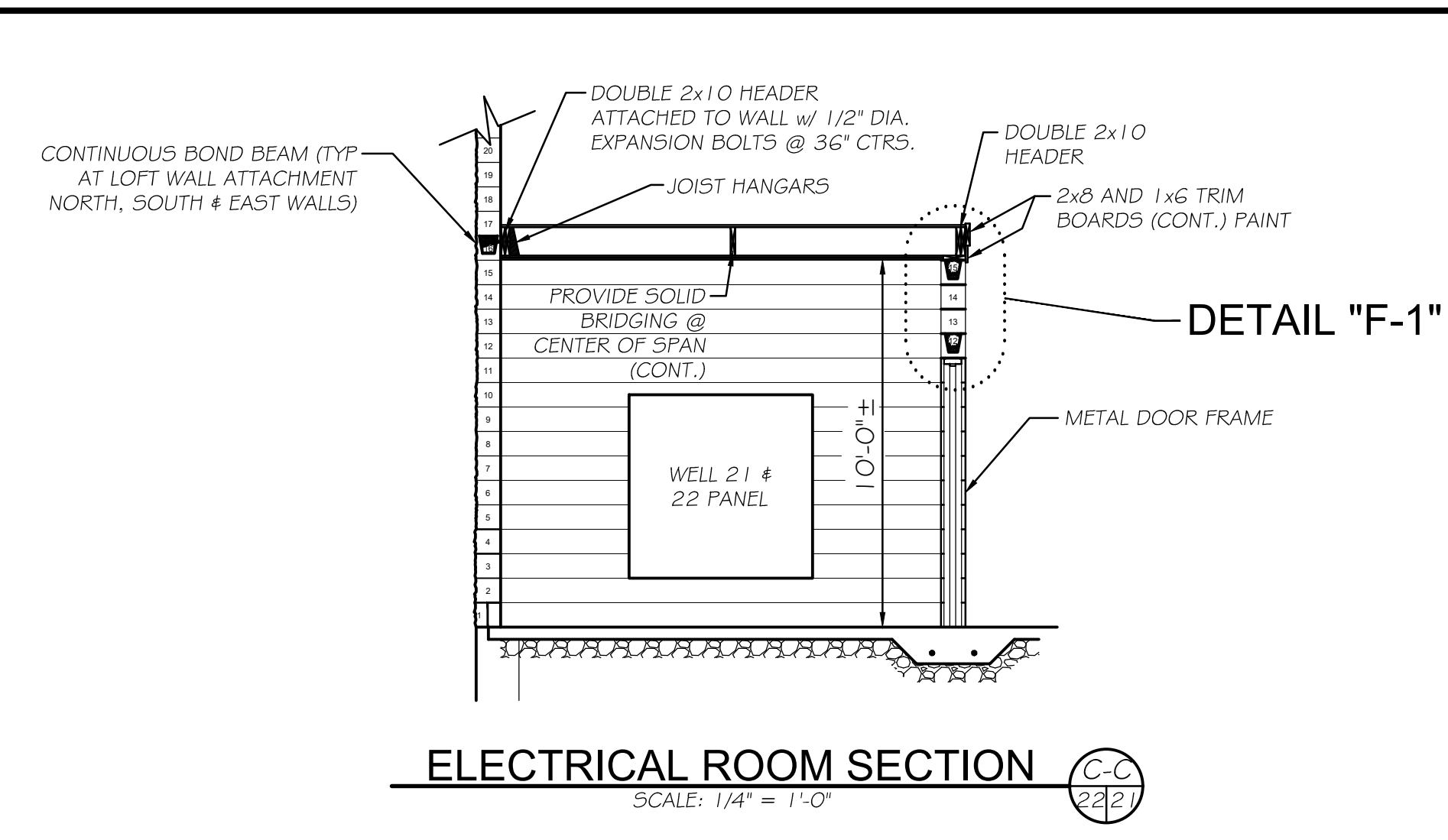
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 FOUNDATION DETAILS

BIDDING PLANS
 CURRENT AS OF: 03/04/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

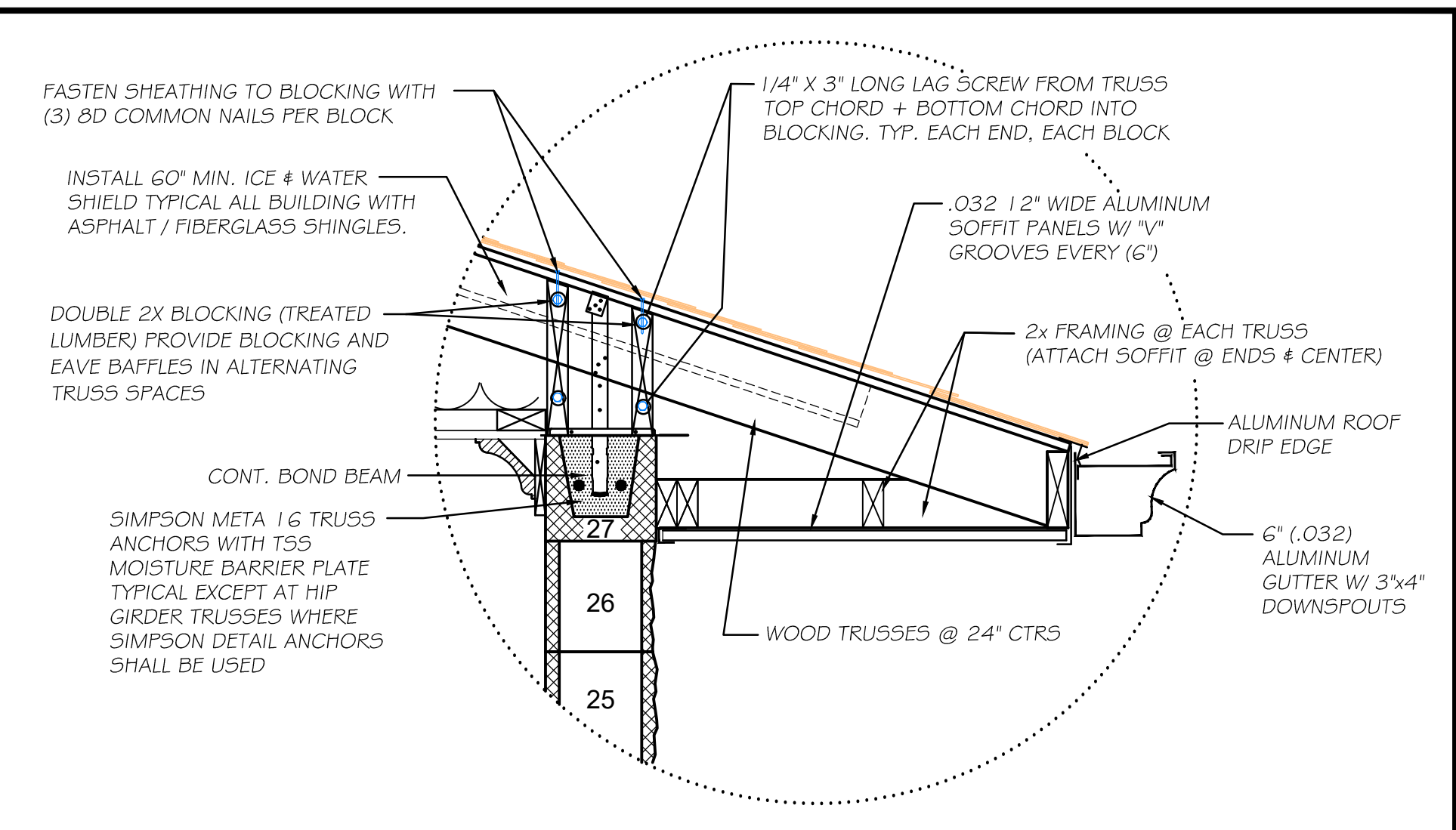
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 Plotted On: Tuesday, March 10, 2026 9:50:57 AM
 by: Josh Washkovich



TYPICAL EXTERIOR WALL SECTION @ WINDOW
SCALE: 1/2" = 1'-0"

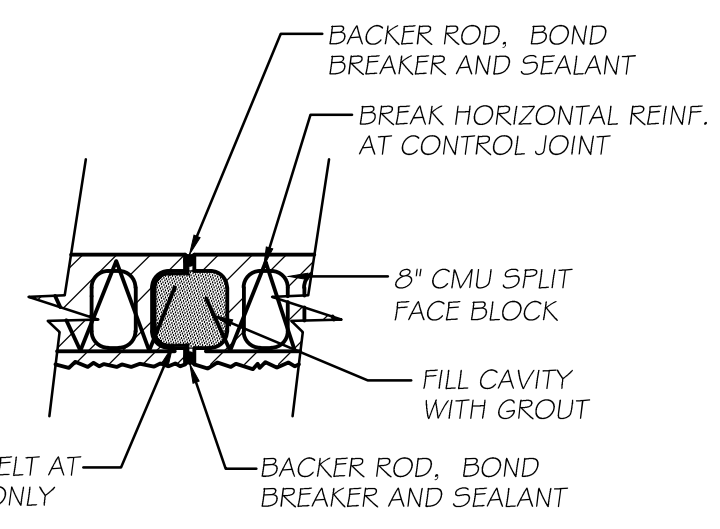


ELECTRICAL ROOM SECTION
SCALE: 1/4" = 1'-0"



DETAIL "A"

NOTE:
ALL WALL FLASHINGS MUST RUIN CONTINUOUS THRU CONTROL JOINTS

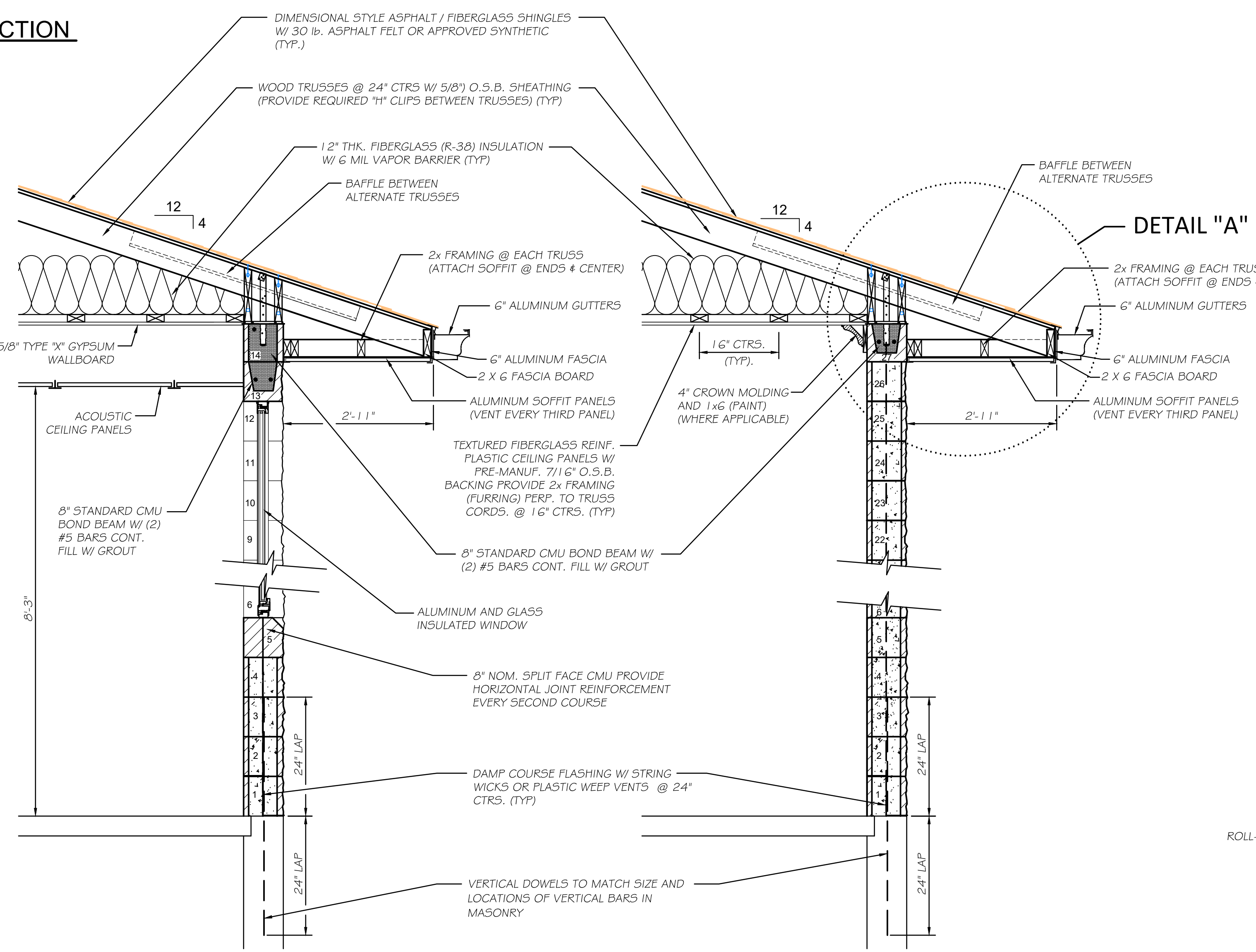


CONTROL JOINT DETAIL
N.T.S.

BAR LAP SPLICE TABLE

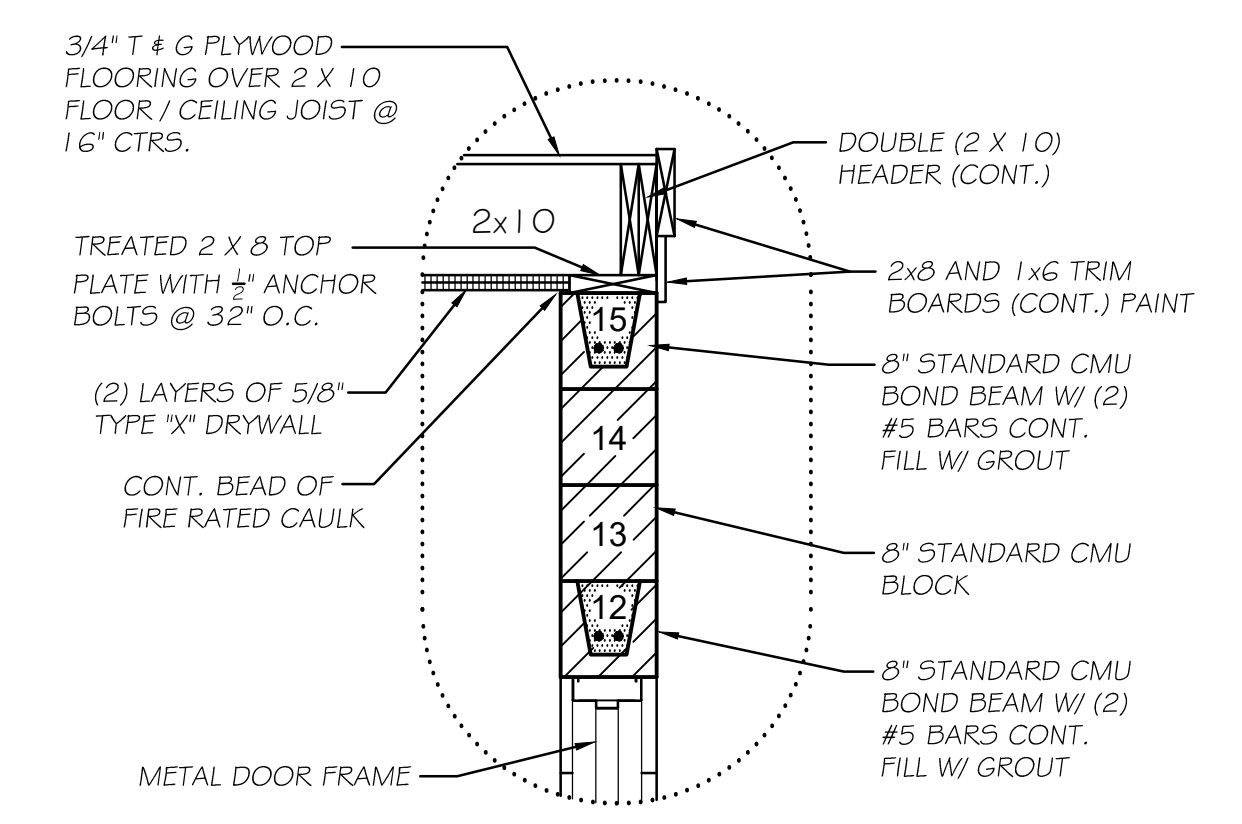
UNLESS NOTED OTHERWISE, THE FOLLOWING LAP SPLICE LENGTHS SHALL BE USED FOR PLAIN AND EPOXY COATED BARS:

BAR SIZE	LAP LENGTH
# 4	2'-0"
# 5	2'-4"
# 6	2'-10"
# 7	4'-2"
# 8	4'-8"

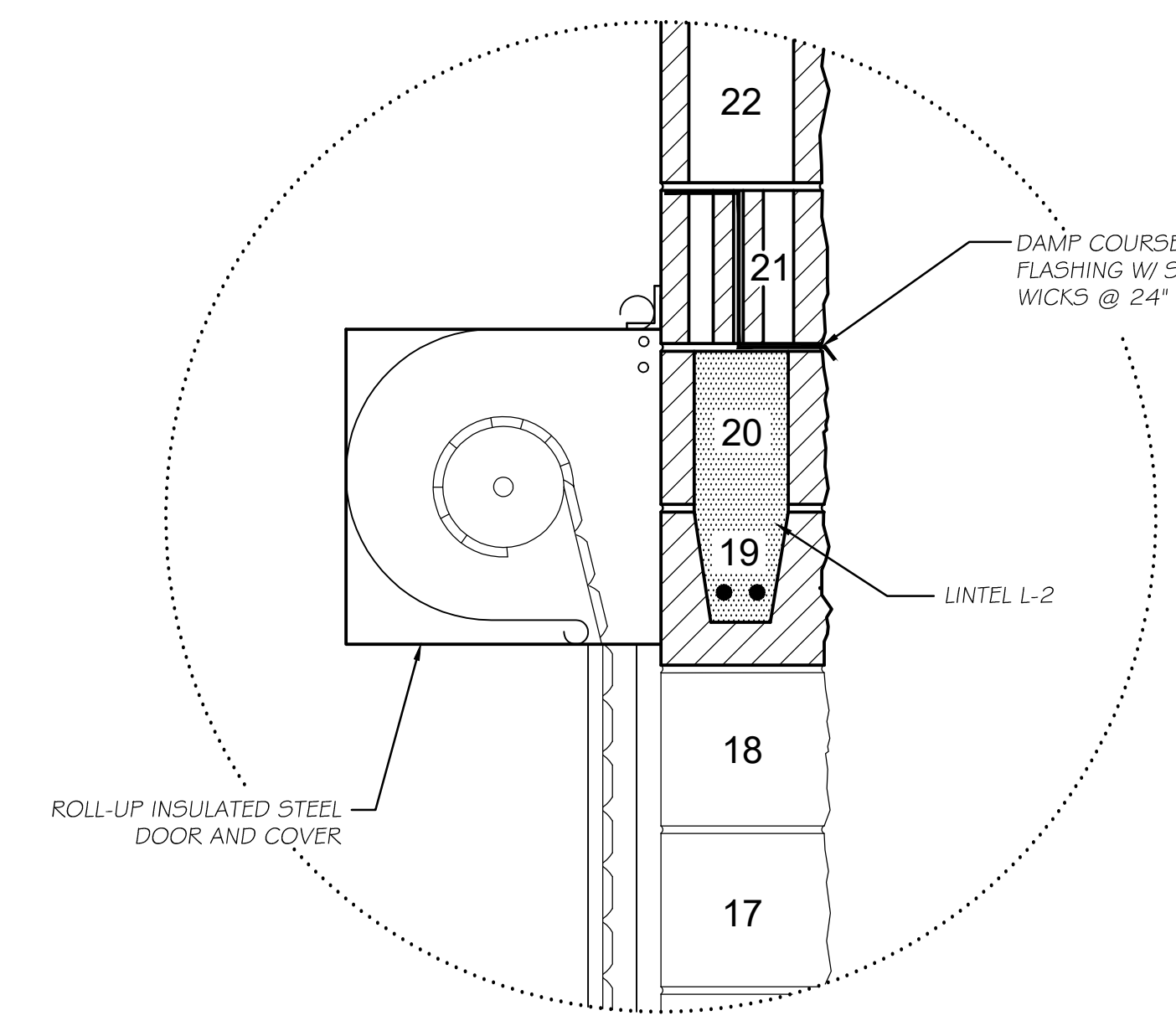


WALL SECTION A
SCALE: 3/4" = 1'-0"

WALL SECTION B
SCALE: 3/4" = 1'-0"



DETAIL "F-1" @ DOOR
SCALE: 3/4" = 1'-0"



TYPICAL WALL DETAIL @ ROLL-UP DOOR
N.T.S.

ENTIRE SHEET

LEVEL	BY	DATE	REVISIONS	DESCRIPTION
1	JJW	03/03/26	ADDENDUM No. 3	

DRAWN BY: JJW
CHECKED BY: RTB
DATE: 11/25

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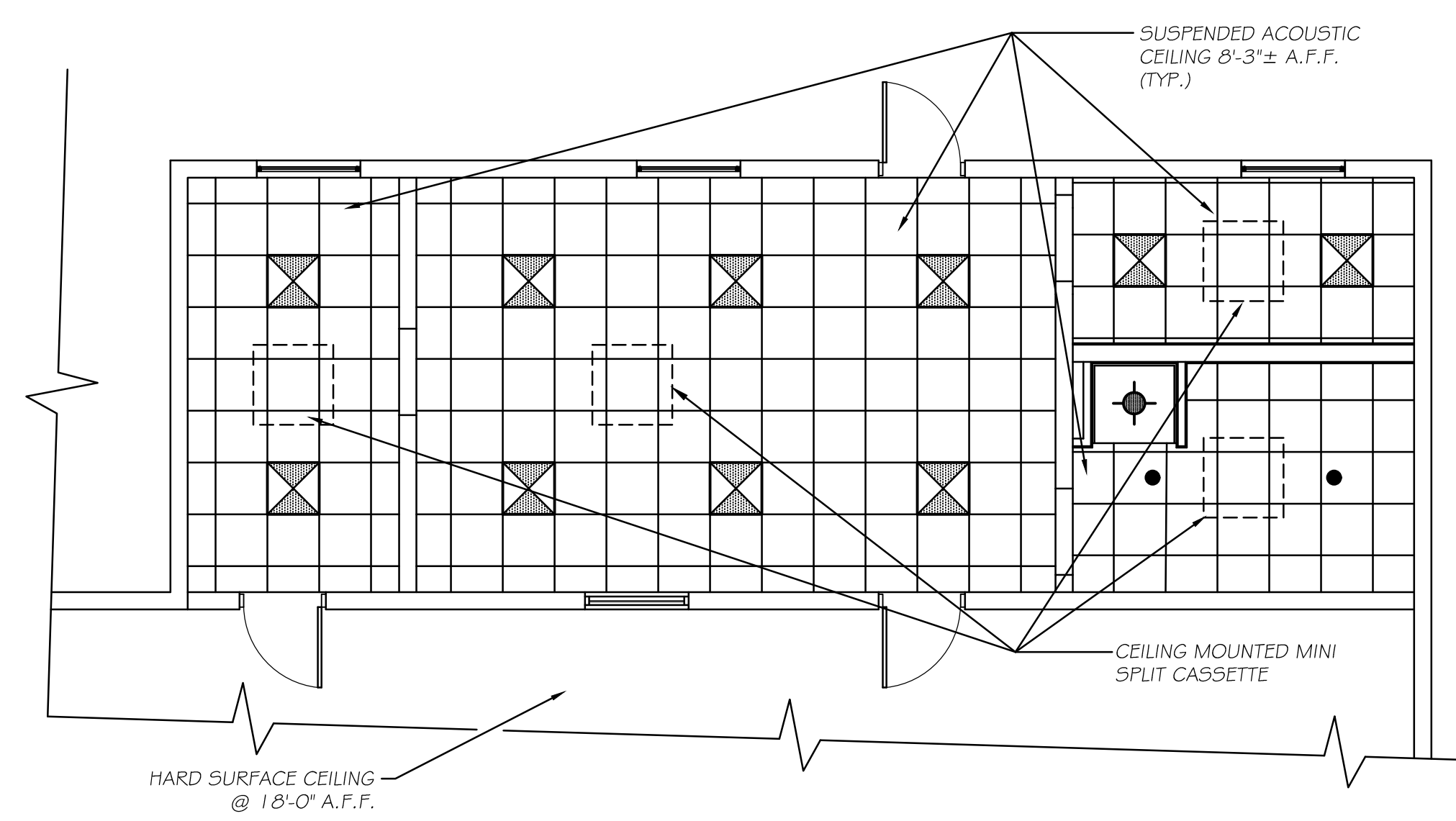
**VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026**

**TYPICAL BUILDING STRUCTURAL
AND
ARCHITECTURAL DETAILS**

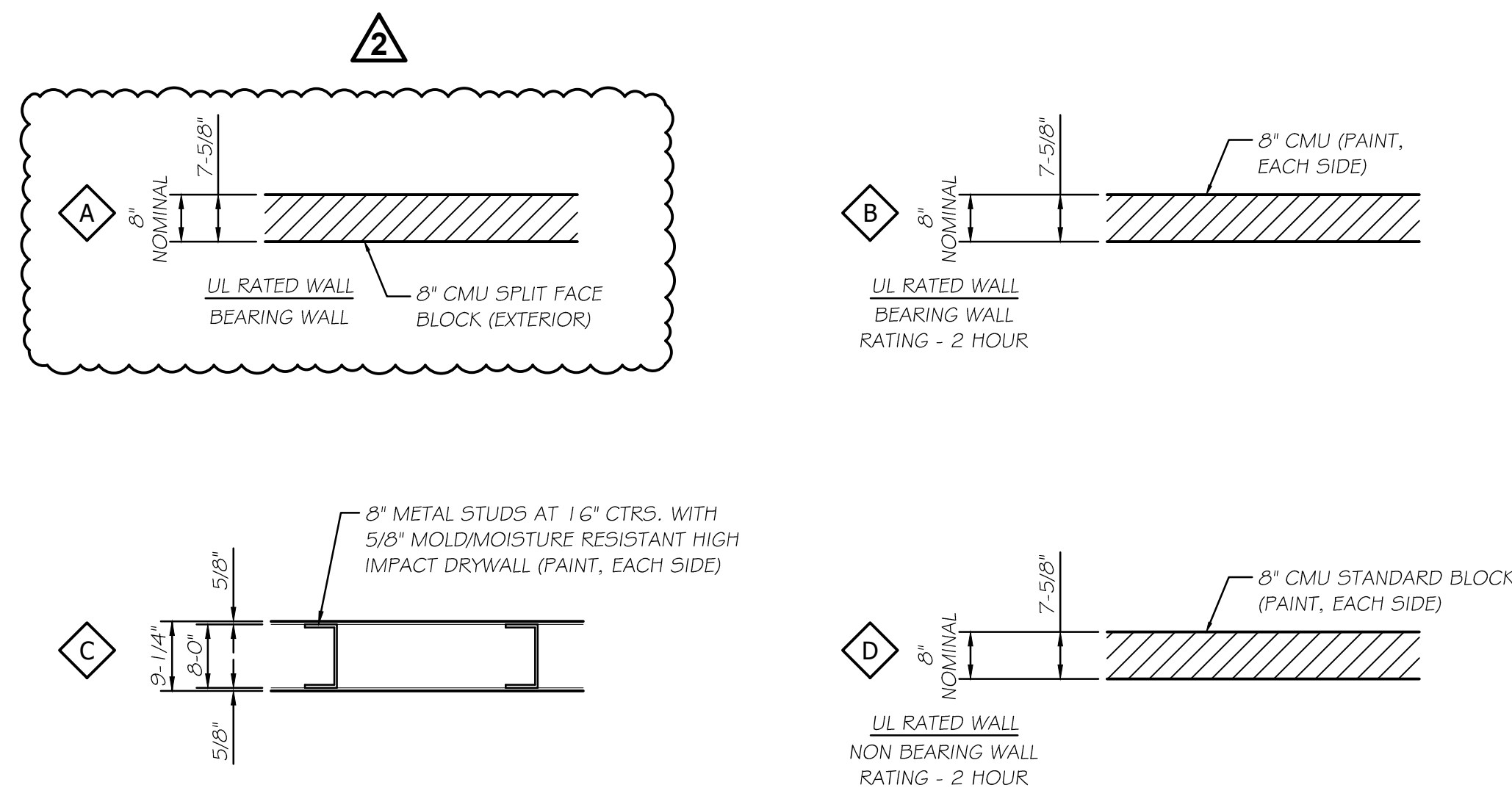
BIDDING PLANS

CURRENT AS OF: 03/03/2026
SCALE: AS NOTED
FILE NO.: 9936.02 Y- OF 55

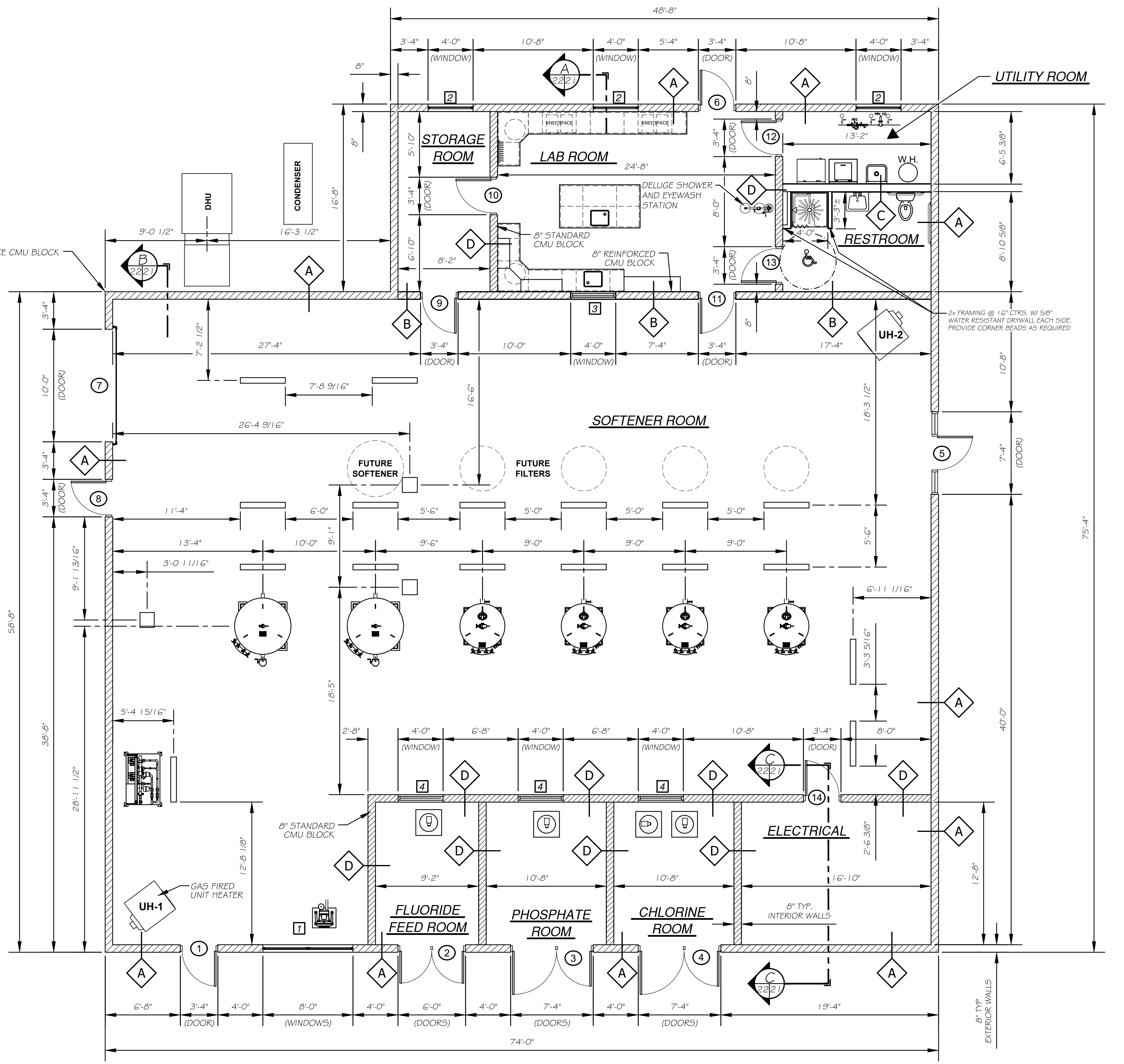
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 Last Modified: Tuesday, March 3, 2026 2:44:43 PM
 Plotted On: Tuesday, March 3, 2026 2:44:43 PM
 by: Josh Westhokowak



LAB BUILDING REFLECTED CEILING PLAN
 SCALE: 3/16" = 1'-0"
 NORTH



TYPICAL WALL DETAILS
 N.T.S.



LAYOUT PLAN
 SCALE: 3/16" = 1'-0"
 NORTH

DRAWN BY: JJC	REVISIONS			
CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 06/2024	1	JJC	02/23/26	ADDENDUM No. 2
	2	JJW	02/27/26	ADDENDUM No. 3


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 ILLINOIS

VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026

WTP BUILDING
 LAYOUT PLAN

BIDDING PLANS
 CURRENT AS OF: 02/27/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

DOOR SCHEDULE								
DOOR No.	TYPE	SIZE	DOOR TYPE		FRAME TYPE		HARDWARE GROUP	REMARKS
			MATERIAL	FINISH	MATERIAL	FINISH		
1	C	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	1	
2	B	(2) 2'-10" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	1	2. (HARDWARE SAME ON EACH DOOR)
3	A	3'-10" x 7'-0" x 1 3/4" (L) 3'-0" x 7'-0" x 1 3/4" (R)	IFRP	IFRP	ALUM	PRE-FIN	1	2. (HARDWARE SAME ON EACH DOOR)
4	A	3'-10" x 7'-0" x 1 3/4" (L) 3'-0" x 7'-0" x 1 3/4" (R)	IFRP	IFRP	ALUM	PRE-FIN	1	2. (HARDWARE SAME ON EACH DOOR)
5	F	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	1	
6	C	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	1	
7	ROLL-UP	10'-0" W. x 12'-0" H	IM	PRE-FIN	CMU			
8	C	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	1	
9	D	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	4	
10	D	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	4	
11	E	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	4	
12	D	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	4	
13	D	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	2	
14	C	3'-0" x 7'-0" x 1 3/4"	IFRP	IFRP	ALUM	PRE-FIN	3	1

DOOR SCHEDULE ABBREVIATIONS:

- RD = ROLL-UP DOOR
- IM = INSULATED METAL
- IMM = INSULATED HOLLOW METAL
- IFRP = INSULATED FRP
- PRE-FIN = PRE-FINISHED
- ALUM = ALUMINUM

DOOR SCHEDULE REMARKS:

- 1/2 HOUR LABELED DOOR, FRAME & HARDWARE.
- PROVIDE REMOVABLE CENTER MULLION WITH LOCK.

ROOM FINISH SCHEDULE ABBREVIATIONS:

- ACT = 2' x 2' ACOUSTICAL CEILING TILE
- CMU = CONCRETE MASONRY UNITS
- DW = DRYWALL
- PNT = PAINT
- RCB = ROLLED RADIUS INTEGRAL COVE BASE
- PC = PRECAST CONCRETE ROOF PLANKS
- EPX = EPOXY FLOOR COATING WITH SLIP RESISTANT ADDITIVE

ROOM FINISH SCHEDULE																
ROOM NAME	AREA	NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		FLOOR	BASE	CEILING		CEILING HEIGHT	REMARKS	ROOM NAME
		MATL.	FINISH	MATL.	FINISH	MATL.	FINISH	MATL.	FINISH			MATL.	FINISH			
SOFTENER ROOM	3216 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	CONC.	PNT	18'-0"		SOFTENER ROOM
LAB	378 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	ACT	PM	8'-3"		LAB
REST ROOM	110 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	ACT	PM	8'-3"		REST ROOM
UTILITY ROOM	76 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	ACT	PM	8'-3"		UTILITY ROOM
STORAGE	118 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	ACT	PM	8'-3"		STORAGE
ELECTRICAL ROOM	148 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	CONC.	PNT	10'-0"		ELECTRICAL ROOM
CHLORINE ROOM	128 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	CONC.	PNT	10'-0"		CHLORINE ROOM
FLUORIDE ROOM	108 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	CONC.	PNT	10'-0"		FLUORIDE ROOM
PHOSPHATE ROOM	128 SF	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EPX	RCB	CONC.	PNT	10'-0"		PHOSPHATE ROOM

DOOR HARDWARE SCHEDULE

* ALL HARDWARE SHALL BE US32D STAINLESS STEEL BASE METAL W/ SATIN FINISH

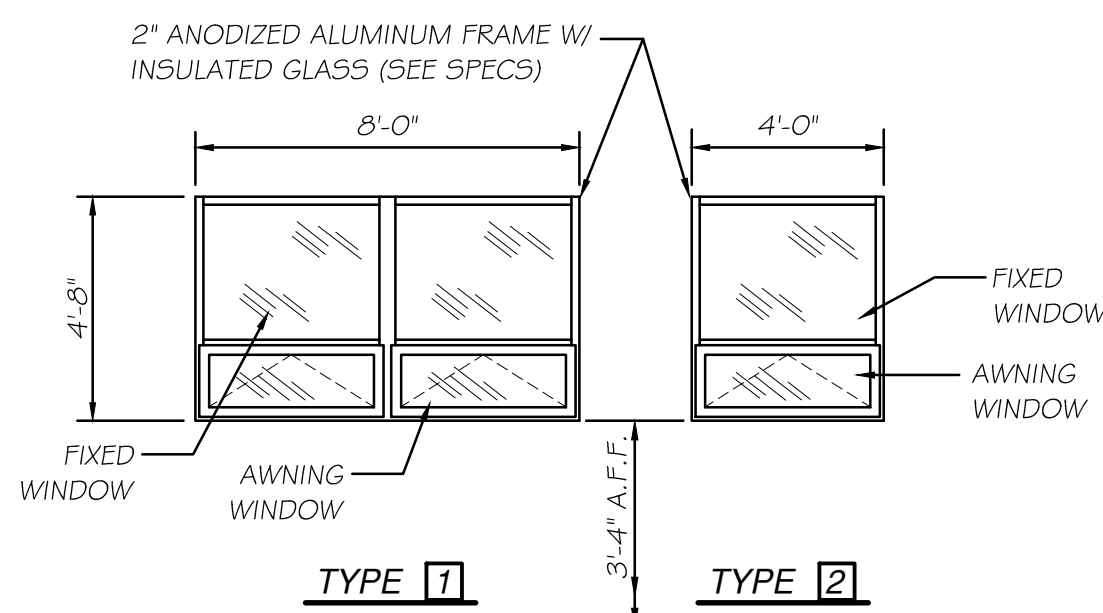
- | GROUP NUMBER | DESCRIPTION |
|--------------|---|
| 1 | <ul style="list-style-type: none"> (3) MORTISE TYPE, BUTT HINGES INTERIOR PANIC DEVICE, EXTERNAL SURFACE - GROOVED EXTERIOR LEVER HANDLE EXTERIOR CYLINDER LOCK (CONVENTIONAL WITH STOCK KEYWAY) CUSH CLOSER WITH HOLD OPEN PERIMETER WEATHER STRIP AND BOTTOM DOOR SWEEP ALUMINUM THRESHOLD |
| 2 | <ul style="list-style-type: none"> (3) MORTISE TYPE, BUTT HINGES LEVER HANDLES (EACH SIDE) PRIVACY SET |
| 3 | <ul style="list-style-type: none"> (3) MORTISE TYPE, BUTT HINGES LEVER HANDLES (EACH SIDE) PASSAGE SET CUSH CLOSER (NO HOLD OPEN) |
| 4 | <ul style="list-style-type: none"> (3) MORTISE TYPE, BUTT HINGES LEVER HANDLES (EACH SIDE) PASSAGE SET |

DOOR NOTES:

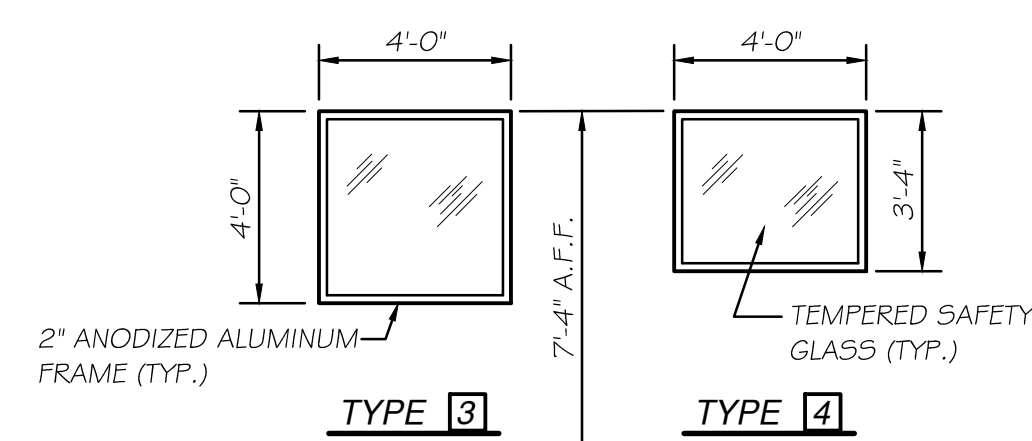
- ALL DOORS SHALL HAVE FLOOR OR WALL MOUNTED STOPS (UNLESS APPROVED OTHERWISE).
- ALL DOOR SETS SHALL INCLUDE HEAVY-DUTY COMMERCIAL GRADE LEVER HANDLES. ALL HARDWARE SHALL BE IN STRICT ACCORDANCE W/ ADA STANDARDS.
- DOOR LOCKS SHALL BE KEYPED AS DESCRIBED IN THE SPECS.
- ALL EXTERIOR DOORS WITH EXIT DEVICE SHALL FUNCTION AS FOLLOWS: A. KEY SHALL OPERATE LATCH. LEVER HANDLE RETRACTS LATCH EXCEPT WHEN LOCKED BY CYLINDER (INSIDE PANIC DEVICE ALWAYS OPERATES LATCH). LATCH DOGGING NOT REQUIRED.
- ALL EXTERIOR DOOR GLAZING SHALL BE TEMPERED SAFETY GLASS UNLESS NOTED OTHERWISE.

GENERAL NOTES: (FINISHES)

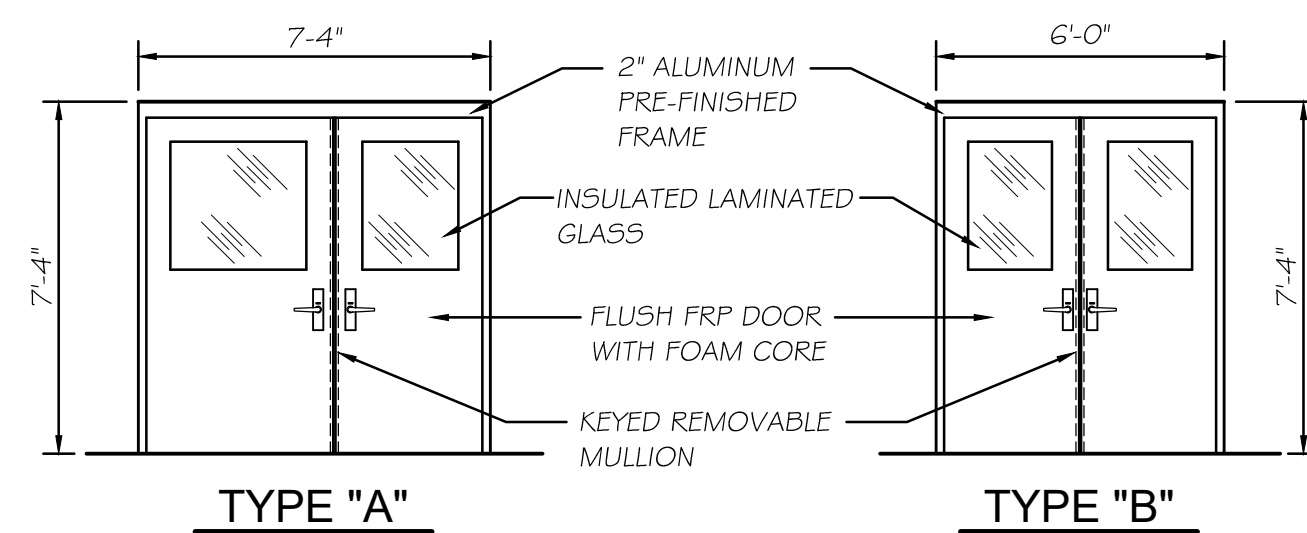
- ALL INTERIOR C.M.U. WALLS SHALL RECEIVE PAINTED FINISH OF TWO COATS OF HI-BUILD EPOXY COATING (SEE SPECS)
- ALL METAL DOORS AND FRAMES SHALL RECEIVE TWO FINISH COATS OF HI-BUILD EPOXY OVER FACTORY PRIME COAT. TOP AND BOTTOM OF ALL DOORS SHALL RECEIVE PAINT.



EXTERIOR WINDOWS

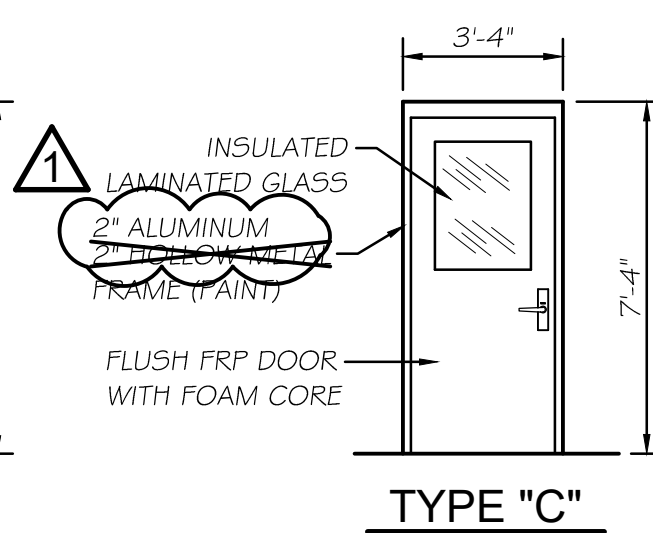


VIEWING WINDOWS

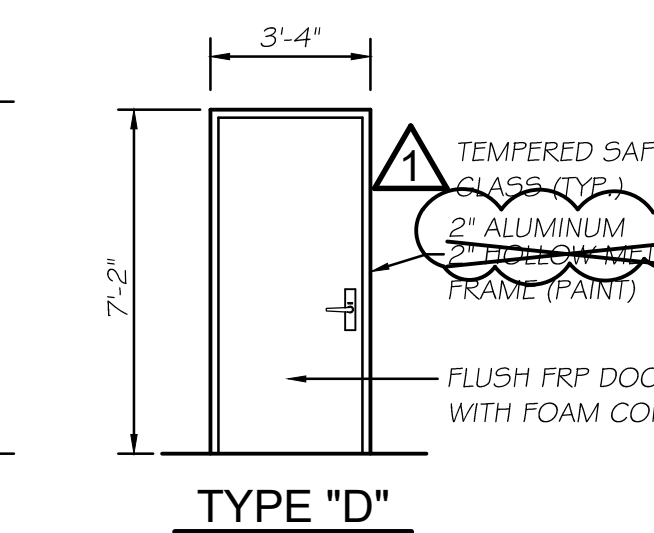


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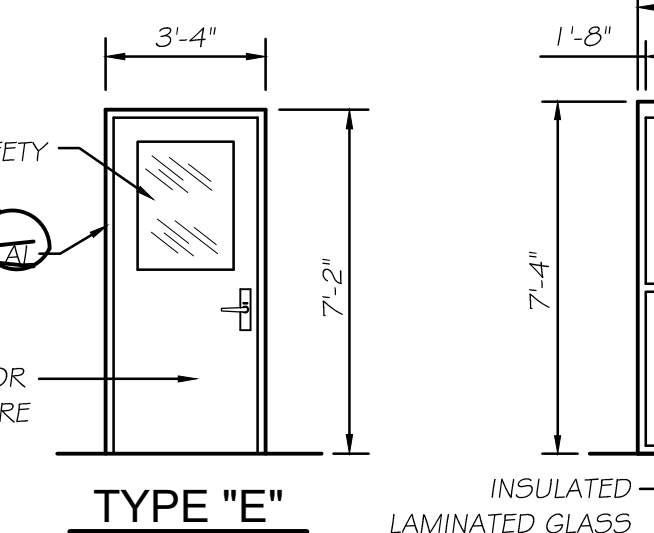
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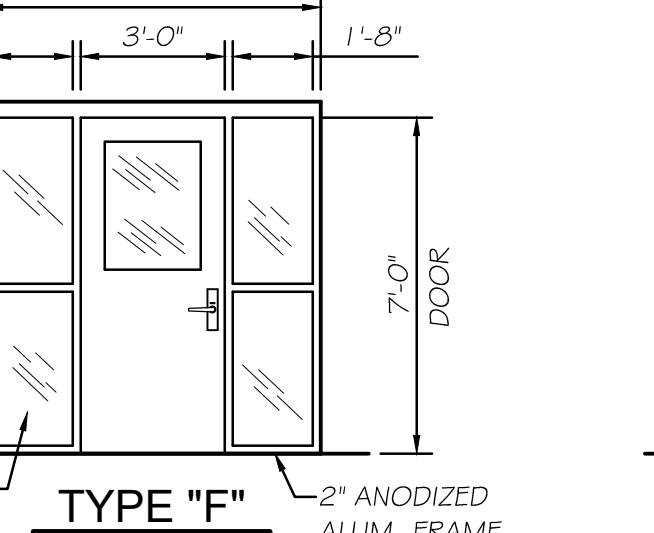
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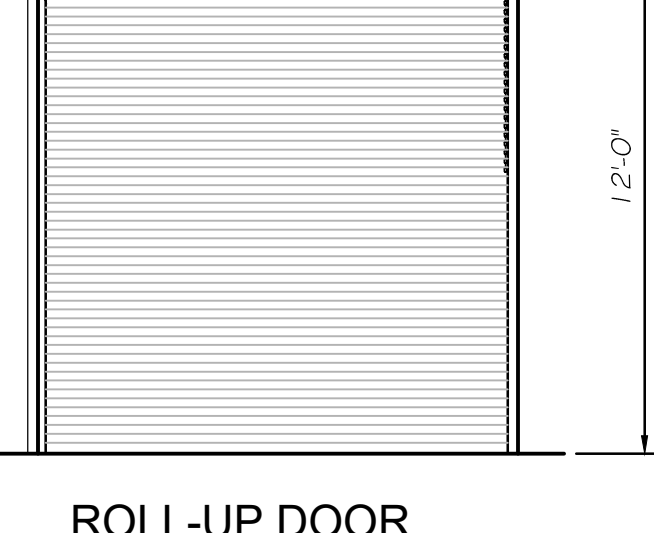
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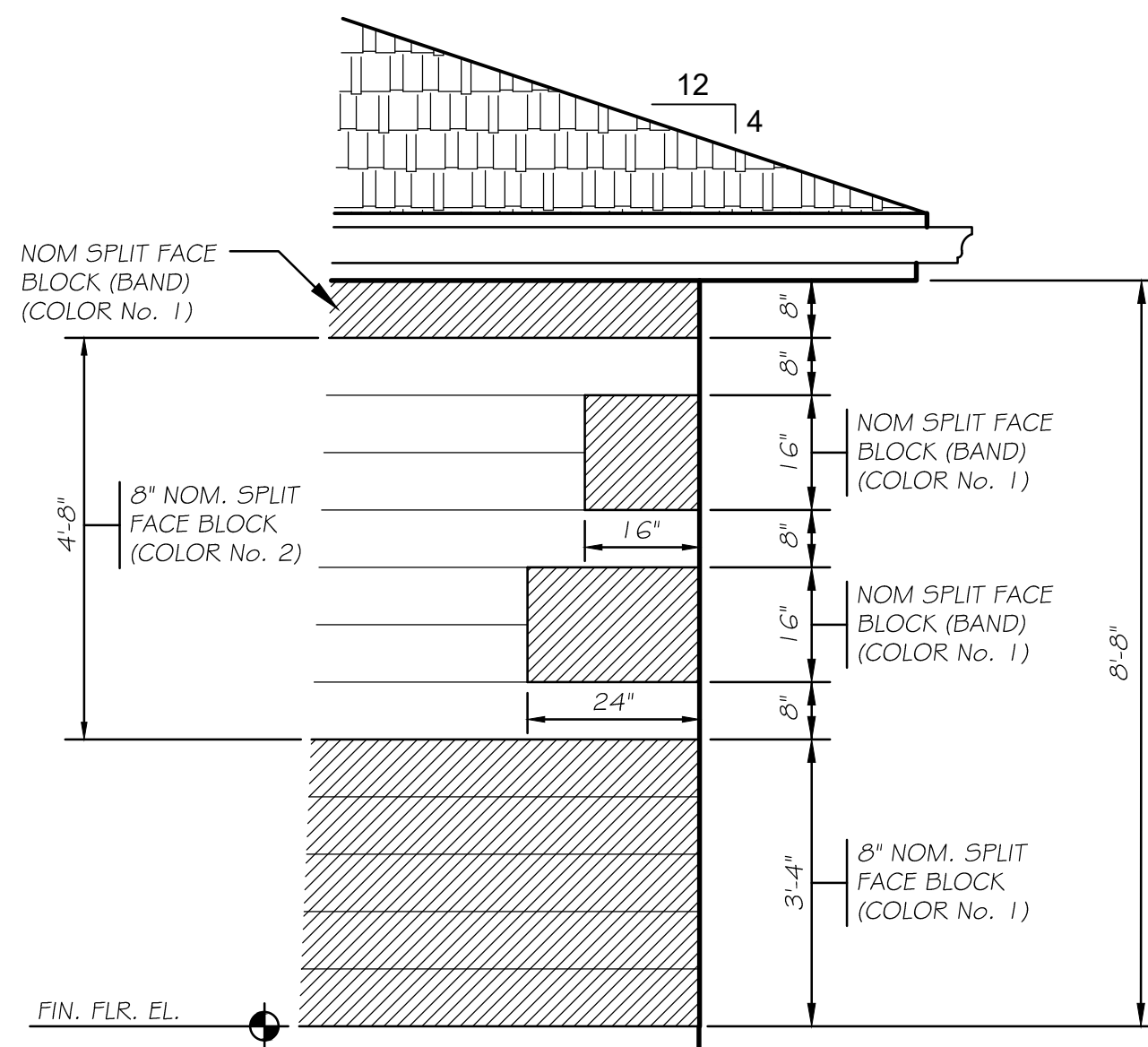
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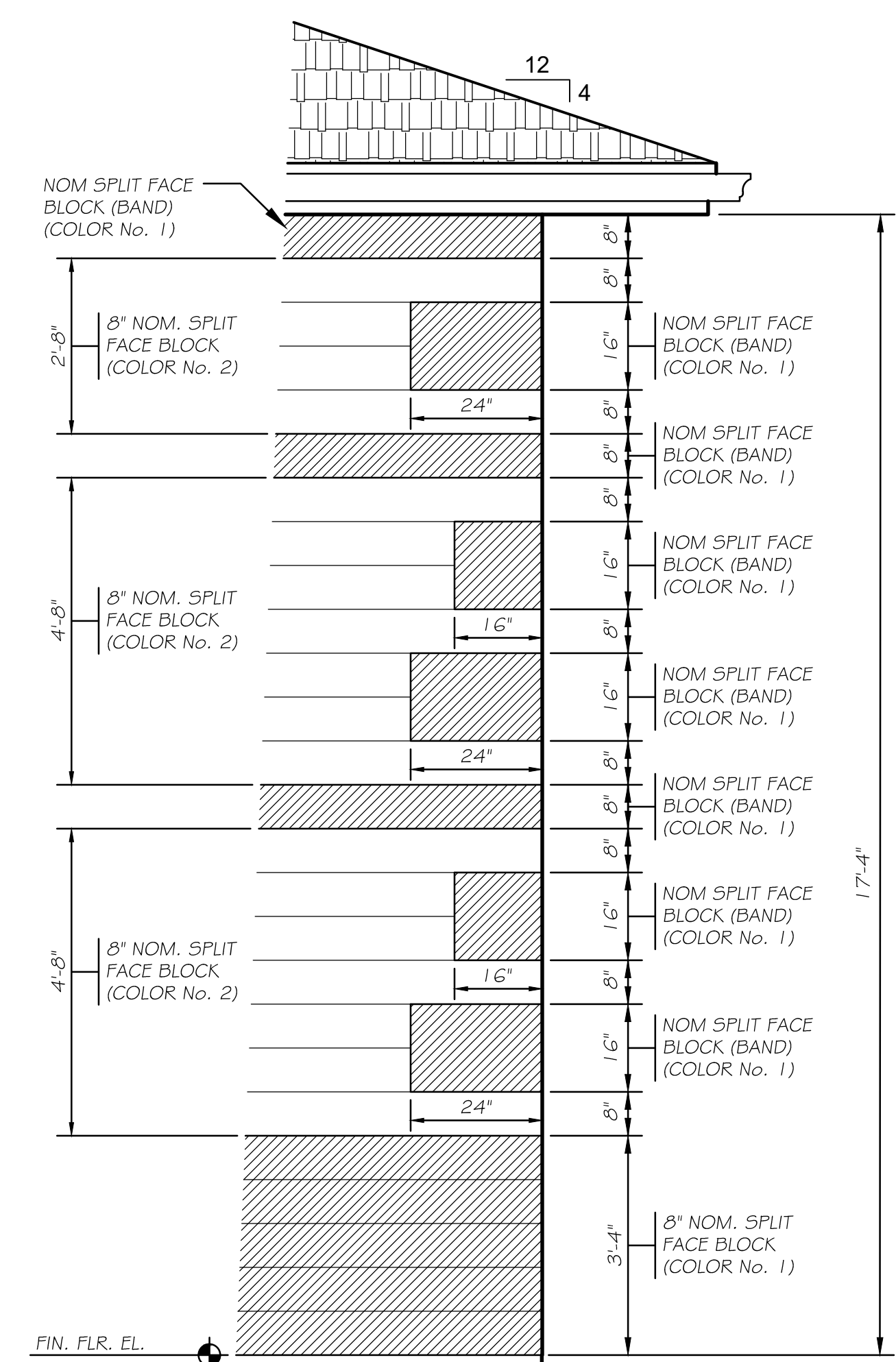
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ROLL-UP DOOR



TYPICAL CONTINUOUS BAND AND QUOINING DETAIL @ OFFICE BUILDING

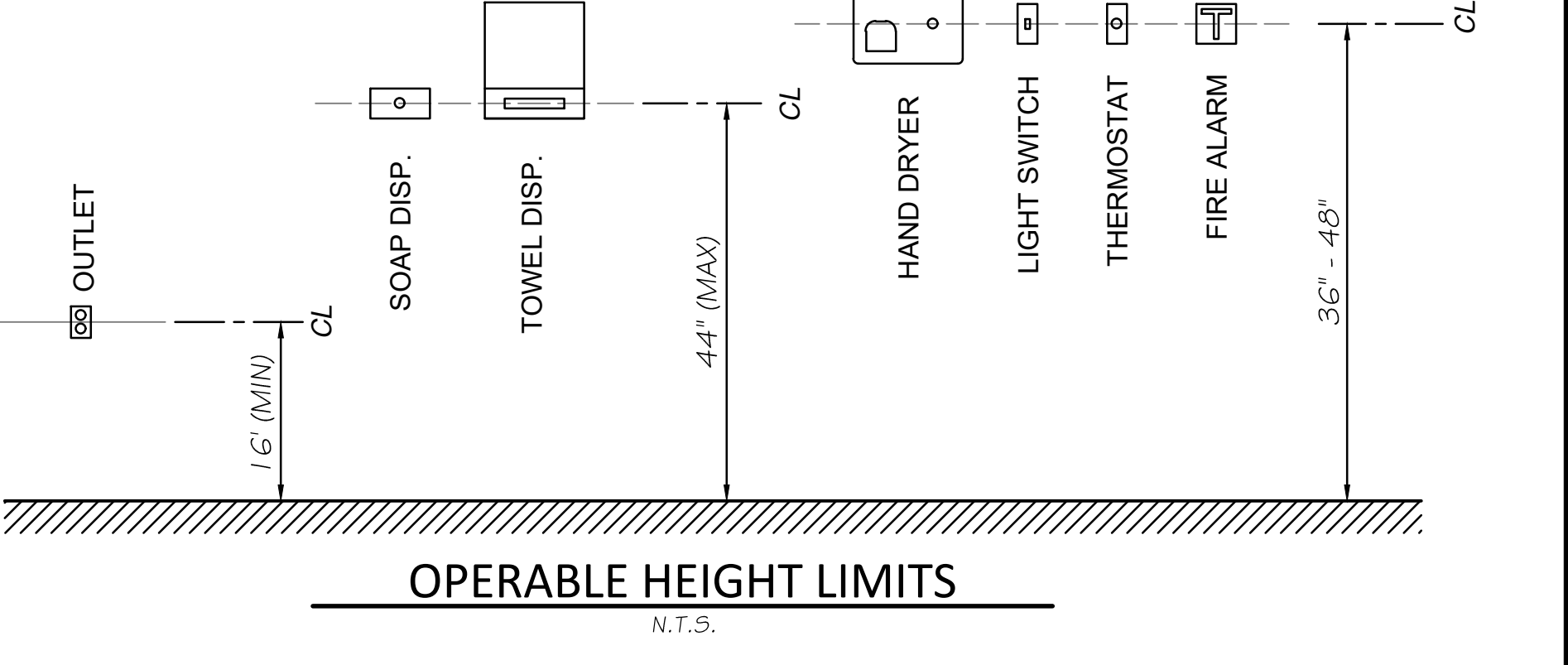
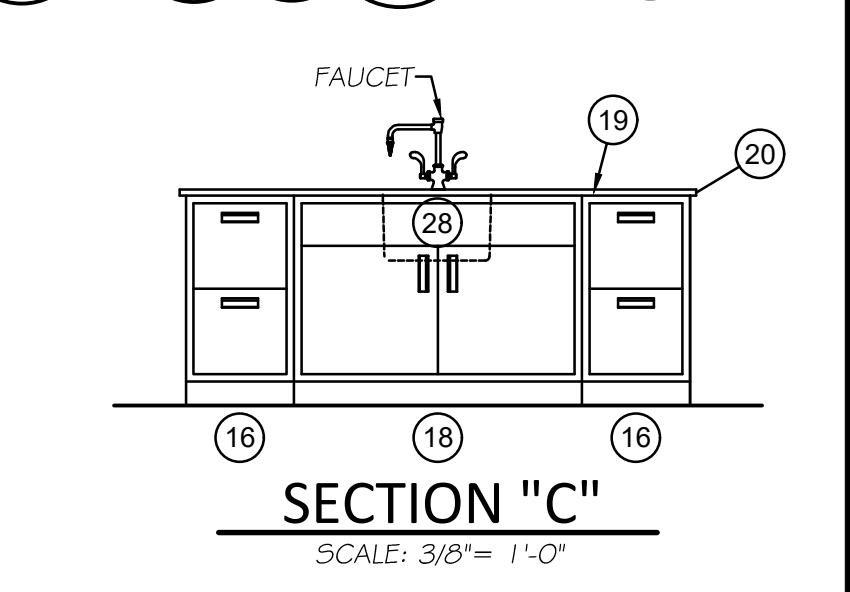
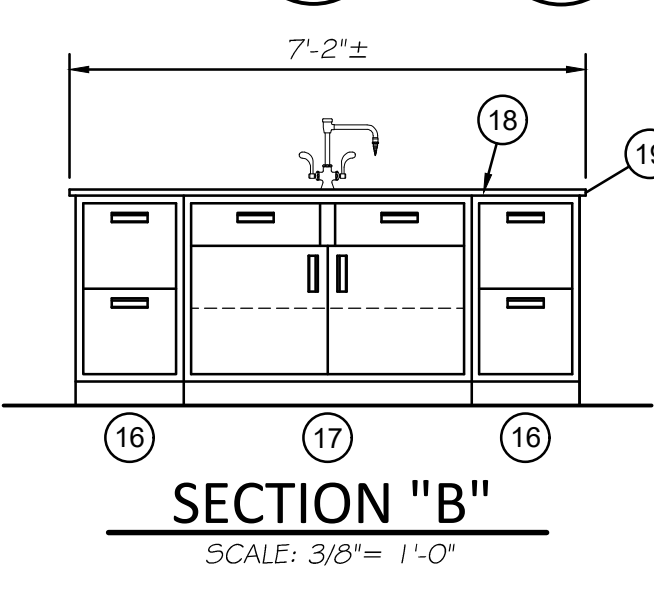
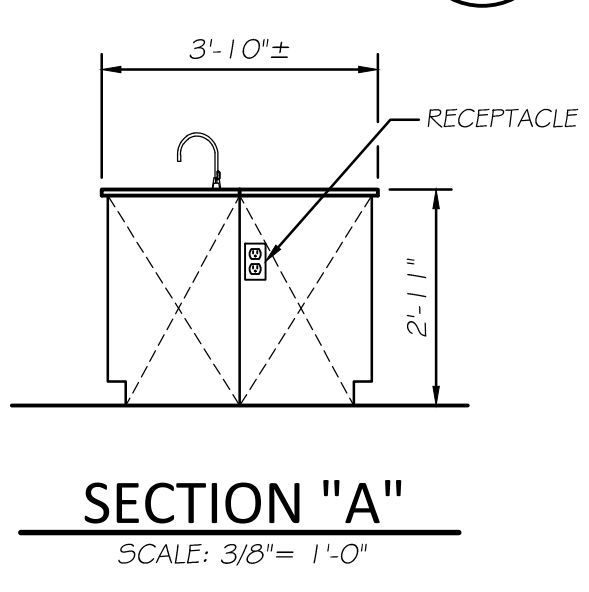
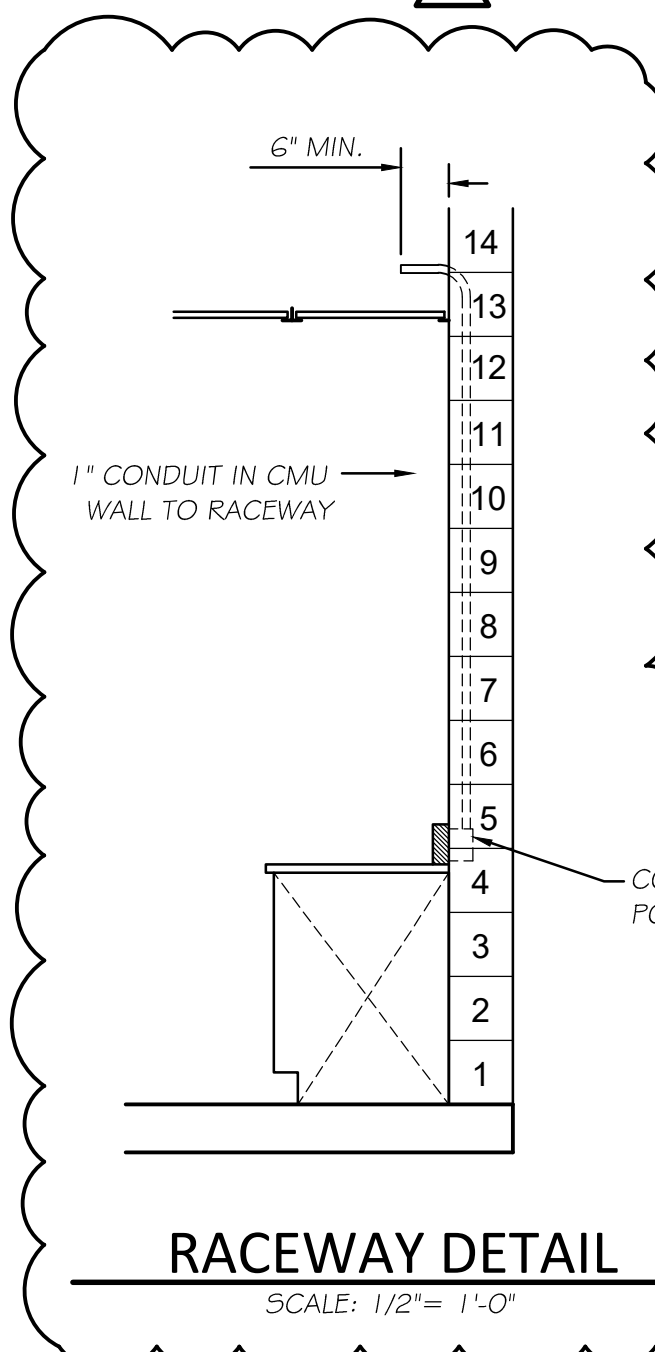
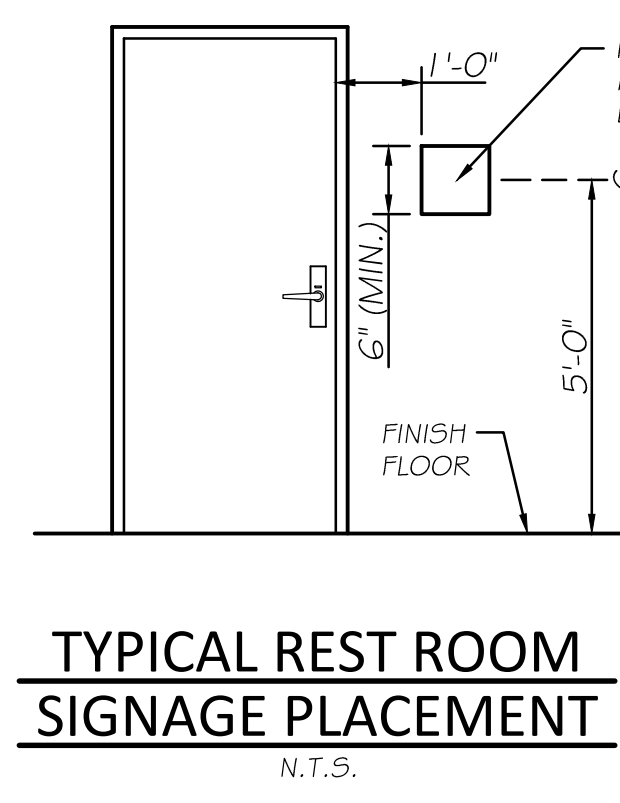
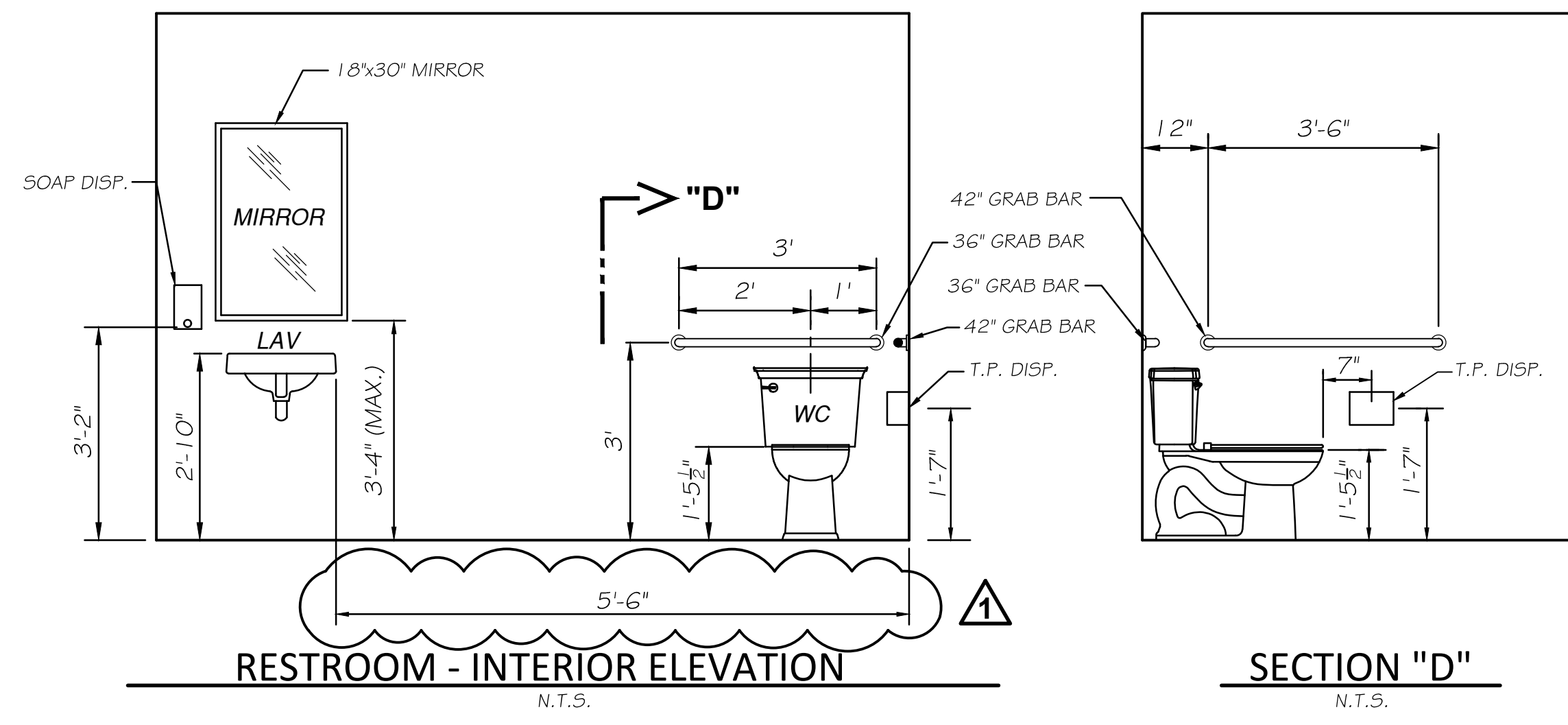
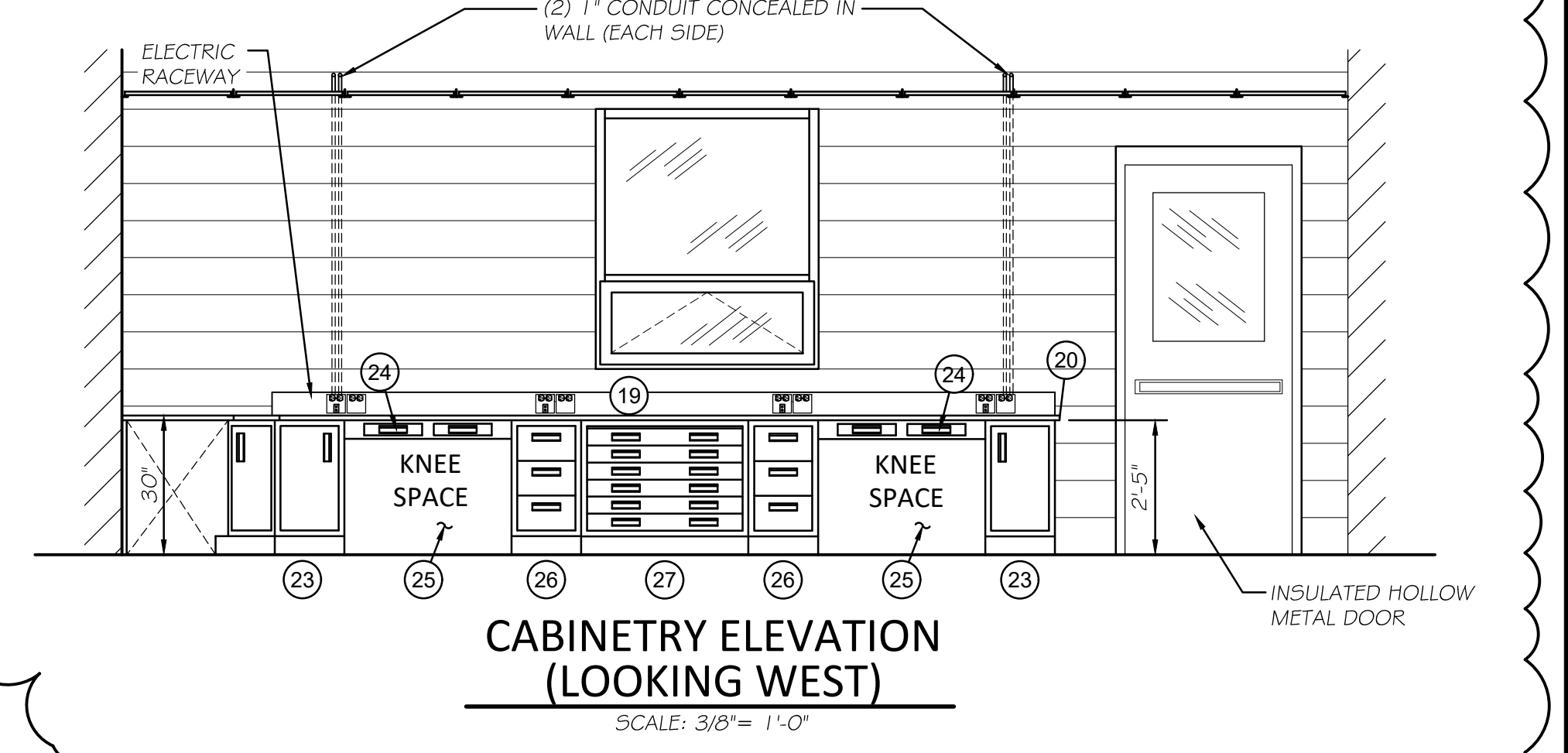
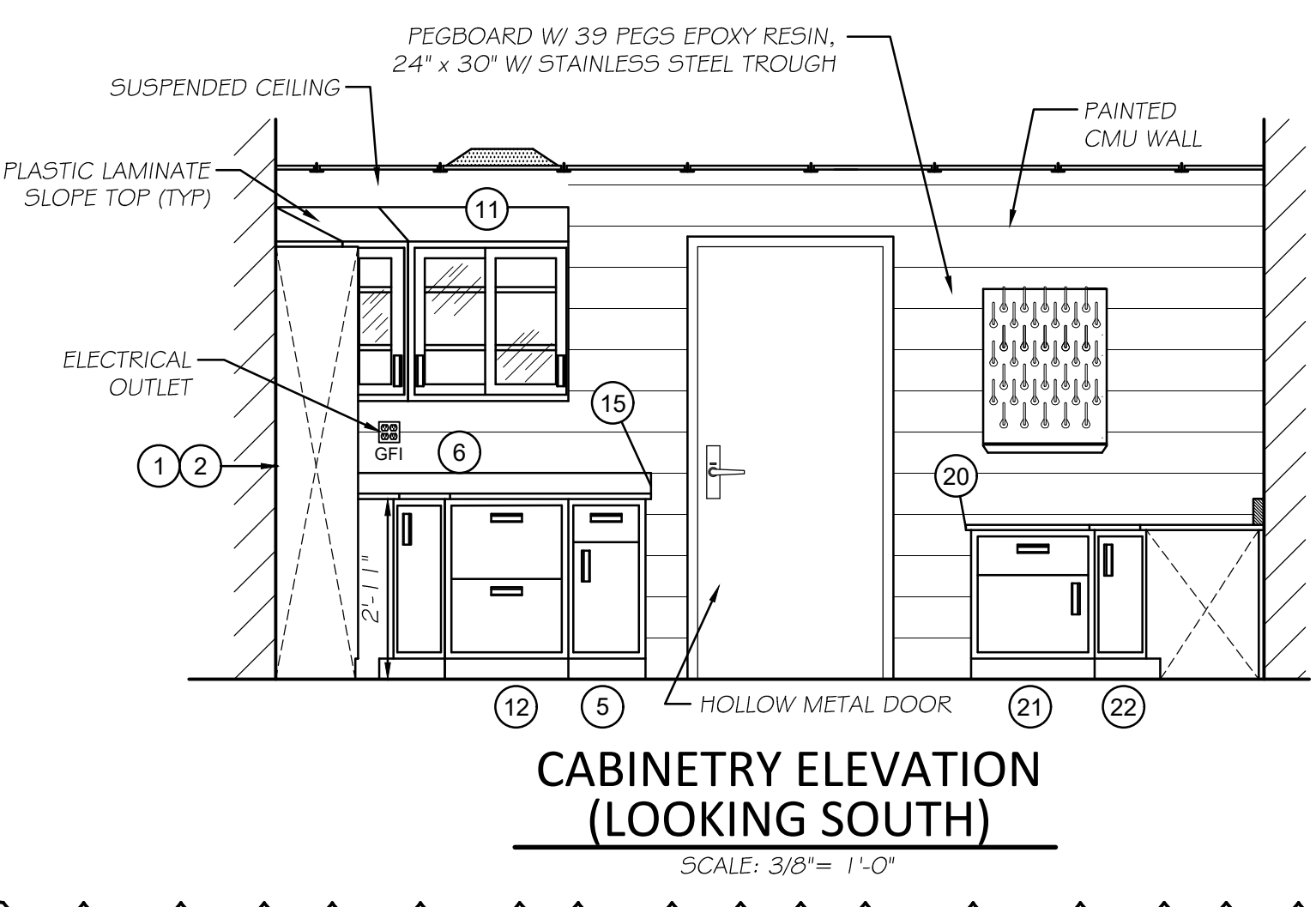
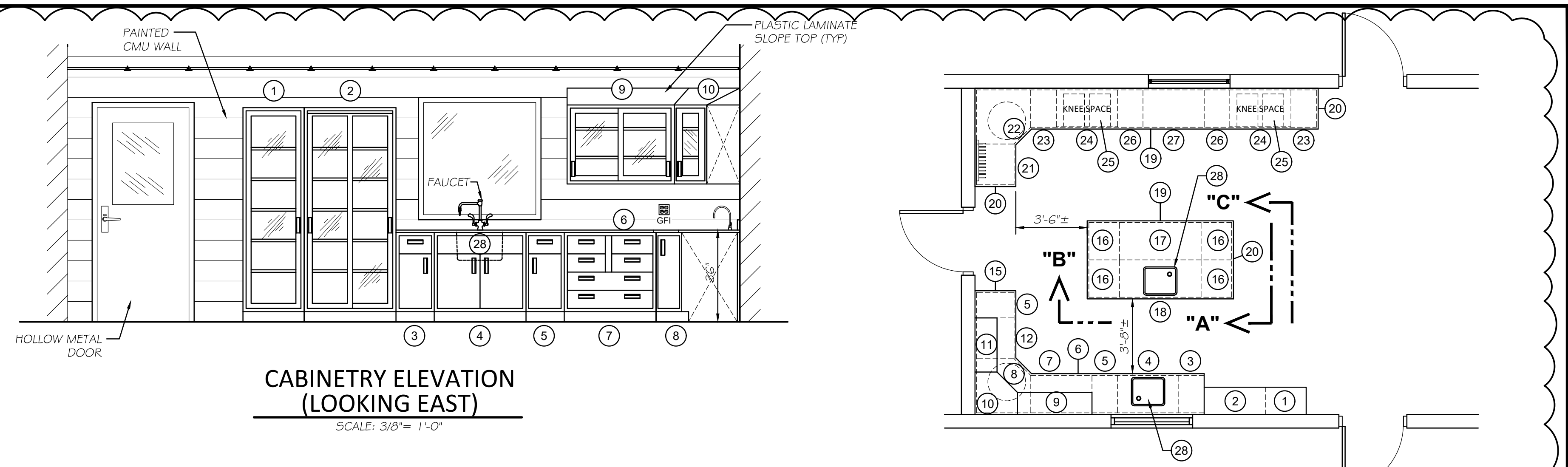


TYPICAL CONTINUOUS BAND AND QUOINING DETAIL @ SOFTENER BUILDING

CHAMLIN & ASSOCIATES, INC. © 2026. Drawing Name: G:\Users\jg\9936-02-Mazon-New Water Treatment Plant\CAD\023-ROOM & DOOR SCHEDULES.dwg. Last Modified: Wednesday, February 18, 2026 3:21:52 PM. Plotted On: Thursday, February 19, 2026 4:05:08 PM. by Josh Wankowicz

CHAMLIN & ASSOCIATES, INC. © 2026
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 Last Modified: Tuesday, March 3, 2026 2:31:46 PM
 Plotted On: Tuesday, March 3, 2026 2:32:01 PM
 by: Josh Washkowiak

LABORATORY FURNITURE SCHEDULE			
No.	SIZE	UNIT TYPE	DESCRIPTION
1	24" W.x 84" H.x 16" D.	FLOOR CASE FRM. 1-GLS. LEFT HINGED DOOR	FLOOR ENCASEMENT
2	36" W.x 84" H.x 16" D.	FLOOR CASE FRM. GLS. SLD DOORS	FLOOR ENCASEMENT
3	15" W.x 35" H.x 22" D.	1-DRAWER, 1-LEFT HINGED DOOR	STANDING HEIGHT CABINET
4	36" W.x 35" H.x 22" D.	2-DOOR SINK UNIT	STANDING HEIGHT CABINET
5	15" W.x 35" H.x 22" D.	1-DRAWER, 1-RIGHT HINGED DOOR	STANDING HEIGHT CABINET
6		1" THICK, 30" DEEP FLAT, EPOXY RESIN TOP, 4" CURB	EPOXY RESIN TOP
7	36" W.x 35" H.x 22" D.	6-DRAWER BASE UNIT W/ 2 REM. BACK PANELS	STANDING HEIGHT CABINET
8		CORNER BASE UNIT W/ LAZY SUSAN & SGL. RH DOOR	STANDING HEIGHT CABINET
9	42" W.x 30" H.x 13" D.	WALL CASE FRM. GLS. SLD DOORS	WALL HUNG ENCASEMENT
10		CORNER WALL CASE	WALL HUNG ENCASEMENT
11	30" W.x 30" H.x 13" D.	WALL CASE FRM. GLS. SLD DOORS	WALL HUNG ENCASEMENT
12	24" W.x 35" H.x 22" D.	2-DRAWER FILE UNIT W/ REM. BACK PANEL	STANDING HEIGHT CABINET
13	18" W.x 35" H.x 22" D.	1-DRAWER, 1-RIGHT HINGED DOOR	STANDING HEIGHT CABINET
14	24" W.x 35" H.x 22" D.	4-DRAWER BASE UNIT W/ REM. BACK PANEL	STANDING HEIGHT CABINET
15		1" THK, 30" DEEP FLAT, EPOXY RESIN CNR TOP, 4" CURB	EPOXY RESIN CORNER
16	18" W.x 35" H.x 22" D.	2-DRAWER FILE UNIT W/ REM. BACK PANEL	STANDING HEIGHT CABINET
17	48" W.x 35" H.x 22" D.	2-DRAWER, 2-DOOR BASE UNIT W/ 1 SHELF	STANDING HEIGHT CABINET
18	48" W.x 35" H.x 22" D.	2-DOOR SINK UNIT	STANDING HEIGHT CABINET
19		1" THICK, 30" DEEP FLAT, EPOXY RESIN TOP	EPOXY RESIN TOP
20		1" THK, 30" DEEP FLAT, EPOXY RESIN CNR TOP	EPOXY RESIN CORNER
21	24" W.x 29" H.x 22" D.	1-DRAWER, 1-LEFT HINGED DOOR	SITTING HEIGHT CABINET
22		CORNER BASE UNIT W/ LAZY SUSAN & SGL. RH DOOR	SITTING HEIGHT CABINET
23	15" W.x 29" H.x 22" D.	1-RIGHT HINGED DOOR	SITTING HEIGHT CABINET
24	36" W.x 30 1/4" H.	KNEE SPACE PANEL	KNEE SPACE DRAWER
25	36" W. x 21 1/2" D.	KNEE SPACE DRAWER & FRAME (2-DRAWER)	KNEE SPACE DRAWER
26	15" W.x 29" H.x 22" D.	3-DRAWER BASE UNIT W/ REM. BACK PANEL	SITTING HEIGHT CABINET
27	36" W.x 29" H.x 22" D.	6-DRAWER BASE UNIT W/ REM. BACK PANEL	SITTING HEIGHT CABINET
28	18" x 15" x 11" DEEP	EPOXY UNDER MOUNT SINK W/ CORNER DRAIN (COMPLETE)	EPOXY UNDER MOUNT SINK W/ CORNER DRAIN (COMPLETE)



- CABINET NOTES:**
- ALL CABINET STYLES, DOORS (INSIDE & OUT), DRAWERS, KNEE SPACE, AND ALL EXPOSED SIDES SHALL RECEIVE PLASTIC LAMINATE. COLOR SHALL BE SELECTED AT A LATER DATE BY THE OWNER FROM CONTRACTOR'S SUBMITTALS. ALL REMAINING SURFACES SHALL BE WHITE MELAMINE.
 - ALL DIMENSIONS SHOWN ARE TO FINISHED FACE.
 - CABINET DIMENSIONS ARE FOR THE PURPOSE OF ASSISTING IN GENERAL LAYOUT. THE CONTRACTOR MUST FIELD MEASURE CABINET AREA & MAKE REQUIRED ADJUSTMENTS TO CABINETS TO ASSURE PROPER INSTALLATION. VERIFY LOCATIONS AND SIZE OF ALL BREAK ROOM EQUIPMENT TO ASSURE FUTURE INSTALLATION SPECIFICATIONS WILL BE MET.
 - THE CABINET LAYOUT SHALL BE USED TO ASSIST THE CONTRACTORS IN DETERMINING A BID PRICE. THE EXACT CABINET REQUIREMENTS FOR SIZE OF DRAWERS AND DOORS SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL REFLECTING THOSE REQUIREMENTS.

- FURNITURE NOTES:**
- PROVIDE REQUIRED SINK OPENING AND FAUCET CUTOUT IN COUNTER TOP.
 - THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" VINYL BASE AT BASE OF ALL CABINETS. COLOR SHALL MATCH ADJACENT WALL BASE.
 - THE CONTRACTOR SHALL USE CABINET PLANS FOR BIDDING AND GENERAL LAYOUT. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING PROPOSED CABINET LAYOUT, APPLICABLE DIMENSIONS, & CABINET UNIT TYPES. THE APPROVED SHOP DRAWING SHALL THEN BECOME THE CONSTRUCTION PLANS.
 - CABINETS SHALL BE CONSTRUCTED OF 18 GA. STEEL FOR SIDE & BACK PANELS AND SHELVES. DRAWER & DOOR FACES SHALL BE 20 GA. STEEL.

REVISIONS	DESCRIPTION
1	ADDENDUM No. 3

PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

LAB CABINETRY AND
INTERIOR DETAILS

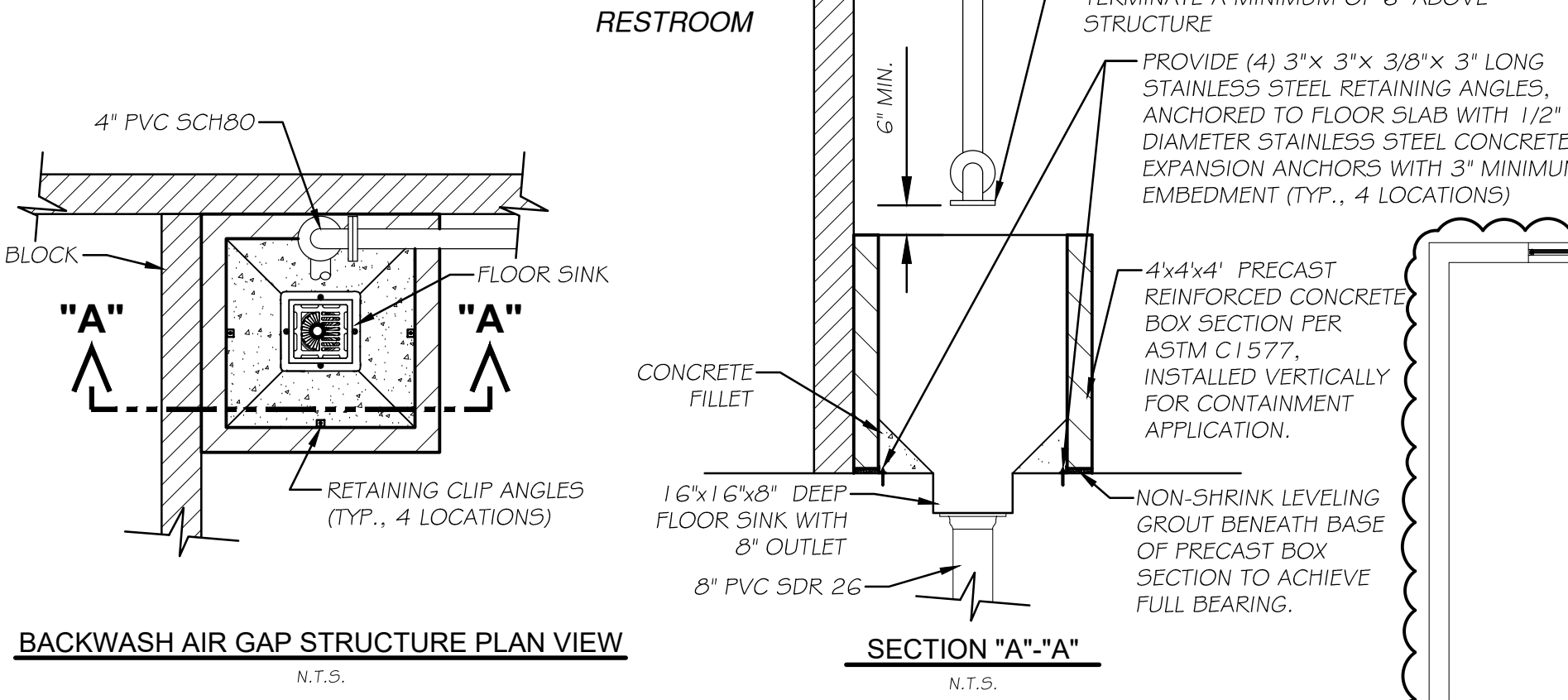
BIDDING
PLANS

CURRENT AS OF: 03/02/2026	SHEET 24
SCALE: AS NOTED	OF 55
FILE NO.: 9818.02	

PLUMBING LEGEND

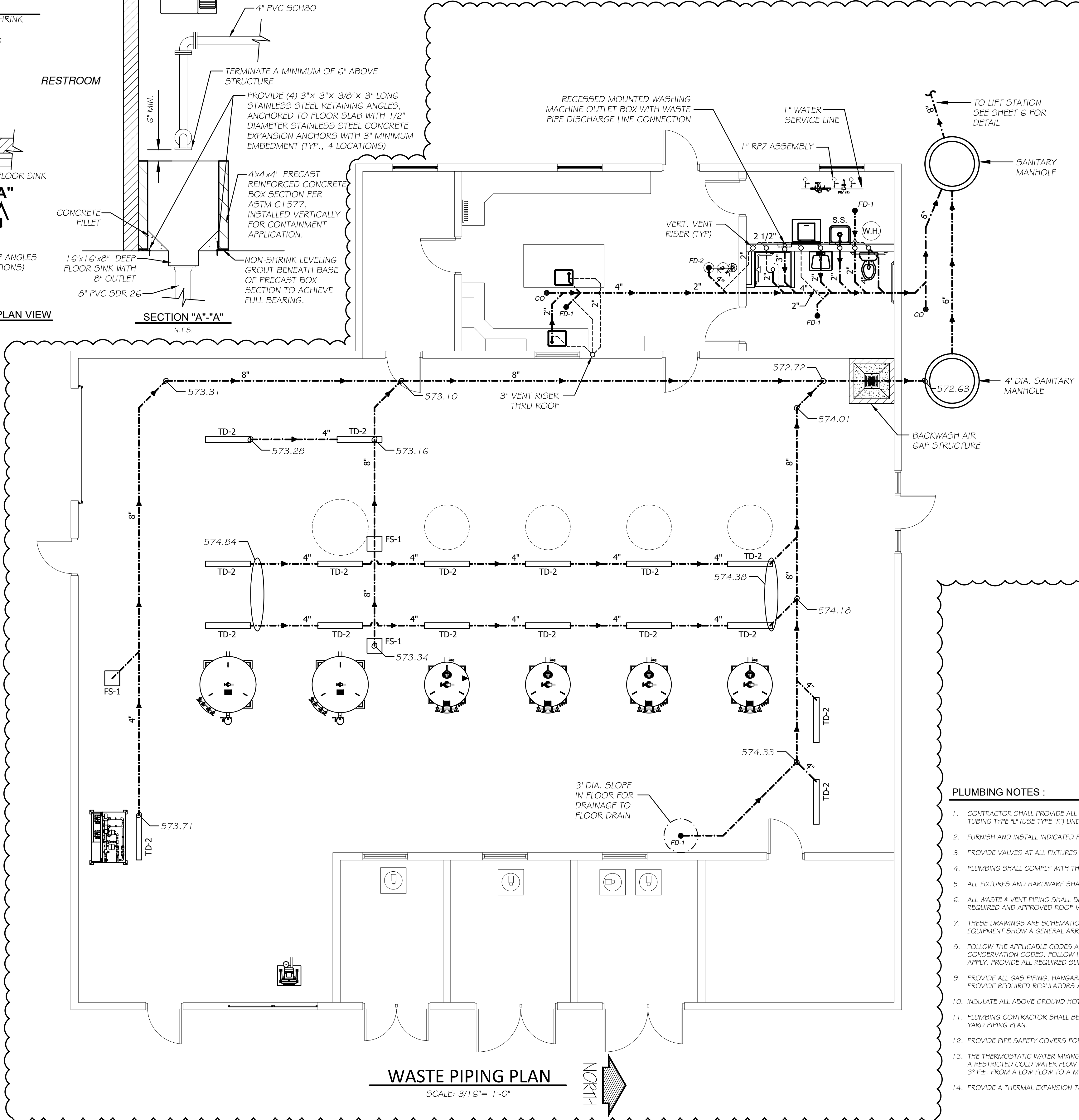
- WASTE PIPE
- VENT PIPE
- COLD WATER SUPPLY
- HOT WATER SUPPLY
- GAS PIPING
- FD-1 "WADE" No. W-1 00-A OR APPROVED EQUAL, 2" CAST IRON FLOOR DRAIN W/ 4" BRONZE TOP. (PROVIDE REQUIRED TRAP AT EACH UNIT)
- FD-2 "WADE" No. W-1 00-A OR APPROVED EQUAL, 4" CAST IRON FLOOR DRAIN W/ 8" BRONZE TOP. (PROVIDE REQUIRED TRAP AT EACH UNIT)
- FS-1 FLOOR SINK (FS-1) "ZURN" OR APPROVED EQUAL SANI-FLO RECEPTOR 12"x12"x8" DEEP CAST IRON BODY WITH SQUARE LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, WHITE PORCELAIN ENAMEL INTERIOR AND TOP. 8" OUTLET
- TD-2 TRENCH DRAIN (TD-2) TRENCH DRAIN SHALL BE A PRESLOPED SYSTEM, POLYESTER CONCRETE, 48" LONG, END CAPS, 4" OUTLET HARDNOSE FRAME TO BE USED WITH A DUCTILE IRON GRATE HAVING A CLASS "E" LOAD RATING
- CO OR CO CAST IRON CLEAN-OUT BODY W/ CAST BRONZE TOP SECURED TO CASTING W/ SCREWS WHEN INSTALLED IN FINISHED CONCRETE OR PVC CLEAN-OUT WITH SCREW-ON CAP WHEN PLACED IN YARD (UNLESS NOTED OTHERWISE). PROVIDE WALL CLEANOUT & ROUND ACCESS COVER WHERE SHOWN.
- WC WATER CLOSET - "AMERICAN STANDARD" "CADET OVATION" (OR APPROVED EQUAL), WHITE VITREOUS CHINA, ELONGATED BOWL, 12" ROUGH-IN, 16 1/2" RIM HEIGHT, 1.6 GPF. W/ OPEN FRONT SEAT (VERIFY LEVER SIDE REQUIRED).
- LAV LAVATORY - "AMERICAN STANDARD" "LUCERNE" (BARRIER FREE), WHITE VITREOUS CHINA WALL HUNG W/ CARRIER, OFFSET DRAIN, ANGLE SUPPLIES WITH STOPS AND "AMERICAN STANDARD" "MONTERREY" LAVATORY FAUCET. PROVIDE APPROVED INSULATED COVERS ON ALL EXPOSED PIPES.
- S.S. SERVICE SINK "AMERICAN STANDARD" OR APPROVED EQUAL MODEL 7692.008 "LAKEWELL" W/ 3" TRAP STAND, STAINLESS STEEL RIM GUARDS AND ENAMELED TRAP WITH STRAINER. PROVIDE WALL HANGER AND "AMERICAN STANDARD" NO. 8354.1 1/2 (8") FAUCET WITH CAST BRASS SPOUT WITH BUCKET HOOK, WALL BRACE AND ROUGH CHROME FINISH.
- SINK UNDER COUNTER SINK - (SEE LAB CABINERY PLAN FOR SPECS.) PROVIDE REQUIRED STRAINER & PIPING
- GRAB BARS 1 1/4" DIA., HEAVY DUTY 304 STAINLESS STEEL, CONCEALED MOUNTED AND STANDARD SATIN FINISH. LENGTH OF GRAB BARS SHALL BE 36" BEHIND W.C. AND 42" ON THE SIDE WALL WITH THE WATER CLOSET.
- MIRROR "BOBRICK" MODEL #B-1 G5 24"x36", 304 STAINLESS STEEL, SATIN FINISH W/ CONCEALED MOUNTING BRACKET. MOUNT AS REQUIRED BY THE ILLINOIS ACCESSIBILITY CODE. (TYP @ EACH LAVATORY)
- TOILET PAPER DISPENSER "BOBRICK" MODEL #B-2G5 SURFACE MOUNTED, MULTI-ROLLED, TISSUE DISPENSER WITH CONTROLLED DELIVERY. 1 PER WATER CLOSET STALL (LOCATE IN THE FIELD)
- W.H. "A.O. SMITH" - PROLINE GVL-40 (OR APPROVED EQUAL) 40 GAL. GAS WATER HEATER, POWER VENTED, 45 GAL PER HOUR RECOVERY W/ 90° TEMP RISE. PROVIDE RELIEF VALVE DISCHARGE PIPE, ISOLATION VALVES AND THERMAL EXPANSION TANK.
- WH-FP WALL HYDRANT "ZURN" - Z1321-C STAINLESS FACE W/ ANGLED NOZZLE, AUTOMATIC DRAINING AND ANTI-SIPHON. PROVIDE OPERATING KEY.
- SHOWER STALL "E.L. MUSTEE & SONS, INC." (37"x39") WHITE CAREGIVER TRANSFER SHOWER FLOOR MODEL 3739M SHOWER FLOOR TO BE ONE PIECE, MOLDED FIBERGLASS. SURFACE TO BE SLIP-RESISTANT AND 1/2" FRONT CURB (CENTER DRAIN). PROVIDE 260 SERIES DURAWALL SHOWER WALLS, 5-PIECE THERMOPLASTIC MATERIAL WHICH INCLUDES (2) CORNER PANELS, ALSO INCLUDE NO.390, 304 STAINLESS STEEL, 1 1/2" GAUGE 18"x34" GRAB BAR. INSTALL DRAIN ASSEMBLY #42.3 17A. PROVIDE "AMERICAN STANDARD" #TU6625G.2 1 1/2 SHOWER KIT (HAND SHOWER, 36" VERT SLIDE-GRAB BAR, RELIANT 3 VALVE), SHOWER SEAT TO BE FURNISHED BY OWNER.
- LAB SINK FAUCET "CHICAGO FAUCET" 900 SERIES, NO. 930-317XKCF, SINGLE-HOLE, DECK MOUNTED, RIGID/SWING GOOSENECK SPOUT, ATMOSPHERIC VACUUM BREAKER, 4" WRISTBLADE HANDLES.
- TEMPERED MIXING VALVES PROVIDE THERMOSTATIC HIGH-LOW TEMPERED WATER MIXING VALVE AS MANUFACTURED BY BRADLEY, POWERS, OR LAWLOR @ LAVATORIES AND SHOWER.
- EM SHOWER COMBINATION SHOWER AND EYEWASH STATION (SEE SPECS).

NOTE: LEVEL PRECAST STRUCTURE USING NON-SHRINK GROUT (ASTM C 1107). GROUT AND SEAL PERIMETER TO ACHIEVE FULL BEARING AND CONTAINMENT.



BACKWASH AIR GAP STRUCTURE PLAN VIEW N.T.S.

SECTION "A"-"A" N.T.S.



WASTE PIPING PLAN SCALE: 3/16" = 1'-0"

PLUMBING NOTES :

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- FURNISH AND INSTALL INDICATED PLUMBING FIXTURES COMPLETE WITH FAUCETS, STOP VALVES, AND TRAPS.
- PROVIDE VALVES AT ALL FIXTURES AND BRANCH PIPING AS REQUIRED TO ACCOMPLISH INDIVIDUAL FIXTURE ISOLATION THROUGHOUT.
- PLUMBING SHALL COMPLY WITH THE MOST RECENT ILLINOIS STATE PLUMBING CODE.
- ALL FIXTURES AND HARDWARE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE AND A.D.A.
- ALL WASTE & VENT PIPING SHALL BE INSTALLED AT (1/8") PER FT. SLOPE. VENT STACKS SHALL INCREASE, WHERE INDICATED, THRU ROOF & BE CONCEALED IN WALLS WHERE FEASIBLE OR AS APPROVED OTHERWISE. PROVIDE REQUIRED AND APPROVED ROOF VENT FLASHING FOR EACH VENT STACK PENETRATION. ALSO, DO NOT INSTALL WATER SUPPLY PIPING WITHIN EXTERIOR WALLS OR WHERE PIPING WILL BE EXPOSED TO EXTREME TEMPERATURES.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND REPRESENT A COMPLETE PROJECT. MODIFICATIONS TO THE WORK SHALL BE PROVIDED BY THIS CONTRACTOR TO COMPLY WITH PROJECT REQUIREMENTS. LOCATIONS OF EQUIPMENT SHOW A GENERAL ARRANGEMENT AND INTENDED FUNCTION. BEFORE INSTALLING EQUIPMENT, CHECK DOOR OPERATIONS AND ALL REQUIRED CLEARANCES TO AVOID INTERFERENCE WITH OTHER TRADES.
- FOLLOW THE APPLICABLE CODES AND OBTAIN NECESSARY PERMITS AND INSPECTIONS. APPLICABLE CODES INCLUDE, BUT NOT LIMITED TO THE INTERNATIONAL BUILDING, MECHANICAL, FUEL GAS, AND INTERNATIONAL ENERGY CONSERVATION CODES. FOLLOW INDUSTRY STANDARDS, INCLUDING ASHRAE, SMACNA, ANSI, ASME, ECT. COMPLY WITH ADDITIONAL COUNTY AND STATE OF ILLINOIS APPLICABLE CODES. THE MOST STRINGENT CODE SHALL APPLY. PROVIDE ALL REQUIRED SUBMITTALS FOR REVIEW AND APPROVAL.
- PROVIDE ALL GAS PIPING, HANGARS, AND SUPPORTS. GAS PIPING TO HAVE ISOLATION VALVES, DIRT LEG, AND UNIONS (IN THAT ORDER) AT ALL EQUIPMENT. PIPING TO BE BLACK IRON, SCHEDULE 40 WITH THREADED FITTINGS. PROVIDE REQUIRED REGULATORS AT EACH GAS OPERATED EQUIPMENT SPECIFIED.
- INSULATE ALL ABOVE GROUND HOT / COLD WATER LINES IN BUILDINGS WITH FIBERGLASS WRAP OR FOAM INSULATION.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE WATER SUPPLY AND WASTE PIPING TO ALL AREAS SHOWN ON THE PLAN. WASTE PIPING SHALL BE CONNECTED TO THE SANITARY SERVICE LINE. SEE YARD PIPING PLAN.
- PROVIDE PIPE SAFETY COVERS FOR SUPPLY & WASTE PIPING AS REQUIRED BY THE ILLINOIS STATE PLUMBING CODE. COVERS SHALL BE MANUF. BY "PLUMBEREX SPECIALTY PRODUCTS, INC." OR APPROVED EQUAL.
- THE THERMOSTATIC WATER MIXING VALVE SHALL CONSIST OF A LIQUID FILLED THERMAL MOTOR AND PISTON CONTROL MECHANISM WITH POSITIVE SHUT OFF HOT WATER WHEN COLD WATER SUPPLY IS LOST. VALVE ALLOWS A RESTRICTED COLD WATER FLOW IN THE EVENT OF LOSS OR INTERRUPTION OF THE HOT WATER SUPPLY. ALL WATER FLOW IS SHUT OFF IN THE EVENT OF THERMOSTAT FAILURE. VALVE SHALL CONTROL TEMPERATURE WITHIN 3°F. FROM A LOW FLOW TO A MAXIMUM FLOW RATE FOR A GIVEN PRESSURE DIFFERENTIAL PER THE FLOW CAPACITY CHART.
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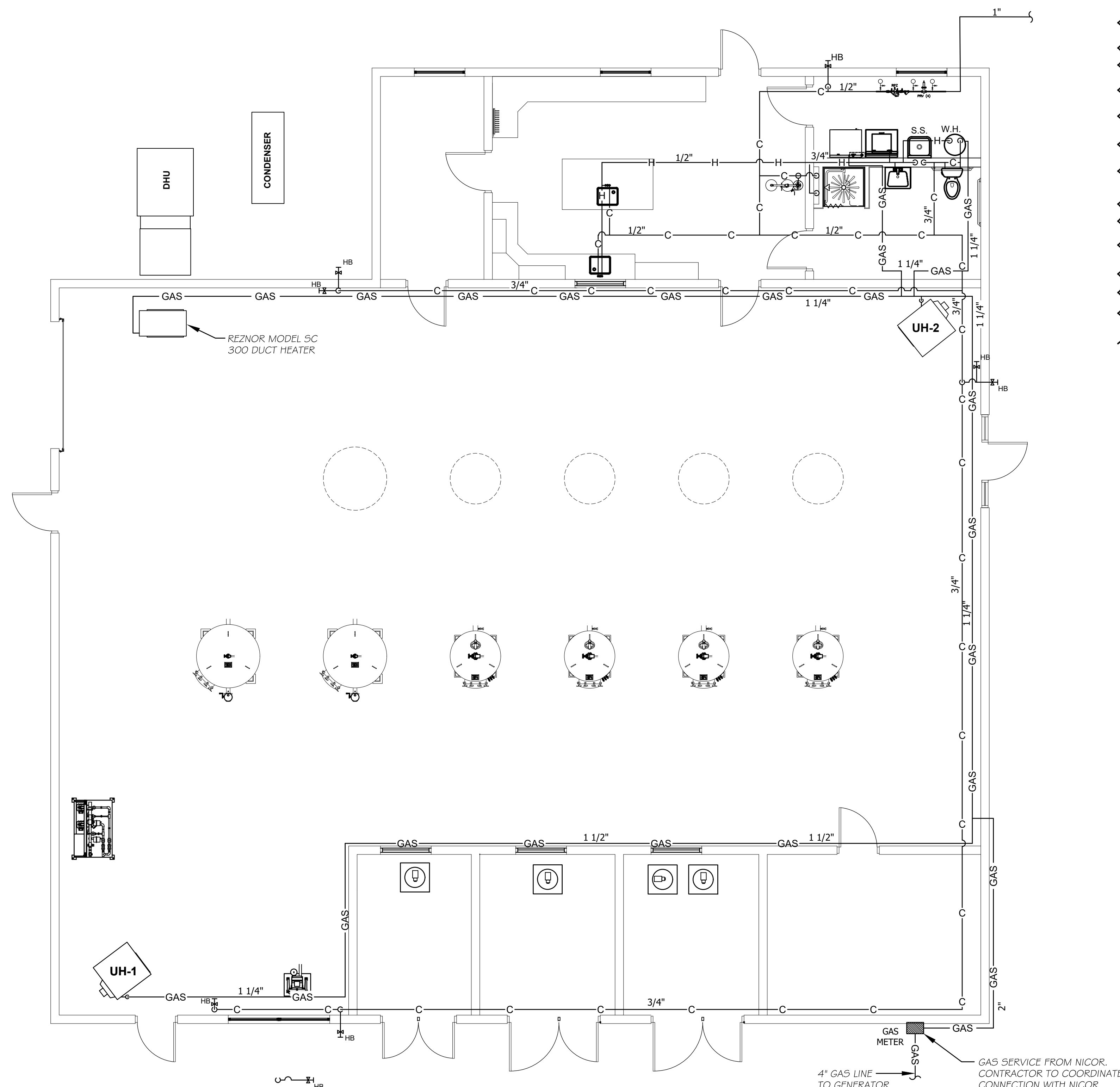
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by: Josh Washkowiak

DRAWN BY: JJC CHECKED BY: RTB DATE: 06/2024	<table border="1"> <thead> <tr> <th>LEVEL</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>JJC</td> <td>02/23/26</td> <td>ADDENDUM No. 2</td> </tr> <tr> <td>2</td> <td>JJW</td> <td>03/02/26</td> <td>ADDENDUM No. 3</td> </tr> </tbody> </table>	LEVEL	BY	DATE	DESCRIPTION	1	JJC	02/23/26	ADDENDUM No. 2	2	JJW	03/02/26	ADDENDUM No. 3	 PERU MORRIS OTTAWA MENDOTA ILLINOIS	VILLAGE OF MAZON NEW WATER TREATMENT PLANT 2026	WTP BUILDING WASTE PIPING PLUMBING PLAN	BIDDER'S PLANS CURRENT AS OF: 03/02/2026 SCALE: AS NOTED FILE NO.: 9936.02 Y- OF 55
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2	JJW	03/02/26	ADDENDUM No. 3														

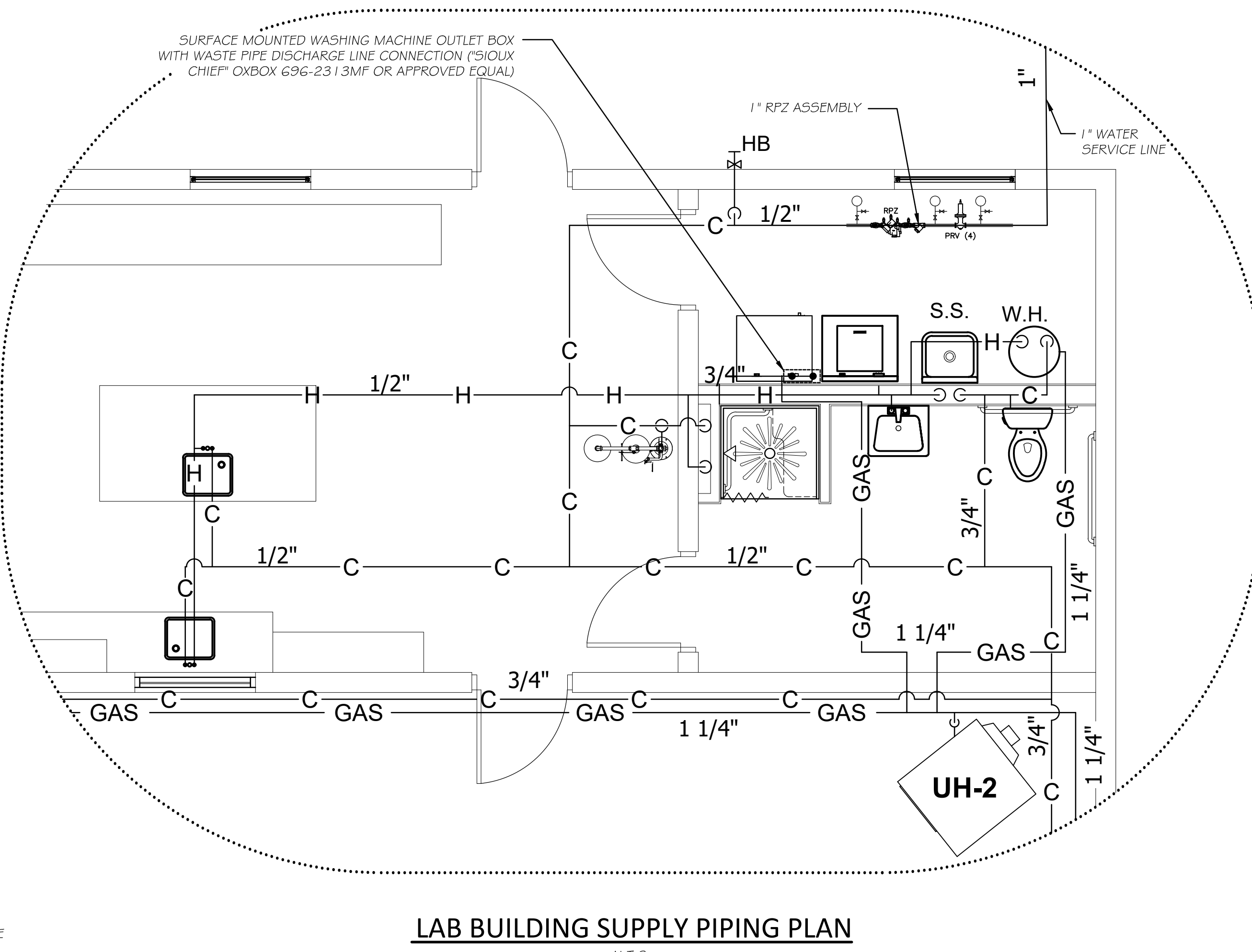
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 Plotted On: Friday, March 6, 2026 2:15:10 PM
 by: Josh Washkowiak

PLUMBING NOTES :

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12. PROVIDE PIPE SAFETY COVERS FOR SUPPLY & WASTE PIPING AS REQUIRED BY THE ILLINOIS STATE PLUMBING CODE. COVERS SHALL BE MANUF. BY "PLUMBEREX SPECIALTY PRODUCTS, INC." OR APPROVED EQUAL.
13. THE THERMOSTATIC WATER MIXING VALVE SHALL CONSIST OF A LIQUID FILLED THERMAL MOTOR AND PISTON CONTROL MECHANISM WITH POSITIVE SHUT OFF HOT WATER WHEN COLD WATER SUPPLY IS LOST. VALVE ALLOWS A RESTRICTED COLD WATER FLOW IN THE EVENT OF LOSS OR INTERRUPTION OF THE HOT WATER SUPPLY. ALL WATER FLOW IS SHUT OFF IN THE EVENT OF THERMOSTAT FAILURE. VALVE SHALL CONTROL TEMPERATURE WITHIN 3° F±. FROM A LOW FLOW TO A MAXIMUM FLOW RATE FOR A GIVEN PRESSURE DIFFERENTIAL PER THE FLOW CAPACITY CHART.
14. PROVIDE A THERMAL EXPANSION TANK ON EACH WATER HEATER SYSTEM AS MANUFACTURED BY AMTROL OR APPROVED EQUAL.
15. CONTRACTOR SHALL VERIFY REQUIRED GAS PIPE SERVICE SIZE WITH PROVIDER. INTERIOR PIPE SIZES SHOWN ARE BASED ON ASSUMED GAS LOADS, BUT SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION.



SUPPLY PIPING PLAN
 SCALE: 3/16" = 1'-0"
 NORTH



LAB BUILDING SUPPLY PIPING PLAN
 N.T.S.

DRAWN BY: JJC CHECKED BY: --- DATE: 06/2024	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>JJC</td> <td>02/23/26</td> <td>ADDENDUM No. 2</td> </tr> <tr> <td>2</td> <td>JJW</td> <td>03/02/26</td> <td>ADDENDUM No. 3</td> </tr> </tbody> </table>	REVISIONS		DATE	DESCRIPTION	1	JJC	02/23/26	ADDENDUM No. 2	2	JJW	03/02/26	ADDENDUM No. 3	 PERU MORRIS OTTAWA MENDOTA ILLINOIS	VILLAGE OF MAZON NEW WATER TREATMENT PLANT 2026	WTP BUILDING SUPPLY PIPING PLUMBING PLAN	BIDDING PLANS CURRENT AS OF: 03/02/2026 SCALE: AS NOTED FILE NO.: 9936.02	SHEET 26 OF 55
REVISIONS		DATE	DESCRIPTION															
1	JJC	02/23/26	ADDENDUM No. 2															
2	JJW	03/02/26	ADDENDUM No. 3															

HVAC NOTES :

1. CONTRACTOR IS RESPONSIBLE FOR ALL TRANSITIONS, DUCT SIZING CHANGES, AND MODIFICATIONS REQUIRED TO MAKE PROPER CONNECTION TO THE INLINE HEATER
2. CONTRACTOR SHALL PROVIDE REQUIRED GAS PRESSURE REGULATOR FOR EACH PIECE OF GAS-FIRED EQUIPMENT
3. ALL WALL PENETRATIONS SHALL BE SEALED AIRTIGHT AND VAPOR-TIGHT USING CHEMICALLY RESISTANT MATERIALS COMPATIBLE WITH THE CHEMICALS STORED
4. INDOOR MINI-SPLIT UNITS SHALL BE ELECTRICALLY POWERED FROM THE ASSOCIATED OUTDOOR CONDENSING UNIT. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AND SHALL COORDINATE FINAL ROUTING PER THE MANUFACTURER'S REQUIREMENTS.

DUCT HEATER SHALL BE AS LISTED.

P:Mazon WTP | Q:427027 | D:SC-200



Included Options for SC-200

AA1 Unit equipped for natural gas heating. Natural gas is a naturally occurring gas mixture consisting primarily of methane and includes varying volumes of alkanes, carbon dioxide, nitrogen, and hydrogen sulfide. 1 Therm = 100,000 BTU = 29.3kWh

AB1 Burner orifices for elevations 0-2000 Feet

AC2 Heat exchanger is manufactured from die-formed halves of 409 E-3 Stainless Steel. Design for improved corrosion resistance over standard heat exchanger material.

AD2 Units supplied with steel die-formed atmospheric burners constructed with 409 E-3 stainless steel ribbon inserts. Burners are designed with a die-formed flared venturi inlet ports. Units provided with 409 E-3 stainless steel burner body construction.

AE1 Standard Burner no air shutters

AF2 Burner drip pan and unit bottom panel of 409 E-3 stainless steel are provided to manage condensation from heat exchanger cells.

AG2 Gas controls designed for recirculating air heating application. Furnace is provided with a 24 volt, two-stage combination gas valve which provides for low fire or high fire operation controlled by a two-stage 24 volt thermostat. The firststage low fire is factory preset and not field adjustable. The valve includes a servo regulator which controls both high and low stages, maintaining constant gas input under wide variations in gas supply pressure. This valve also includes the safety pilot valve, and the manual shutoff valve.

AGA US CERTIF TO ANSI STD AGA

AH2 Spark-ignited, intermittent safety pilot with electronic flame supervision

AJ1 Left side control location facing airstream standard

AK1 115 Volt, Single Phase, 60 cycle supply voltage.

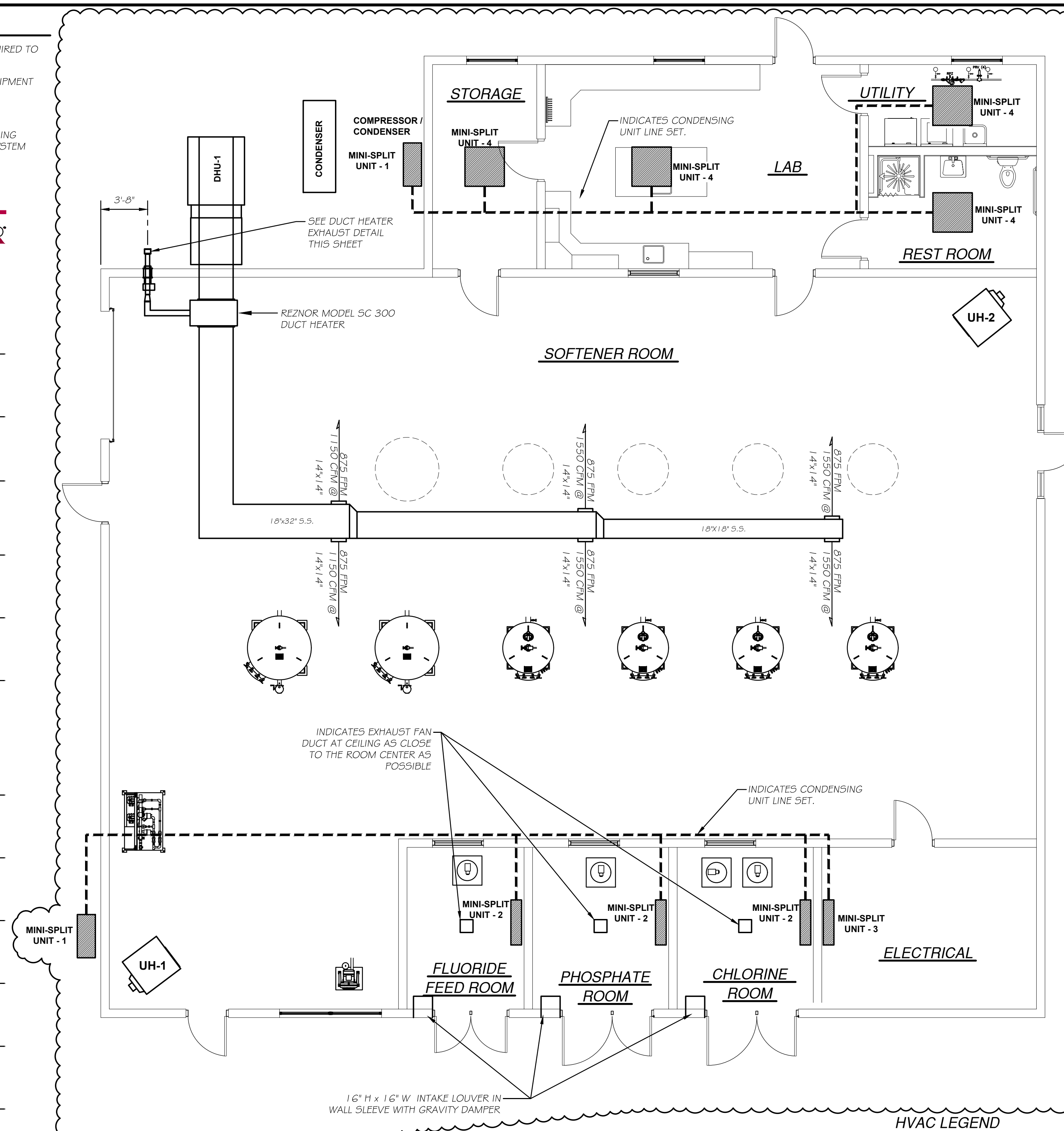
BG3B START RELAY, 24V SIGNAL BY OTHERS

BP4 High and Low gas manifold pressure switches. The auto reset low pressure switch will shut off the gas to the manifold when the gas pressure falls below 50% of the maximum manifold pressure. The manual reset high pressure switch will shut off gas to the manifold when the gas pressure rise to 125% of the maximum manifold pressure. See IOM for ratings.

BW1 Air flow proving switch pressure sensitive - proves air flow across heat exchanger

CC2 Vertical vent terminal assembly

© Nortek Global HVAC, LLC.



GAS FIRED UNIT HEATERS UH-1 & UH-2

"REZNOR" MODEL UDXC-75 OR ENGINEER APPROVED EQUAL. 75,000 BTUH INPUT, 62,250 BTUH OUTPUT NATURAL GAS, .06 HP, 115V, WITH OPTIONS AG2 GAS CONTROLS FOR USE WITH 24V 2 STAGE GAS VALVE AND 2 STAGE 24V THERMOSTAT AV2 POWER VENT WITH VENT CAP FOR THROUGH WALL INSTALLATION MANUAL SHUT OFF AND UNION GAS PRESSURE REGULATOR AC2 ALUMINIZED STEEL HEAT EXCHANGER

HVAC PLAN

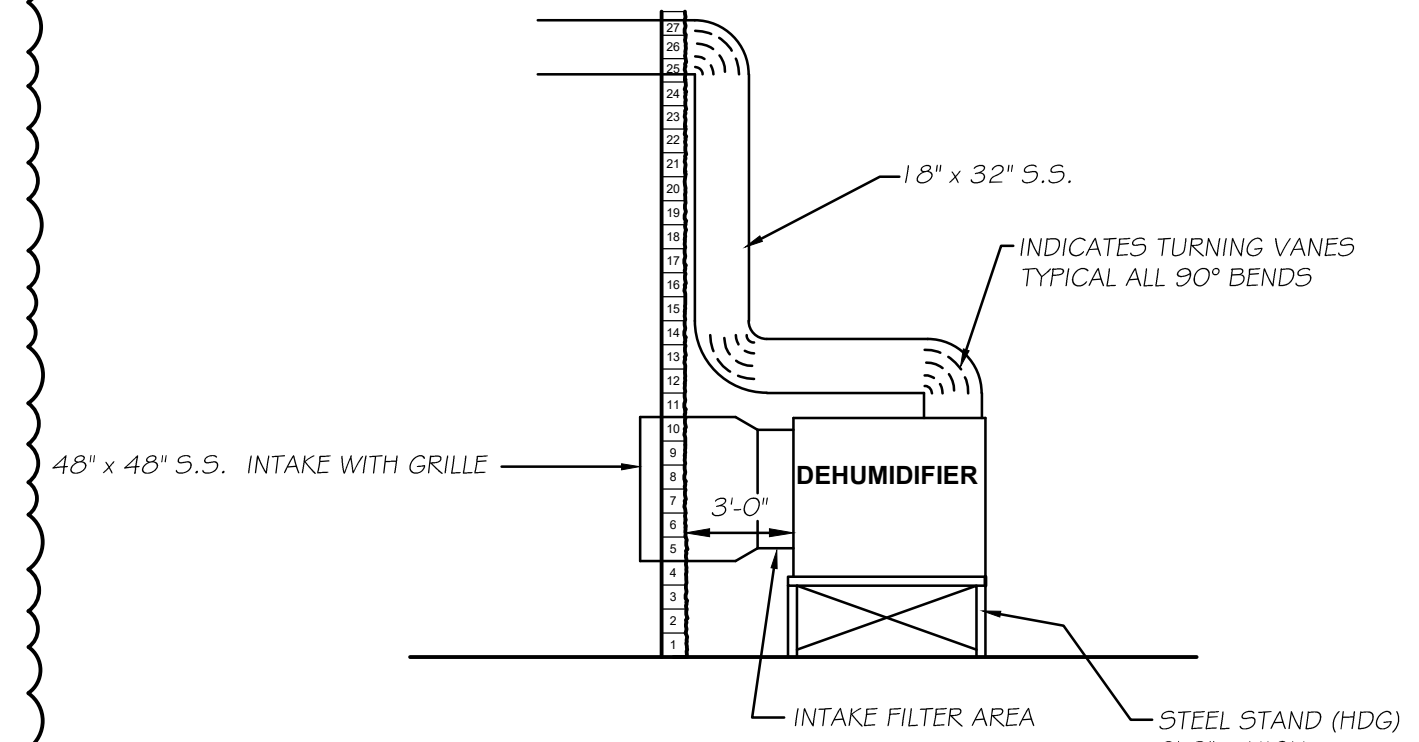
SCALE: 3/16" = 1'-0"



- HVAC LEGEND**
- DUCTLESS MINI-SPLIT (UNIT 1)
"GREE" OR APPROVED EQUAL, DUCTLESS MINI-SPLIT UNIT, MVL48HP230V1R32AO (48,000 HEATING INPUT, 48,000 COOLING INPUT) OUTDOOR UNIT, 208-230V., 1-PHASE.
 - DUCTLESS INDOOR MULTI-SPLIT (UNIT 2)
"GREE" OR APPROVED EQUAL, DUCTLESS MINI-SPLIT UNIT, VIR12HP230V1R32AH (12,000 HEATING INPUT, 12,000 COOLING INPUT) INDOOR WALL CASSETTE, 208-230V., 1-PHASE.
 - DUCTLESS INDOOR MULTI-SPLIT (UNIT 3)
"GREE" OR APPROVED EQUAL, DUCTLESS MINI-SPLIT UNIT, VIR18HP230V1R32AH (18,000 HEATING INPUT, 18,000 COOLING INPUT) INDOOR WALL CASSETTE, 208-230V., 1-PHASE.
 - DUCTLESS CEILING MULTI-SPLIT (UNIT 4)
"GREE" OR APPROVED EQUAL, DUCTLESS MINI-SPLIT UNIT, CAS24HP230V1R32AH (24,000 HEATING INPUT, 22,000 COOLING INPUT) CEILING CASSETTE, 208-230V., 1-PHASE.

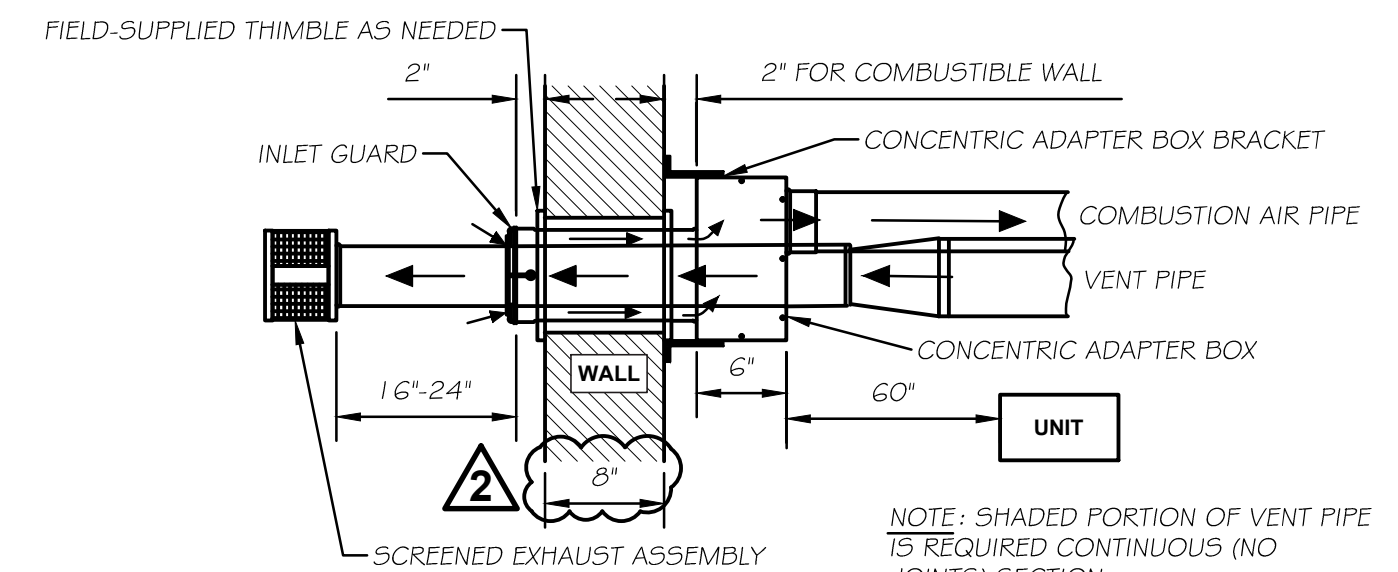
DEHUMIDIFIER DHU-1 WITH REMOTE CONDENSER

"DESERT AIRE" MODEL LW12RNN4 DEHUMIDIFIER AND MODEL RCDA4VPNN-18414PNN4 REMOTE AIR COOLED CONDENSER OR ENGINEER APPROVED EQUAL. SUPPLY AIR 690CFM, EAT: 69° F DB / 56.3° F WB. TOTAL COOLING CAPACITY 141 MBH TOTAL SENSIBLE CAPACITY 108.52 MBH. MOISTURE REMOVAL 31.2 LB/HR TOTAL HEAT REJECTION 173 MBH. STANDARD SUPPLY FILTER. 460V/3 PH/60 Hz FOR BOTH DEHUMIDIFIER AND CONDENSER TEMPERATURE AND R.H. SENSORS TO BE FACTORY INSTALLED IN UNITS. PROVIDE REMOTE DISPLAY TERMINALS MANUFACTURER-CERTIFIED START-UP THREE-YEAR EXTENDED LABOR AND PARTS WARRANTY



DEHUMIDIFIER SECTION VIEW

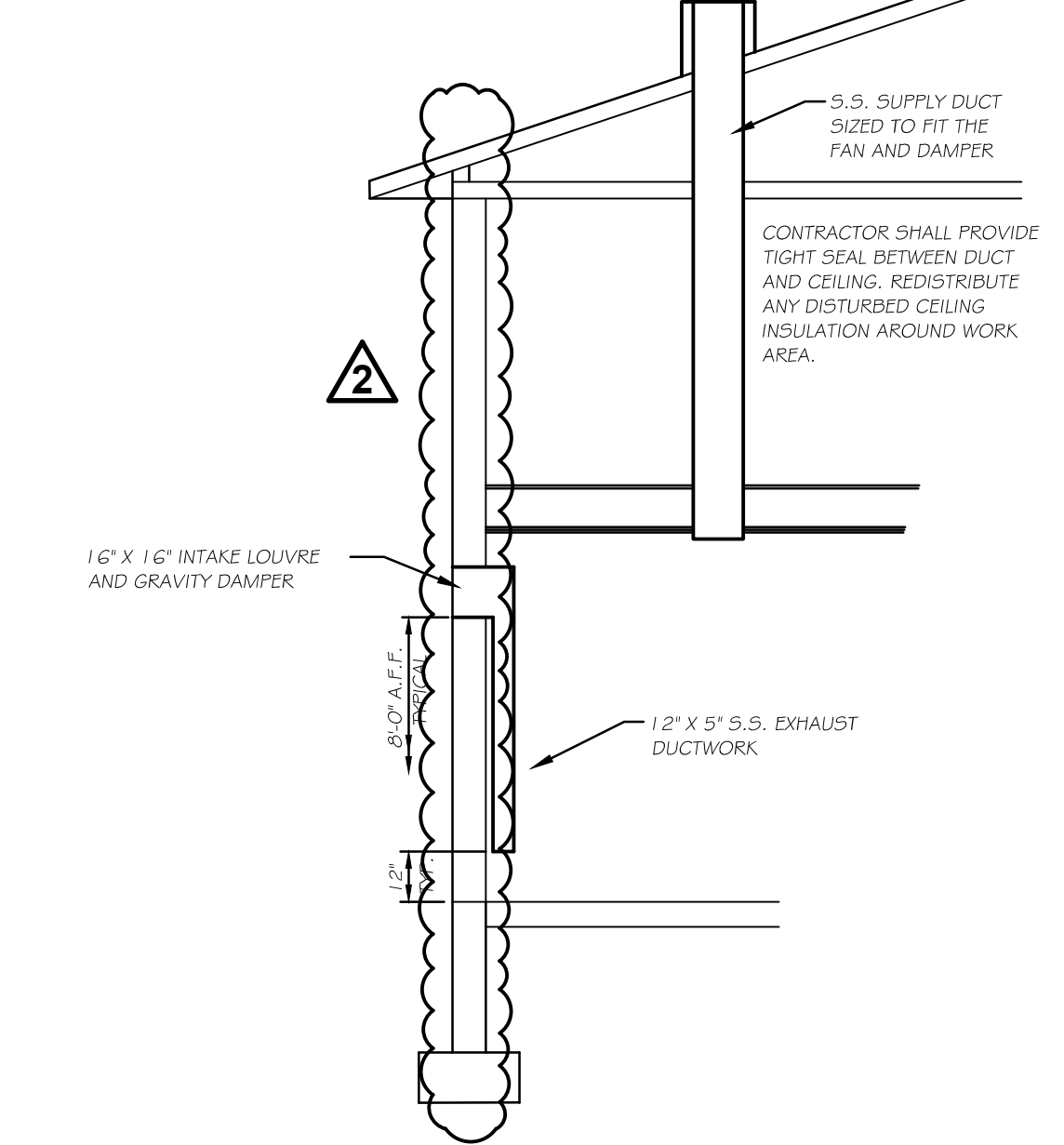
N.T.S.



DUCT HEATER EXHAUST DETAIL

N.T.S.

PLASTEC MODEL R15592P050, OR ENGINEER APPROVED EQUAL. EXHAUST FAN w/ ROOF CURB. CONTRACTOR SHALL VERIFY THE ACTUAL ROOF PITCH PRIOR TO ORDERING



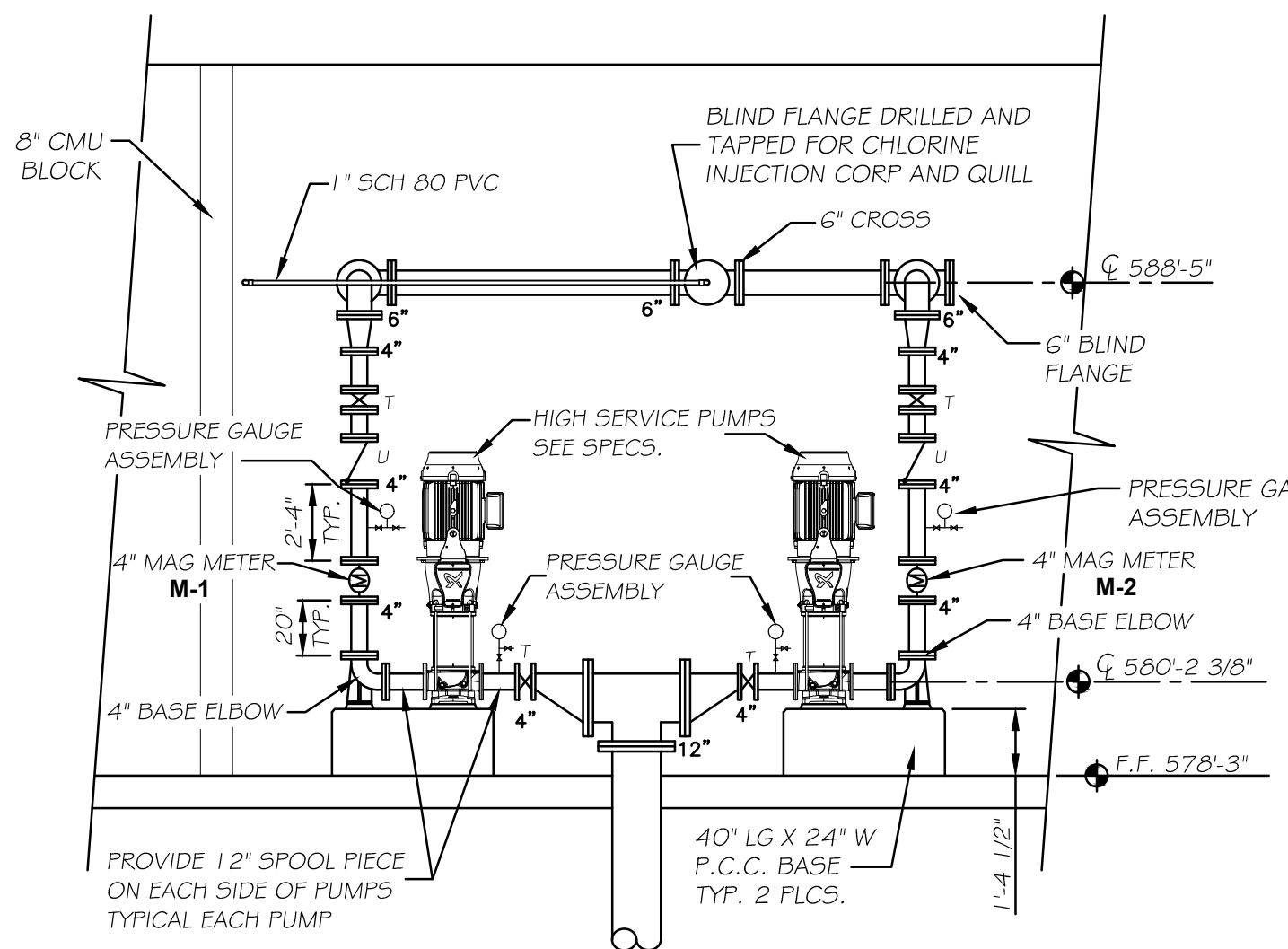
EXHAUST LOUVRE & SUPPLY FAN DETAIL

N.T.S.

CHAMLIN & ASSOCIATES, INC. © 2026 Drawing Name: G:\Users\jg\9393-02-Mazon-New Water Treatment Plant\CAD\027-WTP BUILDING HVAC PLAN.dwg Last Modified: Tuesday, March 3, 2026 3:18:48 PM by Josh Washkewick

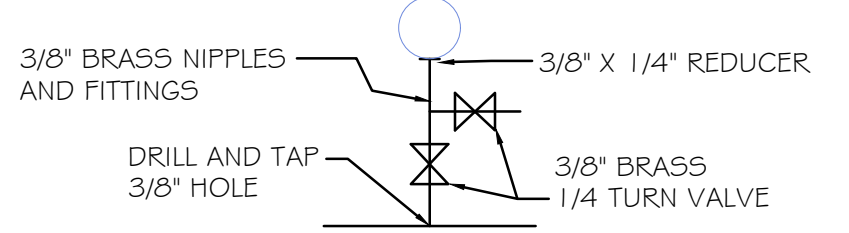
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2		2	JJW	03/02/26	ADDENDUM No. 3																									
CURRENT AS OF: 03/02/2026																														
SCALE: AS NOTED	SHEET 27																													
FILE NO.: 9936.02	OF 55																													

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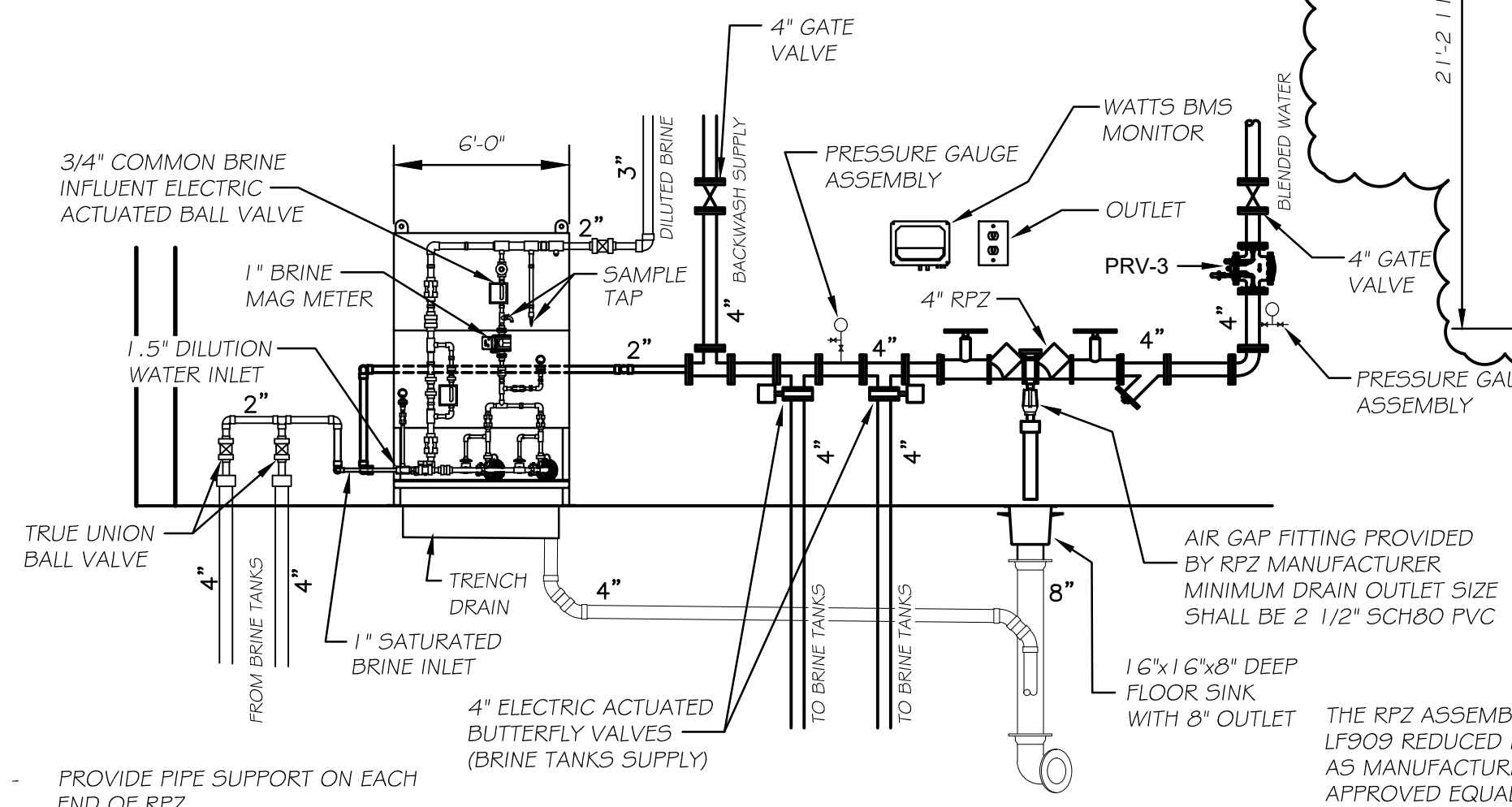
HIGH SERVICE PUMP DETAIL
N.T.S.

- T 4" MANUAL GEAR OPERATED BUTTERFLY VALVE RAW WATER INFLUENT ISOLATION VALVE WITH HANDWHEEL AND POSITION INDICATOR
- U SWING FLEX CHECK VALVES SHALL BE AS MANUFACTURED BY "VAL-MATIC" OR APPROVED EQUAL

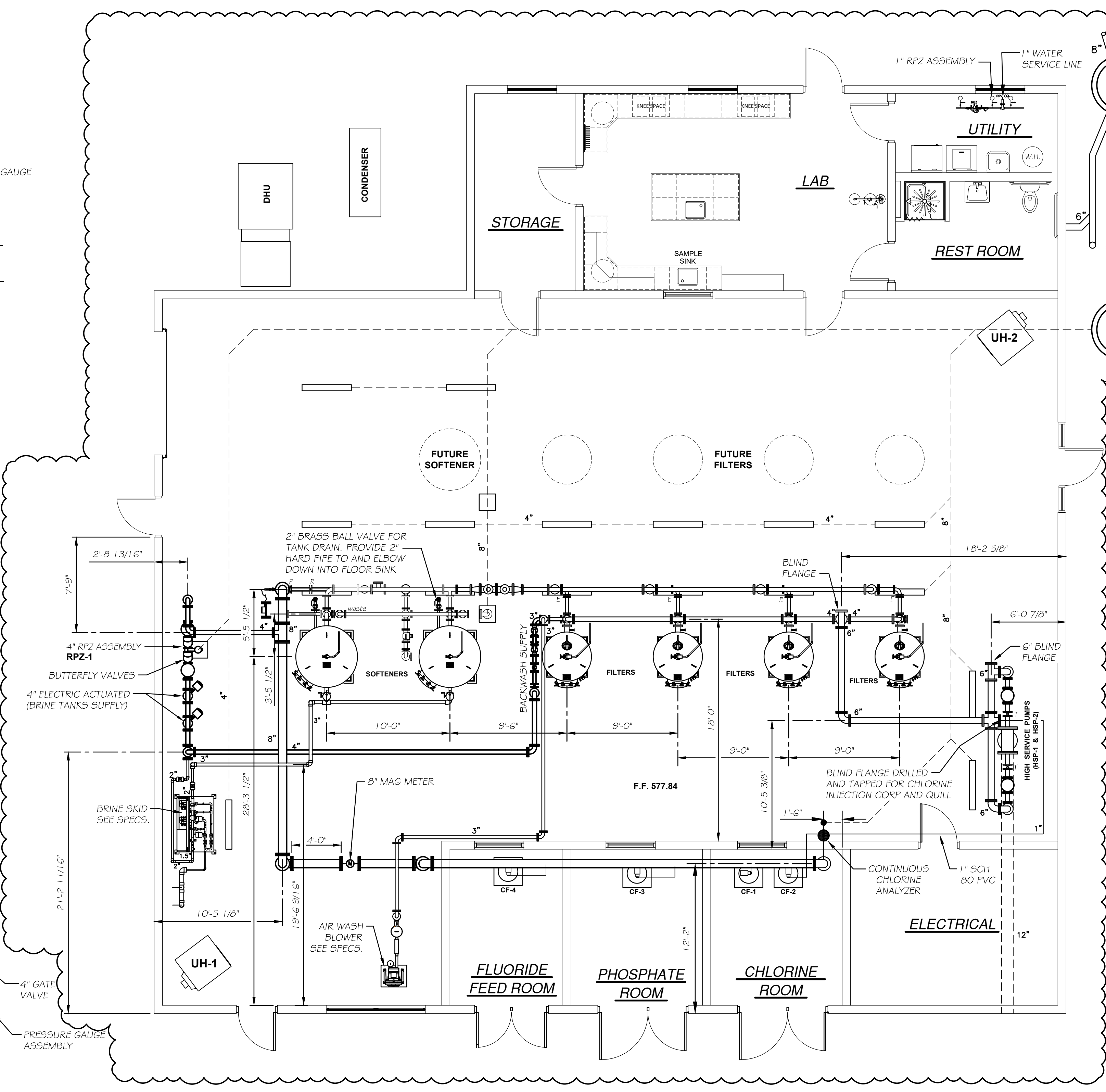


PRESSURE GAUGE ASSEMBLY DETAIL
N.T.S.

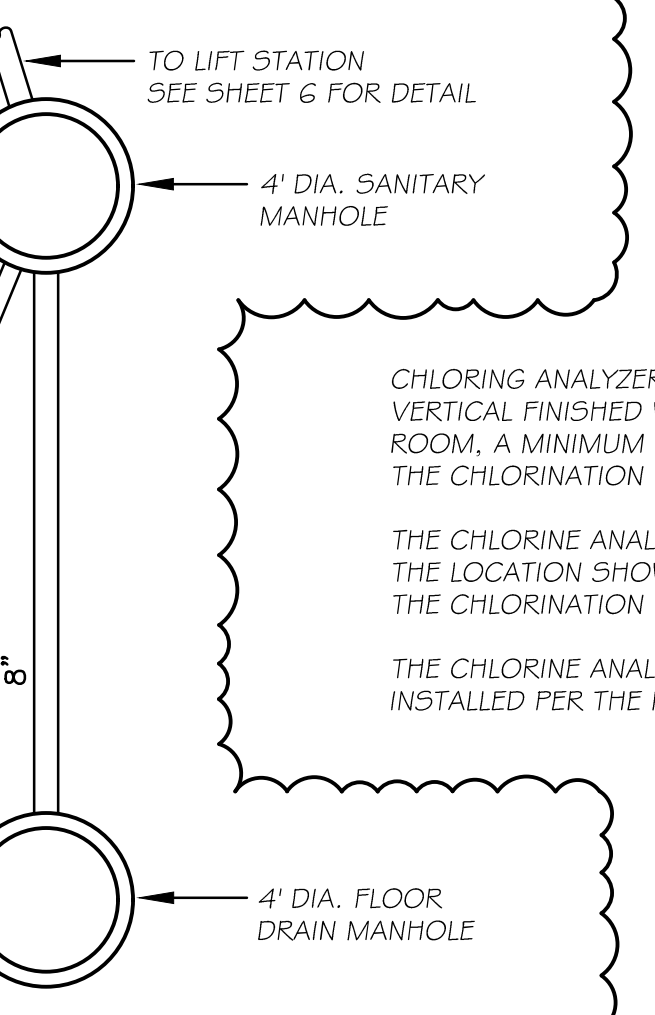
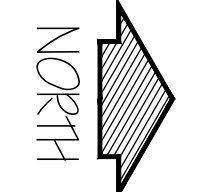
ALL BRASS SHALL BE LOW LEAD
 PROVIDE AN ASSEMBLY ON BOTH SUCTION AND DISCHARGE SIDES OF ALL PUMPS
 PRESSURE GAUGE BE 4.5" GLYCERIN FILLED



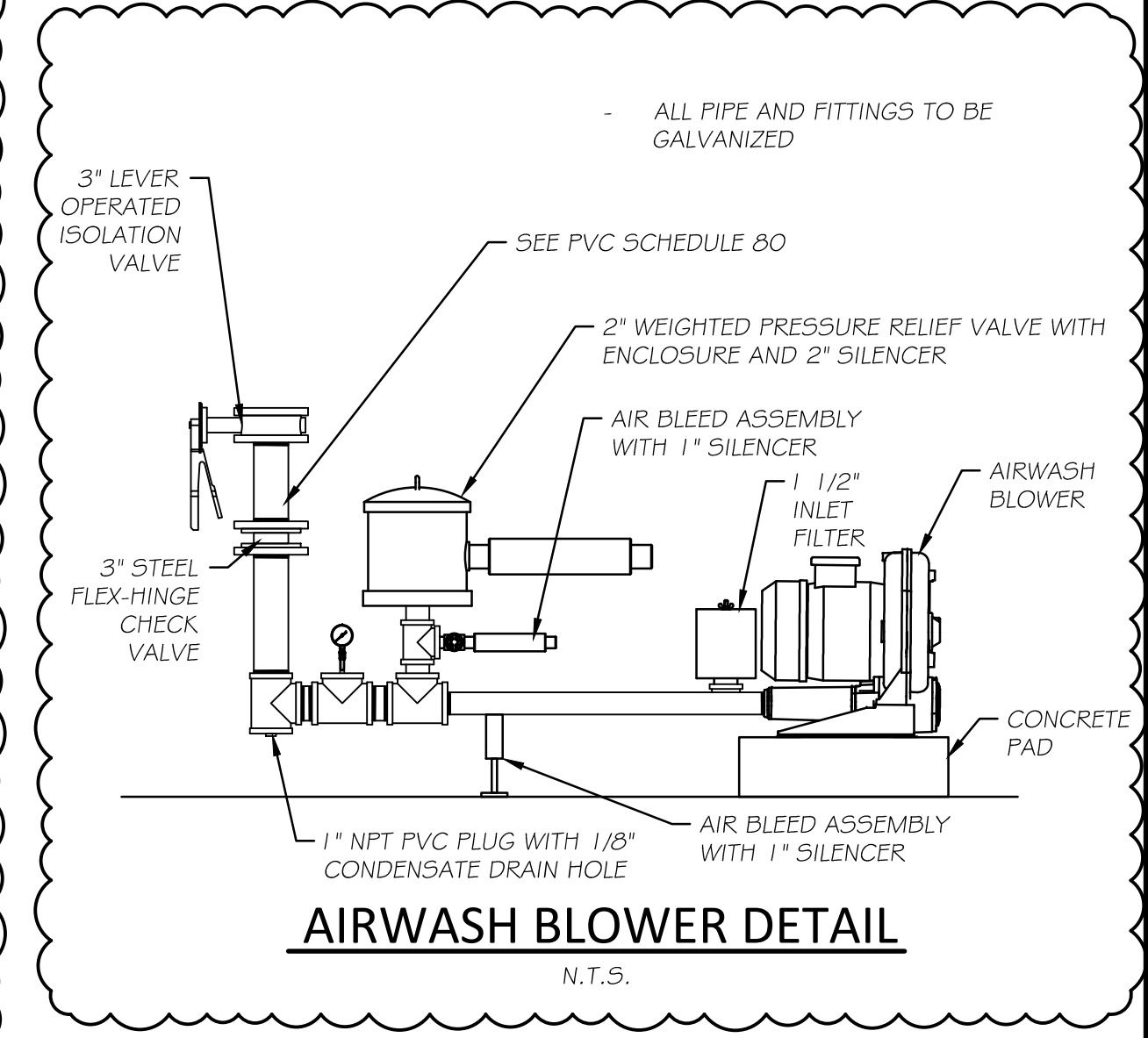
BRINE SKID DETAIL
N.T.S.



MECHANICAL PLAN
SCALE: 3/16" = 1'-0"



FLOOR DRAIN MANHOLE
N.T.S.



AIRWASH BLOWER DETAIL
N.T.S.

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LEVEL	BY	DATE	DESCRIPTION
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2	JJW	03/02/26	ADDENDUM No. 3

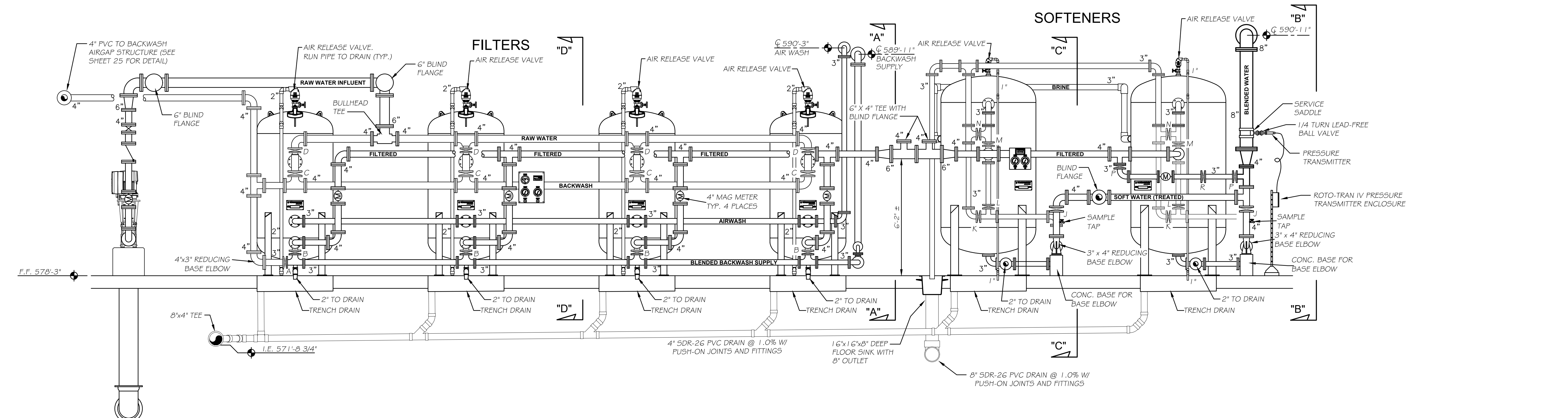
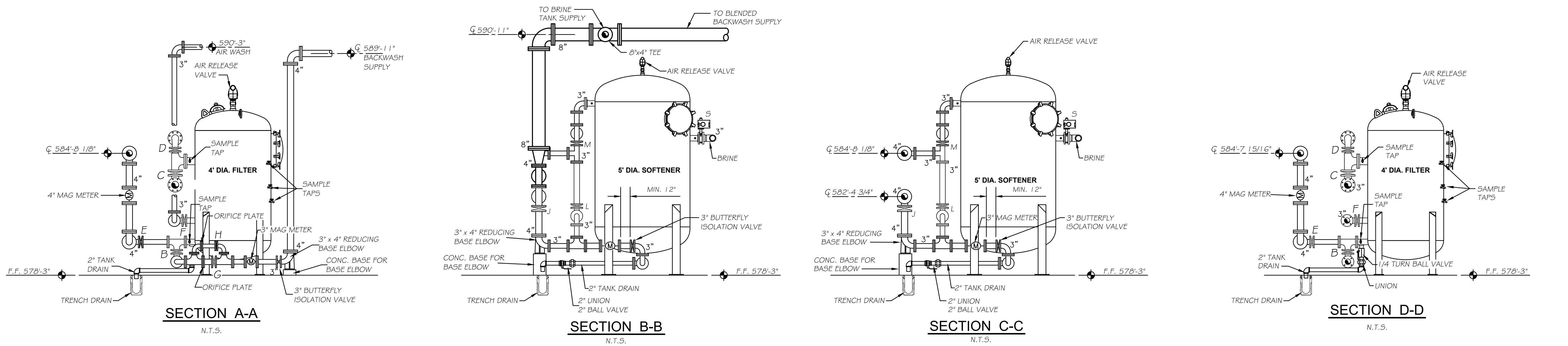

PERU
 OTTAWA MORRIS
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VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

WTP BUILDING
MECHANICAL LAYOUT PLAN

BIDDING PLANS
 CURRENT AS OF: 03/02/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

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 Last Modified: Wednesday, February 25, 2026 3:51:58 PM
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**SOFTENER AND PRESSURE FILTER
 PIPE SECTION VIEW**
 N.T.S.

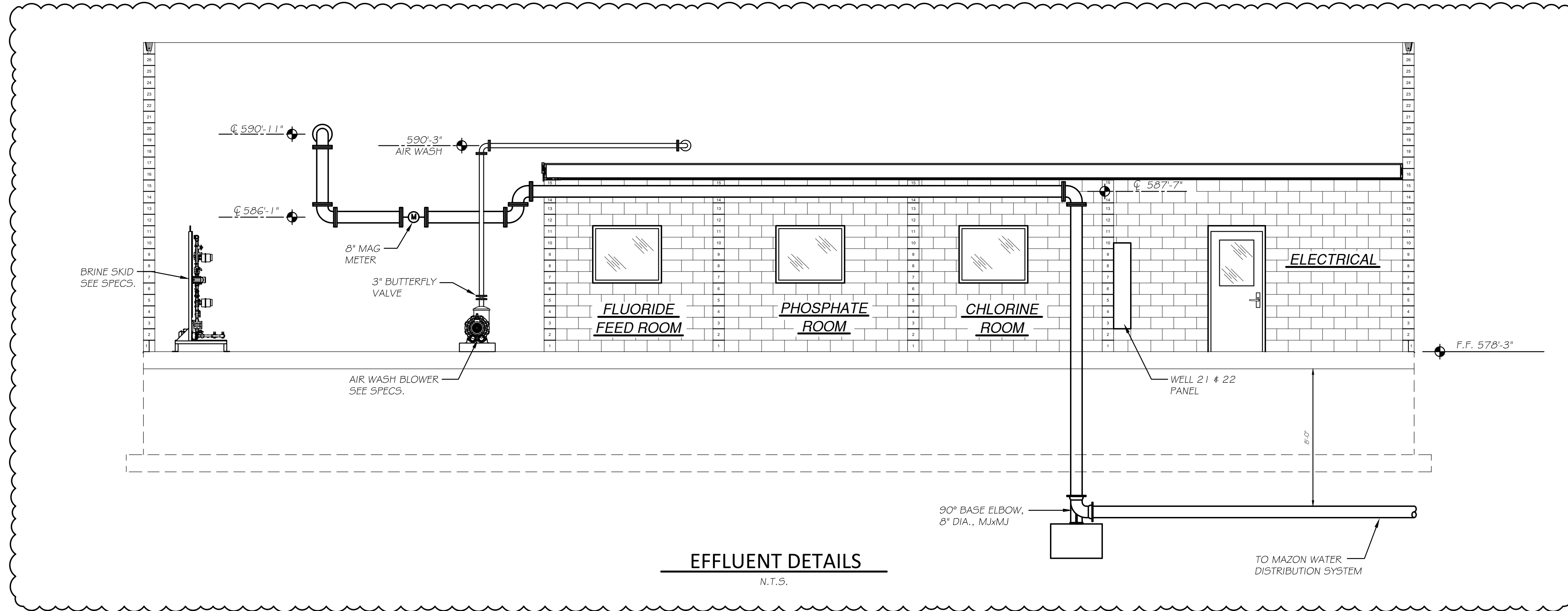
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|--|--|---|
| A 3" ELECTRIC OPERATED BUTTERFLY VALVE FILTER TO WASTE | G 6" ELECTRIC OPERATED BUTTERFLY VALVE BACKWASH RATE SET | N 3" ELECTRIC OPERATED BUTTERFLY VALVE BACKWASH EFFLUENT |
| B 3" ELECTRIC OPERATED BUTTERFLY VALVE BACK WASH INFLUENT | H 3" ELECTRIC OPERATED BUTTERFLY VALVE "SIMUL-WASH" RATE SET | P 3" MANUALLY OPERATED BUTTERFLY VALVE FILTERED BLEND WATER ISOLATION VALVE WITH HANDWHEEL OPERATOR |
| C 4" ELECTRIC OPERATED BUTTERFLY VALVE BACKWASH EFFLUENT | J 4" ELECTRIC OPERATED BUTTERFLY VALVE FINISHED WATER EFFLUENT | R 3" ELECTRIC MODULATING BUTTERFLY VALVE FILTERED BLEND WATER |
| D 3" ELECTRIC OPERATED BUTTERFLY VALVE RAW WATER INFLUENT | K 3" ELECTRIC OPERATED BUTTERFLY VALVE FAST RINSE EFFLUENT | S 3" ELECTRIC OPERATED BUTTERFLY VALVE BRINE INFLUENT |
| E 4" ELECTRIC OPERATED BUTTERFLY VALVE FILTERED WATER EFFLUENT | L 3" ELECTRIC OPERATED BUTTERFLY VALVE BACKWASH INFLUENT | |
| F 3" ELECTRIC OPERATED BUTTERFLY VALVE AIRWASH INFLUENT | M 3" ELECTRIC OPERATED BUTTERFLY VALVE FILTERED WATER INFLUENT | |

ENTIRE SHEET

- NOTES:**
- UNLESS NOTED OTHERWISE, ALL FACE PIPING FOR BOTH FILTERS AND SOFTENERS 4" AND SMALLER SHALL BE SCH80 PVC
 - ALL PIPING 6" AND LARGER SHALL BE DUCTILE IRON WITH FLANGE JOINTS
 - ALL HORIZONTAL REDUCERS SHALL BE ECCENTRIC STYLE FLANGED JOINT UNLESS OTHERWISE NOTED.
 - GAPS BETWEEN FLANGES AND ALL LOCATIONS WHERE A GAP EXISTS AT FLANGE HUB/PIPE INTERSECTION SHALL BE CAULKED PRIOR TO PAINTING WITH SONNEBORN NP-1 BY SONNEBORN-CHEMREX, INC., SIKAFLEX-1A OR APPROVED EQUAL
 - CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED FOR COMPLETE PRESSURE TRANSMITTER INSTALLATION
 - MOUNT PRESSURE TRANSMITTER ENCLOSURE ON UNISTRUT SUPPORT 5 FEET ABOVE FINISHED FLOOR. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND SUPPORTS.

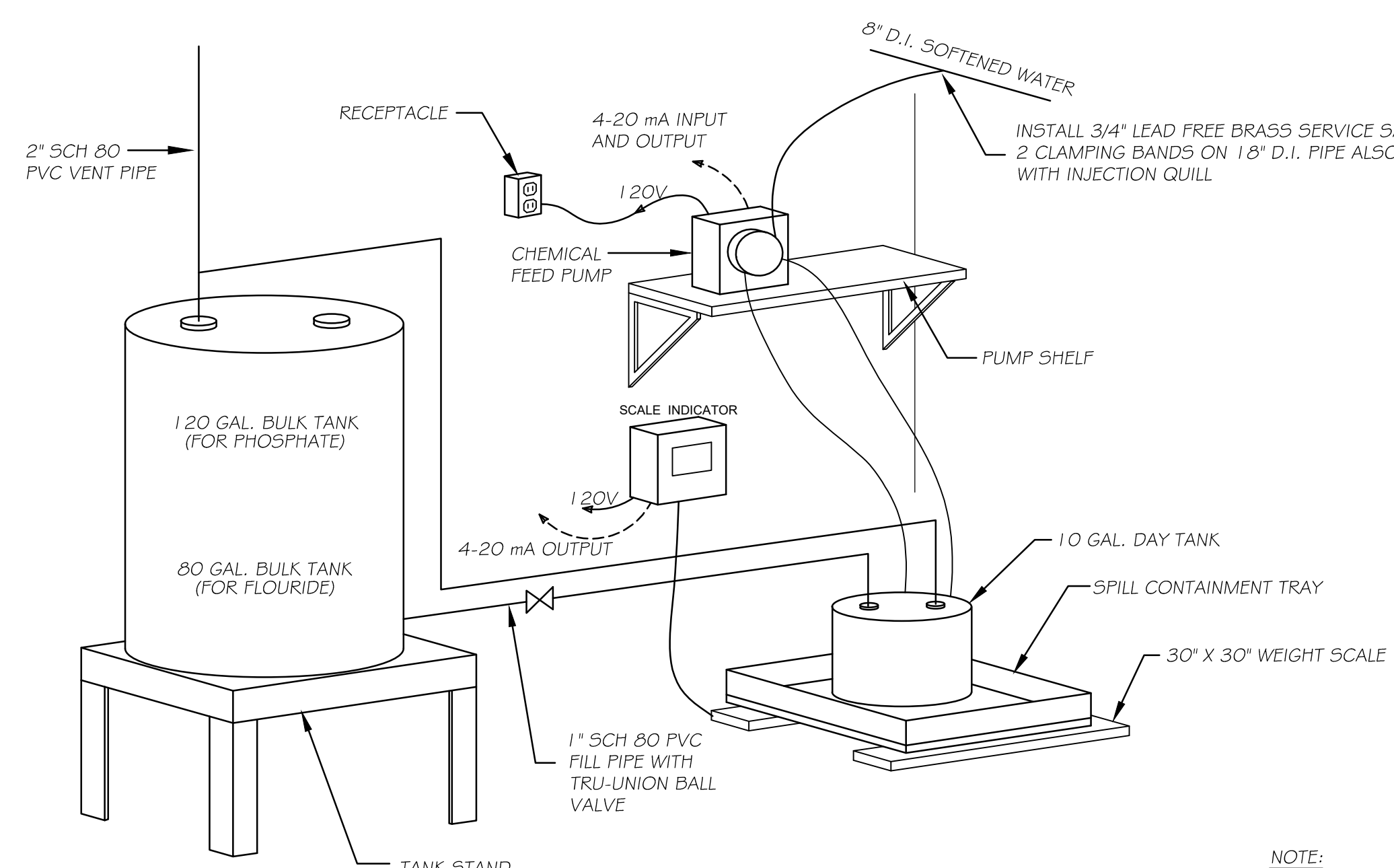
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1	ADDENDUM No. 2												

2



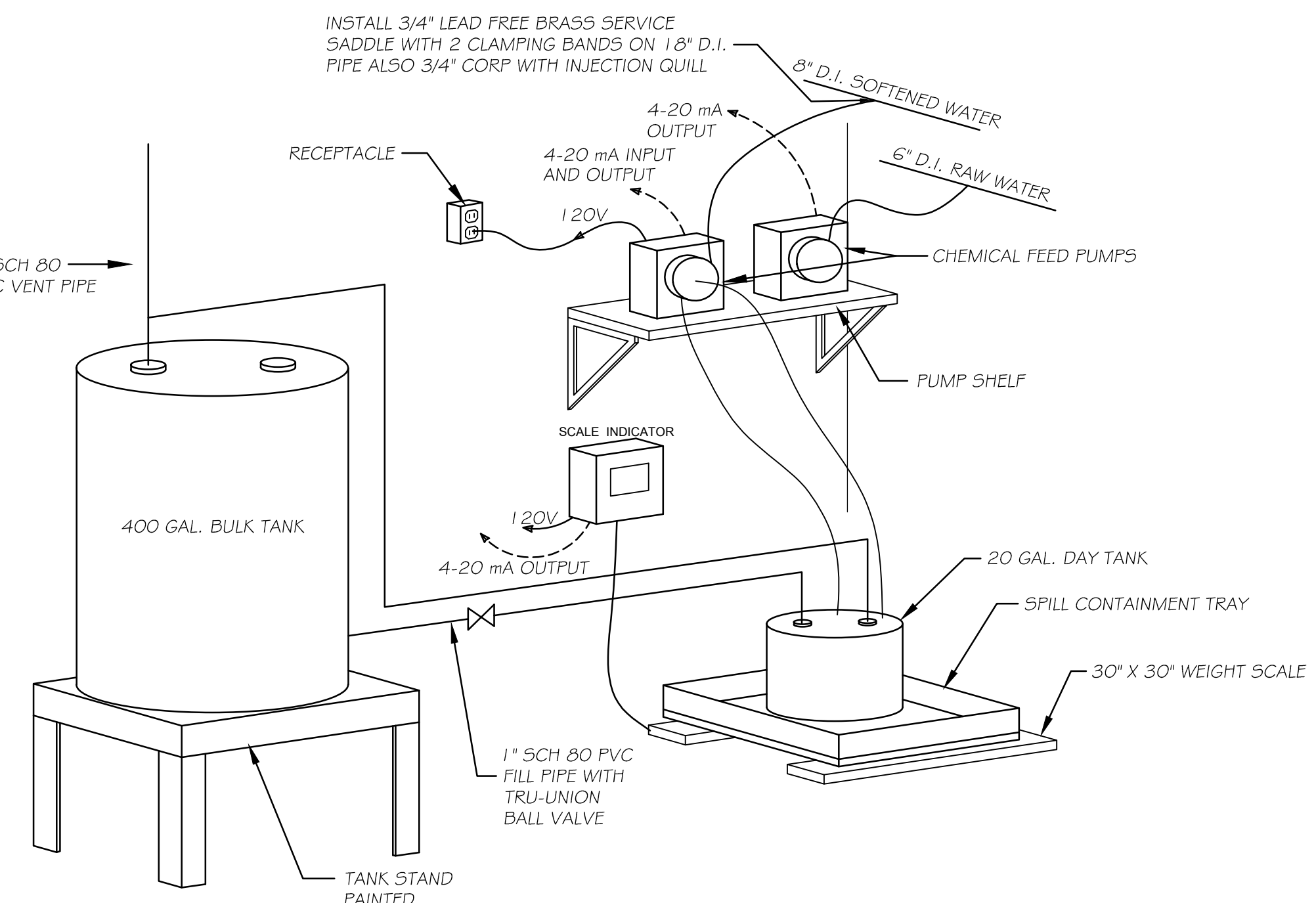
EFFLUENT DETAILS

N.T.S.



FLUORIDATION & PHOSPHATE CHEMICAL FEED SYSTEM

N.T.S.



SODIUM HYPOCHLORITE (12.5%) CHEMICAL FEED SYSTEM

N.T.S.

- NOTE:**
- PVC VENT PIPE SHALL EXTEND THROUGH ROOF AND TERMINATE A MINIMUM OF 18 INCHES ABOVE FINISHED ROOF WITH DOWNWARD FACING GOOSE NECK. PROVIDE PIPE FLASHING, INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR A WATERTIGHT SEAL.
 - CONTRACTOR SHALL PROVIDE 2 SPARE CHEMICAL FEED PUMPS.
 - VENT PIPE LOCATION AND EQUIPMENT LAYOUT TO BE DETERMINED IN FIELD WITH ENGINEER APPROVAL.

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Drawing Name: G:\Users\jg\9316-02-Mazon-New Water Treatment Plant\CAD\030-EFFLUENT AND CHEMICAL DETAILS.dwg
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Plotted On: Tuesday, March 10, 2026 9:49:24 AM
by: Josh Wankowicz

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CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 06/2024	1	JJC	02/25/26	ADDENDUM No. 2
	2	JJW	03/02/26	ADDENDUM No. 3

CA
Chamlin & Associates

PERU
OTTAWA MORRIS
ILLINOIS

**VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026**

EFFLUENT AND CHEMICAL DETAILS

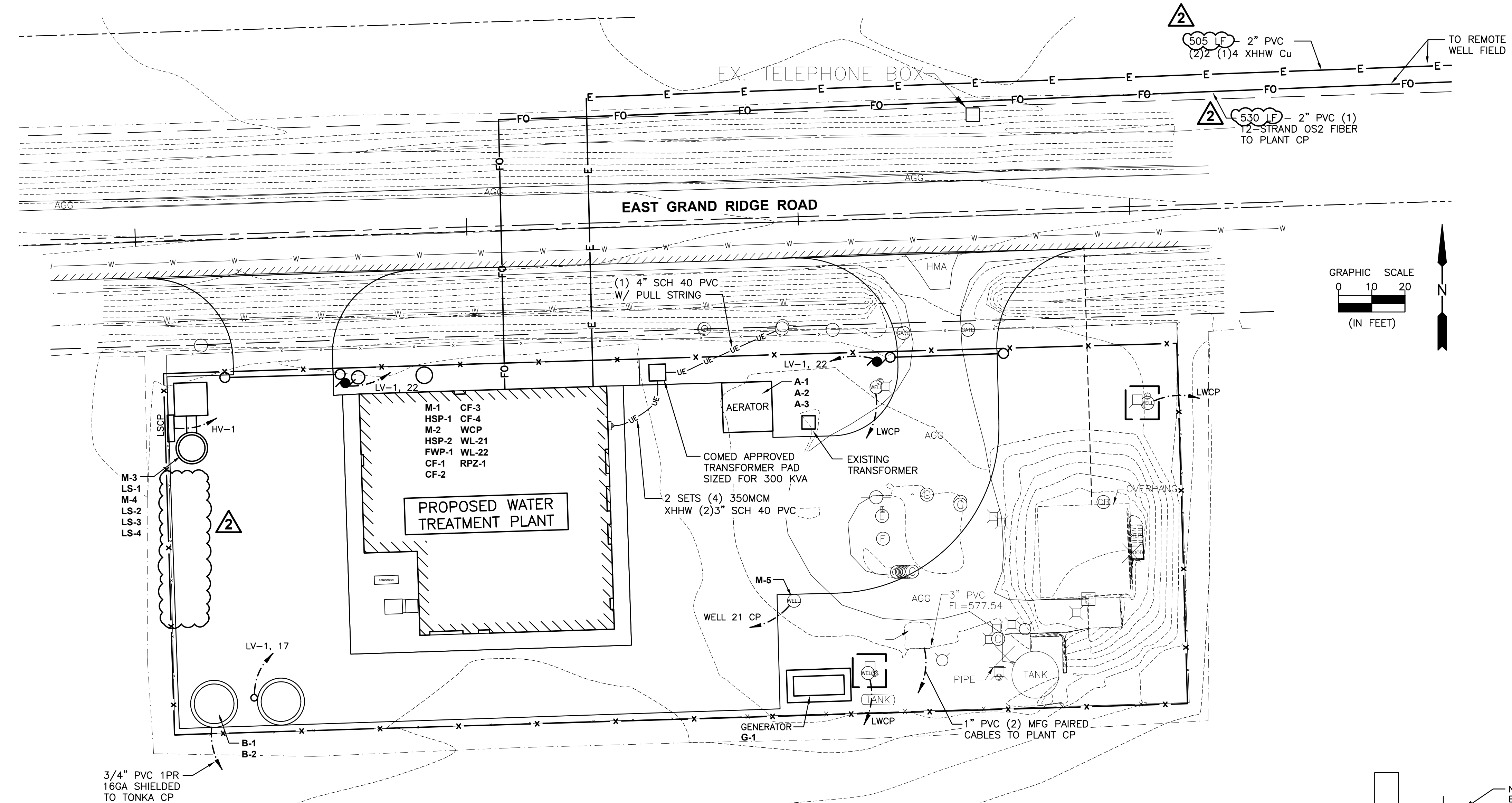
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CURRENT AS OF: 03/02/2026

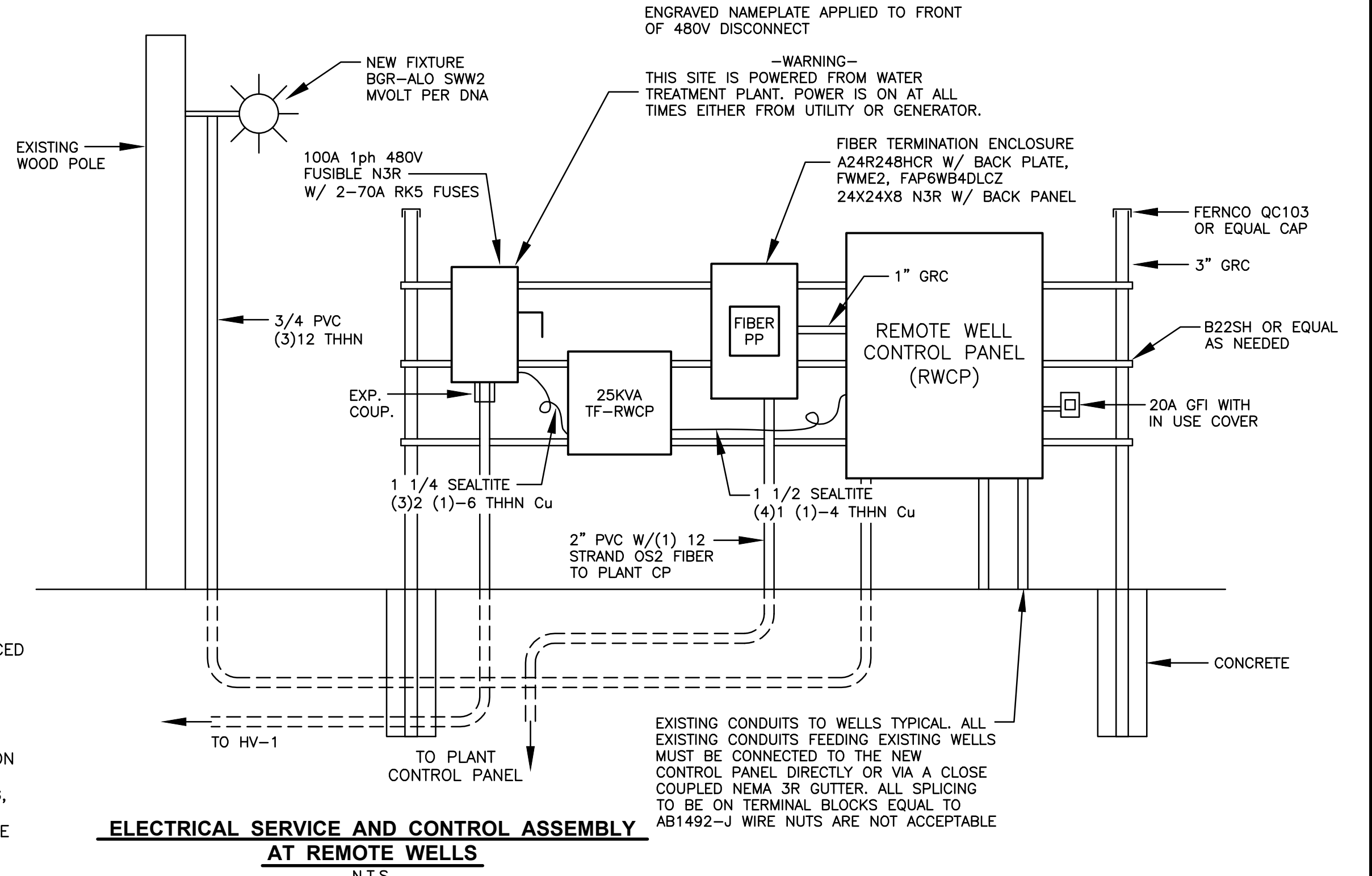
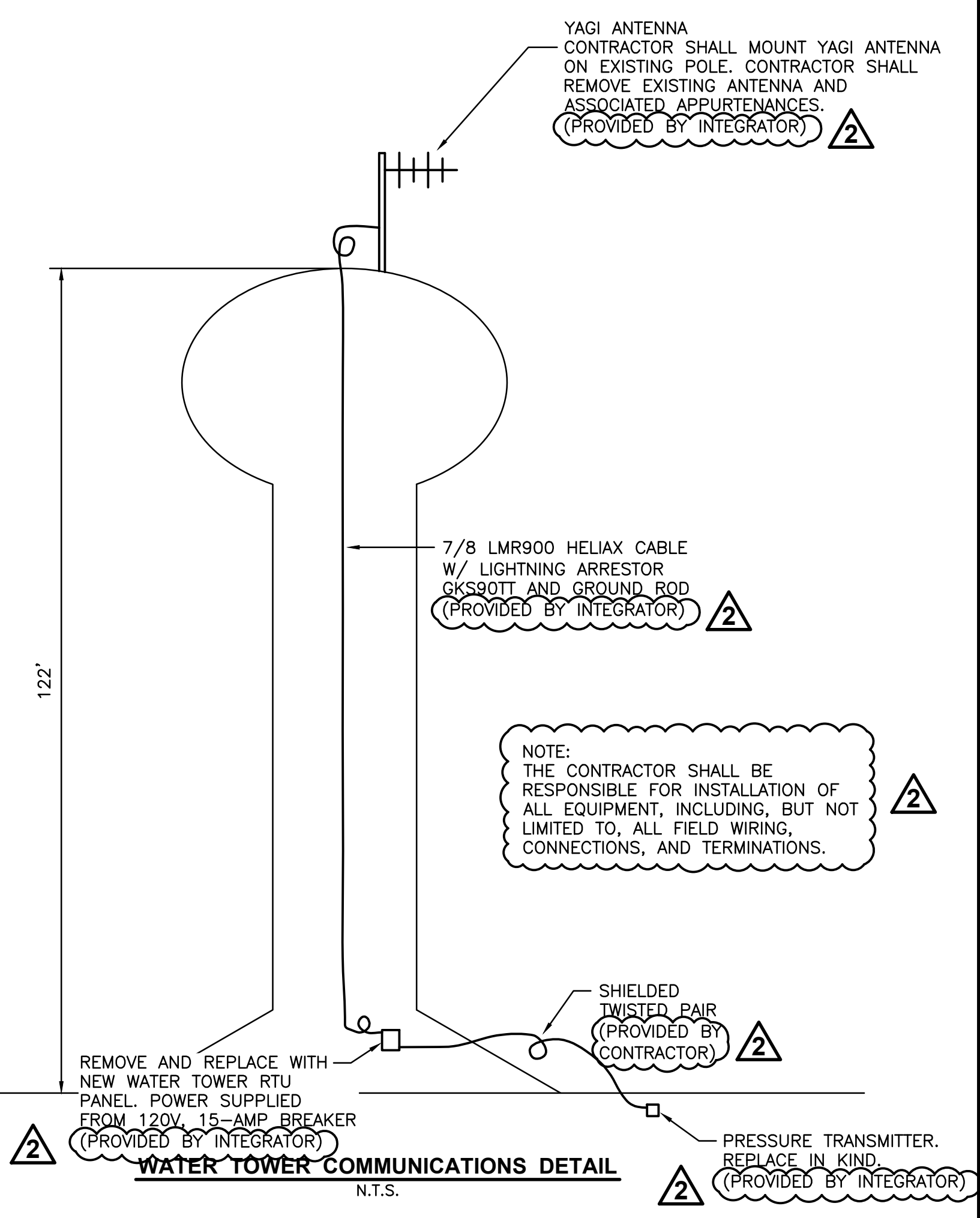
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FOR CONDUIT RUNS TO REMOTE WELL SITE, UTILIZE RIGID STEEL LONG RADIUS ELBOWS. AT CONTRACTORS DISCRETION INSTALL AN IN GROUND PULL BOX EQUAL TO QUAZITE PG2436BA24 W/ PG2436HH W/ ELECTRIC LOGO.



NOTE:
TEMPORARY POWER CAN BE SOURCED FROM SQD 200A LOAD CENTER IN EXISTING TREATMENT BUILDING

FIBER NOTE:
CONTRACTOR SHALL PROVIDE COMPLETE FIBER OPTIC INSTALLATION INCLUDING TERMINATION AT THE TERMINATION ENCLOSURE, LABELING, AND TESTING. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED HARDWARE AND ACCESSORIES.

DRAWN BY: CLD		REVISIONS	
LEVEL	BY	DATE	DESCRIPTION
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2	JJC	02/26/26	ADDENDUM No. 2

PERU
 OTTAWA MORRIS
 ILLINOIS

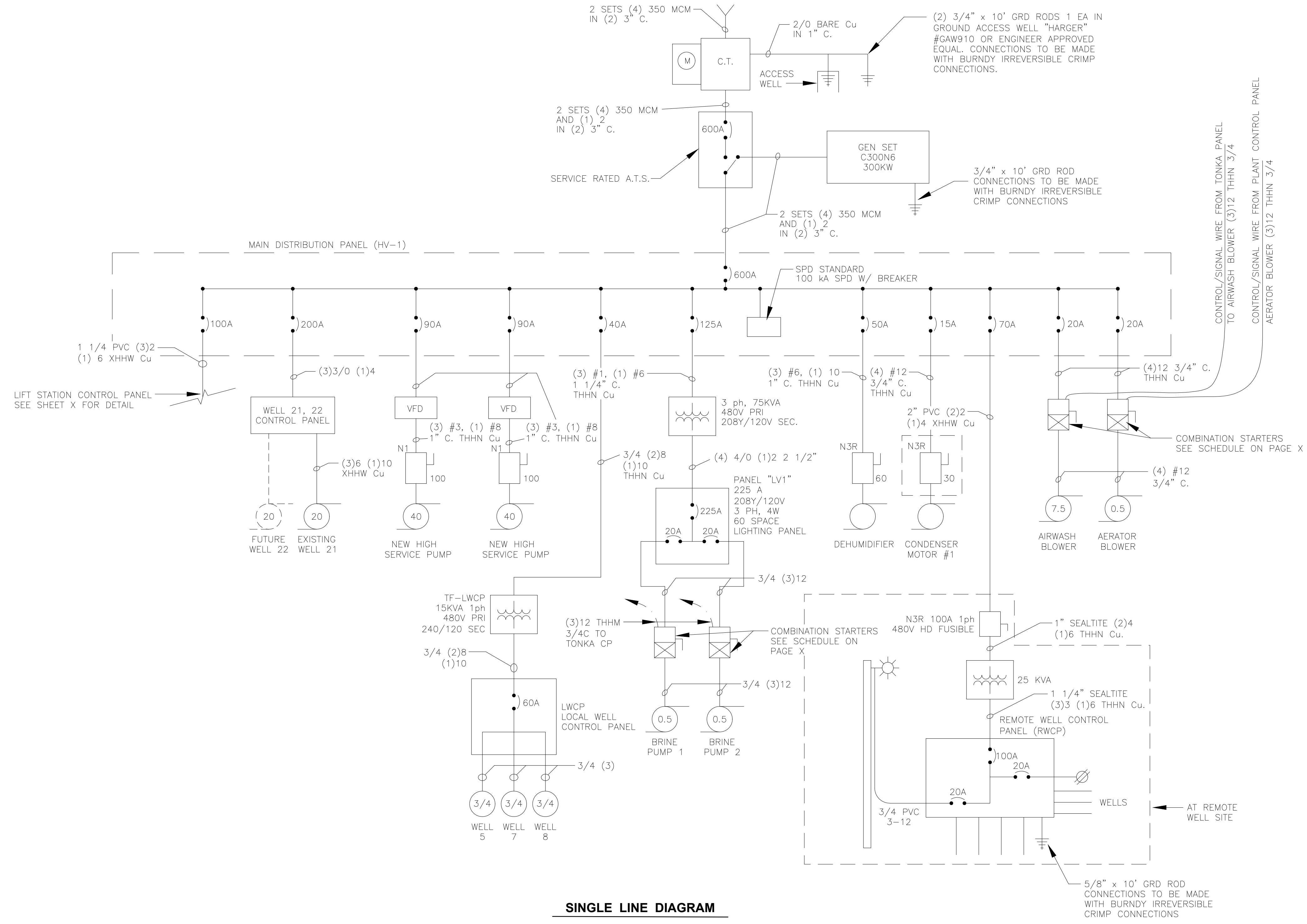
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

SITE ELECTRICAL
AND CONTROLS PLAN

BIDDING PLANS

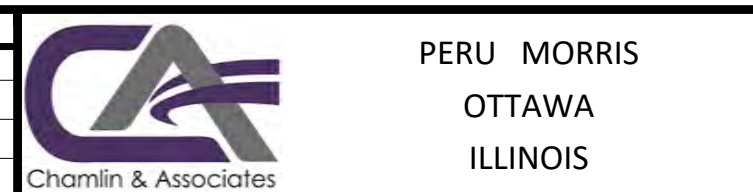
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 Plotted On: Friday, February 6, 2026 3:26:45 PM
 by: Josh Washkewich



SINGLE LINE DIAGRAM

DRAWN BY: JJW	REVISIONS			
CHECKED BY: RTB	LEVEL	BY	DATE	DESCRIPTION
DATE: 11/25				



PERU MORRIS
 OTTAWA
 ILLINOIS

**VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026**

SINGLE LINE DIAGRAM

BIDDING PLANS	CURRENT AS OF: 02/06/2026	
	SCALE: AS NOTED	SHEET 32
	FILE NO.: 9936.02 Y-	OF 55

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Detail Bill of Material

Page 1 of 4

Project Name: Mazon WTP
 General Order No: 2/4/2026
 Bid Date: 2/4/2026
 Negotiation No: D25P0119X8K1
 Alternate No: 0000
 Est. Purchase Date: 2/4/2026

Item No.	Qty	Product	Description
1		Panelboards	PRL4X, 49 Circuits, 600A, Fully Rated, 480Y/277V 3PH 4W, Copper Bus, 14KAIC, 600A, 3P PDG33G0600 Main Breaker(Bottom Fed), Surface Mounted

Catalog No
 Designation MIA-PDNFNGBB54A
 HV-1

Qty List of Materials

- 1 600A, 3P PDG33G0600 Main Breaker
- 1 15A, 3P GHB Branch Breaker
- 1 70A, 2P GHB Branch Breaker
- 1 40A, 2P GHB Branch Breaker
- 1 125A, 3P PDG23G0125 Branch Breaker
- 1 100A, 3P GHB Branch Breaker
- 5 3P GHB Branch Space Only
- 1 50A, 3P GHB Branch Breaker
- 1 60A, 3P GHB Branch Breaker
- 2 90A, 3P GHB Branch Breaker
- 2 3P Frame 2 Branch Provision Only
- 1 200A, 3P PDG23G0200 Branch Breaker
- 1 Surge Protective Device, 100 kA SPD Series - Standard, with Fusible Disconnect
- 1 Copper Main Bus, 600 Amps
- 1 Std. Bolted Al Ground Bar (Al/Cu Cable)
- 1 Painted Box - ANS161
- 1 Panel Nameplate - White with Black Letters
- 1 BX369P Box, Made in America
- 1 Type 1 Enclosure: BX369P
- 1 Standard Covers: Standard Covers

Item No.	Qty	Product	Description
1		Panelboards	PRL1X, 60 Circuits, 225A, Fully Rated, 208Y/120V 3PH 4W, Copper Bus, 10KAIC, 225A, 3P PDD23F0225 Main Breaker(Top Fed), Surface Mounted

Catalog No
 Designation MIA-PCNAEDBT60A
 LV-1

Qty List of Materials

- 1 225A, 3P PDD23F0225 Main Breaker
- 1 3P BAB-H Branch Provision Only
- 2 1P Branch Provision Only
- 5 30A, 2P BAB Branch Breaker
- 20A, 1P BAB Branch Breaker
- 1 20A, 2P BAB Branch Breaker
- 1 60A, 2P BAB Branch Breaker
- 1 Surge Protective Device, 100 kA SPD Series - Standard
- 1 Copper Main Bus, 225 Amps
- 1 Std. Bolted Al Ground Bar (Al/Cu Cable)
- 1 Panel Nameplate - White with Black Letters
- 1 EZB2072RMIA Box, Made in America
- 1 Type 1 Enclosure: EZB2072RMIA
- 1 EZTrim, Door in Door, Concealed Hardware: EZT2072SMIA



Detail Bill of Material

Page 2 of 4

Project Name: Mazon WTP
 General Order No: 2/4/2026
 Bid Date: 2/4/2026
 Negotiation No: D25P0119X8K1
 Alternate No: 0000
 Est. Purchase Date: 2/4/2026

Item No.	Qty	Product	Description
1		Dry Type Transformers	Transformer Type: General Purpose Ventd 3 Phase, 75 KVA, 1 K-Factor 480 Primary Volts 208Y/120 Secondary Volts Temperature Rise 150C with 220C Insulation System Aluminum Winding Material Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 50 Efficiency - DOE 10 CFR Part 431 (2016) UL Listed - Y Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab) Operating Frequency: 60 HZ

Catalog No
 Designation V48M28T7516
 TF-LV1

Qty List of Materials

- 1 3 Phase, 75 KVA, 480 Primary Volts, 208Y/120 Secondary Volts, 150C with 220C Insulation System Temperature Rise, Aluminum Winding Material, 60 HZ
- 1 TX Lug Kit1PH 15-37.5KVA / 3PH 75-112.5KVA.

Item No.	Qty	Product	Description
1		Dry Type Transformers	Transformer Type: General Purpose Ventd 1 Phase, 15 KVA, 1 K-Factor 240 X 480 Primary Volts 120/240 Secondary Volts Temperature Rise 150C with 220C Insulation System Aluminum Winding Material Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 45 Efficiency - DOE 10 CFR Part 431 (2016) UL Listed - Y Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab) Operating Frequency: 60 HZ

Catalog No
 Designation T22P11S1516
 TF-LWCP

Qty List of Materials

- 1 1 Phase, 15 KVA, 240 X 480 Primary Volts, 120/240 Secondary Volts, 150C with 220C Insulation System Temperature Rise, Aluminum Winding Material, 60 HZ
- 1 TX Lug Kit1PH 15-37.5KVA / 3PH 15-45KVA.



Detail Bill of Material

Page 3 of 4

Project Name: Mazon WTP
 General Order No: 2/4/2026
 Bid Date: 2/4/2026
 Negotiation No: D25P0119X8K1
 Alternate No: 0000
 Est. Purchase Date: 2/4/2026

Item No.	Qty	Product	Description
1		Dry Type Transformers	Transformer Type: General Purpose Ventd 1 Phase, 25 KVA, 1 K-Factor 240 X 480 Primary Volts 120/240 Secondary Volts Temperature Rise 150C with 220C Insulation System Aluminum Winding Material Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 45 Efficiency - DOE 10 CFR Part 431 (2016) UL Listed - Y Enclosure Type: NEMA 2 (for N3R, select Weather Shield in Mods tab) Operating Frequency: 60 HZ

Catalog No
 Designation T22P11S2516
 TF-RWCP

Qty List of Materials

- 1 1 Phase, 25 KVA, 240 X 480 Primary Volts, 120/240 Secondary Volts, 150C with 220C Insulation System Temperature Rise, Aluminum Winding Material, 60 HZ
- 1 TX Lug Kit1PH 15-37.5KVA / 3PH 15-45KVA.

Item No.	Qty	Product	Description
1		Enclosed Controls	ECN2404C0B-R63/BA2P1S3, NEMA - Freedom, NEMA 4X - Stainless Steel (304 Grade), 5 HP, 460V, Size 0, 120V/60 110V/50 Col. Circuit Breaker - 3 amp, Drawing Number: 50-4360A, LIST OF MATERIAL: ECN2404C0B - FVNR Combo Starter, HMCPE or Mag. Trip, STD-SSOL OLR, w/CPT

Catalog No
 Designation ECN2404C0B-R63/BA2P1S3
 Asstar Blower

Catalog No

- R63B 1 R63B-Solid State Overload, FLA 1-5
- C1 1 C1 - Standard Size CPT, 120V/60HZ/110V 50HZ secondary w/2 primary & 1 secondary fuse
- A29 1 A29-INO/INC extra AUXCONT (Unwired without diagram)
- P1 1 P1-Push-to-Test pilot Light(red RUN) Wired to Coil
- S3 1 S3-HAND-OFF-AUTO Selector Switch

Item No.	Qty	Product	Description
1		Enclosed Controls	ECN2414C0D-R63/CA2P1S3, NEMA - Freedom, NEMA 4X - Stainless Steel (304 Grade), 7.5 HP, 460V, Size 1, 120V/60 110V/50 Col. Circuit Breaker - 15 amp, Drawing Number: 50-4360A, LIST OF MATERIAL: ECN2414C0D - FVNR Combo Starter, HMCPE or Mag. Trip, STD-SSOL OLR, w/CPT

Catalog No
 Designation ECN2414C0D-R63/CA2P1S3
 Airwash Blower



Detail Bill of Material

Page 4 of 4

Project Name: Mazon WTP
 General Order No: 2/4/2026
 Bid Date: 2/4/2026
 Negotiation No: D25P0119X8K1
 Alternate No: 0000
 Est. Purchase Date: 2/4/2026

Item No.	Qty	Product	Description
1		Enclosed Controls	ECN2214A0D-R63/CA2P1S3S2, NEMA - Freedom, NEMA 4X - Stainless Steel (304 Grade), 5 HP, 115V, Size 1, 120V/60 110V/50 Col. Circuit Breaker - 15 amp, Drawing Number: 50-4360A, LIST OF MATERIAL: ECN2214A0D - FVNR Combo Starter, HMCP or Mag. Trip, STD-SSOL OLR

Catalog No
 Designation ECN2214A0D-R63/CA2P1S3S2
 Brine Pump 1 and 2

Item No.	Qty	Product	Description
1		Enclosed Controls	ECN2214A0D-R63/CA2P1S3S2, NEMA - Freedom, NEMA 4X - Stainless Steel (304 Grade), 5 HP, 115V, Size 1, 120V/60 110V/50 Col. Circuit Breaker - 15 amp, Drawing Number: 50-4360A, LIST OF MATERIAL: ECN2214A0D - FVNR Combo Starter, HMCP or Mag. Trip, STD-SSOL OLR

Catalog No
 Designation ECN2214A0D-R63/CA2P1S3S2
 Brine Pump 1 and 2

Item No.	Qty	Product	Description
1		Enclosed Controls	ECN2214A0D-R63/CA2P1S3S2, NEMA - Freedom, NEMA 4X - Stainless Steel (304 Grade), 5 HP, 115V, Size 1, 120V/60 110V/50 Col. Circuit Breaker - 15 amp, Drawing Number: 50-4360A, LIST OF MATERIAL: ECN2214A0D - FVNR Combo Starter, HMCP or Mag. Trip, STD-SSOL OLR

Catalog No
 Designation ECN2214A0D-R63/CA2P1S3S2
 Brine Pump 1 and 2

Item No.	Qty	Product	Description
1		NEMA Contactor & Starter	FRNMST - Freedom

Catalog No
 Designation BN16BN0AC

Item No.	Qty	Product	Description
1		NEMA OPEN STR 1 PHASE	SIZE 0 120V COIL

Eaton Selling Policy 25-000 applies.
 If Eaton and the buyer entity listed on this purchase order have a separate executed written agreement for the products/services herein, then that agreement applies. Otherwise, Eaton's Selling Policy 25000 (<https://www.eaton.com/cal-en-gb/support/terms-conditions.html>) controls and supersedes all prior correspondence or communications between Eaton and the buyer, and any additional or different terms proposed by the buyer are rejected.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting therefrom.

DRAWN BY: TRH	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: CLD					
DATE: 06/2025					

CA
 Chamlin & Associates

PERU
 OTTAWA MORRIS
 ILLINOIS

VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026

BILL OF MATERIALS

BIDDING PLANS

CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 35

FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\JAWB36-02-Mazon-New Water Treatment-Plant\CAD\036 - EATON DETAILS (1 OF 3).dwg
 Last Modified: Friday, February 6, 2026 10:56:32 AM
 Plotted On: Friday, February 6, 2026 3:23:49 PM
 by: Josh Washkowiak

General Information (Section 1 of 1)

Service Voltage: 480Y/277V 3Ph 4W **Enclosure:** Type 1
Bus Rating & Type: 600A Copper **Neutral Rating:** 600A
Ground Bar: Std. Bolted Aluminum, Al or Cu cable
S.C. Rating: 14k A.I.C. Fully Rated

Main Device Type: Main Breaker - Bottom Cable Entry
Main Terminals: Mechanical - (2) #2-500 kcmil (Cu/Al)
Neutral Terminals: Mechanical - (2) #4-500 kcmil (Cu/Al)
Box Catalog No.: BX3690P
Trim: Standard Covers
 Surface Mounted

Box Dimensions: 90.00" [2286.0mm]H x 36.00" [914.4mm]W x 10.41" [264.2mm]D
Min. Gutter Size: Top = 10.625" [269.9mm] Bottom = 10.625" [269.9mm]
 Left = 6" [152.4mm] Right = 8" [203.2mm]

Panel ID Nameplate: (1) HV-1
Type: Plastic, adhesive-backed (2) 480Y/277V 3Ph 4W
Color: White with Black Letters (3)

UL:

Circuit Directory: Plastic Sleeve with Card
 Painted Box: ANSI 61
 Box is Made in America.
 Main Circuit Breaker Trip Type: Thermal-Magnetic.
 Seismic Label (IBCC/ICC Seismic Qualified).
 Heat Loss - Watts (Est.) = 272
 Verify neutral terminal provisions and quantity of branch devices.
 Wire shall be based on the ampacity of 75°C rated conductors unless otherwise indicated.

Device Modifications:		Branch Devices					
Ref #	Description	Qty	Poles	Trip	Frame	Amps	kAIC
		2	3	90	GHB	100	14
		1	3	60	GHB	100	14
		1	3	100	GHB	100	14
		1	3	50	GHB	100	14
		5	3		PROVGH3		
		2	3		PROVFrame23		
		1	3	125	Frame 2	225	14
		1	2	70	GHB	100	14
		1	3	15	GHB	100	14
		1	2	40	GHB	100	14
		1	3	200	Frame 2	225	14
Main Devices		Qty	Poles	Trip	Frame	Amps	kAIC
		1	3	600	Frame 3	600	14

Notes:

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PREPARED BY: Ken Capponi	DATE: 2/4/2026	Eaton	
APPROVED BY:	DATE:	JOB NAME: Mazon WTP	DESIGNATION: HV-1
VERSION: 1.0.0.90	TYPE: PRL4X	DRAWING TYPE: Customer Approval	
NEG-ALT Number: 035F0118XK1-0000	REVISION: 0	DWG SIZE: A	SHEET: 1 of 3

Pow-R-Line4X Device Specifications					
Ckt #s	Nameplate	Device	Trip	Terminal	Modifications
Main		PDG33G0600	600	(2) #2-500 kcmil (Cu/Al)	
1,3,5	WELL 21 & 22 CONTROL PANEL	PDG23G0200	200	(1) #4-4/0 (Cu/Al)	
2,4,6	TF-LV1	PDG23G0125	125	(1) #4-4/0 (Cu/Al)	
7,9,11		PROVFrame23	225	None Available	
8,10,12		PROVFrame23	225	None Available	
13,15,17	LIFT STATION CONTROL PANEL	GHB3100	100	(1) #10-1/0 (Cu/Al)	
14,16	TF-LWCP	GHB2040	40	(1) #10-1/0 (Cu/Al)	
18,20,22		PROVGH3	20	None Available	
19,21,23	HS1 PUMP	GHB3090	90	(1) #10-1/0 (Cu/Al)	
24,26,28	DEHUMIDIFIER	GHB3050	50	(1) #10-1/0 (Cu/Al)	
25,27,29	HS2 PUMP	GHB3090	90	(1) #10-1/0 (Cu/Al)	
30,32,34		PROVGH3	20	None Available	
31,33	REMOTE WELLS TRANSFORMER	GHB2070	70	(1) #10-1/0 (Cu/Al)	
35,37,39	WELL 21	GHB3060	60	(1) #10-1/0 (Cu/Al)	

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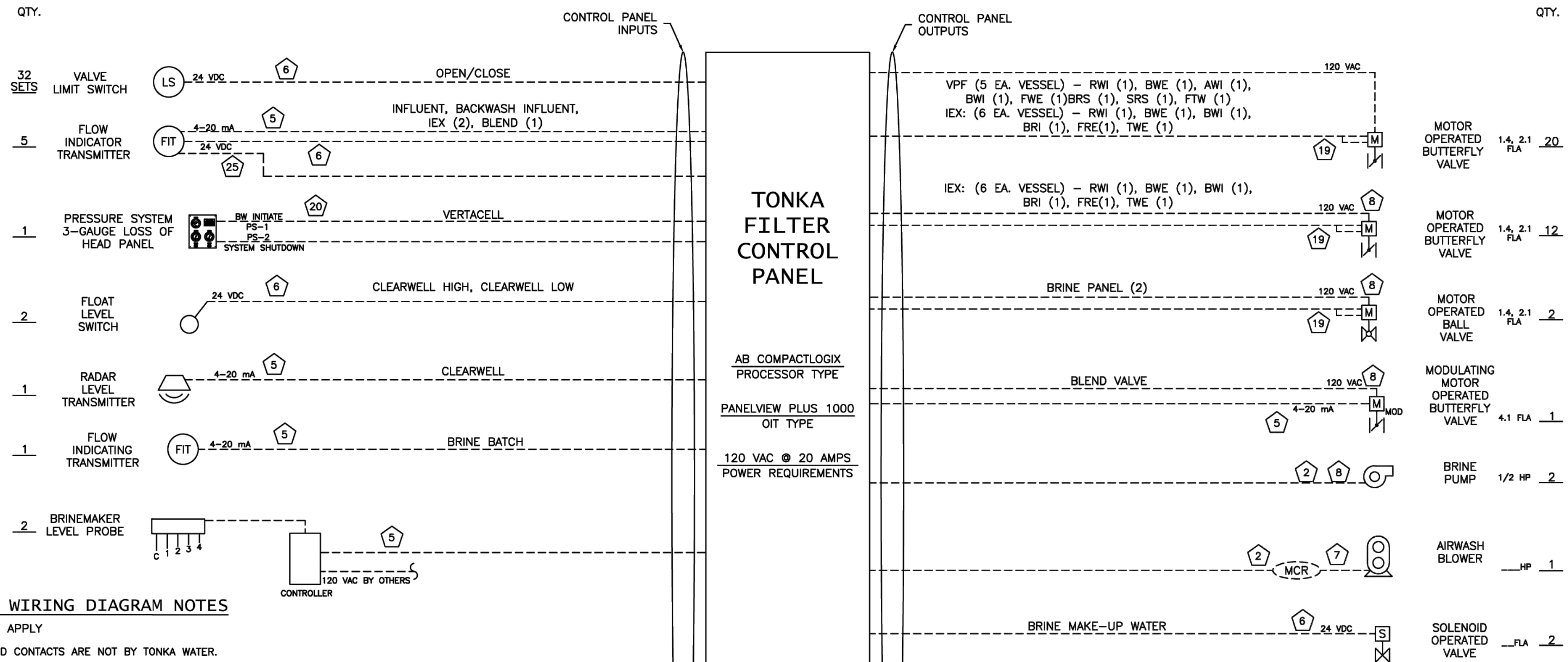
PREPARED BY: Ken Capponi	DATE: 2/4/2026	Eaton	
APPROVED BY:	DATE:	JOB NAME: Mazon WTP	DESIGNATION: HV-1
VERSION: 1.0.0.90	TYPE: PRL4X	DRAWING TYPE: Customer Approval	
NEG-ALT Number: 035F0118XK1-0000	REVISION: 0	DWG SIZE: A	SHEET: 2 of 3

Pow-R-Line4X Device Specifications					
Ckt #s	Nameplate	Device	Trip	Terminal	Modifications
36,38,40		PROVGH3	20	None Available	
41,43,45		PROVGH3	20	None Available	
42,44,46		PROVGH3	20	None Available	
47,49,51	DEHUMIDIFIER REMOTE CONDENSER	GHB3015	15	(1) #14-#10 (Cu/Al)	

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.

PREPARED BY: Ken Capponi	DATE: 2/4/2026	Eaton	
APPROVED BY:	DATE:	JOB NAME: Mazon WTP	DESIGNATION: HV-1
VERSION: 1.0.0.90	TYPE: PRL4X	DRAWING TYPE: Customer Approval	
NEG-ALT Number: 035F0118XK1-0000	REVISION: 0	DWG SIZE: A	SHEET: 3 of 3

IMPORTANT NOTE TO ELECTRICAL CONTRACTOR:
NO PENETRATION IS ALLOWED THROUGH TOP
OF ENCLOSURE!!! WARRANTY WILL BE VOID!!!



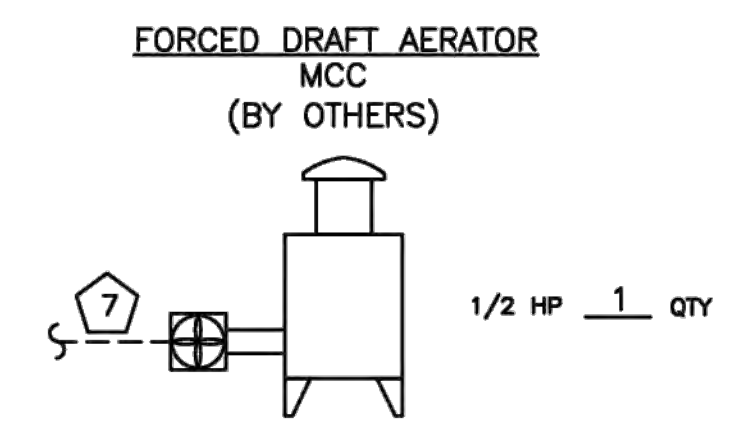
ELECTRICAL FIELD WIRING DIAGRAM NOTES

- * SOME NOTES MAY NOT APPLY
- 1) MOTOR STARTER AND CONTACTS ARE NOT BY TONKA WATER.
 - 2) DRY CONTACTS PROVIDED BY TONKA WATER RATED FOR 120 VAC @ 2 AMPS. RELAY LOCATED IN TONKA CONTROL PANEL, 120 VAC BY OTHERS.
 - 3) MCR= MOTOR CONTROL RELAY, 120 VAC.
 - 4) MCR LOCATED IN MOTOR CONTROL CENTER (MCC).
 - 5) 4-20 mA SIGNALS REQUIRE SHIELDED TWISTED PAIR IN DEDICATED CONDUIT, GROUND SHIELD AT CONTROL PANEL END ONLY.
 - 6) 24 VDC SIGNALS REQUIRE 2 EACH CONTROL/SIGNAL WIRES PER DEVICE.
 - 7) 208/230/460 3 ph 60 hz, BY OTHERS.
 - 8) REQUIRES 120 VAC, BY OTHERS.
 - 9) REQUIRES 2 EACH 120 VAC CONTROL/SIGNAL WIRES PER DEVICE.
 - 10) REQUIRES 3 EACH 120 VAC CONTROL/SIGNAL WIRES PER DEVICE.
 - 11) REQUIRES 4 EACH 120/240 VAC CONTROL/SIGNAL WIRES PER DEVICE.
 - 12) REQUIRES 5 EACH 120/240 VAC CONTROL/SIGNAL WIRES PER DEVICE.
 - 13) REQUIRES 6 EACH 120/240 VAC CONTROL/SIGNAL WIRES PER DEVICE.
 - 14) REQUIRES 2 EACH 120 VAC CONTROL/SIGNAL WIRES, PLUS GROUND, PER DEVICE.
 - 15) REQUIRES 2 EACH 120 VAC CONTROL/SIGNAL WIRES, PLUS GROUND, PER DEVICE, PER DUPLEX OUTLET.
 - 16) REQUIRES 3 EACH 120 VAC CONTROL/SIGNAL WIRES, PLUS ONE HEATER WIRE, PLUS GROUND WIRE, PER DEVICE.
 - 17) REQUIRES 3 POWER WIRES, PLUS GROUND.
 - 18) REQUIRES ONE NEUTRAL WIRE PER SOLENOID BANK, PLUS ONE CONTROL/SIGNAL WIRE PER SOLENOID, PLUS ONE SPARE WIRE PER SOLENOID BANK, PLUS GROUND WIRE.
 - 19) REQUIRES ONE NEUTRAL WIRE, PLUS TWO CONTROL/SIGNAL WIRES, PLUS ONE HEATER WIRE, PLUS GROUND, PER VALVE ACTUATOR.
 - 20) 24 VDC SIGNALS REQUIRE 2 EACH CONTROL/SIGNAL WIRES PER DEVICE. MULTI-SWITCH DEVICES REQUIRE ONE WIRE FOR +24 VDC PLUS ONE WIRE PER SWITCH.
 - 21) 4-20mA SIGNALS AND 24 VDC PULSE SIGNALS REQUIRE SHIELDED 2 WIRE TWISTED PAIR GROUNDED AT CONTROL PANEL ONLY.
 - 22) 4-20mA SIGNALS REQUIRES SHIELDED TWISTED PAIR IN DEDICATED CONDUIT, GROUND SHIELD AT CONTROL PANEL END ONLY.
 - 23) FLOW METER PULSE OUTPUT REQUIRES SHIELDED 2-WIRE CABLE GROUNDED AT CONTROL PANEL END ONLY.
 - 24) REQUIRES 4 WIRE SHIELDED CABLE.
 - 25) REQUIRES 2 EACH 24 VDC WIRES PER DEVICE.
 - 26) ANTENNA CABLE TO BE ELPRO #CC10/900 WITH TYPE N CONNECTORS, OR EQUAL.
 - 27) THERMAL OVERLOADS TO BE WIRED TO STARTER OR VFD. REQUIRES 2 EACH 120 VAC CONTROL/SIGNAL WIRES.

NOTE: 1) SOME ITEMS SHOWN MAY BE BY OTHERS - REFER TO TONKA WATER'S LETTER OF QUOTATION FOR ITEMS IN TONKA WATER'S SCOPE OF SUPPLY. SYSTEM SCHEMATIC SHOWN FOR REFERENCE PURPOSES ONLY.
2) ALL NATIONAL, (NEC) STATE, AND LOCAL CODES SHALL APPLY.
3) SUPPLY AND INSTALLATION OF WIRE AND CONDUIT BY OTHERS.

SEE NUMBERED NOTE
—— BY TONKA WATER - - - - BY OTHERS

TONKA SUPPLIED/CONTROLLED BY OTHERS



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	DO NOT SCALE DRAWING			www.kuritaamerica.com	
DRAWN BY: MRR	START DATE: 01/14/2026	ELECTRICAL FIELD WIRING DIAGRAM FDA/VERTACELL/RIDION PROPOSAL DRAWING MAZON, IL		1 OF 1	0
PROJECT MGR: AMS	DWS SCALE: NONE			DRAWING NUMBER: 155936	REV: 0
APPR BY:	APPR DATE:			FILE NO.: 9936.02	22608

CHAMLIN & ASSOCIATES, INC. © 2026
Drawing Name: G:\Users\VA9836-02_Mazon-New Water Treatment_Plot\CAD\039-TONKA-ELECTRICAL-WIRING-DIAGRAM.dwg Last Modified: Friday, February 6, 2026 10:56:35 AM Plotted On: Friday, February 6, 2026 3:21:39 PM by: aash.washkowiak

DRAWN BY: JWW	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: RTB				
DATE: 11/25				

PERU
OTTAWA MORRIS
ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

TONKA ELECTRICAL FIELD
WIRING DIAGRAM

BIDDING PLANS

CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 39

FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jg36-02-Mazon-New Water Treatment Plant\CAD\040 - SITE CONTROLS LIST (1 OF 2).dwg
 Last Modified: Friday, February 6, 2026 10:57:02 AM
 Plotted On: Friday, February 6, 2026 3:19:38 PM
 by: Josh Warkhovich

Tag No.	Item	Purpose	Control Panel	Provided By	SIGNAL DESCRIPTION	ID
PCP	Plant Control Panel			Primex		
TCP	Tonka		TCP (Tonka Control Panel)	Tonka	ETHERNET TO PLANT CONTROL PANEL	
G-1	Generator		Au	Cummins	ATS MONITORING	DI
					GENERATOR RUNNING	DI
					GENERATOR FAIL	DI
					FAULT	DI
					ENGINE TEMP	AI
					LOW FUEL	DI
WTRTU	Water Tower RTU			Primex	RADIO	
WT-1	Pressure Transmitter		Water Tower RTU	Primex	WATER TOWER LEVEL	AI
WCP	Well Control Panel			Primex	ETHERNET TO PLANT CONTROL PANEL	
WL-5			WSP-1	Primex	START	DO
				Primex	Overload	DI
				Primex	HOA IN HAND	DI
				Primex	HOA IN AUTO	DI
WL-7			WSP-1	Primex		
WL-8			WSP-1	Primex		
WL-11			WSP-2	Primex		
WL-12			WSP-2	Primex		
WL-13			WSP-2	Primex		
WL-14			WSP-2	Primex		
WL-15			WSP-2	Primex		
WL-16			WSP-2	Primex		
WL-17			WSP-2	Primex		
WL-18			WSP-2	Primex		
WL-19			WSP-2	Primex		
WL-20			WSP-2	Primex		
M-5	WELL 21 - Mag Meter	WELL 21 Mag Meter	Well 21 & 22 Control Panel	Primex	FLOW METER	DI
						AI
WL-21	WELL 21 - Variable Frequency Drive	WELL 21	Well 21 & 22 Control Panel	Primex	PUMP REQUIRED	DO
					PUMP RUNNING	DI
					PUMP VFD FAULT	DI
					PUMP HOA IN HAND	DI
					PUMP HOA IN AUTO	DI
					PUMP SPEED IN (COMMAND)	AI
					PUMP SPEED OUT (FEEDBACK)	AO
M-8	WELL 22 - Future Mag Meter	WELL 21 Mag Meter	Well 21 & 22 Control Panel	Primex	FLOW METER	DI
						AI
WL-22	Future Well	FUTURE	Well 21 & 22 Control Panel	Primex	PUMP REQUIRED	DO
					PUMP RUNNING	DI
					PUMP VFD FAULT	DI
					PUMP HOA IN HAND	DI
					PUMP HOA IN AUTO	DI
					PUMP SPEED IN (COMMAND)	AI
					PUMP SPEED OUT (FEEDBACK)	AO
	Sodium Hypochlorite					
S-1	Scale				Weight	AI
CF-1	Chem Feed Pump		PCP	Primex	Metering pump	DO
						AO
					FAULT	DI
CF-2	Chem Feed Pump		PCP	Primex	Metering pump	DO
						AO
					FAULT	DI
	Fluorosilicic acid					
S-2	Scale				Weight	AI
CF-3	Chem Feed Pump				Metering pump	DO
						AO
					FAULT	DI
	Orthophosphate					
S-3	Scale				Weight	AI
CF-4	Chem Feed Pump				Metering pump	DO
						AO
					FAULT	DI
M-6	Aeration Tank Mag Meter	WELL 21 Mag Meter	WCP	Primex	FLOW METER	DI
						AI
A-1	Aerator				RUNNING	DI
					REQUIRED	DO
					FAULT	DI
					HOA IN HAND	DI
					HOA IN AUTO	DI
A-2	RADAR	Clearwell Level	TCP	Tonka	LEVEL	AI
A-3	FLOAT	Clearwell Level	TCP	Tonka	LEVEL	DI
					LEVEL	DI

DRAWN BY: TRH	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: CLD					
DATE: 06/2025					



VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

SITE CONTROLS LIST
(1 OF 2)

BIDDING PLANS	CURRENT AS OF: 02/06/2026	
	SCALE: AS NOTED	SHEET 40
	FILE NO.: 9936.02 Y-	OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\A9336-02-Mazon-New Water Treatment Plant\CAD\041 - SITE CONTROLS LIST (2 OF 2).dwg Last Modified: Friday, February 6, 2026 10:58:23 AM Plotted On: Friday, February 6, 2026 3:18:34 PM by Josh Warkhovich

Tag No.	Item	Purpose	Control Panel	Provided By	SIGNAL DESCRIPTION	IO	
B-1	BRINE TANK (FOGROD)				LEVEL	DI	
					LEVEL	DI	
					LEVEL	DI	
					LEVEL	DI	
					LEVEL	DI	
B-2	BRINE TANK (FOGROD)				LEVEL	DI	
					LEVEL	DI	
					LEVEL	DI	
					LEVEL	DI	
					LEVEL	DI	
M-1	HSP Pump 1 Mag Meter	HSP Pump 1 Mag Meter	PCP	Primex	HSP PUMP FLOW METER	DI	
HSP-1	Variable Frequency Drive	HSP	PCP	Primex		AI	
						PUMP REQUIRED	DO
						PUMP RUNNING	DI
						PUMP VFD FAULT	DI
						PUMP HOA IN HAND	DI
						PUMP HOA IN AUTO	DI
						PUMP SPEED IN (COMMAND)	AI
	PUMP SPEED OUT (FEEDBACK)	AO					
M-2	HSP Pump 2 Mag Meter	HSP Pump 2 Mag Meter	PCP	Primex	HSP PUMP FLOW METER	DI	
HSP-2	Variable Frequency Drive	HSP	PCP	Primex		AI	
						PUMP REQUIRED	DO
						PUMP RUNNING	DI
						PUMP VFD FAULT	DI
						PUMP HOA IN HAND	DI
						PUMP HOA IN AUTO	DI
						PUMP SPEED IN (COMMAND)	AI
	PUMP SPEED OUT (FEEDBACK)	AO					
LSCP	Lift Station Control Panel			Primex	ETHERNET TO PLANT CONTROL PANEL		
M-3	Lift Station Pump 1 Mag Meter	LS Pump 1 Mag Meter	LSCP	Primex	FLOW METER	DI	
LS-1	Variable Frequency Drive	LS	LSCP	Primex		AI	
						PUMP REQUIRED	DO
						PUMP RUNNING	DI
						PUMP VFD FAULT	DI
						PUMP HOA IN HAND	DI
						PUMP HOA IN AUTO	DI
						PUMP SPEED IN (COMMAND)	AI
	PUMP SPEED OUT (FEEDBACK)	AO					
M-4	Lift Station Pump 2 Mag Meter	LS Pump 2 Mag Meter	LSCP	Primex	FLOW METER	DI	
LS-2	Variable Frequency Drive	LS	LSCP	Primex		AI	
						PUMP REQUIRED	DO
						PUMP RUNNING	DI
						PUMP VFD FAULT	DI
						PUMP HOA IN HAND	DI
						PUMP HOA IN AUTO	DI
						PUMP SPEED IN (COMMAND)	AI
	PUMP SPEED OUT (FEEDBACK)	AO					
LS-3	Radar	Lift Station Level	LSCP	Primex	LIFT STATION LEVEL	AI	
LS-4	Mechanical Floats	Lift Station Level	LSCP	Primex		DI	
						LEVEL	DI
						LEVEL	DI
						LEVEL	DI
						LEVEL	DI
RPZ - 1	RPZ	Flood Sensor	PCP	Primex	Flood	DI	
M-7	Finished Water Mag Meter		PCP	Primex	FLOW METER	DI	
CCA-1	Continuous Chlorine Analyzer		PCP	Primex	ETHERNET TO PLANT CONTROL PANEL		
FWP-1	Finished Water Pressure Transmitter		PCP	Primex	FINISHED WATER PRESSURE	AI	

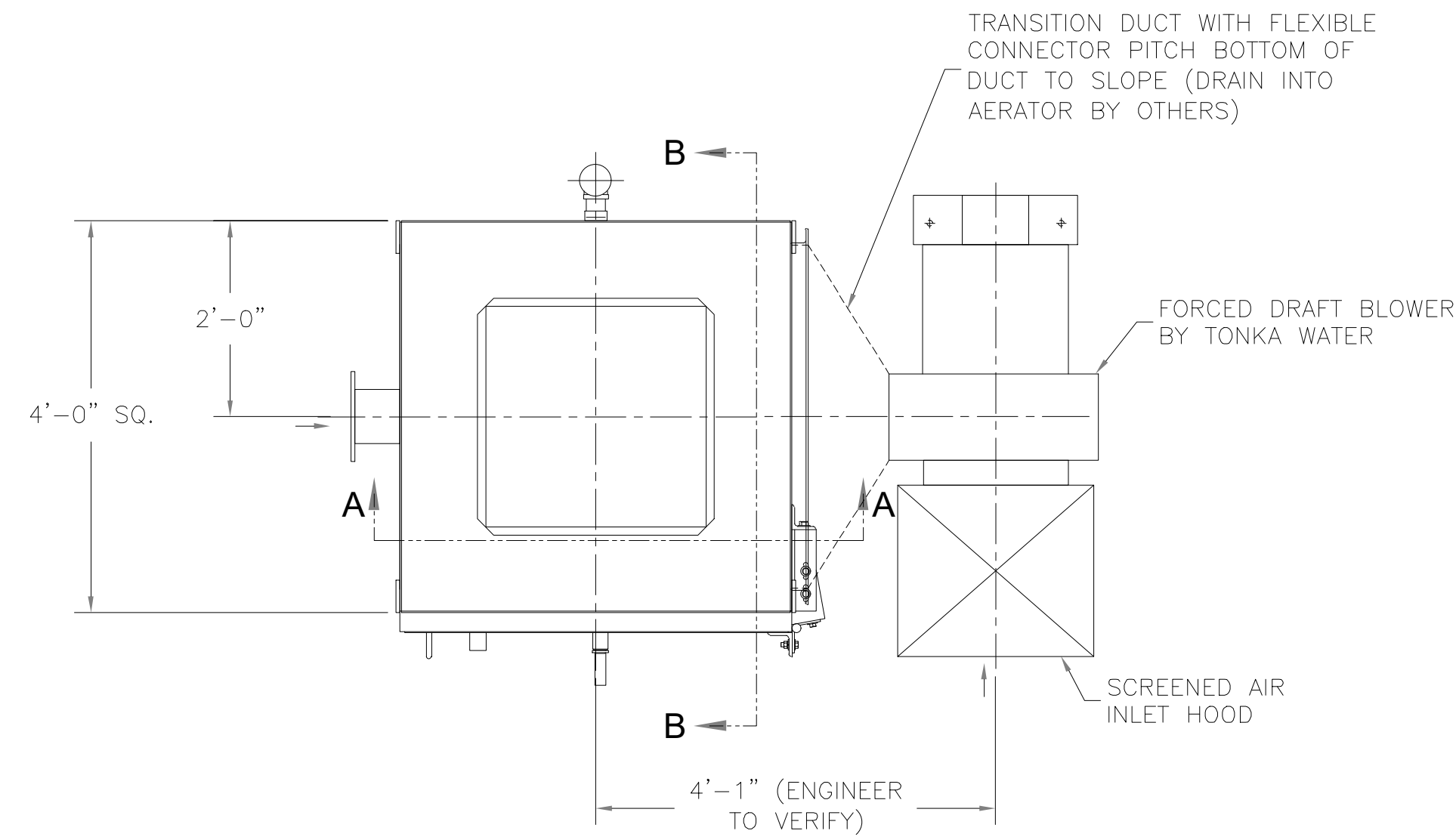
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CHECKED BY: CLD					
DATE: 06/2025					



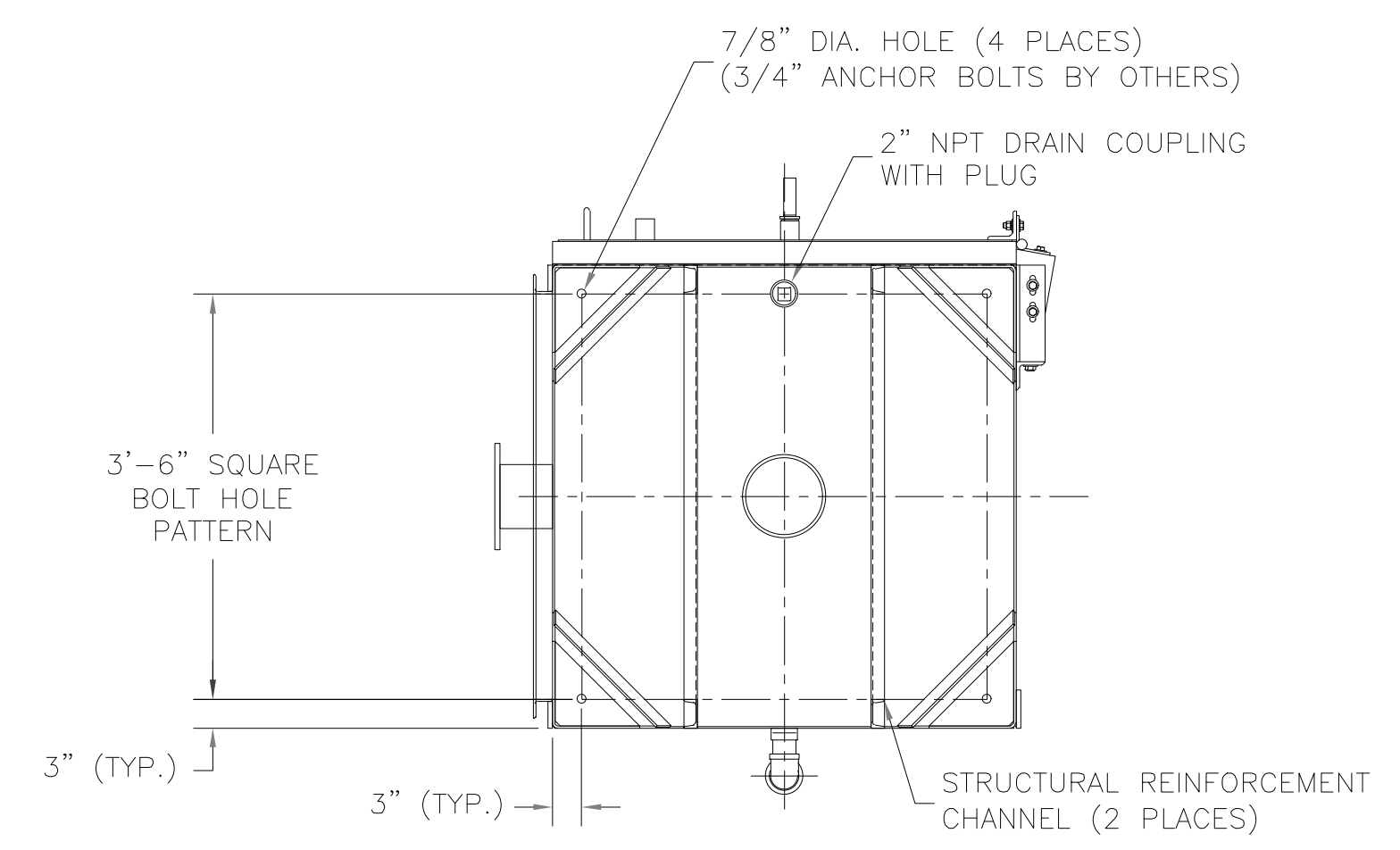
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

SITE CONTROLS LIST
(2 OF 2)

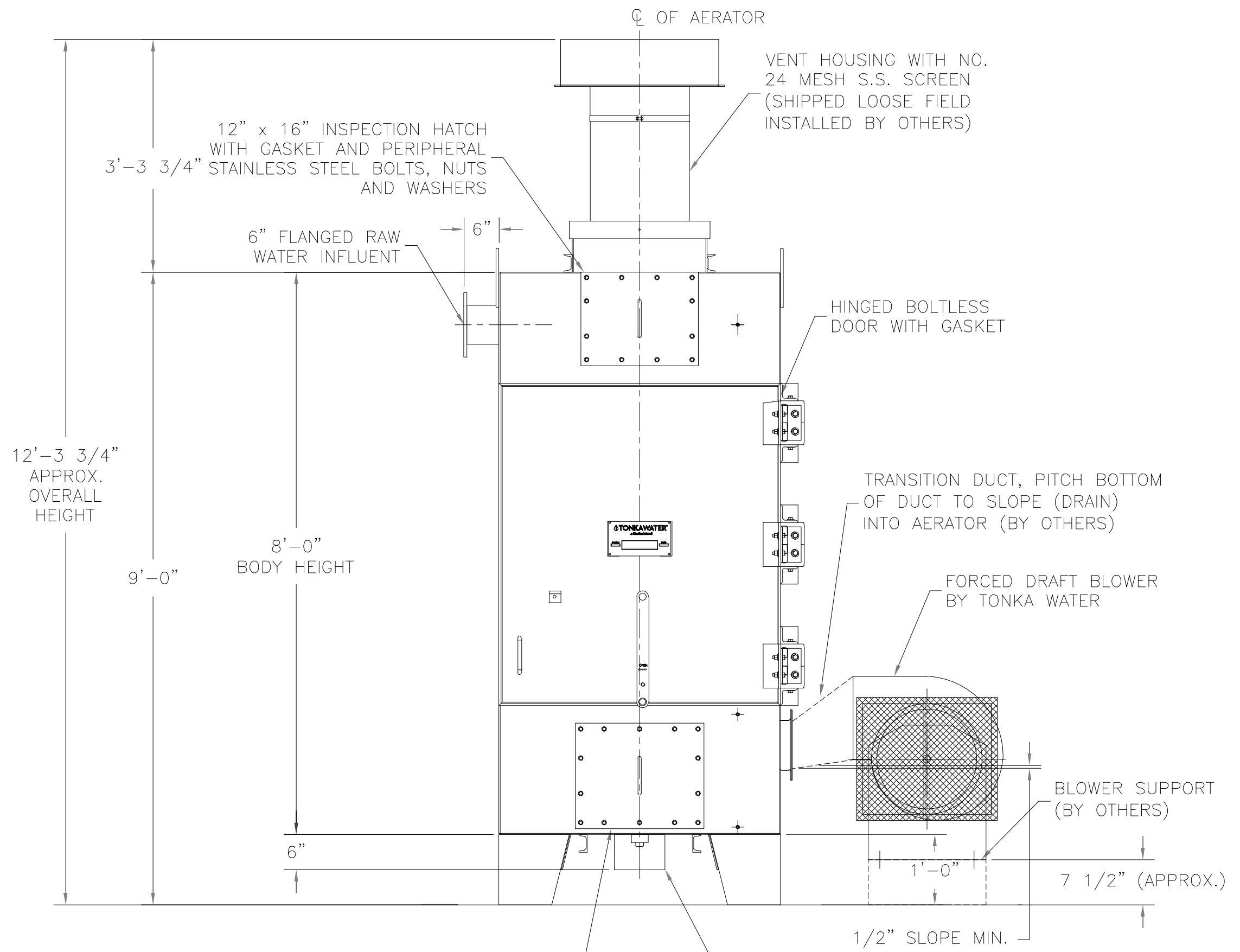
BIDDING PLANS	CURRENT AS OF: 02/06/2026		
	SCALE: AS NOTED	SHEET 41	
	FILE NO.: 9936.02	Y-	OF 55



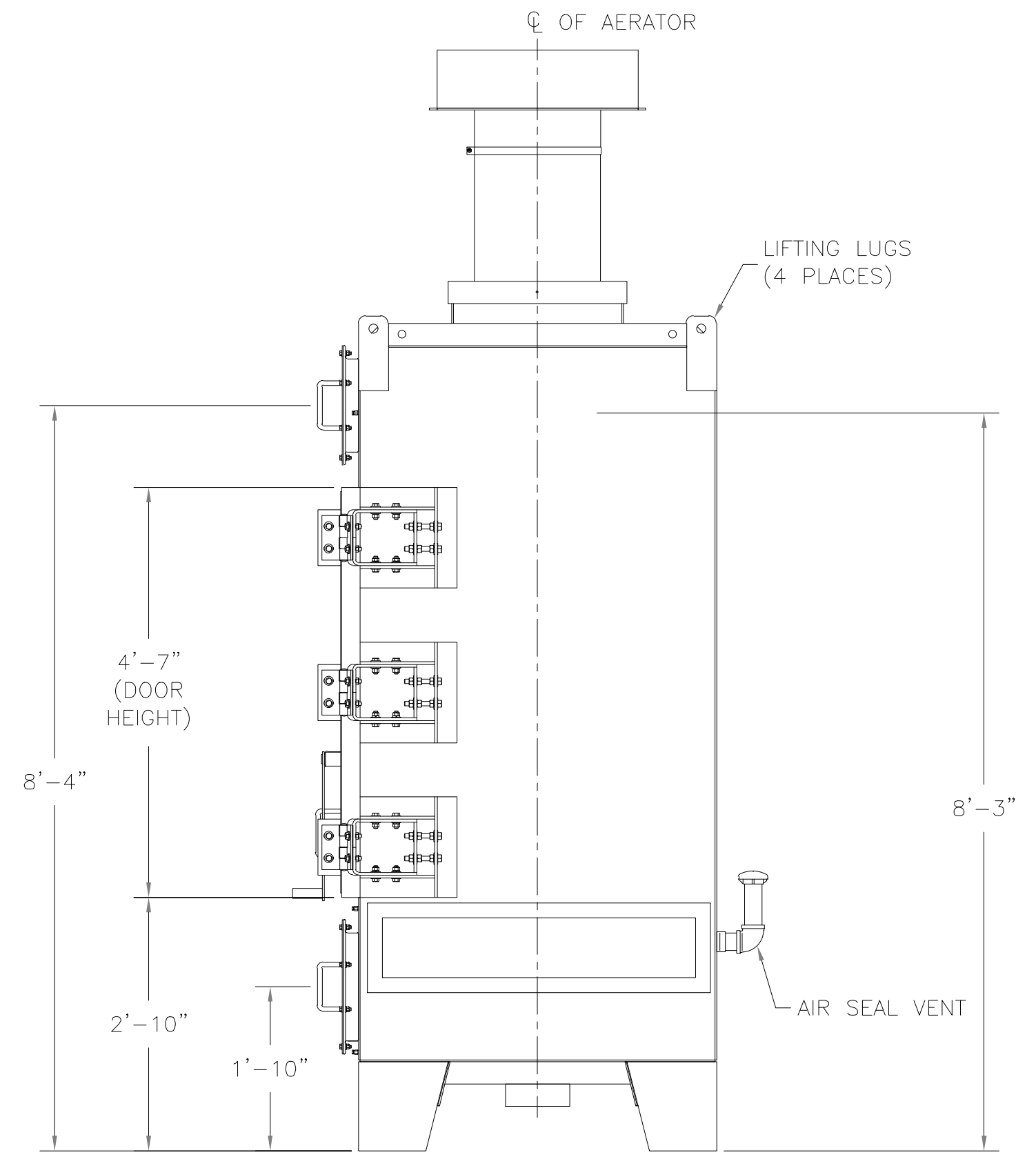
PLAN VIEW
SCALE: 3/4"=1'-0"



BOTTOM VIEW OF FRONT ELEVATION
SCALE: 3/4"=1'-0"



FRONT ELEVATION
SCALE: 3/8"=1'-0"



SIDE ELEVATION
SCALE: 3/8"=1'-0"

AERATOR SPECIFICATIONS

- NUMBER OF UNITS:
ONE (1)
- WATER FLOW RATE:
400 GPM
- AIR FLOW RATE:
1,600 CFM @ 3/8" STATIC PRESSURE
- BLOWER MOTOR:
1/4 HP, 230/460 VOLT, 3 PHASE, 60Hz, TEFC
- BODY CONSTRUCTION:
3/16" THICK ALUMINUM PLATE (TYPE 3003-F OR 3003-H-14)
WITH TYPE 6061-T6 STRUCTURAL MEMBERS

NOTES

- 1) THE WEIGHT OF THE INTERCONNECTING PIPING MUST NOT BE TRANSMITTED OR SUPPORTED BY THE AERATOR UNIT. PIPING SUPPORTS BY OTHERS.
- 2) FORCED DRAFT BLOWER MOTOR STARTER MUST BE WIRED TO RUN WITH WELL PUMP. MOTOR STARTER AND CONTACTS ARE NOT BY TONKA WATER.
- 3) EXTERIOR OF THE AERATOR TO BE BUFF BLASTED FOR EVEN TEXTURED APPEARANCE.
- 4) ALL PIPING BY OTHERS UNLESS OTHERWISE NOTED.
- 5) FLANGES HAVE BOLT HOLES LOCATED ON SPLIT CENTERS WITH THE SAME BOLT PATTERN AS CLASS 125 LB CAST IRON FLANGES.
- 6) CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL EXTERNAL PIPING CONNECTIONS AND COMPONENTS.
- 7) AERATOR VENT HOUSING, FORCED DRAFT BLOWER AND AIR SEAL VENT WILL BE SHIPPED LOOSE FOR INSTALLATION BY OTHERS.
- 8) THE AERATOR CHAMBER SHALL BE FACTORY TESTED TO INSURE ALL WELDS ARE WATERTIGHT.
- 9) PROPER EARTH GROUND BY OTHERS.

**NOTE:
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	DO NOT SCALE DRAWING		www.kuritaamerica.com	
DRAWN BY: MRR	START DATE: 07/17/2025	FDA 4'-0" SQ. PROPOSAL DRAWING MAZON, IL		SHEET NUMBER: 1 OF 2
PROJECT MGR: AMS	DWG. SCALE: AS NOTED			REV: 0
APPR. BY:	APPR. DATE:			DRAWING NUMBER: 155321

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Drawing Name: G:\Users\jva\9836-02-Mazon-New Water Treatment Plant\CAD\042-TONKA FDA DRAWING.dwg
Last Modified: Friday, February 6, 2026 1:44:43 PM
Plotted On: Friday, February 6, 2026 3:18:08 PM
by: Josh Washkowiak

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

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**VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026**

**TONKA FDA SYSTEM REFERENCE
INFORMATION**

**BIDDING
PLANS**

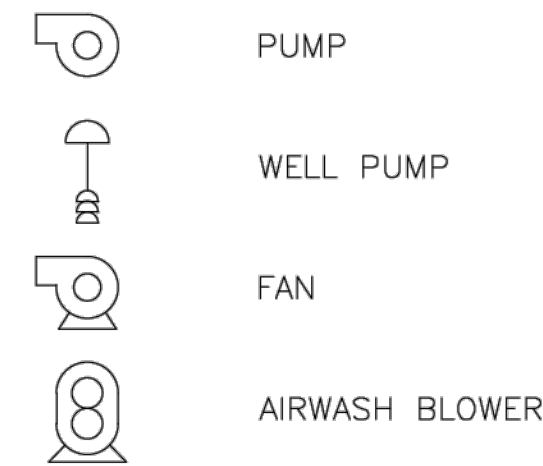
CURRENT AS OF: **02/06/2026**

SCALE: AS NOTED SHEET **42**

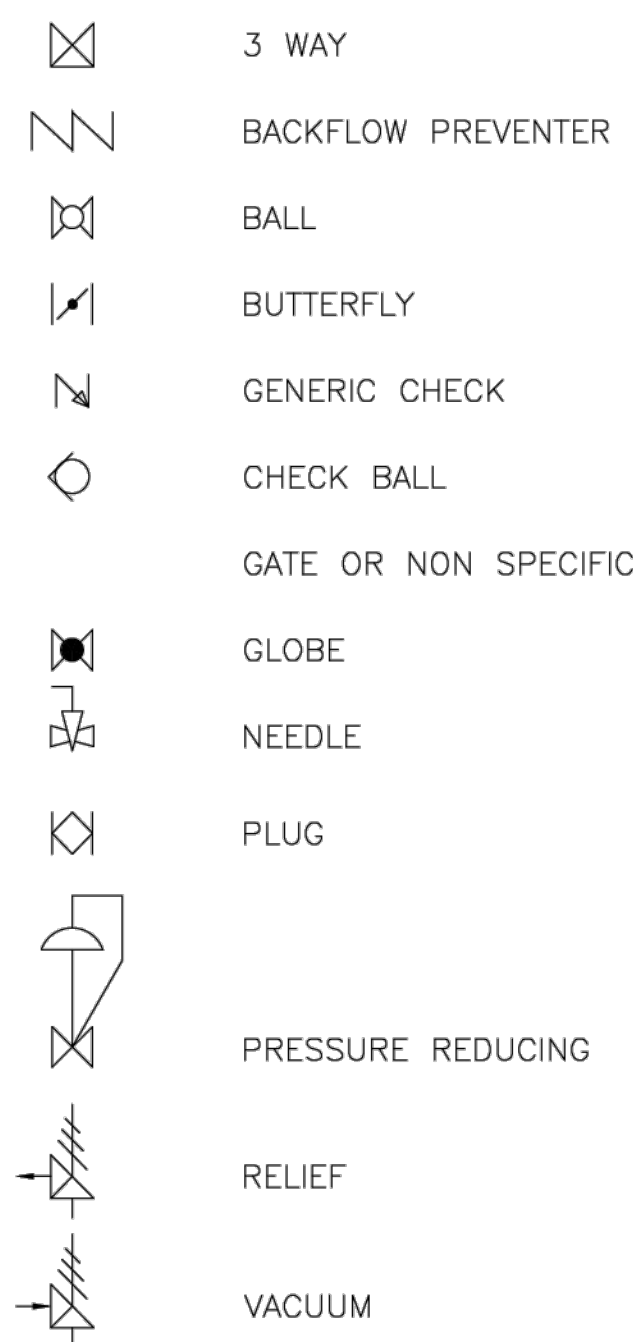
FILE NO.: 9936.02 Y- OF **55**

LEGEND

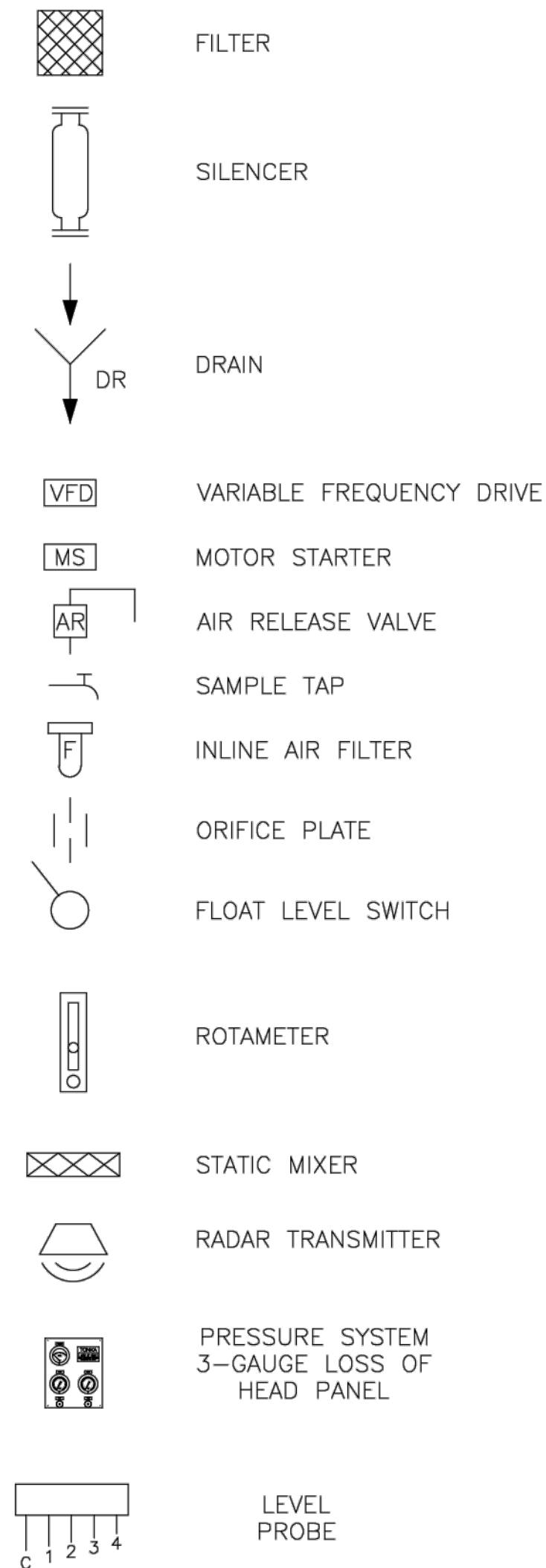
PUMPS/BLOWERS



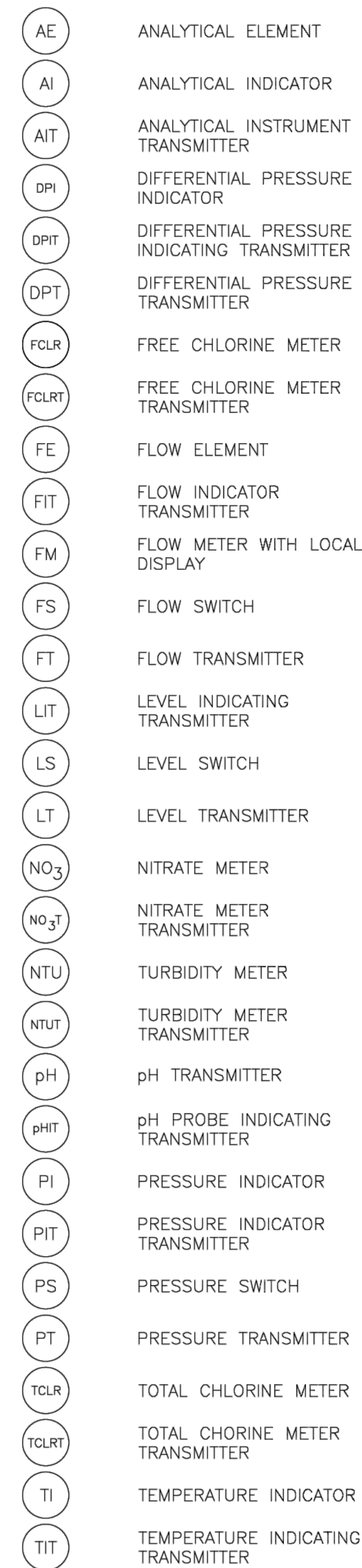
VALVES



MISC. COMPONENTS



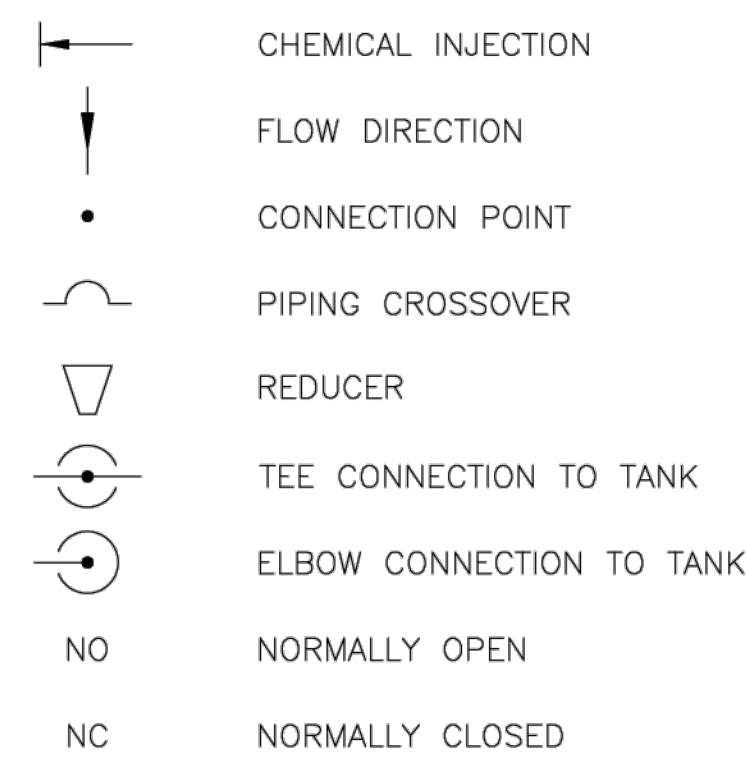
INSTRUMENTATION



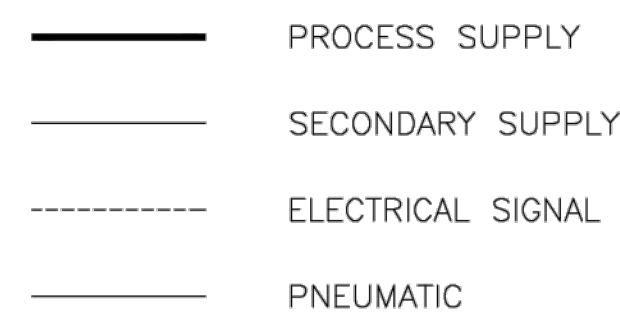
VALVE NOMENCLATURE

API	AIR PRESSURE INFLUENT
AWI	AIRWASH INFLUENT
BDI	BRINE DILUTION INFLUENT
BRI	BRINE INFLUENT
BRS	BACKWASH RATE SET
BTR	BRINE TANK REFILL
BWE	BACKWASH EFFLUENT
BWI	BACKWASH INFLUENT
BWR	BACKWASH EFFLUENT RATE SET
BWS	BACKWASH SUPPLY
CBE	COMMON BACKWASH EFFLUENT
CBI	COMMON BRINE INFLUENT
CRV	CAUSTIC RINSE VALVE
CWE	COMMON WATER EFFLUENT
DDE	DRAIN DOWN EFFLUENT
FAP	FILTERED AIR PRESSURIZATION
FCI	FILTER CELL INFLUENT
FCV	FLOAT CONTROL VALVE
FMV	FLOW MODULATING VALVE
FPR	FILTER PURGE REFILL
FRE	FAST RINSE EFFLUENT
FTW	COMMON FILTER TO WASTE
FTW	FILTER TO WASTE
FWE	FILTERED WATER EFFLUENT
HWB	HARD WATER BLEND
ISO	ISOLATION
LMV	LEVEL MODULATING VALVE
RWI	RAW WATER INFLUENT
SBD	SLUDGE BLOWDOWN
SFB	SLUDGE FLUSH BACK
SRI	SLOW RINSE INFLUENT
SRS	SIMUL-WASH RATE SET
SWI	SIMULWASH INFLUENT
TWE	TREATED WATER EFFLUENT

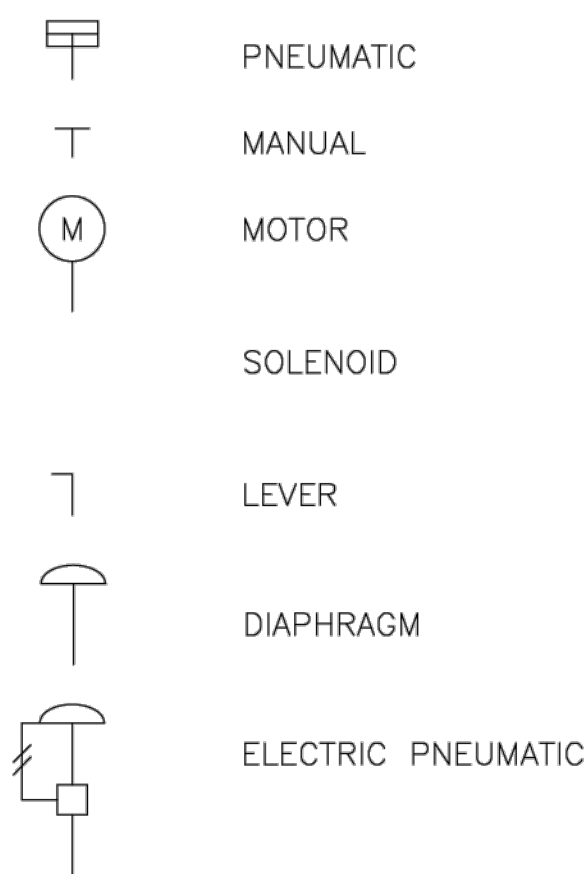
GENERAL



PIPING



ACTUATORS



ITEMS ENCLOSED IN BOX SUPPLY BY TONKA WATER CONTROL BY TONKA WATER

CONFIDENTIAL

NOTE: SOME ITEMS SHOWN MAY BE BY OTHERS - REFER TO TONKA WATER LETTER OF QUOTATION FOR ITEMS IN TONKA WATER SCOPE OF SUPPLY. PROCESS FLOW DIAGRAM FOR REFERENCE PURPOSES ONLY.

CHEMICAL NOMENCLATURE

Al ₂ (SO ₄) ₃ -H ₂ O	ALUMINUM SULFATE
NaOH	CAUSTIC SODA
Cl ₂	CHLORINE
FeCl ₃	FERRIC CHLORIDE
HCl	HYDROCHLORIC ACID
IM	IRON MAN
CaO	LIME
MnSO ₄	MANGANESE SULFATE
KMnO ₄	POTASSIUM PERMANGANATE
Na ₂ CO ₃	SODA ASH
H ₂ SO ₃	SULFURIC ACID

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DRAWN BY: MRR	START DATE: 01/14/2026	PROCESS FLOW DIAGRAM FDA/VERTACELL™/RIDION™ PROPOSAL DRAWING MAZON, IL		SHEET NUMBER: 1 OF 3	REV: 0
PROJECT MGR: AMS	DWS SCALE: NONE			DRAWING NUMBER: 155937	PROJECT NUMBER: 22608
APPR. BY:	APPR. DATE:				

CHAMLIN & ASSOCIATES, INC. © 2026
Drawing Name: G:\Users\jw\OneDrive\Work\Projects\2026\10\58\58_AK - Mazon-New Water Treatment Plant\CAD\043-TONKA PROCESS FLOW DIAGRAM (1 OF 3).dwg Last Modified: Friday, February 6, 2026 3:17:28 PM by Josh Washkovic

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**VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026**

**TONKA PROCESS FLOW DIAGRAM
(1 OF 3)**

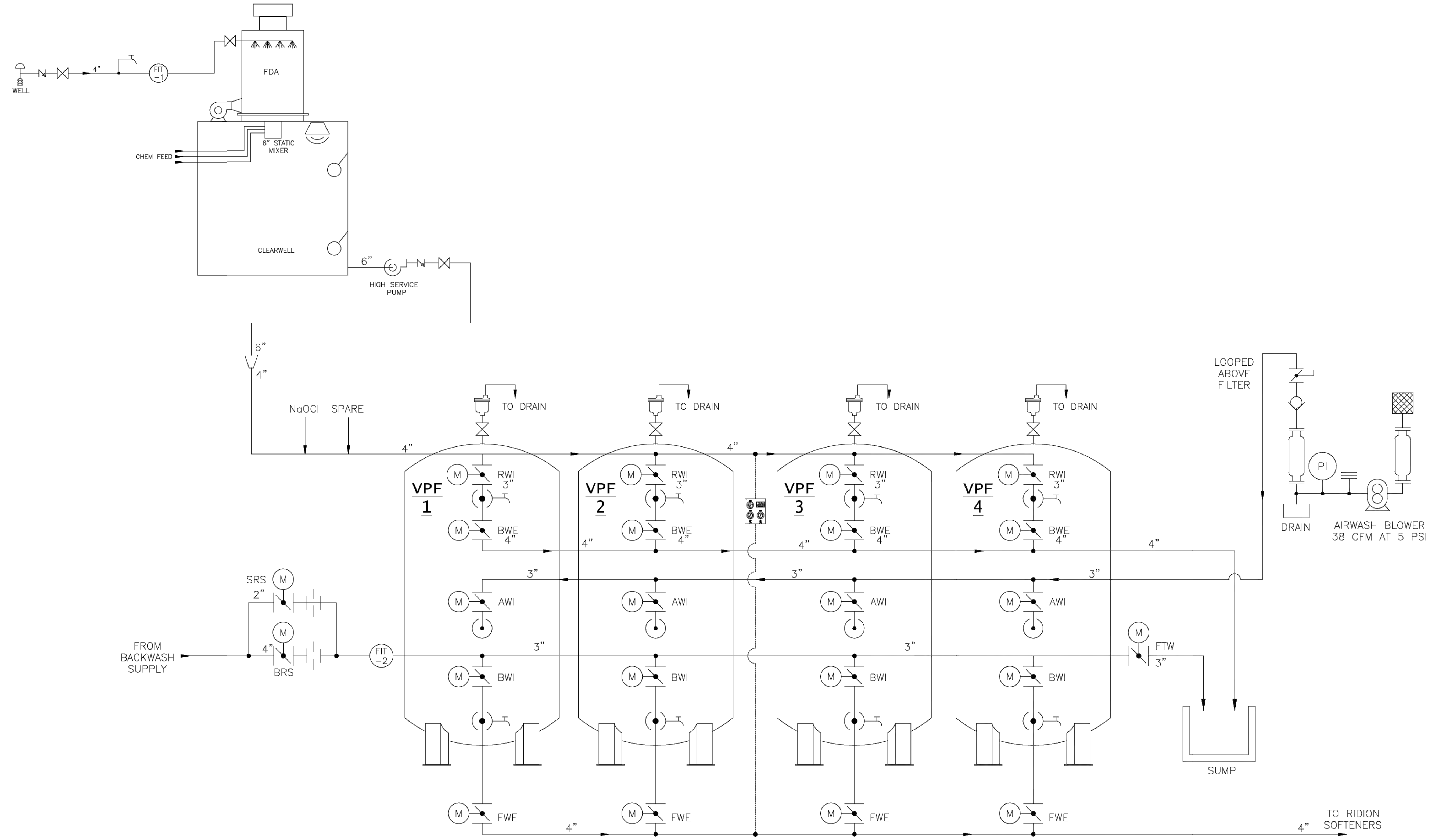
BIDDING PLANS

CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 43

FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\JA_9316-02_Mazon-New Water Treatment Plant\CAD\044-TONKA_PROCESS_FLOW_DIAGRAM (2 OF 3).dwg - Last Modified: Friday, February 6, 2026 10:59:53 AM - Plotted On: Friday, February 6, 2026 3:16:53 PM - by: Josh Woskowiak



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	DRAWN BY: MRR	START DATE: 01/14/2026		PROCESS FLOW DIAGRAM FDA/VERTACELL™/RIDION™ PROPOSAL DRAWING MAZON, IL		SHEET NUMBER: 2 OF 3	REV: 0	
	PROJECT MGR: AMS	DWG. SCALE: NONE				DRAWING NUMBER: 155937		PROJECT NUMBER: 22608
	APPR. BY:	APPR. DATE:						

DRAWN BY:	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
JJW					
CHECKED BY:					
DATE:					

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**VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026**

**TONKA PROCESS FLOW DIAGRAM
(2 OF 3)**

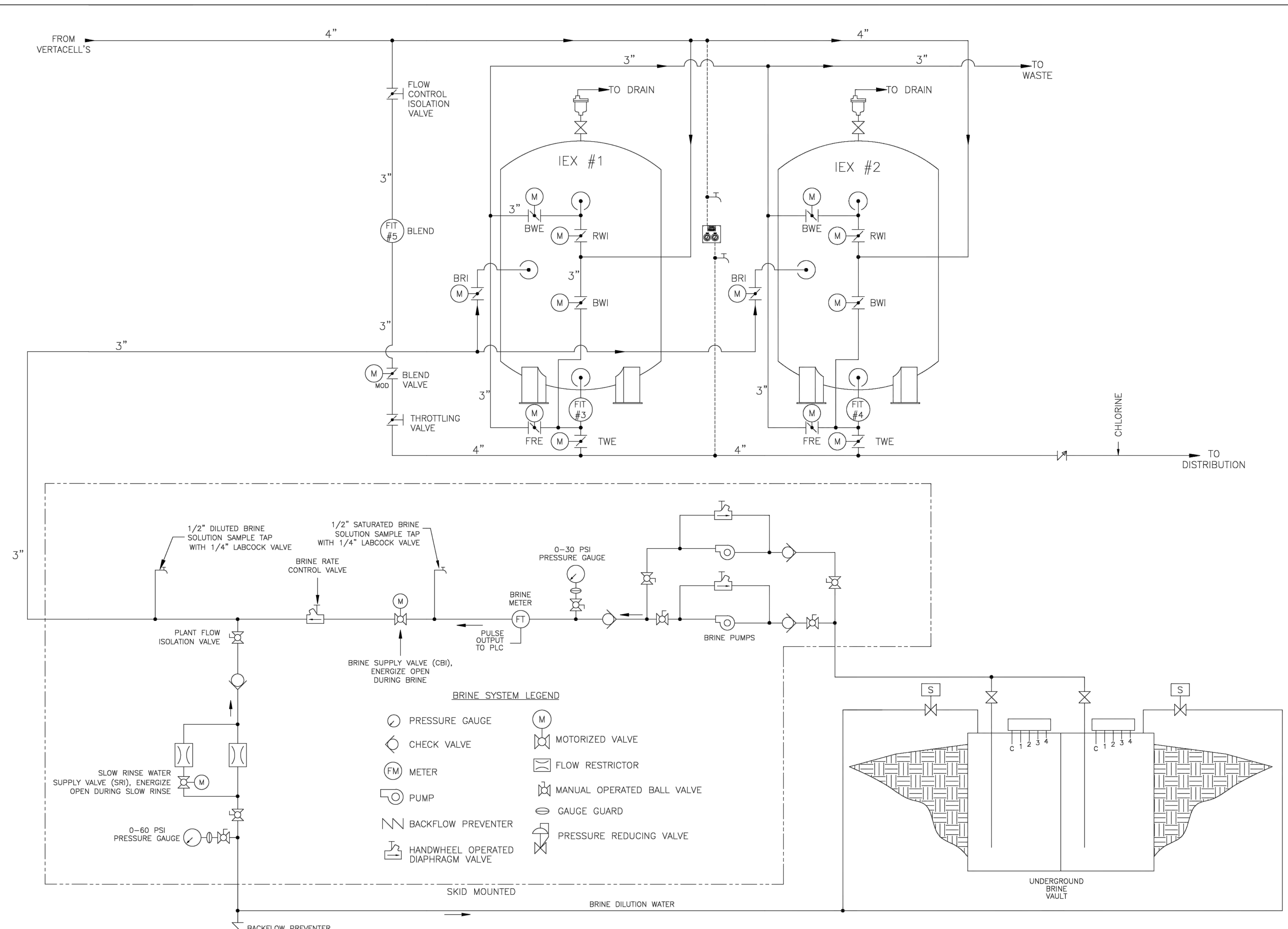
**BIDDING
PLANS**

CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 44

FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jw\9336-02-Mazon-New Water Treatment Plant\CAD\045-TONKA PROCESS FLOW DIAGRAM (3 OF 3).dwg Last Modified: Friday, February 6, 2026 11:00:24 AM Plotted On: Friday, February 6, 2026 3:14:53 PM by Josh Washkowiak



NOTE:
 COMPONENTS SUPPLIED BY TONKA UNLESS OTHERWISE NOTED. INTERCONNECTING PIPING BY CONTRACTOR. SOME ITEMS SHOWN MAY BE BY CONTRACTOR - REFER TO TONKA LETTER OF QUOTATION FOR ITEMS IN TONKA SCOPE OF SUPPLY. SYSTEM SCHEMATIC SHOWN FOR REFERENCE PURPOSES ONLY.

D <small>DRAWING SIZE</small> <small>ALL RIGHTS TO MANUFACTURE, COPY, REPRODUCE OR DEPOSE OF THIS DRAWING OR ITS CONTENTS ARE RESERVED UNLESS OTHERWISE SPECIFIED IN WRITING BY KURITA AMERICA, INC.</small> <small>DO NOT SCALE DRAWING</small>			6600 94th Avenue North Minneapolis, MN 55445 www.kuritaamerica.com	
	PROCESS FLOW DIAGRAM FDA/VERTACELL™/RIDION™ PROPOSAL DRAWING MAZON, IL		SHEET NUMBER: 1 OF 3	REV: 0
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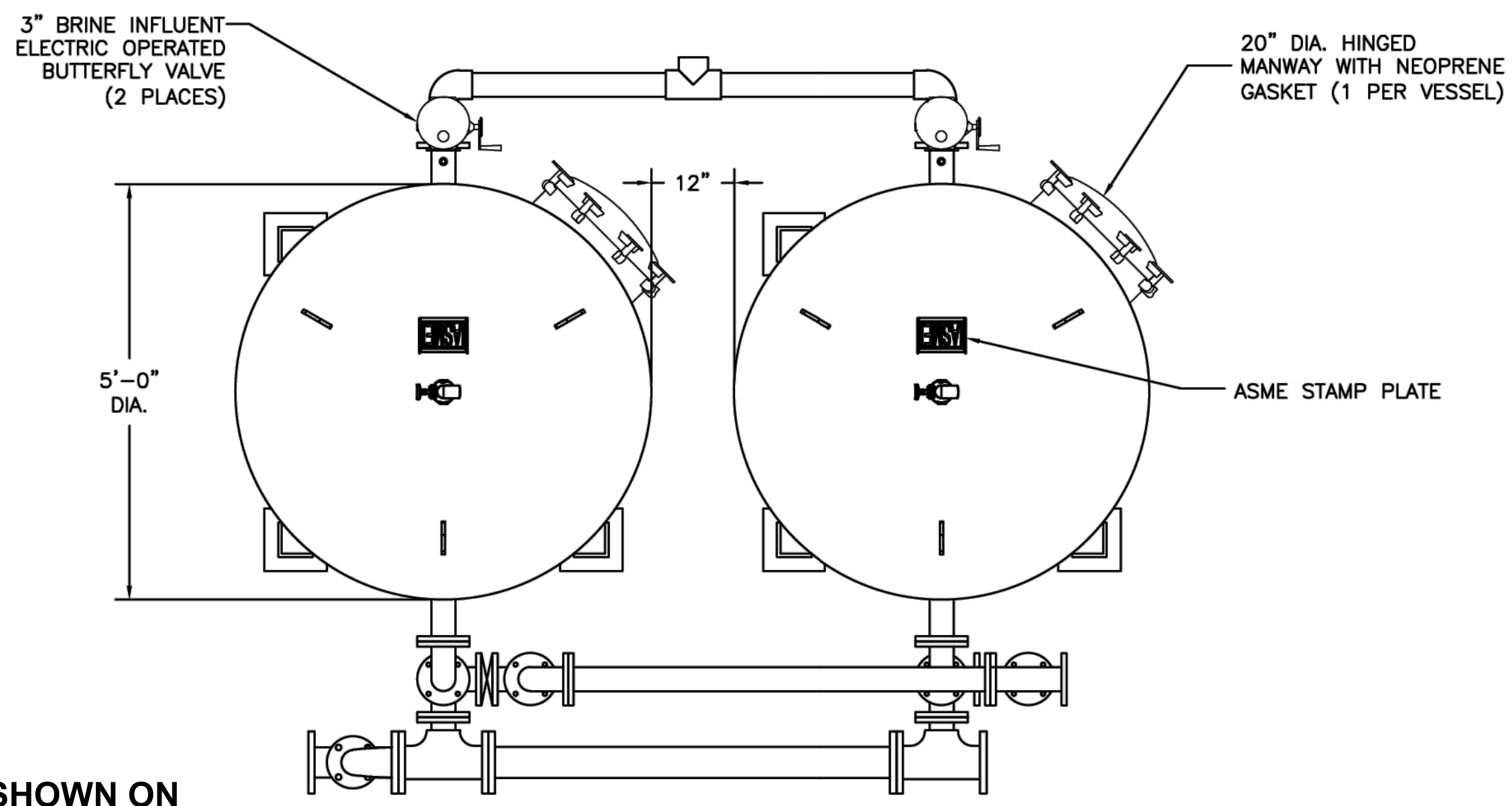
REVISIONS				
LEVEL	BY	DATE	DESCRIPTION	

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**VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026**

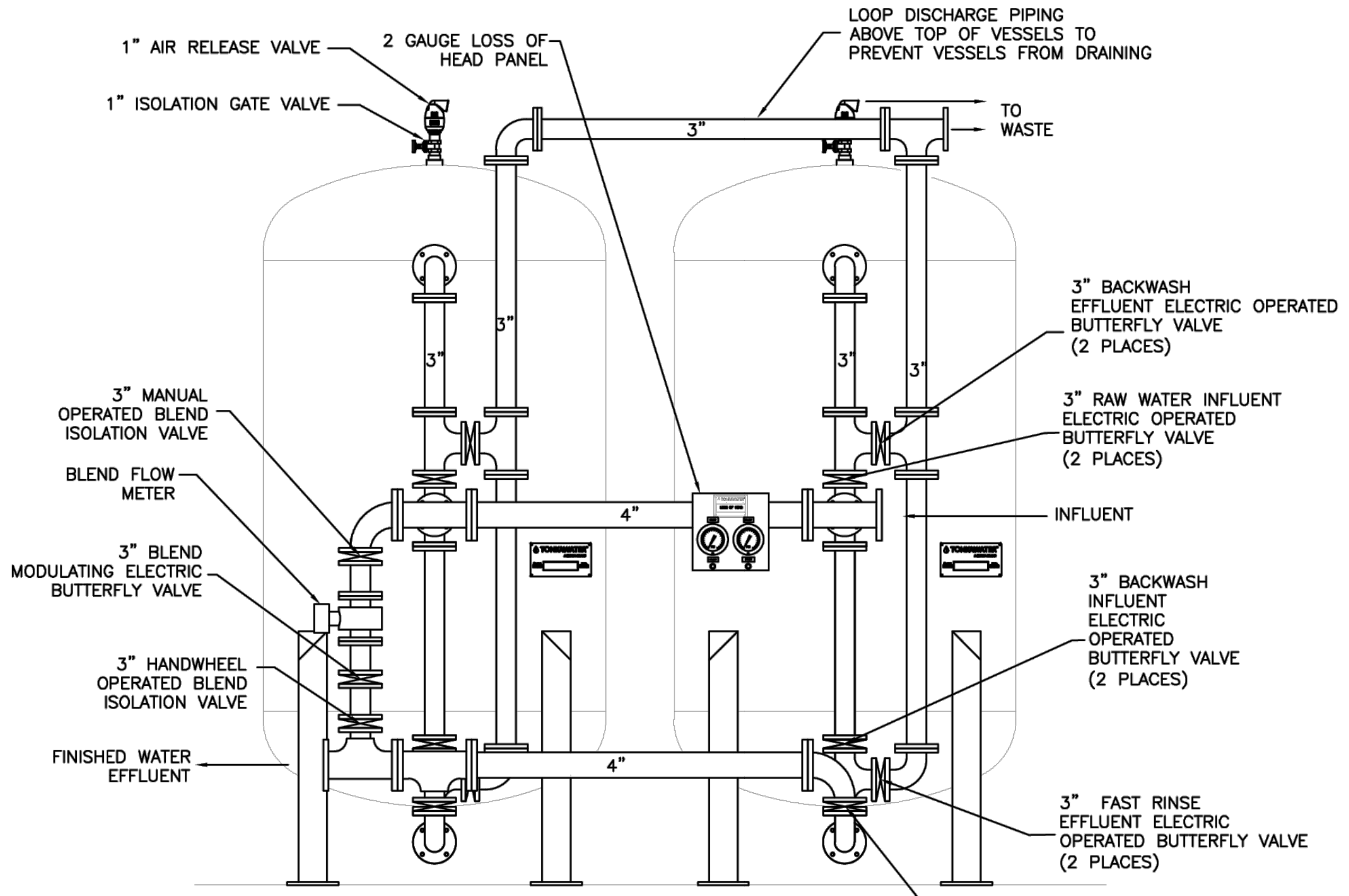
**TONKA PROCESS FLOW DIAGRAM
 (3 OF 3)**

BIDDING PLANS
 CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

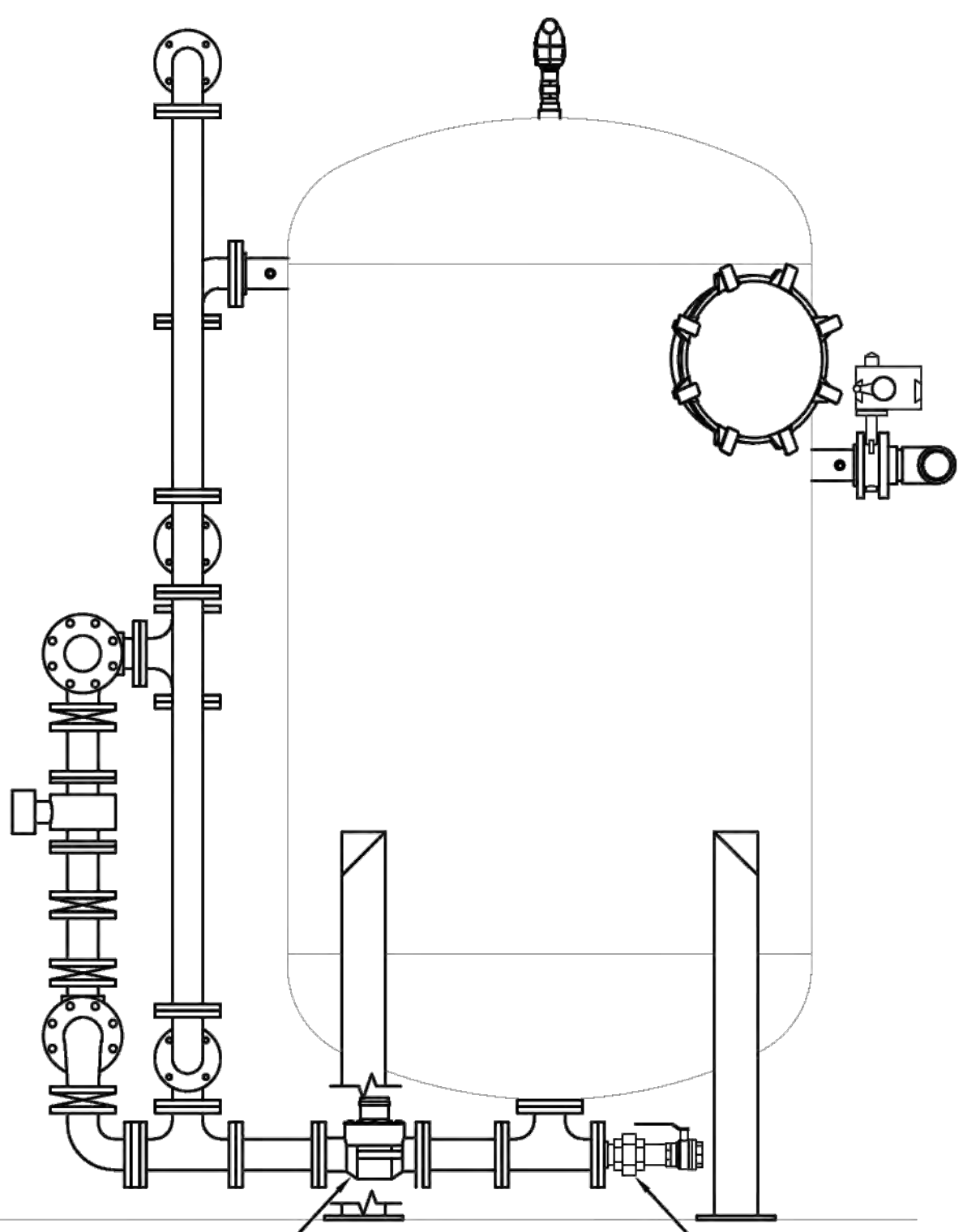


PLAN VIEW
SCALE: 3/4"=1'-0"

NOTE:
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FRONT ELEVATION
SCALE: 3/4"=1'-0"



RIGHT ELEVATION
SCALE: 3/4"=1'-0"

RIDION™ SPECIFICATIONS:

- PLANT FLOW: 150 GPM
- TREATMENT RATE: 111 GPM (2.8 GPM/SQ. FT.)
- BYPASS RATE: 39 GPM
- VESSEL AREA: 19.6 SQ. FT./VESSEL
- BACKWASH RATE: 98 GPM
- BRINE RATE: 15 GPM
- SLOW RINSE: 15 GPM
- FAST RINSE: 56 GPM
- SUPPORT GRAVELS:
 - 4" DEPTH - 3/4" x 1/2" GRADED GRAVEL
 - 4" DEPTH - 1/2" x 1/4" GRADED GRAVEL
 - 4" DEPTH - 1/4" x 1/8" GRADED GRAVEL
 - 3" DEPTH - 0.80 to 1.20 MM TORPEDO SAND
- ION EXCHANGE RESIN: 36" BED DEPTH
- NUMBER OF VESSELS: TWO (2)
- PRESSURE VESSEL REQUIREMENTS: CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF THE ASME CODE SECTION VIII, DIV 1 FOR NON-FIRED PRESSURE VESSEL DESIGN.
- VESSELS SHALL BEAR ASME STAMP.
- PIPE:
 - INTERIOR BRINE PIPING - SCH. 80 PVC
 - INTERIOR PIPING - SCH. 40 STEEL
 - EXTERIOR FACE PIPING - SCH. 40 STEEL AND DUCTILE IRON FITTINGS
 - EXTERIOR BRINE PIPING - SCH. 80 PVC
- UNDERDRAIN:
 - TONKA STANDARD PVC HEADER/LATERAL UNDERDRAIN SYSTEM WITH HIGH IMPACT ABS DIFFUSER NOZZLES ON APPROXIMATELY 12" CENTERS. (CONCRETE SUBFILL REQUIRED BY INSTALLING CONTRACTOR)
- TANK FLANGES:
 - 150 LBS. SLIP ON WELDED FLANGE, WELDED ON SPLIT CENTERS
- CONSTRUCTION:
 - 5'-0" DIA.
 - WORKING PRESSURE: 100 PSIG
 - HYDROSTATIC PRESSURE: 130 PSIG
 - ASME CODE TANK

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	DRAWN BY: MRR	START DATE: 10/29/2025		RIDION™ SOFTENER SYSTEM 5'-0" DIA. PROPOSAL DRAWING MAZON, IL	
PROJECT MGR: AMS	DATE NOTED: AS NOTED			DRAWING NUMBER: 154318	PROJECT NUMBER: 22608

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Drawing Name: G:\Users\jw\OneDrive\Work\Projects\2026\11-08-26\11-08-26.dwg
Last Modified: Friday, February 6, 2026 11:08:48 AM
Plotted On: Friday, February 6, 2026 3:10:32 PM
by: Josh Washkovich

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VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

TONKA SOFTENER SYSTEM REFERENCE INFORMATION
(1 OF 2)

BIDDING PLANS

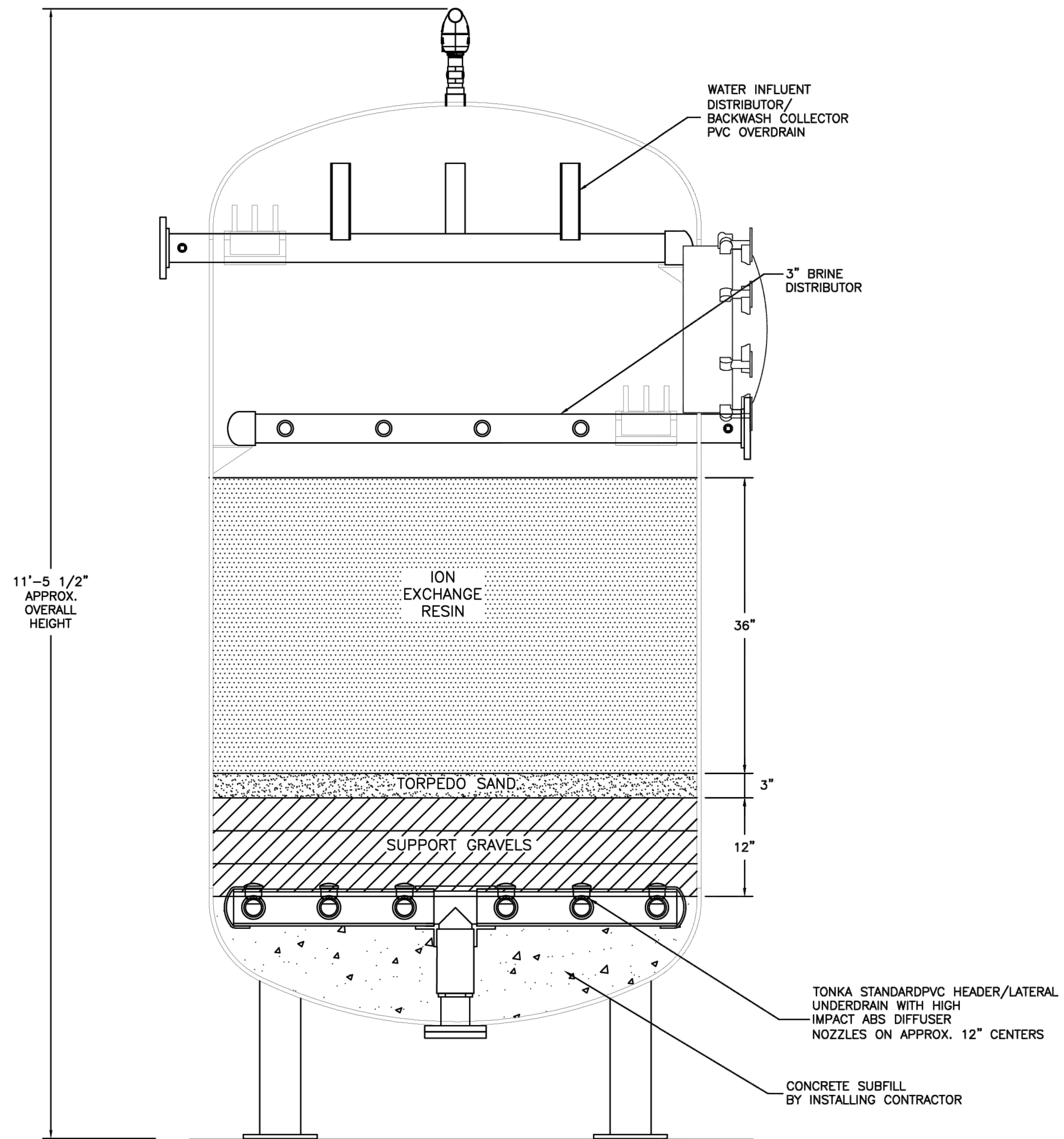
CURRENT AS OF: 02/06/2026

SCALE: AS NOTED SHEET 46

FILE NO.: 9936.02 Y- OF 55

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 Drawing Name: G:\Users\VA_9836-02_Mazon-New Water Treatment Plant\CAD\047-TONKA SOFTNER DRAWINGS (2 OF 2).dwg
 Last Modified: Friday, February 6, 2026 11:09:06 AM
 Plotted On: Friday, February 6, 2026 3:08:41 PM by Josh Washkovich

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TYPICAL SECTION
SCALE: 1 1/2"=1'-0"

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	DRAWN BY: MRR PROJECT MGR: AMS APPR. BY:	START DATE: 10/29/2025 DWG. SCALE: AS NOTED APPR. DATE:		RIDION™ SOFTENER SYSTEM 5'-0" DIA. PROPOSAL DRAWING MAZON, IL	
				DRAWING NUMBER: 154318	PROJECT NUMBER: 22608

DRAWN BY:	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: RTB					
DATE: 11/25					

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 NEW WATER TREATMENT PLANT
 2026

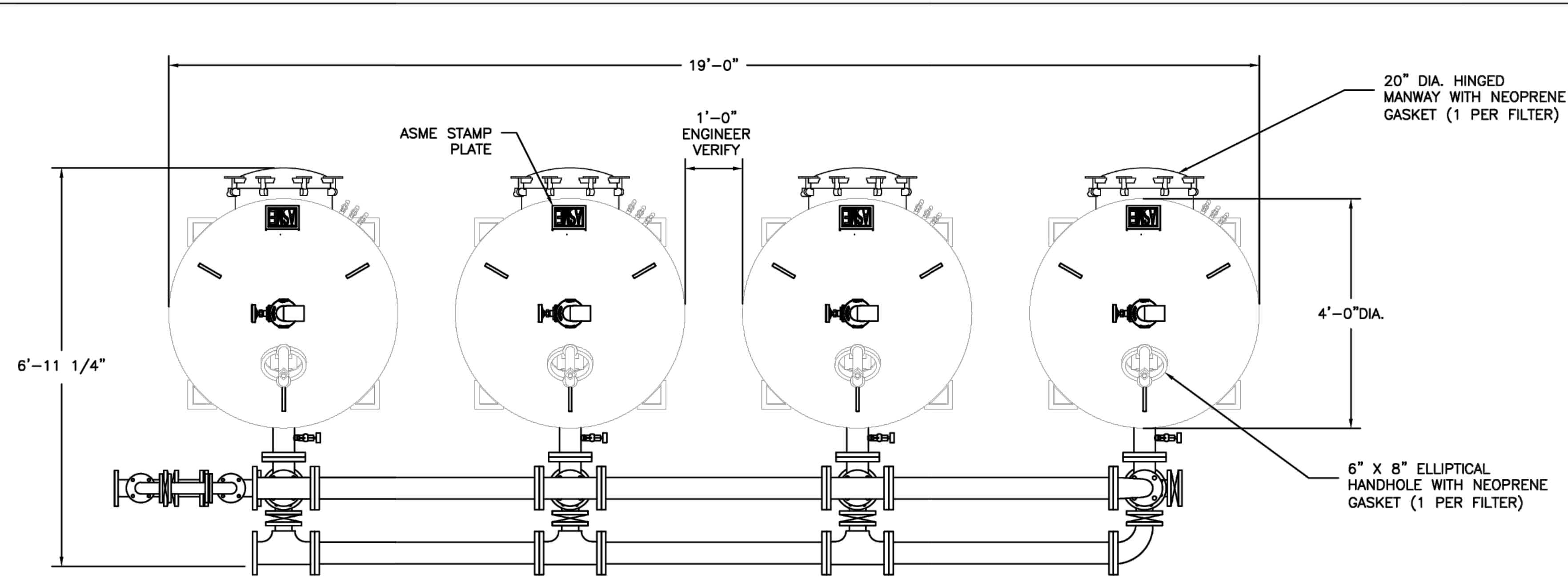
TONKA SOFTENER SYSTEM REFERENCE INFORMATION
 (2 OF 2)

**BIDDING
PLANS**

CURRENT AS OF: **02/06/2026**
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

SHEET **47**
 OF **55**

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\VA\9336-02-Mazon-New Water Treatment Plant\CAD\048-TONKA VERTICAL FILTER DRAWINGS (1 of 2).dwg
 Last Modified: Friday, February 6, 2026 11:09:19 AM
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 by: Josh Washkewick

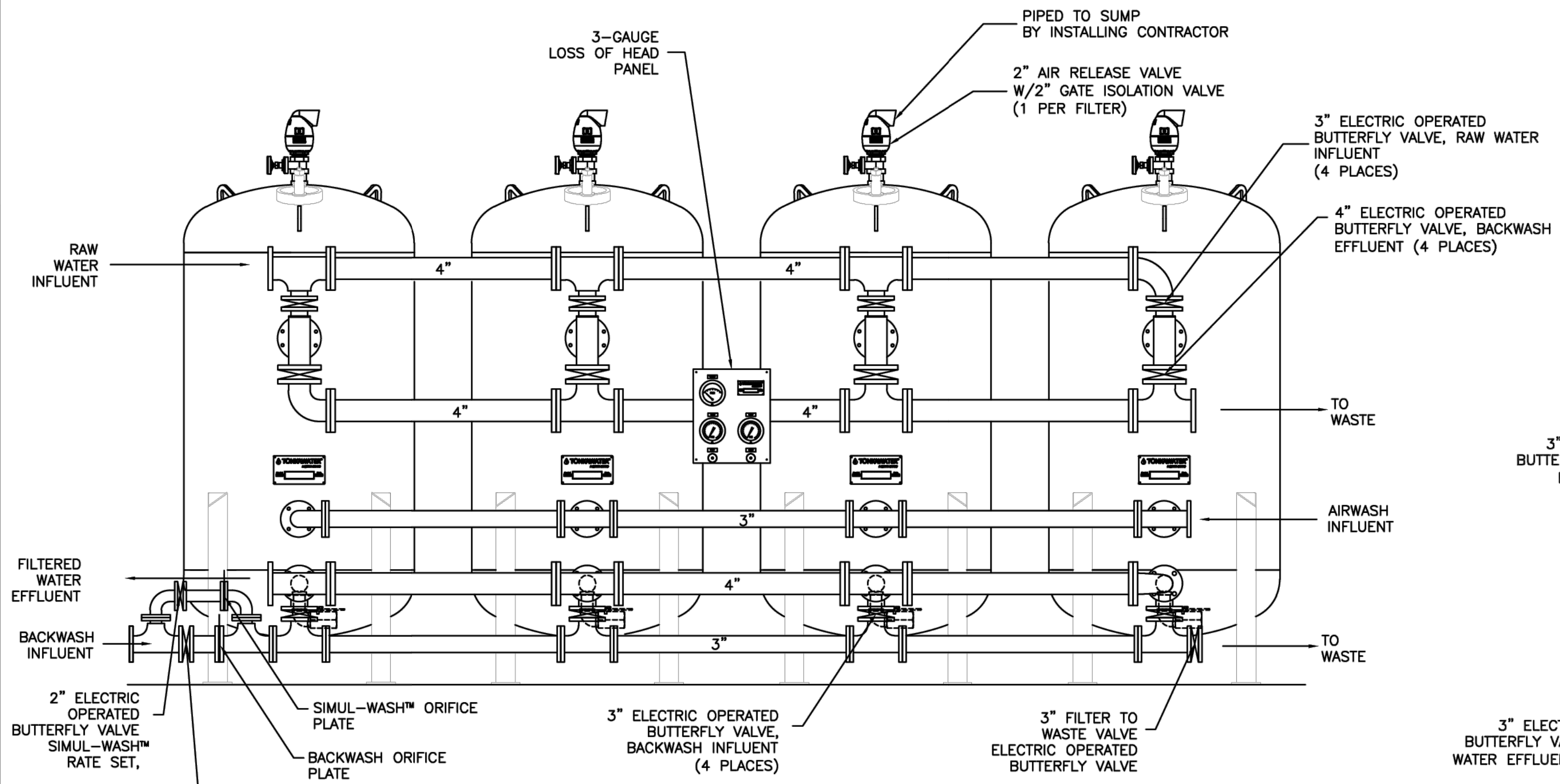


PLAN VIEW
SCALE: 3/4"=1'-0"

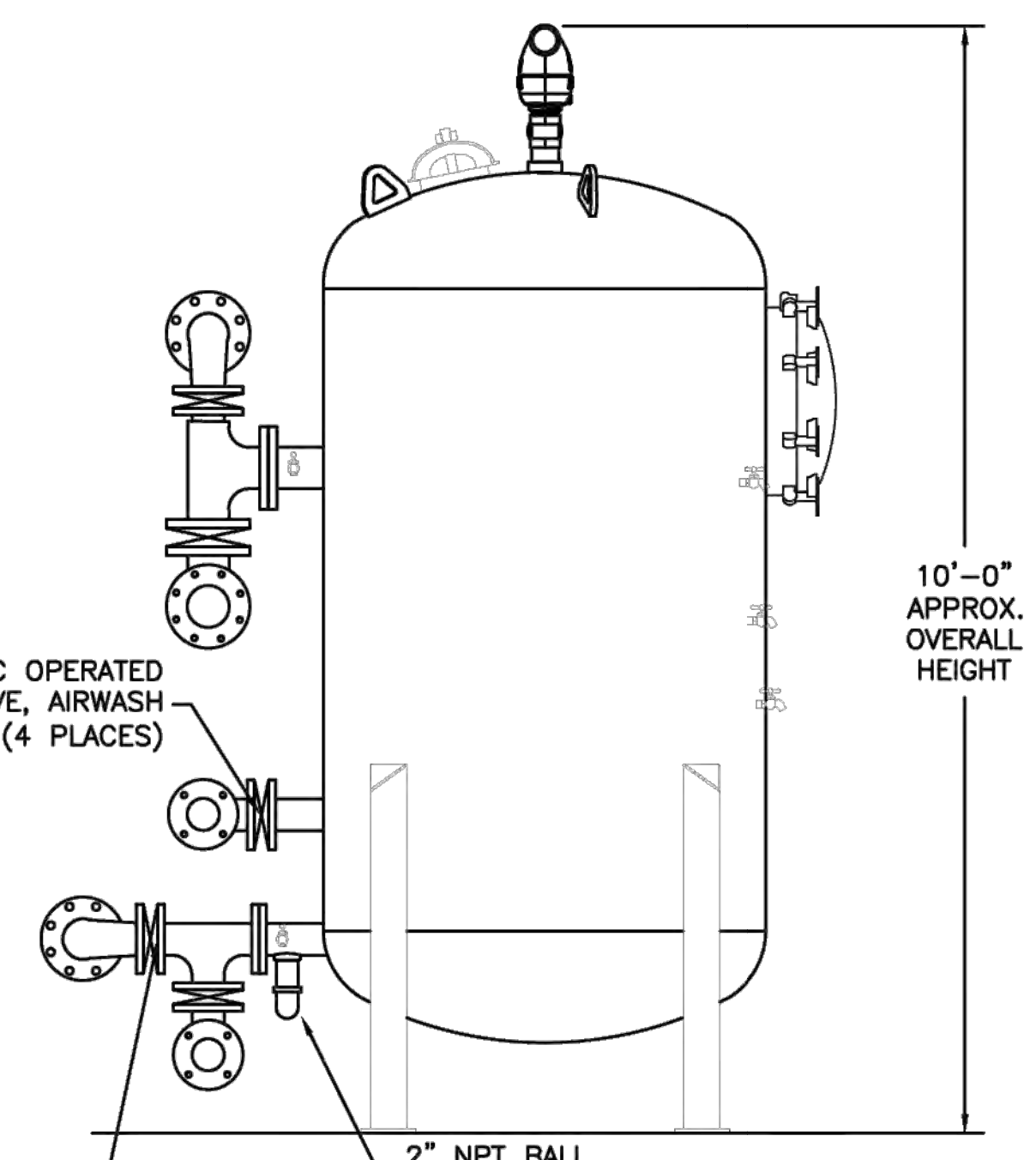
SPECIFICATIONS:

- NUMBER OF FILTERS:
FOUR (4)
- FILTRATION AREA:
12.6 SQ. FT. PER FILTER
- FILTRATION RATE:
150 GPM (3.0 GPM/SQ. FT. WITH ALL VESSELS IN SERVICE)
(4.0 GPM/SQ. FT. WITH ONE VESSEL OFF LINE)
- SIMUL-WASH™ WATER RATE:
38 GPM (3 GPM/SQ. FT.)
- AIR RATE:
38 CFM (3 CFM/SQ. FT.)
- BACKWASH RATE:
126 GPM (10 GPM/SQ. FT.),
(APPROXIMATE - ACTUAL GPM TO BE DETERMINED IN FIELD DURING START-UP)
- SUPPORT GRAVELS:
4" - 3/4" x 1/2" GRADED GRAVEL
4" - 1/2" x 1/4" GRADED GRAVEL
4" - 1/4" x 1/8" GRADED GRAVEL
3" - 0.8-1.2 mm TORPEDO SAND WITH UNIFORMITY COEFFICIENT LESS THAN 1.6
- FILTER MEDIA:
18" GREENSAND PLUS
12" ANTHRACITE
- FACEPIPING:
SCHEDULE 40 AND 80 PVC
- FLANGES:
150 LBS. SLIP ON FLANGE - BOLT HOLES ON SPLIT CENTERS
- COUPLINGS:
300 LB. NPT
- CONSTRUCTION:
4'-0" DIA.
WORKING PRESSURE - 100 PSI
HYDROSTATIC TEST PRESSURE - 130 PSI ASME CODE, STAMPED
- UNDERDRAIN DESIGN:
TONKA PVC HEADER/LATERAL
UNDERDRAIN COLLECTION/BACKWASH WATER DISTRIBUTION SYSTEM WITH TONKA ABS DIFFUSER NOZZLES

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FRONT ELEVATION
SCALE: 3/4"=1'-0"



RIGHT SIDE VIEW
SCALE: 3/4"=1'-0"

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	DRAWING BY: MRR	START DATE: 07/31/2025		VERTACELL™ PRESSURE FILTER 4'-0" DIA. PROPOSAL DRAWING MAZON, IL	
PROJECT MGR: AMS	AS NOTED			151950	
APPR. BY:	APPR. DATE:			22608	

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU
 OTTAWA MORRIS
 ILLINOIS

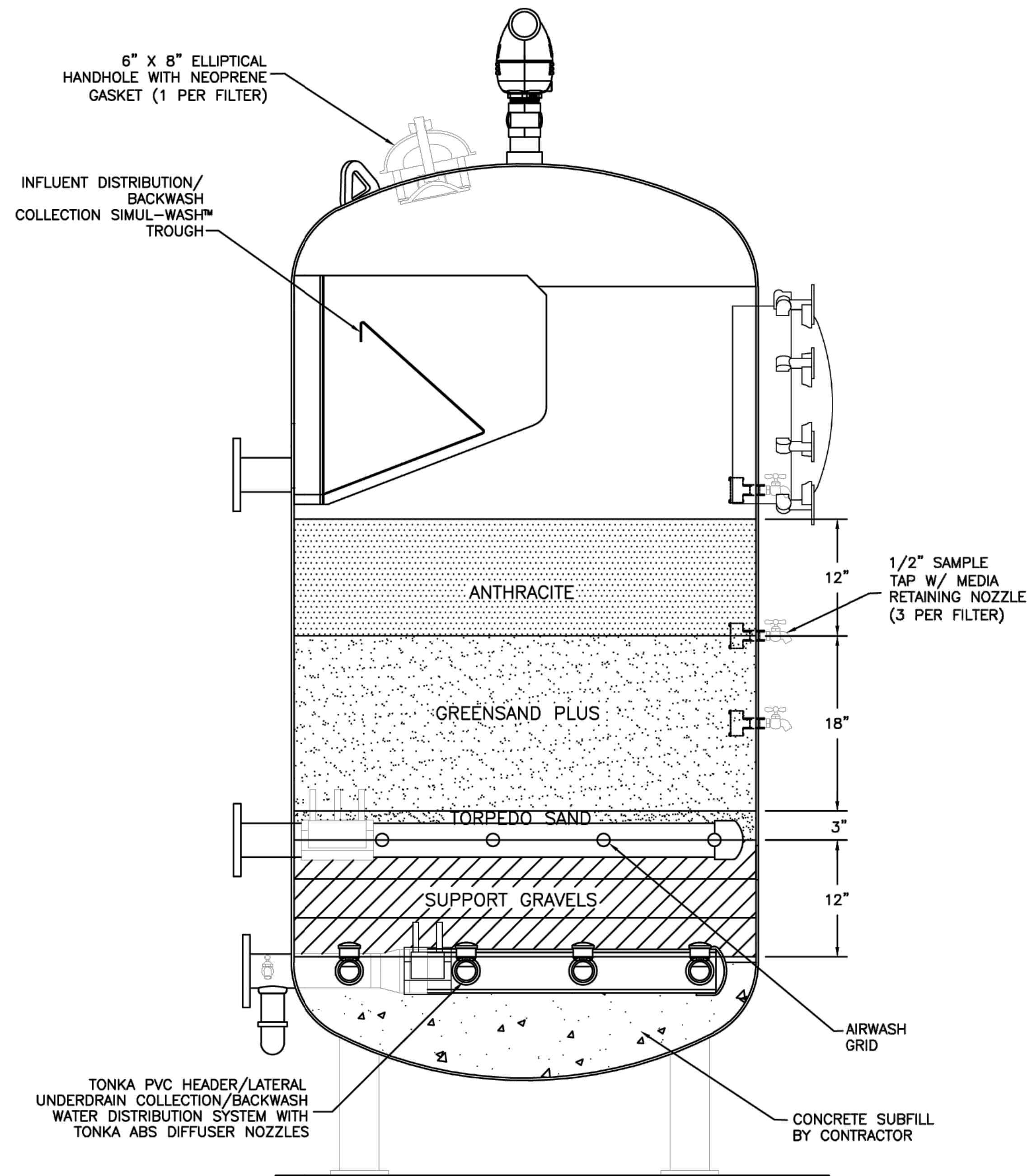
VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026

TONKA PRESSURE FILTER SYSTEM
 REFERENCE INFORMATION
 (1 OF 2)

BIDDING PLANS
 CURRENT AS OF: 02/06/2026
 SCALE: AS NOTED
 FILE NO.: 9936.02 Y- OF 55

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\VA9316-02-Mazon-New Water Treatment Plant\CAD\049-TONKA VERTICAL FILTER DRAWINGS (2 OF 2).dwg Last Modified: Friday, February 6, 2026 11:09:41 AM Plotted On: Friday, February 6, 2026 3:06:28 PM by Josh Washkewick

**NOTE:
PIPING CONFIGURATION SHOWN ON
THIS SHEET IS FOR INFORMATION
ONLY**



SECTION VIEW
SCALE: 1 1/2"=1'-0"

D	<small>ALL RIGHTS TO MANUFACTURE, COPY, REPRODUCE OR DISPOSE OF THIS DRAWING OR ITS CONTENTS ARE RESERVED UNLESS OTHERWISE SPECIFIED IN WRITING BY KURITA-AMERICA INC. DO NOT SCALE DRAWING</small>		 a Kurita brand		6600 94th Avenue North Minneapolis, MN 55445 www.kuritaamerica.com	
	<small>DRAWN BY:</small> MRR <small>PROJECT MGR:</small> AMS <small>APPR. BY:</small>	<small>START DATE:</small> 07/31/2025 <small>DRAW. SCALE:</small> AS NOTED <small>APPR. DATE:</small>	VERTACELL™ PRESSURE FILTER 4'-0" DIA. PROPOSAL DRAWING MAZON, IL			<small>SHEET NUMBER:</small> 2 OF 2 <small>DRAWING NUMBER:</small> 151950

DRAWN BY: JJW	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: RTB				
DATE: 11/25				

PERU
 OTTAWA MORRIS
 ILLINOIS

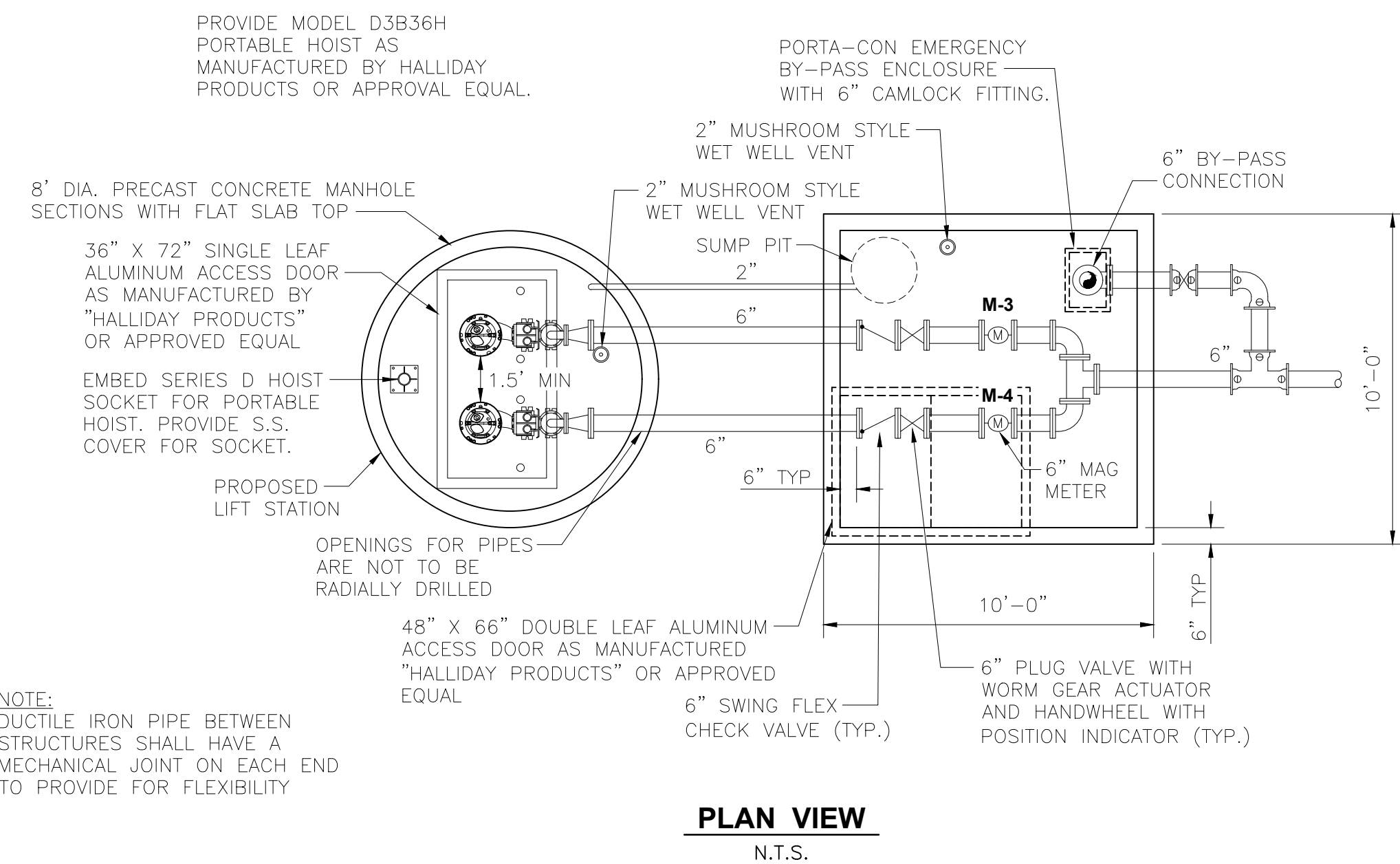
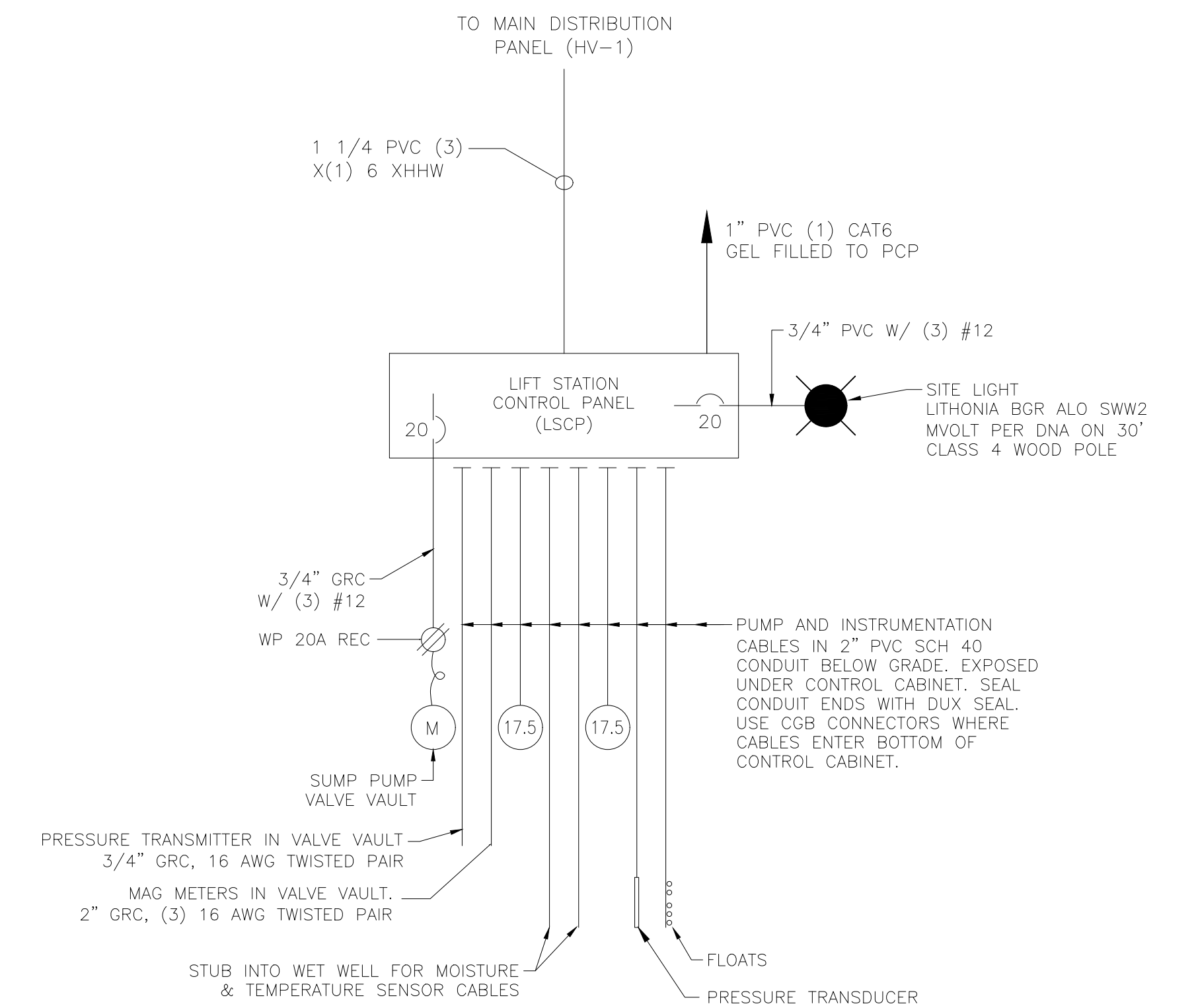
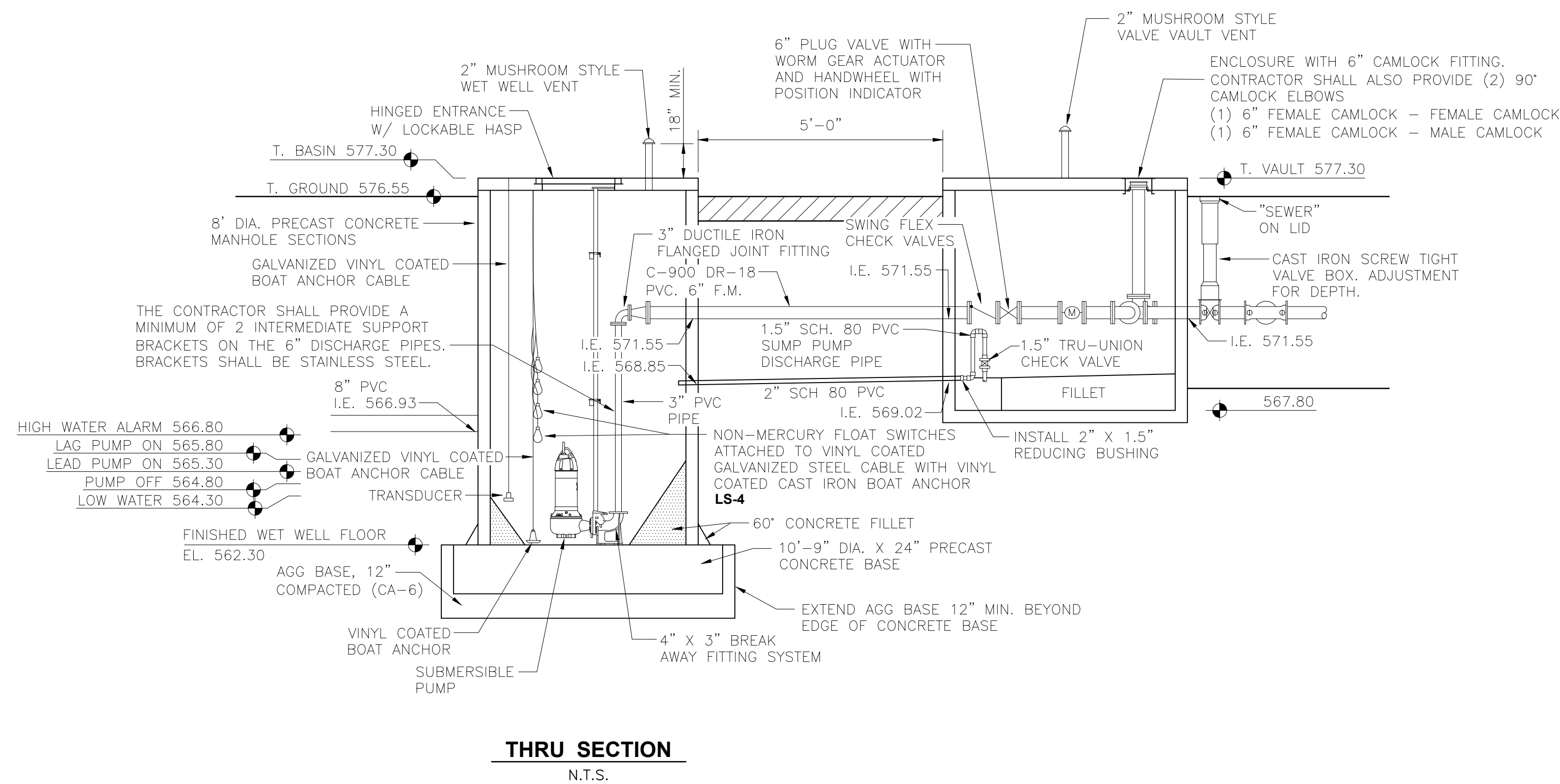
VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

TONKA PRESSURE FILTER SYSTEM
REFERENCE INFORMATION
(2 OF 2)

BIDDING PLANS

CURRENT AS OF: 02/06/2026		
SCALE: AS NOTED		SHEET 49
FILE NO.: 9936.02	Y- OF	55


CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jg\9336-02-Mazon-New Water Treatment-Plant\CAD\050-LIFT STATION-DETAILS.dwg
 Last Modified: Friday, February 6, 2026 3:03:25 PM
 Plotted On: Friday, February 6, 2026 3:03:54 PM
 by: Josh Woskowiak



PROPOSED LIFT STATION
N.T.S.

PLUG VALVES SHALL BE ECCENTRIC PLUG VALVES AS MANUFACTURED BY "VAL-MATIC" OR APPROVED EQUAL
 SWING FLEX CHECK VALVES SHALL BE AS MANUFACTURED BY "VAL-MATIC" OR APPROVED EQUAL
 BACK FILL EXCAVATED AREA AROUND LIFT STATION AND VALVE VAULT WITH COMPACTED CA-11
 LIFT STATION AND VALVE VAULT SHALL BE INSTALLED ON 12" AGG. BASE (CA-11)
 FORCE MAIN FITTINGS SHALL BE DUCTILE IRON AND CONFORM TO ANSI/AWWA C110/A21.10 OR C153/A21.53 FITTINGS ARE TO BE CONSIDERED INCIDENTAL
 INSTALL TRACER WIRES ON ALL NEW PVC PIPE
 THE HOLES FOR THE FORCE MAIN PIPES SHALL NOT BE RADIAL
 ALL PIPES SHALL BE CONNECTED TO STRUCTURES WITH RUBBER BOOTS HAVING STAINLESS STEEL CLAMPING BANDS
 AS PART OF THE WORK THE CONTRACTOR SHALL FINAL GRADE SITE TO DRAIN, PROVIDE TOPSOIL, FERTILIZE, AND SEED AREA WITH A LAWN MIX GRASS SEED. PROVIDE MULCH TO PROJECT DISTURBED AREAS.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUMPS, CONTROL PANEL, AND RELATED EQUIPMENT FROM WEATHER, CONSTRUCTION DAMAGE, AND THEFT.

DRAWN BY: JJW	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: RTB				
DATE: 01/2025				

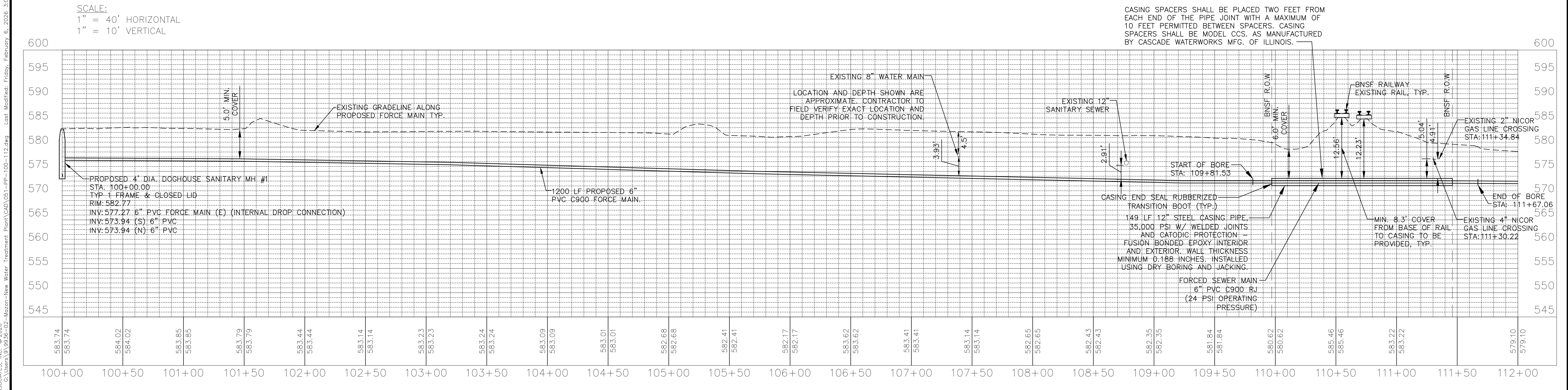
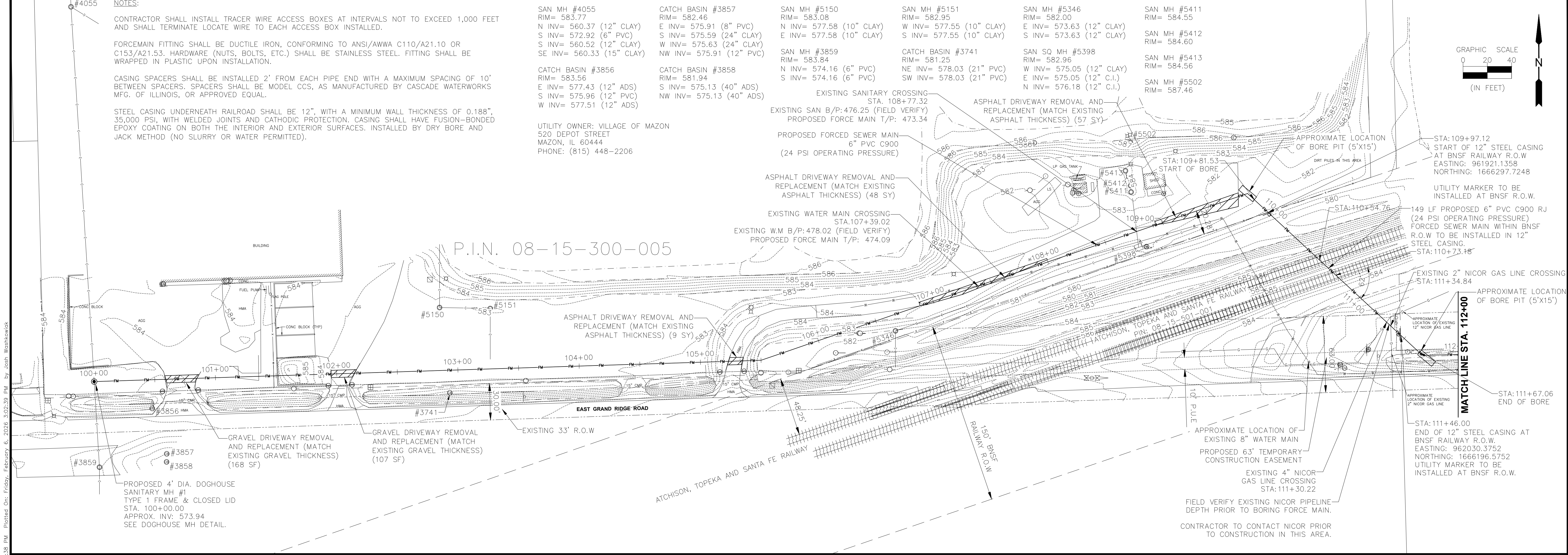

PERU
 OTTAWA MORRIS
 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

LIFT STATION AND
GENERAL DETAILS

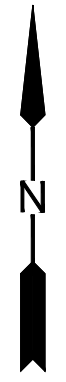
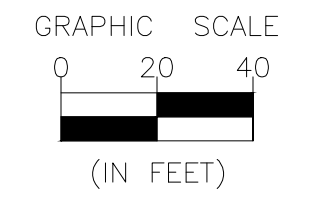
BIDDING
PLANS

CURRENT AS OF: 02/06/2026	
SCALE: AS NOTED	SHEET 50
FILE NO.: 9936.02	Y- OF 55

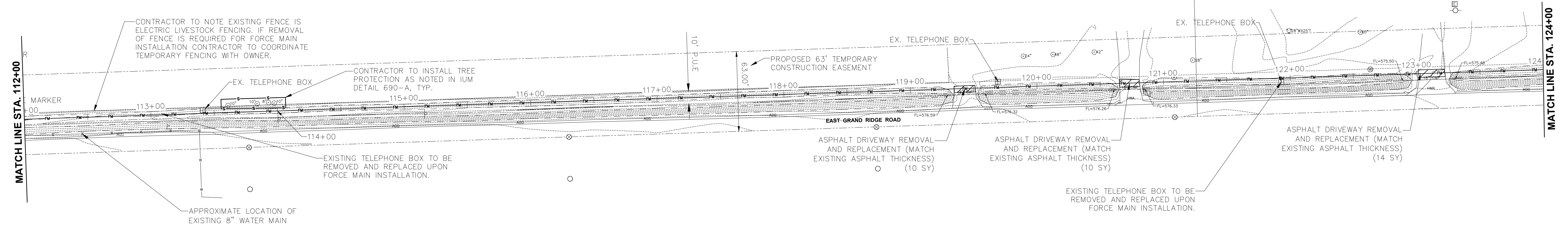


DRAWN BY: CLD CHECKED BY: TRH DATE: 06/2025	<table border="1"> <tr> <th>LEVEL</th> <th>BY</th> <th>DATE</th> <th>REVISIONS</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>CLD</td> <td>1/28/26</td> <td></td> <td>REVISED FORCE MAIN AT RAIL ROAD CROSSING</td> </tr> </table>	LEVEL	BY	DATE	REVISIONS	DESCRIPTION	1	CLD	1/28/26		REVISED FORCE MAIN AT RAIL ROAD CROSSING	<p>PERU OTTAWA MORRIS ILLINOIS</p>	<p>VILLAGE OF MAZON NEW WATER TREATMENT PLANT 2026</p>	<p>PLAN & PROFILE STA. 100+00 TO STA. 112+00</p>	<p>BIDDING PLANS</p>	CURRENT AS OF: 02/06/2026 SCALE: AS NOTED FILE NO.: 9936.02 Y- OF 55
LEVEL	BY	DATE	REVISIONS	DESCRIPTION												
1	CLD	1/28/26		REVISED FORCE MAIN AT RAIL ROAD CROSSING												

CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\VA9836-02\Mazon-New Water Treatment Plant\CAD\051-PP-100-112.dwg
 Last Modified: Friday, February 6, 2026 3:02:39 PM
 Plotted On: Friday, February 6, 2026 3:01:38 PM
 by: Josh Wankiewicz



P.I.N. 08-15-300-008

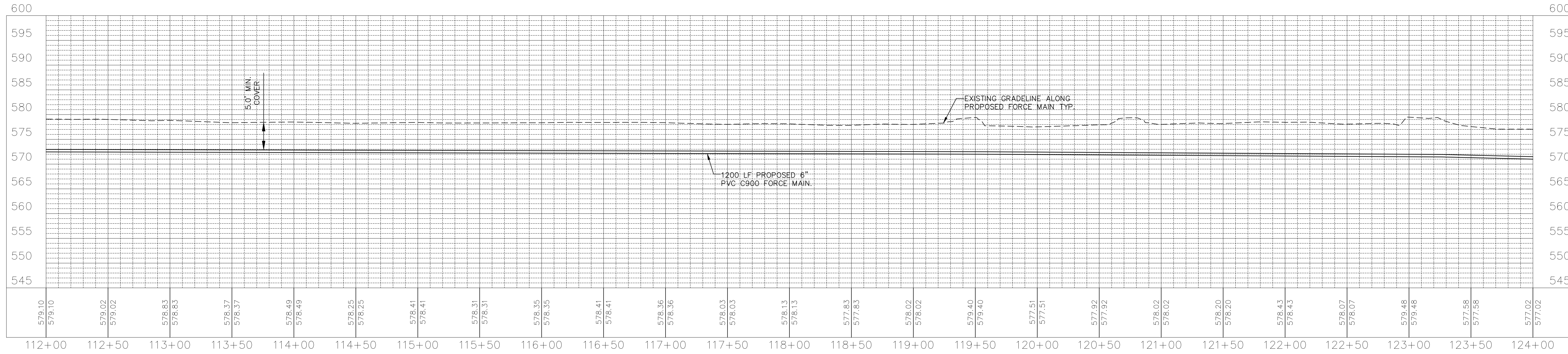


NOTES:

CONTRACTOR SHALL INSTALL TRACER WIRE ACCESS BOXES AT INTERVALS NOT TO EXCEED 1,000 FEET AND SHALL TERMINATE LOCATE WIRE TO EACH ACCESS BOX INSTALLED.

FORCEMAIN FITTING SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR C153/A21.53. HARDWARE (NUTS, BOLTS, ETC.) SHALL BE STAINLESS STEEL. FITTING SHALL BE WRAPPED IN PLASTIC UPON INSTALLATION.

SCALE:
 1" = 40' HORIZONTAL
 1" = 10' VERTICAL



CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jg936-02-Macrom-New Water Treatment-Print\CAD\052-PP-112-124.dwg
 Last Modified: Friday, February 6, 2026 11:35:50 AM
 Plotted On: Friday, February 6, 2026 3:01:05 PM
 by: Josh Washlowick

DRAWN BY: CLD	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: TRH	1	CLD	1/28/26	REVISED	FORCE MAIN AT RAIL ROAD CROSSING
DATE: 06/2025					

CA
 Chamlin & Associates

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 ILLINOIS

**VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026**

**PLAN & PROFILE
 STA. 112+00 TO STA. 124+00**

**BIDDING
 PLANS**

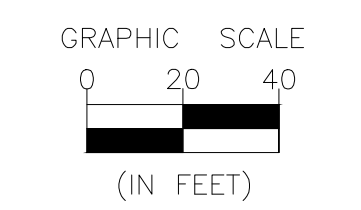
CURRENT AS OF: 02/06/2026

SCALE: AS NOTED

FILE NO.: 9936.02 Y- OF 55

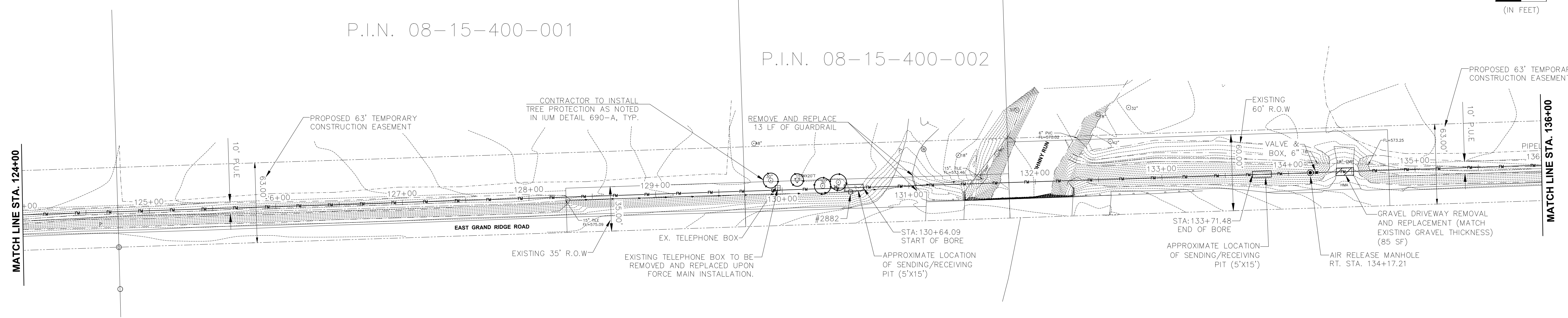
SHEET 52

P.I.N. 08-15-400-001



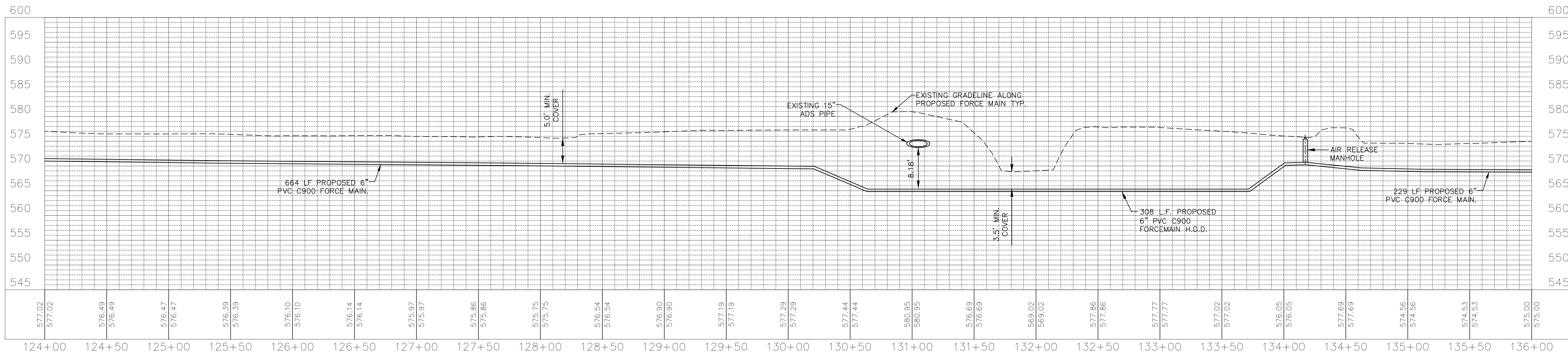
P.I.N. 08-15-400-001

P.I.N. 08-15-400-002



NOTES:
 CONTRACTOR SHALL INSTALL TRACER WIRE ACCESS BOXES AT INTERVALS NOT TO EXCEED 1,000 FEET AND SHALL TERMINATE LOCATE WIRE TO EACH ACCESS BOX INSTALLED.
 FORCEMAIN FITTING SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR C153/A21.53. HARDWARE (NUTS, BOLTS, ETC.) SHALL BE STAINLESS STEEL. FITTING SHALL BE WRAPPED IN PLASTIC UPON INSTALLATION.

SCALE:
 1" = 40' HORIZONTAL
 1" = 10' VERTICAL



CHAMLIN & ASSOCIATES, INC. © 2026
 Drawing Name: G:\Users\jg936-02\Mazcom-New Water Treatment Plant\CAD\053-PP-124-136.dwg
 Last Modified: Friday, February 6, 2026 11:14:03 AM
 Plotted On: Friday, February 6, 2026 2:58:27 PM
 by: Josh Washkovich

DRAWN BY: CLD	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: TRH	1	CLD	1/28/26	REVISED FORCE MAIN AT RAIL ROAD CROSSING	
DATE: 06/2025					


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 ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

PLAN & PROFILE
STA. 124+00 TO STA. 136+00

BIDDING PLANS

CURRENT AS OF: 02/06/2026	SHEET 53
SCALE: AS NOTED	OF 55
FILE NO.: 9936.02	

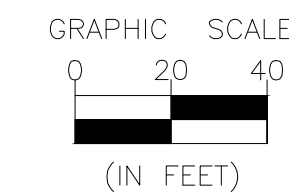
NOTES:

CONTRACTOR SHALL INSTALL TRACER WIRE ACCESS BOXES AT INTERVALS NOT TO EXCEED 1,000 FEET AND SHALL TERMINATE LOCATE WIRE TO EACH ACCESS BOX INSTALLED.

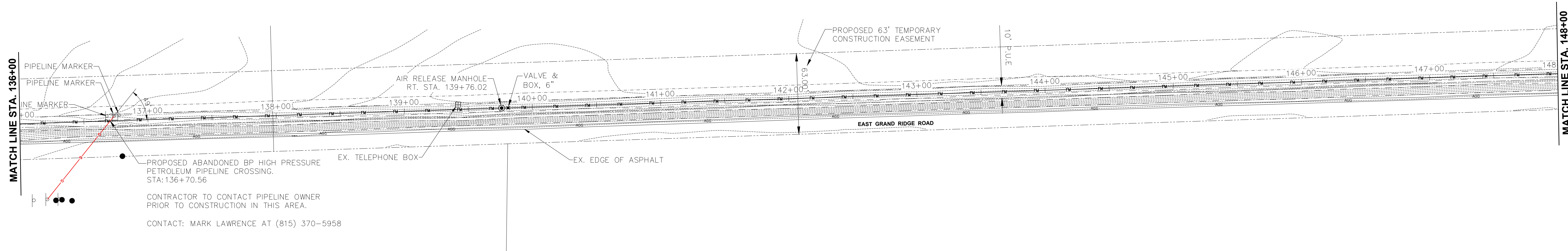
FORCEMAIN FITTING SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR C153/A21.53. HARDWARE (NUTS, BOLTS, ETC.) SHALL BE STAINLESS STEEL. FITTING SHALL BE WRAPPED IN PLASTIC UPON INSTALLATION.

DISTURBED AREAS TO BE RESTORED TO EXISTING GRADE.

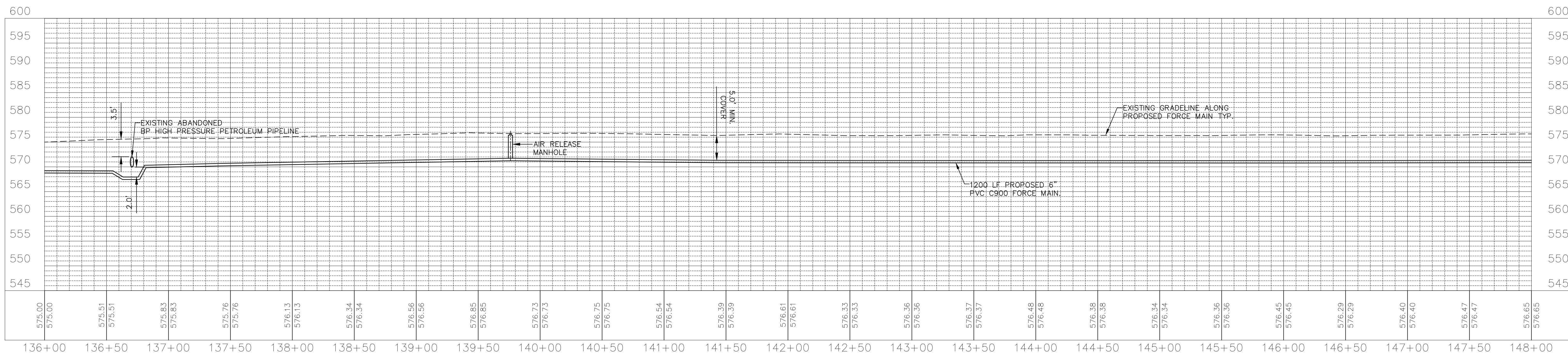
NO STOCKPILES ARE TO BE STORED ON OR NEAR BP PIPELINE.



P.I.N. 08-15-400-005



SCALE:
1" = 40' HORIZONTAL
1" = 10' VERTICAL



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Drawing Name: G:\Users\GJ\OneDrive - Chamlin & Associates, Inc.\Desktop\2026\11-14-2025\136-148.dwg
Last Modified: Friday, February 6, 2026 11:14:20 AM
Plotted On: Friday, February 6, 2026 2:57:25 PM
by: Josh Washlowick

DRAWN BY: CLD	REVISIONS
CHECKED BY: TRH	LEVEL 1
DATE: 06/2025	BY: CLD
	DATE: 1/28/26
	DESCRIPTION: REVISED FORCE MAIN AT RAIL ROAD CROSSING

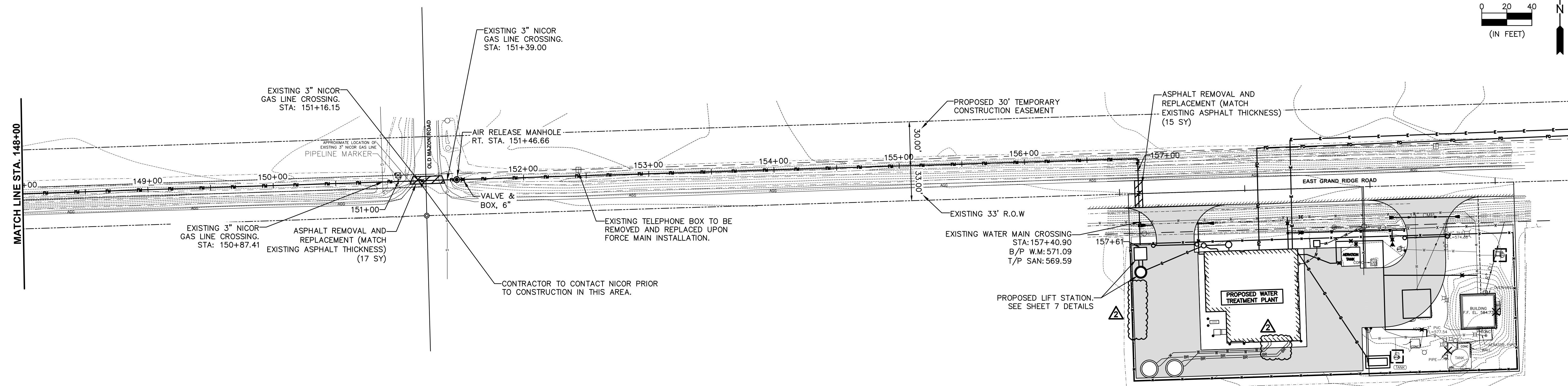
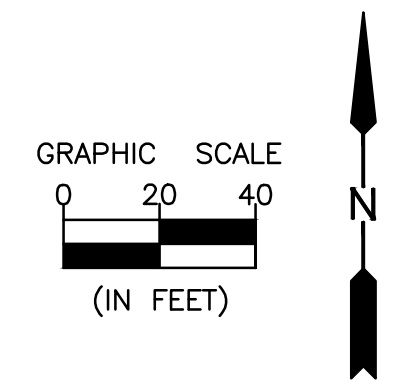
PERU
OTTAWA MORRIS
ILLINOIS

VILLAGE OF MAZON
NEW WATER TREATMENT PLANT
2026

PLAN & PROFILE
STA. 136+00 TO STA. 148+00

BIDDING PLANS

CURRENT AS OF: 02/06/2026	SHEET 54
SCALE: AS NOTED	OF 55
FILE NO.: 9936.02	Y- OF

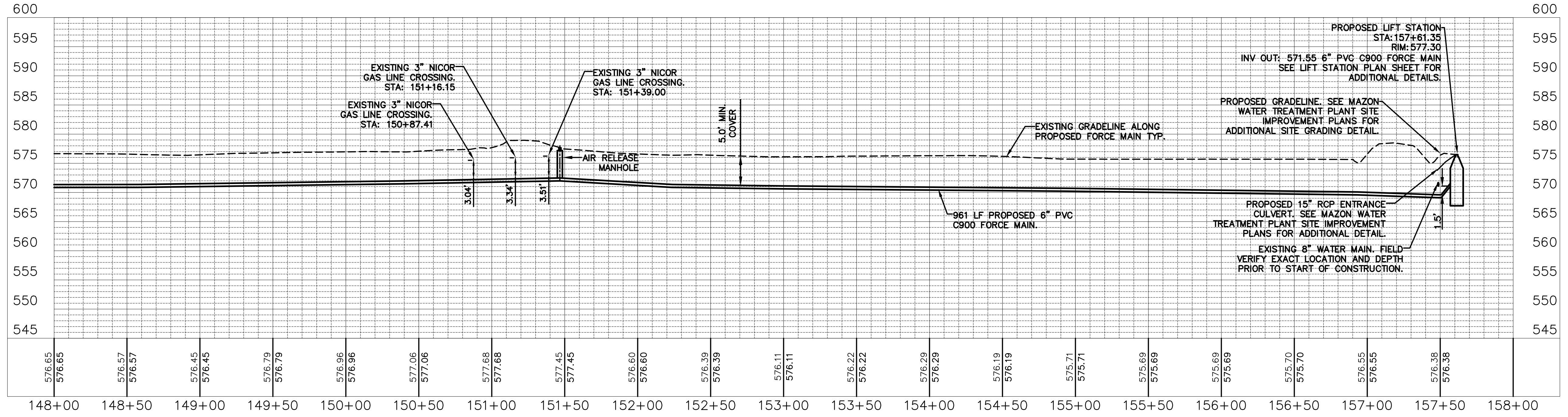


NOTES:

CONTRACTOR SHALL INSTALL TRACER WIRE ACCESS BOXES AT INTERVALS NOT TO EXCEED 1,000 FEET AND SHALL TERMINATE LOCATE WIRE TO EACH ACCESS BOX INSTALLED.

FORCEMAIN FITTING SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR C153/A21.53. HARDWARE (NUTS, BOLTS, ETC.) SHALL BE STAINLESS STEEL. FITTING SHALL BE WRAPPED IN PLASTIC UPON INSTALLATION.

SCALE:
 1" = 40' HORIZONTAL
 1" = 10' VERTICAL



CHAMLIN & ASSOCIATES, INC. © 2025
 Drawing Name: G:\Users\G\9336-02-Mazon-New Water Treatment Plant\CAD\055-PP-148-158.dwg
 Last Modified: Thursday, February 26, 2026 4:45:07 PM
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 by: Josh Westkowiak

DRAWN BY: CLD	REVISIONS	
CHECKED BY: TRH	LEVEL	DESCRIPTION
DATE: 06/2025	1	REVISED FORCE MAIN AT RAIL ROAD CROSSING
	2	ADDENDUM No. 2

PERU
 OTTAWA MORRIS
 ILLINOIS

**VILLAGE OF MAZON
 NEW WATER TREATMENT PLANT
 2026**

**PLAN & PROFILE
 STA. 148+00 TO STA. 158+00**

BIDDING PLANS

CURRENT AS OF: 02/26/2026

SCALE: AS NOTED

FILE NO.: 9936.02 Y- OF 55