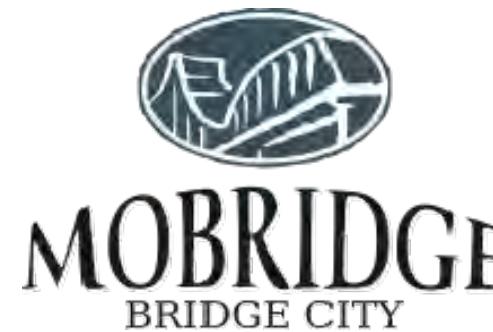


WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT

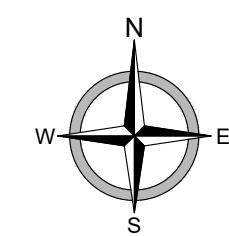
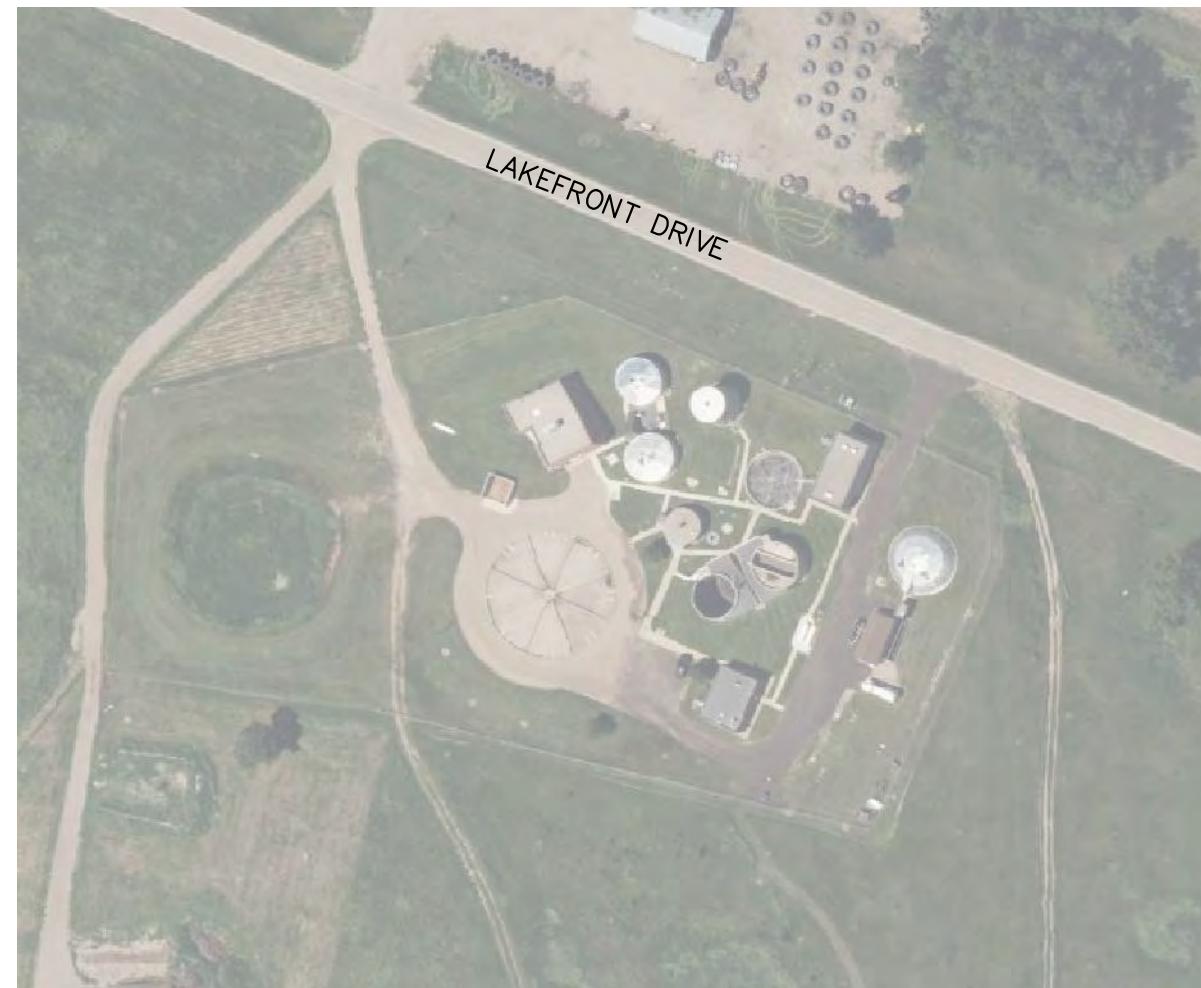


AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING



**MOBRIDGE, SOUTH DAKOTA
WALWORTH COUNTY**

VICINITY MAP



HORIZONTAL CONTROL
SOUTH DAKOTA STATE PLANE, NAD83,
NORTH ZONE, US SURVEY FOOT GROUND

VERTICAL CONTROL
1988 NORTH AMERICAN VERTICAL
DATUM (NAVD88)

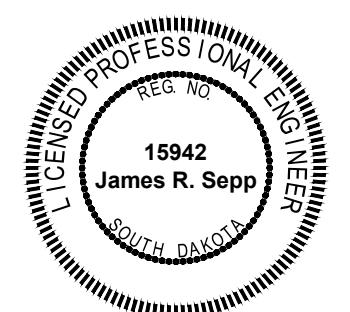
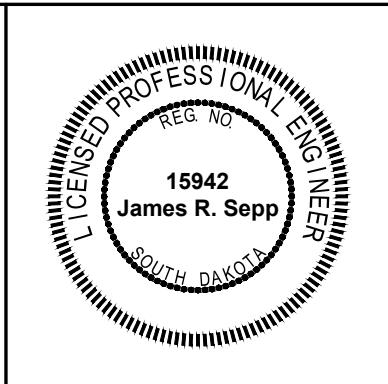


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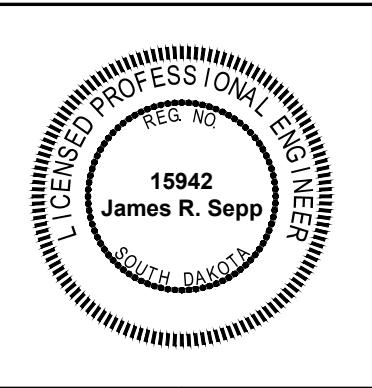
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AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

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DESIGNER: JRS	
DRAFTER: HJE/MAZ/JNG	
REVIEWER: JSW	

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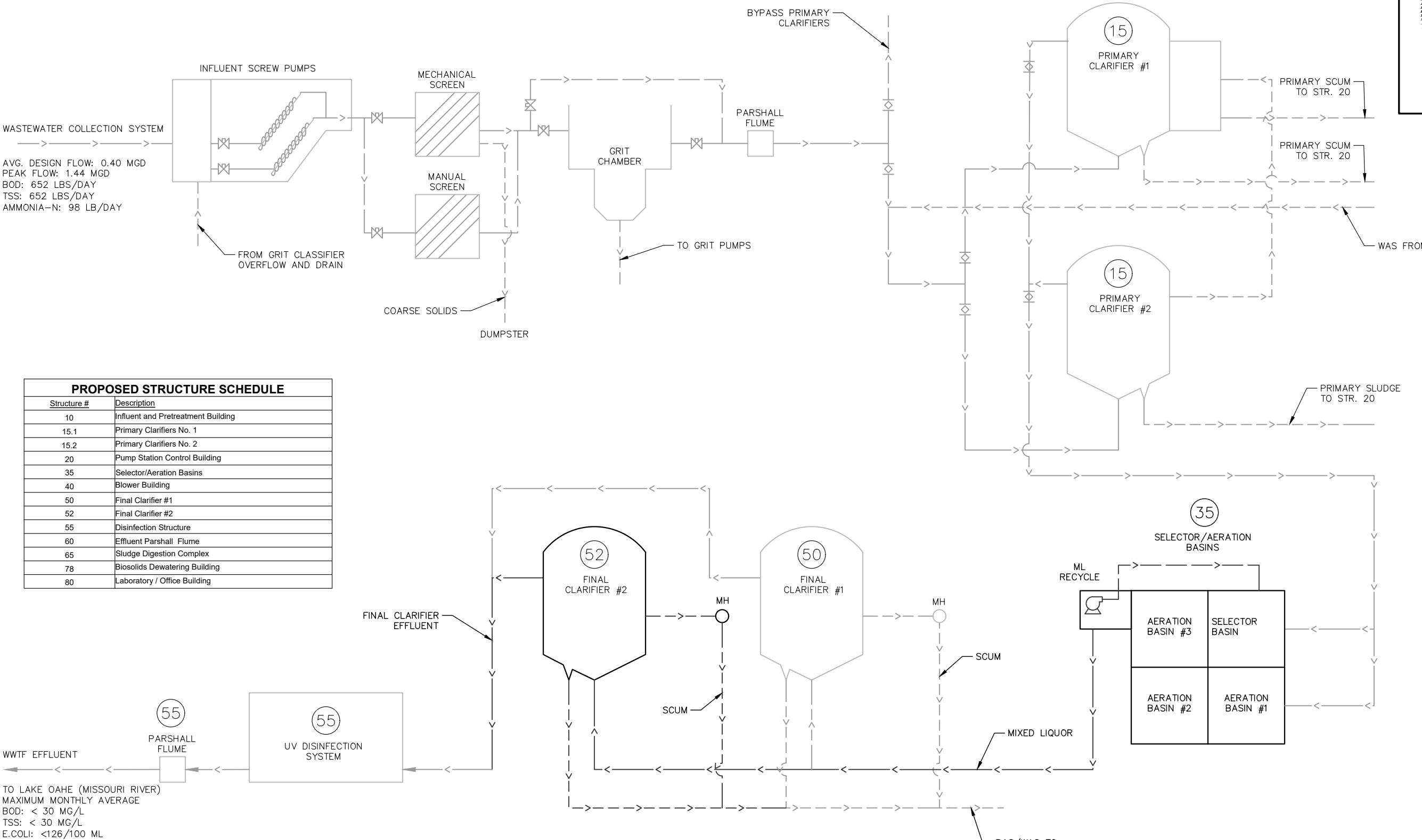
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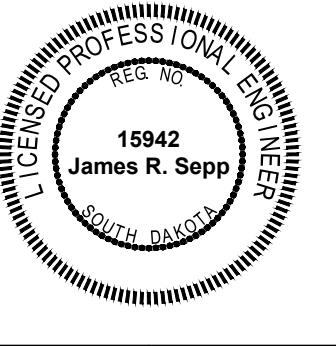
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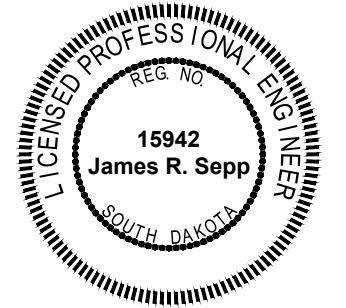
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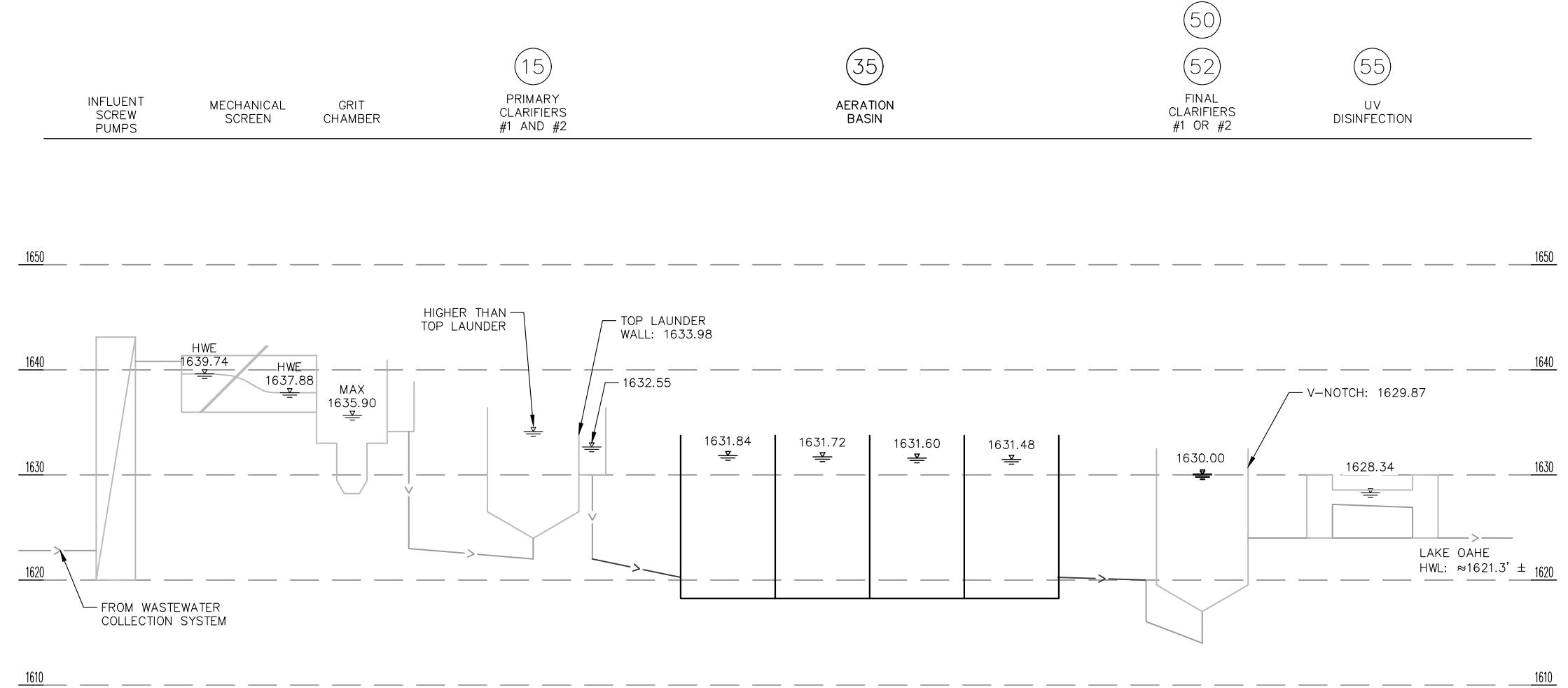
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REVIEWER: JSW

G-004





GENERAL
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
PROPOSED HYDRAULIC PROFILE



PROPOSED PROCESS FLOW AND STRUCTURE DIAGRAM

LEGEND

—>—>— EXISTING
—>—>— NEW

DATE:	1.8.26
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DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

G-005

CIVIL LEGEND

EXISTING	
—	BENCHMARK
—	IRON MONUMENT FOUND
—	EXISTING PROPERTY LINE
—	EXISTING PLAT LOT LINE
—	EXISTING RIGHT OF WAY LINE
—	EXISTING EASEMENT LINE
—	EXISTING PLAT EASEMENT LINE
○	EXISTING GAS LINE MARKER
○	EXISTING GAS GATE VALVE
○	EXISTING POWER POLE
○	EXISTING LIGHT POLE
○	EXISTING LIGHT POLE W/SIGN
○	EXISTING GUY WIRE
○	EXISTING TRAFFIC SIGNAL ARM
○	EXISTING SIGN
○	EXISTING CULVERT W/FLARED END SECTION (F.E.S.)
○	EXISTING FLARED END SECTION (F.E.S.)
○	EXISTING CURB STOP
○	EXISTING HYDRANT W/GATE VALVE
○	EXISTING GATE VALVE
○	EXISTING PROPANE TANK
○	EXISTING SANITARY SEWER MANHOLE
○	EXISTING SANITARY SEWER CLEANOUT
○	EXISTING STORM SEWER CATCH BASIN
○	EXISTING STORM SEWER MANHOLE
— W —	EXISTING WATER MAIN
— ○ —	EXISTING WATER SERVICE W/CURB STOP
— SS —	EXISTING SANITARY SEWER
— SS —	EXISTING SANITARY SEWER (RELIN W/ CIPP)
— SS-FM —	EXISTING SANITARY FORCEMAIN
—	EXISTING SANITARY SEWER SERVICE
— ST —	EXISTING STORM SEWER
— ST-FM —	EXISTING STORM SEWER FORCEMAIN
— STEAM —	EXISTING STEAM PIPE
U	EXISTING UTILITY PEDESTAL
○	EXISTING UTILITY MANHOLE
○	EXISTING UTILITY VAULT
— C —	EXISTING UNDERGROUND COMMUNICATIONS
— F —	EXISTING UNDERGROUND FIBER
— T —	EXISTING UNDERGROUND TELEPHONE
— OHT —	EXISTING OVERHEAD TELEPHONE
— TV —	EXISTING UNDERGROUND TELEVISION
— OHTV —	EXISTING OVERHEAD TELEVISION
— G —	EXISTING UNDERGROUND GAS
— E —	EXISTING UNDERGROUND ELECTRIC
— OHP —	EXISTING OVERHEAD POWER
— X —	EXISTING BARBED WIRE FENCE
○	EXISTING CHAIN LINK/STEEL FENCE
— ○ —	EXISTING PVC/WOOD FENCE
—	EXISTING RAILROAD
○	EXISTING SHRUB
○	EXISTING STUMP
○	EXISTING BOULDER
○	EXISTING TREE/TREE CLUSTER
○	EXISTING SPRINKLER HEAD
○	EXISTING CLUSTER BOX UNIT (CBU)
—	EXISTING MAILBOX
— — —	EXISTING CURB AND GUTTER

PROPOSED	
—	NEW PROPERTY LINE
—	NEW PLAT LOT LINE
—	NEW RIGHT OF WAY LINE
—	NEW EASEMENT LINE
—	NEW PLAT EASEMENT LINE
— CONST-ESMT —	CONSTRUCTION EASEMENT
— CONST-LIMITS —	CONSTRUCTION LIMITS
○	NEW LIGHT POLE
○	NEW LIGHT POLE W/SIGN
○	NEW GUY WIRE
○	NEW SIGN
—	TRAFFIC CONTROL - DRUM
—	TRAFFIC CONTROL - TUBULAR MARKER
—	NEW CULVERT W/FLARED END SECTION (F.E.S.)
—	NEW FLARED END SECTION (F.E.S.)
—	NEW CURB STOP
—	NEW HYDRANT W/GATE VALVE
—	NEW GATE VALVE
—	NEW TAPPING SLEEVE
—	NEW FITTINGS
—	NEW PLUG
—	NEW SANITARY SEWER MANHOLE
—	NEW SANITARY SEWER CLEANOUT
—	NEW STORM SEWER CATCH BASIN
—	NEW STORM SEWER MANHOLE
— W —	NEW WATER MAIN
—	NEW WATER SERVICE W/CURB STOP (S.B. ELEV.)
— SS —	NEW SANITARY SEWER
— SS-FM —	NEW SANITARY FORCEMAIN
—	NEW SANITARY SEWER SERVICE (S.S. ELEV.)
— ST —	NEW STORM SEWER
— ST-FM —	NEW STORM SEWER FORCEMAIN
— STEAM —	NEW STEAM PIPE
—	INSULATION PER DETAIL
— X —	NEW BARBED WIRE FENCE
—	NEW CHAIN LINK/STEEL FENCE
—	NEW PVC/WOOD FENCE
—	NEW CLUSTER BOX UNIT (CBU)
—	NEW MAILBOX
—	NEW LARGE DECIDUOUS TREE
—	NEW SMALL DECIDUOUS TREE
—	NEW SHRUB
—	NEW LARGE EVERGREEN TREE
—	NEW SMALL EVERGREEN TREE
PROCESS PIPING	
— SS —	SANITARY SEWER PIPING, NEW
— SS —	SANITARY SEWER PIPING, EXISTING TO REMAIN
— SS —	SANITARY SEWER PIPING, REMOVE OR ABANDON
—	AIR PIPING, NEW
—	AIR PIPING, REMOVE OR ABANDON
—	SLUDGE PIPING, NEW
—	SLUDGE PIPING, EXISTING TO REMAIN
—	PROCESS PIPING, NEW
—	PROCESS PIPING, EXISTING TO REMAIN

REMOVALS	
— SS —	INDICATES REMOVAL
○ ○ ○	REMOVE CURB AND GUTTER
—	REMOVE ASPHALT PAVEMENT
—	REMOVE CONCRETE PAVEMENT
—	REMOVE AGGREGATE SURFACE

PAVEMENT REHAB	
—	UNIFORM MILL & OVERLAY
—	TAPERED MILL & OVERLAY
—	LEVELING COURSE
—	RECLAIM
—	ASPHALT PATCH
—	CHIP SEAL

PAVEMENT	
—	NEW INFLOW CURB AND GUTTER
—	NEW OUTFLOW CURB AND GUTTER
—	NEW ASPHALT SURFACE
—	NEW CONCRETE SURFACE
—	NEW GRANULAR SURFACE
—	NEW CRUSHED CONCRETE SURFACE
—	NEW DECORATIVE COLORED CONCRETE
—	NEW ASPHALT SIDEWALK/MULTI-USE PATH
—	NEW CONCRETE SIDEWALK/MULTI-USE PATH
—	NEW CONCRETE APPROACH/DRIVeway
—	NEW DETECTABLE WARNING PANEL
—	NEW GRAVEL APPROACH/DRIVeway
—	NEW CONCRETE VALLEY GUTTER
—	NEW MEDIAN NOSE APRON
—	NEW ADA RAMP W/WARNING PANEL

SOIL DISTURBANCE	
—	DISTURBANCE AREA / TOPSOIL REMOVAL
—	REMOVE STOCKPILE
—	EXISTING STOCKPILE
—	TEMPORARY STOCKPILE
—	PERMANENT STOCKPILE
—	REAR YARD GRADING
—	GRASS BUFFER STRIP

SOIL STABILIZATION	
—	DISTURBED SOIL STABILIZATION
—	STRAW MULCH
—	SEEDING & STRAW MULCH
—	SEEDING & HYDRO MULCH
—	TOPSOIL, SEEDING & STRAW MULCH
—	TOPSOIL, SEEDING & HYDRO MULCH
—	TOPSOIL, SEEDING & BLANKET

MISCELLANEOUS	
—	EXISTING RIPRAP
—	NEW RIPRAP
—	EXISTING LANDSCAPING AREA
—	NEW LANDSCAPING AREA
—	EXISTING WATER SURFACE
—	NEW WATER SURFACE
—	EXISTING WETLAND

EROSION CONTROL	
—	DRAINAGE BREAK LINE
—	EXISTING DRAINAGE DIRECTION
—	FINISHED DRAINAGE DIRECTION & SLOPE
—	FINISHED GRADE
—	EXISTING CONTOUR ELEVATION
—	FINISHED CONTOUR ELEVATION
—	GRADE ELEVATIONS
—	SEDIMENTATION CONTROL WATTLE
—	SEDIMENTATION CONTROL FENCE
—	ROCK CHECK
—	STABILIZED CONSTRUCTION ENTRANCE
—	CONCRETE WASHOUT

ABBREVIATIONS:	
BOC	= BACK OF CURB
BOW	= BACK OF WALK
C	= COMMUNICATION
CB#	= STORM SEWER CATCH BASIN
CIPP	= CURED IN PLACE PIPE
CL	= CENTERLINE
CSP	= CORRUGATED STEEL PIPE
CO#	= SANITARY SEWER CLEANOUT
CS#	= CONTROL STRUCTURE
DIA	= DIAMETER
DIP	= DUCTILE IRON PIPE
E	= ELECTRICAL
ECC	= EDGE OF CRUSHED CONCRETE
EG	= EXISTING GRADE
EOC	= EDGE OF CONCRETE
EOG	= EDGE OF GRAVEL
EOP	= EDGE OF PAVEMENT
EOW	= EDGE OF WALK
EX	= EXISTING
F	= FIBER OPTIC
FES	= FLARED END SECTION
FG	= FINISHED GRADE
FL	= FLOWLINE
FM	= FORCEMAIN
G	= GAS LINE
HP	= HIGH POINT
INV	= INVERT
LP	= LOW POINT
MA	= MATCH
M#	= STORM SEWER MANHOLE
MT#	= STORM SEWER TEE MANHOLE
MM#	= STORM SEWER MULTI-MANHOLE
MC	= MIDPOINT OF CURVE
OHP	= OVERHEAD POWER
OHT	= OVERHEAD TELEPHONE
OHTV	= OVERHEAD TELEVISION
PC	= POINT OF CURVATURE
PRC	= POINT OF REVERSE CURVE
PVC	= POLYVINYL CHLORIDE PIPE
PT	= POINT OF TANGENCY
RIM	= RIM OF STRUCTURE
S#	= SANITARY SEWER MANHOLE
S.B. ELEV	= STOP BOX ELEVATION
S.S. ELEV	= SANITARY SEWER SERVICE INVERT
SS	= SANITARY SEWER
ST	= STORM SEWER
STA	= ALIGNMENT STATION
T	= TELEPHONE

THE FOLLOWING PLAN NOTES SUPPLEMENT AND AMEND THE PLAN SHEETS, SPECIFICATIONS AND MNDOT REFERENCES AS FOLLOWS:

GENERAL NOTES:

1. The drawings designate those existing items for removal, replacement, or improvement. If not designated for removal, replacement, or improvement, all other existing items within the site to be protected.
2. Any construction traffic damage to roads outside the construction area to be repaired by the contractor.
3. Sweep the roadway adjacent to the construction area at the end of each day. Sweep paved areas that were used by construction traffic before opening these areas to public traffic.
4. Coordinate a staging area location with the city for construction.
5. Concrete washout to be located within project limits and washout material to be removed and area backfilled, seeded, and mulched at completion.
6. The intent of the project is to maintain sewer service through existing facilities until a switchover to the new mechanical treatment facility can occur. Coordinate rerouting of existing sanitary sewer and switchover with Engineer and City Staff and the Drawings.
7. Reference "Geotechnical Evaluation Report" Terracon dated May 19, 2025, for guidance or requirements on foundation, building, testing and tank construction.
8. All testing to be coordinated by the contractor.

UNDERGROUND NOTES:

1. The subsurface utility information in this plan is Utility Quality Level D. This quality level was determined according to the guidelines of ASCE 38-02 entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data".
2. Not all water main fittings required for a complete installation may be shown on the plans. Provide all required fittings. All fittings shall be ductile mechanical joint type. Cost of fittings is incidental to the corresponding new pipe items.
3. Plug, cap, or grout all abandoned lines shut. Cost of items to abandon lines shut shall be incidental to the corresponding removal item.

4. All sewer and water pipes may not be shown on the drawings. Location of pipes to be determined by Contractor and protected.
5. Provide shoring as needed to remove existing and install proposed structures and utilities.
6. Existing utility depths are approximate. Contractor to verify depth of existing water main and adjust depth of new main accordingly to make connection.
7. Before putting any out-of-service (new installation or existing) water main into service: flush, disinfect, and bacteria test main during city hours and with a city representative.
8. Flush, disinfect, and bacteria test temporary water lines prior to activation in accordance with South Dakota Department of Environment and Natural Resources.
9. Coordinate any utility relocations with appropriate utility.
10. Unless otherwise noted, any removal, relocation, replacement, or bracing of power poles or any other utilities is the responsibility of the Contractor.
11. Existing utilities (both public and private) shown on the plans are approximate and may not be complete. It is the Contractor's responsibility to verify and locate any utilities prior to excavation. There will be no additional payment for exploratory time.
12. There is a high potential for groundwater to be encountered within excavations and trenches on the project. It shall be the Contractor's responsibility to dewater for constructability.
13. Top of water main and wastewater pipes shall be installed at a minimum depth of 8 feet below final grade.
14. No extra payment will be made for bedding material for pipe, structures or fittings.
15. Provide safe and sanitary movement of wastewater for the duration of the project. Do not allow wastewater to back up in the mains.
16. When utilities are in roadway ditch and trenching impacts the ditch drainage the contractor shall restore to original grades and assure no low areas are created that hold water.
17. Any damaged fence and sprinkler lines shall be replaced incidental to the Project.
18. If requested by the Owner, salvage items removed from the site. Deliver to Owner at their designated storage location.

19. Maintain access for the City of Mobridge to continue normal operations of the Wastewater Treatment Plant.

DEWATERING NOTES:

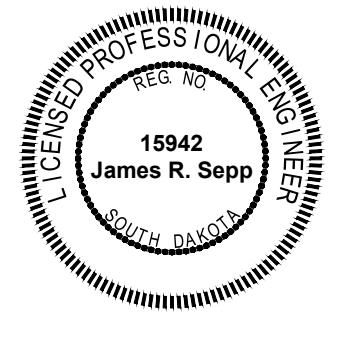
1. Provide all design, installation, and operation of temporary dewatering systems of whatever type necessary to construct the Project.
2. Furnish and operate all pumps, sumps, dewatering wells, temporary piping, and all power and other equipment required to operate required dewatering.
3. Maintain water levels at or below the bottom of concrete structures, pipes, and other underground facilities to be installed.
4. Dewatering shall be handled, treated, and discharged in accordance with the Stormwater Pollution Prevention Plan (SWPPP). Groundwater Discharge Plan Application must be submitted to the South Dakota DANR.
5. Groundwater removed to temporarily dewater the Site may be discharged into the north ditch. Verify discharge location with Engineer.

SDDOT NOTES

1. **COMPACTION AND DENSITY CONTROL:** Compact material as specified in section 120 B.3.a, "SD 108". Moisture content no less than 1.0 percentage points below optimum and no more than 3.0 percentage points above optimum.
2. **DENSITY AND MOISTURE TESTING:** Field testing method for density and moisture control to be in accordance with ASTM D6938 - Standard Test Method for in-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth).
3. **COMPACTION CONTROL:** Meet the compaction control requirements below for embankment construction:

Location	Compaction Control
Work in public R.O.W.	Type A
Topsoil stockpile	Type C

4. **EXCESS MATERIAL:** Any remaining material following excavation and embankment to be stockpiled on the project site in location(s) shown on plans or identified by engineer in the field. No material may leave the project limits without approval of the engineer. Owner has first right to any excess material. If directed by the



CIVIL
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBIDGE, SOUTH DAKOTA

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---

PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

C-002

- engineer and Owner, excess material (rejected by the Owner) is to become the Contractor's property, removed and disposed from the project site.
5. **REMOVAL OF BITUMINOUS SURFACING:** Saw cut and remove full depth asphalt. Asphalt removals to be property of City of Mobridge.
 6. **REMOVAL OF CONCRETE PAVEMENT:** Saw cut and remove full depth sidewalk. Concrete removals to be property of City of Mobridge.
 7. **WATER:** All water required for dust control and to obtain proper moisture content and compaction shall be incidental to the project.
 8. **WATER FOR GRASS ESTABLISHMENT:** Immediately begin watering all seeded and mulched areas no later than 2 days after seeding and mulching to provide a minimum of 2.0-inch depth of moisture per week, no more than 2 times per week, until Final Stabilization.

Water only during early morning hours to avoid excessive evaporation. Water at intervals such that the soil remains moist and not overly soaked. Reduce water as necessary to account for rainfall during each week and increase watering during hot and/or windy periods. Provide the Engineer weekly reports of watering operations including dates, times and quantity of watering or rainfall amounts to indicate minimum moisture is being obtained.

 9. **TOPSOIL STRIPPING:** Remove topsoil full depth and replace after utility line installation.
 10. **TOPSOIL:** Salvage and reuse existing topsoil. Place 6 inches of topsoil at designated areas. Topsoil to be reasonably free of vegetation and stones larger than 1 inch in the greatest dimension.
 11. **SUBBASE:** Scarify and recompact subgrade areas under the roadway section as indicated on the drawings.

Proof roll all pavement subgrades prior to aggregate placement, along all travel lanes to verify the uniformity of the underlying subgrade throughout the roadway section and to check for the presence of localized soft or weak zones. Perform proof roll under the observation of the engineer with a fully loaded, tandem axle dump truck with a weight of approximately 25 tons, or an

approved equal. Proof roll at a vehicle speed of between 1 1/2 and 3 miles per hour along the pavement subgrades such that unrolled areas between wheel paths are not wider than 1 foot. Typical yielding should be limited to less than 1 1/2-inches for pavement subgrades, provided the underlying subgrade does not display permanent deformation. Correct areas that display excessive yielding, pumping or rutting during the proof roll. Repeat proof roll procedures until accepted by the engineer.

12. **GRADATION:** Independent Testing Firm will collect three samples for each 250 tons of material placed.
13. **AGGREGATE SURFACE:** Proof roll all aggregate surfaces and bases prior to along all travel lanes to verify the uniformity of the underlying base throughout the roadway section and to check for the presence of localized soft or weak zones. Perform proof roll under the observation of the Engineer with a fully loaded, tandem axle dump truck with a weight of approximately 25 tons, or an approved equal. Proof roll at a vehicle speed of between 1 1/2 and 3 miles per hour along the aggregate base such that unrolled areas between wheel paths are not wider than 1 foot. Typical yielding should be limited to less than 1/2-inches for aggregate bases, provided the aggregate base does not display permanent deformation. Correct areas that display excessive yielding, pumping or rutting during the proof roll. Repeat proof roll procedures until accepted by the engineer.
14. **SEEDING AND HYDRAULIC-MULCHING:** Seed and hydraulic-mulch disturbed ground. Apply hydraulic-mulch after the seed is drilled into the topsoil. The area for seeding and hydraulic-mulch is limited to west of the field along the gravel road.

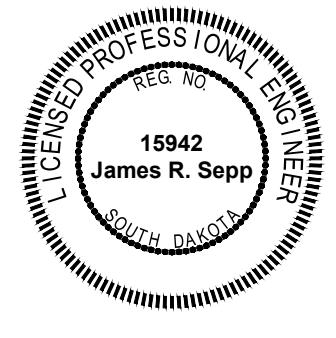
Use fertilizer mixture of 12-24-12 applied at a rate of 220 pounds per acre. Water after placement in order to provide sufficient moisture for growth as determined by the engineer. Reseed, at no cost to the Owner, any areas not established within 6 weeks for normal seeding or not established by July 1 for dormant seeding.

15. **FINAL STABILIZATION:** All disturbed areas to receive permanent stabilization within 14 days after completion of work in the specific area.
16. **WEED CONTROL:** If weeds of any kind are present before seeding, control them. If weeds of any kind are present after seed germination and during grass establishment, control them with a herbicide applied at the rate as labeled by the manufacturer.

Notify property owners in writing, a minimum of 5 days prior to herbicide application. When instructed by property owner, do not apply herbicide to their property and adjacent right of ways.

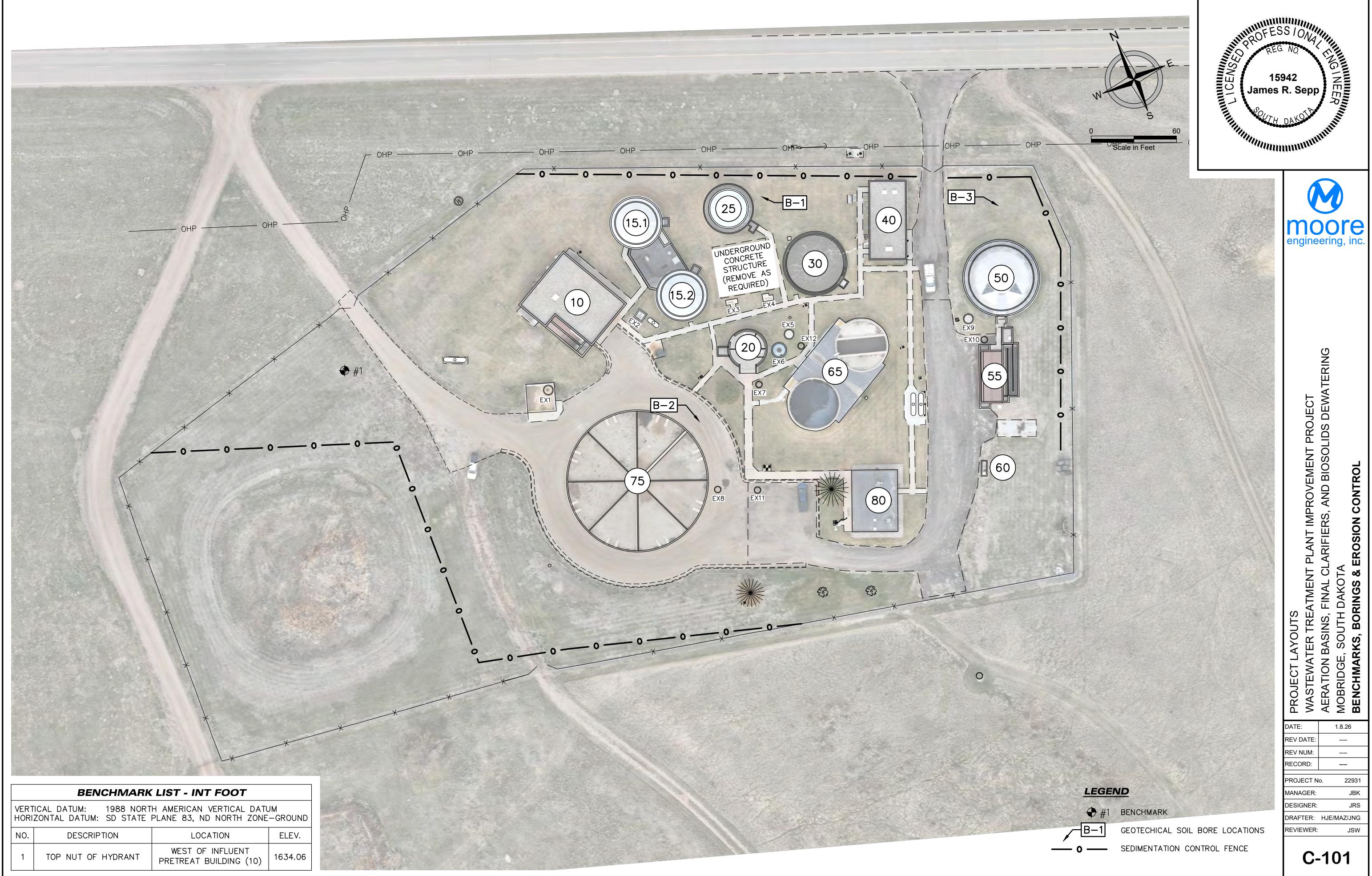
Herbicides will only be applied by qualified applicators, following herbicide labels and manufacturer's recommendations for application rates. A qualified applicator is an individual who had been trained regarding the product and application method, and meets any federal, state and local laws and regulations. This individual is required to hold a certified applicators license, or be under the direct supervision of a certified applicator. Supervisors of qualified applicators are required to hold a certified applicators license in the State of South Dakota. Applicators must use extreme caution when applying herbicides near water, adjacent to properties with plants that might be damaged, or other landscape areas. Remedy damage resulting from improper use of herbicides. The applicator is responsible for the purchase, storage, record keeping, and disposal of herbicides. All herbicide applications will be reported to the Engineer on a weekly basis.

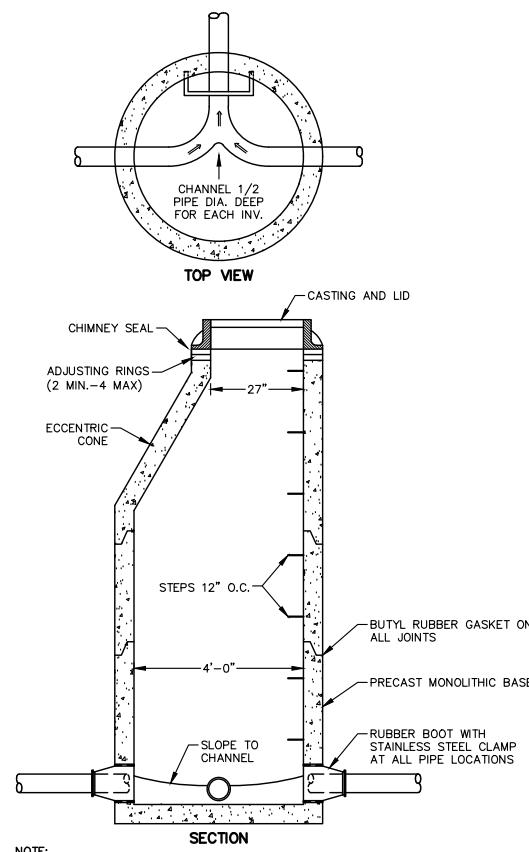
Restore (seed and mulch) all disturbed areas where the finished surface is not pavement, gravel, concrete, or other type of hard surface.



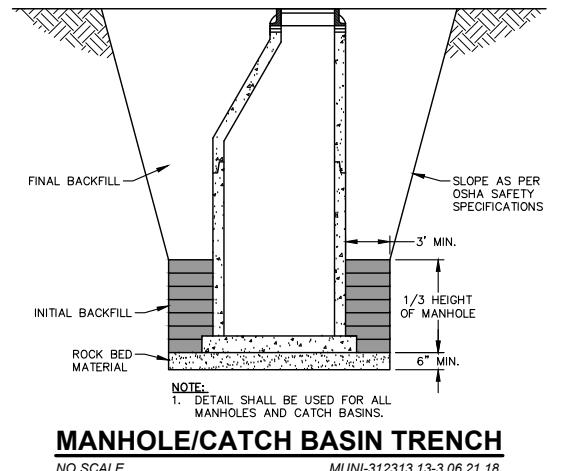
CIVIL
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

DATE:	1.8.26
REV DATE:	---
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PROJECT No.	22931
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DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

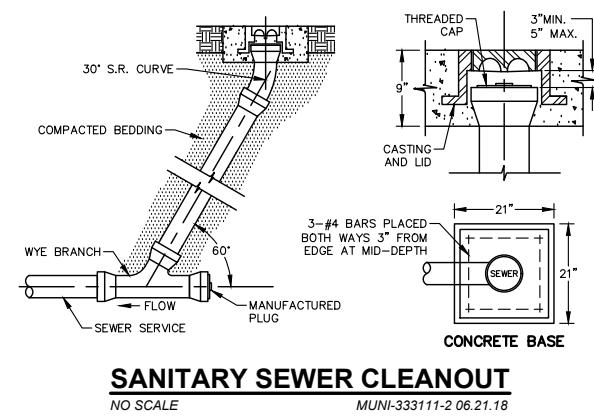




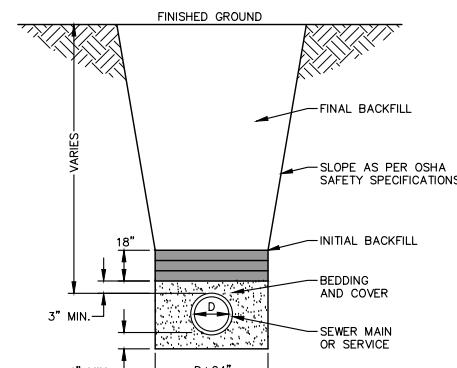
SANITARY SEWER MANHOLE
NO SCALE MUNI-330561-1 06.21.18



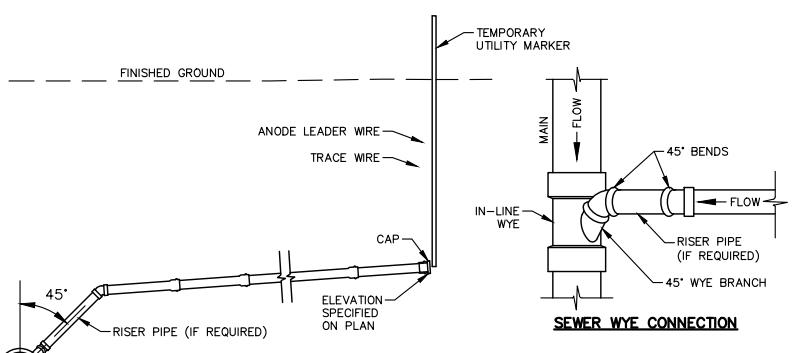
MANHOLE/CATCH BASIN TRENCH
NO SCALE MUNI-312313.13-3 06.21.18



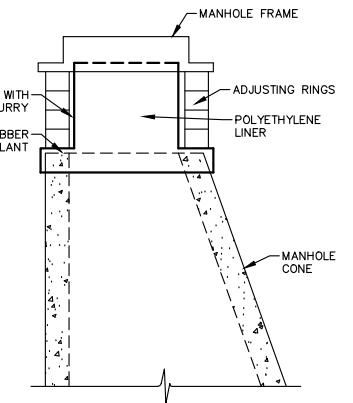
SANITARY SEWER CLEANOUT
NO SCALE MUNI-333111-2 06.21.18



SANITARY SEWER MAIN OR SERVICE TRENCH
NO SCALE MUNI-312316.13-1 06.21.18



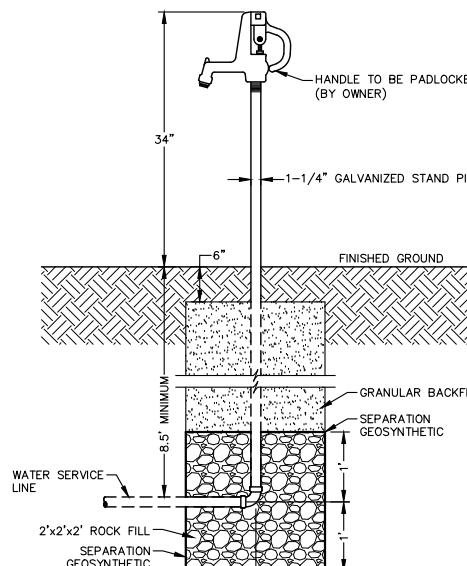
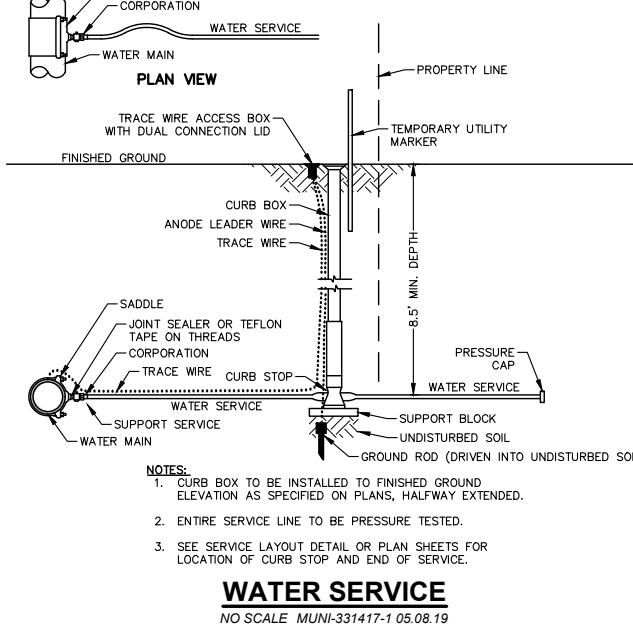
SANITARY SEWER SERVICE
NO SCALE MUNI-333111-5 06.21.18



MANHOLE SEALS
NO SCALE MUNI-330561-3 06.21.18

DETAILS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIIDGE, SOUTH DAKOTA
SANITARY

DATE: 1.8.26
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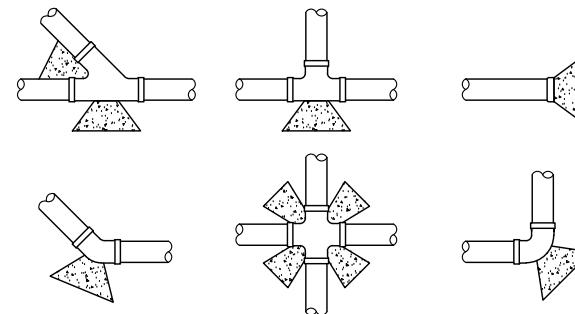


MECHANICAL JOINT RESTRAINT LENGTH												
FITTING TYPE	PIPE MATERIAL	SOIL TYPE	SAFETY FACTOR	TRENCH TYPE	DEPTH OF BURY	TEST PRESSURE	NOMINAL SIZE	BEND ANGLE	BRANCH SIZE	LENGTH ALONG RUN	REDUCED SIZE	RESTRAINT LENGTH
HORIZONTAL BEND	PVC	CL	2	5	8	150	6	90			13 FT	
HORIZONTAL BEND	PVC	CL	2	5	8	150	6	45			5 FT	
HORIZONTAL BEND	PVC	CL	2	5	8	150	6	22.5			3 FT	
HORIZONTAL BEND	PVC	CL	2	5	8	150	6	11.25			2 FT	
TEE	PVC	CL	2	5	8	150	6		6	1	28 FT	
REDUCER	PVC	CL	2	5	8	150	6			6	21 FT	
DEAD END	PVC	CL	2	5	8	150	6				37 FT	

NOTE TO DESIGNER: THIS TABLE IS FOR A SPECIFIC INSTANCE FOR PVC IN DAY SOIL. VISIT EBAA IRON RESTRAINT CALCULATOR WEB PAGE FOR OTHER TYPES OF INSTALLATION. NORMALLY, COLUMNS B-G CAN BE ELIMINATED FROM THE PLANS.

MECHANICAL JOINT RESTRAINT LENGTH

NO SCALE MUNI-330509.33 05.08.19

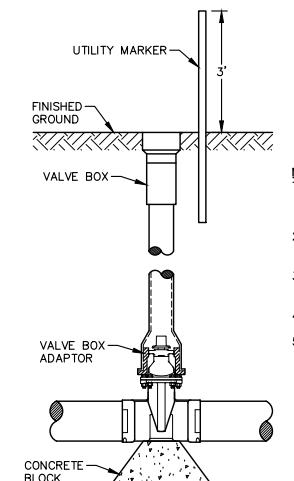
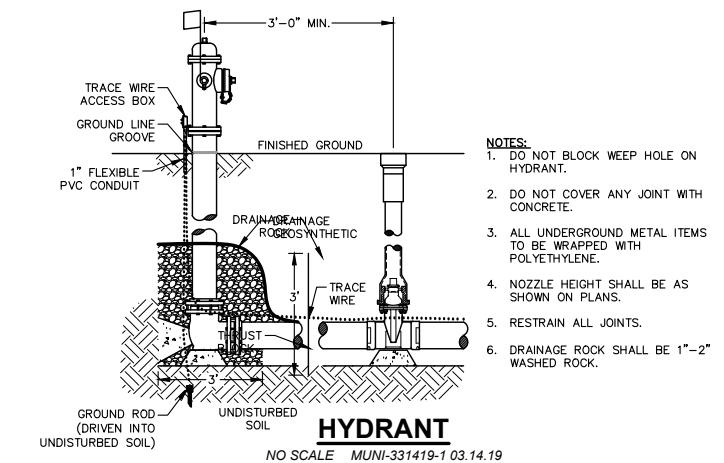
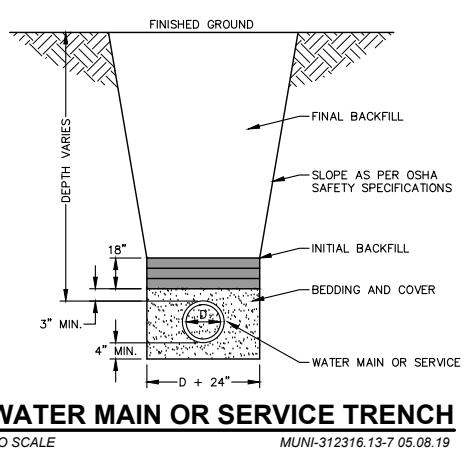


PIPE DIAMETER	REQUIRED BEARING AREA (S.F.)											
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"		
CROSS, DEAD END OR TEE	2	4	7	11	16	21	28	36	44	63		
90 BEND	3	6	10	16	22	30	39	50	62	88		
45 BEND	2	3	6	9	12	17	21	27	34	48		
22 1/2 BEND	1	2	3	5	7	9	14	17	17	25		

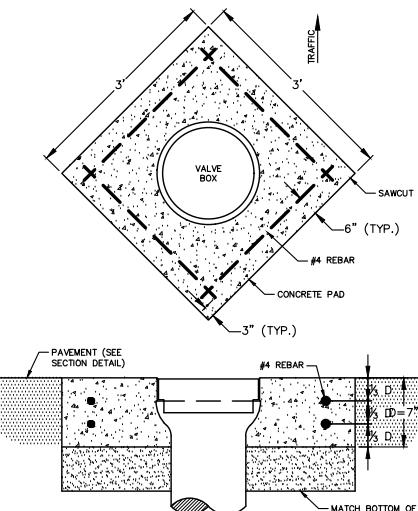
NOTE: ALL THRUST BLOCKS A MINIMUM OF 12" THICK AND MUST BEAR AGAINST UNDISTURBED SOIL.

THRUST BLOCKS

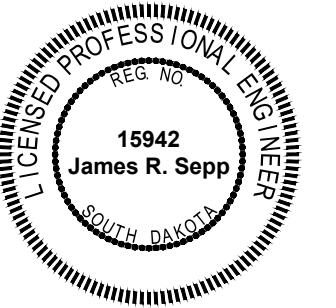
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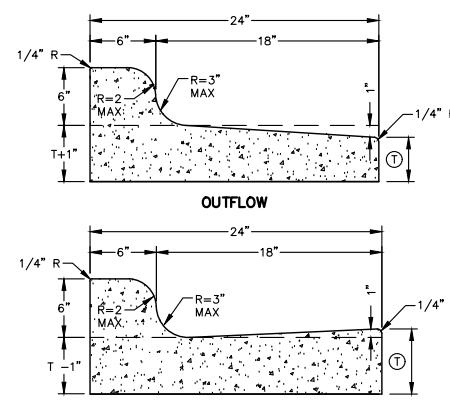
VALVE AND BOX
NO SCALE MUNI-333111-1 06.21.18



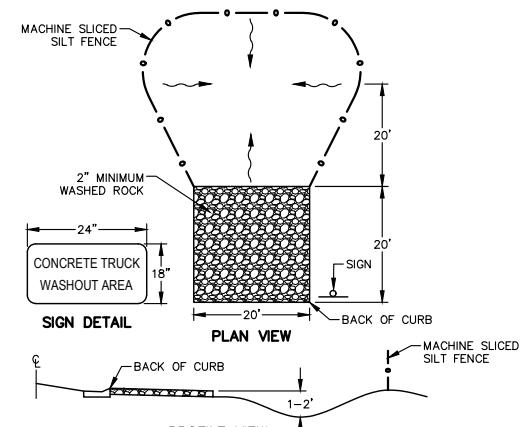
DETAILS	WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS Dewatering	MOBRIIDGE, SOUTH DAKOTA
WATER	
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW



DETAILS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS Dewatering
MOBRIIDGE, SOUTH DAKOTA
WATER



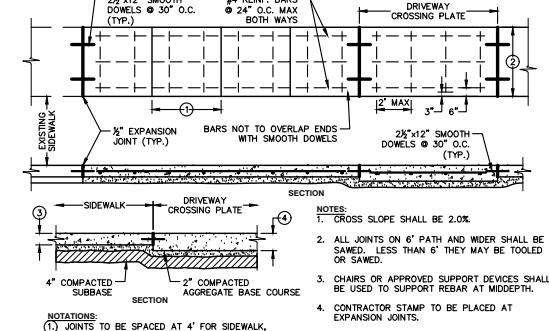
CURB & GUTTER - HIGH BACK
NO SCALE MUNI-321313-5 06.21.18



NOTES:
 1. ALL WASHING OF CONCRETE TRUCKS WILL BE CONDUCTED AT THIS SITE.
 2. ALL DIMENSIONS ARE APPROXIMATE AND MAY BE ADJUSTED BASED ON SITE CONSTRAINTS.
 3. WHEN WASHOUT PIT IS NO LONGER NEEDED, SOLIDIFIED CONCRETE AND THE ROCK PAD SHALL BE DISPOSED OF OFF-SITE AND THE AREA SHALL BE LEVELED OUT TO MATCH THE SURROUNDING GRADE AND SLOPES.
 4. COORDINATE LOCATION OF CONCRETE WASHOUT AREA WITH ENGINEER IN FIELD

CONCRETE WASHOUT AREA

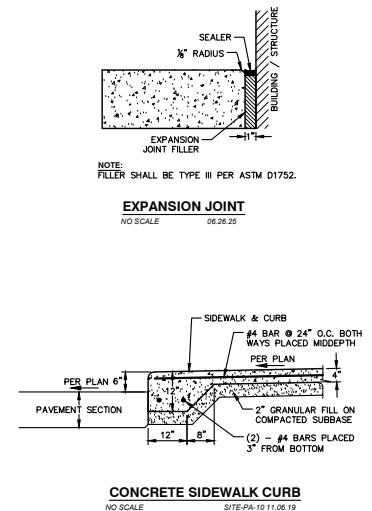
NO SCALE MUNI-312500-3 06.21.18



NOTES:
 1. CROSS SLOPE SHALL BE 2.0%.
 2. ALL JOINTS ON 6' PATH AND WIDER SHALL BE SAWED, LESS THAN 6' THEY MAY BE TOOTLED OR SAWED.
 3. CHAIRS OR APPROVED SUPPORT DEVICES SHALL BE USED TO SUPPORT REBAR AT MIDDEPTH.
 4. CONTRACTOR STAMP TO BE PLACED AT EXPANSION JOINTS.
 5. ALL EXPANSION JOINTS SHALL BE PLACED AT PROPERTY LINES WHERE POSSIBLE.
 6. SAW CENTERLINE JOINT ON 10'-0" WIDTH OR WIDER PATHS. JOINTS SHALL BE SPLIT WIDTH AND ON CURVES FOLLOW THOSE CURVES, I.E. NO STRAIGHT LINE SEGMENTS.
 7. THESE STANDARDS APPLY UNLESS OTHERWISE NOTED ON THE PLANS.

SIDEWALK / MULTI-USE PATH

NO SCALE 06.26.25



CONCRETE SIDEWALK CURB
NO SCALE SITE-PA-10 11.06.19

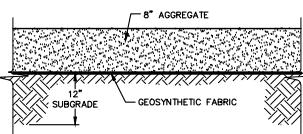
EARTHWORK COMPACTION SCHEDULE					
	Min. % of Max. Density ASTM D698	Range from Optimum Moisture %	Fill Type	Max. Compacted Lift Thickness (in.)	Max. Loose Lift Thickness (in.)
Trenching					
Flexible Pipe Bedding and Cover	95		A5	6	6
Rigid Pipe Bedding and Cover	95		A5	6	6
Rock Bedding - 1 1/4"					
Initial Backfill	95	-3 to +3	S2	6	12
Final Backfill	95	-3 to +3	S2	6	12
Top 4 feet of Final Backfill below Roadway	98	-3 to +3	S2	6	12
Topsoil	Lightly Compact		S4		
Backfill for Valve and Box and Yard Hydrant	95	-3 to +3	A5	6	12
Lagoon					
Import Fill	95	-1 to +3	S2	6	9
Clay Liner	95	-1 to +4	S4	6	12
Embankment	95	-1 to +3	S2	6	12
Topsoil	Lightly Compact		S4		
Spoil or Stockpile	Lightly Compact		S2	6	12
Manholes and Structures					
Bedding	95		A1	6	12
Rock Bedding					
Backfill	95	-3 to +3	S2	6	12
Top 4 feet of Final Backfill below Roadway	98	-3 to +3	S2	6	12
Topsoil	Lightly Compact		S4		

NOTES:

1. COMPACT MATERIAL AS SPECIFIED IN SECTION 203.04 E.2.b."ND T-99".
2. MEET THE COMPACTION CONTROL REQUIREMENT TYPE A.

EARTHWORK COMPACTION SCHEDULE

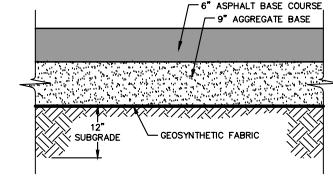
NO SCALE MUNI-310000-1 06.21.18



NOTES:
 1. SUBGRADE TO BE SCARIFIED TO DEPTH SHOWN AND COMPAKTED TO 95% STANDARD PROCTOR DENSITY.

AGGREGATE SURFACE SECTION - REGULAR

NO SCALE 06.26.25



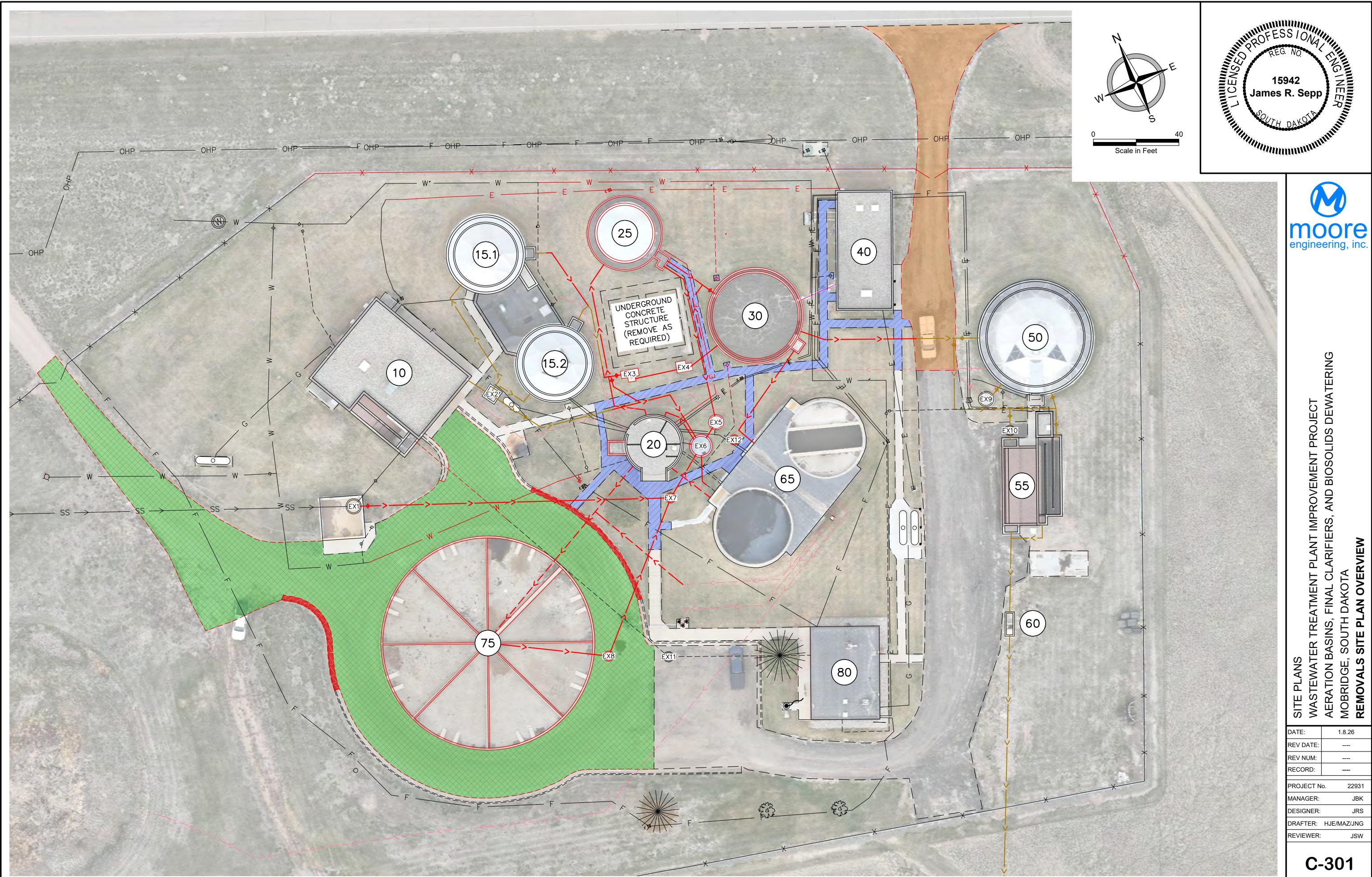
NOTES:
 1. SUBGRADE TO BE SCARIFIED TO DEPTH SHOWN AND COMPAKTED TO 95% STANDARD PROCTOR DENSITY.
 2. TACK COAT - APPLY TACK COAT UNIFORMLY AT THE RATE OF 0.05 GALLONS PER SQUARE YARD. APPLY WITHIN 24 HOURS PRECEDING PLACEMENT OF THE COVERING COURSE.

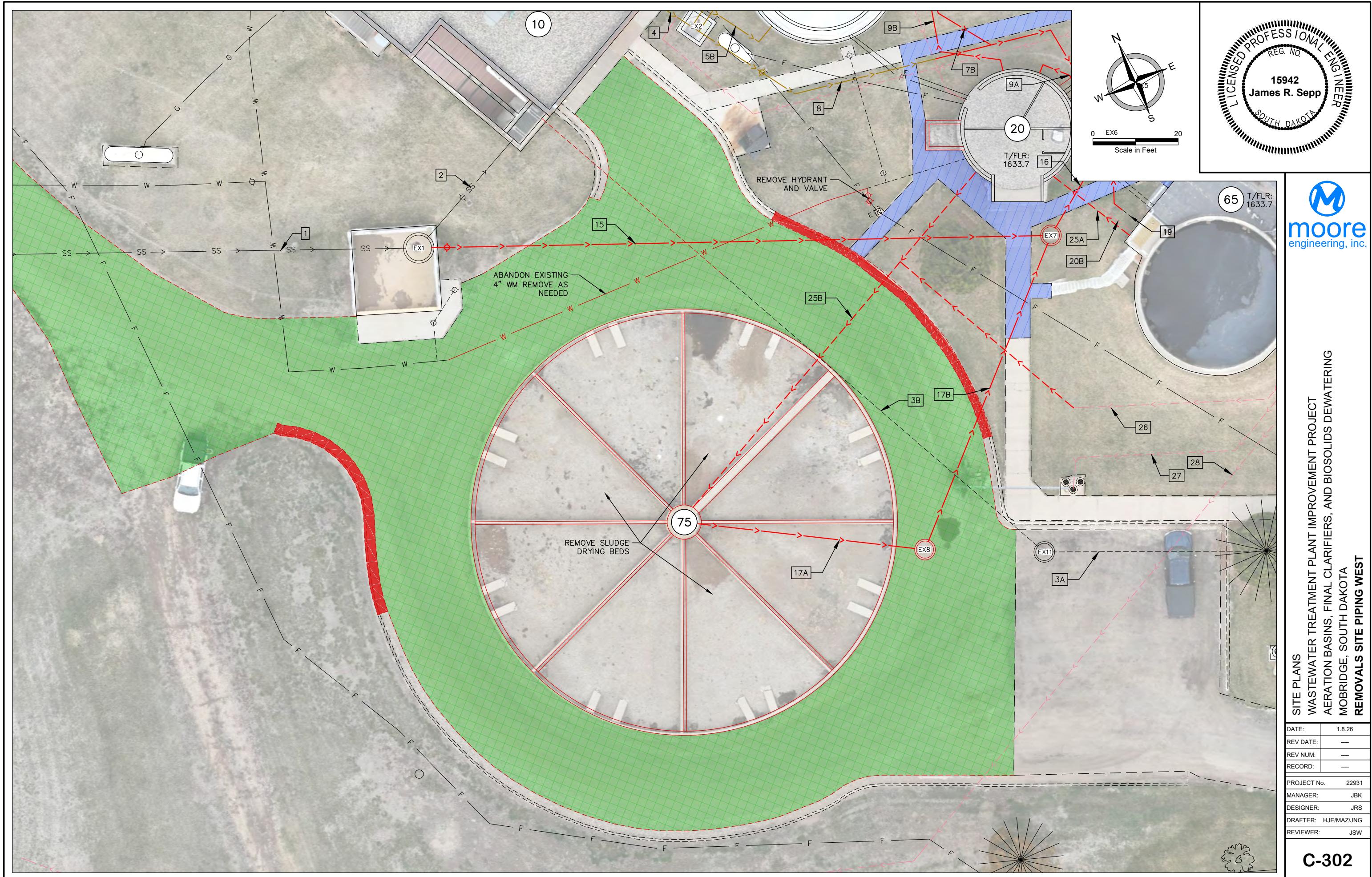
ASPHALT PAVEMENT SECTION - REGULAR

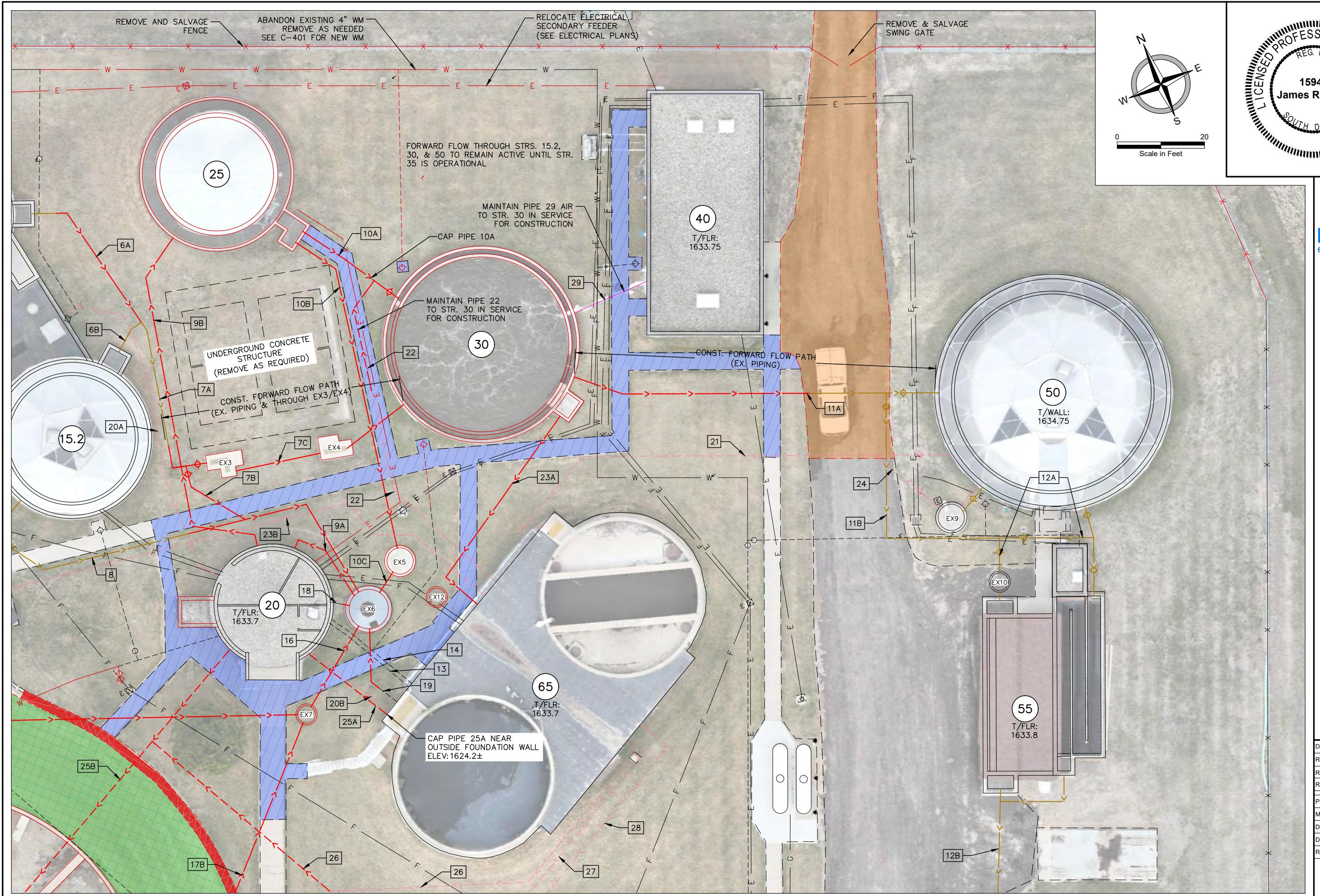
NO SCALE 06.26.25

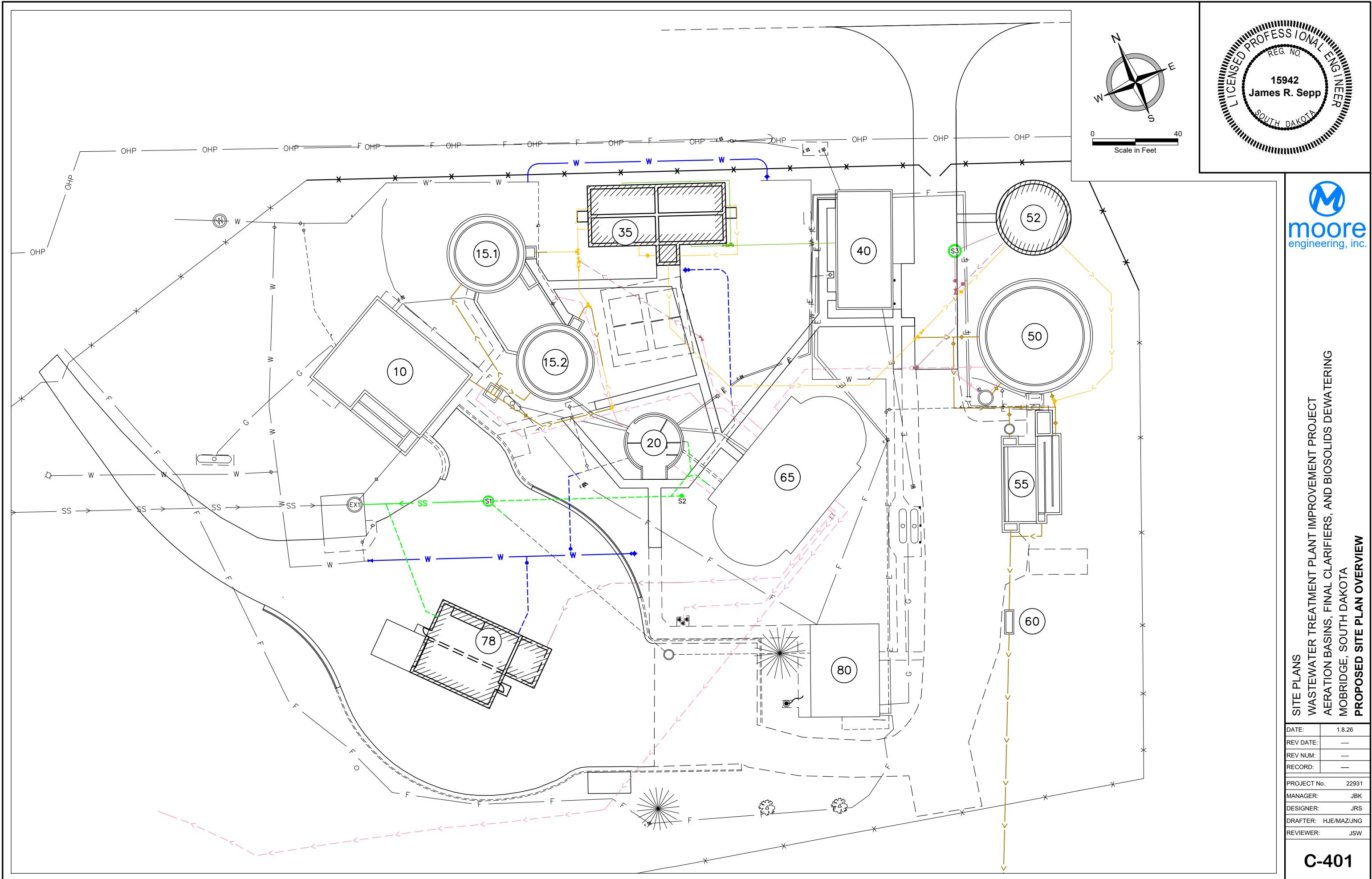
DETAILS
 WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
 AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
 MOBRIIDGE, SOUTH DAKOTA
 ROADWAY

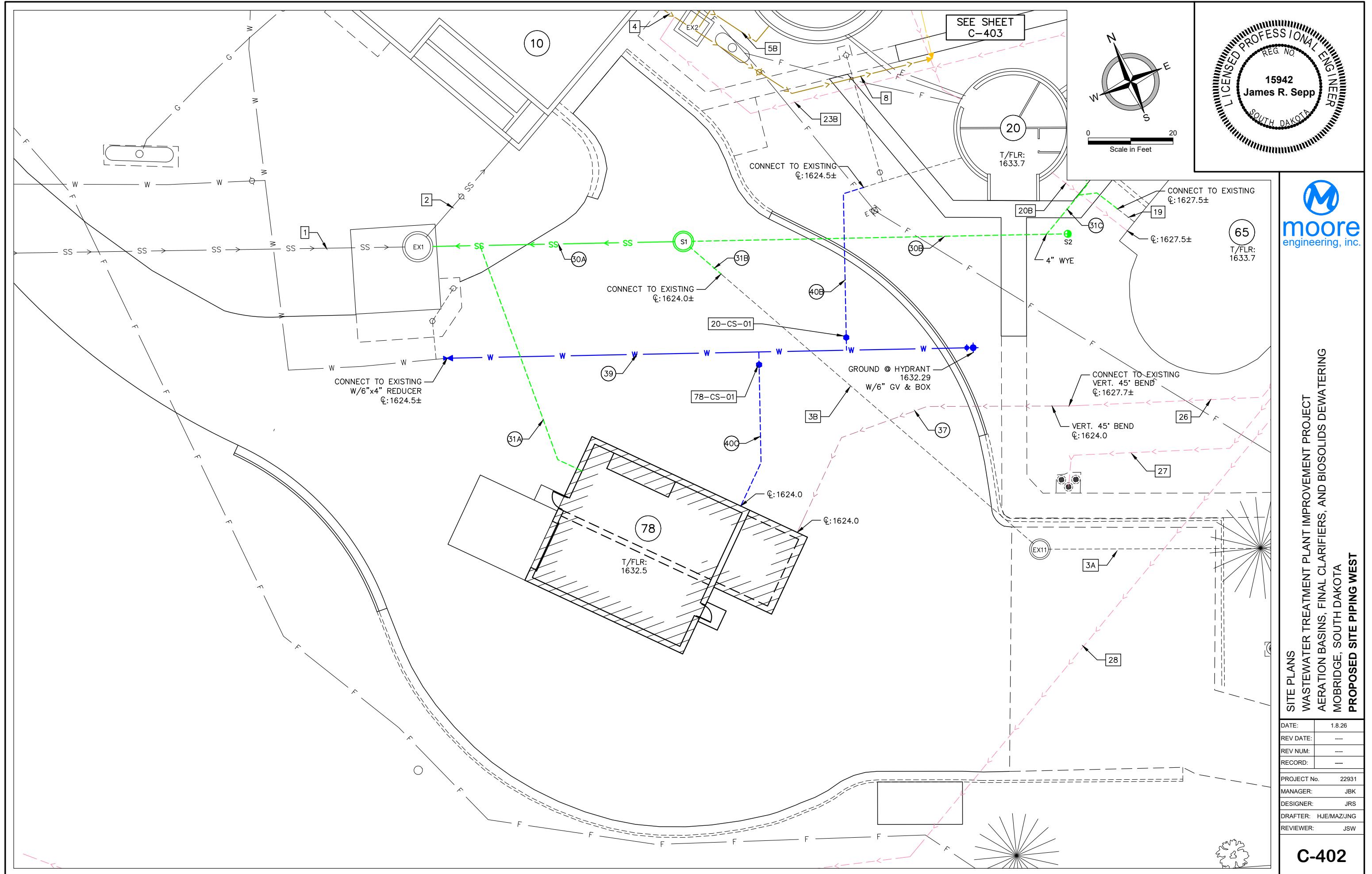
DATE:	1.8.26
REV DATE:	---
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PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

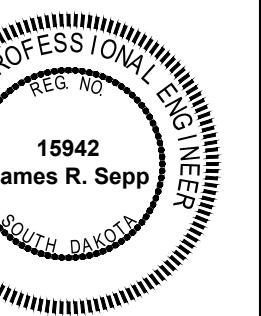
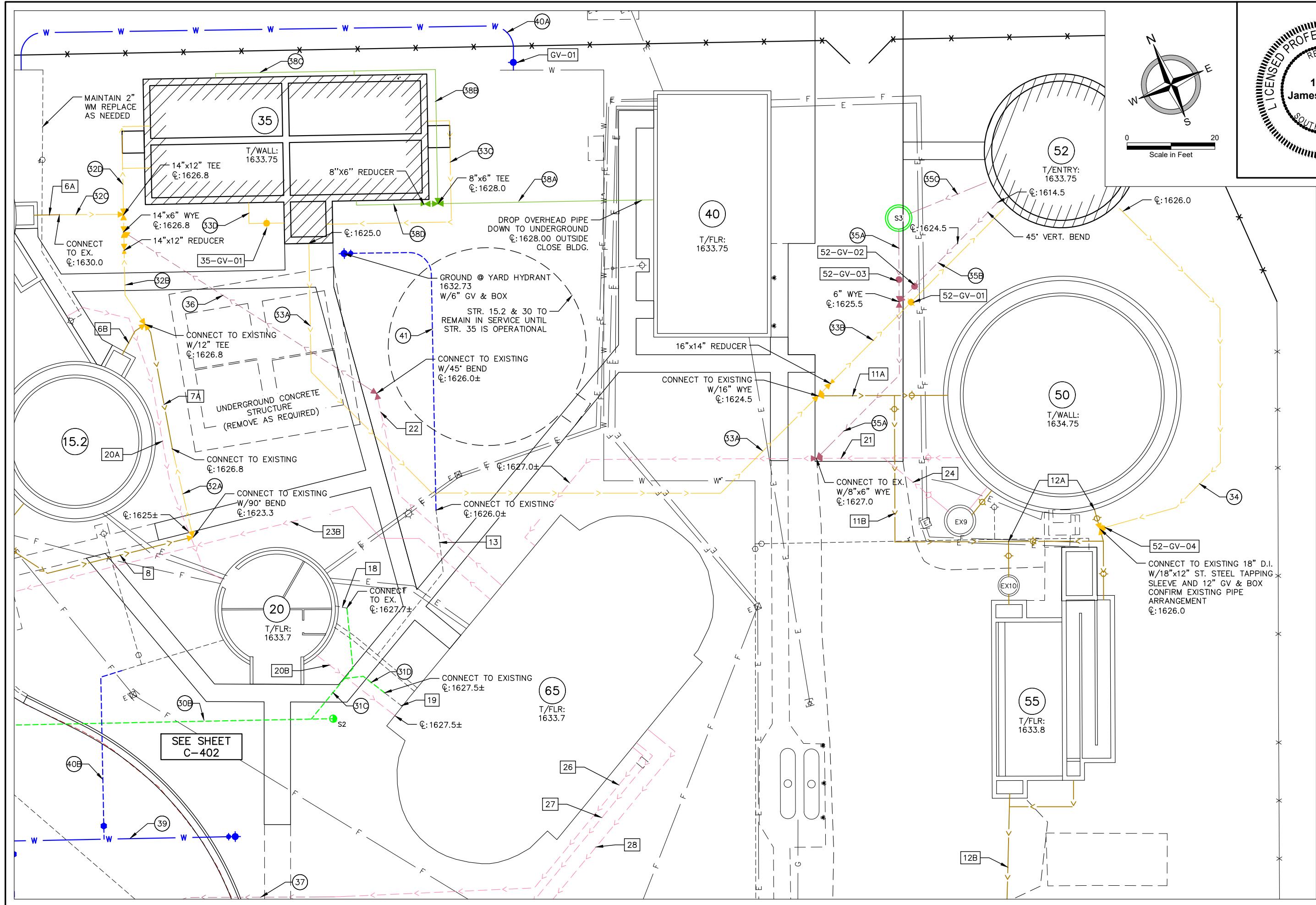








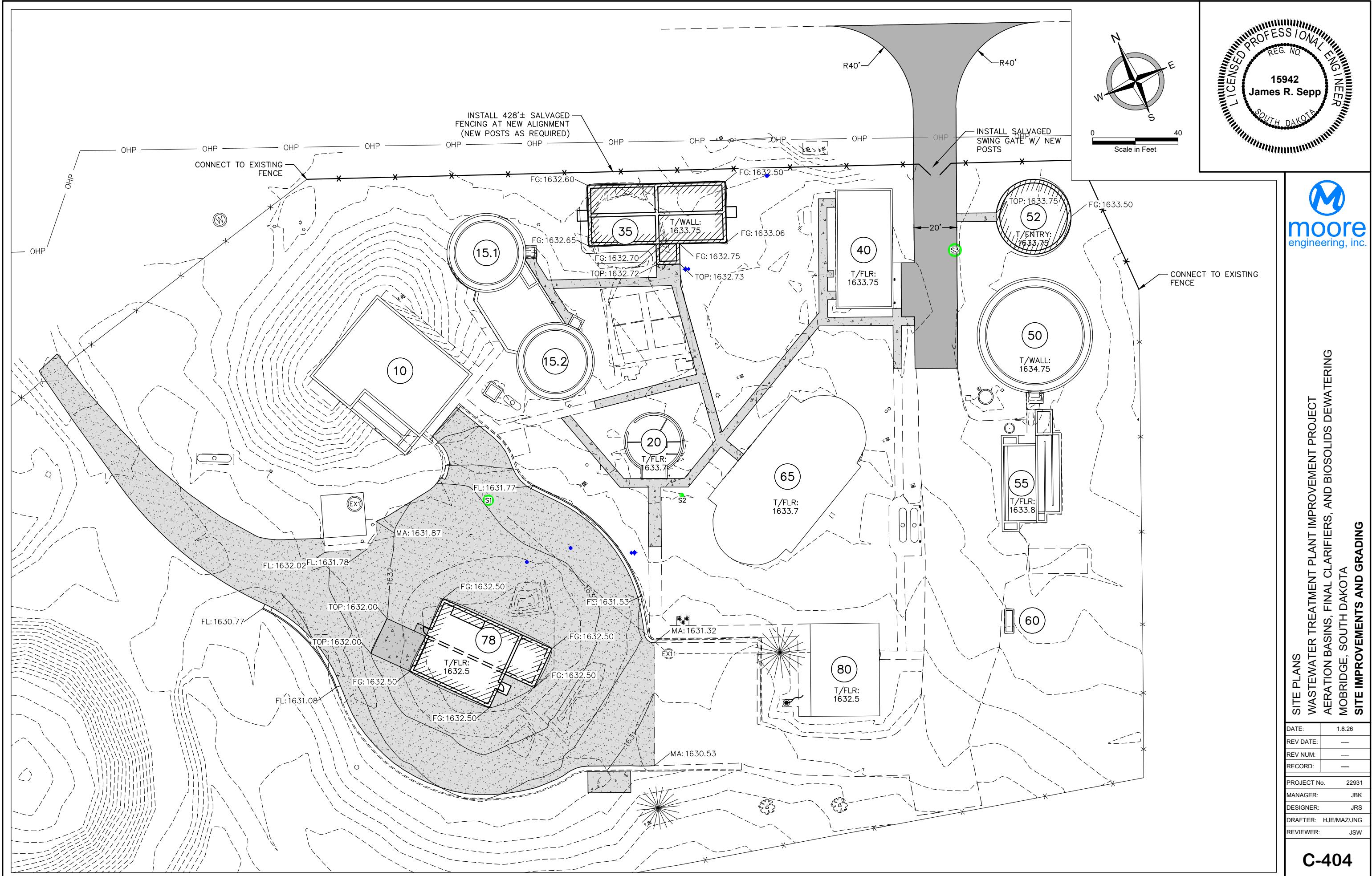




WASTEWATER TREATMENT PLAN IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
PROPOSED SITE PIPING EAST

ATE:	1.8.26
EV DATE:	---
EV NUM:	---
ECORD:	---
ROJECT No.	22931
ANAGER:	JBK
ESIGNER:	JRS
RFTER:	HJE/MAZ/JNG
EWEDER:	JGM

C-403

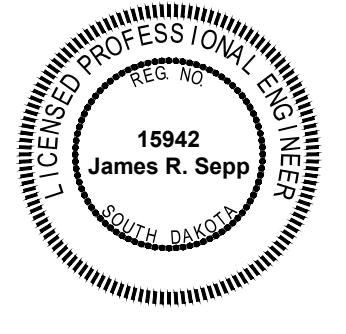


SITE PLANS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIIDGE, SOUTH DAKOTA

DATE:	1.8.26
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DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

C-404

PIPING SCHEDULE								
Pipe #	Name	Size (inches)	Material	Standard	Rating	From	To	Notes
EXISTING PIPING								
1	Influent WWTR	15	VCP	-	-	System	EX1	
2	Influent WWTR	18	Iron	-	-	EX1	STR10	
3A	Building Sewer	4	PVC	-	-	STR 80	EX11	
3B	Building Sewer	4	PVC	-	-	EX11	STR10	Partial Abandon/Reconnect
4	Pretreated WWTR	12	Iron	-	-	STR10	EX2	
5A	Pretreated WWTR	12	Iron	-	-	EX2	STR15.1	
5B	Pretreated WWTR	12	Iron	-	-	EX2	STR15.2	
6A	Primary Effi WWTR	12	Iron	-	-	STR15.1	PIPE6B	Partial Abandon/Reconnect
6B	Primary Effi WWTR	12	Iron	-	-	STR15.2	PIPE7A	
7A	Primary Effi WWTR	12	Iron	-	-	PIPE6B	EX3	Partial Abandon/Reconnect
7B	Primary Effi WWTR	12	Iron	-	-	PIPE7A	PIPE8	Abandon
7C	Primary Effi WWTR	12	Iron	-	-	EX3	EX4	Abandon
7D	Primary Effi WWTR	12	Iron	-	-	EX4	STR30	Abandon
8	Primary Effi WWTR	12	Iron	-	-	EX2	EX6	Partial Abandon/Reconnect
9A	Trickling Filter Infl WWTR	10	Iron	-	-	EX6	STR20	Abandon
9B	Trickling Filter Infl WWTR	12	Iron	-	-	STR20	STR25	Abandon
10A	Trickling Filter Effi WWTR	12	Iron	-	-	STR25	STR30	Abandon
10B	Trickling Filter Effi WWTR	12	Iron	-	-	STR25	EX5	Abandon
10C	Trickling Filter Effi WWTR	12	Iron	-	-	EX5	EX6	Abandon
11A	Mixed Liquor WWTR	16	Iron	-	-	STR30	STR50	Partial Abandon/Reconnect
11B	Mixed Liquor WWTR	18	Iron	-	-	PIPE11A	PIPE12A	
12A	Final Effi WWTR	18	Iron	-	-	STR50	EX10	
12B	Final Treated WWTF	18	Iron	-	-	STR55	STR60	Partial Abandon/Reconnect
12C	Final Treated WWTF	18	Iron	-	-	STR60	EX12	
13	Non-Potable Water (Boiler)	1	PVC	-	-	STR20	STR65	
14	Non-Potable Water	1	PVC	-	-	STR20	STR65	
15	Influent WWTR	15	VCP	-	-	EX1	EX7	Bypass - Partial Abandon/Reconnect
16	Influent WWTR	16	Iron	-	-	EX7	EX6	Bypass - Partial Abandon/Reconnect
17A	Decant WWTR/Drain	6	PVC	-	-	STR75	EX8	Abandon
17B	Decant WWTR/Drain	6	PVC	-	-	EX8	EX7	Abandon
18	Building Sewer	4	PVC	-	-	STR20	EX6	Partial Abandon/Reconnect
19	Building Sewer	6	Iron	-	-	STR65	EX6	Partial Abandon/Reconnect
20A	Primary Sludge	6	PVC	-	-	STR15	STR20	
20B	Primary Sludge	6	Iron	-	-	STR20	STR65	
21	Return Activated Sludge	8	Iron or PVC	-	-	STR50	STR65	
22	Return Activated Sludge	6	Iron or PVC	-	-	STR65	PIPE10	Partial Abandon/Reconnect
23A	Waste Activated Sludge	6	Iron or PVC	-	-	STR30	STR65	Abandon
23B	Waste Activated Sludge	6	Iron or PVC	-	-	STR65	PIPE4	
24	Clarifier Scum	6	Iron	-	-	EX9	PIPE21	
25A	Stabilized Sludge	6	Iron	-	-	STR65	STR20	Abandon
25B	Stabilized Sludge	6	Iron	-	-	STR20	STR75	Abandon
26	Stabilized Sludge	6	Iron	-	-	STR65	PIPE25B	Partial Abandon/Reconnect
27	Stabilized Sludge	6	Iron or PVC	-	-	STR65	Load Out	Transfer to load out pipe stand
28	Stabilized Sludge	6	Iron or PVC	-	-	STR65	Holding Cell	Transfer to sludge pond
29	Air Low Pressure	8	Iron	-	-	STR40	STR30	Abandon



SITE PLANS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

EXISTING SITE WORK SCHEDULES

EXISTING STRUCTURE SCHEDULE	
Structure #	Description
10	Influent and Pretreatment Building
15.1	Primary Clarifiers No. 1
15.2	Primary Clarifiers No. 2
20	Pump Station Control Building
25	Trickling Filter Tower
30	Aeration Basin
40	Blower Building
50	Final Clarifier
55	Disinfection Structure
60	Effluent Parshall Flume
65	Sludge Digestion Complex
75	Sludge Drying Bed
80	Laboratory / Office Building

MANHOLE SCHEDULE								
Manhole #	(inches)	Rim Elevation	Invert Elevations			Notes		
			Pipe 1	Pipe 2	Pipe 3			
EXISTING MANHOLES								
EX1	72"	1630.68	15"W: 1623.00	18"NE: 1623.00	15"E: 1623.00 (Remove)	8"E: 1623.30 (New)	Main influent	Existing
EX2	6' x 6'	1634.16	Base: 1622.90	12": 1623.90	-	-	Primary clarifier influent splitter	Existing
EX3	Irregular	1634.46	12"W: 1631.24	12"E: 1631.23	-	-	Bypass structure	Remove
EX4	Irregular	1634.43	12"W: 1630.94	12"E: 1630.71	-	-	Bypass structure	Remove
EX5	72"	1633.44	12": 1626.18	-	-	-	Trickling filter effluent recycle valve	Remove
EX6	108"	1634.25	Base: 1614.25	16"SW: 1621.25	12"NE: 1626.15	-	Recycle flow wet well structure	Remove
EX7	48"	1633.03	15"W: 1622.19	16"NE: 1622.38	6"SW: 1628.36	-	Influent bypass pretreatment	Remove
EX8	48"	1631.64	6"NE: 1629.54	-	-	-	Sludge drying bed drain	Remove
EX9	72"	1634.61	8"NW: 1617.39	6"NE: 1617.56	6"NE: 1624.56	-	Final clarifier #1 scum/drain	Existing
EX10	48"	1634.00	18"N: 1625.62	18"S: 1625.62	-	-	Final clarifier effluent	Existing
EX11	48"	1631.35	4"E: 1625.78	4"NW: 1624.64	-	-	Building sewer	Existing
EX12	48"	~1633.25	N/A	N/A	~1619.62	-	Sewer	Remove

DATE: 1.8.26
REV DATE: ----
REV NUM: ----
RECORD: ----
PROJECT No. 22931
MANAGER: JBK
DESIGNER: JRS
DRAFTER: HJE/MAZ/JNG
REVIEWER: JSW

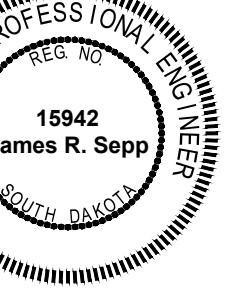
PIPING SCHEDULE								
Pipe #	Name	Size (inches)	Material	Standard	Rating	From	To	Notes
NEW PIPING								
30A	Sanitary WWTR	8	PVC	D3034	DR35	S1	EX1	Connect to EX1 and seal opening
30B	Sanitary WWTR	4	PVC	D3034	DR35	S2	S1	
31A	Sanitary WWTR	6	PVC	D3034	DR35	STR78	S1	
31B	Sanitary WWTR	4	PVC	D3034	DR35	PIPE3B	S1	Connect to existing
31C	Sanitary WWTR	4	PVC	D3034	DR35	PIPE18	S2	Reconnect ex. w/ rubber coupling
31D	Sanitary WWTR	4	PVC	D3034	DR35	PIPE19	PIPE31C	Reconnect ex. w/ 6"x4" rubber coupling
32A	Primary Effi WWTR	12	PVC	C900	DR25	PIPE8	PIPE7A	Connect to existing
32B	Primary Effi WWTR	12	PVC	C900	DR25	PIPE6B	PIPE32C	Connect to existing
32C	Primary Effi WWTR	12	PVC	C900	DR25	PIPE6A	PIPE32B	Connect to existing
32D	Primary Effi WWTR	14	PVC	C900	DR25	PIPE32B	STR35	
33A	Mixed Liquor WWTR	16	PVC	C900	DR25	STR35	PIPE11A	Connect to pipe 11A and 33B w/16 wye
33B	Mixed Liquor WWTR	14	PVC	C900	DR25	PIPE33A	STR52	
33C	Mixed Liquor WWTR	18	PVC	C900	DR25	STR35	STR35	
33D	Mixed Liquor WWTR	6	PVC	C900	DR25	STR35	STR35	
34	Final Treated WWTF	12	PVC	C900	DR25	STR52	PIPE12A	Connect to existing w/ tapping sleeve
35A	Return Activated Sludge	6	PVC	C900	DR25	S3	PIPE21	Connect to Pipe21 w/ 8"x6" wye
35B	Return Activated Sludge	6	PVC	C900	DR25	STR52	PIPE35A	
35C	Clarifier Scum	6	PVC	C900	DR25	STR52	S3	
36	Return Activated Sludge	6	PVC	C900	DR25	PIPE22	PIPE32D	Connect to existing
37	Stabilized Sludge	6	PVC	C900	DR25	PIPE26	STR78	Reconnect to existing
38A	Air Low Pressure	8	DI	C151	CL52	STR40	PIPE38B	
38B	Air Low Pressure	6	DI	C151	CL52	PIPE38A	STR35	
38C	Air Low Pressure	4	DI	C151	CL52	PIPE38A	STR35	
38D	Air Low Pressure	4	DI	C151	CL52	PIPE38A	STR35	
39	Potable Water	6	PVC	C900	DR18	SEE PLAN		
40A	Potable Water	4	PVC	C900	DR18	SEE PLAN		
40B	Potable Water	2	HDPE	D2239	DR9	SEE PLAN		
40C	Potable Water	2	HDPE	D2239	DR9	SEE PLAN		
41	Non-Potable Water	1	HDPE	D2239	DR9	SEE PLAN		

PROPOSED STRUCTURE SCHEDULE	
Structure #	Description
10	Influent and Pretreatment Building
15.1	Primary Clarifiers No. 1
15.2	Primary Clarifiers No. 2
20	Pump Station Control Building
35	Selector/Aeration Basins
40	Blower Building
50	Final Clarifier #1
52	Final Clarifier #2
55	Disinfection Structure
60	Effluent Parshall Flume
65	Sludge Digestion Complex
78	Biosolids Dewatering Building
80	Laboratory / Office Building

MANHOLE SCHEDULE								
Manhole #	(inches)	Rim Elevation	Invert Elevations			Notes		
			Pipe 1	Pipe 2	Pipe 3			
NEW MANHOLES								
S1	48"	1632.02	8"W: 1623.52	6"S: 1623.52	4"E: 1623.52	4"SE: 1623.52		New
S2	Cleanout	1633.00	4"W: 1624.50	-	-	-	Cleanout w/ 4" removable threaded cap	New
S3	48"	1633.50	6"SW: 1619.50	6" E: 1624.00	-	-		New

PROCESS VALVE AND INSTRUMENTATION SCHEDULE								
Tag	Service	Size (in)	Type	Body	Actuator	Valve	Note	Status
					Control	Type		
52-GV-01	Mixed liquor WWTR influent to STR 52	14	Gate	Mechanical	Manual	Nut	Open	See Detail Sheet C-202, With valve box adapter, box, and "SEWER" cap
52-GV-02	Return Activated Sludge	6	Gate	Mechanical	Manual	Nut	Open	See Detail Sheet C-202, With valve box adapter, box, and "SEWER" cap
52-GV-03	Return Activated Sludge	6	Gate	Mechanical	Manual	Nut	Open	See Detail Sheet C-202, With valve box adapter, box, and "SEWER" cap
52-GV-04	Final Treated WWTF effluent	12	Gate	Mechanical	Manual	Nut	Open	See Detail Sheet C-202, With valve box adapter, box, and "SEWER" cap
GV-01	Potable Water	4	Gate	Mechanical	Manual	Nut	Open	See Detail Sheet C-202, With valve box adapter, box, and "WATER" cap
20-CS-01	Water service line to STR 20	2	Curb Valve	Threaded	Manual	Nut	Open	See Detail Sheet C-202
78-CS-01	Water service line to STR 78	2	Curb Valve	Threaded	Manual	Nut	Open	See Detail Sheet C-202

*NOTE: NOT ALL EXISTING VALVES AND INSTRUMENTATION AT THE WASTEWATER TREATMENT PLANT ARE IN THE PROCESS AND INSTRUMENTATION SCHEDULE'S



moore
engineering, inc.

SITE PLANS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

PROPOSED SITE WORK SCHEDULES

C-602

DATE: 1.8.26
REV DATE: ---
REV NUM: ---
RECORD: ---
PROJECT No. 22931
MANAGER: JBK
DESIGNER: JRS
DRAFTER: HJE/MAZ/JNG
REVIEWER: JSW

LEGEND:

OFFICE	101	ROOM NAMES ROOM NAME ROOM NUMBER
	1	BUILDING ELEVATIONS / SECTIONS ELEVATION NUMBER SHEET NUMBER
101	A	DOORS DOOR NUMBER DOOR LETTER REFER TO SHEET A78-601 FOR SCHEDULE
	A	WALL TYPES WALL TYPE WALL TYPE NOTE
1	A601	DETAIL MARK DETAIL NUMBER SHEET NUMBER
1	A701	INTERIOR ELEVATION ELEVATION NUMBER SHEET NUMBER
T1		EQUIPMENT EQUIPMENT NUMBER
	1	PLAN KEYNOTE ITEM NUMBER - REFER TO SPECIFIC NOTES

WALL TYPE SCHEDULE

TYPE	STYLE	PLAN VIEW
A	16" CONCRETE WATERPROOFING MEMBRANE	
B	8" CMU FLUID APPLIED AIR INFILTRATION BARRIER 3" RIGID INSULATION AIR SPACE 4" BRICK MASONRY VENEER	
C	16" CONCRETE WATERPROOFING MEMBRANE 2" RIGID INSULATION EXTEND RIGID INSULATION TO 5' BELOW GRADE	

GENERAL PLAN NOTES:

1. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER.
2. GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
3. GENERAL CONTRACTOR TO COORDINATE OWNER PROVIDED EQUIPMENT INSTALLATION.
4. ALL WORK SHALL MEET ALL APPLICABLE BUILDING CODES AND REQUIREMENTS.

SPECIFIC PLAN NOTES:

- 1 Dewatering equipment; refer to Civil
- 2 Floor hatch; refer to Civil
- 3 Splashblock; refer to detail 1/A78-106
- 4 Extend foundation insulation 2'-0" onto face of tank foundation
- 5 Floor drain; mechanical contractor provided, general contractor installed; refer to Mechanical
- 6 48"x48" mechanical louver above; refer to details on A78-605
- 7 Opening in concrete; refer to Civil and Structural
- 8 Mechanical penetrations; refer to Mechanical

CODE INFORMATION:

OCCUPANCY CLASSIFICATION: U - UTILITY

TYPE OF CONSTRUCTION: TYPE V-B

OCCUPANCY LOAD: 7 OCCUPANTS (PER 1004.1.2)

BASE ALLOWABLE AREA (TABLE 506.2): 5,500 SF PER FLOOR
ACTUAL AREA: 1,394 SF (MAIN FLOOR)
647 SF (LOWER FLOOR)

STORIES ALLOWED (PER 504.3): 1
ACTUAL STORIES: 1

NOTES:

1. INFORMATION BASED ON 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (2021 IBC).
2. ALL CONSTRUCTION TO MEET ALL APPLICABLE CODES, INCLUDING 2021 IBC.
3. TYPE OF CONSTRUCTION IS ASSUMED BASED ON PROPOSED CONSTRUCTION.
4. FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS. MAXIMUM FLOOR AREA FOR EACH EXTINGUISHER = 11,250 SF AND MAXIMUM TRAVEL DISTANCE OF 75 FEET. A FIRE EXTINGUISHER IS PROVIDED.
5. PER TABLE 1004.5; MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT ARE DEFINED AS FOLLOWS:
 - A. MECHANICAL EQUIPMENT ROOM - 300 GROSS
6. THE BUILDING WILL NOT BE EQUIPPED WITH A FIRE SUPPRESSION SYSTEM.
7. PER 1103.2.4; GROUP U OCCUPANCIES ARE NOT REQUIRED TO BE ACCESSIBLE.
8. PER 2902.1; GROUP U OCCUPANCIES ARE NOT REQUIRED TO HAVE PLUMBING FIXTURES.
9. ADDITIONAL MECHANICAL OR ELECTRICAL INFORMATION BASED UPON THE FOLLOWING CODES:
 - 2021 INTERNATIONAL FIRE CODE
 - 2021 INTERNATIONAL MECHANICAL CODE
 - 2021 INTERNATIONAL FUEL GAS CODE
 - 2021 INTERNATIONAL ENERGY CONSERVATION CODE
 - 2024 INTERNATIONAL PLUMBING CODE
 - 2023 NATIONAL ELECTRICAL CODE
 - SOUTH DAKOTA ELECTRICAL COMMISSION'S WIRING BULLETIN
 - SOUTH DAKOTA CODIFIED LAW (SDCL) CHAPTER 36-16
 REFER TO MECHANICAL AND ELECTRICAL FOR MORE INFORMATION.

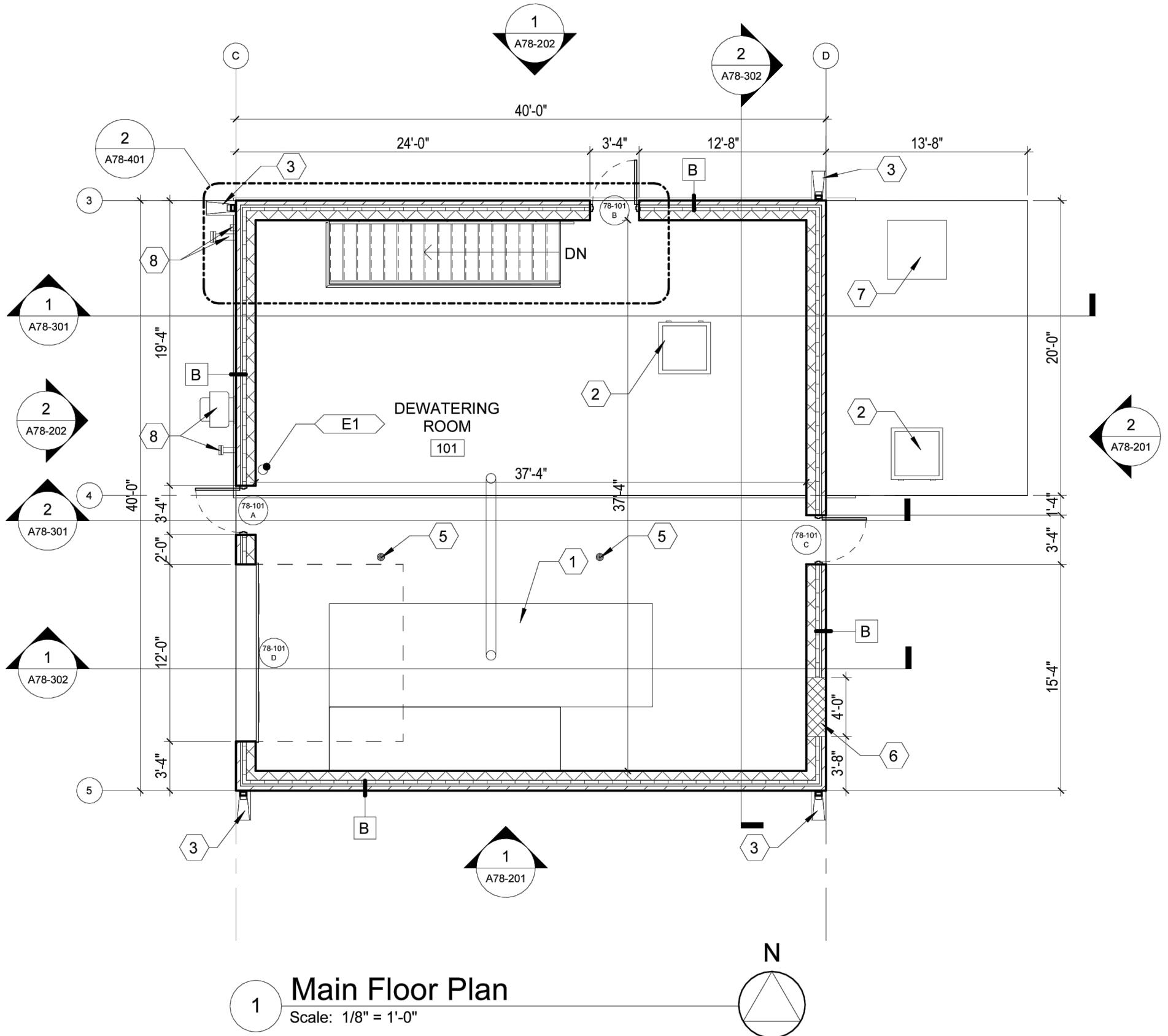
EQUIPMENT SCHEDULE

NO.	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING HEIGHT	NOTES
E1	FIRE EXTINGUISHER	J.L. INDUSTRIES	COSMIC 10E	48" TO TOP	PROVIDE WALL MOUNTED BRACKET MB846 COORDINATE FINAL LOCATION WITH OWNER



ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - SCHEDULES AND NOTES

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



Main Floor Plan

Scale: 1/8" = 1'-0"

N



WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - MAIN FLOOR PLAN

:	01/08/2026
DATE:	
NUM:	
ORD:	
ECT No.	J22530
AGER:	J. DEVINE
GNER:	C. MEYER
TER:	C. MEYER
EWER:	

A78-102

J2
studio
architecture + design, pc

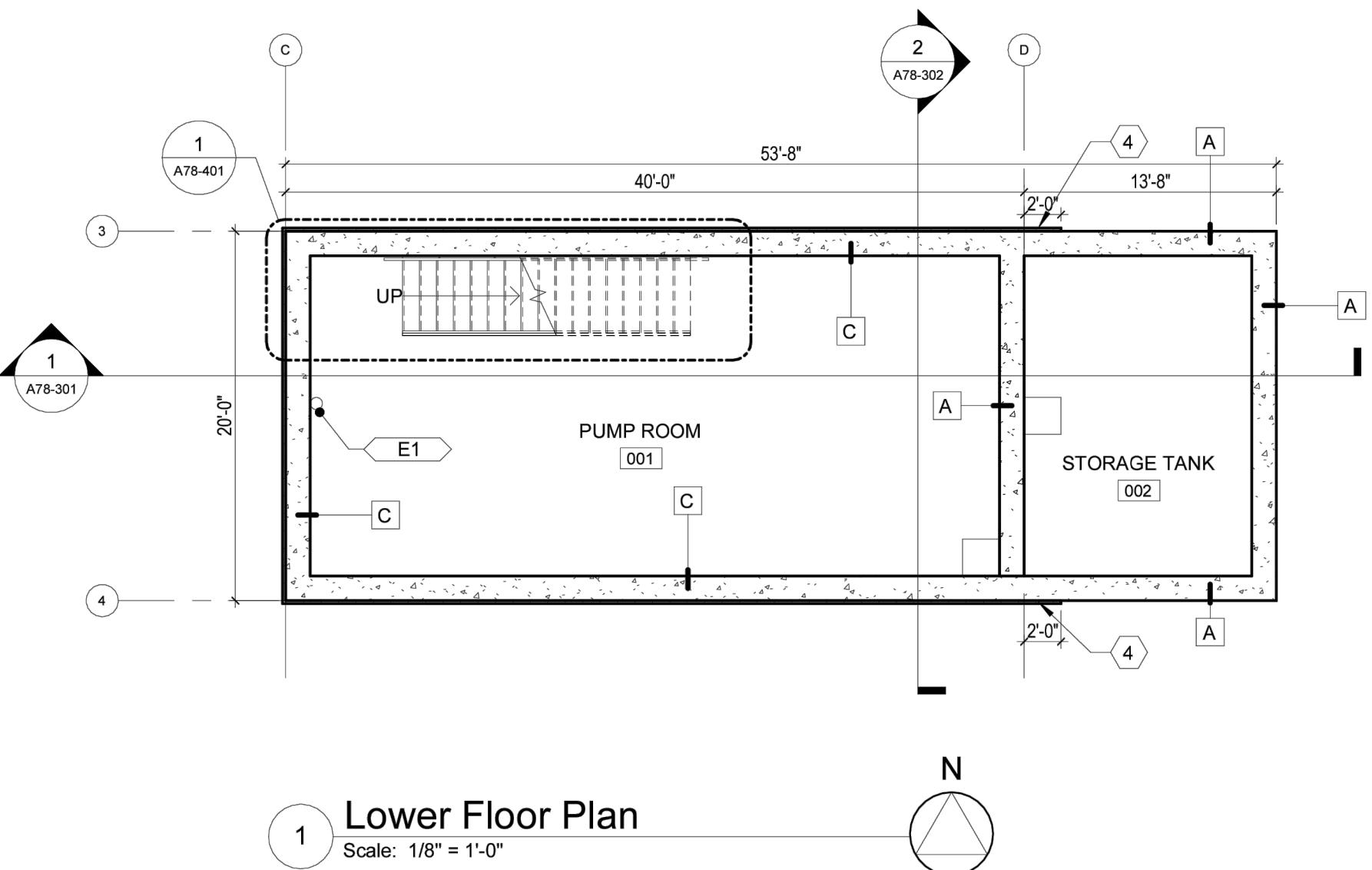
studio
architecture + design, pc

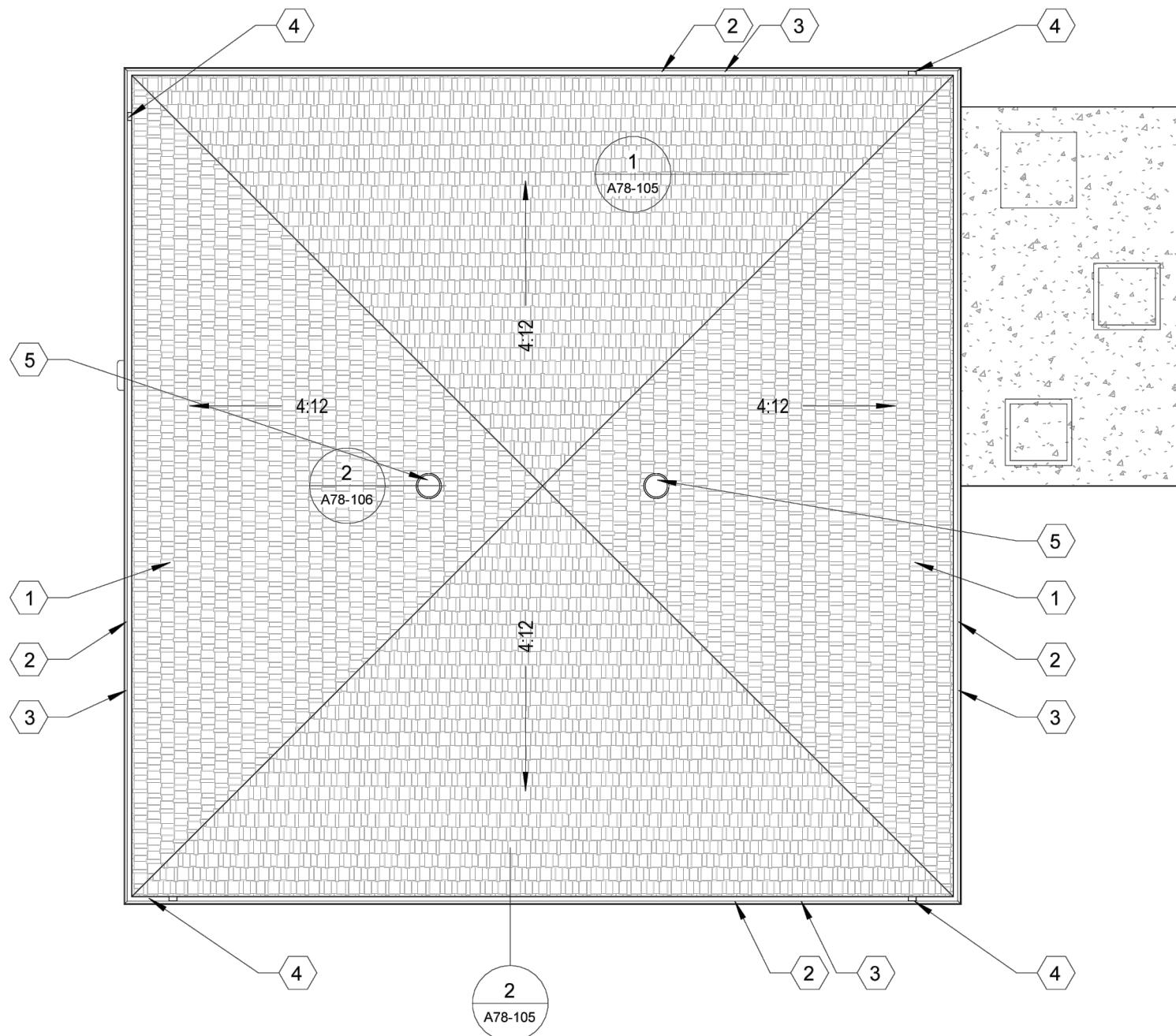
A78-102



ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - LOWER FLOOR PLAN

DATE:	01/08/2026
REV DATE:	
REV NUM:	
RECORD:	
PROJECT No.	J22530
MANAGER:	J. DEVINE
DESIGNER:	C. MEYER
DRAFTER:	C. MEYER
REVIEWER:	





1 Roof Plan

Scale: 1/8" = 1'-0"

GENERAL ROOF PLAN NOTES:

1. THE FOLLOWING REFERENCES HAVE BEEN USED AS A BASIS OF DESIGN FOR THE ROOFING WORK OF THE PROJECT AND SHALL BE USED BY THE CONTRACTOR TO DETERMINE REQUIREMENTS FOR FABRICATION AND/OR INSTALLATION WHEN NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:
 - 1.1 2021 INTERNATIONAL BUILDING CODE
 - 1.2 MATERIAL MANUFACTURER'S MOST RECENT PRINTED SPECIFICATIONS AND DETAILS.
 - 1.3 ALL OTHER APPLICABLE CODES AND REGULATIONS FOR THE CITY OF MOBRIDGE.
2. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PROVIDE AND INSTALL PROTECTION OVER, UNDER, AND/OR AROUND ALL SERVICE LINES, BUILDING COMPONENTS, SIDEWALKS, PAVEMENT, AND LANDSCAPING WHICH COULD BE DAMAGED OR SOILED WHILE PERFORMING THE WORK OF THE CONTRACT.
3. DETAILS IN THE PROJECT DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT.
 - 3.1 DETAILS NOTED ARE 'TYPICAL' AND IMPLY SIMILAR CONDITIONS TREATED SIMILARLY. MODIFICATIONS TO BE MADE BY THE CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
4. ALL PENETRATION DETAILS PER MANUFACTURER'S STANDARD DETAILS.
5. ALL SYSTEMS SHALL BE PER MANUFACTURER'S STANDARDS FOR PRODUCT WARRANTIES. CONTRACTOR TO PROVIDE COMPLETE ROOFING SYSTEM, INCLUDING, BUT NOT LIMITED TO, UNDERLAYMENTS, ICE AND WATER BARRIERS, VAPOR RETARDERS, COVER BOARDS, AND INSULATION.
6. MECHANICAL PENETRATIONS; REFER TO MECHANICAL DRAWINGS FOR MECHANICAL PENETRATIONS.
7. PLUMBING PENETRATIONS; REFER TO PLUMBING DRAWINGS FOR PLUMBING PENETRATIONS.
8. ELECTRICAL PENETRATIONS REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL PENETRATIONS.

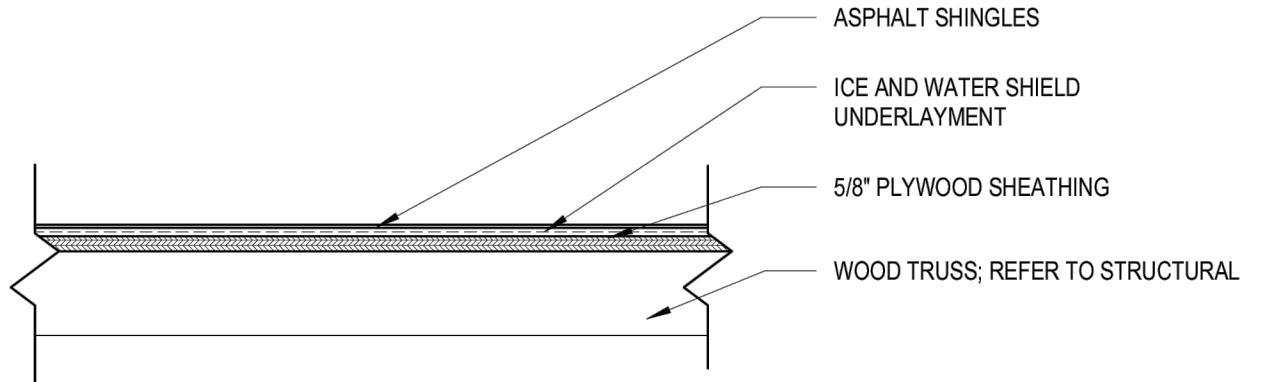
SPECIFIC ROOF PLAN NOTES:

- 1 ASPHALT SHINGLES; MANU - CERTAINTEED LANDMARK PRO SHINGLES; COLOR - BLACK WALNUT
- 2 PREFINISHED METAL FASCIA; PAC-CLAD; COLOR - MEDIUM BRONZE
- 3 PREFINISHED METAL GUTTER; PAC-CLAD; COLOR - MEDIUM BRONZE
- 4 PREFINISHED METAL DOWNSPOUT; PAC-CLAD; COLOR - MEDIUM BRONZE
- 5 ATTIC VENT; BASIS-OF-DESIGN WHIRLYBIRD BIB-14; WEATHERED BRONZE



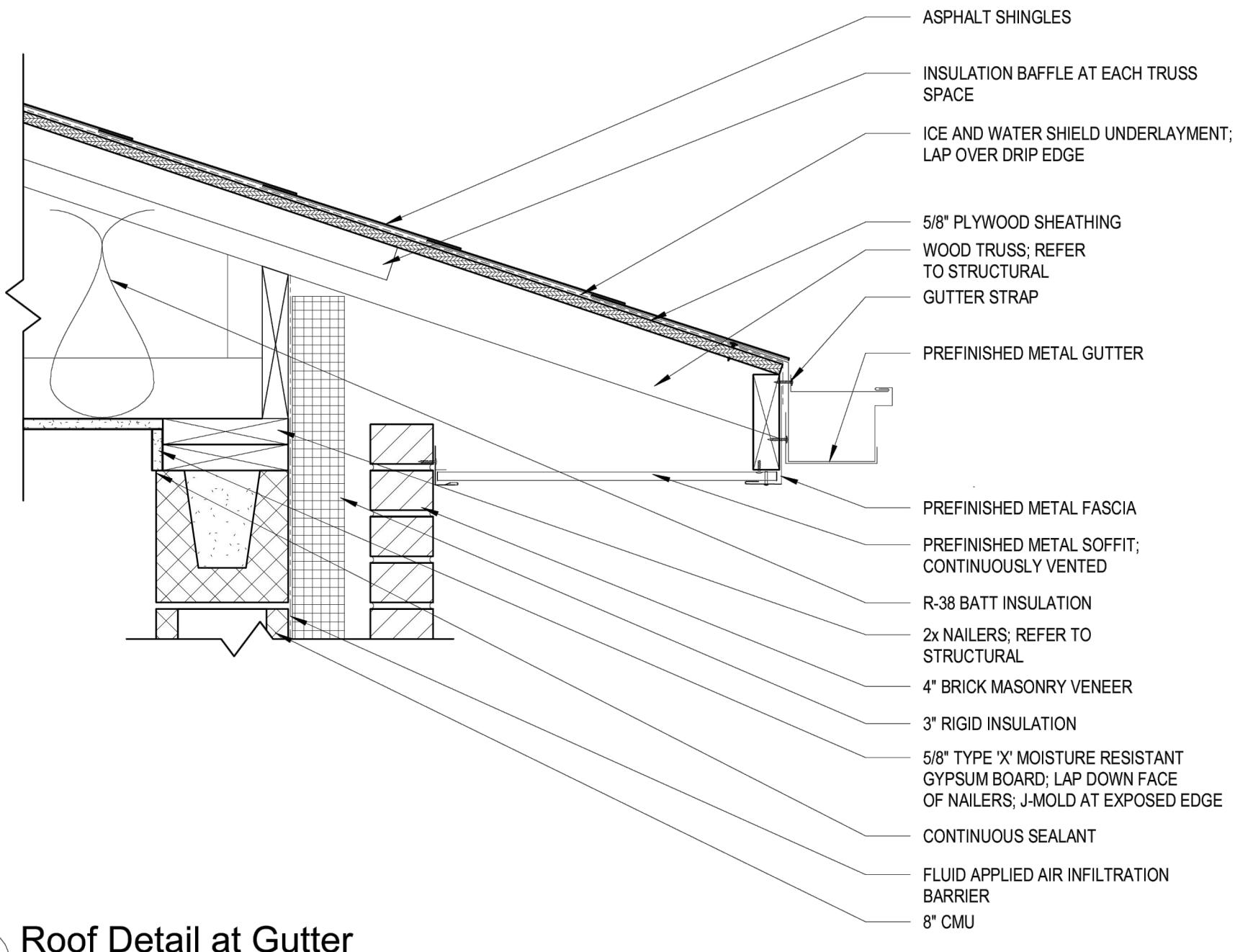
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - ROOF PLAN

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



1 Typical Roof Section at Shingle Roof

Scale: 1 1/2" = 1'-0"

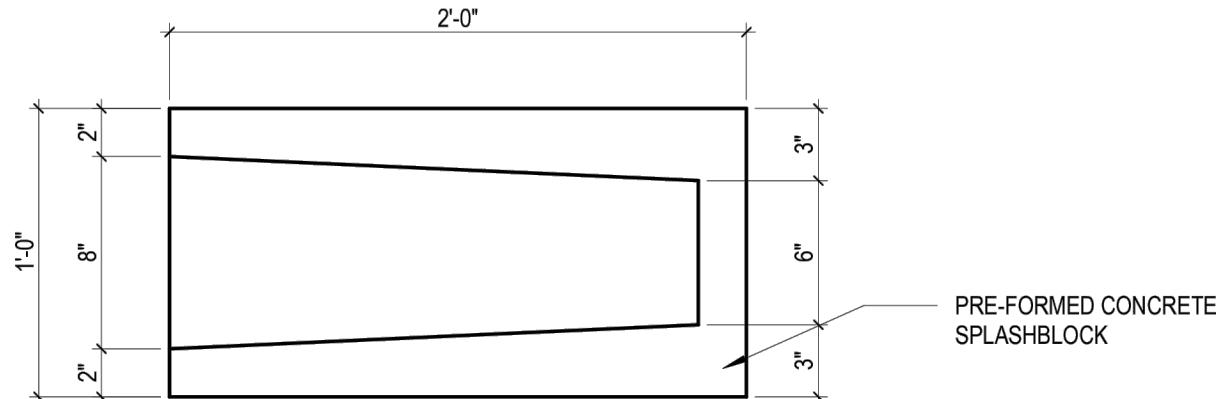


2 Roof Detail at Gutter

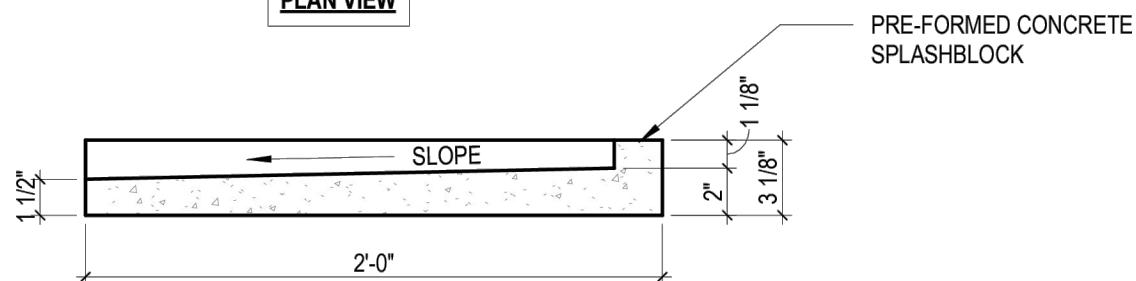
Scale: 1 1/2" = 1'-0"

ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - ROOF DETAILS

DATE:	01/08/2026
REV DATE:	
REV NUM:	
RECORD:	
PROJECT No.	J22530
MANAGER:	J. DEVINE
DESIGNER:	C. MEYER
DRAFTER:	C. MEYER
REVIEWER:	



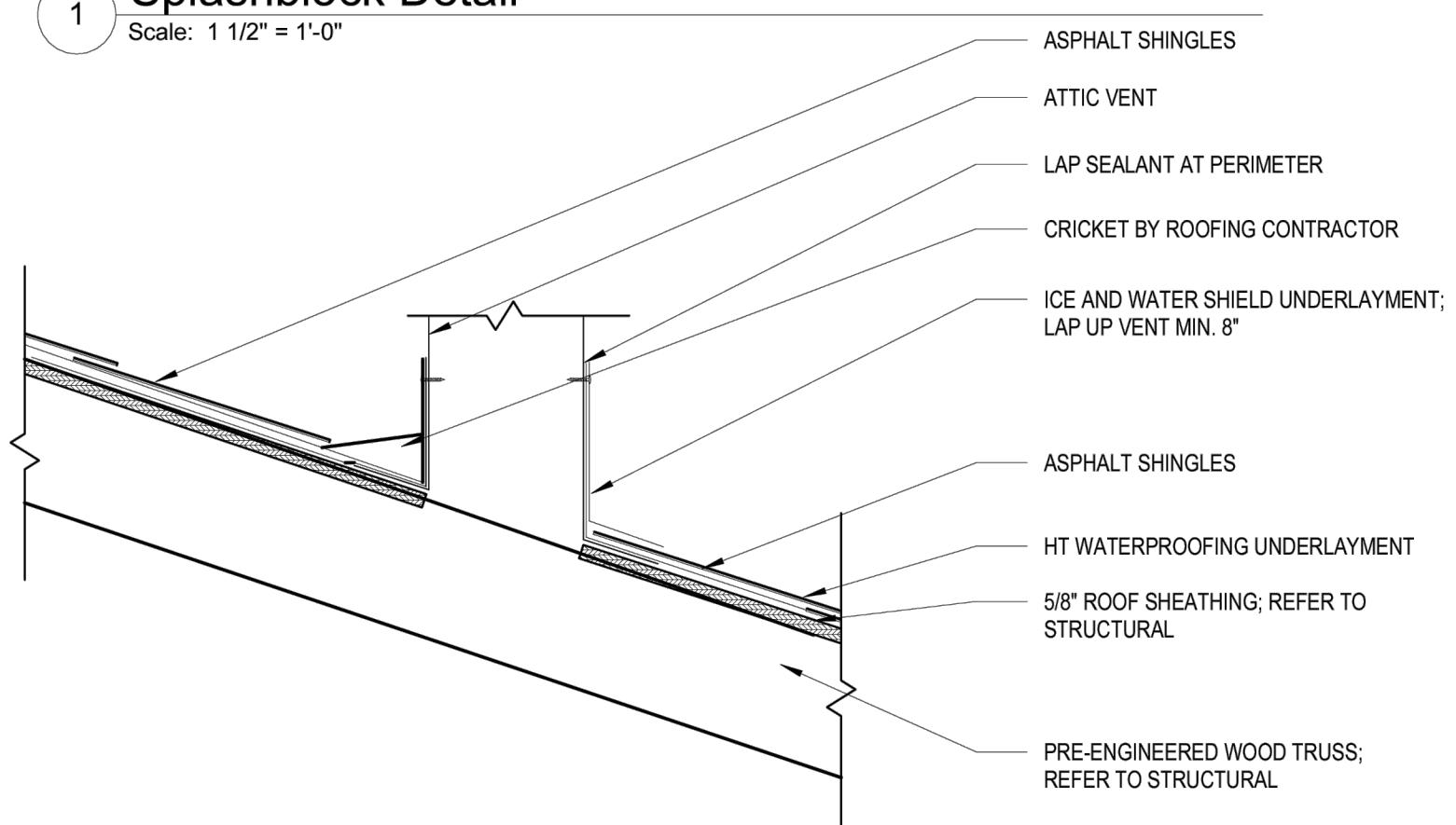
PLAN VIEW



SECTION VIEW

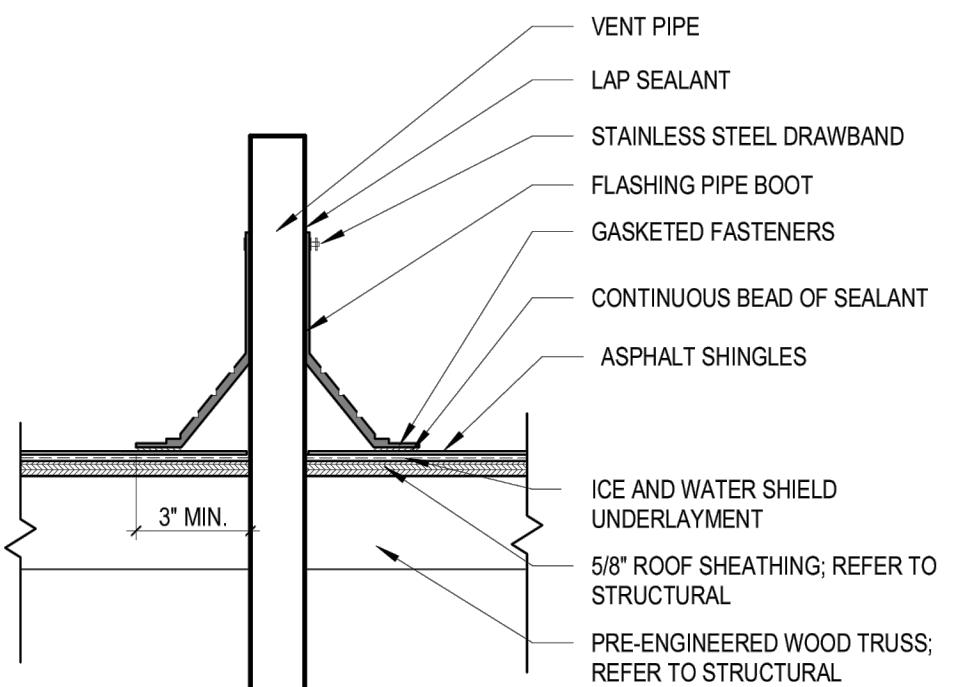
1 Splashblock Detail

Scale: 1 1/2" = 1'-0"



2 Attic Vent Detail

Scale: 1 1/2" = 1'-0"

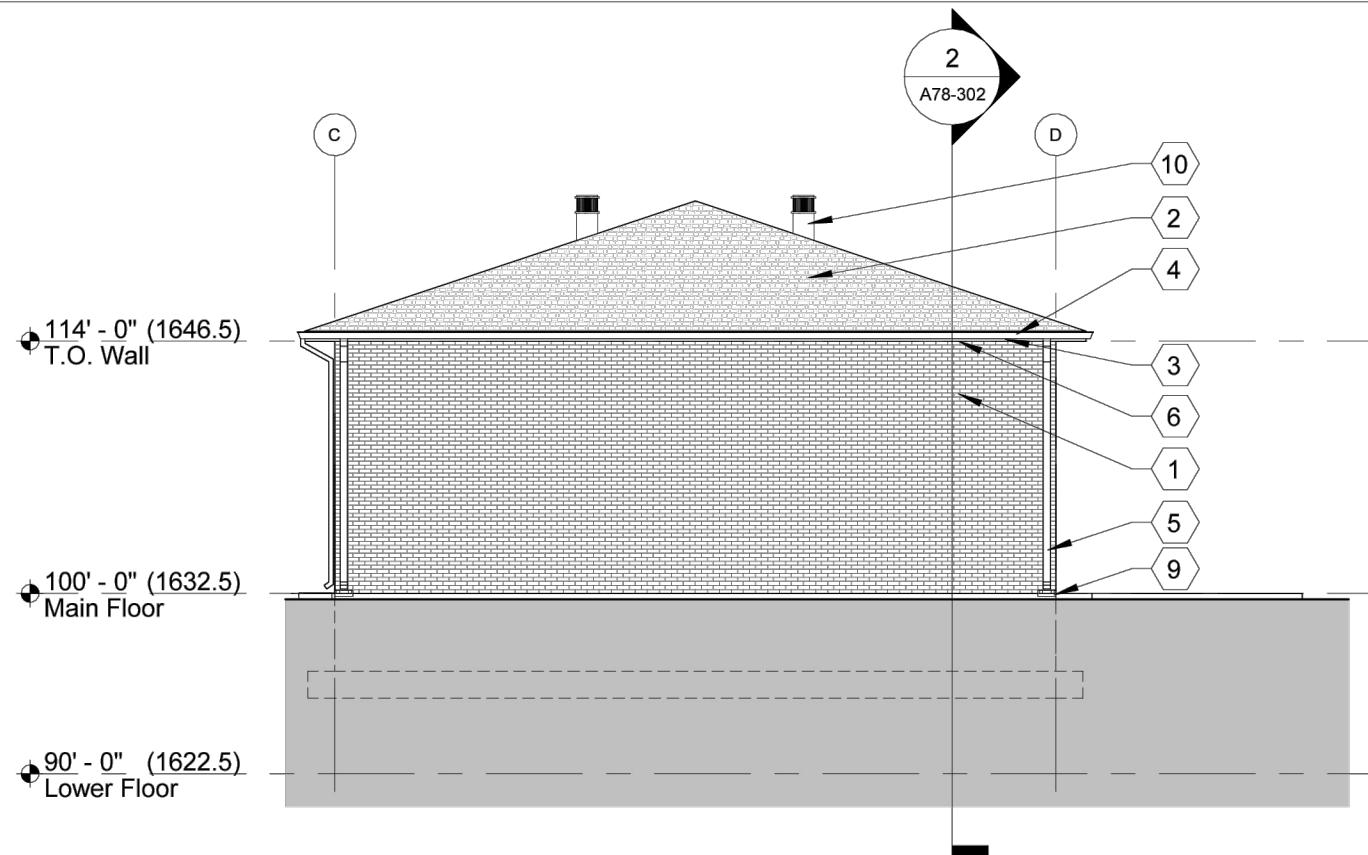


3 Typical Vent Thru Roof Detail

Scale: 1 1/2" = 1'-0"

ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - ROOF DETAILS

DATE: 01/08/2026
REV DATE:
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PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
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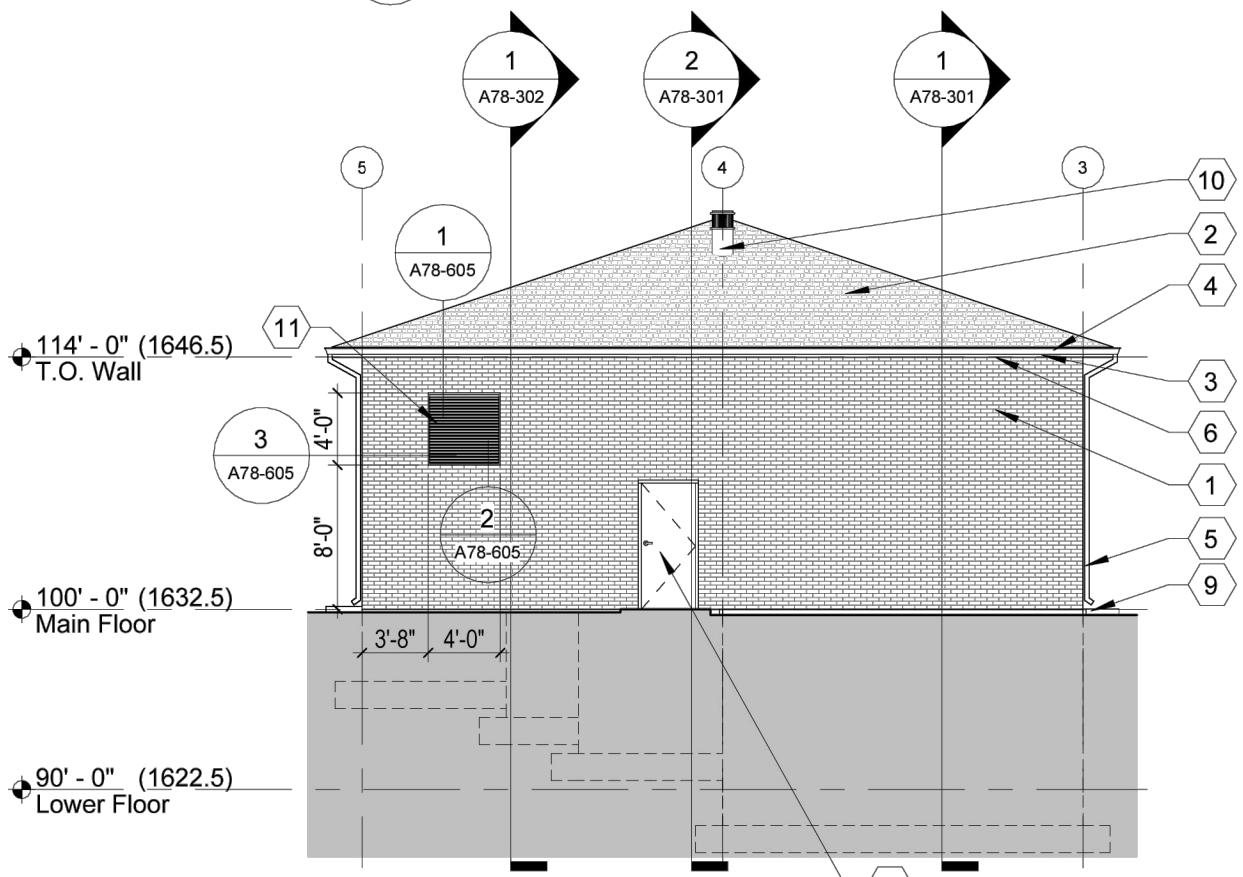


1 South Exterior Elevation

Scale: 3/32" = 1'-0"

SPECIFIC ELEVATION NOTES:

- 1 BRICK MASONRY VENEER; MANU - HEBRON BRICK; COLOR - MATCH EXISTING
- 2 ASPHALT SHINGLES; MANU - CERTAINTEED LANDMARK SHINGLES; COLOR - BLACK WALNUT
- 3 PREFINISHED METAL FASCIA; PAC-CLAD; COLOR - MEDIUM BRONZE
- 4 PREFINISHED METAL GUTTER; PAC-CLAD; COLOR - MEDIUM BRONZE
- 5 PREFINISHED METAL DOWNSPOUT; PAC-CLAD; COLOR - MEDIUM BRONZE
- 6 PREFINISHED METAL SOFFIT; PAC-CLAD FLUSH SOFFIT; COLOR - MEDIUM BRONZE
- 7 FIBERGLASS DOOR AND FRAME; TIGER DOOR LLC; COLOR - MEDIUM BRONZE
- 8 OVERHEAD SECTIONAL DOOR
- 9 SPLASHBLOCK; REFER TO DETAIL 1/A78-106
- 10 ATTIC VENT; BASIS-OF-DESIGN WHIRLYBIRD BIB-14; WEATHERED BRONZE
- 11 LOUVER; REFER TO MECHANICAL
- 12 PREFINISHED METAL BRAKE METAL FOUNDATION INSULATION FLASHING; MANU - PAC-CLAD; COLOR - MEDIUM BRONZE
- 13 MECHANICAL PENETRATION; REFER TO MECHANICAL



2 East Exterior Elevation

Scale: 3/32" = 1'-0"

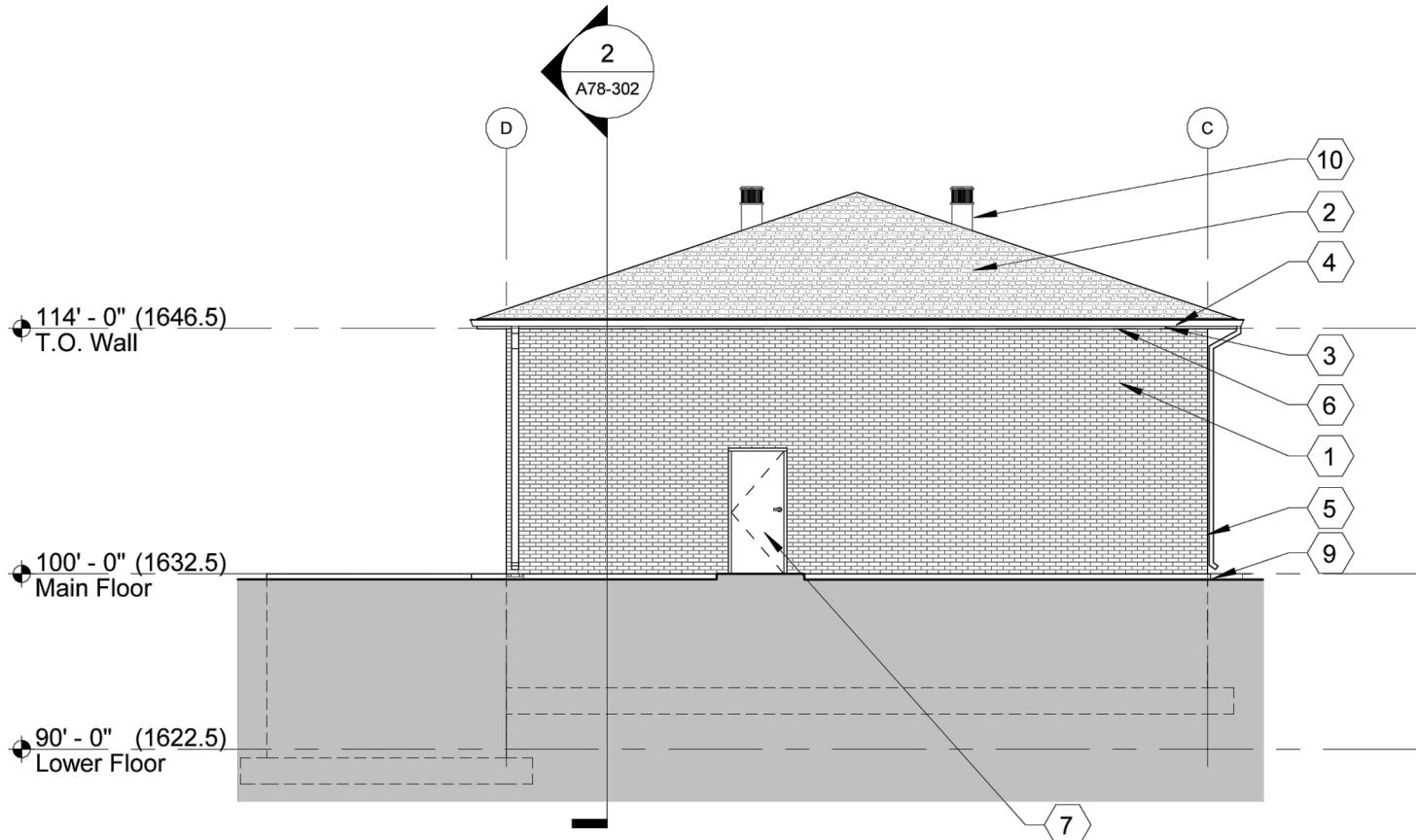


ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - EXTERIOR ELEVATIONS

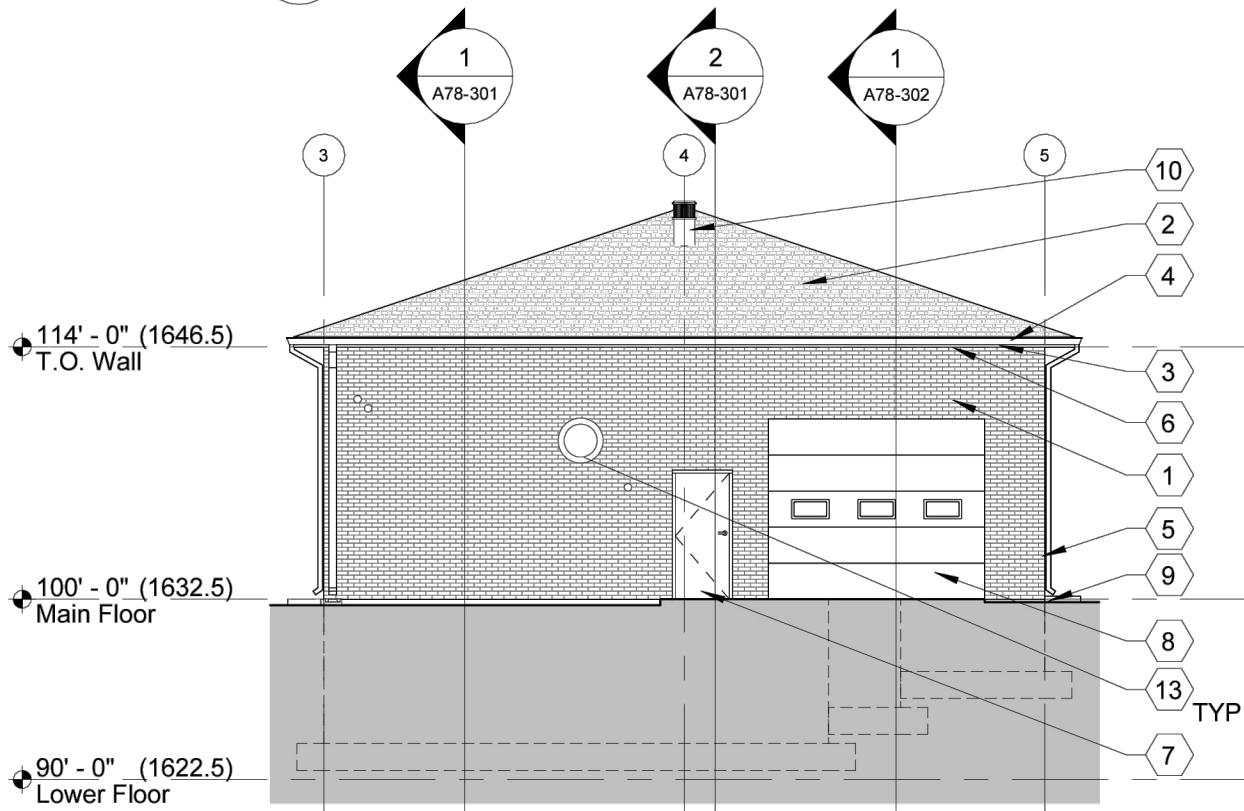
DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:

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1 North Exterior Elevation
Scale: 3/32" = 1'-0"



2 West Exterior Elevation
Scale: 3/32" = 1'-0"

SPECIFIC ELEVATION NOTES:

- 1 BRICK MASONRY VENEER; MANU - HEBRON BRICK; COLOR - MATCH EXISTING
- 2 ASPHALT SHINGLES; MANU - CERTAINTEED LANDMARK SHINGLES; COLOR - BLACK WALNUT
- 3 PREFINISHED METAL FASCIA; PAC-CLAD; COLOR - MEDIUM BRONZE
- 4 PREFINISHED METAL GUTTER; PAC-CLAD; COLOR - MEDIUM BRONZE
- 5 PREFINISHED METAL DOWNSPOUT; PAC-CLAD; COLOR - MEDIUM BRONZE
- 6 PREFINISHED METAL SOFFIT; PAC-CLAD FLUSH SOFFIT; COLOR - MEDIUM BRONZE
- 7 FIBERGLASS DOOR AND FRAME; TIGER DOOR LLC; COLOR - MEDIUM BRONZE
- 8 OVERHEAD SECTIONAL DOOR
- 9 SPLASHBLOCK; REFER TO DETAIL 1/A78-106
- 10 ATTIC VENT; BASIS-OF-DESIGN WHIRLYBIRD BIB-14; WEATHERED BRONZE
- 11 LOUVER; REFER TO MECHANICAL
- 12 PREFINISHED METAL BRAKE METAL FOUNDATION INSULATION FLASHING; MANU - PAC-CLAD; COLOR - MEDIUM BRONZE
- 13 MECHANICAL PENETRATION; REFER TO MECHANICAL



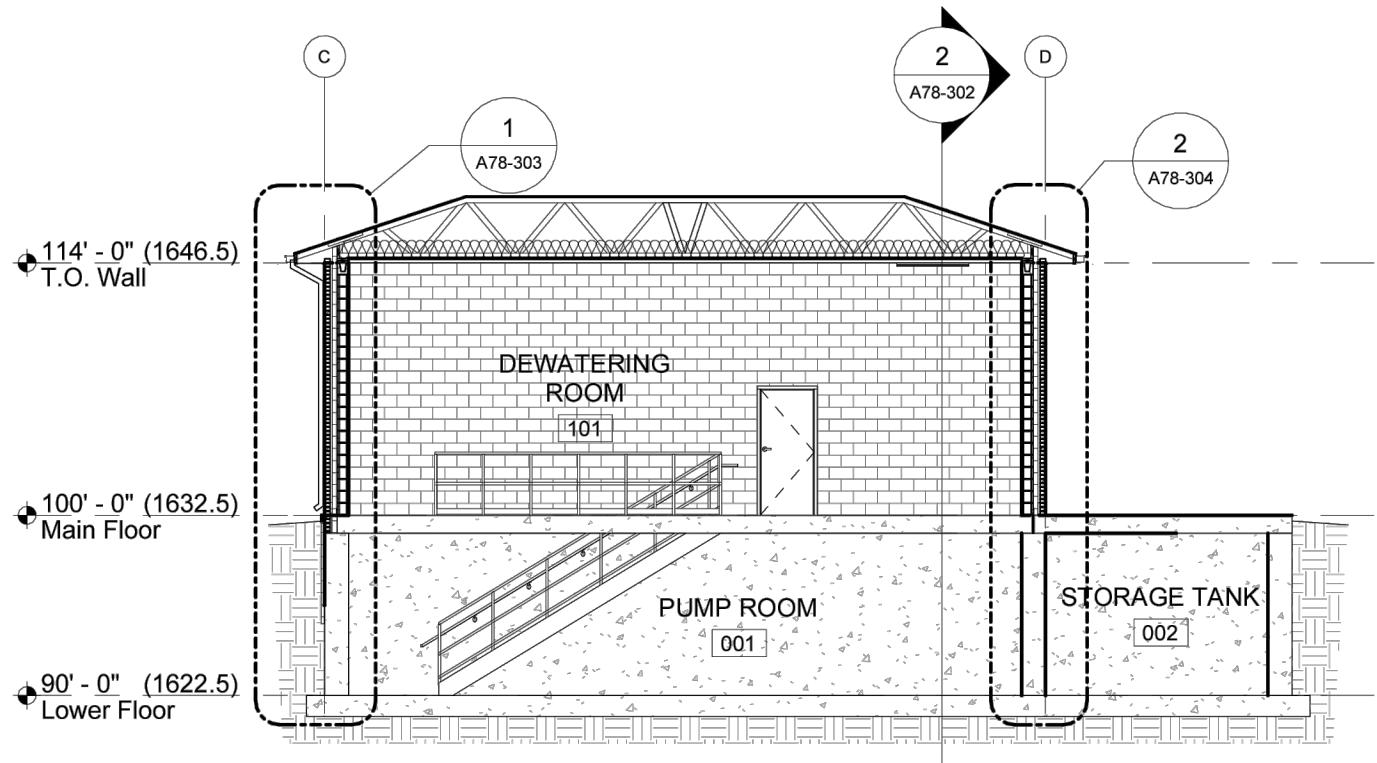
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - EXTERIOR ELEVATIONS

DATE: 01/08/2026
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RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



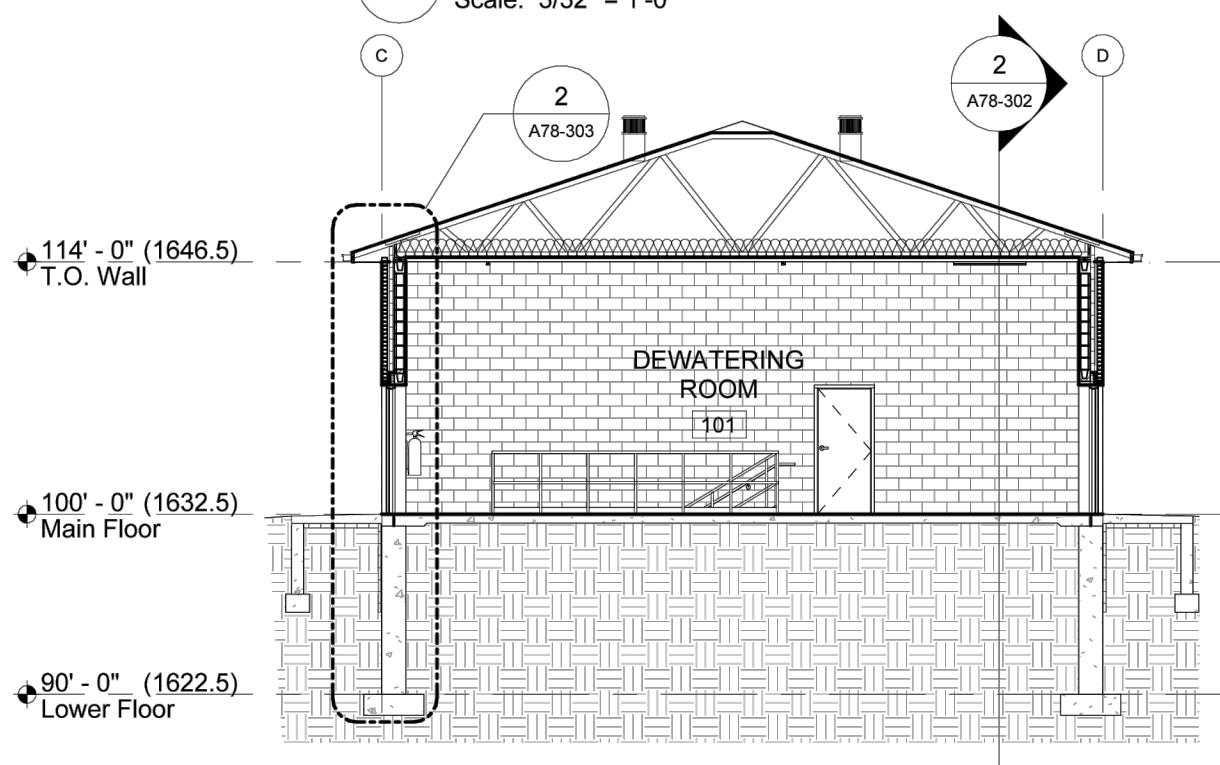
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - BUILDING SECTIONS

DATE:	01/08/2026
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PROJECT No.	J22530
MANAGER:	J. DEVINE
DESIGNER:	C. MEYER
DRAFTER:	C. MEYER
REVIEWER:	



Building Section

Scale: 3/32" = 1'-0"



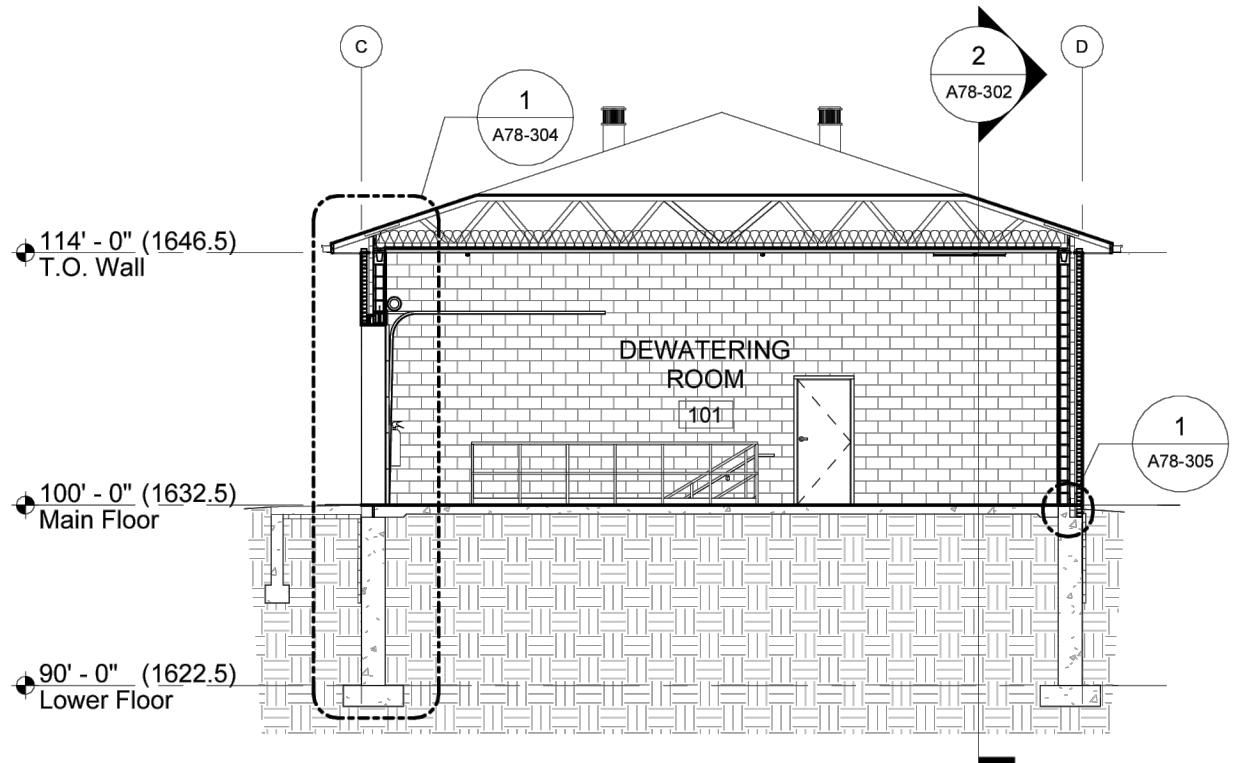
Building Section

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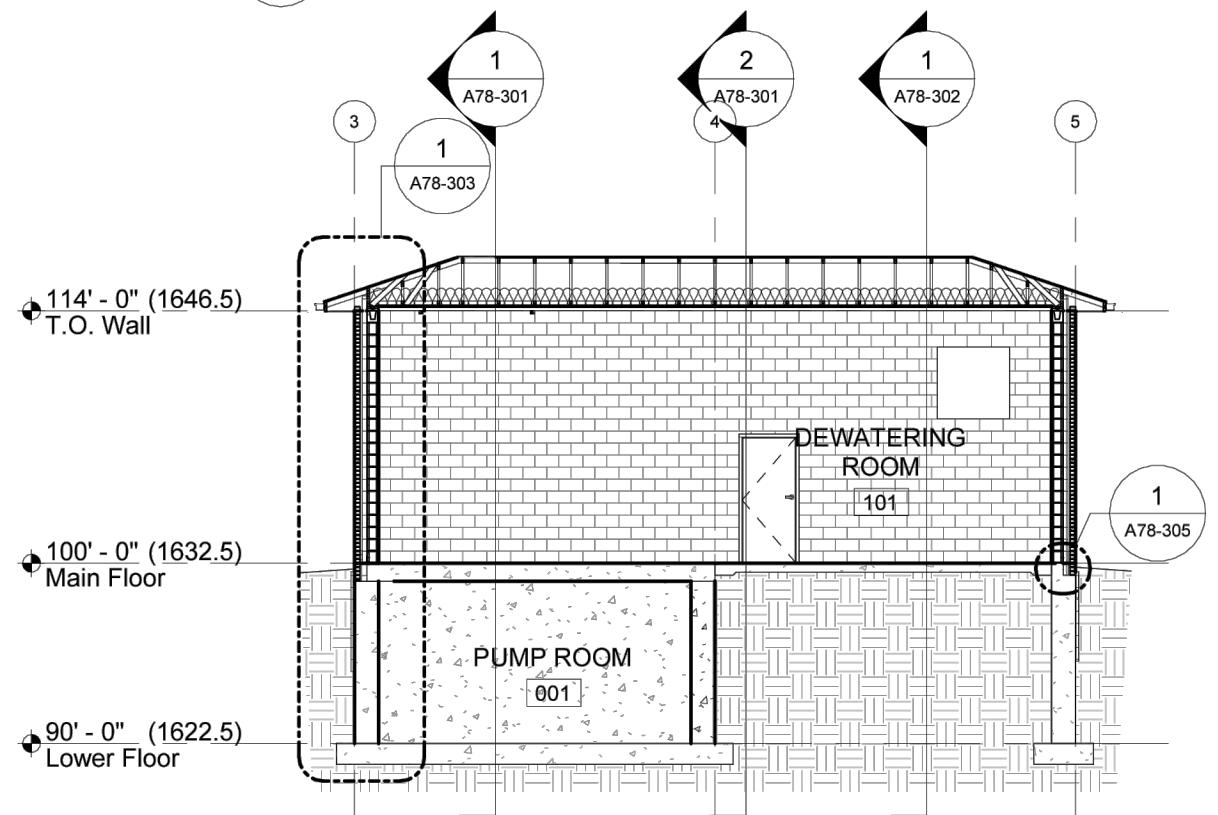
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - BUILDING SECTIONS

DATE:	01/08/2026
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PROJECT No.	J22530
MANAGER:	J. DEVINE
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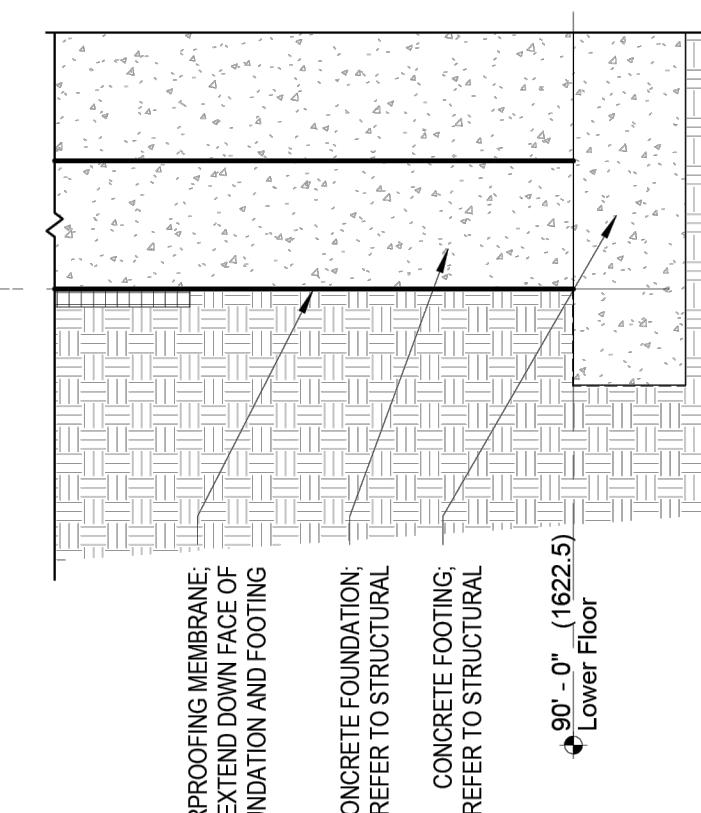
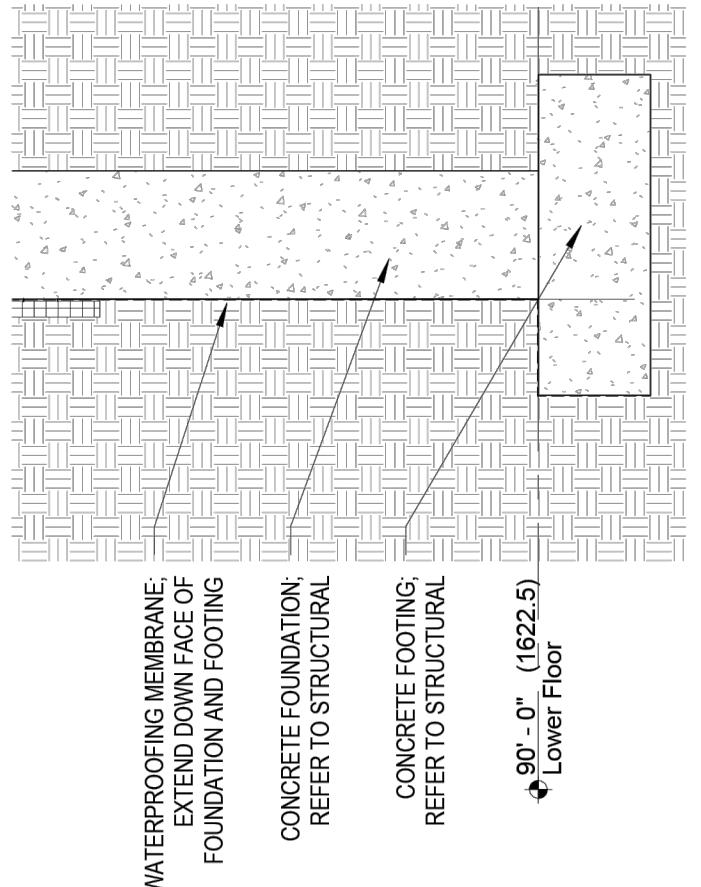
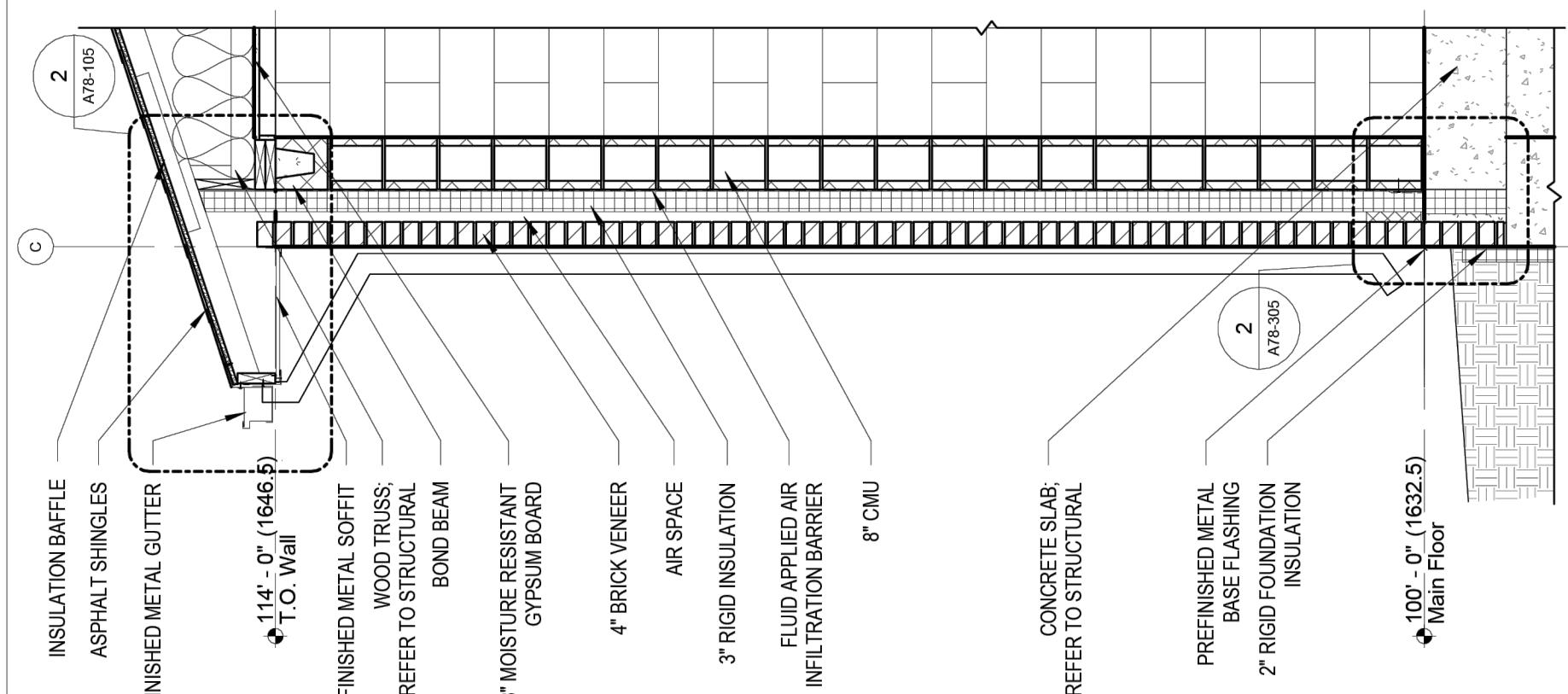
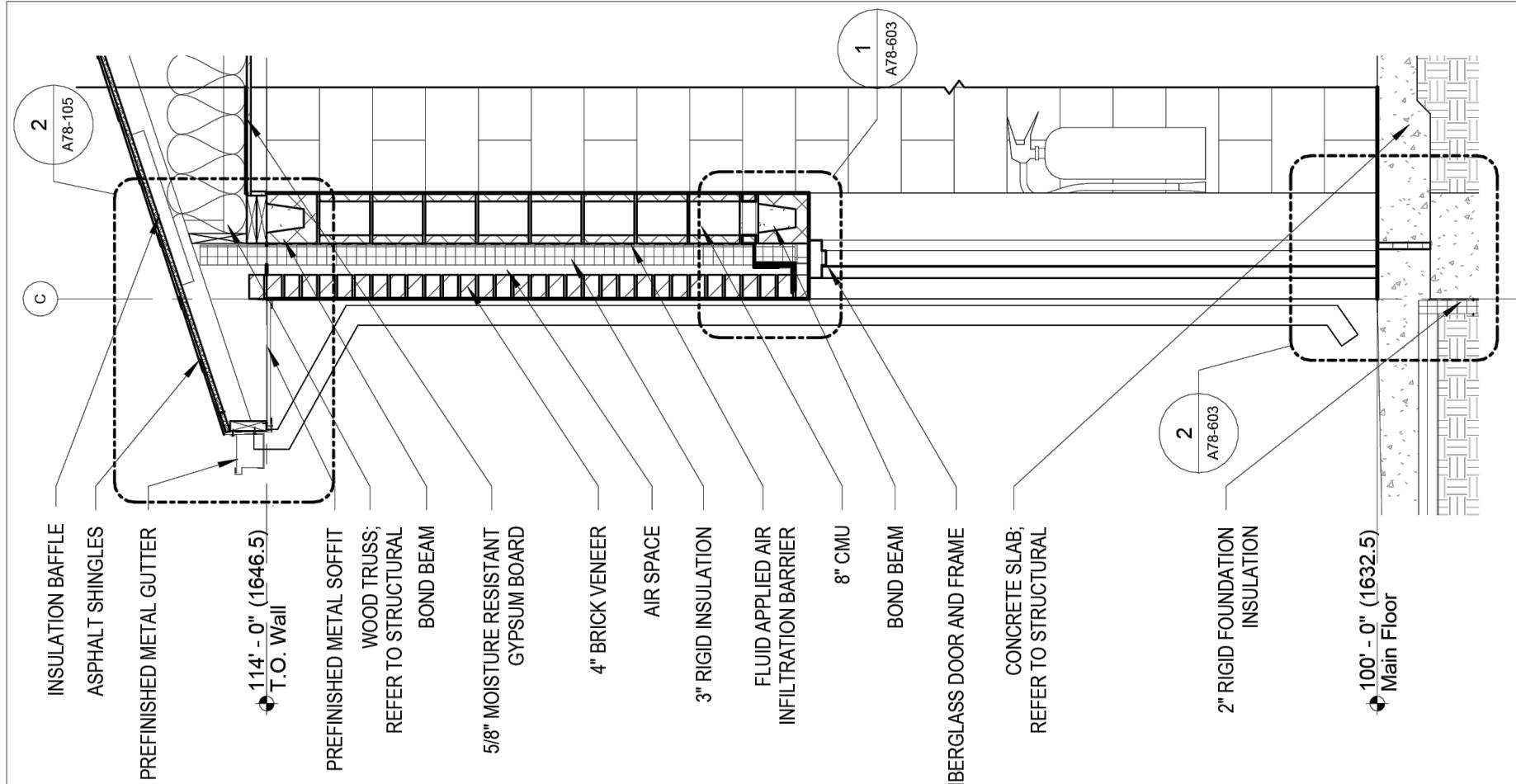
Building Section 1

Scale: 3/32" = 1'-0"



Building Section 2

Scale: 3/32" = 1'-0"



1 Wall Section

Scale: 1/2" = 1'-0"

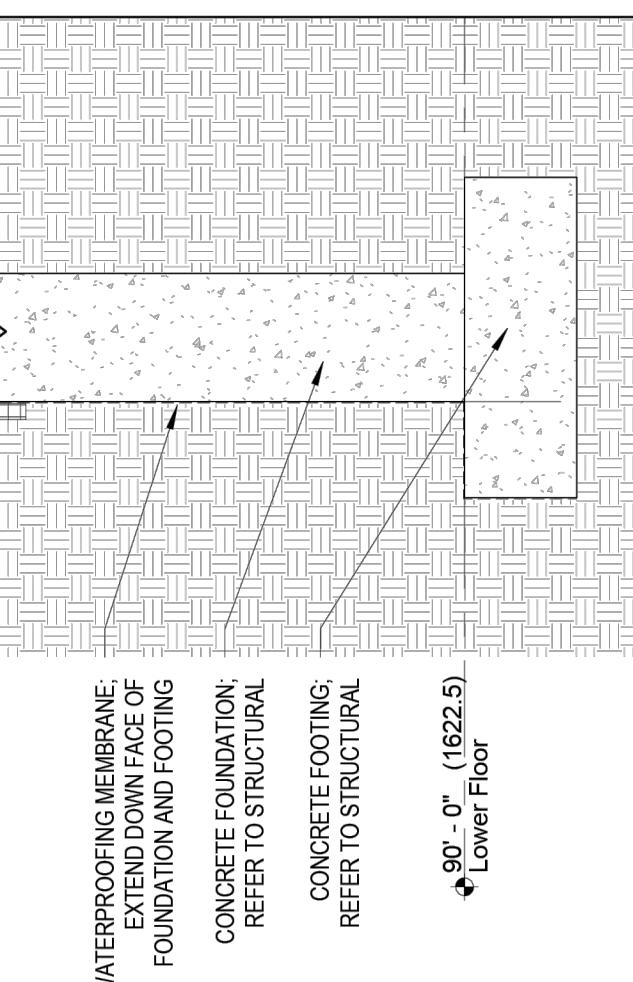
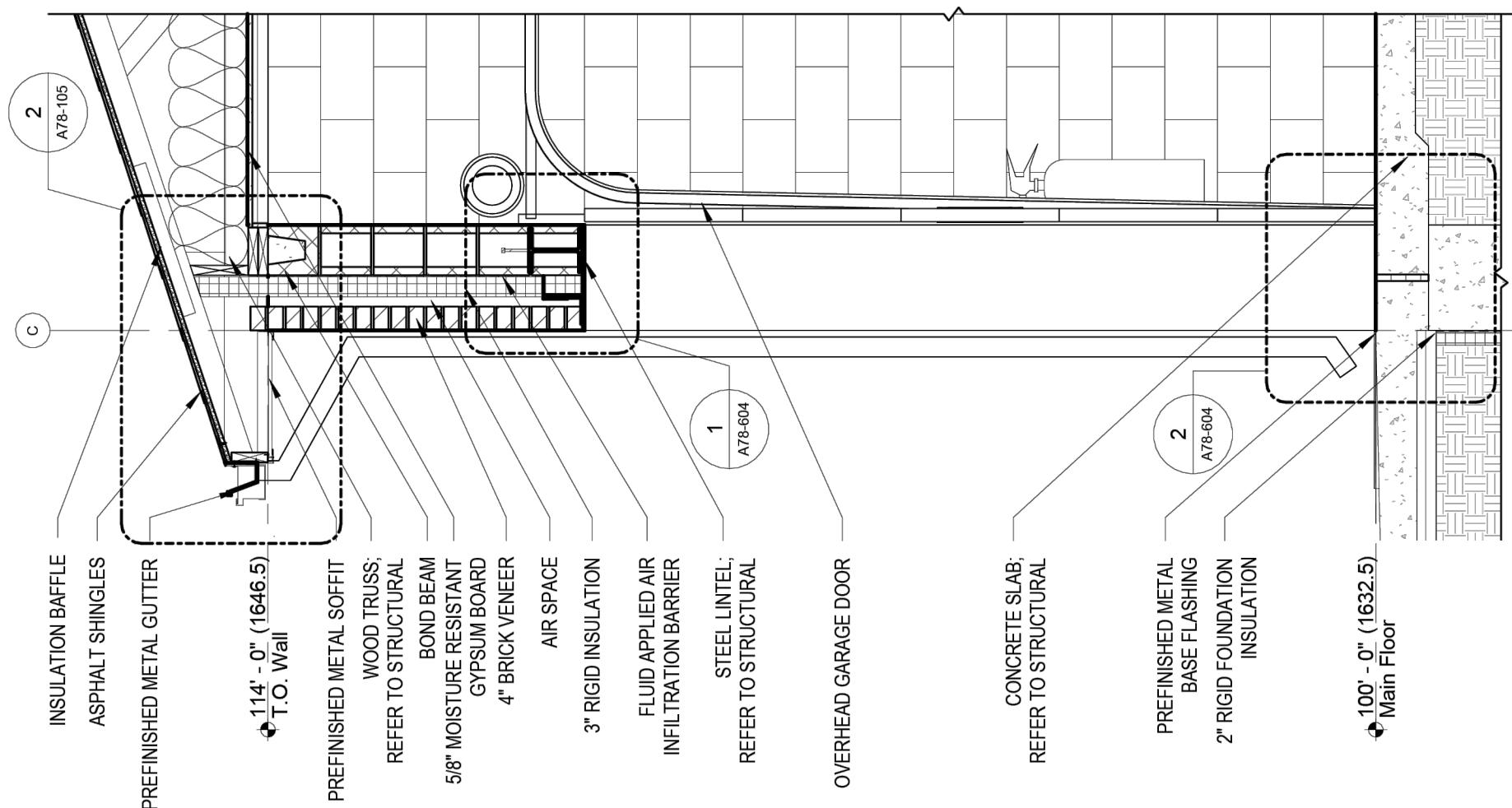
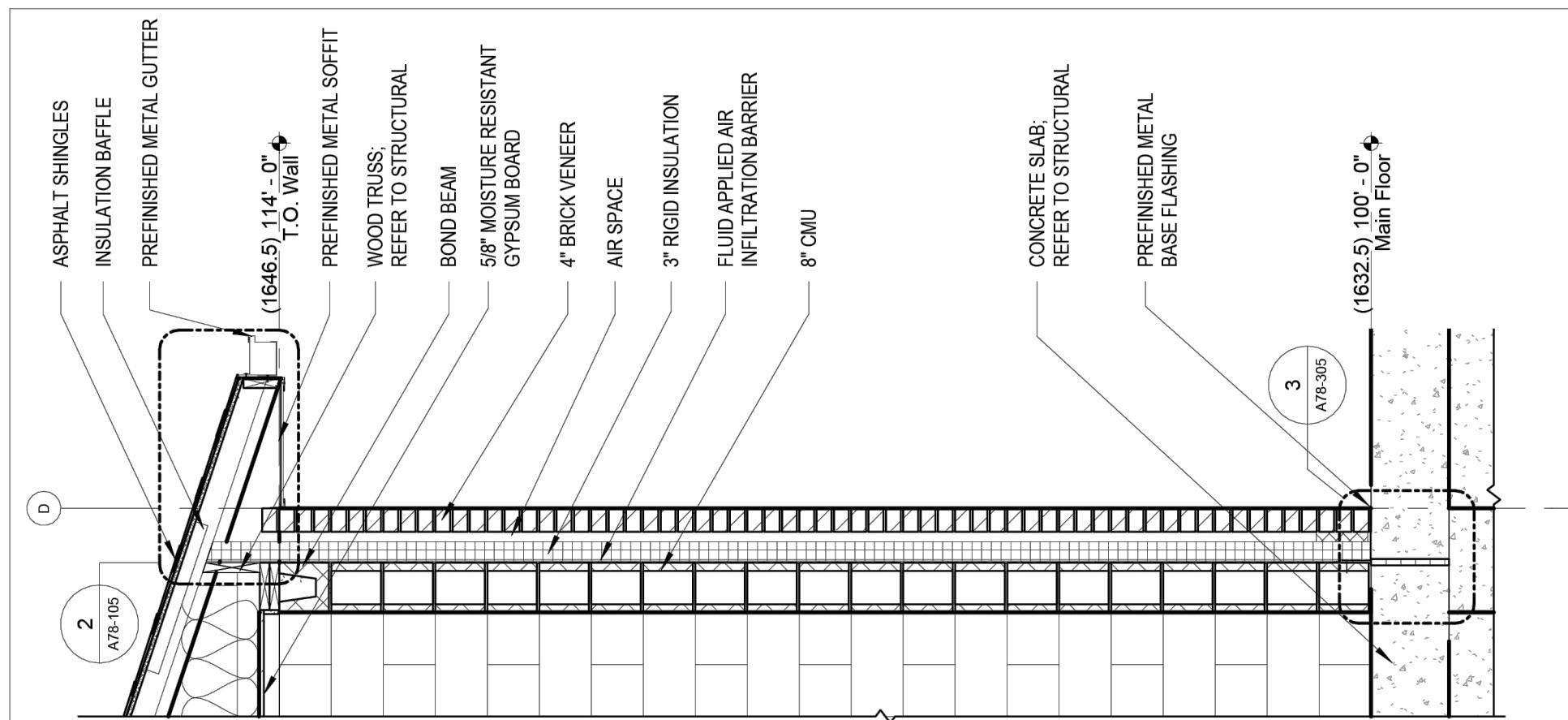


2 Wall Section

Scale: 1/2" = 1'-0"

DATE:	01/08/2026	ARCHITECTURAL
REV DATE:		WASTEWATER TREATMENT FACILITY UPGRADES
REV NUM:		MOBRIDGE, SOUTH DAKOTA
RECORD:		BIOSOLIDS DEWATERING BUILDING - WALL SECTIONS
PROJECT No.	J22530	
MANAGER:	J. DEVINE	
DESIGNER:	C. MEYER	
DRAFTER:	C. MEYER	
REVIEWER:		

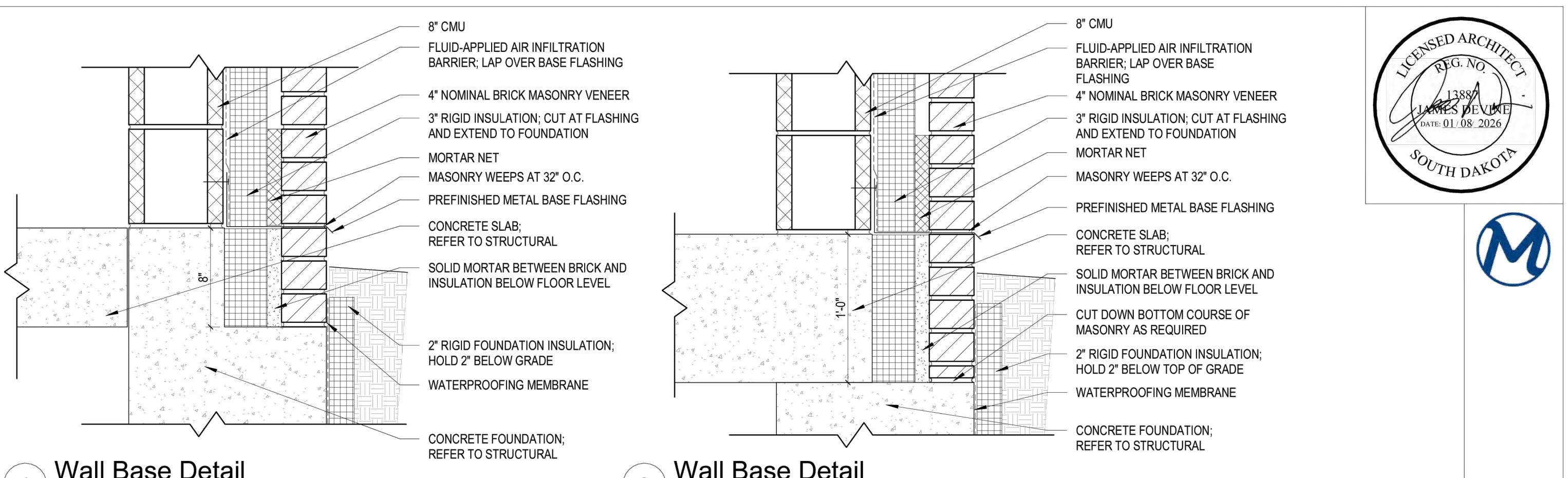




1 Wall Section
Scale: 1/2" = 1'-0"

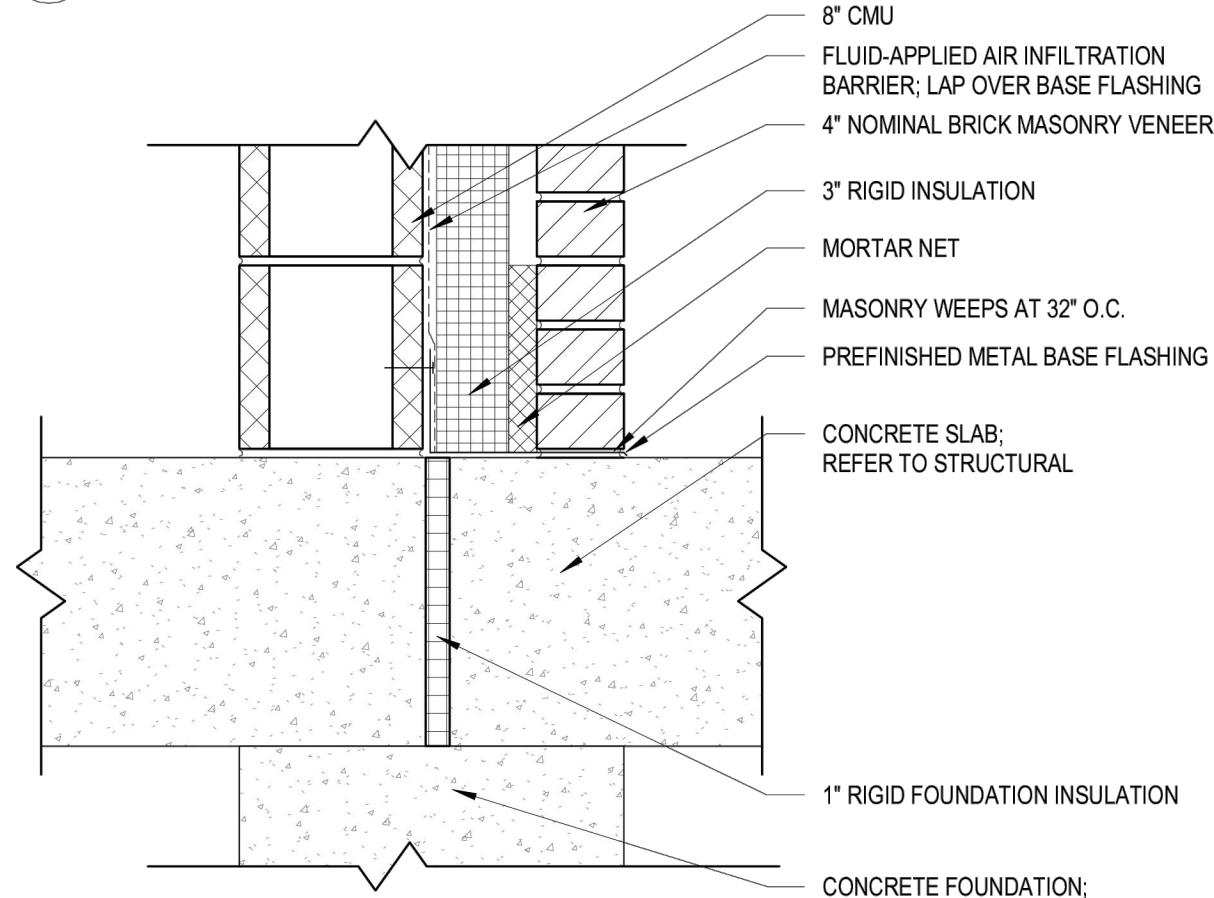
2 Wall Section
Scale: 1/2" = 1'-0"





1 Wall Base Detail

Scale: 1 1/2" = 1'-0"



3 Wall Base Detail

Scale: 1 1/2" = 1'-0"

2 Wall Base Detail

Scale: 1 1/2" = 1'-0"

ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - WALL DETAILS

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:

PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



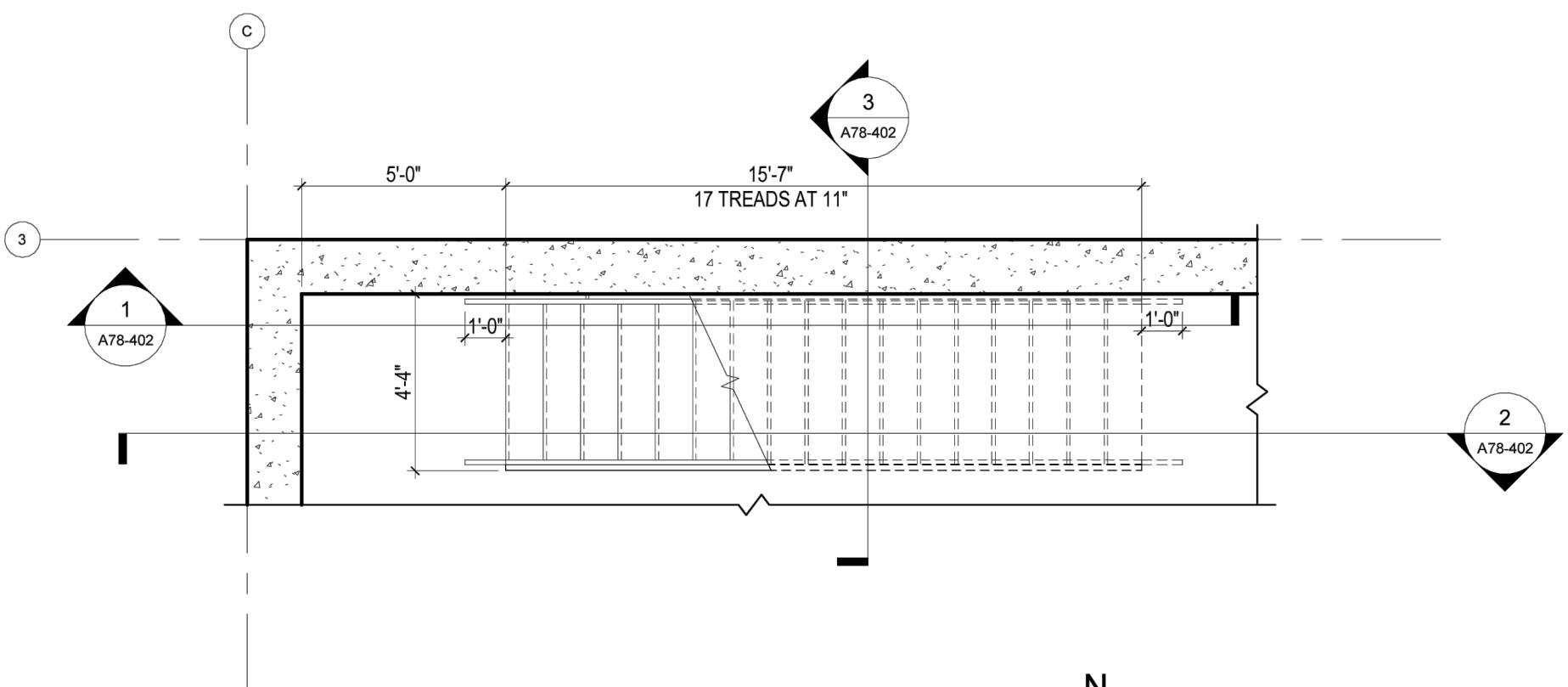


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WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - ENLARGED STAIR PLANS

DATE:	01/08/2026
REV DATE:	
REV NUM:	
RECORD:	
PROJECT No.	J22530
MANAGER:	J. DEVINE
DESIGNER:	C. MEYER
DRAFTER:	C. MEYER
REVIEWER:	

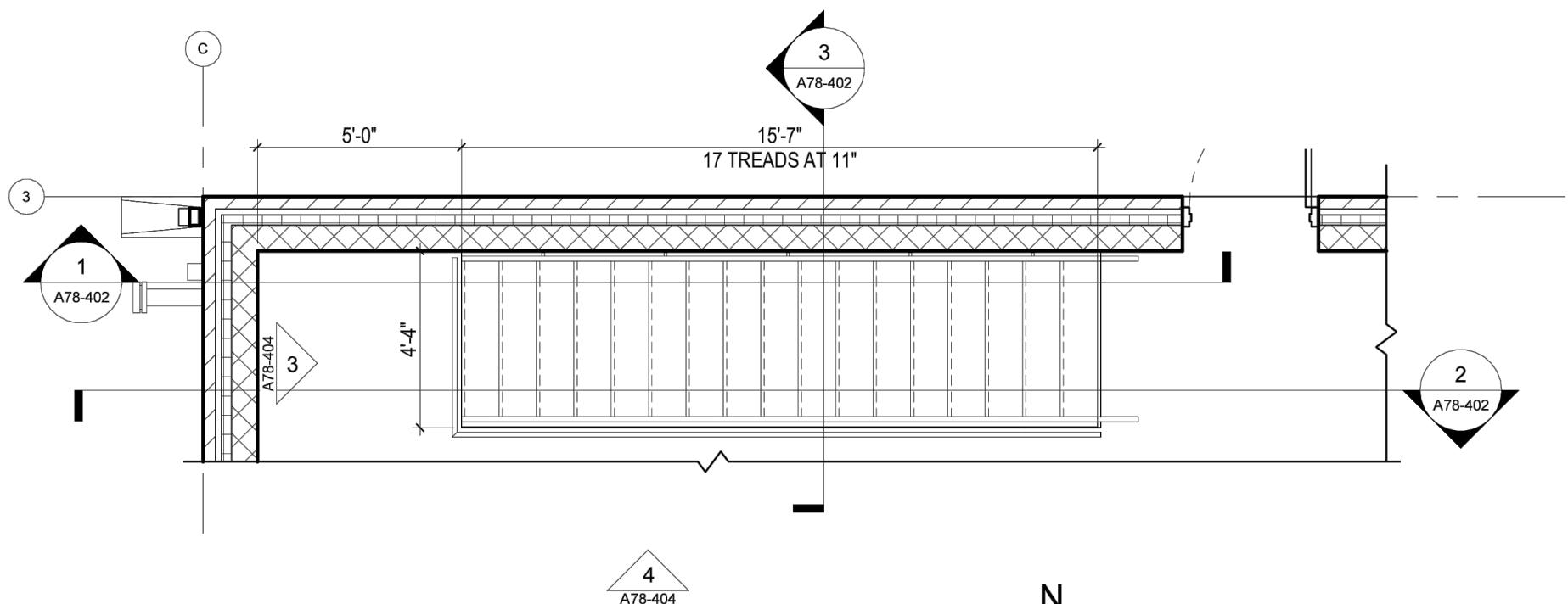
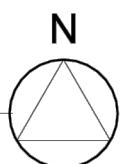
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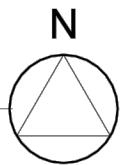
1 Enlarged Stair Plan - Lower Floor

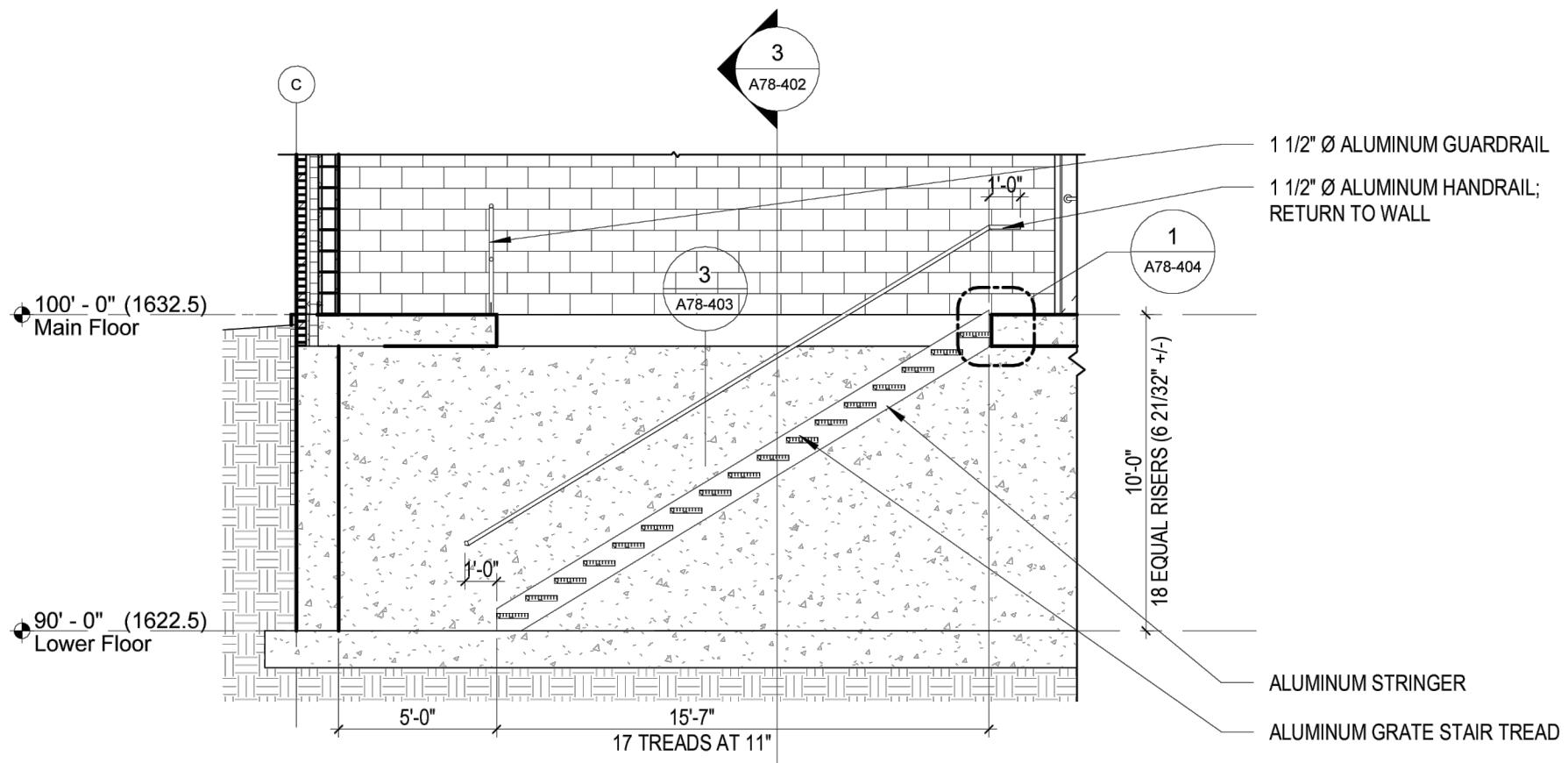
Scale: 1/4" = 1'-0"



2 Enlarged Stair Plan - Main Floor

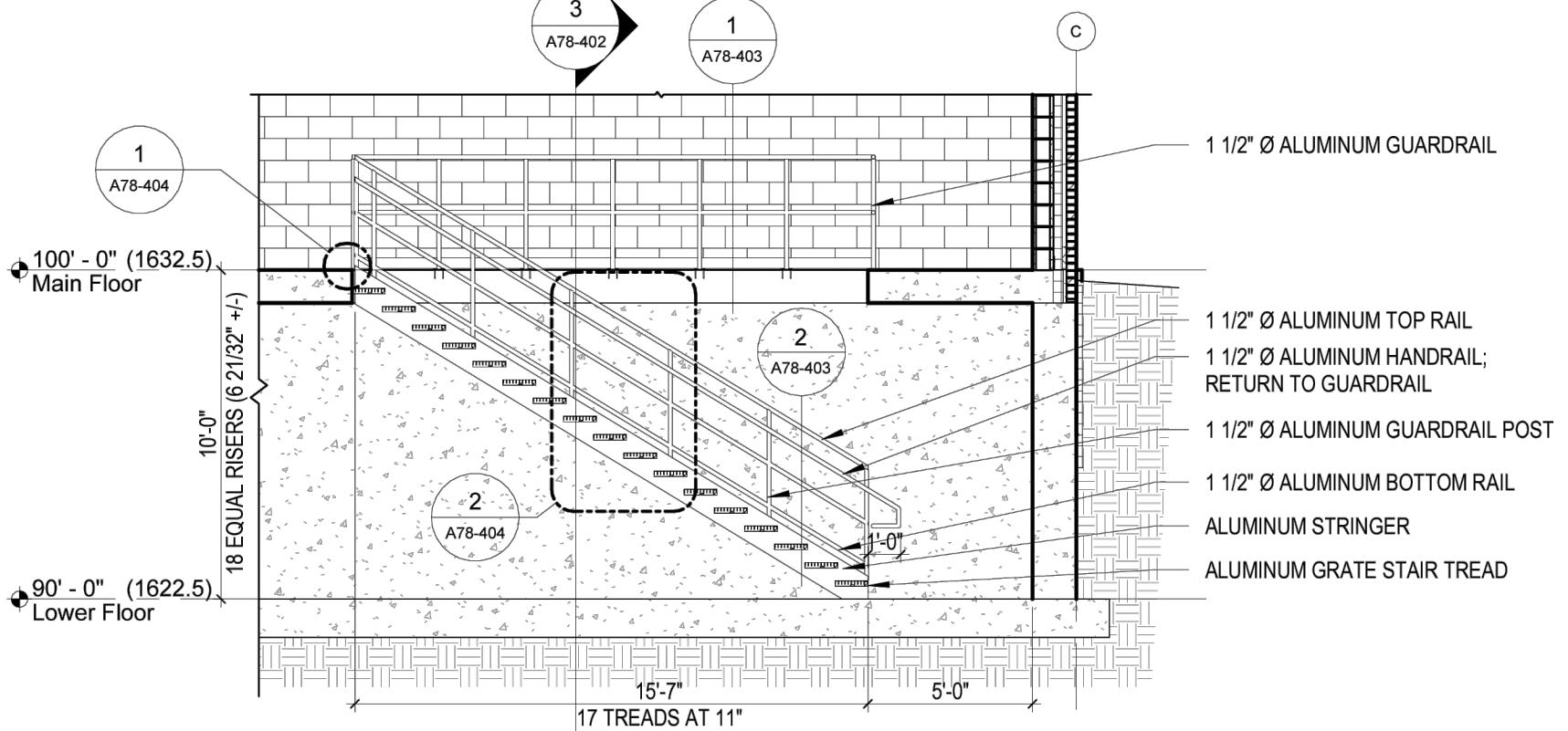
Scale: 1/4" = 1'-0"





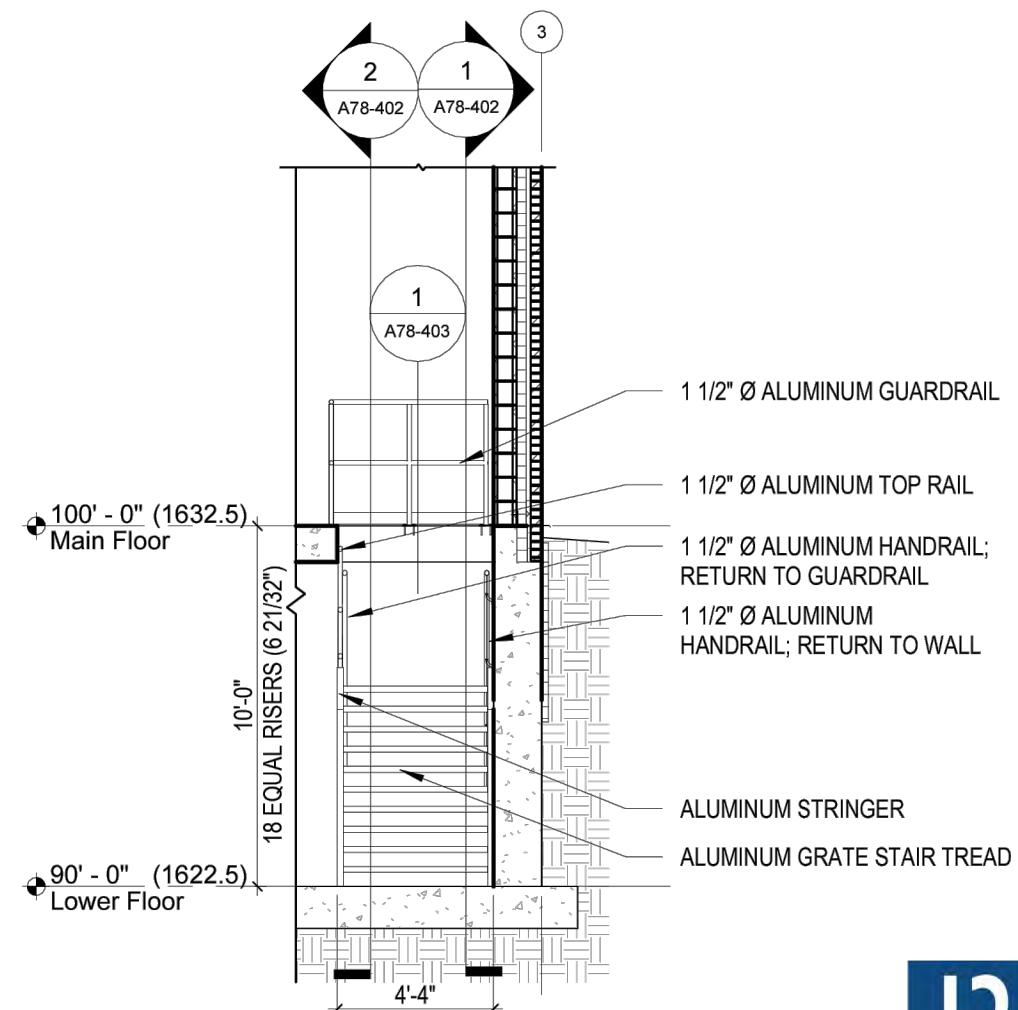
Stair Section

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



Stair Section

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



Stair Section

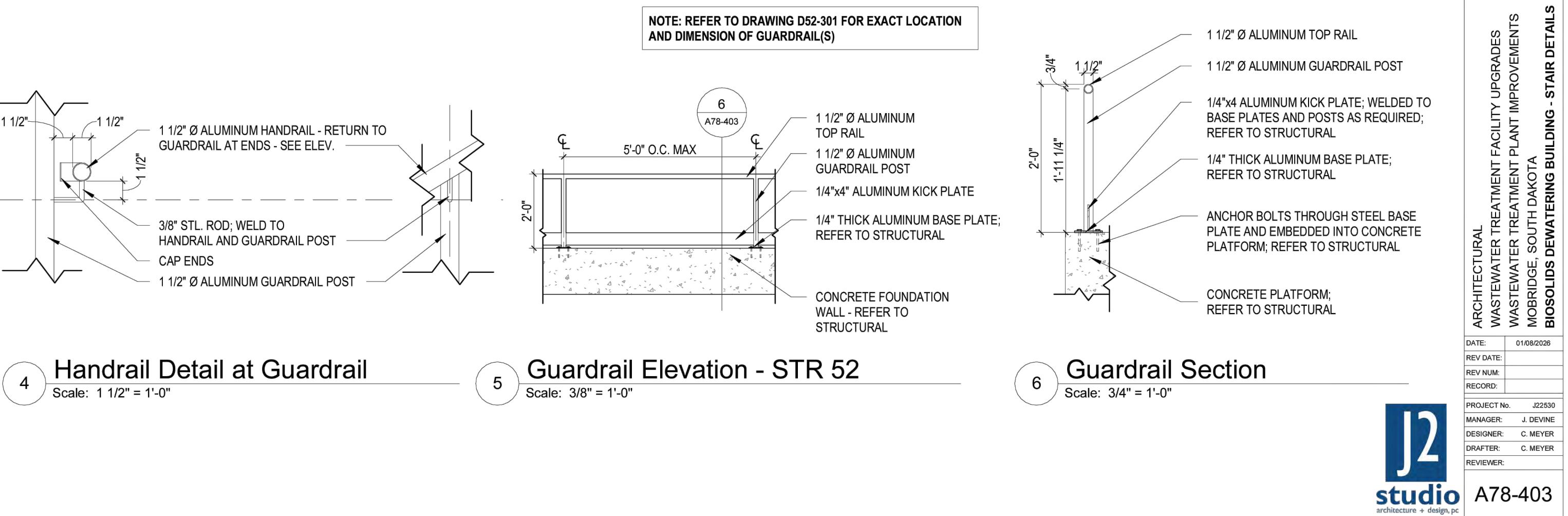
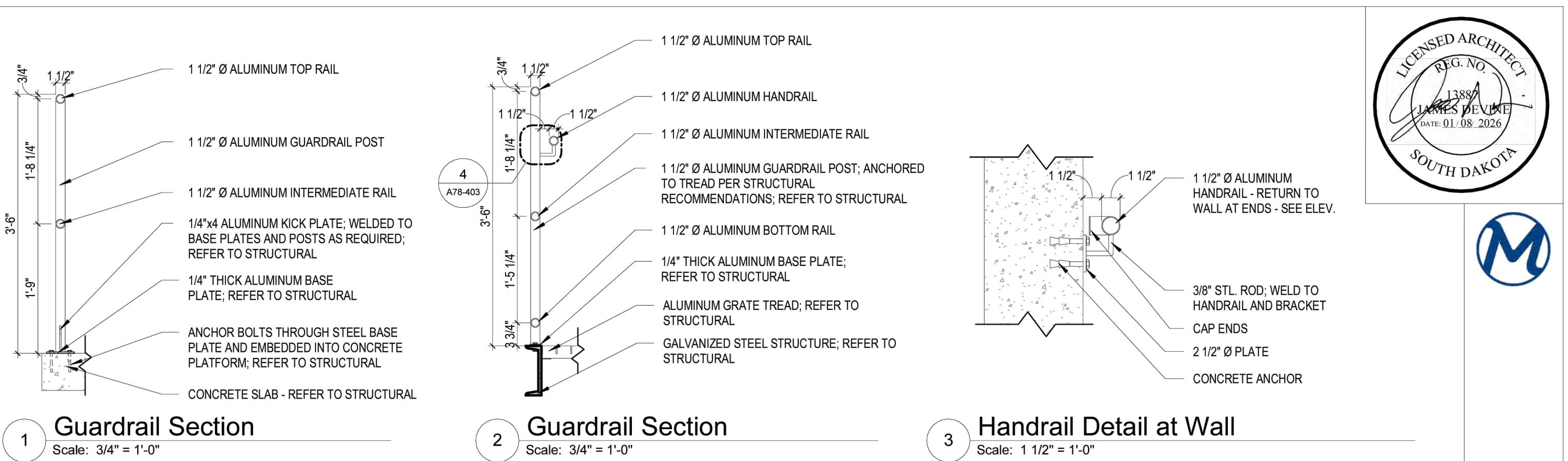
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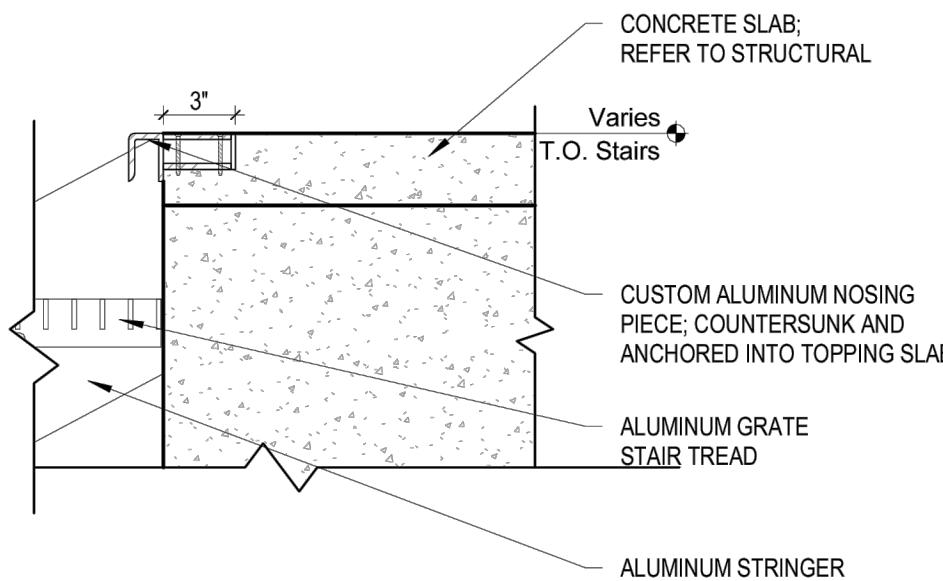
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - STAIR SECTIONS

ATE:	01/08/2026
EV DATE:	
EV NUM.:	
ECORD:	
PROJECT No. J22530	
ANAGER:	J. DEVINE
ESIGNER:	C. MEYER
RAFTER:	C. MEYER
EVIEWER:	

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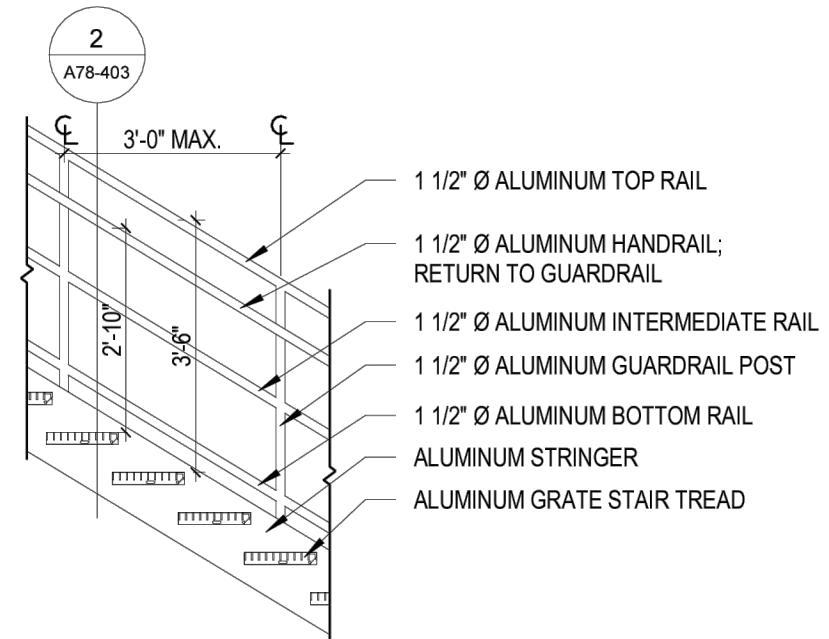
A78-402





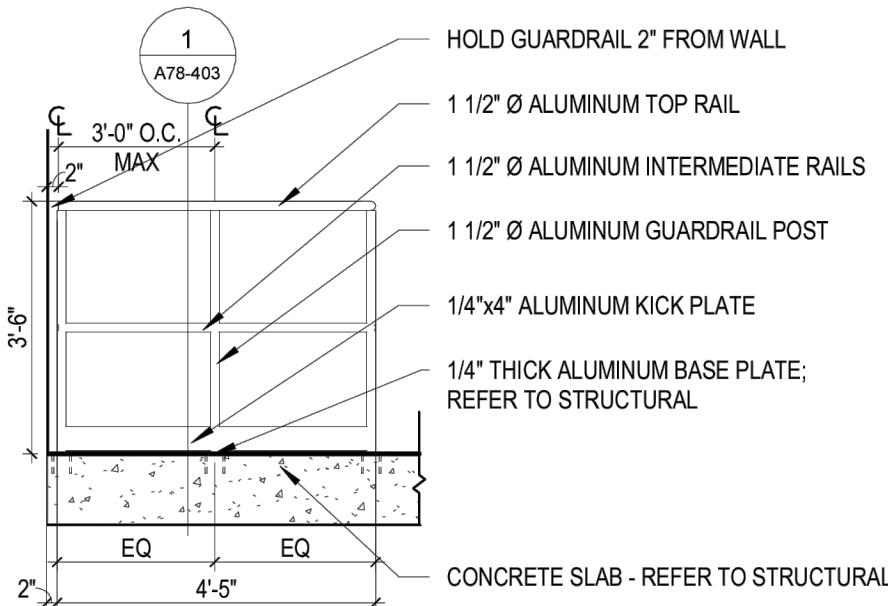
1 Nosing Detail

Scale: $1\frac{1}{2}'' = 1'-0''$



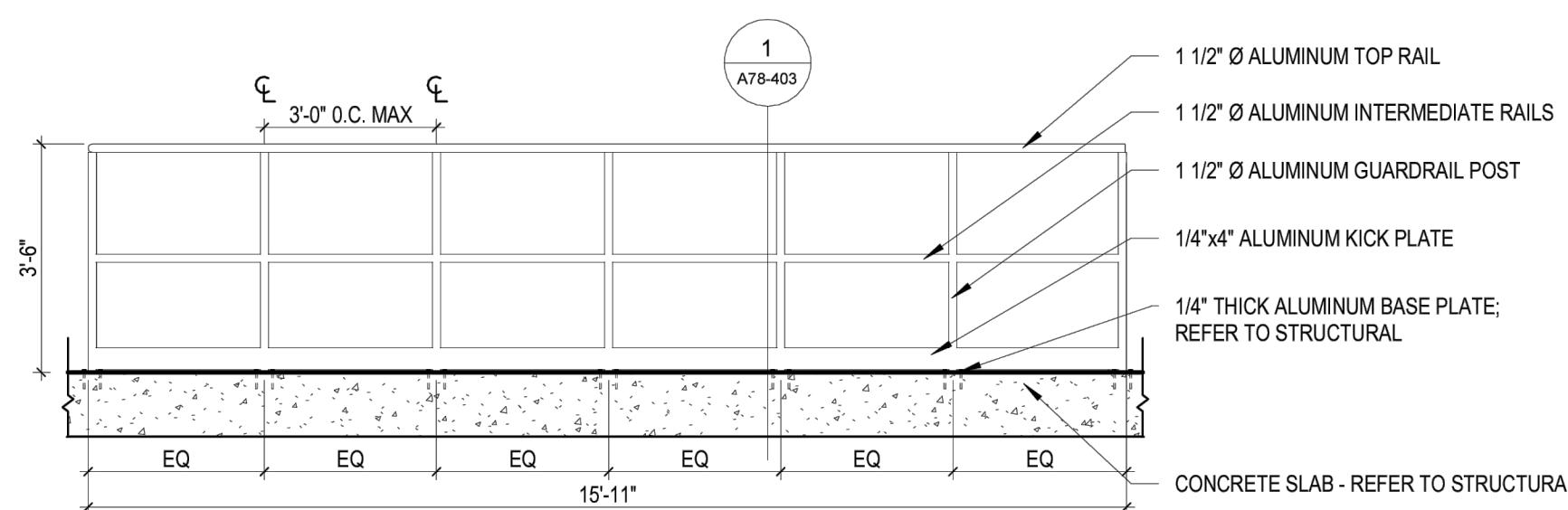
2 Guardrail Elevation

Scale: $3/8'' = 1'-0''$



3 Guardrail Elevation

Scale: $3/8'' = 1'-0''$



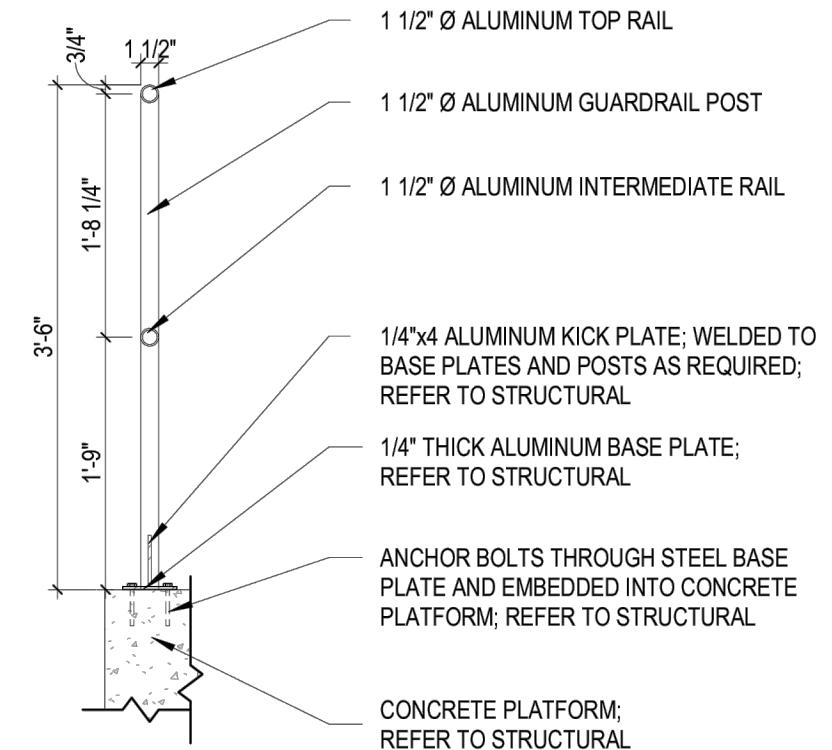
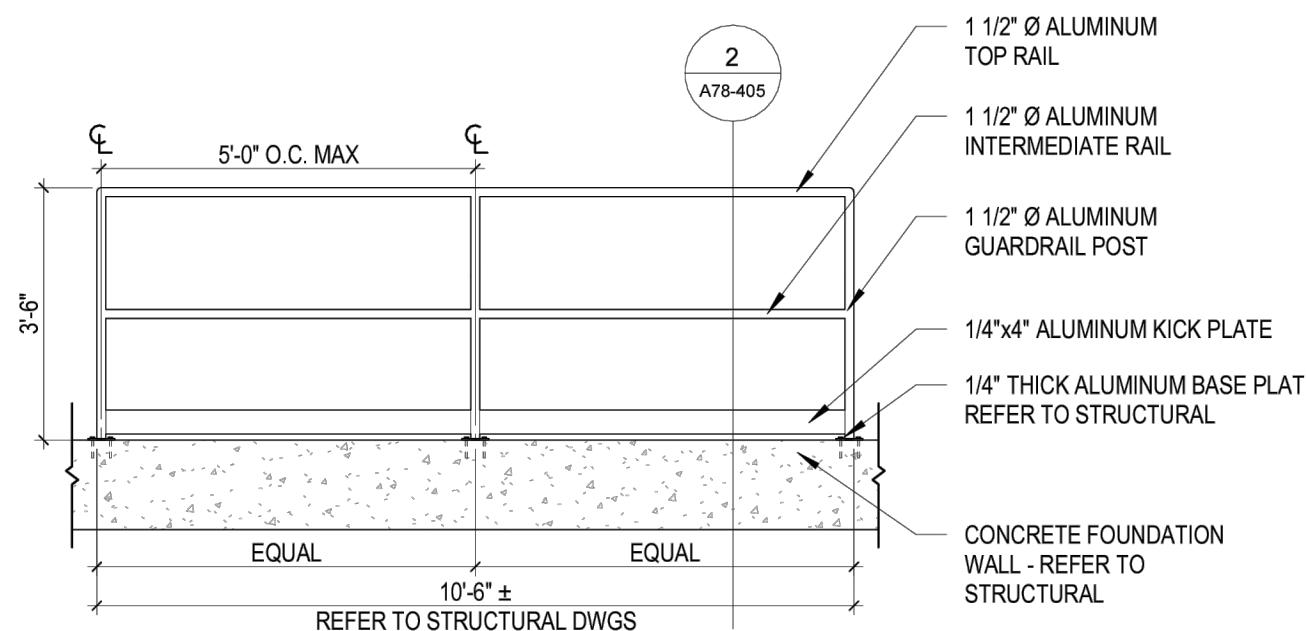
4 Guardrail Elevation

Scale: $3/8'' = 1'-0''$

ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - STAIR DETAILS

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:

PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
STRUCTURE 35 - GUARDRAIL ELEVATIONS

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:

PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:

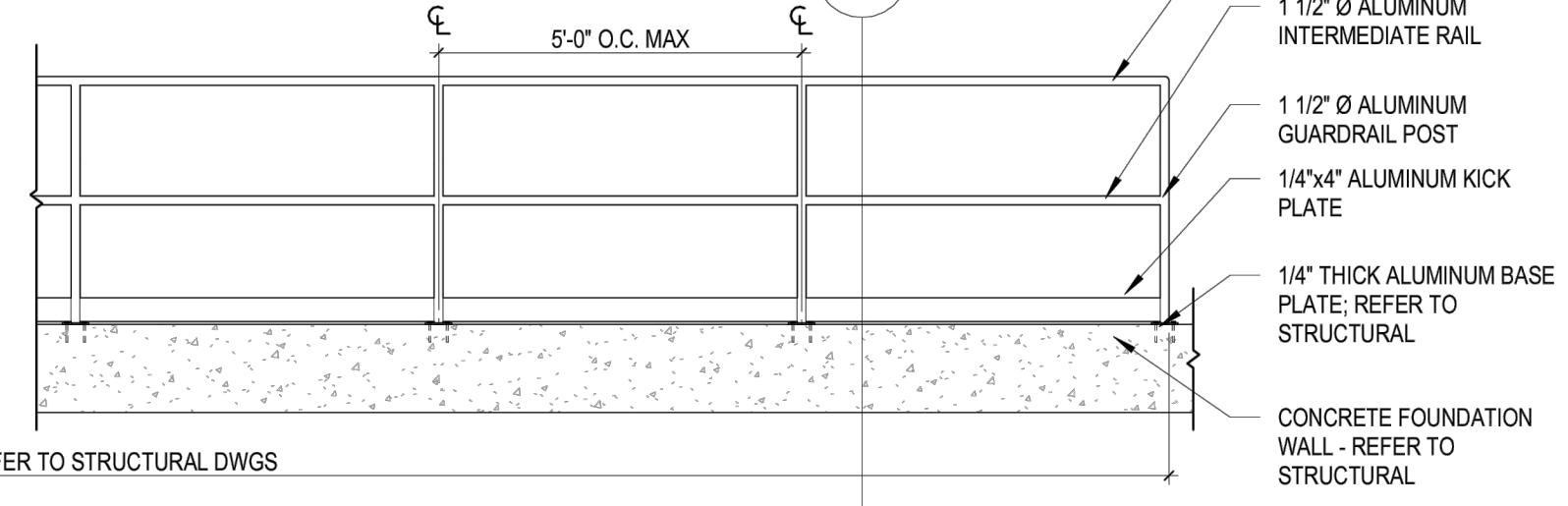
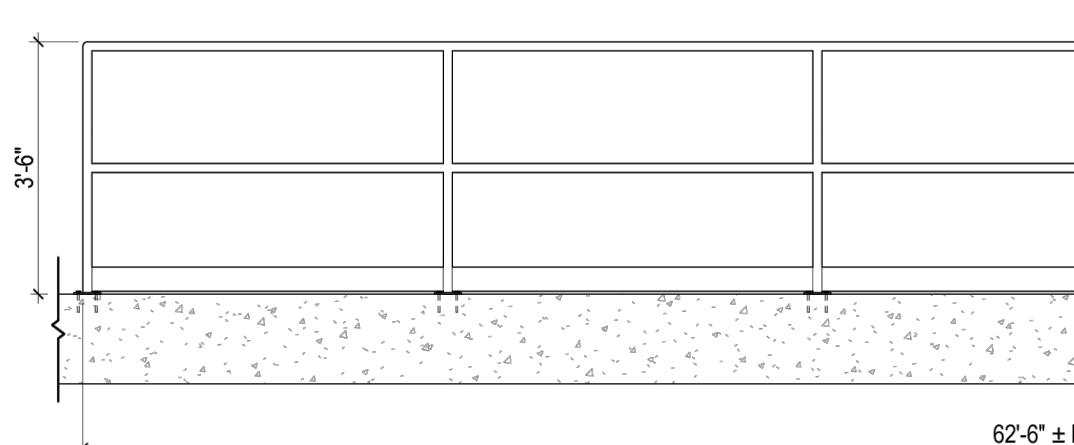
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1 Guardrail Elevation - Structure 35

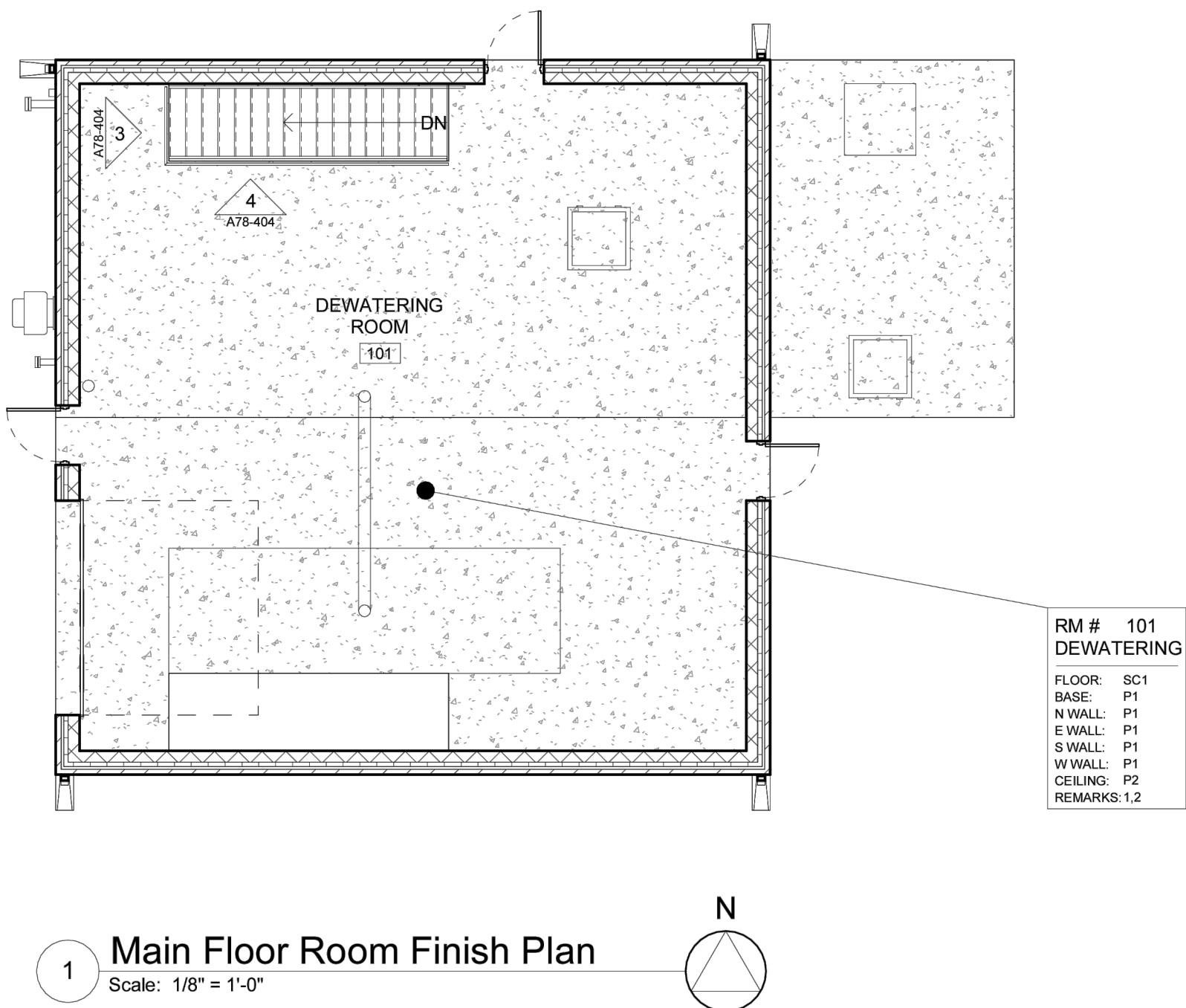
Scale: 3/8" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWING S35/102 FOR EXACT LOCATION AND DIMENSION OF GUARDRAIL(S)



3 Guardrail Elevation - Structure 35

Scale: 3/8" = 1'-0"



ROOM FINISH LEGEND:

ROOM NUMBER	RM # 101
ROOM NAME	DEWATERING
FLOOR FINISH	
BASE FINISH	
NORTH WALL FINISH	
EAST WALL FINISH	
SOUTH WALL FINISH	
WEST WALL FINISH	
CEILING FINISH	
REMARKS	

ROOM FINISHES:

MISC. FINISHES

SC1 - SEALED CONCRETE

BASE FINISHES

P1 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (WALL COLOR)

WALL/CEILING FINISHES

P1 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (WALL COLOR)

P2 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (CEILING COLOR)

P3 - PAINT - SHERWIN WILLIAMS; COLOR - BLACK FOX #SW7020; SEMI-GLOSS FINISH (EXTERIOR EXPOSED STEEL COLOR TO MATCH FIBERGLASS DOOR; COLOR TO BE CONFIRMED DURING SHOP DRAWING PHASE)

FINISH NOTES:

1. PAINT STEEL PLATE AT OVERHEAD DOOR 'P3'.

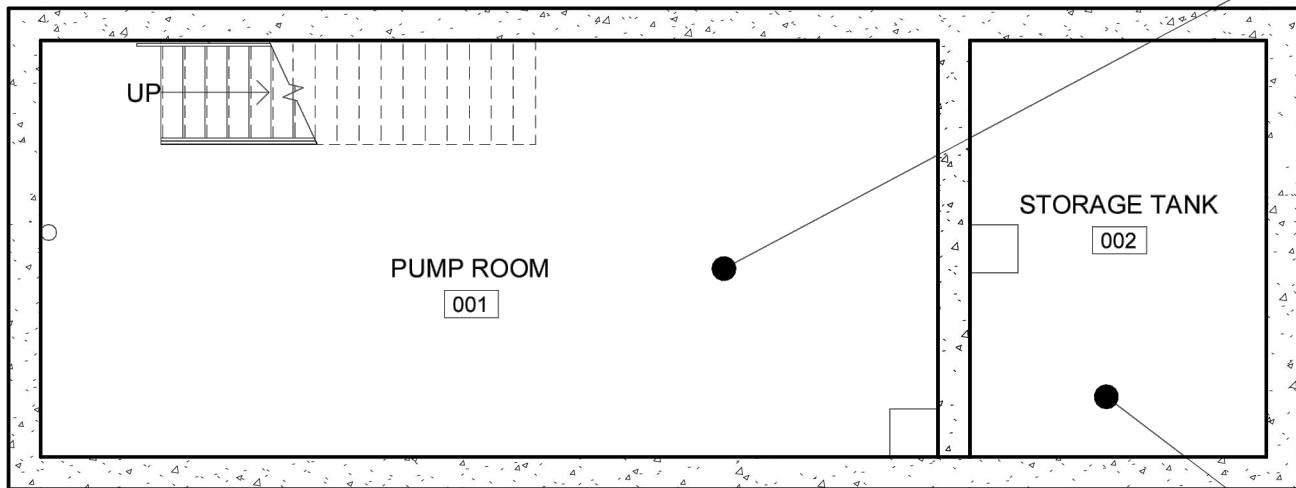
GENERAL NOTES:

- CAULK DOOR FRAME AT INTERSECTION WITH CONCRETE FLOOR.
- CAULK PERIMETER OF DOOR FRAME, LOUVER AND DUCT PENETRATION TO BOTH CMU AND BRICK VENEER.



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WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - MAIN FLOOR FINISH PLAN

DATE: 01/08/2026
REV DATE:
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RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



RM #	001
PUMP ROOM	
FLOOR:	SC1
BASE:	SC1
N WALL:	SC1
E WALL:	SC1
S WALL:	SC1
W WALL:	SC1
CEILING:	SC1
REMARKS:	

ROOM FINISH LEGEND:

ROOM NUMBER	RM # 101
ROOM NAME	ROOM
FLOOR FINISH	
BASE FINISH	
NORTH WALL FINISH	
EAST WALL FINISH	
SOUTH WALL FINISH	
WEST WALL FINISH	
CEILING FINISH	
REMARKS	

ROOM FINISHES:

MISC. FINISHES

SC1 - SEALED CONCRETE

BASE FINISHES

P1 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (WALL COLOR)

WALL/CEILING FINISHES

P1 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (WALL COLOR)

P2 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (CEILING COLOR)

P3 - PAINT - SHERWIN WILLIAMS; COLOR - BLACK FOX #SW7020; SEMI-GLOSS FINISH (EXTERIOR EXPOSED STEEL COLOR TO MATCH FIBERGLASS DOOR; COLOR TO BE CONFIRMED DURING SHOP DRAWING PHASE)

FINISH NOTES:

1. PAINT STEEL PLATE AT OVERHEAD DOOR 'P3'.

GENERAL NOTES:

- CAULK DOOR FRAME AT INTERSECTION WITH CONCRETE FLOOR.
- CAULK PERIMETER OF DOOR FRAME, LOUVER AND DUCT PENETRATION TO BOTH CMU AND BRICK VENEER.



ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - LOWER FLOOR FINISH PLAN

DATE:	01/08/2026
REV DATE:	
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RECORD:	
PROJECT No.	J22530
MANAGER:	J. DEVINE
DESIGNER:	C. MEYER
DRAFTER:	C. MEYER
REVIEWER:	

DOOR AND FRAME SCHEDULE

DOOR							FRAME					HARDWARE			
DOOR #	DOOR	ROOM	SIZE			MAT'L	EL	GLAZ'G	DETAIL			SET NO	NOTES		
			NAME	WD	HGT				MAT'L	EL	HEAD	JAMB	SILL		
#52		STRUCTURE	3' - 0"	7' - 0"	0' - 1 3/4"	FG	A	--	FRP	1	1/A78-602	2/A78-602	2/A78-603	1	1,2,3
78-101	A	DEWATERING	3' - 0"	7' - 0"	0' - 1 3/4"	FG	A	--	FRP	1	1/A78-603	3/A78-603	2/A78-603	1	1,2
78-101	B	DEWATERING	3' - 0"	7' - 0"	0' - 1 3/4"	FG	A	--	FRP	1	1/A78-603	3/A78-603	2/A78-603	1	1,2
78-101	C	DEWATERING	3' - 0"	7' - 0"	0' - 1 3/4"	FG	A	--	FRP	1	1/A78-603	3/A78-603	2/A78-603	1	1,2
78-101	D	DEWATERING	12' - 0"	10' - 0"	0' - 2"	STL	B	GL1	--	--	1/A78-604	3/A78-604	2/A78-604	--	--

HARDWARE:

GROUP 1 (EXTERIOR SINGLE DOOR - EGRESS)

HINGES: HAGER BB1199 4-1/2" X 4-1/2" - 1 1/2 PAIR (NRP); US26D FINISH
 EXIT DEVICE: VON DUPRIN 99-L-06 3'; US26 FINISH
 CLOSER/STOP: LCN P4040XP-3077CNS; PARALLEL ARM
 WEATHERSTRIPPING: REESE DS69C
 SWEEP: REESE 967C
 THRESHOLD: REESE S424A
 RAINDRIP: REESE R201C

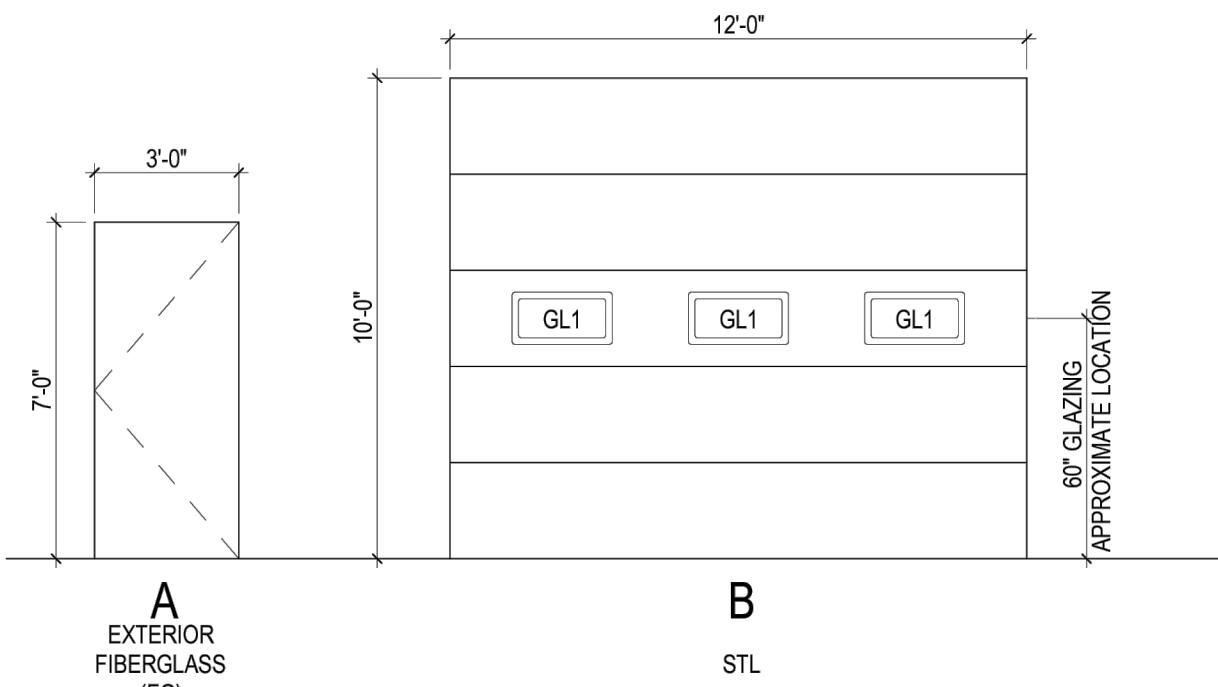
GLASS TYPES:
 GL1 - LOW-E-COATED, TINTED INSULATING GLASS (EXTERIOR WINDOWS)

GROUP 2 (INTERIOR SINGLE DOOR - NON-LOCKABLE)

HINGES: HAGER BB1199 4-1/2" X 4-1/2" - 1 1/2 PAIR; US26D FINISH
 LOCKS: SCHLAGE ND10S LATCHSET; RHODES LEVER; FINISH 626
 CLOSER/STOP: LCN P4040XP-3077CNS; PARALLEL ARM

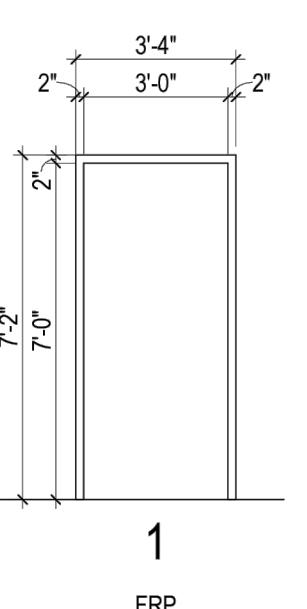
HARDWARE/DOOR SCHEDULE NOTES:

1. REFER TO SHEET A78-201 FOR DOOR AND FRAME FINISHES.
2. CORE KEYWAY TO MATCH EXISTING KEYING SYSTEM. CORE ASSUMED TO BE SCHLAGE C-STYLE, 6 PIN CONVENTIONAL. CONFIRM WITH OWNER PRIOR TO ORDERING.
3. DOOR LOCATED AT STRUCTURE #52; REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR LOCATION AND MORE INFORMATION.



Door Elevations

Scale: 1/4" = 1'-0"



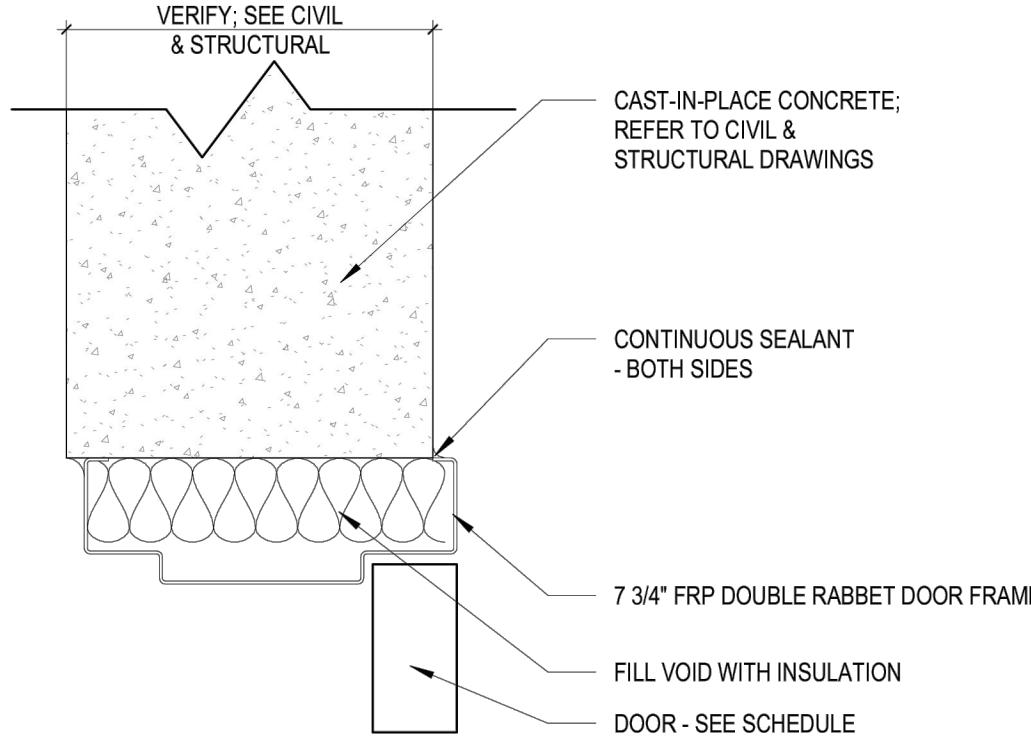
Frame Elevation

Scale: 1/4" = 1'-0"



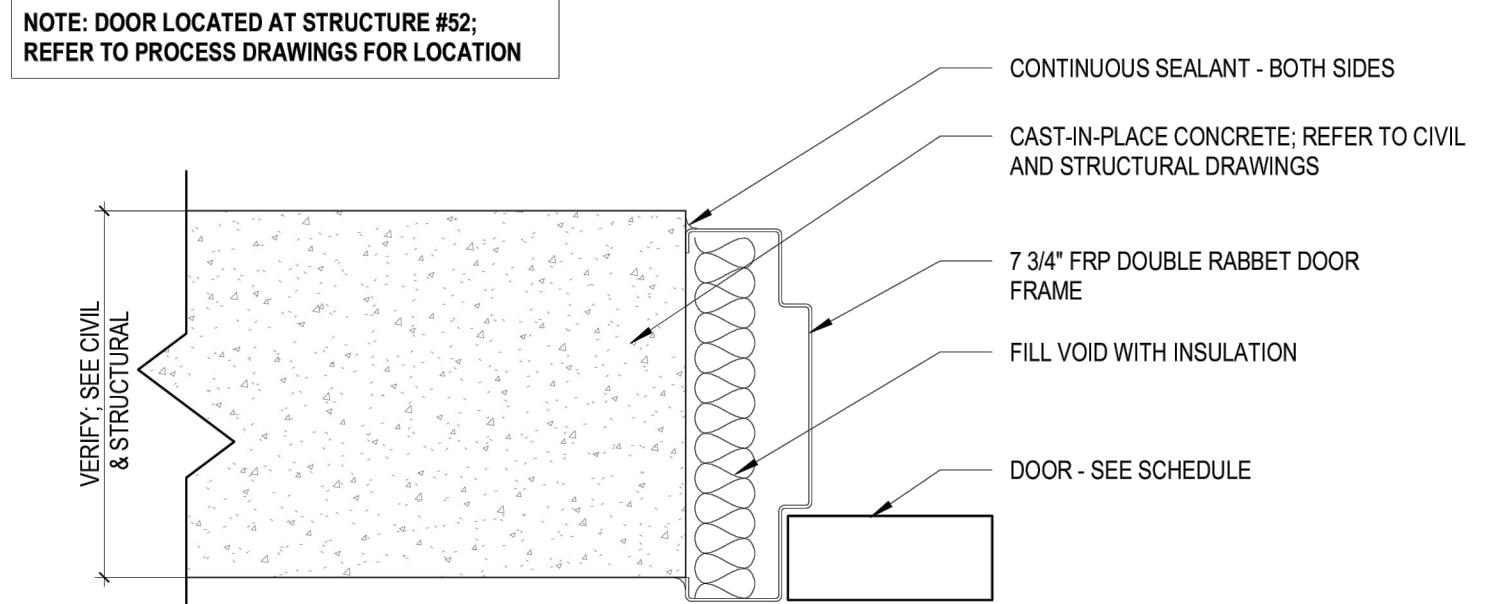
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES

DATE: 01/08/2026
 REV DATE:
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 PROJECT No. J22530
 MANAGER: J. DEVINE
 DESIGNER: C. MEYER
 DRAFTER: C. MEYER
 REVIEWER:



1 Fiberglass Door Frame - Head

Scale: 3" = 1'-0"



2 Fiberglass Door Frame - Jamb

Scale: 3" = 1'-0"

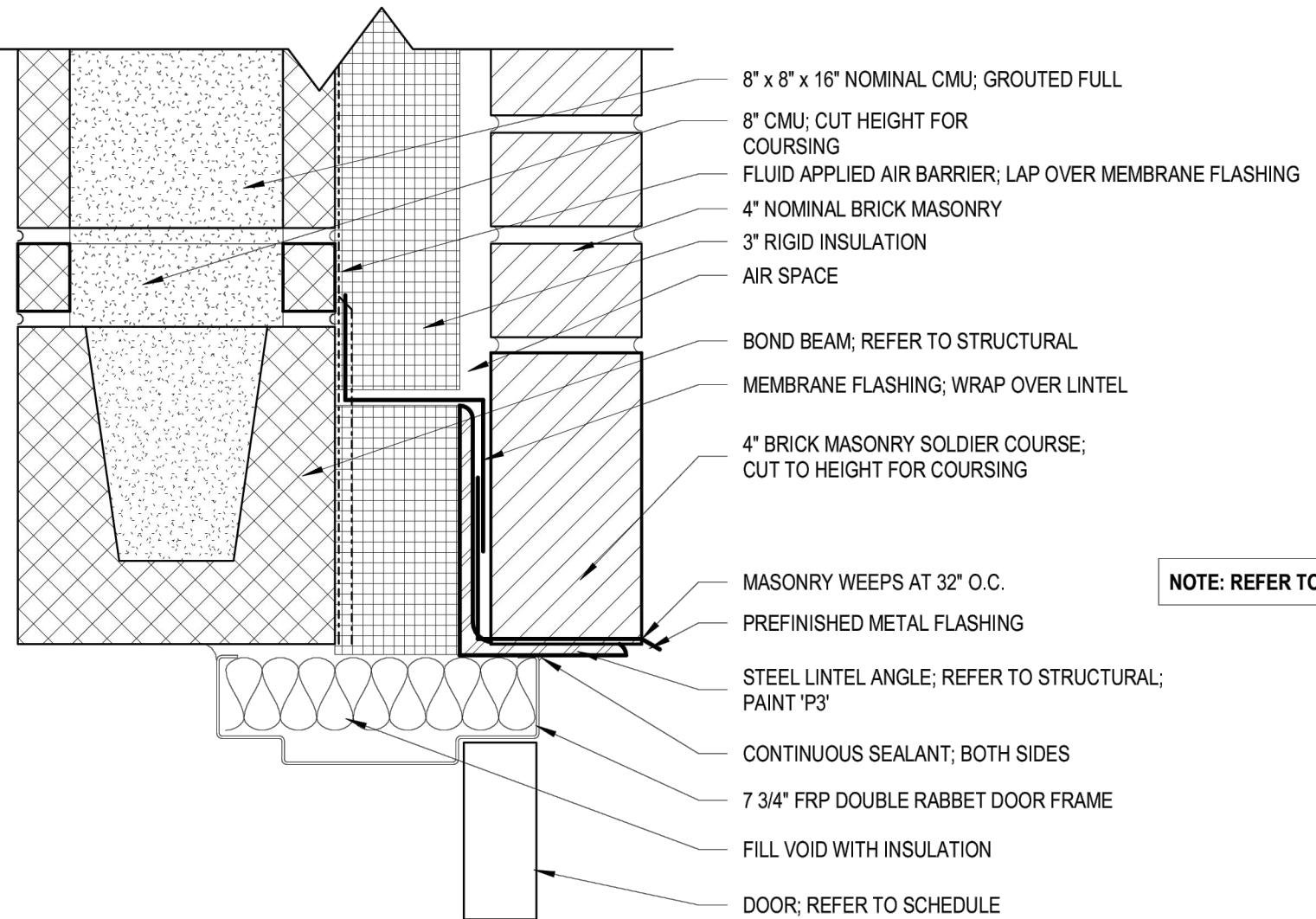
NOTE: REFER TO SPECIFICATIONS FOR MASONRY ANCHOR INFORMATION	
DATE: 01/08/2026	
REV DATE:	
REV NUM:	
RECORD:	
PROJECT No. J22530	
MANAGER: J. DEVINE	
DESIGNER: C. MEYER	
DRAFTER: C. MEYER	
REVIEWER:	

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architecture + design, pc

A78-602

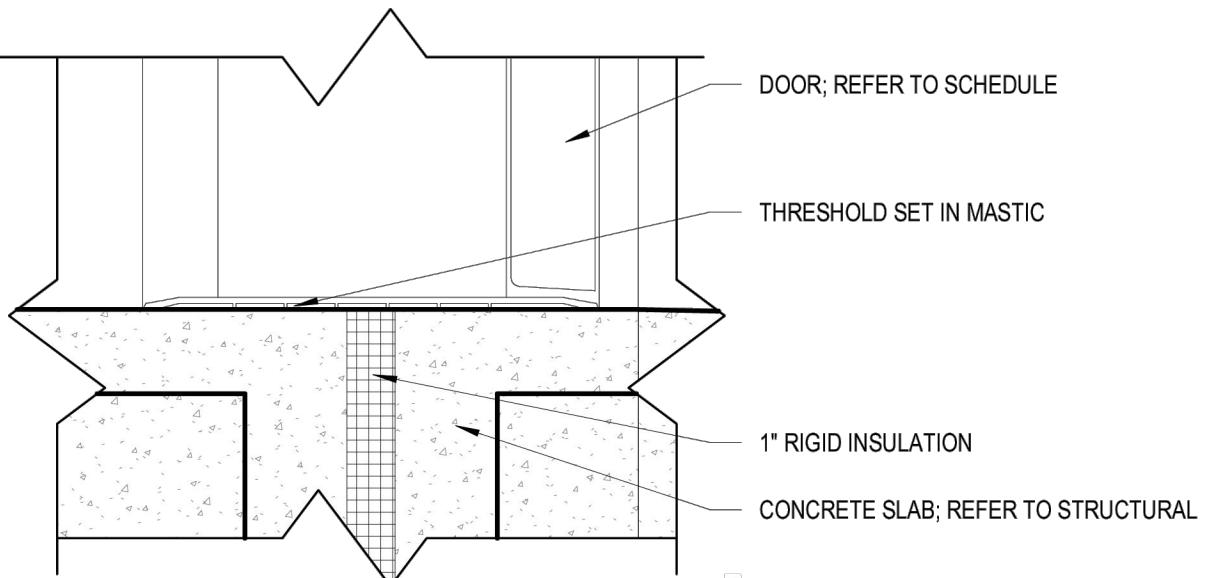
LICENSED ARCHITECT
REG. NO. 13881
JAMES DEVINE
DATE: 01/08/2026
SOUTH DAKOTA

ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - DOOR DETAILS



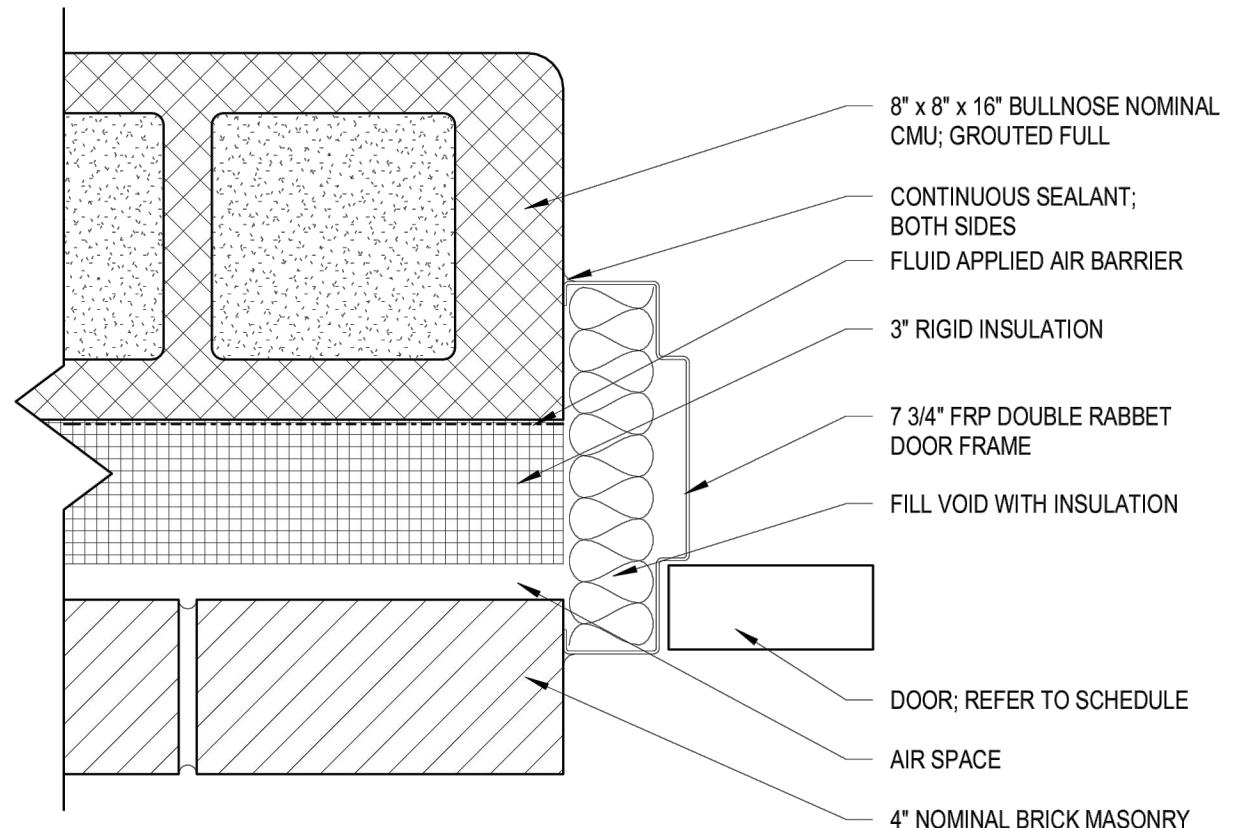
1 Fiberglass Door Frame - Head

Scale: 3" = 1'-0"



2 Fiberglass Door Frame - Threshold

Scale: 3" = 1'-0"

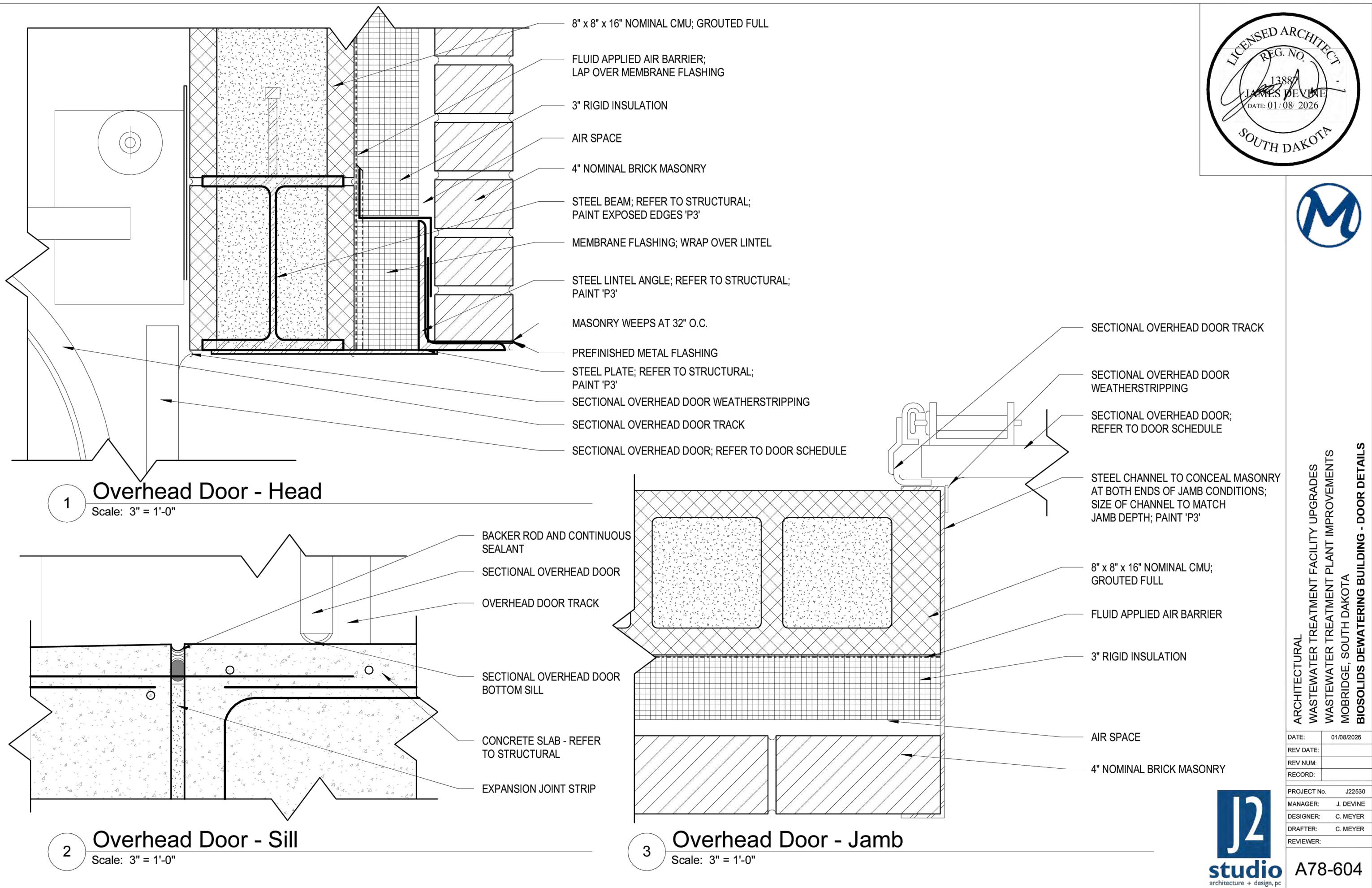


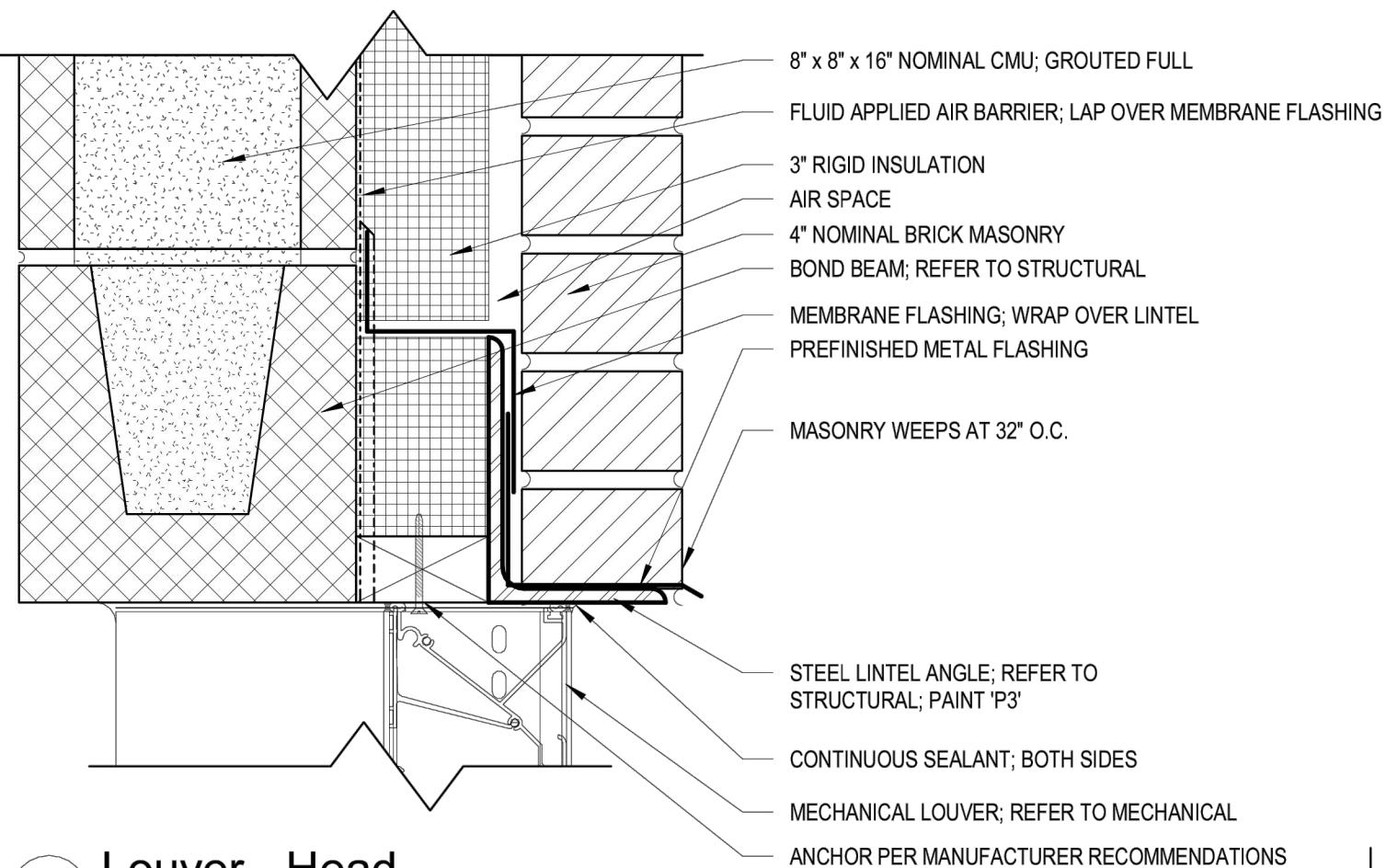
3 Fiberglass Door Frame - Jamb

Scale: 3" = 1'-0"

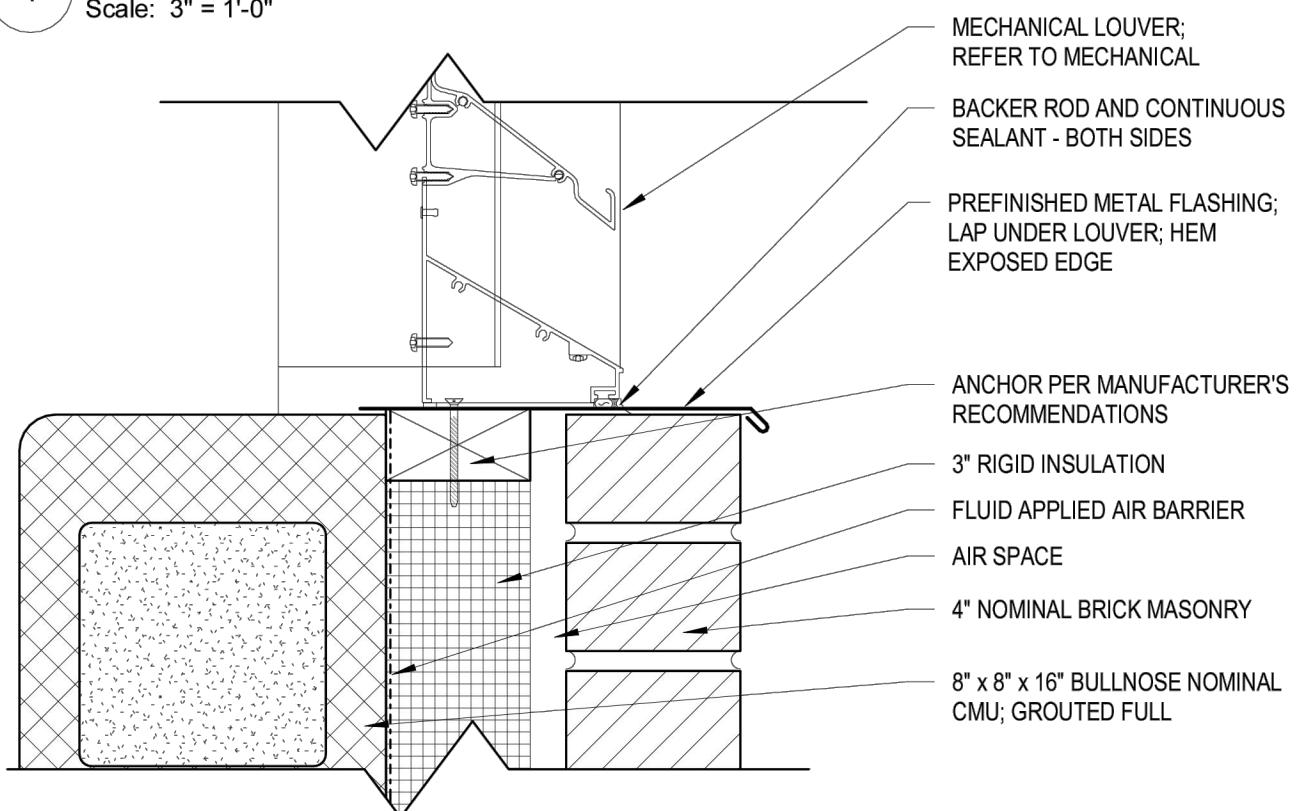
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - DOOR DETAILS

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:

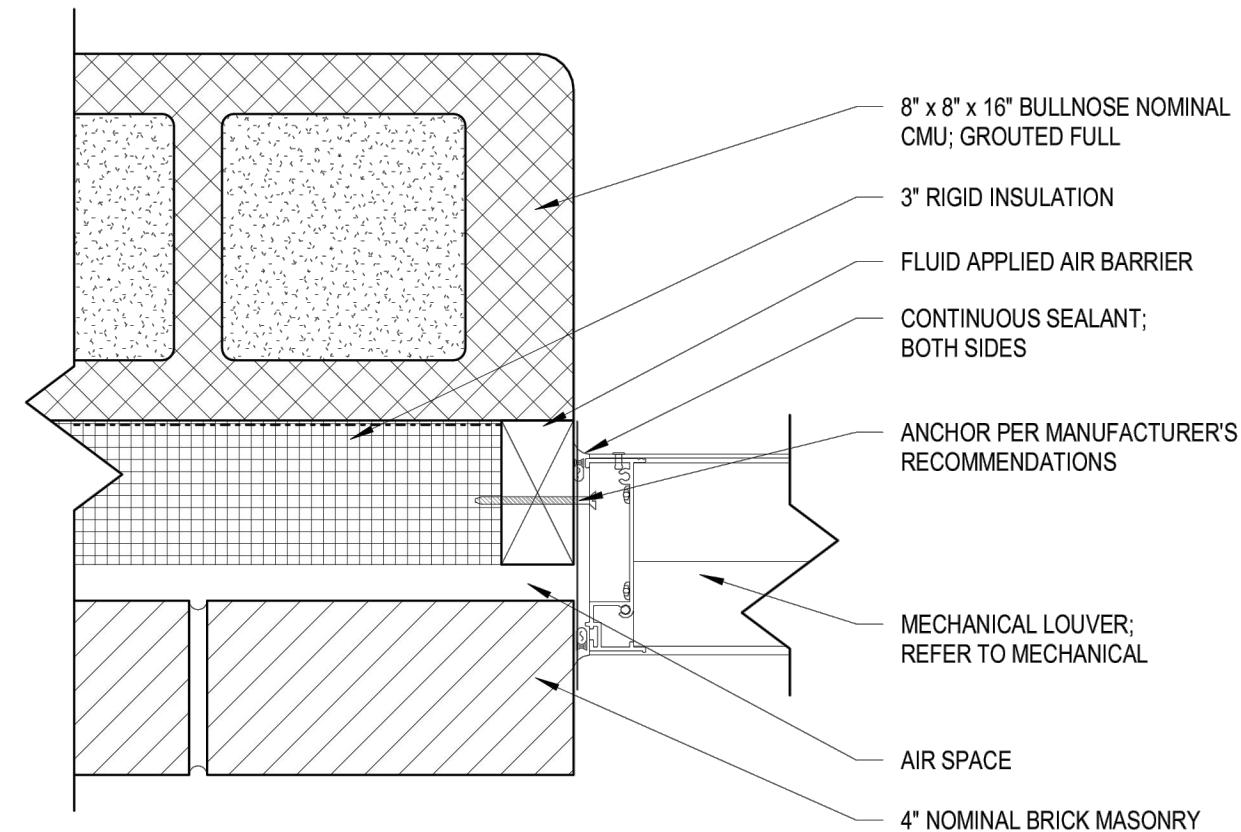




1 Louver - Head
Scale: 3" = 1'-0"



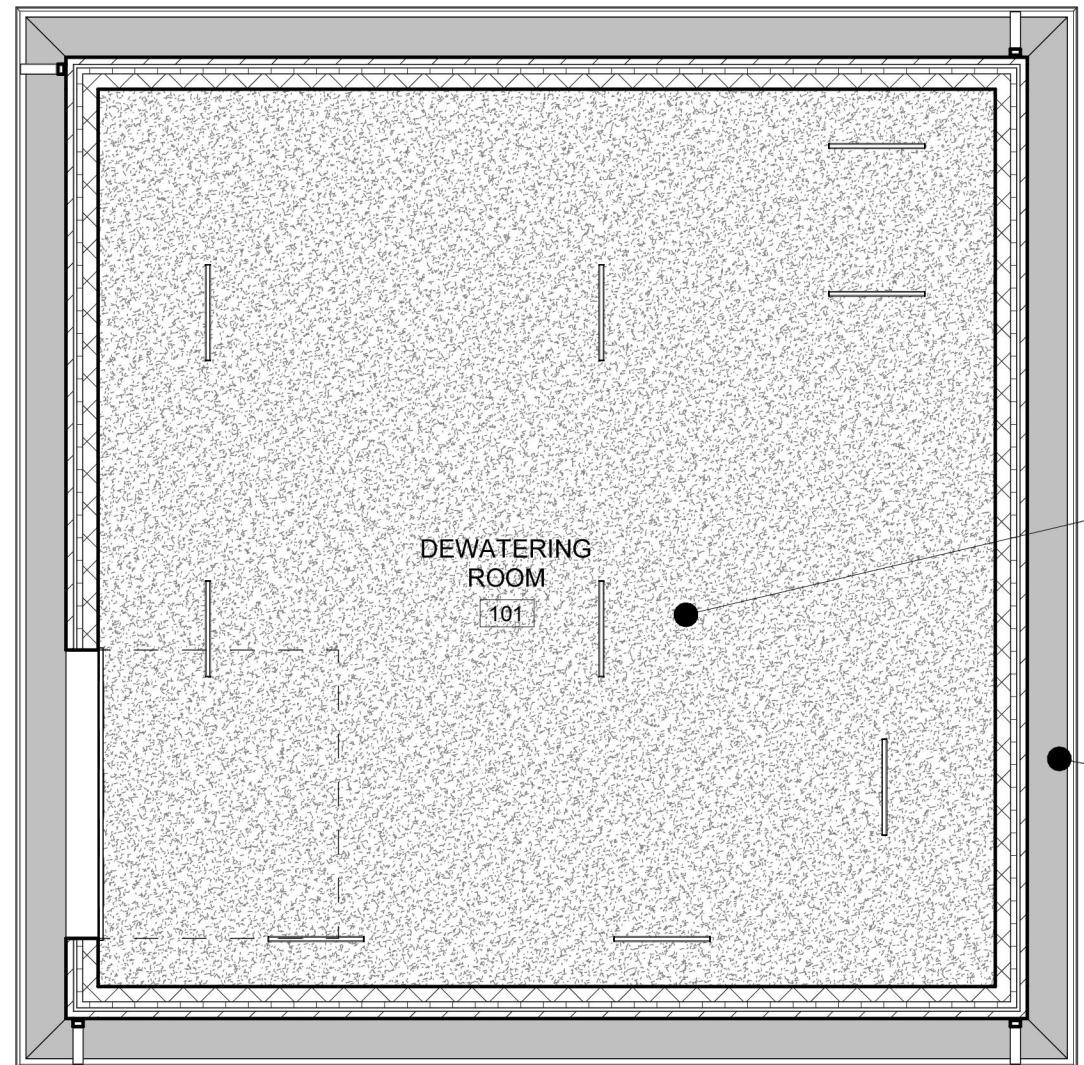
2 Louver - Sill
Scale: 3" = 1'-0"



3 Louver - Jamb
Scale: 3" = 1'-0"

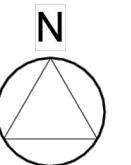
ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - LOUVER DETAILS

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:



1 Main Floor Reflected Ceiling Plan

Scale: 1/8" = 1'-0"

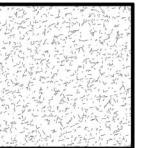


CEILING FINISH LEGEND:

CEILING TYPE
CEILING FINISH
CEILING HEIGHT
CEILING FINISH NOTES

GYP	●
P2	●
14' - 2"	●
1,3	●

MSP	●
MSP1	●
14'-0"	●
2	●



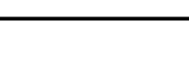
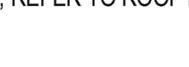
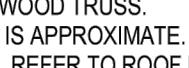
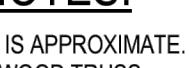
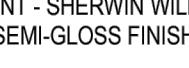
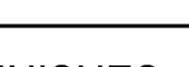
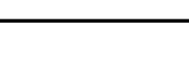
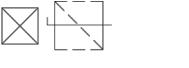
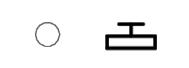
GYP - GYPSUM
DRYWALL
CEILING



MSP - METAL
SOFFIT PANEL

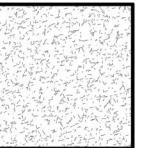


CONC
CAST-IN-PLACE
CONCRETE



CEILING TYPE
CEILING FINISH
CEILING HEIGHT
CEILING FINISH NOTES

●
●
●
●



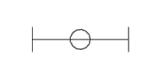
GYP - GYPSUM
DRYWALL
CEILING



CONC
CAST-IN-PLACE
CONCRETE



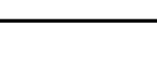
LIGHTING -
REFER TO ELECTRICAL



LIGHTING -
REFER TO ELECTRICAL



LIGHTING -
REFER TO ELECTRICAL



LIGHTING -
REFER TO ELECTRICAL



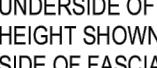
LIGHTING -
REFER TO ELECTRICAL



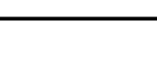
LIGHTING -
REFER TO ELECTRICAL



LIGHTING -
REFER TO ELECTRICAL



LIGHTING -
REFER TO ELECTRICAL



LIGHTING -
REFER TO ELECTRICAL



CEILING FINISHES:

P2 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (CEILING COLOR)

MSP1 - PREFINISHED METAL SOFFIT PANEL; PAC-CLAD FLUSH SOFFIT PANEL; CONTINUOUSLY VENTED; COLOR - MEDIUM BRONZE

SC1 - SEALED CONCRETE

CEILING NOTES:

1. HEIGHT SHOWN IS APPROXIMATE. ATTACH GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSS.
2. HEIGHT SHOWN IS APPROXIMATE. ATTACH SOFFIT PANEL TO BOTTOM SIDE OF FASCIA, REFER TO ROOF DETAILS.

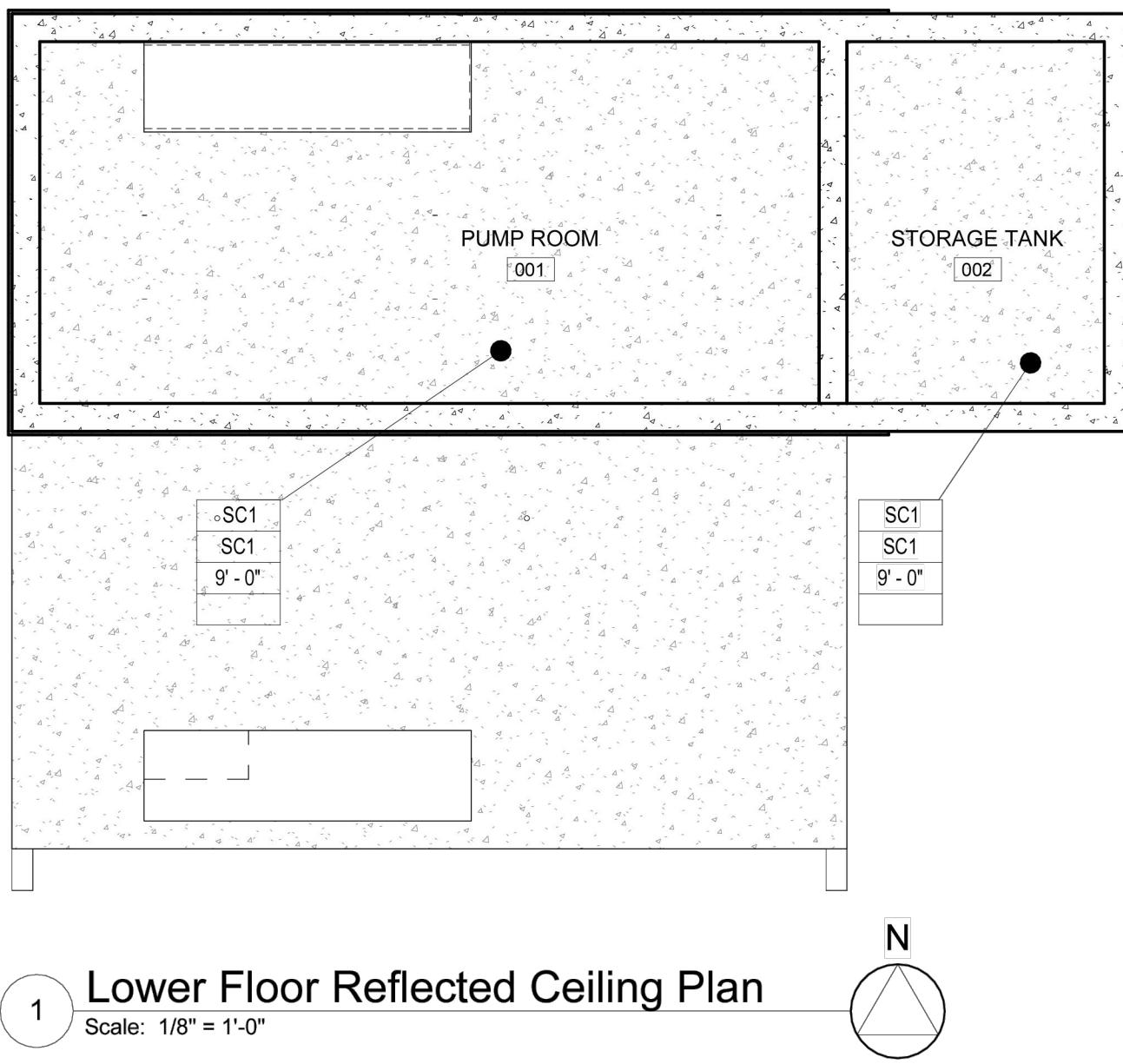


ARCHITECTURAL
WASTEWATER TREATMENT FACILITY UPGRADES
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - MAIN FLOOR REFLECTED CEILING PLAN

DATE: 01/08/2026
REV DATE:
REV NUM:
RECORD:
PROJECT No. J22530
MANAGER: J. DEVINE
DESIGNER: C. MEYER
DRAFTER: C. MEYER
REVIEWER:

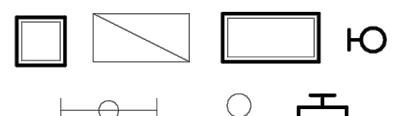
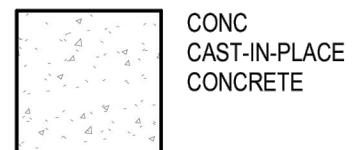
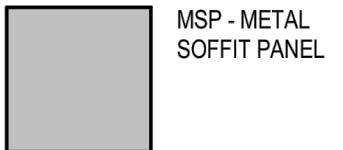
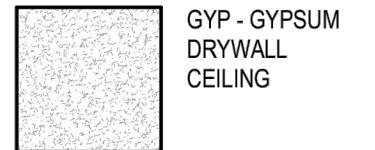
J2
studio
architecture + design, pc

A78-901



CEILING FINISH LEGEND:

CEILING TYPE _____
 CEILING FINISH _____
 CEILING HEIGHT _____
 CEILING FINISH NOTES _____



GYP - GYPSUM
DRYWALL
CEILING

MSP - METAL
SOFFIT PANEL

CONC
CAST-IN-PLACE
CONCRETE

LIGHTING -
REFER TO ELECTRICAL

HVAC REGISTERS -
REFER TO MECHANICAL

CEILING FINISHES:

P2 - EPOXY PAINT - SHERWIN WILLIAMS; COLOR - AESTHETIC WHITE #SW7035; SEMI-GLOSS FINISH (CEILING COLOR)

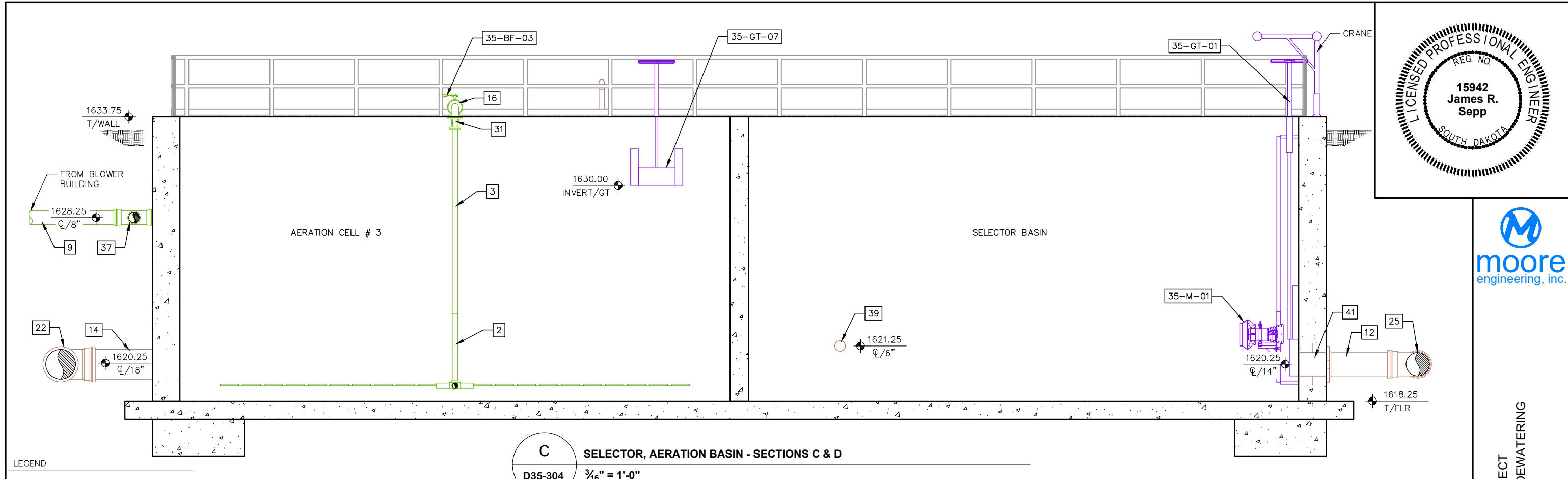
MSP1 - PREFINISHED METAL SOFFIT PANEL; PAC-CLAD FLUSH SOFFIT PANEL; CONTINUOUSLY VENTED; COLOR - MEDIUM BRONZE

SC1 - SEALED CONCRETE

CEILING NOTES:

1. HEIGHT SHOWN IS APPROXIMATE. ATTACH GYPSUM BOARD TO UNDERSIDE OF WOOD TRUSS.
2. HEIGHT SHOWN IS APPROXIMATE. ATTACH SOFFIT PANEL TO BOTTOM SIDE OF FASCIA, REFER TO ROOF DETAILS.

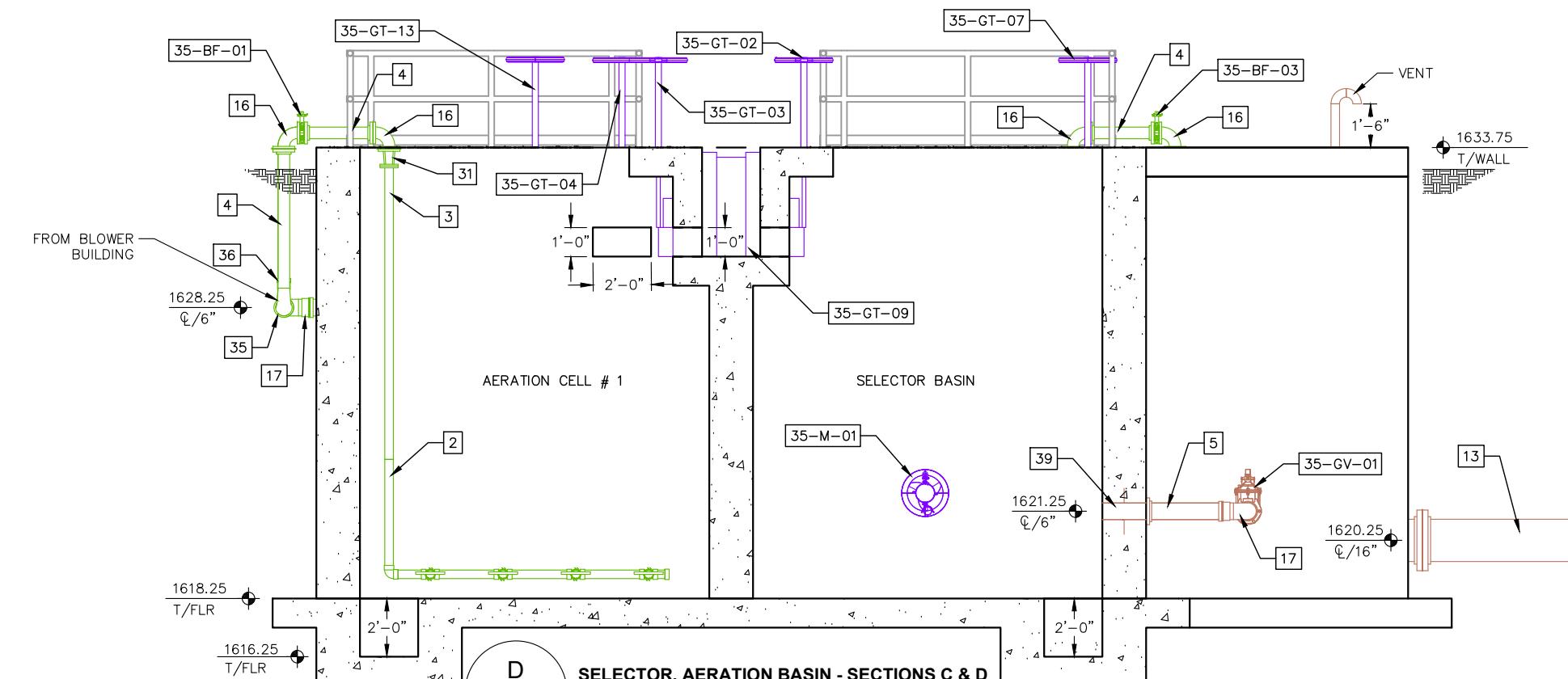




LEGEND

- NEW BUILDING
NEW EQUIPMENT
NEW PIPING
NEW AIR PIPING

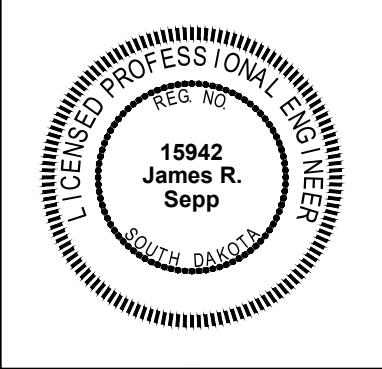
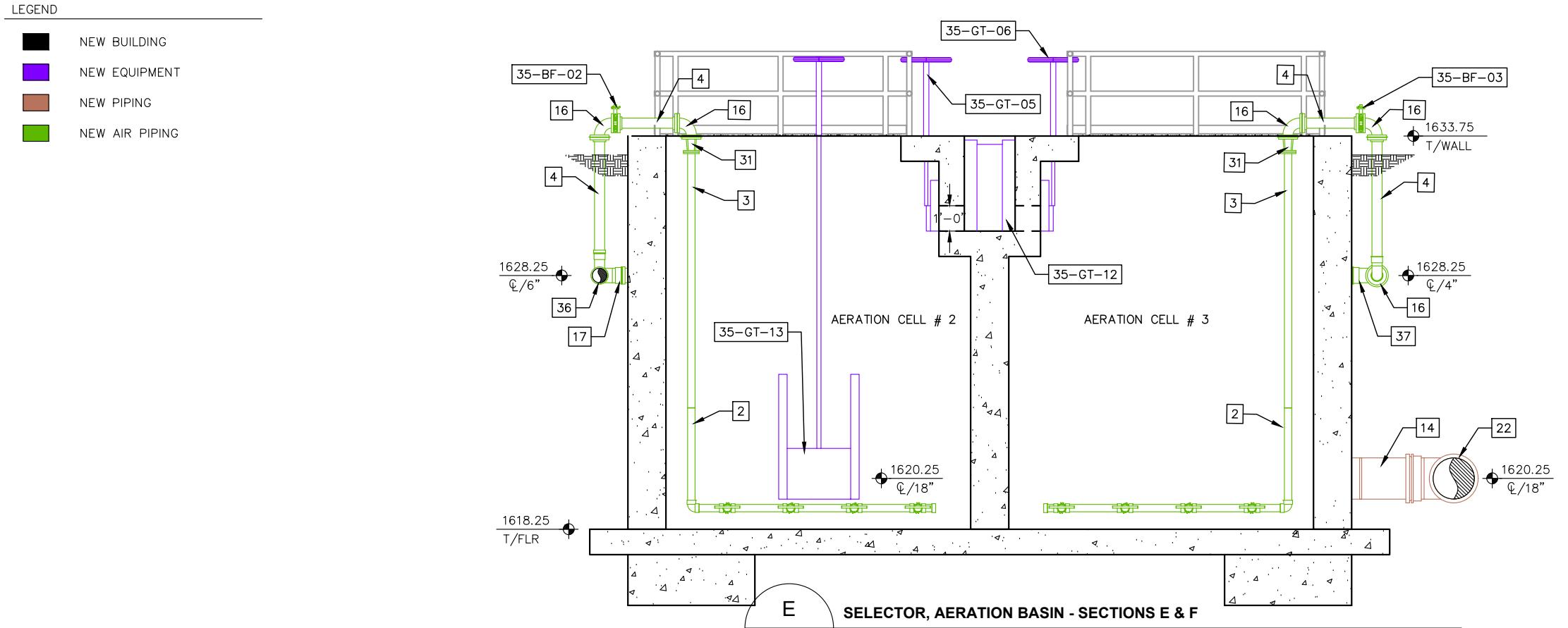
C **SELECTOR, AERATION BASIN - SECTIONS C & D**
D35-304 $\frac{3}{16}$ " = 1'-0"



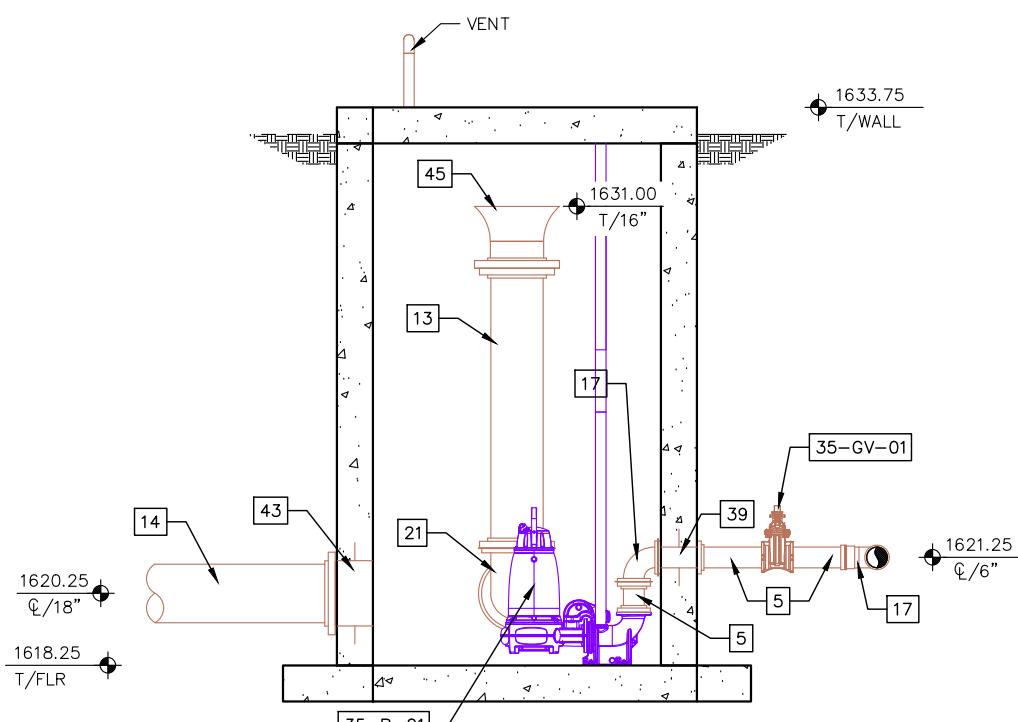
D **SELECTOR, AERATION BASIN - SECTIONS C & D**
D35-304 $\frac{3}{16}$ " = 1'-0"

PROCESS	WASTEWATER	AERATION	MOBRIDGE	SELECTOR
DATE:	1.8.26			
REV DATE:	---			
REV NUM:	--			
RECORD:	--			
PROJECT No.		22931		
MANAGER:		JBK		
DESIGNER:		JRS		
DRAFTER:		HJE/MAZ/JNG		
REVIEWER:		JSW		

D35-304



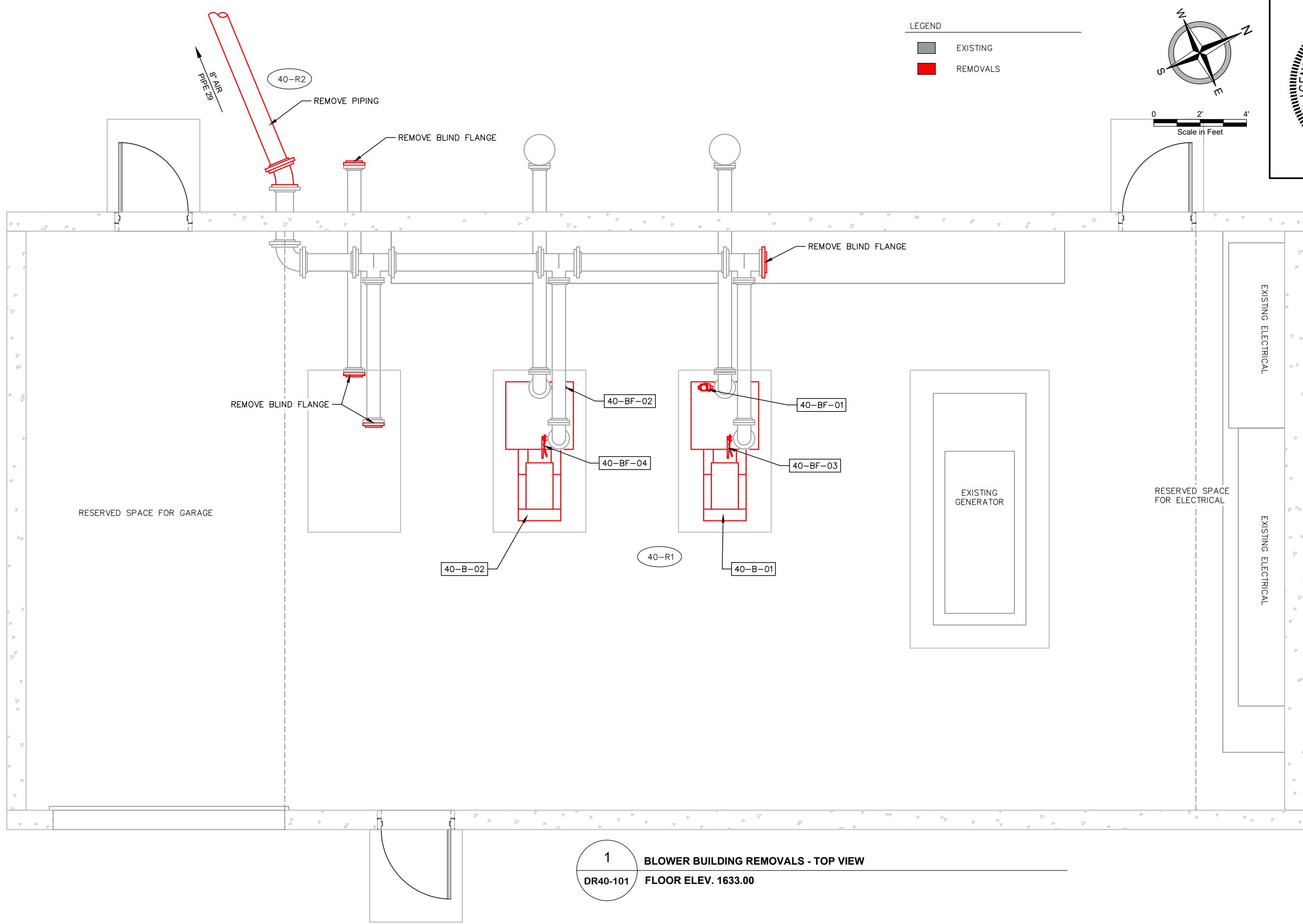
M
moore
engineering, inc.



PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
SELECTOR, AERATION BASIN - SECTIONS E & F

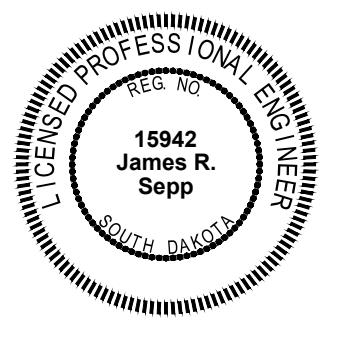
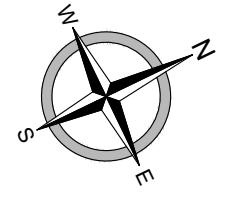
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

D35-305



LEGEND

- EXISTING (Grey)
- REMOVALS (Red)



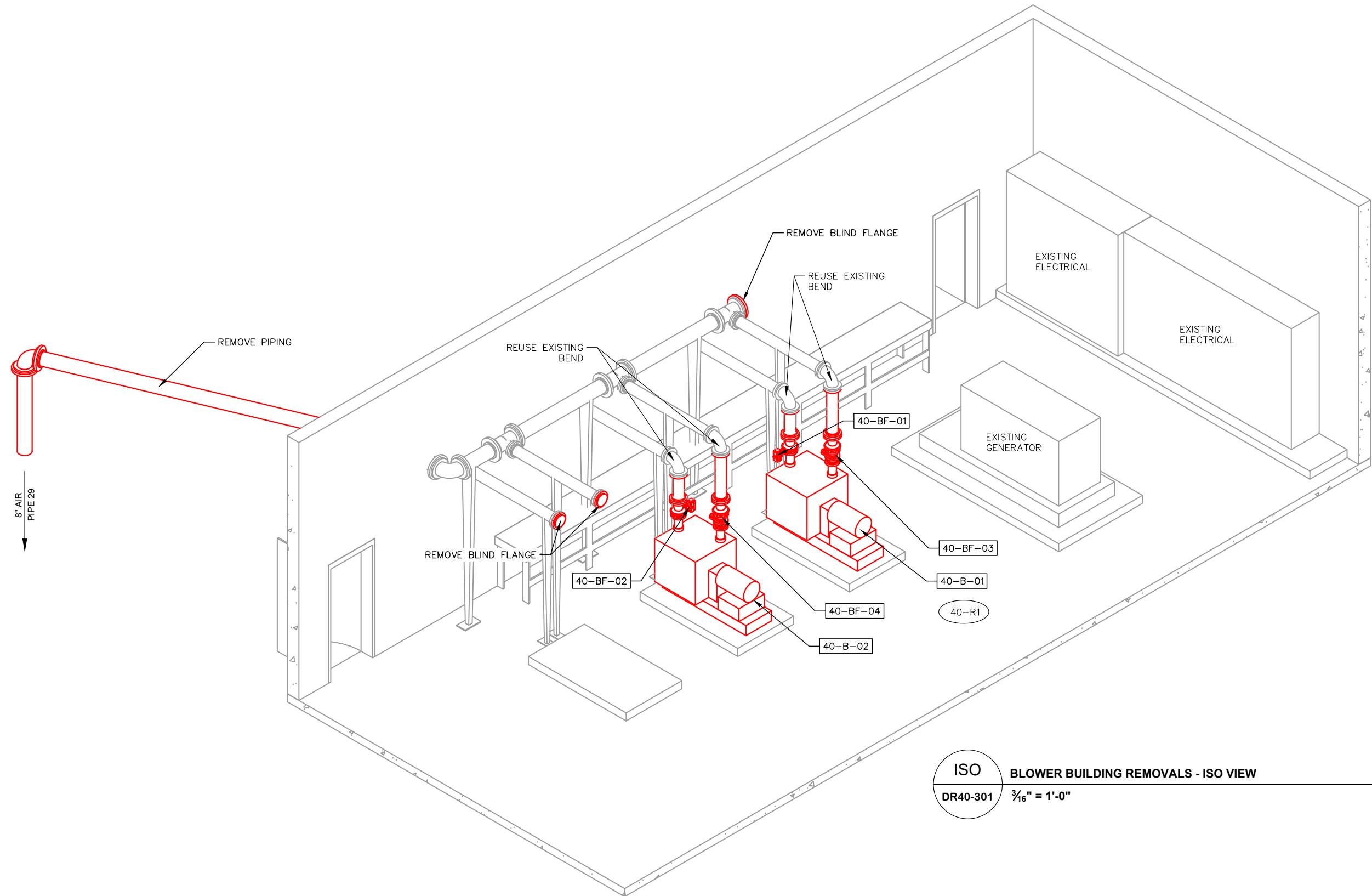
PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

BLOWER BUILDING REMOVALS - TOP VIEW

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---

PROJECT No. 22931
MANAGER: JBK
DESIGNER: JRS
DRAFTER: HJE/MAZ/JNG
REVIEWER: JSW

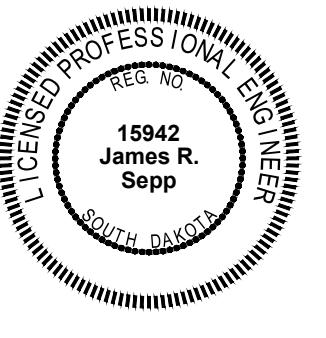
DR40-101



ISO
DR40-301 $\frac{3}{16}'' = 1'-0''$
BLOWER BUILDING REMOVALS - ISO VIEW

PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
BLOWER BUILDING REMOVALS - ISO VIEW

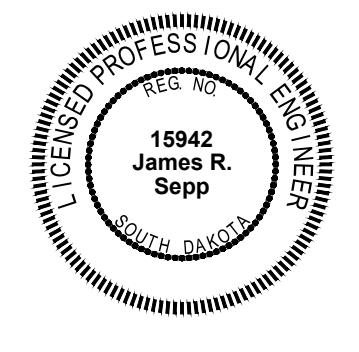
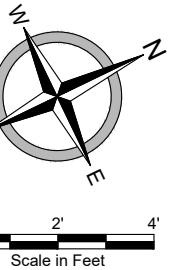
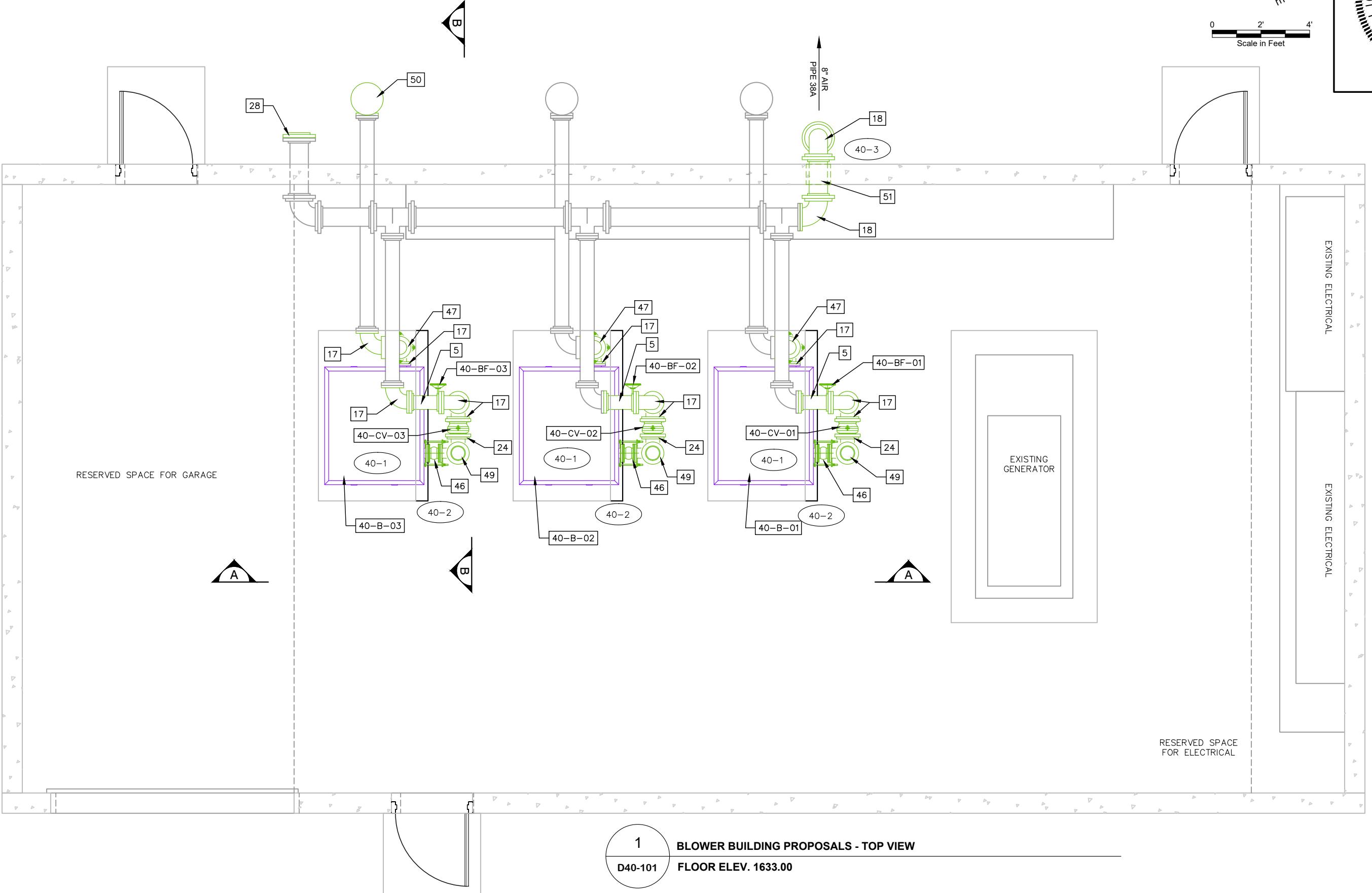
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW



DR40-301

LEGEND

- EXISTING
- NEW AIR PIPING
- NEW EQUIPMENT

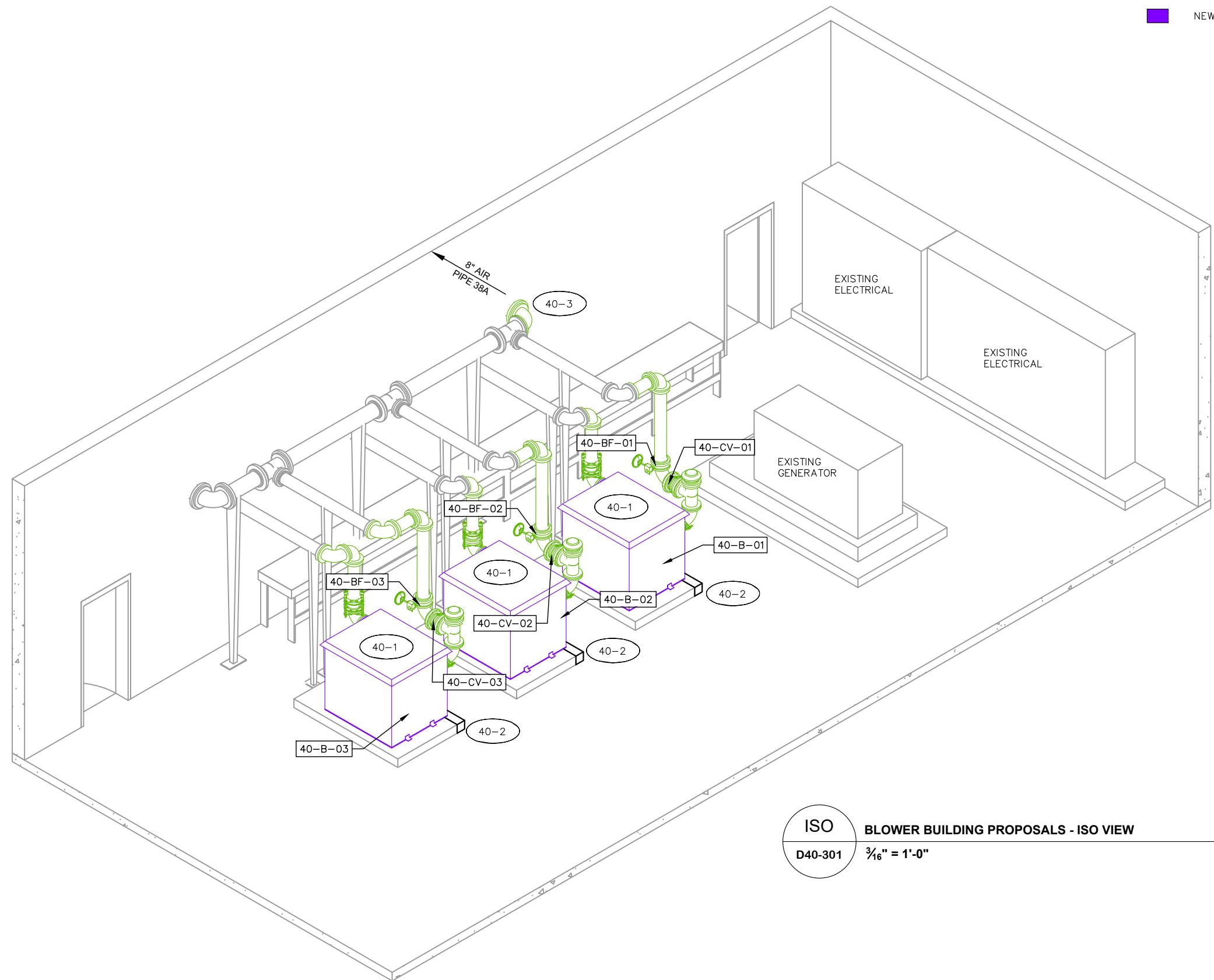


PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

BLOWER BUILDING PROPOSALS - TOP VIEW

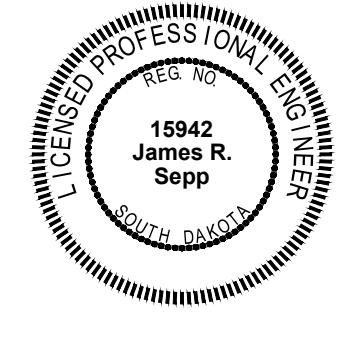
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---

D40-101



LEGEND

■ EXISTING
■ NEW AIR PIPING
■ NEW EQUIPMENT

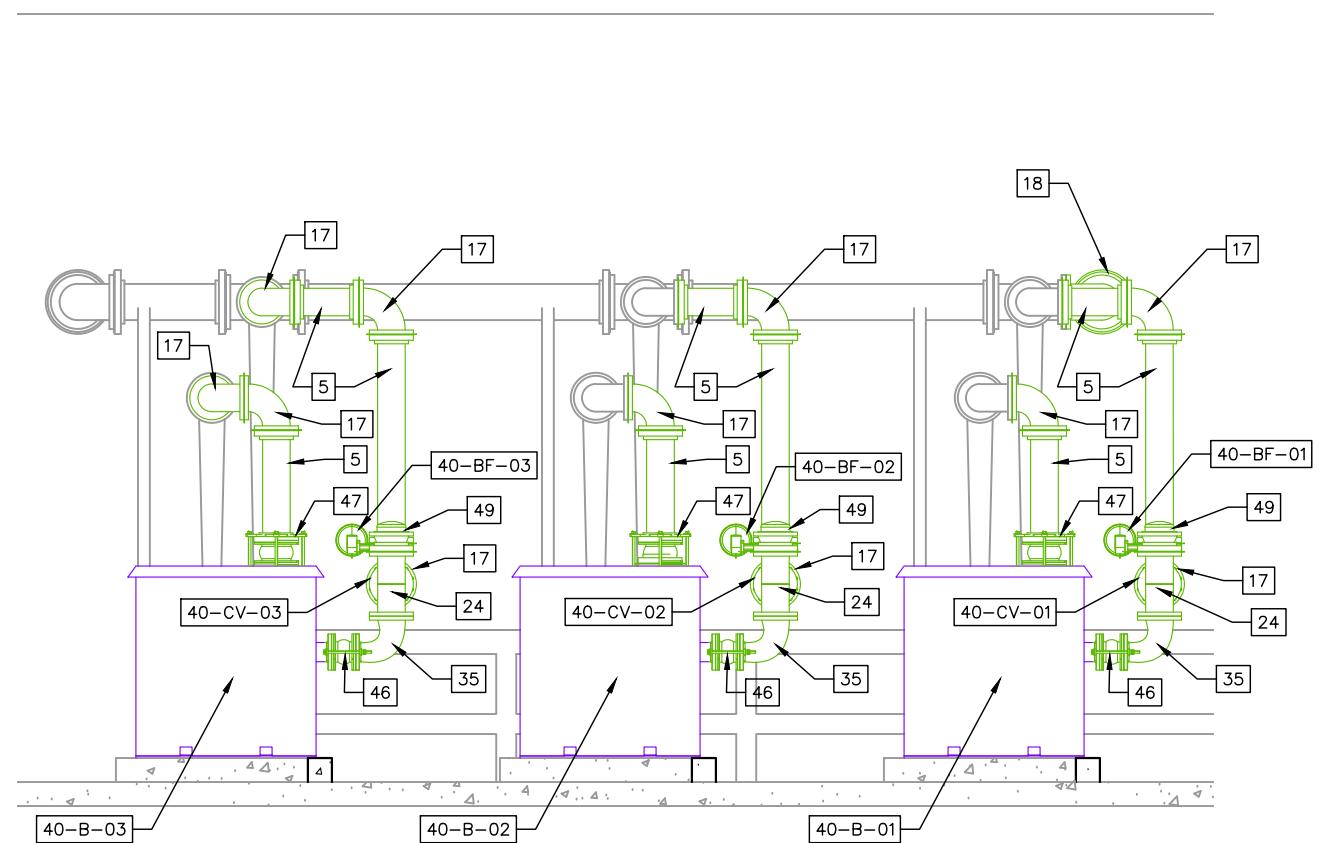


PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

BLOWER BUILDING PROPOSALS - ISO VIEW

PROCESS	WASTEWATER	AERATION	MOBRIDGE	BLOWER
DATE:	1.8.26			
EV DATE:	---			
EV NUM:	---			
RECORD:	---			
PROJECT No.	22931			
MANAGER:	JBK			
DESIGNER:	JRS			
DRAFTER:	HJE/MAZ/JNG			
REVIEWED:	JCM			

D40-301



A

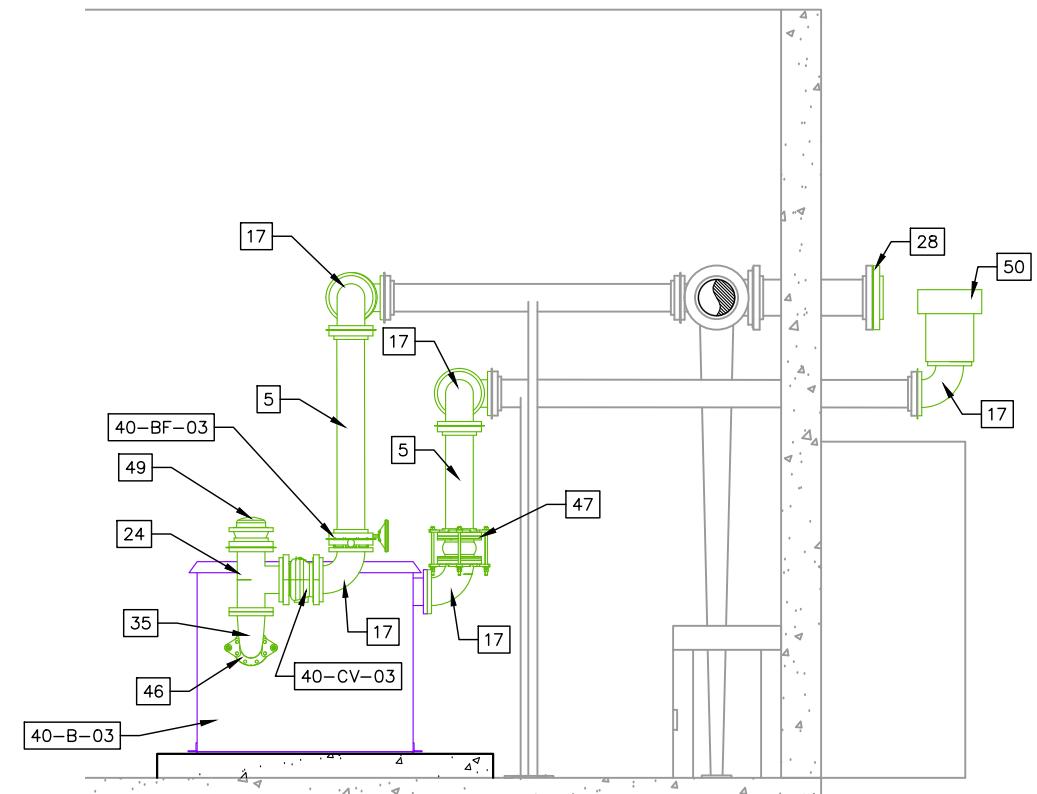
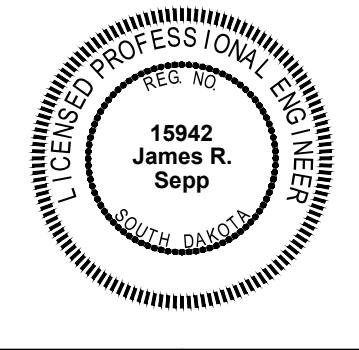
BLOWER BUILDING PROPOSALS - SECTIONS A & B

D40-302

1/4" = 1'-0"

LEGEND

- EXISTING
- NEW AIR PIPING
- NEW EQUIPMENT



B

BLOWER BUILDING PROPOSALS - SECTIONS A & B

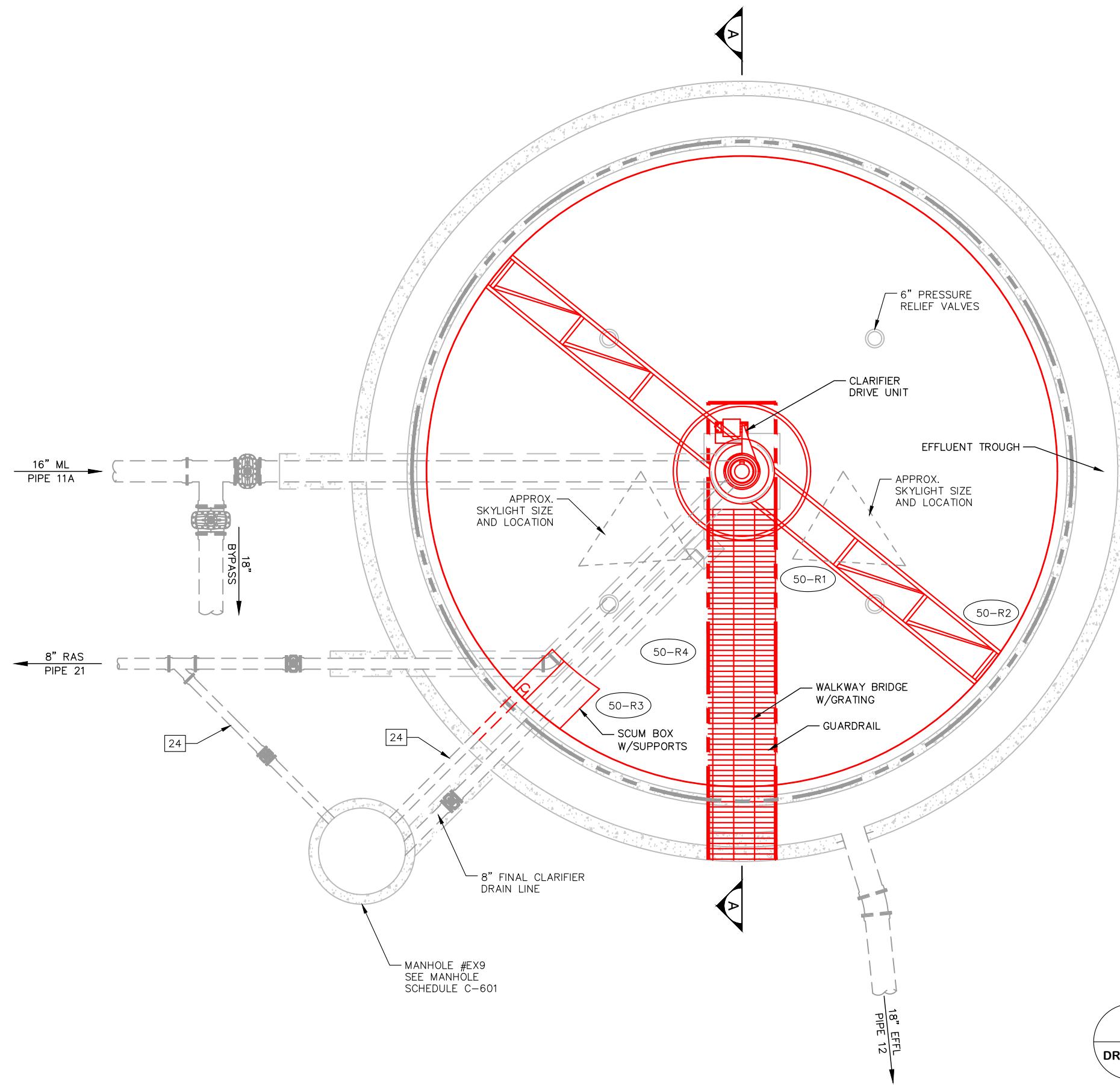
D40-302

1/4" = 1'-0"

PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
BLOWER BUILDING PROPOSALS - SECTIONS A & B

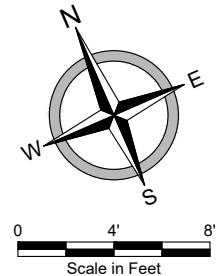
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

D40-302



1

DR50-101

FINAL CLARIFIER NO. 1 REMOVALS - PLAN VIEW
PLAN

LEGEND

- REMOVALS
- EXISTING

GENERAL PROCESS REMOVAL NOTES:

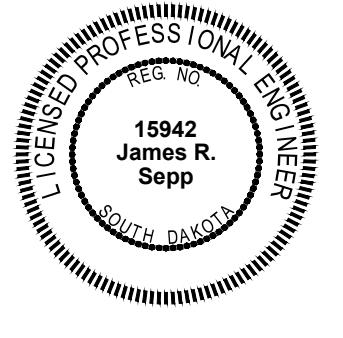
1. NEW CLARIFIER #2 (STR 52) NEED TO BE OPERATIONAL BEFORE TAKING FINAL CLARIFIER #1 (STR 50) IS TAKEN OFFLINE.
2. OWNER WILL DRAIN CLARIFIER BEFORE EQUIPMENT REMOVAL AND PROVIDE A LIGHT CLEANING.

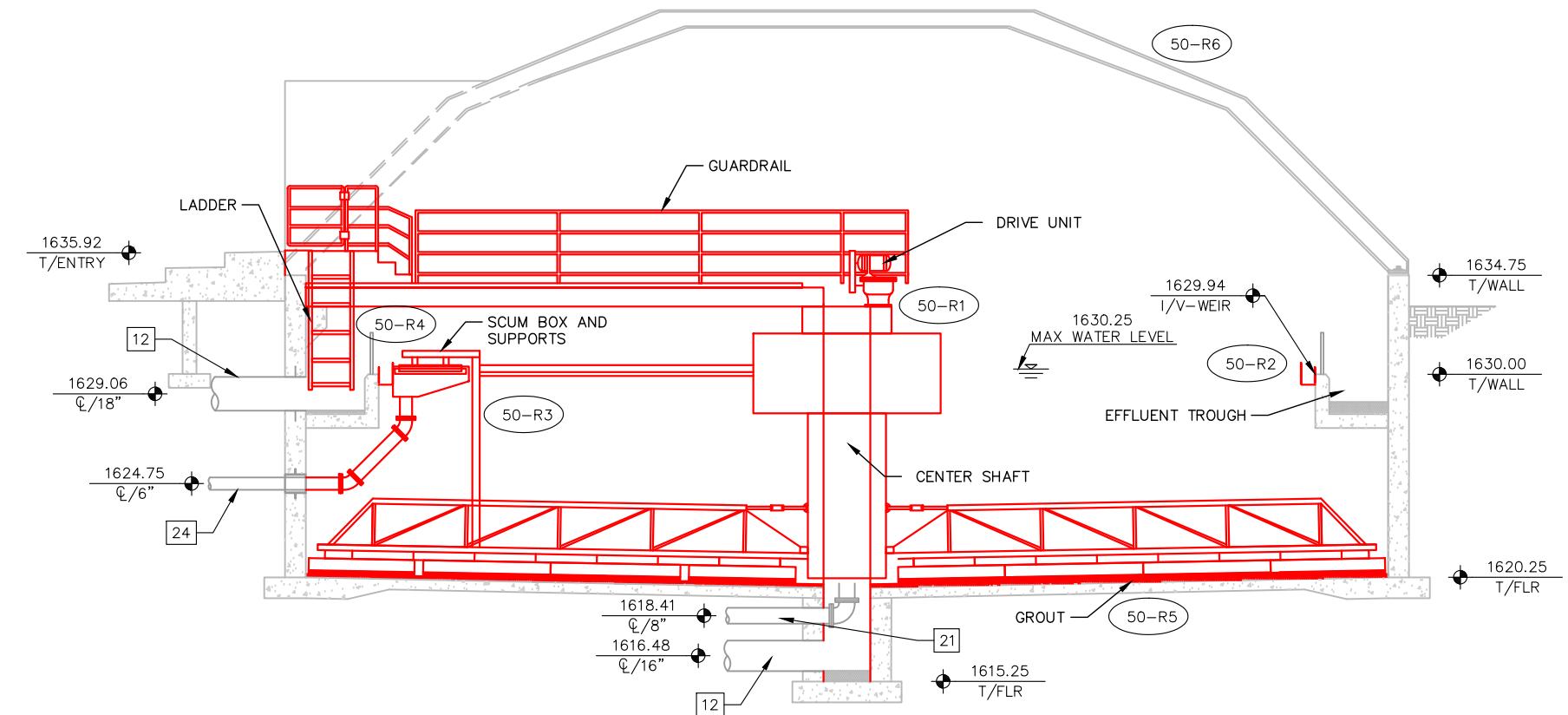
PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
FINAL CLARIFIER NO. 1 REMOVALS - PLAN VIEW

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

DR50-101

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engineering, inc.





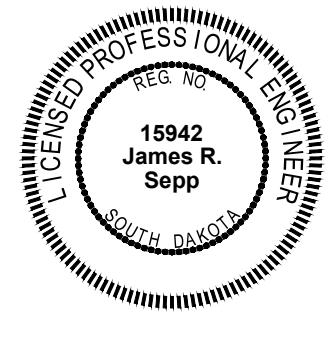
A
DR50-301

FINAL CLARIFIER #1 - SECTION A - REMOVALS

LEGEND

- REMOVALS
- EXISTING

0 4' 8'
Scale in Feet

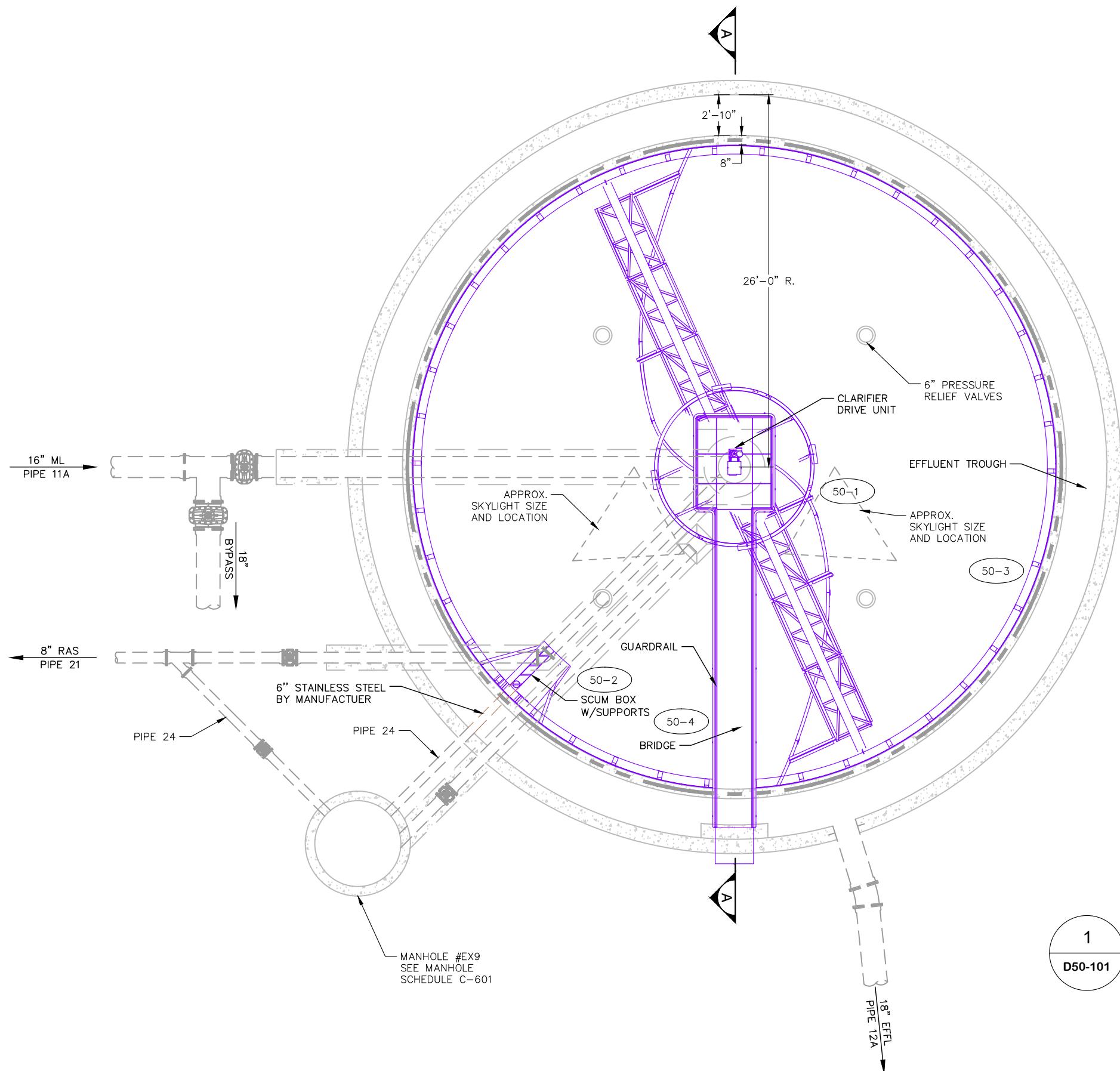


M
moore
engineering, inc.

PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
FINAL CLARIFIER NO. 1 REMOVALS - SECTION

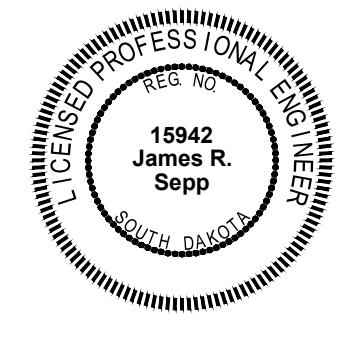
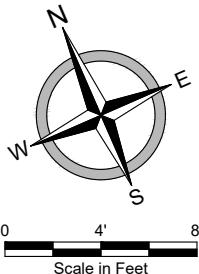
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

DR50-301



LEGEND

- EXISTING
- NEW EQUIPMENT
- NEW PIPING

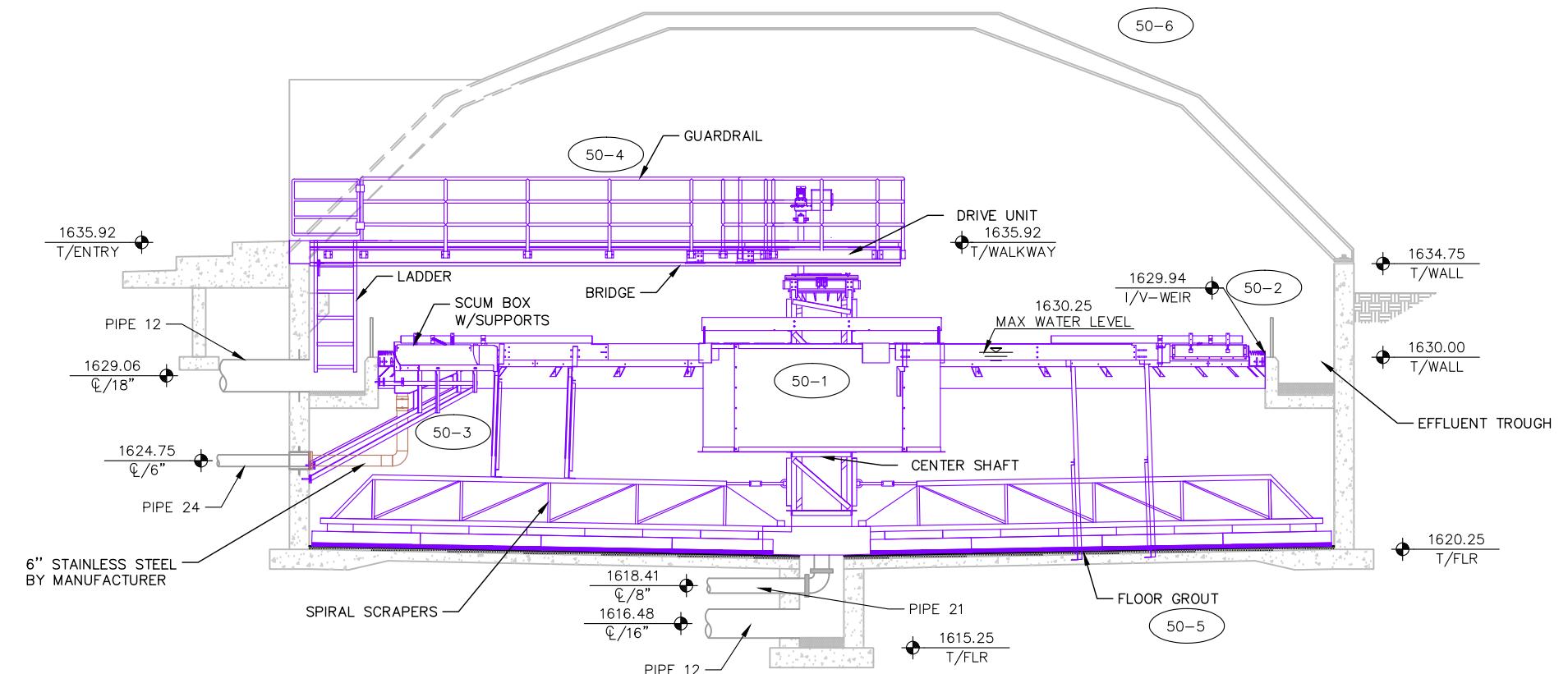


PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
FINAL CLARIFIER NO. 1 PROPOSALS - PLAN VIEW
MOBRIIDGE, SOUTH DAKOTA

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

1
FINAL CLARIFIER NO. 1 PROPOSALS - PLAN VIEW
PLAN
D50-101

D50-101



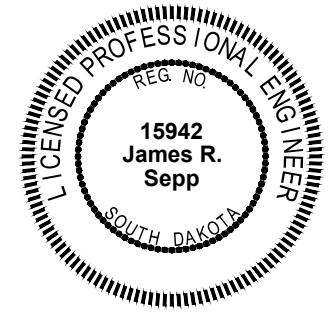
A
D50-301

FINAL CLARIFIER #1 - SECTION A

LEGEND

- EXISTING
- NEW EQUIPMENT
- NEW PIPING

0 4' 8'
Scale in Feet

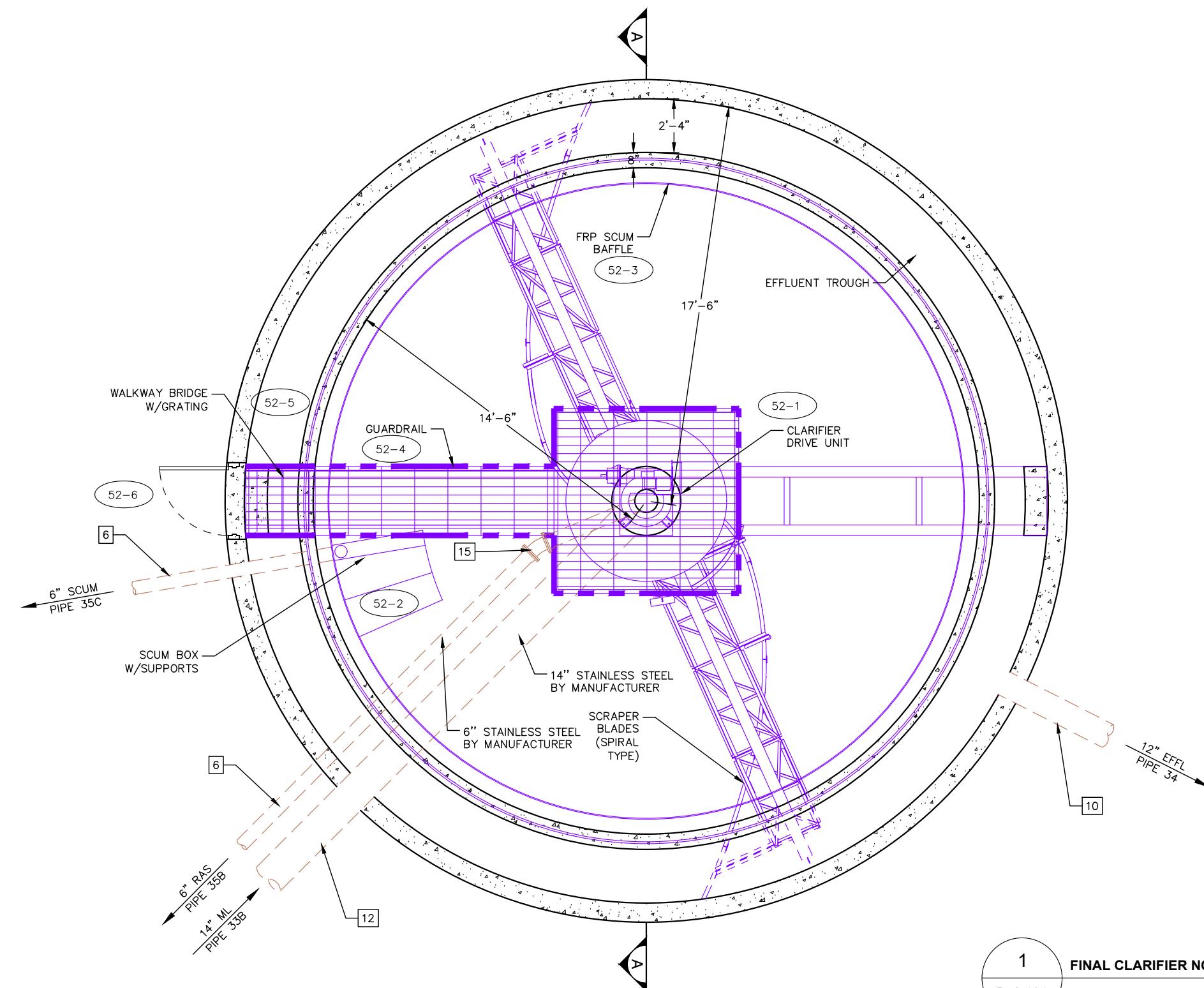


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PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
FINAL CLARIFIER NO. 1 PROPOSALS - SECTION A

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

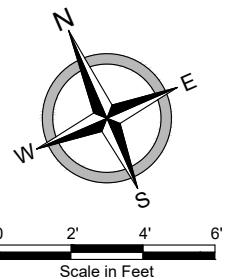
D50-301



1

FINAL CLARIFIER NO. 2 - PLAN VIEW PLAN

D52-101



LEGEND

- NEW BUILDING
- NEW EQUIPMENT
- NEW PIPING

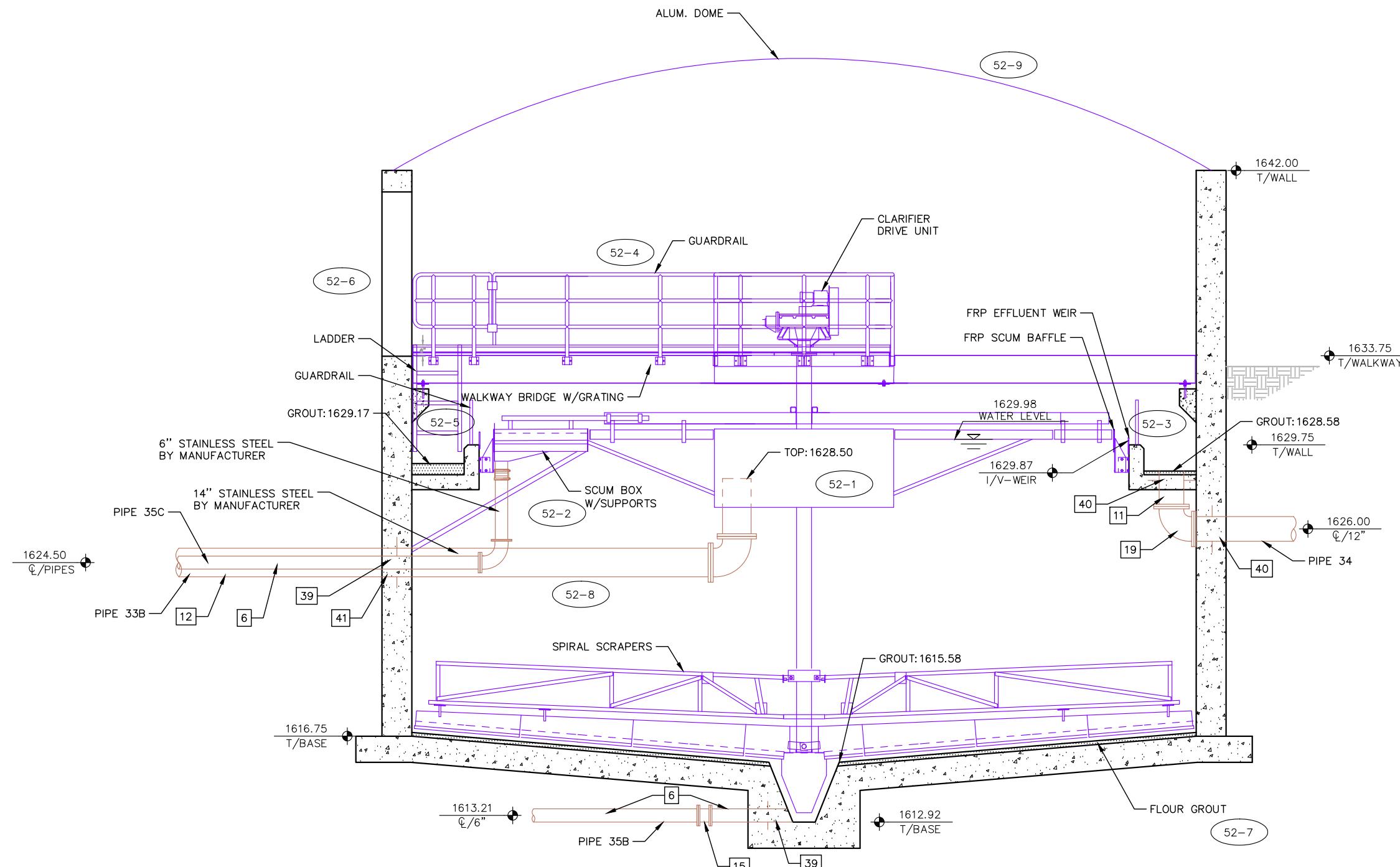


PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIIDGE, SOUTH DAKOTA

FINAL CLARIFIER NO. 2 - PLAN VIEW

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

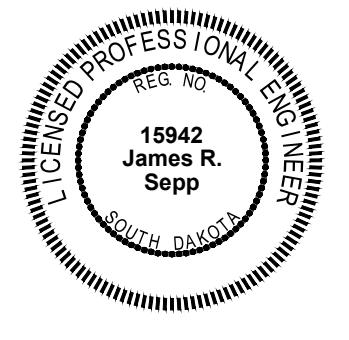
D52-101



LEGEND

- NEW BUILDING
- NEW EQUIPMENT
- NEW PIPING

0 2' 4' 6'
Scale in Feet



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PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
FINAL CLARIFIER NO. 2 - SECTION A

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

D52-301

LEGEND

-  REMOVALS
 -  EXISTING
 -  NEW EQUIPMENT
 -  NEW PIPING
 -  NEW AIR PIPING

EAST DIGESTER DIMENSIONS
DIAMETER: 35 FT
SIDE WALL DEPTH: 25.18 FT
FLOOR SLOPE: N/A

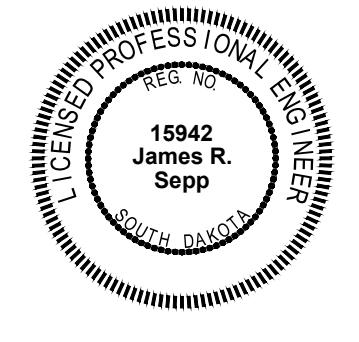
The diagram shows a vertical piping system. At the top is a vertical line labeled "6'' SIC" with an arrow pointing up. To its right is a horizontal line labeled "PIPE 28" with an arrow pointing right. A red circle labeled "65" is positioned above a valve. A horizontal line labeled "PIPE 23B" with an arrow pointing right is at the bottom. A red circle labeled "65-R1" is at the bottom. Other labels include "65-B-C" with a green arrow pointing to a valve, "46" with a green arrow pointing to a valve, "65-1" with a green arrow pointing to a valve, "32" with a green arrow pointing to a valve, "8" with a green arrow pointing to a valve, "JMP" with a red arrow pointing to a valve, "-02" with a red arrow pointing to a valve, and "R1" with a red arrow pointing to a valve. A red circle labeled "65" is also present near the top of the vertical line.

SLUDGE DIGESTION COMPLEX - PLAN VIEW

FLOOR ELEV. 1629.20

A compass rose with four main points: North (N), South (S), East (E), and West (W). Below the compass is a scale bar with markings for 0, 4', and 8' (feet). The text "Scale in Feet" is written below the scale bar.

WEST DIGESTER DIMENSIONS
DIAMETER: 35 FT
SIDE WALL DEPTH: 25.18 FT
FLOOR SLOPE: 3:12 SLOPE



WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT

AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING

PROCESSED BY: MORRIDGE, SOUTH DAKOTA

SLUDGE DIGESTION COMPLEX - PLAN VIEW

MURKIDGE, SOUTH DAKOTA

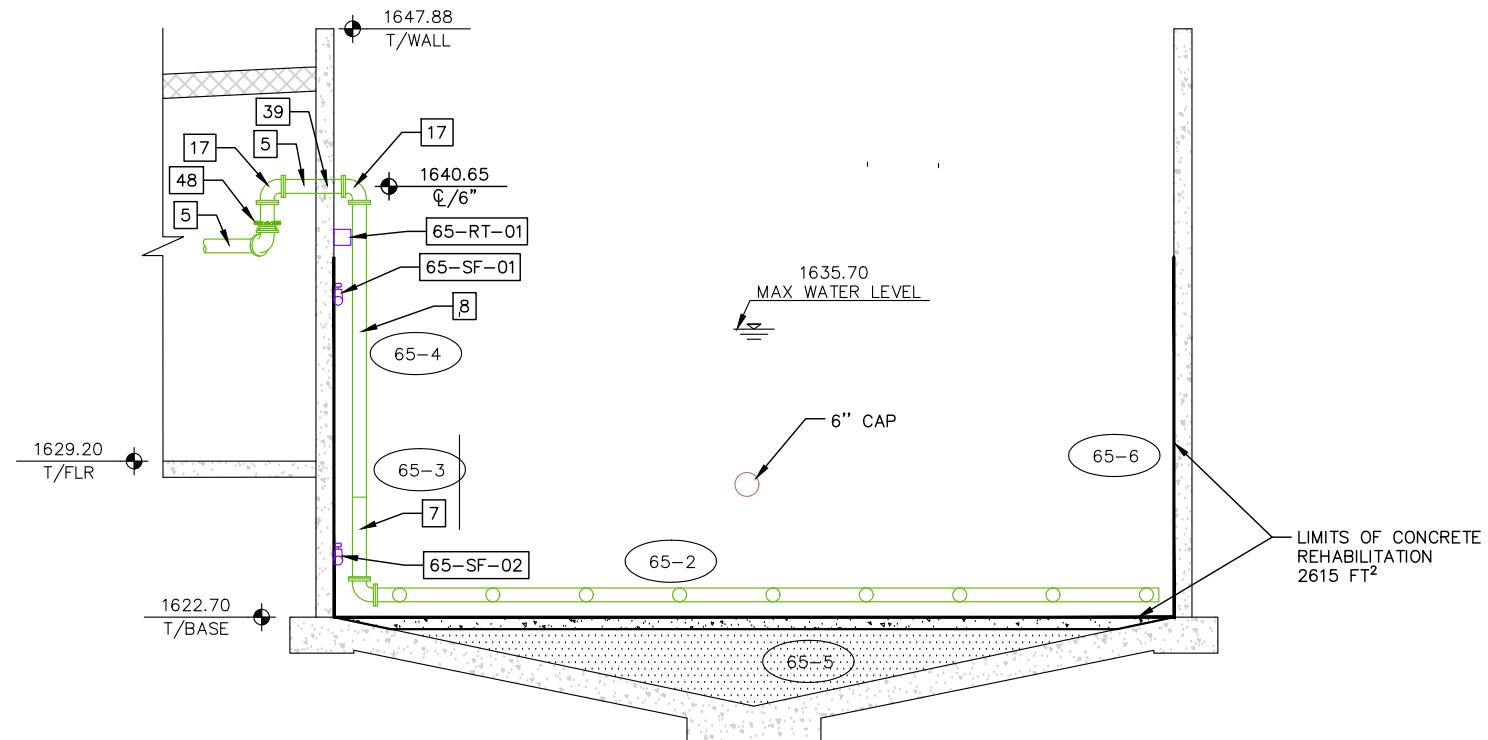
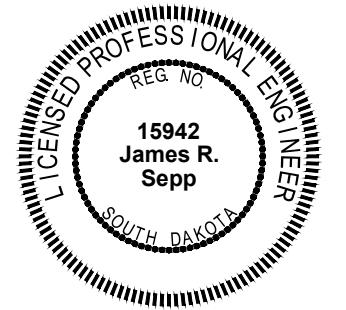
ATE:	1.8.26
EV DATE:	---
EV NUM:	---
ECORD:	---

PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	JNG
REVIEWER:	JSW

D65-101

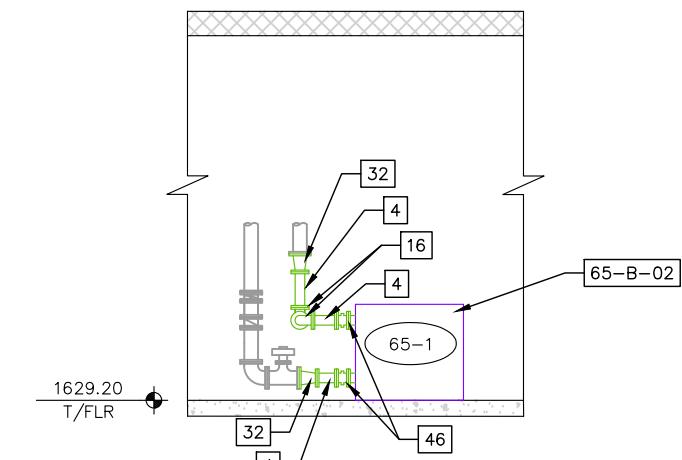
LEGEND

- █ REMOVALS
- █ EXISTING
- █ NEW EQUIPMENT
- █ NEW PIPING
- █ NEW AIR PIPING



A

SLUDGE DIGESTION COMPLEX - SECTION A

D65-301 $\frac{1}{8}'' = 1'-0''$ 

B

SLUDGE DIGESTION COMPLEX - SECTION B

D65-301 $\frac{1}{8}'' = 1'-0''$

NOTES:
 1. BLOWER AND PIPING TO BE THE SAME
 FOR 65-B-01 AND 65-B-02.

PROCESS
 WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
 AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
 MOBRIDGE, SOUTH DAKOTA
 SLUDGE DIGESTION COMPLEX - SECTION A

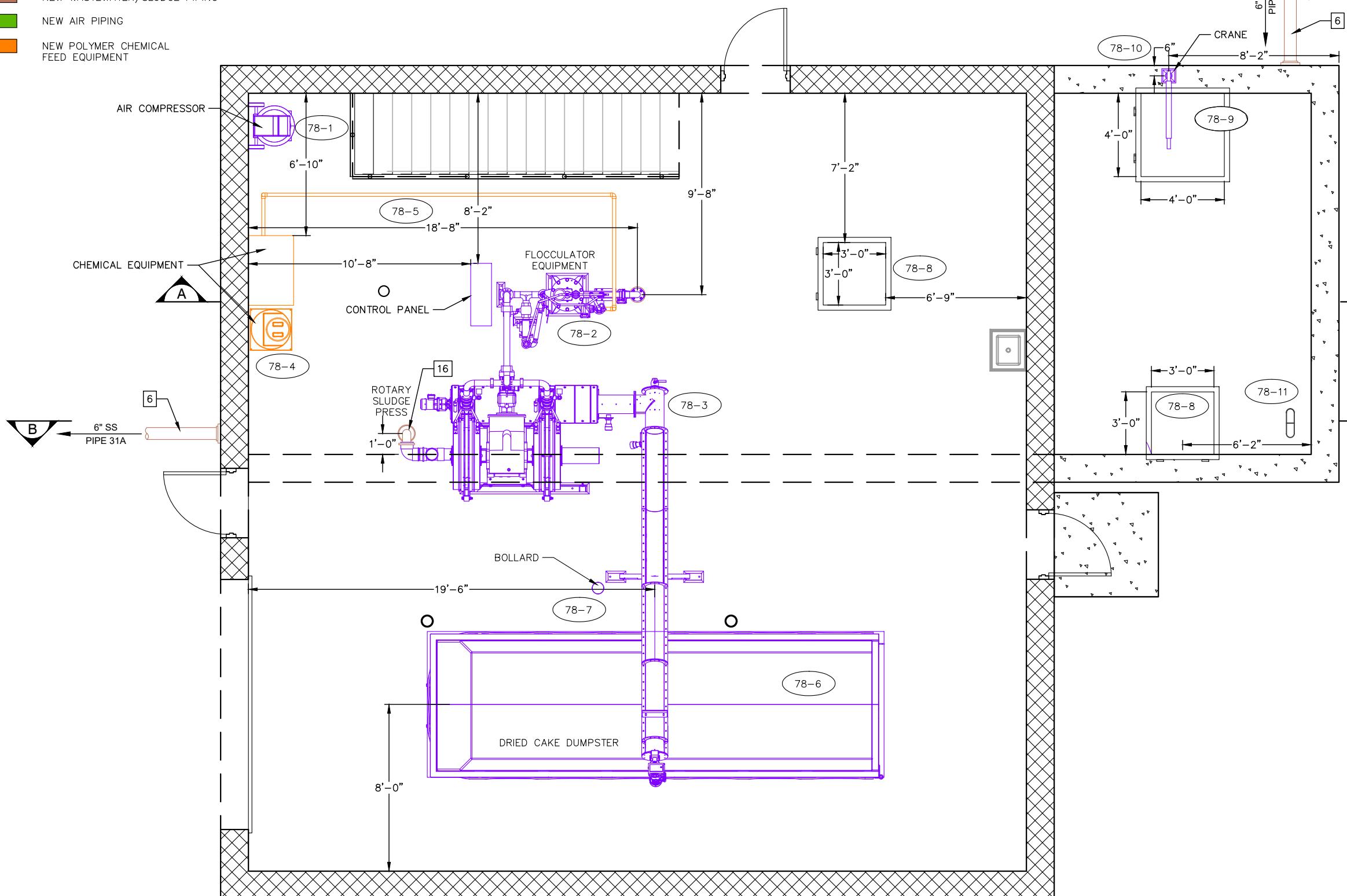
DATE:	1.8.26
REV DATE:	----
REV NUM:	----
RECORD:	----

PROJECT No. 22931
 MANAGER: JBK
 DESIGNER: JRS
 DRAFTER: JNG
 REVIEWER: JSW

D65-301

LEGEND

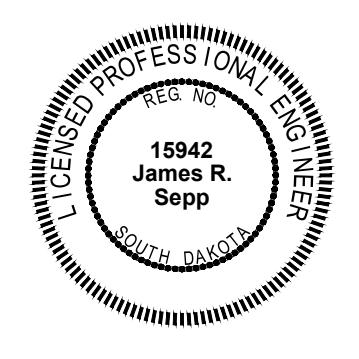
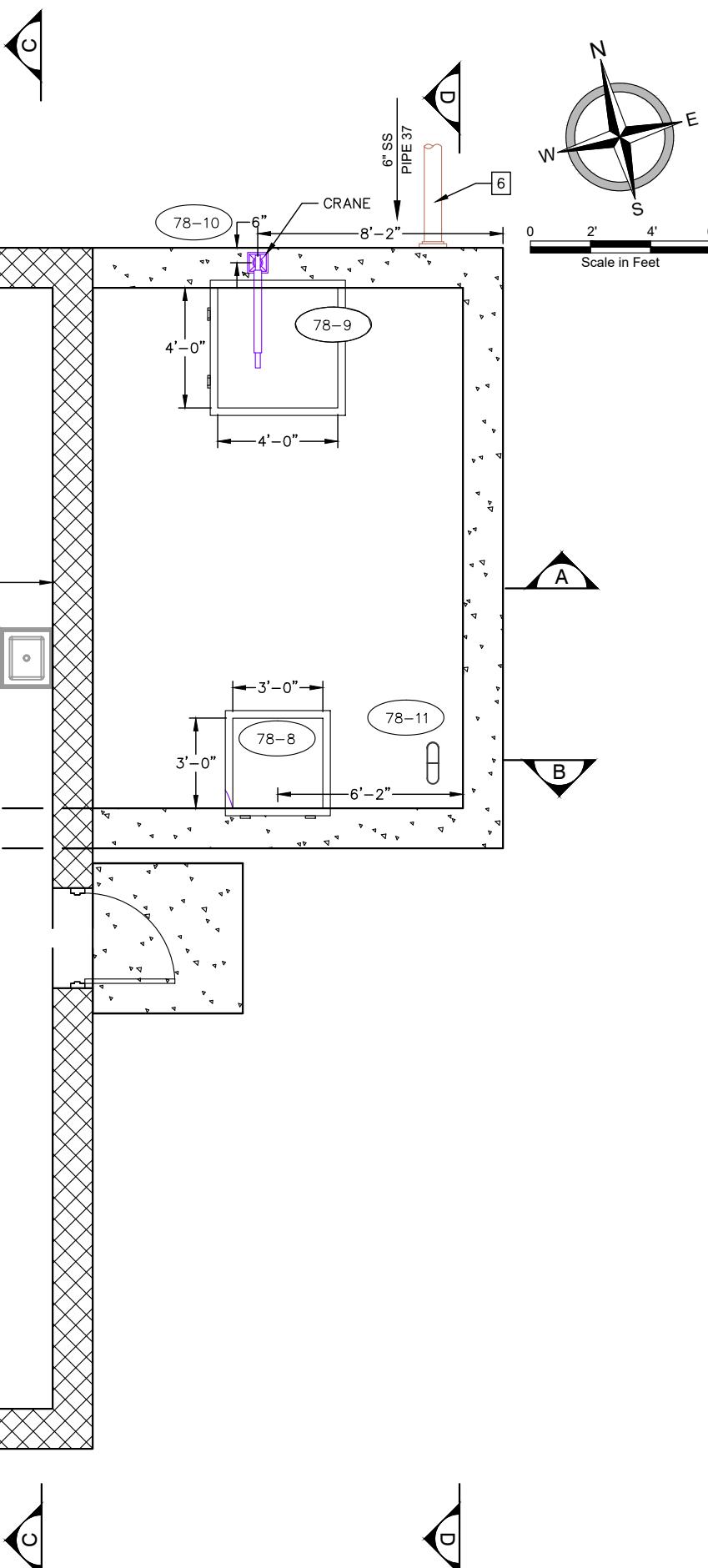
- NEW BUILDING
- NEW EQUIPMENT
- NEW WASTEWATER/SLUDGE PIPING
- NEW AIR PIPING
- NEW POLYMER CHEMICAL FEED EQUIPMENT



1

D78-101

BIOSOLIDS DEWATERING BUILDING - UPPER LEVEL PLAN VIEW
FLOOR ELEV. 1632.50



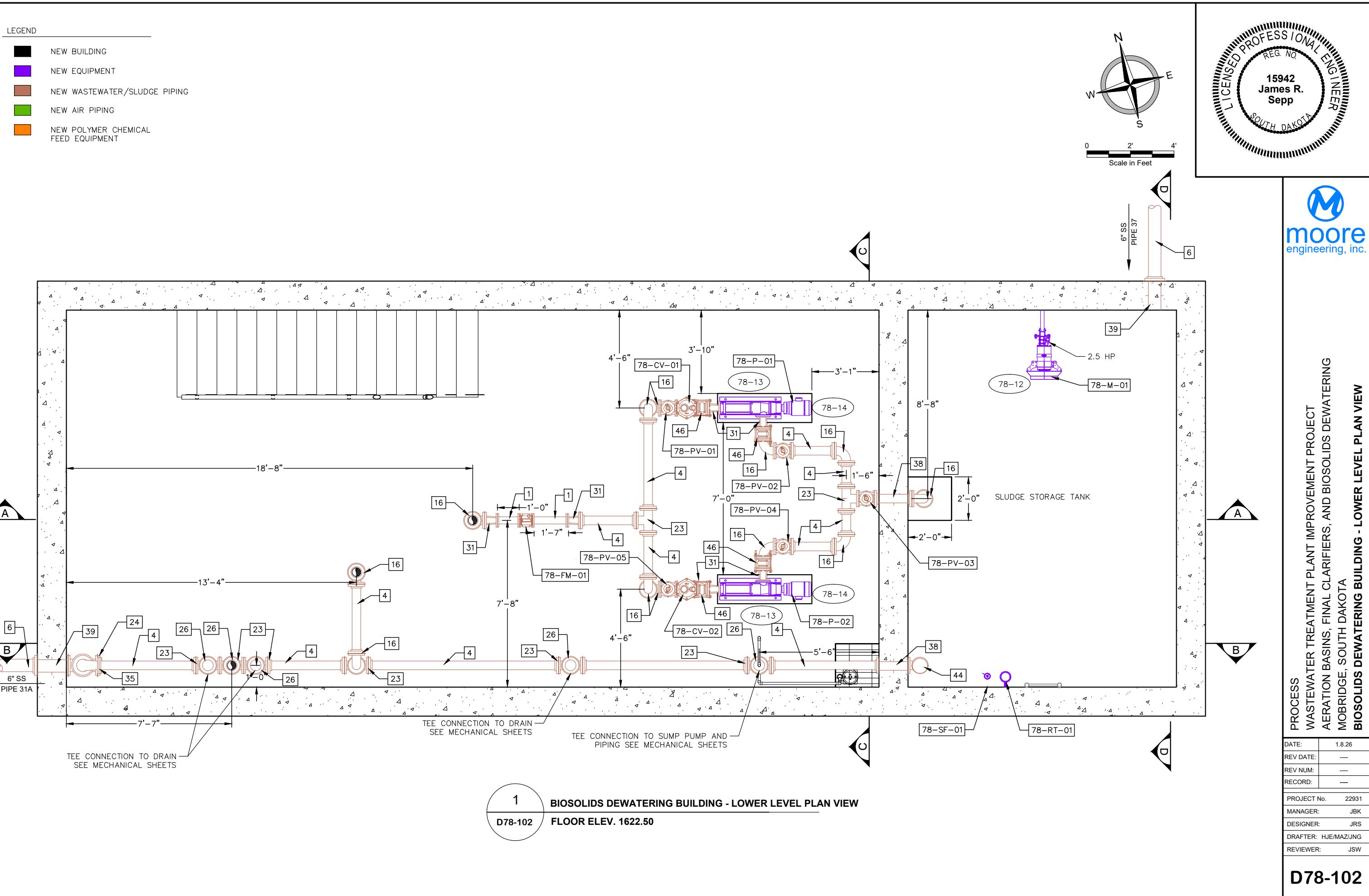
M
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engineering, inc.

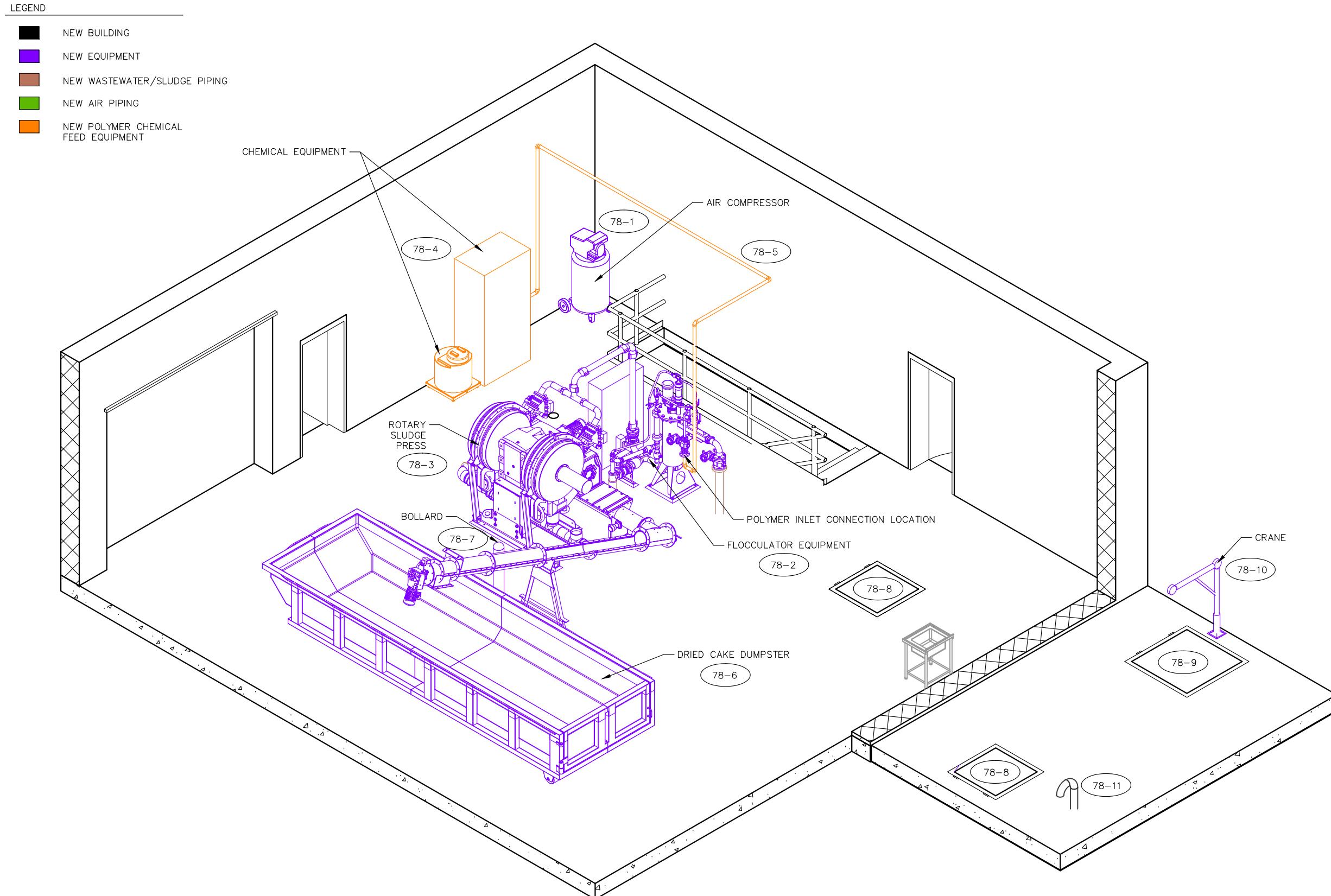
PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---

PROJECT No. 22931
MANAGER: JBK
DESIGNER: JRS
DRAFTER: HJE/MAZ/JNG
REVIEWER: JSW

D78-101



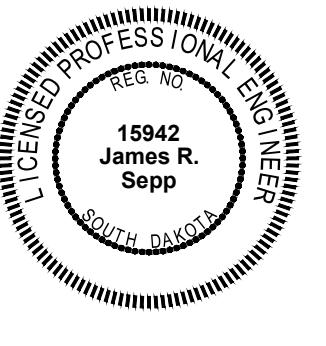


ISO

D78-301

BIOSOLIDS DEWATERING BUILDING - UPPER LEVEL ISO VIEW

3/16" = 1'-0"



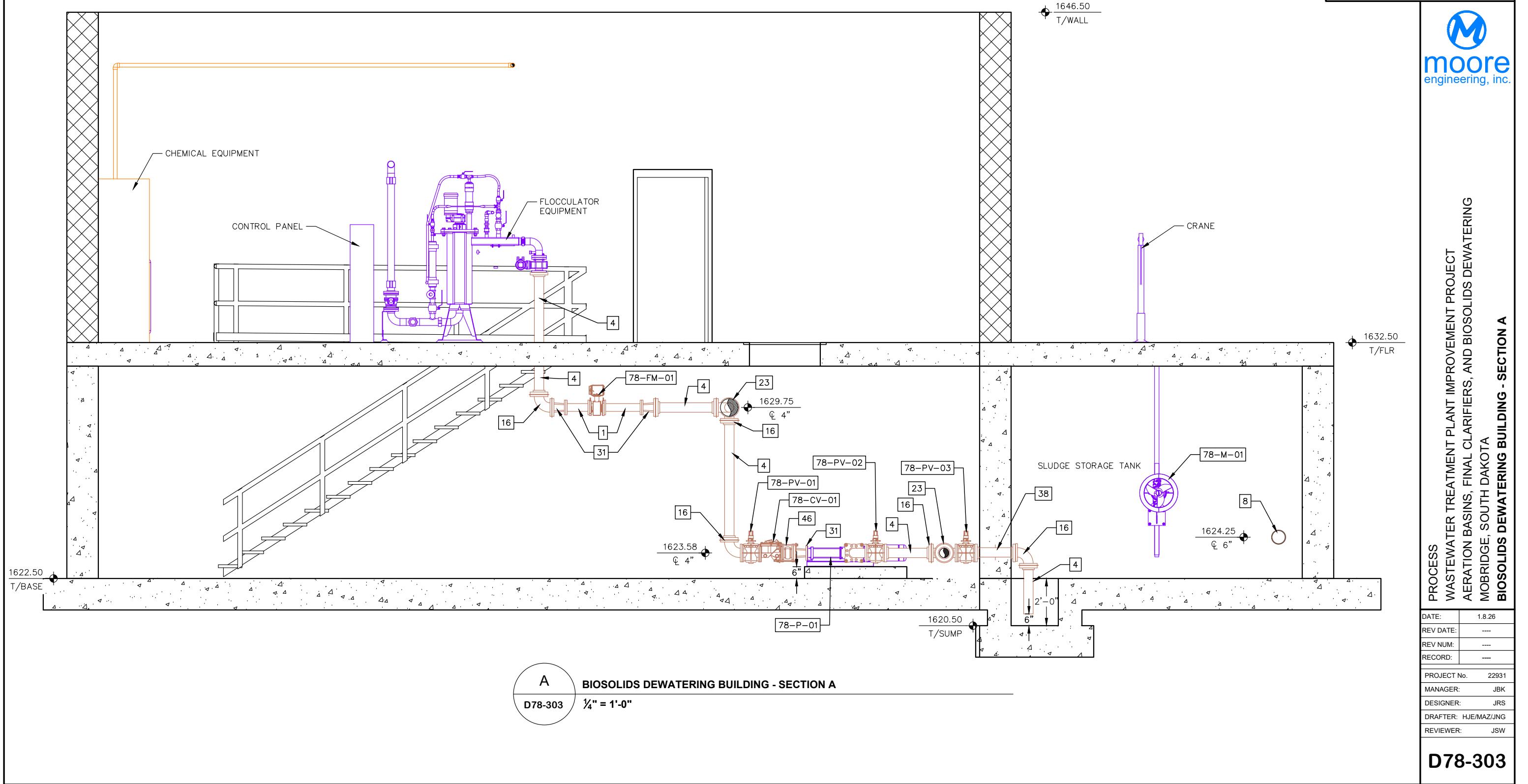
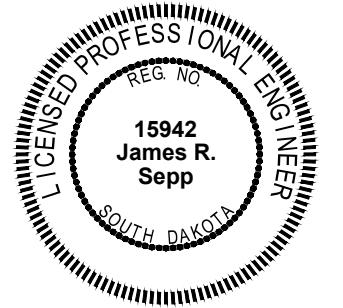
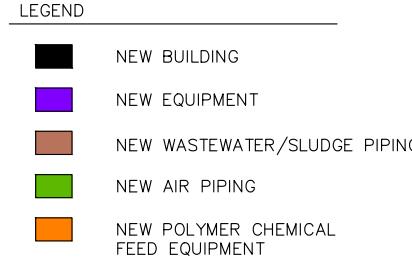
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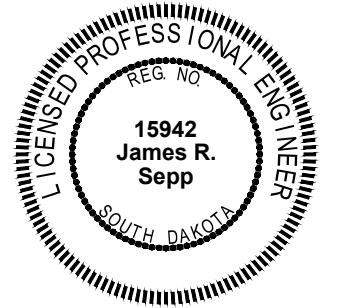
PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---

PROJECT No. 22931
MANAGER: JBK
DESIGNER: JRS
DRAFTER: HJE/MAZ/JNG
REVIEWER: JSW

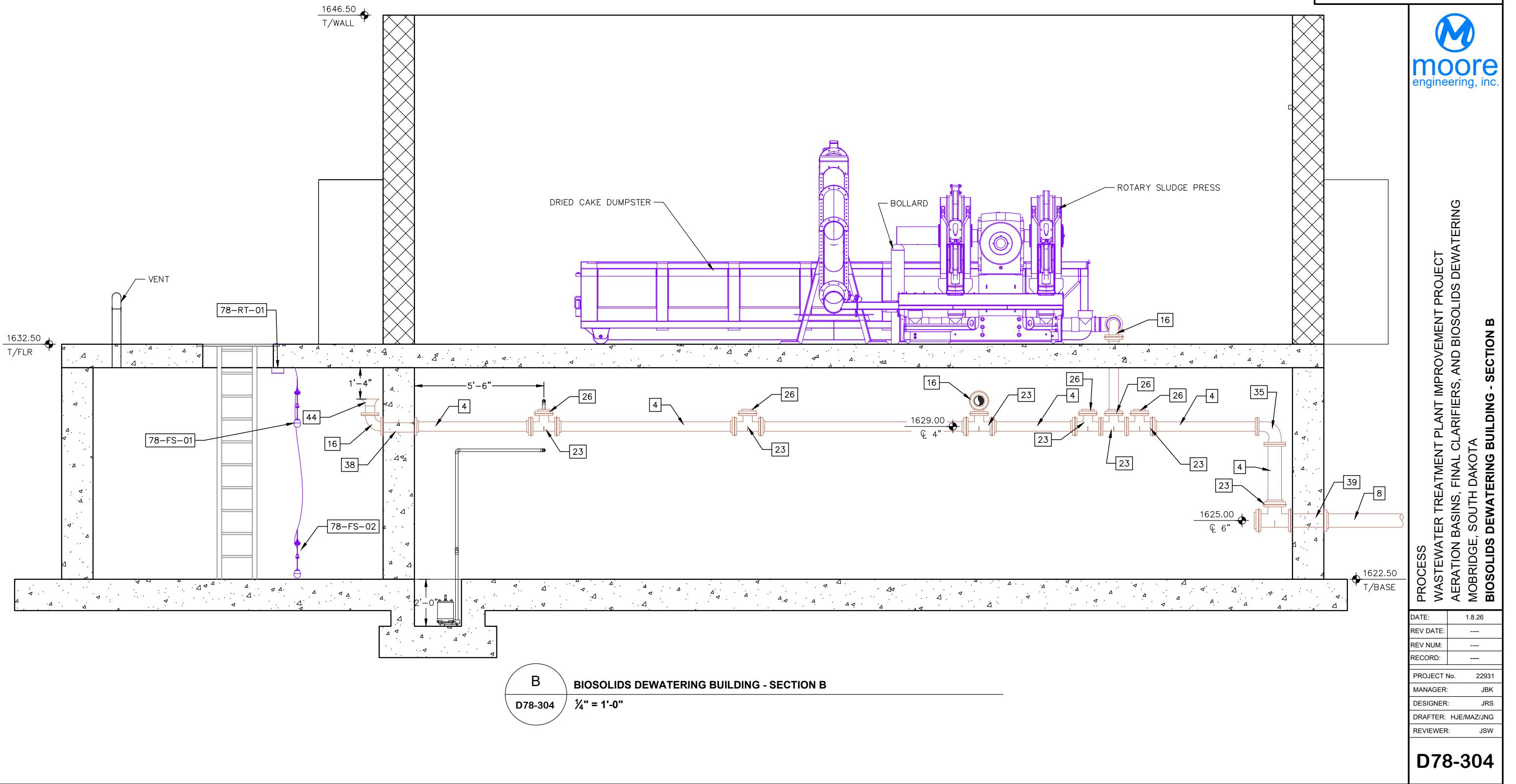
D78-301





LEGEND

- NEW BUILDING
- NEW EQUIPMENT
- NEW WASTEWATER/SLUDGE PIPING
- NEW AIR PIPING
- NEW POLYMER CHEMICAL FEED EQUIPMENT



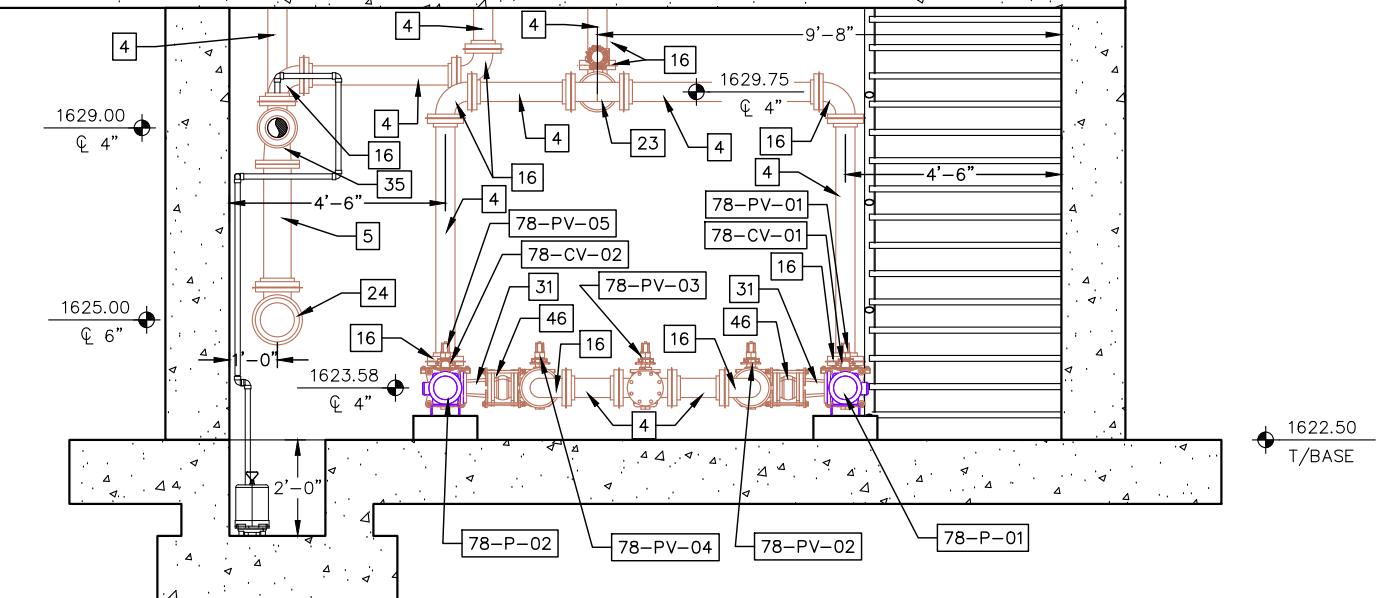
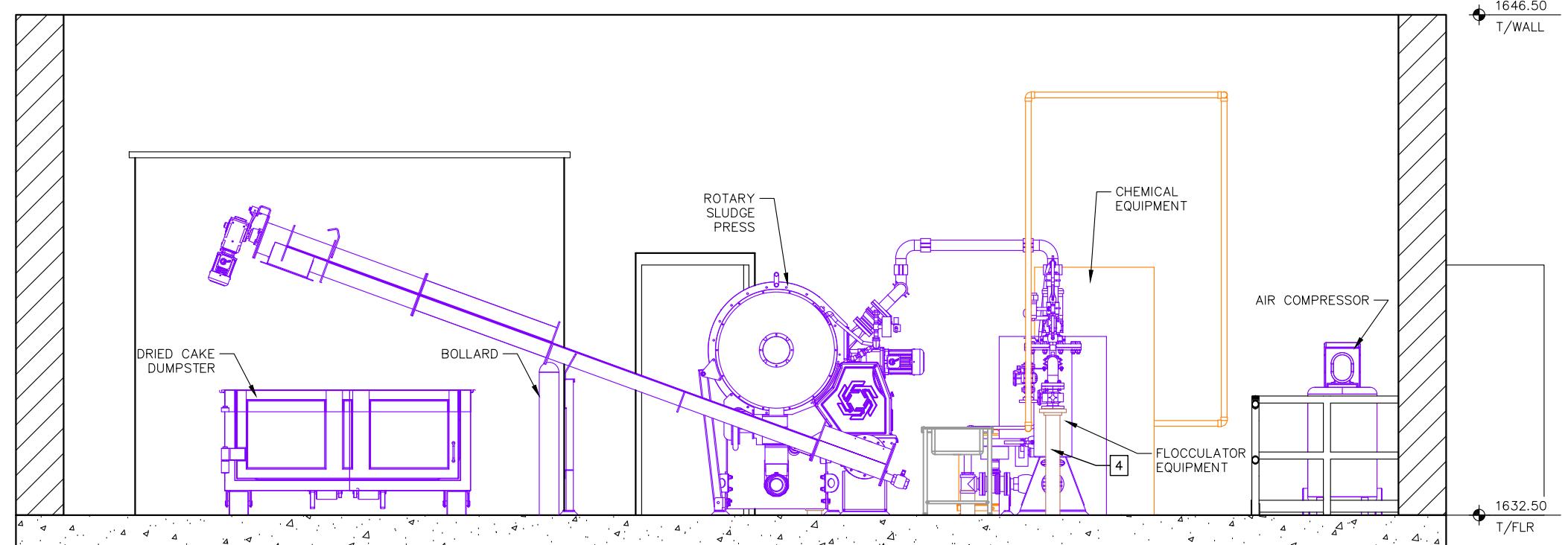
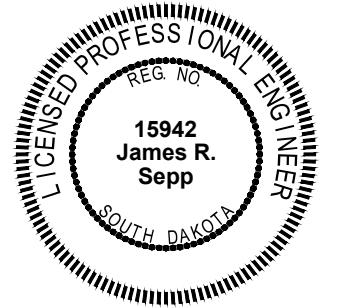
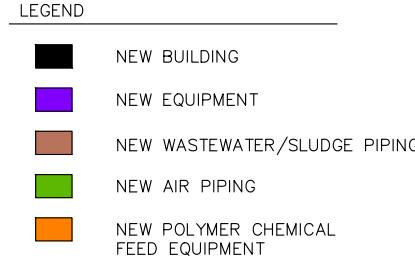
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

BIOSOLIDS DEWATERING BUILDING - SECTION B

PROCESS

PROCESS	WASTEWATER
AERATION	MOBRIDGE
ATE:	1.8.26
EV DATE:	---
EV NUM:	---
ECORD:	---
PROJECT No. 22931	
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG

D78-304



C
D78-305

BIOSOLIDS DEWATERING BUILDING - SECTION C

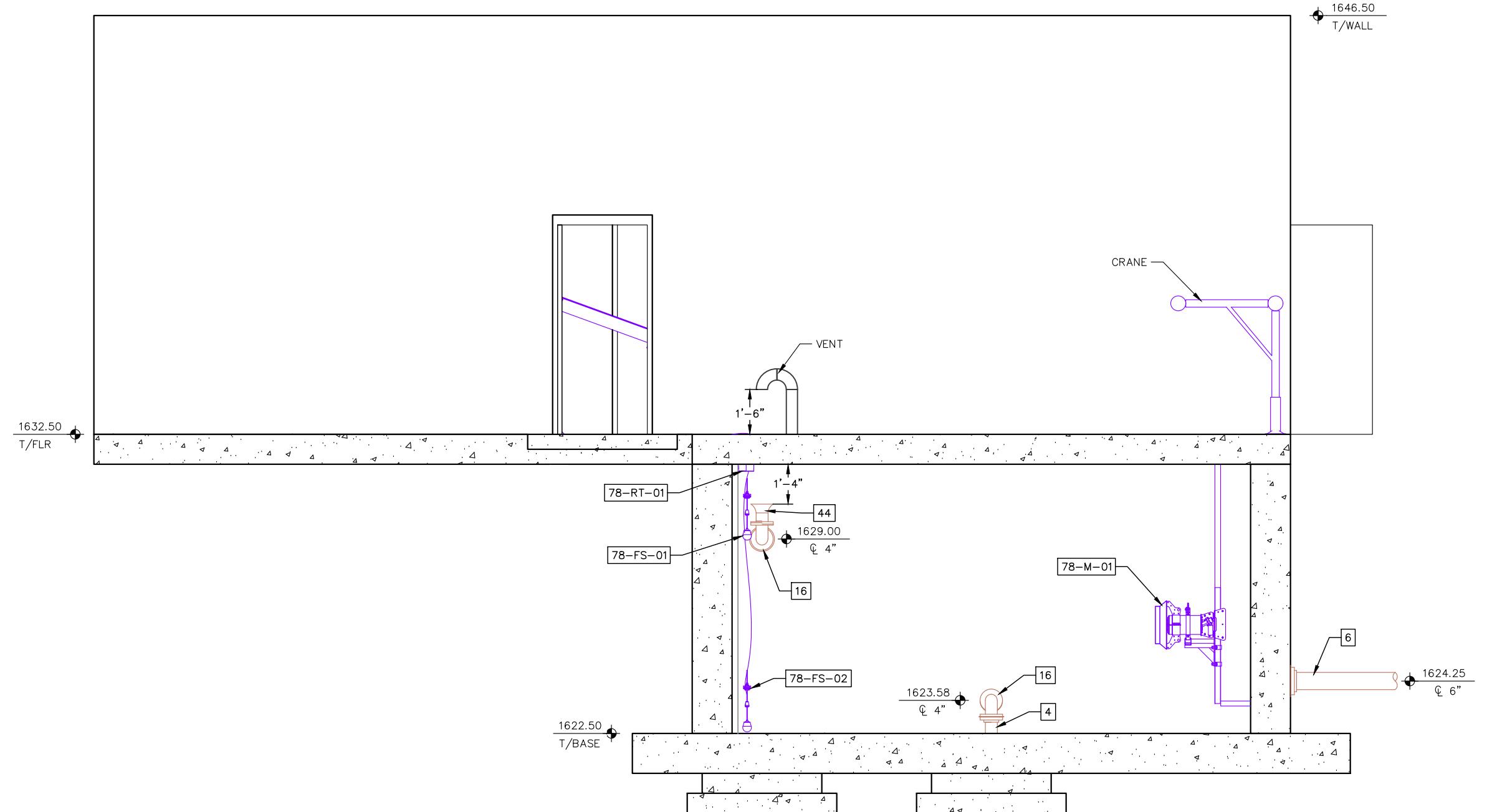
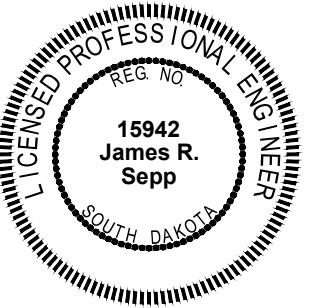
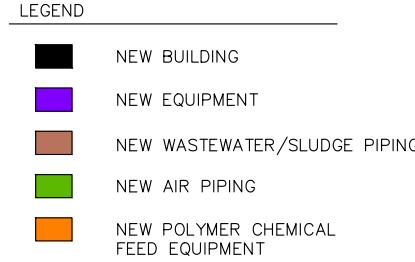
1/4" = 1'-0"

PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - SECTION C

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---

PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

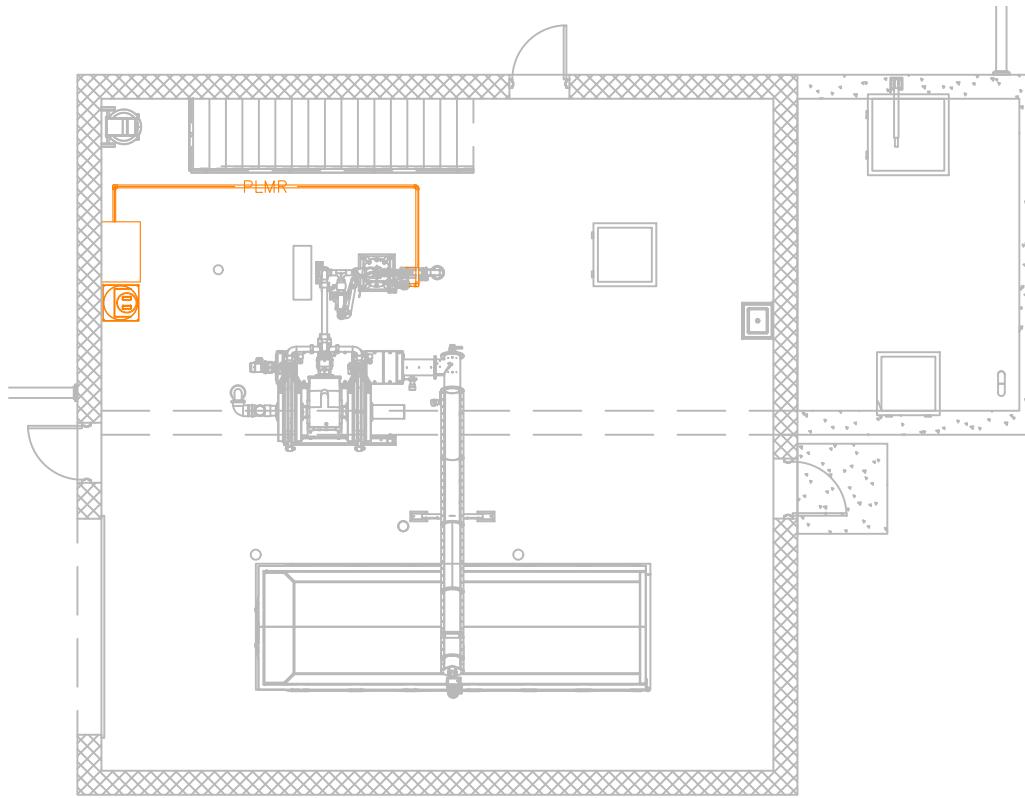
D78-305



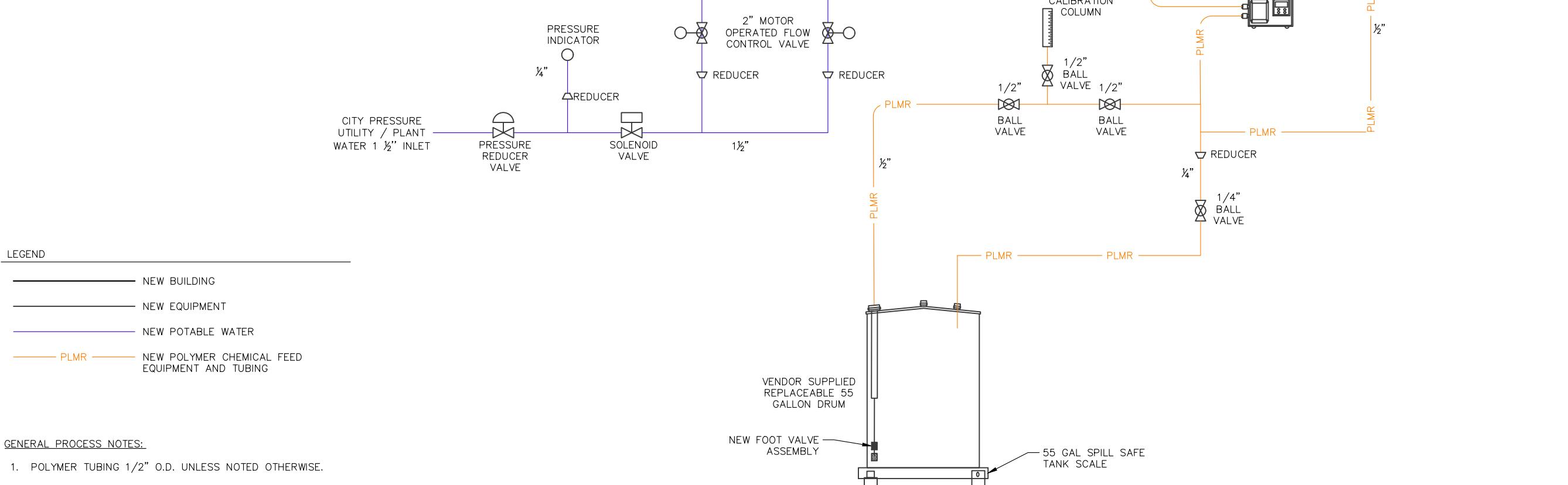
PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA

DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

D78-306

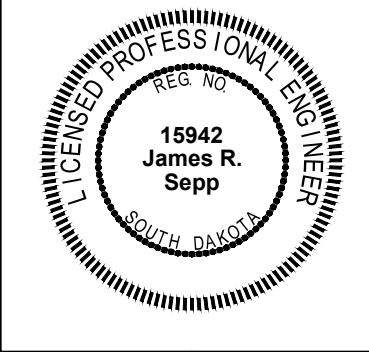


STR 78 - PLAN VIEW



CHEMICAL FEED SCHEMATIC - POLYMER

NO SCALE



PROCESS
WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT
AERATION BASINS, FINAL CLARIFIERS, AND BIOSOLIDS DEWATERING
MOBRIDGE, SOUTH DAKOTA
BIOSOLIDS DEWATERING BUILDING - CHEMICAL FEED SCHEMATIC

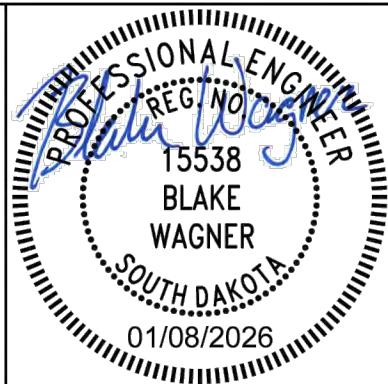
DATE:	1.8.26
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	22931
MANAGER:	JBK
DESIGNER:	JRS
DRAFTER:	HJE/MAZ/JNG
REVIEWER:	JSW

D78-601

HVAC LEGEND	
	POSITIVE PRESSURE AIR DUCT
	NEGATIVE PRESSURE AIR DUCT
	MANUAL VOLUME DAMPER
	ELBOW WITH TURNING VANE
	COMB. SMOKE/FIRE DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	REHEAT COIL
	ACCESS DOOR
	HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)

PIPE LEGEND	
UNDER GROUND STORM DRAIN	
UNDER GROUND WASTE	
UNDER GROUND VENT	
ABOVE GROUND WASTE	
ABOVE GROUND VENT	
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
RECIRC. HOT WATER	
TEMPERED WATER	
RECIRC. TEMPERED WATER	
HOT WATER SUPPLY	
HOT WATER RETURN	
STEAM	
CONDENSATE RETURN	
HEAT PUMP SUPPLY	
HEAT PUMP RETURN	
CONDENSATE DRAIN	
NATURAL GAS	
PROPANE	
RAIN CONDUCTOR	
CHILLED WATER SUPPLY	
CHILLED WATER RETURN	
BALL VALVE	
GATE VALVE	
TEMP. CONTROL VALVE	
STRAINER	
CHECK VALVE	
UNION	
FLANGE	
BALL VALVE INDICATOR	
BUTTERFLY VALVE	
SHUTOFF VALVE IN VERTICAL	

STANDARD ABBREVIATIONS	
AD	- ACCESS DOOR
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
ATC	- AUTOMATIC TEMPERATURE CONTROLS
BDD	- BACK DRAFT DAMPER
BFG	- BELOW FINISHED GRADE
BFF	- BELOW FINISHED FLOOR
CA	- COMBUSTION AIR
CO	- CLEAN OUT
CW	- COLD WATER
EC	- ELECTRICAL CONTRACTOR
FA	- FRESH AIR
FCO	- FLOOR CLEAN OUT
FD	- FLOOR DRAIN
FDR	- FIRE DAMPER
GC	- GENERAL CONTRACTOR
HW	- HOT WATER
MC	- MECHANICAL CONTRACTOR
OBD	- OPPOSED BLADE DAMPER
PRV	- POWER ROOF VENTILATOR
RA	- RETURN AIR
RD	- ROOF DRAIN
RHW	- RECIRCULATING HOT WATER
SA	- SUPPLY AIR
SFD	- SMOKE/FIRE DAMPER
VD	- VOLUME DAMPER
VT	- VENT
VTR	- VENT THRU ROOF
W	- WASTE
WCO	- WALL CLEAN OUT
WH	- WALL HYDRANT

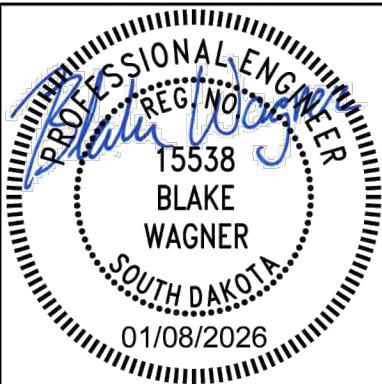
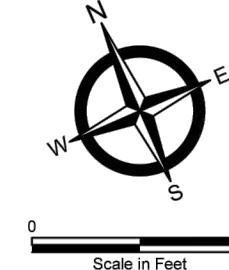
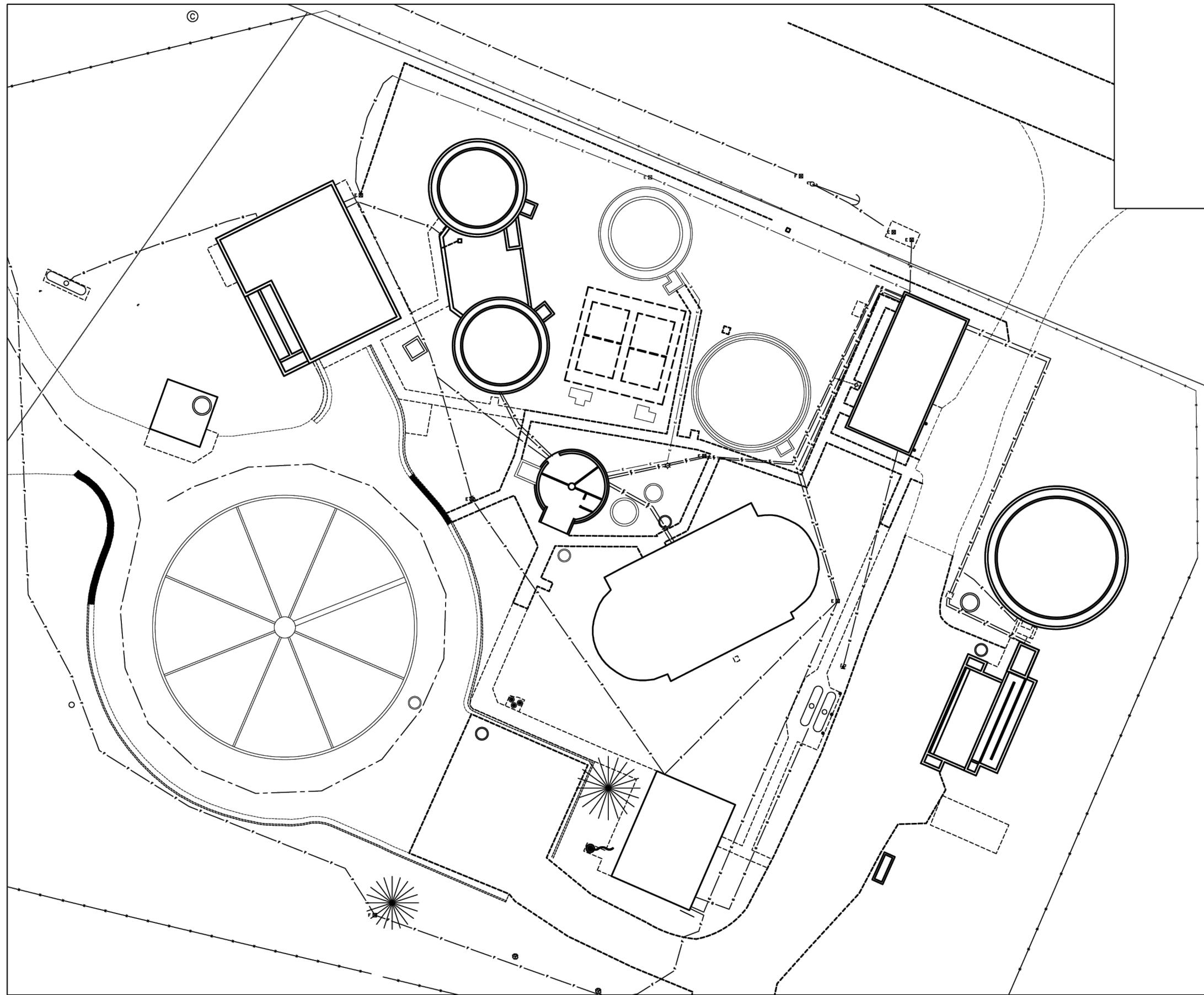


moore
engineering, inc.

MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA
STRUCTURE 78 - MECHANICAL SYMBOL LEGEND

DATE:	1/08/2026
REV DATE:	---
REV NUM.:	---
RECORD:	---
PROJECT No.	25547
MANAGER:	BAW
DESIGNER:	MJF
DRAFTER:	MJF
REVIEWER:	BAW

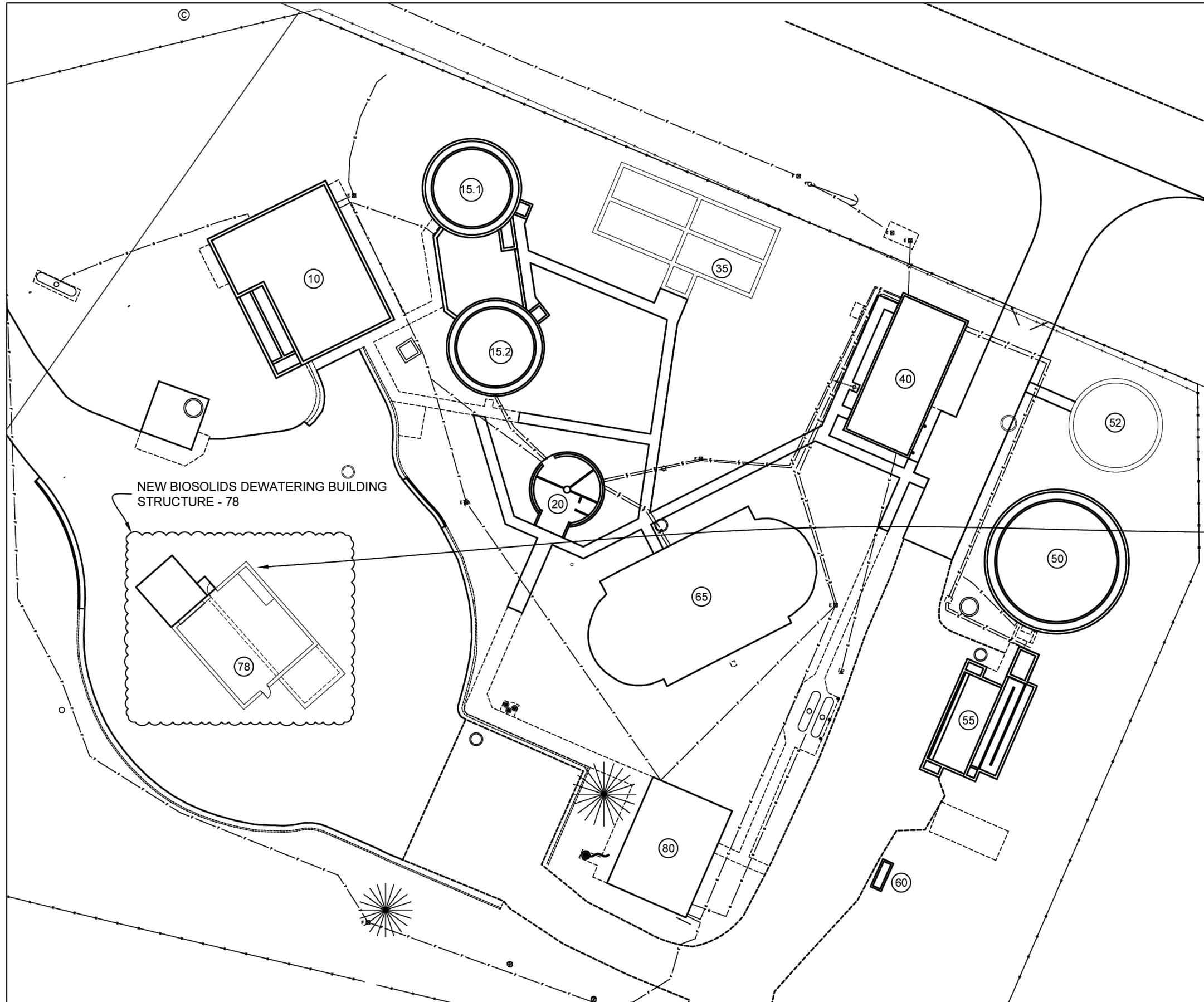
M78-100



MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA
STRUCTURE 78 - EXISTING SITE PLAN

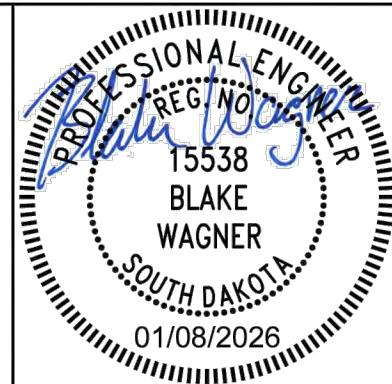
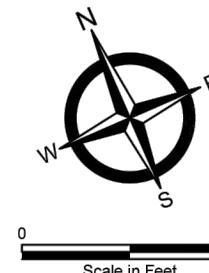
DATE:	1/08/2026
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	25547
MANAGER:	BAW
DESIGNER:	MJF
DRAFTER:	MJF
REVIEWER:	BAW

M78-101



REVISED SITE PLAN

1" = 40'-0"



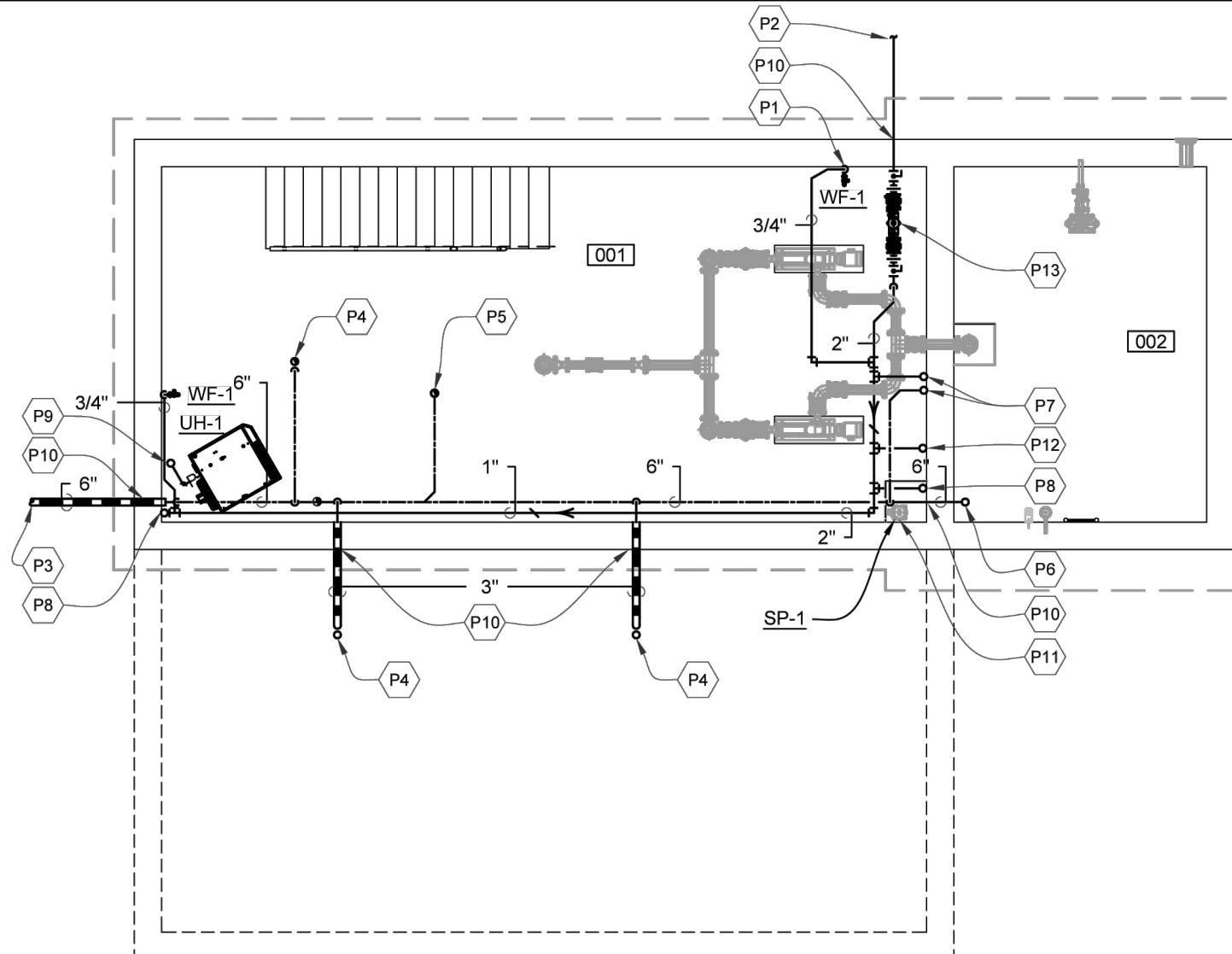
LOCATION OF PROPANE SERVICE INTO BUILDING. PROPANE TANK, REGULATOR AND PIPING UP TO THE BUILDING ARE BY THE OWNERS PROPANE SUPPLIER. SEE THE PROPANE PIPING SCHEMATIC FOR ADDITIONAL INFORMATION.

WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA

STRUCTURE 78 - REVISED SITE PLAN

DATE:	1/08/2026
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	25547
MANAGER:	BAW
DESIGNER:	MJF
DRAFTER:	MJF
REVIEWER:	RAW

M78-102



LOWER LEVEL BUILDING PLUMBING PLAN

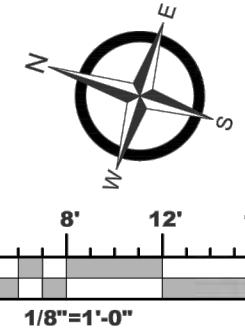
1/8"=1'-0"

GENERAL NOTES

1. THIS PROJECT WILL NEED TO MEET THE REQUIREMENT OF THE AMERICAN IRON AND STEEL PROVISIONS OF P.L. 113-76 CONSOLIDATED APPROPRIATIONS ACT, 2014 (AIS) FOR ALL DUCTWORK, PIPING AND MISCELLANEOUS MATERIALS. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO PROVIDE A BASIS OF DESIGN. THE CONTRACTOR SHALL PROVIDE AIS COMPLIANT MATERIALS. IN THE EVENT THE CONTRACTOR CANNOT PROVIDE SUCH, THE CONTRACTOR IS TO FILL OUT AN EXEMPTION FORM AS REQUIRED BY AIS.
2. PROVIDE A STEEL SLEEVE A MINIMUM OF 1" AFF IN THE CONCRETE FLOOR AS REQUIRED FOR ANY PIPE/DUCT PENETRATION, SLEEVE SHALL BE LARGE ENOUGH TO ACCEPT THE PIPE/DUCT INSULATION IF INSULATION IS REQUIRED. THE SLEEVE IS TO AID IN REDUCING ANY WATER LEAKING THRU TO THE FLOOR BELOW. SEAL THE PERIMETER OF THE SLEEVE WATER TIGHT.

ROOM SCHEDULE

#	NAME	#	NAME
001	PUMP ROOM	101	DEWATERING ROOM
002	STORAGE TANK	N/A	NOT USED



KEYNOTES

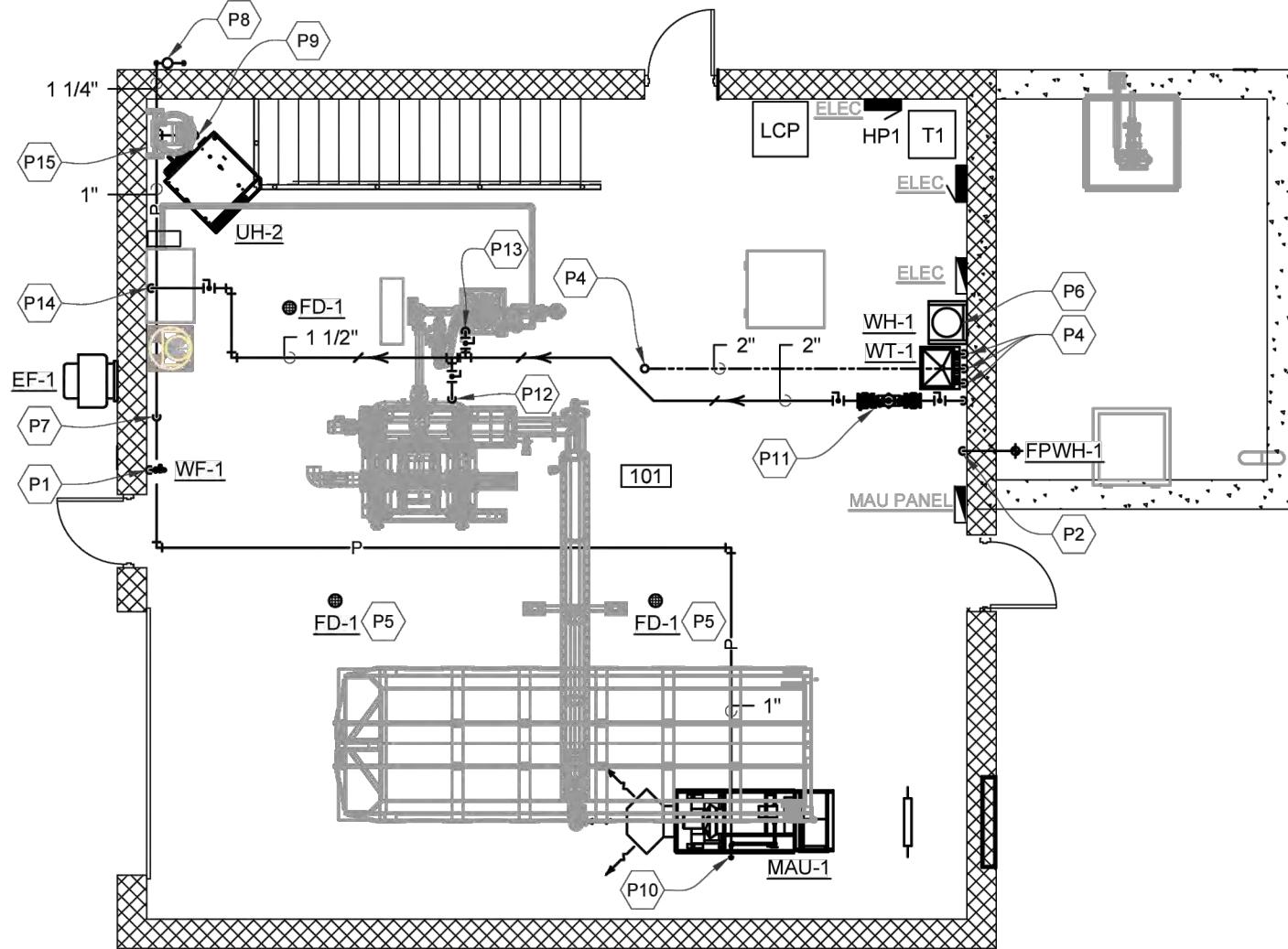
- (P1) PROVIDE A "COLD" WATER FAUCET WITH GARDEN HOSE CONNECTION AND VACUUM BREAKER NEAR THIS LOCATION. ROUTE PIPING EXPOSED ON THE WALL AND DOWN TO THE WALL FAUCET.
- (P2) 2" WATER SERVICE BROUGHT INTO THE BUILDING BY THE M.C. CONNECT INTO THE WATER SERVICE 5'-0" OUTSIDE THE BUILDING AND COORDINATE WITH SITE CONTRACTOR FOR CONNECTION LOCATION AND ADJUST AND MAKE THE FINAL CONNECTION AS REQUIRED.
- (P3) 6" WASTE SERVICE BROUGHT INTO THE BUILDING BY THE M.C. CONNECT INTO THE SANITARY SEWER SERVICE 5'-0" OUTSIDE THE BUILDING AND COORDINATE WITH SITE CONTRACTOR FOR CONNECTION LOCATION AND ADJUST AND MAKE THE FINAL CONNECTION AS REQUIRED.
- (P4) CONNECT 3" W WITH P-TRAP UP TO THE 2" FLOOR DRAIN ON THE FLOOR ABOVE.
- (P5) 4" UP THRU THE FLOOR TO THE DE-WATERING EQUIPMENT COORDINATE THE EXACT LOCATION AND CONNECTION SIZE WITH THE ACTUAL INSTALLED CONDITIONS AND EQUIPMENT.
- (P6) 6" WASTE PIPING FOR TANK OVERFLOW COORDINATE THE EXACT ELEVATION WITH THE PROCESS CONTRACTOR.
- (P7) 3/4" CW, 2" WASTE UP TO THE WASH TUB ABOVE.
- (P8) 3/4" CW TO THE WALL FAUCET ABOVE.
- (P9) 3/4" PROPANE PIPING UP TO THE FLOOR ABOVE AND TO THE CONNECTION ON THE UNIT HEATER.
- (P10) PROVIDE A PROPERLY SIZED SLEEVE AND ASSOCIATED LINK SEAL AT THE PIPING PENETRATION IN THE CONCRETE BELOW GRADE WALL TO ENSURE A WATERTIGHT SEAL.
- (P11) SUMP PUMP SP-1 BY THE M.C., INSTALL IN THE FORMED CONCRETE SUMP (SUMP BY OTHERS). PUMP AND PIPING BY THE M.C. SEE DETAIL FOR ADDITIONAL INFO.
- (P12) 2" CW WATER UP TO SERVE THE WASTE WATER PROCESS EQUIPMENT.
- (P13) PROVIDE 2" REDUCED PRINCIPLE BACK FLOW PREVENTOR NEAR THIS LOCATION INSTALL PER LOCAL CODE. ROUTE THE DRAIN TO THE SUMP.

MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
STRUCTURE 78 - LOWER LEVEL PLUMBING PLAN
MOBRIIDGE, SOUTH DAKOTA

DATE: 1/08/2026
REV DATE: ---
REV NUM: ---
RECORD: ---
PROJECT No. 25547
MANAGER: BAW
DESIGNER: MJF
DRAFTER: MJF
REVIEWER: BAW

M78-200





UPPER LEVEL PLUMBING PLAN

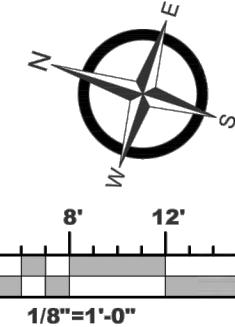
1/8"=1'-0"

GENERAL NOTES

1. THIS PROJECT WILL NEED TO MEET THE REQUIREMENT OF THE AMERICAN IRON AND STEEL PROVISIONS OF P.L. 113-76 CONSOLIDATED APPROPRIATIONS ACT, 2014 (AIS) FOR ALL DUCTWORK, PIPING AND MISCELLANEOUS MATERIALS. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO PROVIDE A BASIS OF DESIGN. THE CONTRACTOR SHALL PROVIDE AIS COMPLIANT MATERIALS. IN THE EVENT THE CONTRACTOR CANNOT PROVIDE SUCH, THE CONTRACTOR IS TO FILL OUT AN EXEMPTION FORM AS REQUIRED BY AIS.
2. PROVIDE A STEEL SLEEVE A MINIMUM OF 1" AFF IN THE CONCRETE FLOOR AS REQUIRED FOR ANY PIPE/DUCT PENETRATION, SLEEVE SHALL BE LARGE ENOUGH TO ACCEPT THE PIPE/DUCT INSULATION IF INSULATION IS REQUIRED. THE SLEEVE IS TO AID IN REDUCING ANY WATER LEAKING THRU TO THE FLOOR BELOW. SEAL THE PERIMETER OF THE SLEEVE WATER TIGHT.

ROOM SCHEDULE

#	NAME	#	NAME
001	PUMP ROOM	101	DEWATERING ROOM
002	STORAGE TANK	N/A	NOT USED



KEYNOTES

- (P1) PROVIDE A "COLD" WATER FAUCET WITH GARDEN HOSE CONNECTION NEAR THIS LOCATION. ROUTE PIPING EXPOSED ON THE WALL AND DOWN THRU THE FLOOR TO THE LOWER LEVEL.
- (P2) 3/4" CW ROUTE PIPING EXPOSED ON THE WALL AND DOWN THRU THE FLOOR TO THE LOWER LEVEL, AND UP TO THE FREEZE PROOF OUTDOOR WALL HYDRANT. MOUNT THE HYDRANT AT 2'-0" AFG.
- (P3) 4" VENT UP THRU THE ROOF, SEE DETAIL FOR ADDITIONAL INFORMATION.
- (P4) 3/4" CW ROUTE PIPING EXPOSED ON THE WALL AND DOWN THRU THE FLOOR TO THE LOWER LEVEL. ROUTE 3/4" CW UP AND TEE OFF A 3/4" CW TO THE FAUCET CONNECTION FOR WT-1 AND CONTINUE 3/4" CW UP TO THE CONNECTION ON THE POINT OF USE WATER HEATER HUNG OFF THE WALL. ROUTE 3/4" HW FROM THE WATER HEATER BACK DOWN TO HW CONNECTION ON THE FAUCET.
- (P5) MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE FLOOR DRAIN.
- (P6) INSTALL THE ELECTRIC POINT OF USE TANK WATER HEATER ON A WALL MOUNTED STAND A MINIMUM OF 6' AFF. PROVIDE AND FABRICATE A STEEL STAND AND SUPPORT OFF THE CONCRETE BLOCK WALL, PRIME AND PAINT THE STAND FLAT BLACK. SET THE WATER HEATER IN A GALVANIZED STEEL DRIP PAN AND PROVIDE A DRAIN FROM THE PAN DOWN TO THE FLOOR. ROUTE THE T&P VALVE OUTLET TO THE DRAIN PAN.
- (P7) 3/4" PROPANE PIPING DOWN THRU THE FLOOR TO THE UNIT HEATER IN THE BASEMENT.
- (P8) PROPANE SERVICE BY THE OWNERS PROPANE SUPPLIER. VERIFY THE EXACT LOCATION WITH ACTUAL INSTALLED CONDITIONS. SEE THE PROPANE PIPING SCHEMATIC FOR ADDITIONAL INFORMATION.
- (P9) 3/4" PROPANE TO THE UNIT HEATER CONNECTION.
- (P10) 1" PROPANE TO THE MAKE-UP AIR UNIT CONNECTION.
- (P11) PROVIDE 2" REDUCED PRINCIPLE BACK FLOW PREVENTOR NEAR THIS LOCATION DOWN STREAM OF THE PROCESS EQUIPMENT, INSTALL PER LOCAL CODE. ROUTE THE DRAIN TO THE WASH TUB.
- (P12) ROUTE A 1" WATER CONNECTION TO THE PROCESS EQUIPMENT (ROTARY SLUDGE PRESS), VERIFY THE EXACT CONNECTION LOCATION WITH INSTALLED EQUIPMENT.
- (P13) ROUTE A 1 1/2" WATER CONNECTION TO THE PROCESS EQUIPMENT (FLOCCULATOR), VERIFY THE EXACT CONNECTION LOCATION WITH INSTALLED EQUIPMENT.
- (P14) ROUTE A 1 1/2" WATER CONNECTION TO THE PROCESS EQUIPMENT (CHEMICAL EQUIPMENT), VERIFY THE EXACT CONNECTION LOCATION WITH INSTALLED EQUIPMENT.
- (P15) ROUTE A 3/4" COMPRESSED AIR PIPE FROM THE AIR COMPRESSOR (FURNISHED BY OTHERS) TO THE PROCESS EQUIPMENT (FLOCCULATOR) VERIFY THE EXACT CONNECTION LOCATION WITH INSTALLED EQUIPMENT.

MECHANICAL PLANS

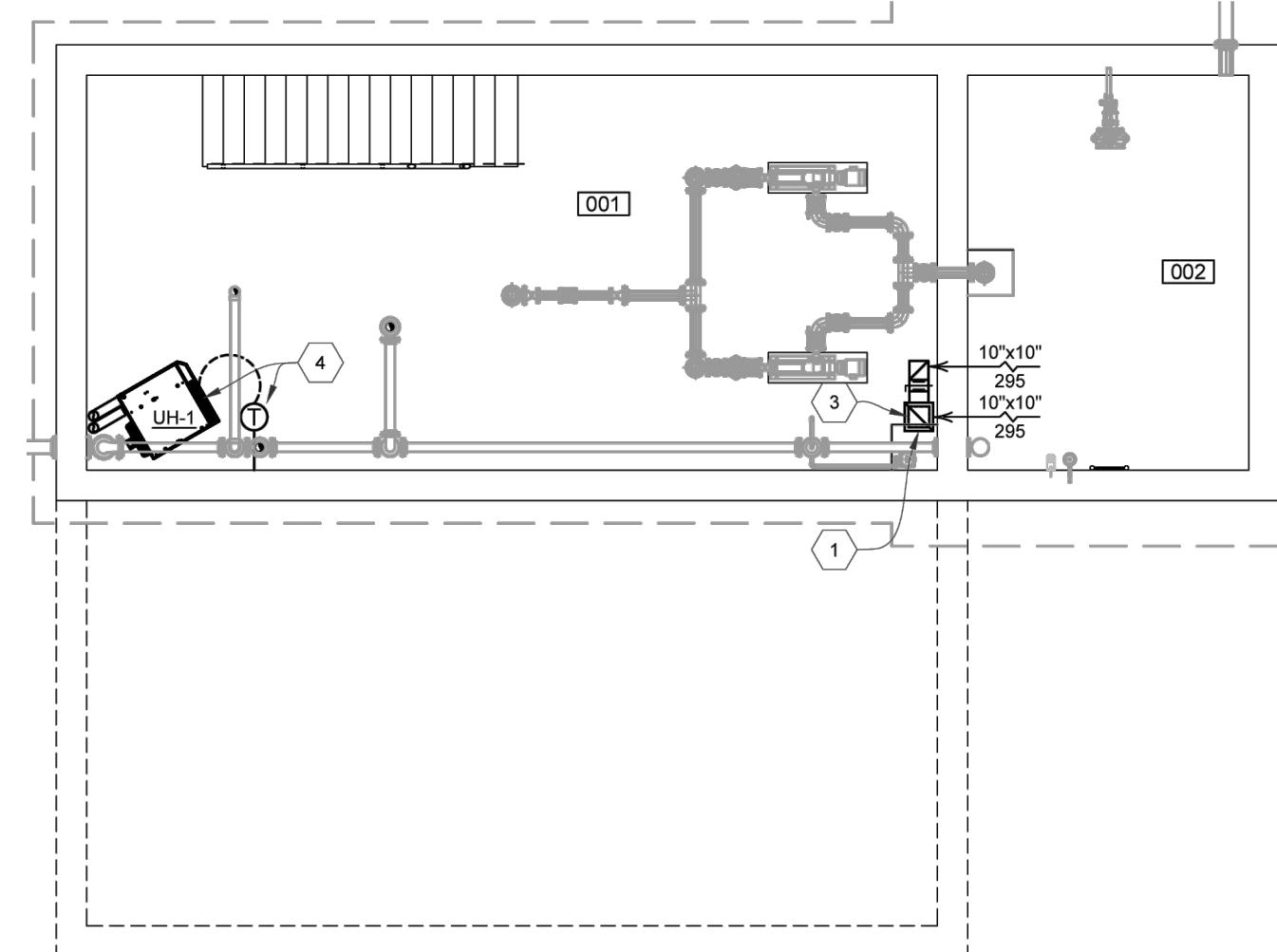
WASTEWATER TREATMENT FACILITY UPGRADES

STRUCTURE 78 - UPPER LEVEL PLUMBING PLAN

DATE:	1/08/2026
REV DATE:	---
REV NUM:	---
RECORD:	---
PROJECT No.	25547
MANAGER:	BAW
DESIGNER:	MJF
DRAFTER:	MJF
REVIEWER:	BAW

M78-201





1
1/8"=1'-0"

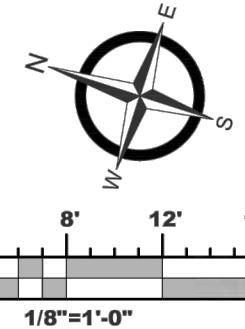
LOWER LEVEL MECHANICAL PLAN

GENERAL NOTES

1. THIS PROJECT WILL NEED TO MEET THE REQUIREMENT OF THE AMERICAN IRON AND STEEL PROVISIONS OF P.L. 113-76 CONSOLIDATED APPROPRIATIONS ACT, 2014 (AIS) FOR ALL DUCTWORK, PIPING AND MISCELLANEOUS MATERIALS. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO PROVIDE A BASIS OF DESIGN. THE CONTRACTOR SHALL PROVIDE AIS COMPLIANT MATERIALS. IN THE EVENT THE CONTRACTOR CANNOT PROVIDE SUCH, THE CONTRACTOR IS TO FILL OUT AN EXEMPTION FORM AS REQUIRED BY AIS.
2. PROVIDE A STEEL SLEEVE A MINIMUM OF 1" AFF IN THE CONCRETE FLOOR AS REQUIRED FOR ANY PIPE/DUCT PENETRATION, SLEEVE SHALL BE LARGE ENOUGH TO ACCEPT THE PIPE/DUCT INSULATION IF INSULATION IS REQUIRED. THE SLEEVE IS TO AID IN REDUCING ANY WATER LEAKING THRU TO THE FLOOR BELOW. SEAL THE PERIMETER OF THE SLEEVE WATER TIGHT.

ROOM SCHEDULE

#	NAME	#	NAME
001	PUMP ROOM	101	DEWATERING ROOM
002	STORAGE TANK	N/A	NOT USED



KEYNOTES

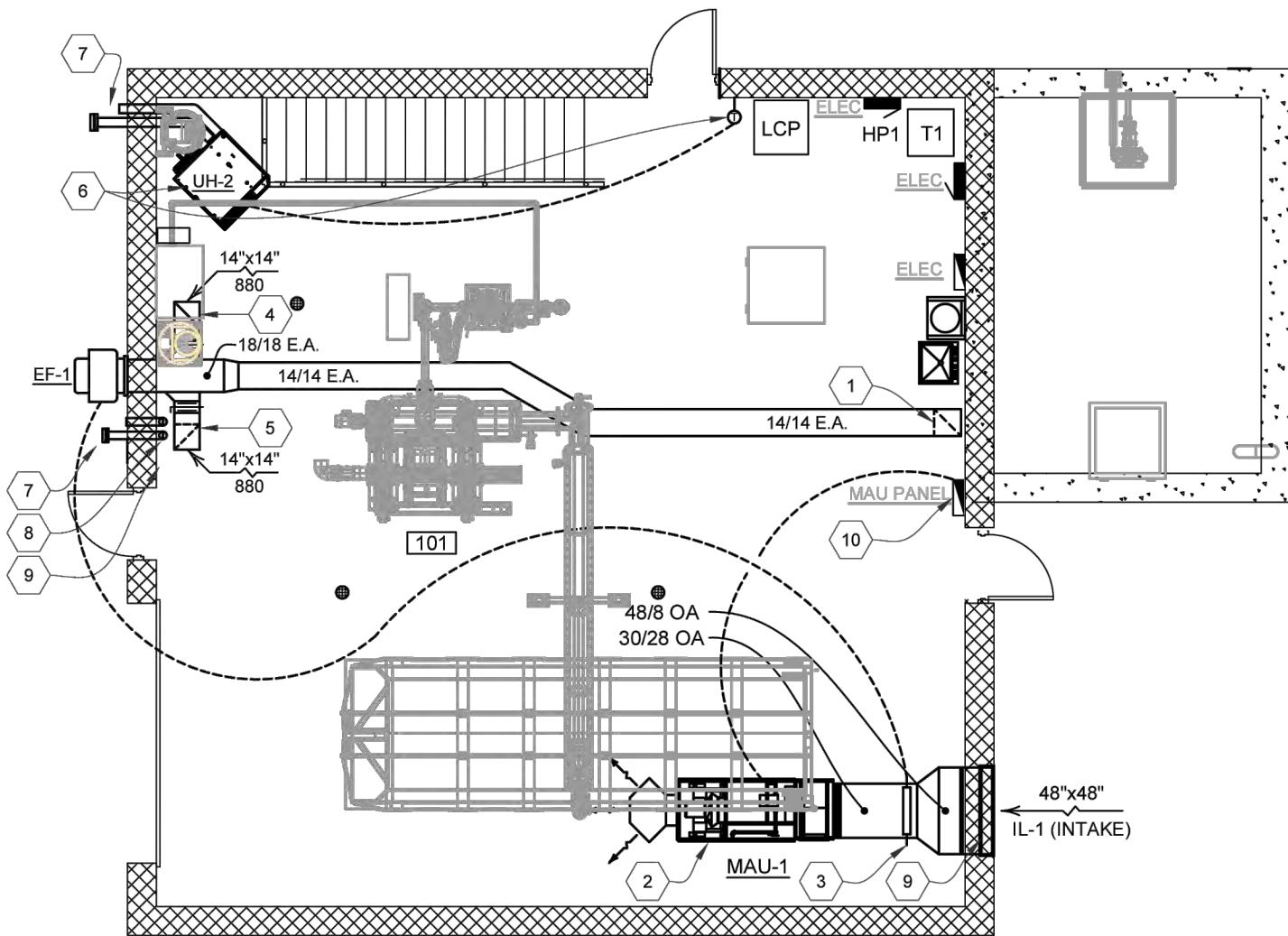
- 1 14/14 E.A. DUCT UP THRU THE FLOOR TO THE UPPER LEVEL. COORDINATE THE DUCT PENETRATION WITH ALL TRADES AND ADJUST ACCORDINGLY. PROTECT THE DUCT BY INSTALLING 1 1/2" x 1 1/2" x 1/8" ANGLE IRON FROM THE FLOOR TO 6'-0" AFF.
- 2 10/10 E.A. DUCT ELBOWED UP TO WITH-IN 6" OF THE FLOOR ABOVE, INSTALL BIRD SCREEN IN OPEN DUCT.
- 3 10/10 E.A. DUCT DOWN TO WITH-IN 12" OF THE FLOOR, INSTALL BIRD SCREEN IN OPEN DUCT. PROTECT THE DUCT BY INSTALLING 1 1/2" x 1 1/2" x 1/8" ANGLE IRON FROM THE FLOOR TO 6'-0" AFF.
- 4 INSTALL GAS FIRED UNIT HEATER NEAR THIS LOCATION COORDINATE ALL FLOOR PENETRATIONS WITH ALL TRADES. SEE DETAIL FOR ADDITIONAL INFORMATION. DIV. 23 TO PROVIDE THERMOSTAT, DIV 26 TO MOUNT AND WIRE THERMOSTAT.



MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
STRUCTURE 78 - LOWER LEVEL MECHANICAL PLAN
MOBRIDGE, SOUTH DAKOTA

DATE: 1/08/2026
REV DATE: ---
REV NUM: ---
RECORD: ---
PROJECT No. 25547
MANAGER: BAW
DESIGNER: MJF
DRAFTER: MJF
REVIEWER: BAW

M78-300



UPPER LEVEL MECHANICAL PLAN

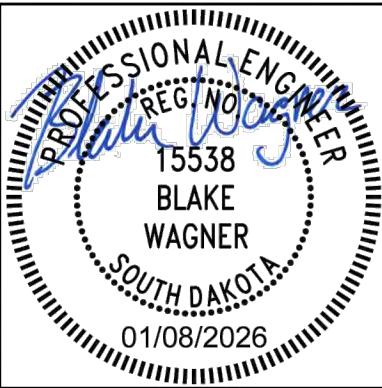
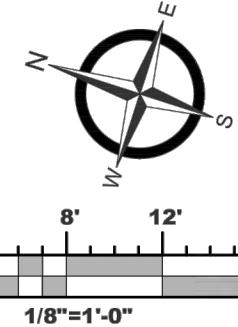
1/8"=1'-0"

GENERAL NOTES

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2. PROVIDE A STEEL SLEEVE A MINIMUM OF 1" AFF IN THE CONCRETE FLOOR AS REQUIRED FOR ANY PIPE/DUCT PENETRATION, SLEEVE SHALL BE LARGE ENOUGH TO ACCEPT THE PIPE/DUCT INSULATION IF INSULATION IS REQUIRED. THE SLEEVE IS TO AID IN REDUCING ANY WATER LEAKING THRU TO THE FLOOR BELOW. SEAL THE PERIMETER OF THE SLEEVE WATER TIGHT.

ROOM SCHEDULE

#	NAME	#	NAME
001	PUMP ROOM	101	DEWATERING ROOM
002	STORAGE TANK	N/A	NOT USED



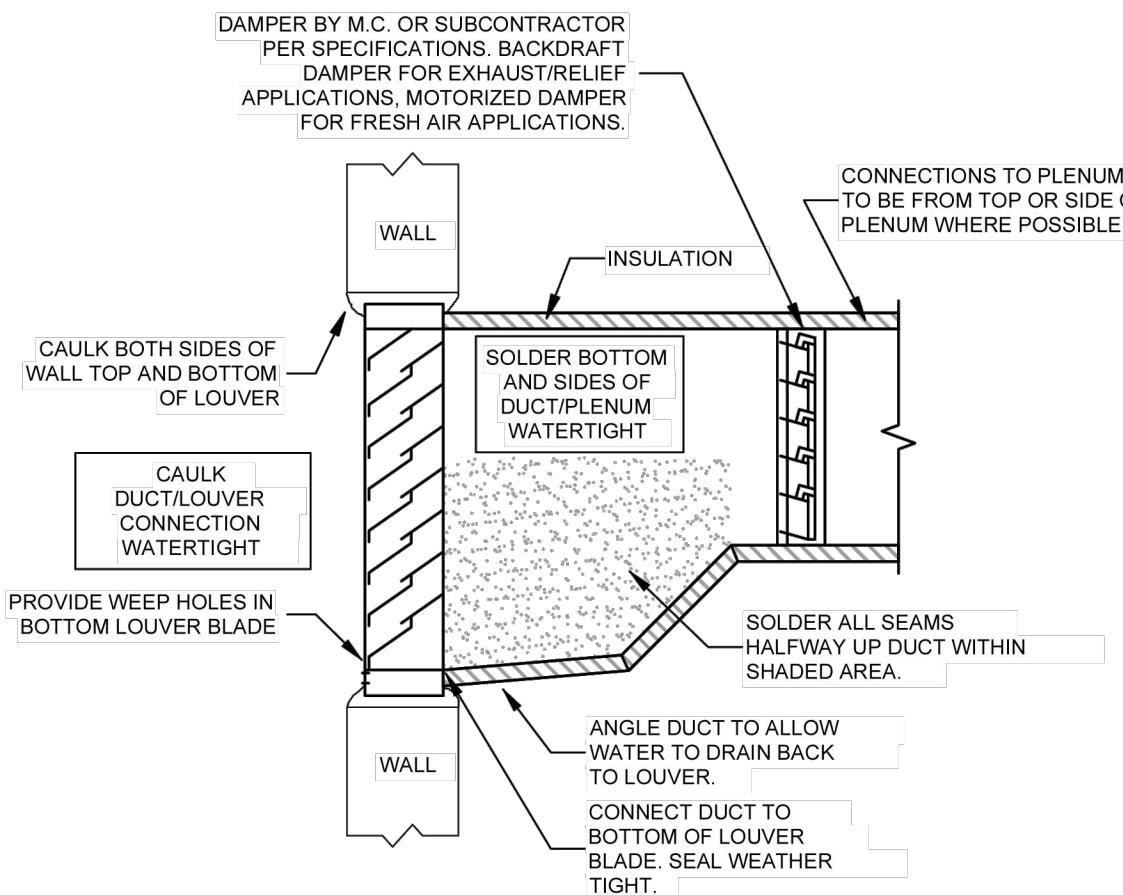
KEYNOTES

- 1 14/14 E.A. DUCT DOWN THRU THE FLOOR TO THE LOWER LEVEL. COORDINATE THE DUCT PENETRATION WITH ALL TRADES AND ADJUST ACCORDINGLY. PROTECT THE DUCT BY INSTALLING 1 1/2" x 1 1/2" x 1/8" ANGLE IRON FROM THE FLOOR TO 6'-0" AFF.
- 2 PROVIDE A MAKE-UP AIR UNIT AS SCHEDULED, INSTALL/COORDINATE THE UNIT HUNG FROM THE STRUCTURE AS HIGH AS POSSIBLE TO AVOID INTERFERENCE WITH THE PORTABLE DUMPSTER AS WELL COORDINATING THE HORIZONTAL LOCATION WITH THE CONVEYOR/AUGER FEEDING THE DE-WATERED CONTAMINANTS TO THE PORTABLE DUMPSTER. ADJUST THE LOCATION OF THE MAU-1 AS REQUIRED.
- 3 MOTORIZED DAMPER BY DIV 23, DAMPER SHALL OPEN UPON ACTIVATION OF THE EXHAUST FAN EF-1. COORDINATE POWER REQUIREMENTS WITH DIV 26.
- 4 14/14 E.A. DUCT ELBOWED UP TO WITH-IN 6" OF THE ROOF DECK, INSTALL BIRD SCREEN IN OPEN DUCT.
- 5 14/14 E.A. DUCT ELBOWED DN TO WITH-IN 12" OF THE FLOOR, INSTALL BIRD SCREEN IN OPEN DUCT. PROTECT THE DUCT BY INSTALLING 1 1/2" x 1 1/2" x 1/8" ANGLE IRON FROM THE FLOOR TO 6'-0" AFF.
- 6 INSTALL GAS FIRED UNIT HEATER NEAR THIS LOCATION COORDINATE ALL WALL PENETRATIONS WITH ALL TRADES. SEE DETAIL FOR ADDITIONAL INFORMATION. DIV. 23 TO PROVIDE THERMOSTAT, DIV 26 TO MOUNT AND WIRE THERMOSTAT.
- 7 INSTALLED SEALED COMBUSTION VENTING PER THE UNIT HEATER MANUFACTURERS INSTALLATION INSTRUCTIONS. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 8 INSTALL VENT AND COMBUSTION AIR DUCT DOWN THRU THE FLOOR TO THE LOWER LEVEL TO SERVE THE GAS FIRED UNIT HEATER. COORDINATE THE DUCT PENETRATION WITH ALL TRADES AND ADJUST ACCORDINGLY. PROTECT THE DUCTING BY INSTALLING A 1 1/2" x 1 1/2" x 1/8" ANGLE IRON FRAME WITH EXPANDED METAL SPANNING THE DISTANCE BETWEEN ANGLE IRON FRAMES SO BOTH DUCT ARE WITH-IN THE CONFINES OF THE PROTECTION, VERIFY THE EXACT SIZE REQUIRED WITH ACTUAL INSTALLED CONDITIONS. WELD EVERYTHING TOGETHER AND PROVIDE FOUR 4" x 4" x 1/4" STEEL FEET AND ANCHOR THE FEET TO THE FLOOR. PROTECTION SHALL EXTEND FROM THE FLOOR TO 6'-0" AFF.
- 9 INSTALL LOUVER AT 10'-0" TO THE CENTER OF THE LOUVER, COORDINATE WITH THE BLOCK COURSES.
- 10 COORDINATE THE INSTALLATION OF THE MAU-1 TOUCH SCREEN CONTROL PANEL WITH THE E.C. TOUCH SCREEN CONTROL PANEL IS FACTORY FURNISHED. COORDINATE THE EXACT LOCATION OF THE PANEL WITH ALL TRADES.

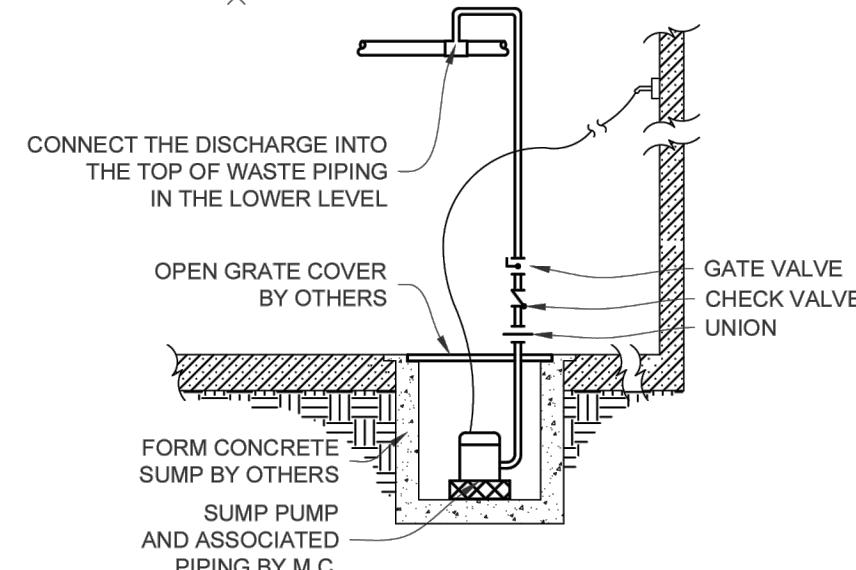
MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
STRUCTURE 78 - UPPER LEVEL MECHANICAL PLAN
MOBRIIDGE, SOUTH DAKOTA

DATE: 1/08/2026
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PROJECT No. 25547
MANAGER: BAW
DESIGNER: MJF
DRAFTER: MJF
REVIEWER: BAW

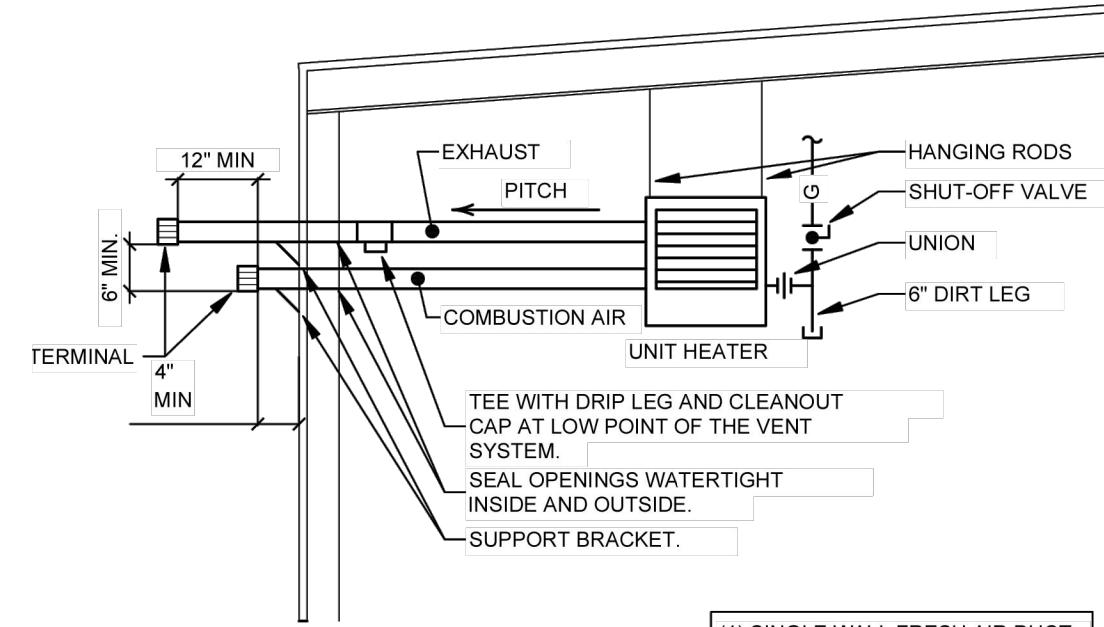
M78-301



LOUVER DETAIL
NTS



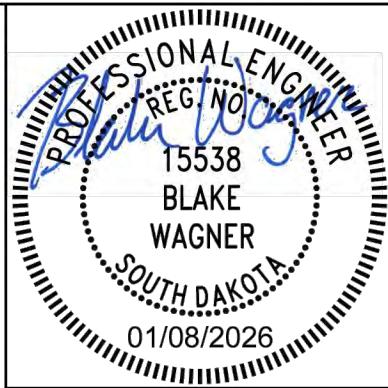
SUMP PUMP DETAIL
NTS



(1) SINGLE WALL FRESH AIR DUCT
(1) SINGLE WALL EXHAUST VENT

1. FRESH AIR INTAKE AND EXHAUST VENTING SHALL BE INSTALLED PER MFR RECOMMENDATIONS. INSULATE FRESH AIR DUCT IF CALLED OUT BY MFR.
2. THIS DETAIL IS ONLY APPLICABLE TO SPECIFIED UNIT HEATER. AT CONTRACTOR'S OPTION OF USING APPROVED EQUAL UNIT, CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED VENTING/COMBUSTION AIR MATERIALS. PVC AND CPVC ARE NOT ALLOWED FOR ANY CLOSED COMBUSTION UNIT HEATER VENTING.

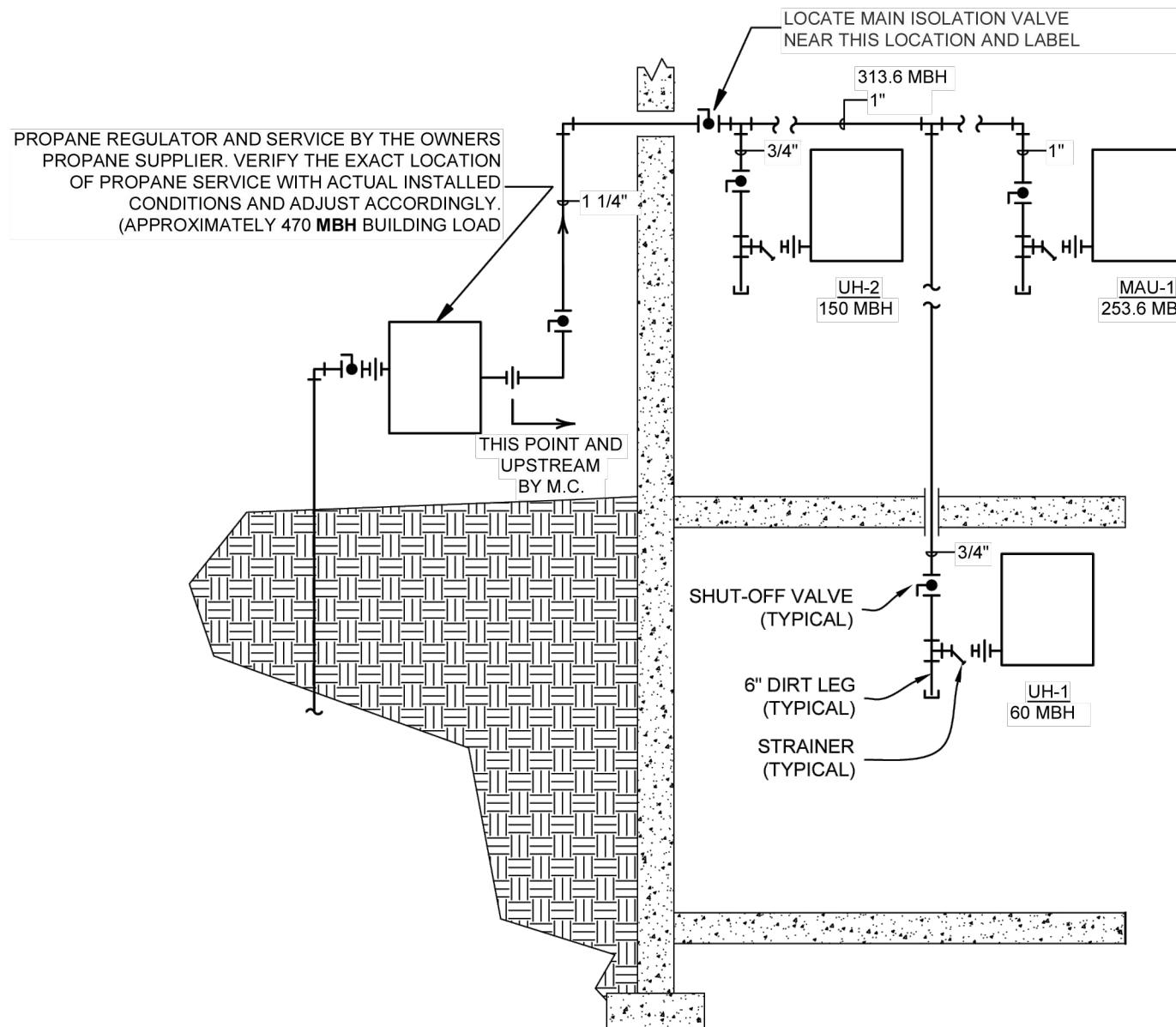
GAS FIRED UNIT HEATER DETAIL
NTS



MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
STRUCTURE 78 - MECHANICAL DETAILS
MOBRIDGE, SOUTH DAKOTA

DATE:	1/08/2026
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PROJECT No.	25547
MANAGER:	BAW
DESIGNER:	MJF
DRAFTER:	MJF
REVIEWER:	BAW

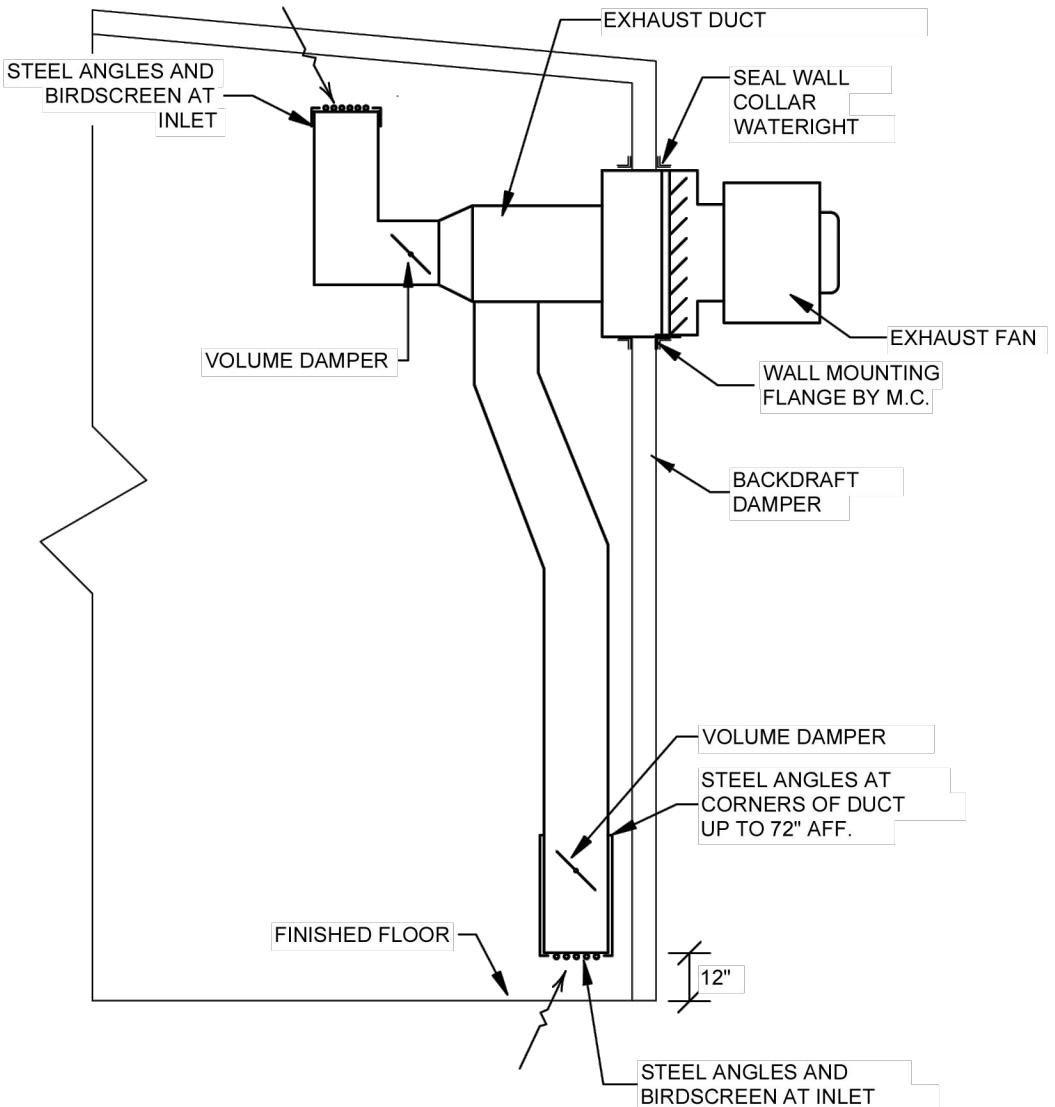
M78-501





PROPANE PIPING SCHEMATIC

NTS





WALL MOUNTED EXHAUST FAN DETAIL

NTS

WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA

STRUCTURE 78 - MECHANICAL DETAILS

	1/08/2026
ATE:	---
UM:	---
RD:	---
JECT No.	25547
AGER:	BAW
GNER:	MJF
FTER:	MJF
EWER:	BAW

M78-502

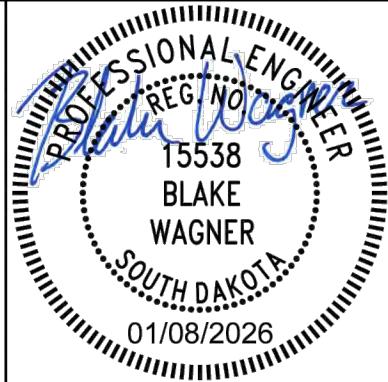
223000 - ELECTRIC WATER HEATER SCHEDULE

SCHEDULE NOTES:

1. MOUNT UP ON THE WALL A MINIMUM OF 5'-0" ABOVE FINISHED FLOOR ON A FIELD FABRICATED WALL MOUNTED STAND.
PROVIDE THE STAND, PRIME AND PAINT THE STAND FLAT BLACK.
2. SET TEMPERATURE TO 120 DEGREES

MARK	MANUFACTURER	MODEL	HEATING ELEMENT KW	NUMBER OF ELEMENTS	TANK VOLUME	TEMP RISE	RECOVERY	ELECTRICAL				NOTES
								VOLTS	Ph	Hz	SCCR	
WH-1	RHEEM	EGSP6	6	1	6 GALLON	100°F	24	208	1	60	5	1,2

FILE LOCATION: Q:\2025\25547 Mobridge WWTF Mechanical Drawings\25547 Mechanical.dwg



224000 - PLUMBING FIXTURE SCHEDULE - COMMERCIAL

SCHEDULE NOTES:

1. SCHEDULE IS ABBREVIATED. SEE PLUMBING SPECIFICATIONS SECTION 224000 FOR FULL SPECIFICATIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS
3. SEAL JOINTS BETWEEN FIXTURES AND FLOORS/WALLS WITH MILDEW RESISTANT SEALANT. MATCH COLOR TO FIXTURE.
4. PROVIDE A WALL CLEANOUT FOR EACH LAVATORY AND SINK.

TAG	Fixture			ADA	Faucet/Valve			Description
	Type	MFR	Model		MFR	Model	Option	
FPWH-1	FREEZEPROOF WALL HYDRANT CONCRETE BLOCK WALLS	N/A	N/A	N/A	ZURN	Z1322-EZ	FREEZE-PROOF HYDRANT	NON-FREEZE WALL HYDRANT, ANTI-SIPHON, SELF-DRAINING, KEYED LOCK OPERATION, FOR FLUSH INSTALLATION IN A 6" DIAMETER CORDED HOLE CONCRETE EXTERIOR WALL, GARDEN HOSE OUTLET.
WF-1	COLD WATER FAUCET	N/A	N/A	NO	CHICAGO FAUCET	952-12CP	"T" HANDLE	FURNISH AND INSTALL A POLISHED CHROME-PLATED FAUCET WITH ATMOSPHERIC VACUUM BREAKER, GARDEN HOSE CONNECTION ON OUTLET, "T" BLADE HANDLE.
WT-1	WASH TUB	FIAT	SF-1-W	NO	CHICAGO FAUCETS	526-ABCP	MANUAL	SINGLE COMPARTMENT POLYMER LAUNDRY TUB, WALL HUNG, DECK MOUNTED FAUCET WITH 2 3/8" HANDLES. PROVIDE WITH FACTORY FURNISHED WALL BRACKET CAPABLE OF 250LBS LOADS.

MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
STRUCTURE 78 - MECHANICAL SCHEDULES
MOBRIDGE, SOUTH DAKOTA

DATE: 1/08/2026

REV DATE: ---

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RECORD: ---

PROJECT No. 25547

MANAGER: BAW

DESIGNER: MJF

DRAFTER: MJF

REVIEWER: BAW

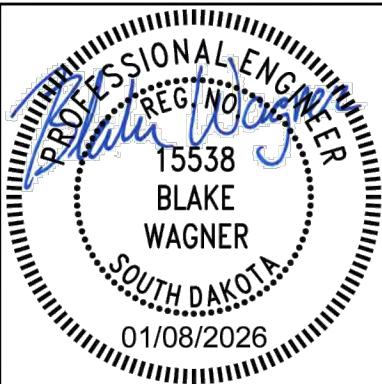
M78-601

221300 - WASTE FIXTURE SCHEDULE

SCHEDULE NOTES:

1. SCHEDULE IS ABBREVIATED. SEE SPECIFICATION FOR FULL OPTIONS REQUIRED.
2. NOT ALL CLEANOUTS ARE SHOWN OR TAGGED ON THE DRAWINGS. THOSE LISTED ARE THE BASIS OF DESIGN FOR ALL FLOOR CLEAN OUTS REQUIRED BY CODE.

TAG	TYPE	MFR	MODEL	NOTES
CO	CLEANOUT	WATTS	CO-200-R	FLOOR CLEAN OUT WITH ROUND TOP. CLEANOUT SHALL MATCH THE PIPE SIZE UP TO 4", ANYTHING LARGER THAN A 4" SHALL RECEIVE A 4" CLEANOUT. MODEL CO-200-RC FOR CLEANOUTS INSTALLED BELOW CARPET.
FD-1	FLOOR DRAIN	WATTS	FD-102	FINISHED AREA FLOOR DRAIN WITH STRAINER. VERIFY ROUND OR SQUARE STRAINER, ANY TILED FLOOR SHALL RECEIVE A SQUARE STRAINER ALL OTHER FLOOR TYPES MAY RECEIVE A ROUND STRAINER.



M
moore
engineering, inc.

223000 - SUMP PUMP SCHEDULE

SCHEDULE NOTES:

1. SEE DETAIL FOR ACCESSORIES. SUMP WILL BE FORMED CONCRETE BY OTHERS, OPEN GRATE COVER BY OTHERS. COORDINATE THE PIPE PENETRATIONS THRU THE GRATING AS REQUIRED.
2. AUTOMATIC PUMP CONTROL WITH HIGH WATER ALARM AND CONTACT FOR BAS ALARM.
3. PROVIDE PUMP WITH 15' CORD.

MARK	MANUFACTURER	MODEL	TYPE	SHUTOFF HD	MOTOR INFORMATION					NOTES
					AMPS	HP	V	Ph	Hz	
SP-1	ZOELLER	N152	SUMP	38	8.5	4/10	120	1	60	1,2,3

MECHANICAL PLANS
WASTEWATER TREATMENT FACILITY UPGRADES
WASTEWATER TREATMENT PLANT IMPROVEMENTS
MOBRIDGE, SOUTH DAKOTA
STRUCTURE 78 - MECHANICAL SCHEDULES

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PROJECT No. 25547

MANAGER: BAW

DESIGNER: MJF

DRAFTER: MJF

REVIEWER: BAW

M78-602