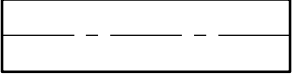
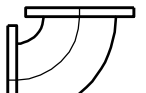
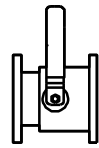
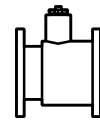
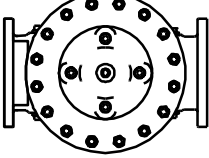
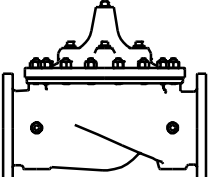
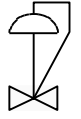
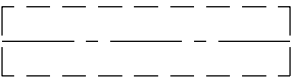
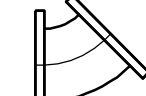
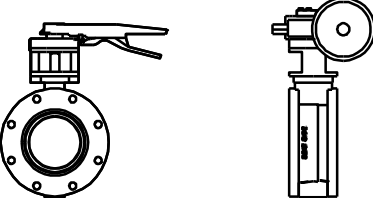
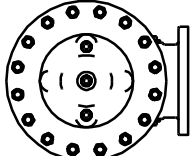
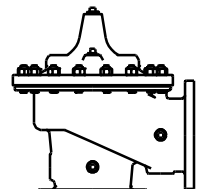
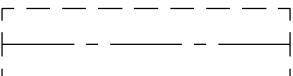
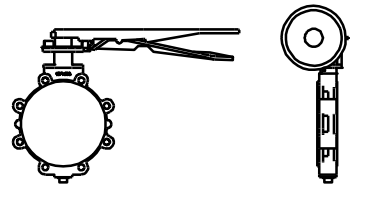
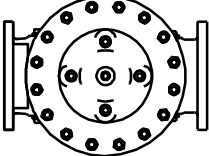
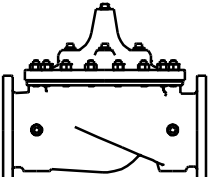
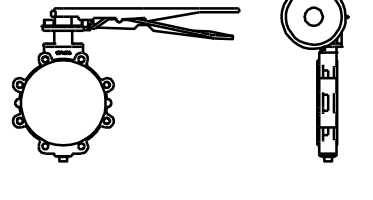
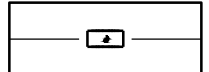
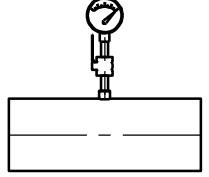
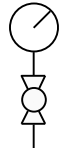
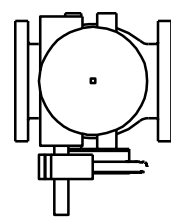
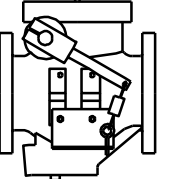
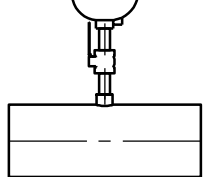
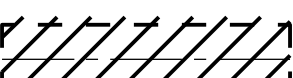
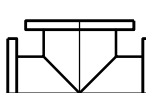
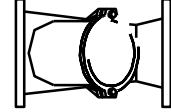
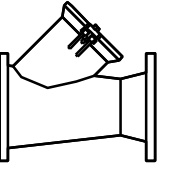
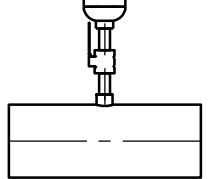
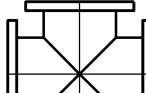
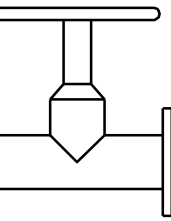
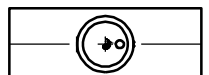
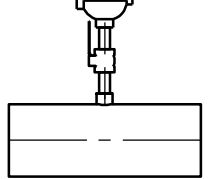
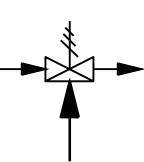
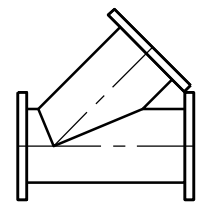
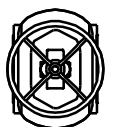
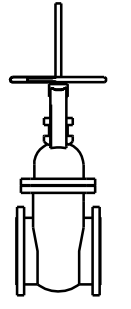
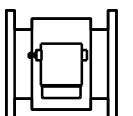
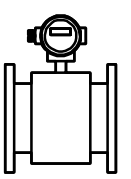
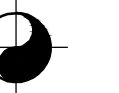
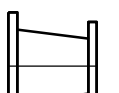
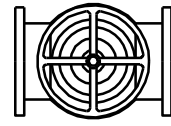
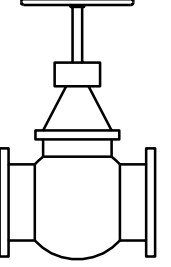
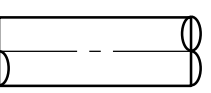
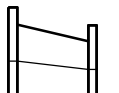
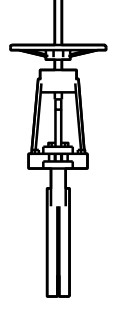
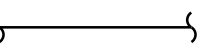
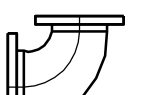
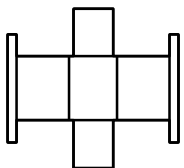
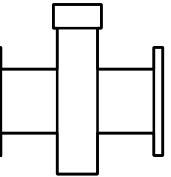
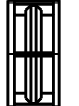
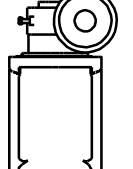
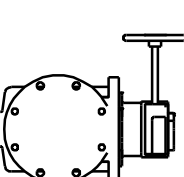
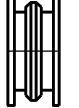
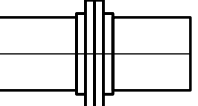
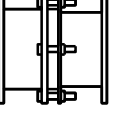
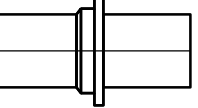
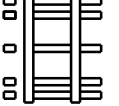
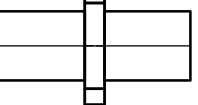
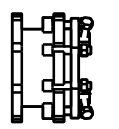
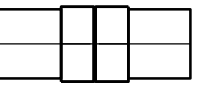
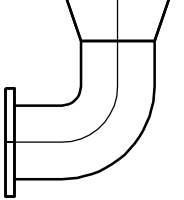
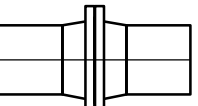
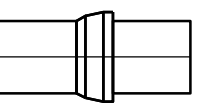
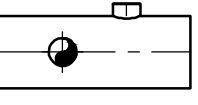
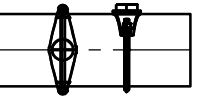


\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-001 PROCESS LEGEND AND SYMBOLS.dwg M-001 7/29/2026 10:55 AM JUSTIN.DEUEL 24.3s (LMS Tech)

PIPE SYMBOLS		PIPE FITTINGS		VALVE SYMBOLS				VALVE SYMBOLS			
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	PLAN	SECTION	SINGLE LINE	DESCRIPTION	PLAN	SECTION	SINGLE LINE
PROPOSED		90° ELBOW		BALL VALVE				PRESSURE REDUCING VALVE (STRAIGHT)			
HIDDEN		45° ELBOW		BUTTERFLY VALVE				PRESSURE REDUCING VALVE (ANGLED)			
BELOW GRADE		22.5° ELBOW		BUTTERFLY VALVE (WAFER / LUGGED)				BACK PRESSURE REGULATOR VALVE (STRAIGHT)			
EXISTING		11.25° ELBOW		BUTTERFLY VALVE (WAFER / LUGGED)				PRESSURE GAUGE			
EXISTING HIDDEN		BASE ELBOW		CHECK VALVE (SWING)				AIR VALVE (COMBINATION)			
DEMOLISH		TEE		CHECK VALVE (BALL)				AIR VALVE (AIR RELEASE)			
FUTURE		CROSS		DIAPHRAGM VALVE				AIR VALVE (AIR/VACUUM)			
CENTERLINE		LATERAL		GATE VALVE				FLOW METER			
PIPE CUT		REDUCER (CONCENTRIC)		GLOBE VALVE							
PIPE BREAK		REDUCER (ECCENTRIC)		KNIFE GATE VALVE							
PIPE BREAK (SINGLE LINE)		REDUCING 90° ELBOW		PINCH VALVE							
PIPE JOINTS		EXPANSION JOINT (RESTRAINED)		PLUG VALVE							
DESCRIPTION	SYMBOL	EXPANSION JOINT (UNRESTRAINED)									
FLANGED		DISMANTLING JOINT									
MECHANICAL JOINT		FLANGE COUPLING ADAPTER (FCA)									
GROOVED		RESTRAINED FLANGE COUPLING ADAPTER (RFCA)									
PVC		FLANGED x FLARED									
STEEL											
PUSH-ON											
TAP											
SERVICE SADDLE											

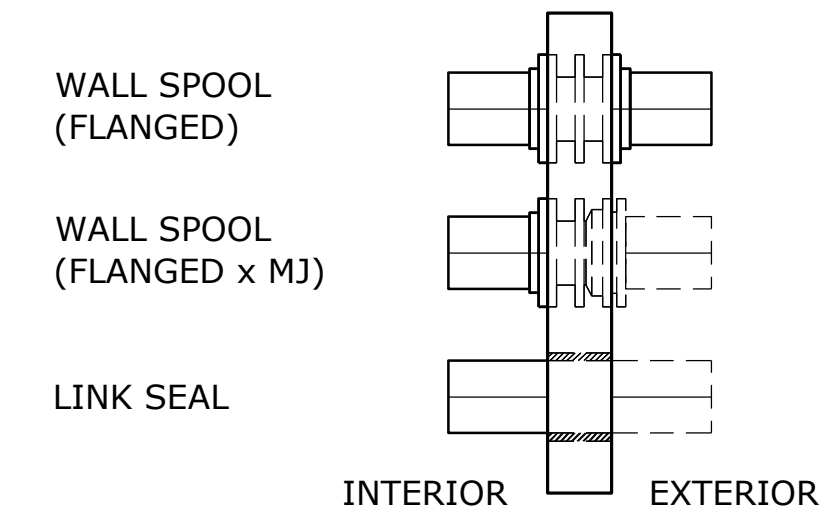
GENERAL NOTES:

1. THIS IS A STANDARD PROCESS LEGEND, NOT ALL OF THE INFORMATION MAY BE USED ON THIS PROJECT.
2. ONLY FLANGED END CONNECTIONS ARE SHOWN HERE. OTHER FITTING PATTERNS ARE SHOWN SIMILARLY ON THE CONSTRUCTION DRAWINGS. ALSO SEE PIPING SPECIFICATIONS.

GENERIC PIPING NOTES:

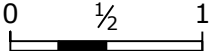
1. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
2. SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
3. LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS AS SPECIFIED.
4. ALL JOINTS SHALL BE WATERTIGHT. WALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO A BACKFILL.
5. ALL FLEXIBLE CONNECTORS AND COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
6. SYMBOLS, LEGENDS AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS COMPONENTS ARE NECESSARILY USED IN THE PROJECT.
7. ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED OR SCREWED PIPING, SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED.
8. NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
9. WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.

PIPE PENETRATIONS



NO.	DATE	BY	REVISION

NOTICE



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
106439PE
Oregon
March 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

 **consor**

 **Stantec**

 **South Fork WATER**
PURE WATER SINCE 1915

WATER QUALITY SYSTEMS BUILDING

MECHANICAL

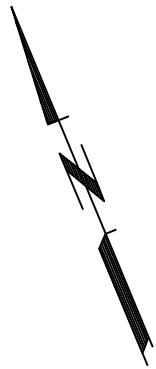
PROCESS LEGEND AND SYMBOLS

PROJECT NO.: W253326OR | SCALE: AS SHOWN | DATE: AUGUST 2026

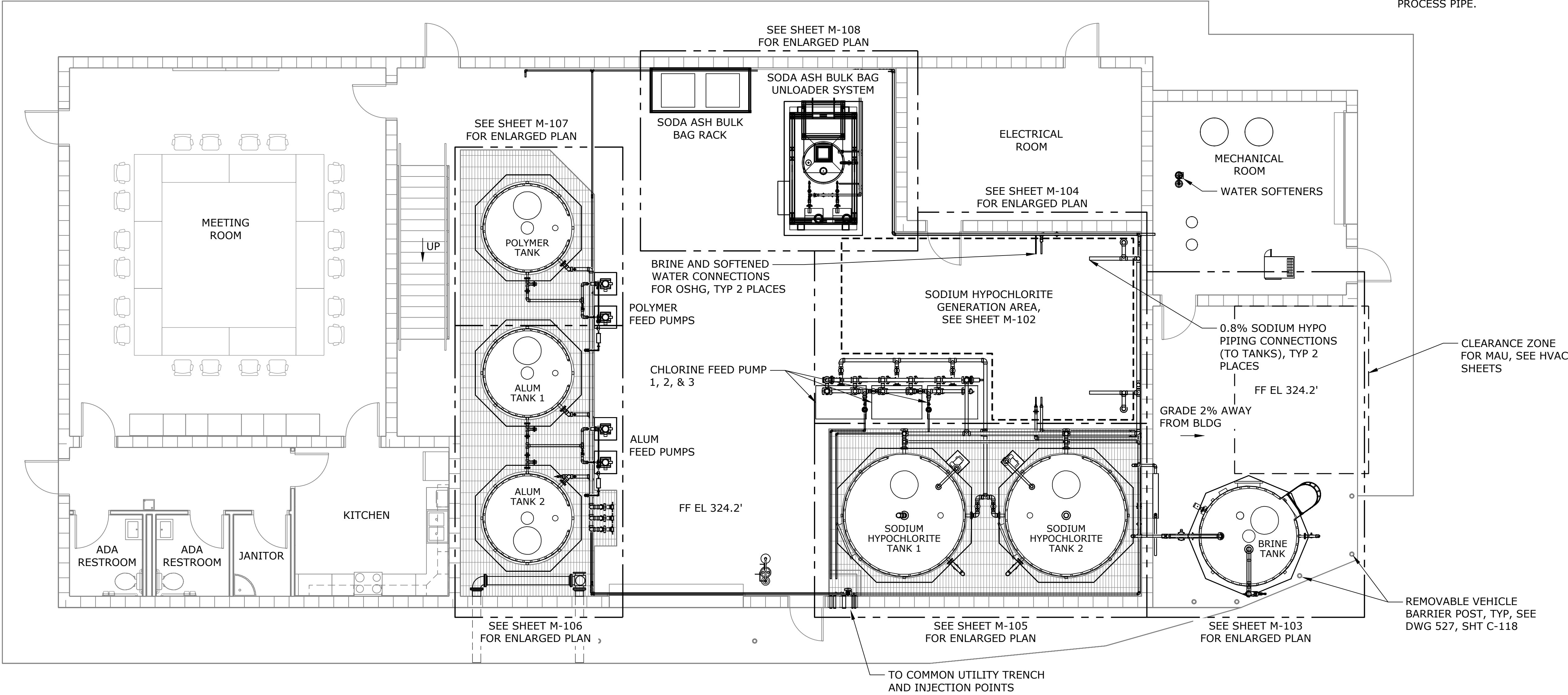
SHEET

M-001

\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-101 7/29/2026 10:56 AM JUSTIN.DEUEL 24.3s (LMS Tech)



- NOTE:
1. BASIS OF DESIGN FOR SODIUM HYPOCHLORITE GENERATION AREA IS TWO 900 PPD ONSITE GENERATION UNITS. EXACT EQUIPMENT AND EQUIPMENT DIMENSIONS TO BE DETERMINED AFTER SELECTION OF ONSITE GENERATION UNIT MANUFACTURER AT PROJECT BID. CONTRACTOR SHALL ADJUST PLAN LAYOUT AS NECESSARY TO ACCOMMODATE SPECIFIC EQUIPMENT NEEDS, SEE SPECIFICATIONS AND ALTERNATIVES ON SHEET M-102.
 2. REFER TO SHEET G-007 PIPE SCHEDULE FOR PROCESS PIPE.



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

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL ENGINEER
105439PE
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

 **consor**
 **Stantec**

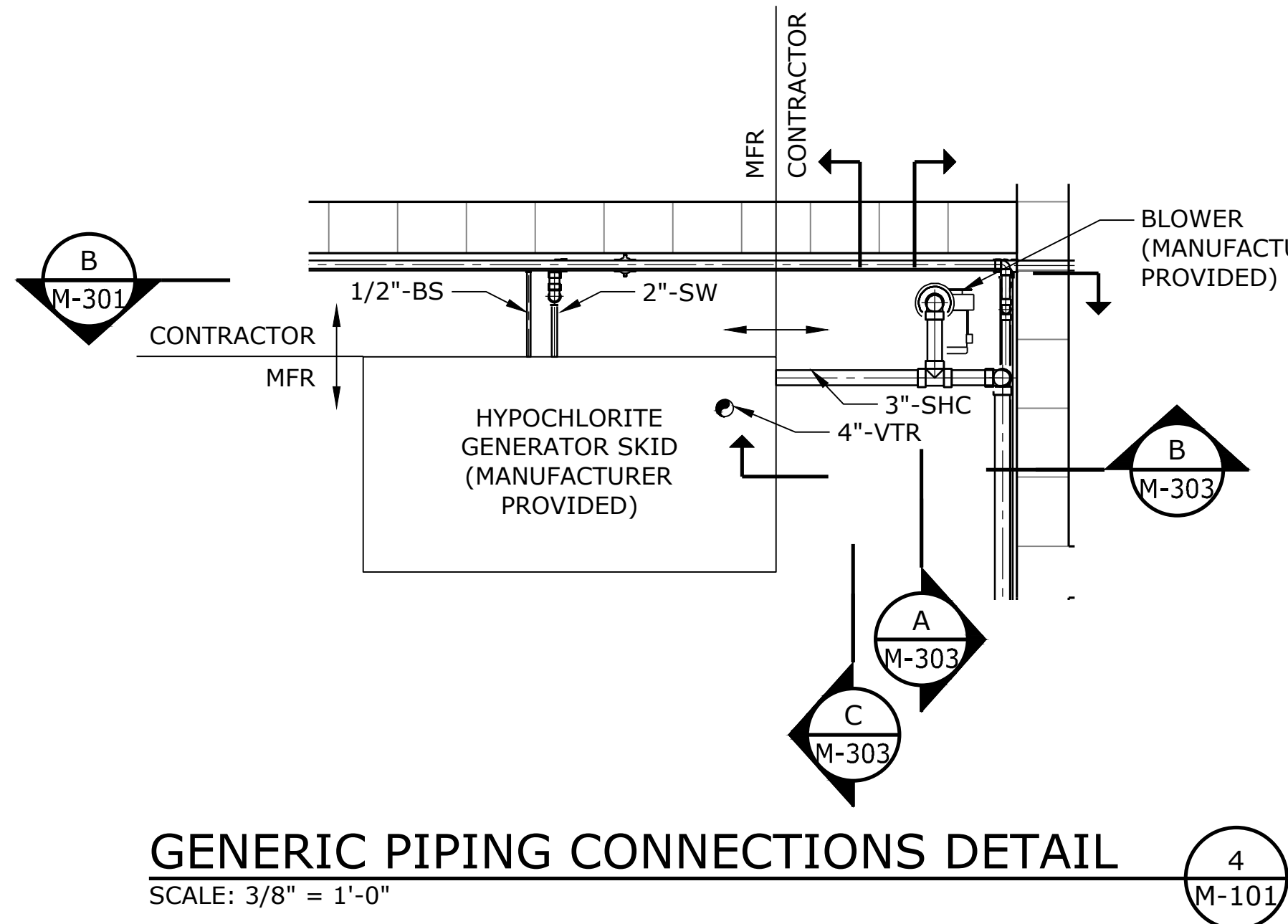
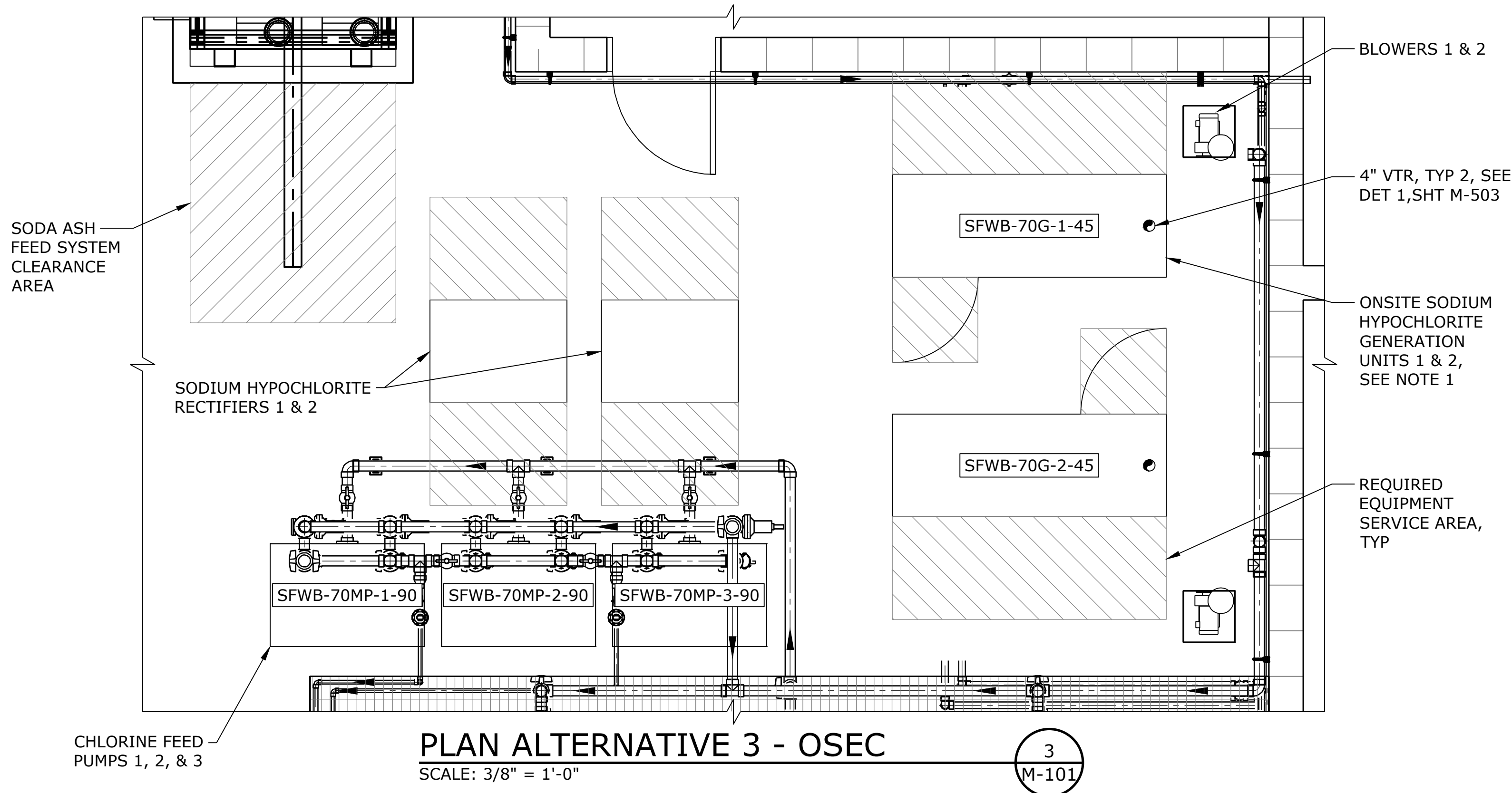
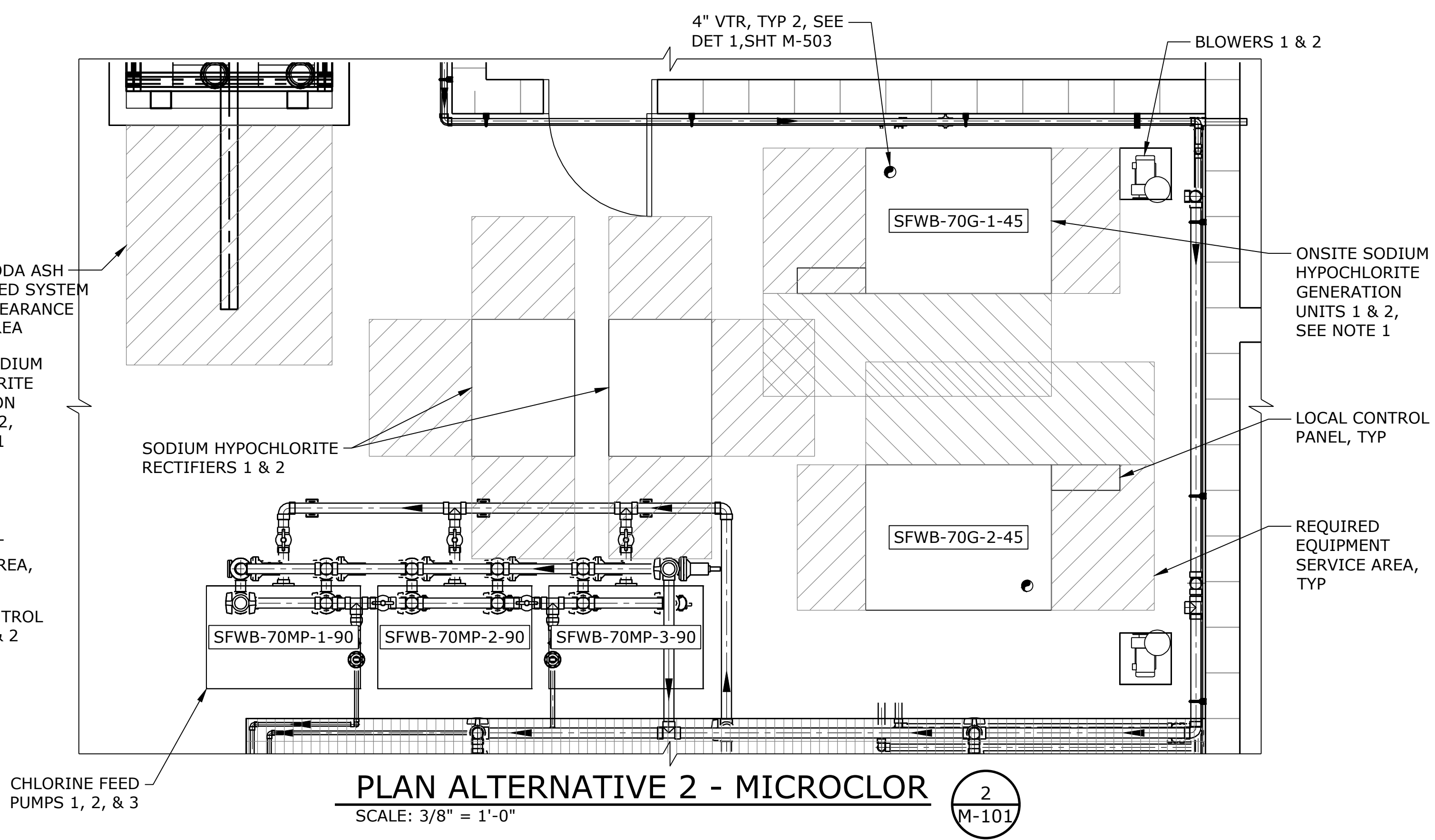
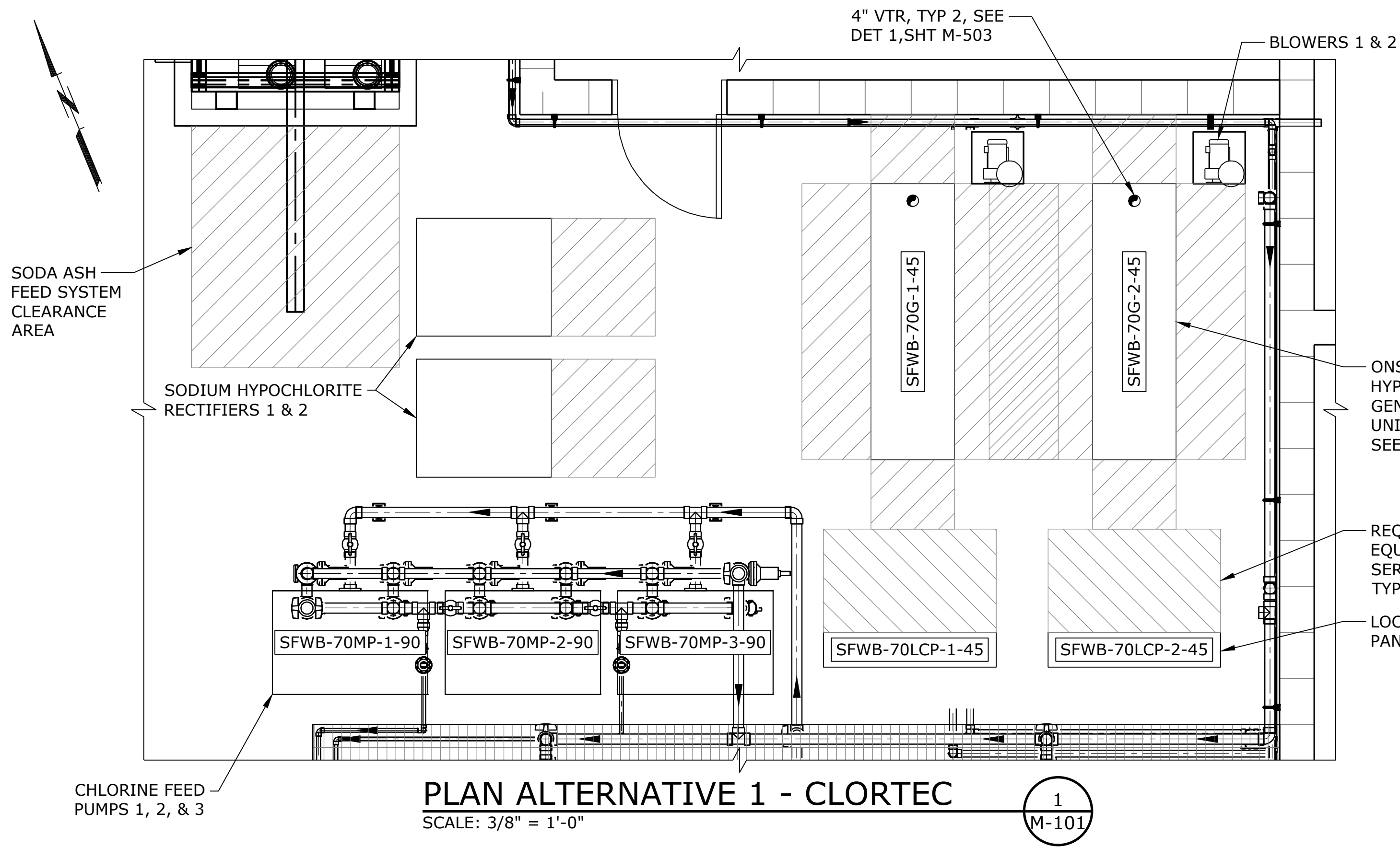
 **South Fork WATER**
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
WATER QUALITY SYSTEMS BUILDING
LOWER LEVEL PLAN

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-101

\\EgnyteDrive\Portland\pdx_projects\21\3045 - South Fork Water Board - Chemical Feed Building Design\CAD\Sheets\M-102 CHEMICAL BUILDING UPPER LEVEL PLAN.dwg M-102 7/29/2026 10:57 AM JUSTIN.DEUEL 24.3s (LWS Tech)



- NOTES:
1. CONTRACTOR SHALL SUPPLY ALL REQUIRED PROCESS PIPING UP TO CONNECTION POINTS AT MANUFACTURER PROVIDED ONSITE GENERATION SKIDS, INCLUDING BRINE SOLUTION, SOFTENED WATER, SODIUM HYPOCHLORITE SOLUTION, AND BLOWER AND VENT PIPING, AND ALL ELECTRICAL CONNECTIONS. LOCATIONS OF PIPING CONNECTIONS WILL VARY BY ONSITE GENERATION MANUFACTURER.
 2. CONTROL PANEL, BLOWER, AND WATER SOFTENER LOCATION WILL VARY BASED ON SELECTED ONSITE GENERATION MANUFACTURER.
 3. ONSITE GENERATORS, BLOWERS, AND RECTIFIERS SHALL BE PLACED ON CONCRETE EQUIPMENT PADS. CONCRETE PAD DIMENSIONS WILL VARY BASED ON SELECTED ONSITE MANUFACTURER. SEE STRUCTURAL SHEETS FOR EQUIPMENT PAD DETAILS.
 4. HYDROGEN DETECTION SENSORS NOT SHOWN, PROVIDED BY MANUFACTURER. CONTRACTOR SHALL MOUNT IN LOCATION ACCESSIBLE BY FORKLIFT AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

NO.	DATE	BY	REVISION

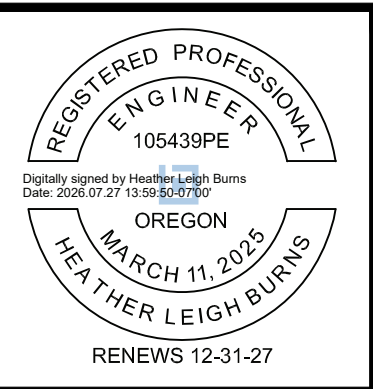
NOTICE

01/2

1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB DESIGNED
JLC DRAWN
HLB CHECKED



BID SET



MECHANICAL

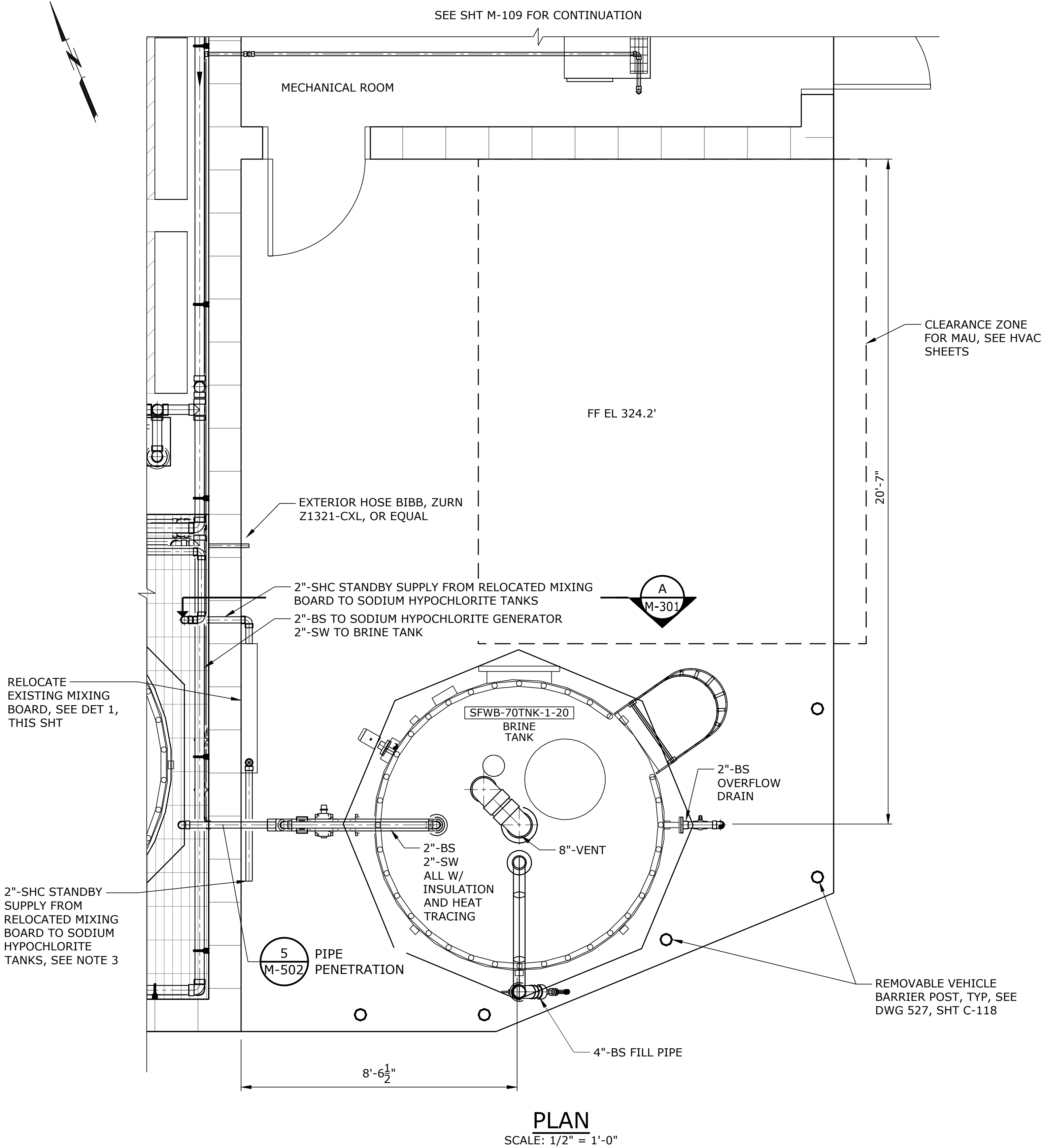
SODIUM HYPOCHLORITE PLAN ALTERNATIVES

PROJECT NO.: W2533260RSCALE: AS SHOWNDATE: AUGUST 2026

SHEET

M-102

\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-103 TREATMENT BUILDING SODIUM HYPOCHLORITE PLAN 1 Of 3.dwg M-103 7/29/2026 10:57 AM JUSTIN.DEUEL 24.3s (LMS Tech)



BULK HYPO MIXING BOARD

SCALE: NTS

1
-

- NOTES:**
1. MOUNT MIXING BOARD TO UNISTRUT FRAME (OR EQUAL) ANCHORED TO CMU WALL MOUNT ROTAMETER APPROX. 4'-0" AFF.
 2. SEE TANK NOZZLE SCHEDULE SHEET M-504.
 3. INSTALL BULK HYPO MIXING BOARD AND PIPE SUPPORTS SUCH THAT SUCTION PIPING IS ACCESSIBLE FROM CONNECTION TO FUTURE CHEMICAL TOTES FOR THE SOUTHEAST SIDE OF THE 2 INCH BRINE SOLUTION TO HYPO GENERATOR LINE.

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

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HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:00Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

 **consor**

 **Stantec**

 **South Fork WATER**
PURE WATER SINCE 1915

WATER QUALITY SYSTEMS BUILDING

MECHANICAL

SODIUM HYPOCHLORITE PLAN 1 OF 3

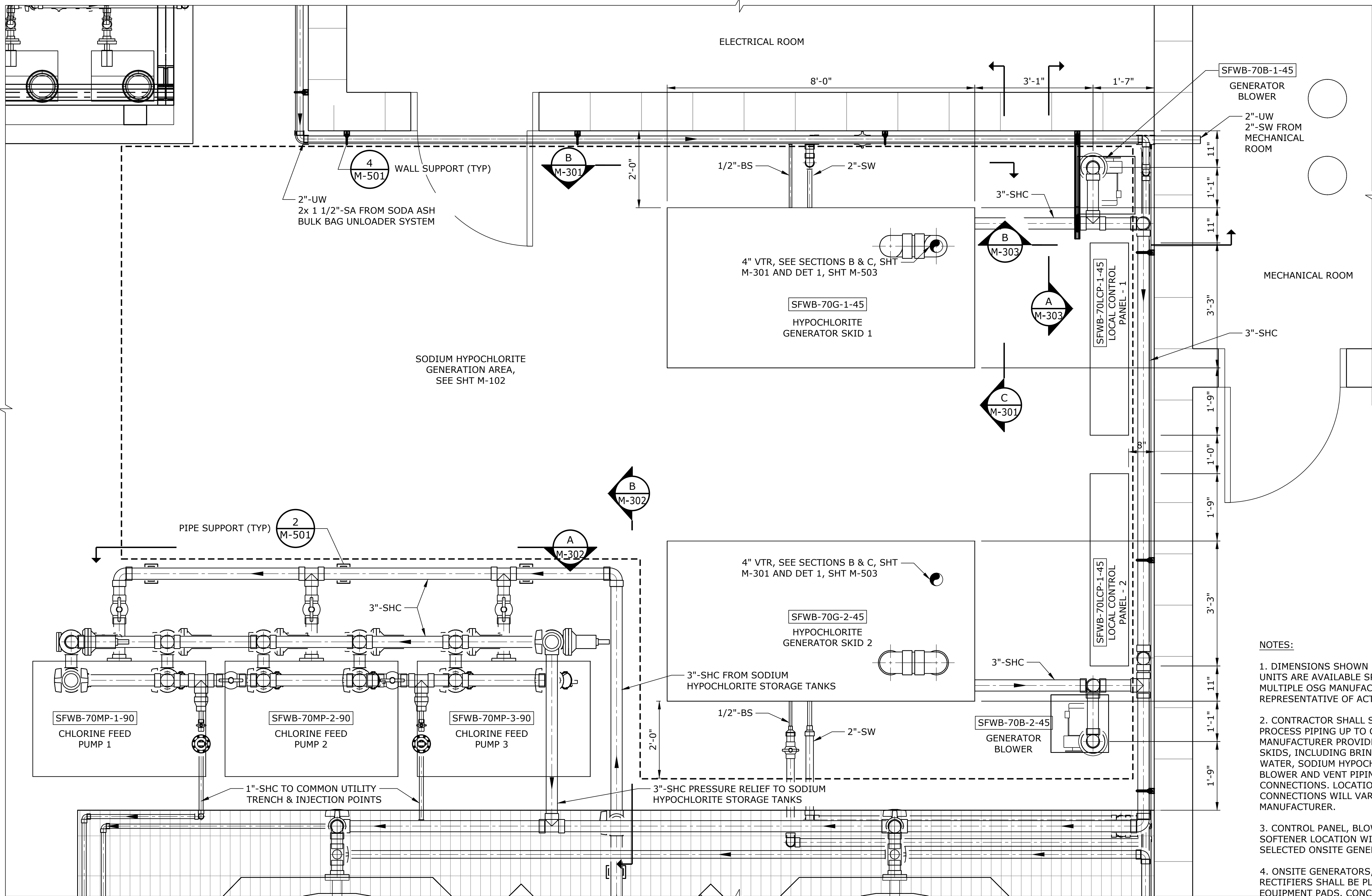
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET

M-103

\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-104 TREATMENT BUILDING SODIUM HYPOCHLORITE PLAN 2 Of 3.dwg M-104 7/29/2026 10:57 AM JUSTIN.DEUEL 24.3s (LMS Tech)

SEE SHT M-108 FOR CONTINUATION



- NOTES:
- DIMENSIONS SHOWN FOR ONSITE GENERATION UNITS ARE AVAILABLE SPACE REQUIRED FOR MULTIPLE OSG MANUFACTURERS, NOT REPRESENTATIVE OF ACTUAL SKID DIMENSIONS.
 - CONTRACTOR SHALL SUPPLY ALL REQUIRED PROCESS PIPING UP TO CONNECTION POINTS AT MANUFACTURER PROVIDED ONSITE GENERATION SKIDS, INCLUDING BRINE SOLUTION, SOFTENED WATER, SODIUM HYPOCHLORITE SOLUTION, AND BLOWER AND VENT PIPING, AND ALL ELECTRICAL CONNECTIONS. LOCATIONS OF PIPING CONNECTIONS WILL VARY BY ONSITE GENERATION MANUFACTURER.
 - CONTROL PANEL, BLOWER, AND WATER SOFTENER LOCATION WILL VARY BASED ON SELECTED ONSITE GENERATION MANUFACTURER.
 - ONSITE GENERATORS, BLOWERS, AND RECTIFIERS SHALL BE PLACED ON CONCRETE EQUIPMENT PADS. CONCRETE PAD DIMENSIONS WILL VARY BASED ON SELECTED ONSITE MANUFACTURER. SEE STRUCTURAL SHEETS FOR EQUIPMENT PAD DETAILS.

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

SEE SHT M-105 FOR CONTINUATION

NO.	DATE	BY	REVISION

NOTICE

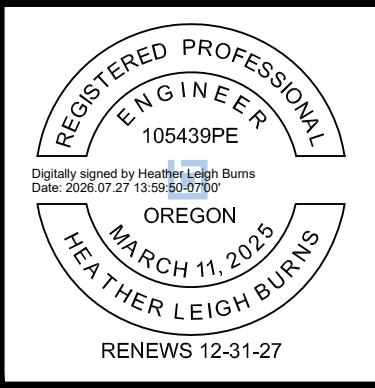
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1/2

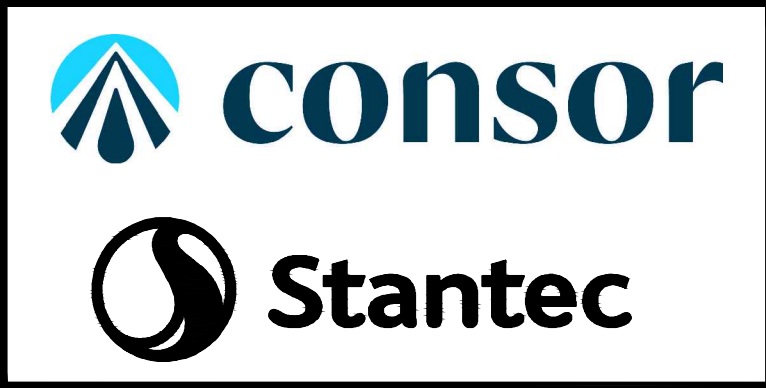
1

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JLC DRAWN
HLB CHECKED

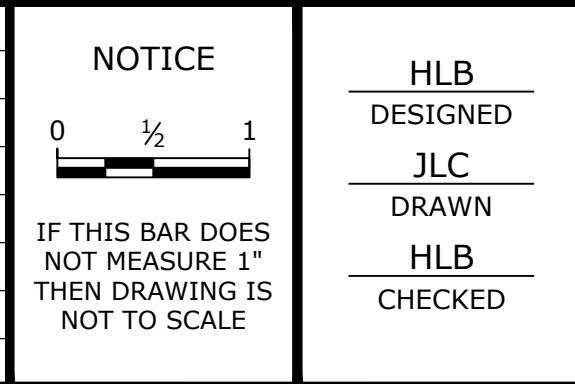


BID SET



MECHANICAL			
SODIUM HYPOCHLORITE PLAN 2 OF 3			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

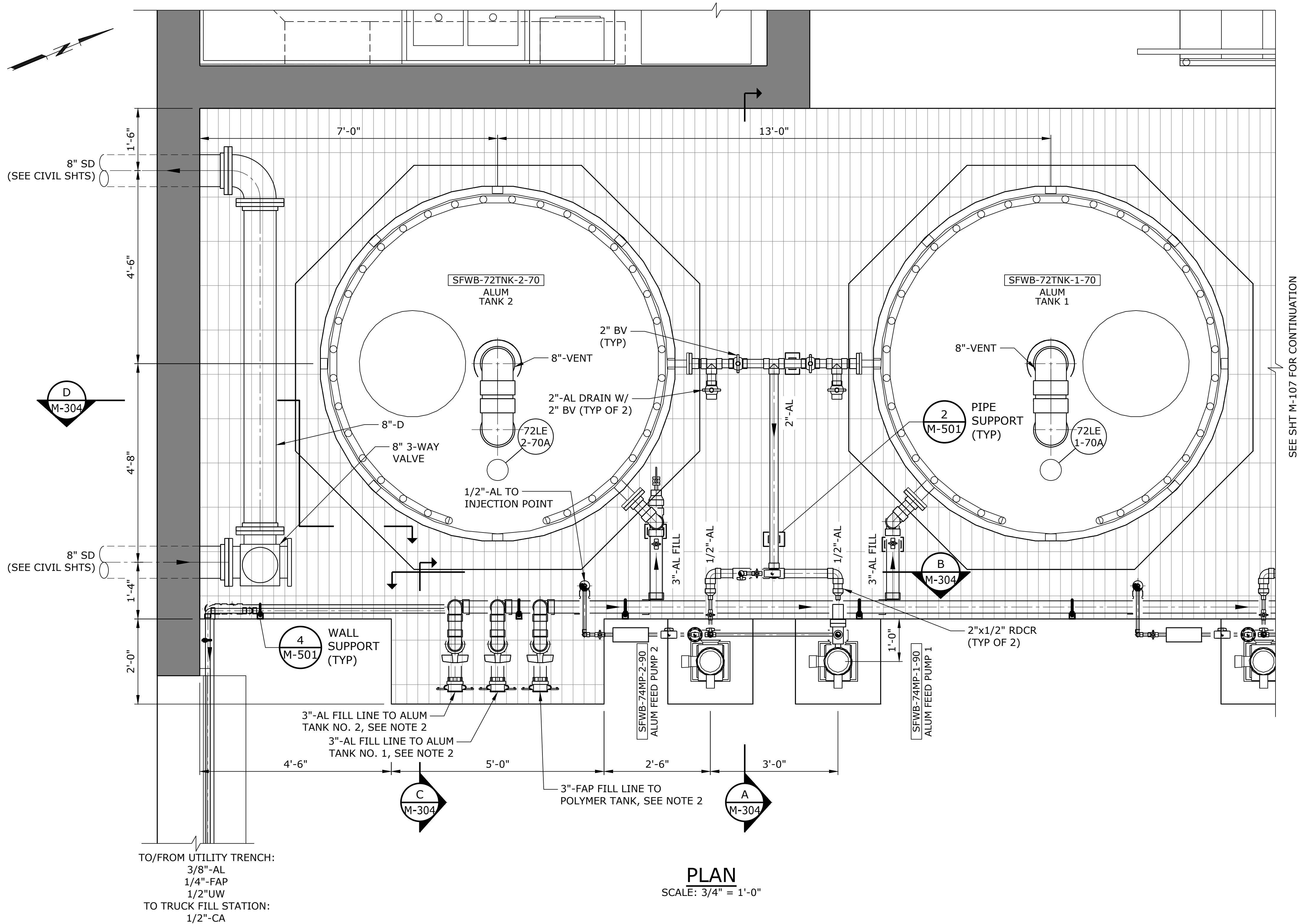
SHEET
M-104



MECHANICAL

SODIUM HYPOCHLORITE PLAN 3 OF 3

\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-106 TREATMENT BUILDING ALUM SYSTEM PLAN.dwg M-106 7/29/2026 10:58 AM JUSTIN.DEUEL 24.3s (LMS Tech)



SEE SHT M-107 FOR CONTINUATION

- NOTES:
- SEE TANK NOZZLE SCHEDULE SHEET M-506.
 - FILL LINES SHALL TERMINATE WITH CAM-LOC CONNECTIONS. CONSTRUCTED OF STAINLESS STEEL AND INCLUDE PLUG/CAP WITH CHAIN. CONFIRM END TYPE WITH OWNER.

NO.	DATE	BY	REVISION

NOTICE

0

1/2

1

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HLB DESIGNED
JLC DRAWN
HLB CHECKED

REGISTERED PROFESSIONAL
ENGINEER
106439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:00Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

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Stantec

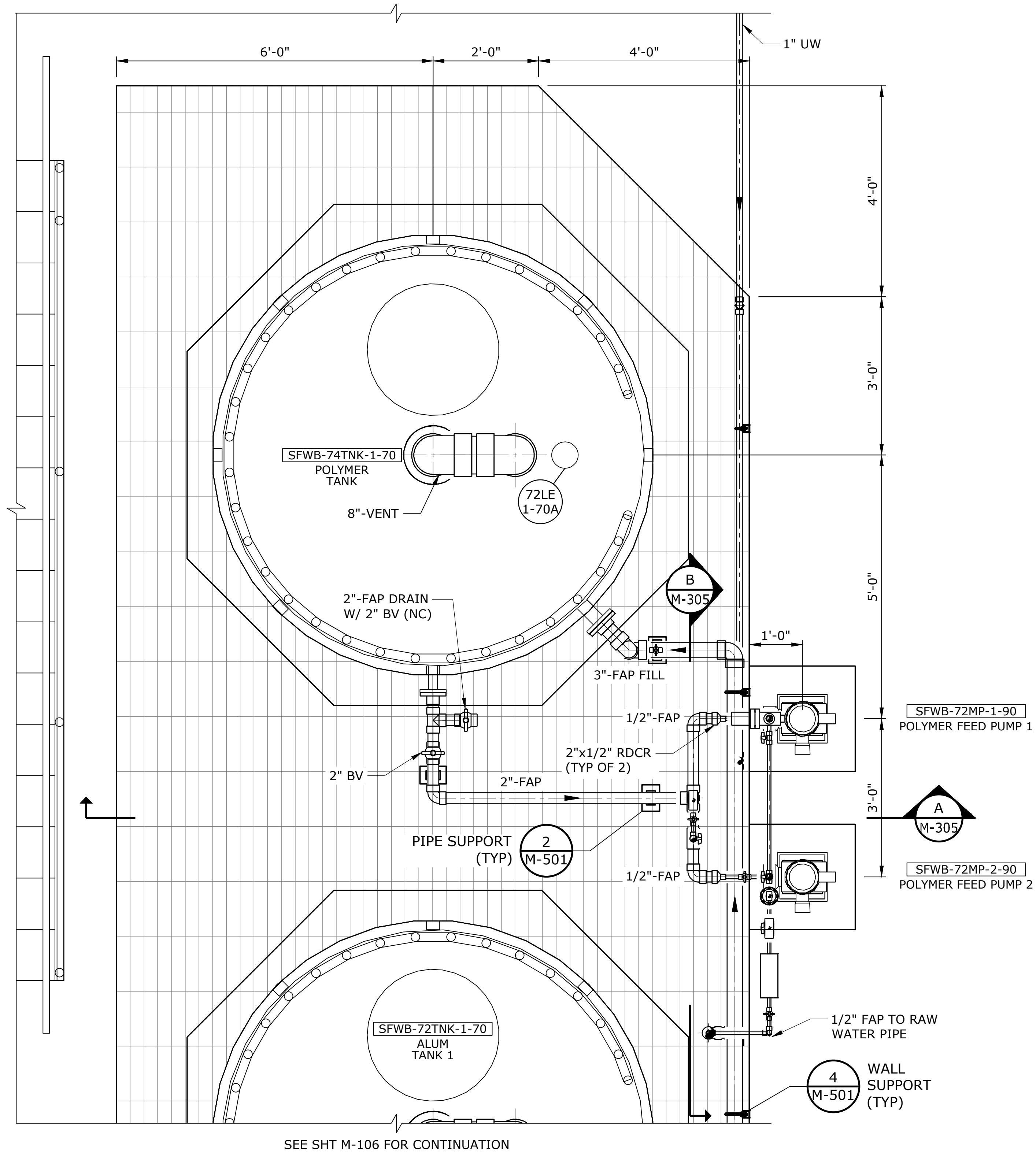
South Fork
WATER
PURE WATER SINCE 1915

WATER QUALITY SYSTEMS BUILDING

MECHANICAL			
ALUM SYSTEM PLAN			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

SHEET
M-106

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-107 7/29/2026 10:58 AM JUSTIN.DEUEL 24.3s (LMS Tech)



SEE SHT M-106 FOR CONTINUATION

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

NOTE:
1. SEE TANK NOZZLE SCHEDULE SHEET M-507.

NO.	DATE	BY	REVISION

NOTICE

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1/2

1

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JLC
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ENGINEER
105439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:50Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

WATER QUALITY SYSTEMS BUILDING

MECHANICAL

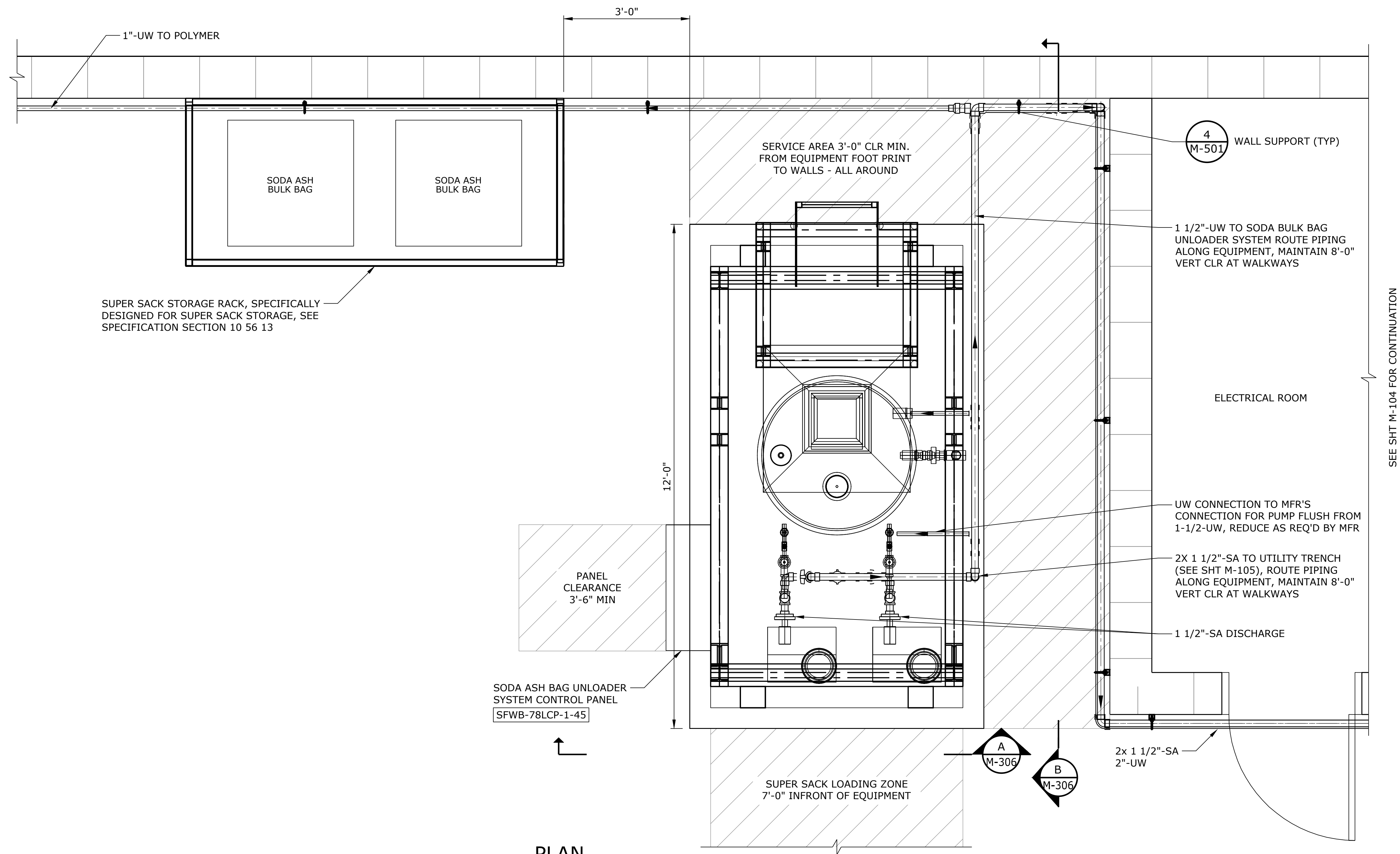
POLYMER SYSTEM PLAN

PROJECT NO.: W253326ORSCALE: AS SHOWNDATE: AUGUST 2026

SHEET

M-107

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-108 TREATMENT BUILDING SODA ASH PLAN.dwg M-108 7/29/2026 10:59 AM JUSTIN.DEUEL 24.3s (LMS Tech)



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

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

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ENGINEER
105439PE
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWES 12-31-27

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 **Stantec**

 **South Fork WATER**
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL

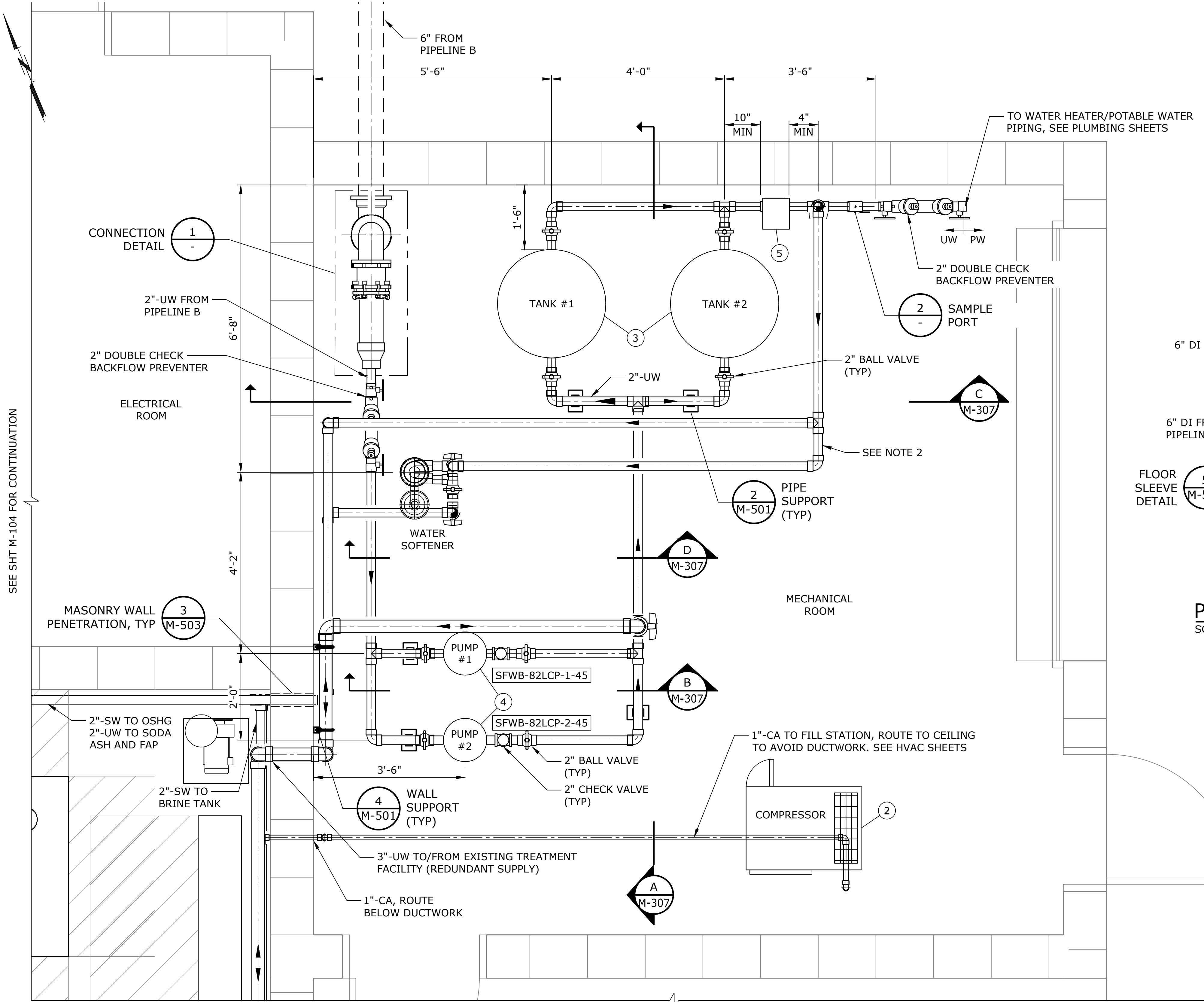
SODA ASH FEED SYSTEM PLAN

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET

M-108

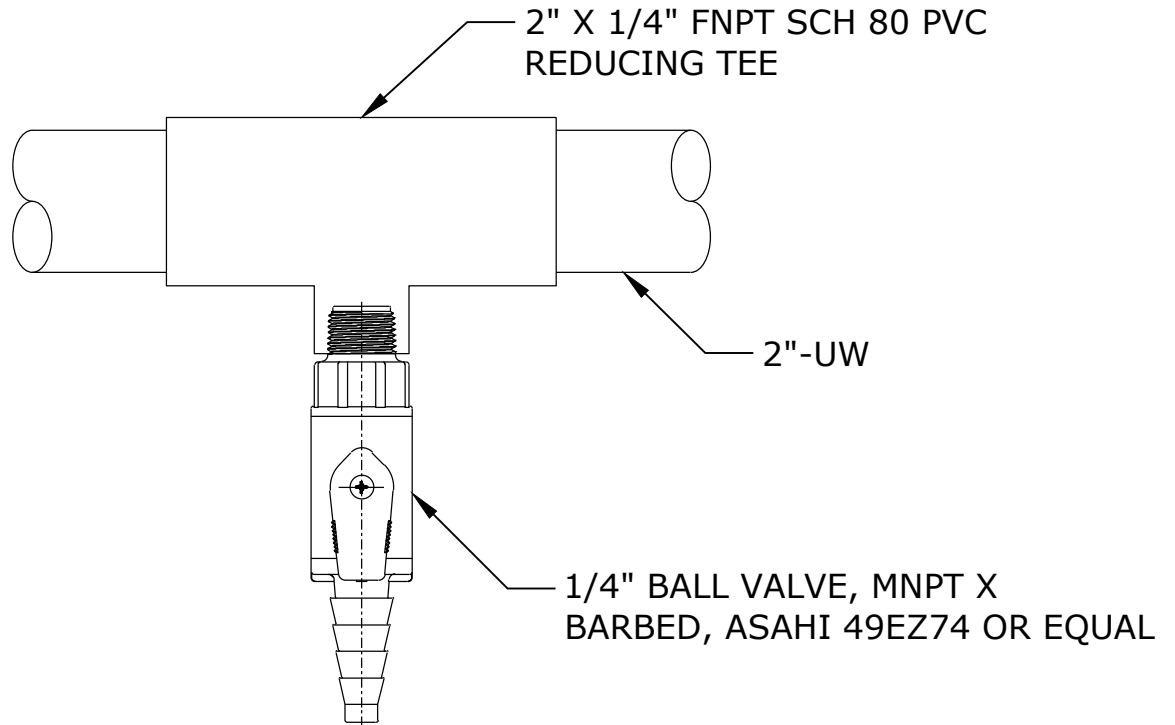
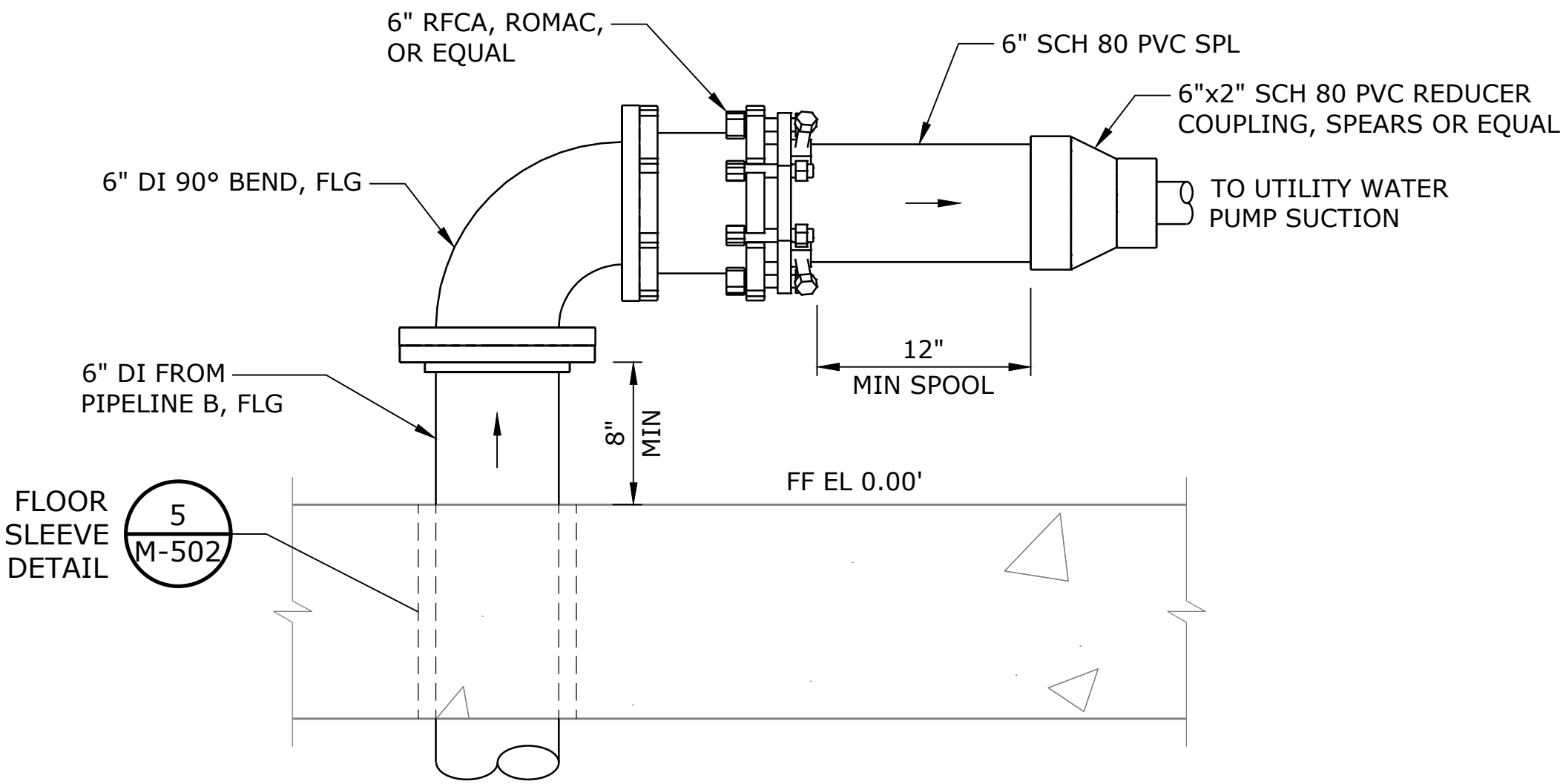
\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-109 7/29/2026 10:59 AM JUSTIN.DEUEL 24.3s (LMS Tech)



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

KEY NOTES

- COORDINATE WITH OSHG MANUFACTURER FOR INSTALLATION OF INLINE CARTRIDGE FILTERS AS REQUIRED FOR SOFTENING SYSTEM.
- FURNISH AND INSTALL AIR COMPRESSOR PER SPEC SECTION 43 05 10
- FURNISH AND INSTALL HYDROPNEUMATIC TANK SYSTEM PER SPEC SECTION 43 41 17
- FURNISH AND INSTALL BOOSTER PUMP PER SPEC SECTION 43 23 13.
- FURNISH AND INSTALL 2" MAG METER, ENRESS-HAUSER PROLINE PROMAG W 300 DN50, OR EQUAL

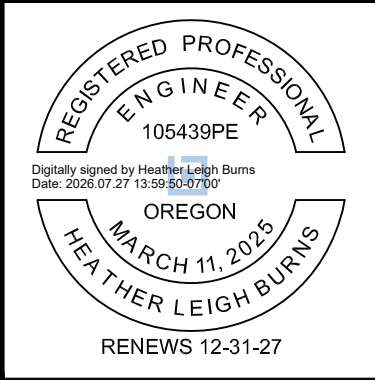


- NOTES:
- POTABLE WATER SYSTEM NOT SHOWN FOR CLARITY, SEE PLUMBING SHEETS.
 - FIELD ROUTE 2" UTILITY WATER PIPING TO SOFTENER ASSEMBLY ALONG CEILING. PROVIDE PIPE SUPPORTS AT MAX ALLOWABLE SPACING, SEE SPECIFICATIONS.
 - 6" DUCTILE IRON PIPE TAP FROM PIPELINE B, WHICH IS A 24" INTERTIE WITH OTHER NEIGHBORING WATER PROVIDERS.

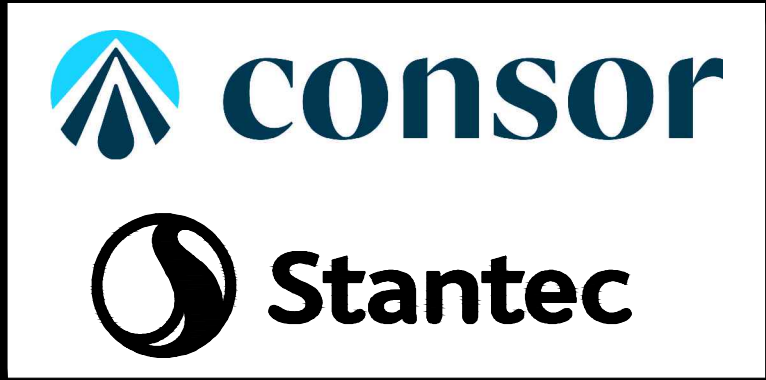
NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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JLC
HLB DRAWN
HLB
HLB CHECKED
HLB



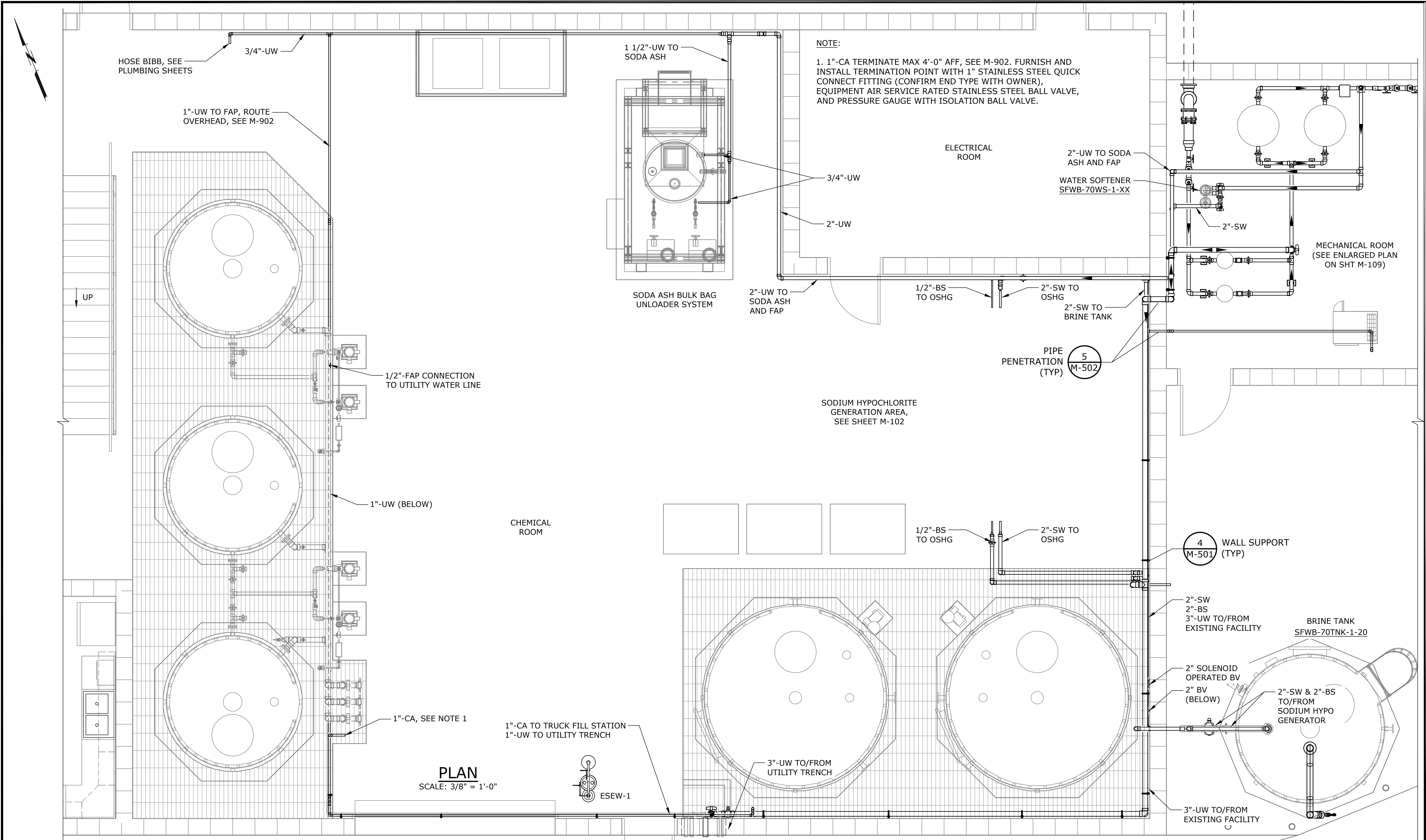
BID SET



MECHANICAL			
MECHANICAL ROOM PLAN			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

SHEET
M-109

\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-110 UTILITY WATER PLAN.dwg M-110 7/29/2026 10:59 AM JUSTIN.DEUEL 24.3s (LMS Tech)



NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

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JLC DRAWN

HLB CHECKED

REGISTERED PROFESSIONAL ENGINEER

106439PE

OREGON

MARCH 11, 2025

HEATHER LEIGH BURNS

RENEWS 12-31-27

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South Fork WATER

PURE WATER SINCE 1915

WATER QUALITY SYSTEMS BUILDING

MECHANICAL

UTILITY WATER AND COMPRESSED AIR PLAN

PROJECT NO.: W253326OR

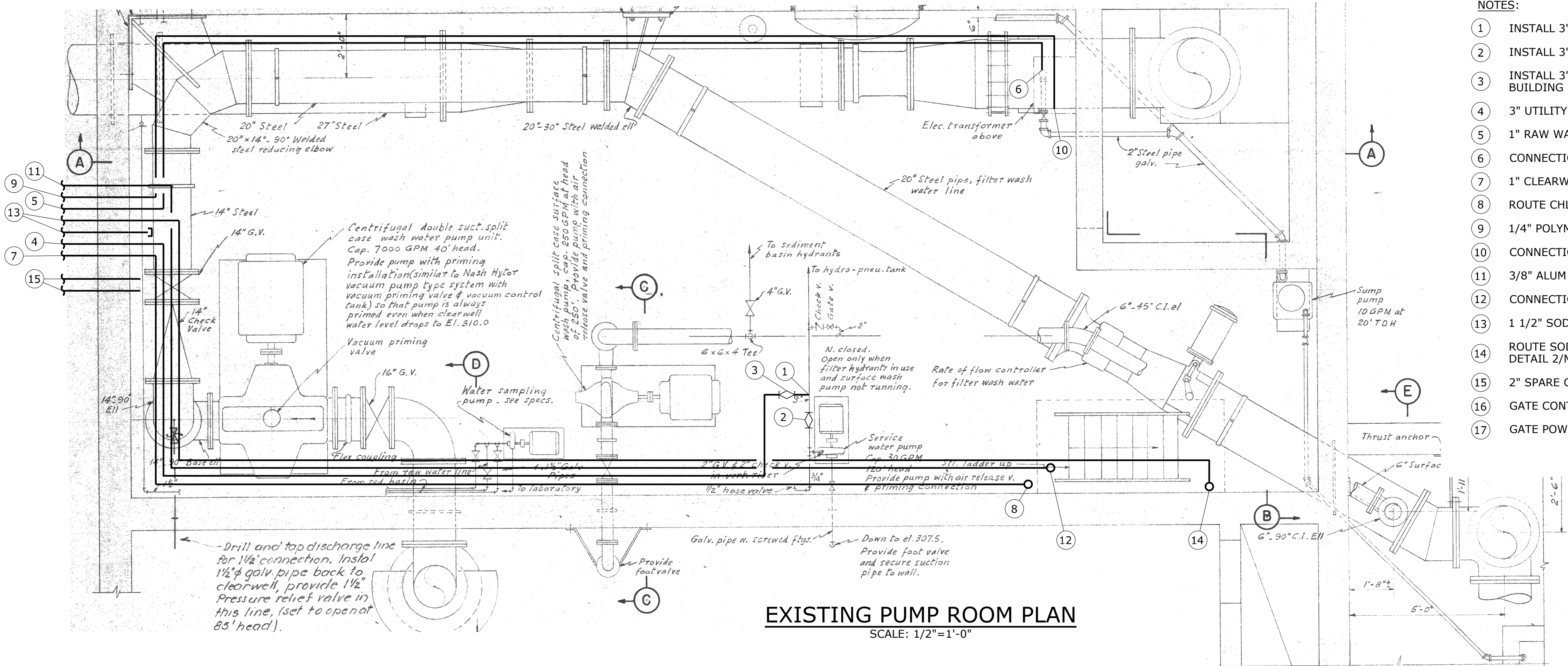
SCALE: AS SHOWN

DATE: AUGUST 2026

SHEET

M-110

\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-111-116 EXISTING FACILITY INJECTION LOCATIONS.dwg M-111 7/29/2026 10:59 AM JUSTIN.DEUEL 24:3s (LMS Tech)



NOTES:

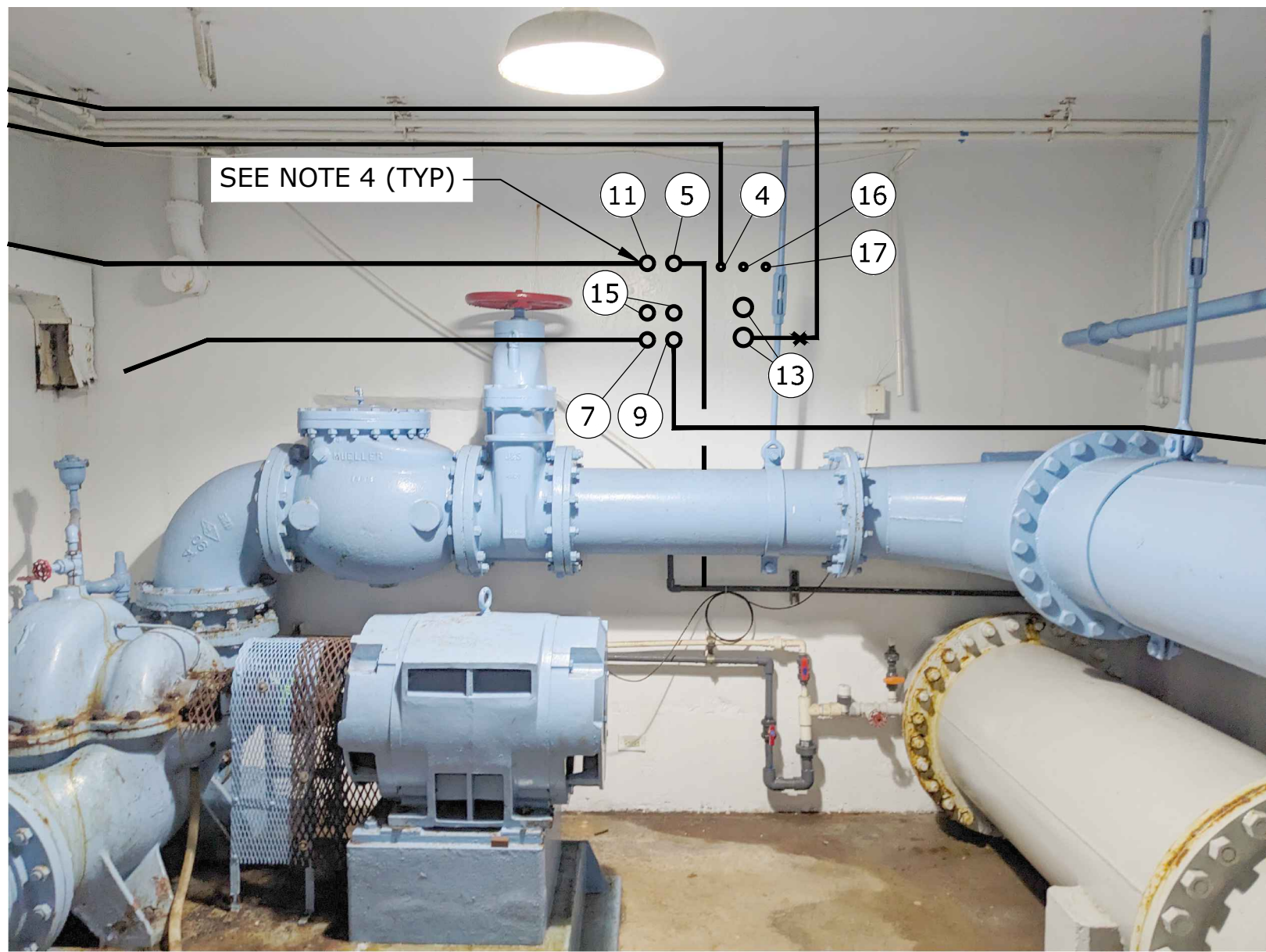
- 1 INSTALL 3"x1" TEE ON EXISTING UTILITY WATER DISCHARGE LINE
- 2 INSTALL 3" PLUG VALVE ON EXISTING UTILITY WATER DISCHARGE LINE
- 3 INSTALL 3" PLUG VALVE ON NEW UTILITY WATER CONNECTION LINE TO CHEMICAL BUILDING
- 4 3" UTILITY WATER CONNECTION TO COMMON UTILITY TRENCH CONNECTION
- 5 1" RAW WATER CHLORINE INJECTION LINE FROM COMMON UTILITY TRENCH
- 6 CONNECTION TO EXISTING INFLUENT CHLORINE INJECTION POINT
- 7 1" CLEARWELL CHLORINE INJECTION LINE FROM COMMON UTILITY TRENCH
- 8 ROUTE CHLORINE LINE TO CONNECT TO EXISTING CLEARWELL INJECTION POINT
- 9 1/4" POLYMER LINE FROM COMMON UTILITY TRENCH
- 10 CONNECTION TO EXISTING POLYMER INJECTION POINT, SEE DET 2, SHEET M-115
- 11 3/8" ALUM LINE FROM COMMON UTILITY TRENCH
- 12 CONNECTION TO EXISTING ALUM LINE, SEE DETAIL 2/M-114 FOR DETAILS
- 13 1 1/2" SODA ASH FROM COMMON UTILITY TRENCH, SEE NOTE 6
- 14 ROUTE SODA ASH LINE THROUGH CEILING TO CLEARWELL INJECTION POINT, SEE DETAIL 2/M-113 FOR CONNECTION DETAILS
- 15 2" SPARE CONDUIT FROM COMMON UTILITY TRENCH
- 16 GATE CONTROL FROM COMMON UTILITY TRENCH
- 17 GATE POWER FROM COMMON UTILITY TRENCH



EXISTING PUMP ROOM WALL PENETRATION DETAIL

SCALE: NTS

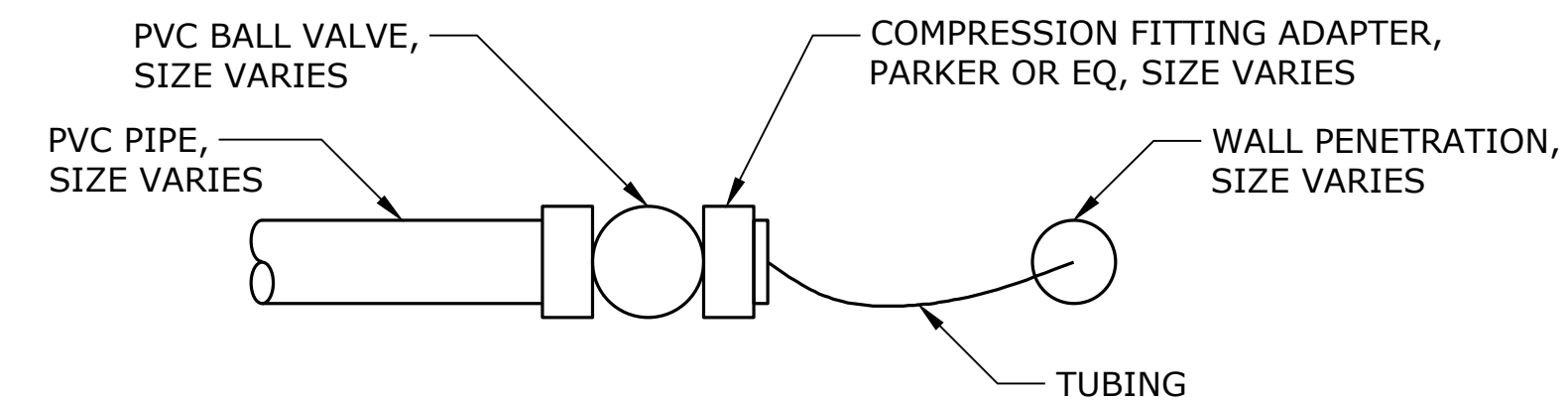
1



PIPE ROUTING DETAIL

SCALE: NTS

2



TUBING TO RIGID PIPE TRANSITION DETAIL

SCALE: NTS

3

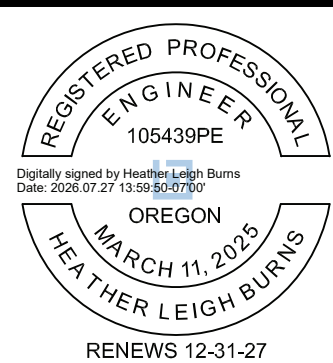
NOTES:

1. WALL PENETRATIONS AND EXISTING REBAR ARE SHOWN SCHEMATICALLY.
2. DO NOT DAMAGE EXISTING REBAR WHEN PENETRATING THE WALL. LOCATE WALL EXISTING REBAR USING NONDESTRUCTIVE METHODS PRIOR TO LOCATING WALL PENETRATIONS.
3. REPAIR WALL PENETRATIONS PER SPECIFICATIONS 03 01 30-3.9.
4. SODIUM HYPOCHLORITE, ALUM, AND POLYMER FEED LINES TRANSITION FROM POLY BRAIDED TUBING IN PVC CONDUIT TO WALL/CEILING MOUNTED RIGID PIPE. TERMINATE CONDUIT AT WALL. RIGID PIPE AS SHOWN ON PIPE SCHEDULE.
5. FIELD ROUTE CHEMICAL FEED PIPING ALONG WALL TO AVOID CONFLICTS WITH EXISTING PIPING AND EQUIPMENT AS NECESSARY.
6. TERMINATE SPARE SODA ASH PIPE AFTER WALL PENETRATION AND CAP FOR FUTURE USE.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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JLC
DRAWN
HLB
CHECKED



BID SET



MECHANICAL			
EXISTING PUMP ROOM MODIFICATIONS PLAN			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

SHEET
M-111

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-111-116 EXISTING FACILITY INJECTION LOCATIONS.dwg M-112 7/29/2026 11:00 AM JUSTIN.DEUEL 24.3s (LMS Tech)



RAW WATER CHLORINE INJECTION PIPE ROUTING
SCALE: N.T.S.

1
-



RAW WATER CHLORINE INJECTION POINT
SCALE: N.T.S.

2
-

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER
105439PE
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWES 12-31-27

BID SET

 **consor**
 **Stantec**

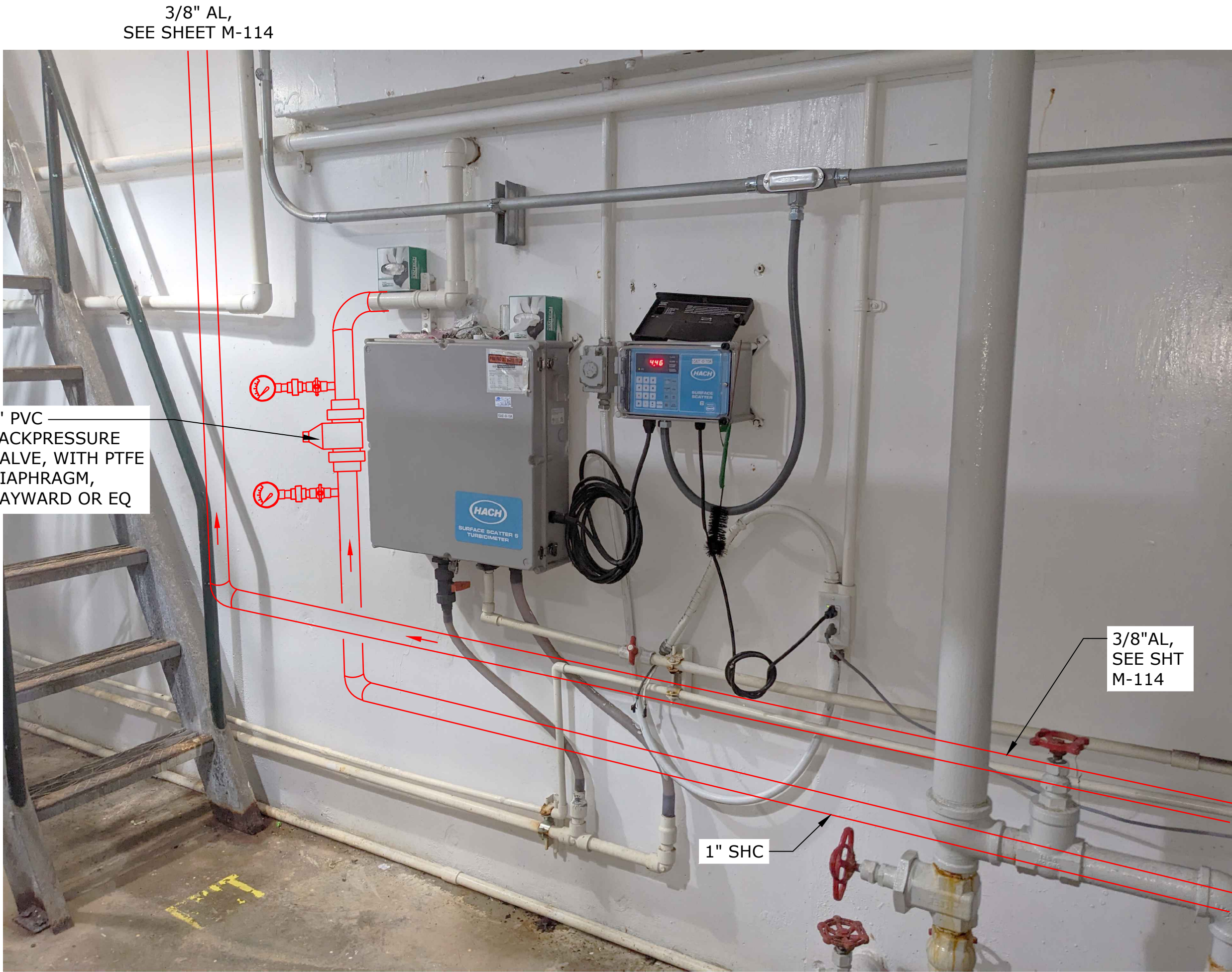
 **South Fork WATER**
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
EXISTING FACILITY INJECTION LOCATIONS - 1

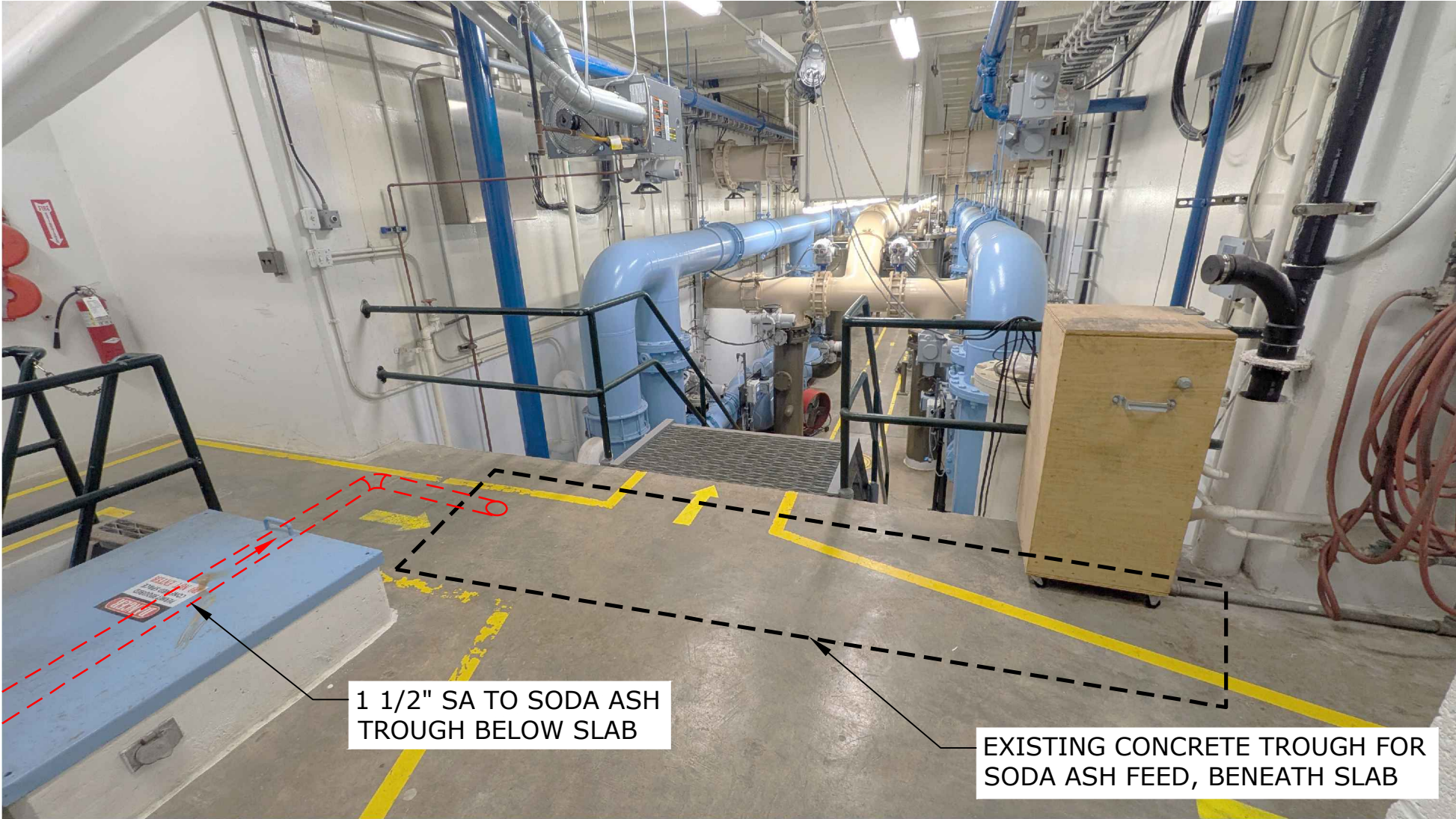
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-112

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-111-116 EXISTING FACILITY INJECTION LOCATIONS.dwg M-113 7/29/2026 11:00 AM JUSTIN.DEUEL 24.3s (LMS Tech)



FINISHED WATER CHLORINE INJECTION PIPE ROUTING
SCALE: N.T.S.



SODA ASH INJECTION PIPE ROUTING
SCALE: N.T.S.



NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
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JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL ENGINEER
105439PE
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWES 12-31-27

BID SET

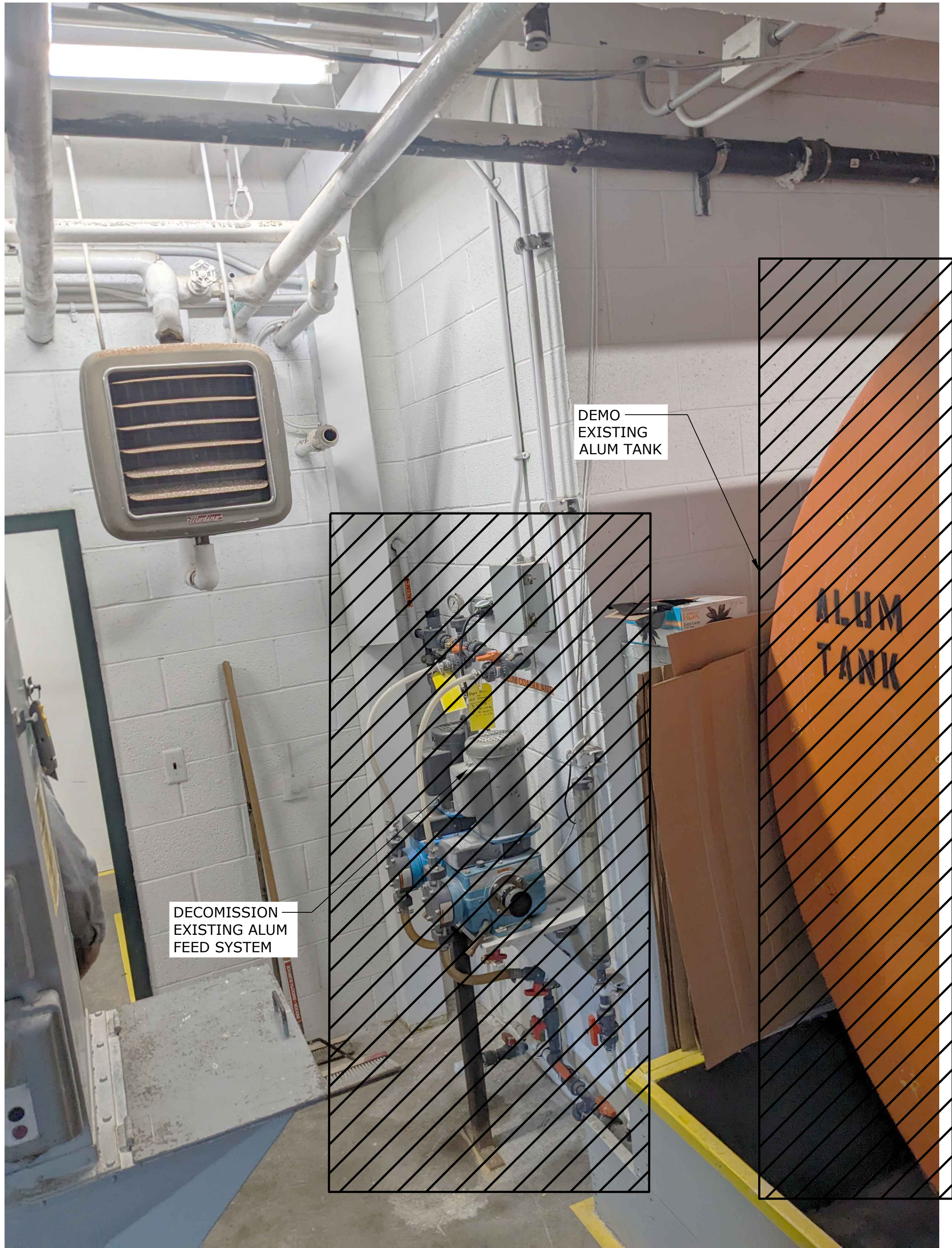
South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
EXISTING FACILITY INJECTION LOCATIONS - 2

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-113

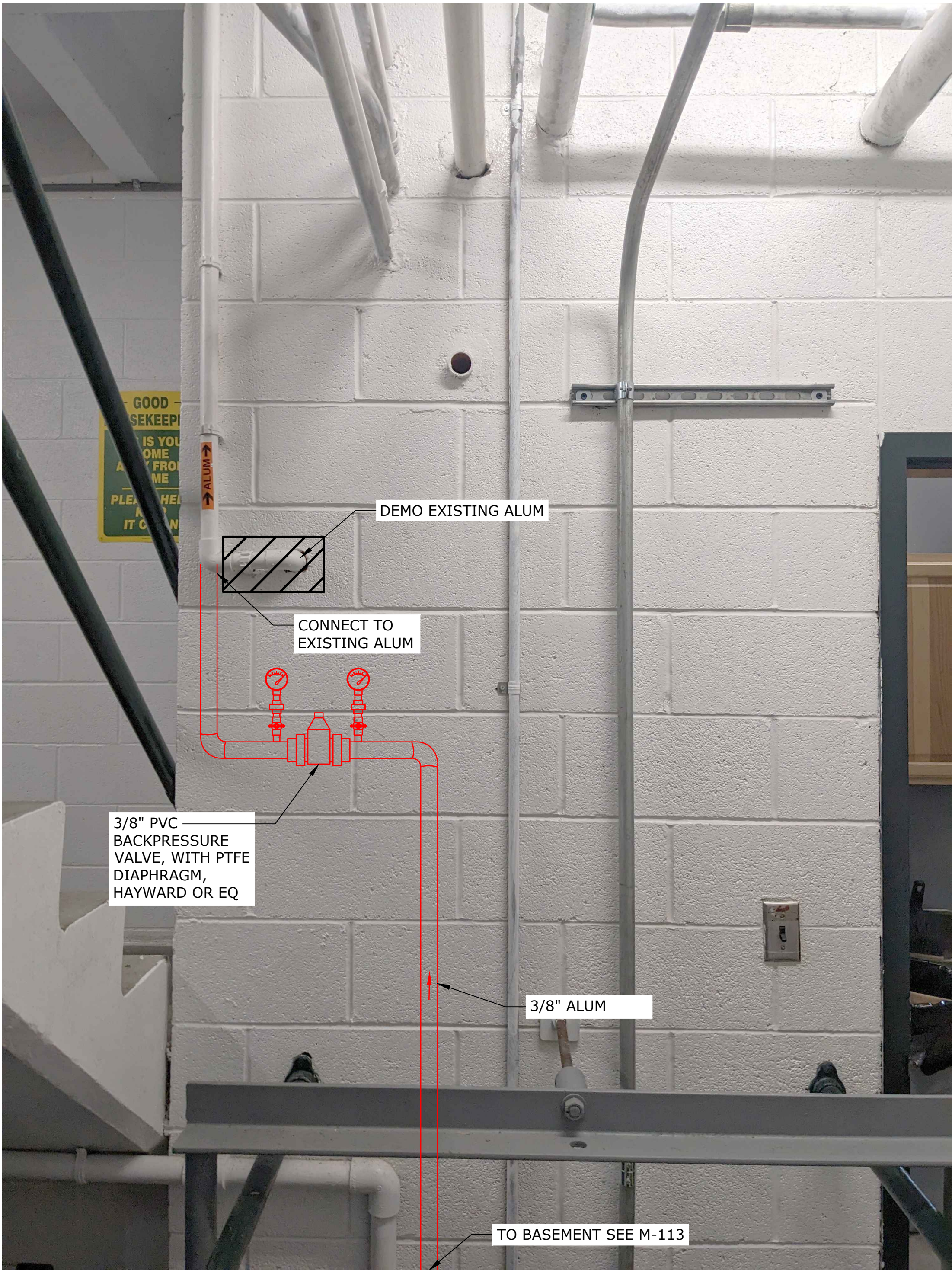
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EXISTING ALUM FEED SYSTEM

SCALE: N.T.S.

1
-



ALUM FEED POINT

SCALE: N.T.S.

2
-

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
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JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
106439PE
OREGON
HEATHER LEIGH BURNS
MARCH 11, 2025
RENEWES 12-31-27

BID SET

 **conisor**
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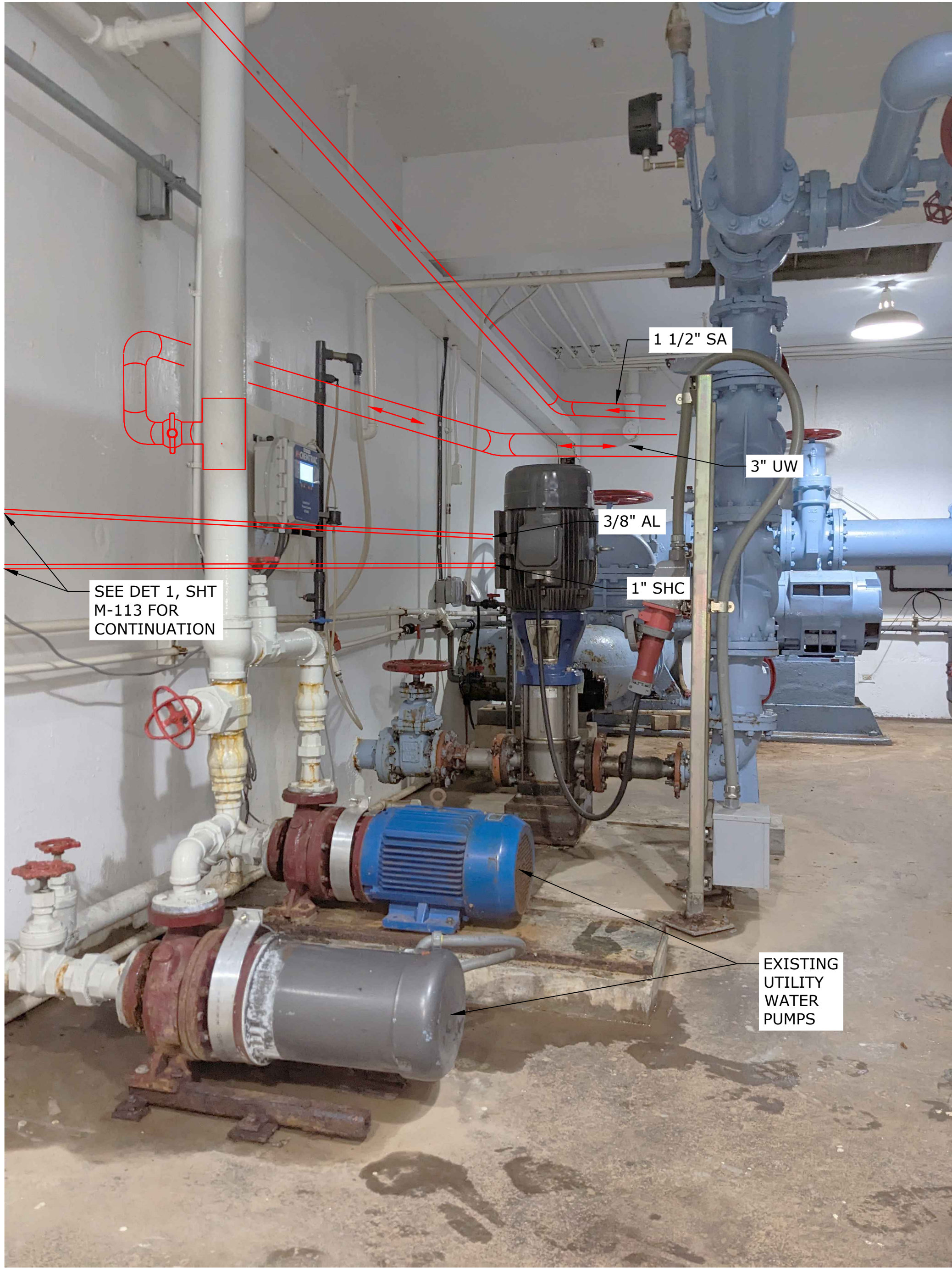
 **South Fork WATER**
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
EXISTING FACILITY INJECTION LOCATIONS - 3

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-114

\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-111-116 EXISTING FACILITY INJECTION LOCATIONS.dwg M-115 7/29/2026 11:00 AM JUSTIN.DEUEL 24.3s (LMS Tech)



EXISTING PUMP ROOM DETAIL

1
-



POLYMER PIPE ROUTING DETAIL

2
-

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

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DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
OREGON
HEATHER LEIGH BURNS
MARCH 11, 2025
RENEWES 12-31-27

BID SET

South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
EXISTING FACILITY INJECTION LOCATIONS - 4

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-115

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-111-116 EXISTING FACILITY INJECTION LOCATIONS.dwg M-116 7/29/2026 11:00 AM JUSTIN.DEUEL 24.3s (LMS Tech)



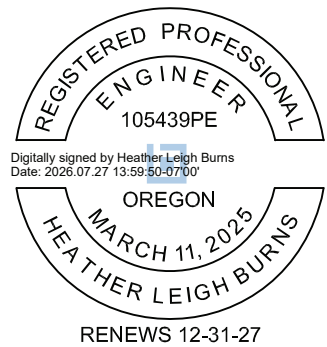
NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED



BID SET



MECHANICAL			
EXISTING FACILITY INJECTION LOCATIONS - 5			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

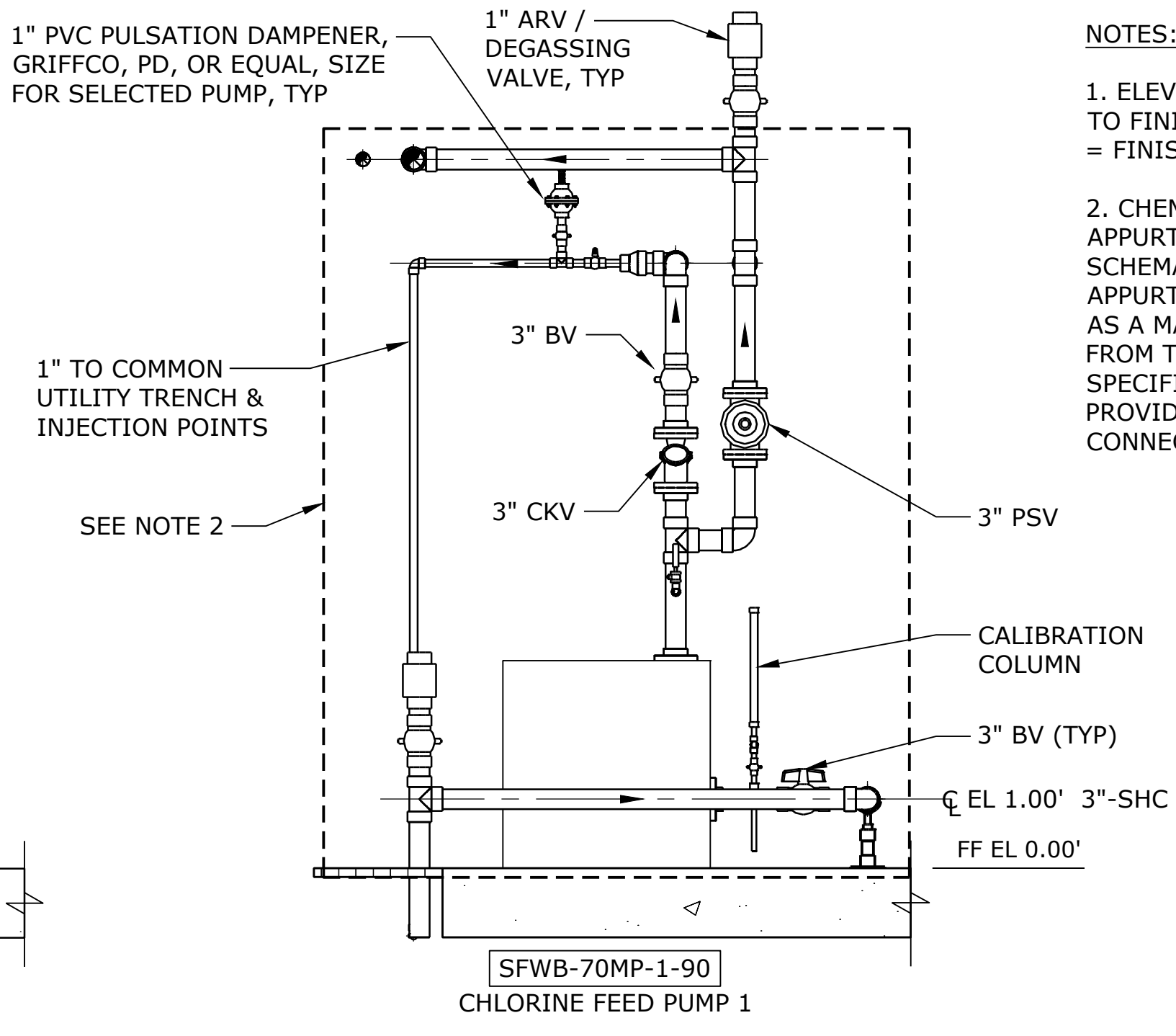
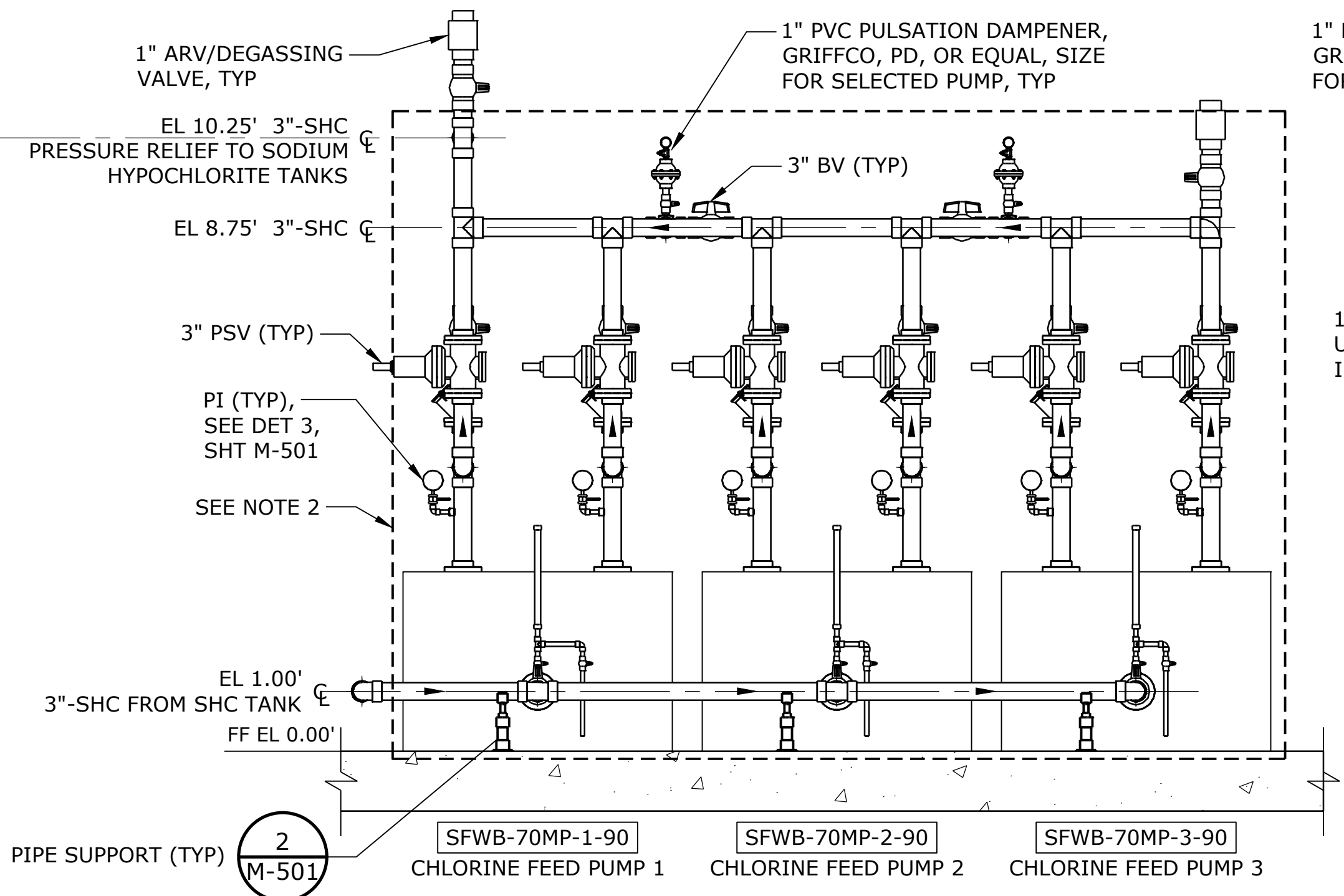
SHEET

M-116

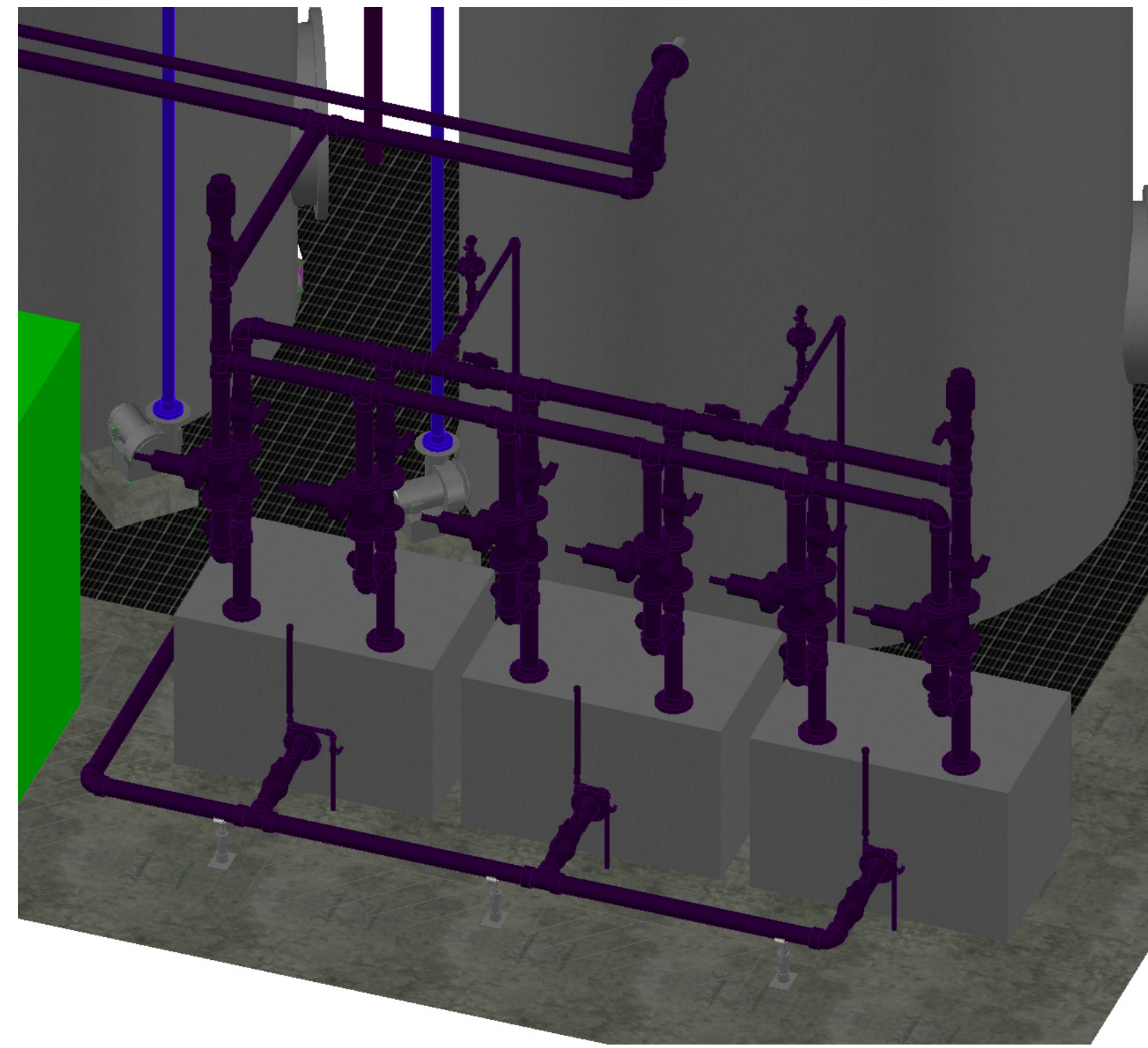
SHEET

M-301

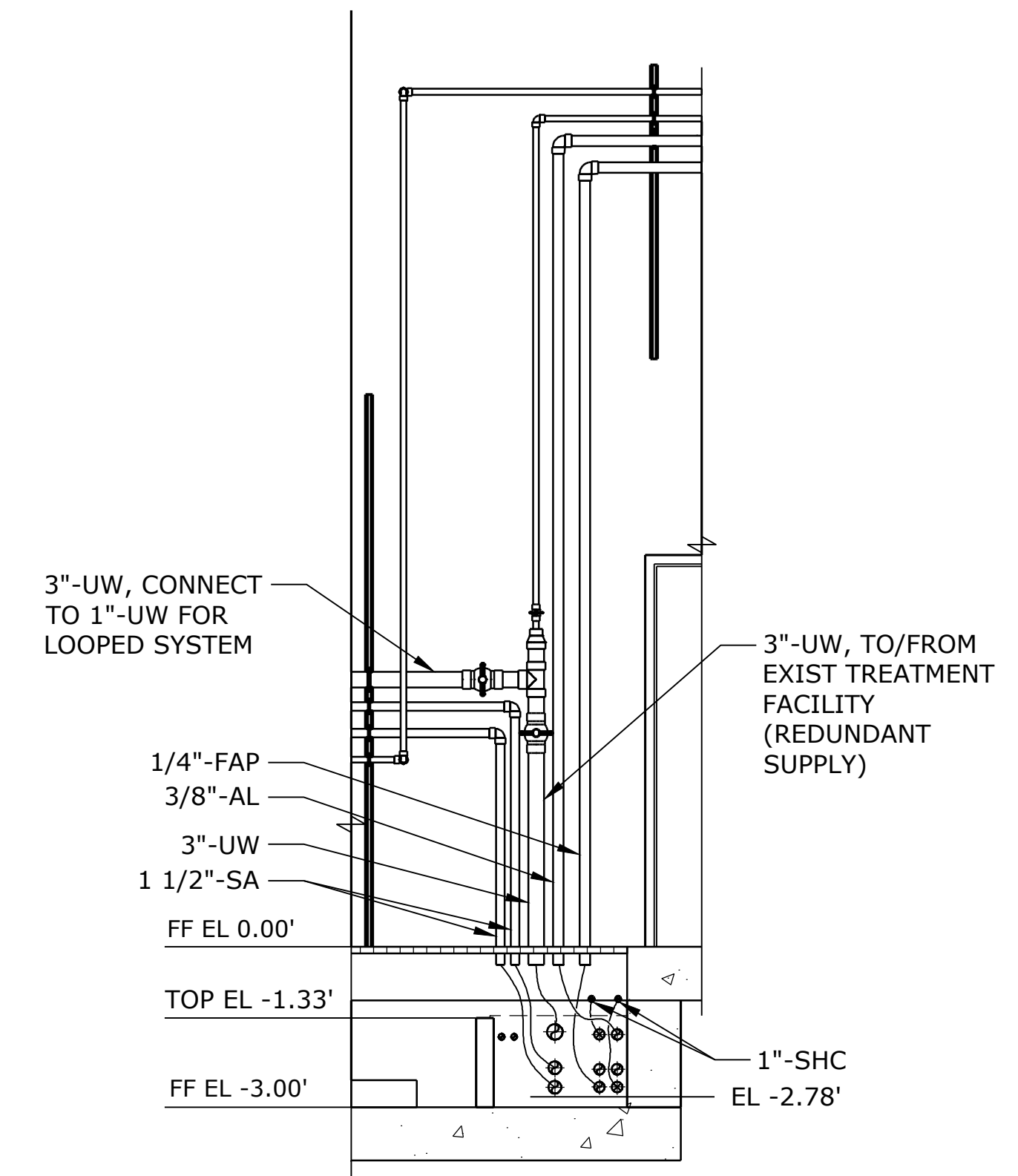
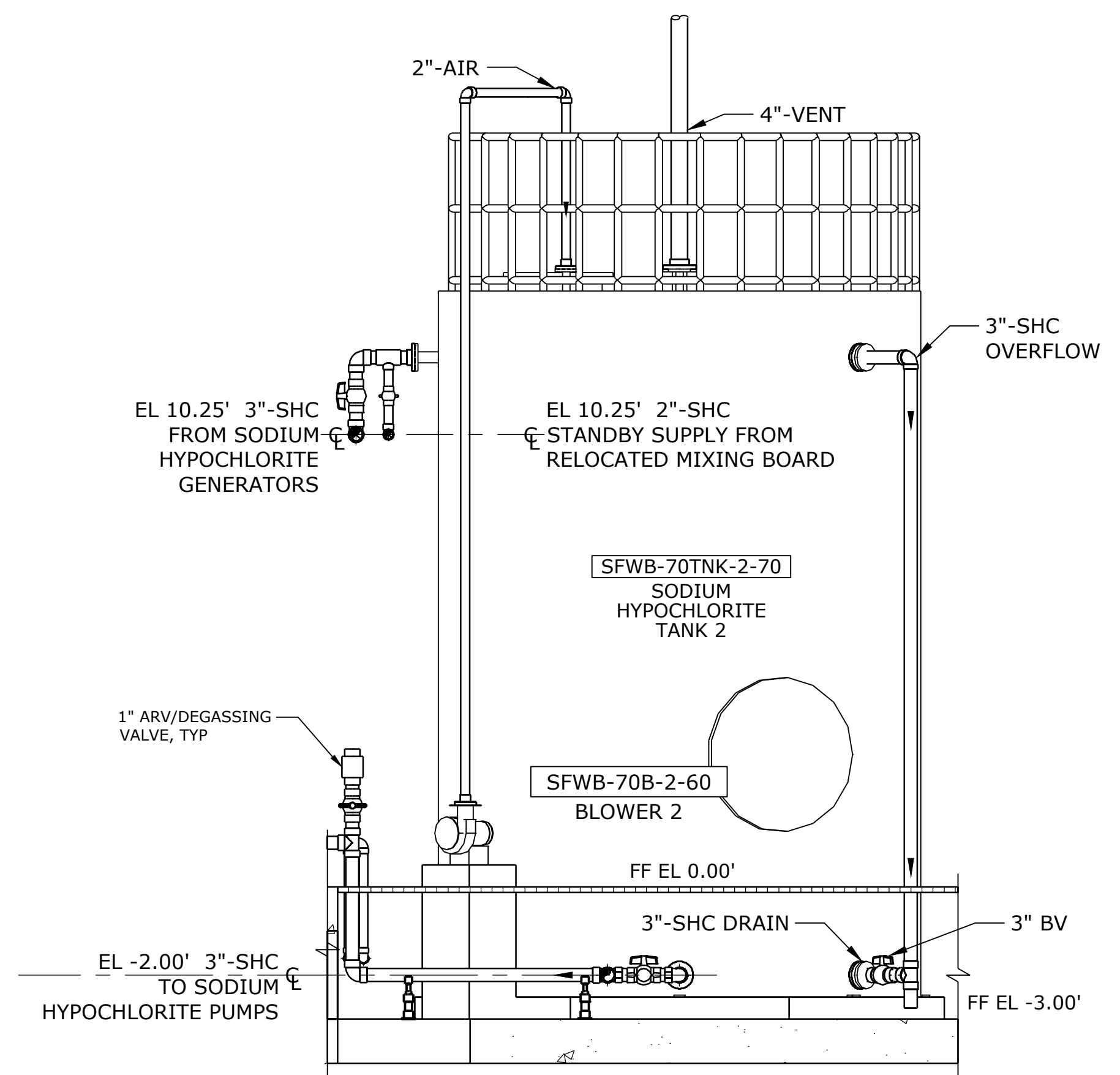
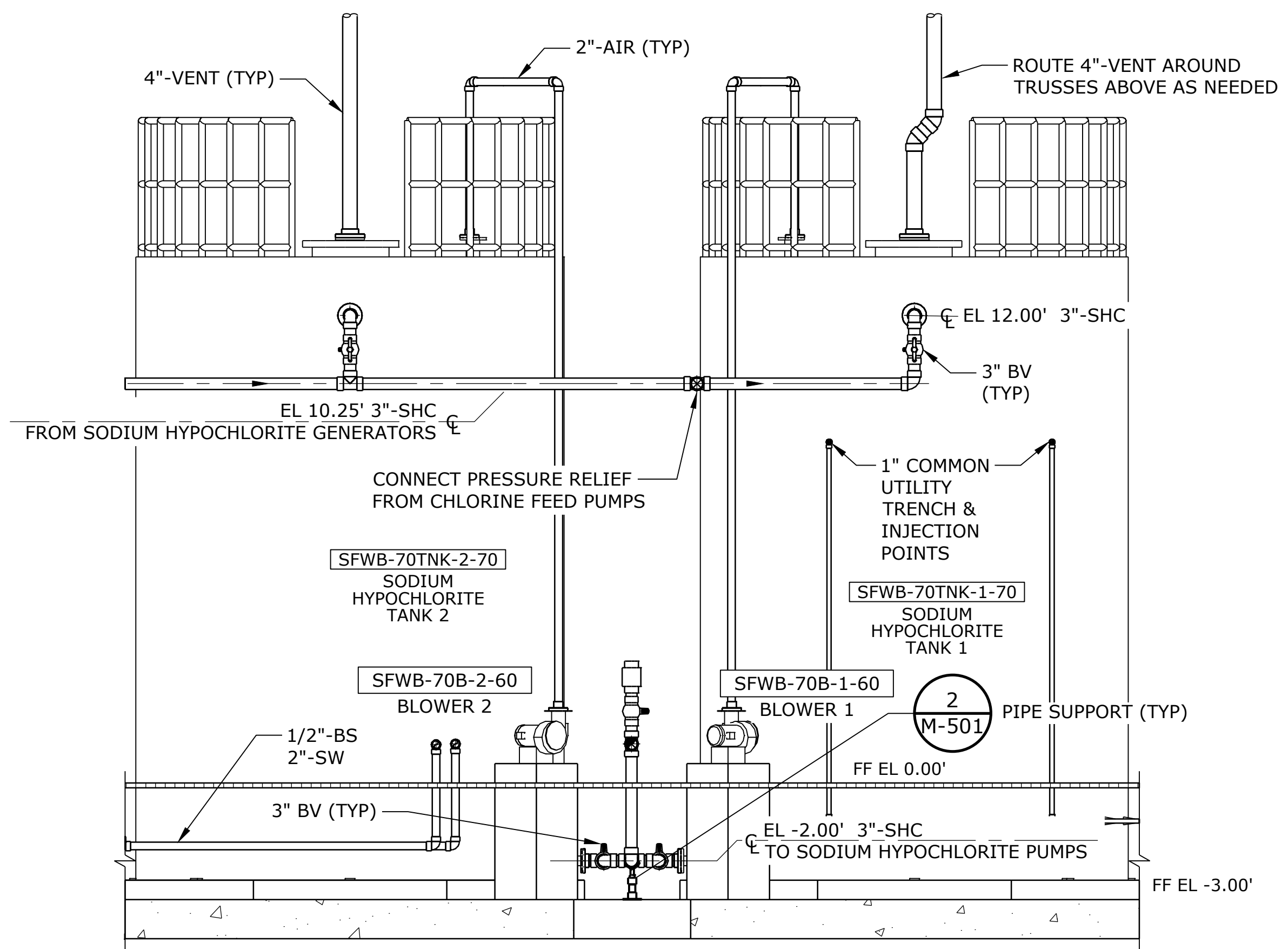
\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-302 TREATMENT BUILDING SODIUM HYPOCHLORITE SECTIONS 2 OF 3.dwg M-302 7/29/2026 11:01 AM JUSTIN.DEUEL 24.3s (LMS



- NOTES:
- ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION. EL 0.00 = FINISHED FLOOR EL 324.20.
 - CHEMICAL METERING PUMPS AND APPURTENANCES SHOWN SCHEMATICALLY. PUMPS, PIPING, AND APPURTENANCES SHALL BE PROCURED AS A MANUFACTURED SKID PACKAGE FROM THE PUMP MANUFACTURER. SEE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE PIPING UP TO SKID CONNECTIONS.



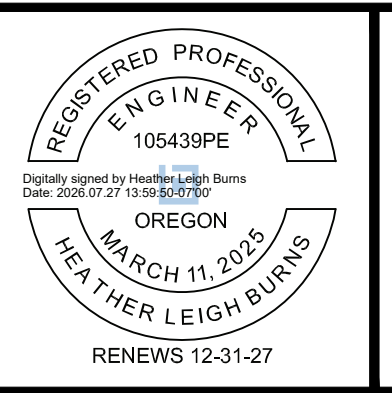
3D PERSPECTIVE
SCALE: N.T.S.



NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB DESIGNED
JLC DRAWN
HLB CHECKED



BID SET

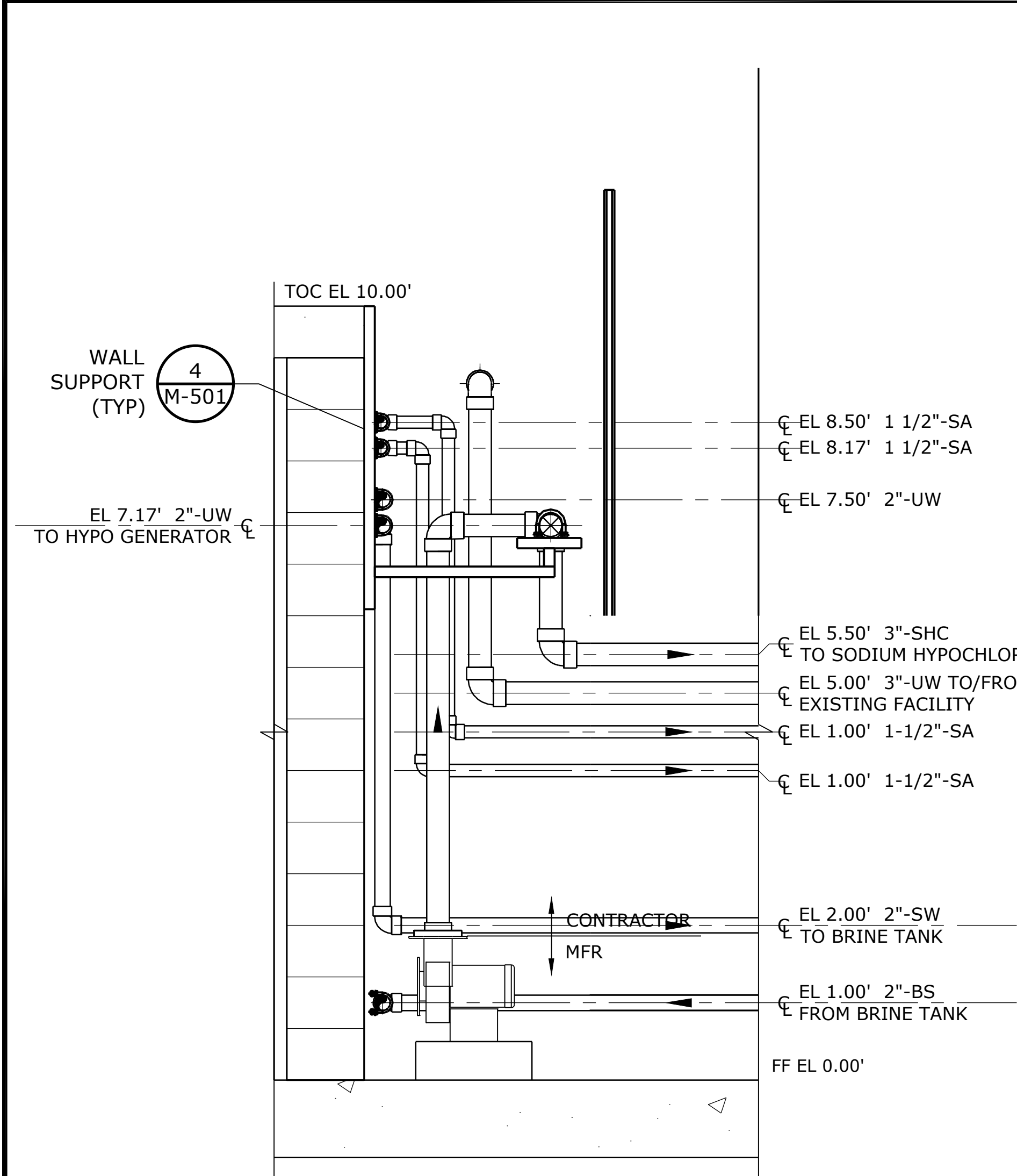


MECHANICAL
SODIUM HYPOCHLORITE SECTIONS - 2

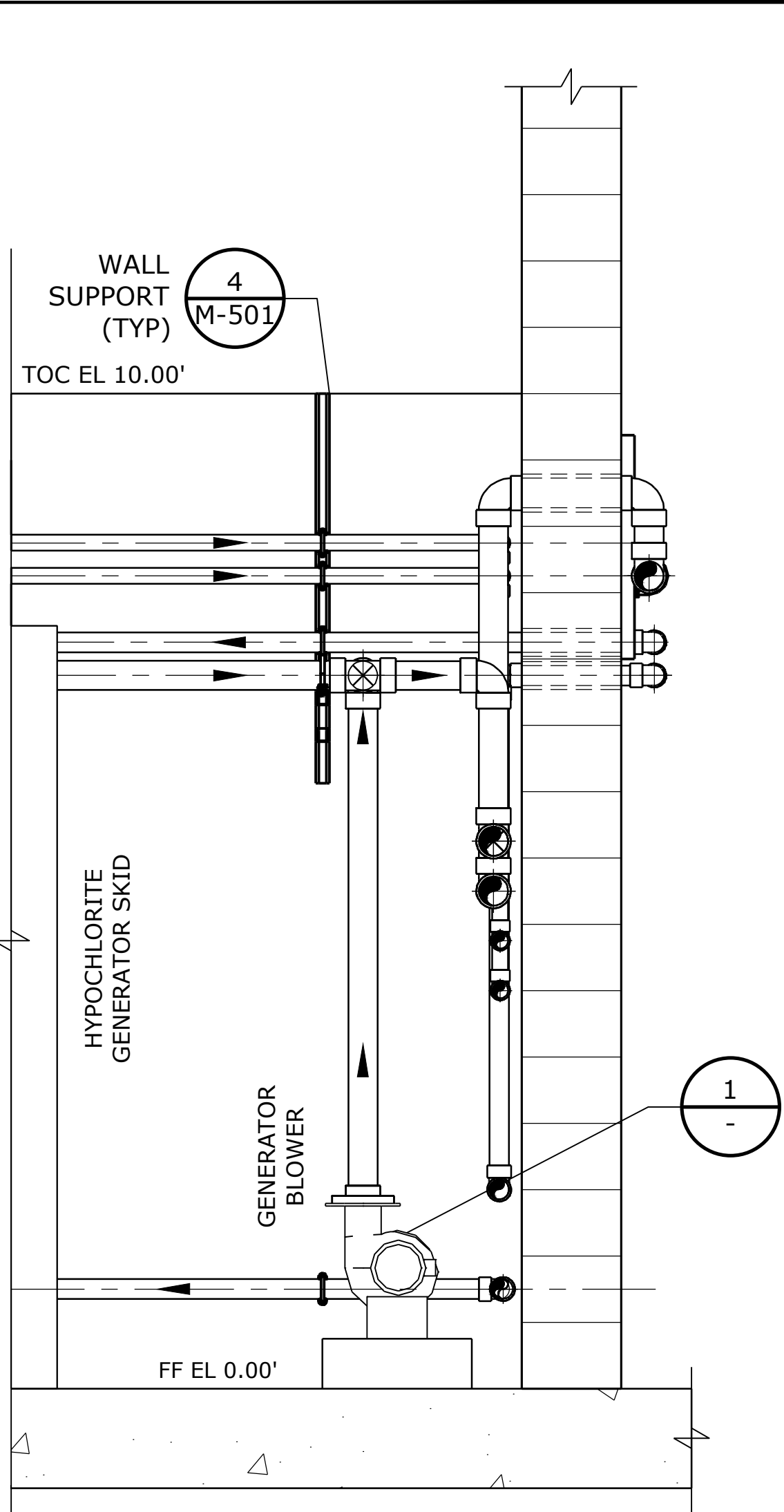
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-302

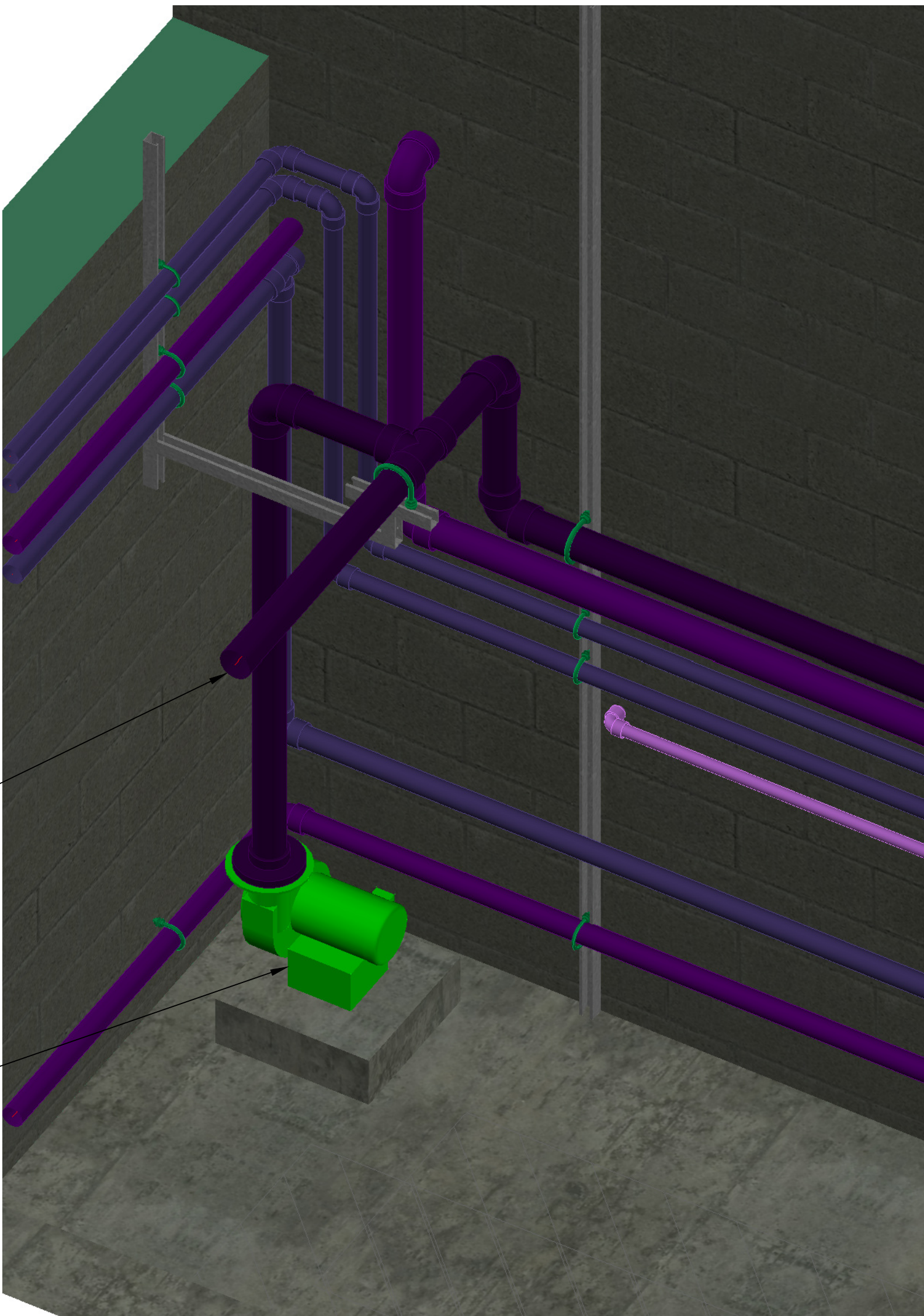
\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-303 TREATMENT BUILDING SODIUM HYPOCHLORITE SECTIONS 3 OF 3.dwg M-303 7/29/2026 11:02 AM JUSTIN.DEUEL 24.3s (LMS



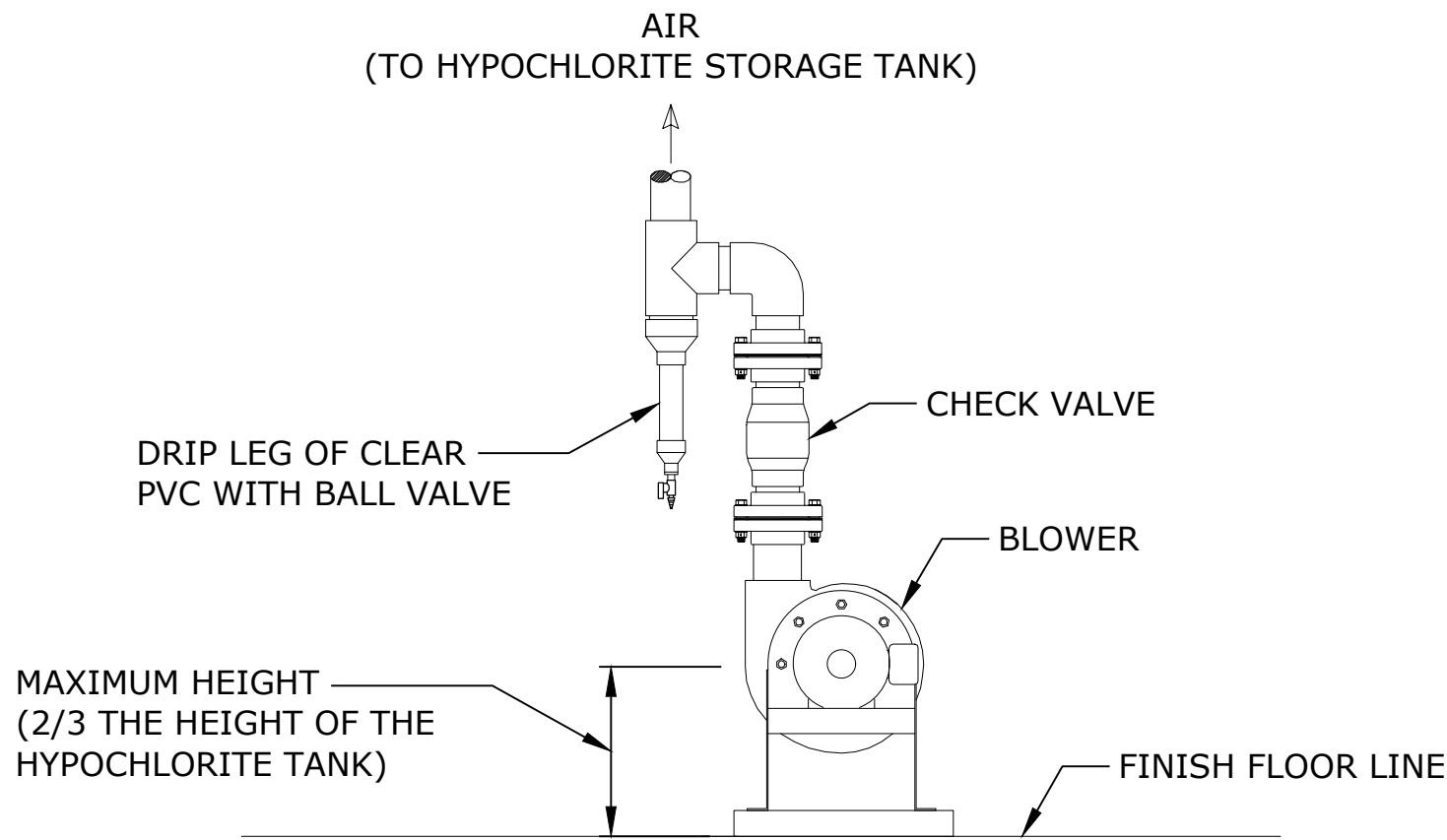
SECTION A
SCALE: 3/4" = 1'-0"



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



3D PERSPECTIVE
SCALE: N.T.S.



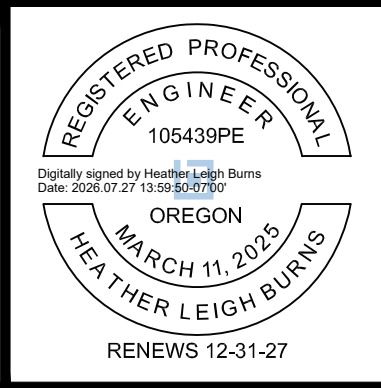
BLOWER DETAIL
SCALE: NTS

- NOTES:
- ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION. EL 0.00 = FINISHED FLOOR EL 324.20.
 - CONTRACTOR SHALL SUPPLY ALL REQUIRED PROCESS PIPING UP TO CONNECTION POINTS AT MANUFACTURER PROVIDED ONSITE GENERATION SKIDS, INCLUDING BRINE SOLUTION, SOFTENED WATER, SODIUM HYPOCHLORITE SOLUTION, AND BLOWER AND VENT PIPING, AND ALL ELECTRICAL CONNECTIONS. LOCATIONS OF PIPING CONNECTIONS WILL VARY BY ONSITE GENERATION MANUFACTURER.

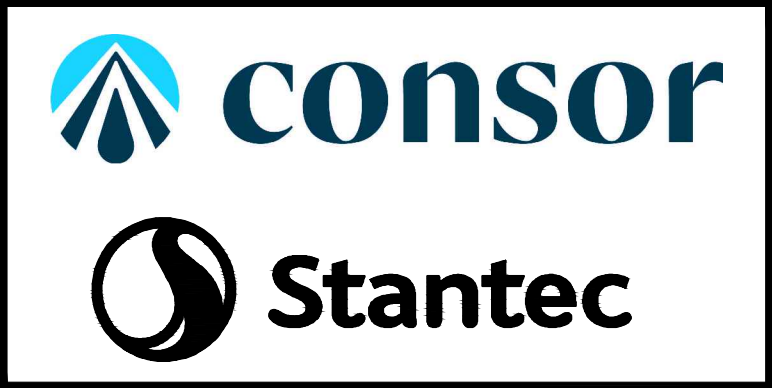
NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB DESIGNED
JLC
DRAWN
HLB
CHECKED
HLB



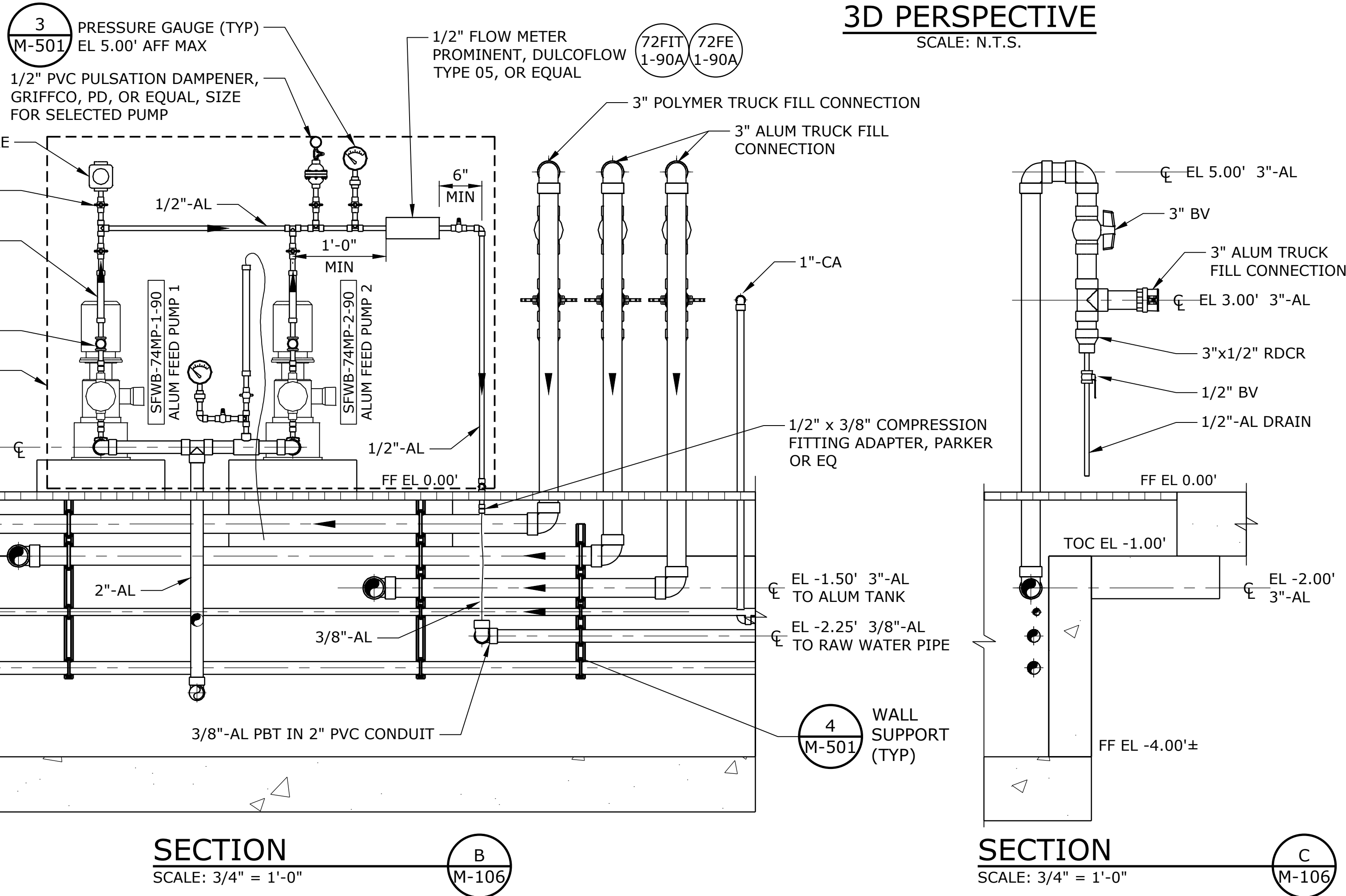
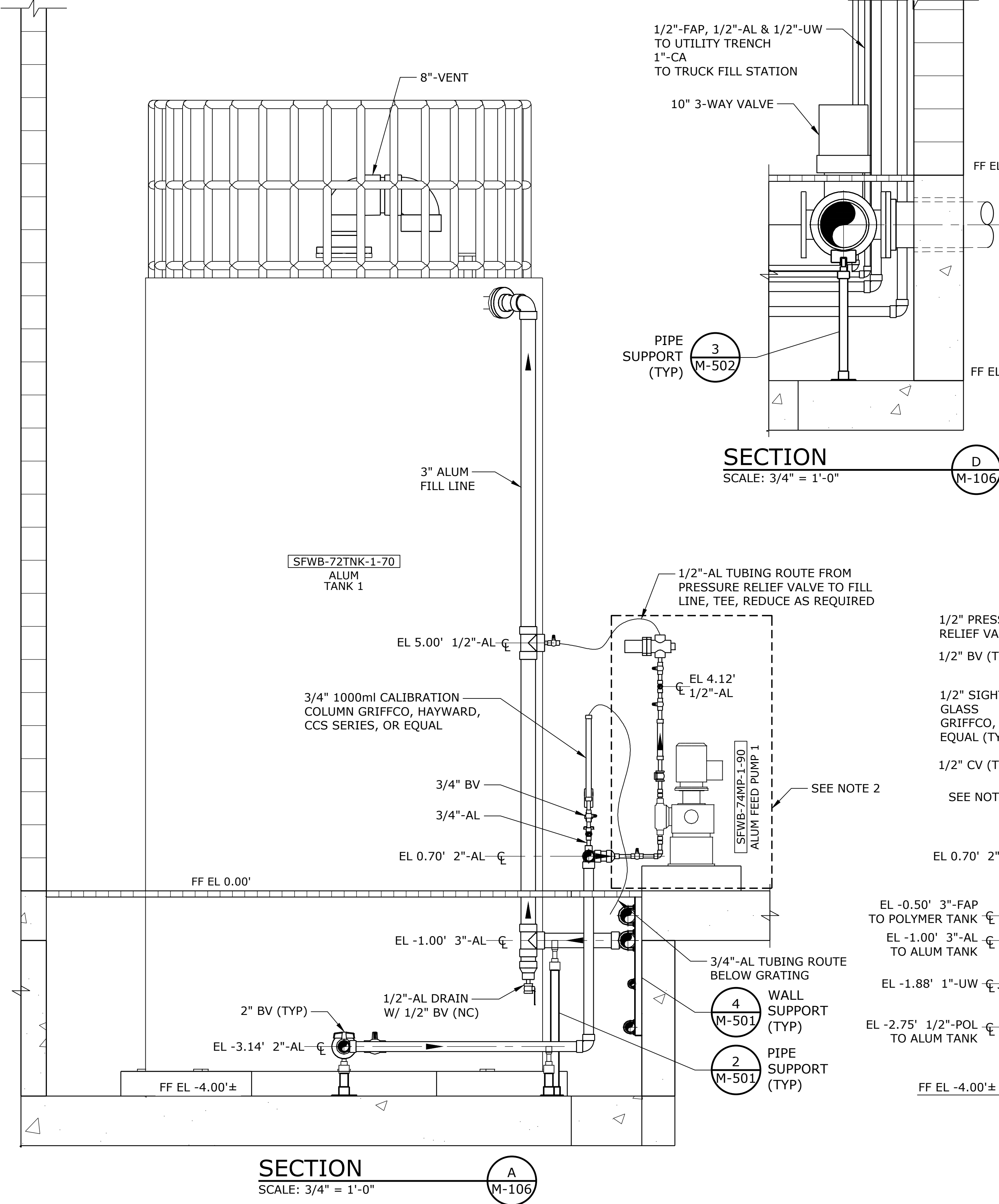
BID SET



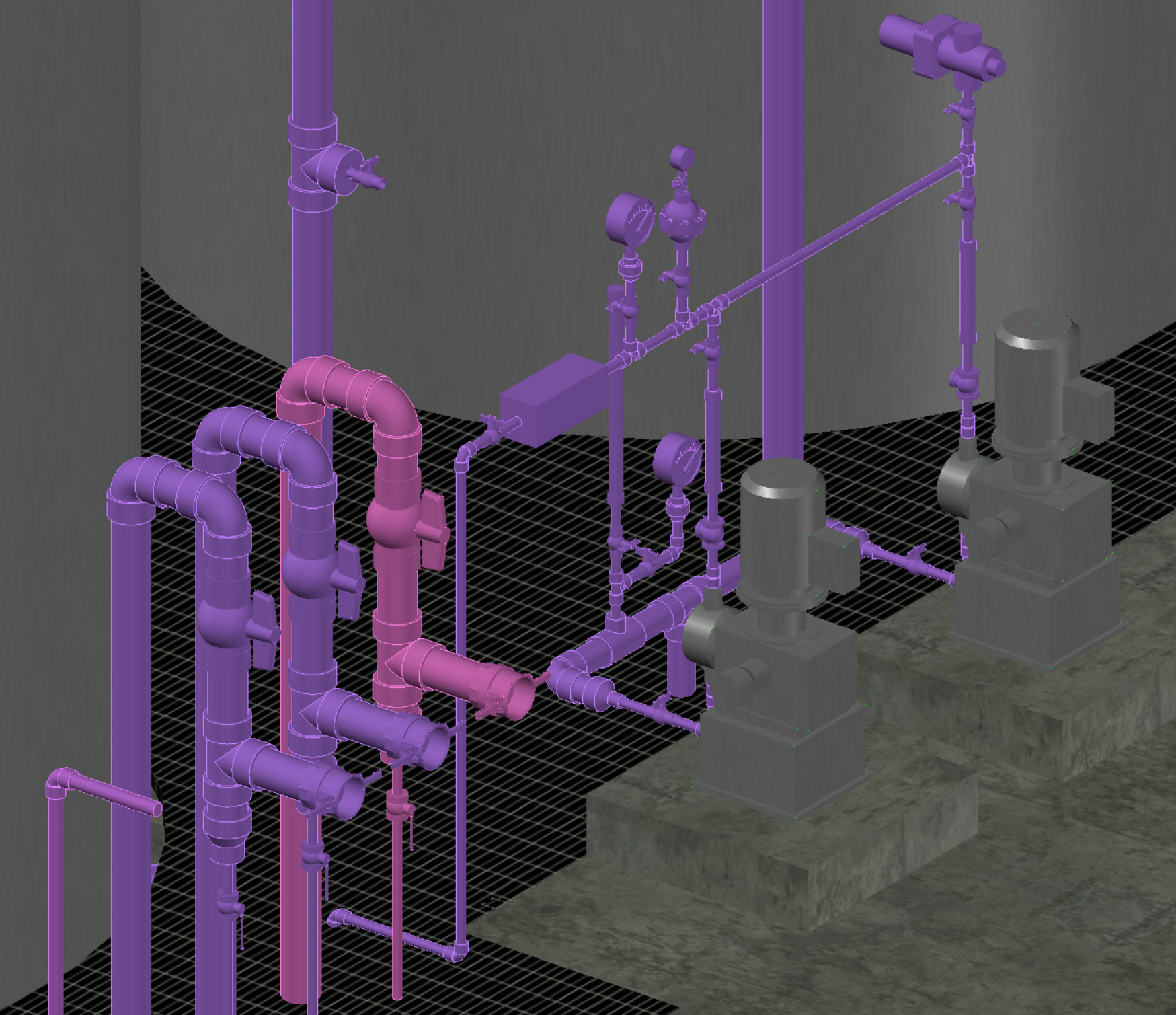
MECHANICAL
SODIUM HYPOCHLORITE SECTIONS - 3
PROJECT NO.: W253326OR
SCALE: AS SHOWN
DATE: AUGUST 2026

SHEET
M-303

\\EgnyteDrive\Conisor Files_-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-304 TREATMENT BUILDING ALUM SYSTEM SECTIONS.dwg M-304 7/29/2026 11:03 AM JUSTIN.DEUEL 24.3s (LMS Tech)



- NOTES:
1. ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION. EL 0.00 = FINISHED FLOOR EL 324.20.
 2. CHEMICAL METERING PUMPS AND APPURTENANCES SHOWN SCHEMATICALLY. PUMPS, PIPING, AND APPURTENANCES SHALL BE PROCURED AS A MANUFACTURED SKID PACKAGE FROM THE PUMP MANUFACTURER. SEE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE PIPING UP TO SKID CONNECTIONS.

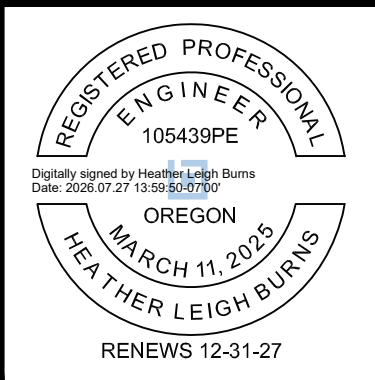


3D PERSPECTIVE
SCALE: N.T.S.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB DESIGNED
JLC DRAWN
HLB CHECKED



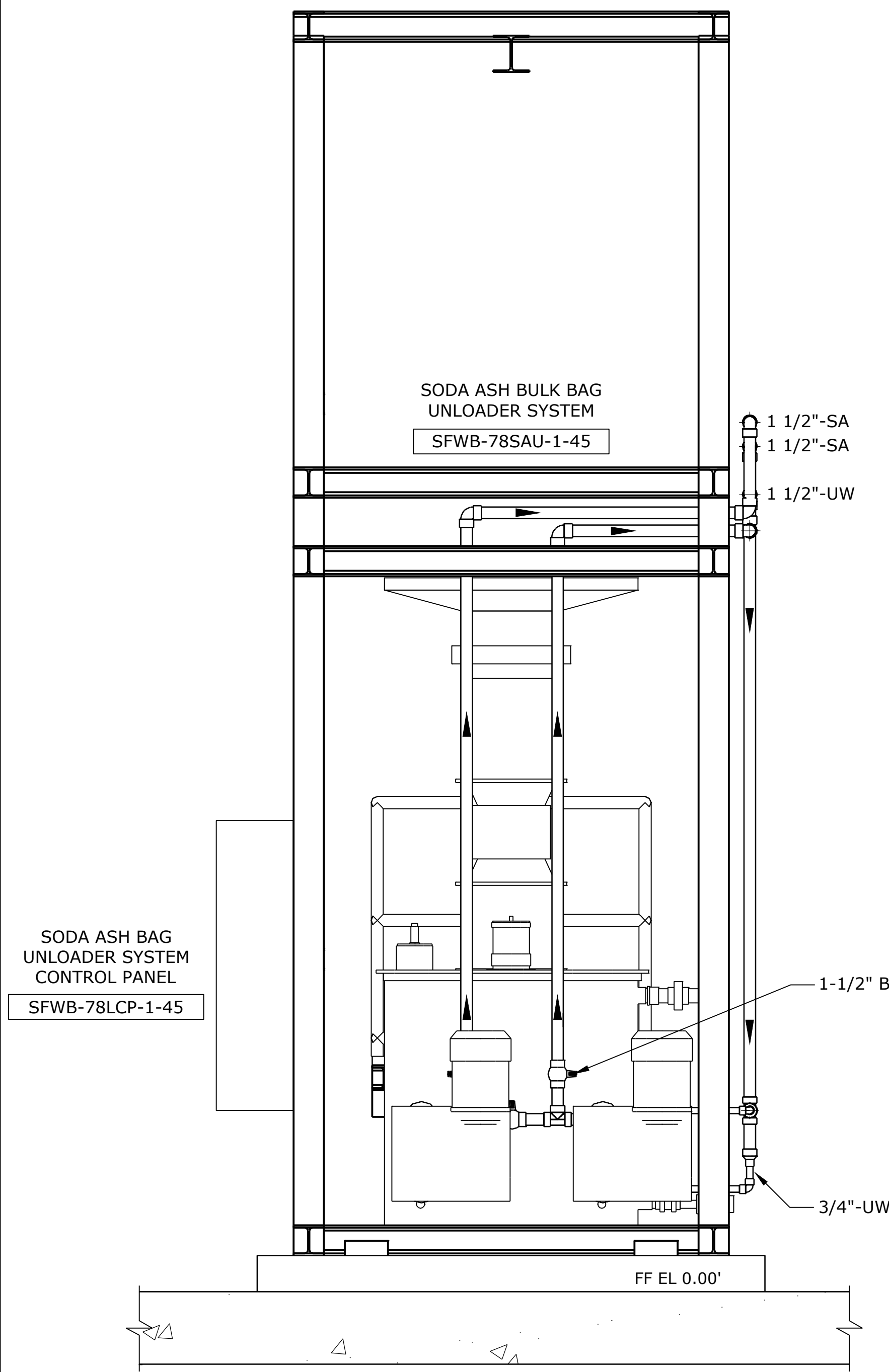
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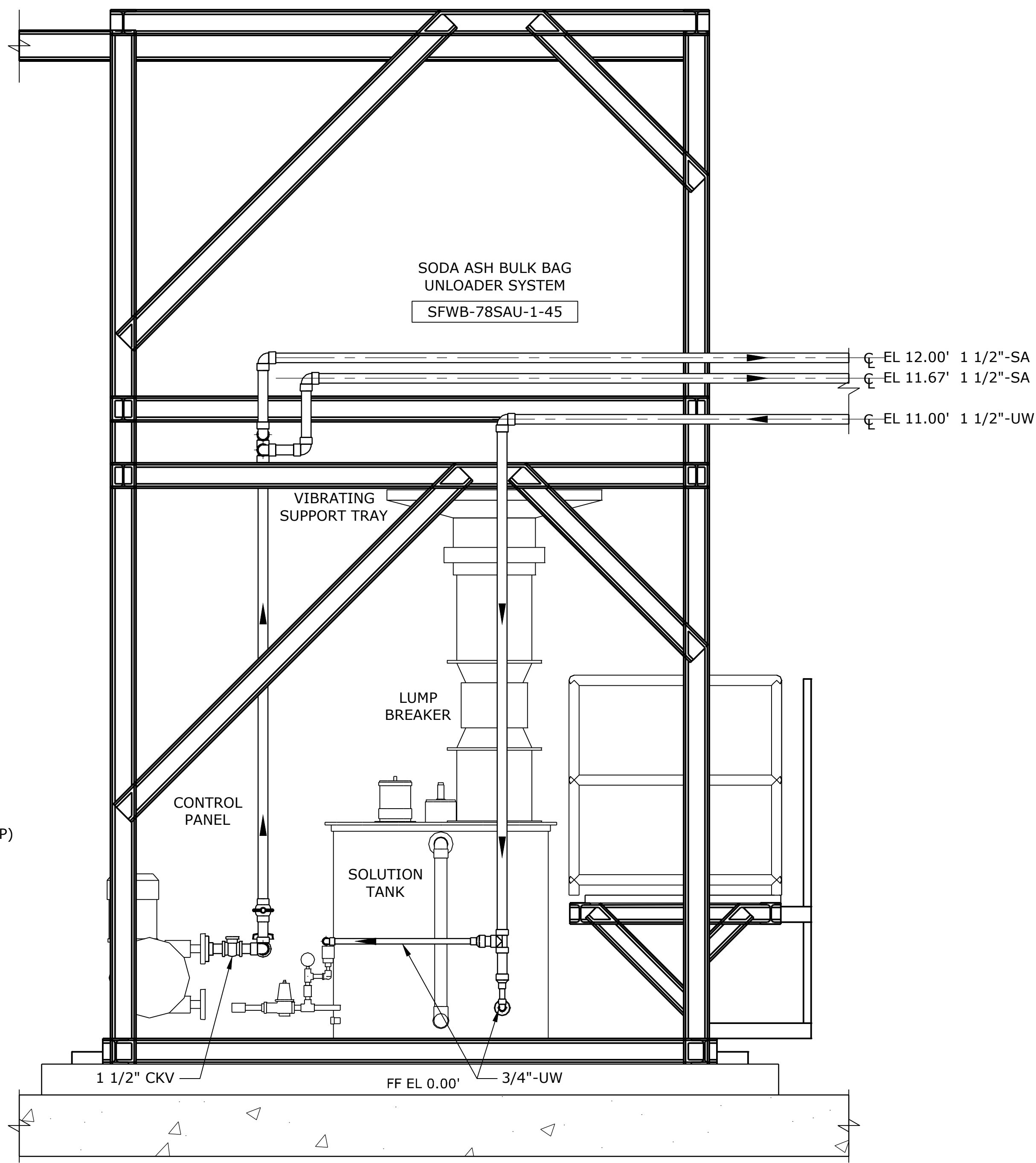
MECHANICAL
ALUM SYSTEM SECTIONS
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-304

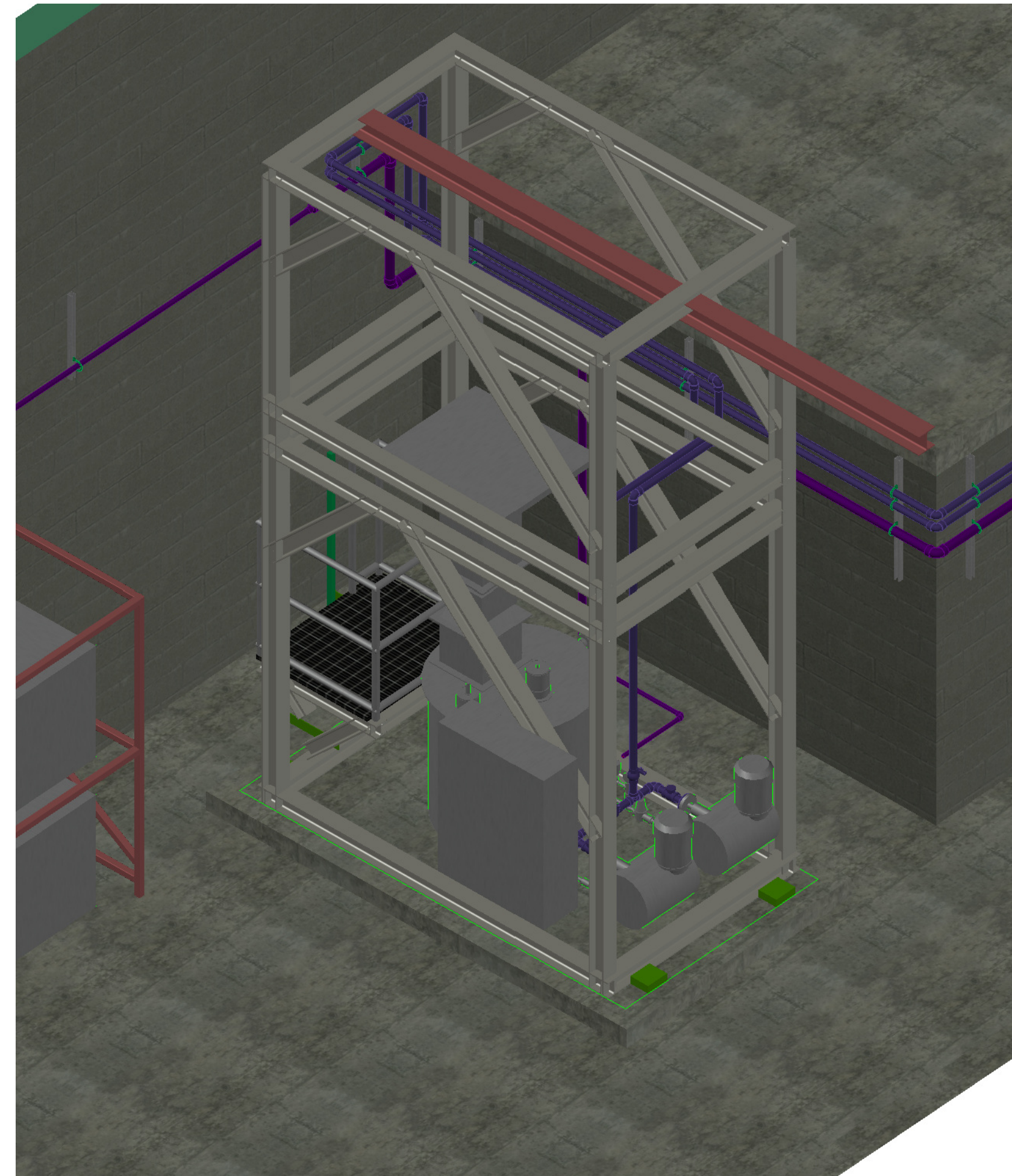
\\EgnyteDrive\Conisor Files_-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-306 TREATMENT BUILDING SODA ASH SECTIONS.dwg M-306 7/29/2026 11:04 AM JUSTIN.DEUEL 24.3s (LMS Tech)



SECTION
SCALE: 3/4" = 1'-0"
A
M-108



SECTION
SCALE: 3/4" = 1'-0"
B
M-108



3D PERSPECTIVE
SCALE: N.T.S.

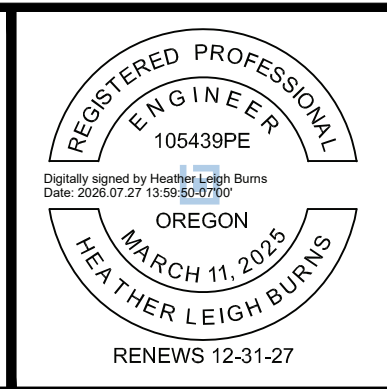
NOTE:

1. ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION. EL 0.00 = FINISHED FLOOR EL 324.20.
2. COMPONENTS AND DIMENSIONS NOTED ARE SHOWN FOR CONTRACTORS REFERENCE. ACTUAL EQUIPMENT VARIES PER MANUFACTURER.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB DESIGNED
JLC DRAWN
HLB CHECKED



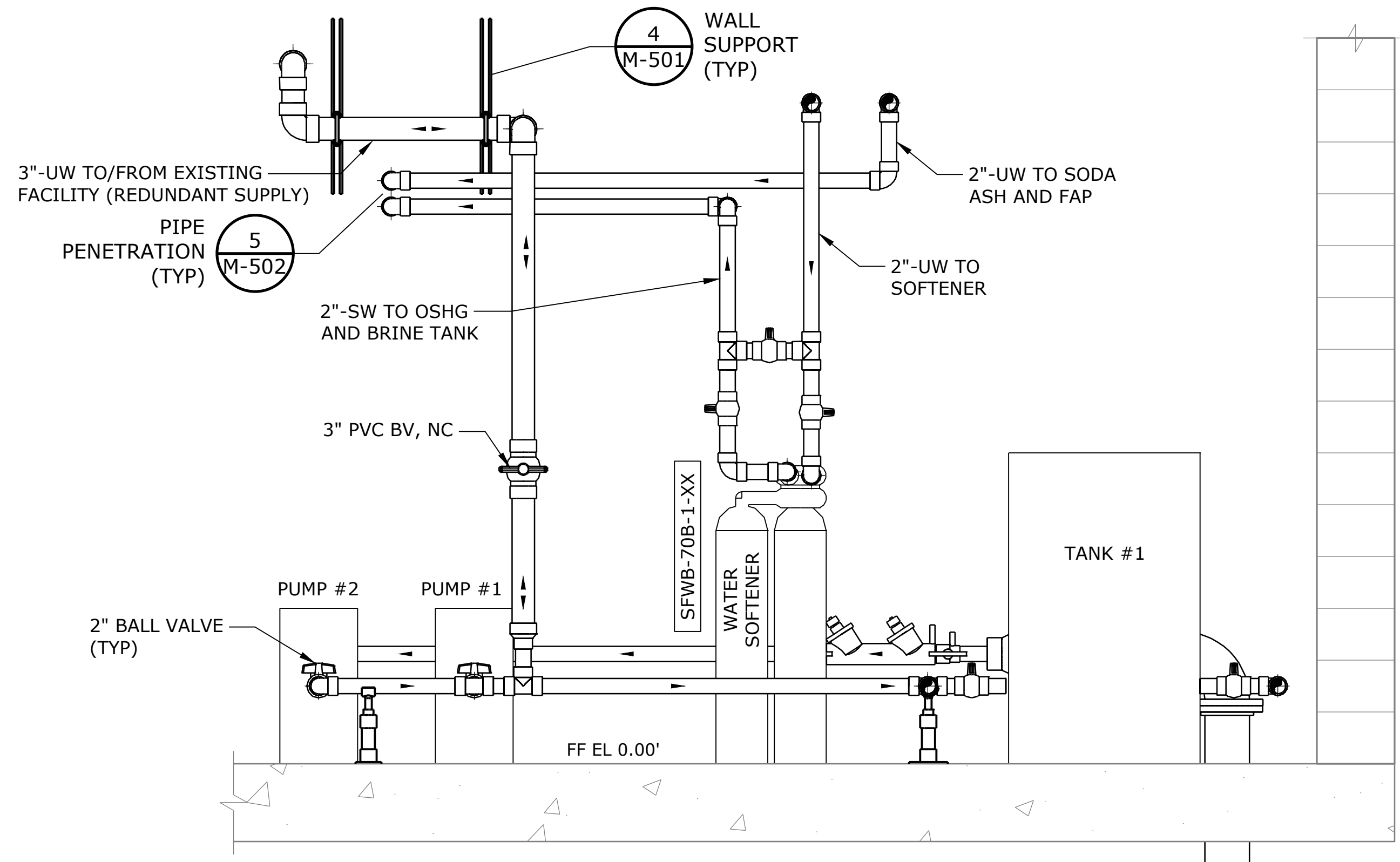
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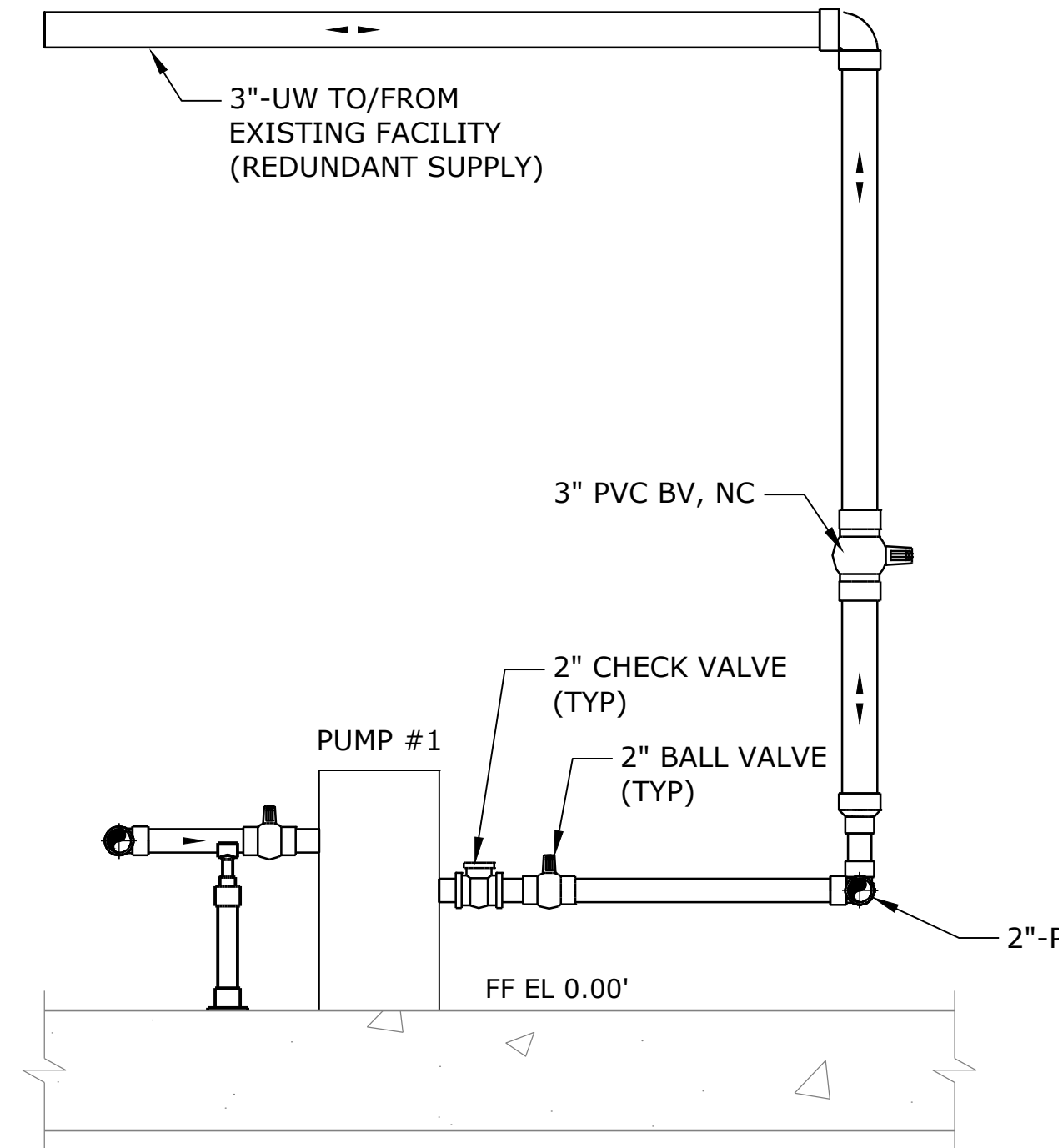
MECHANICAL			
SODA ASH FEED SYSTEM SECTIONS			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

SHEET
M-306

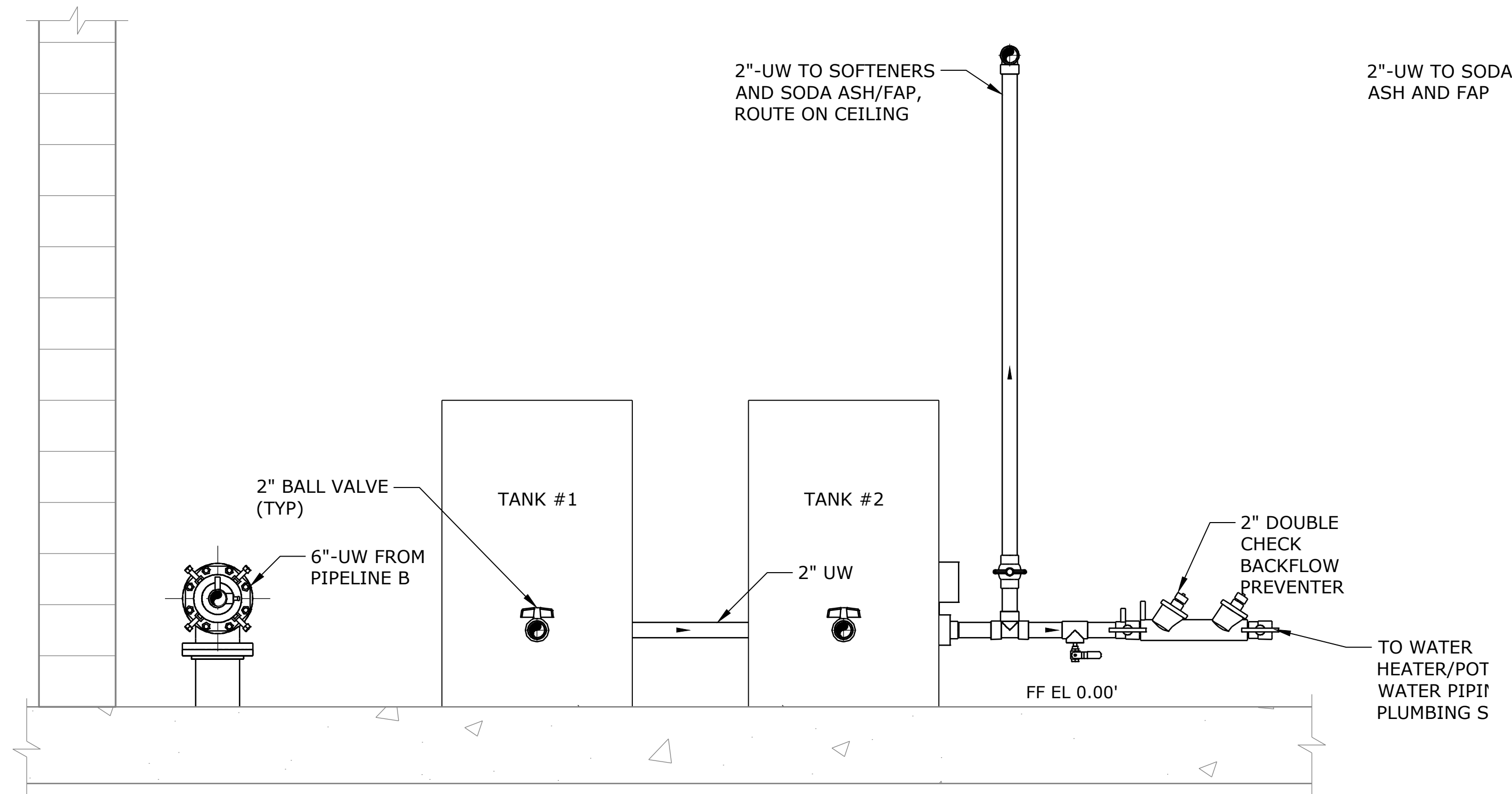
\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-307 MECHANICAL ROOM SECTIONS.dwg M-307 7/29/2026 11:04 AM JUSTIN.DEUEL 24.3s (LMS Tech)



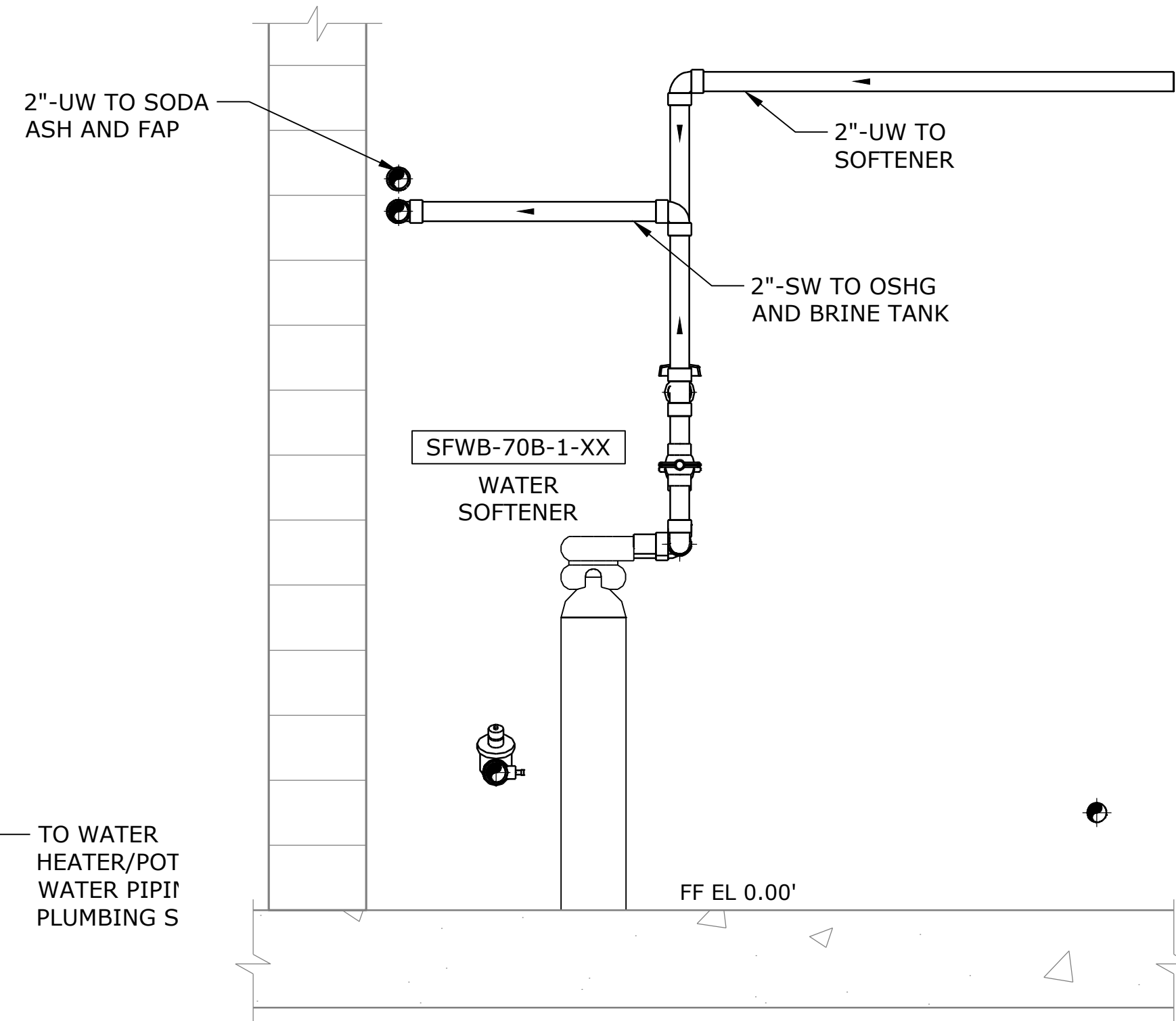
SECTION A
SCALE: 3/4" = 1'-0" M-109



SECTION B
SCALE: 3/4" = 1'-0" M-109



SECTION C
SCALE: 3/4" = 1'-0" M-109



SECTION D
SCALE: 3/4" = 1'-0" M-109

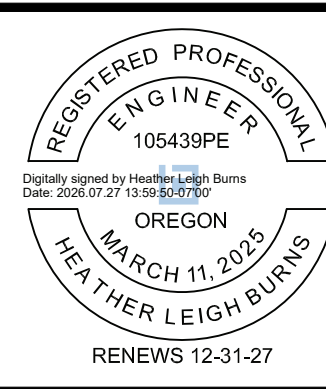
NOTES:

- ELEVATIONS SHOWN ARE RELATIVE TO FINISH FLOOR ELEVATION. EL 0.00 = FINISHED FLOOR EL 324.20.
- COMPONENTS AND DIMENSIONS NOTED ARE SHOWN FOR CONTRACTORS REFERENCE. ACTUAL EQUIPMENT VARIES PER MANUFACTURER.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

BR
DESIGNED
JLC
DRAWN
LHO
CHECKED



BID SET

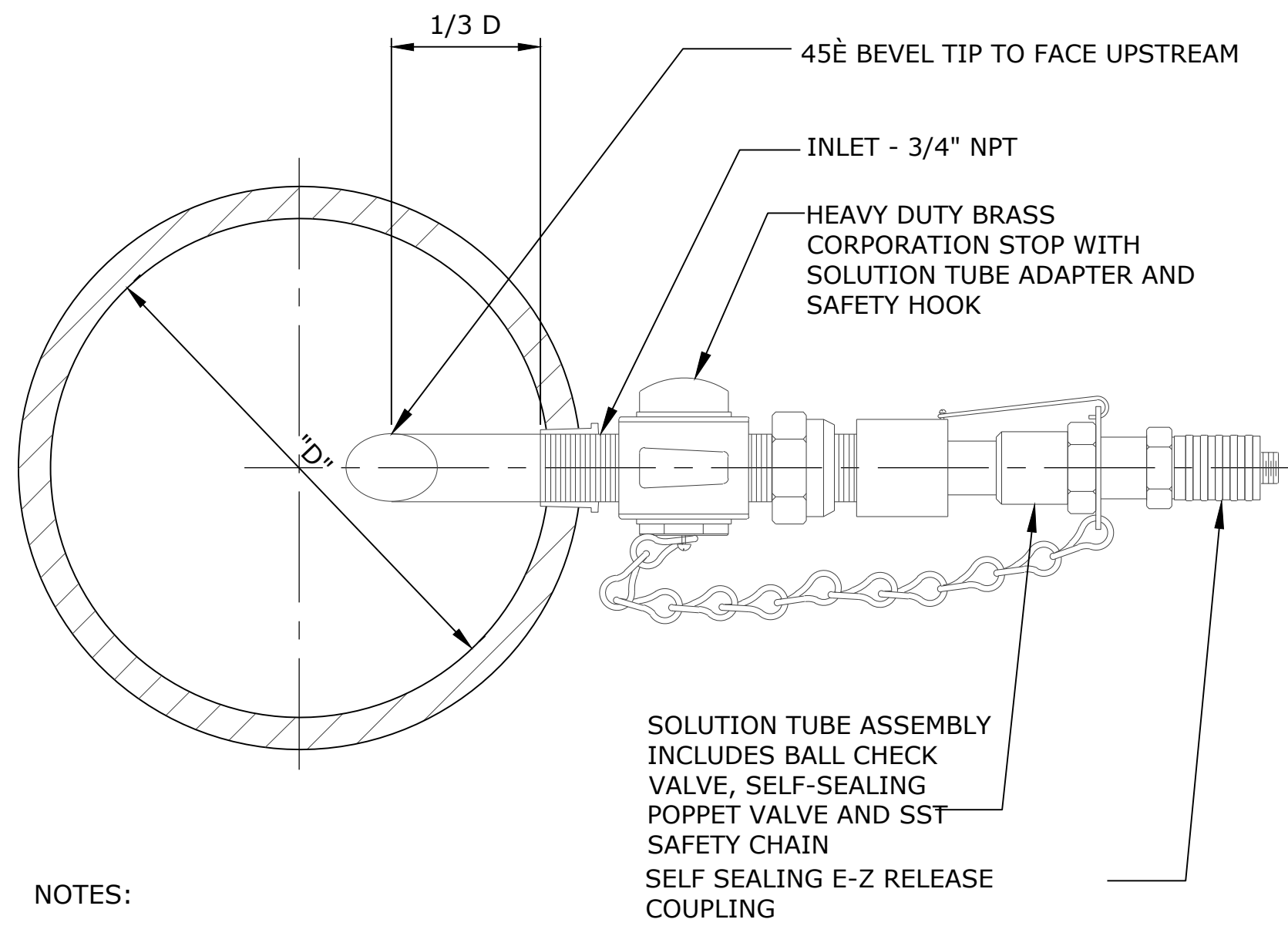


MECHANICAL			
MECHANICAL ROOM SECTIONS			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

SHEET

M-307

\\EgnyteDrive\Conсор Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-501-03 MECHANICAL DETAILS.dwg M-501 7/29/2026 11:05 AM JUSTIN.DEUEL 24.3s (LMS Tech)



NOTES:

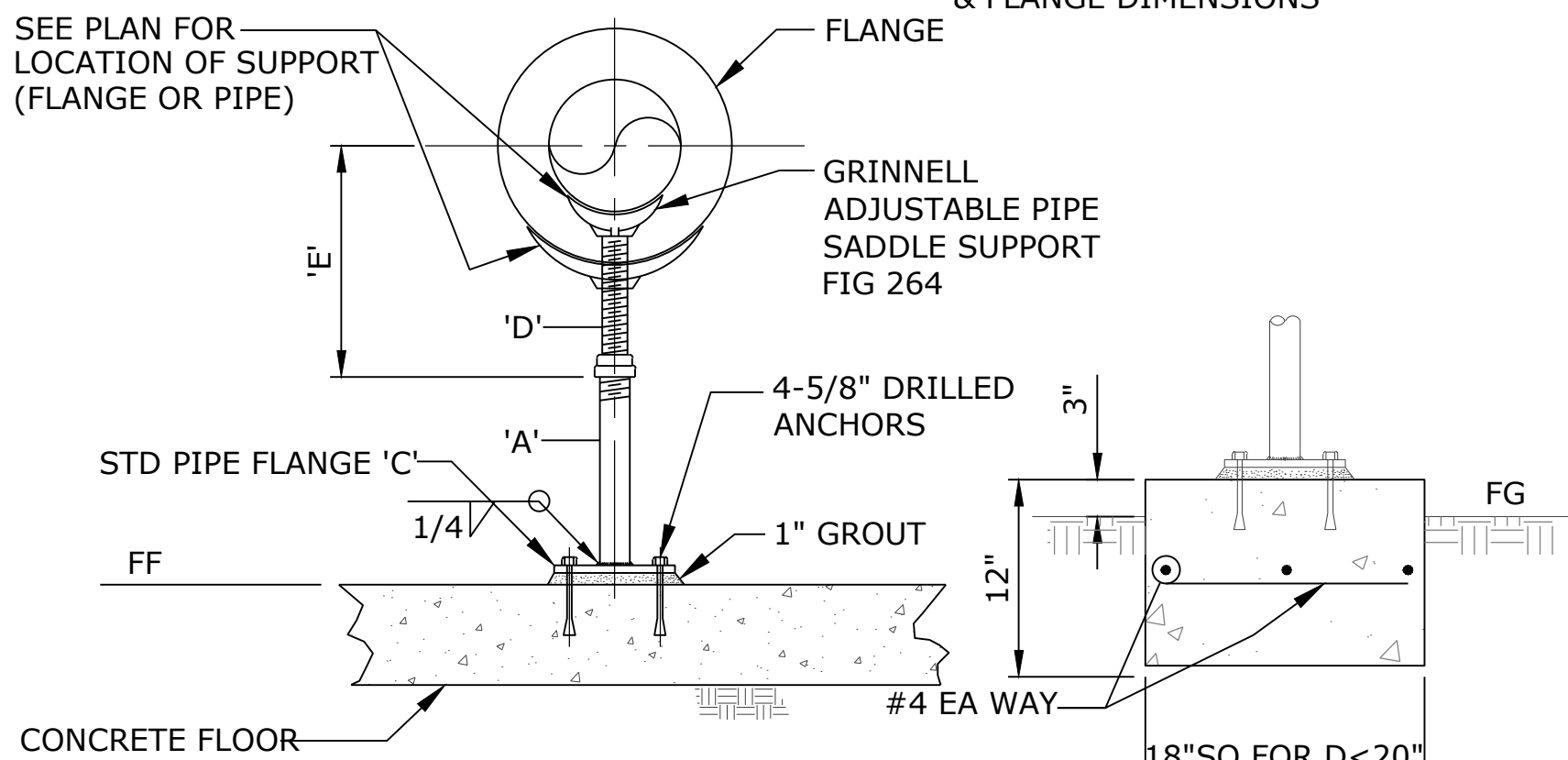
1. REFER TO SITE PIPING DWGS FOR "D"
2. INJECTION QUILL CONNECTION SHOWN HORIZONTAL FOR CLARITY. INSTALL AT 45° FROM VERTICAL
3. CHEMICAL INJECTION ASSEMBLIES WILL BE SAF-T-FLO MODEL EB-191, OR EQUAL.
4. SAMPLE TAPS WILL BE SAF-T-FLO MODEL EB-179 OR EQUAL.

CHEMICAL INJECTION AND SAMPLE TAP

SCALE: NTS

1
-

PIPE DIA (IN)	'A'	'B'	'C'	'D'	'E'	
					MIN	MAX
2 1/2	2 1/2	3 1/2	9	1 1/2	8	13
3	2 1/2	3 3/4	9	1 1/2	8 1/4	13 1/4
3 1/2	2 1/2	4	9	1 1/2	8 1/2	13 1/2
4	3	4 1/4	9	2 1/2	9 1/4	14
5	3	4 7/8	9	2 1/2	10	14 3/4
6	3	5 1/2	9	2 1/2	10 1/2	15 1/4
8	3	6 7/8	9	2 1/2	11 3/4	16 1/2
10	3	8 1/2	9	2 1/2	13 1/2	18 1/4
12	3	9 15/16	9	2 1/2	15	19 3/4
14	4	10 15/16	11	3	16 1/4	20 3/4
16	4	12 3/8	11	3	17 3/4	22 1/4
18	6	13 7/8	13 1/2	3 1/2	19 1/2	24
20	6	15 3/8	13 1/2	3 1/2	21	25 1/2
24	6	17 15/16	13 1/2	4	23 3/4	28 1/4
30	6	21 5/16	17 1/2	4	22	26 3/4

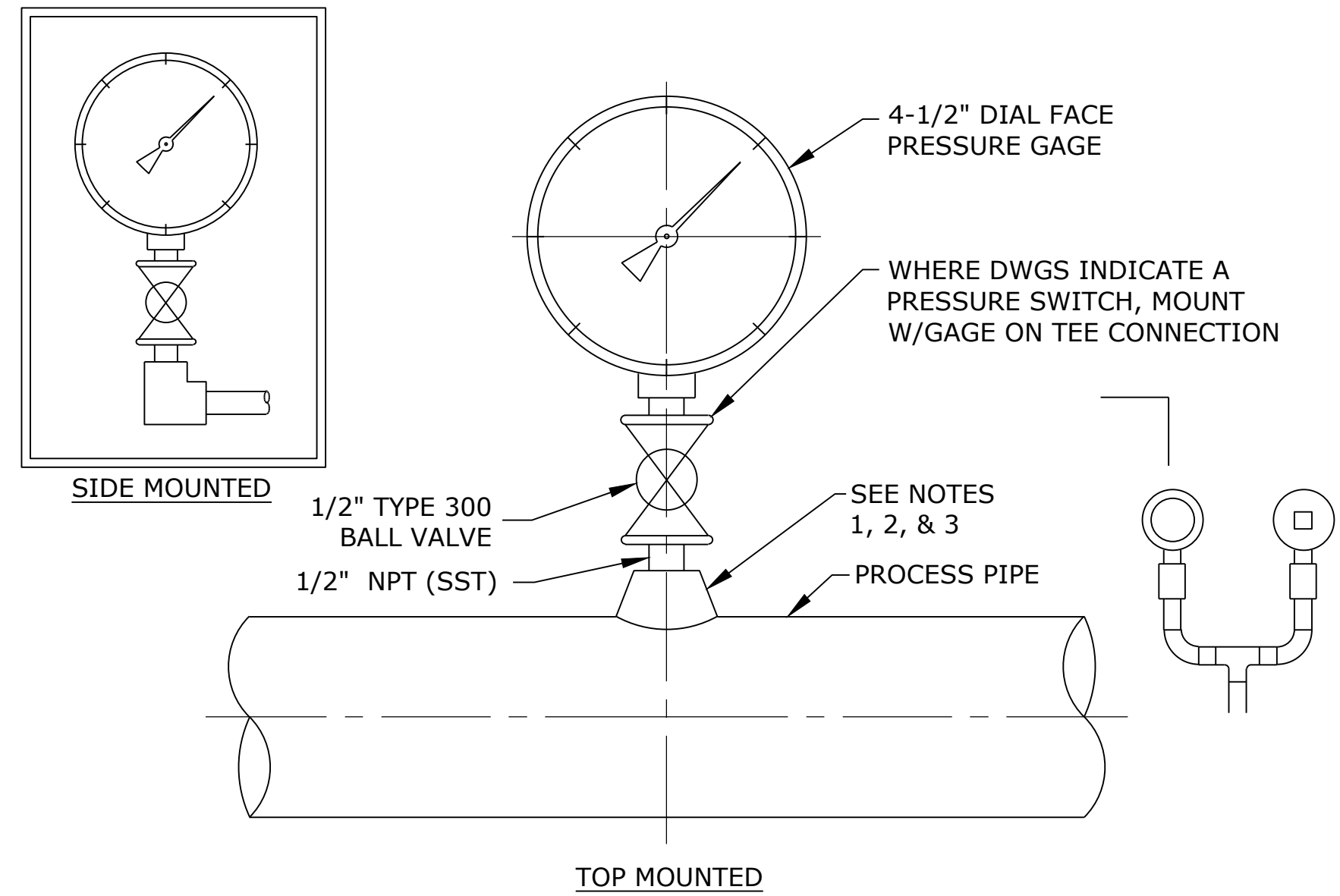


PIPE SUPPORT

SCALE: NTS

2
-

1. PROVIDE HALF ROUND RIGID INSULATION & INSULATION PROTECTION SHIELD, SIMILAR TO GRINNELL FIG 167 OR B-LINE B-3151, WHEN PIPING IS INSULATED
2. PROVIDE NEOPRENE WAFFLE ISOLATION PAD SIMILAR TO MASON TYPE 'W' OR KORFUND KORPAD 40, UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT
3. SEE TABLE FOR BASE, HEIGHT, & FLANGE DIMENSIONS



NOTES:

1. FOR STL, GALV & PVC 2-1/2" & SMALLER USE A BUSHING IN A TEE
2. FOR DI & FRP ALL SIZES, USE PIPE SADDLE W/BUSHING
3. FOR STL & SST PIPES 3" & LARGER, & PRESSURE VESSELS, USE THRED-O-LET AS SHOWN
4. PROVIDE SNUBBER FOR POSITIVE DISPLACEMENT PUMP INSTALLATIONS

PRESSURE GAUGE MOUNTING

SCALE: NTS

3
-

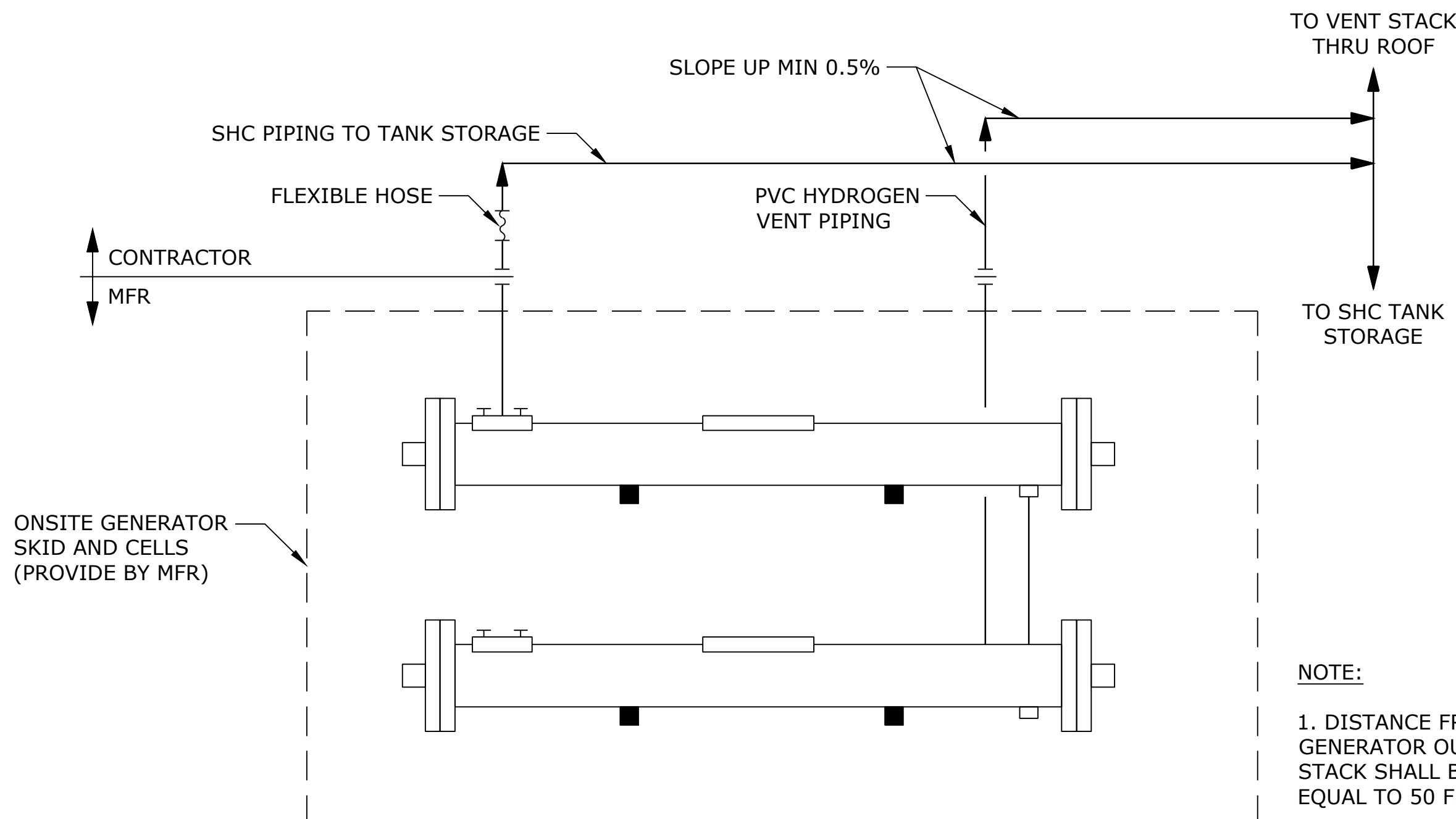
NOTES:

1. SEE PLANS FOR NUMBER AND MATERIAL OF PIPES.
 2. FOR INSTALLATION REQUIRING A BRACKET LONGER THAN 18", USE UNISTRUT 2540 SERIES, KIN-LINE 323, OR EQUAL UP TO 36".
- UNISTRUT P1100, KIN-LINE 4112, OR EQUAL 1-5/8" STEEL CHANNEL MOUNTED ON CONC WALL OR STEEL COLUMN. PROVIDE MULTIPLE CHANNELS WHEN NEEDED FOR ATTACHED EQUIPMENT OR PIPE FLANGES TO CLEAR WALL OR FLOOR. ALTERNATIVELY, PROVIDE HORIZONTAL BRACKET AS SHOWN BELOW.
- NEOPRENE ISOLATING SLEEVE AT EACH CLAMP (FOR METAL PIPES)
- 3" MIN, PIPE SIZES 4" AND SMALLER; 6" MIN, PIPE SIZES LARGER THAN 4".
- 1-5/8" BRACKET FOR MULTIPLE PIPES: UNISTRUT P2231, P2232, OR P2233; KIN-LINE 322, OR EQUAL. REQUIRED FOR PIPES 4" AND LARGER.
- 18" MAX SEE NOTE 2
- PIPE CLAMP, TYPICAL; UNISTRUT P1109 SERIES, KIN-LINE 412, OR EQUAL. FOR PIPES SMALLER THAN 4".
- 5/8"Ø DRILLED ANCHORS @ MAX 2'-0" OC, 5/8"Ø MACHINE BOLT INTO STEEL
- 4" MAX EACH END
- 3" MIN AT EACH END

SINGLE OR STACKED WALL PIPE SUPPORT

SCALE: NTS

4
-



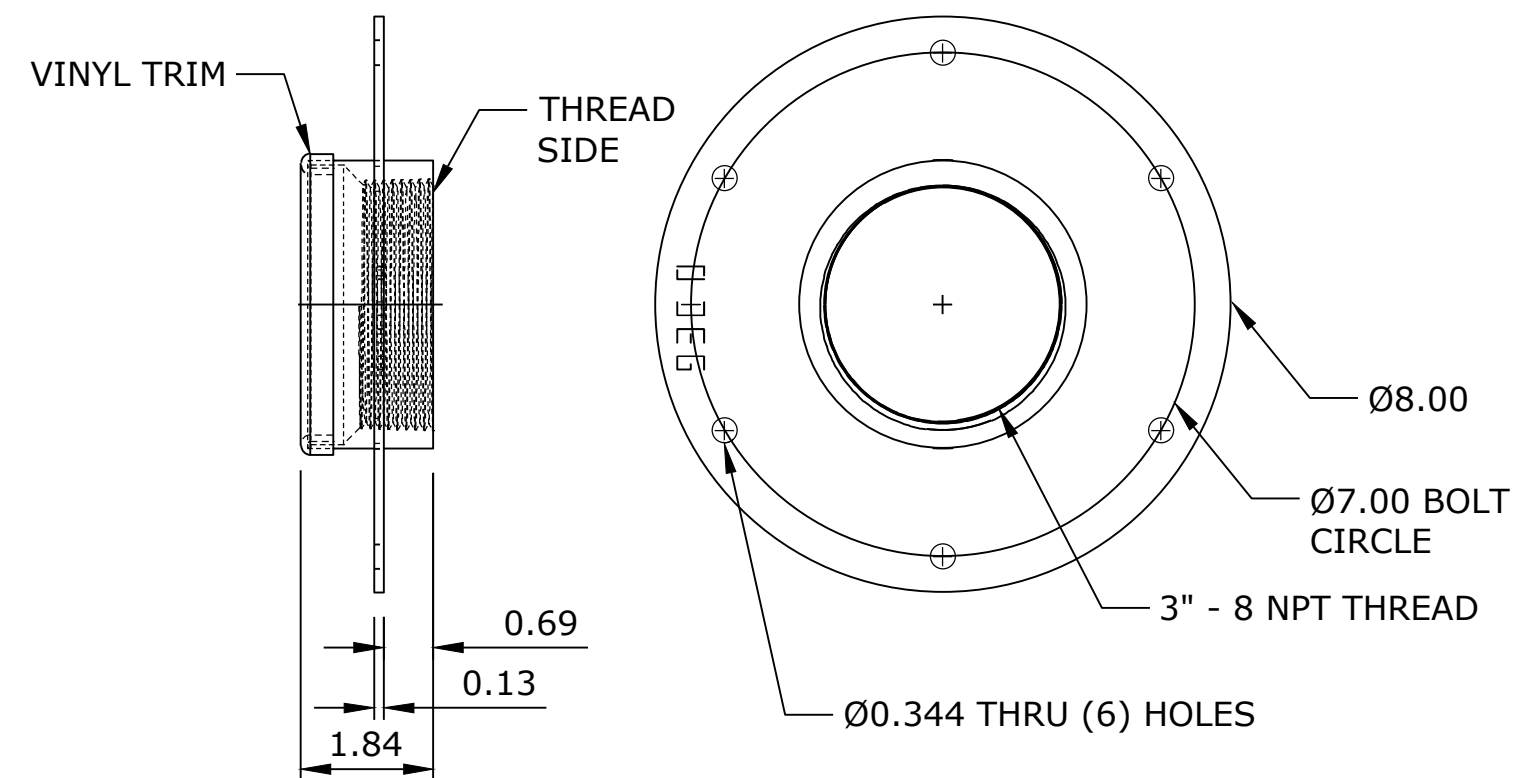
SODIUM HYPOCHLORITE VENT PIPING SCHEMATIC

SCALE: NTS

5
M-503

NOTE:

1. DISTANCE FROM SODIUM HYPO GENERATOR OUTLET AND VENT STACK SHALL BE LESS THAN OR EQUAL TO 50 FEET.



BRINE LEVEL SENSOR TANK MOUNT DETAIL

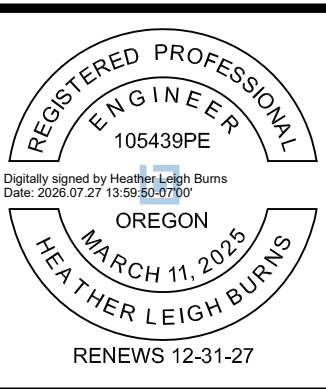
SCALE: NTS

6
M-504

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED



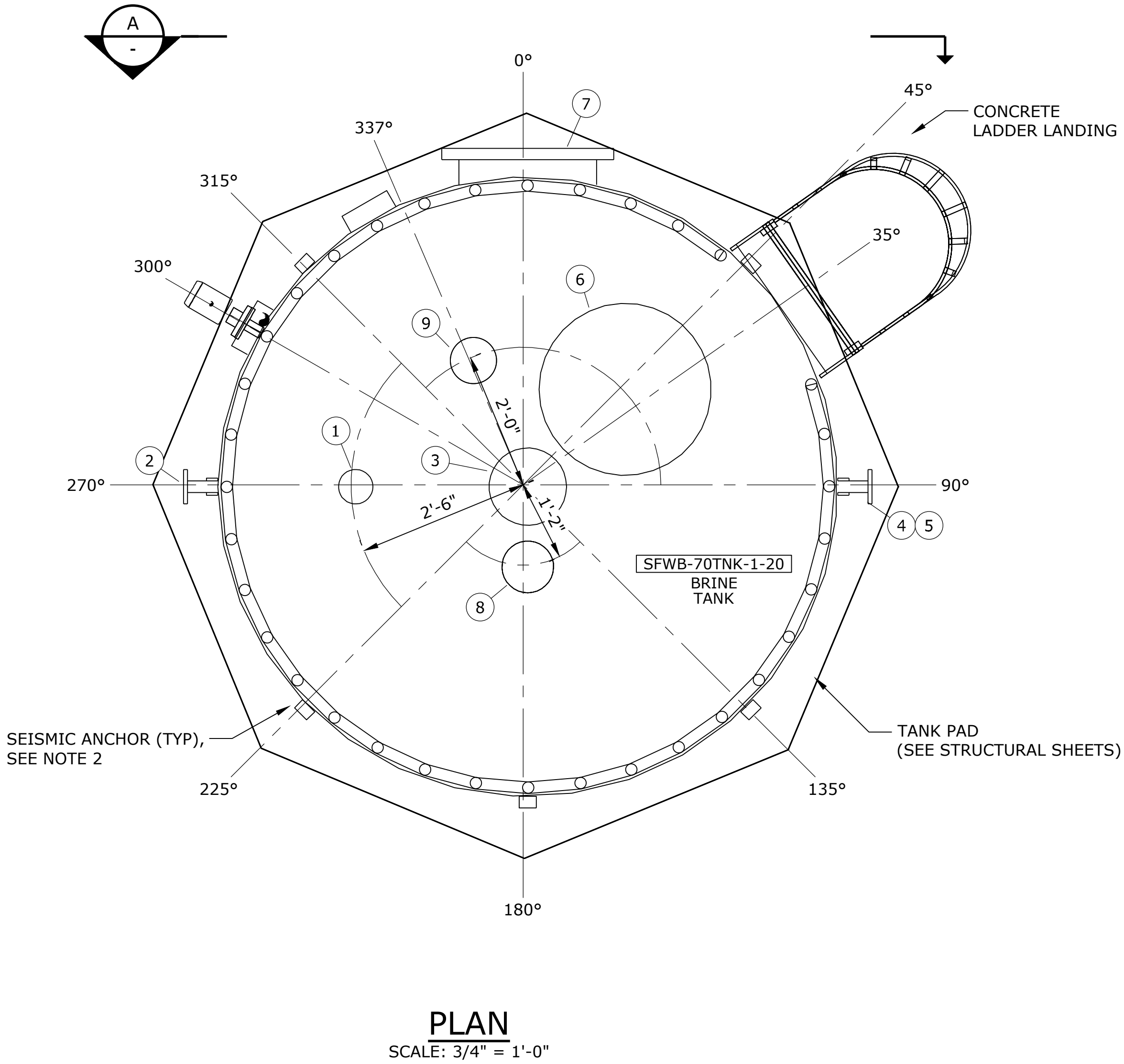
BID SET



MECHANICAL			
MECHANICAL DETAILS			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

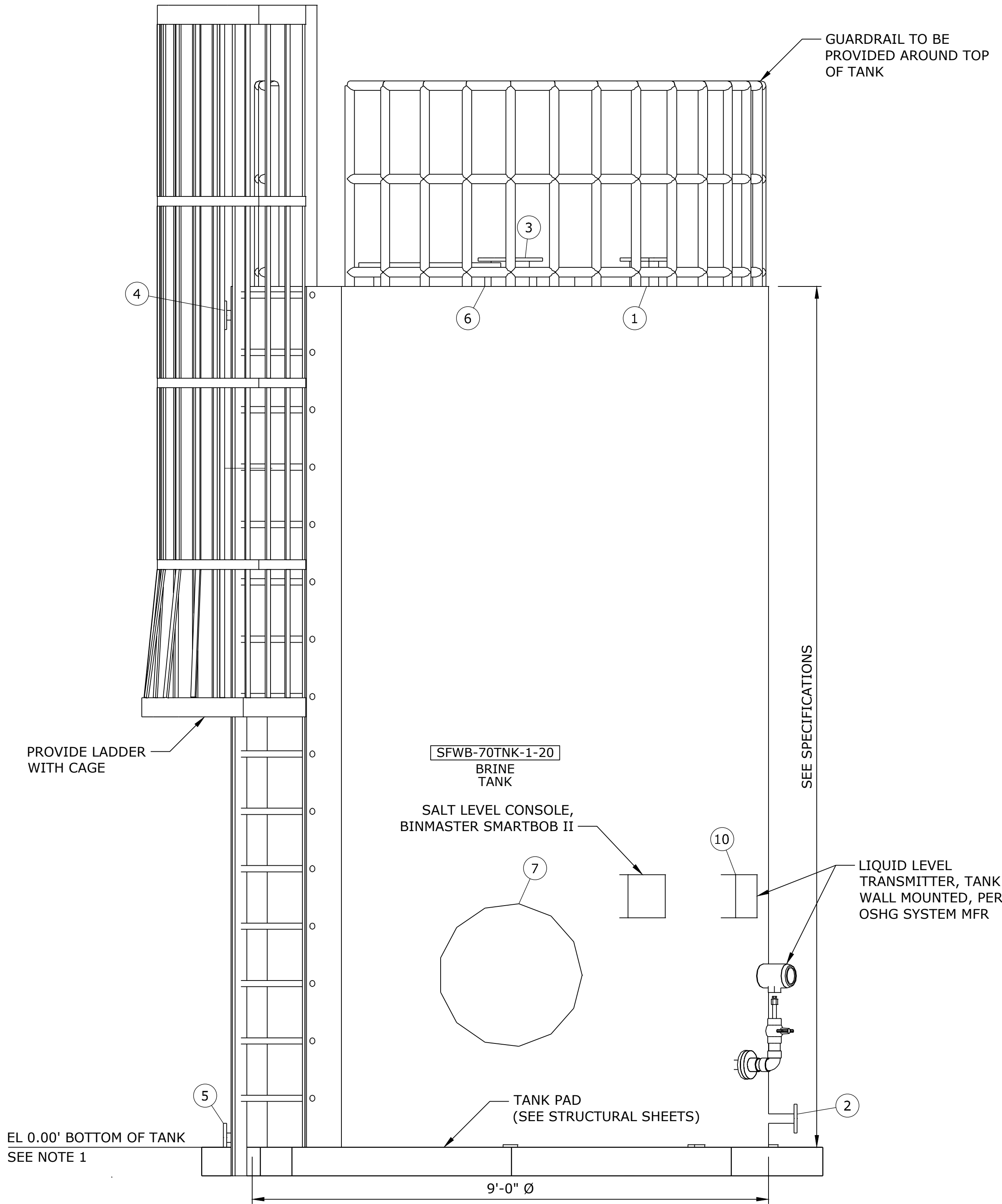
SHEET
M-501

\\EgnyteDrive\Conisor Files_-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-504 BRINE TANK DETAILS.dwg M-504 7/29/2026 11:05 AM JUSTIN DEUEL 24.3s (LMS Tech)



NOTE: TANK MATERIAL IS FRP

TANK NOZZLE SCHEDULE (SFWB-70TNK-1-20)					
NO.	ITEM	DIAMETER	FITTING	ROTATION	CL ELEVATION (FROM TANK BOTTOM)
1	INLET	2"	FLANGED	270 DEG	TOP
2	OUTLET	2"	FLANGED	270 DEG	6"
3	VENT	8"	FLANGED	CENTER	TOP
4	OVERFLOW	2"	FLANGED	90 DEG	14'-6"
5	DRAIN	2"	FLANGED	90 DEG	2"
6	MANWAY	24"		45 DEG	TOP
7	MANWAY	24"		0 DEG	3'-0"
8	FILL LINE	4"	FLANGED	180°	TOP
9	BRINE LEVEL SENSOR	3"	THREADED	337°	TOP
10	LEVEL TRANSMITTER	PER MFR	PER MFR	300°	WALL, PER MFR



- NOTES:
- ELEVATIONS SHOWN ARE RELATIVE TO THE BOTTOM OF TANK. EL 0.00 = 324.8.
 - TANK MANUFACTURER TO PROVIDE SEISMIC ANCHORS AND CABLES WITH STAMPED STRUCTURAL CALCULATIONS.
 - SEE DET 6, SHT M-501 FOR BRINE LEVEL SENSOR TANK MOUNT DETAIL.

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:00Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWES 12-31-27

BID SET

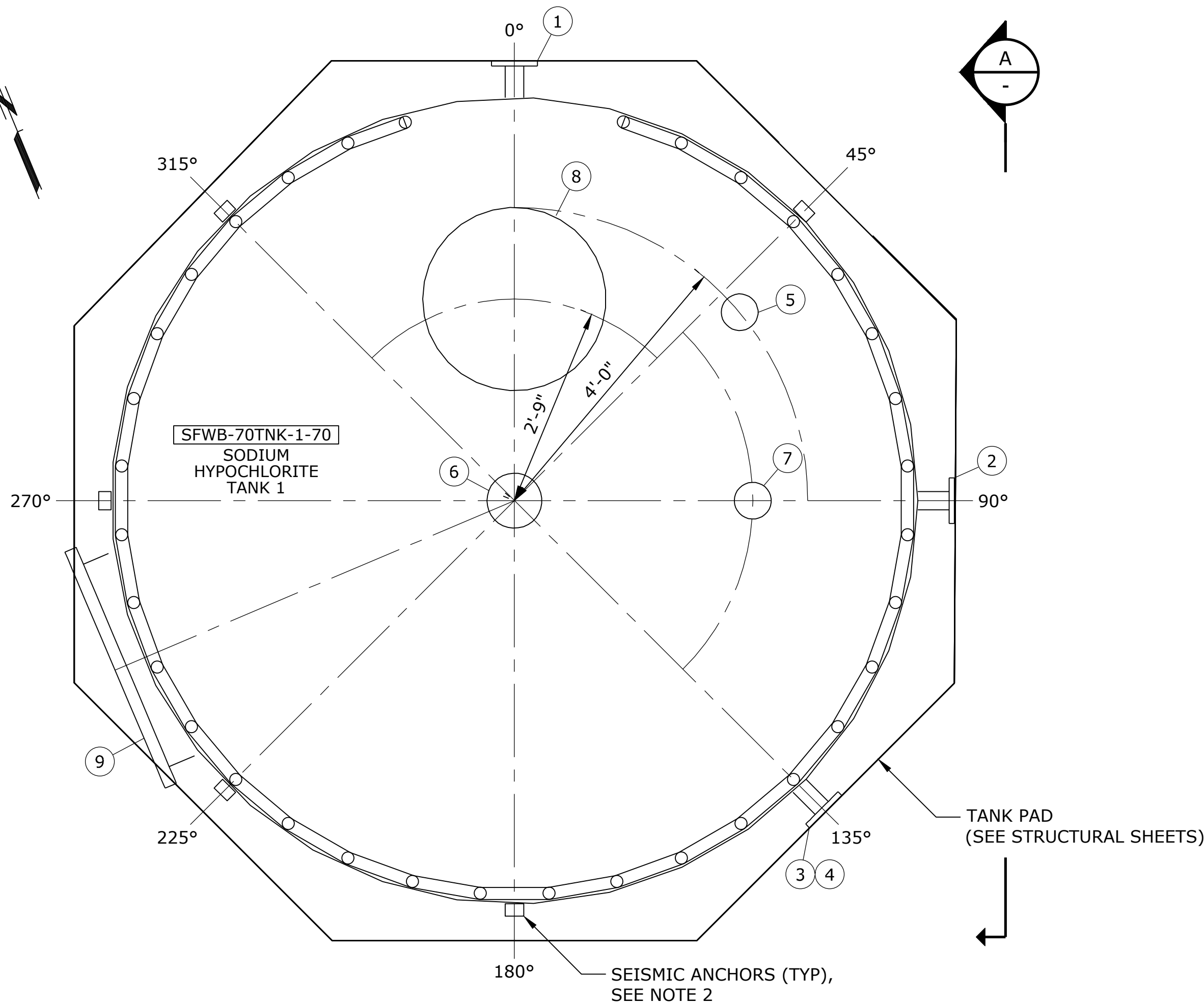
consor
Stantec

South Fork
WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
BRINE TANK DETAILS
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-504

\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-505 SODIUM HYPOCHLORITE TANK DETAILS.dwg M-505 7/29/2026 11:05 AM JUSTIN.DEUEL 24.3s (LMS Tech)



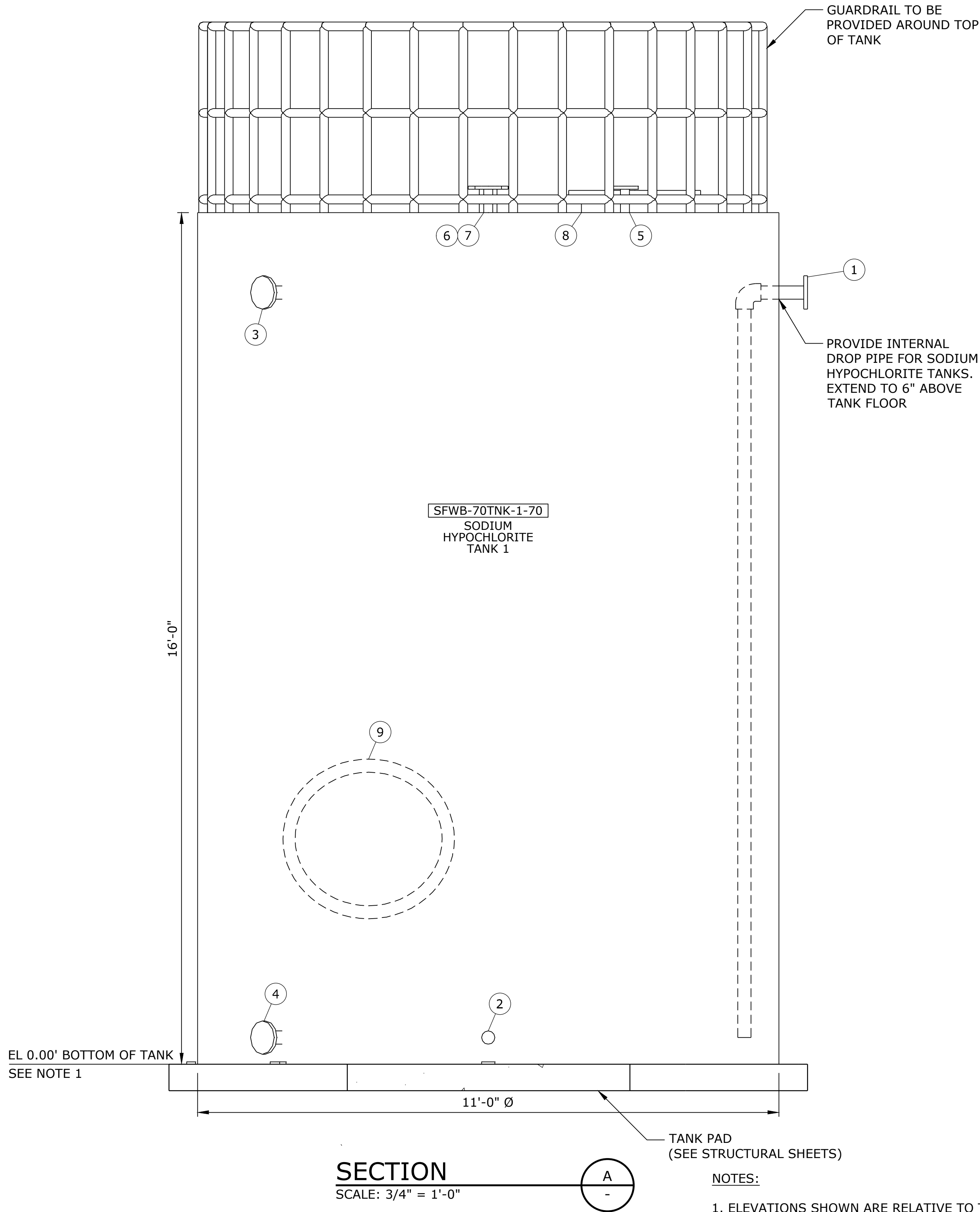
PLAN
SCALE: 3/4" = 1'-0"

NOTE: TANK MATERIAL IS FRP

TANK NOZZLE SCHEDULE (SFWB-70TNK-1-70)					
NO.	ITEM	DIAMETER	FITTING	ROTATION	CL ELEVATION (FROM TANK BOTTOM)
1	INLET	3"	FLANGED	0 DEG	14'-6"
2	OUTLET	3"	FLANGED	90 DEG	6"
3	OVERFLOW	3"	FLANGED	135 DEG	14'-6"
4	DRAIN	3"	FLANGED	135 DEG	6"
5	AIR INLET	2"	FLANGED	51.25 DEG	TOP
6	VENT	4"	FLANGED	CENTER	TOP
7	LEVEL TRANSMITTER	2"	FLANGED	90 DEG	TOP
8	MANWAY	24"		0 DEG	TOP
9	SIDE MANWAY	30"		247 DEG	5'-6"

NOTE: TANK MATERIAL IS FRP

TANK NOZZLE SCHEDULE (SFWB-70TNK-2-70)					
NO.	ITEM	DIAMETER	FITTING	ROTATION	CL ELEVATION (FROM TANK BOTTOM)
1	INLET	3"	FLANGED	0 DEG	14'-6"
2	OUTLET	3"	FLANGED	270 DEG	6"
3	OVERFLOW	3"	FLANGED	225 DEG	14'-6"
4	DRAIN	3"	FLANGED	225 DEG	6"
5	AIR INLET	2"	FLANGED	308.75 DEG	TOP
6	VENT	4"	FLANGED	CENTER	TOP
7	LEVEL TRANSMITTER	2"	FLANGED	270 DEG	TOP
8	MANWAY	24"		0 DEG	TOP
9	SIDE MANWAY	30"		247 DEG	5'-6"



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

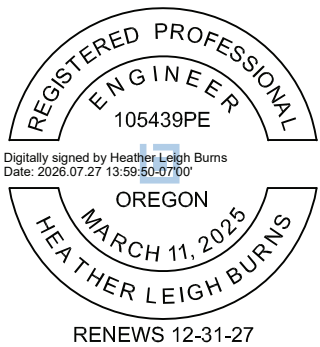
NOTES:

- ELEVATIONS SHOWN ARE RELATIVE TO THE BOTTOM OF TANK. EL 0.00 = 321.8.
- TANK MANUFACTURER TO PROVIDE SEISMIC ANCHORS AND CABLES WITH STAMPED STRUCTURAL CALCULATIONS.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED



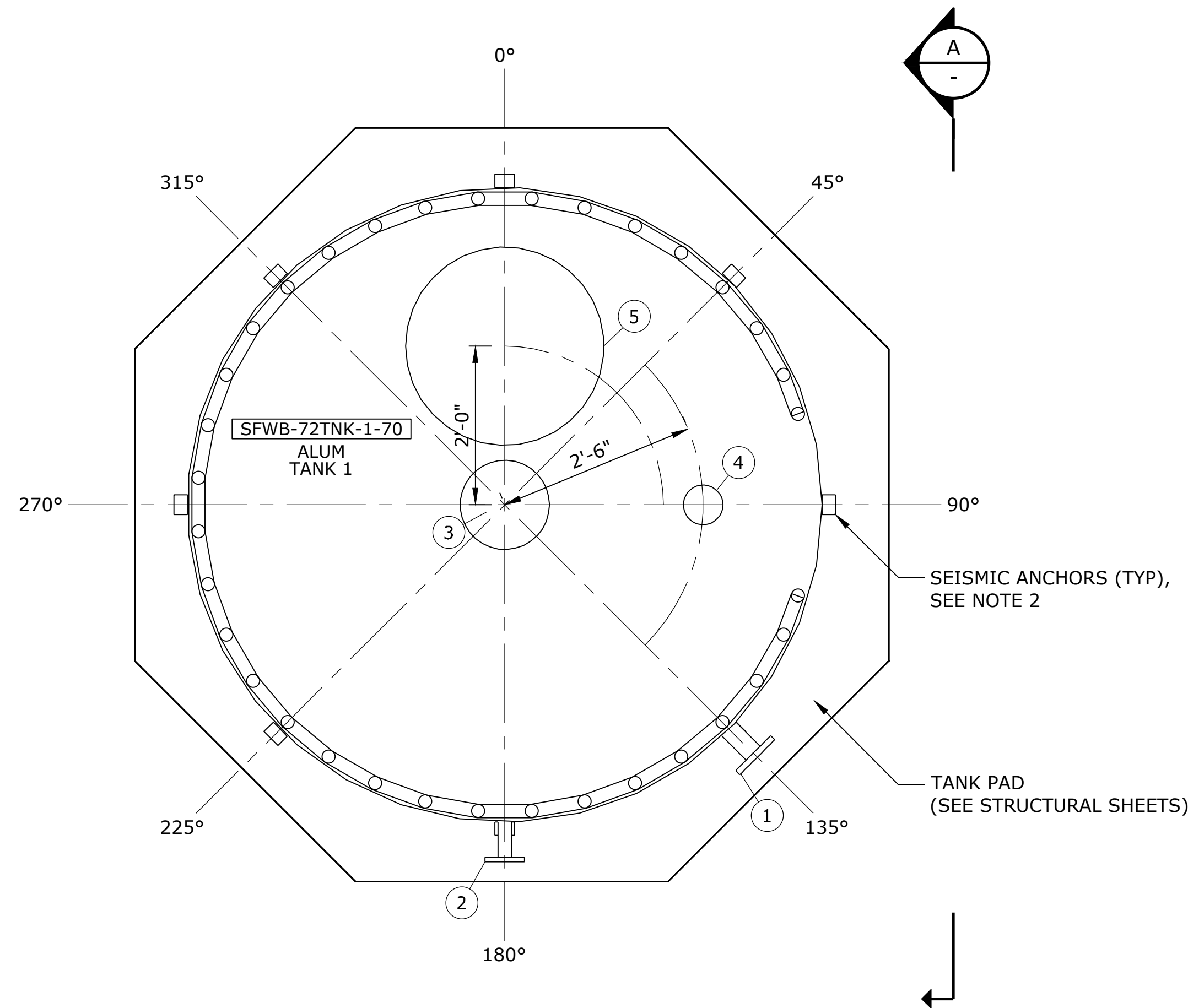
BID SET



MECHANICAL			
SODIUM HYPOCHLORITE TANK DETAILS			
PROJECT NO.:	W253326OR	SCALE:	AS SHOWN
DATE:	AUGUST 2026		

SHEET
M-505

\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-506 ALUM TANK DETAILS.dwg M-506 7/29/2026 11:05 AM JUSTIN.DEUEL 24.3s (LMS Tech)



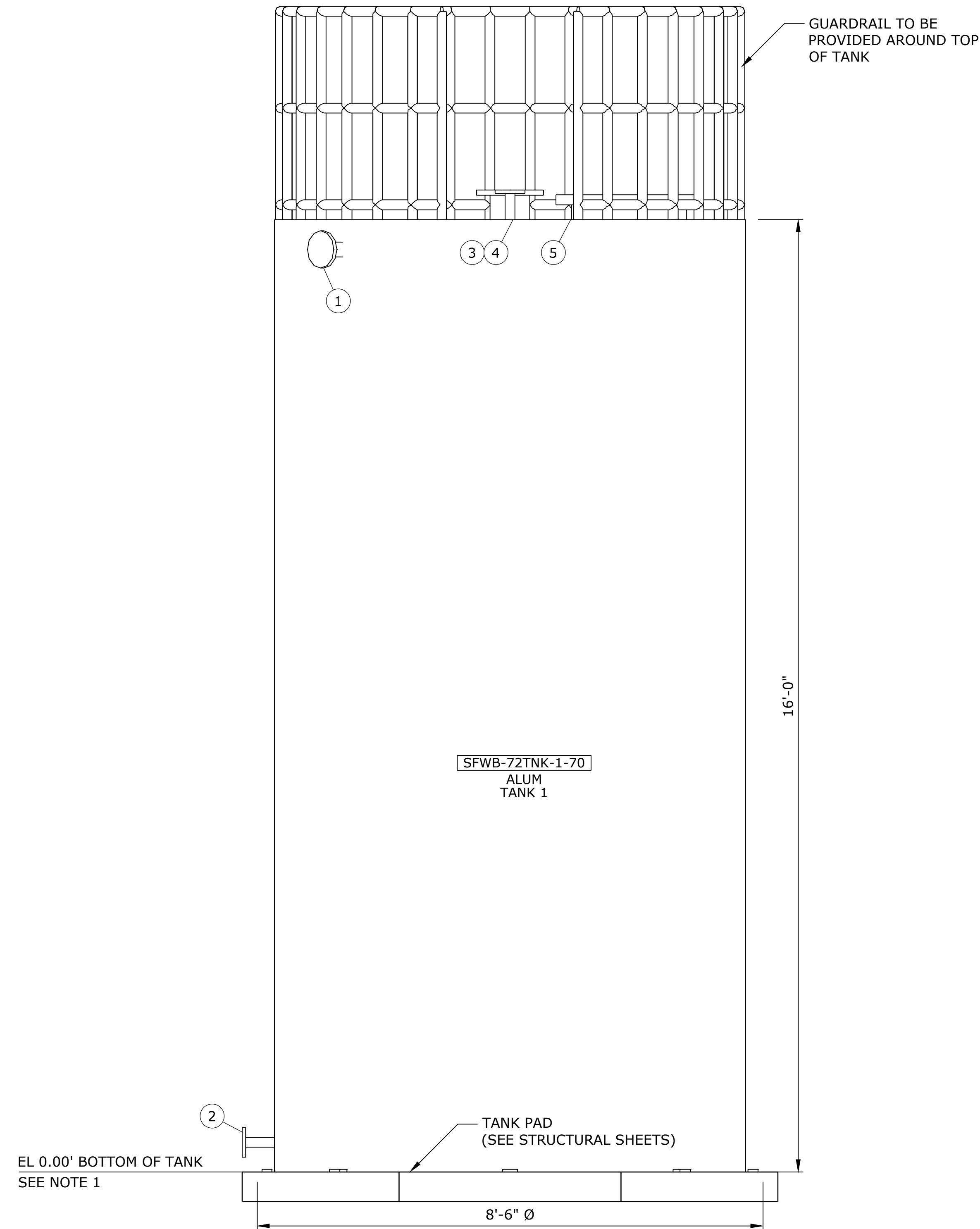
PLAN
SCALE: 3/4" = 1'-0"

NOTE: TANK MATERIAL IS XLPE

TANK NOZZLE SCHEDULE (SFWB-72TNK-1-70)					
NO.	ITEM	DIAMETER	FITTING	ROTATION	CL ELEVATION (FROM TANK BOTTOM)
1	INLET	3"	FLANGED	135 DEG	14'-6"
2	OUTLET	3"	FLANGED	180 DEG	6"
3	VENT	8"	FLANGED	CENTER	TOP
4	LEVEL TRANSMITTER	2"	FLANGED	90 DEG	TOP
5	MANWAY	24"		0 DEG	TOP

NOTE: TANK MATERIAL IS XLPE

TANK NOZZLE SCHEDULE (SFWB-72TNK-2-70)					
NO.	ITEM	DIAMETER	FITTING	ROTATION	CL ELEVATION (FROM TANK BOTTOM)
1	INLET	3"	FLANGED	45 DEG	15'-6"
2	OUTLET	3"	FLANGED	0 DEG	6"
3	VENT	8"	FLANGED	CENTER	TOP
4	LEVEL TRANSMITTER	2"	FLANGED	90 DEG	TOP
5	MANWAY	24"		0 DEG	TOP



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

- NOTES:
- ELEVATIONS SHOWN ARE RELATIVE TO THE BOTTOM OF TANK. EL 0.00 = 324.8.
 - TANK MANUFACTURER TO PROVIDE SEISMIC ANCHORS AND CABLES WITH STAMPED STRUCTURAL CALCULATIONS.

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB DESIGNED
JLC DRAWN
HLB CHECKED

REGISTERED PROFESSIONAL ENGINEER
105439PE
DIGITALLY SIGNED BY Heather Leigh Burns
Date: 2026.07.27 13:09:50Z
OREGON
HEATHER LEIGH BURNS
MARCH 11, 2025
RENEWES 12-31-27

BID SET

consor
Stantec

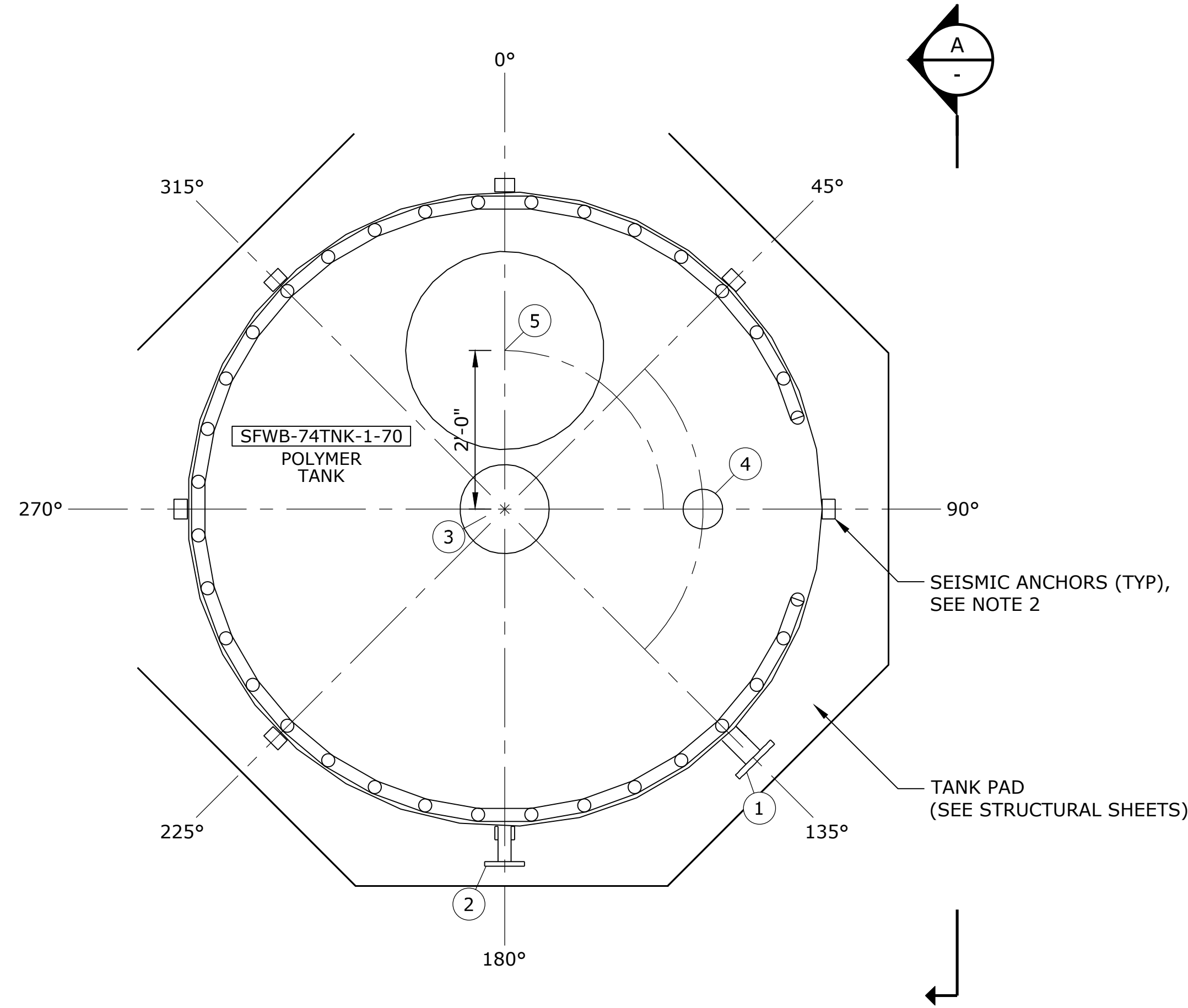
South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
ALUM TANK DETAILS

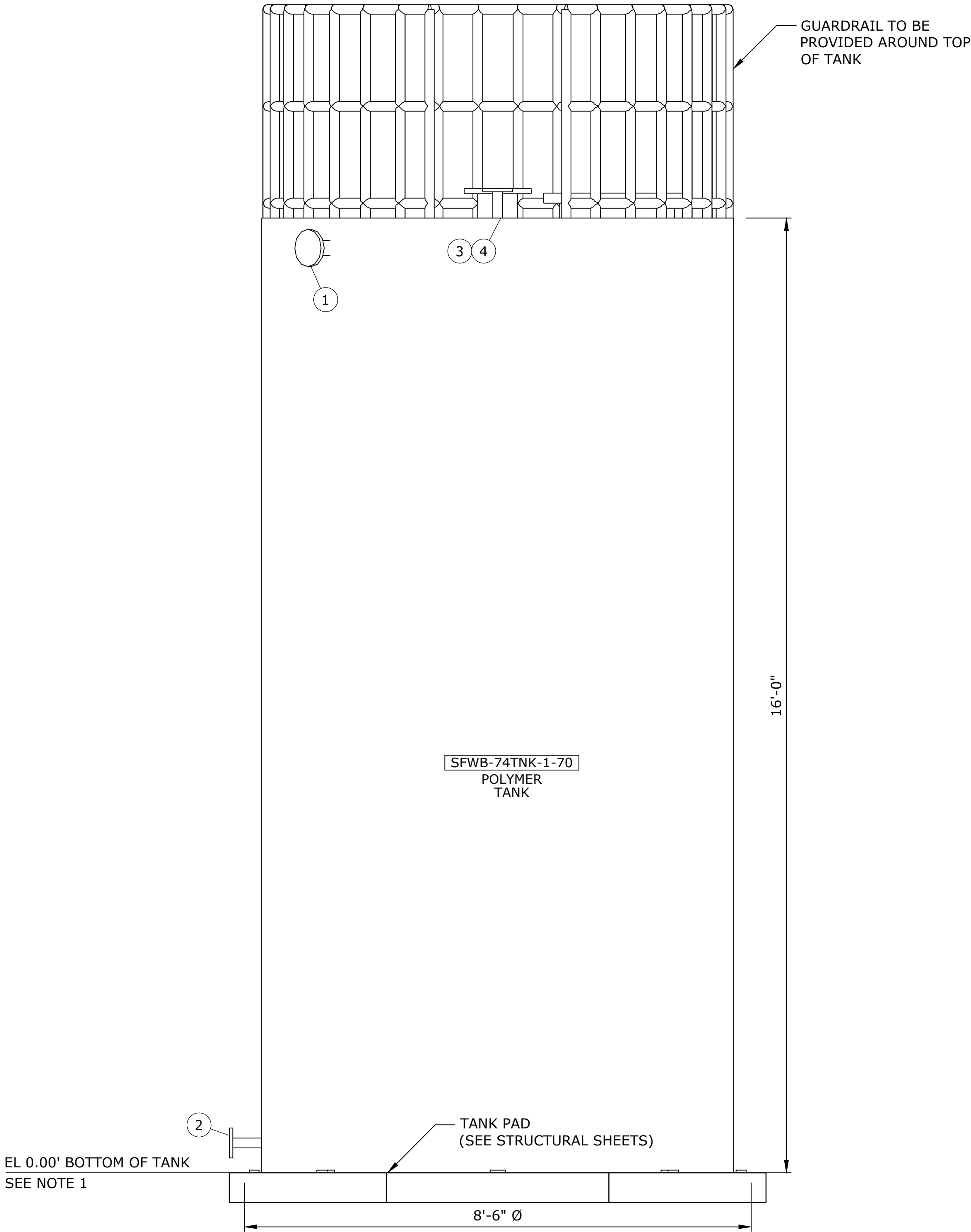
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-506

\\EgnyteDrive\Conisor Files_-V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-507 POLYMER TANK DETAILS.dwg M-507 7/29/2026 11:05 AM JUSTIN.DEUEL 24.3s (LMS Tech)



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



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

- NOTES:
- ELEVATIONS SHOWN ARE RELATIVE TO THE BOTTOM OF TANK. EL 0.00 = 320.56.
 - TANK MANUFACTURER TO PROVIDE SEISMIC ANCHORS AND CABLES WITH STAMPED STRUCTURAL CALCULATIONS.

NOTE: TANK MATERIAL IS XLPE

TANK NOZZLE SCHEDULE (SFWB-74TNK-1-70)

NO.	ITEM	DIAMETER	FITTING	ROTATION	CL ELEVATION (FROM TANK BOTTOM)
1	INLET	3"	FLANGED	135 DEG	15'-6"
2	OUTLET	3"	FLANGED	180 DEG	6"
3	VENT	8"	FLANGED	CENTER	TOP
4	LEVEL TRANSMITTER	2"	FLANGED	90 DEG	TOP
5	MANWAY	24"		0 DEG	TOP

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:00Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWES 12-31-27

BID SET

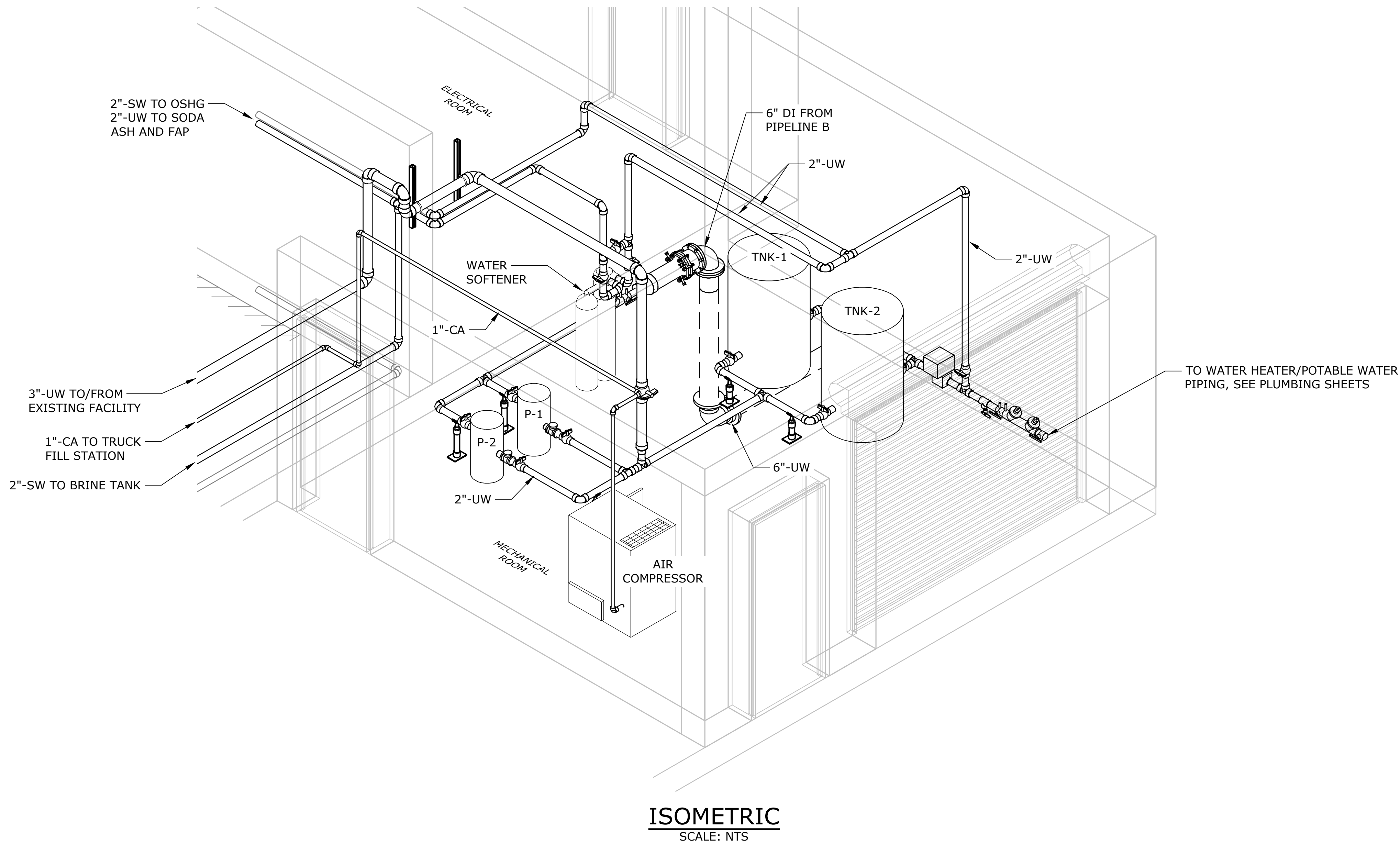
consor
Stantec

South Fork
WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
POLYMER TANK DETAILS
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-507

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-901 MECHANICAL ROOM ISOMETRIC.dwg M-901 7/29/2026 11:06 AM JUSTIN.DEUEL 24.3s (LMS Tech)



NOTE:
1. POTABLE WATER SYSTEM NOT SHOWN FOR CLARITY, SEE PLUMBING SHEETS.

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

BR
DESIGNED
JLC
DRAWN
LHO
CHECKED

REGISTERED PROFESSIONAL ENGINEER
106439PE
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWES 12-31-27

BID SET

consor
Stantec

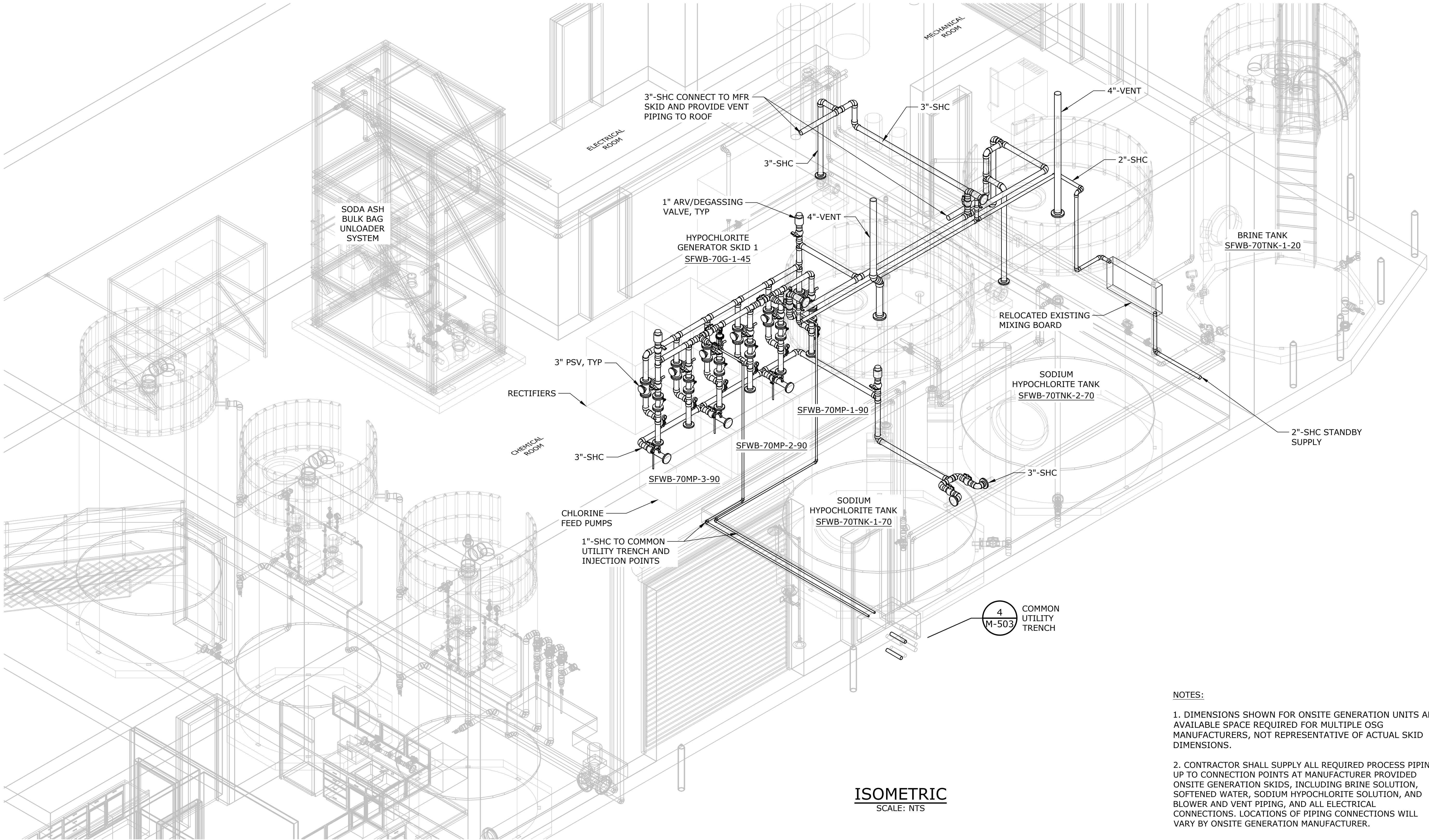
South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
MECHANICAL ROOM ISOMETRIC
PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-901

				NOTICE 01/21 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE		BR DESIGNED JLC DRAWN LHO CHECKED		REGISTERED PROFESSIONAL ENGINEER 105439PE Digitally signed by Heather Leigh Burns Date: 2024.07.27 15:09:50-0700 OREGON HEATHER LEIGH BURNS MARCH 11, 2025 RENEWS 12-31-27		BID SET		 		 WATER QUALITY SYSTEMS BUILDING		MECHANICAL UTILITY WATER AND COMPRESSED AIR ISOMETRIC				SHEET M-902	
NO.	DATE	BY	REVISION										PROJECT NO.: W253326OR		SCALE: AS SHOWN		DATE: AUGUST 2026				

\\EgnyteDrive\Conisor Files\ _V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-903 SODIUM HYPOCHLORITE ISOMETRIC.dwg M-903 7/29/2026 11:06 AM JUSTIN.DEUEL 24.3s (LMS Tech)



- NOTES:
- DIMENSIONS SHOWN FOR ONSITE GENERATION UNITS ARE AVAILABLE SPACE REQUIRED FOR MULTIPLE OSG MANUFACTURERS, NOT REPRESENTATIVE OF ACTUAL SKID DIMENSIONS.
 - CONTRACTOR SHALL SUPPLY ALL REQUIRED PROCESS PIPING UP TO CONNECTION POINTS AT MANUFACTURER PROVIDED ONSITE GENERATION SKIDS, INCLUDING BRINE SOLUTION, SOFTENED WATER, SODIUM HYPOCHLORITE SOLUTION, AND BLOWER AND VENT PIPING, AND ALL ELECTRICAL CONNECTIONS. LOCATIONS OF PIPING CONNECTIONS WILL VARY BY ONSITE GENERATION MANUFACTURER.

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:00Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

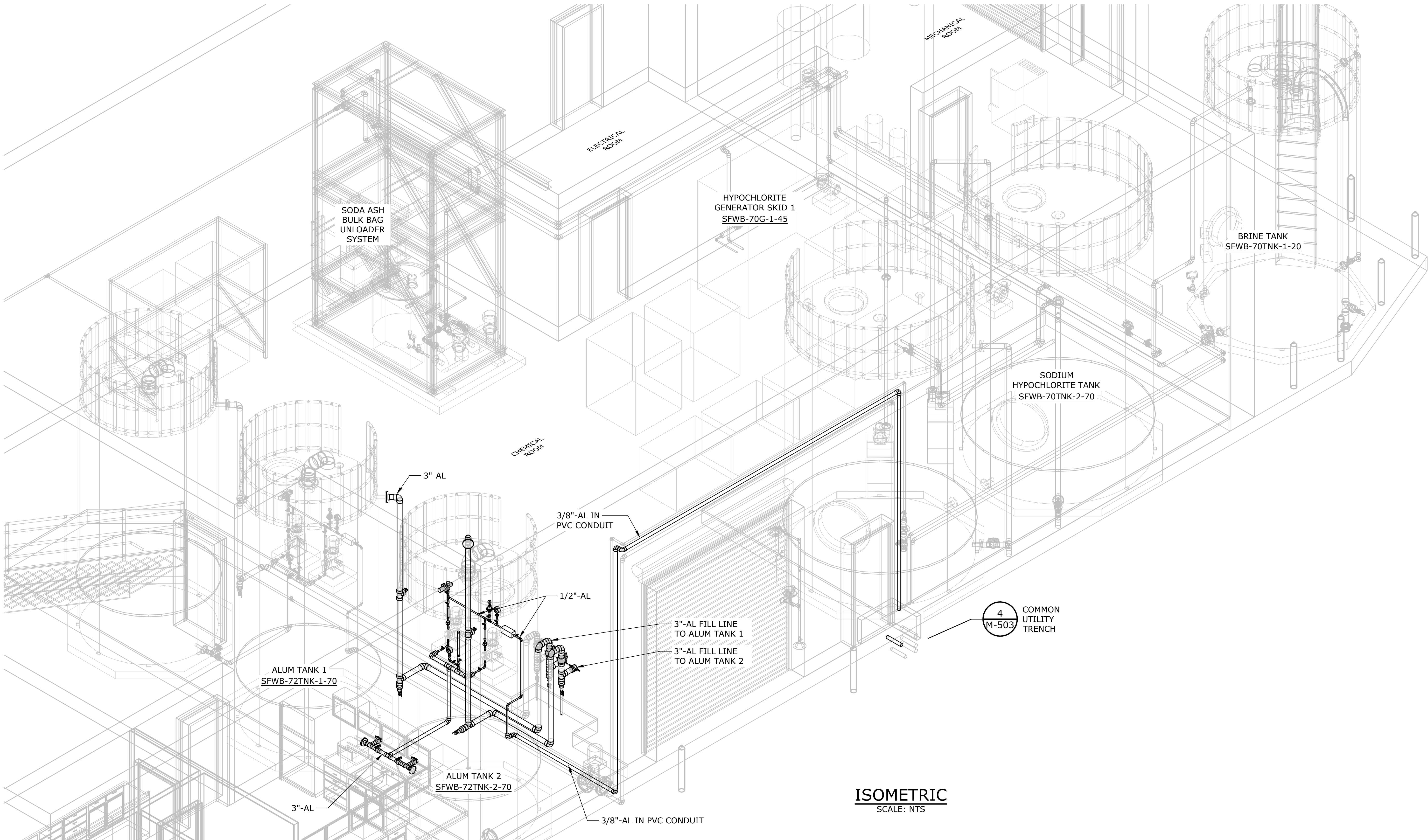
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
SODIUM HYPOCHLORITE
ISOMETRIC

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-903

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-904 ALUM ISOMETRIC.dwg M-904 7/29/2026 11:07 AM JUSTIN DEUEL 24.3s (LMS Tech)



NO.	DATE	BY	REVISION

NOTICE

0

1/2

1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLC DESIGNED
JLC DRAWN
HLB CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
Digitally signed by Heather Leigh Burns
Date: 2026.07.27 13:09:00Z
OREGON
MARCH 11, 2025
HEATHER LEIGH BURNS
RENEWS 12-31-27

BID SET

 **consor**

 **Stantec**

 **South Fork
WATER**
PURE WATER SINCE 1915

WATER QUALITY SYSTEMS BUILDING

MECHANICAL

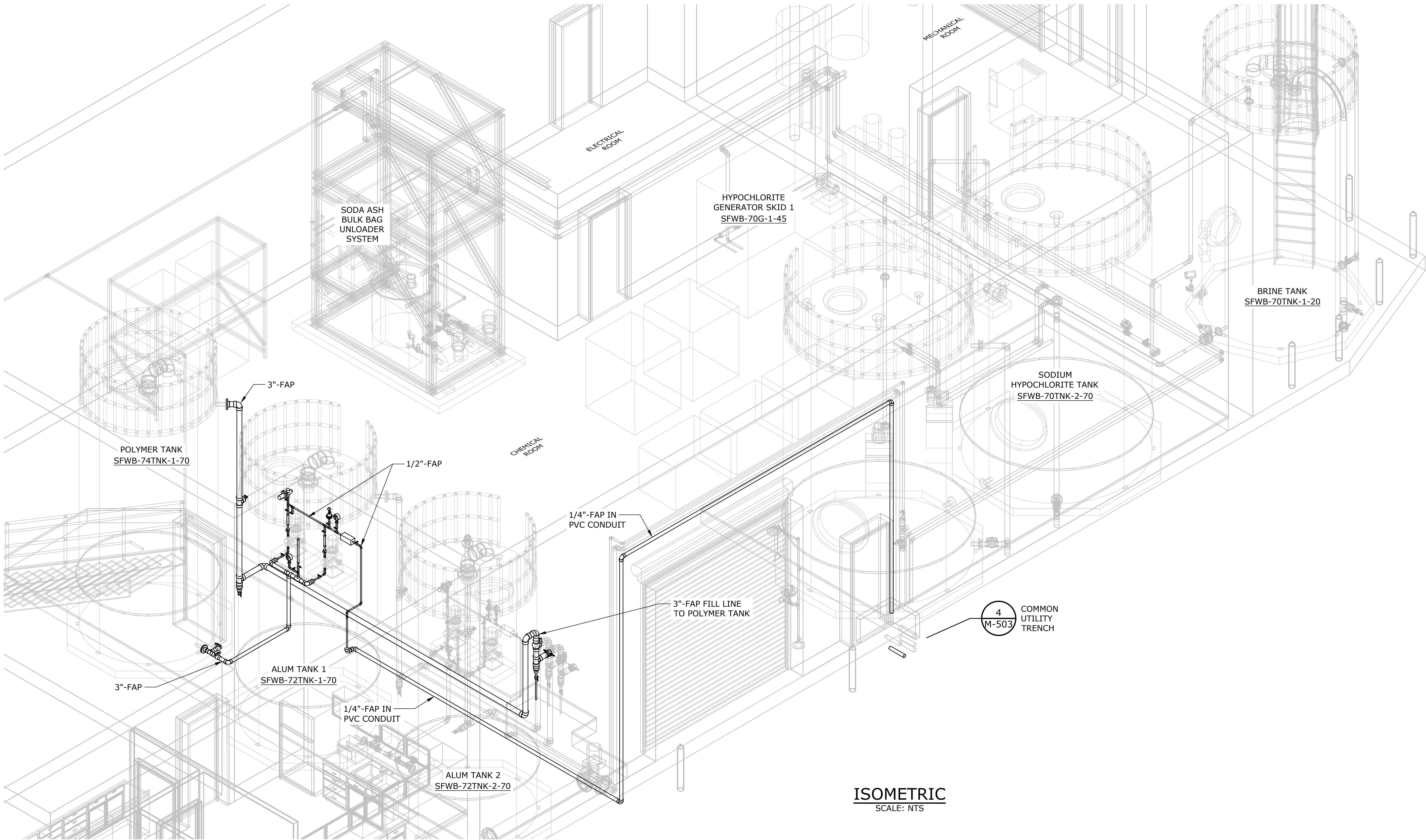
ALUM ISOMETRIC

PROJECT NO.: W253326OR | SCALE: AS SHOWN | DATE: AUGUST 2026

SHEET

M-904

\\EgnyteDrive\Conisor Files_V-W\Projects\OR\South Fork Water\2025\W253326OR.00\12 CADD\12-5 Sheets\M-905 POLYMER ISOMETRIC.dwg M-905 7/29/2026 11:07 AM JUSTIN.DEUEL 24.3s (LMS Tech)



ISOMETRIC
SCALE: NTS

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

HLB
DESIGNED
JLC
DRAWN
HLB
CHECKED

REGISTERED PROFESSIONAL
ENGINEER
105439PE
Oregon
March 11, 2025
HEATHER LEIGH BURNS
RENEW 12-31-27

BID SET

South Fork WATER
PURE WATER SINCE 1915
WATER QUALITY SYSTEMS BUILDING

MECHANICAL
POLYMER ISOMETRIC

PROJECT NO.: W253326OR SCALE: AS SHOWN DATE: AUGUST 2026

SHEET
M-905

				NOTICE 01 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE		JLC DESIGNED HLB DRAWN HLB CHECKED		REGISTERED PROFESSIONAL ENGINEER 105439PE Digitally signed by Heather Leigh Burns Date: 2026.07.27 15:50:07-0700 OREGON MARCH 11, 2025 HEATHER LEIGH BURNS RENEWS 12-31-27		BID SET		 consor  Stantec		 South Fork WATER PURE WATER SINCE 1915 WATER QUALITY SYSTEMS BUILDING		MECHANICAL SODA ASH ISOMETRIC				SHEET M-906	
NO.	DATE	BY	REVISION										PROJECT NO.: W253326OR		SCALE: AS SHOWN	DATE: AUGUST 2026					