

ROCKLAND COUNTY SEWER DISTRICT NO.1 ORANGEBURG, NEW YORK

EDWIN J. DAY, COUNTY EXECUTIVE

LEGISLATURE

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BETH J. DAVIDSON
THOMAS F. DIVINY
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DOUGLAS J. JOBSON
WILL J. KENNELLY
JESSE M. MALOWITZ
ANEY PAUL
RAYMOND W. SHERIDAN, III

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DANA G. STILLEY
ARON B. WIEDER
ALDEN H.WOLFE
ITAMAR YEGER

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TERESA KENNY
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ALAN SIMON
JOSEPH TURSI

MICHAEL R. SABER, P.E.
EXECUTIVE DIRECTOR

ORANGEBURG WASTEWATER TREATMENT PLANT SCREENING IMPROVEMENTS PROJECT

CONTRACT NO. RFB-RC-SWR-2023-06
SRF PROJECT NO. C3-5368-35-00



**Environmental
Facilities Corporation**



**FOR BID
JUNE 2024**

Autodesk Docs/046462-000_EDS and CA for RCSD Streets Rehab/0462-000-GENERAL.rvt
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SHT	DWG	TITLE
1	G-01	CONTRACT TITLE SHEET
2	G-02	INDEX OF DRAWINGS
3	G-03	LEGEND, SYMBOLS, AND ABBREVIATIONS
4	G-04	AREA DESIGNATION TABLES
5	G-05	OVERALL SITE PLAN
6	C-01	NOTES, LEGEND, AND ABBREVIATIONS
7	C-02	EXISTING CONDITIONS, EROSION CONTROL, AND DEMOLITION SITE PLAN
8	C-03	GRADING AND DRAINAGE PLAN
9	C-04	FINAL SITE PLAN
10	C-05	DETAILS - SHEET 1
11	C-06	DETAILS - SHEET 2
12	DA-01	ARCHITECTURAL REMOVAL PLANS EL 70.50 AND EL 88.50 AND ELEVATION
13	A-01	LEGEND AND NOTES
14	A-02	LIFE SAFETY PLAN AND CODE ANALYSIS
15	A-03	FIRST FLOOR PLAN
16	A-04	ROOF PLAN
17	A-05	ELEVATIONS
18	A-06	SECTIONS
19	A-07	WALL SECTIONS AND DETAILS
20	A-08	DETAILS
21	A-09	ROOF DETAILS
22	A-10	DOOR SCHEDULE AND DETAILS
23	A-11	WINDOW AND IDENTIFYING DEVICES SCHEDULE AND DETAILS
24	DS-01	STRUCTURAL REMOVAL PLAN EL 52.50, EL 70.50, AND SECTION
25	S-01	GENERAL STRUCTURAL NOTES - SHEET 1
26	S-02	GENERAL STRUCTURAL NOTES - SHEET 2
27	S-03	PLANS EL 52.50 AND 67.00 AND DETAILS
28	S-04	PLANS EL 70.50 AND 88.50
29	S-05	SECTIONS - SHEET 1
30	S-06	SECTIONS - SHEET 2
31	S-07	SECTIONS - SHEET 3
32	S-08	ENLARGED STAIR PLAN AND SECTIONS
33	S-09	BEAM DETAILS AND SCHEDULE
34	S-10	CONCRETE REPAIR DETAILS AND NOTES
35	S-11	DETAILS - SHEET 1
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37	S-13	DETAILS - SHEET 3
38	S-14	DETAILS - SHEET 4
39	S-15	DETAILS - SHEET 5
40	S-16	SPECIAL INSPECTION


SHT	DWG	TITLE
41	DM-01	MECHANICAL REMOVAL PLANS EL 52.50 AND EL 70.50
42	DM-02	MECHANICAL REMOVAL SECTIONS
43	M-01	NOTES AND ABBREVIATIONS
44	M-02	PROCESS FLOW DIAGRAM
45	M-03	HYDRAULIC PROFILE
46	M-04	PLANS
47	M-05	SECTIONS - SHEET 1
48	M-06	SECTIONS - SHEET 2
49	M-07	DETAILS - SHEET 1
50	M-08	DETAILS - SHEET 2
51	M-09	DETAILS - SHEET 3
52	I-01	SYMBOLS AND LEGEND
53	I-02	PROCESS AND INSTRUMENTATION DIAGRAM - SCREENS
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55	I-04	INSTALLATION DETAILS
56	DP-01	PLUMBING REMOVAL PLAN EL 70.50
57	P-01	NOTES AND LEGEND
58	P-02	RISER DIAGRAMS
59	P-03	DOMESTIC PLAN EL 70.50
60	P-04	EFFLUENT PLAN EL 70.50
61	P-05	SANITARY PLAN EL 66.50
62	P-06	STORM DRAIN PLAN EL 70.50
63	P-07	ROOF DRAIN PLAN EL 88.00
64	P-08	SECTION
65	P-09	DETAILS
66	DH-01	HVAC REMOVAL PLAN EL 70.50
67	DH-02	HVAC REMOVAL PLAN EL 88.00
68	H-01	LEGEND AND NOTES
69	H-02	AIRFLOW DIAGRAM
70	H-03	SCHEDULES
71	H-04	PLAN EL 70.50
72	H-05	PLAN EL 88.00
73	H-06	SECTIONS
74	H-07	DETAILS
75	DE-01	ELECTRICAL REMOVALS FIRST FLOOR DEMOLITION PLAN
76	DE-02	ELECTRICAL REMOVALS ROOF DEMOLITION PLAN
77	E-01	LEGENDS AND NOTES
78	E-02	SITE PLAN
79	E-03	FIRST FLOOR LIGHTING PLAN
80	E-04	FIRST FLOOR POWER PLAN

SHT	DWG	TITLE
81	E-05	ROOF POWER PLAN
82	E-06	SINGLE LINE DIAGRAM
83	E-07	MCC SCHEDULE AND ELEVATION
84	E-08	CONTROL DIAGRAM
85	E-09	MISCELLANEOUS DETAILS I
86	E-10	MISCELLANEOUS DETAILS II

0	BID	06/2024	PDS
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	R. FROST
DRAWN BY:	B.CASULL
CHECKED BY:	P. SAURER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

FOR BID



Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

GENERAL
INDEX OF DRAWINGS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	G-02

Autodesk Docs/0462-000_EDS and CA for RCSD Streets Rehab/0462-000-GENERAL.rvt
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ABBREVIATIONS										LEGEND	
GENERAL										SYMBOLS	
A/C	AIR CONDITIONER	DT	DAY TANK	I	IRON	PP	POWER PANEL OR POWER	VENT	VENTILATING OR	<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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NOTES:

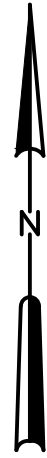
1. THIS TABLE PROVIDES MINIMUM ACCEPTABLE MATERIAL REQUIREMENTS IF NO FURTHER GUIDANCE IS GIVEN IN DRAWINGS AND SPECIFICATIONS. ALTERNATE MATERIALS MAY BE REQUIRED WHERE SPECIFICALLY IDENTIFIED IN DRAWINGS OR SPECIFICATIONS.
2. FOR SST ITEMS IT IS ACCEPTABLE TO USE 304 IN LIEU OF 304L AND 316 IN LIEU OF 316L IF NO WELDING IS REQUIRED.

	MECHANICAL SCREEN ROOM	Table 5.2.2. Row 2b.	Class 1, Division 2	FE,H,CGD	B	NOTE 1, 4
	COMPACTOR ROOM	Table 5.2.2. Row 2b.	Class 1, Division 2	FE,H,CGD	B	NOTE 1, 3, 4
	ELECTRICAL ROOM	N/A	UNCLASSIFIED	NR	A	
	BAR RACK CHANNELS / WET WELL	Table 5.2.2. Row 2b.	Class 1, Division 2	FE,H,CGD	B	NOTE 1, 4
	DUMPSTER ROOM	Table 5.2.2. Row 2b.	Class 1, Division 2	NR	B	NOTE 1, 3, 4
	MECHANICAL SCREEN ROOM DUCTWORK/FANS	Table 5.2.2. Row 2b.	Class 1, Division 2	FE,H,CGD	B	NOTE 2

A - NO VENTILATION OR VENTILATED AT LESS THAN 12 ACH
B - CONTINUOUSLY VENTILATED AT 12 ACH
ACH - AIR CHANGES PER HOUR
CGD - COMBUSTIBLE GAS DETECTION REQUIRED
FE - PORTABLE FIRE EXTINGUISHER REQUIRED
H - HYDRANT PROTECTION REQUIRED
NR - NOT REQUIRED
N.A - NOT APPLICABLE

1. CONTRACTOR SHALL ASSUME ALL EXISTING VENTILATION EQUIPMENT IS NOT FUNCTIONAL OR FUNCTIONS AT LESS THAN DESIGN CAPACITY. CONTRACTOR SHALL PROVIDE PORTABLE COMBUSTIBLE GAS DETECTION FOR THE PROTECTION OF ITS EMPLOYEES FOR AREAS WHERE COMBUSTIBLE GAS DETECTION IS REQUIRED.
2. THE AREA BEYOND THE ENVELOPE IS UNCLASSIFIED.
3. DUMPSTER ROOM AND COMPACTOR ROOM ARE CONNECTED TO THE MECHANICAL SCREEN ROOM, THEREFORE THE AREAS HAVE THE SAME CLASSIFICATION AS THE MECHANICAL SCREEN ROOM.
4. FOR CLASS 1, DIVISION 2 LOCATIONS, EQUIPMENT AND CONSTRUCTION TOOLS SHALL BE RATED FOR CLASS 1, DIVISION 1.

				PROJECT ENGINEER:	R. FROST	FOR BID		<h1>Hazen</h1> <p>HAZEN AND SAWYER 498 SEVENTH AVENUE, 11th FLOOR NEW YORK, NEW YORK 10018</p>	ROCKLAND COUNTY SEWER DISTRICT NO.1 ORANGEBURG, NEW YORK	GENERAL AREA DESIGNATION TABLES	DATE:	JUNE 2024
				DESIGNED BY:	R. FROST				HAZEN NO.:		90462-000	
				DRAWN BY:	B.CASULL				CONT NO.:		RFB-RC-SWR-2023-06	
				CHECKED BY:	P. SAURER				DRAWING NUMBER:		G-04	
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE								
REV	ISSUED FOR	DATE	BY						ORANGEBURG WASTEWATER TREATMENT PLANT SCREENING IMPROVEMENTS PROJECT			



SITE PLAN
SCALE: 1" = 80'

SCALE: 1" = 80'



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PROJECT ENGINEER:	R. FROST
DESIGNED BY:	R. FROST
DRAWN BY:	B. CASULL
CHECKED BY:	P. SAURER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

FOR BID



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11TH FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

GENERAL
OVERALL SITE PLAN

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	G-05

GENERAL NOTES:

1. SITE INFORMATION TAKEN FROM SITE SURVEY CONDUCTED BY STEPHEN R. MILLER, LS, PC, DATED 8-2-2023.
2. HORIZONTAL CONTROL IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
5. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, TREES, VEGETATION, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, TREES, VEGETATION, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE GIS INFORMATION, RECORD DRAWINGS, AND SITE SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK AT PHONE NUMBER 811 OR 1-800-962-7962 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE CONTRACTOR SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF DIG SAFELY NEW YORK.
7. WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.
8. WHERE OVERHEAD POWER LINES ARE PRESENT, CONTRACTOR MUST CONTACT THE UTILITY PRIOR TO CONSTRUCTION ACTIVITIES TO DETERMINE THE MINIMUM REQUIRED EQUIPMENT CLEARANCE (MEC) DISTANCE BASED UPON LINE STRENGTH.
9. DURING STRUCTURAL EXCAVATION AND PLACEMENT OF UTILITIES THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS, INCLUDING BUT NOT LIMITED TO 29 CFR 1926 SUBPART P EXCAVATIONS AND NYS CR 753 DIG SAFELY NY REGULATIONS, AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS, PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK, AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.
10. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED THROUGH AN APPROVED SEDIMENT FILTERING DEVICE TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE APPLICABLE NYSDEC PERMITS TO BE PROCURED BY THE CONTRACTOR.
11. ALL TEMPORARY FACILITIES ARE SUBJECT TO THE SAME HEALTH AND SAFETY REQUIREMENTS AS PERMANENT FACILITIES, AS SPECIFIED IN THE CONTRACT DOCUMENTS AND HEALTH SAFETY PLAN (HASP).
12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
13. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE AND MAINTAIN ALL PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. A STATE OF NEW YORK REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE SHALL REPLACE PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED BY THE CONTRACTOR. MONUMENTS FROM SURVEY INCLUDE: "TOP CENTER NUT HYDRANT" AND "BOX CUT ON STEP". FOR REFERENCE MONUMENTS, SEE DRAWING C-02.

TABLE OF EXISTING MONUMENTS

NAME	COORDINATES	ELEVATION
TOP CENTER NUT HYDRANT	N: 805369.69	71.79'
	E: 645307.81	
BOX CUT ON STEP	N: 805450.99	69.93'
	E: 645447.99	

14. CONTRACTOR IS REQUIRED TO UTILIZE HAND DIGGING OR HYDROEXCAVATION TO A DEPTH OF 4 FEET IN AREAS WHERE UNDERGROUND UTILITIES ARE PRESENT.

LEGEND

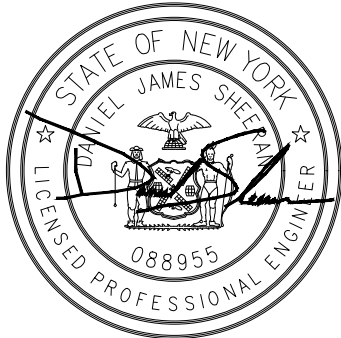
NEW	EXISTING	
		CONTOUR
		SPOT ELEVATION
		PROPERTY LINE
		WATER PIPING
		UNDERGROUND ELECTRIC
		GAS LINE
		STORM LINE
		HYDRANT
		BACK OF CURB
		FRONT OF CURB
		SEWER PIPE
		TOP OF CURB BOTTOM OF CURB
		SEWER MANHOLE
		DROP INLET
		ELECTRICAL MANHOLE
		BOLLARD
		CHAIN LINK FENCE
		ELECTRICAL EQUIPMENT
		UTILITY POLE
		STREET SIGN
		ROOF DRAIN
		DEMOLITION ITEMS
		LIMIT OF DISTURBANCE
		SILT FENCE
		CONSTRUCTION FENCE
		INLET PROTECTION
		CURB INLET
		TEST BORING LOCATION
		GEO-TECH SOIL BORING
		CONCRETE SIDEWALK
		PAVEMENT RESTORATION
		LANDSCAPE STONE
		GRASS RESTORATION

ABBREVIATIONS

SD	STORM DRAIN	PVC	POLYVINYL CHLORIDE
MH	MANHOLE	FM	FORCE MAIN
OF	OVERFLOW	FDC	FIRE DEPARTMENT CONNECTION
DIP	DUCTILE IRON PIPE	FP	FIRE PROTECTION
WWR	WASHWATER RECYCLE	PW	POTABLE WATER
GD	GALLERY DRAIN	LF	LINEAR FEET
WWW	WASTE WASHWATER	PPE	POLYPROPYLENE
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
ACF	ANNUAL CHANCE FLOOD	G	GAS
EOP	EDGE OF PAVEMENT	SS	SANITARY SEWER
LOD	LIMITS OF DISTURBANCE	W	WATER
OHE	OVERHEAD ELECTRIC	ℙ	PROPERTY LINE
FOC	FIBER OPTIC CABLE	℄	CENTER LINE
LP	LIGHT POLE	RECM	ROLLED EROSION CONTROL MATTING
UGE	UNDERGROUND ELECTRIC	SHWT	SEASONALLY HIGH WATER TABLE
PP	POWER POLE	TP	TEST PIT
TOC	TOP OF CURB	BOC	BOTTOM OF CURB

				PROJECT ENGINEER:	R. FROST
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				CHECKED BY:	D. SHEERAN
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REV	ISSUED FOR	DATE	BY	0	1/2" 1"

FOR BID



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NEW YORK, NEW YORK 10018

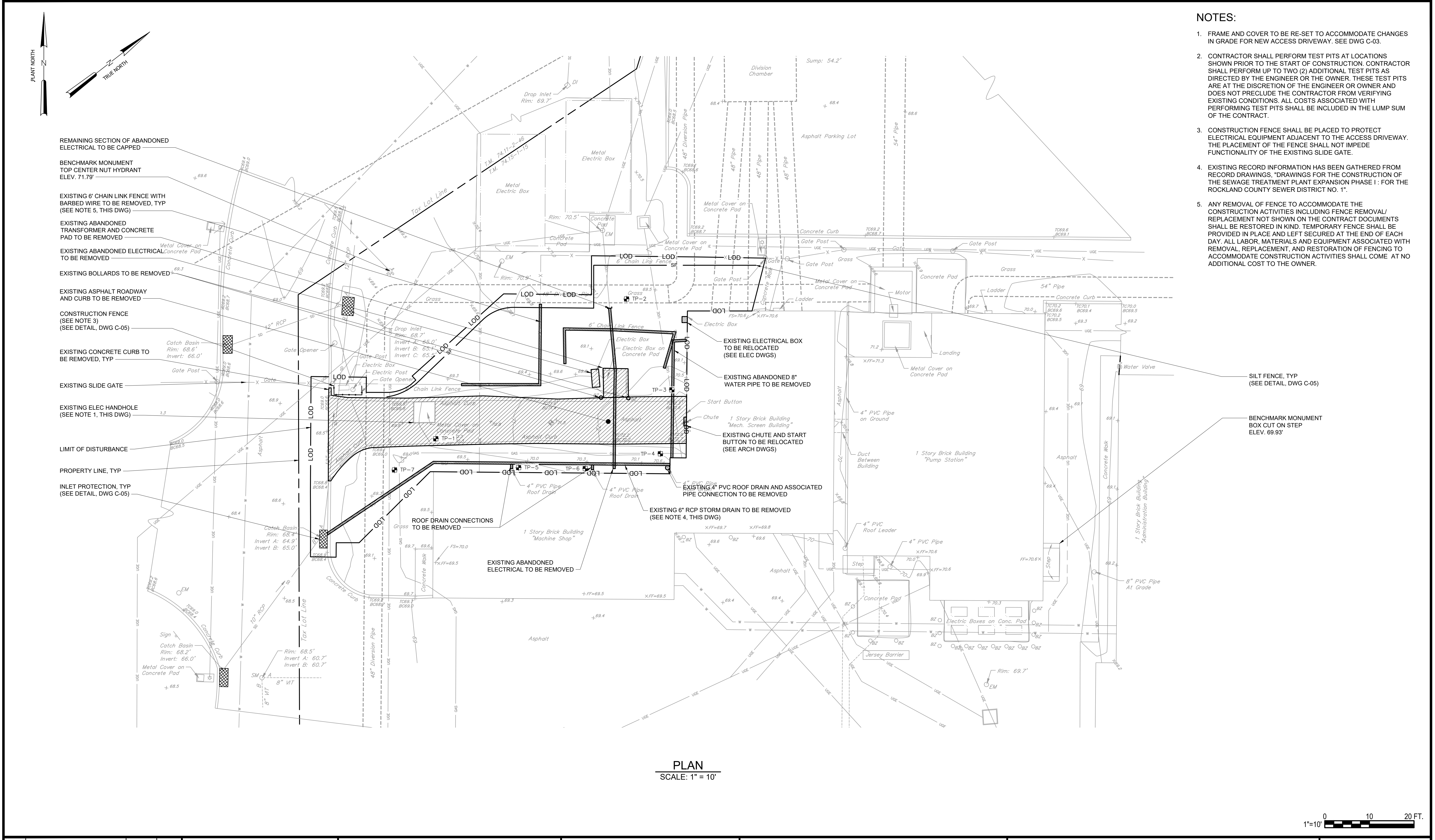
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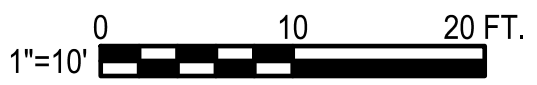
CIVIL
NOTES, LEGEND & ABBREVIATIONS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	C-01

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PLAN
SCALE: 1" = 10'



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				DESIGNED BY:	J. TANNER
				DRAWN BY:	J. TANNER
				CHECKED BY:	D. SHEERAN
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
0	BID	06/2024	PDS		0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

FOR BID

Hazen

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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

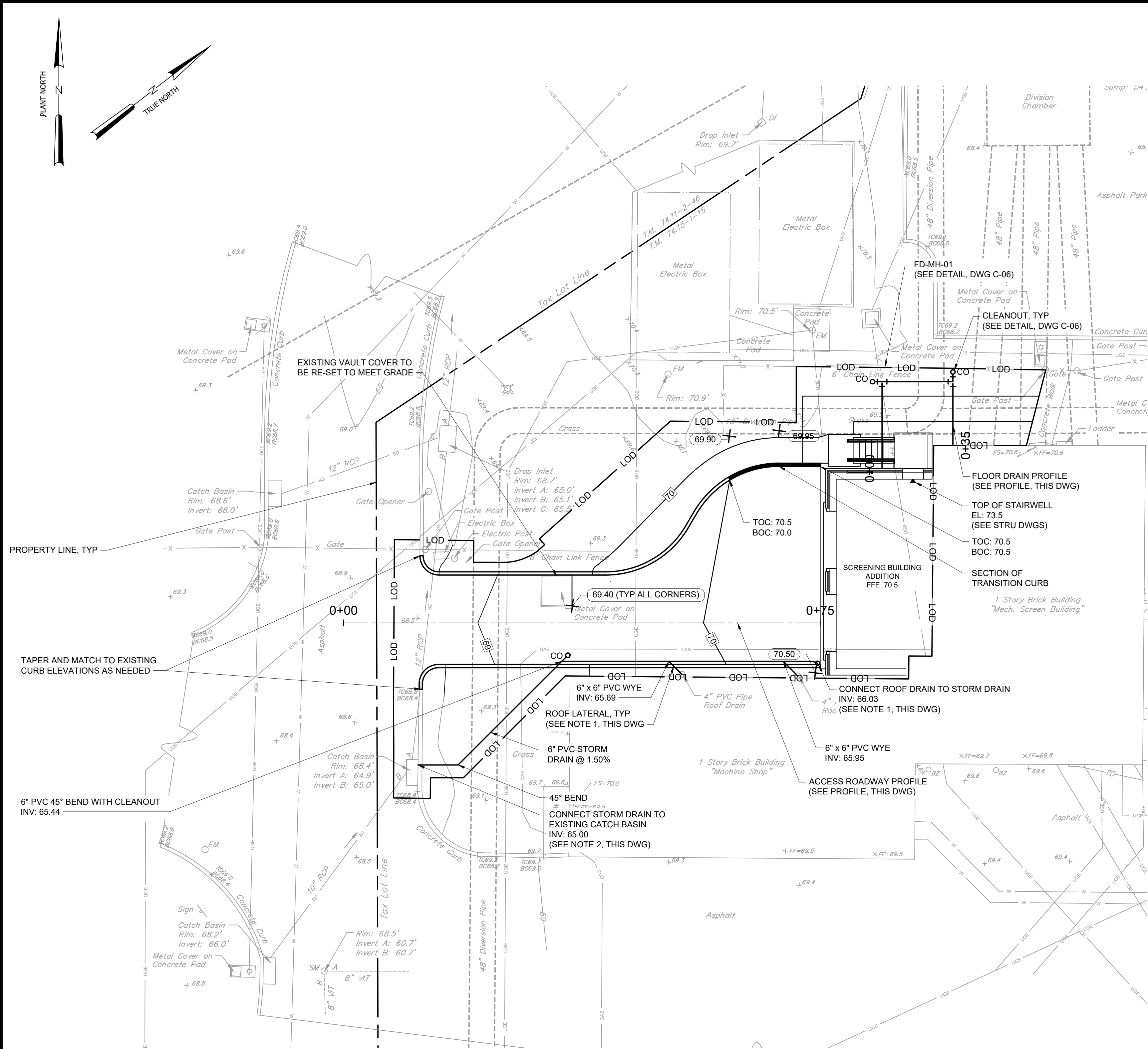
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

CIVIL

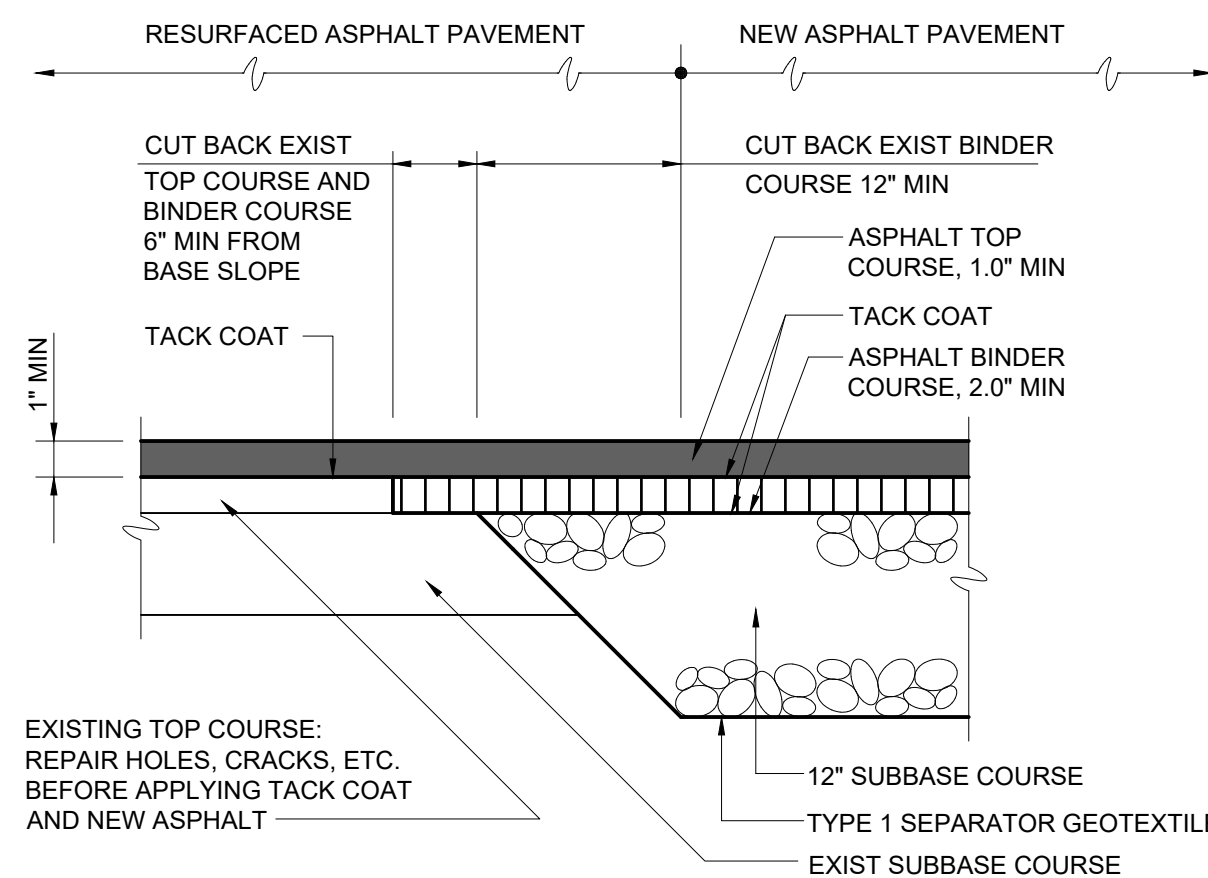
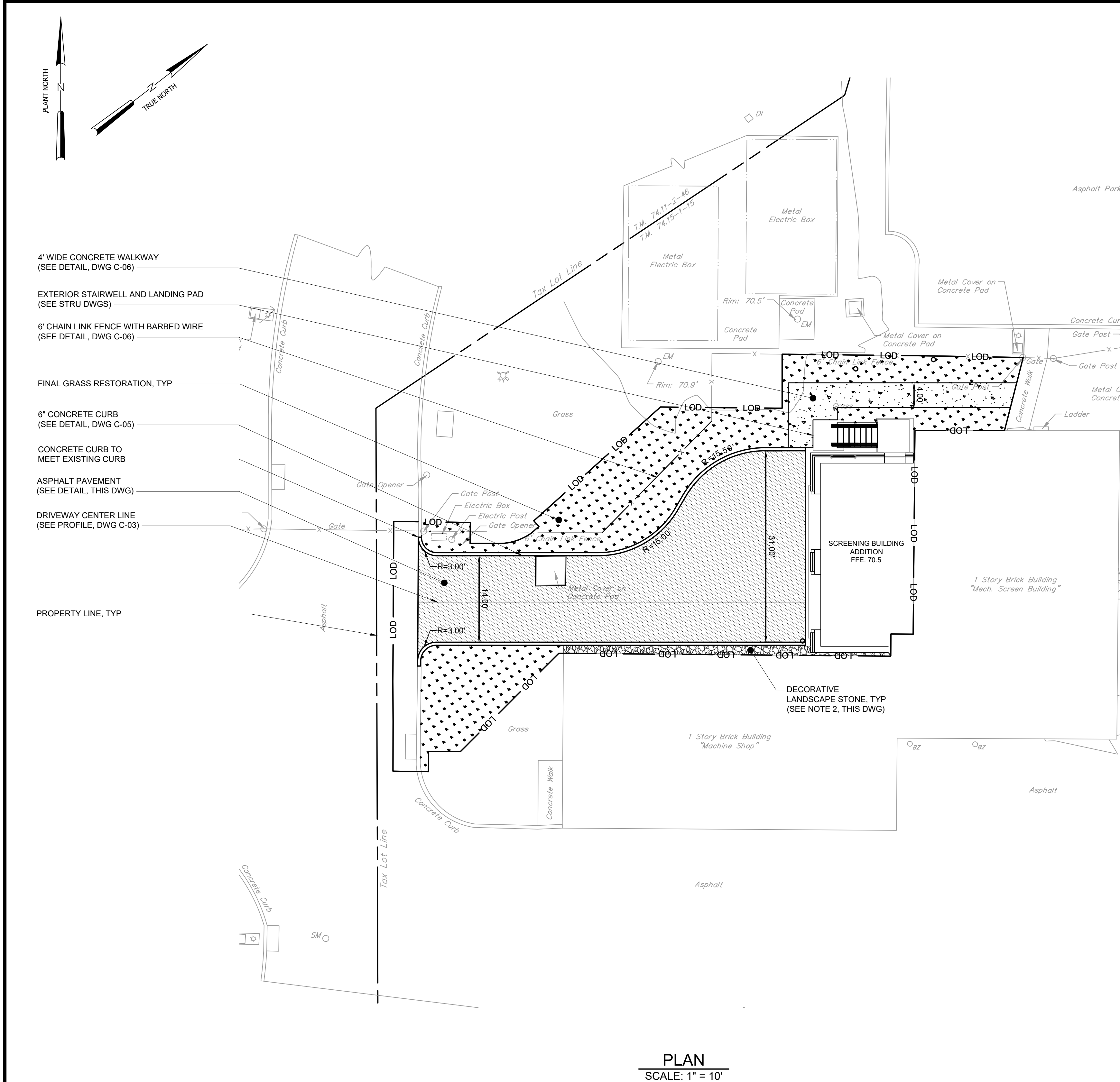
EXISTING CONDITIONS, EROSION CONTROL AND
DEMOLITION SITE PLAN

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	C-02

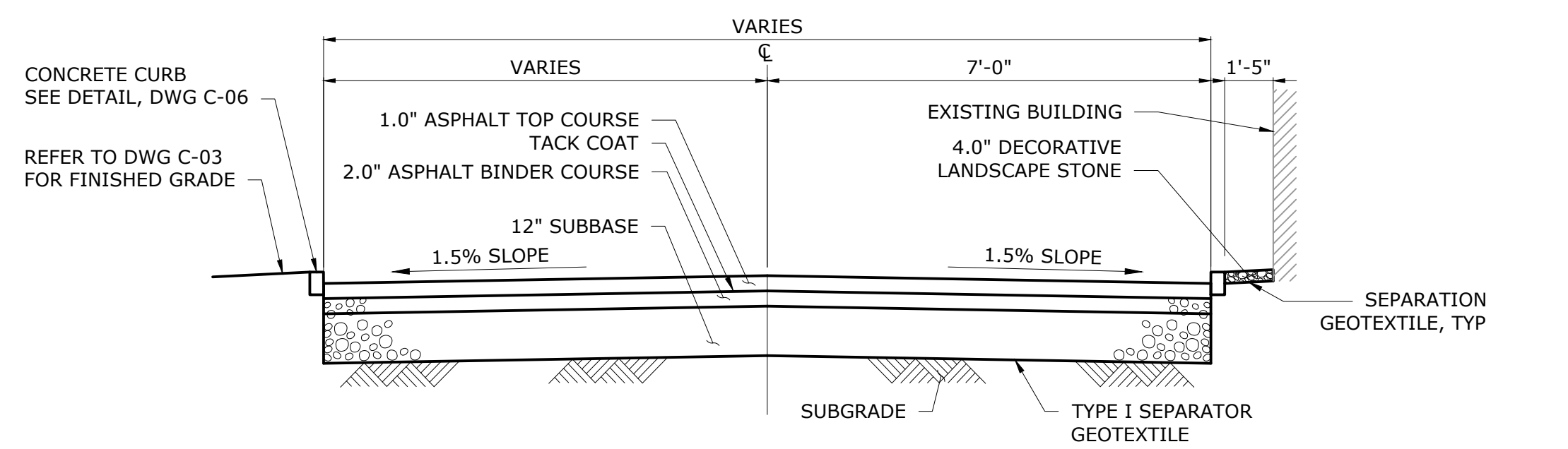
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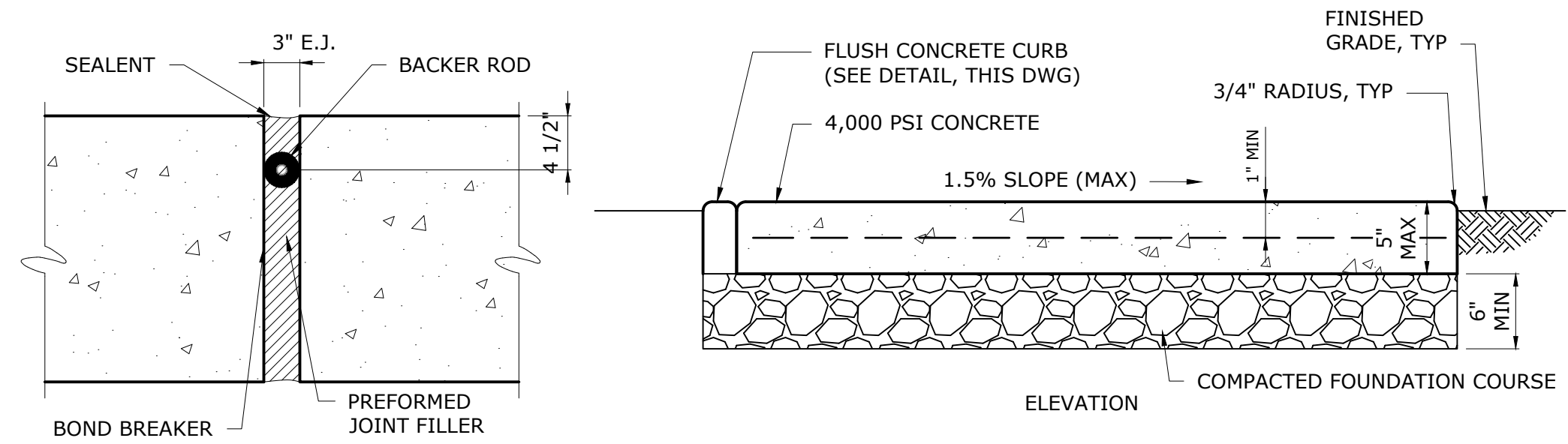
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TYPICAL PAVEMENT JUNCTION
NTS



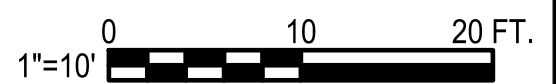
TYPICAL ACCESS DRIVEWAY SECTION
NTS



- NOTES:
- EXPANSION JOINTS ARE TO BE LOCATED 10'-0" ON CENTER.
 - TOOLED OR CUT JOINTS LOCATED AT 5'-0" ON CENTER.
 - CONCRETE TO BE BROOM FINISHED.
 - CONCRETE AND GRANULAR FILL TO BE PLACED ON SUBGRADE COMPACTED TO 95% DENSITY.

CONCRETE WALKWAY
NTS

- NOTES:
- YARD PIPING, BURIED UTILITY INFRASTRUCTURE AND SITE TOPOGRAPHY IS NOT SHOWN FOR CLARITY. SEE DRAWINGS C-02 - C-03.
 - DECORATIVE LANDSCAPE STONE SHALL BE SMOOTH ROUNDED STONE SIZED BETWEEN ONE TO TWO INCHES. CONTRACTOR SHALL SUBMIT THREE SAMPLES OF DIFFERENT STONE TYPE TO THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL.



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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

CIVIL
FINAL SITE PLAN

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	C-04

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS SPECIFIED BY THE NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NOVEMBER 2016).

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATION REQUIREMENTS AND POLLUTION CONTROL LAWS, RULES, REGULATIONS OR PERMIT CONDITIONS BY OTHER FEDERAL OR STATE OR LOCAL GOVERNMENT AGENCIES, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.

THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AS REQUIRED DURING EACH PHASE OF CONSTRUCTION RESULTING IN A CHANGE OF EITHER THE QUANTITY OR DIRECTION OF SURFACE RUNOFF FROM THE CONSTRUCTION AREAS. EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE AT THE CONCLUSION OF THE PROJECT.

CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER, OWNER, AND REGULATORY AGENCIES FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

NO LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, SILT FENCING, INLET PROTECTION, AND TEMPORARY DIVERSIONS HAVE BEEN INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. IF CLEARING IS REQUIRED FOR INSTALLATION OF A PARTICULAR MEASURE, ALL MEASURES NOT REQUIRING CLEARING SHALL BE INSTALLED FIRST. CLEARING OF THE NECESSARY LAND FOR INSTALLATION OF THE PARTICULAR MEASURE MAY THEN PROCEED.

APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE USED ARE SPECIFIC TO THE PARTICULAR SITE.

CLEARING SHALL BE LIMITED AS MUCH AS POSSIBLE TO AREAS REQUIRED FOR CURRENT CONSTRUCTION ACTIVITIES. MASS CLEARING AND GRADING SHALL BE AVOIDED.

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTORS QUALIFIED INSPECTOR WITHIN 24 HOURS FOLLOWING EVERY RAINFALL EVENT THAT HAS PRECIPITATION OF 0.5" OR GREATER, BUT IN NO CASE LESS THAN ONCE EVERY SEVEN CALENDAR DAYS.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, REPAIRED, OR REPLACED IMMEDIATELY BY THE CONTRACTOR AS REQUIRED TO MAINTAIN PERFORMANCE OF MEASURE DURING THE LIFE OF THE PROJECT, INCLUDING WINTER SHUTDOWN, ETC. SUCH INSPECTION AND MAINTENANCE SHALL CONTINUE UNTIL AFTER PERMANENT STABILIZATION MEASURES ARE IN PLACE AND THE TEMPORARY CONTROL MEASURES ARE ORDERED TO BE REMOVED BY THE ENGINEER.

TIMELY MAINTENANCE OF SEDIMENT CONTROL PRACTICES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL PRACTICES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL PRACTICES SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED BY THE END OF EACH WORK DAY, PRIOR TO EVERY WEEKEND, BEFORE AND AFTER EACH RAINFALL OF 0.5" OR GREATER WITHIN A 12 HOUR PERIOD, OR AS DIRECTED BY THE ENGINEER IN ORDER TO INSURE PROPER OPERATION.

WHERE EROSION CONTROL MATERIALS HAVE BEEN USED ON FINAL GRADE THAT HAVE BEEN PERMANENTLY SEEDED, THE CONTRACTOR SHALL CARE FOR THE AREAS UNTIL ACCEPTANCE OF THE CONTRACT OR ACCEPTANCE OF THE TURF, WHICHEVER IS LATER. WHERE NECESSARY, SUCH CARE MAY INCLUDE, BUT IS NOT LIMITED TO PROVIDING WARNING SIGNS OR BARRICADES FOR PROTECTION AGAINST TRAFFIC, ANY SURFACES THAT HAVE SETTLED, BECOME GULLED, OR OTHERWISE DAMAGED SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE CITY TO REESTABLISH THE GRADE AND SOIL CONDITIONS THAT EXISTED PRIOR TO PLACING EROSION CONTROL MATERIALS.

DUST CONTROL SHALL BE PROVIDED AS DIRECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON STOCKPILES AND IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. FOR CONSTRUCTION SITES WHERE SOIL DISTURBANCE ACTIVITIES HAVE BEEN TEMPORARY OR PERMANENTLY SUSPENDED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED INSPECTOR AT LEAST ONCE EVERY THIRTY (30) CALENDAR DAYS. THIS REQUIREMENT DOES NOT APPLY IN THE FOLLOWING INSTANCES:

A) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE;

B) WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN FOURTEEN (14) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.

ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBANCE ACTIVITIES AND UNTIL FINAL STABILIZATION IS ACHIEVED. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER ACTIVITIES SHALL BE PUMPED INTO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.

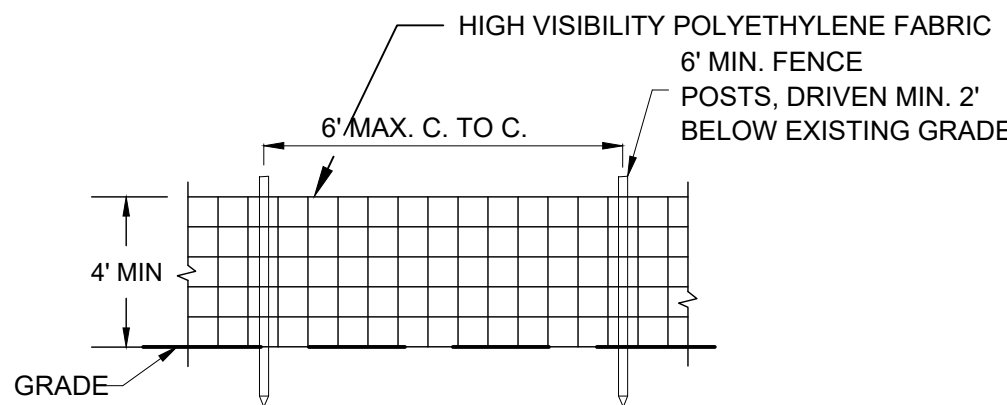
SOIL STOCKPILE AND LAYDOWN AREAS SHALL HAVE PERIMETER SEDIMENT CONTROL MEASURES AND TEMPORARY OR PERMANENT STABILIZATION MEASURES INSTALLED AS SOON AS POSSIBLE AND AT COMPLETION OF STOCKPILING AND LAYDOWN ACTIVITIES. STOCKPILES, EXCLUDING FINAL CONDITION STOCKPILE, SIDE SLOPES SHALL NOT EXCEED 3H ; 1V UNLESS APPROVED BY ENGINEER. AND IN NO CASE EXCEED 2H ; 1V. FINAL CONDITION STOCKPILE SHALL NOT EXCEED 2H ; 1V. TOP OF STOCKPILE SHALL BE GRADED WITH A MINIMUM 5% SLOPE TO INSURE PROPER DRAINAGE.

DISTURBED AREAS, EXCEPT FOR CONCRETE AND PAVED AREAS, SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY, TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED OFFSITE ROADWAYS. IF MATERIAL IS TRACKED ONTO OFFSITE ROADWAYS, IT SHALL BE REMOVED IMMEDIATELY. DO NOT UTILIZE A WATER HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT CONTROL DEVICE. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO OFFSITE ROADWAYS ARE REMOVED SO THAT THEY DO NOT

-
- 0.25" RADIUS
CONTINUOUS
#5 REBAR
- ASPHALT
PAVEMENT
- CONCRETE CURB
CAST IN PLACE
- 6"
- 6"
- 6"
- 9"
- 6"
- 6" MIN
FOUNDATION
COURSE
- 18"
- FINISHED GRADE

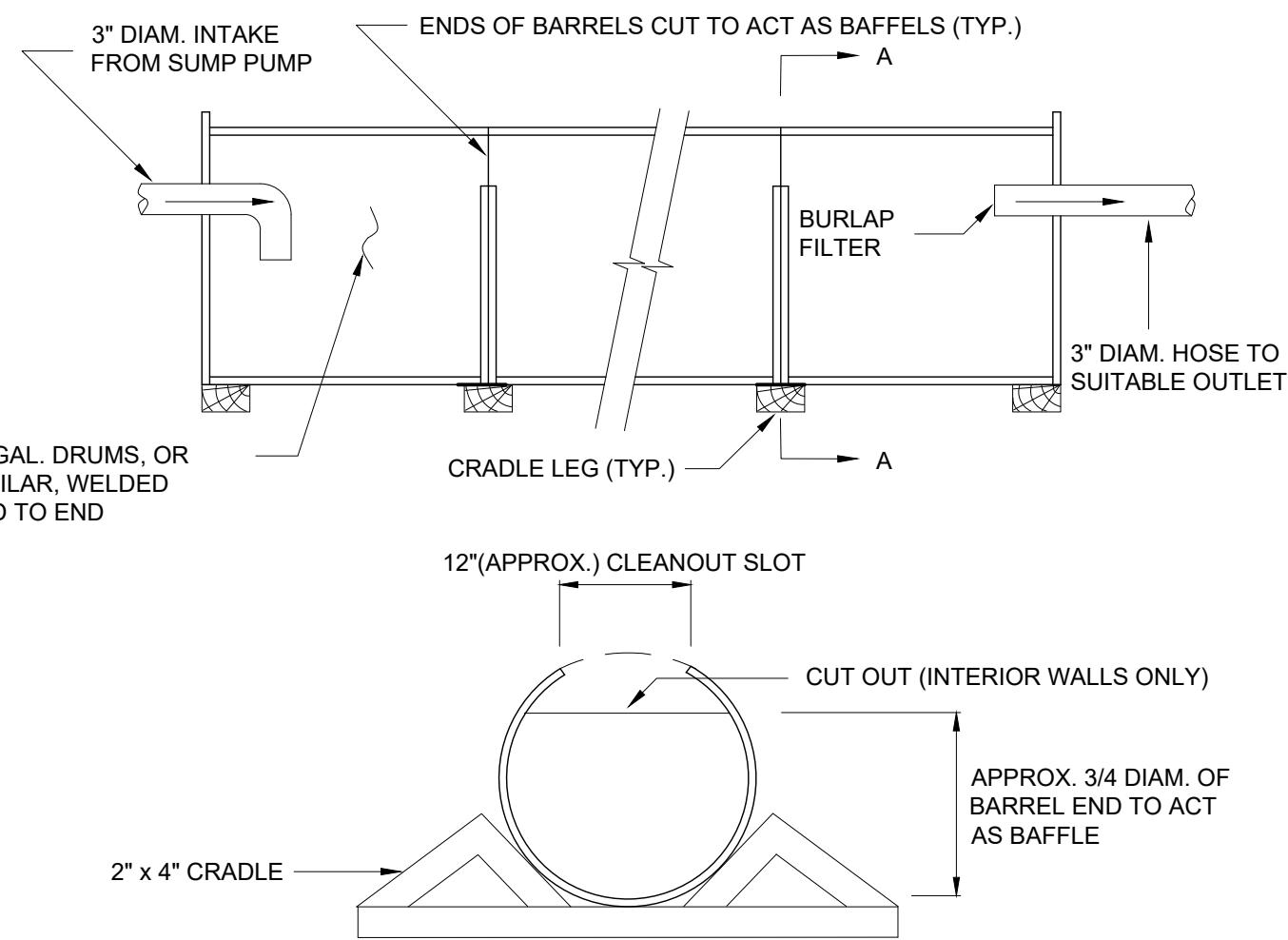
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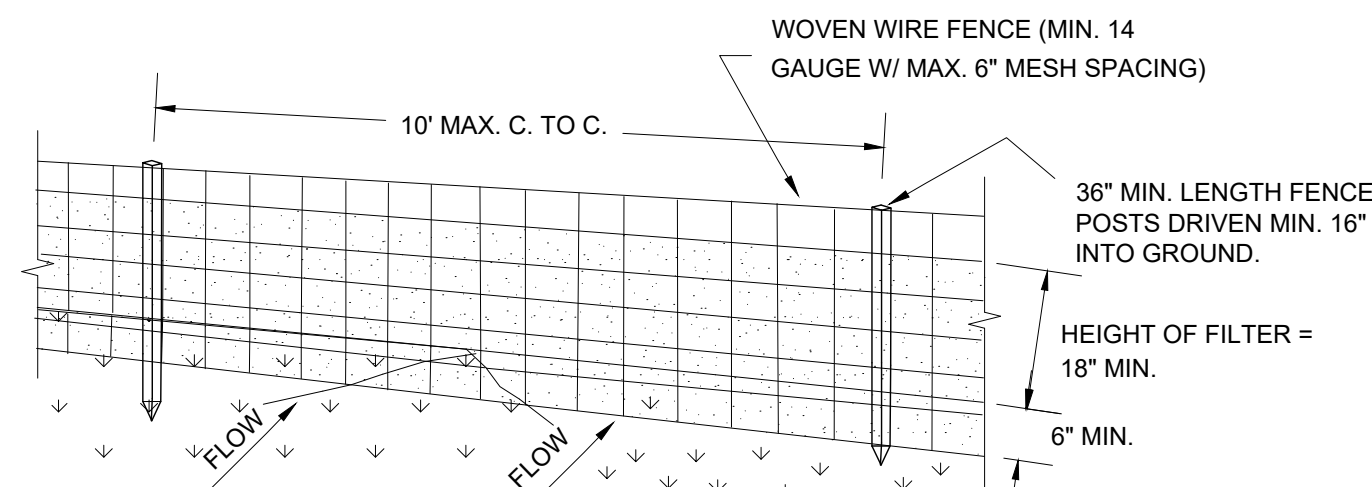


1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.

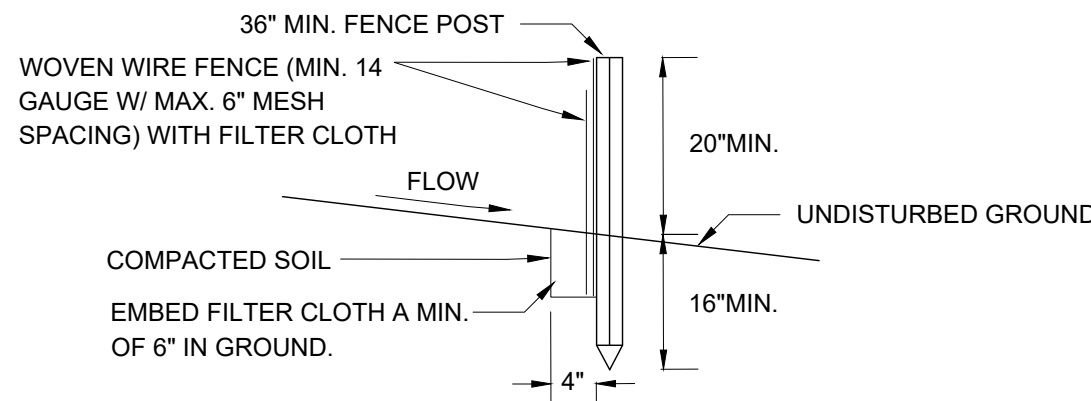
NTS



- NTS



36" MIN. FENCE POST



CONSTRUCTION SPECIFICATIONS

- NTS

FOR BID



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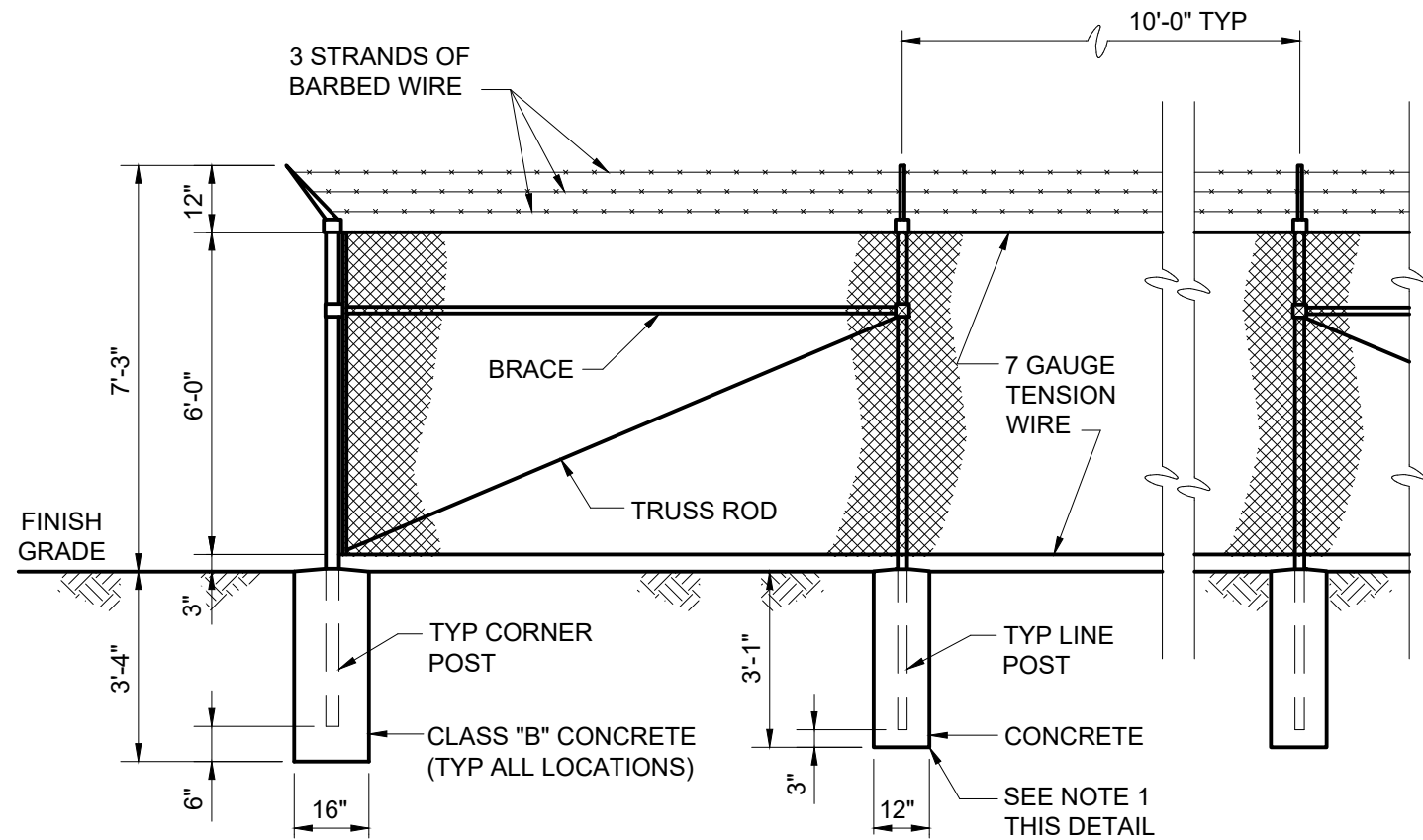
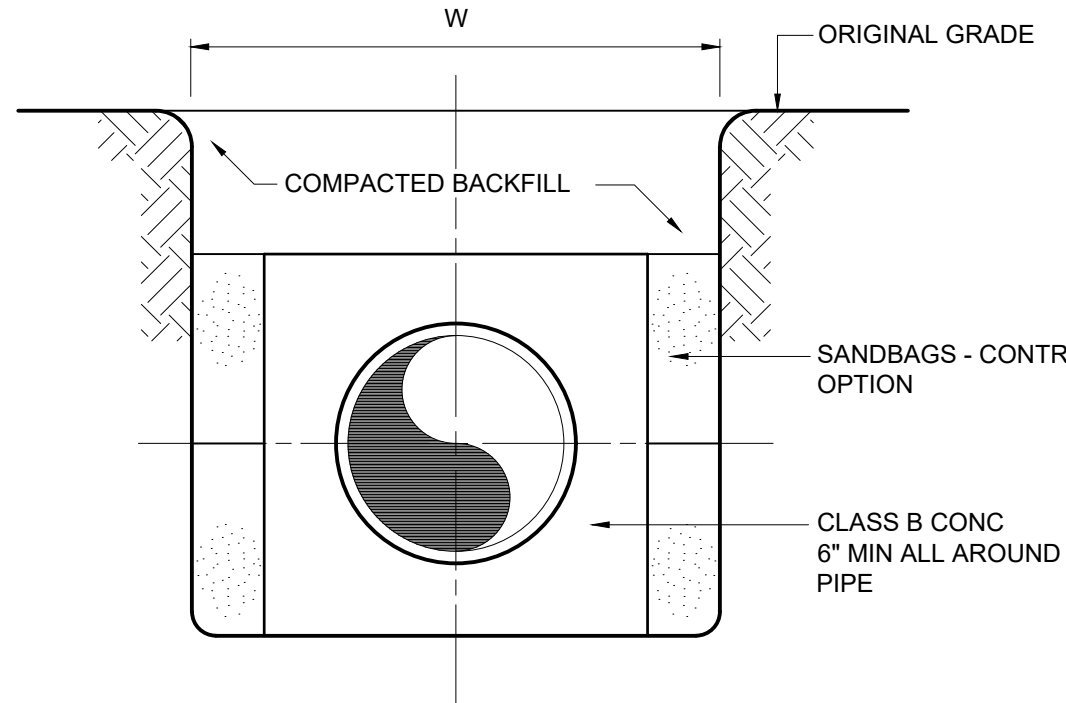
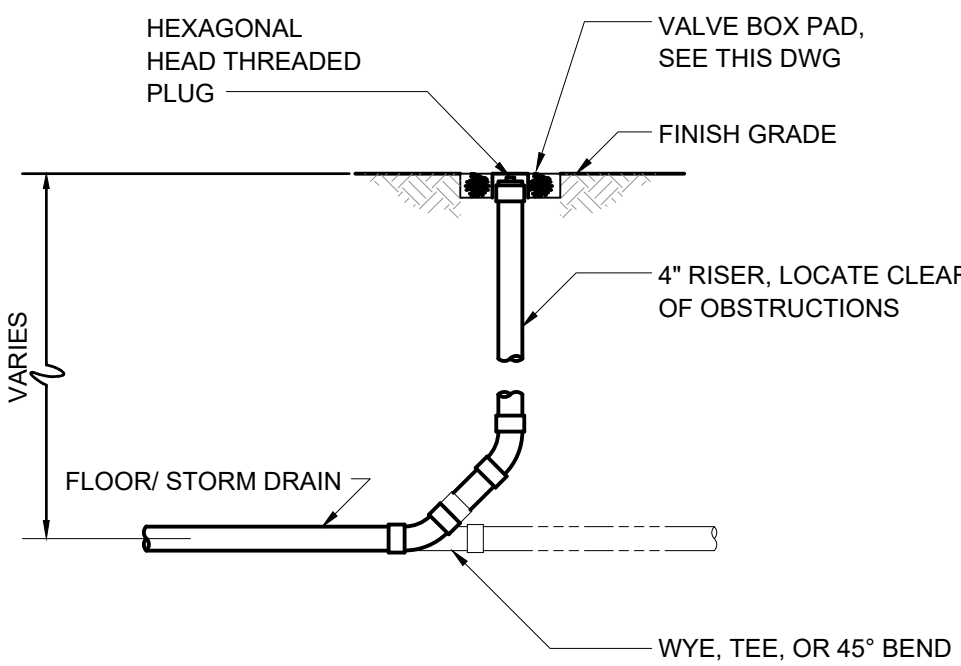
ROCKLAND COUNTY SEWER DISTRICT NO.1
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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

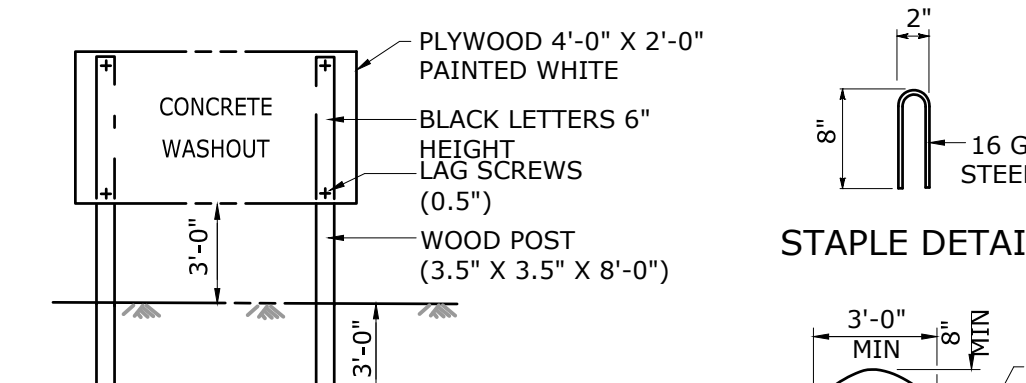
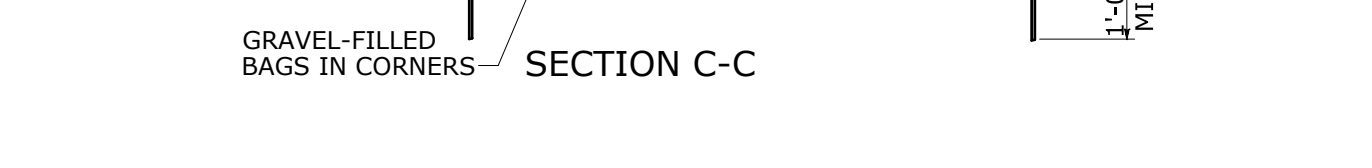
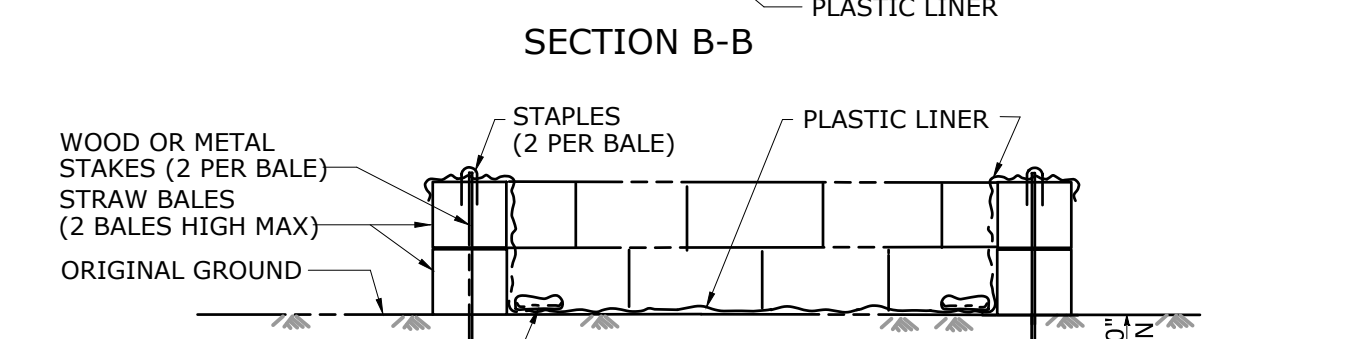
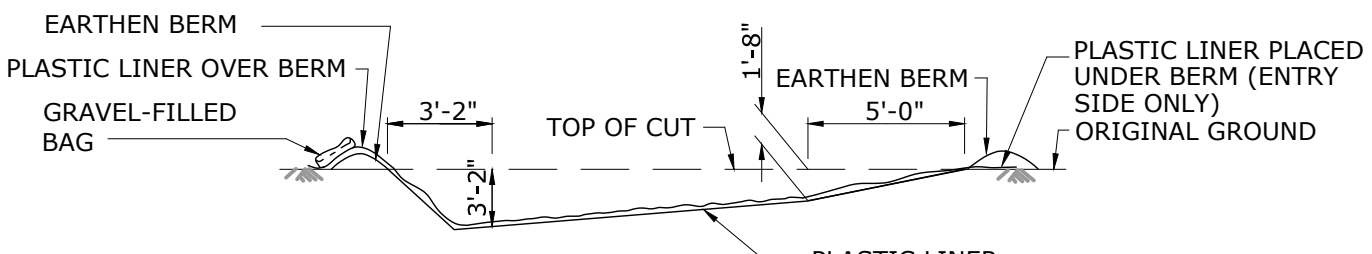
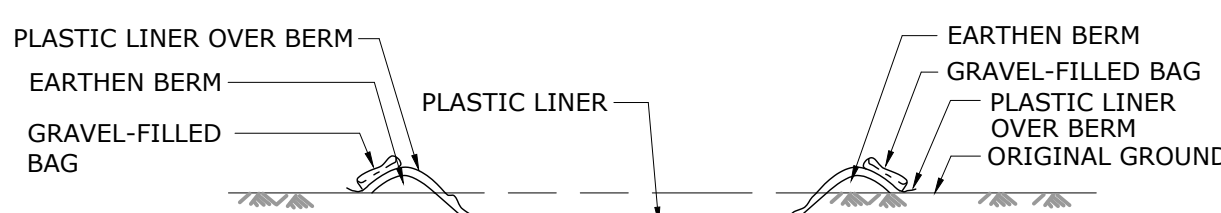
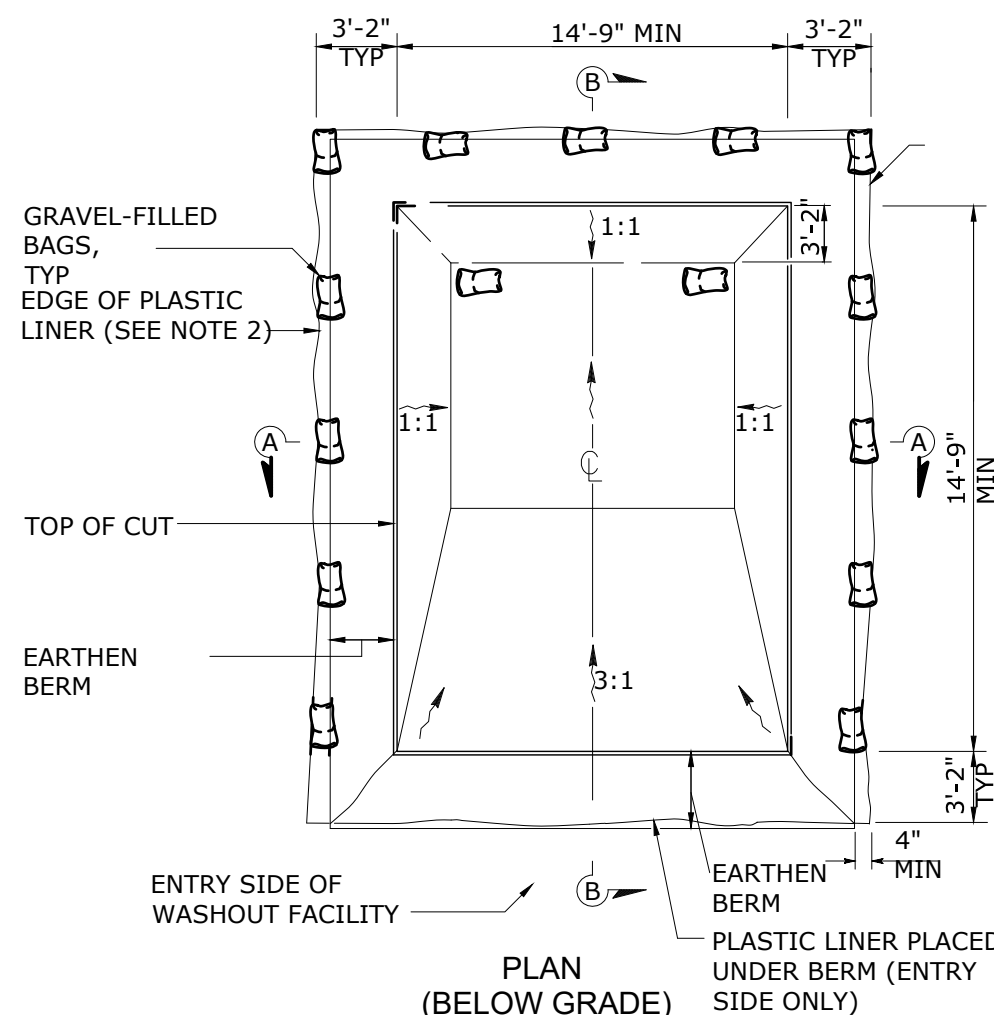
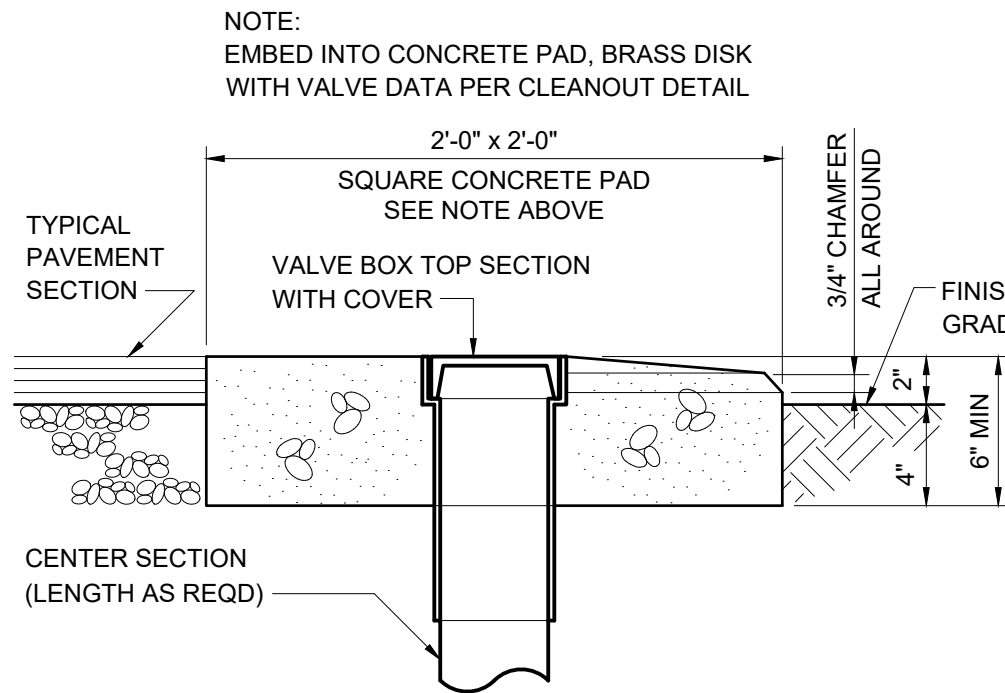
CIVIL
DETAILS
SHEET 1

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	C-05

File: C:\USERS\BCASULL\Documents\HAZEN AND SAWYER\0462-000_EDS AND CA FOR RCSD SCREENS REHAB\PROJECT FILES\01_DESIGN\DWG\C406 Saved by BCASULL Save date: 6/24/2024 6:50 PM
PLOT DATE: 6/24/2024 6:55 PM BY: BCASULL



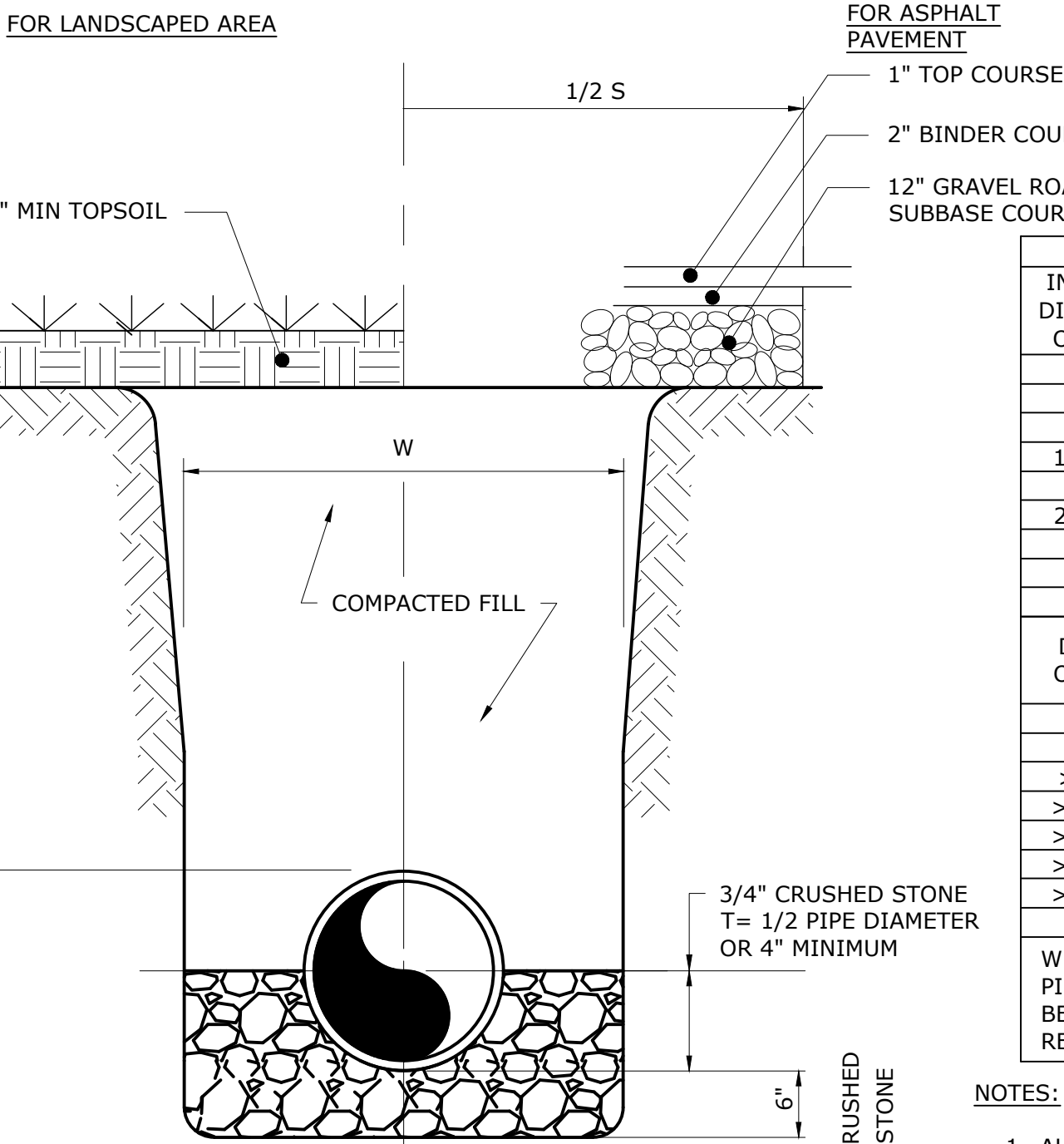
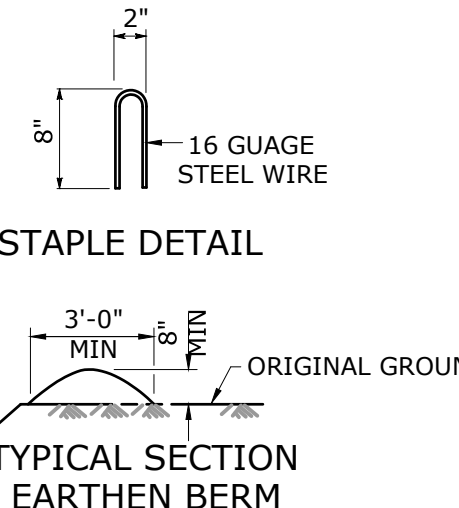
- NOTES:
- IF ROCK IS ENCOUNTERED WHEN SETTING POSTS, DRILL HOLES 4 INCHES LARGER IN DIAMETER THAN POSTS AND BACKFILL TO GRADE WITH CLASS "B" CONCRETE.



- NOTES:
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 32'-10" OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 - PLASTIC LINER SHALL BE ANCHORED WITH GRAVEL-FILLED BAGS FOR BELOW GRADE CONCRETE WASHOUT FACILITY.
 - THE CONTRACTOR SHALL PROVIDE WATERTIGHT, PORTABLE WASHOUT CONTAINERS IF SPACE CONSTRAINTS OF THE SITE DO NOT ALLOW THE USE OF THE DETAIL ABOVE. CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE CONTAINERS TO THE SITE AS REQUIRED FOR THEIR CONCRETE DELIVERIES AT NO ADDITIONAL COST TO THE OWNER.

CONCRETE WASHOUT

NTS



TRENCH EXCAVATION LIMITS		
INTERNAL DIAMETER OF PIPE	WIDTH OF TRENCH	W = MIN
	MAX	W = MIN
4"-6"	3'-9"	O.D. +20"
8"-10"	3'-9"	O.D. +20"
12"	3'-9"	O.D. +20"
14"-16"	4'-2"	O.D. +20"
18"	4'-4"	O.D. +20"
20", 21"	4'-8"	O.D. +20"
24"	4'-11"	O.D. +20"
27"	5'-9"	O.D. +24"
30"	6'-7"	O.D. +24"
DEPTH OF CUT	S	MAXIMUM PAVEMENT REPLACEMENT WIDTH
	S	
0-6'	S=W+4'	
>6-8'	S=W+8'	
>8-10'	S=W+12'	
>10-12'	S=W+16'	
>12-14'	S=W+20'	
>14-16'	S=W+24'	
>16-18'	S=W+28'	
>18'	S=W+32'	

W = TRENCH WIDTH AT BOTTOM OF PIPE. TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

NOTES:

- ALL TRENCHES SHALL BE BACKFILLED WITH GOOD TO EXCELLENT FILL AS PER NYCDP STANDARD SEWER AND WATER MAIN SPECIFICATIONS AND CONTRACT SPECIFICATIONS.

TYPICAL TRENCH

NTS

Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11TH FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

CIVIL
DETAILS
SHEET 2

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER:
C-06

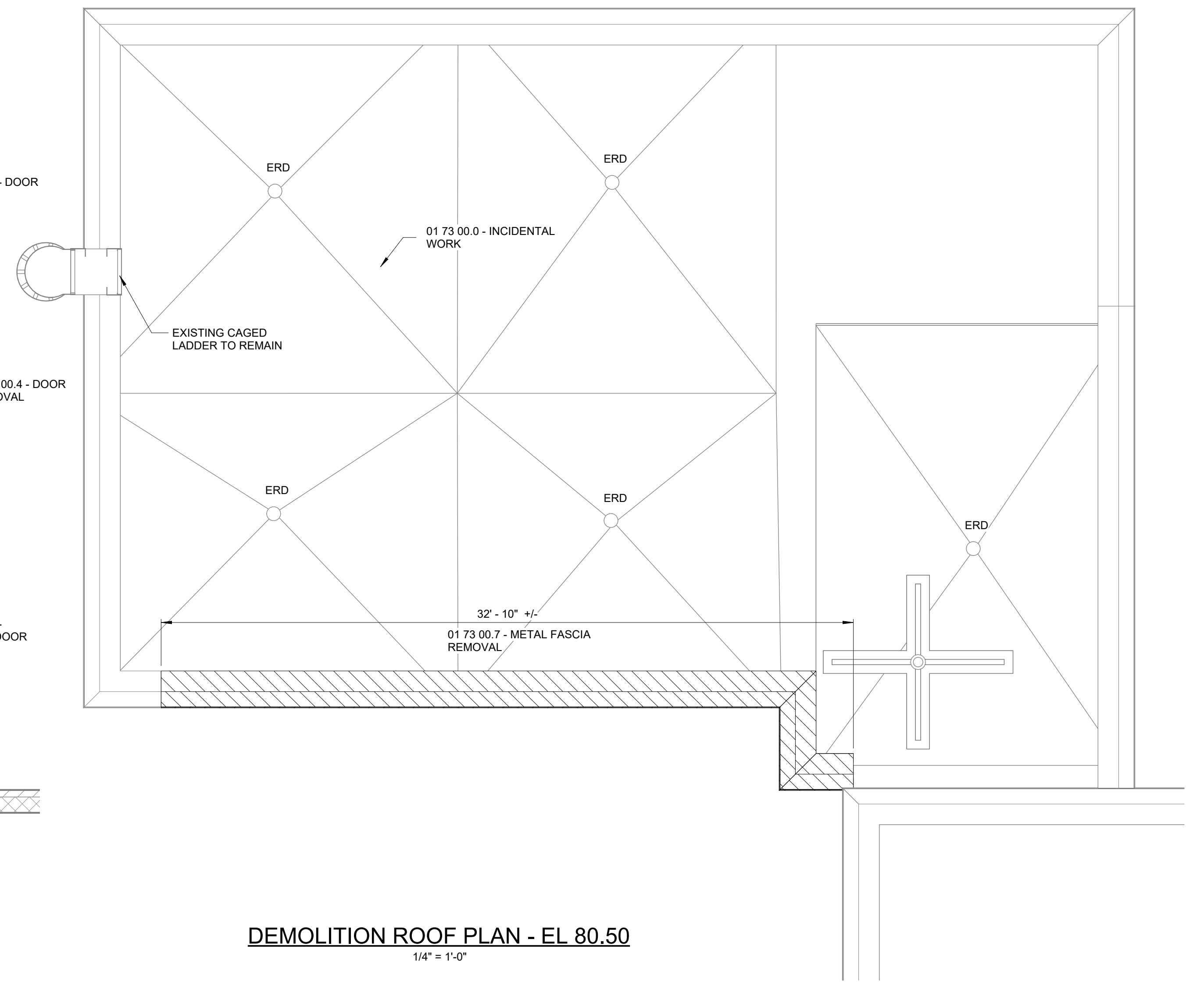
				PROJECT ENGINEER: R. FROST
				DESIGNED BY: J. TANNER
				DRAWN BY: J. TANNER
				CHECKED BY: D. SHEERAN
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE
REV	ISSUED FOR	DATE	BY	

				0	1/2"	1"
--	--	--	--	---	------	----

FOR BID




1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD. COORDINATE ALL REMOVAL WORK WITH PROPOSED WORK.
3. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING AREAS/EQUIPMENT NOT INDICATED TO BE DEMOLISHED OR REMOVED, ANY DAMAGE TO EXISTING AREA/EQUIPMENT NOT INDICATED TO BE DEMOLISHED OR REMOVE SHALL BE REPAIRED AT THE CONTRACT'S OWN EXPENSE






DEMOLITION ROOF PLAN - EL 80.50
1/4" = 1'-0"



LEGEND

	ITEM TO BE REMOVED
ERD	EXISTING ROOF DRAIN TO REMAIN

				PROJECT ENGINEER: R. FROST		FOR BID			ROCKLAND COUNTY SEWER DISTRICT NO.1 ORANGEBURG, NEW YORK		DATE: JUNE 2024	
				DESIGNED BY: J.MARTINEZ							HAZEN NO.: 90462-00	
				DRAWN BY: J.MARTINEZ							CONT NO.: RFB-RC-SWR-2023-	
				CHECKED BY: M. STALLONE							DRAWING NUMBER:	
0 BID 06/2024 PDS				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE						ARCHITECTURAL REMOVAL PLANS AT EL 70.50 AND EL 88.50 AND ELEVATION		DA-0
REV ISSUED FOR DATE BY								ORANGEBURG WASTEWATER TREATMENT PLANT SCREENING IMPROVEMENTS PROJECT				


1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 2020 BUILDING CODE OF NEW YORK STATE AND TOWN/VILLAGE OF ROCKLAND, NY.
2. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
3. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND ENGINEERS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS SHOWN BY THESE DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND OFF-ALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.
5. CONSTRUCTION SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS PERTAINING TO LABOR AND MATERIALS.
6. ALL NOTES HEREIN MENTIONED WITH THOSE ON THE VARIOUS DRAWINGS, SHALL APPLY TO ALL DRAWINGS.
7. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF RATED PARTITIONS AND STRUCTURES PARTICULARLY WHERE PENETRATED BY VARIOUS TRADES.

ACOUS	ACOUSTICAL	ELEC	ELECTRICAL	LAB	LABORATORY	S	SOUTH
ADMIN	ADMINISTRATION	ELEV	ELEVATOR	LAV	LAVATORY	SECT	SECTION
AFF	ABOVE FINISH FLOOR	EL	ELEVATION	LDR	LEADER	SQFT	SQUARE FEET
AL	ALUMINUM	ENGR	ENGINEER	LB	POUND	STRUCT	STRUCTURAL
&	AND	EQ	EQUAL	LIN FT	LINEAR FEET	SHT	SHEET
A	ARCHITECTURAL	EQUIP	EQUIPMENT	LPT	LOW POINT	SMS	SHEET METAL SCREWS
@	AT	ERD	EXISTING ROOF DRAIN	LSG	LAMINATED SAFETY GLASS	SLJ	SIDING LAP JOINT
B&B	BALLAD & BURLAPPED	EXST	EXISTING	MO	MASONRY OPENING	SIM	SIMILAR
BSMT	BASEMENT	EXP	EXPANSION	MAT'L	MATERIAL	SPECS	SPECIFICATIONS
BM	BEAM	EJ	EXPANSION JOINT	MAX	MAXIMUM	SQ	SQUARE
BLK	BLOCK	EXT	EXTERIOR	MAINT	MAINTENANCE	SST	STAINLESS STEEL
BD	BOARD	FD	FLOOR DRAIN	MFR	MANUFACTURER	STA	STATION
BOT	BOTTOM	FFE	FINISH FLOOR ELEVATION	MIN	MINIMUM	STD	STANDARD
BO	BOTTOM OF			N	NORTH	STL	STEEL
BC	BRICK COURSES	FRP	FIBER REINFORCED PLASTIC	OC	ON CENTER	STOR	STORAGE
BLDG	BUILDING	FWP	FIBROUS WOOD PANEL	OD	OUTSIDE DIAMETER	T	TREAD
CAB	CABINET	FIN	FINISH	OL	OCCUPANT LOAD	THK	THICKNESS
CIP	CAST IN PLACE	FIN FL	FINISH FLOOR	PART	PARTITION	TO	TOP OF
CLG	CEILING	FIX	FIXTURE	PCMU	PREFACED ARCHITECTURAL CONCRETE MASONRY UNIT	TOM	TOP OF MASONRY
C/S	CIVIL SANITARY	FE	FIRE EXTINGUISHER	PCP	PORTLAND CEMENT PLASTER	TOS	TOP OF SLAB
CLO	CLOSET	FL	FLOOR			TRM	TRANSITION MEMBRANE
CMU	CONCRETE MASONRY UNIT	GA	GAUGE	PCG	POLYCARBONATE GLASS	TSM	TRANSOM
		GALV	GALVANIZED	PJ	PREMOLDED JOINT	TWS	TRANSLUCENT WALL SYSTEM
CONC	CONCRETE	GC	GENERAL CONTRACTOR	PL	PLATE		
CB	CONCRETE BLOCK	GL	GLASS	PLUMB	PLUMBING	TYP	TYPICAL
CONT	CONTINUOUS	GFB	GROUND FACE BLOCK	PNL	PANEL	UL	UNDERWRITER'S LABORATORIES
CJ	CONTROL JOINT	GR	GRADE	PREP	PREPARATION/ PREPARE	UNO	UNLESS NOTED OTHERWISE
CNT	CONTROL	GYP	GYPSUM				
CO	CLEANOUT COORD COORDINATE	HC	HANDICAPPED	PSF	POUNDS PER SQUARE FOOT	UV	ULTRAVIOLET
				PTD	PAINTED	VAR	VARIES
CTSK	COUNTERSINK	HDN	HARDENER	PVC	POLYVINYL CHLORIDE	VERT	VERTICAL
CU	CUBIC	HDW	HARDWARE	PVF	POLYVINYL FLUORIDE	VIF	VERIFY IN FIELD
CL	CLEAR	HT	HEIGHT	QUAN	QUANTITY	VP	VISION PANEL
DTL	DETAIL	HPT	HIGH POINT	R	RISER	W	WEST
DIA	DIAMETER	HM	HOLLOW METAL	RAD	RADIUS	WC	WATER CLOSET
DIM	DIMENSION	HORIZ	HORIZONTAL	RCP	REFLECTED CEILING PLAN		
DR	DOOR	HR	HOUR	REF	REFERENCE	WD	WOOD
DN	DOWN	HVAC	HEATING, VENTILATION & AIR CONDITIONING	REINF	REINFORCING	WT	WEIGHT
DS	DOWNSPOUT					W/O	WITHOUT
		ID	INSIDE DIMENSION	REQ'D	REQUIRED		
DOW	DOWEL	IG	INSULATING GLASS	RD	ROOF DRAIN		
DWG	DRAWING						
		INFO	INFORMATION	RM	ROOM		
DF	DRINKING FOUNTAIN						
		INSUL	INSULATION	RO	ROUGH OPENING		
EA	EACH	INT	INTERIOR				
E	EAST	JC	JANITOR'S CLOSET				
EWC COOLER	ELECTRIC WATER	JT	JOINT				

DETAIL NO.		DETAIL TAG
DRAWING NO.		CENTER LINE
		ROOM NUMBER
		WINDOW TAG
		DOOR TAG
		LOUVER TAG
		REVISION TAG
		ELEVATION TAG
		SECTION TAG
		MASONRY WALL
		CONCRETE
		GROUT OR FILL
		METAL
		WOOD BLOCKING
		BRICK
		PLANTERS
		FE FIRE EXTINGUISHER
		FEC FIRE EXTINGUISHER CABINET
		CO ₂ CARBON DIOXIDE FIRE EXTINGUISHER
	RD	ROOF DRAIN
	EDR	EXISTING ROOF DRAIN
	F/D	FLOOR DRAIN
		SIGN LOCATION AND TYPE SYMBOL (DIRECTION OF ARROW ON EXIT SIGNS)

01 73 00.0 - INCIDENTAL WORK	THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING EXISTING MECHANICAL, ELECTRICAL, PLUMBING, OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, AND ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST.
01 73 00.1 - COORDINATION OF CONTRACTS	THE DEMOLITION WORK OF THIS CONTRACT SHALL BE COORDINATED W/ REMOVAL DWGS OF E & H CONTRACTS.
01 73 00.2 - PROTECT EXISTING	PROTECT EXISTING WORK TO REMAIN FROM DAMAGE. CAREFULLY REMOVE WORK AS INDICATED BY SAW CUT - MINIMIZE THE USE OF HAMMERING OR CHIPPING OF EXISTING.
01 73 00.3 - WALL REMOVAL	DEMOLISH WALLS AS INDICATED ON REMOVAL CONTRACT DRAWINGS. CLEAN, SCRAPE, AND CHIP OFF EXCESS MORTAR AT ADJACENT WALLS TO PROVIDE A SMOOTH FINISH. REFER TO NOTE, 04 22 23.2.1 - PREFACED CONCRETE MASONRY UNIT RESTORATION FOR PATCHING OF ADJACENT WALL. COORDINATE REMOVAL WITH PROPOSED WORK.
01 73 00.4 - DOOR REMOVAL	REMOVE EXISTING DOOR IN ITS ENTIRETY.
01 73 00.5 - ROLL-UP DOOR REMOVAL	REMOVE ROLL-UP DOOR AND ALL ITS APPARATUS. EXISTING ANGLE FRAME TO REMAIN.
01 73 00.6 - WINDOW REMOVAL	REMOVE EXISTING WINDOW SYSTEM IN ITS ENTIRETY. PROTECT BUILDING INTERIOR FROM WATER INFILTRATION UNTIL WORK OF THE PROPOSED WINDOW IS COMPLETED.
01 73 00.7 - METAL FASCIA REMOVAL	REMOVE EXISTING METAL FASCIA AS INDICATED ON CONTRACT DRAWINGS.
DIVISION 3	
03 33 00.0 - MOCK-UP SLAB	SET MOCK-UP WALLS MOCKUP ON 6-INCHES THICK CONCRETE PAD WITH 10 X 10 WWF OVER 6-INCHES GRAVEL BED. SIZE OF PAD TO BE 4-FEET WIDE BY 10-FEET LONG REFER TO NOTE 04 22 23.2.5 MOCK-UP EXTERIOR WALL SYSTEM.
03 35 00.0 - CONCRETE HARDENER	PROVIDE TYPE C FLOAT FINISH WITH NON-SLIP SHAKE ON AGGREGATE AND CONCRETE HARDENER FINISH THROUGHOUT ALL INTERIOR HORIZONTAL CONCRETE SURFACES.
03 35 00.1 - EXPOSED CONCRETE AND COLUMN FINISH	PROVIDE TYPE II GROUT CLEANED FINISH AT ALL INTERIOR CONCRETE AND CONCRETE COLUMNS THROUGHOUT ENTIRE PROJECT.
DIVISION 4	
04 01 20.0 - EXTERIOR BRICK CLEANING	CLEAN EACH FAÇADE FOR FULL HEIGHT AND WIDTH AS INDICATED ON CONTRACT DRAWINGS.
04 01 20.1 - INTERIOR PREFACED CONCRETE MASONRY UNIT CLEANING	UPON COMPLETION OF THE WORK ASSOCIATED WITH SECTION 04 22 23.23, CLEAN EACH WALLS ENCLOSED THE ROOM AND AREA OF WORK FOR FULL HEIGHT IN AREAS ASSOCIATED WITH THE WORK OF THE PROJECT.
04 05 19.0 - TOP OF MASONRY WALL	SECURE TOP OF ALL MASONRY WALLS TO UNDERSIDE OF STRUCTURE AS INDICATED ON STRUCTURAL DRAWINGS AND SECTION 04 05 19 - MASONRY ANCHORAGE AND REINFORCING
04 05 19.1 - EXTERIOR MASONRY WALL REINFORCING	REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCING. REFER TO SECTION 04 05 19 MASONRY ANCHORAGE AND REINFORCING AND STRUCTURAL DRAWING FOR LINTELS AND BOND BEAMS. ALL VERTICAL REINFORCING SHALL BE PLACED IN FULLY GROUTED CELLS.
04 05 19.3 - MASONRY WALL HORIZONTAL REINFORCEMENT	INSTALL CONTINUOUS HEAVY DUTY METAL TRUSS MESH REINFORCEMENT AT EVERY TWO BLOCK COURSES. PROVIDE METAL TRUSS MESH REINFORCEMENT IN STAINLESS STEEL FOR EXTERIOR WALLS AND IN GALVANIZED STEEL FOR INTERIOR WALLS.
04 05 19.4 - WEEP	PROVIDE WEEPS IN THE HEAD JOINTS OF THE FIRST COURSE OF MASONRY IMMEDIATELY ABOVE ALL CONCEALED FLASHING. SPACE WEEPS 16 INCHES ON CENTERS HORIZONTALLY. WEEPS SHALL BE SIZED IN ACCORDANCE WITH SECTION 04 05 23.
04 05 19.5 - CAVITY DRAINAGE MAT	PROVIDE CAVITY DRAINAGE MAT IN THICKNESS OF ACTUAL AIR SPACE MINUS TOLERANCES RECOMMENDED BY MANUFACTURER. AIR SPACE TO BE NO LESS THAN 1 INCH.
04 21 13.0 - FACE BRICK	PROVIDE MODULAR FACE BRICK IN RUNNING BOND OVER 4-INCH CAVITY WITH AIR AND VAPOR BARRIER APPLIED TO 12-INCH GFB BACKUP MASONRY PER NOTE 07 26 16.0 WALL SYSTEM VAPOR AND AIR BARRIERS. PROVIDE CAVITY DRAINAGE MAT PER NOTE 04 05 19.5 AND CAVITY WALL INSULATION PER NOTE 07 21 09.0 FOR FULL HEIGHT OF CAVITIES. PROVIDE WEEPS PER NOTE 04 05 19.4 BRICK CAVITY WALL REINFORCEMENT TO BE IN ACCORDANCE WITH SECTION 04 05 19.0 - MASONRY ANCHORAGE AND REINFORCING.
04 22 23.2.1 - MASONRY INFILL	PROVIDE MASONRY INFILL OF EXISTING CONDITIONS IN AREAS INDICATED ON CONTRACT DRAWINGS. ALL MASONRY INFILL SHALL BE CMU UNLESS NOTED OTHERWISE.
04 22 23.2.2 - EXTERIOR MASONRY BACKUP	ALL EXTERIOR MASONRY WALL SYSTEMS SHALL BE COMPRISED OF 12-INCH GFB BACKUP MASONRY. BACKUP UNIT MASONRY SHALL HAVE EXPOSED SIDES FINISHED AT THE INTERIOR FACE. EXTERIOR MASONRY WALLS SHALL BE ANCHORED BY REINFORCING INTO CONCRETE SLABS OR UNDERSIDES OF BEAMS IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SECTION 04 05 19 - MASONRY ANCHORAGE AND REINFORCING.
04 22 23.2.3 - CONCRETE MASONRY UNIT RESTORATION	IN AREAS DESIGNATED FOR DEMOLITION OF EXISTING CONCRETE MASONRY UNITS, IF DEMOLITION EXCEEDS THE AREAS INDICATED FOR REPLACEMENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REINFORCING AND ACCESSORIES FOR REPAIR OF SUCH CONDITIONS. CLEAN ALL WALLS WITHIN AREAS OF WORK AFTER MASONRY REPAIR IS COMPLETED. THE REPLACEMENT CONCRETE MASONRY UNITS SHALL MATCH THE SIZE, SHAPE, FINISH AND COLOR TO THE CONCRETE MASONRY UNITS.
04 22 23.2.4 - CONTROL JOINTS	PROVIDE BACKER ROD AND SEALANT AT ALL CONTROL JOINTS. BUTT AND CORNER JOINTS SHALL BE SEALED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONTROL JOINTS SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. HORIZONTAL JOINT REINFORCEMENT SHALL NOT CONTINUE THROUGH CONTROL JOINTS.
04 22 23.2.5 - MOCK-UP EXTERIOR WALL SYSTEM	REFER TO NOTE 03 33 00.1 MOCK-UP SLAB. SET MOCK-UP WALLS AT CENTER OF MOCK-UP SLAB. MOCK-UP CAVITY WALL BASE WILL BE TOP OF GRADE ELEV. TOP OF MOCK-UP SLAB. REFER TO DETAIL 5 DRAWING A-07 FOR EXTERIOR CAVITY WALL ASSEMBLY. REFER TO DETAIL 4 ON DRAWING A-09 FOR COPING ASSEMBLY AT TOP OF MOCKUP. HEIGHT OF MOCKUP TO BE 4-FEET. LENGTH OF MOCKUP TO BE 8-FEET. PROVIDE VERTICAL CONTROL JOINT AT CENTERLINE OF MOCK-UP WALL - REFER TO NOTE 04 22 23.2.4 CONTROL JOINTS. MOCK-UP OF EXTERIOR CAVITY WALL ASSEMBLY TO BE AS INDICATED ON THE DETAIL SECTIONS INDICATED ABOVE WITHOUT EXCEPTION.
DIVISION 5	
05 51 00.0 - METAL STAIR	PROVIDE METAL STAIR AND ASSOCIATED PLATFORM AND RAILINGS IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND SECTION 05 51 00 METAL STAIRS. PROVIDE TIE GUARDS AT ALL HORIZONTAL OPEN SIDE RAILINGS ADJOINING OPENINGS AND STAIR PLATFORMS ADJOINING CLEAR OPENINGS TO FLOORS OR SLABS BELOW.
05 52 00.0 - GUARDS AND RAILINGS	PROVIDE METAL GUARDS AND RAILINGS AT ALL STAIRS IN ACCORDANCE WITH SECTION 05 52 00 GUARDS AND RAILINGS. RAILINGS ALONG WALLS SHALL BE PROVIDED WITH WALL MOUNTED SUPPORT BRACKETS. FREE STANDING TYPE SHALL BE PROVIDED WITH WELDED ON BASE MOUNTING FLANGES. INSTALLATION SHALL UTILIZE ADHESIVE ANCHORS.
DIVISION 6	
06 10 00.0 - WOOD BLOCKING	ALL BLOCKING USED FOR ROOFING AND IN EXTERIOR WALLS TO BE PRESERVATIVE TREATED LUMBER.

07 21 00.3 - CAVITY WALL INSULATION	PROVIDE MINIMUM R-30 WALL INSULATION THROUGHOUT ENTIRE PERIMETER OF BACK-UP EXTERIOR MASONRY WALL SYSTEMS RECEIVING FACE BRICK PRIOR TO THE INSTALLATION OF INSULATION PROVIDE AN AIR AND VAPOR BARRIER IN ACCORDANCE WITH NOTE 07 26 16.0.
07 21 00.1 - ROOFING BOARD INSULATION	PROVIDE MINIMUM R-30 OF UNTAPERED ROOF INSULATION THROUGHOUT ROOF AREA WITH 1/4-INCH PER FOOT TAPERED INSULATION LAID ONTO TOP OF UNTAPERED INSULATION. INSTALL IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS OVER VAPOR RETARDER ONTO STRUCTURAL ROOF SYSTEM.
07 21 00.3 - PERIMETER INSULATION	INSTALL PERIMETER INSULATION AFTER CONCRETE FOUNDATION WORK HAS BEEN POURED AND ACCEPTABLE TO ENGINEER. PERIMETER INSULATION SHALL EXTEND DOWNWARD BELOW GRADE FOR A MINIMUM OF 2- FEET WITH MIN R-10 CONTINUOUS INSULATION. STAGGER JOINTS IN INSULATION AND BUTT INSULATION TIGHTLY TOGETHER. PROTECT PERIMETER INSULATION FROM DAMAGE DURING BACK FILLING WORK.
07 26 13.0 - WALL SYSTEM VAPOR AND AIR BARRIERS	PROVIDE VAPOR AND AIR BARRIERS THROUGHOUT ALL ABOVE GRADE WALL SURFACES. SEAL WALL SYSTEM VAPOR AND AIR BARRIERS TO ADJOINING TRANSITION MEMBRANES TO CREATE A COMPLETE VAPOR AND AIR BARRIER ENCLOSURE SYSTEM. APPLY AIR AND VAPOR BARRIER ON INTERIOR SIDE OF CAVITY FOR ALL EXTERIOR CAVITY WALL SYSTEMS. VAPOR AND AIR BARRIERS SHALL BE INSTALLED PRIOR TO INSTALLATION OF INSULATION AND CAN BE USED AS ADHESIVE TO SECURE INSULATION.
07 26 16.0 - SHEET MEMBRANE WATERPROOFING	PROVIDE SHEET MEMBRANE WATERPROOFING THROUGHOUT ALL FOUNDATION WALLS, GRADE BEAMS, AND SLABS INCLUDING BUT NOT LIMITED TO CONCRETE FOUNDATION CONDITIONS SUCH AS PIPE TRENCHES AND PENETRATIONS BELOW THE FLOOR SLAB AS A COMPLETE WATERPROOFING SYSTEM.
07 52 00.0 - MODIFIED BITUMINOUS MEMBRANE ROOFING	PROVIDE MODIFIED BITUMINOUS MEMBRANE ROOFING COLD APPLIED SYSTEM THROUGHOUT ALL ROOF AREAS INDICATED ON CONTRACT DRAWINGS. PROVIDE ONE HALF INCH COVER BOARD UNDER MEMBRANE AND OVER TAPERED INSULATION.
07 60 00.0 - FLASHING	PROVIDE FLASHING AS SPECIFIED IN SECTION 07 60 00 - SHEET METAL FLASHING AND TRIM SHALL EXTEND A MINIMUM OF 8" VERTICAL RETURN AT REAR OF ASSEMBLY. PROVIDE SEPARATION FOR ALL DISSIMILAR METALS.
07 70 00.0 - METAL FASCIA	PROVIDE PRE-FINISHED METAL FASCIA UNITS WITH MITERED WELDED CORNERS, CONCEALED SPLICE PLATES AND JOINT TRIM. RETAINER CLIPS, COMPRESSION PADS, FASTENERS, AND OTHER ACCESSORIES REQUIRED TO MAKE A COMPLETE INSTALLATION, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PRIOR TO THE INSTALLATION OF THE FASCIA, ALLOW FOR AND COORDINATE THE INSTALLATION OF VAPOR BARRIER AND TRANSITION MEMBRANE AS WORK OF SECTION 07 26 16.0 AND WORK OF 07 21 00.0 CAVITY WALL INSULATION. COLOR TO MATCH ADJACENT STRUCTURES.
07 70 00.1 - FALL PROTECTION SYSTEM	PROVIDE FALL ARREST ANCHORAGE CONNECTION DEVICE PER SECTION 07 70 00. REFER TO ROOF PLAN FOR LOCATIONS.
07 90 00.0 - BACKER ROD AND SEALANT	PROVIDE BACKER ROD AND SEALANT AROUND PERIMETER OF ALL OPENINGS, INCLUDING BUT NOT LIMITED TO DOORS, WINDOWS, TRANSLUCENT PANELS, AND LOUVERS. REFER TO SECTION 07 90 00 FOR JOINT FINISHES, SEALANTS AND CAULKING.
07 95 00.0 - EXTERIOR EXPANSION JOINTS	PROVIDE EXPANSION JOINT BETWEEN MASONRY MATERIALS. CLEAN AND PREPARE SURFACES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
07 95 00.1 - INTERIOR EXPANSION JOINT AT WALL AND CEILING	PROVIDE EXPANSION JOINT WITH ALUMINUM COVER FOR WALL AND CEILING CONDITION AT INTERIOR PERIMETER OF WALL SURFACES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE ALL TRANSITION FROM FLOOR TO WALL AND CEILING FOR FULL HEIGHT OF OPENING.
07 95 00.2 - INTERIOR EXPANSION JOINT AT FLOOR	PROVIDE EXPANSION JOINT WITH ALUMINUM COVER FOR FLOOR CONDITION AT OPENING. CLEAN AND PREPARE SURFACES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE ALL TRANSITION FROM FLOOR TO WALL FOR FULL CONDITION OF OPENING.
07 95 00.3 - EXPANSION JOINT AT ROOF	PROVIDE EXPANSION JOINT COMPRESSIBLE FILLER AT ROOF SLAB PRIOR TO THE INSTALLATION OF JOINT COVER.
DIVISION 8	
08 11 19.0 - STEEL DOORS AND FRAMES	PROVIDE STEEL DOORS AND FRAMES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. HARDWARE TO BE INSTALLED IN ACCORDANCE WITH 08 71 01- FINISH DOOR HARDWARE.
08 33 00.0 - HINGED FLOOD DOOR AND FRAME SYSTEM	PROVIDE FLOOD RESISTANT DOORS AND FRAME ASSEMBLY TO PREVENT ENTRY OF FLOOD WATER INTO THE PROTECTED SPACE. VARIED HEIGHT OF WATER HEAD TO THE DOORS IS DETERMINED BY THE ELEVATIONS OF THE FLOORS IN WHICH THE DOORS ARE LOCATED TO THE DESIGN FLOOD ELEVATION. COORDINATED DOORS, HARDWARE OPTIONS AND FLOOD HEIGHT WITH THE DOOR MANUFACTURER.
08 33 23.0 - OVERHEAD COILING DOORS	PROVIDE MOTOR OPERATED OVERHEAD COILING DOORS WITH INSULATED ALUMINUM CURTAIN SLATS, BOTTOM BAR WEATHERSTRIPPING, GALVANIZED STRUCTURAL STEEL GUIDES AND GALVANIZED DOOR HOODS. OVERHEAD COILING DOORS SHALL HAVE A THERMAL TRANSMITTANCE VALUE OF NO MORE THAN 0.125.
08 51 13.0 - ALUMINUM WINDOWS	PROVIDE ALUMINUM FRAMED WINDOWS WITH INSULATED GLASS IN ACCORDANCE WITH SECTION 08 51 13 ALUMINUM WINDOWS AND FRAMES AND SECTION 08 80 00 GLASS AND GLAZING. PROVIDE FLASHING IN ACCORDANCE WITH ARCHITECTURAL NOTE 07 60 00.0 FLASHING.
08 71 00.0 - FINISH DOOR HARDWARE	PROVIDE FINISH DOOR HARDWARE IN ACCORDANCE WITH SECTION 08 71 00.
08 71 00.0 - GLAZING	ALL EXTERIOR GLAZING SHALL BE IN ACCORDANCE WITH SECTION 08 80 00 - GLAZING.
08 95 43.0 - FLOOD VENTS	PROVIDE FLOOD VENTS AS INDICATED ON CONTRACT DRAWINGS. WORK SHALL BE IN ACCORDANCE WITH SECTION 08 95 43.
DIVISION 9	
09 90 00.0 - PAINTING	SCRAPE CLEAN AND PAINT EXISTING LINTELS TO RECEIVE NEW DOOR, NEW ROLL-UP DOOR AND NEW WINDOW. AT INTERIOR MASONRY IN-FILL WORK, MASONRY TO BE PAINTED TO MATCH ADJACENT COLOR.
09 97 00.0 - CONCRETE FLOOR TOPPING	PREPARE FLOOR FOR APPLICATION OF CONCRETE FLOOR TOPPING WITH NON-SLIP SURFACE FINISH. ALL VERTICAL BASES SHALL BE 6" HIGH AROUND ENTIRE PERIMETER OF ROOM.
DIVISION 10	
10 14 01.0 - IDENTIFYING DEVICES	PROVIDE IDENTIFYING SIGNS FOR ALL DOORS AND ROOMS, WARNING SIGNS, SAFETY SIGNS BUILDING SIGN AND SITE SIGNAGE AS INDICATED ON ARCHITECTURAL DRAWINGS AND SECTION 10 14 01.
10 44 16.0 - FIRE EXTINGUISHERS	PROVIDE WALL MOUNTED "DC" TYPE FIRE EXTINGUISHER IN MECHANICAL ROOMS, HVAC EQUIPMENT PLATFORMS AND PROCESS AREAS. PROVIDE "CO2" TYPE FOR ELECTRICAL ROOM AND CONTROL/ELECTRICAL INSTRUMENTATION ROOM UNLESS OTHERWISE NOTED. PROVIDE CORROSION RESISTANT MOUNTING BRACKETS FOR ALL FIRE EXTINGUISHERS. ALLOW FOR ONE FIRE EXTINGUISHER PER EVERY 75- FEET OF TRAVEL DISTANCE.
10 71 19.0 - REMOVABLE FLOOD BARRIERS	WHERE INDICATED ON DRAWINGS, PROVIDE REMOVABLE FLOOD BARRIER. COORDINATE WITH MANUFACTURER TO PROVIDE FLOOD BARRIERS IN WIDTHS AND HEIGHTS AS INDICATED ON CONTRACT DRAWINGS.
10 71 19.1 - FLOOD BARRIER STORAGE	WHERE INDICATED ON DRAWINGS, PROVIDE WALL-MOUNTED STORAGE RACKS FOR FLOOD BARRIERS WHEN NOT IN USED.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	J.MARTINEZ
				DRAWN BY:	J.MARTINEZ
				CHECKED BY:	M. STALLONE
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div> <div>0</div> <div>1/2"</div> <div>1"</div>  </div>
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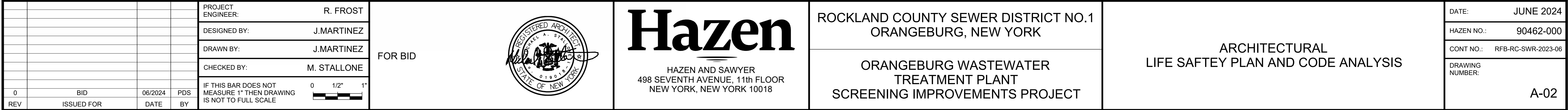
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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-01

EGRESS REQUIREMENTS			
SINGLE EXITS	CH 10 TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY FIRST STORY ABOVE OR BELOW GRADE PLAN – OCCUPANCY F (NS)	ALLOWED	PROPOSED
DOORS	CH 10 1010.1.1 SIZE OF DOORS	75'-0" MAX OL = 49 MAX	SEE PLAN OL = 2
		REQUIRED 32" MIN.	PROPOSED 36" MIN.
EXIT ACCESS TRAVEL DISTANCE	CH 10 TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE OCCUPANCY F-2 (NS)	ALLOWED	PROPOSED
ROOF ACCESS	CH 1015.6 – MECHANICAL EQUIPMENT, SYSTEM AND DEVICES EXCEPTION: GUARDS ARE NOT REQUIRED WHERE PERSONAL FALL ARREST ANCHORAGE CONNECTOR DEVICES THAT COMPLY WITH ANSI/ASSE Z 359.1 ARE INSTALLED.	REQUIRED YES	PROVIDED YES FALL ARREST DEVICES PROVIDED
LIFE SAFETY SYSTEM REQUIREMENTS			
CH 9		REQUIRED	PROPOSED
AUTOMATIC SPRINKLERS	CH 9 SECTION 903.2.4 EXCEPTION: GROUP F-2	NO	NO
FIRE ALARM	CH 9 SECTION 907.2.4 GROUP F	NO	NO
FIRE ALARM EXTINGUISHER	CH 9 SECTION 906	YES	YES (TYPE ABC)
CH 10		REQUIRED	PROPOSED
EMERGENCY LIGHTING	CH 10 SECTION 1008	YES	YES
EXIT SIGNS	CH 10 SECTION 1013	YES	YES
ACCESSIBILITY			
CH 11 SECTION 1103 SCOPING REQUIREMENTS		REQUIRED	PROPOSED
SECTION 1103.2.9 EQUIPMENT SPACES		NO	NO
STRUCTURAL AND SEISMIC DESIGN LOADS			
SEE STRUCTURAL DRAWINGS			
ENERGY CODE REQUIREMENTS			
2020 ENERGY CODE REQUIREMENTS			
ROCKLAND, NY		CLIMATE ZONE 5A	
TABLE C402.1.3		REQUIRED	PROPOSED
ROOF – INSULATION ENTIRELY ABOVE ROOF DECK		R-30 CI	R-30 CI
WALLS ABOVE GRADE - MASS		R-11.4CI	11.4 CI
SLAB ON GRADE – UNHEATED		R-10 FOR 24" BELOW	R-10 FOR 24" BELOW



1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES



EXISTING WALL 

PROPOSED WALL 

1/4" = 1'-0"



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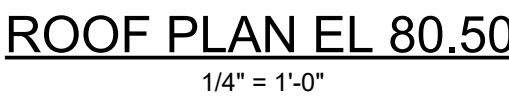
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ARCHITECTURAL FIRST FLOOR PLAN

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-03

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1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES



1/4" = 1'-0"

[illegible]

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REFER TO HVAC AND ELECTRICAL
DRAWINGS FOR PROPOSED
EQUIPMENT

T.O EXISTING
ROOF SLAB
EL 88.73

CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 74.29

NON-CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 73.29

T.O FLOOR SLAB
EL 70.50

DUCT PENETRATION - REFER
TO HVAC DRAWINGS

08 95 43 - FLOOD VENTS

08 51 13.0 - ALUMINUM
WINDOWS

08 95 43 - FLOOD VENTS

1 - NORTH ELEVATION

1/4" = 1'-0"

EXISTING MACHINE
SHOP

EXISTING MECHANICAL
SCREEN BUILDING

NOTE:

1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES

REFER TO HVAC AND
ELECTRICAL DRAWINGS FOR
PROPOSED EQUIPMENT

T.O EXISTING
ROOF SLAB
EL 88.73

ELECTRICAL EQUIPMENT -
SEE ELECTRICAL
DRAWINGS, TYP

CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 74.29

NON-CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 73.29

08 95 43 - FLOOD VENTS

08 33 23.0 - OVERHEAD
COILING DOORS

2 - EAST ELEVATION

1/4" = 1'-0"

REFER TO HVAC AND
ELECTRICAL DRAWINGS FOR
PROPOSED EQUIPMENT

TOP OF ROOF SLAB
EL 88.50

05 51 00.0 - METAL STAIR

CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 74.29

NON-CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 73.29

TOP OF FLOOR SLAB
EL 70.50

FLOOD PLANKS
WHEN DEPLOYED

04 21 13.0 - FACE BRICK

08 33 23.0 - OVERHEAD
COILING DOORS

3 - SOUTH ELEVATION

1/4" = 1'-0"

EXISTING CAGED
LADDER TO
REMAIN

08 51 13.0 - ALUMINUM
WINDOWS

TOP OF
FLOOR SLAB
EL 70.50

REFER TO HVAC AND
ELECTRICAL DRAWINGS FOR
PROPOSED EQUIPMENT

EXISTING MECHANICAL
SCREEN BUILDING

PROPOSED BUILDING
ADDITION

07 70 00.1 - FALL
PROTECTION SYSTEM

07 95 00.0 - EXTERIOR
EXPANSION JOINTS

07 70 00.1 - FALL
PROTECTION SYSTEM

07 70 00.0 - METAL FASCIA

TOP OF ROOF SLAB
EL 88.50

04 21 13.0 - FACE BRICK

08 51 13.0 - ALUMINUM
WINDOWS

05 51 00.0 - METAL STAIR

CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 74.29

TOP OF LANDING

NON-CRITICAL EQUIPMENT
FLOOD ELEVATION
EL 73.29

4 - WEST ELEVATION

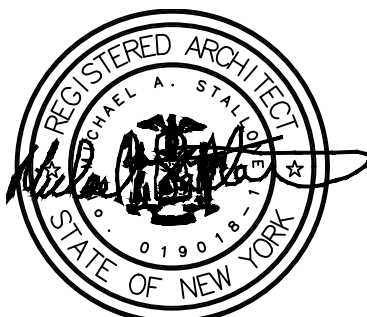
1/4" = 1'-0"

1/4" = 1'-0"

1 0 1 2 3 7

PROJECT ENGINEER: R. FROST
DESIGNED BY: J.MARTINEZ
DRAWN BY: J.MARTINEZ
CHECKED BY: M. STALLONE

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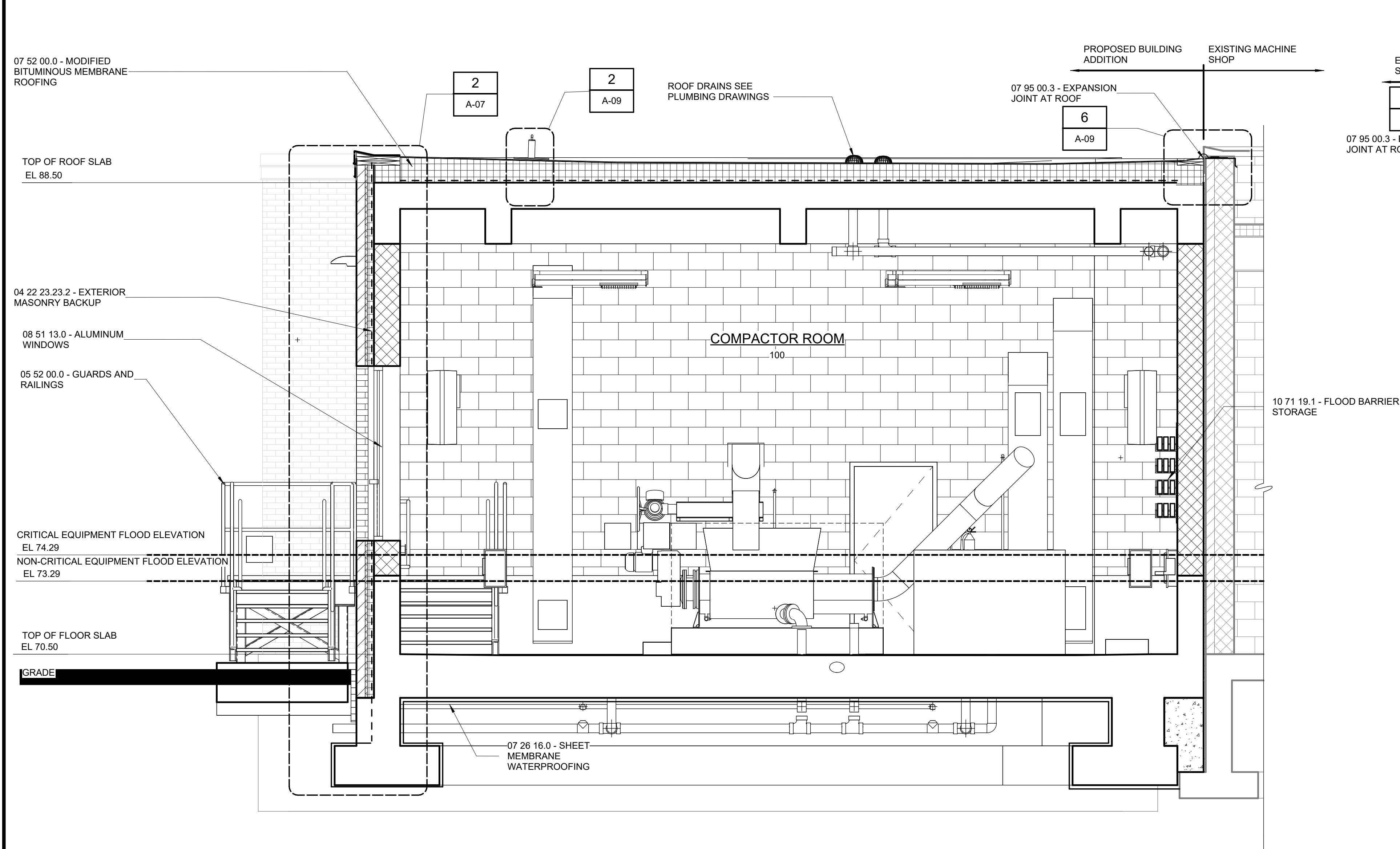
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ARCHITECTURAL
ELEVATIONS

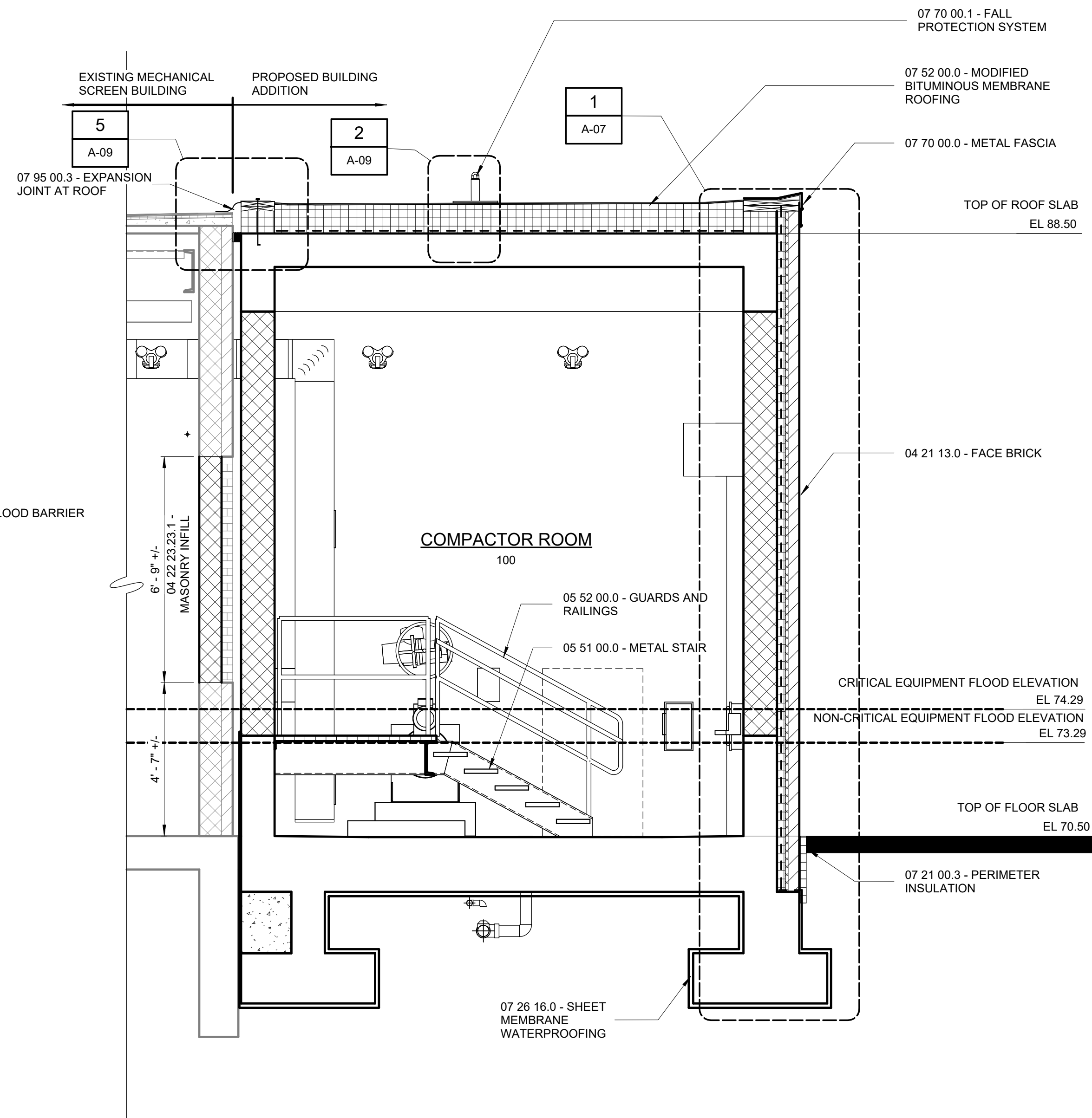
DATE: JUNE 2024
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CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER:

A-05

NOTE:
1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES



SECTION A
3/8" = 1'-0"



SECTION B
3/8" = 1'-0"

3/8" = 1'-0"

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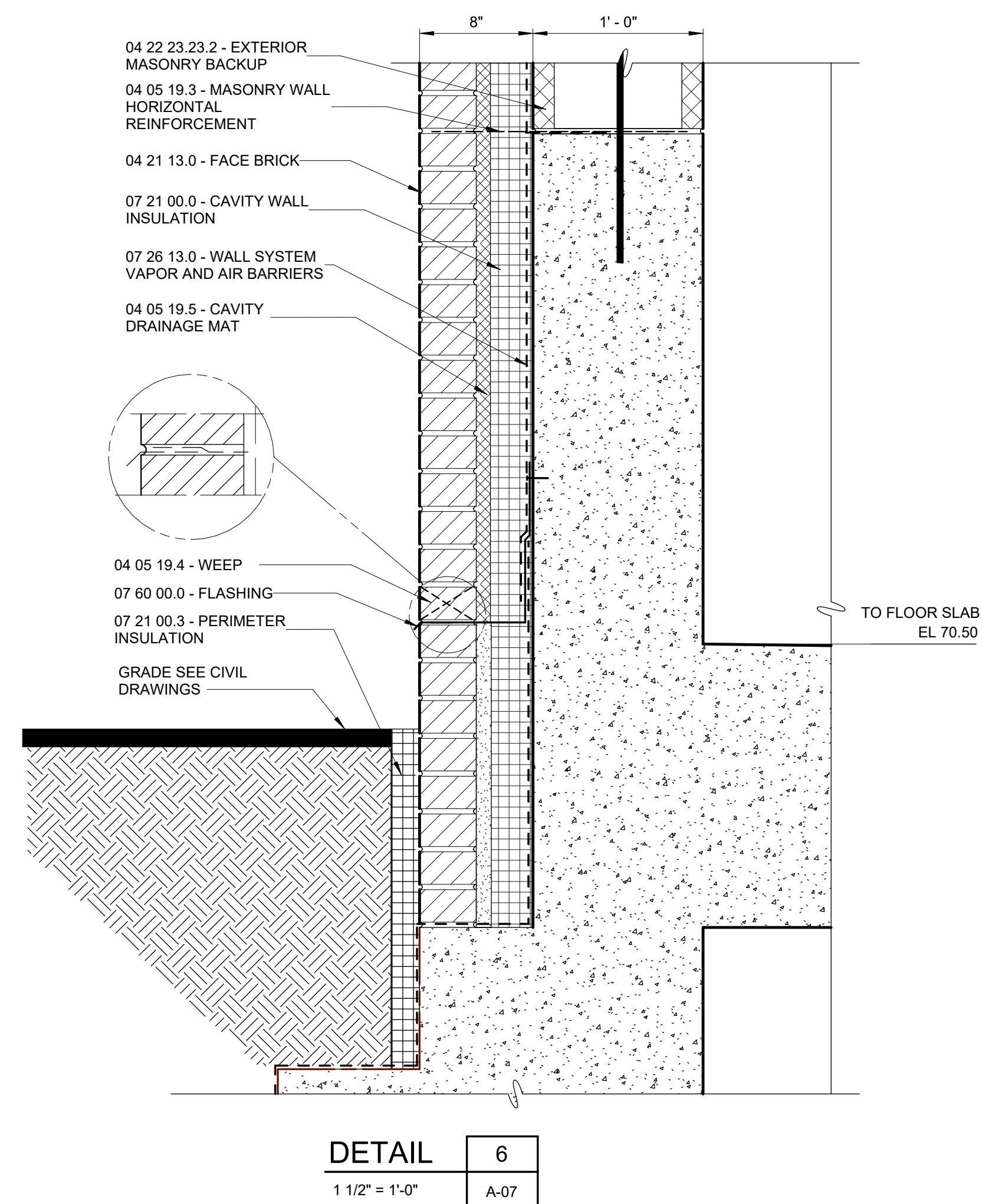
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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

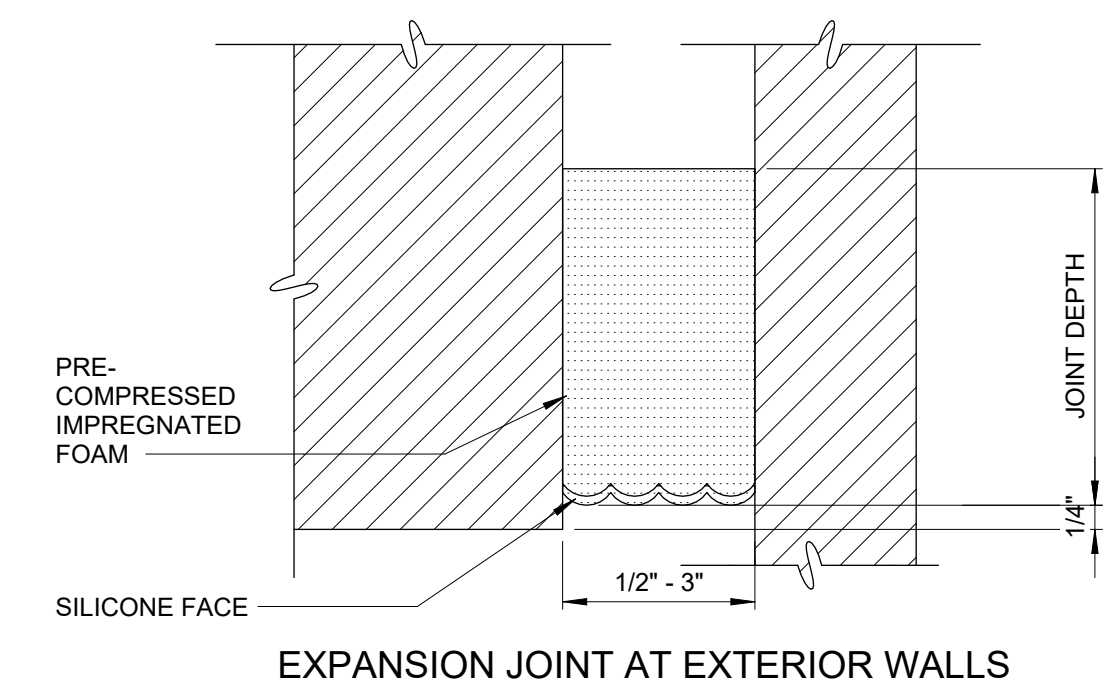
ARCHITECTURAL
SECTIONS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-06

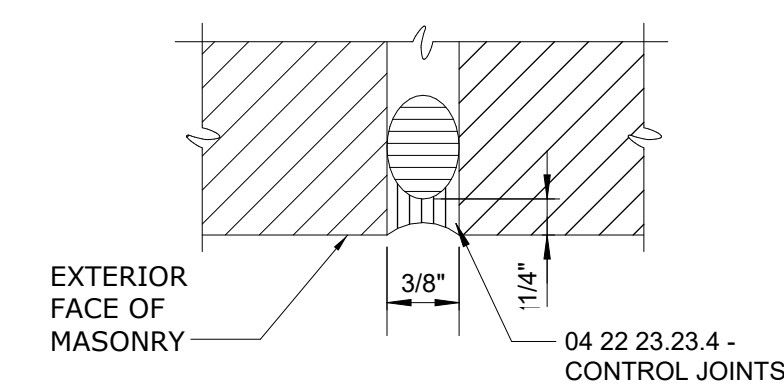


NOTE:

1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES



DETAIL	4
6" = 1'-0"	A-07




MASONRY CONTROL JOINTS	
DETAIL	5
12" = 1'-0"	A-07

SECTION 1
3/4" = 1'-0" A-06

SECTION 2
3/4" = 1'-0" A-06

0	BID	06/2024	PDS	
REV	ISSUED FOR	DATE	BY	

PROJECT ENGINEER:	R. FROST	
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DRAWN BY:	J.MARTINEZ	
CHECKED BY:	M. STALLONE	
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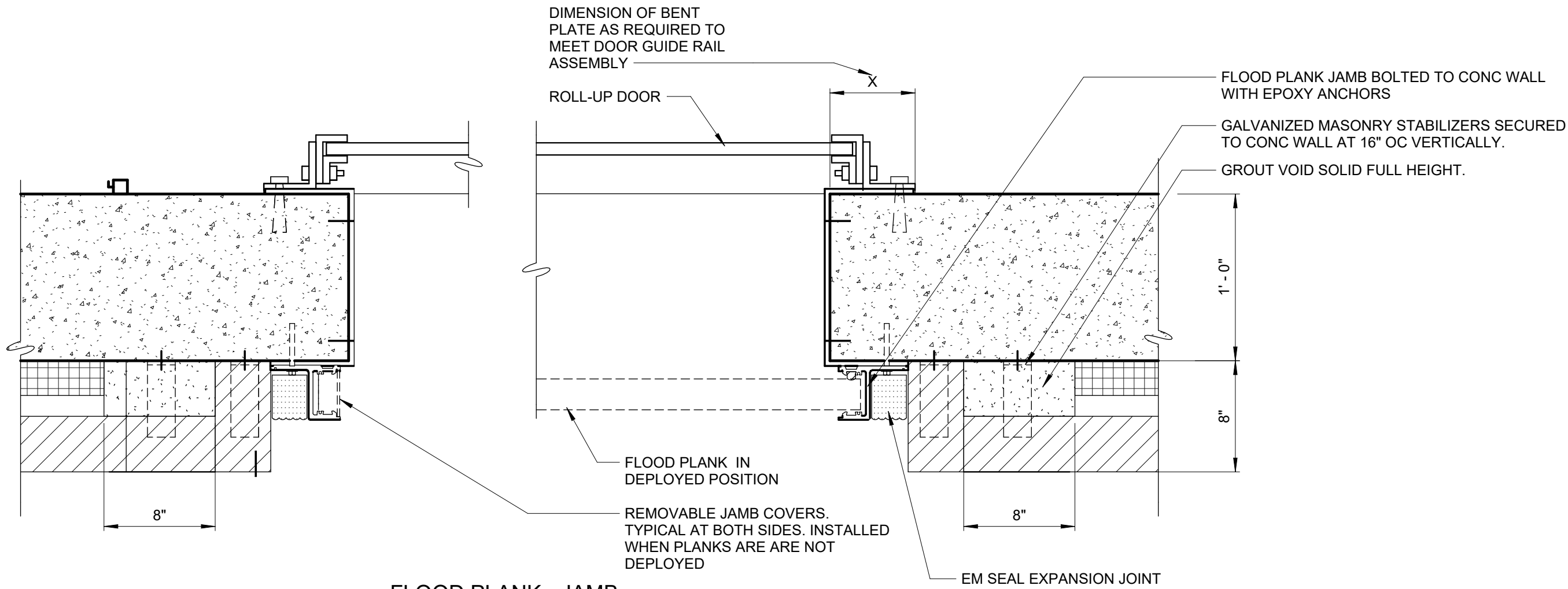
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ARCHITECTURAL WALL SECTIONS AND DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-07

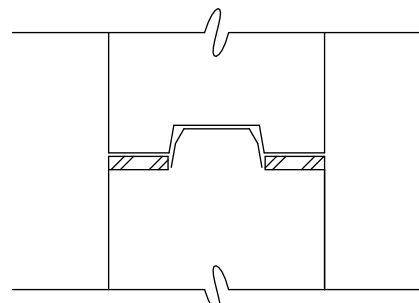
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NOTE:
1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES



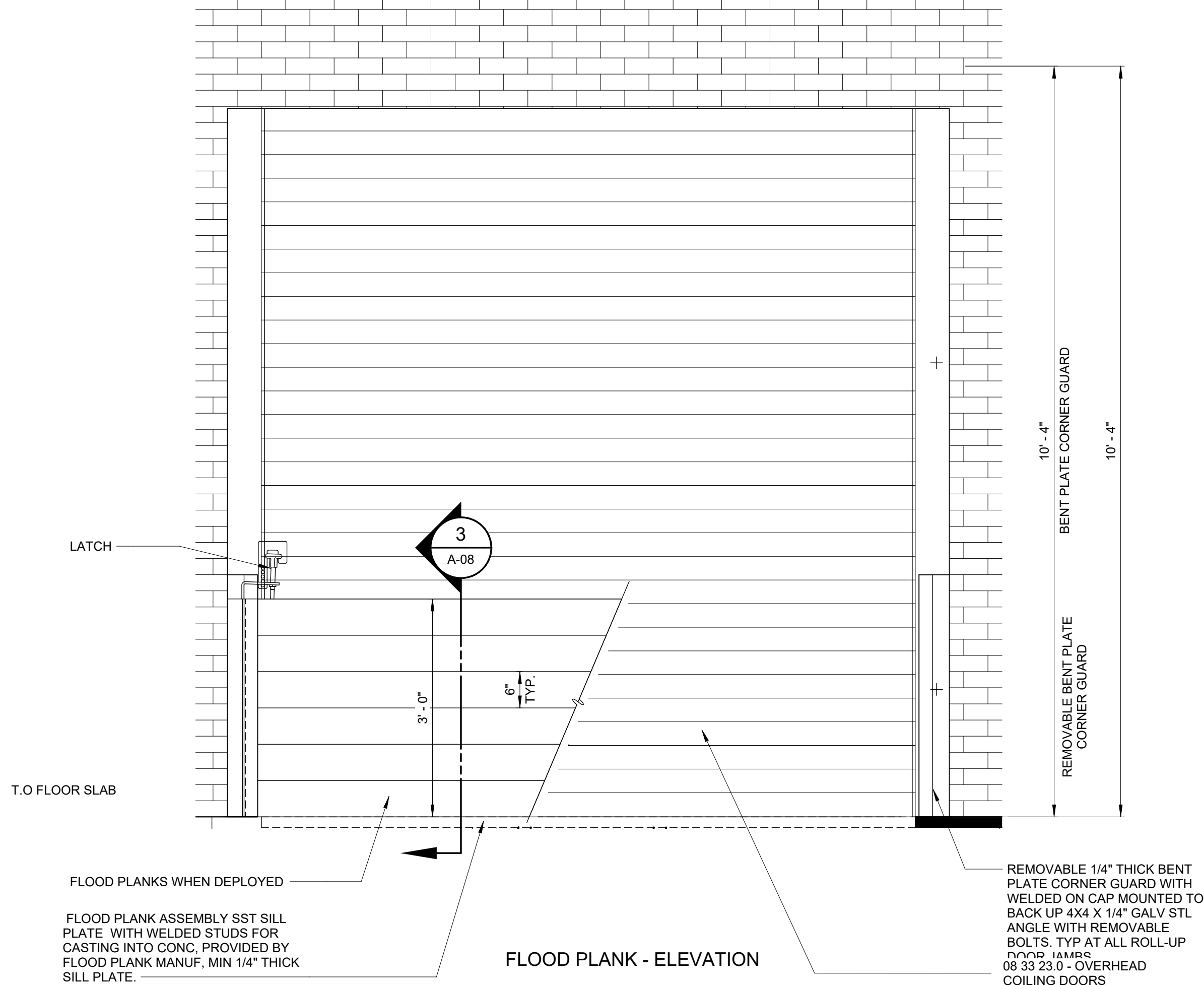
FLOOD PLANK - JAMB

DETAIL	6
1 1/2" = 1'-0"	A-03



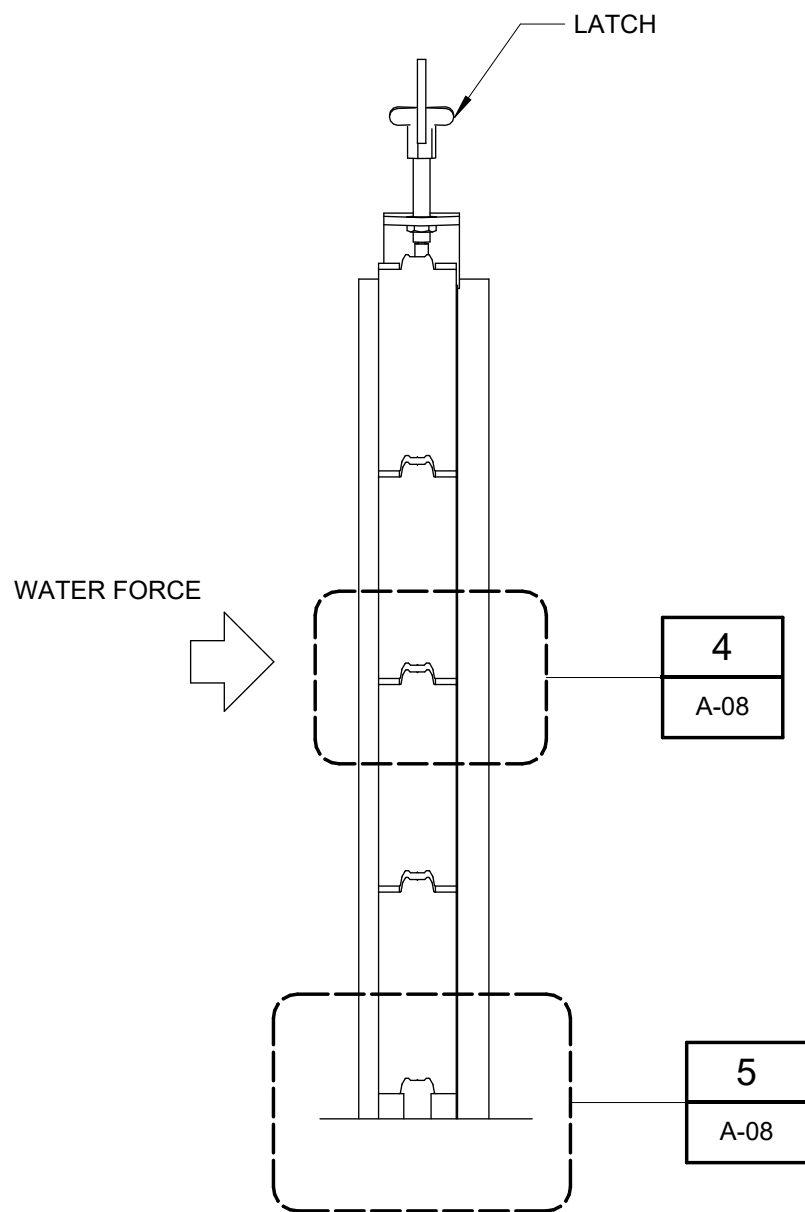
FLOOD PLANK INTERMEDIATE DETAIL

DETAIL	4
6" = 1'-0"	A-08



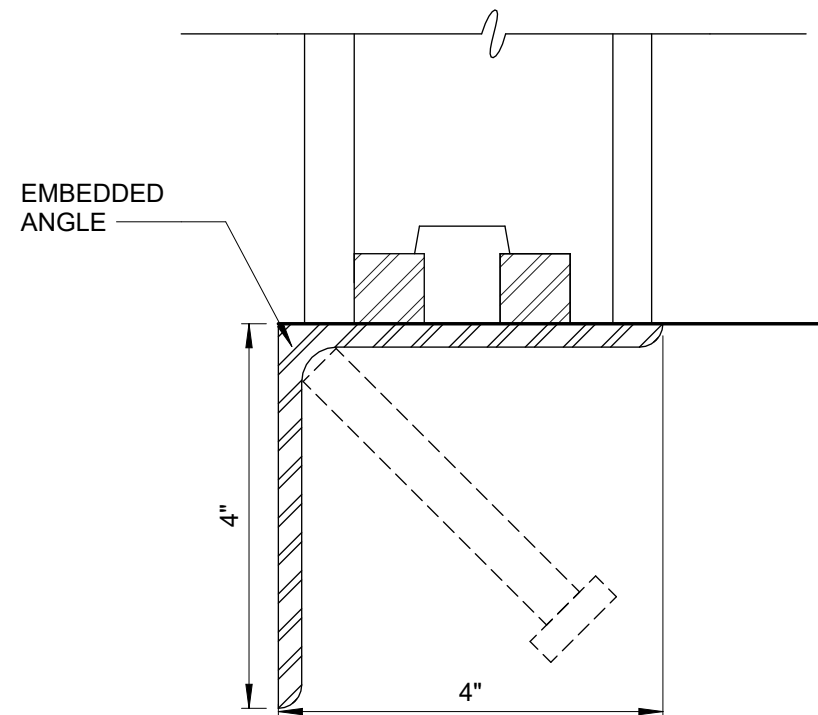
FLOOD PLANK - ELEVATION

DETAIL	1
3/4" = 1'-0"	A-05



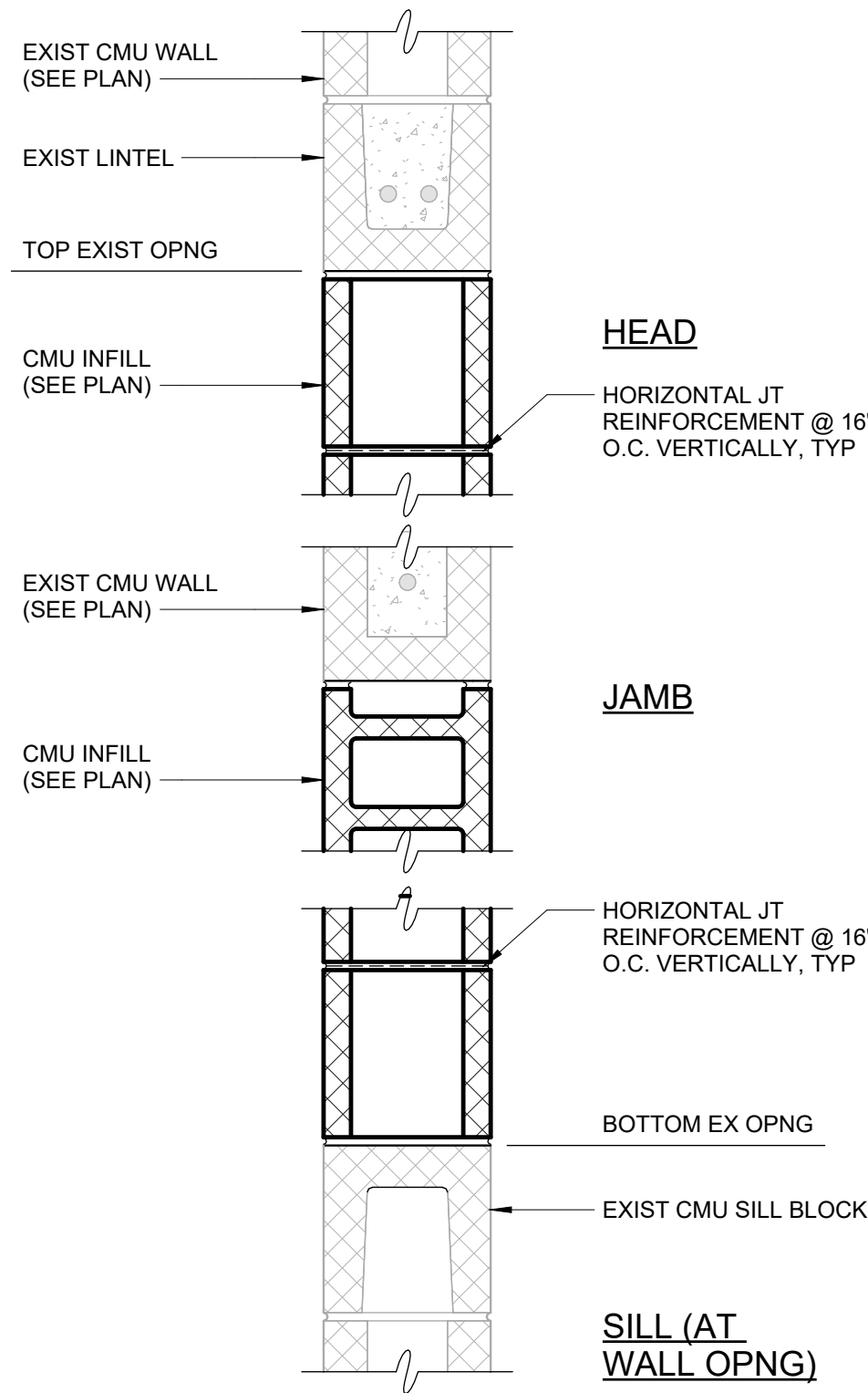
SECTION 3

1 1/2" = 1'-0"



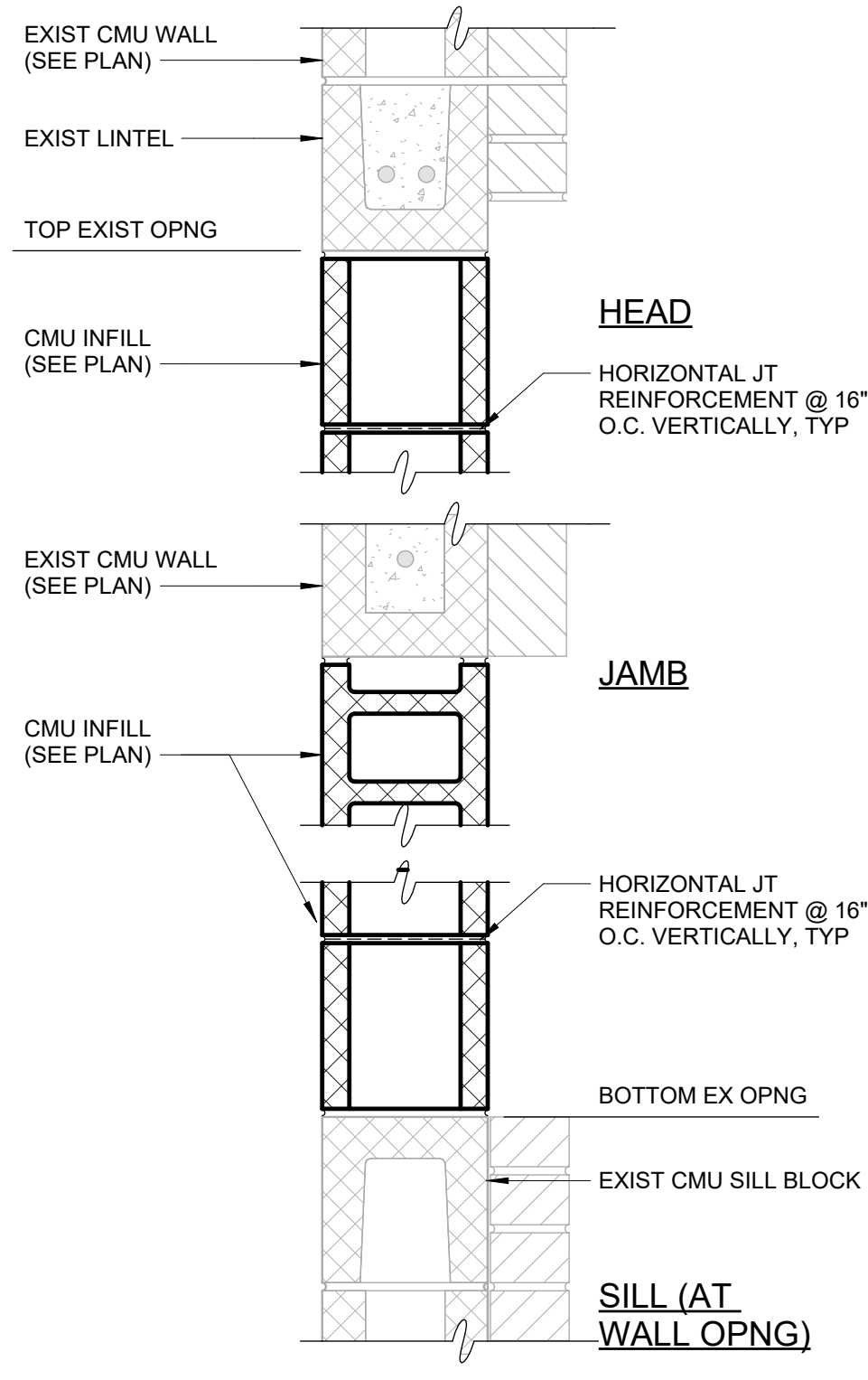
FLOOD PLANK SILL DETAIL

DETAIL	5
6" = 1'-0"	A-08



CMU INFILL IN EXISTING WALL OPENING

DETAIL	8
1 1/2" = 1'-0"	



CMU INFILL IN EXISTING WALL OPENING

DETAIL	7
1 1/2" = 1'-0"	

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0	BID	06/2024	PDS
1	ISSUED FOR		

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. MARTINEZ
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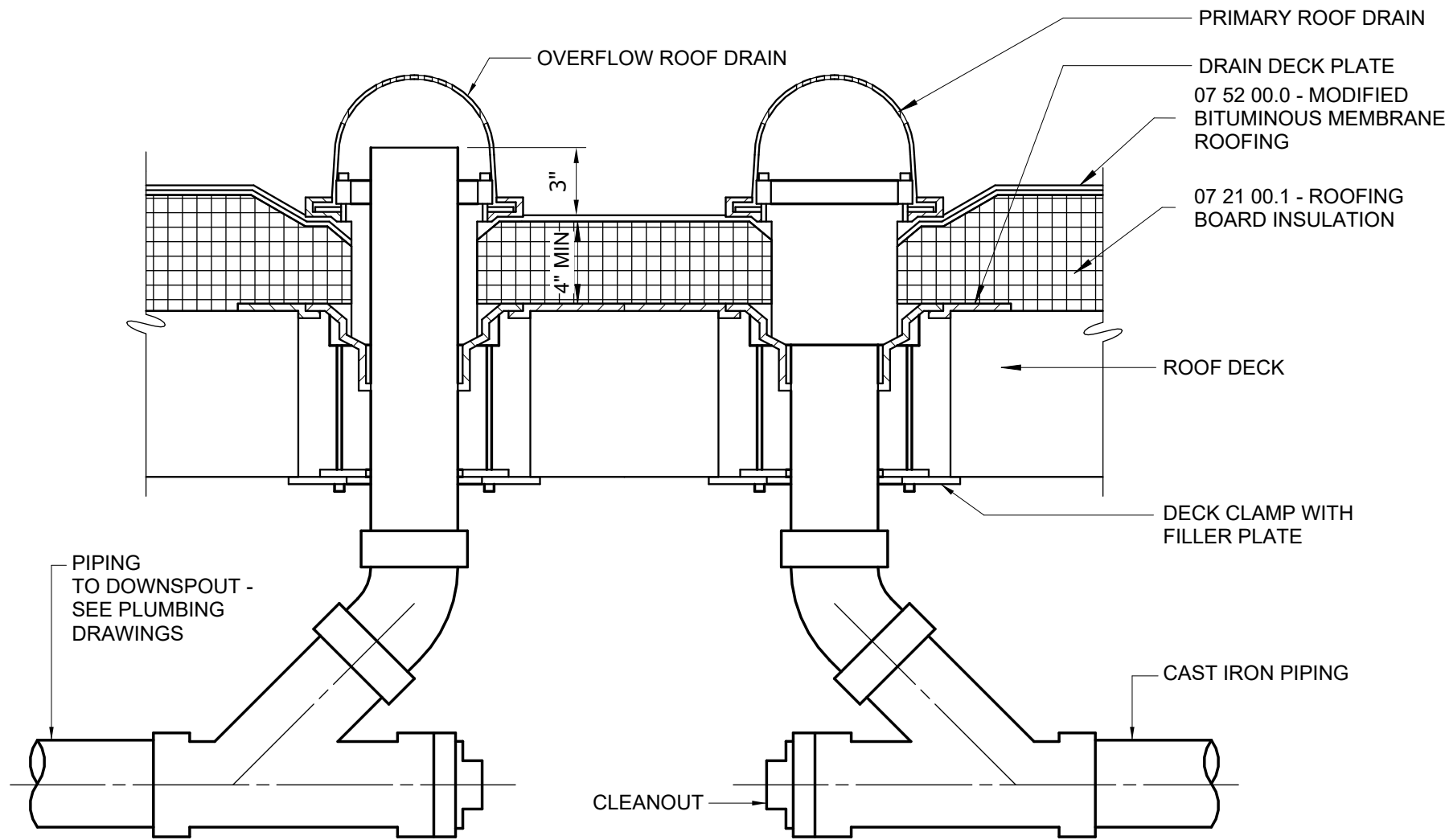
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ARCHITECTURAL
DETAILS

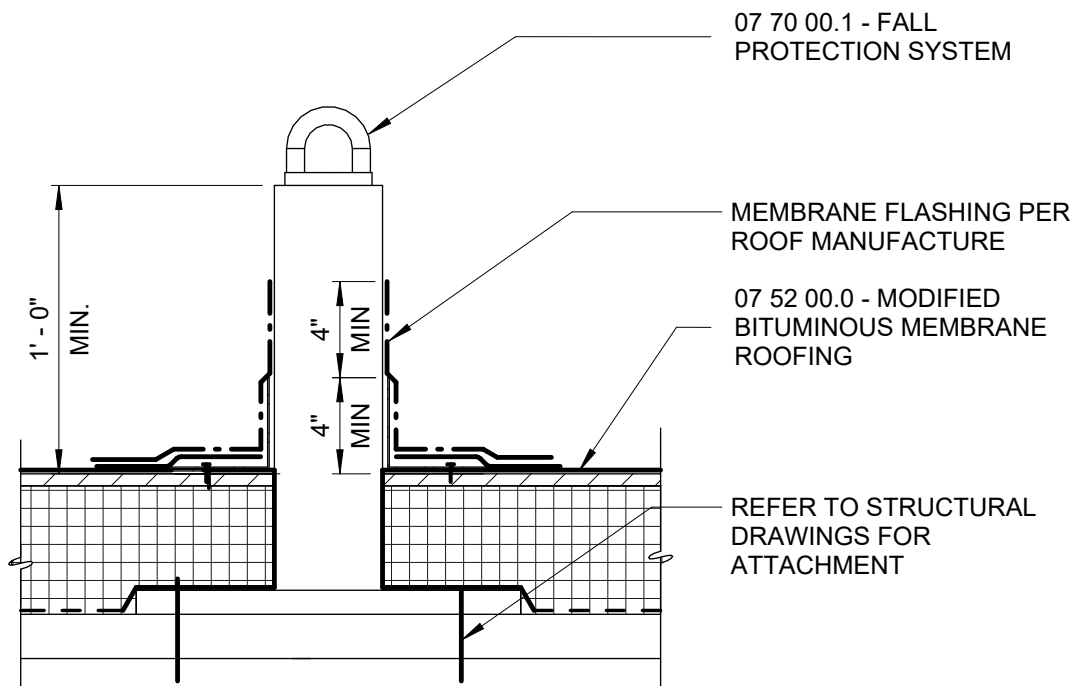
DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-08

NOTE:
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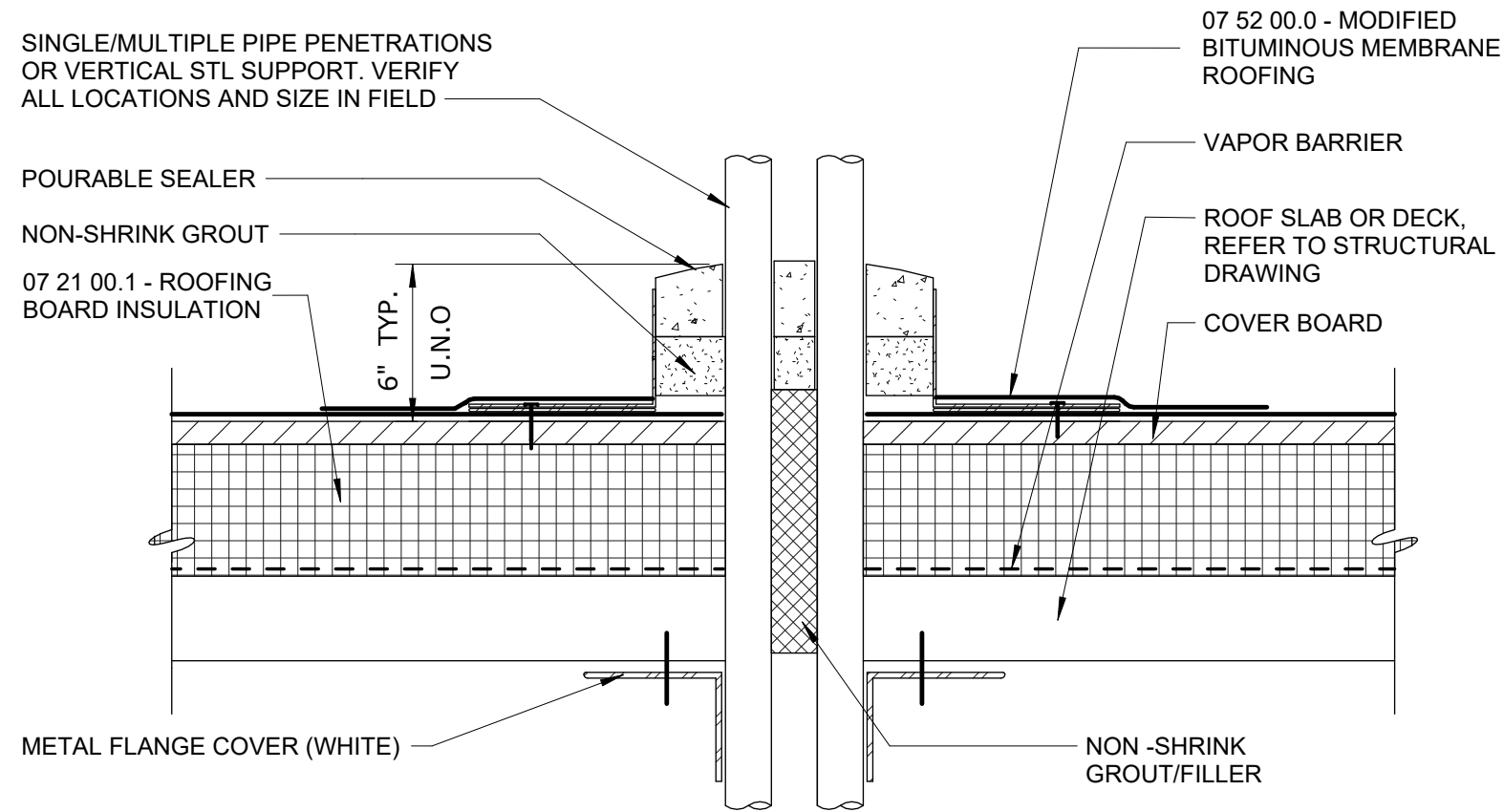
ROOF DRAIN

DETAIL	1
1 1/2" = 1'-0"	A-04



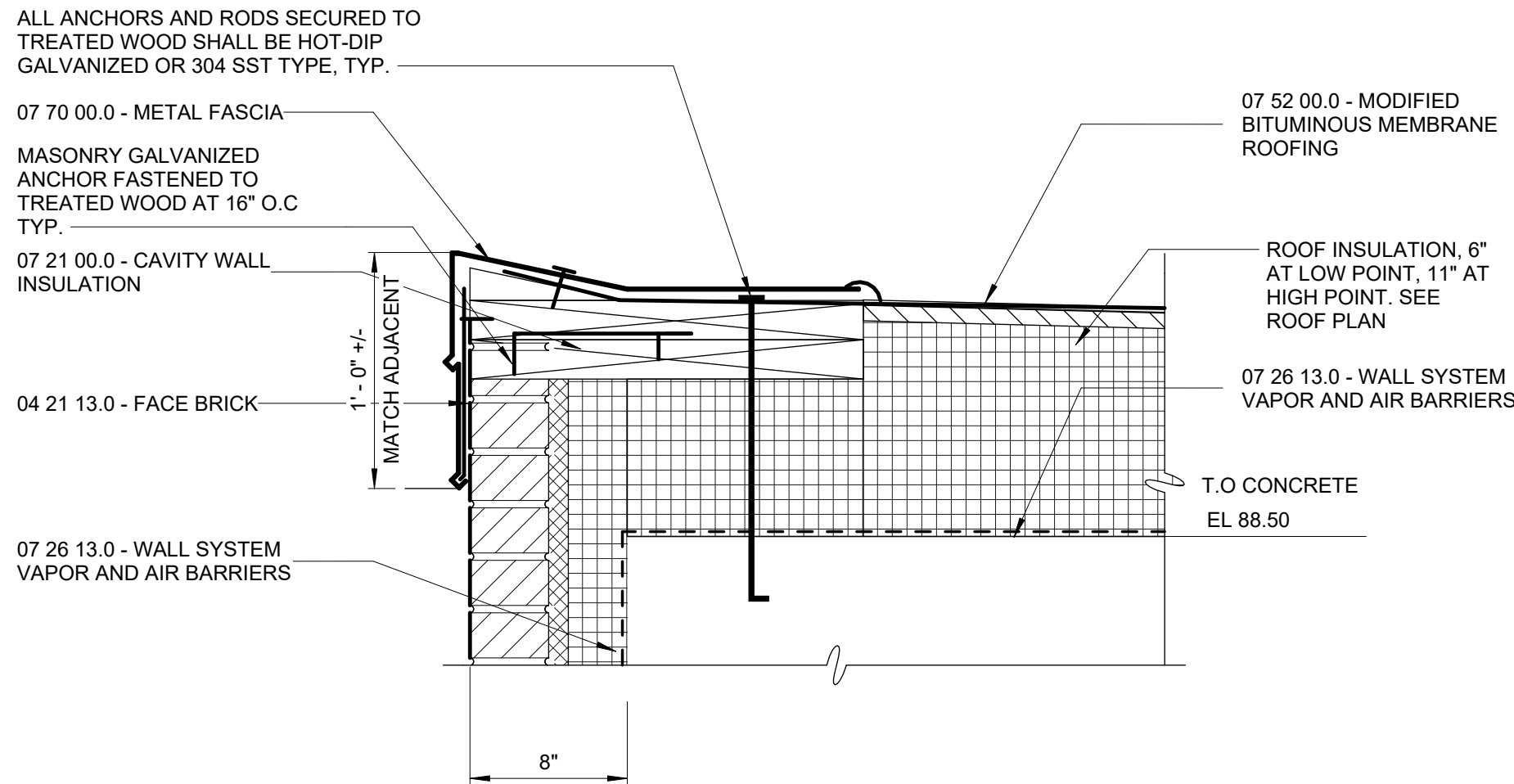
FALL PROTECTION

DETAIL	2
1 1/2" = 1'-0"	A-06



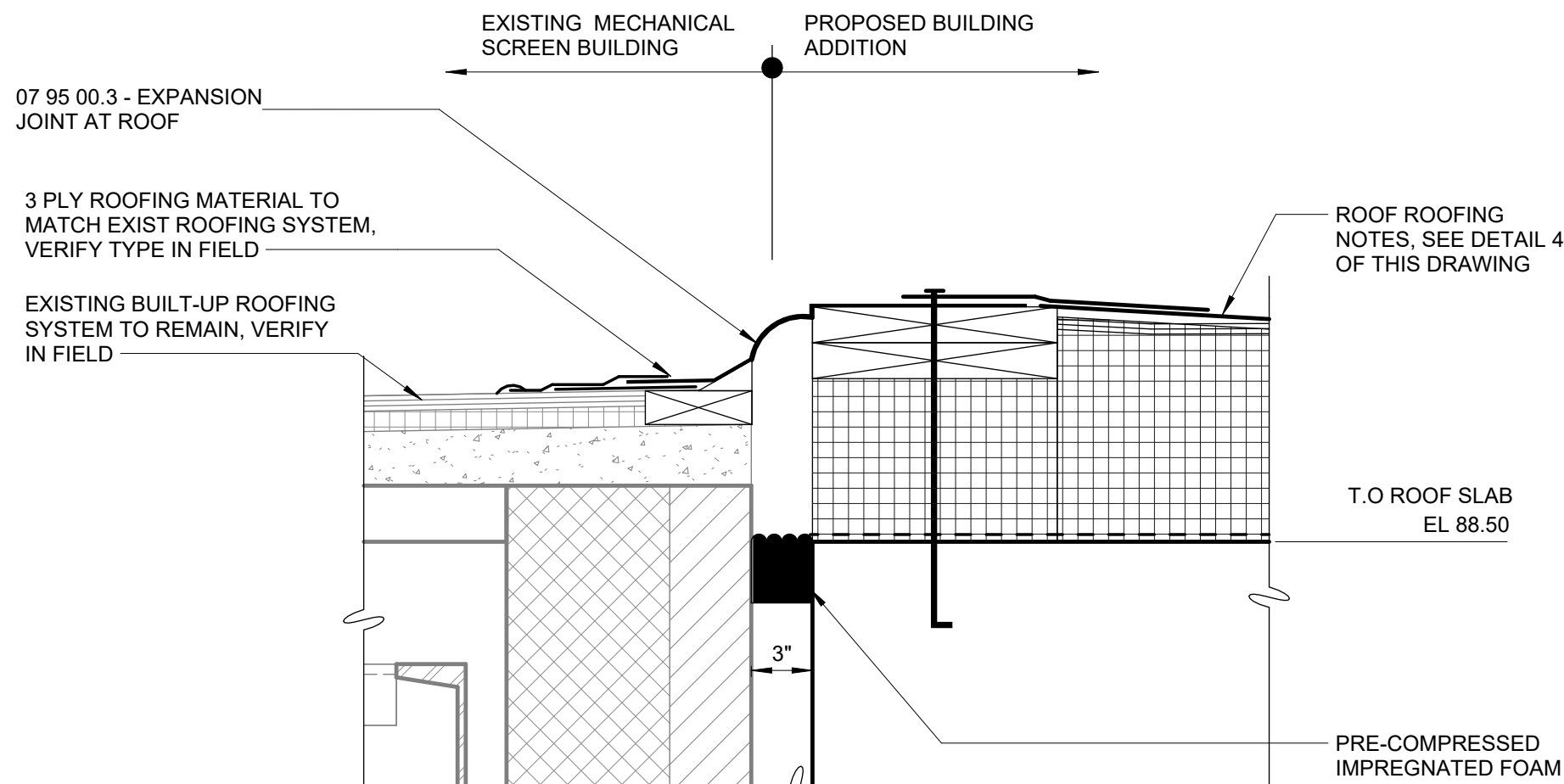
POURABLE SEALER POCKET

DETAIL	3
3" = 1'-0"	A-09



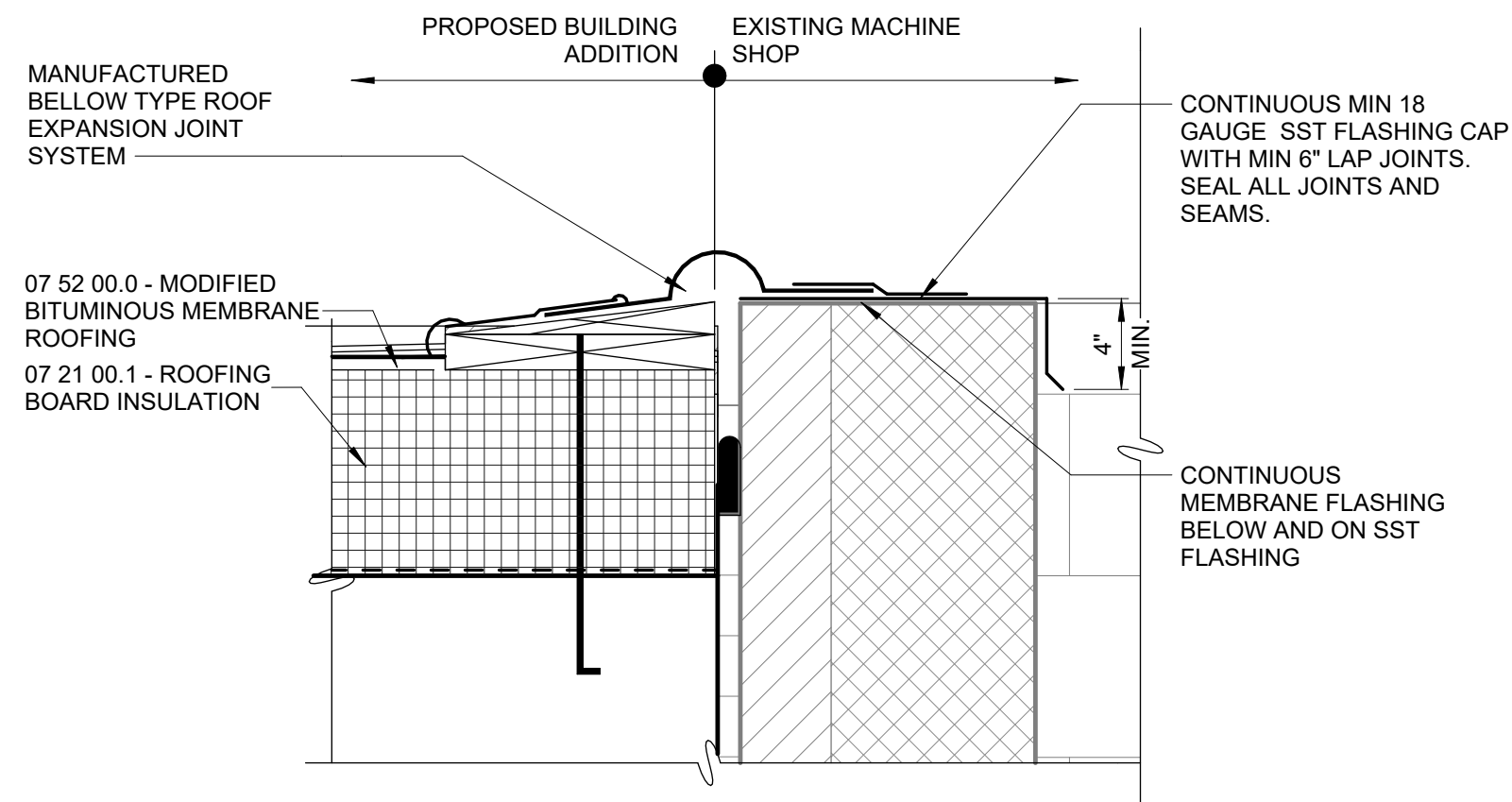
ROOF FASCIA

DETAIL	4
1 1/2" = 1'-0"	A-07



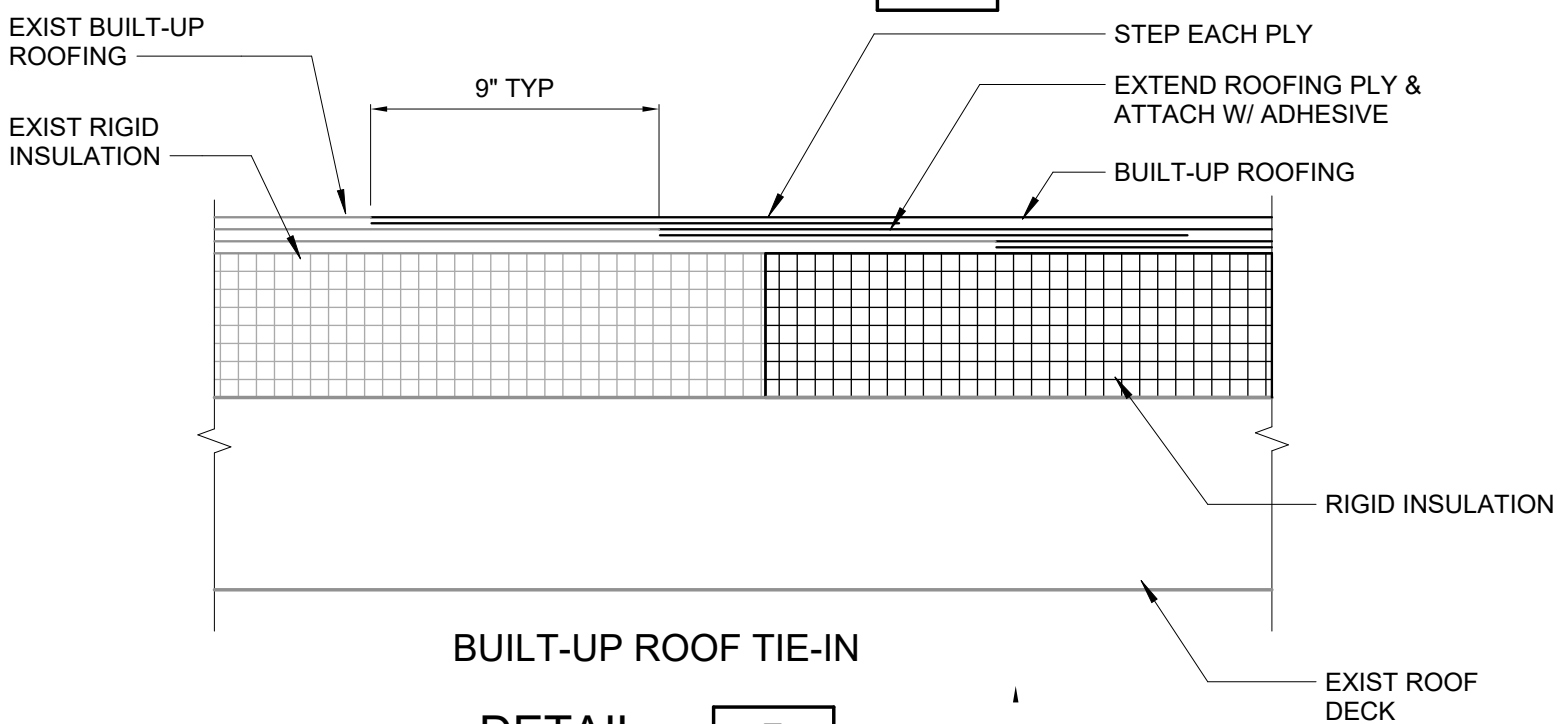
ROOF EXPANSION JOINT

DETAIL	5
1 1/2" = 1'-0"	A-06



ROOF EXPANSION JOINT

DETAIL	6
1 1/2" = 1'-0"	A-06



BUILT-UP ROOF TIE-IN

DETAIL	7
3" = 1'-0"	A-09

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ORANGEBURG WASTEWATER
TREATMENT PLANT
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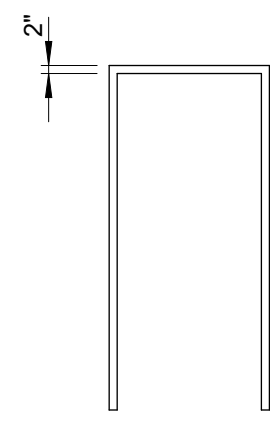
ARCHITECTURAL
ROOF DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-09

DOOR SCHEDULE												
NO.	FRAME		DOOR					DETAILS			HARDWARE	REMARKS
	TYPE	MATL	TYPE	MATL	WIDTH	HEIGHT	THICKNESS	HEAD	JAMB	SILL	NO	
001-1	F-1	SST	NG	SST	3' - 0"	7' - 2"	1 3/4"	3/A-10	3/A-10	3/A-10	1	FIELD VERIFY OPENING
002-1	F-1	SST	NG	SST	3' - 0"	7' - 2"	1 3/4"	3/A-10	3/A-10	3/A-10	1	FIELD VERIFY OPENING
002-2	MFR	SST	OH	SST	10' - 0"	14' - 0"	3/4"	4/A-10	4/A-10	4/A-10	-	FIELD VERIFY OPENING
003-1	F-1	SST	F	SST	3' - 0"	7' - 2"	1 3/4"	3/A-10	3/A-10	3/A-10	1	FIELD VERIFY OPENING
100-1	MFR	STL	OH	SST	9' - 0"	10' - 4"	3/4"	5/A-10	5/A-10	5/A-10	-	INSULATED OVERHEAD DOOR, MOTORIZED
100-2	MFR	STL	OH	SST	9' - 0"	10' - 4"	3/4"	5/A-10	5/A-10	5/A-10	-	INSULATED OVERHEAD DOOR, MOTORIZED
100-3	F-1	SST	NG	SST	3' - 0"	7' - 10"	1 3/4"	2/A-10	2/A-10	2/A-10	1	
100-4	F-1	SST	F	SST	3' - 0"	7' - 2"	1 3/4"	1/A-10	1/A-10	1/A-10	2	FLOOD DOOR SYSTEM TO BE PROVIDED BY FLOOD DOOR MANUFACTUR

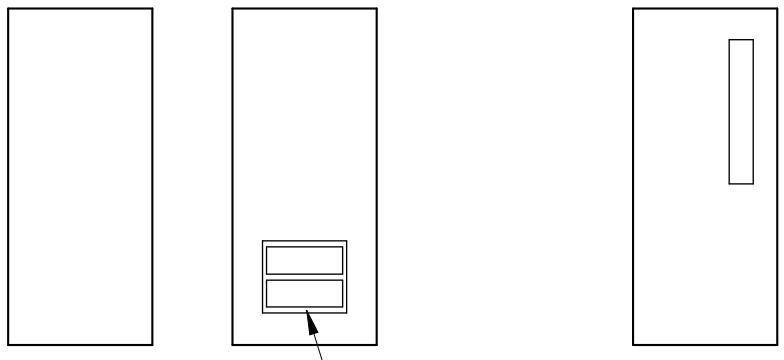
NOTE:
1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES

FRAME TYPES 1/4" = 1'-0"



F-1

DOOR TYPES 1/4" = 1'-0"

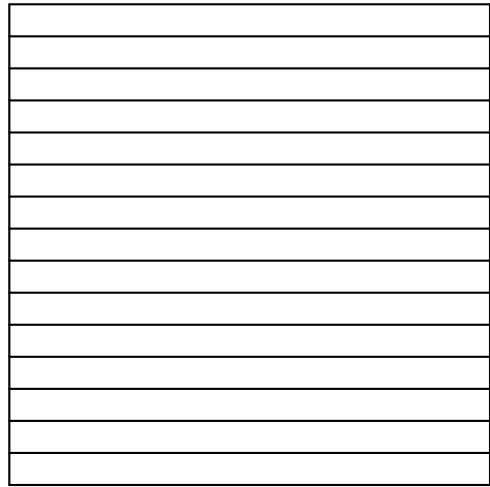


F

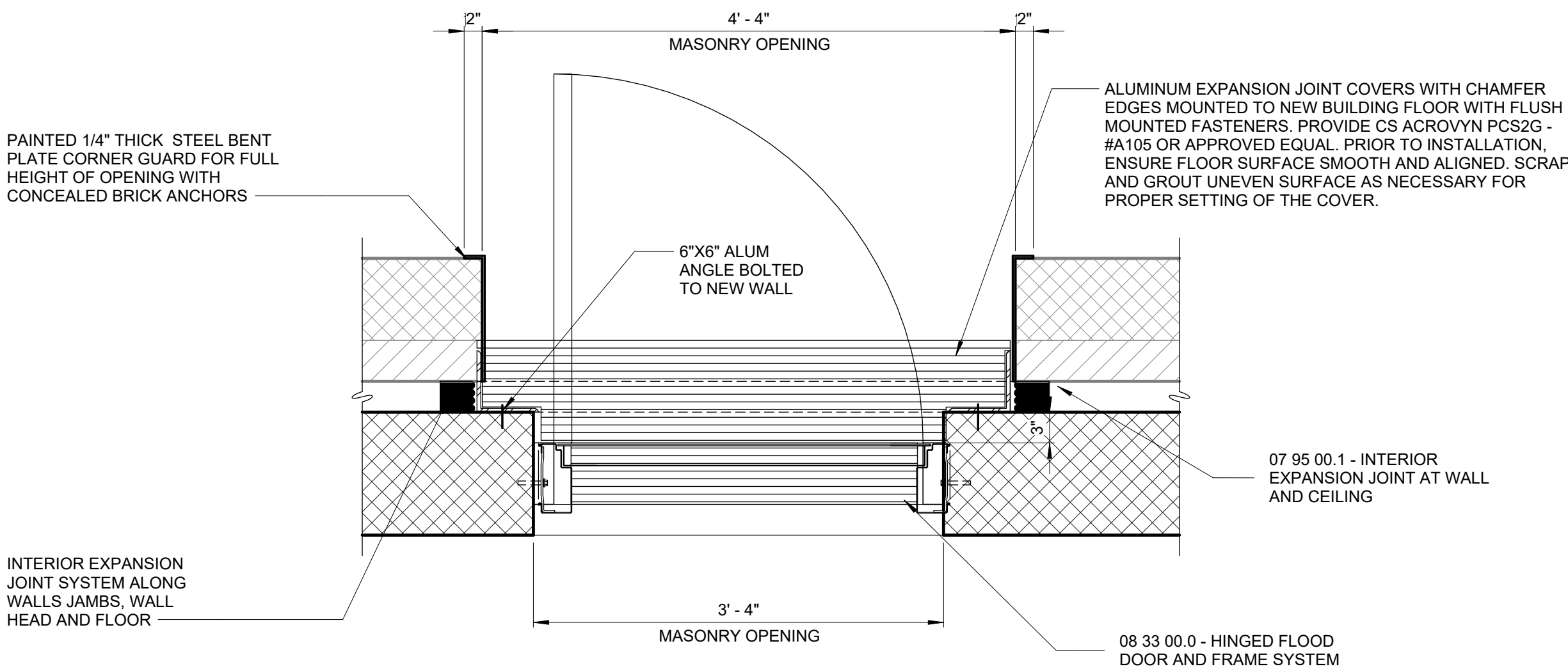
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FLOOD VENTS

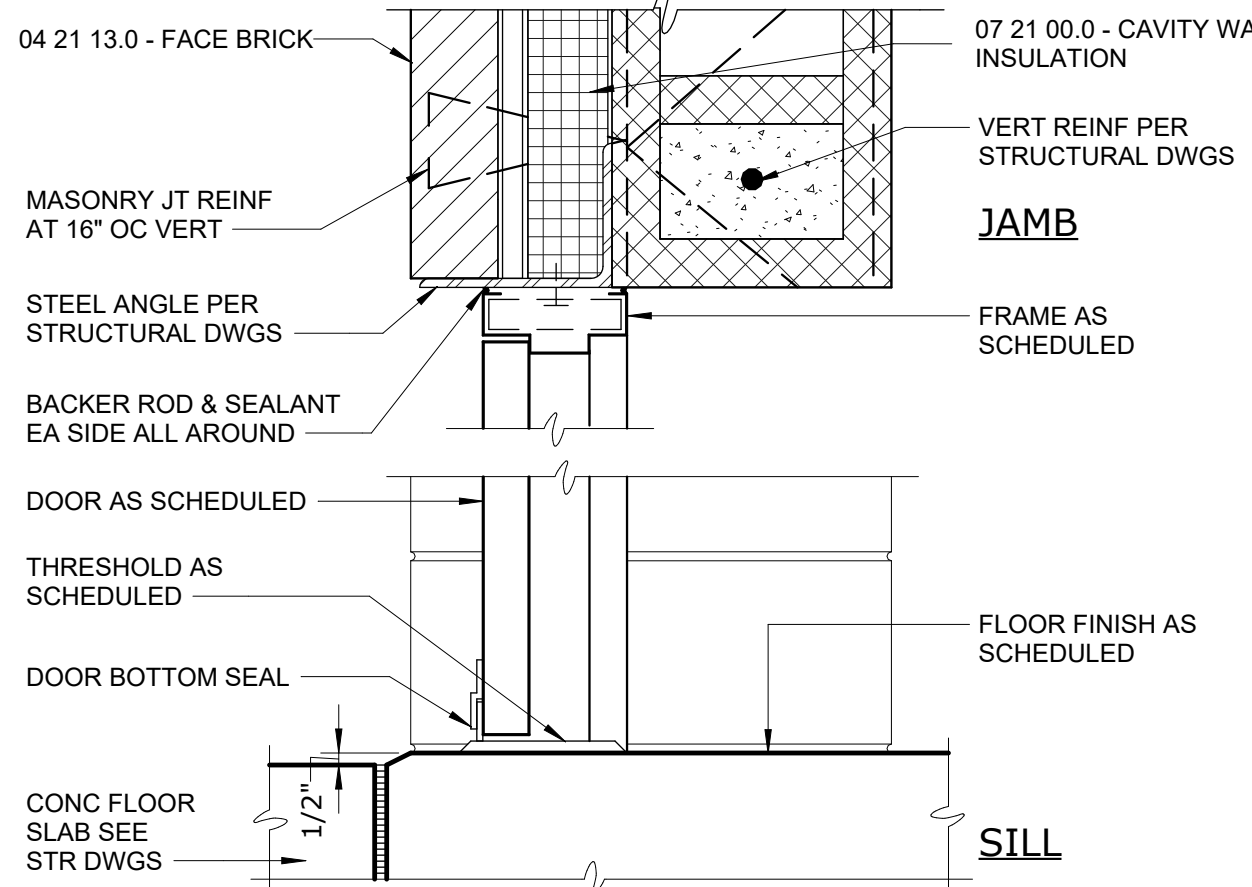
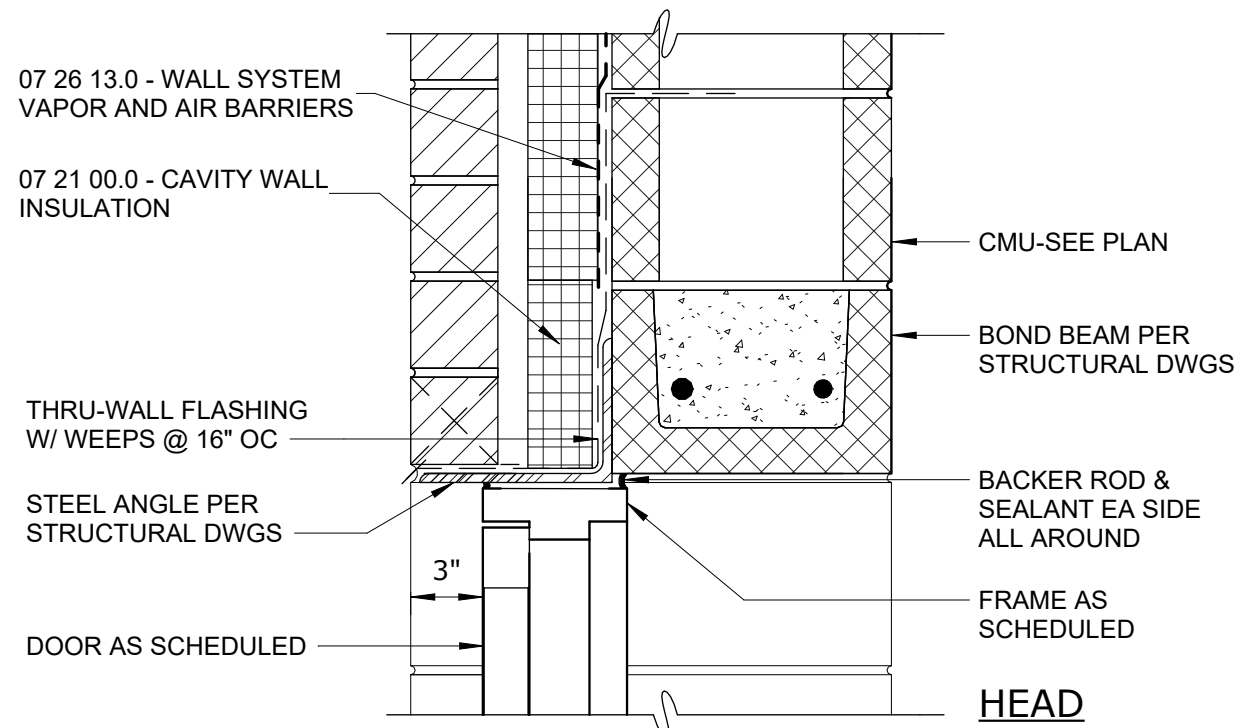


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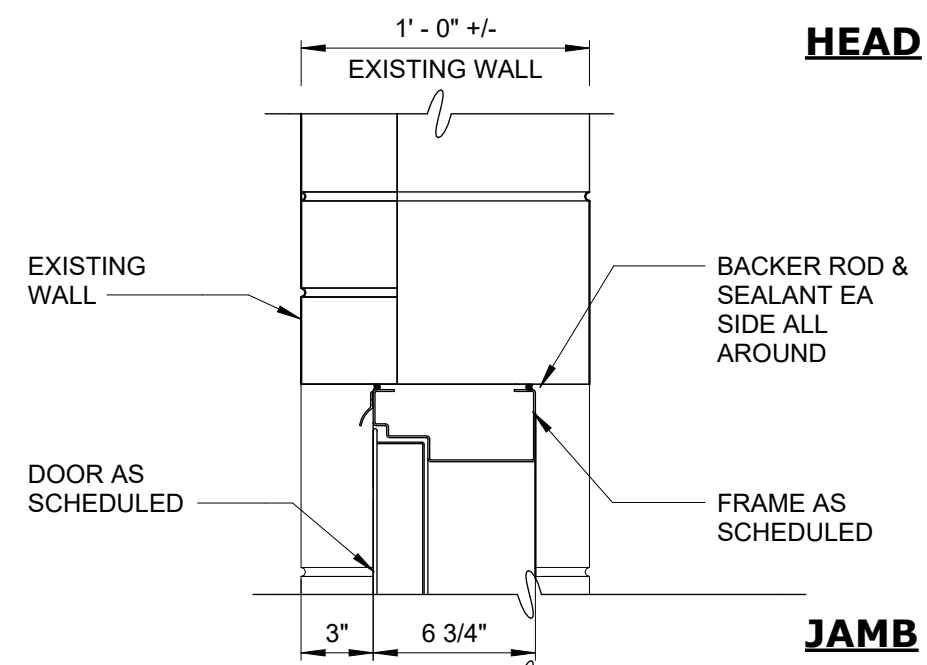
FLOOD DOOR

1" = 1'-0"



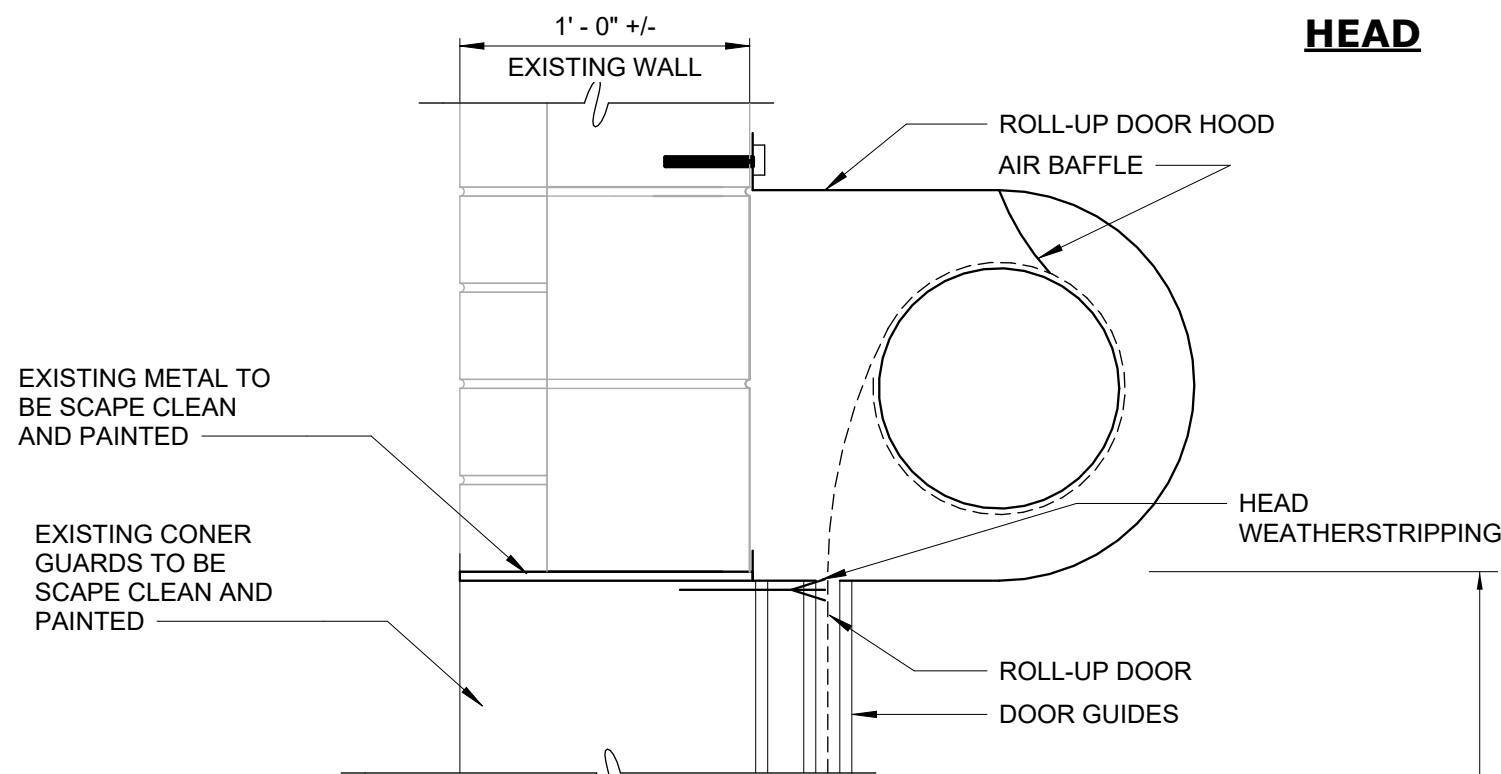
DOOR IN MASONRY WALL

DETAIL	2
1 1/2" = 1'-0"	A-10



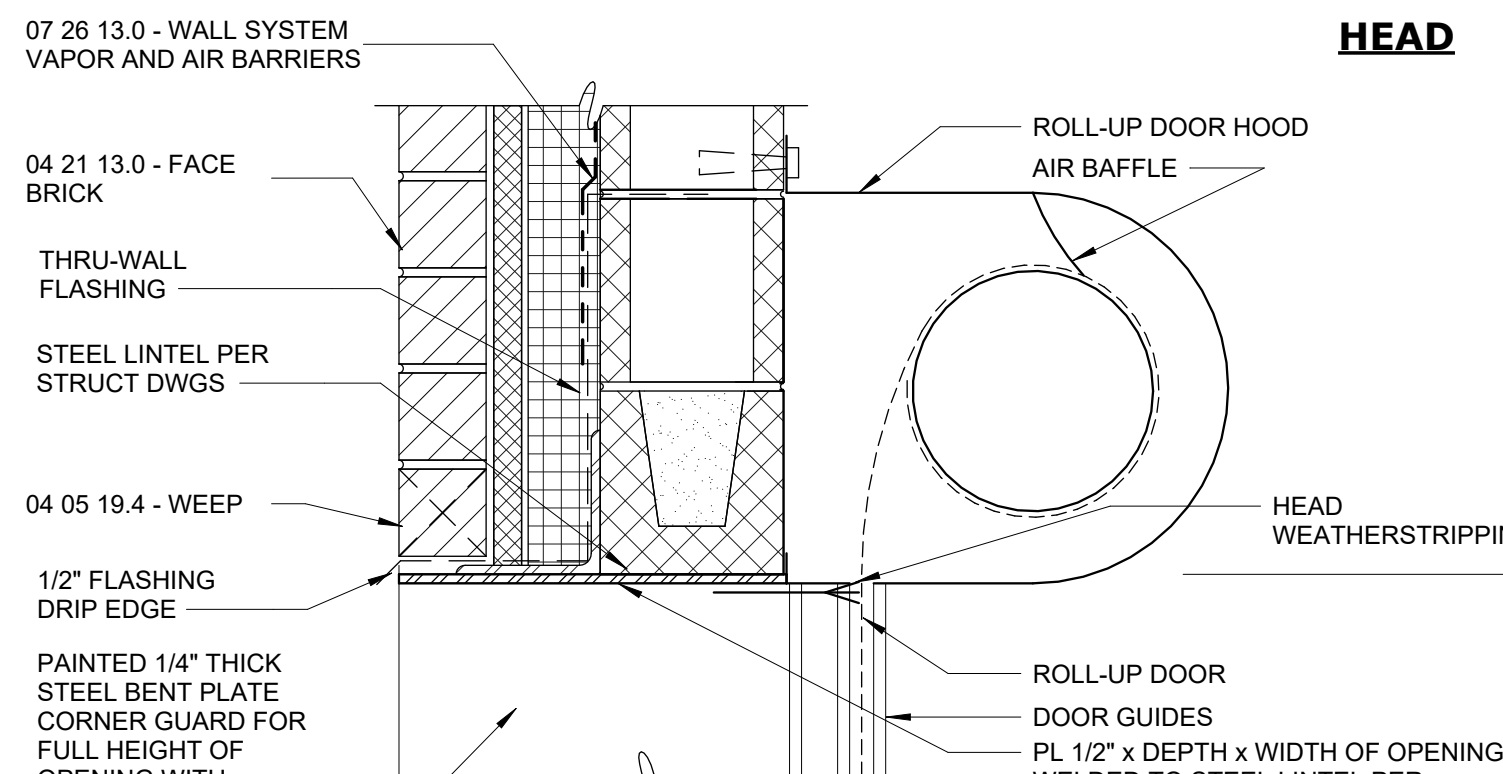
EXTERIOR DOOR AT EXISITNG EXTERIOR WALL

DETAIL	3
1 1/2" = 1'-0"	A-10



ROLL-UP DOOR AT EXISTING WALL

DETAIL	4
1 1/2" = 1'-0"	A-10



ROLL-UP DOOR

DETAIL	5
1 1/2" = 1'-0"	A-10

Autodesk Docs/06MPS-000_EDS and CA for RCSD Streets Rehab/00462-000-100-MSBA.rvt
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0	BID	06/2024	PDS
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J.MARTINEZ
DRAWN BY:	J.MARTINEZ
CHECKED BY:	M. STALLONE
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



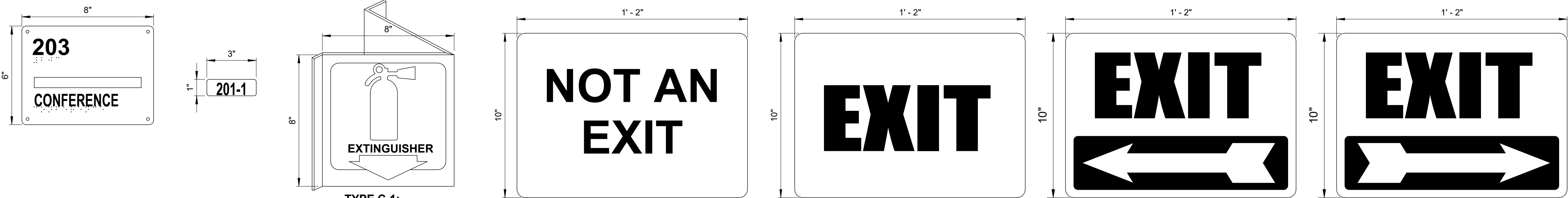
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HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

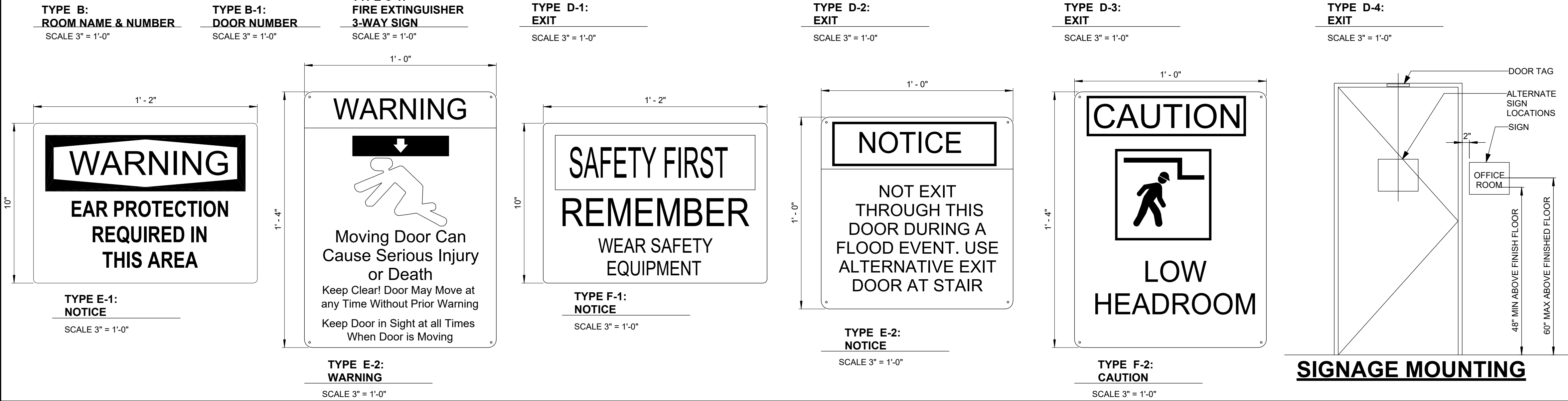
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ARCHITECTURAL
DOOR SCHEDULE AND DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-10



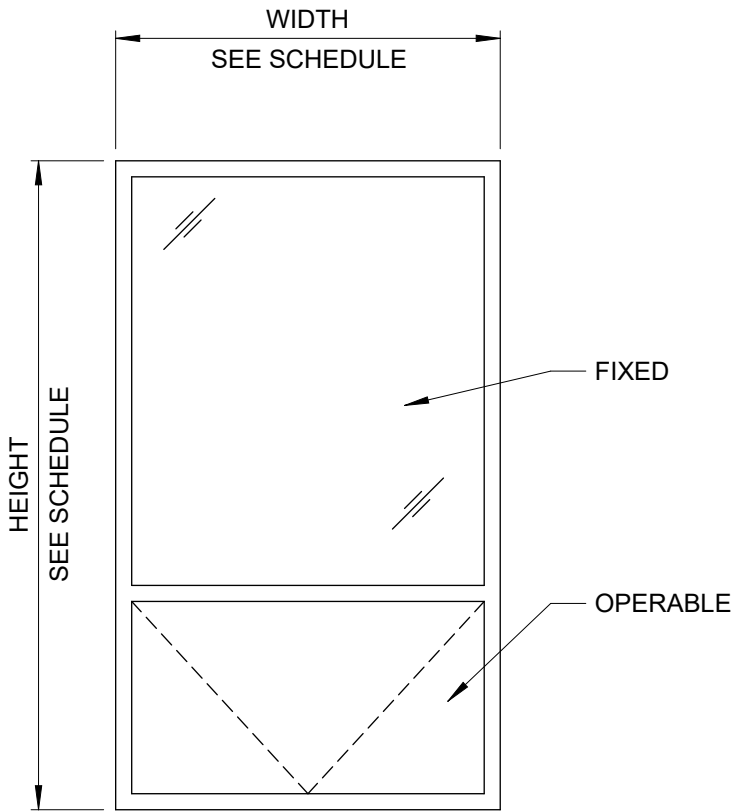
NOTE:
1. REFER TO DRAWING A-01 FOR ARCHITECTURAL NOTES



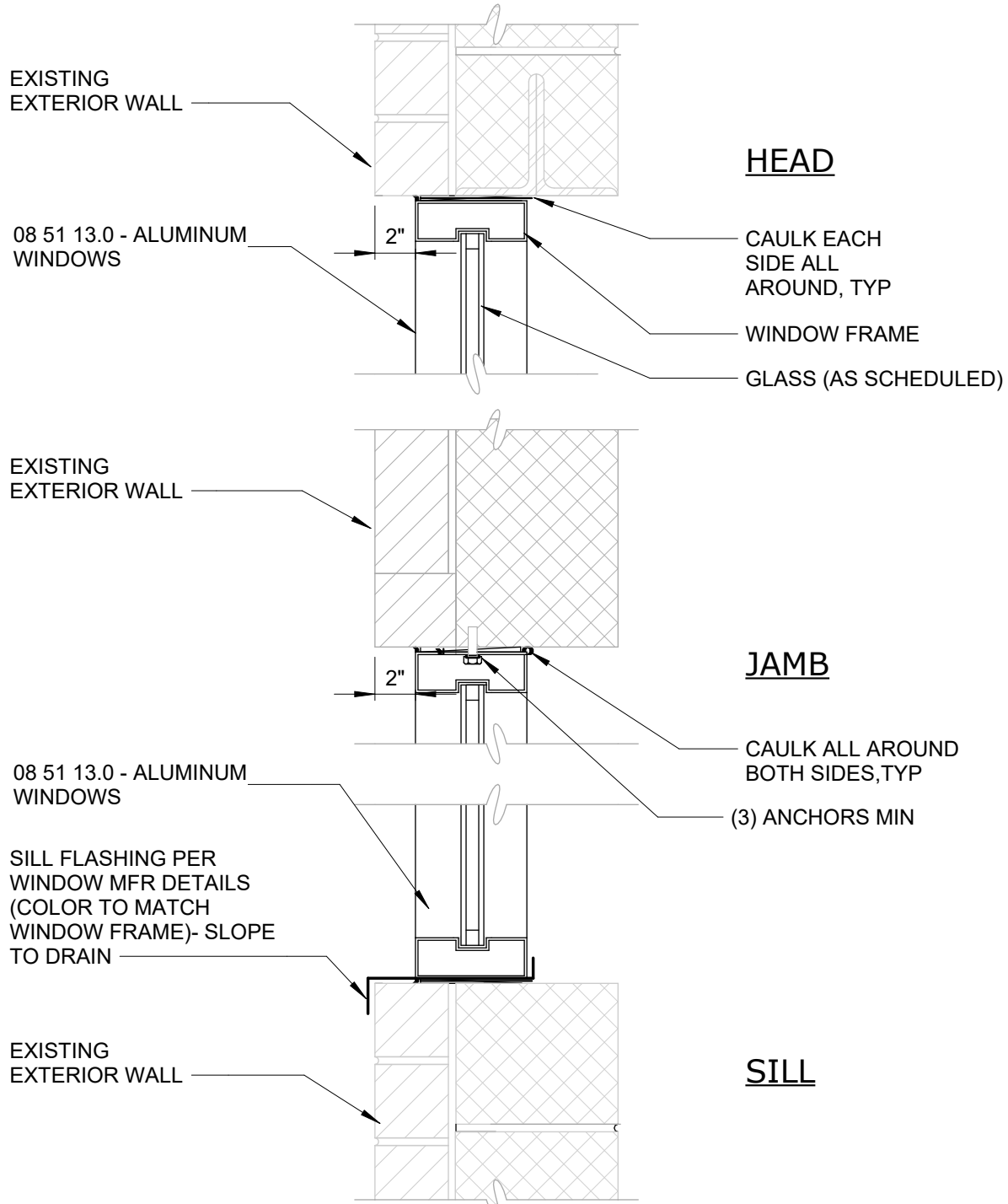
IDENTIFYING DEVICES				
SIGN TYPE	NAME	MESSAGE	QUANTITY	REMARKS
B	ROOM NAME & NUMBER		-	PROVIDE ONE PER ROOM
B-1	DOOR NUMBER		-	PROVIDE ONE PER DOOR
C-1	FIRE EXTINGUISHER - 3 WAY SIGN	EXTINGUISHER		ONE PER FIRE EXTINGUISHER, SEE FLOOR PLAN FOR QUANTITY AND LOCATIONS
D-1	EXIT	NOT AN EXIT	6	
D-2	EXIT	EXIT	6	
D-3	EXIT	DIRECTIONAL ARROW	6	
D-4	EXIT	DIRECTIONAL ARROW	6	
E-1	WARNING	EAR PROTECTION REQUIRED IN THIS AREA	2	
E-2	WARNING	MOVING DOOR CAN CAUSE SERIOUS INJURY OR DEATH	6	
F-1	NOTICE	SAFETY FIRST REMEMBER WEAR SAFETY EQUIPMENT	6	
F-2	NOTICE	NOT EXIT - THROUGH THIS DOOR DURING A FLOOD EVENT. USE ALTERNATIVE EXIT DOOR AT STAIR	4	
F-3	CAUTION	LOW HEADROOM	4	

SIGNAGE MOUNTING

WINDOW SCHEDULE							
NO.	FRAME			DETAILS			REMARKS
	MATERIAL	WIDTH	HEIGHT	HEAD	JAMB	SILL	
W-1	AL	4' - 0"	6' - 9"	1/A-11	1/A-11	1/A-11	FIELD VERIFY WINDOW OPENING
W-2	AL	4' - 0"	6' - 9"	1/A-11	1/A-11	1/A-11	FIELD VERIFY WINDOW OPENING
W-3	AL	4' - 0"	6' - 9"	1/A-11	1/A-11	1/A-11	FIELD VERIFY WINDOW OPENING
W-4	AL	4' - 0"	6' - 9"	1/A-11	1/A-11	1/A-11	FIELD VERIFY WINDOW OPENING
W-5	AL	4' - 0"	6' - 8"	2/A-11	2/A-11	2/A-11	

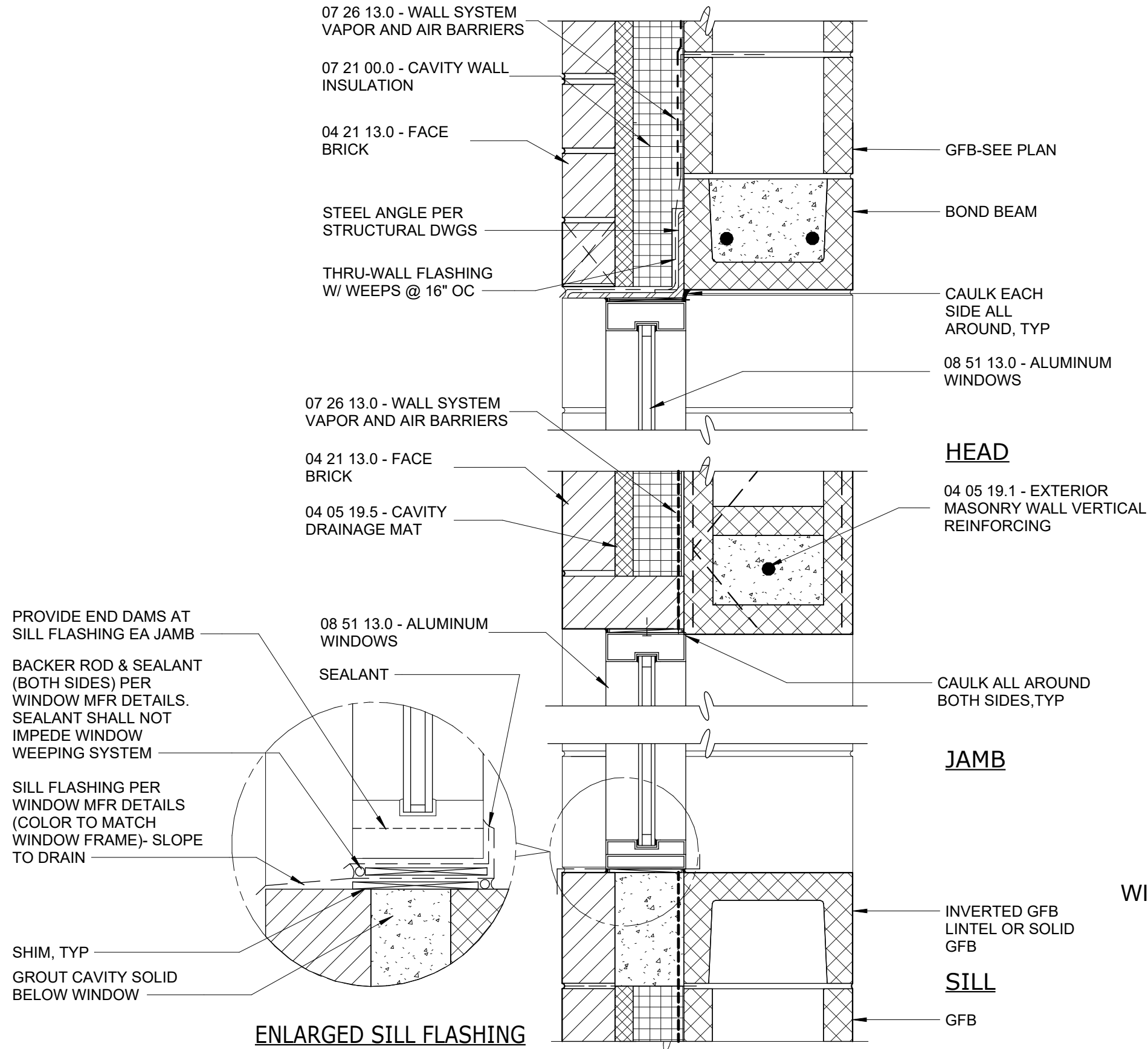


WINDOW ELEVATION
1/2" = 1'-0"



WINDOW IN EXISTING MASONRY WALL

DETAIL	1
1 1/2" = 1'-0"	A-11



WINDOW IN MASONRY CAVITY WALL - 12" CMU

DETAIL	A-11
1 1/2" = 1'-0"	

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
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FOR BID



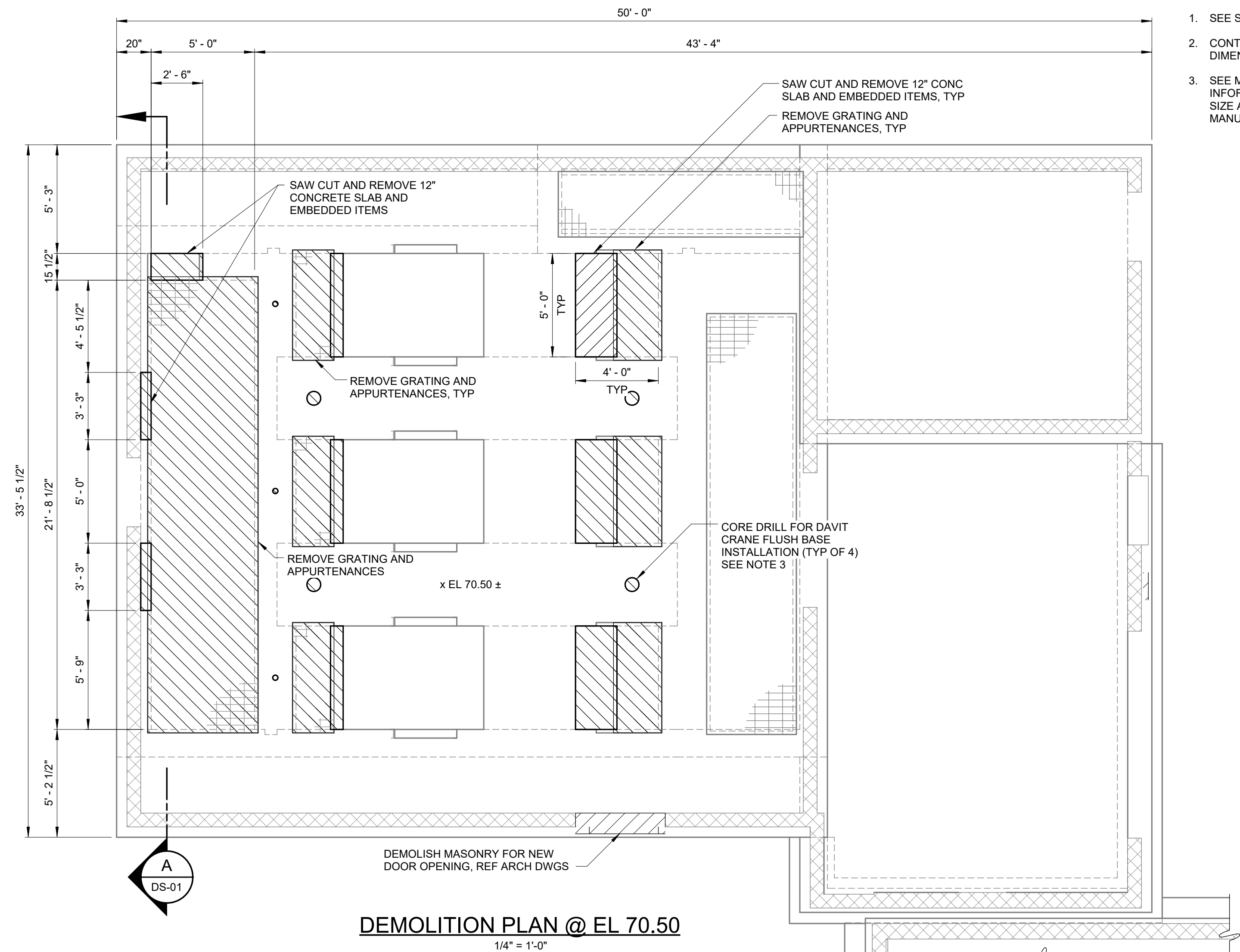
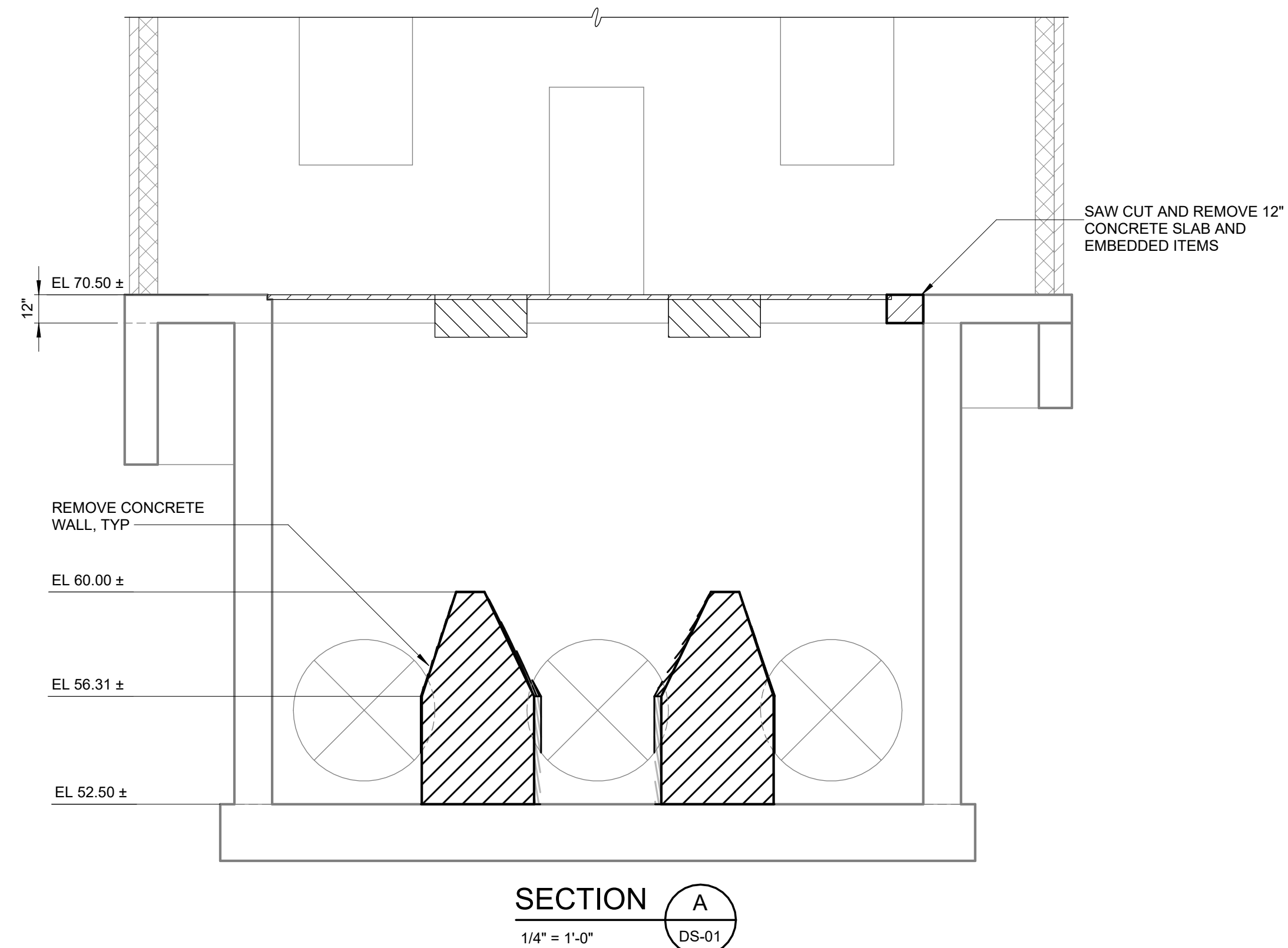
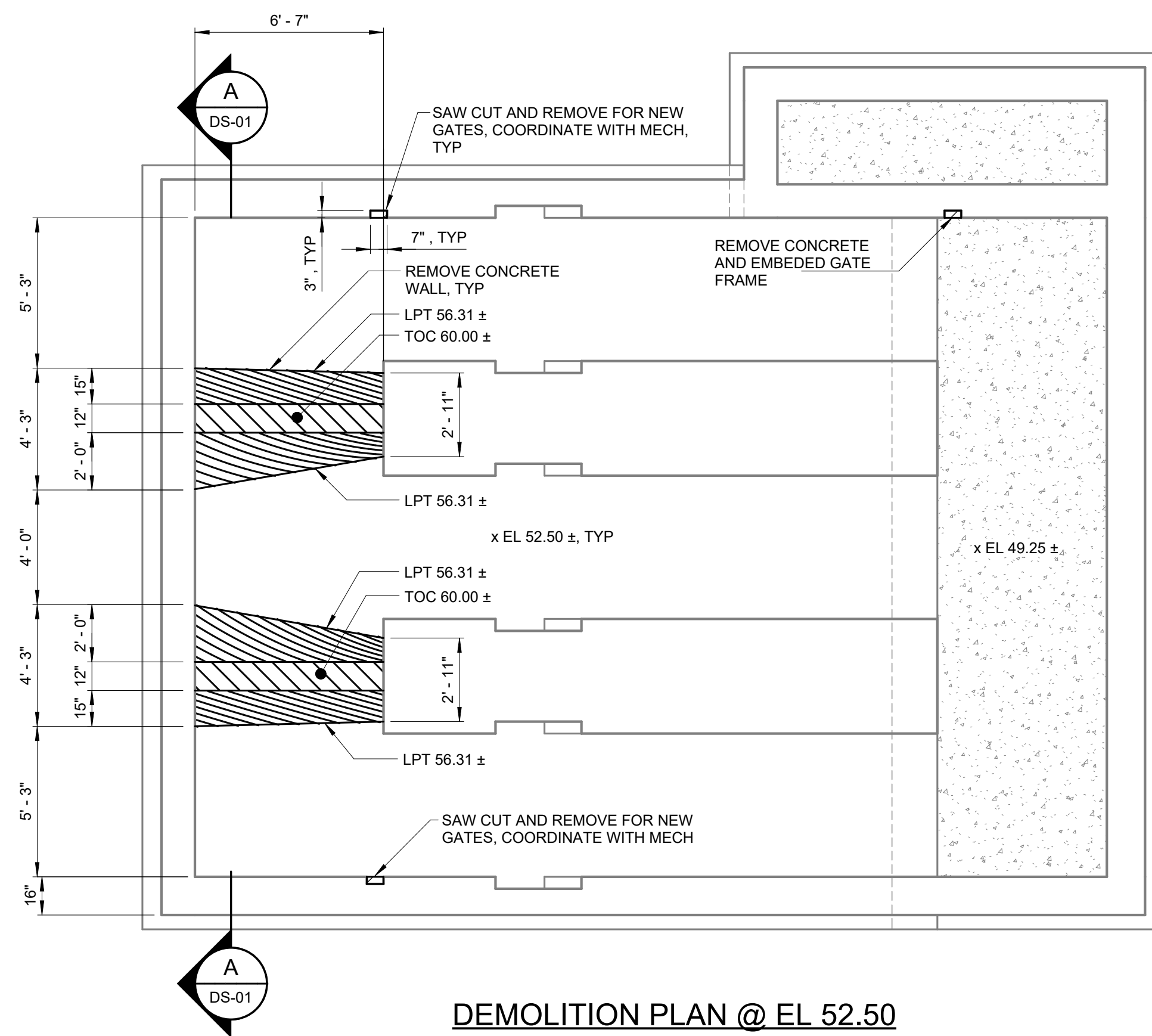
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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK


ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ARCHITECTURAL
WINDOW AND IDENTIFYING DEVICES SCHEDULE
AND DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	A-11



- NOTES:**
1. SEE S-02 FOR ADDITIONAL DEMOLITION NOTES.
 2. CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
 3. SEE M DRAWINGS FOR ADDITIONAL INFORMATION ON DAVIT CRANE. COORDINATE SIZE AND DEPTH OF CORE DRILL WITH MANUFACTURER

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	S. MANZO
				DRAWN BY:	M. ROBLE
				CHECKED BY:	L. GIROUX
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div> 0 1/2" 1 </div> 
REV	ISSUED FOR	DATE	BY		

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div style="display: flex; align-items: center;"> 0 <div style="flex-grow: 1; border-bottom: 2px solid black; position: relative;"> <div style="position: absolute; right: 0; top: -5px;">1/2"</div> <div style="position: absolute; right: 0; top: 5px;">1</div> <div style="position: absolute; bottom: 0; left: 0; right: 0; height: 10px; background: linear-gradient(to right, black 50%, white 50%); background-size: 10px 10px; border: 1px solid black;"></div> </div> </div>

FOR BID



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NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

STRUCTURAL REMOVAL
PLAN EL 52.50, EL 70.50 AND SECTION

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DS-01

GENERAL STRUCTURAL NOTES

- G-1 THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- G-2 STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
- G-3 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2020 NEW YORK STATE BUILDING CODE. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES G-4 THROUGH G-8 WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- G-4 LIVE LOADS:

STRUCTURE \ LEVEL	ROOF	BOTTOM / GROUND FLOOR
COMPACTOR ROOM	30 PSF	300 PSF

-ALL STAIRWAYS, LANDINGS AND PLATFORMS ARE DESIGNED FOR A LIVE LOAD = 100 PSF UNLESS NOTED OTHERWISE.

- G-5 SNOW LOAD:

GROUND SNOW LOAD (Pg) = 30 PSF
FLAT-ROOF SNOW LOAD (Pf) = 30PSF
SNOW EXPOSURE FACTOR (Ce) = 30 PSF
SNOW LOAD IMPORTANCE FACTOR (Is) = 1.10
THERMAL FACTOR (Ct) = 1.10
DRIFT SURCHARGE LOAD Pd = 36 PSF
WDTH OF SNOW DRIFT (W) = 6 FT

- G-6 WIND DESIGN CRITERIA:

BASIC DESIGN WIND SPEED (V) = 125 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd) = 97 MPH
RISK CATEGORY = III
WIND EXPOSURE = C

STRUCTURE \ PARAMETER	PRESSURE COEFFICIENT GCpi	WIND DESIGN PRESSURE	COMPONENTS AND CLADDING	LATERAL LOAD RESISTING SYSTEM
COMPACTOR ROOM	±0.18	30 PSF	43 PSF WALLS	MASONRY SHEAR WALL

- G-7 SEISMIC LOAD:

RISK CATEGORY = III
SEISMIC IMPORTANCE FACTOR (Ie) = 1.25
SITE CLASS = C
MAPED SPECTRAL RESPONSE ACCELERATIONS (Ss/S1) = 0.299/0.062
SPECTRAL RESPONSE ACCELERATIONS (Sms/Sm1) = 0.389/0.093
SPECTRAL RESPONSE COEFFICIENTS (SDS/SD1) = 0.259/0.062
SEISMIC DESIGN CATEGORY = B

STRUCTURE \ PARAMETER	BASIC STRUCTURAL SYSTEM	DESIGN BASE SHEAR	SEISMIC RESPONSE COEFFICIENT Cs	RESPONSE MODIFICATION COEFFICIENT R	ANALYSIS PROCEDURE
COMPACTOR ROOM	MASONRY SHEAR WALL	40 K	0.162	2	EQUIVALENT LATERAL FORCE

- G-8 RAIN LOAD:

RAIN INTENSITY (i) = 6.86 IN/HR - 15 MIN INTENSITY
2.98 IN/HR - 60 MIN INTENSITY

- G-9 ALL DIMENSIONS INDICATED FOR EXISTING STRUCTURES SHALL BE VERIFIED BY FIELD MEASUREMENT. ALL DIMENSIONS THAT ARE CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER SHOP DRAWINGS PRIOR TO CONSTRUCTION.

- G-10 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.

- G-11 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.

- G-12 EQUIPMENT ANCHOR SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE DESIGNED BY THE MANUFACTURER OF THE EQUIPMENT. IF EQUIPMENT MANUFACTURER IS UNABLE TO PROVIDE DESIGN OF ANCHOR EMBEDMENT, DESIGN SHALL BE BY ENGINEER RETAINED BY CONTRACTOR BASED ON LOADS PROVIDED BY EQUIPMENT MANUFACTURER. CONTRACTOR SHALL SUBMIT SIZE, PLACEMENT, AND EMBEDMENT REQUIREMENTS. ALL ANCHOR PATTERNS SHALL BE TEMPLATED TO ENSURE ACCURACY OF PLACEMENT.

- G-13 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.

- G-14 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.

- G-15 IF CONTRACTOR DESIRES TO TEMPORARILY PLACE OR MOVE LOADS ON OR ADJACENT TO EXISTING STRUCTURES OR UTILITIES DURING CONSTRUCTION PROCESS, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY AND AVOIDING OVERSTRESSING AND DAMAGING EXISTING STRUCTURES AND UTILITIES. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS AND DRAWINGS VERIFYING THAT PROPOSED CONSTRUCTION (INCLUDING APPLICATION OF TEMPORARY CONSTRUCTION LOADS) WILL NOT OVERSTRESS OR DAMAGE EXISTING STRUCTURES AND UTILITIES. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF NEW YORK.

GENERAL STRUCTURAL NOTES, CONTINUED

- G-16 NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ALL ADJACENT SUPPORTING ELEMENTS HAVE ACHIEVED DESIGN STRENGTH, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE ENGINEER. SUPPORTING ELEMENTS SHALL INCLUDE ADJACENT WALLS, SLABS, BEAMS AND COLUMNS.
- G-17 LEAKAGE TESTING OF HYDRAULIC STRUCTURES SHALL NOT BEGIN UNTIL ALL STRUCTURAL ELEMENTS HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH. BACKFILL SHALL NOT BE PLACED AROUND ANY HYDRAULIC STRUCTURE UNTIL THE LEAKAGE TEST HAS BEEN COMPLETED UNLESS APPROVED BY THE ENGINEER.

STRUCTURAL METALS

- M-1 DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.

- M-2 STEEL MATERIAL:
A) STRUCTURAL HSS: ASTM A500, GRADE C (46/50 KSI) OR A1085 GRADE A (50 KSI)
B) STRUCTURAL PIPE: ASTM A53, GRADE B (35 KSI)
C) PLATES, BARS AND ANGLES: ASTM A36 UNO (36 KSI)
D) STRUCTURAL W, C, & MC SHAPES: ASTM A992 (50 KSI)
E) STRUCTURAL M & S SHAPES: ASTM A36 (36 KSI)
F) STRUCTURAL HP: ASTM A572 GRADE 50 (50 KSI)
G) ANCHOR RODS: ASTM F1554 GRADE 55 (55 KSI)

- M-3 PROVIDE MINIMUM 3/4" DIAMETER ASTM F3125 GRADE A325 TYPE 1 OR GRADE F1852 TYPE 1 HIGH STRENGTH BOLTS WITH SNUG TIGHTENED TYPE N CONNECTIONS FOR STRUCTURAL STEEL UNLESS NOTED OTHERWISE. HOLES FOR BOLTS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

- M-4 PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN ONE HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS UNLESS NOTED OTHERWISE.

- M-5 DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ARE TO BE ENCASED IN CONCRETE.

- M-6 ALL STAINLESS STEEL FABRICATIONS EXPOSED TO UNDERWATER SERVICE SHALL BE TYPE 316. ALL OTHER STAINLESS STEEL FABRICATIONS SHALL BE TYPE 304 UNLESS NOTED OTHERWISE.

- M-7 ALUMINUM SHALL BE ALLOY 6061-T6 UNLESS NOTED OTHERWISE.

- M-8 ALL BOLTS, ANCHORS, AND CONCRETE ANCHORS CONNECTING ALUMINUM SHALL BE STAINLESS STEEL TYPE 316 FOR UNDERWATER APPLICATIONS AND TYPE 304 FOR ALL OTHER APPLICATIONS.

- M-9 ALUMINUM SHALL BE ISOLATED FROM CONTACT WITH CONCRETE AND DISSIMILAR METALS.

- M-10 ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION.

- M-11 FILLET WELD SIZES SHALL NOT BE LESS THAN THE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH, AND NOT LESS THAN 3/16".

- M-12 ALL WELDS SHALL BE PERFORMED IN THE SHOP UNLESS NOTED BY A FIELD WELD SYMBOL OR APPROVED BY ENGINEER.

- M-13 BOTTOM SURFACES OF BASE PLATES SHALL BE GROUTED TO ENSURE FULL BEARING CONTACT WITH CONCRETE SLAB.

- M-14 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, A MINIMUM OF TWO FASTENINGS PER PIECE SHALL BE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 0.25 OF FASTENER SPACING FROM EACH END.

- M-15 GRATING PANELS SHALL BE CONFINED TO PREVENT MOVEMENT PER STANDARD DETAIL S-05-0706. USE OF GRATING CLIP ATTACHMENT IS NOT ACCEPTABLE TO PREVENT GRATING MOVEMENT.

FOUNDATIONS

- F-1 CONCRETE (CAST-IN-PLACE) NOTES APPLY TO FOUNDATIONS.

- F-2 ALLOWABLE SOIL BEARING PRESSURE

STRUCTURE \ PARAMETER	ALLOWABLE SOIL BEARING PRESSURE
COMPACTOR ROOM	3000 PSF

- F-3 MINIMUM DEPTH FROM ADJACENT FINISHED GRADE TO BOTTOM OF FOUNDATION = 42 INCHES.

- F-4 COMPACTOR ROOM STRUCTURE IS DESIGNED FOR THE DESIGN FLOOD ELEVATION OF:

STRUCTURE \ PARAMETER	NORMAL GROUND WATER ELEVATION	100-YEAR FLOOD ELEVATION	DESIGN FLOOD ELEVATION (DFE) - NON-CRITICAL EQUIPMENT
COMPACTOR ROOM - NON-CRITICAL EQUIPMENT	EL. 65.50	EL. 71.29	EL. 73.29

CONCRETE (CAST-IN-PLACE)

- C-1 DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).

- C-2 CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):

A) CLASS A1 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED IN ALL STRUCTURES UNLESS NOTED OTHERWISE.

B) CLASS B CONCRETE (3,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR DUCT BANK ENCASEMENTS, CATCH BASINS, FENCE AND GUARD POST EMBEDMENT, CONCRETE FILL, AND OTHER AREAS WHERE SPECIFICALLY NOTED ON CONTRACT DRAWINGS.

- C-3 ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.

- C-4 CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

A) CONCRETE DEPOSITED DIRECTLY AGAINST SOIL: 3"
B) CONCRETE EXPOSED TO WEATHER (#5 OR SMALLER): 1 1/2"
CONCRETE EXPOSED TO WEATHER (#6 OR LARGER): 2"
C) SLABS: 1 1/2"
AT SURFACES CONTACTING FLUID: 2"
D) BEAMS AND COLUMNS (TO MAIN REINFORCEMENT): 2"
BEAMS AND COLUMNS (TO COLUMN TIES OR STIRRUPS): 1 1/2"
E) WALLS 12" OR MORE: 2"
WALLS LESS THAN 12" (#5 OR SMALLER): 1 1/2"
WALLS LESS THAN 12" (#6 OR LARGER): 2"
F) FOR SURFACES EXPOSED TO FLUID IN BEAMS, COLUMNS AND WALLS: ADD 1/2" TO ABOVE VALUES

- C-5 SPLICES SHALL BE CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE.

- C-6 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.

- C-7 ALL JOINTS WHICH ARE IN MEMBERS IN CONTACT WITH LIQUID OR BELOW GRADE SHALL HAVE A WATERSTOP. CONSTRUCTION JOINTS SHALL HAVE A 6" PVC RIBBED WATERSTOP. EXPANSION JOINTS SHALL HAVE A 9" PVC CENTER BULB RIBBED WATERSTOP. IN VERTICAL JOINTS, WATERSTOPS SHALL TERMINATE NO LESS THAN 18" ABOVE THE MAXIMUM WATER SURFACE OR 18" ABOVE GRADE, WHICHEVER IS HIGHER.

- C-8 UNLESS SPECIFICALLY NOTED OTHERWISE, WALLS ABOVE INTERSECTING SLABS OF ALL LIQUID CONTAINING AND BELOW GRADE STRUCTURES SHALL HAVE HORIZONTAL REINFORCEMENT SPACING OF 6" MAXIMUM IN THE 6'-0" ZONE ABOVE THE CONSTRUCTION JOINT, SEE STANDARD DETAIL S-03-0115.

- C-9 ALL EXPOSED CORNERS SHALL HAVE A 3/4" CHAMFER.

- C-10 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE INSTALLED PRIOR TO PLACING CONCRETE.

- C-11 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.

- C-12 CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2" CLEAR. WHEN SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.

- C-13 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH ADHESIVE DOWELS AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3" FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.

- C-14 ADJUST THE LOCATION OF DOWELS OR ANCHORS PLACED INTO HARDENED CONCRETE AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS OR ANCHORS.

- C-15 CLEAR DISTANCE FROM ANCHOR RODS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.

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ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

STRUCTURAL
GENERAL STRUCTURAL NOTES SHEET 1

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-01

Autodesk Docs/04662-000_EDS and CA for RCSD Streets Rehab/0462-000-100-MSS-S.rvt
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MASONRY

- MA-1
- MASONRY MORTAR SHALL BE ASTM C 270 TYPE "S" AND MASONRY GROUT SHALL CONFORM TO REQUIREMENTS OF ASTM C 476.
- MA-2
- CONCRETE MASONRY UNIT NET AREA COMPRESSIVE STRENGTH SHALL BE 2,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C 140. COMPLETE TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING INSPECTOR.
- MA-3
- HORIZONTAL JOINT REINFORCEMENT SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS. HORIZONTAL JOINT REINFORCEMENT SHALL CONFORM TO ASTM A 951 AND REINFORCEMENT STEEL SHALL CONFORM TO REQUIREMENTS OF ASTM A 615 FOR GRADE 60 BILLET STEEL.
- MA-4
- EXTERIOR CONCRETE MASONRY UNIT WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 24 INCHES ON CENTER FULL HEIGHT OF WALL, CENTERED IN FULLY GROUTED CELLS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. INTERIOR CONCRETE MASONRY UNIT WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 24 INCHES ON CENTER, FULL HEIGHT OF WALL, CENTERED IN FULLY GROUTED CELLS, UNLESS SHOWN OTHERWISE ON DRAWINGS.
- MA-5
- VERTICAL REINFORCEMENT SHALL BE PROVIDED AT WALL ENDS, CORNERS, AND INTERSECTIONS AND IMMEDIATELY ADJACENT TO ALL OPENINGS, CONTROL JOINTS, AND COLUMNS. SEE STANDARD DETAILS FOR MASONRY OPENINGS.
- MA-6
- MASONRY REINFORCEMENT LAP SPLICES SHALL BE CONTACT SPLICES. UNLESS NOTED OTHERWISE, LENGTH OF SPLICE FOR SINGLE BARS IN CENTER OF CELLS OF 8" OR LARGER CMU SHALL BE A MINIMUM OF 25 INCHES FOR #4 BARS, 32 INCHES FOR #5 BARS, AND 50 INCHES FOR #6 BARS. LENGTH OF SPLICE FOR OTHER CONDITIONS SHALL BE AS SHOWN ON THE DRAWINGS.
- MA-7
- BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS AT ALL WALL INTERSECTIONS, SEE STANDARD DETAILS. WHERE BOND BEAM REINFORCEMENT IS INTERRUPTED BY OPENINGS REINFORCEMENT SHALL BE PROVIDED WITH 90° HOOKS AT EACH ENDS. BOND BEAM REINFORCEMENT SHALL BE 2-#5 BARS UNLESS OTHERWISE INDICATED.
- MA-8
- DOWELS SHALL BE EITHER CAST INTO CONCRETE OR INSTALLED WITH DOWEL ADHESIVE SYSTEM. IF CAST, DOWELS SHALL BE FULLY DEVELOPED WITH EITHER A STRAIGHT BAR OR A STANDARD 90 DEGREE HOOK. IF INSTALLED WITH A DOWEL ADHESIVE SYSTEM, DOWEL SHALL BE EMBEDDED A MINIMUM OF 10" INTO CONCRETE AND LOCATED TO AVOID DRILLING THRU ANY REINFORCING BARS.
- MA-9
- VENEER SUPPORT STEEL ANGLES SHALL BE GALVANIZED L6x6x3/8 WITH 1/2" DIAMETER GALVANIZED ADHESIVE ANCHORS AT 24" ON CENTER AND 4" EMBEDMENT (MIN 3 ANCHORS PER ANGLE) ANGLE SHALL EXTEND 8" BEYOND OPENINGS.
- MA-10
- MASONRY LINTELS SHALL BE EITHER PRECAST CONCRETE "U" SECTIONS OR CONCRETE MASONRY "U" BLOCKS UNLESS SHOWN OTHERWISE.
- MA-11
- FOR CONCRETE MASONRY "U" BLOCK LINTELS SEE STANDARD DETAILS FOR MASONRY OPENINGS AND THE CMU OPENING REINFORCEMENT SCHEDULE, UNLESS OTHERWISE NOTED ON DRAWINGS:
- MA-12
- PRECAST CONCRETE "U" SECTIONS SHALL BE REINFORCED WITH 2-#3 TOP AND 2-#5 BOTTOM. FOR SPANS UP TO 4 FEET ADDITIONAL FIELD REINFORCEMENT NOT REQUIRED. FOR SPANS BETWEEN 4 FEET AND LESS THAN 8 FEET AN ADDITIONAL #5 BAR SHALL BE ADDED IN THE TOP AND BOTTOM OF THE LINTEL IN THE FIELD.

DEMOLITION

- D-1
- FOR DEMOLITION REQUIREMENTS, REFER TO SPECIFICATION SECTION 01 73 00 - DEMOLITION AND EXECUTION OF WORK AND 02 41 00 - SITE DEMOLITION.
- D-2
- CONCRETE DEMOLITION WITHIN STRUCTURES BEING MODIFIED SHALL BE SELECTIVE DEMOLITION BY CORE DRILLING OR SAWCUTTING AND CAREFUL REMOVAL OF CONCRETE SHOWN TO BE REMOVED. NO OVER CUTTING OF AREAS TO BE DEMOLISHED SHALL BE PERMITTED. CONTRACTOR SHALL CORE DRILL CORNERS OF OPENING PRIOR TO SAWCUTTING. EXPLOSIVES AND VIBRATORY HAMMERS SHALL NOT BE USED FOR DEMOLITION WORK.
- D-3
- UNLESS ANCHORING DEVICES AND/OR REINFORCEMENT IS NOTED TO REMAIN FOLLOWING DEMOLITION, REMOVE AND/OR BURN BACK ANCHORS AND REINFORCEMENT STEEL 1" MIN BELOW SURFACE AND VOIDS CREATED SHALL BE FILLED WITH EPOXY RESIN BINDER.
- D-4
- EMBEDDED CONDUIT ENCOUNTERED DURING DEMOLITION WORK LIMITS SHALL BE PERMANENTLY REROUTED AS NECESSARY. CONTRACTOR SHALL SUBMIT PROPOSED MEANS OF REROUTING ANY INTERFERING CONDUIT.
- D-5
- WHERE DRAWINGS INDICATE A CONCRETE EQUIPMENT PAD TO BE DEMOLISHED, THE FLOOR SLAB SURFACE SHALL BE REPAIRED AS APPROVED BY ENGINEER. FOLLOWING SELECT DEMOLITION AND REMOVAL OF THE EQUIPMENT PAD REMOVAL THE REPAIR SHALL BE:
A. SAWCUT THE FLOOR AROUND THE EQUIPMENT PAD PERIMETER TO A DEPTH OF 1/4".
B. SCARIFY AND REMOVE SLAB CONCRETE WITHIN THE PERIMETER TO A NOMINAL 1/4" DEPTH CLEAN AND REMOVE ALL CONCRETE LAITANCE.
C. RESURFACE THE AREA BY APPLYING A POLYMER MODIFIED OR SILICA FUME ENHANCED CEMENTITIOUS REPAIR MORTAR, APPROVED BY THE ENGINEER, FOLLOWING THE MANUFACTURER'S SURFACE PREPARATION AND APPLICATION RECOMMENDATIONS. LEVEL AND FINISH THE SURFACE TO MATCH THE FLOOR SLAB SURROUNDING AREA.
- D-6
- PRIOR TO DEMOLITION OF SMALL OPENINGS (LESS THAN 6 INCHES IN SIZE) FOR PENETRATIONS, ETC., CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT. OPENINGS SHALL BE LOCATED TO AVOID CUTTING THROUGH EXISTING REINFORCEMENT, IF POSSIBLE. EXISTING REINFORCEMENT SHALL NOT BE CUT WITHOUT APPROVAL OF ENGINEER.
- D-7
- CONCRETE SURFACES LEFT EXPOSED FOLLOWING DEMOLITION SHALL BE SEALED WITH EPOXY RESIN COATING SUCH AS DURALKOTE 240 BY EUCLID CHEMICAL, OR APPROVED EQUAL.
- D-8
- DETAILED CONSTRUCTION AND DEMOLITION PLAN SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED BY THE ENGINEER AND OWNER PRIOR TO BEGINNING CONSTRUCTION. ANY SHUTDOWNS SHALL BE SUBMITTED TO, COORDINATED WITH, AND APPROVED BY THE OWNER. ONCE APPROVED, CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO OWNER PRIOR TO SHUTDOWN.

NONSTRUCTURAL COMPONENT ANCHORAGE AND BRACING

- A-1
- ANCHORAGE AND BRACING SHALL BE PROVIDED FOR NONSTRUCTURAL COMPONENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01 73 23 - ANCHORAGE AND BRACING OF NONSTRUCTURAL COMPONENTS. "NONSTRUCTURAL COMPONENTS" INCLUDES ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS OR SYSTEMS (AND THEIR SUPPORTS OR ATTACHMENTS) WHICH ARE PERMANENTLY ATTACHED TO A SUPPORTING STRUCTURE. DESIGN OF ANCHORAGE AND BRACING SHALL BE PROVIDED BY CONTRACTOR'S ENGINEER UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
- A-2
- ANCHORAGE AND BRACING OF ALL NONSTRUCTURAL COMPONENTS SHALL BE DESIGNED AND INSTALLED TO RESIST THE CONTROLLING LOAD COMBINATION OF GRAVITY LOADS, OPERATIONAL FORCES, WIND FORCES, SEISMIC FORCES, AND ANY OTHER APPLICABLE FORCES IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. WIND AND SEISMIC FORCES SHALL BE AS PER ASCE 7. COMPONENTS SHALL BE BOLTED, WELDED, OR OTHERWISE POSITIVELY FASTENED WITHOUT CONSIDERATION OF FRICTIONAL RESISTANCE PRODUCED BY THE EFFECTS OF GRAVITY. A CONTINUOUS LOAD PATH OF SUFFICIENT STRENGTH AND STIFFNESS TO RESIST REQUIRED FORCES SHALL BE PROVIDED BETWEEN THE COMPONENT AND THE SUPPORTING STRUCTURE. ANCHORAGE AND BRACING SHALL BE DESIGNED TO RESIST LOADS IN BOTH ORTHOGONAL DIRECTIONS (TRANSVERSE AND LONGITUDINAL) AND SHALL BE DESIGNED AND SEALED BY THE CONTRACTOR'S ENGINEER CURRENTLY REGISTERED IN THE STATE OF NEW YORK.
- A-3
- COMPONENT REACTION FORCES AT THE POINT OF ATTACHMENT TO THE STRUCTURE SHALL BE SUBMITTED TO AND COORDINATED WITH THE ENGINEER FOR CONFIRMATION THAT SUPPORTING STRUCTURE IS ADEQUATE TO RESIST REQUIRED REACTION FORCES.
- A-4
- CONTRACTOR SHALL PROVIDE SPECIAL SEISMIC CERTIFICATION (SSC) FROM MANUFACTURER OF EQUIPMENT FOR ALL SYSTEMS REQUIRED BY SPECIFICATIONS. SPECIAL SEISMIC CERTIFICATION SHALL BE IN COMPLIANCE WITH ASCE 7.

EXISTING INFORMATION

- X-1
- ALL EXISTING INFORMATION SHOWN ON THESE DRAWINGS INCLUDING LOCATION, DIMENSIONS, ELEVATIONS, AND CONFIGURATIONS IS DERIVED FROM THE FOLLOWING CONTRACT DRAWING AND IS NOT GUARANTEED TO BE COMPLETE OR CORRECT.
A. REMEDIAL WORK AT EXISTING SEWAGE TREATMENT PLANS AND PUMPING STATION SEWER DISTRICT NO 1 ROCKLAND COUNTY NY - 1977 BOWE, WALSH & ASSOCIATES.
B. POLLUTION ABATEMENT PROJECT ROCKLAND SEWAGE TREATMENT PLANT EXPANSION CONTRACT NO 82G - 1987 URS COMPANY.
C. MAIN PUMPING STATION BAR SCREEN ROOM 8 BAY GARAGE EXTENSION AND SLUDGE DE-WATERING PROJECT ROCKLAND COUNTY SEWER DISTRICT CONTRACT 96G - 1996.
- X-2
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR DEMOLITION AND MODIFICATIONS.

SPECIAL INSPECTIONS

- SI-1
- SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION 01 45 33, THE 2020 NEW YORK STATE BUILDING CODE AND DRAWING S-16.

DELEGATED STRUCTURAL DESIGN ITEMS

- DSD-1
- THE FOLLOWING ITEMS SHALL BE SUBMITTED AS DELEGATED STRUCTURAL DESIGNS DURING CONSTRUCTION, IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

A. EXCAVATION SUPPORT SYSTEMS
B. HANDRAILS AND GUARDS
C. LADDERS
D. STAIRS AND PLATFORMS
E. ANCHORAGE AND BRACING OF NONSTRUCTURAL COMPONENTS NOT SPECIFICALLY DESIGNED AND DETAILED ON THE CONTRACT DRAWINGS (INCLUDING, BUT NOT LIMITED TO, PIPE SUPPORTS AND EQUIPMENT)
- DSD-2
- DRAWINGS AND CALCULATIONS FOR EACH ITEM SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.

0	BID	06/2024	PDS
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

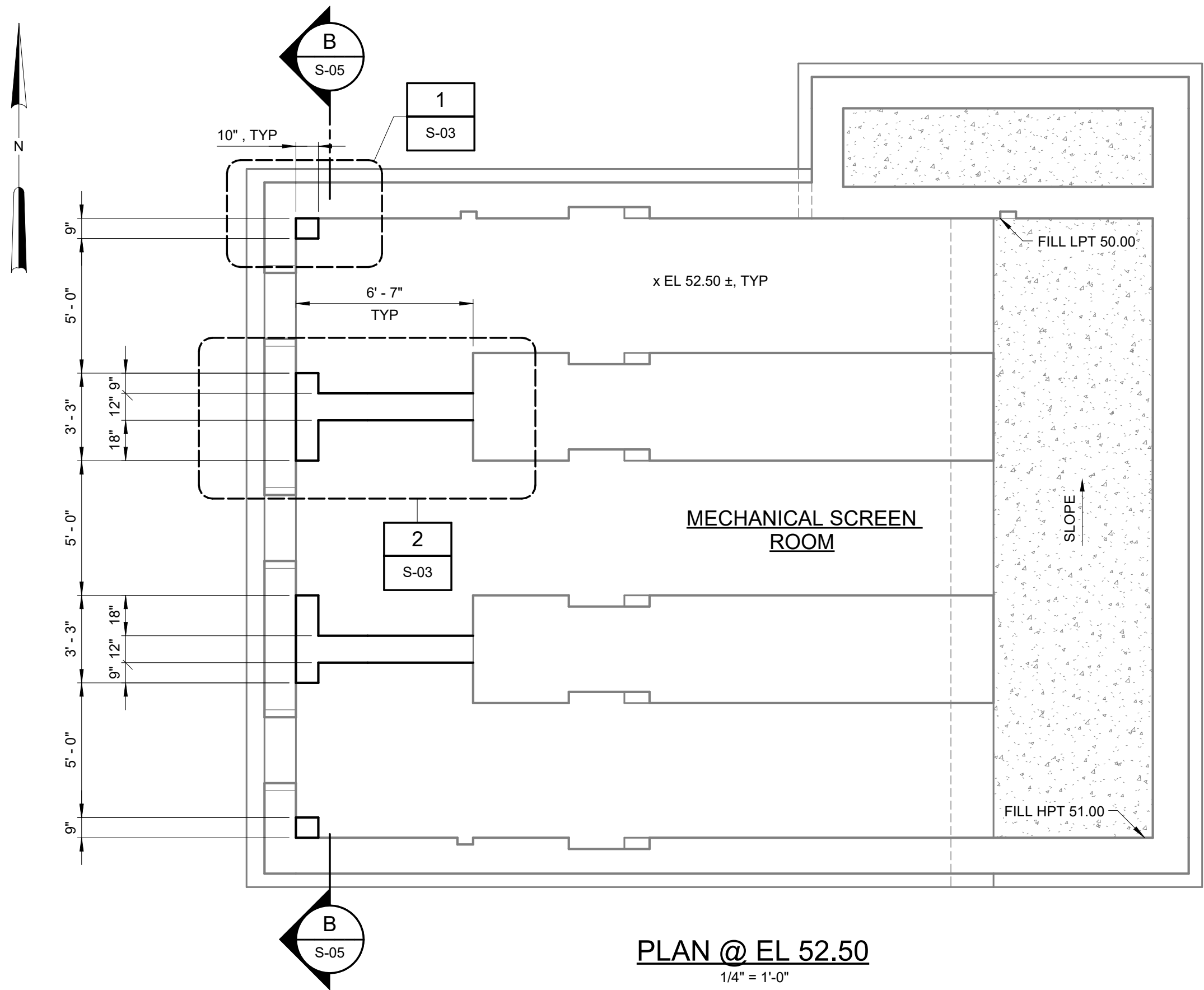
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

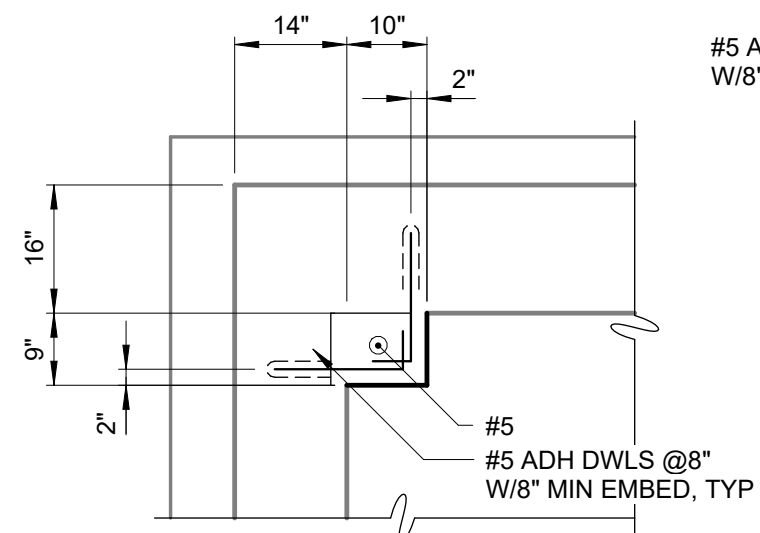
STRUCTURAL
GENERAL STRUCTURAL NOTES SHEET 2

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-02

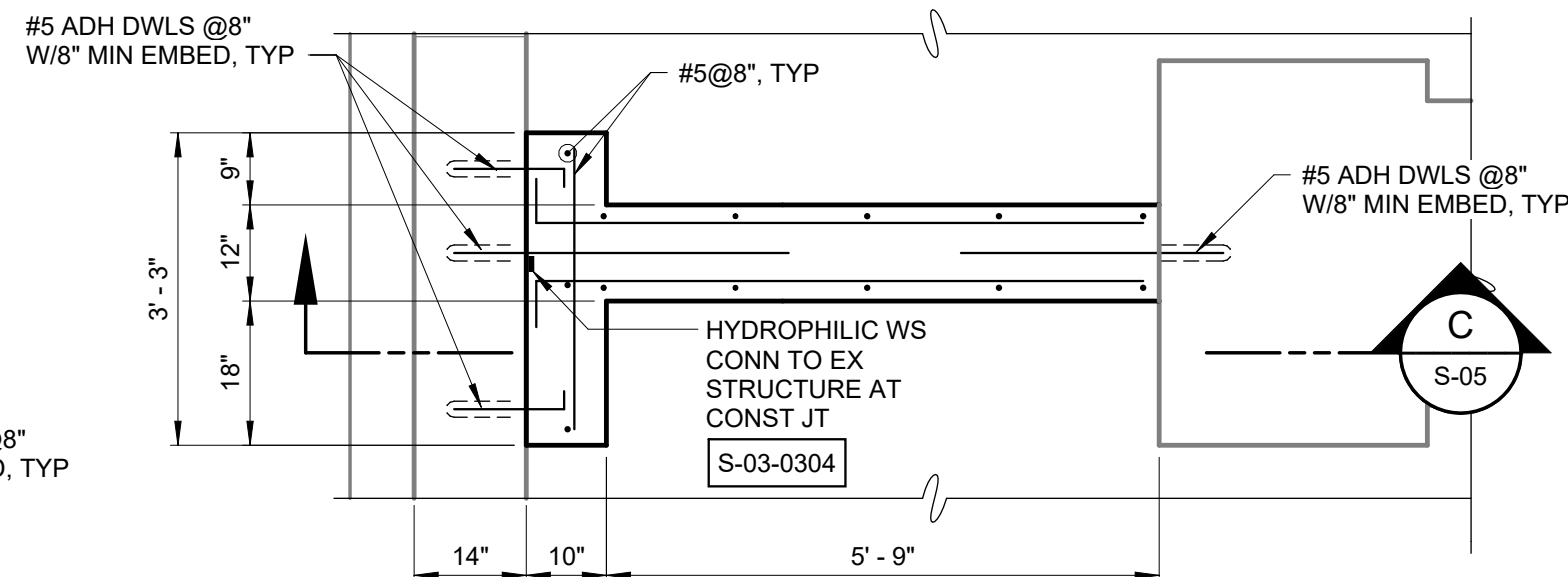
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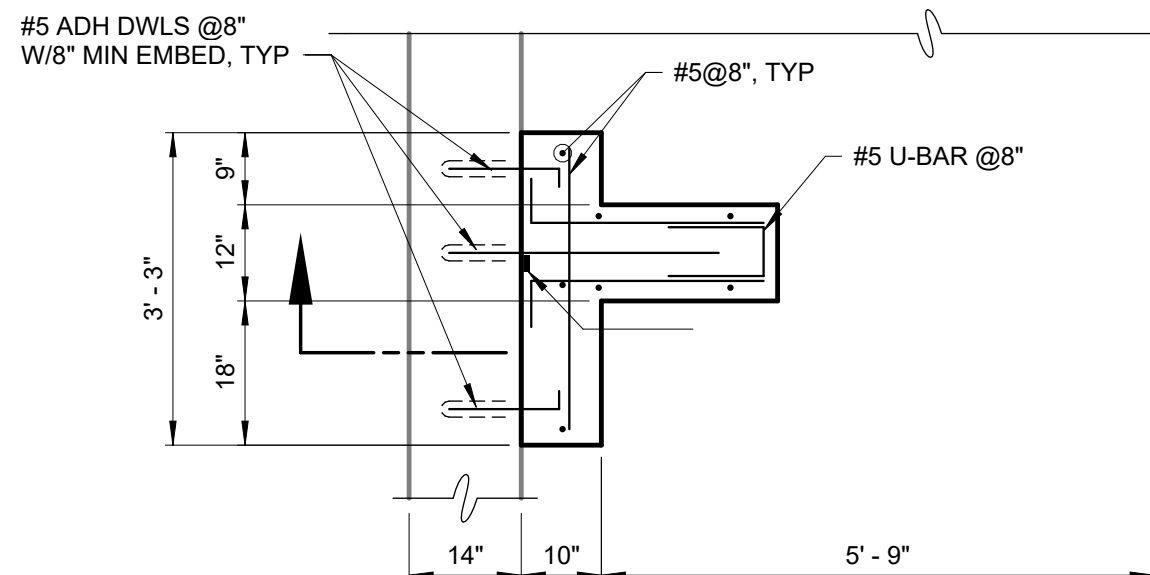
PLAN @ EL 52.50
1/4" = 1'-0"



DETAIL 1
1/2" = 1'-0"

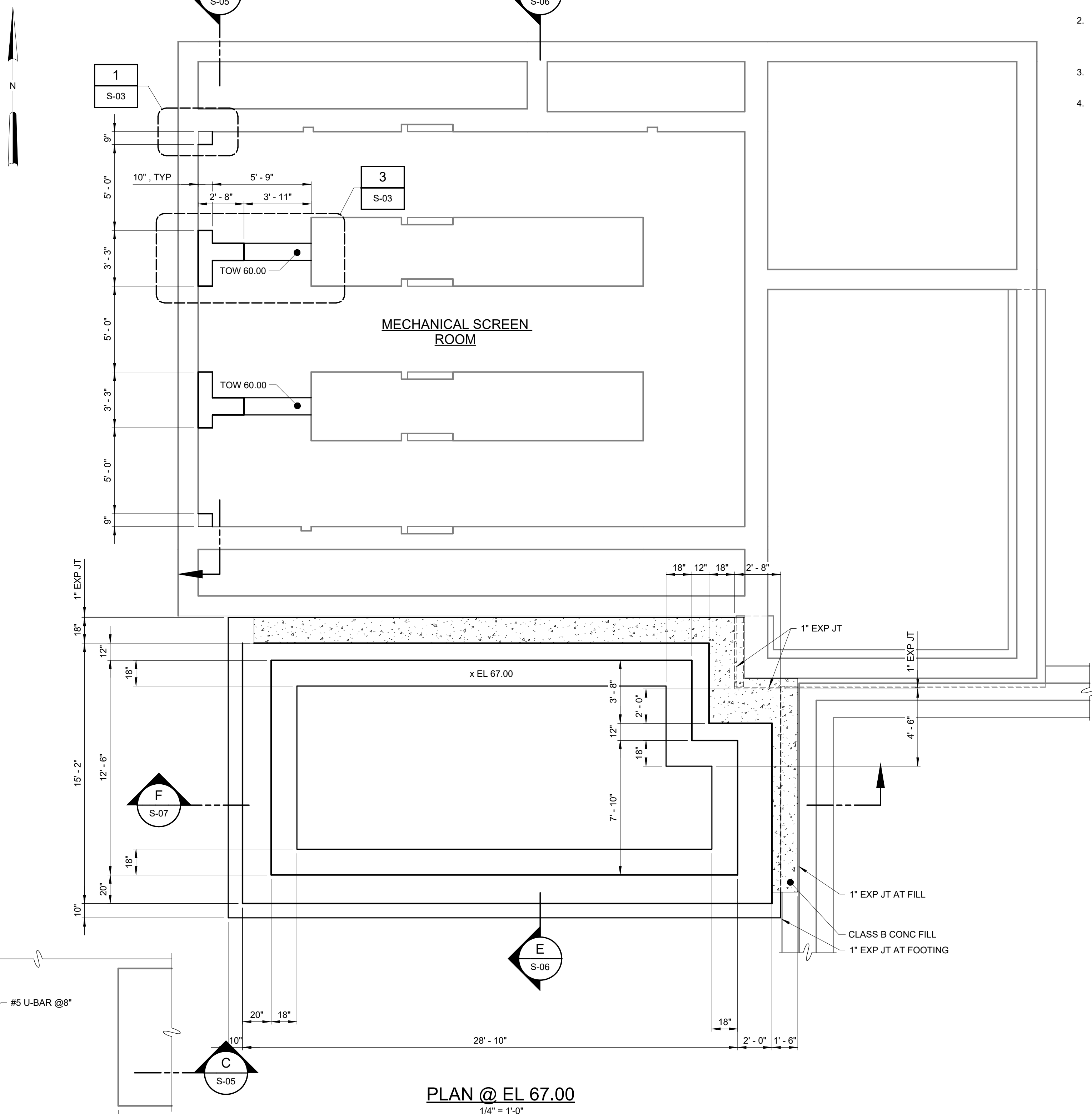


DETAIL 2
1/2" = 1'-0"



DETAIL 3
1/2" = 1'-0"

- NOTES:
1. ROUGHEN EXISTING CONCRETE SURFACE TO AN AMPLITUDE OF 1/4".
 2. APPLY EPOXY BONDING AGENT PRIOR TO CONCRETE POUR.



PLAN @ EL 67.00
1/4" = 1'-0"

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS
2. IF UNSUITABLE SOILS ARE ENCOUNTERED AT THE SUBGRADE ELEVATION, THESE MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.
3. CONTRACTOR SHALL NOT UNDERMINE EXISTING FOUNDATIONS.
4. ISOLATION SHALL BE COORDINATED WITH SPECIFICATION SECTION 01 14 00 - COORDINATION WITH OWNER'S OPERATIONS.



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0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



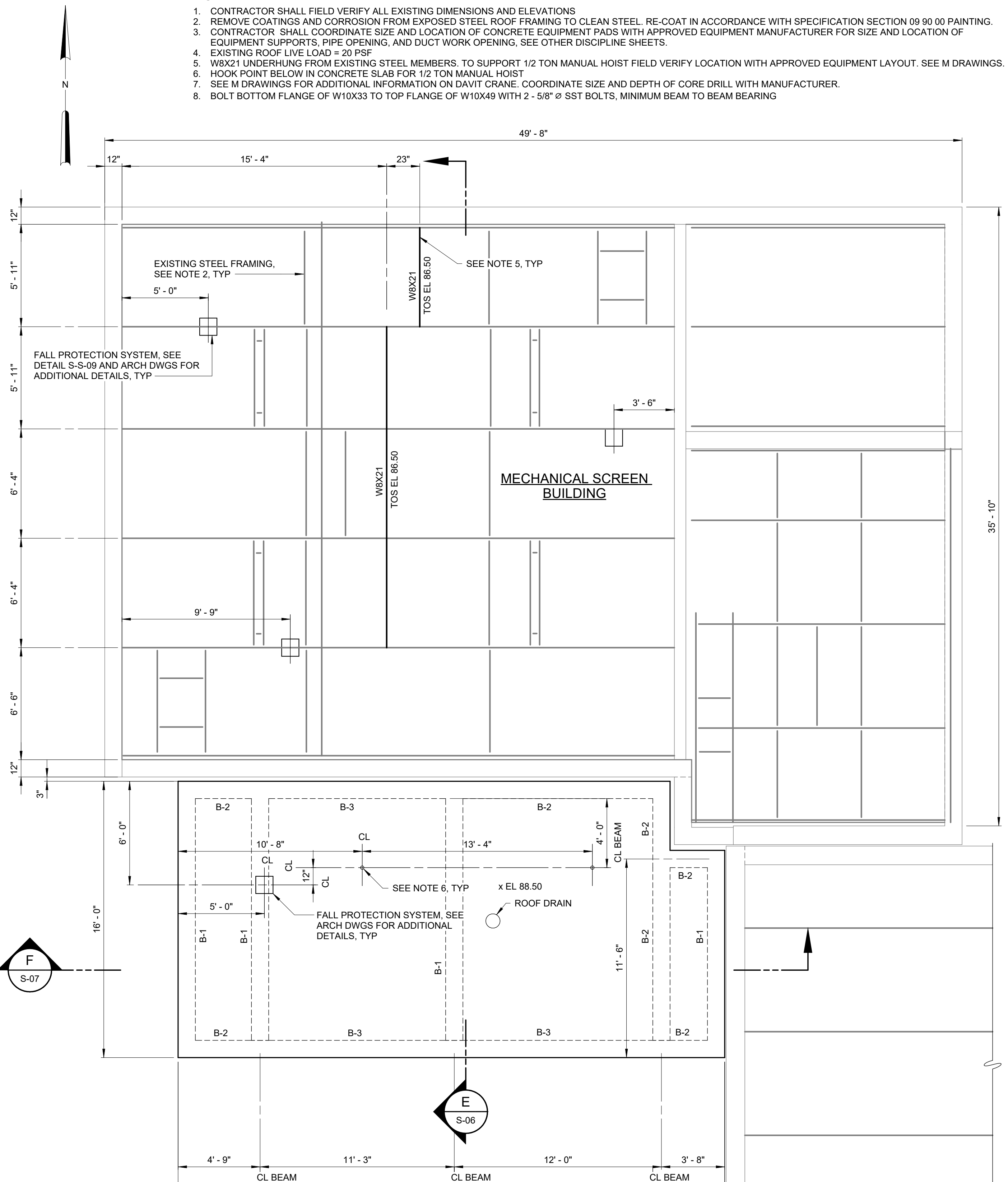
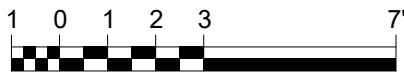
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498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018


ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

STRUCTURAL
PLANS EL 52.50 AND 67.00 AND DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-03


$$1/4'' = 1'-0''$$
$$1/4'' = 1'-0''$$


				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	S. MANZO
				DRAWN BY:	M. ROBLE
				CHECKED BY:	L. GIROUX
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 	
REV	ISSUED FOR	DATE	BY		

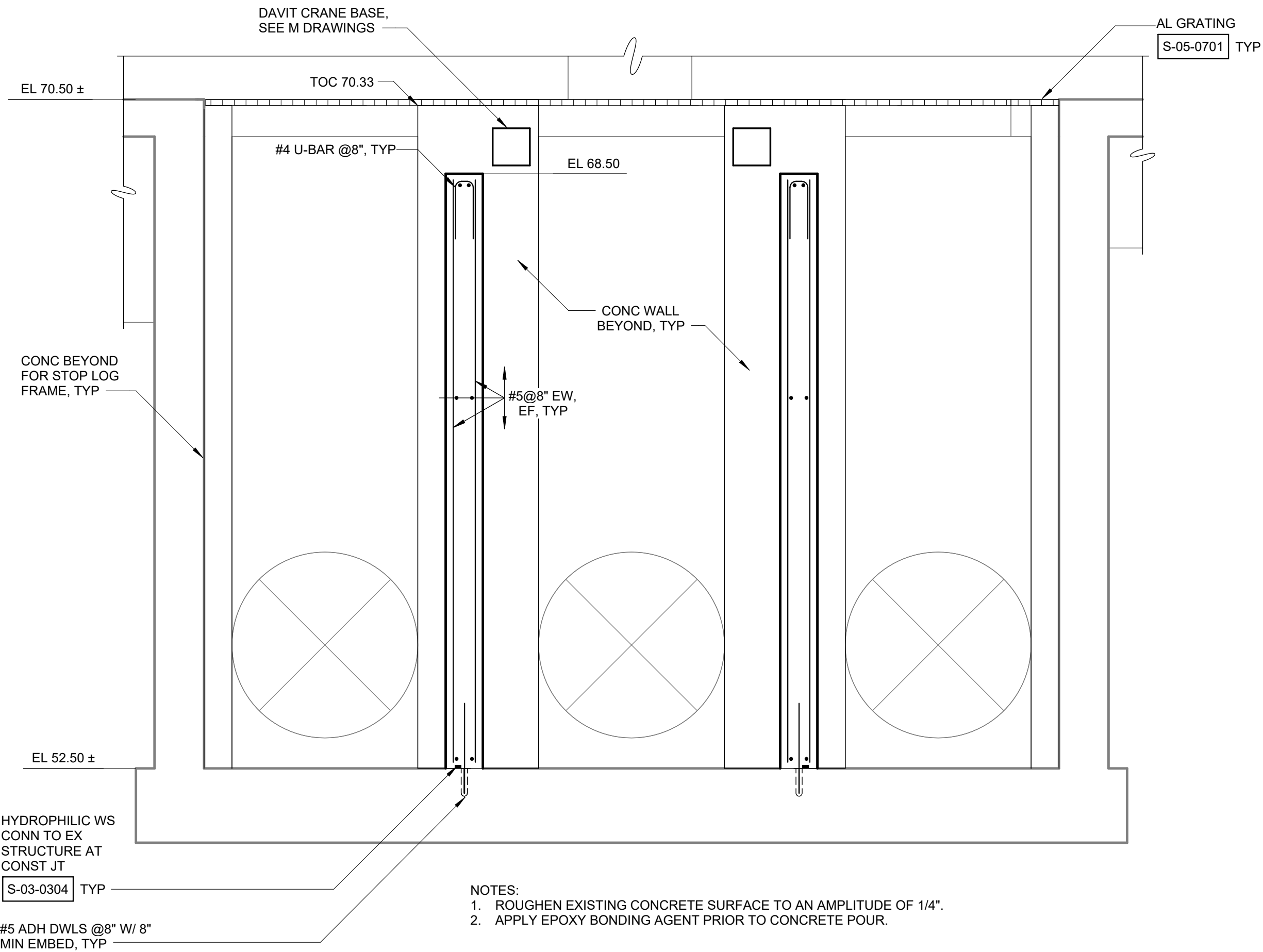
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NEW YORK, NEW YORK 10018

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

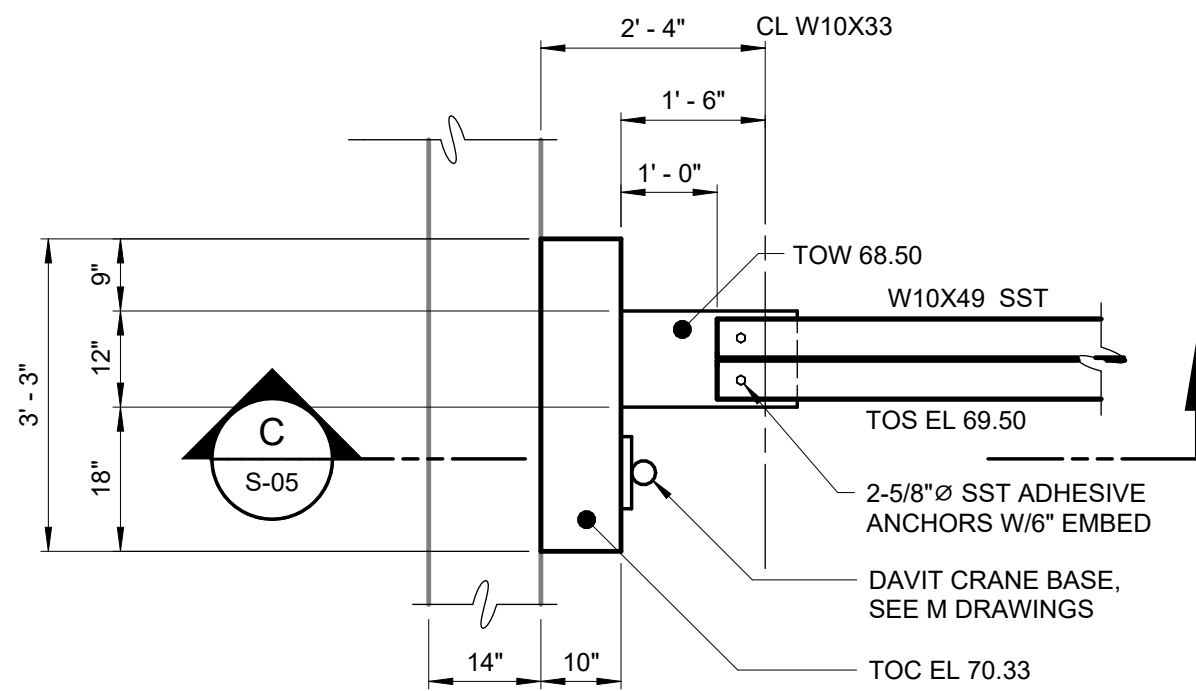
STRUCTURAL
PLANS EL 70.50 AND 88.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-04

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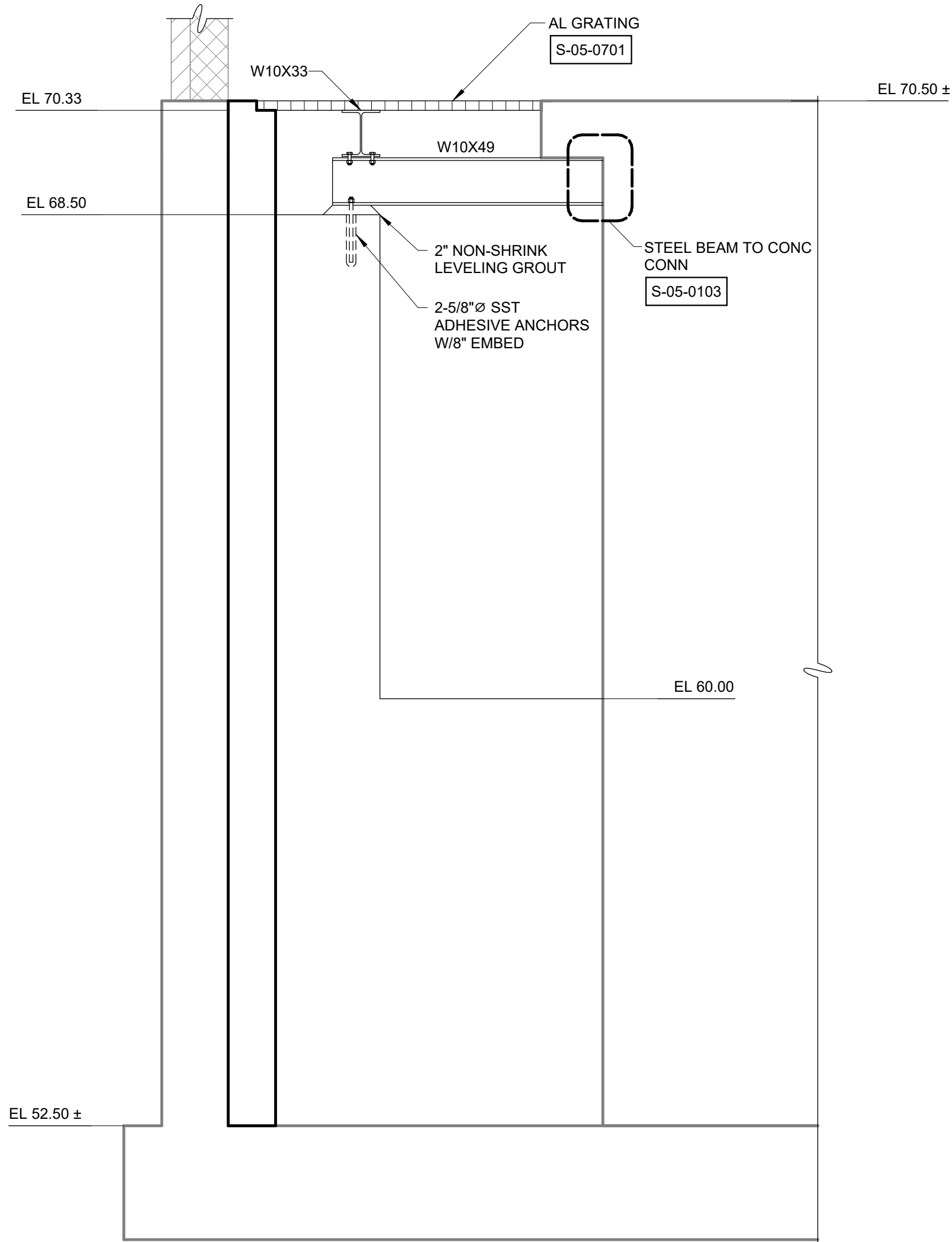


SECTION B
3/8" = 1'-0"



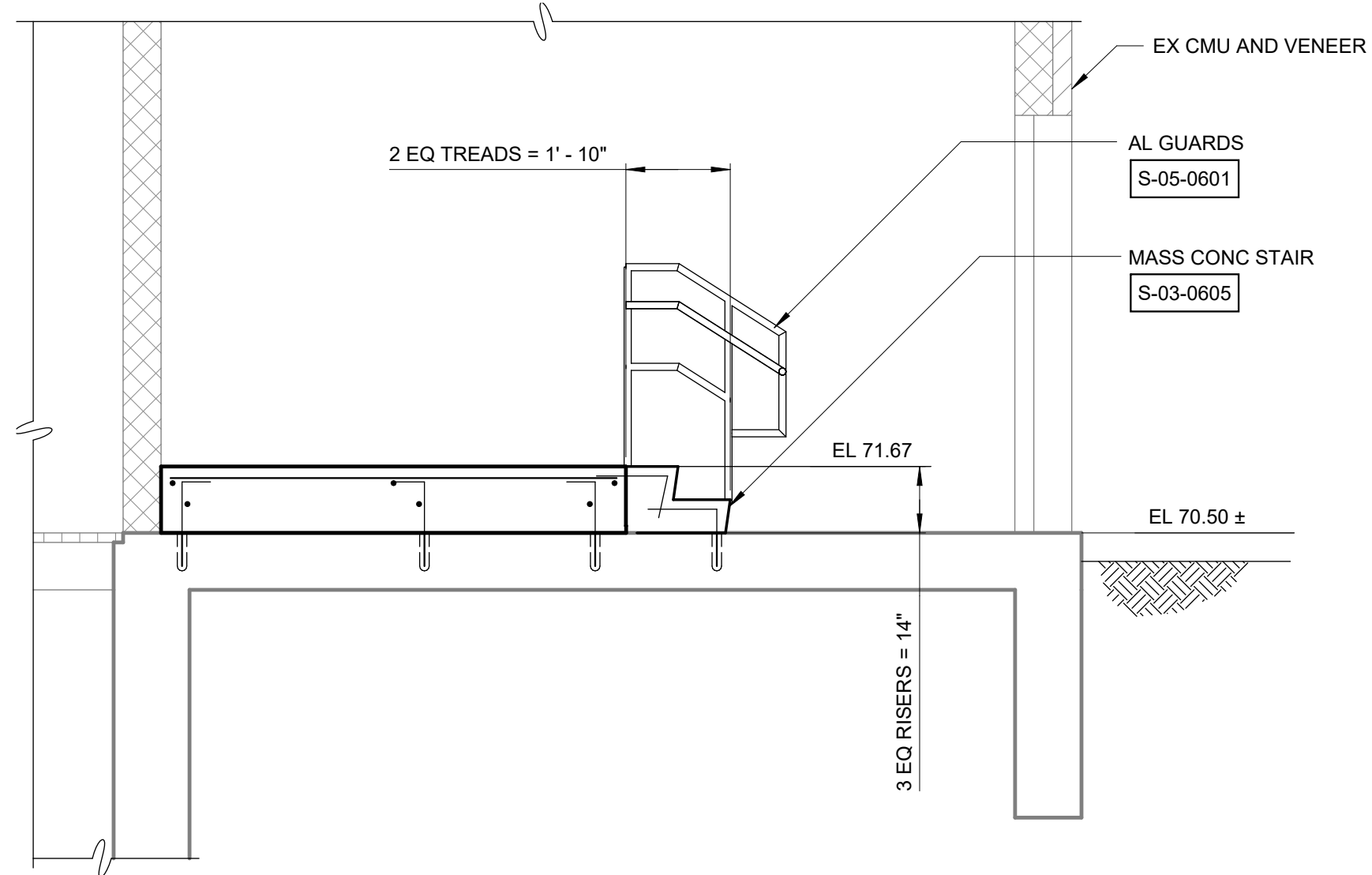
- NOTES:
1. W10X33 NOT SHOWN FOR CLARITY.
 2. 2" NON-SHRINK LEVELING GROUT BELOW W10X49.

DETAIL 1
1/2" = 1'-0"



- NOTES:
1. ROUGHEN EXISTING CONCRETE SURFACE TO AN AMPLITUDE OF 1/4"
 2. APPLY EPOXY BONDING AGENT PRIOR TO CONCRETE POUR.
 3. REINFORCING NOT SHOWN FOR CLARITY.

SECTION C
1/2" = 1'-0"



SECTION D
3/8" = 1'-0"



REV	ISSUED FOR	DATE	BY
0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



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HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

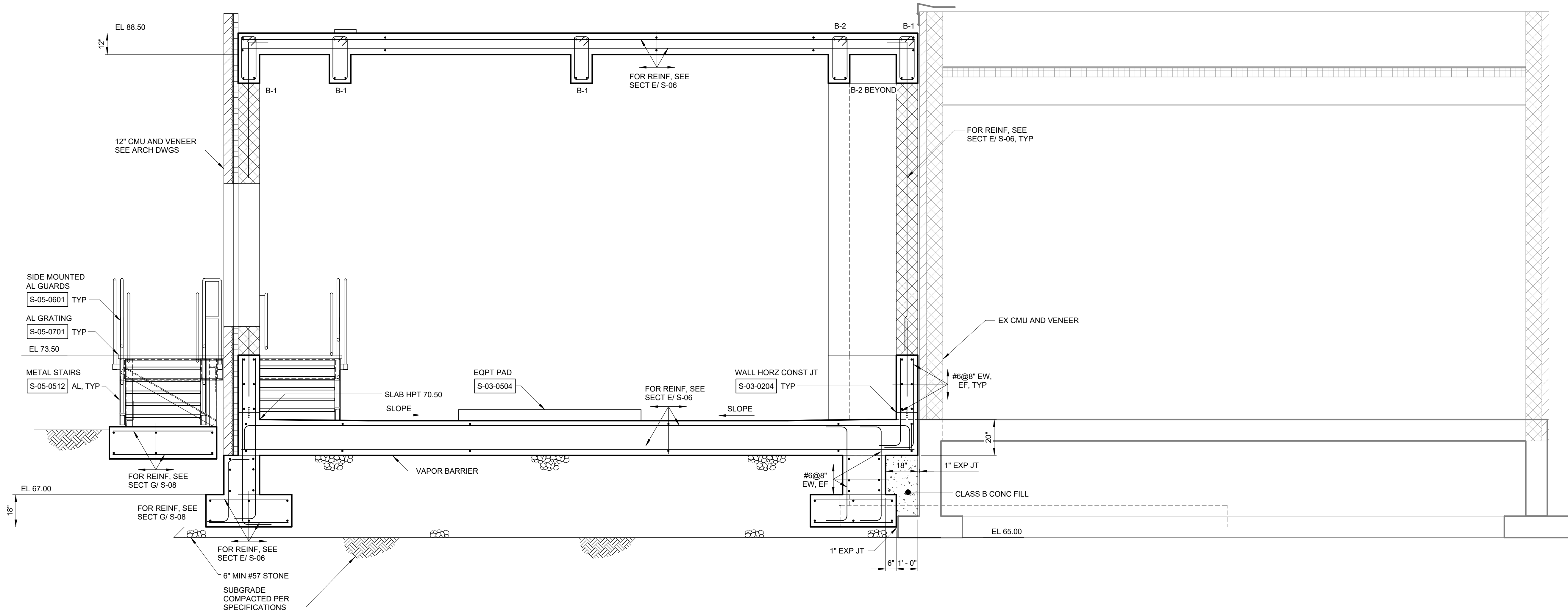
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

STRUCTURAL
SECTIONS - SHEET 1

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-05

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SECTION F
3/8" = 1'-0"



REV	ISSUED FOR	DATE	BY
0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID

Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

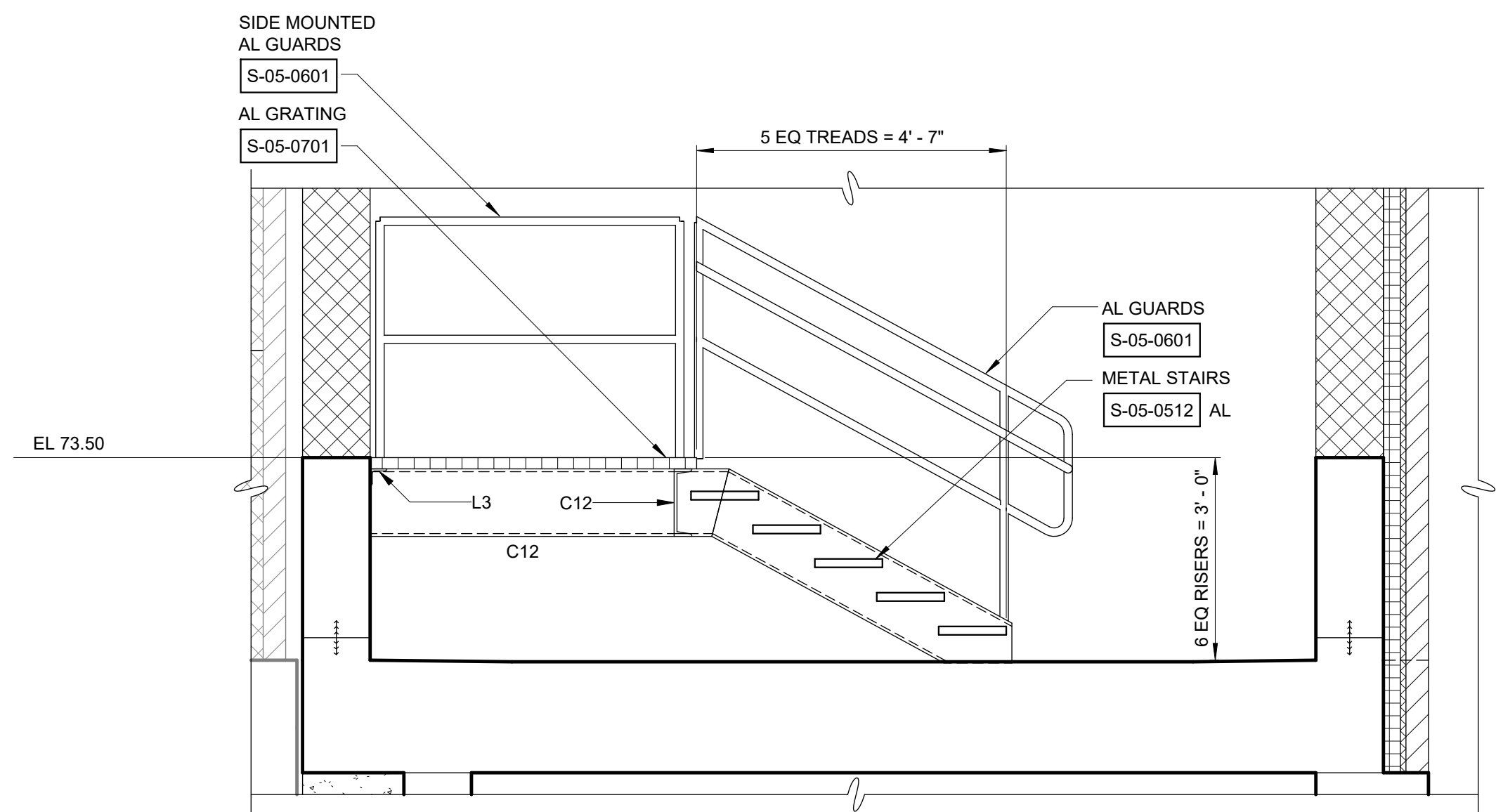
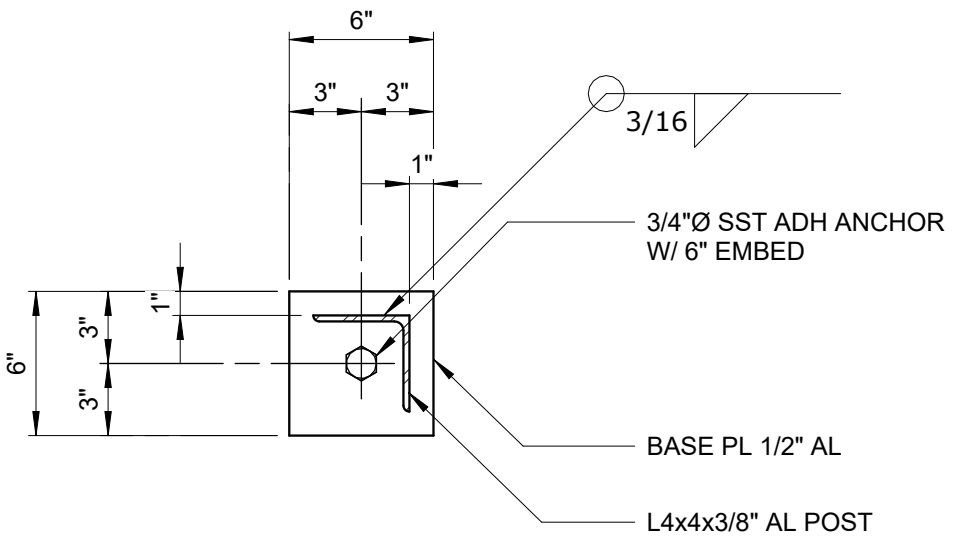
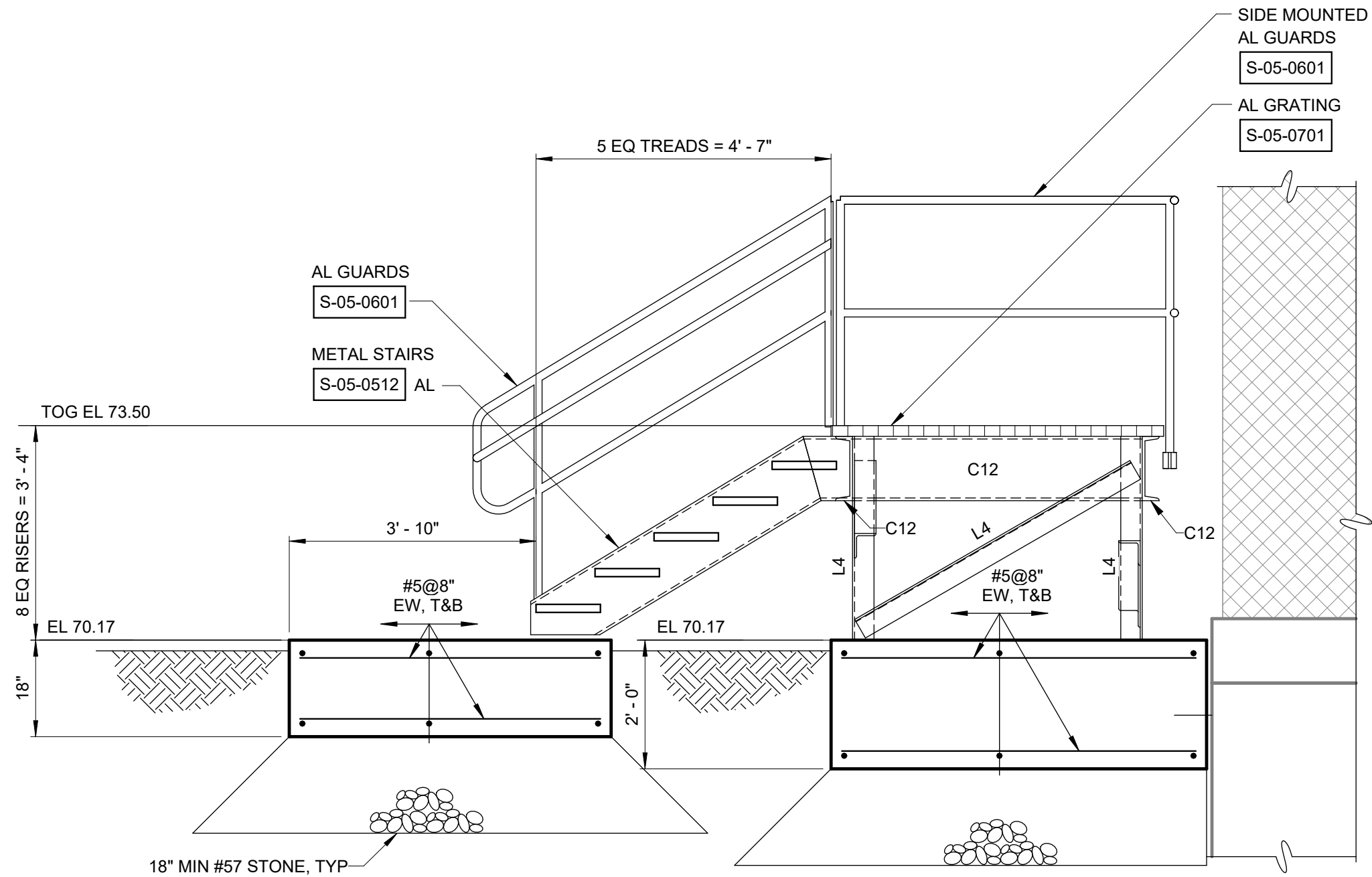
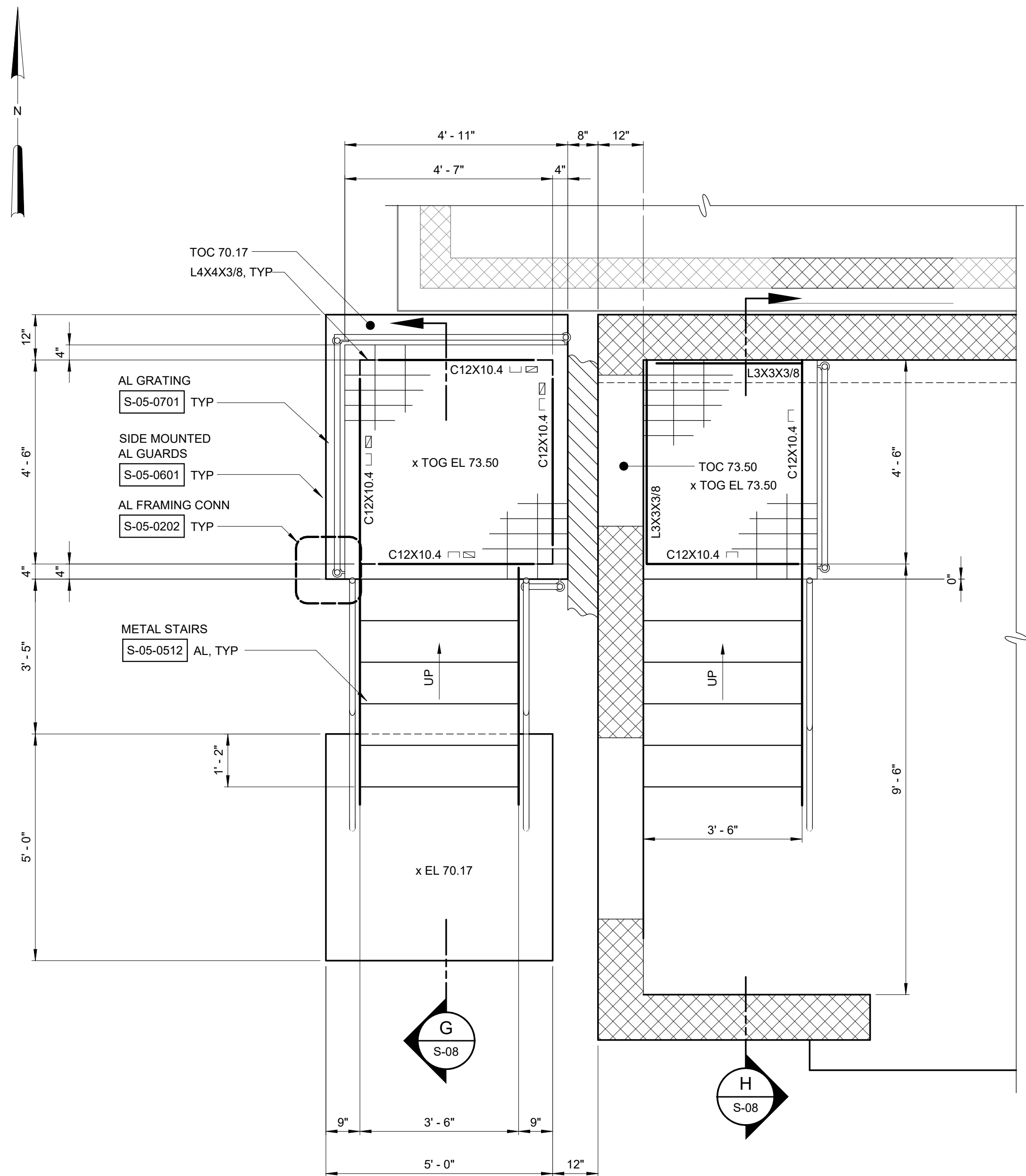
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

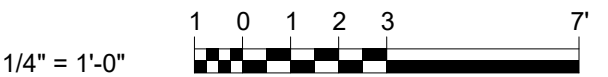
STRUCTURAL
SECTIONS - SHEET 3

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-07

NOTES:
1. DENOTES L4x4x3/8" DIAGONAL BRACING



NOTE:
REINF NOT SHOWN FOR CLARITY



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REV	ISSUED FOR	DATE	BY
0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID

Hazen

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498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

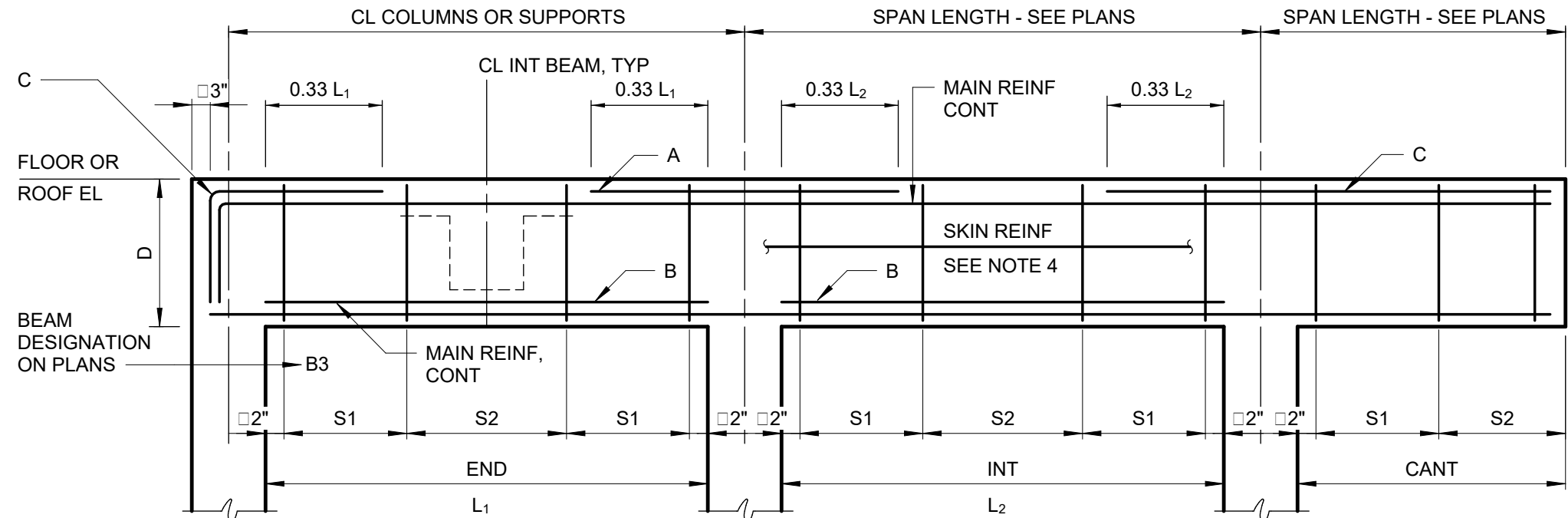
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

STRUCTURAL
ENLARGED STAIR PLAN AND SECTIONS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-08

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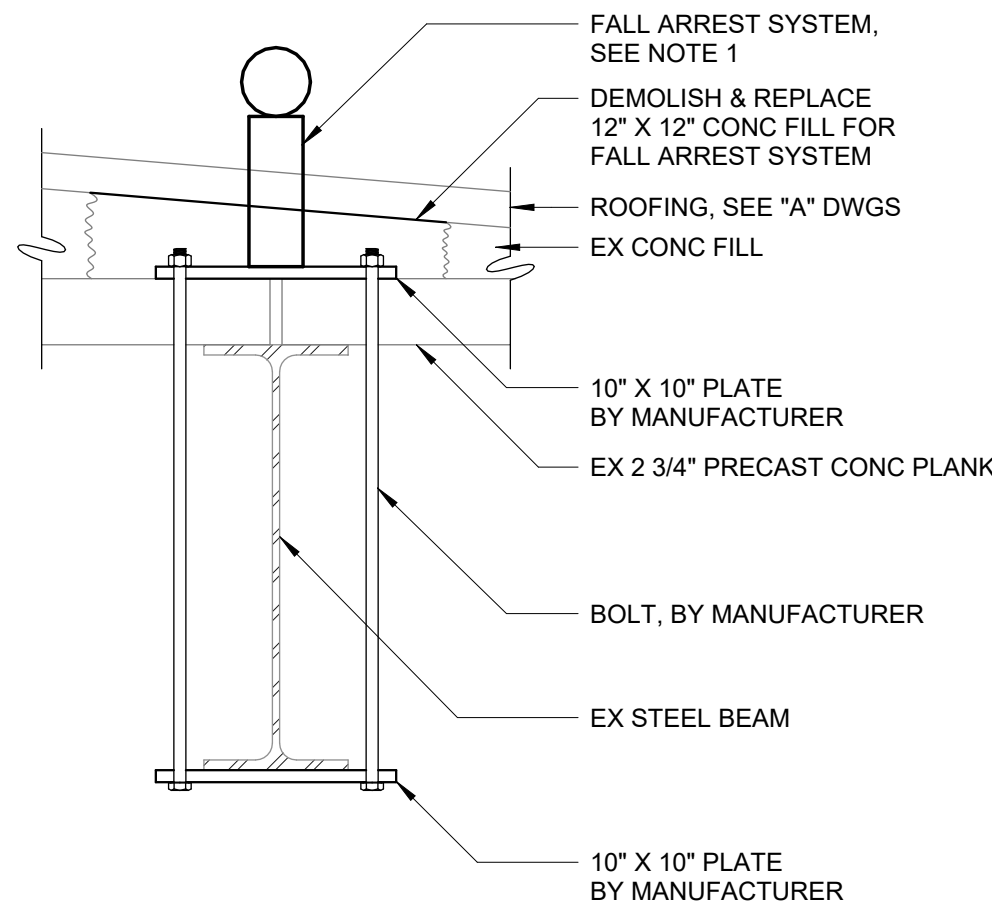
BEAM SCHEDULE															
MARK	COUNT	SPAN TYPE	SIZE		TOP ELEV	MAIN REINF		ADD REINF			S1 STIRRUPS		S2 STIRRUPS		REMARKS
			W"	D"		TOP	BOT	A	B	C	SIZE	SPACING	SIZE	SPACING	
B-1	4	SIMP	12"	28"	88.50	2-#8	2-#8				#3	8"	#3	8"	
B-2	7	END	12"	28"	88.50	2-#8	2-#8				#3	8"	#3	8"	
B-3	3	INT	12"	28"	88.50	2-#8	2-#8				#3	8"	#3	8"	
NOTE: 1. SEE STANDARD DETAIL S-03-1001 FOR TYPICAL BEAM ELEVATIONS.															



NOTES:

- WHERE BEAMS FRAME INTO CONCRETE WALLS, WALLS SHALL BE BLOCKED OUT FULL HEIGHT AND WIDTH OF BEAM TO PROVIDE A MINIMUM 8" SEAT FOR BEAM BEARING. WALL REINFORCEMENT SHALL NOT BE INTERRUPTED THROUGH BLOCKOUT.
- S1 = 2x"D" FOR STIRRUP SPACING SEE BEAM SCHEDULE
- CONTINUOUS BOTTOM BARS IN ALL BEAMS MAY BE SPLICED AT COLUMN CENTERLINES. CONTINUOUS TOP BARS MAY BE SPLICED AT MID-SPAN.
- UNLESS NOTED OTHERWISE, PROVIDE SKIN REINFORCEMENT BETWEEN TOP AND BOTTOM MAIN REINFORCEMENT AS FOLLOWS:
FOR BEAMS 18" OR LESS IN DEPTH, NO SKIN REINFORCEMENT IS REQUIRED
FOR BEAMS >18" THRU 36" IN DEPTH, PROVIDE #5@12" EF
FOR BEAMS >36" THRU 84" IN DEPTH, PROVIDE #5@6" EF
FOR BEAMS >84" IN DEPTH, SEE REMARKS IN BEAM SCHEDULE.
- ALL STIRRUPS SHALL BE CLOSED TIES, TYPE T1, (ACI 315) UNLESS NOTED OTHERWISE.
- SEE DRAWINGS FOR BEAM ELEVATION DIAGRAMS SPECIFICALLY REFERRED TO IN THE BEAM SCHEDULES.
- WHEN TWO LAYERS OF FLEXURAL REINFORCEMENT ARE REQUIRED THE SPACING BETWEEN THE LAYERS SHALL BE 3 INCHES.

TYPICAL BEAM ELEVATION
S-03-1001

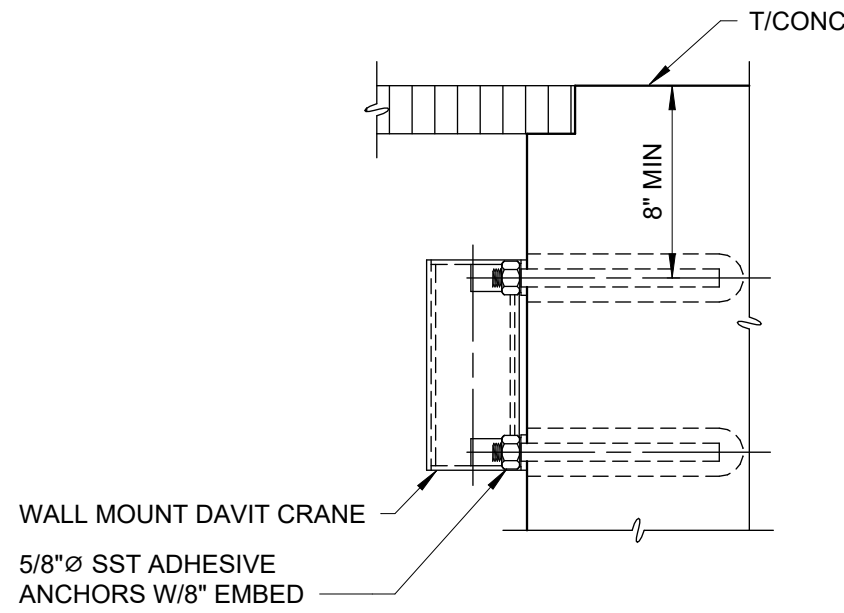


NOTE:

- FALL ARREST SYSTEM SHALL BE A BOLT AROUND TYPE KEE RIDGE ANCHOR - BOLT AROUND K&A-BLT BY KEE SAFETY OR EQUAL

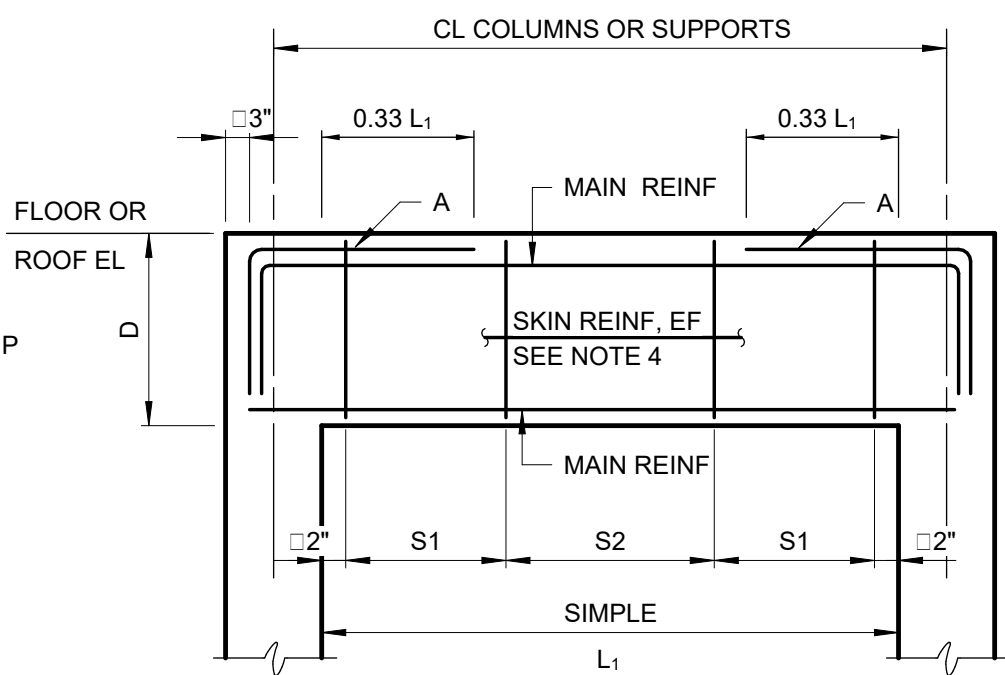
FALL PROTECTION ON STEEL BEAM DETAIL

DETAIL	3
1 1/2" = 1'-0"	S-04

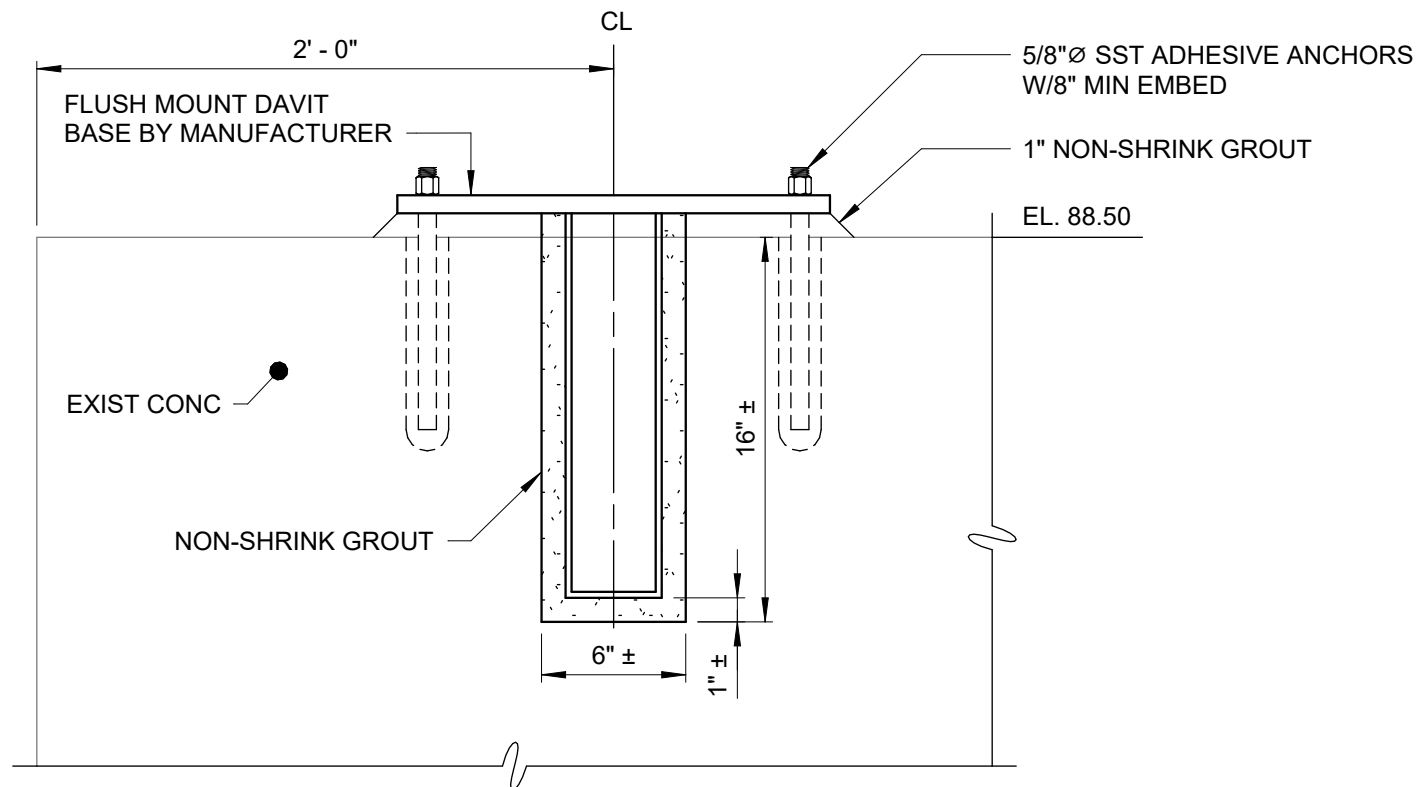


FALL PROTECTION WALL MOUNT
INSTALLATION DETAIL

DETAIL	4
1 1/2" = 1'-0"	S-04



TYPICAL BEAM SECTION

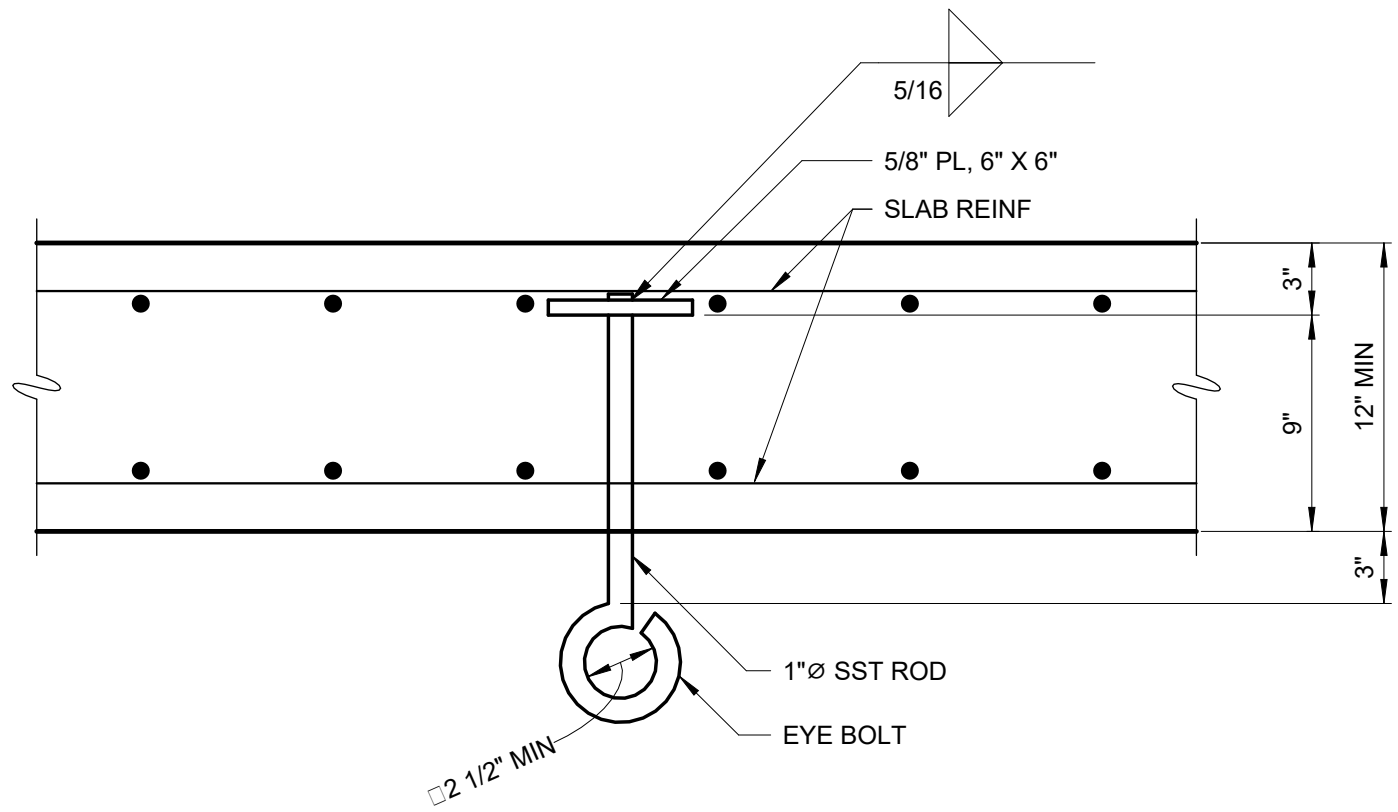


NOTE:

- MAX ALLOWABLE LOAD = 1200 LB

DAVIT CRANE FLUSH BASE INSTALLATION
DETAIL

DETAIL	5
1 1/2" = 1'-0"	S-04

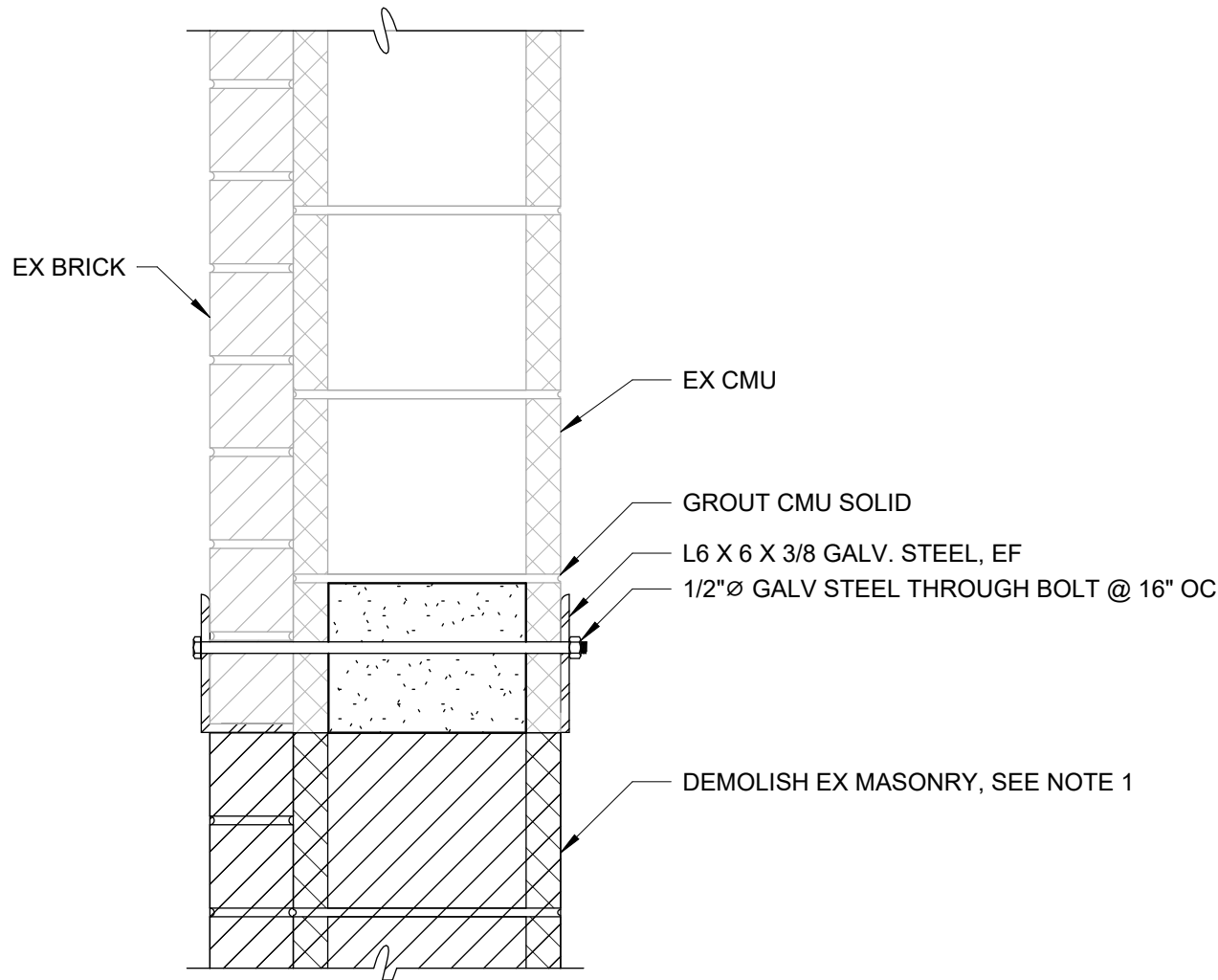


NOTE:

- MAX ALLOWABLE LOAD = 1/2 TON

EYE BOLT DETAIL

DETAIL	2
1 1/2" = 1'-0"	S-04



NOTES:

- INSTALL STEEL LINTEL PRIOR TO DEMOLISHING MASONRY BELOW
- MAXIMUM SPAN = 4' - 0"
- MINIMUM END BEARING - 4" MIN
- SAW CUT GROOVE IN MASONRY JOINT TO INSTALL STEEL LINTEL

RETROFIT STEEL LINTEL DETAIL

DETAIL	6
1 1/2" = 1'-0"	S-04



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PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



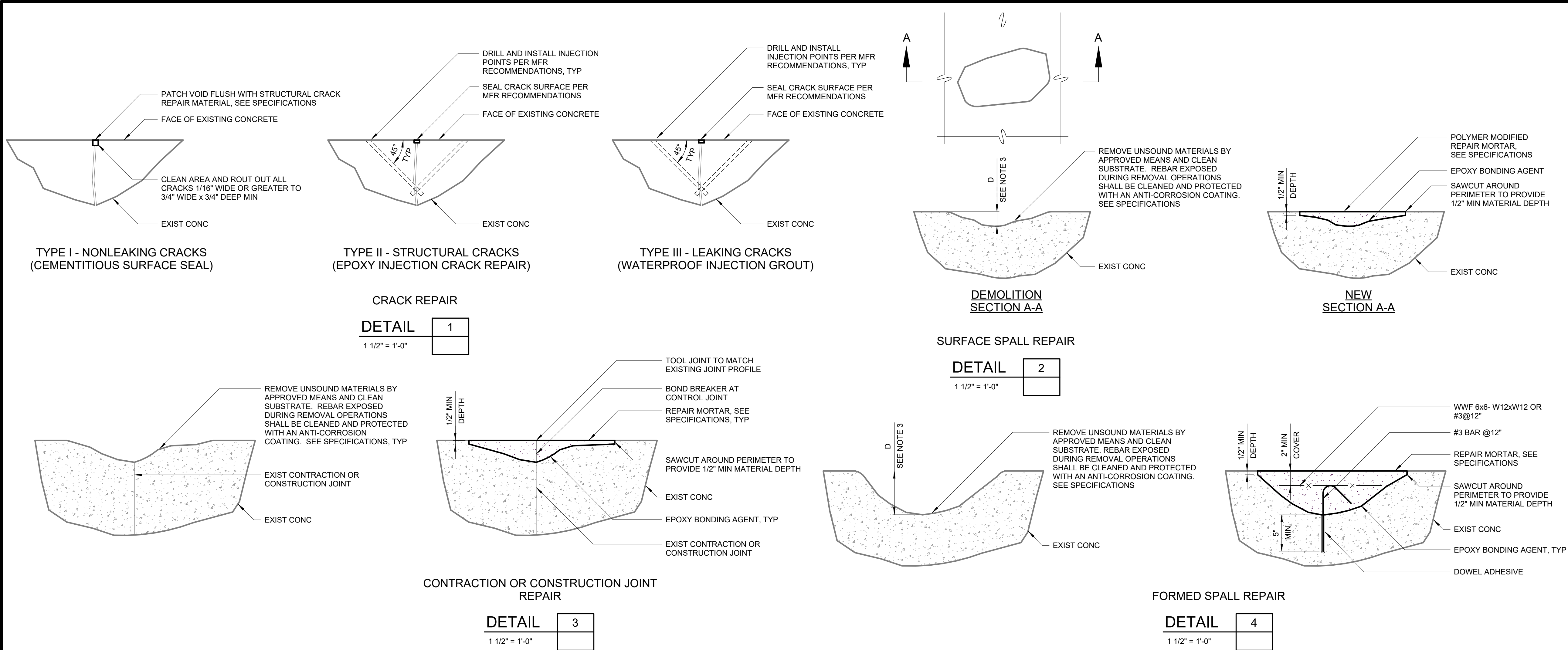
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

STRUCTURAL
BEAM DETAILS AND SCHEDULE

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-09



- NOTES:
1. CONCRETE REPAIR WORK SHALL BE PERFORMED PER SPECIFICATION SECTION 03 01 30 AND THE DETAILS ON THIS DRAWING.
 2. FOR EXISTING STRUCTURES LISTED IN THE TABLE: THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL DETERMINE THE EXTENT OF CRACKED OR DETERIORATED CONCRETE TO BE REHABILITATED AND/OR RESURFACED. FOR EACH STRUCTURE A SUMMARY OF WORK SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.
 3. SPALLED AND/OR DETERIORATED AREAS WHERE DEPTH "D" TO BE REPAIRED IS LESS THAN OR EQUAL TO 4" SHALL BE REPAIRED PER DETAIL 2. AREAS WHERE DEPTH "D" IS GREATER THAN 4" SHALL BE REPAIRED PER DETAIL 4.
 4. FOR PAYMENT PURPOSES, THE WIDTH OF CONTRACTION OR CONSTRUCTION JOINT REPAIR SHALL BE LIMITED TO 4 INCHES MAXIMUM MEASURED EITHER WAY FROM THE CENTERLINE OF THE JOINT. DETERIORATED CONCRETE AT A JOINT WIDER THAN 4 INCHES SHALL BE PAID AS A SPALL REPAIR.
 5. REFERENCE SPECIFICATION SECTION 01 20 00 MEASUREMENT AND PAYMENT FOR ESTIMATED CONCRETE REPAIR QUANTITIES AND ADDITIONAL INFORMATION ON ALL REPAIRS.
 6. THE CONTRACT LUMP SUM BID PRICE SHALL INCLUDE ALL WORK RELATING TO CONCRETE REPAIRS AS INDICATED HEREIN AND SPECIFIED IN SPECIFICATION SECTION 03 01 30 - REHABILITATION OF CAST IN PLACE CONCRETE. THE LISTED QUANTITIES BY WORK ITEM ARE INCLUDED IN THE LUMP SUM. ANY QUANTITIES OF CONCRETE REPAIR WORK ITEMS EXCEEDING THE LISTED QUANTITIES WILL BE PAID FOR BY UNIT PRICE ITEMS. SEE SPECIFICATION 01 20 00 - MEASUREMENT AND PAYMENT.
 7. FINAL QUANTITIES SHALL BE BASED ON FIELD CONDITIONS AND INSTALLED REPAIRS.

CONCRETE REPAIR QUANTITIES						
DESCRIPTION	TYPE I EPOXY CEMENTITIOUS SURFACE SEAL (LF)	TYPE II EPOXY INJECTION CRACK REPAIR (LF)	TYPE III WATERPROOF INJECTION GROUT CRACK REPAIR (LF)	SURFACE SPALL REPAIR MATERIAL (CF)	FORMED SPALL REPAIR MATERIAL (CF)	CONTRACTION OR CONSTRUCTION JOINT REPAIR (LF)
MECHANICAL SCREEN AREA	0	100	100	200	200	100

				PROJECT ENGINEER:	R. FROST
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				CHECKED BY:	L. GIROUX
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
0	BID	06/2024	PDS	0	1/2" 1"
REV	ISSUED FOR	DATE	BY		

FOR BID



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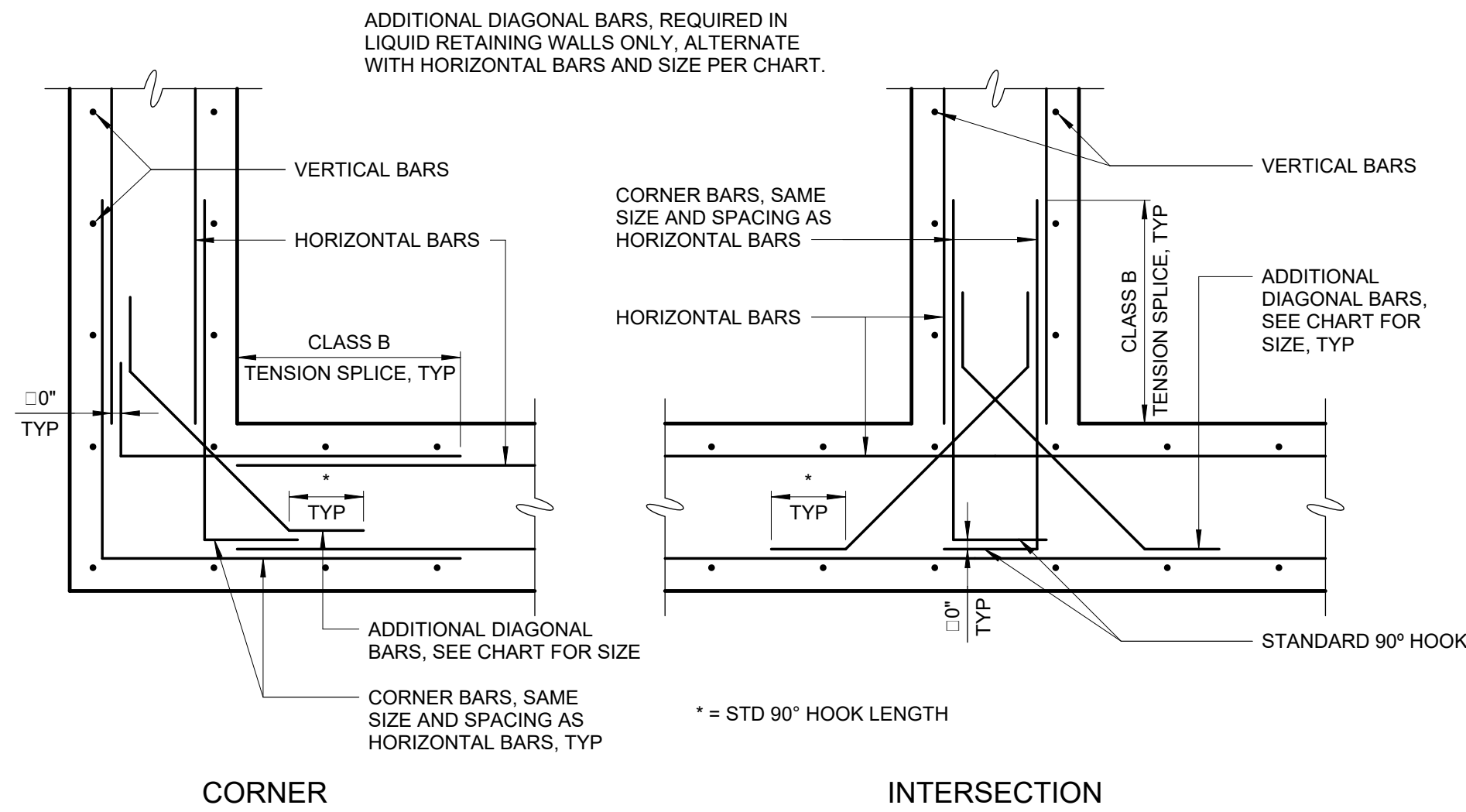
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SCREENING IMPROVEMENTS PROJECT

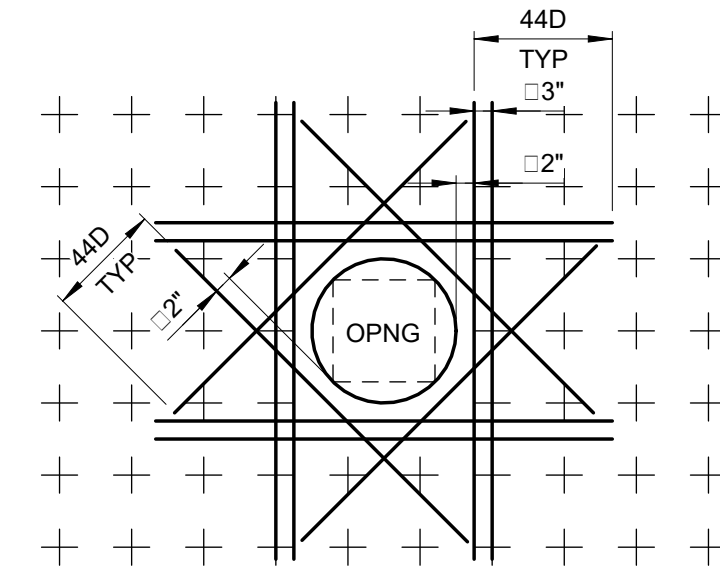
STRUCTURAL
CONCRETE REPAIR DETAILS AND NOTES

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-10



DIAGONAL BAR SIZE CHART	
BAR SIZE - HORIZONTAL REINFORCEMENT	BAR SIZE - DIAGONAL REINFORCEMENT
# 3	# 3
# 4	# 3
# 5	# 4
# 6	# 5
# 7	# 5
# 8	# 6
# 9	# 7
# 10	# 8
# 11	# 9

AT LOCATIONS WHERE DIFFERENT SIZE HORIZONTAL BARS CONVERGE, THE LARGER BAR SIZE SHALL CONTROL

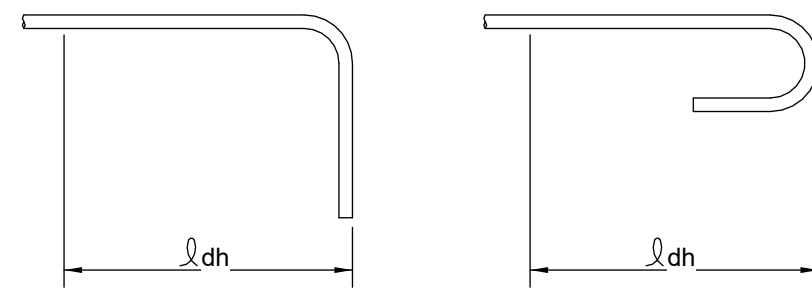


- NOTES:
- THIS DETAIL APPLIES FOR OPENINGS 8"Ø AND LARGER. FOR SMALLER OPENINGS, BEND BARS OR ADJUST SPACING OF REINFORCEMENT TO AVOID OPENING.
 - PLACE EXTRA BARS OF THE SAME SIZE AS THE INTERRUPTED BARS AT EACH SIDE OF OPENING. QUANTITY OF EXTRA BARS AT EACH SIDE SHALL EQUAL HALF THE QUANTITY OF INTERRUPTED BARS EXCEPT WHERE NOTED OTHERWISE.
 - PROVIDE ONE DIAGONAL BAR EACH SIDE OF OPENING WITH SIZE EQUAL TO MAIN REINFORCEMENT, TYPICAL EACH FACE.
 - WHERE INVERT OF OPENING IN WALL IS LESS THAN 44 BAR DIAMETERS FROM TOP OF SLAB, EXTRA REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH EXTRA VERTICAL REINFORCEMENT. DOWELS SHALL ALSO STILL BE PROVIDED BELOW OPENING.
 - WHERE INVERT OF OPENING IN WALL OR SLAB IS CLOSER THAN 44 BAR DIAMETERS TO EDGE OF SLAB OR BOTTOM OF WALL, EXTRA DIAGONAL BARS MAY BE TERMINATED TWO INCHES FROM EDGE OF SLAB OR BOTTOM OF WALL. DOWELS DO NOT HAVE TO BE PROVIDED TO SPLICE WITH DIAGONAL BARS.

DEVELOPMENT LENGTH OF STANDARD HOOKS

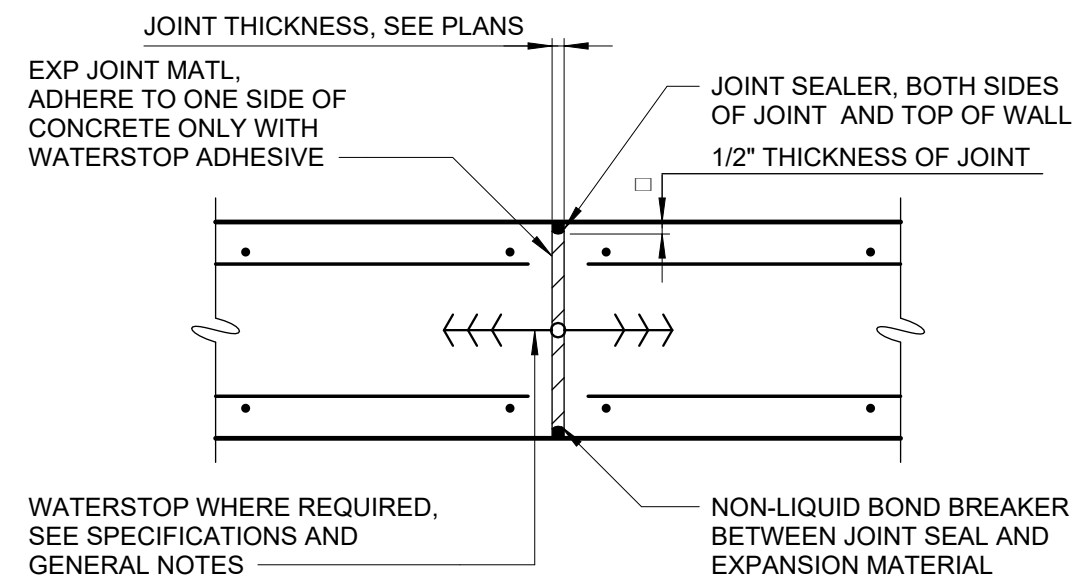
FOR UNCOATED BARS IN TENSION		
fy = 60,000 psi fc' = 4000 psi OR GREATER		
BAR SIZE	DEVELOPMENT LENGTH, ℓ_{dh}	
	BASIC	W/ CONC COVER *
#3	8"	6"
#4	10"	7"
#5	1'-0"	9"
#6	1'-3"	11"
#7	1'-5"	1'-0"
#8	1'-7"	1'-2"
#9	1'-10"	1'-4"
#10	2'-1"	1'-6"
#11	2'-3"	1'-7"

* SIDE COVER NORMAL TO PLANE OF HOOK AT LEAST 2 1/2"; AND FOR 90° HOOK, END COVER BEYOND OUTSIDE END OF HOOK AT LEAST 2".



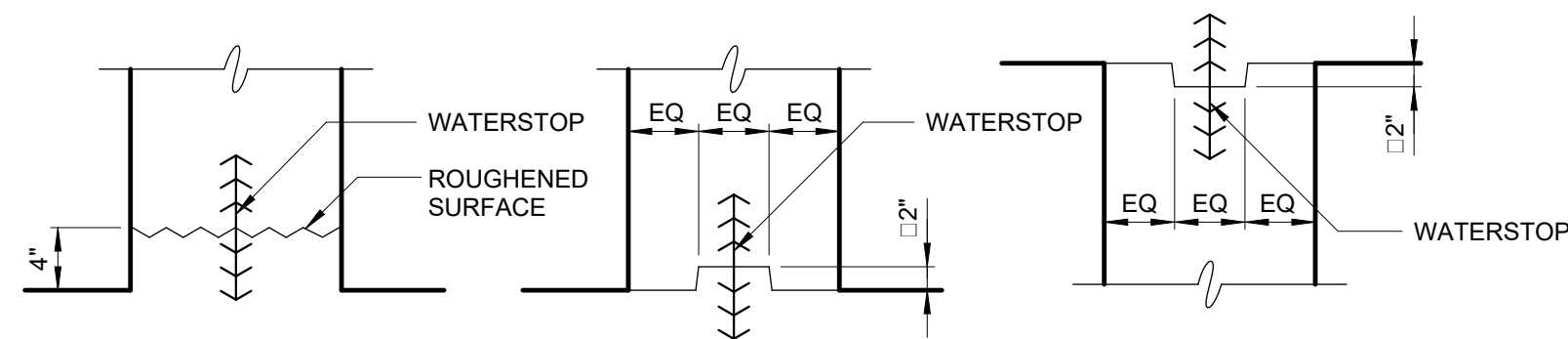
REINFORCING AT OPENINGS

S-03-0109



EXPANSION JOINT

S-03-0201

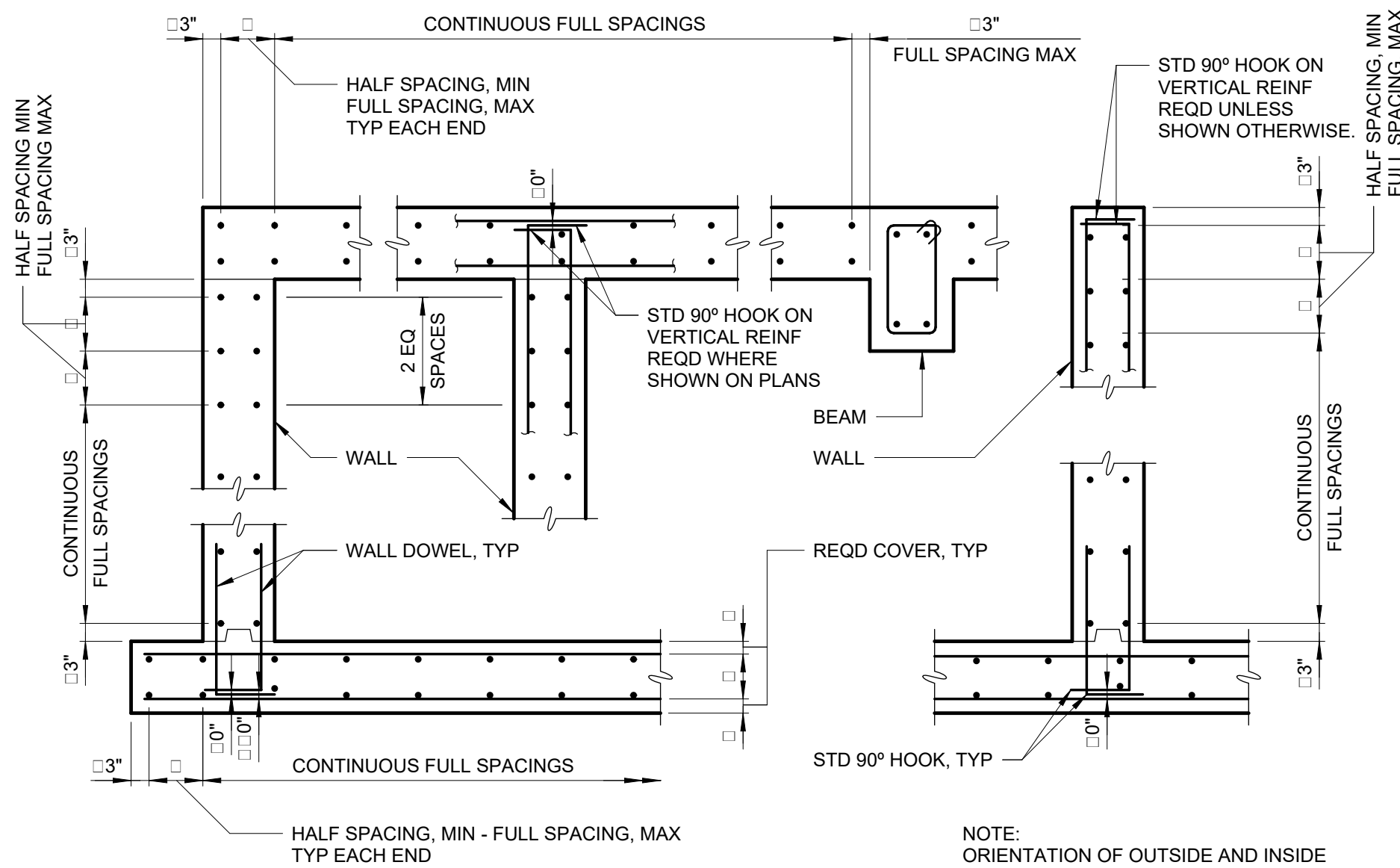


TYPE I - STARTER WALL TYPE II - KEYWAY TYPE III - INVERTED KEYWAY

- NOTES:
- TYPE I - STARTER WALL IS REQUIRED FOR ALL BASE OF WALLS 12 INCHES OR LESS IN THICKNESS WHERE WATERSTOPS ARE REQUIRED.
 - TYPE I - STARTER WALL IS PREFERRED, BUT TYPE II - KEYWAY IS ACCEPTABLE FOR BASE OF WALLS GREATER THAN 12 INCHES IN THICKNESS WHERE WATERSTOPS ARE REQUIRED.
 - TYPE III - INVERTED KEYWAY IS REQUIRED AT TOP OF WALLS WHERE WATERSTOPS ARE REQUIRED.

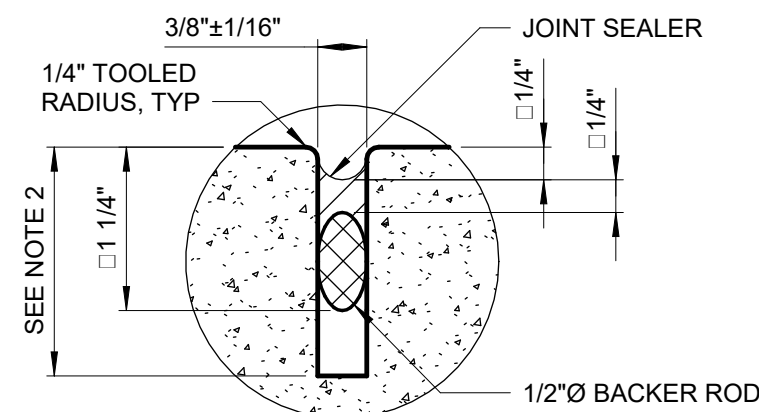
WALL HORIZONTAL CONSTRUCTION JOINTS

S-03-0204



NOTES:

- VERTICAL JOINTS SHALL BE FORMED BY AN APPROVED JOINT INSERT. HORIZONTAL JOINTS SHALL BE FORMED BY AN APPROVED JOINT INSERT OR SAWCUTTING PERFORMED PER SPECIFICATION.
- DEPTH SHALL BE 1 1/2" IN REINF CONCRETE DEPTH SHALL BE 1/3 OF CONCRETE THICKNESS IN UNREINFORCED CONCRETE PAVEMENT.

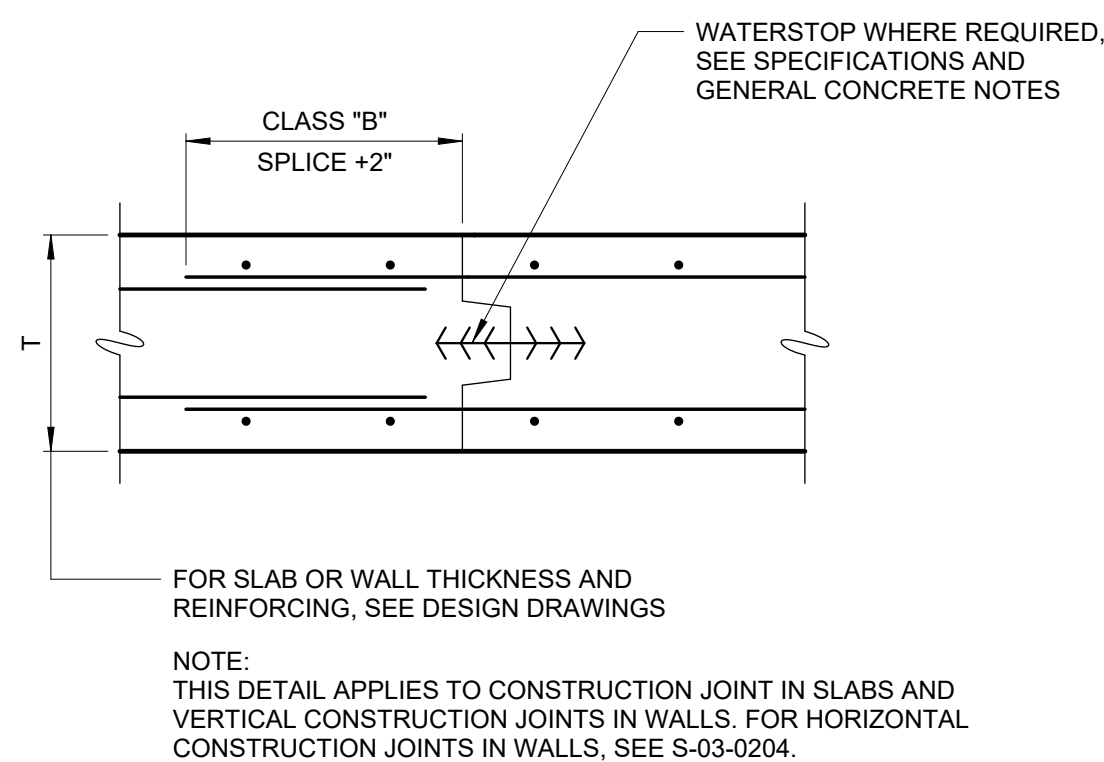


SEALED JOINT

S-03-0202

BAR PLACEMENT

S-03-0110



CONSTRUCTION JOINT

S-03-0203

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH

FOR UNCOATED BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:

fy = 60,000 psi fc' = 4000 psi OR GREATER

CLEAR COVER ≥ 1.5 INCHES NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH ℓ _d				BAR SIZE	CLASS B SPLICE LENGTH 1.3 x ℓ _d			
CLEAR SPACING ≥ 3"		CLEAR SPACING < 3"			CLEAR SPACING ≥ 3"		CLEAR SPACING < 3"	
BASIC	TOP *	BASIC	TOP *		BASIC	TOP *	BASIC	TOP *
1'-0"	1'-0"	1'-0"	1'-4"	# 3	1'-0"	1'-3"	1'-4"	1'-8"
1'-0"	1'-3"	1'-7"	2'-1"	# 4	1'-3"	1'-8"	2'-1"	2'-9"
1'-3"	1'-7"	2'-4"	3'-0"	# 5	1'-7"	2'-0"	3'-0"	3'-11"
1'-6"	1'-11"	3'-1"	4'-0"	# 6	1'-11"	2'-5"	4'-0"	5'-2"
2'-5"	3'-1"	4'-11"	6'-4"	# 7	3'-1"	4'-0"	6'-4"	8'-3"
3'-0"	3'-11"	6'-0"	7'-9"	# 8	3'-11"	5'-1"	7'-9"	10'-1"
3'-8"	4'-9"	6'-9"	8'-9"	# 9	4'-9"	6'-3"	8'-9"	11'-4"
4'-6"	5'-10"	7'-7"	9'-10"	# 10	5'-10"	7'-7"	9'-10"	12'-9"
5'-5"	7'-0"	8'-5"	10'-11"	# 11	7'-0"	9'-1"	10'-11"	14'-2"

* TOP REINFORCEMENT IS ANY HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

** FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318-14, SECTION 25.3.

0	BID	06/2024	PDS
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FOR BID



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STRUCTURAL
DETAILS - SHEET 1

DATE:	JUNE 2024
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DRAWING NUMBER:	

S-11

CRADLE PIPE SUPPORT
S-03-0505

PIPE OR CONDUIT EMBEDDED IN SLAB
S-03-0403

PIPE ENCASEMENTS
S-03-0404


EQUIPMENT SUPPORT PEDESTAL
S-03-0507

EXTERIOR EQUIPMENT FOUNDATION
S-03-0508

CONCRETE CURB
S-03-0603

EQUIPMENT PAD
S-03-0504

MASS CONCRETE STAIR
S-03-0605

				PROJECT ENGINEER:	R. FROST
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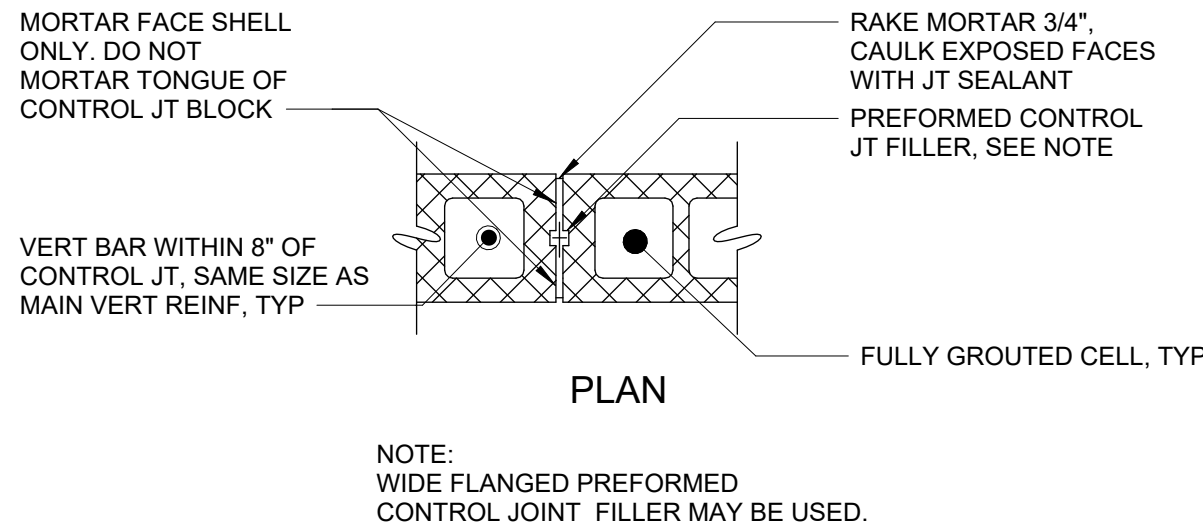
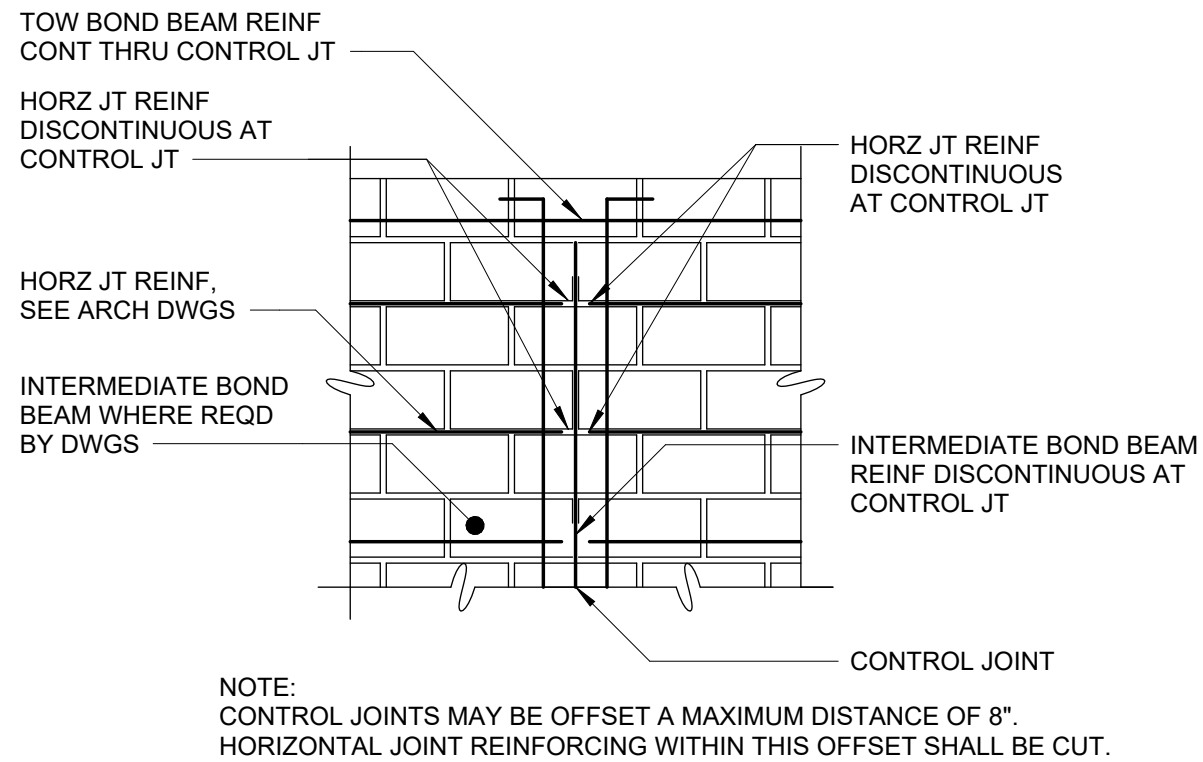
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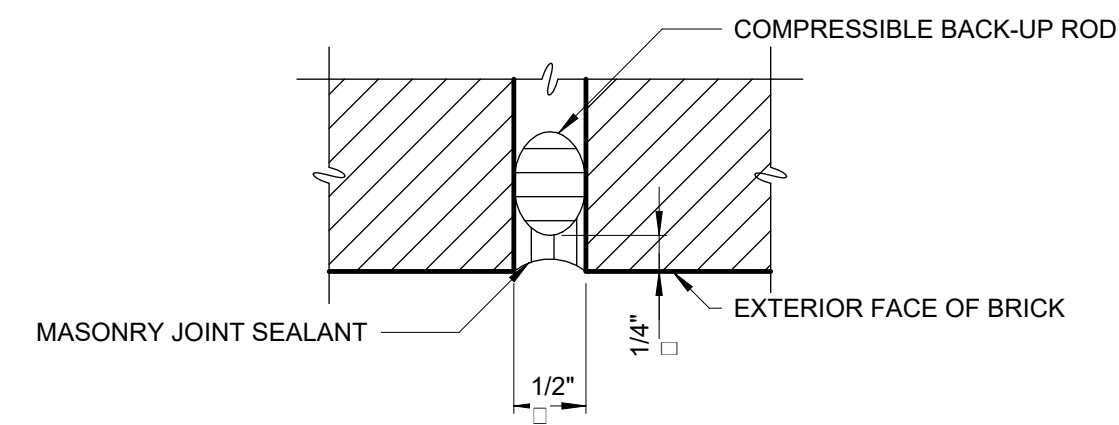
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ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

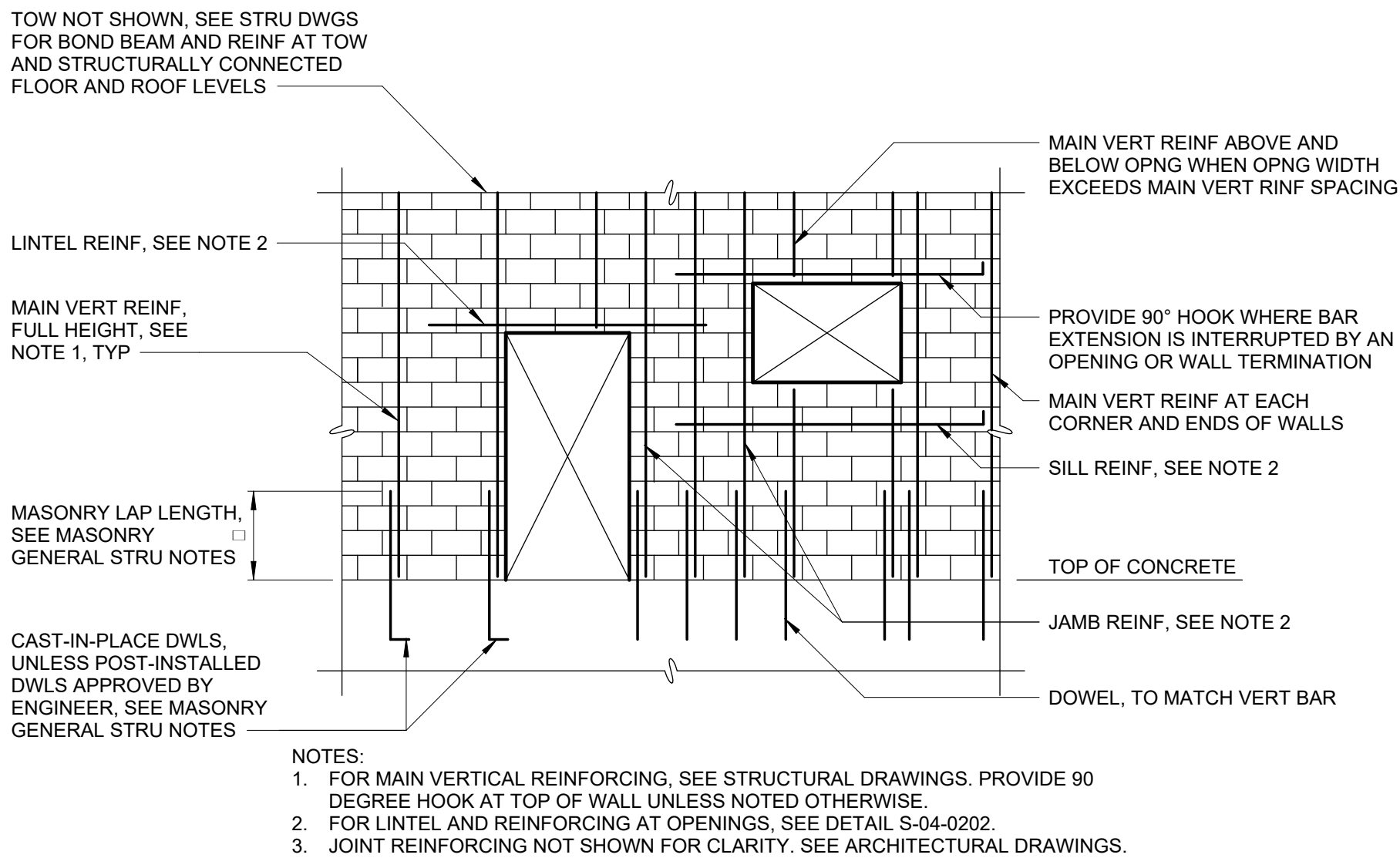
DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-12



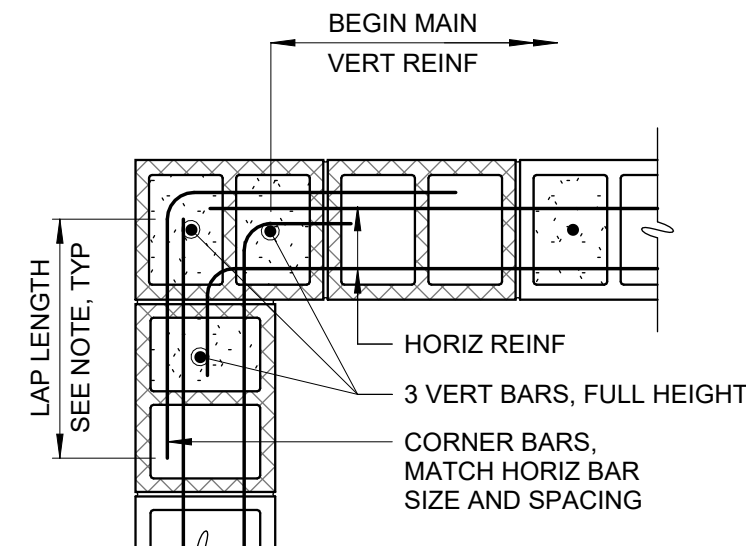
CONTROL JOINT BLOCK
S-04-0105



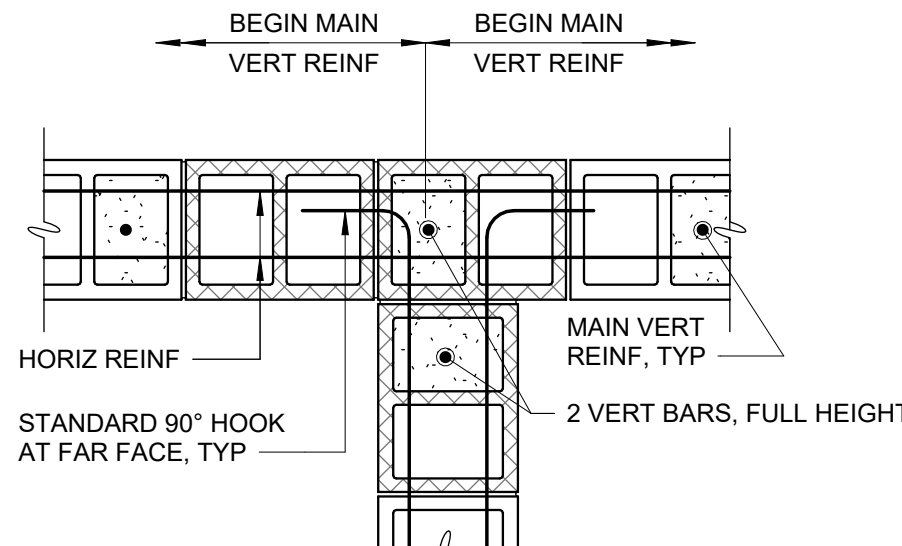
BRICK EXPANSION JOINT
S-04-0108



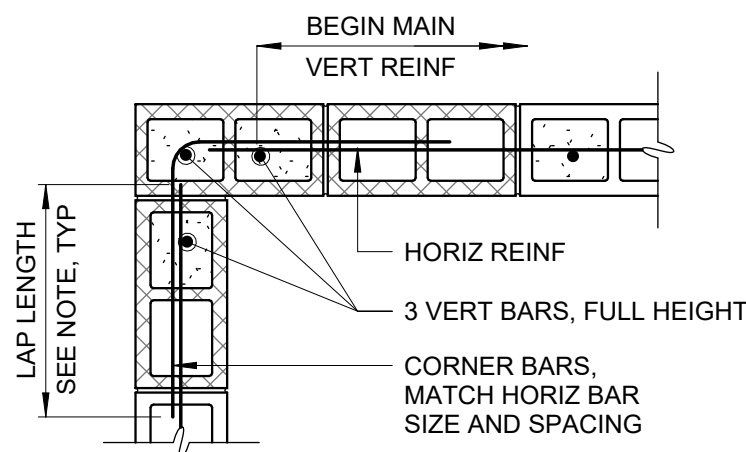
TYPICAL MASONRY REINFORCING ELEVATION
S-04-0201



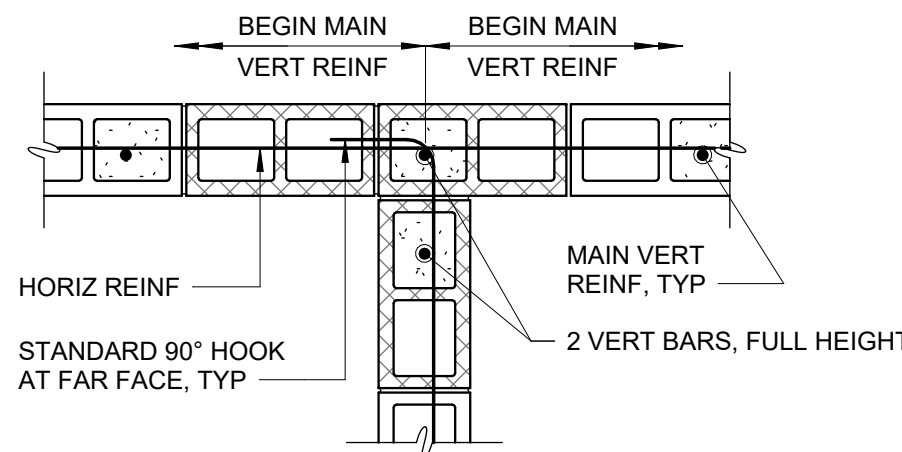
DOUBLE MAT
EXTERIOR CORNER PLAN



DOUBLE MAT
INTERIOR CORNER PLAN



SINGLE MAT
EXTERIOR CORNER PLAN



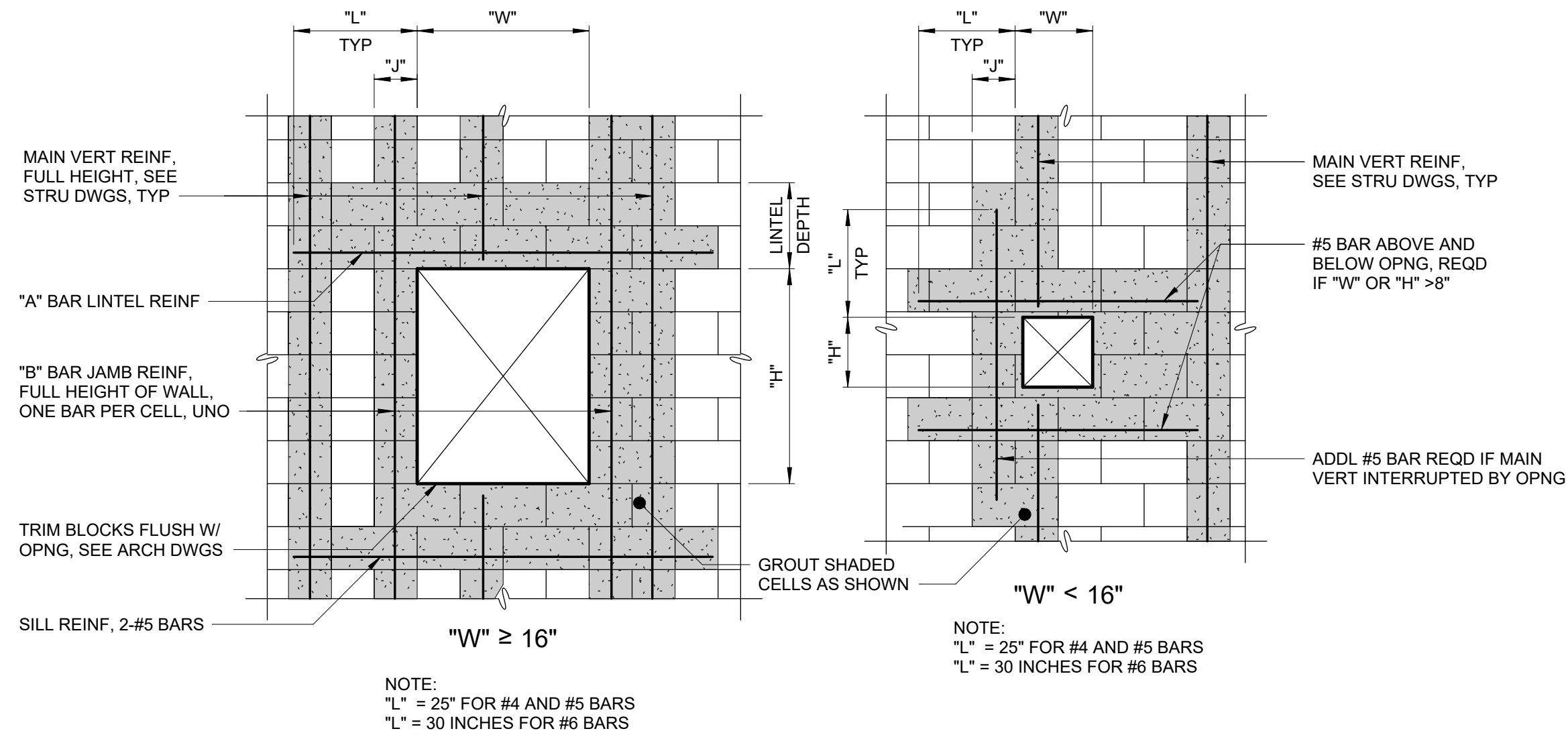
SINGLE MAT
INTERIOR CORNER PLAN

- NOTES:
- SEE MASONRY GENERAL STRUCTURAL NOTES FOR LAP SPLICE LENGTH REQUIREMENTS.
 - DETAIL APPLIES TO BOND BEAM HORIZONTAL REINFORCING.

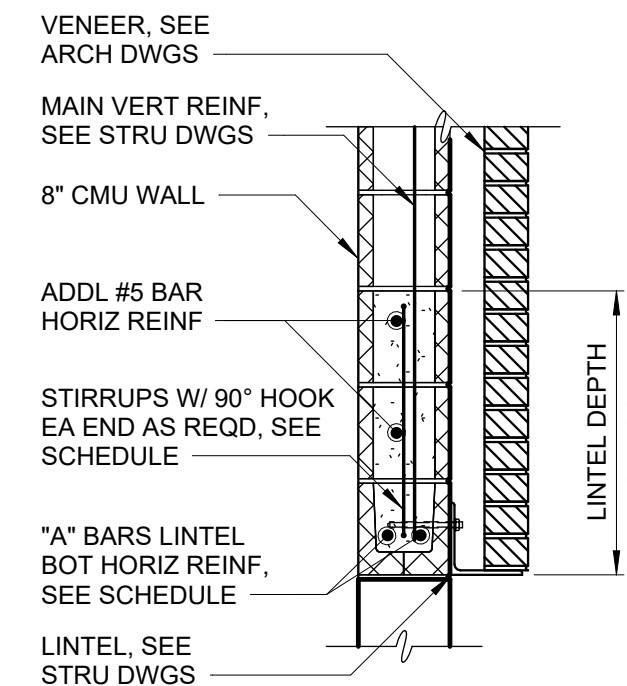
TYPICAL MASONRY WALL INTERSECTION REINFORCING

S-04-0203

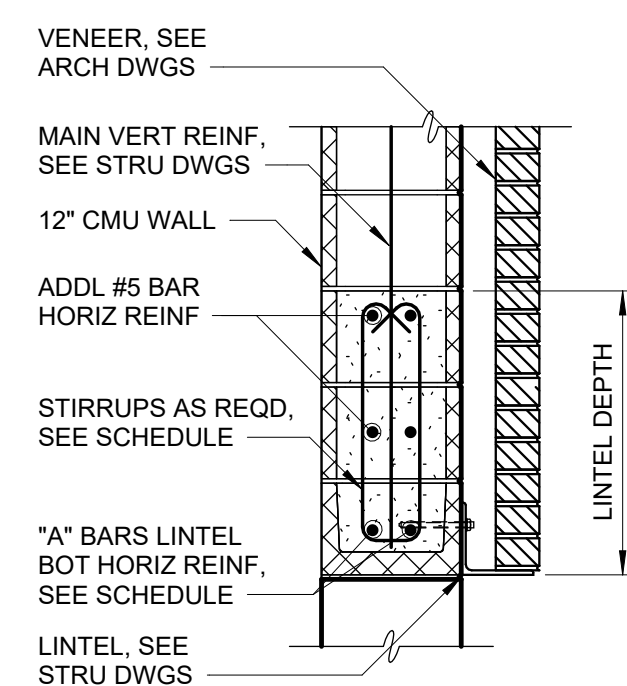
CMU OPENING REINFORCEMENT SCHEDULE					
"W" OPNG WIDTH	LINTEL DEPTH	LINTEL STIRRUP	"A" BAR LINTEL	"B" BAR JAMB	"J" MIN JAMB WIDTH
UP TO 2'-8"	8"	-	#5 BAR	1-#5 BAR EA JAMB	8"
>2'-8" <= 4'-0"	8"	-	2-#5 BARS	1-#5 BAR EA JAMB	8"
>4'-0" <= 6'-0"	16"	#3@8"	2-#5 BARS	2-#5 BAR EA JAMB	16"
>6'-0" <= 8'-0"	24"	#3@8"	2-#5 BARS	2-#5 BAR EA JAMB	16"
>8'-0" <= 10'-0"	32"	#3@8"	2-#5 BARS	3-#5 BAR EA JAMB	24"



TYPICAL MASONRY OPENINGS
S-04-0202



8" LINTEL SECTION



12" LINTEL SECTION

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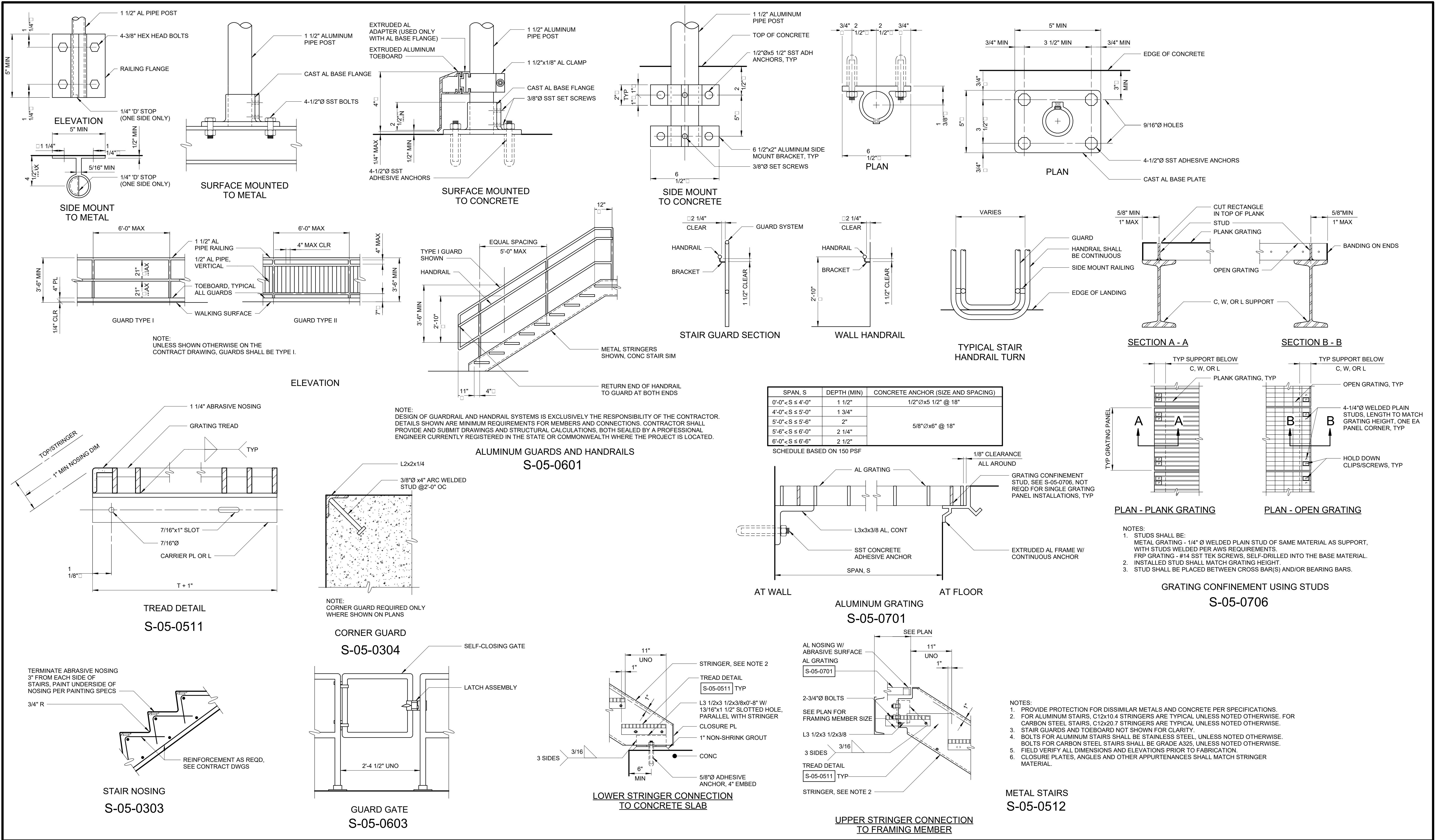
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DETAILS - SHEET 3

DATE:	JUNE 2024
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CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-13



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6/24/2024 7:02:57 PM

0	BID	06/2024	PDS	
REV	ISSUED FOR	DATE	BY	

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

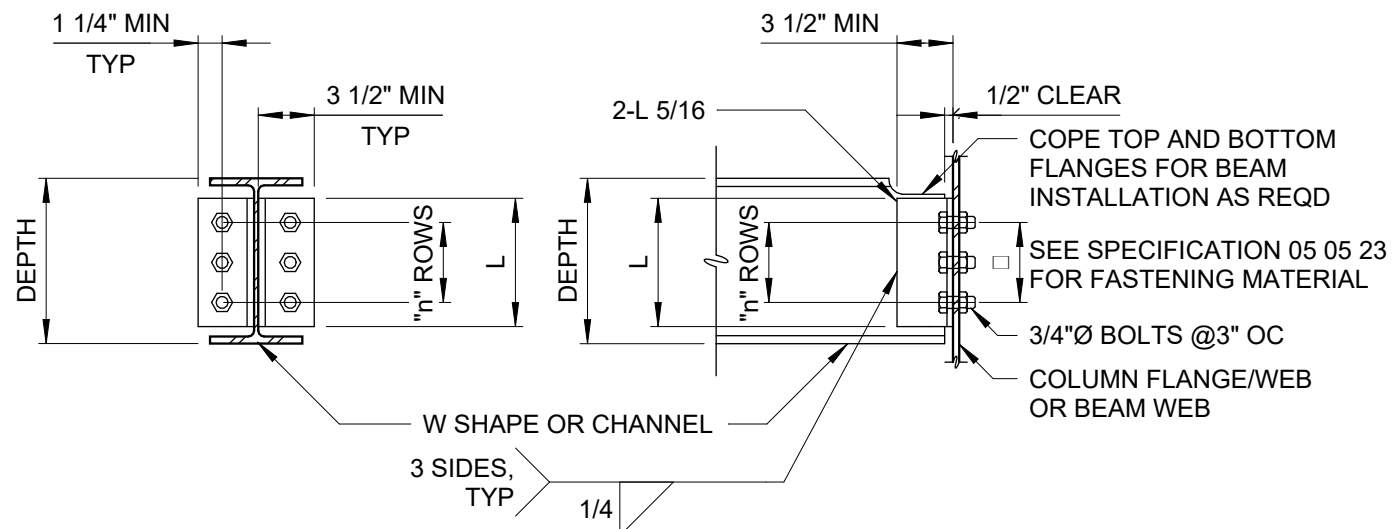
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

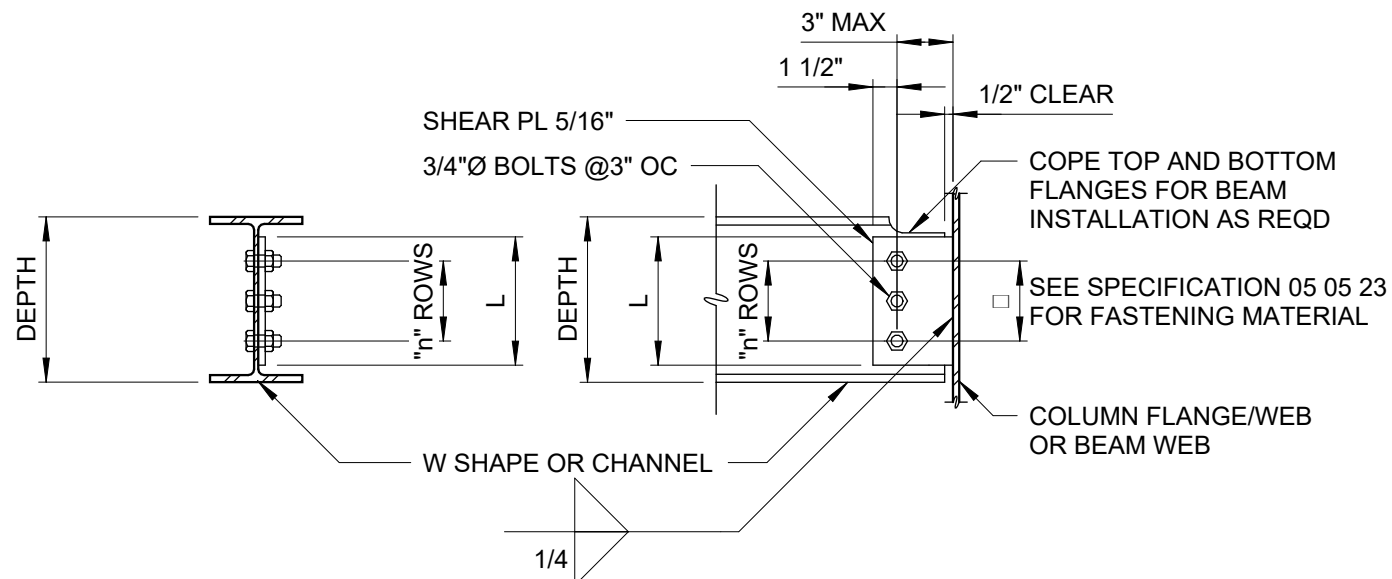
STRUCTURAL
DETAILS - SHEET 5

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-15

NOMINAL BEAM DEPTH, INCHES	(n) ROWS	L, INCHES
8-10	2	5 1/2"
12-15	3	8 1/2"
16-18	4	11 1/2"
21	5	1'-2 1/2"
24	6	1'-5 1/2"
27	7	1'-8 1/2"
30	8	1'-11 1/2"
33	9	2'-2 1/2"
36	10	2'-5 1/2"



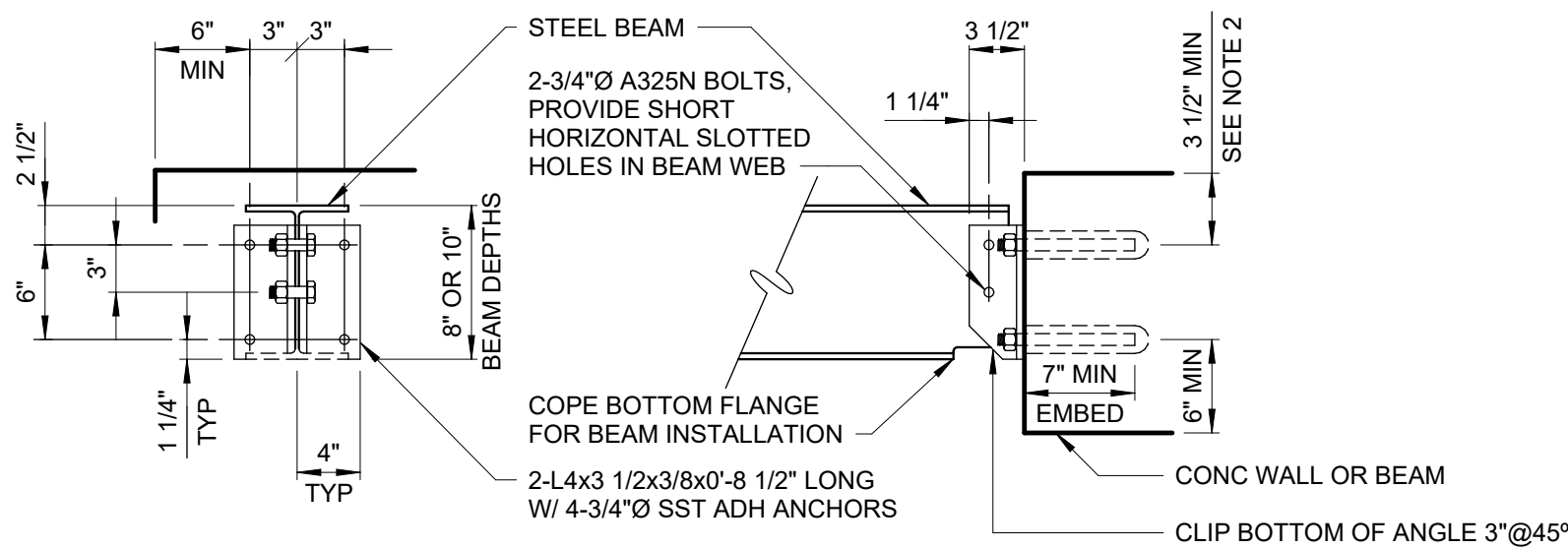
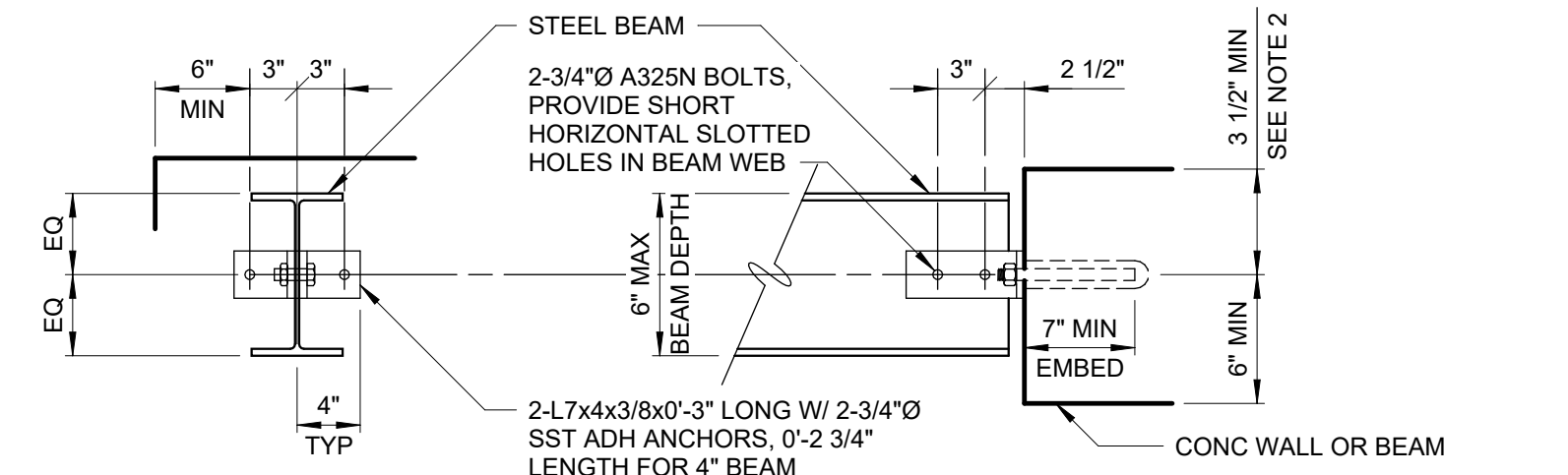
TYPE I DOUBLE ANGLE



TYPE II SINGLE PLATE

NOTE:
TYPE I DOUBLE ANGLE CONNECTION
SHALL BE USED UNO ON DRAWINGS.

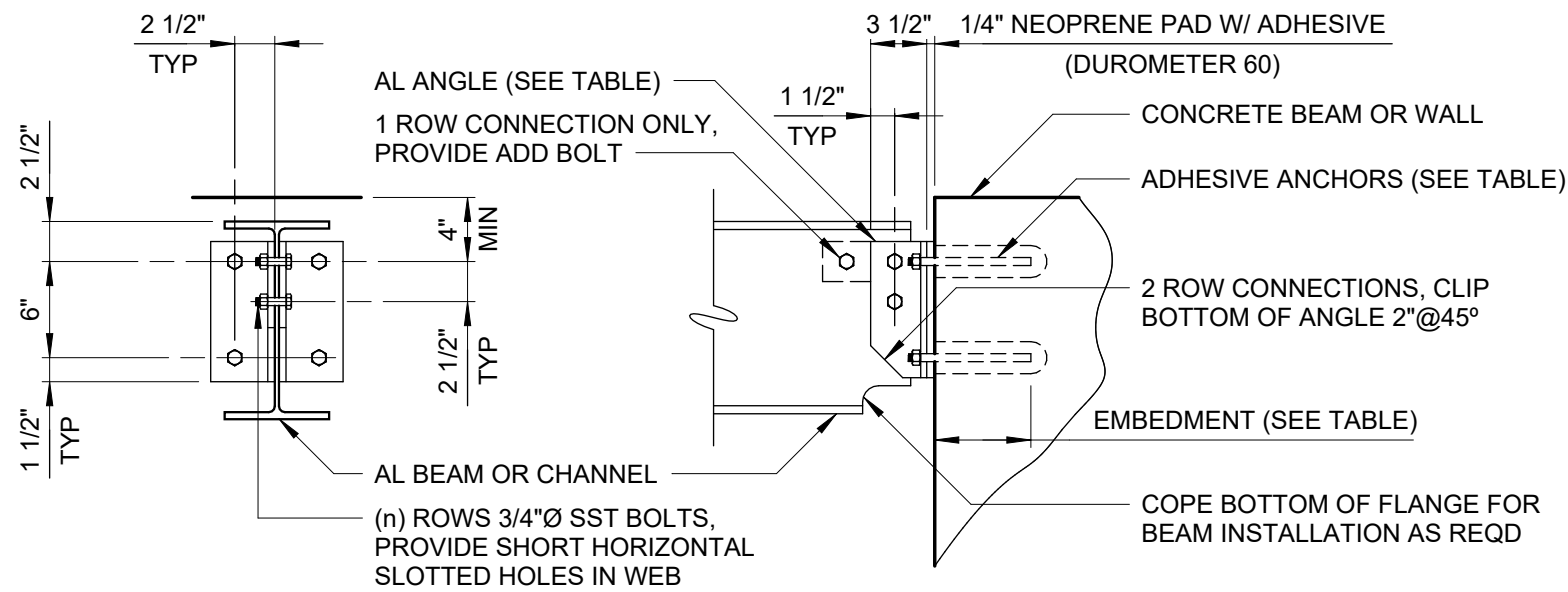
STEEL FRAMING CONNECTION
S-05-0102



- NOTES:
- WHERE BOTH ENDS OF BEAM ARE ATTACHED TO A WALL, PROVIDE LONG HORIZONTALLY SLOTTED HOLES IN BEAM WEB AT ONE END. TIGHTEN NUTS SNUG TIGHT, BACK OFF 1/2 TURN, AND LOCK WITH DOUBLE NUT.
 - DO NOT CUT EXISTING CONCRETE BEAM TOP REINFORCING DURING DRILL-IN ANCHOR INSTALLATION. FIELD LOCATE BEAM REINFORCING PRIOR TO FABRICATION WITH GROUND PENETRATING RADAR OR OTHER ACCEPTABLE MEANS. ADD LENGTH TO CLIP ANGLES AS REQUIRED TO LOWER ANCHORS TO CLEAR REINFORCING WHILE MAINTAINING SPACING AND EDGE DISTANCE AS SHOWN.

STEEL BEAM TO CONCRETE CONNECTION
S-05-0103

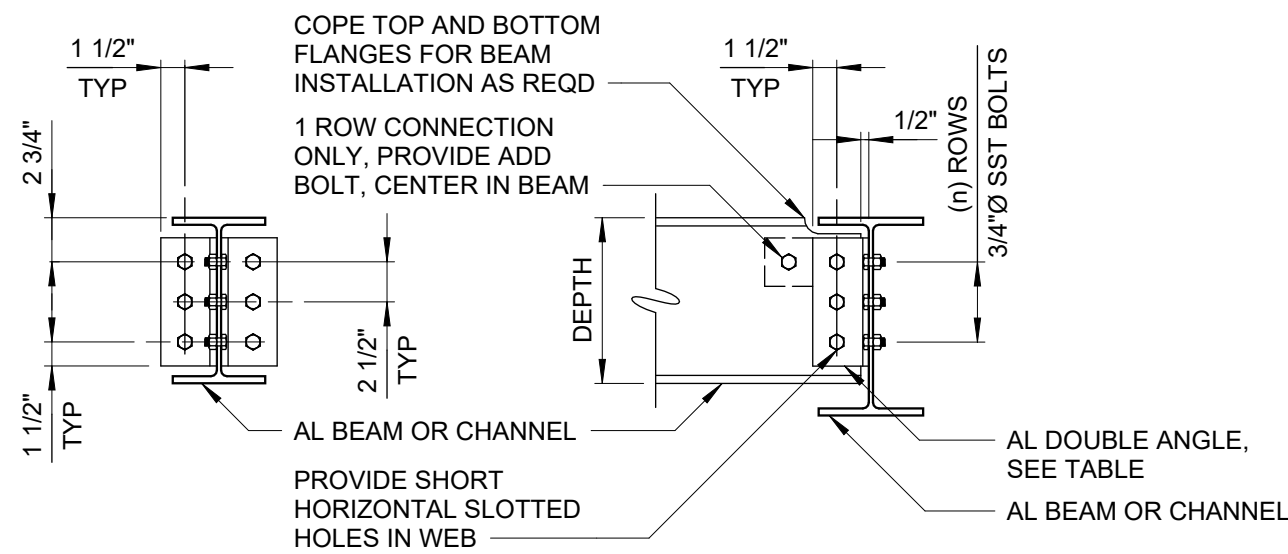
AL MEMBER DEPTH	AL DOUBLE ANGLES	(n) ROWS	SST ADHESIVE ANCHORS	EMBEDMENT
4", 5", 6"	2-L6x4x3/8x3" LONG	1	2-5/8"Ø SST ADHESIVE ANCHORS	5", MIN
8"	2-L4x3 1/2x3/8x0'-9"	2	4-5/8"Ø SST ADHESIVE ANCHORS	5", MIN
10", 12", 15"	2-L4x3 1/2x3/8x0'-9"	3	4-3/4"Ø SST ADHESIVE ANCHORS	6 1/2", MIN



NOTE:
DURING INSTALLATION OF ADHESIVE ANCHORS BEAM TOP REINFORCEMENT SHALL NOT BE CUT. PRIOR TO FABRICATION FIELD LOCATE REINFORCEMENT AND LENGTHEN ANGLES AS REQUIRED LOWER ANCHORS TO CLEAR REINFORCEMENT.

ALUMINUM BEAM TO CONCRETE CONNECTION
S-05-0201

AL MEMBER DEPTH	AL DOUBLE ANGLES	(N) ROWS
4", 5", 6"	2-L6x4x3/8x0'-3" LONG	1
8"	2-L4x4x5/16x0'-5 1/2"	2
10", 12", 15"	2-L4x4x5/16x0'-8"	3



ALUMINUM FRAMING CONNECTION
S-05-0202

1 - STEEL CONSTRUCTION

INSPECTION TASK	FREQUENCY	
	CONT	PER
NOT USED		

2 - STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

INSPECTION TASK	FREQUENCY	
	CONT	PER
NOT USED		

3 - OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

INSPECTION TASK		CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
	NOT USED			

4 - CONCRETE CONSTRUCTION

INSPECTION TASK		FREQUENCY		REFERENCE STANDARD	NYSBC REFERENCE
		CONT	PER		
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		X	ACI 318: Ch 20, 25.2, 25.3, 26.6.1-26.6.3	1705.3, 1908.4
2	REINFORCING BAR WELDING:			AWS D1.4, ACI 318: 26.6.4	1705.3
	a	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.			
	b	INSPECT SINGLE-PASS FILLET WELD, MAXIMUM 5/16".			
	c	INSPECT ALL OTHER WELDS.	X		
3	INSPECT ANCHORS CAST IN CONCRETE.		X	ACI 318: 17.8.2	1705.3
4	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: **			ACI 318: 17.8.2.4, ACI 318: 17.8.2	1705.3
	a	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X		
	b	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.			
5	VERIFY USE OF REQUIRED DESIGN MIX.		X	ACI 318: Ch 19, 26.4.3, 26.4.4	1705.3, 1904.1, 1904.2, 1908.2, 1908.3
6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1705.3, 1908.10
7	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		ACI 318: 26.5	1705.3, 1908.6, 1908.7, 1908.8
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 26.5.3-26.5.5	1705.3, 1908.9
9	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1.2(b)	1705.3
* WHERE APPLICABLE, SEE IBC SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. ** SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.					

NOTES

1. ACI 318 REFERENCED STANDARD REFERS TO THE 2019 EDITION.
2. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE ARE EXEMPT FROM SPECIAL INSPECTION REQUIREMENTS.

5 - DEEP FOUNDATION ELEMENTS

INSPECTION TASK	FREQUENCY		NYSBC REFERENCE
	CONT	PER	
NOT USED			

6 - MASONRY CONSTRUCTION - LEVEL 2 QUALITY ASSURANCE

INSPECTION TASK	REFERENCE STANDARD		NYSBC REFERENCE
	TMS 402	TMS 602	
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.		ART. 1.5	1705.4
PRIOR TO CONSTRUCTION, VERIFICATION OF fm, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.		ART. 1.4B	
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.		ART. 1.5, 1.6.3	

MINIMUM SPECIAL INSPECTION		FREQUENCY		REFERENCE STANDARD		IBC REFERENCE
		CONT	PER	TMS 402	TMS 602	
1	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING COMPLY:					1705.4
	a	PROPORTIONS OF SITE-PREPARED MORTAR.		X	ART. 2.1, 2.6A, 2.6C	
	b	GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.		X	ART. 3.4, 3.6A	
	c	SAMPLE PANEL CONSTRUCTION.		X	ART. 1.6C	
2	PRIOR ON GROUTING, VERIFY THAT THE FOLLOWING COMPLY:					1705.4
	a	GROUT SPACE.		X	ART. 3.2D, 3.2F	
	b	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.		X	SEC. 6.1, 6.3.1, 6.3.6, 6.3.7	
	c	PROPORTIONS OF SITE-PREPARED GROUT.		X	ART. 2.6B, 2.4 G.1.b	
3	VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					1705.4
	a	MATERIALS AND PROCEDURES WITH APPROVED SUBMITTALS.		X	ART. 1.5	
	b	PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.		X	ART. 3.3B	
	c	SIZE AND LOCATION OF STRUCTURAL MEMBERS.		X	ART. 3.3F	
	d	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		X	SEC. 1.2.1(e), 6.2.1, 6.3.1	
	e	WELDING OF REINFORCEMENT.	X		SEC. 6.1.6.1.2	
	f	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURES ABOVE 90° F).		X	ART. 1.8C, 1.8D	
	g	PLACEMENT OF GROUT COMPLIES.	X		ART. 3.5, 3.6C	
4	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.				X	1705.4

NOTES

1. SCHEDULE REFERENCES LEVEL 2 QUALITY ASSURANCE IN ACCORDANCE WITH TMS 402/602-16.

7 - SOILS

MINIMUM SPECIAL INSPECTION		FREQUENCY		NYSBC REFERENCE
		CONT	PER	
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X	1705.6
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS.		X	
3	PERFORM CLAQSSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X	
4	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	

NOTES:

1. REQUIRED INSPECTION TABLES ARE BASED ON REQUIREMENTS OF CHAPTER 17 OF THE NEW YORK STATE BUILDING CODE.
2. SELECTED MATERIALS, ASSEMBLIES, EQUIPMENT INSTALLATION, ERECTION, FABRICATION OR PLACEMENT OF COMPONENTS AND CONNECTIONS SHALL COMPLY WITH THE NEW YORK STATE BUILDING CODE REQUIREMENTS FOR STRUCTURAL TEST AND SPECIAL INSPECTION (CHAPTER 17).
3. INFORMATION PRESENTED ON THIS DRAWING DETAILS THE SPECIAL INSPECTIONS WHICH ARE REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTIONS ARE NOT IN THE CONTRACT. HOWEVER THE CONTRACTOR IS REQUIRED TO PREPARE FOR AND PROVIDE ACCESS FOR THE SPECIAL INSPECTIONS WITH A MINIMUM 2 DAY NOTIFICATION TO THE CONSTRUCTION MANAGER AT NO ADDITIONAL COST TO THE OWNER.
4. ALL REQUIRED SPECIAL INSPECTIONS SHALL BE PERFORMED BY SPECIAL INSPECTORS PROVIDED AND COORDINATED BY THE OWNER. THE SPECIAL INSPECTOR(S) SHALL BE QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTIONS OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTIONS. ALL INSPECTION REPORTS AND TEST RESULTS SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL WITHOUT DELAY.
5. DEFINITIONS:

A. CONTINUOUS INSPECTION - REFERS TO THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

B. PERIODIC INSPECTION - REFERES TO THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

C. OBSERVE (O) - APPROVED SPECIAL INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

D. PERFORM (P) - THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER

E. PROVIDE INSPECTION (X) - PROVIDE INDICATED CONTINUOUS OR PERIODIC INSPECTION FOR THESE TASKS
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. NON-STRUCTURAL PLUMBING, MECHANICAL, FUEL GAS, AND ELECTRICAL SYSTEM COMPONENTS:

A. SEISMIC SYSTEM QUALIFICATIONS PER NYSBC 1705.12 IS NOT REQUIRED FOR THIS PROJECT.

B. PERIODIC SPECIAL INSPECTION FOR SEISMIC RESISTANCE PER NYSBC 1705.12.3 IS NOT REQUIRED FOR THIS PROJECT.

0	BID	06/2024	PDS		
REV	ISSUED FOR	DATE	BY		

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	S. MANZO
DRAWN BY:	M. ROBLE
CHECKED BY:	L. GIROUX
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID



Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

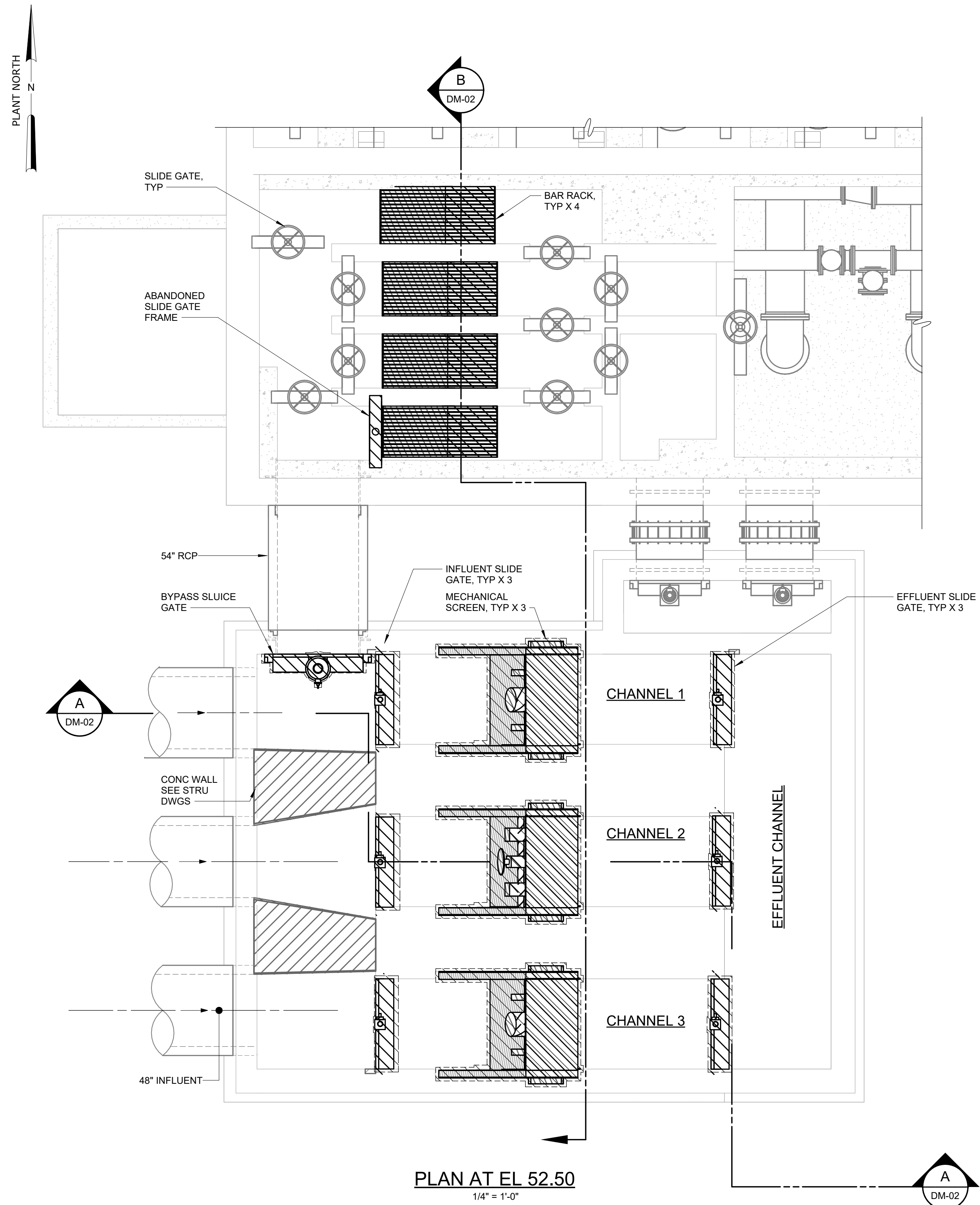
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

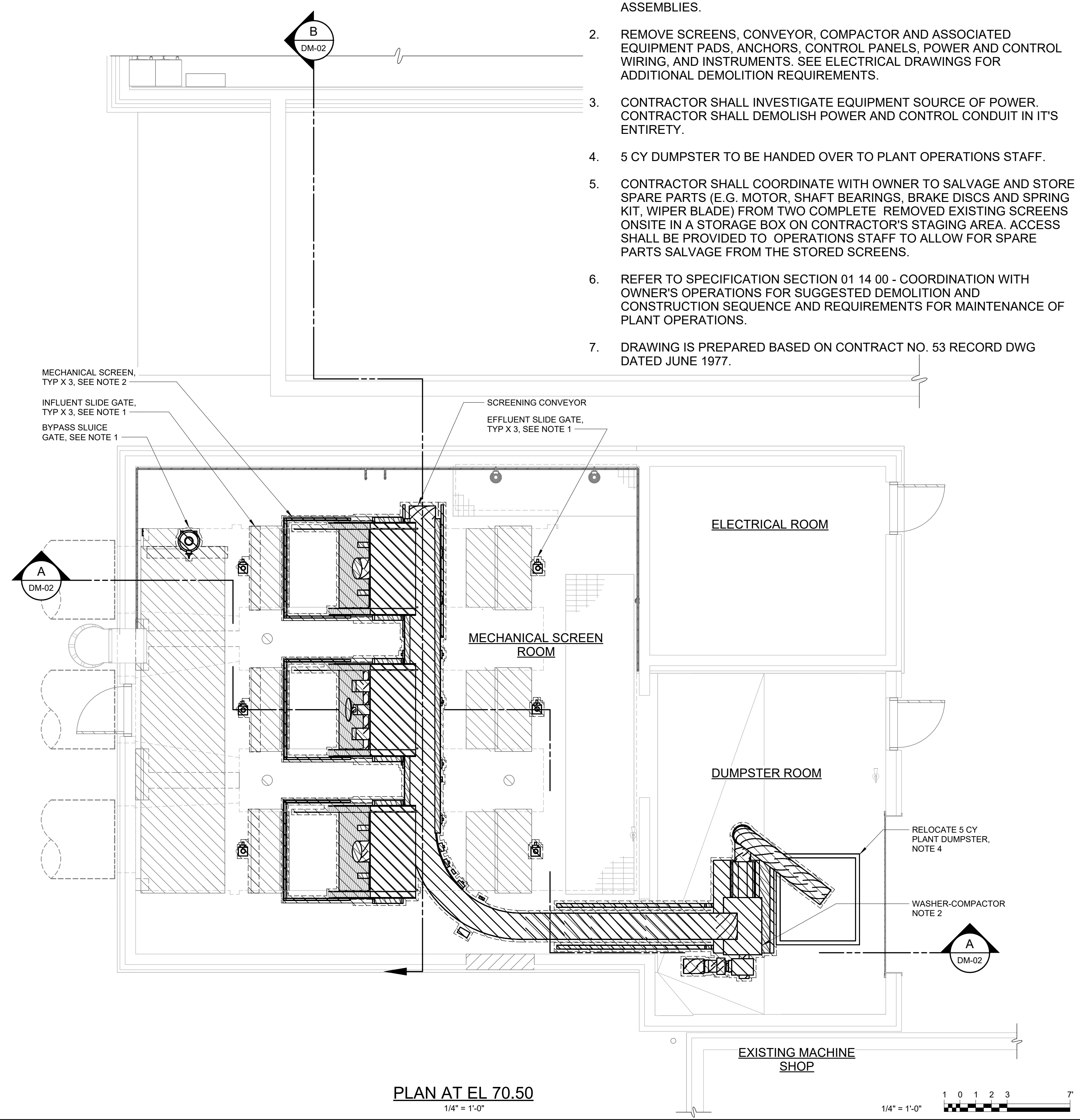
STRUCTURAL
SPECIAL INSPECTION

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	S-16

Autodesk Docs/0462-000_EDS and CA for RCSD Streets Rehab/0462-000-100-MSB-M.nt
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PLAN AT EL 52.50
1/4" = 1'-0"



PLAN AT EL 70.50
1/4" = 1'-0"

NOTES:

1. REMOVE EXISTING SLIDE GATES INCLUDING DISCS, FRAMES, GUIDES, SEALS, STEMS, PEDESTALS, ANCHORS AND MANUAL OPERATOR ASSEMBLIES.
2. REMOVE SCREENS, CONVEYOR, COMPACTOR AND ASSOCIATED EQUIPMENT PADS, ANCHORS, CONTROL PANELS, POWER AND CONTROL WIRING, AND INSTRUMENTS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. CONTRACTOR SHALL INVESTIGATE EQUIPMENT SOURCE OF POWER. CONTRACTOR SHALL DEMOLISH POWER AND CONTROL CONDUIT IN IT'S ENTIRETY.
4. 5 CY DUMPSTER TO BE HANDED OVER TO PLANT OPERATIONS STAFF.
5. CONTRACTOR SHALL COORDINATE WITH OWNER TO SALVAGE AND STORE SPARE PARTS (E.G. MOTOR, SHAFT BEARINGS, BRAKE DISCS AND SPRING KIT, WIPER BLADE) FROM TWO COMPLETE REMOVED EXISTING SCREENS ONSITE IN A STORAGE BOX ON CONTRACTOR'S STAGING AREA. ACCESS SHALL BE PROVIDED TO OPERATIONS STAFF TO ALLOW FOR SPARE PARTS SALVAGE FROM THE STORED SCREENS.
6. REFER TO SPECIFICATION SECTION 01 14 00 - COORDINATION WITH OWNER'S OPERATIONS FOR SUGGESTED DEMOLITION AND CONSTRUCTION SEQUENCE AND REQUIREMENTS FOR MAINTENANCE OF PLANT OPERATIONS.
7. DRAWING IS PREPARED BASED ON CONTRACT NO. 53 RECORD DWG DATED JUNE 1977.

REV	ISSUED FOR	DATE	BY
0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	X. LIN/C.MULFORD
DRAWN BY:	B. CASULL
CHECKED BY:	P. SAURER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

FOR BID



Hazen
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NEW YORK, NEW YORK 10018

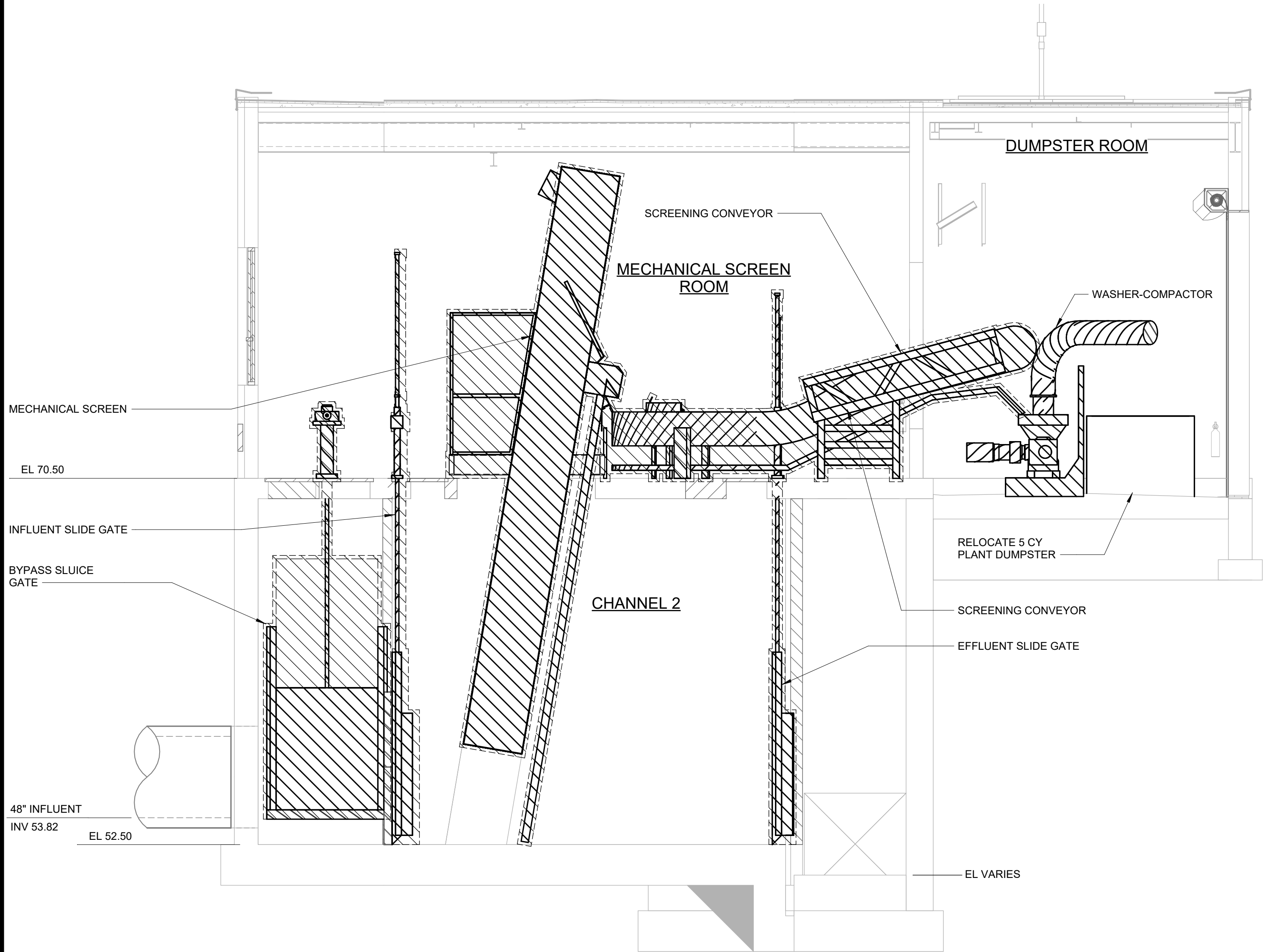
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

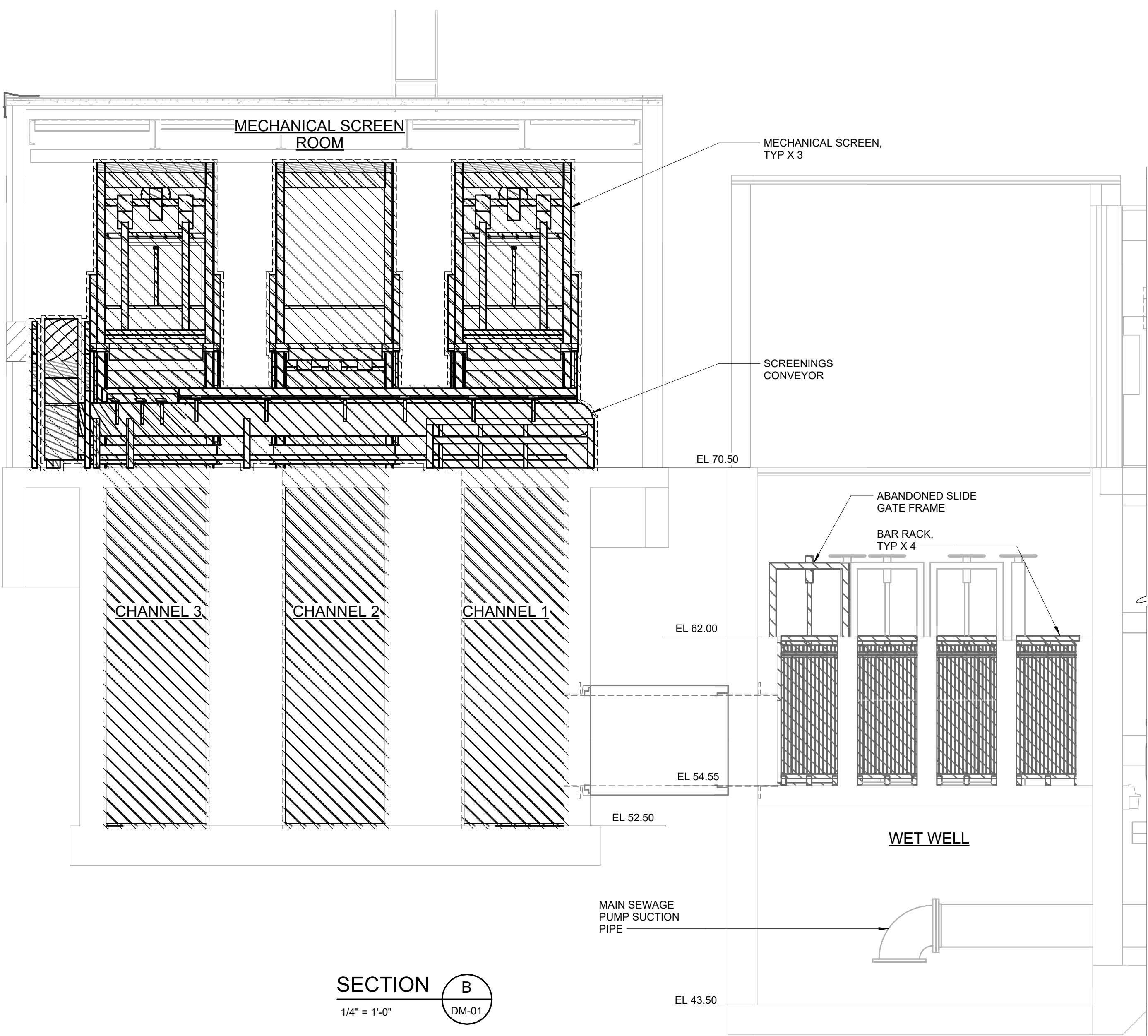
MECHANICAL REMOVAL
PLANS EL 52.50 AND EL 70.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DM-01

- NOTES:
1. SEE NOTES ON SHEET DM-01



SECTION A
1/4" = 1'-0"



SECTION B
1/4" = 1'-0"

1/4" = 1'-0"

0	BID	06/2024	PDS
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	X. LIN/C.MULFORD
DRAWN BY:	B. CASULL
CHECKED BY:	P. SAURER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

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ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

MECHANICAL REMOVAL
SECTIONS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DM-02

					ABBREVIATIONS		GENERAL NOTES		LEGEND																																															
					CY EL EQPT INV SLG MS CUBIC YARD ELEVATION EQUIPMENT INVERT SLIDE GATE MECHANICAL SCREEN		1. EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY CONTRACTOR BASED ON EQUIPMENT FURNISHED. COORDINATE MECHANICAL WORK WITH THE WORK OF ALL OTHER TRADES. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN IS NOT INTENDED TO SHOW DIMENSIONS PARTICULAR TO A SPECIFIC EQUIPMENT MANUFACTURER. THE CONTRACTOR SHALL COORDINATE AND CONFIRM ALL CRITICAL DIMENSIONS FOR ACTUAL EQUIPMENT AND PIPING PROVIDED AND SHALL PROVIDE ALL REVISIONS NECESSARY TO THE EQUIPMENT, EQUIPMENT PADS AND PIPING LAYOUT AS REQUIRED. THESE REVISIONS SHALL BE SUBMITTED WITH THE PIPING LAYOUT DRAWINGS. 2. LOCATION OF INSTRUMENTATION AND CONTROL DEVICES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF INSTRUMENTATION AND CONTROL DEVICES WITH EQUIPMENT MANUFACTURER. 3. PROVIDE ADEQUATE MEANS OF ACCESS CLEARANCE FOR ALL EQUIPMENT THAT REQUIRE ACCESS FOR PROPER OPERATION, MAINTENANCE AND REPAIR PER MANUFACTURERS' CLEARANCES. NO EQUIPMENT OR MATERIALS OF ANY TRADE SHALL BE INSTALLED WITHIN THE EQUIPMENT CLEARANCE AREA. 4. EXISTING CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. 5. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EQUIPMENT, PIPING, VALVES AND OTHER RELATED APPURTENANCES. 6. REFER TO SPECIFICATION SECTION 01 73 01 FOR DETAILS ON SUGGESTED DEMOLITION AND CONSTRUCTION SEQUENCE. 7. PIPE ELEVATIONS ARE CENTERLINES UNLESS NOTED OTHERWISE.		SYMBOLS																																															
					PIPING SYSTEMS				DR SW DRAIN SERVICE WATER		<div><div><div><div><div></div><div></div></div><div></div></div><div>GATE VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>BUTTERFLY VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>PLUG VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>SWING CHECK VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>GLOBE VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>PINCH VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>DIAPHRAGM VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>BALL VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>BALL CHECK VALVE</div></div><div><div><div><div></div><div></div></div><div></div></div><div>HARNESSED FLANGED COUPLING ADAPTER</div></div><div><div><div><div></div><div></div></div><div></div></div><div>HARNESSED SLEEVE TYPE COUPLING</div></div><div><div><div><div></div><div></div></div><div></div></div><div>SLEEVE TYPE COUPLING</div></div><div><div><div><div></div><div></div></div><div></div></div><div>HARNESSED FLEXIBLE COUPLING</div></div></div> <div><div><div><div></div><div></div></div><div></div></div><div>WALL PENETRATION</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>MECHANICAL COUPLING</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>WELDED JOINT</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>FLANGED JOINT</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>MECHANICAL PUSH-ON OR RESTRAINED JOINT</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>SLIDE GATE</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>SLUICE GATE</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>STOP GATE</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>FLUSHING CONNECTION</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>HOSE BIB</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>QUICK DISCONNECT FITTING</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>YARD HYDRANT</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>FIRE HYDRANT</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>SOIL BORING</div></div>																																													
<table><tr><td></td><td></td><td></td><td></td><td>PROJECT ENGINEER:</td><td>R. FROST</td></tr><tr><td></td><td></td><td></td><td></td><td>DESIGNED BY:</td><td>X. LIN/C.MULFORD</td></tr><tr><td></td><td></td><td></td><td></td><td>DRAWN BY:</td><td>B. CASULL</td></tr><tr><td></td><td></td><td></td><td></td><td>CHECKED BY:</td><td>P. SAURER</td></tr><tr><td>0</td><td>BID</td><td>06/2024</td><td>PDS</td><td colspan="2">IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE</td></tr><tr><td>REV</td><td>ISSUED FOR</td><td>DATE</td><td>BY</td><td colspan="2"></td></tr></table>									PROJECT ENGINEER:	R. FROST					DESIGNED BY:	X. LIN/C.MULFORD					DRAWN BY:	B. CASULL					CHECKED BY:	P. SAURER	0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE		REV	ISSUED FOR	DATE	BY			<div><div><div><div></div><div></div></div><div></div></div><div>FOR BID</div></div> <div><div><div><div></div><div></div></div><div></div></div><div>HAZEN</div><div>HAZEN AND SAWYER 498 SEVENTH AVENUE, 11th FLOOR NEW YORK, NEW YORK 10018</div></div>		<div>ROCKLAND COUNTY SEWER DISTRICT NO.1 ORANGEBURG, NEW YORK</div> <div>ORANGEBURG WASTEWATER TREATMENT PLANT SCREENING IMPROVEMENTS PROJECT</div>		<div>MECHANICAL NOTES AND ABBREVIATIONS</div>		<table><tr><td>DATE:</td><td>JUNE 2024</td></tr><tr><td>HAZEN NO.:</td><td>90462-000</td></tr><tr><td>CONT NO.:</td><td>RFB-RC-SWR-2023-06</td></tr><tr><td>DRAWING NUMBER:</td><td>M-01</td></tr></table>		DATE:	JUNE 2024	HAZEN NO.:	90462-000	CONT NO.:	RFB-RC-SWR-2023-06	DRAWING NUMBER:	M-01
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NOTES:

1. MAIN PUMP STATION WET WELL LEVEL:
 - MAINTAINING LEVEL - 54.50
 - HIGH LEVEL ALARM LEVEL - 58.00
2. THIS HYDRAULIC PROFILE ASSUMES EVEN FLOW SPLIT BETWEEN THREE CHANNELS. HYDRAULIC PROFILE SHOWN FOLLOWS THE FLOW PATH THROUGH CHANNEL 3.

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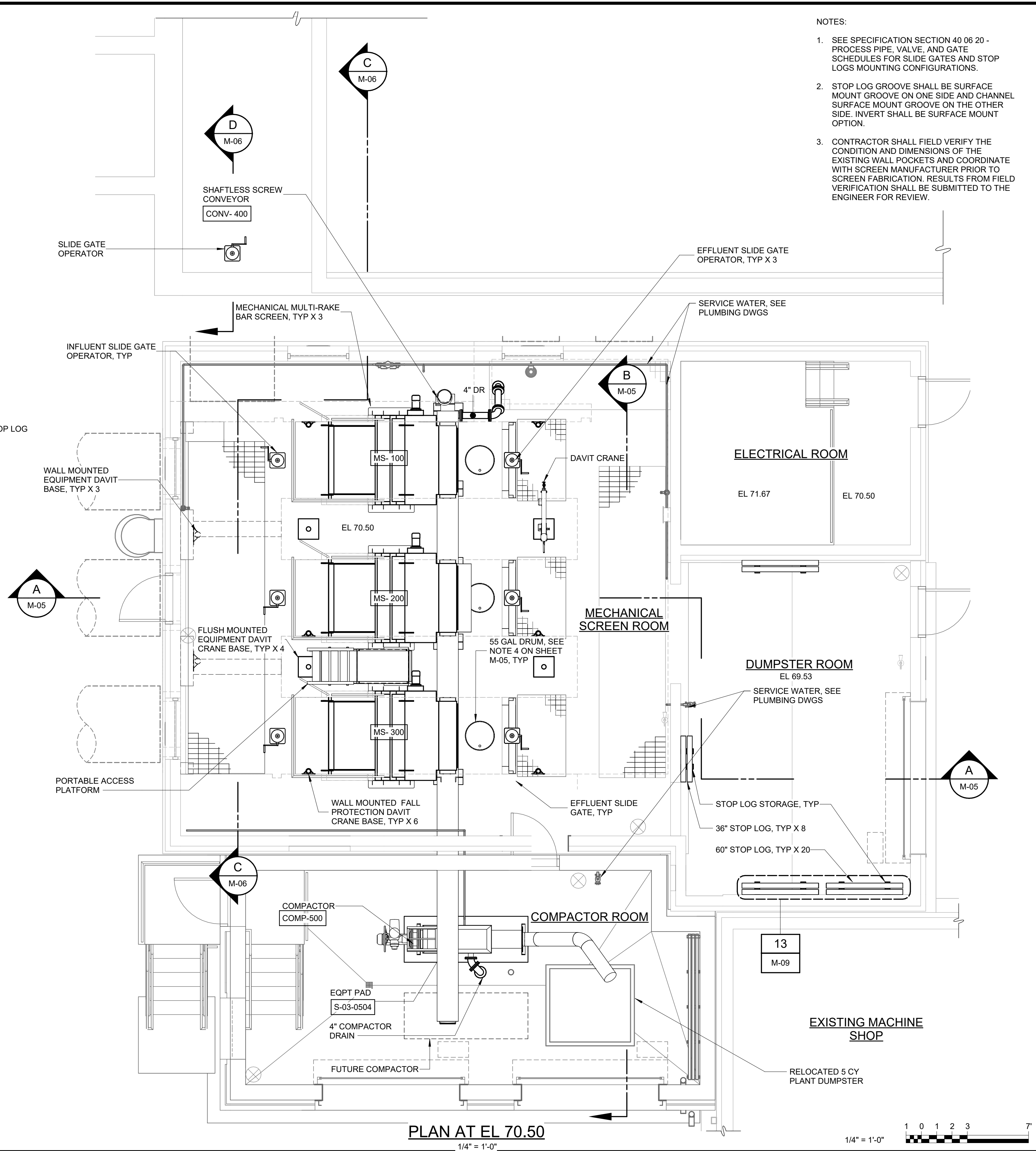
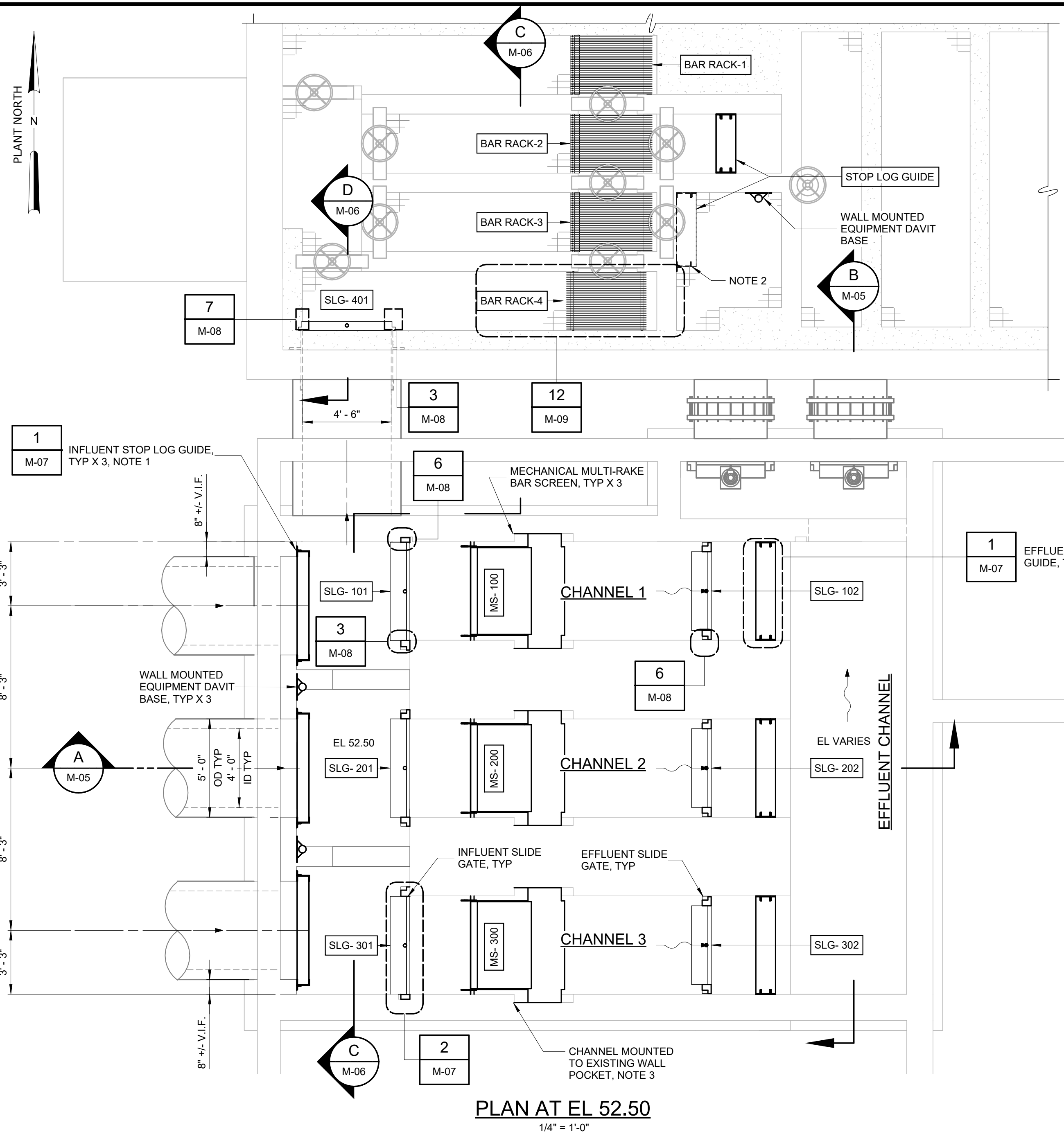
HAZEN AND SAWYER
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NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

MECHANICAL
PLANS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	M-04



- NOTES:
- SEE SPECIFICATION SECTION 40 06 20 - PROCESS PIPE, VALVE, AND GATE SCHEDULES FOR SLIDE GATES AND STOP LOGS MOUNTING CONFIGURATIONS.
 - STOP LOG GROOVE SHALL BE SURFACE MOUNT GROOVE ON ONE SIDE AND CHANNEL SURFACE MOUNT GROOVE ON THE OTHER SIDE. INVERT SHALL BE SURFACE MOUNT OPTION.
 - CONTRACTOR SHALL FIELD VERIFY THE CONDITION AND DIMENSIONS OF THE EXISTING WALL POCKETS AND COORDINATE WITH SCREEN MANUFACTURER PRIOR TO SCREEN FABRICATION. RESULTS FROM FIELD VERIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

1. WHEN MANUAL SCREEN DISCHARGE BYPASS CHUTE IS IN BYPASS MODE DISCHARGE SCREENINGS GO TO BYPASS 55 GALLON DRUMS.
2. NO EQUIPMENT OR MATERIALS OF ANY TRADE SHALL BE INSTALLED WITHIN EQUIPMENT ACCESS CORRIDOR.
3. SEE SECTION 40 06 20 - PROCESS PIPE, VALVE, AND GATE SCHEDULES FOR SLIDE GATES AND STOP LOGS MOUNTING CONFIGURATIONS.
4. FURNISH THREE 55-GALLON DRUMS, EACH EQUIPPED WITH A DRUM LIFTING AND DISPENSING HOIST MOUNT AND A PORTABLE DRUM DOLLY. SEE SECTION 46 21 12 - MECHANICALLY CLEANED MULTI-RAKE TYPE BAR SCREENS FOR DRUM LIFTING AND DISPENSING MOUNT REQUIREMENTS.
5. FURNISH EACH SCREEN WITH A BYPASS ADAPTER THROUGH TO DIRECT SCREENINGS FROM THE SCREEN BYPASS CHUTE TO THE 55 GALLON DRUM. THE CONTRACTOR SHALL COORDINATE THE SIZE OF THE ADAPTER TROUGH WITH THE BAR SCREEN MANUFACTURER.



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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	M-05

1. SEE SECTION 40 06 20 - PROCESS PIPE, VALVE, AND GATE SCHEDULES FOR SLIDE GATES AND STOP LOGS MOUNTING CONFIGURATIONS.



PROJECT ENGINEER:	R. FROST
DESIGNED BY:	X. LIN/C.MULFORD
DRAWN BY:	B. CASULLI
CHECKED BY:	P. SAURER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div style="display: flex; align-items: center;"> 0 1/2"  </div>

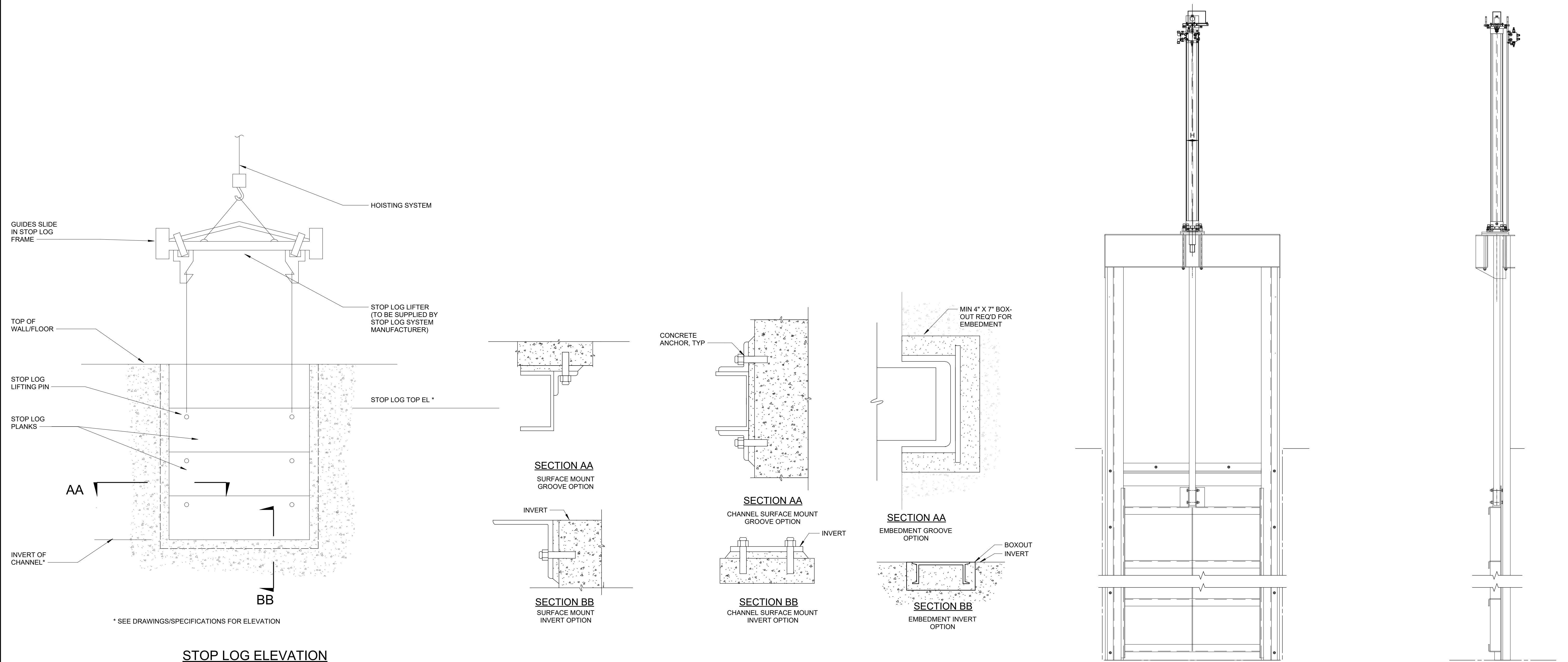
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NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

MECHANICAL
SECTIONS - SHEET 2

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	M-06




STOP LOG SYSTEM

DETAIL	1
NTS	M-04

SLIDE GATE DETAIL

DETAIL	2
NTS	M-04

24/06/2024 12:00:07 PM					PROJECT ENGINEER:	R. FROST
					DESIGNED BY:	X. LIN/C.MULFORD
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REV	ISSUED FOR	DATE	BY			

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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

MECHANICAL
DETAILS - SHEET 1

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	M-07

SURFACE MOUNTED GATE GUIDE SECTION

DETAIL	3
NTS	M-04

SURFACE MOUNTED
GATE GUIDE OPTION

EMBEDMENT GATE GUIDE OPTION

3/4" TYPE 316 STAINLESS
STEEL ANCHORS

SCREEN WIDTH

SURFACE MOUNTED GATE TOP SEAL
SECTION

DETAIL	4
NTS	M-06

SURFACE MOUNTED GATE BOTTOM SEAL

DETAIL	5
NTS	

FLUSHED MOUNTED GATE BOTTOM SEAL

DETAIL	8
NTS	M-05

EMBEDMENT GATE GUIDE OPTION

DETAIL	7
NTS	M-04

3/4" TYPE 316 STAINLESS
STEEL ANCHORS

TOP OF CHANNEL SCREEN FLOOR BRACKET

DETAIL	9
NTS	M-05


CHANNEL WALL SCREEN BRACKET

DETAIL	10
NTS	M-05

CHANNEL INVERT SCREEN BRACKET

DETAIL	11
NTS	M-05

0	BID	06/2024	PDS
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PROJECT ENGINEER:	R. FROST
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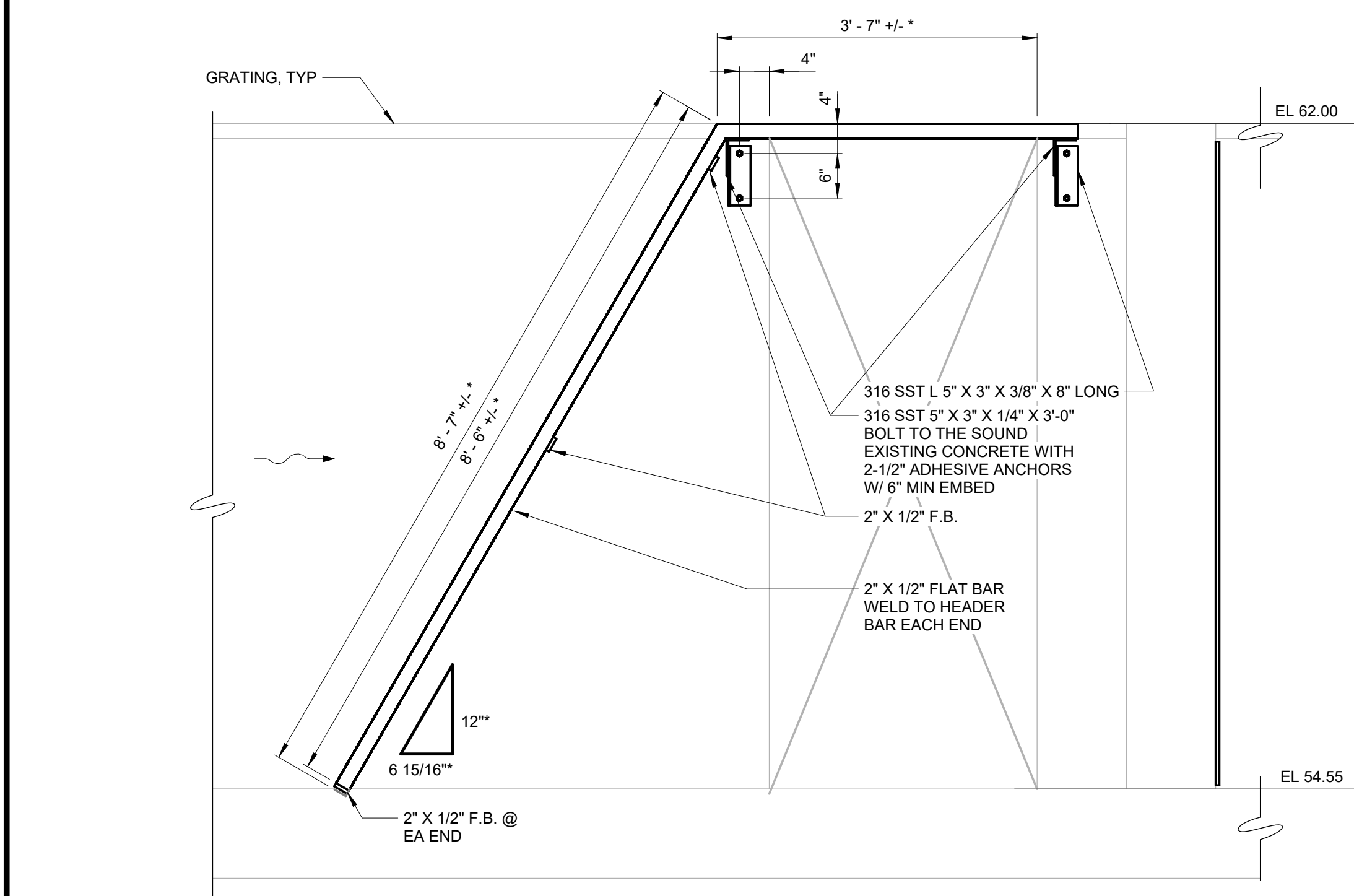
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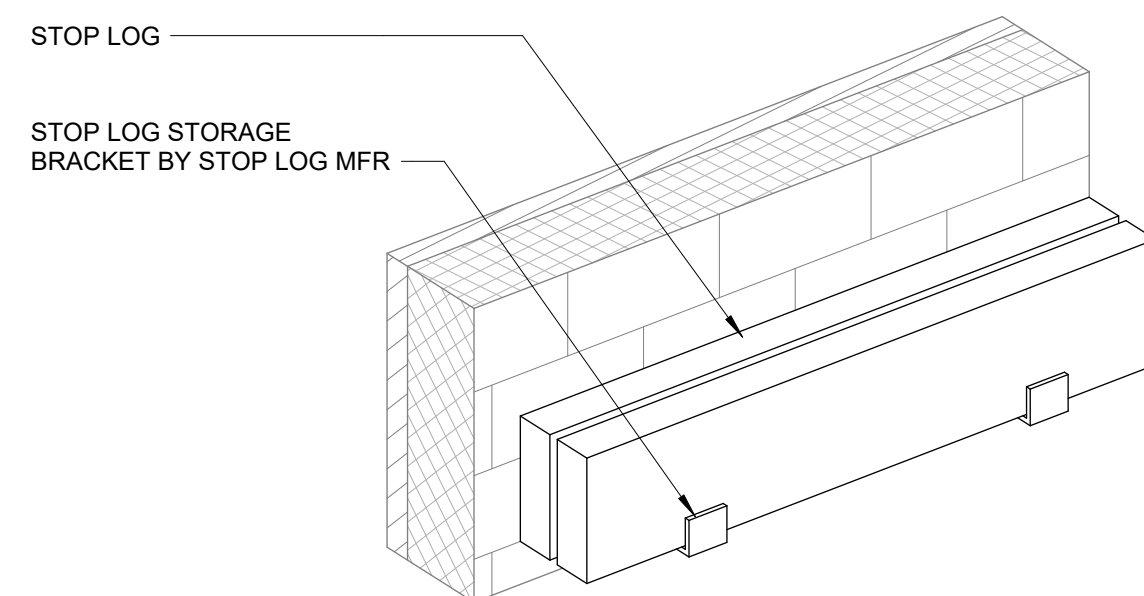
MECHANICAL
DETAILS - SHEET 2

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	M-08

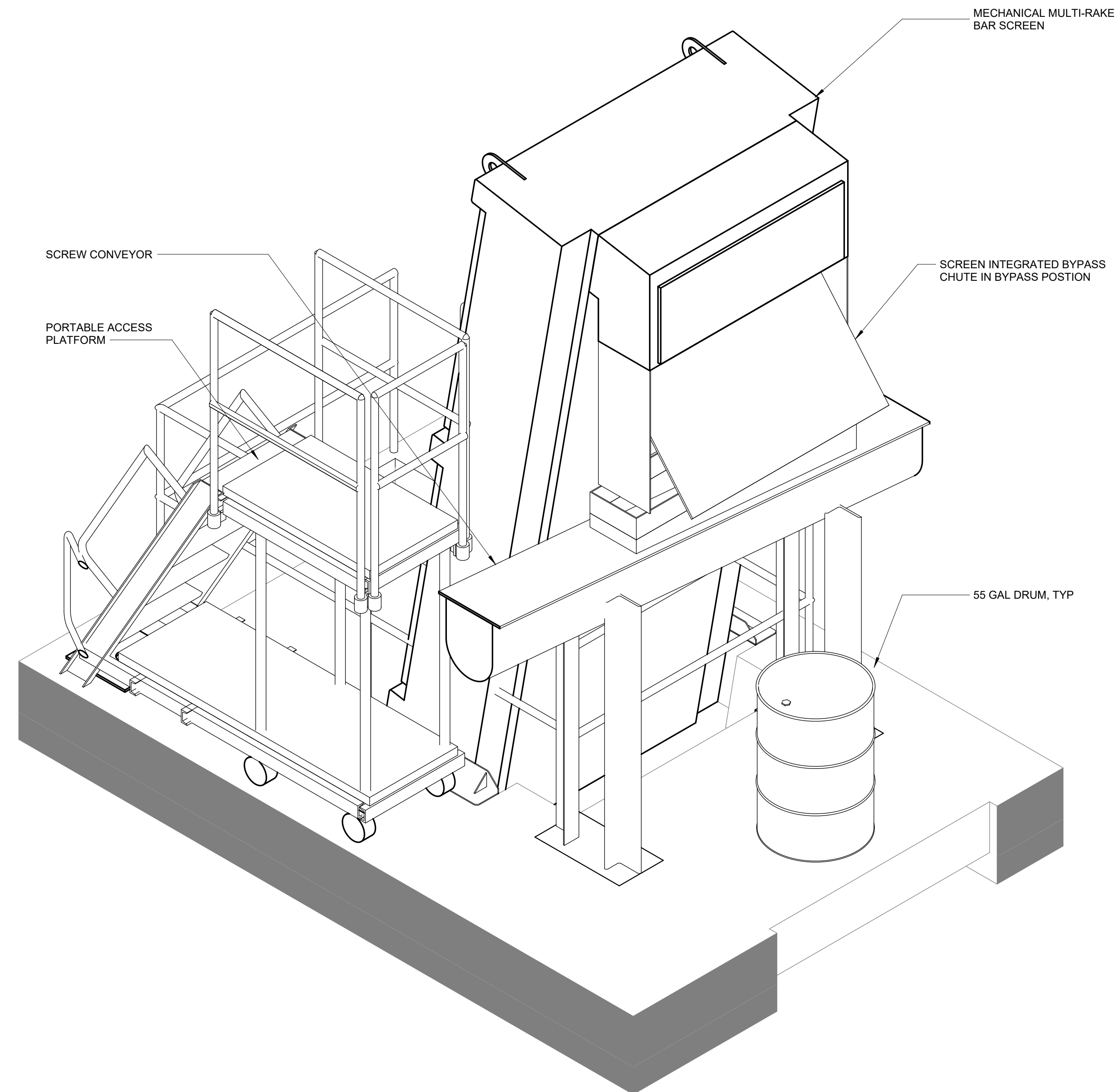


* MATCH EXISTING BAR RACK

DETAIL	12
NTS	M-04



DETAIL	13
NTS	M-04



DETAIL	14
NTS	M-05

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	X. LIN/C.MULFORD
DRAWN BY:	B. CASULL
CHECKED BY:	P. SAURER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div style="display: flex; align-items: center;"> 0 <div style="flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: -5px;">1/2"</div> <div style="position: absolute; right: 0; top: 5px;">1</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, black 50%, white 50%); border: 1px solid black;"></div> </div> </div>



ORANGEBURG WASTEWATER
TREATMENT PLANT
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DATE:	JUNE 2024
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CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	M-09

File: C:\USERS\FBEATY\APPDATA\LOCAL\AUTOCAD PLANT 3D\COLORLABORATORY\ONCACHES\000 RCSD\PID DWG\1-01 SYMBOLS AND LEGEND Saved by FBEATY Save date: 10/16/2023 9:34 AM
PLOT DATE: 10/25/2023 3:47 PM BY: FBEATY

INSTRUMENT AND FUNCTION SYMBOLS					VALVE, GATE, AND ACTUATOR SYMBOLS				PUMP AND EQUIPMENT SYMBOLS				IDENTIFICATION LETTERS																										
LOCATION AND ACCESSIBILITY	SHARED DISPLAY/SHARED CONTROL		COMPUTER SYSTEMS AND SOFTWARE	DISCRETE									FIRST LETTERS		SUCCEEDING LETTERS																								
	PRIMARY CHOICE OR BASIC PROCESS CONTROL SYSTEM	SOFTWARE FUNCTION OR MODULE											MEASURED OR INITIATING VARIABLE	VARIABLE MODIFIER	READOUT/PASSIVE FUNCTION	OUTPUT/ ACTIVE FUNCTION	FUNCTION MODIFIER																						
- LOCATED IN FIELD - NOT PANEL, CABINET, OR CONSOLE MOUNTED - VISIBLE AT FIELD LOCATION - NORMALLY OPERATOR ACCESSIBLE						GATE VALVE		BACKFLOW PREVENTER		CENTRIFUGAL WET PIT PUMP (OR DRY-PIT SUBMERSIBLE)		FAN / BLOWER (CENTRIFUGAL)		GEAR PUMP OR BLOWER (POSITIVE DISPLACEMENT)	A	ANALYSIS	ALARM																						
- LOCATED IN OR ON FRONT OF CENTRAL OR MAIN PANEL OR CONSOLE - VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY - NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE						PLUG VALVE		PRESSURE RELIEF VALVE		SCREW PUMP		PISTON PUMP		DIAPHRAGM PUMP	B	BURNER, COMBUSTION	USER'S CHOICE																						
- LOCATED IN REAR OF CENTRAL OR MAIN PANEL - LOCATED IN CABINET BEHIND PANEL - NOT VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY - NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE						GLOBE VALVE		VACUUM RELIEF VALVE		METERING PUMP		COMPRESSOR		ROTARY LOBE PUMP OR BLOWER (POSITIVE DISPLACEMENT)	C	CONDUCTIVITY	CONTROL																						
- LOCATED IN OR ON FRONT OF SECONDARY OR LOCAL PANEL OR CONSOLE - VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY - NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE						BUTTERFLY VALVE		COMBINATION VACUUM AND PRESSURE RELIEF VALVE		PROGRESSIVE CAVITY PUMP		VERTICAL PUMP		INLINE GRINDER	D	DENSITY (MASS) OR SPECIFIC GRAVITY VOLTAGE (EMF)	SENSOR, PRIMARY ELEMENT																						
- LOCATED IN REAR OF SECONDARY OR LOCAL PANEL - LOCATED IN FIELD CABINET - NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE						DIAPHRAGM VALVE		PRESSURE-REDUCING REGULATOR		NEEDLE VALVE		AIR GAP CONNECTION		SCREEN	E	FLOW, FLOW RATE	GLASS, GAUGE, VIEWING DEVICE																						
						STOP LOG		STOP/SLIDE GATE		SOLENOID ACTUATOR		PNEUMATIC ACTUATOR		MANUAL ACTUATOR	F	USER'S CHOICE	INDICATE																						
						DUCKBILL CHECK VALVE				BALL CHECK VALVE					G	CURRENT	SCAN																						
<div><div> SUFFIX (X) TO DIFFERENTIATE BETWEEN INSTRUMENTS AND FUNCTIONS THAT WOULD OTHERWISE HAVE THE SAME IDENTIFICATION.</div><div> SINGLE INSTRUMENT OR OTHER COMPONENT HAVING MULTIPLE FUNCTIONS OR SHARING A COMMON HOUSING</div><div> DESIGNATIONS OF CONTROL FUNCTIONS (ZZZ) ASSOCIATED WITH INSTRUMENT OR OTHER COMPONENTS.</div><div><div><div>AHC - AUTO/HOLD/CLOSE</div><div>AM - AUTO/MANUAL</div><div>CALC - CALCULATION</div><div>DEV - DEVIATION</div><div>MOA - MANUAL/OFF/AUTO</div><div>HOR - HAND/OFF/REMOTE</div><div>LOS - LOCKOUT STOP</div><div>LR - LOCAL/REMOTE</div><div>LSR - LOCAL/STOP/REMOTE</div><div>OO - ON / OFF</div><div>OC - OPEN/CLOSE</div></div><div><div>OSC - OPEN/STOP/CLOSED</div><div>POT - POTENTIOMETER</div><div>RL - RAISE/LOWER</div><div>RS - RUN/STOP</div><div>RSL - RAISE/STOP/LOWER</div><div>SD - SHUTDOWN</div><div>SEL - SELECT</div><div>SP - SET POINT</div><div>SR - START/RESET</div><div>SS - STOP/START</div><div>VP - VACUUM/PRESSURE</div></div></div><div><div> INSTRUMENT WITH COMPUTING OR CONVERTING FUNCTION</div><div> PILOT LIGHT</div></div><div><div> CONTROL SYSTEM COMPUTING FUNCTION</div><div><div>CONVERT<div> E - VOLTAGE</div><div>I - CURRENT</div><div>P - PNEUMATIC</div><div>A - ANALOG</div><div>B - BINARY</div></div><div>COMPUTE<div> SUMMING</div><div> SUBTRACTOR</div><div> MULTIPLYING</div><div> DIVIDING</div><div> ROOT EXTRACTION</div></div><div><div>H - HYDRAULIC</div><div>O - ELECTROMAGNETIC, SONIC</div><div>R - RESISTANCE (ELECT.)</div><div>D - DIGITAL</div></div><div><div># = 1, 2, 3, etc.</div><div>REFER TO NOTE ON SAME SHEET FOR BRIEF DESCRIPTION</div></div></div><div><div> ELECTRICAL CONTROL INTERLOCK</div><div><div> COMPLEX INTERLOCK</div><div># = 1, 2, 3, etc.</div><div>REFER TO NOTE ON SAME SHEET FOR BRIEF DESCRIPTION</div></div><div><div> INSTRUMENTS/PANELS PROVIDED BY OTHER DISCIPLINES UNDER THIS CONTRACT</div></div></div></div></div>					MISCELLANEOUS SYMBOLS																																		
					<div><div> QUICK CONNECT</div><div> BLIND FLANGE</div><div> FLEXIBLE HOSE</div><div> CALIBRATION CYLINDER</div></div> <div><div> PULSATION DAMPENER</div><div> BUZZER</div><div> HORN</div></div> <div><div> STROBE</div><div> RUPTURE DISK</div><div> VENT</div></div> <div><div> DIAPHRAGM SEAL</div><div> FULL LINE OR TAPPED RING SEAL</div><div> DRAIN</div></div> <div><div> XXX-YYYYY EQUIPMENT OR PANEL TAG</div><div> MOTOR</div><div> CARTRIDGE FILTER</div></div> <div><div> AIR FILTER</div><div> STATIC MIXER</div><div> VISUAL LEAK STATION</div></div>																																		
PRIMARY ELEMENT SYMBOLS																																							
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ANALYTICAL ABBREVIATIONS									GENERAL NOTES					LINE SYMBOLS AND LEGEND																									
<div><div></div><div><div><div>AXX 12345</div><div>ZZZ</div></div><div><div>ZZZ =</div><div>COMB - COMBUSTIBLE GAS (METHANE)</div><div>H2S - HYDROGEN SULFIDE</div><div>O2 - OXYGEN</div></div></div></div>									<div><div></div></div>					<div><div></div></div>					<div><div></div></div>					<div><div></div></div>				<div><div></div></div>				<div><div></div></div>				<div><div></div></div>			
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AXX 12345 | ANALYSIS INSTRUMENT | (ZZZ) = COMB - COMBUSTIBLE GAS (METHANE) H2S - HYDROGEN SULFIDE O2 - OXYGEN |

				PROJECT ENGINEER:	R. FROST	FOR BID		<h1>Hazen</h1> <p>HAZEN AND SAWYER 498 SEVENTH AVENUE, 11TH FLOOR NEW YORK, NEW YORK 10018</p>	ROCKLAND COUNTY SEWER DISTRICT NO.1 ORANGEBURG, NEW YORK	ORANGEBURG WASTEWATER TREATMENT PLANT SCREENING IMPROVEMENTS PROJECT	INSTRUMENTATION PROCESS AND INSTRUMENTATION DIAGRAM SUPPORT SYSTEMS	DATE:	JUNE 2024
				DESIGNED BY:	F. BEATY							HAZEN NO.:	90462-000
				DRAWN BY:	F. BEATY				CONT NO.:	RFB-RC-SWR-2023-06			
				CHECKED BY:	G. MARKOU				DRAWING NUMBER:	I-03			
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE		0	1/2"	1"					
REV	ISSUED FOR	DATE	BY										

I-40-0905

I-40-0506

NOTE 1: GAS SENSOR SHALL BE LOCATED APPROXIMATELY 6" ABOVE THE FLOOR FOR GASSES HEAVIER THAN AIR (H2S) AND APPROXIMATELY 6" BELOW THE CEILING FOR GASSES LIGHTER THAN AIR (METHANE). OXYGEN SENSORS SHALL BE MOUNTED AT APPROXIMATELY 5'-0" ABOVE FINISHED FLOOR.

PLAN VIEW
RADAR LEVEL TRANSMITTER
WALL MOUNTING DETAIL
I-40-0212

SECTION


I-40-0303

I-40-0107

EXACT MOUNTING LOCATION TO BE DETERMINED BASED ON EQUIPMENT SUPPLIED AND SENSOR BEAM ANGLE.

TYPICAL FLOAT TYPE LEVEL SWITCH
MOUNTING DETAILS
I-40-0206

NON-CONTACTING RADAR LEVEL TRANSMITTERS AT MECHANICAL SCREEN
CHAIN SUSPENSION MOUNTING
1-40-0218

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	F. BEATY
				DRAWN BY:	F. BEATY
				CHECKED BY:	G. MARKOU
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY		

FOR BID



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11TH FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

INSTRUMENTATION INSTALLATION DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	

I-04

Autodesk Docs/04662-000_EDS and CA for RCSD Streets Rehab/0462-000-100-MSB-P.rvt
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HOSE BIBB TO BE
REMOVED

DEMOLISH DOMESTIC COLD
WATER BACK TO WALL, CAP
FOR RECONNECTION

DEMOLISH EFFLUENT
WATER BACK TO WALL,
CAP FOR RECONNECTION

1" EFFLUENT AND DOMESTIC COLD WATER
AND ALL ASSOCIATED FITTINGS AND
EQUIPMENT TO BE DEMOLISHED

EXISTING HYDRONIC
PIPING TO BE DEMOLISHED

HOSE BIBB TO BE
REMOVED

HOSE BIBB TO BE
REMOVED

EXISTING HYDRONIC
PIPING TO BE DEMOLISHED

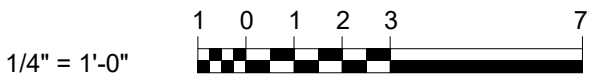
STORM DRAIN TO BE
DISCONNECTED AND
CAPPED FOR FUTURE
CONNECTION

EXISTING STORM
DRAIN TO BE
DEMOLISHED

EXISTING STORM DRAIN TO BE
DEMOLISHED. COORDINATE
DEMOLITION CONNECTION TO
EXISTING SITE DRAINAGE
SYSTEM WITH SITE CIVIL.

DEMOLITION PLAN EL 70.50

1/4" = 1'-0"



REV	ISSUED FOR	DATE	BY
0	BID	06/2024	pds

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

FOR BID



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING REMOVAL
PLAN EL 70.50





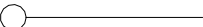





DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DP-01

GENERAL NOTES


1. AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS PLUMBING CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
2. ALL WORK SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.
3. DUCTWORK & PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING & DUCTWORK SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
4. THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
5. EXISTING CONDITION HAVE BEEN GENERATED FROM AVAILABLE AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS IN FIELD AND DEVIATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PERFORMING THE WORK.
6. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
8. WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.
9. ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
10. THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
11. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
12. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
14. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
15. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
16. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
17. ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH GENERAL CONTRACTOR. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
18. ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR
19. LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPULINS AND EXHAUST TO CONTAIN AIRBORNE MATERIALS.
20. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
21. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
22. ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
23. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.

PLUMBING NOTES

- AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYC BUILDING CODE, NYC PLUMBING CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
2. CONTRACTOR TO OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
3. PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
4. CONTRACTOR TO SUBMIT PLUMBING DIAGRAM FOR APPROVAL PRIOR TO PERFORMING WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL NEW MATERIAL, WORK AND EQUIPMENT INSTALLED UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
6. ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ONLY.
7. PROVIDE ALL CUTTING, PATCHING, AND CLEAN-UP.
8. PIPING SUPPORTS SHALL BE INSTALLED AS DETAILED ON DWGS AND IN CONFORMANCE WITH APPLICABLE CODES HAVING JURISDICTION.
9. PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES IN ALL MASONRY WALLS, FLOORS AND PARTITIONS PENETRATED BY PIPING. IN SHEET ROCK PARTITION PROVIDE 22 GAUGE GALVANIZED SLEEVES. ALLOW ROOM IN SLEEVE FOR INSULATION. PACK OPENING AROUND PIPING IN SLEEVE WITH U.L. APPROVED FIRE RATED MATERIAL.
10. PROVIDE BALL VALVES FOR ISOLATION ON ALL BRANCH PIPING AT CONNECTIONS TO MAINS AND AT ALL CONNECTIONS TO EQUIPMENT. VALVES SHALL BE EQUAL TO NIBCO FIG. S-580 WITH SOLDERED JOINTS.
11. INSULATE ALL HOT, COLD WATER, AND PUMP DISCHARGE PIPING. INSULATION SHALL BE ONE PIECE FLEXIBLE ELASTOMERIC WITH ALL SERVICE JACKET WITH SELF SEALING LAP JOINT. DO NOT USE STAPLES TO SEAL VAPOR BARRIER. INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD OF (25) AND MAXIMUM SMOKE DEVELOPED RATING OF (50). INSULATION SHALL BE 1" THICK FOR INTERIOR PIPING AND 2" THICK FOR EXTERIOR PIPING.
12. LABEL AND IDENTIFY PIPING SERVICE USING SAME DESIGNATIONS OR ABBREVIATIONS AS USED ON THE DRAWINGS; ALSO INCLUDE PIPE SIZE AND ARROW INDICATING FLOW DIRECTION. UTILIZE STICK ON LABELS AS MFR'D BY SETON NAMEPLATE OR EQUAL.
13. PROVIDE CHROME PLATED PIPING WHERE PIPING IS EXPOSED BELOW FIXTURES, CEILINGS AND WALLS. PROVIDE CHROME PLATED ESCUTCHEONS AROUND ALL PIPING PENETRATING FINISHED WALLS AND ON PIPING EXPOSED TO VIEW.
14. HOT AND COLD WATER PIPING SHALL BE TESTED HYDROSTATICALLY TO 1 1/2 TIMES ITS NORMAL WORKING PRESSURE OR 100 PSI WHICHEVER IS GREATER, FOR A MINIMUM OF 2 HOURS. REPAIR ANY LEAKS AND REPEAT SAME TO THE SATISFACTION OF THE ENGINEER AND OWNER.
15. DISINFECT DOMESTIC WATER PIPING IN ACCORDANCE WITH GOVERNING CODES HAVING JURISDICTION.
16. COORDINATE SANITARY WORK WITH GC AND FACILITY MANAGER. ALL SANITARY AND VENT PIPING TO BE LOCATED AND ROUTED IN FIELD. ALL VENT AND SANITARY PIPING TO BE CONNECTED TO EXISTING BUILDING SANITARY.
17. PITCH ALL SANITARY PIPING IN DIRECTION OF FLOW A MINIMUM OF 1/4" PER FOOT. PROVIDE CLEAN OUTS IN SANITARY PIPING AT ALL CHANGES IN DIRECTION IN HORIZONTAL PIPING.
18. PROVIDE ACCESS DOORS IN WALLS, CEILINGS AND FLOORS AS REQUIRED FOR SERVICING VALVES, CLEAN OUTS AND ITEMS REQUIRING MAINTENANCE.
19. TEST ALL PIPING IN ACCORDANCE WITH N.Y.S. PLUMBING CODE AND GOVERNING AUTHORITY HAVING JURISDICTION.
20. TEST AND ADJUST AS REQUIRED ALL EQUIPMENT AND PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES, AND MANUFACTURERS RECOMMENDATIONS, FOR COMPLETE FUNCTIONING SYSTEM.
21. UPON COMPLETION OF ALL WORK, ALL EQUIPMENT, FIXTURES, PIPING, ETC. SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING WORK BY OTHERS
	WORK TO BE PROVIDED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	RISER
	ELBOW DOWN
	BALL VALVE
CW	COLD WATER
EW	EFFLUENT WATER
V	VENT
	HOSE BIB
	ISOLATION VALVE
SAN	SANITARY
FD	FLOOR DRAIN
CO	CLEANOUT
FCO	FLOOR CLEAN OUT
WCO	WALL CLEANOUT
VTR	VENT THROUGH ROOF
ETR	EXISTING TO REMAIN
	DENOTES REDUCED PRESSURE ZONE

NOTE: ALL WORK IS TO BE PROVIDED UNLESS OTHERWISE NOTED

					PROJECT ENGINEER:	R. FROST
					DESIGNED BY:	J. ROSS
					DRAWN BY:	K. TREANOR
					CHECKED BY:	G. LYNCH
0	BID	06/2024	pds	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE		<div> <div>0</div> <div>1/2"</div> <div>1</div>  </div>
REV	ISSUED FOR	DATE	BY			

PROJECT ENGINEER:	R. FROST
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0 1/2" 1

A graphic scale bar with alternating black and white segments. It is marked with '0' at the left end, '1/2"' at the midpoint, and '1' at the right end.

The image shows the EDR logo, which consists of the letters "EDR" in a large, grey, sans-serif font. A green horizontal bar is positioned behind the letter "E". Below the logo, the text "a better environment" is written in a smaller, green, sans-serif font. To the left of the logo, the text "FOR BID" is written in a large, bold, black, sans-serif font. To the right of the logo, the text "SEE LISTING" is written in a large, bold, black, sans-serif font. Below the logo, there is a circular seal for the State of New York. The seal features the text "STATE OF NEW YORK" at the top, "MICHAEL E. TARDINO" in the center, and "LICENSED PROFESSIONAL ENGINEER" at the bottom. The seal also includes the number "073737" and a small emblem in the center.

Hazen

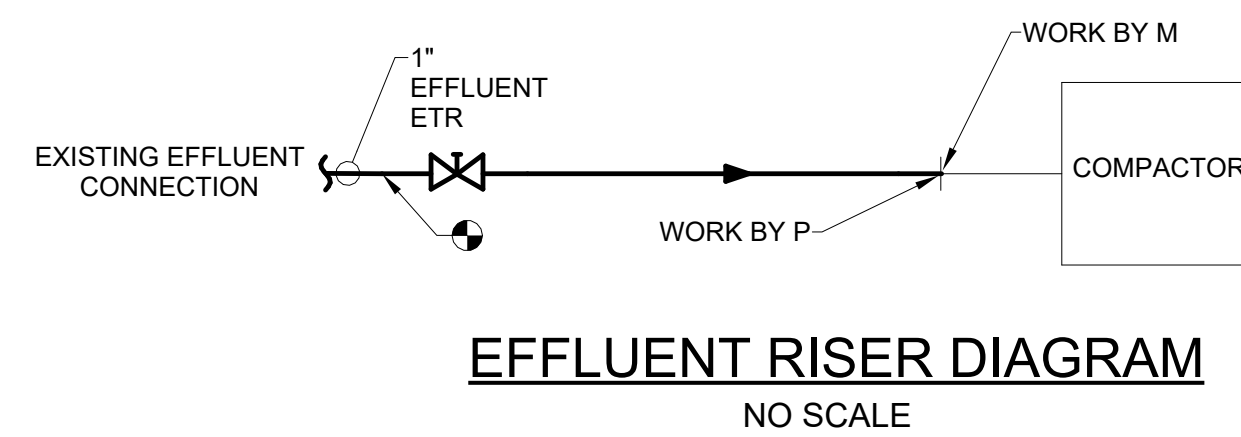
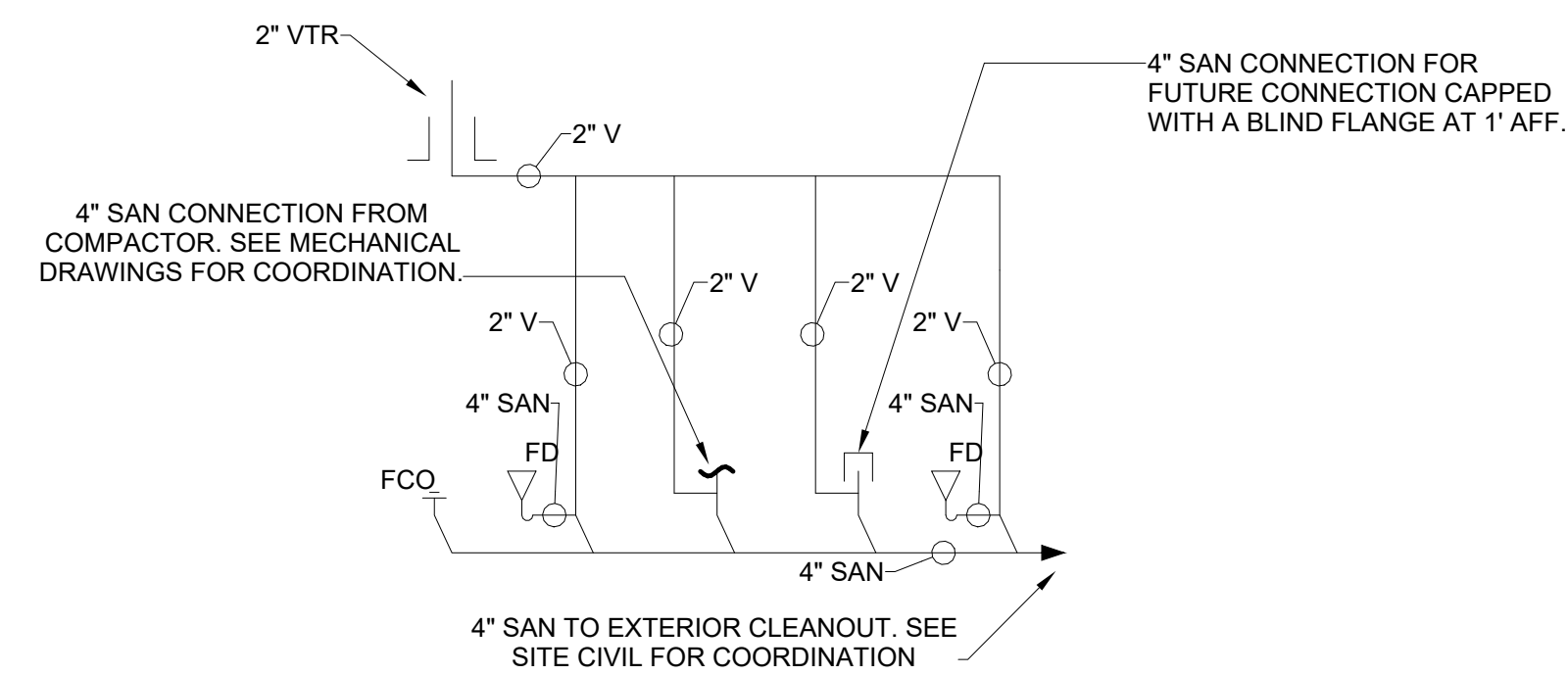
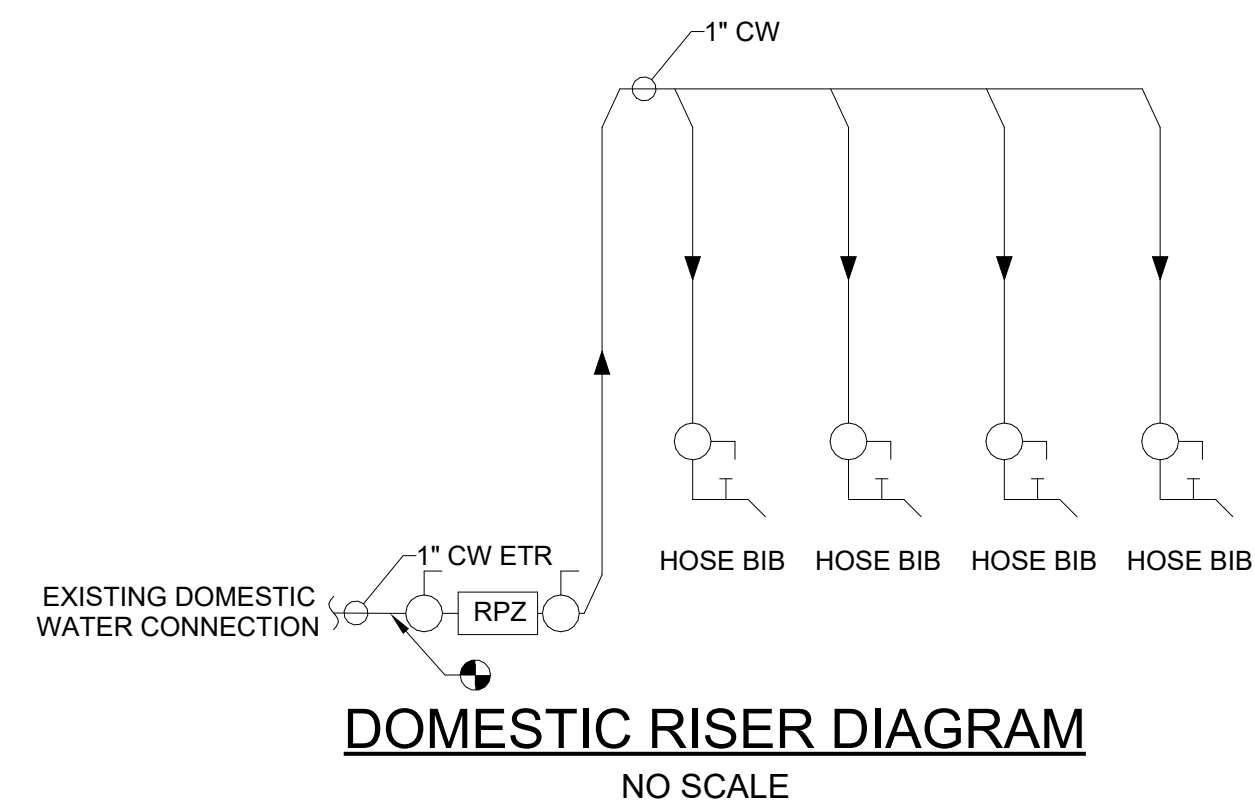
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

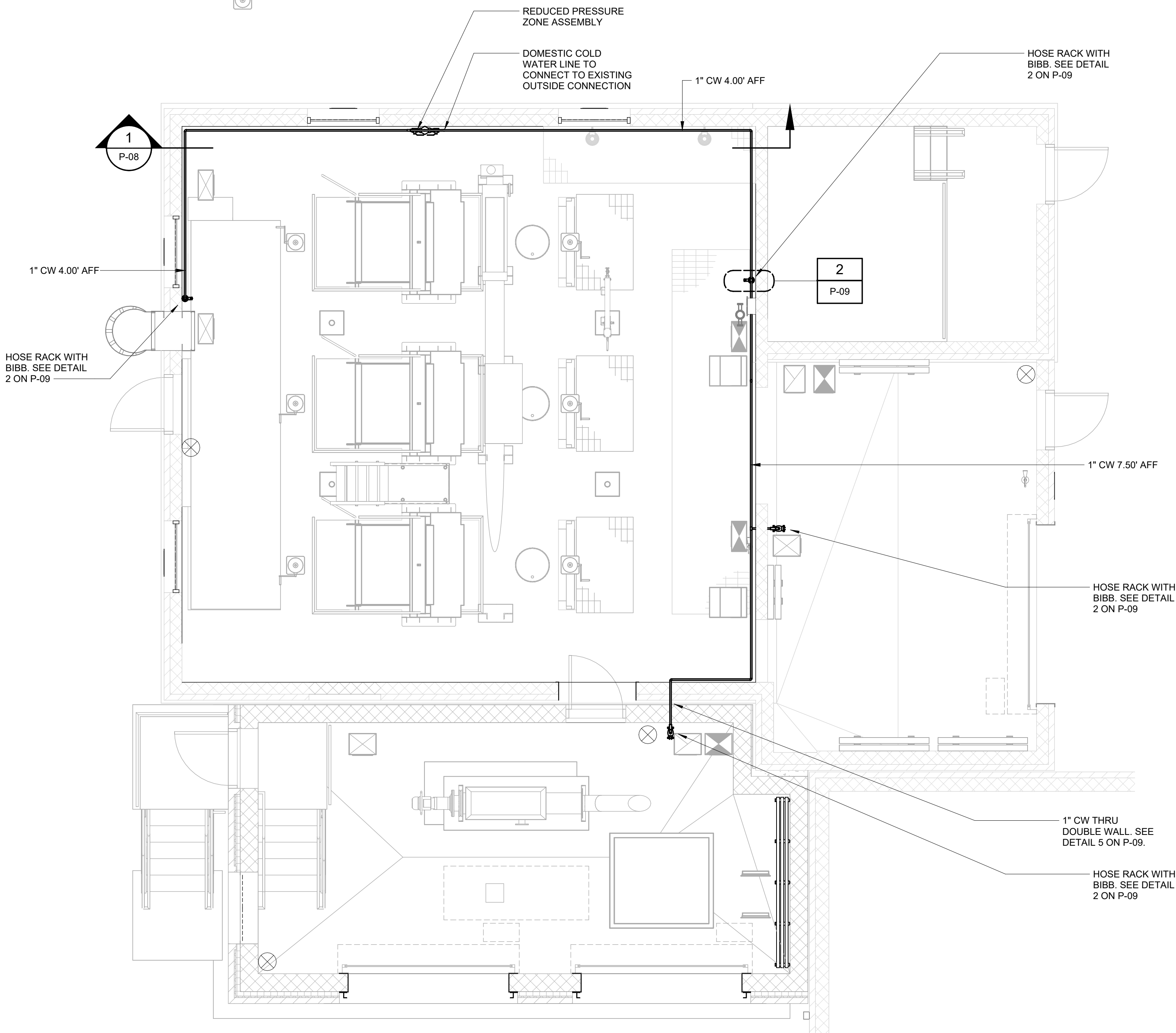
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING NOTES AND LEGEND

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	P-01



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DOMESTIC PLAN EL 70.50

1/4" = 1'-0"



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0	BID	06/2024	pds

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FOR BID



Hazen

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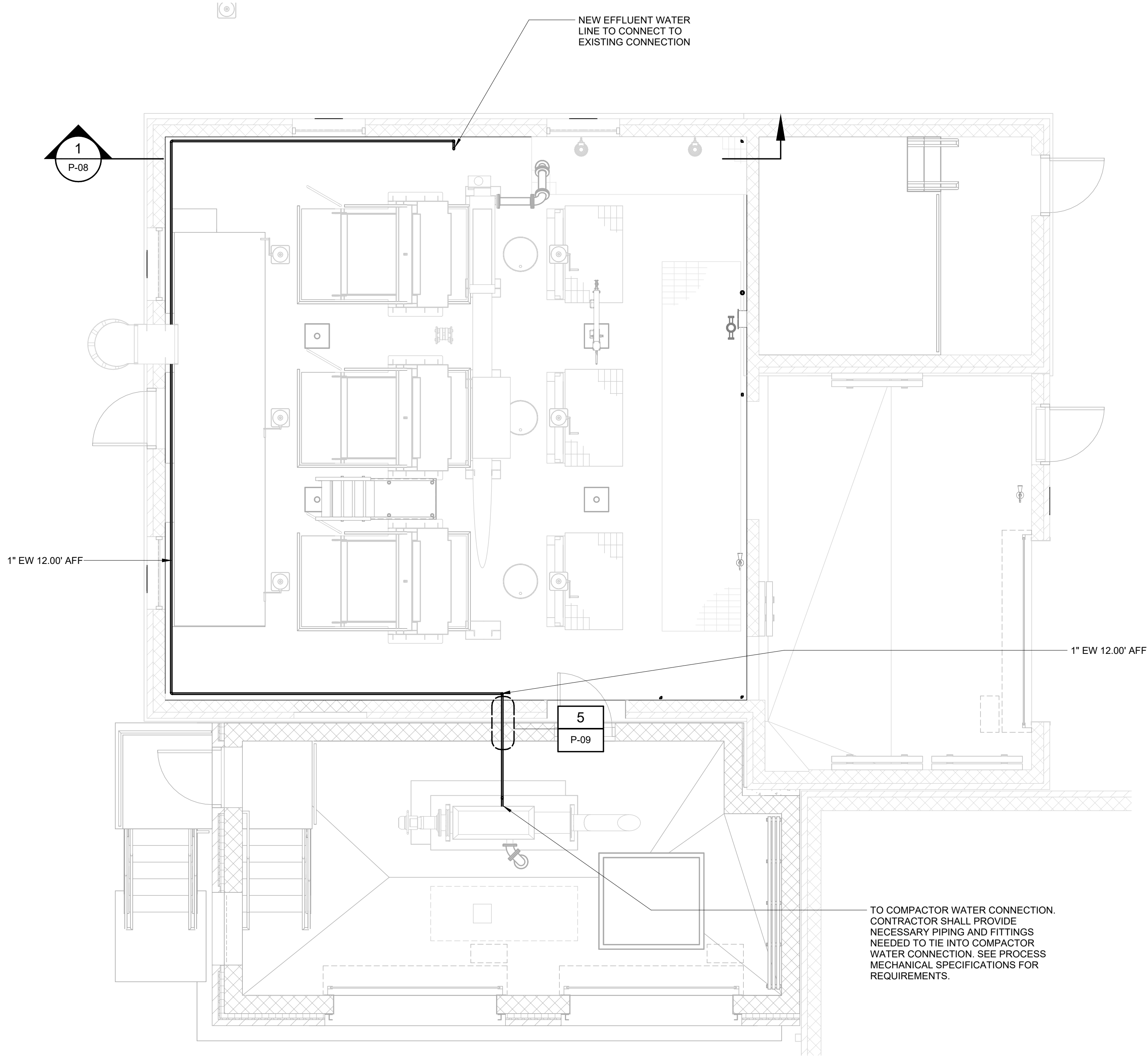
ROCKLAND COUNTY SEWER DISTRICT NO.1
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ORANGEBURG WASTEWATER
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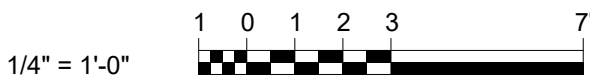
PLUMBING
DOMESTIC PLAN EL 70.50

DATE:	JUNE 2024
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DRAWING NUMBER:	P-03

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EFFLUENT PLAN EL 70.50
1/4" = 1'-0"



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IF THIS BAR DOES NOT MEASURE 1\"/>	

FOR BID

Hazen

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498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

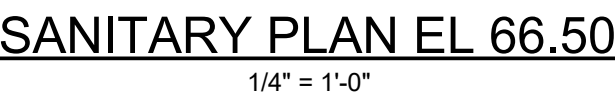
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
EFFLUENT PLAN EL 70.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	P-04

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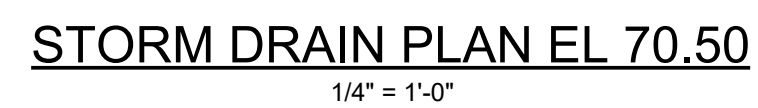

$$1/4'' = 1'-0''$$


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498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
SANITARY PLAN EL 66.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	P-05



1/4" = 1'-0"



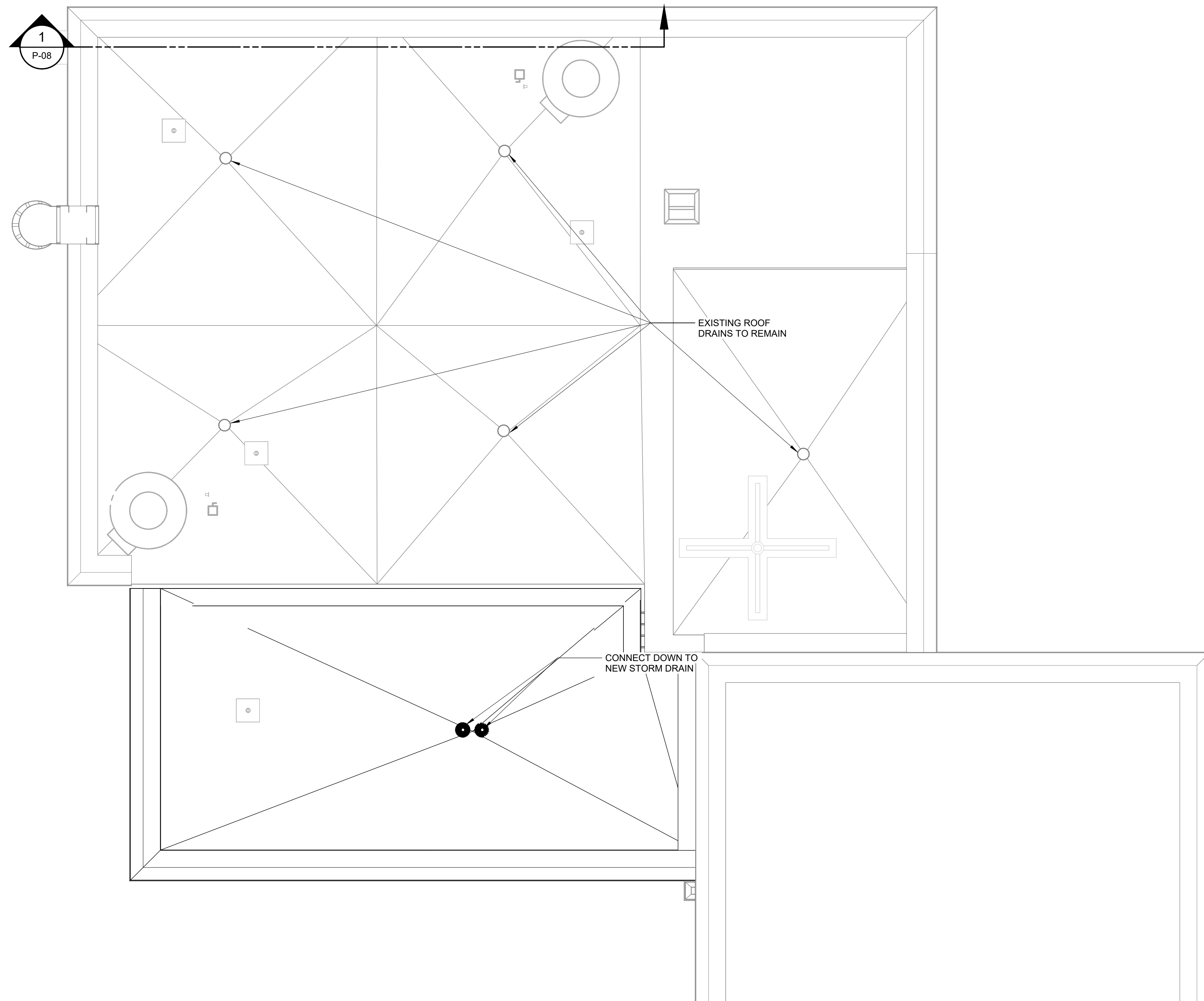
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NEW YORK, NEW YORK 10018

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	P-06



1/4" = 1'-0"

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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

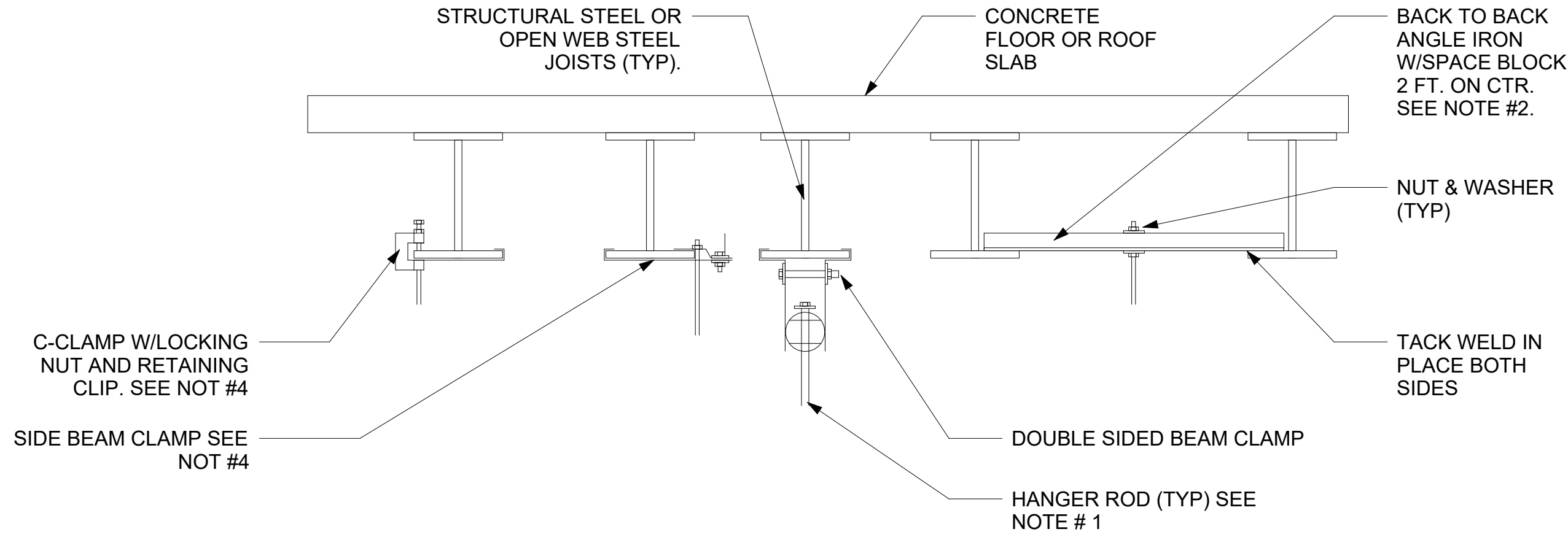
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	P-07

0	BID	06/2024	pds
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">0 1/2" 1</div>  </div>

FOR BID

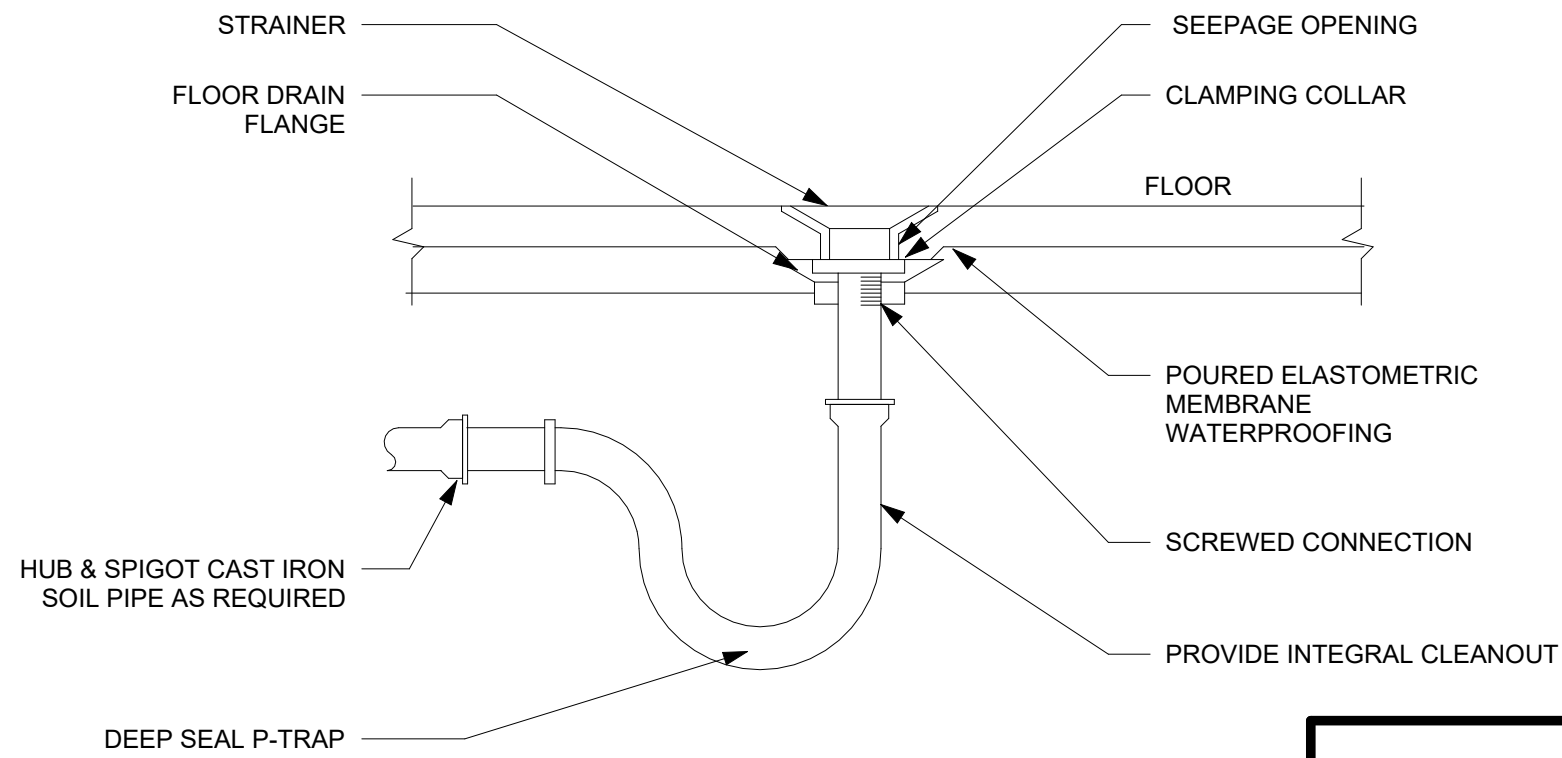


INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE												
NOMINAL PIPE OR TUBE SIZE- INCHES	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12
HANGER ROD SIZES - INCHES	3/8	3/8	3/8	1/2	1/2	1/2	5/8	5/8	7/8	7/8	7/8	7/8
MAXIMUM SPACING BETWEEN PIPE SUPPORTS- FEET	6	7	9	10	11	12	14	16	17	19	22	23
MAXIMUM SPACING BETWEEN COPPER TUBE SUPPORTS - FEET	6	6	8	9	10	10	12	14	14	16	18	20
NOTES: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD.												

- NOTES:
- REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
 - FOR PIPES UNDER 2" US A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x2"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
 - REPAIR OF FIRE PROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING CONSTRUCTION SHALL BE BY THE CONTRACTOR.
 - USE OF C-CLAMPS AND SIDE BEAM CLAMPS LIMITED TO PIPING 2-1/2" AND UNDER.

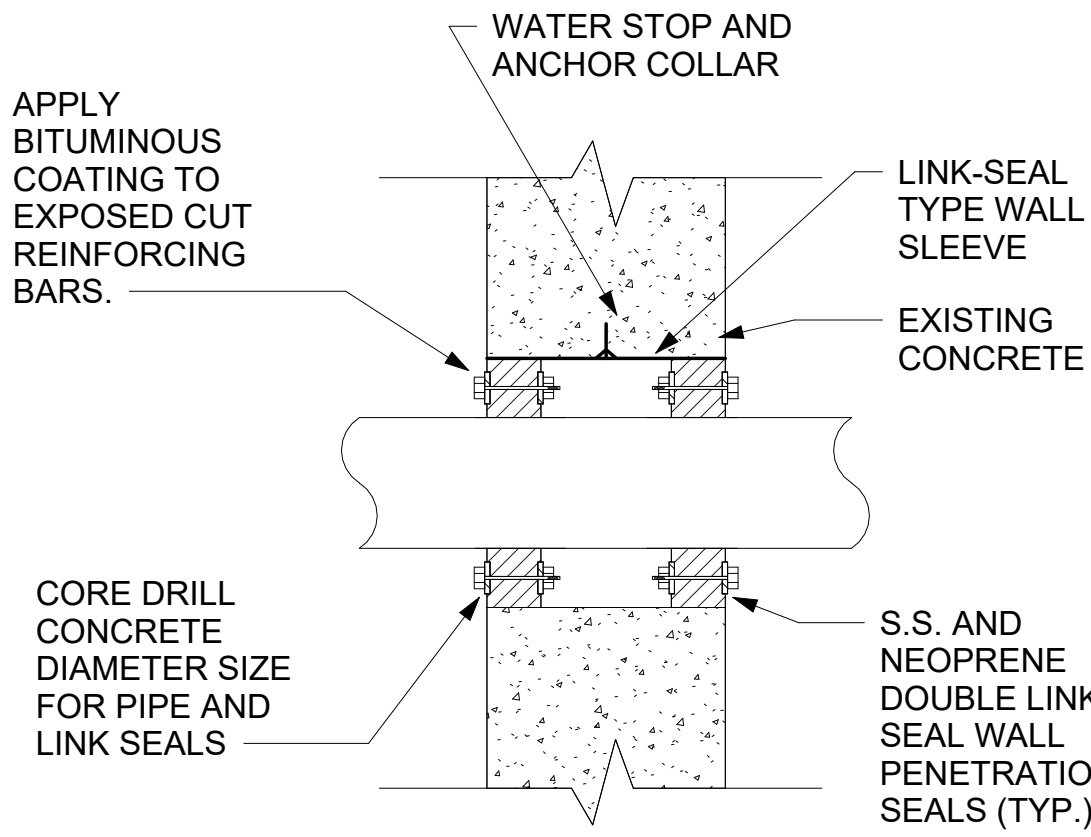
PIPE SUPPORT DETAIL

DETAIL	1
NTS	-



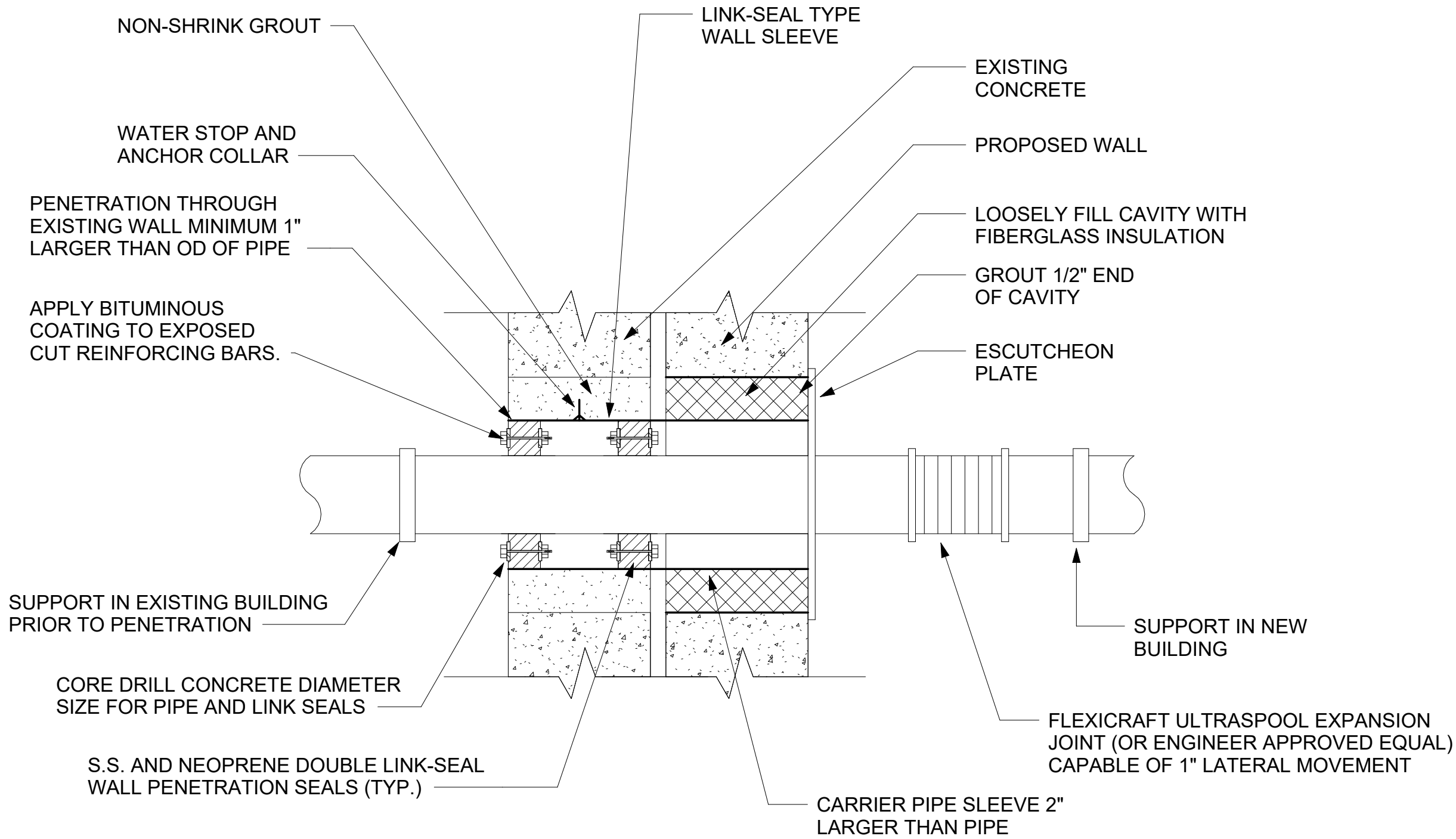
FLOOR DRAIN DETAIL

DETAIL	3
NTS	P-05



PIPE PENETRATION DETAIL

DETAIL	4
NTS	-



DOUBLE WALL PIPE PENETRATION DETAIL

DETAIL	5
NTS	P-04

EDR
a better environment



Hazen

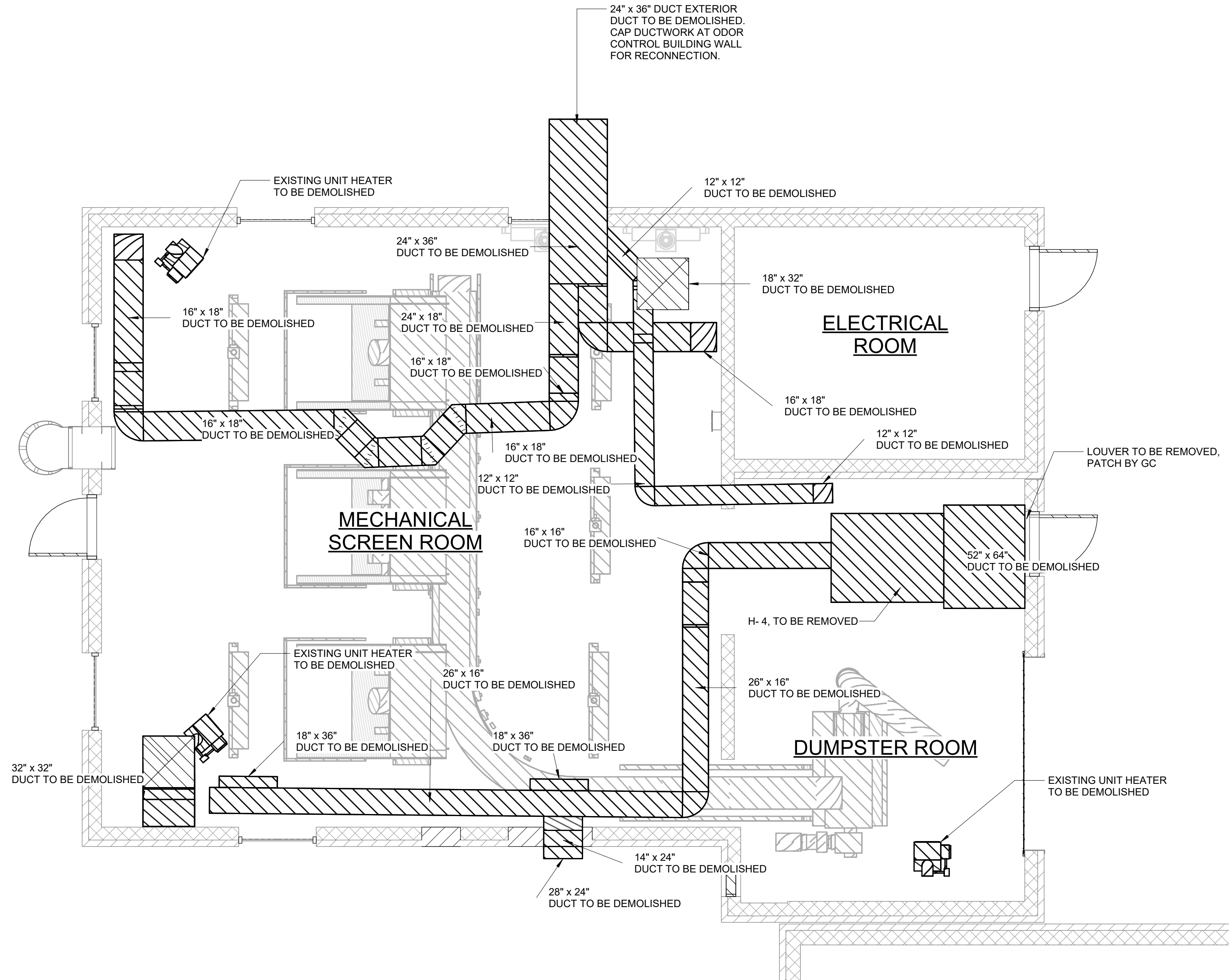
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NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	P-09



DEMOLITION PLAN EL 70.50
1/4" = 1'-0"



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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC REMOVAL
PLAN EL 70.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DH-01

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

0	BID	06/2024	PDS
REV	ISSUED FOR	DATE	BY

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6/24/2024 7:36:17 PM


$$1/4'' = 1'-0''$$


				<div>PROJECT ENGINEER: R. FROST</div> <div>DESIGNED BY: J. ROSS</div> <div>DRAWN BY: K. TREANOR</div> <div>CHECKED BY: G. LYNCH</div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE</div> <div><div>01/2"1"</div><div><div></div></div></div>		<div>FOR BID</div> <div><div><div>STATE OF NEW YORK</div><div><div></div></div><div>073737</div><div>LICENSED PROFESSIONAL ENGINEER</div></div></div>		<div>Hazen</div> <div>HAZEN AND SAWYER</div> <div>498 SEVENTH AVENUE, 11th FLOOR</div> <div>NEW YORK, NEW YORK 10018</div>		<div>ROCKLAND COUNTY SEWER DISTRICT NO.1</div> <div>ORANGEBURG, NEW YORK</div> <div>ORANGEBURG WASTEWATER TREATMENT PLANT</div> <div>SCREENING IMPROVEMENTS PROJECT</div>		<div>HVAC REMOVAL</div> <div>PLAN EL 88.00</div>		<div>DATE: JUNE 2024</div> <div>HAZEN NO.: 90462-000</div> <div>CONT NO.: RFB-RC-SWR-2023-06</div> <div>DRAWING NUMBER: DH-02</div>	
<div>0BID06/2024PDS</div> <div>REVISSUED FORDATEBY</div>															

GENERAL NOTES

1.

AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS MECHANICAL CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK, IF THE CONTRACT DOCUMENTS SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
2.

ALL WORK SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.
3.

DUCTWORK & PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING & DUCTWORK SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
4.

THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION, SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
5.

THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
6.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
7.

WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.
8.

ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
9.

THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
10.

THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
11.

THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
12.

THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
13.

ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
14.

ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
15.

ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
16.

ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH GENERAL CONTRACTOR. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
17.

ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR
18.

LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPAULINS AND EXHAUST TO CONTAIN AIRBORNE MATERIALS.
19.

THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
20.

THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
21.

ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
22.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
23.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.

HVAC NOTES

1.

PROVIDE SLEEVES FOR ALL DUCTS PENETRATING AND PASSING THROUGH ALL PARTITIONS, FLOORS, CEILINGS AND WALLS. ALLOW ROOM IN SLEEVE FOR INSULATION. SLEEVES SHALL BE MINIMUM OF 22 GAUGE SHEET METAL. PACK ANNULAR SPACE IN SLEEVE AROUND DUCT WITH FIRE RATED MATERIAL, SIMILAR TO THERMAFIBER. SEAL AND CAULK ALL WALL, FLOOR, CEILING AND SLAB OPENINGS WITH U.L. APPROVED FIRE RATED MATERIAL TO PREVENT TRANSMISSION OF ODORS AND SMOKE TO ADJACENT SPACES. ALL DUCT PENETRATIONS OF FIRE RATED WALLS AND SLABS SHALL BE EQUIPPED WITH FIRE/SMOKE RATED DAMPERS.
2.

CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL CEILINGS, DUCTS, CHASES AND WALLS AS REQUIRED FOR ACCESS TO ALL CONCEALED OPERATING DEVICES INCLUDING BUT NOT LIMITED TO FIRE DAMPERS, VOLUME DAMPERS,CONTROL DAMPERS AND BOXES, ETC.
3.

ALL HVAC WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NYS MECHANICAL CODE, STATE AND LOCAL BUILDING CODES, SMACNA AND ASHRAE STANDARDS, NFPA-90A, ALL CODES AND ORDINANCES HAVING JURISDICTION, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AT A MINIMUM.
4.

UPON COMPLETION OF ALL WORK, ALL EQUIPMENT AND DUCTWORK SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.
5.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
6.

ALL EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES, MANUFACTURER SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.
7.

BALANCE AND ADJUST AIRFLOW TO REGISTERS AND GRILLES AS INDICATED ON DRAWINGS. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 10% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB. SUBMIT BALANCING REPORT TO ENGINEER FOR APPROVAL.
8.

CONTRACTOR SHALL PROVIDE ALL CONTROLS AND CONTROL WIRING AS REQUIRED FOR COMPLETE CONTROL OF EQUIPMENT FOR A COMPLETE FUNCTIONING SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR STANDARDS OF CONSTRUCTION.
9.

INSTALL ALL REQUIRED APPURTENANCES PER CODE WHETHER SPECIFIED OR NOT FOR COMPLETE FUNCTIONING SYSTEMS.

LEGEND

SYMBOL	DESCRIPTION
	EXISTING WORK BY OTHERS
	WORK TO BE PROVIDED
	WORK TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	RISER
	ELBOW DOWN
	UNION
	EXHAUST DUCT
	RETURN DUCT
	SUPPLY DUCT
	DUCT ELBOW WITH TURNING VANES
	AIR TERMINAL
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	MOTORIZED OPERATED DAMPER
	DUCT MOUNTED TEMPERATURE SENSOR
	THERMOSTAT
DPS	DIFFERENTIAL PRESSURE SWITCH
SA	SUPPLY AIR
EA	EXHAUST AIR
OC	ODOR CONTROL
OA	OUTSIDE AIR
RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
RAG	RETURN AIR GRILLE
EAG	EXHAUST AIR GRILLE
SAG	SUPPLY AIR GRILLE
EF-1	DENOTES EXHAUST FAN NO. 1
EUH-1	DENOTES ELECTRIC UNIT HEATER NO. 1
L-1	DENOTES LOUVER NO. 1
SF-1	DENOTES SUPPLY FAN NO. 1

NOTE: ALL WORK IS TO BE PROVIDED UNLESS OTHERWISE NOTED

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REV	ISSUED FOR	DATE	BY

	PROJECT ENGINEER:	R. FROST
	DESIGNED BY:	J. ROSS
	DRAWN BY:	K. TREANOR
	CHECKED BY:	G. LYNCH
	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	



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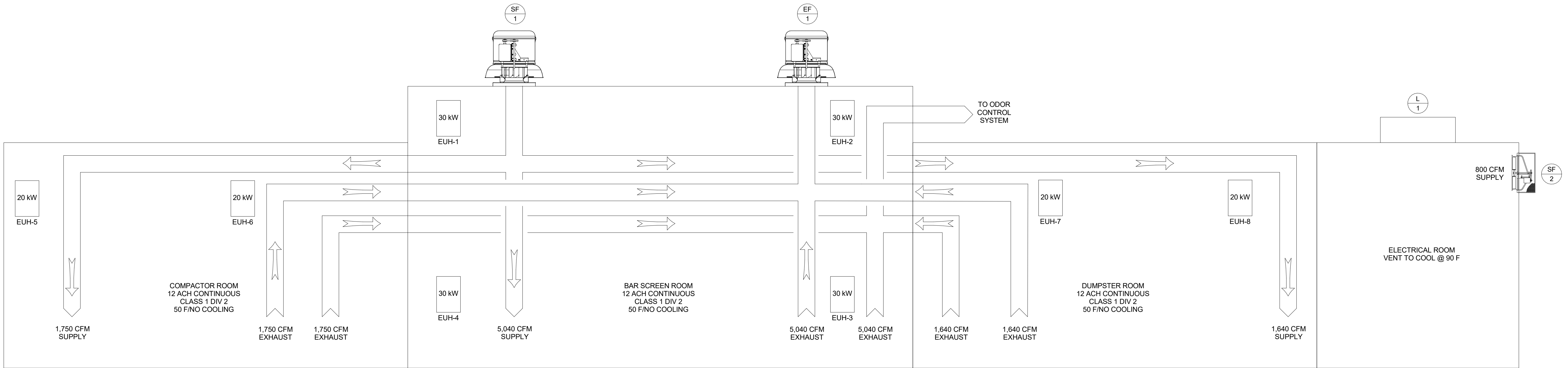
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ROCKLAND COUNTY SEWER DISTRICT NO.1
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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC
LEGEND AND NOTES

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	H-01



AIRFLOW DIAGRAM
NO SCALE



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HVAC
AIRFLOW DIAGRAM

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER: H-02

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FAN SCHEDULE

TAG	NAME	ROOM LOCATION	ARRANGEMENT	AIRFLOW (CFM)	ESP	RPM	BHP	HP	FEG	VOLTAGE	PHASE	FREQUENCY	dBA	WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	COMMENTS
SF-1	BAR SCREEN SUPPLY FAN	BAR SCREEN ROOM	ROOF TOP SUPPLY FAN	8,430	1 IN WC	1995	3.996	5	75	460	3	60	75	662	COOK	225QMXS	2, 3, 4
EF-1	BAR SCREEN EXHAUST FAN	BAR SCREEN ROOM	ROOF TOP EXHAUST FAN	8,430	1 IN WC	2078	4.731	7 1/2	67	460	3	60	76	598	COOK	225QMXE	1, 2, 3, 4
SF-2	ELECTRICAL ROOM SUPPLY FAN	ELECTRICAL ROOM	PROPELLER WALL SUPPLY FAN	930	.33 IN WC	860	0.130	1/2	-	460	3	60	64	73	COOK	24EWS612D08	
NOTES: 1. FAN TO BE STANDBY 2. FAN SHALL BE SPARK RESISTANT B 3. EXPLOSION PROOF 4. PROVIDE WITH CURB ADAPTER AS REQUIRED TO MATCH EXISTING 32"x32" ROOF OPENING.																	

ELECTRIC UNIT HEATER SCHEDULE

NAME	ROOM LOCATION	VOLTAGE	POWER (KW)	CAPACITY (MBH)	MOTOR HP	CFM	HORIZ. AIR THROW (ft.)	WEIGHT (LBS)	MANUFACTURER	AREA CLASSIFICATION	COMMENTS
EUH-1, EUH-2, EUH-3, EUH-4	BAR SCREEN ROOM	480/3/60	30	102.3	30	2,330	54	216	QMARK GUX30004832	CLASS 1, DIV. 2, GROUP D	1, 2, 3
EUH-5, EUH-6	DUMPSTER ROOM	480/3/60	20	68.2	20	1,400	43	171	QMARK GUX20004832	CLASS 1, DIV. 2, GROUP D	1, 2, 3
EUH-7, EUH-8	COMPACTOR ROOM	480/3/60	20	68.2	20	1,400	43	171	QMARK GUX20004832	CLASS 1, DIV. 2, GROUP D	1, 2, 3
NOTES: 1. UNIT SHALL BE EXPLOSION PROOF 2. PROVIDE UNIT WITH DISCONNECT 3. PROVIDE UNIT WITH INTEGRAL THERMOSTAT											

AIR TERMINALS

UNIT NO.	NO.	LOCATION	CFM (MAX/MIN)	ESP ("WG)	DIMENSIONS LxW (INCHES)	BLADE SPACING (INCHES)	MATERIAL	NC	THROW (FEET)	MFR. & MODEL NO.	REMARKS
SG-1	4	BAR SCREEN ROOM	1260	.183	18x12	3/4"	ALUMINUM	35	45	TITUS 301RL	1
EG-1	8	BAR SCREEN ROOM	1260	.099	24x12	3/4"	ALUMINUM	35	-	TITUS 350R	1
SG-2	2	COMPACTOR ROOM	875	.183	12x12	3/4"	ALUMINUM	35	40	TITUS 301RL	1
EG-2	4	COMPACTOR ROOM	875	.130	18x10	3/4"	ALUMINUM	35	-	TITUS 350R	1
SG-3	2	DUMPSTER ROOM	820	.183	18x8	3/4"	ALUMINUM	40	40	TITUS 301RL	1
EG-3	4	DUMPSTER ROOM	820	.130	18x10	3/4"	ALUMINUM	40	-	TITUS 350R	1
EG-4	1	ELECTRICAL ROOM	925	.263	22x6	3/4"	ALUMINUM	40	-	TITUS 350R	1
NOTES: 1. COORDINATE GRILLE INSTALLATION WITH OTHER TRADES											

LOUVER PENTHOUSE SCHEDULE

NAME	HOOD SIZE	CURB CAP SIZE	HEIGHT	MINIMUM FREE AREA (SQ. IN.)	STATIC PRESSURE DROP	MFR. & MODEL NUMBER	REMARKS
L-1	23.75"x 23.75"	17.5." x 17.5"	9"	144	0.15"	TRE RELIEF DUCTED 12x12x2	1, 2
NOTES: 1. PROVIDE UNIT WITH MANUFACTURERS ROOF CURB 2. PROVIDE UNIT WITH BIRDSCREEN							



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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC
SCHEDULES

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	H-03

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

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$$1/4'' = 1'-0''$$

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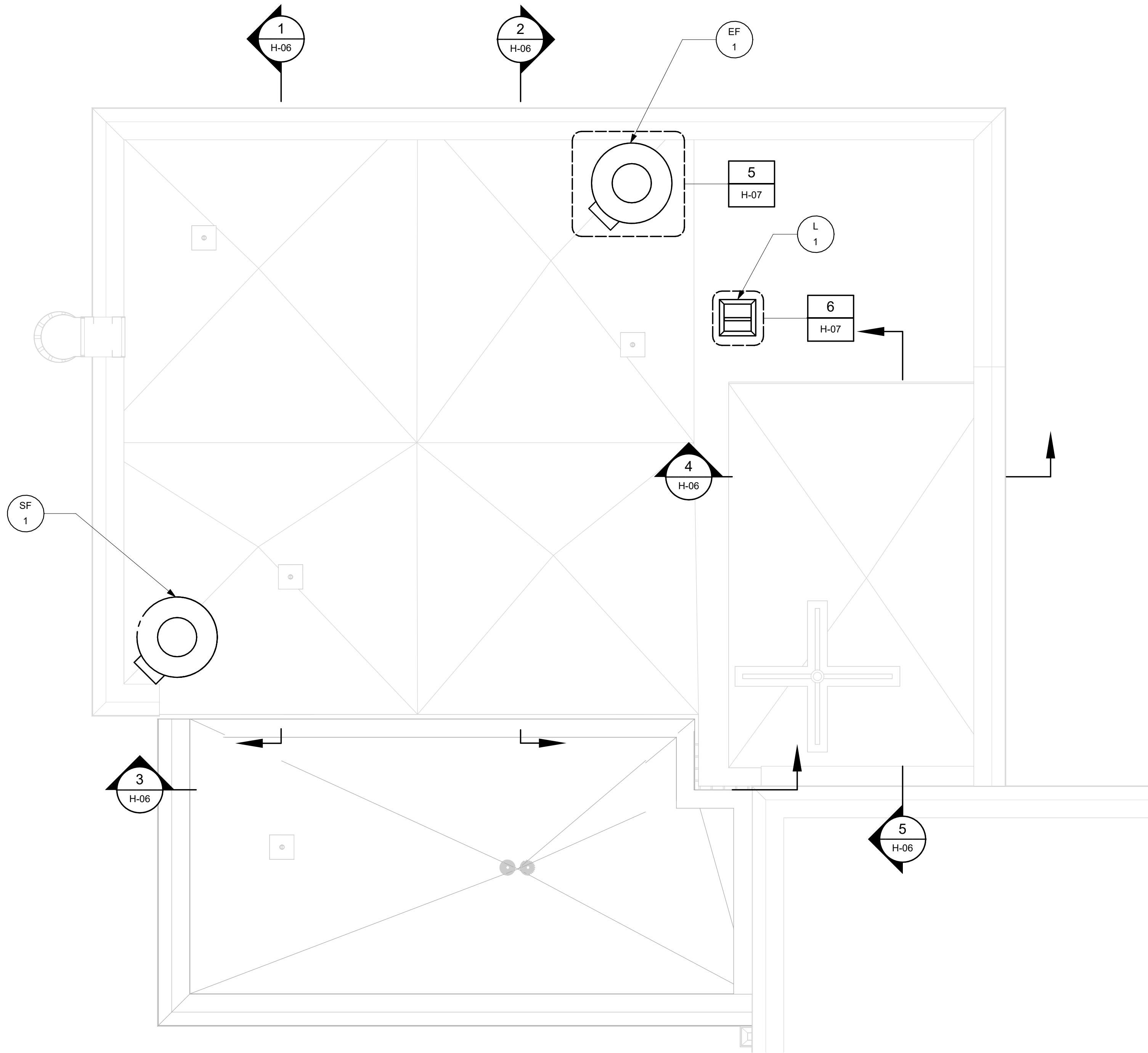
ROCKLAND COUNTY SEWER DISTRICT NO.1
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TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

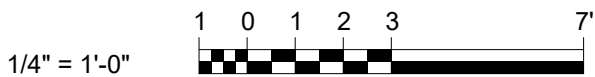
HVAC
PLAN EL 70.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	H-04

Autodesk Docs/06/06/2024_EDS and CA for RCSD Streets Rehab/00462-000-100-MSB-H.rvt
6/24/2024 7:38:20 PM



PLAN EL 88.00
1/4" = 1'-0"



REV	ISSUED FOR	DATE	BY
0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID

Hazen

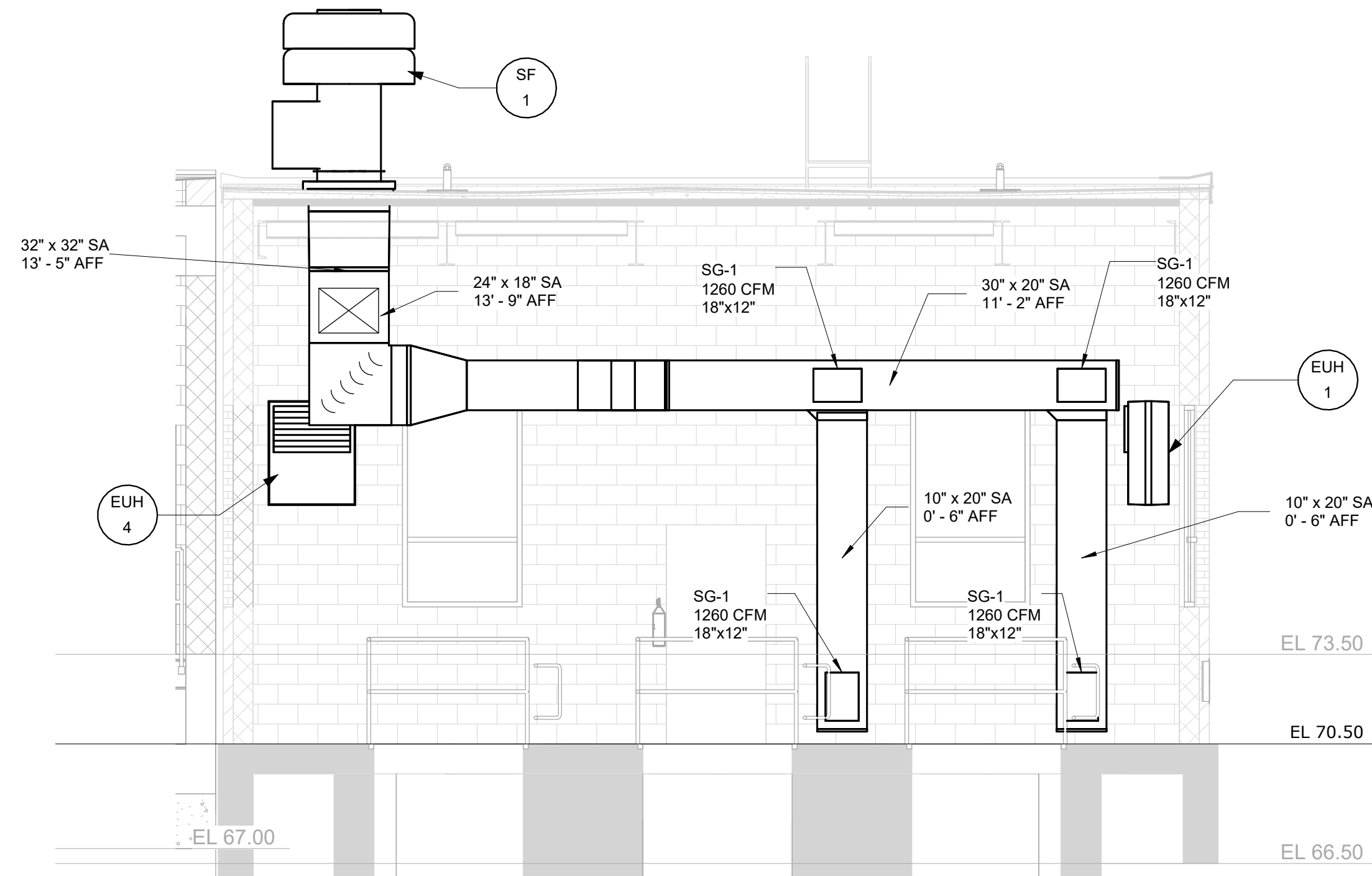
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC
PLAN EL 88.00

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	H-05

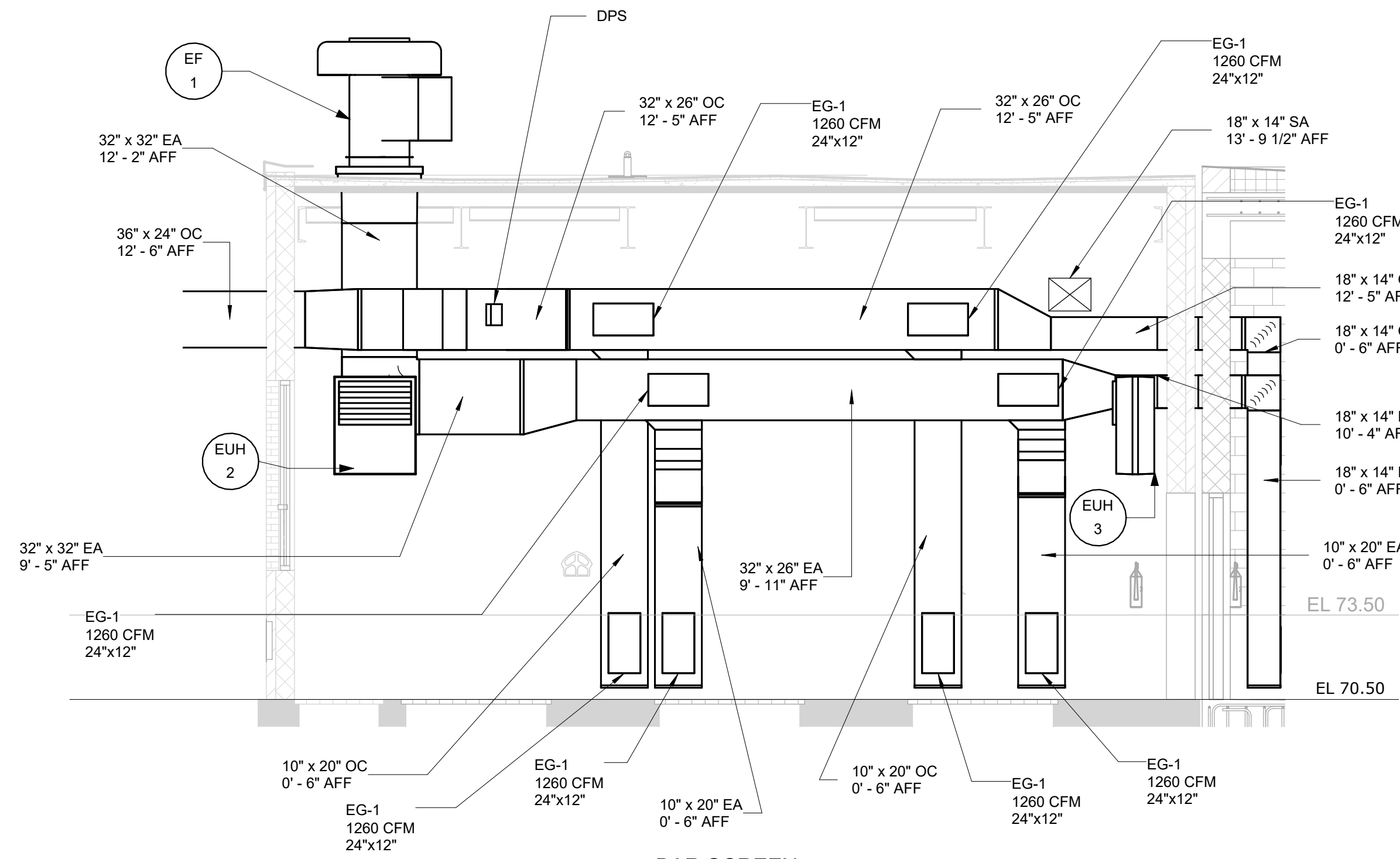


BAR SCREEN
ROOM SUPPLY

SECTION 1

1/4" = 1'-0"

H-04

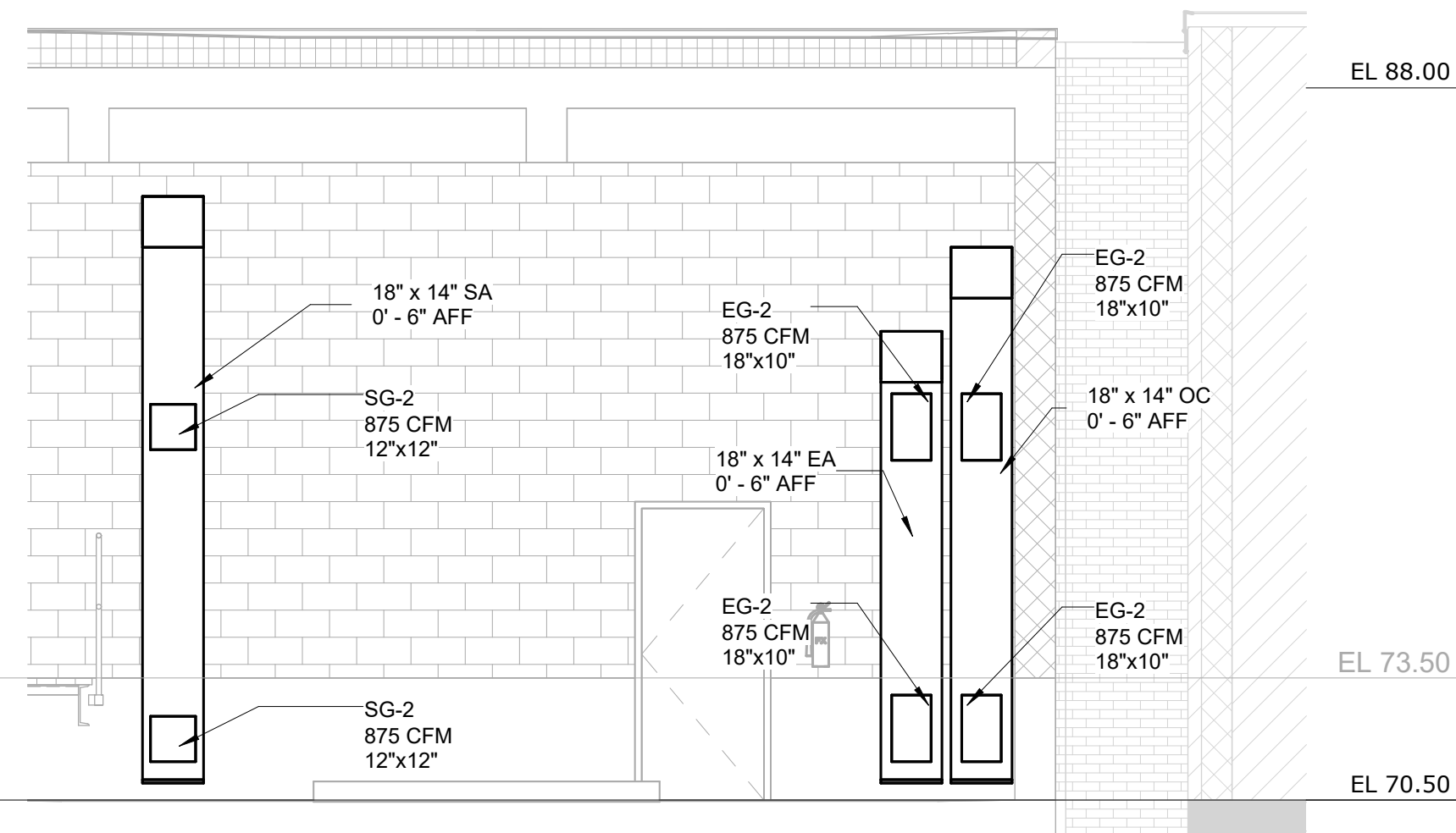


BAR SCREEN
ROOM EXHAUST

SECTION 2

1/4" = 1'-0"

H-04

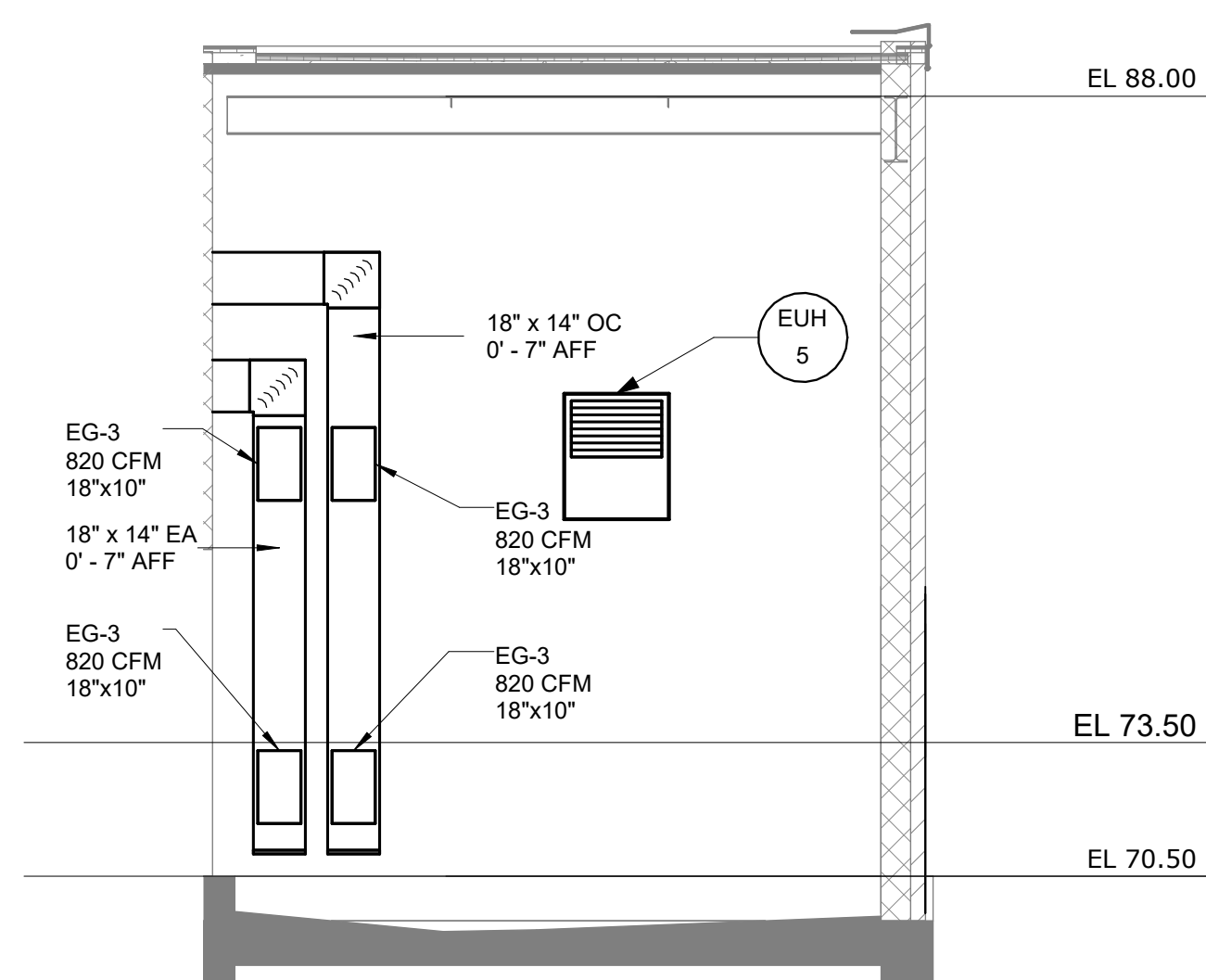


COMPACTOR
ROOM

SECTION 3

1/4" = 1'-0"

H-04

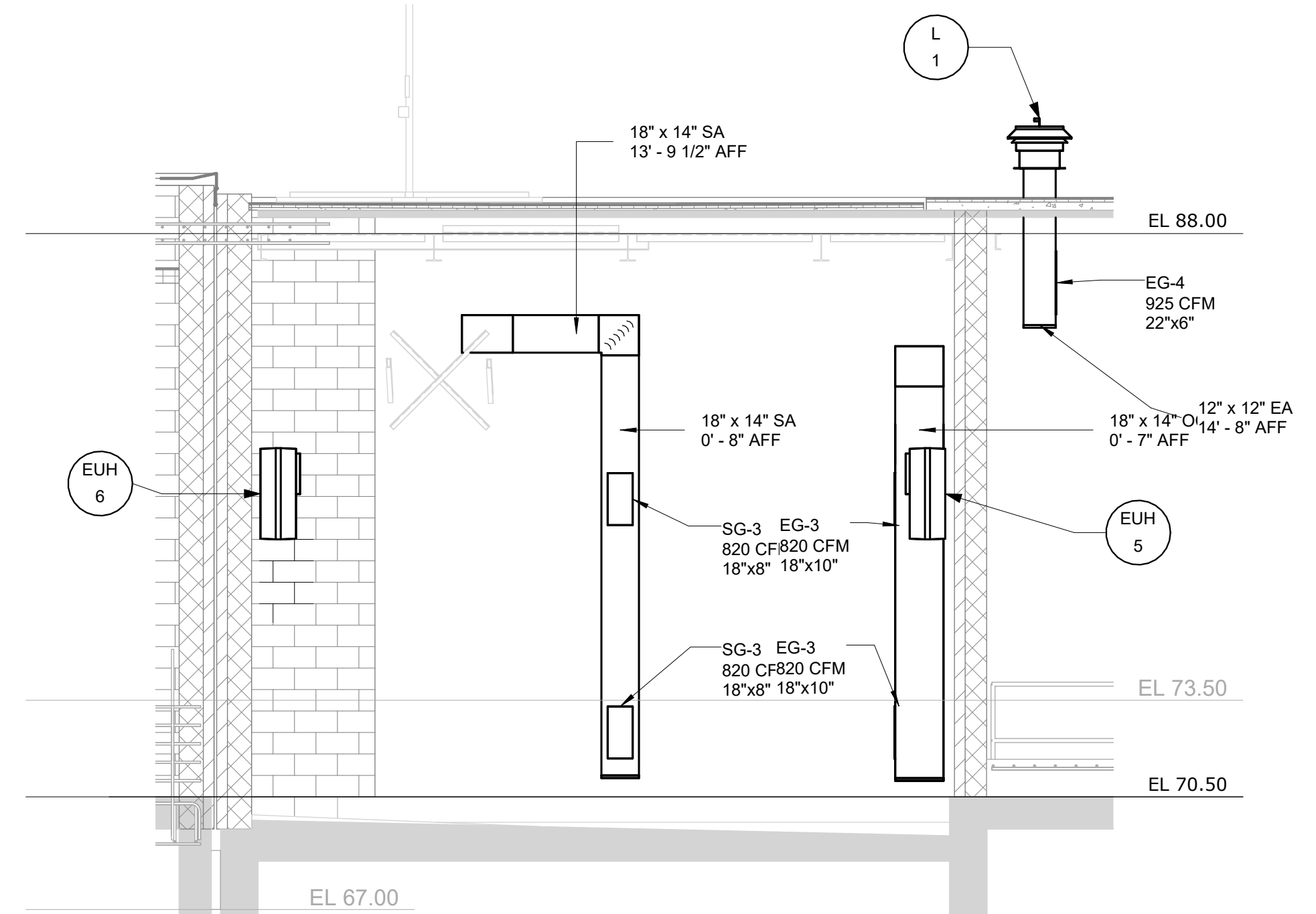


DUMPSTER
ROOM NORTH

SECTION 4

1/4" = 1'-0"

H-04



DUMPSTER
ROOM WEST

SECTION 5

1/4" = 1'-0"

H-04

1/4" = 1'-0"



EDR
a better environment



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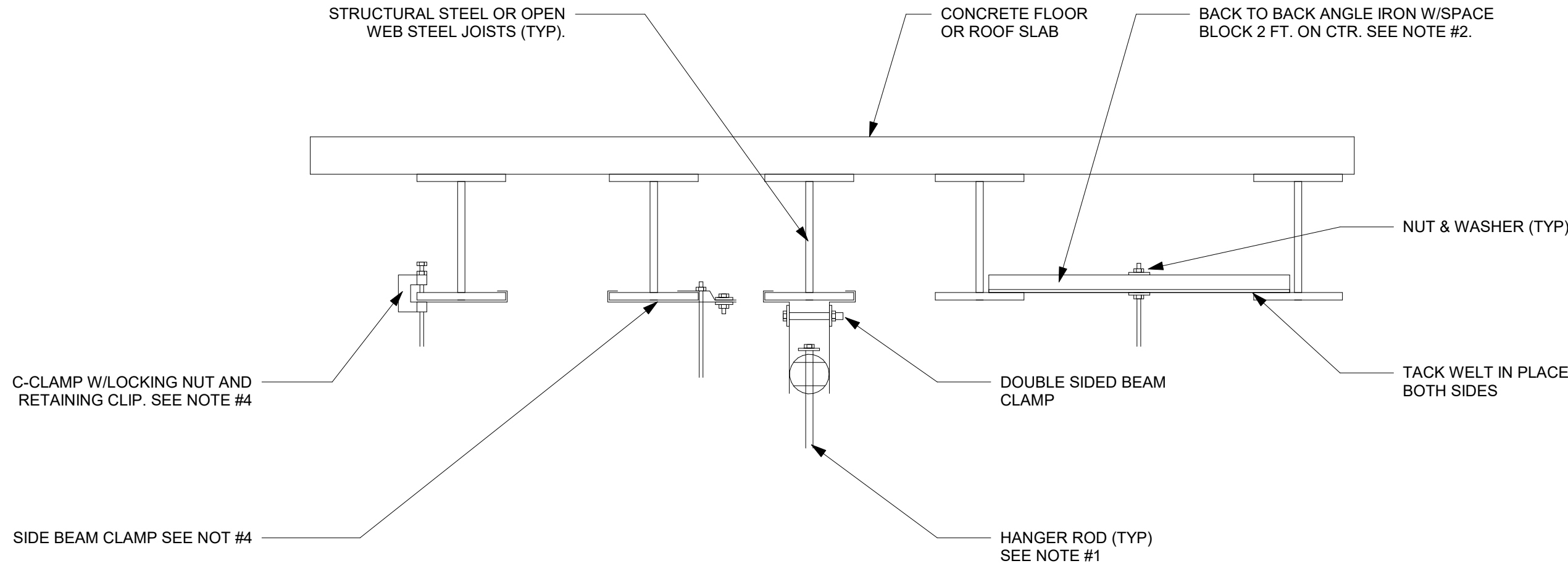
HVAC
SECTIONS

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER: H-06

REV	ISSUED FOR	DATE	PDS BY
0	BID	06/2024	PDS
1	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

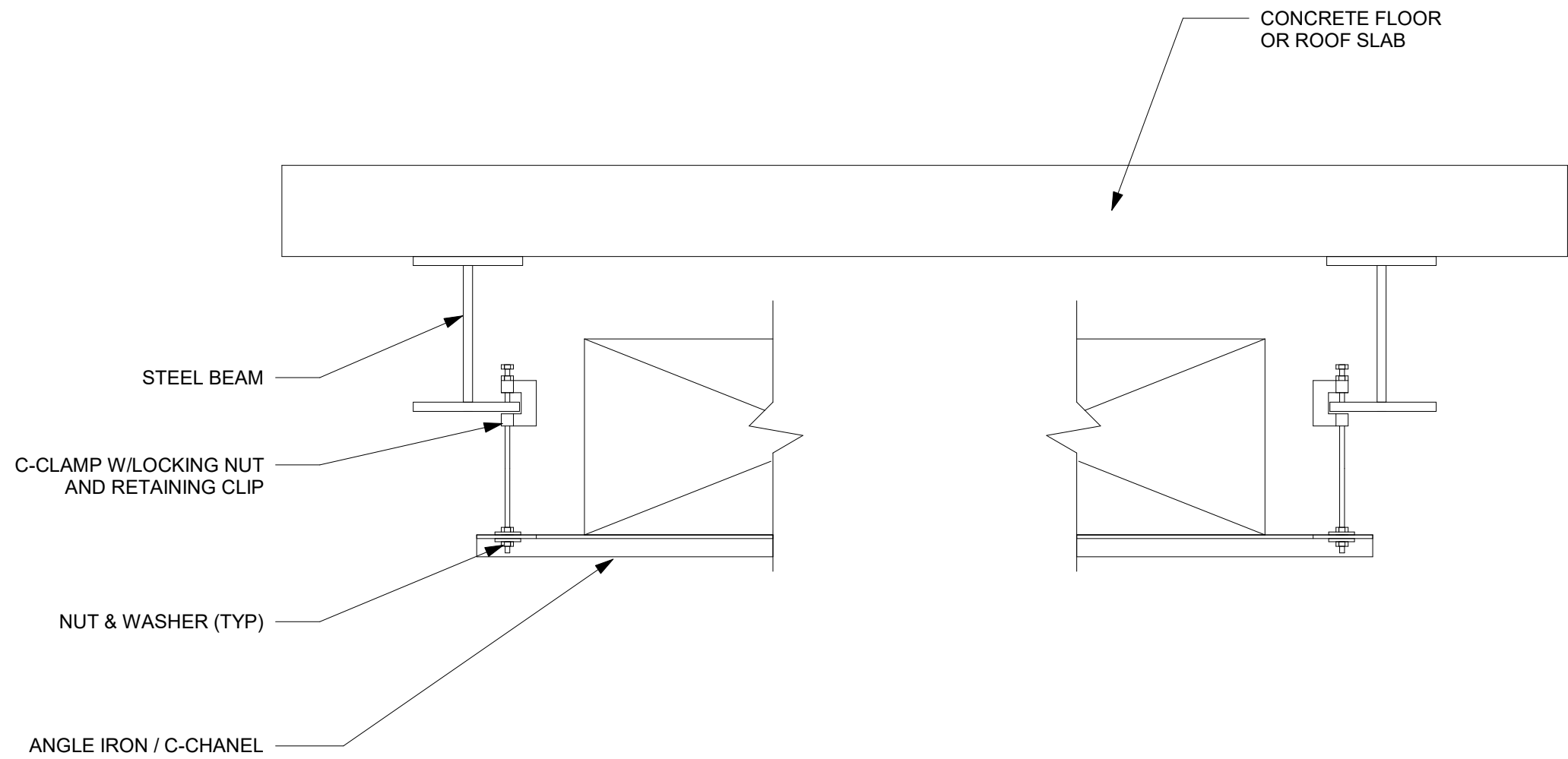
FOR BID



- NOTES:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
 2. FOR PIPES UNDER 2" US A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x2"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
 3. REPAIR OF FIRE PROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING CONSTRUCTION SHALL BE BY THE CONTRACTOR.
 4. USE OF C-CLAMPS AND SIDE BEAM CLAMPS LIMITED TO PIPING 2-1/2" AND UNDER.

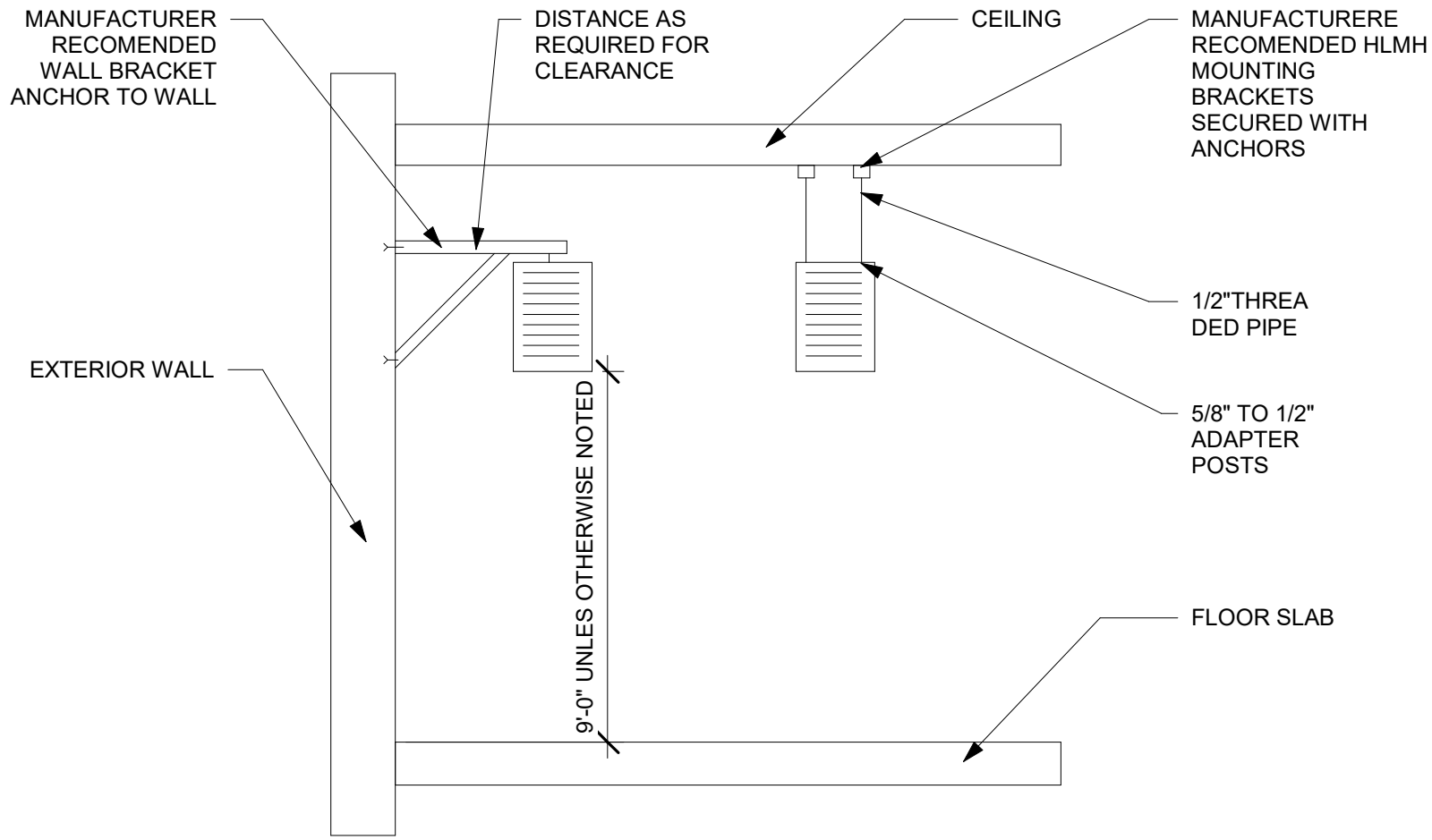
TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL

DETAIL	1
NTS	-



DUCT HANGER DETAIL

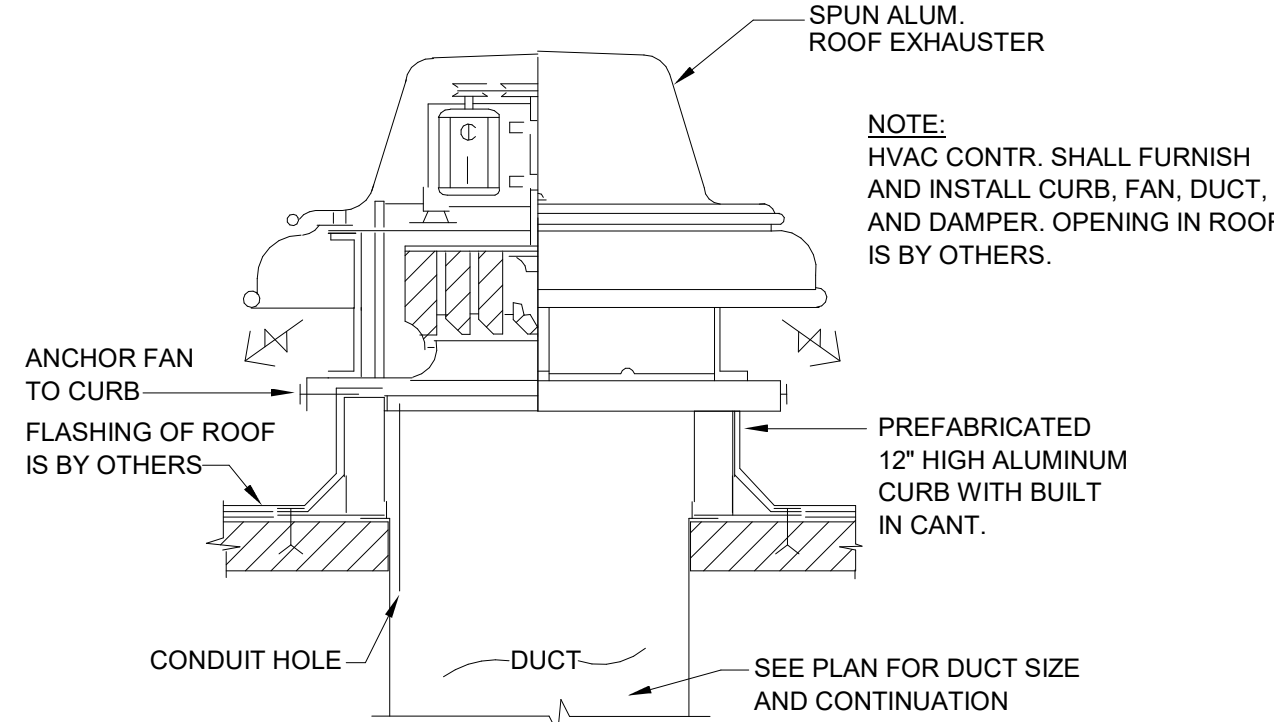
DETAIL	2
NTS	-



- NOTES:
- SUPPORT FROM WALL UNLESS OTHERWISE NOTED

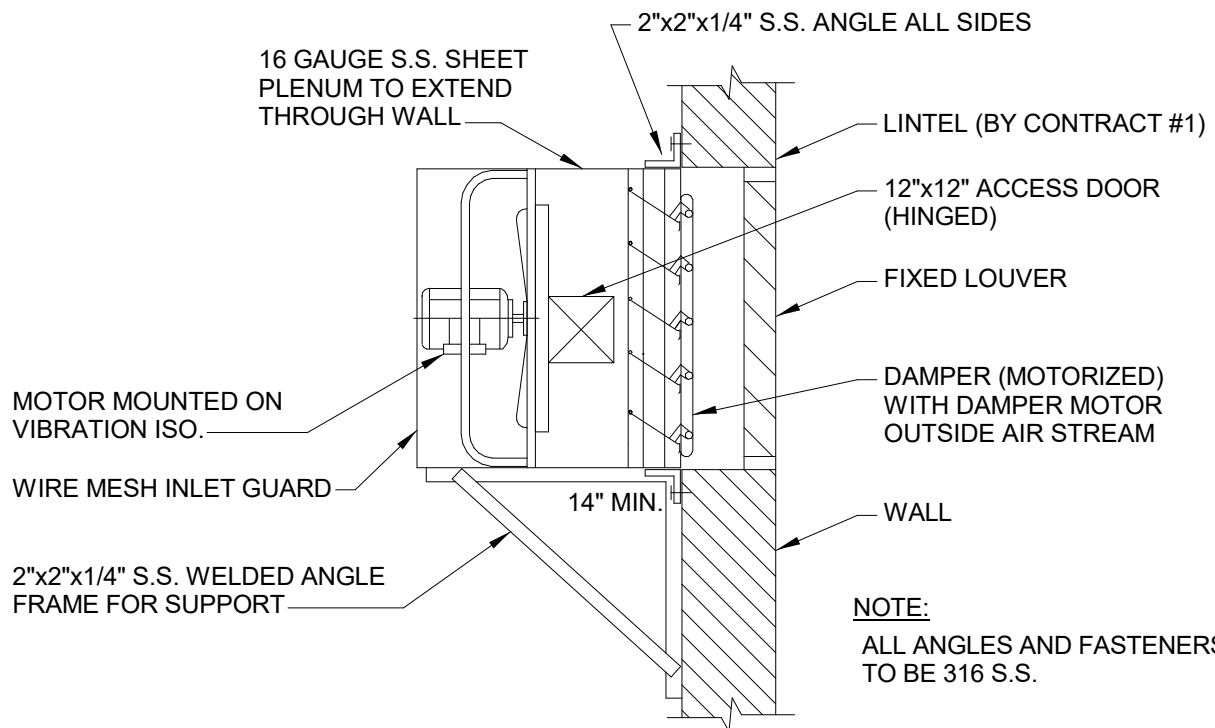
ELECTRIC UNIT HEATER MOUNTING DETAIL

DETAIL	3
NTS	H-04



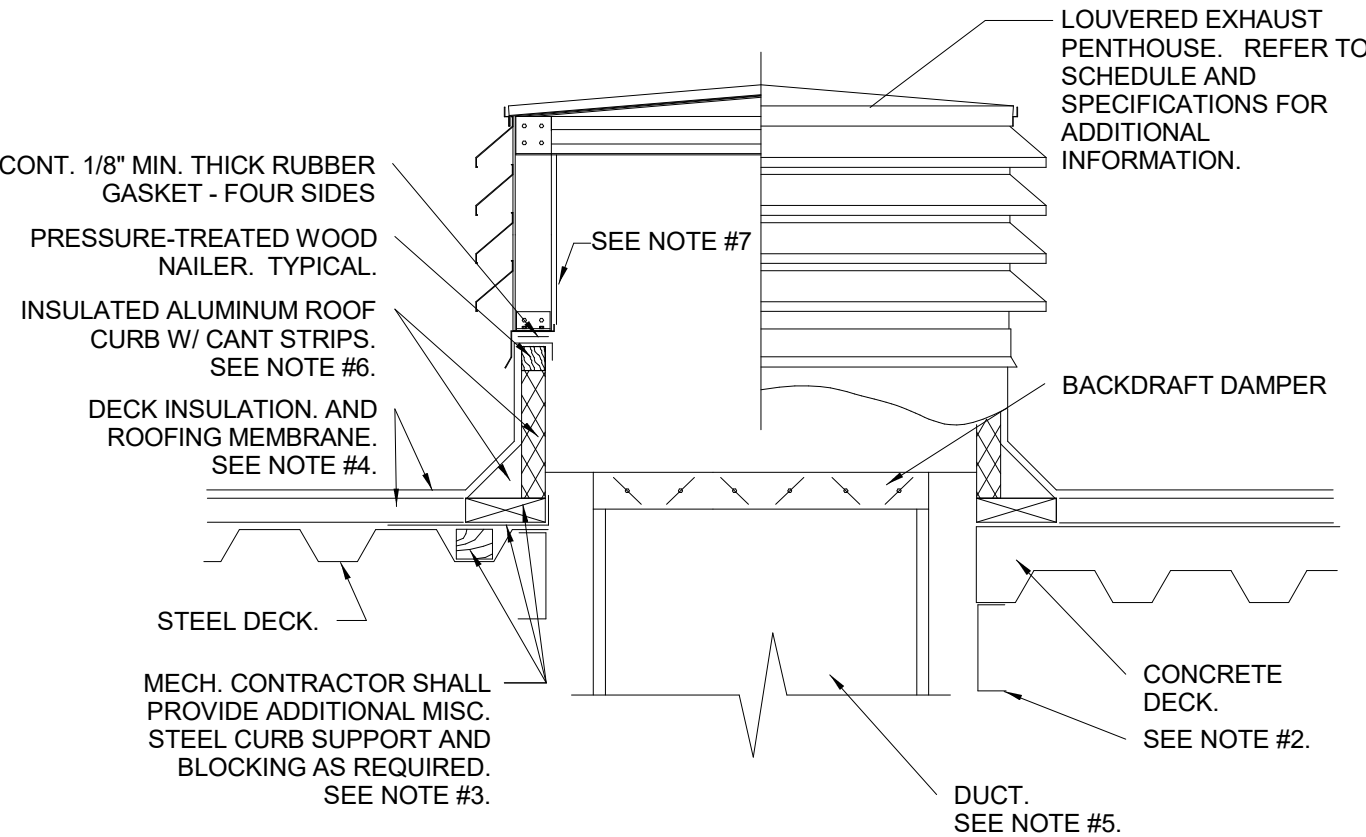
ROOF EXHAUST FAN

DETAIL	5
NTS	H-05



WALL MOUNTED FAN

DETAIL	4
NTS	H-04



- NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT ROOF CONSTRUCTION.
 2. REFER TO STRUCT. DWGS. FOR ADDITIONAL INFORMATION REGARDING ROOF OPENING FRAMING.
 3. PROVIDE THE PRESSURE-TREATED BLOCKING, UNDER THE CURB, AND RAISE THE CURB TO ACCOMMODATE THE THICKNESS OF THE ROOF INSULATION. SECURE BLOCKING TO THE ROOF STRUCTURE WITH LOAD RATED, RUSTPROOF FASTENERS.
 4. ROOFING BY GENERAL CONTRACTOR.
 5. EXHAUST DUCTWORK SHALL BE GALVANIZED SHEETMETAL PROVIDE APPROPRIATE INSULATION AS REQUIRED BY THE SPECIFICATIONS.
 6. WHEN THE PENTHOUSE IS TO BE INSTALLED ON A PITCHED ROOF, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE CURB MANUFACTURER TO PROVIDE A PITCHED CURB TO MATCH THE PITCH OF THE ROOF. THE PENTHOUSE SHALL BE INSTALLED LEVEL.
 7. 1/2"x 1/2" ALUMINUM MESH INSECT SCREEN.

LOUVERED PENTHOUSE

DETAIL	6
NTS	H-05



Hazen

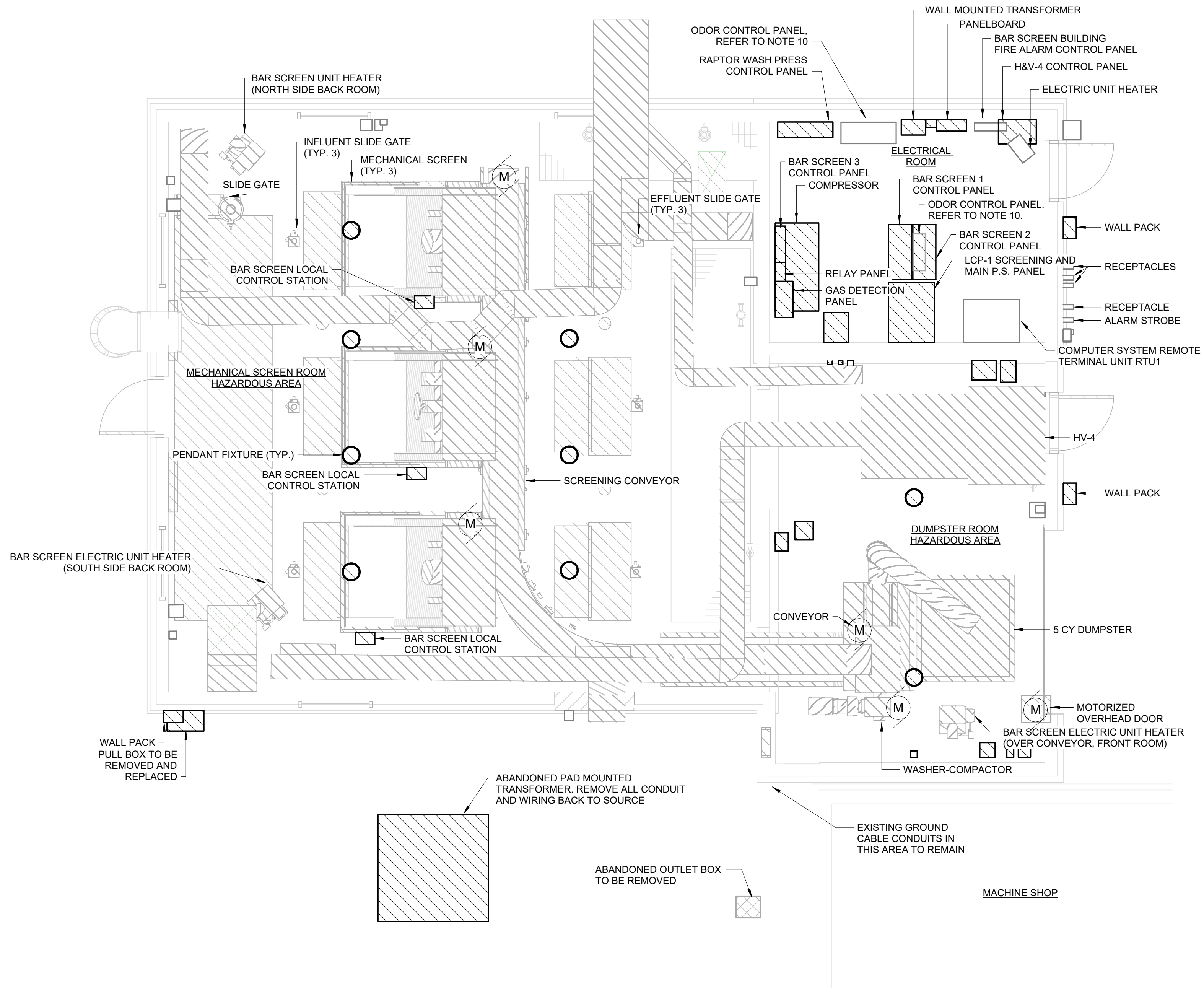
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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC
DETAILS

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	H-07



FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

NOTES:

1. REFER TO GENERAL SHEET FOR AREA CLASSIFICATION CHART.
2. CONTRACTOR TO DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN BUILDING ALONG WITH WIRING AND CONDUIT BACK TO SOURCE.
3. ALL PANELBOARD, STARTERS, DISCONNECT SWITCHES, LIGHTING FIXTURES, RECEPTACLES, PULLBOXES, JUNCTION BOXES, AND ALL WIRE AND CONDUIT ASSOCIATED WITH ALL OTHER ELECTRICAL EQUIPMENT LOCATED IN THE MECHANICAL SCREEN ROOM AND DUMPSTER ROOM ARE TO BE REMOVED, UNLESS OTHERWISE NOTED. VERIFY EQUIPMENT IN FIELD.
4. REMOVE EQUIPMENT AND ALL ASSOCIATED WIRE AND CONDUIT IN IN THE ELECTRICAL ROOM, CALLED OUT ON FLOOR PLANS.
5. SEAL ALL EXISTING CONDUIT PENETRATIONS TO BE DEMOLISHED. PATCH TO MATCH EXISTING WALL AND FLOOR CONSTRUCTION. PATCHES SHALL BE WATER TIGHT AND FIRE PROTECTED.
6. NOT ALL EQUIPMENT, DEVICES AND CONDUIT ARE SHOWN ON FLOOR PLANS. VERIFY IN FIELD AND REMOVE.
7. ALL DEVICES, CONDUIT, WIRE, RACEWAY, PULLBOXES ETC. ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL REMAIN INTACT AND PROTECTED DURING THE DEMOLITION AND CONSTRUCTION.
8. REFER TO DEMOLITION DRAWINGS OF OTHER TRADES.
9. ALL CONDUIT AND WIRE, RELATED TO ALL LIGHTING, ELECTRICAL EQUIPMENT, INSTRUMENTATION, MECHANICAL, HVAC, AND PLUMBING EQUIPMENT SHALL BE DEMOLISHED BACK TO SOURCE UNLESS OTHERWISE NOTED. VERIFY EQUIPMENT IN FIELD.
10. ODOR CONTROL PANEL IS MOUNTED ABOVE BAR SCREEN 2 CONTROL PANEL. DISCONNECT ODOR CONTROL PANEL. RELOCATE AS SHOWN ON POWER PLANS. REMOVE WIRE AND CONDUIT IN CONFLICT WITH CONSTRUCTION. EXTEND WIRE AND CONDUIT AS REQUIRED TO NEW LOCATION.



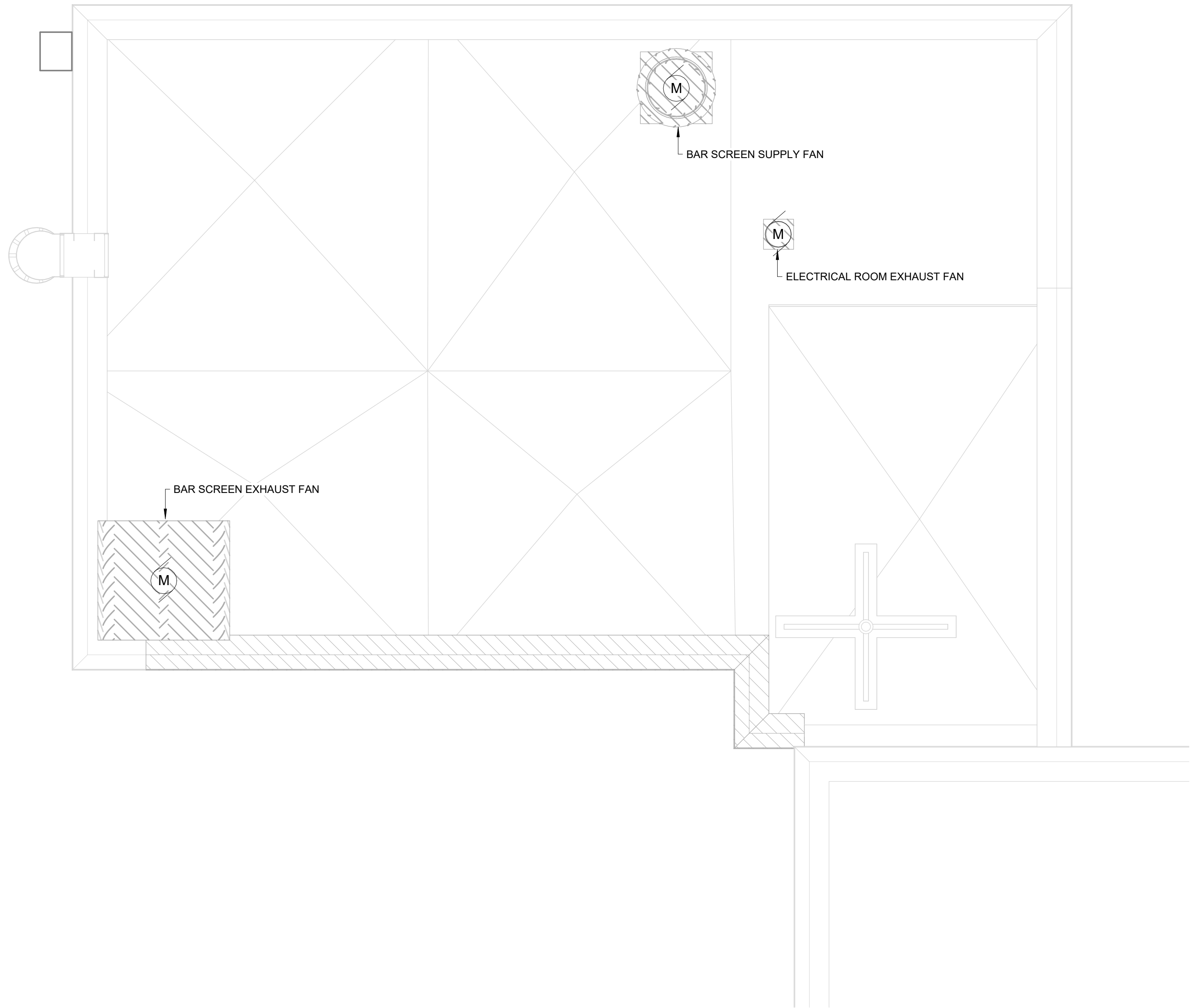
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ROCKLAND COUNTY SEWER DISTRICT NO.1
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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
FIRST FLOOR DEMOLITION PLAN

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER: DE-01



ROOF DEMOLITION PLAN
1/4" = 1'-0"

- NOTES:
1. REFER TO GENERAL SHEET FOR AREA CLASSIFICATION CHART.
 2. CONTRACTOR TO DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN BUILDING ALONG WITH WIRING AND CONDUIT BACK TO SOURCE.
 3. ALL PANELBOARD, STARTERS, DISCONNECT SWITCHES, LIGHTING FIXTURES, RECEPTACLES, PULLBOXES, JUNCTION BOXES, AND ALL OTHER ELECTRICAL EQUIPMENT IS TO BE REMOVED, UNLESS OTHERWISE NOTED. VERIFY EQUIPMENT IN FIELD.
 4. SEAL ALL EXISTING CONDUIT PENETRATIONS TO BE DEMOLISHED. PATCH TO MATCH EXISTING WALL AND FLOOR CONSTRUCTION. PATCHES SHALL BE WATER TIGHT AND FIRE PROTECTED.
 5. NOT ALL EQUIPMENT, DEVICES AND CONDUIT ARE SHOWN ON FLOOR PLANS. VERIFY IN FIELD AND REMOVE.
 6. ALL DEVICES, CONDUIT, WIRE, RACEWAY, PULLBOXES ETC. ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL REMAIN INTACT.
 7. REFER TO DEMOLITION DRAWINGS OF OTHER TRADES.
 8. ALL CONDUIT AND WIRE, RELATED TO ALL LIGHTING, ELECTRICAL EQUIPMENT, INSTRUMENTATION, MECHANICAL, HVAC, AND PLUMBING EQUIPMENT SHALL BE DEMOLISHED BACK TO SOURCE UNLESS OTHERWISE NOTED. VERIFY EQUIPMENT IN FIELD.



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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
ROOF DEMOLITION PLAN

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DE-02

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PLOT DATE: 6/24/2024 8:07 PM BY: BCASULL

ABBREVIATIONS	
A or AMP	AMPERE, AMPS
AC	ALTERNATING CURRENT
ACPH	AIR CHANGES PER HOUR
AF	AMPERE FRAME SIZE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
AR	ANGLED REFLECTOR
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C or COND	CONDUIT
C&W	CONDUIT & WIRE
CA	CABLE
CB	CIRCUIT BREAKER
CDRS	CONDUCTORS
CIRC	CIRCUIT
COR	CORROSION RESISTANT
CON ED	CON. EDISON CO.
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DS	DISCONNECT SWITCH
DFE	DESIGN FLOOD ELEVATION
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
ESTOP	EMERGENCY STOP
ETM	ELAPSED TIME METER
FLEX	FLEXIBLE
FLOA	FLOAT SWITCH
FS	FLOW SWITCH
FSW	FUSED SWITCH
FVNR	FULL-VOLTAGE NON-REVERSING
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GENSET	EMERGENCY POWER GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSE POWER
IB/OB	INBOARD/OUTBOARD
IL	INDICATING LIGHT
IS	INTRUSION SWITCH
I/O	INPUT/OUTPUT
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
JIC	JOINT INDUSTRIAL COUNCIL
KMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
LO	LOCK-OUT
LS	LIMIT SWITCH
mA	MILLIAMPS
MAG	MAGNETIC
MAX	MAXIMUM
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MSS	MOTOR STARTING SWITCH
MSH	MOTOR WINDING MOISTURE PROTECTION
Mx	MOTOR CONTACTOR AUXILIARY CONTACT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NO	NORMALLY OPEN
NP	NAMEPLATE
OH/E	OVERHEAD ELECTRIC
OH/L	OVERHEAD TELEPHONE
OL	OVERLOAD RELAY
Ø	PHASE
P	POLE
PB	PUSHBUTTON
PBx	PULL BOX
PF	PULLING FITTING
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PR	PAIR
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
R&R	REMOVE & REPLACE
RECP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
SA	SURGE ARRESTOR
SEL or SEL SW	SELECTOR SWITCH
SD	STATION CONTROL PANEL
SHLD	SHIELDED
SN	SOLID NEUTRAL
SS	STAINLESS STEEL
SSW	SAFETY SWITCH
S/S	STOP/START PUSH BUTTON
STR	STRANDED
SV	SOLENOID VALVE
SW	SWITCH
TERM	TERMINAL
TR	TIMER
TR.SW.	TRANSFER SWITCH
TSP	TWISTED SHIELDED PAIR
TSH	MOTOR WINDING THERMAL PROTECTION
TYP	TYPICAL
UG/E	UNDERGROUND ELECTRIC
UG/T	UNDERGROUND TELEPHONE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
W/	WITH
WP	WEATHER PROOF, WATER PROOF
XP	EXPLOSION PROOF
XFMR	TRANSFORMER

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE OF NEW YORK AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. CONTRACTOR MUST BE LICENSED AND CERTIFIED TO WORK IN AREAS CONTAINING ASBESTOS.
- THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL.
- THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
- LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPULINS TO CONTAIN AIRBORNE MATERIALS.
- NO SYSTEM SHALL BE SHUT DOWN WITHOUT PERMISSION OF THE FACILITIES OPERATION MGR. A MINIMUM TWO WEEK NOTICE SHALL BE GIVEN TO THE FACILITIES OPERATION MGR. WHEN SYSTEM SHUTDOWN INVOLVES A TEMPORARY DISRUPTION TO BUILDING SERVICES.
- ANY DISRUPTION IN BUILDING SERVICES SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE FACILITIES OPERATION MGR.
- ALL WORK SHALL BE COORDINATED WITH THE FACILITIES OPERATION MGR. AND ALL TRADES RELATED TO THE INSTALLATION OF THIS PROJECT. THE CONTRACTOR SHALL TURN OVER TO THE OWNER AT THE COMPLETION OF ALL WORK. THREE (3) COPIES IN BOUND FORM OF OPERATING, MAINTENANCE, AND INSTRUCTION MANUALS WHICH SHALL INCLUDE ALL EQUIPMENT BROCHURES, PIPING AND WIRING DIAGRAMS, DRAWINGS, TEMPERATURE CONTROLS, AND STARTUP AND SHUTDOWN PROCEDURES OF ALL NEWLY INSTALLED EQUIPMENT.
- THE CONTRACTOR SHALL FILE PLANS WITH GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING SAME.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL WORK SHALL BE INSPECTED BY A THIRD PARTY. CONTRACTOR SHALL PAY ALL ASSOCIATED FEES.
- THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMAN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS.
- ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER OR OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR OWNER OR FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
- ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
- PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER.
- THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
- PROVIDE TERMINAL STRIPS IN ALL JUNCTION BOXES WHERE SPLICES ARE MADE.
- ALL WORK SHOWN ON ALL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
- ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
- ALL DOWNSTREAM DEVICES WHICH BECOME DISCONNECTED DURING THIS CONSTRUCTIONS SHALL BE RECONNECTED AT NO COST TO THE OWNER.
- TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING REASONABLE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK AND OTHER PROPERTY.
- OWNER RESERVES THE RIGHT TO MOVE EQUIPMENT LOCATION 10'-0" FROM WHERE SHOWN ON CONTRACT DRAWINGS WITH NO ADDITIONAL COST.

GENERAL DEMOLITION NOTES:

- REMOVE ALL ELECTRICAL EQUIPMENT RELATED TO PROCESS MECHANICAL AND HVAC EQUIPMENT TO BE REMOVED. EX: CONTROL STATIONS, INSTRUMENTATION, LOCAL DISCONNECTS, ETC. UNLESS OTHERWISE NOTED ON DEMOLITION DRAWINGS.
- REMOVE ALL CONDUIT AND WIRE FOR ALL ELECTRICAL EQUIPMENT RELATED TO PROCESS MECHANICAL EQUIPMENT TO BE REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED ON DEMOLITION DRAWINGS.
- IF POWER SOURCE (POWER PANEL, MCC, ETC) FOR EQUIPMENT REMOVED IS TO REMAIN, RE-LABEL AS "SPARE" OR NEW CIRCUIT DESIGNATION. UNLESS OTHERWISE NOTED ON DEMOLITION DRAWINGS.
- SEE MECHANICAL PLANS FOR ADDITIONAL EQUIPMENT TO BE REMOVED ON DEMOLITION DRAWINGS.
- REMOVE ALL EXISTING LIGHTING, CONDUIT, WIRING, CONTROLS, ETC. UNLESS OTHERWISE NOTED ON DEMOLITION DRAWINGS.

GENERAL GROUNDING NOTES:

- THE GROUNDING SYSTEM IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION OF CABLE GROUND RODS AND CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- ALL BURIED GROUNDING CABLE CONNECTIONS SHALL BE CADWELDED OR THERMOWELDED. THE WELDED CONNECTIONS SHALL BE LEFT EXPOSED FOR INSPECTION BY ENGINEER PRIOR TO BACKFILLING.
- WHERE EXPOSED TO MECHANICAL INJURY, THE GROUNDING CONDUCTOR SHALL BE SUITABLY PROTECTED BY PIPE OR OTHER MECHANICAL PROTECTION. EACH END OF PROTECTING CONDUIT (IF METALLIC) SHOULD BE GROUNDED TO THE BARE CABLE.
- ALL EXPOSED CABLE LUGS AND CONNECTORS SHALL BE OF THE COMPRESSION TYPE UNLESS OTHERWISE NOTED.
- STEEL MUST BE CLEANED THOROUGHLY, AND CABLE MUST BE COMPLETELY DRY BEFORE MAKING WELD CONNECTIONS.
- THE GROUNDING SYSTEM SHALL BE CONNECTED TO A METALLIC WATERLINE (WHERE AVAILABLE) WITH A MINIMUM OF 10 FEET LENGTH UNDERGROUND AND SHALL BE CONNECTED TO THE GROUNDING ELECTRODES.
- CADWELD ALL DUCTBANK GROUNDS TO SITE GROUND GRIDS.

GENERAL LIGHTING NOTES:

- INSTALL LIGHTING LUMINAIRES IN LOCATIONS AS SHOWN OR AS NOTED, AS CLOSE AS POSSIBLE TO THESE LOCATIONS WHEN ADJUSTMENTS TO AVOID INTERFERENCES ARE REQUIRED. LUMINAIRES SHALL BE INSTALLED LEVEL AND PLUMB.
- CONNECT LUMINAIRES ON CIRCUITS AS SHOWN ON DRAWINGS AND ON PANELBOARD SCHEDULES. LIGHTING CIRCUIT CONDUIT AND CONDUCTORS SHALL BE PER NEC OR AS NOTED ON THE DRAWINGS.
- CLEAN EACH LUMINAIRE AT TIME OF SUBSTANTIAL COMPLETION.
- OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR PROPER CONNECTIONS AND OPERATION, AND REPAIR ALL IMPROPER CONNECTIONS.
- LIGHT SWITCHES SHALL BE AS SPECIFIED IN SECTION 260900, AND SUITABLE FOR THE CLASSIFICATION OF THE AREA.
- SUBMIT SHOP DRAWINGS FOR ALL LUMINAIRES UNDER THIS CONTRACT IN ACCORDANCE WITH SECTION 013300 OF THE CONTRACT DOCUMENTS. PROVIDE COMPLETE INFORMATION INCLUDING LUMINAIRE ACCESSORIES, INSTALLATION INSTRUCTIONS, OPERATIONS AND MAINTENANCE INFORMATION, AND LIST OF LUMINAIRE TYPES AND MANUFACTURER TO BE USED FOR EACH.
- PROVIDE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SECTION 01XXXX AND 260500 OF THE CONTRACT DOCUMENTS. RECORD DOCUMENTS SHALL ACCURATELY SHOW FIXTURE LOCATIONS OF EACH LUMINAIRE INCLUDING THE CONNECTIONS. AND FOR EACH TYPE OF LUMINAIRE, PROVIDE MANUFACTURERS NAME, CATALOG NUMBER, VOLTAGE, LAMP TYPE AND POWER REQUIREMENTS.

GENERAL CLASSIFICATION NOTES:

- REFER TO GENERAL SHEET FOR AREA CLASSIFICATIONS.
- EQUIPMENT ENCLOSURES AND INSTALLATION IN CLASS 1, DIV. 2 AREAS SHALL CONFORM TO CLASS 1, DIV. 1 REQUIREMENTS.
- PROVIDE SEAL OFFS FOR ANY CONDUIT THAT PASSES OR ENTERS A CLASS 1, DIV. 1 GROUP D CLASSIFIED AREA OR CLASS 1, DIV. 2 GROUP D CLASSIFIED AREA.
- PROVIDE EQUIPMENT ENCLOSURE RATINGS SUITABLE FOR THEIR CLASSIFICATION, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL USE NON-SPARKING OR INTRINSICALLY SAFE TOOLS IN CLASS 1, DIV. 1, AND CLASS 1, DIV 2 AREAS.

SYMBOLS:

	G - GREEN A - AMBER INDICATING LIGHT *-COLOR
	R - RED W - WHITE PUSH-TO-TEST INDICATING LIGHT
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	TERMINAL STRIP CONNECTION
	CURRENT LIMITING FUSE
	SWITCH WITH CURRENT-LIMITING FUSE
	MOLDED-CASE CIRCUIT BREAKER
	CONTINUOUS RATING MOTOR CIRCUIT PROTECTOR TRIP RANGE SETTING BASED ON ACTUAL MOTOR FULL LOAD AMPS
	CONTRACTOR TYPE AND NEMA SIZE AS REQUIRED FOR MOTOR FULL LOAD AND CHARACTERISTICS
	OVERLOAD HEATERS OR RELAY
	SCR: SILICON CONTROLLED RECTIFIERS
	MOMENTARY OPEN PUSHBUTTON (NORMALLY OPEN)
	MOMENTARY CLOSED PUSHBUTTON (NORMALLY CLOSED)
	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH
	NORMALLY OPEN
	NORMALLY CLOSED
	NORMALLY OPEN
	NORMALLY CLOSED
	TEMPERATURE SWITCH
	FLOAT SWITCH
	FLOW SWITCH
	CONTROL RELAY
	MOTOR STARTER CONTACTOR COIL
	ELAPSED TIME METER
	NAME PLATE
	JUNCTION BOX
	DISCONNECT SWITCH
	THERMOSTAT
	SQUIRREL CAGE INDUCTION MOTOR HP, VARIES
	MOTOR STARTER
	AUTOMATIC/MANUAL TRANSFER SWITCH. RATED AS INDICATED.

SYMBOLS:

	EXISTING EQUIPMENT, DEVICE, WIRING, ETC.
	TO BE PROVIDED UNDER THIS CONTRACT
	ITEM TO BE DEMOLISHED
	CIRCUIT HOMERUN (120V) TO PANELBOARD
	CIRCUIT HOMERUN (208V, SINGLE PHASE) TO PANELBOARD
	CIRCUIT HOMERUN (208V, THREE PHASE) TO PANELBOARD
	CIRCUIT HOMERUN (480V, THREE PHASE) TO PANELBOARD
	ELECTRIC MANHOLE
	UTILITY POLE
	GENERATOR
	FLOW ELEMENT
	LEVEL FLOAT
	LEVEL ELEMENT
	INTRINSICALLY SAFE RELAY
	DIFFERENTIAL PRESSURE SENSOR
	MOUNTING STAND
	FLEXIBLE CONDUIT
	WIRES CONNECTED
	WIRES NOT CONNECTED
	SINGLE POLE SWITCH (F) PILOT LIGHT (3) THREE-WAY
	MOTOR STARTING SWITCH WITH OVERLOAD PROTECTION
	MANUAL MOTOR STARTER
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE, TYPE AS NOTED: CR= CORROSION RESISTANT WP= WEATHER PROOF
	SEALOFF

LUMINAIRE SYMBOLS

	CEILING OR PENDANT MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED GREEN, RED OR YELLOW INDICATING LIGHT

SECURITY SYMBOLS

	INTRUSION SWITCH
--	------------------

FIRE ALARM SYMBOLS

	SMOKE DETECTOR
	HEAT DETECTOR

- CAST ALUMINUM LED FIXTURE, NOMINALLY 4-FEET LONG.
- PENDANT MOUNTED: 3/8" THREADED STAINLESS STEEL ROD.
- SUITABLE FOR CLASS 1, DIV. 1, GROUP D LOCATIONS.
- LED PERFORMANCE PACKAGE: 9,580 NOMINAL LUMENS
- VOLTAGE: MULTIVOLTAGE (120V-277V)
- COLOR TEMPERATURE: 4000°K CCT
- OPTICS: T8M OPTIC
- LENS: DIFFUSED GLASS LENS
- PROVIDE AND INSTALL HEXEM, FIXTURES WITH INTEGRAL EMERGENCY BATTERIES, ONLY ON LUMINAIRES WITH "EM" ON PLANS. FOR HEXSEM FIXTURES, PROVIDE TYPE V60 OPTIC.
- WARRANTY: 5 YEAR LIMITED WARRANTY

MANUFACTURERS:
HOLOPHANE - HEXYS EXPLOSION PROOF LED LINEAR OR APPROVED EQUAL
HOLOPHANE - HEXSEM EXPLOSION PROOF LED LINEAR OR APPROVED EQUAL

FIXTURE 'A' SPECIFICATION

NOT TO SCALE

- LOW WATTAGE, LED.
- WALL MOUNTED, CAST ALUMINUM BACK PLATE.
- DARK BRONZE BAKED POLYESTER POWDER FINISH.
- ONE PIECE, POLYCARBONATE FRONT HOUSING WITH CLEAR, U.V. STABILIZED, PRISMATIC REFRACTOR.
- POLISHED ALUMINUM REFLECTOR.
- SUITABLE FOR OUTDOOR APPLICATION.
- 19 WATT LED, 2,124 LUMENS
- INTEGRAL DRIVER, MULTI-VOLT, PHOTOCCELL

MANUFACTURERS:
LITHONIA: TWS LED SERIES OR APPROVED EQUAL

LUMINAIRE 'B' SPECIFICATION

NOT TO SCALE

- LIGHT SOURCE: EXIT SIGN.
- MOUNTING: WALL/PENDANT
- VOLTAGE: 120V
- SUITABLE FOR USE IN A CLASS 1, DIV. 1, GROUP D HAZARDOUS AREA.
- EMERGENCY BATTERY BACK-UP INTEGRAL TO SIGN
- OPTIONS: EMERGENCY BATTERY BACKUP, BATTERY BACK-UP SELF-DIAGNOSTIC FEATURE

MANUFACTURER:
MULE LIGHTING, XPEx LED SERIES EXPLOSION PROOF EDGE LIT LED EXIT SIGN OR APPROVED EQUAL

EXIT SIGN SPECIFICATION

NOT TO SCALE

THE ABBREVIATIONS AND SYMBOLS LISTED HEREIN ARE STANDARDS OF THIS OFFICE AND APPLY TO A VARIETY OF PROJECTS. ONLY A PORTION OF THEM WILL NECESSARILY APPLY TO ANY GIVEN PROJECT.

SEE THE LISTINGS IN OTHER SECTIONS OF THIS DOCUMENT FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	J. DULAK
				DRAWN BY:	B. LADA
				CHECKED BY:	G. LYNCH
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

FOR BID



Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11TH FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
LEGENDS AND NOTES

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	

E-02

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- NOTES:
1. REFER TO AREA CLASSIFICATION CHART.
 2. PROVIDE SEAL-OFFS FOR ANY CONDUIT RUN THAT PASSES OR ENTERS A CLASS 1, DIV. 1 AND DIV. 2 GROUP D CLASSIFIED AREA.
 3. PROVIDE EQUIPMENT ENCLOSURE RATINGS SUITABLE FOR THEIR AREA CLASSIFICATION.

SITE PLAN
SCALE 1" = 30'



				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	J. DULAK
				DRAWN BY:	B. LADA
				CHECKED BY:	G. LYNCH
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY		



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498 SEVENTH AVENUE, 11TH FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

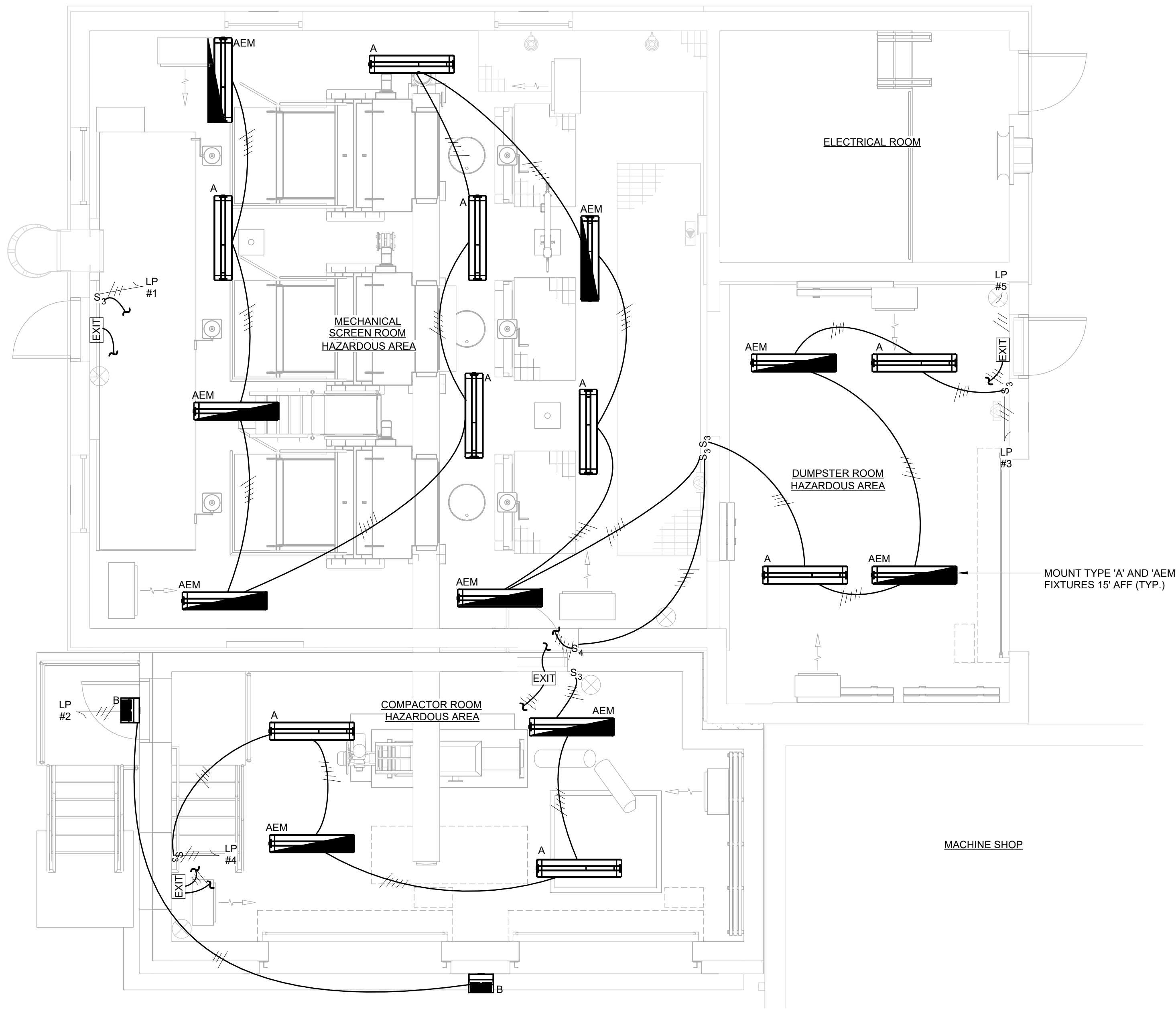
ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
SITE PLAN

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	E-02



- NOTES:
1. REFER TO GENERAL SHEET FOR AREA CLASSIFICATION CHART.



FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"



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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
FIRST FLOOR LIGHTING PLAN

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER: E-03

REV	ISSUED FOR	DATE	BY
0	BID	06/2024	PDS

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. DULAK
DRAWN BY:	W. MORGAN
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID

1. REFER TO GENERAL SHEET FOR AREA CLASSIFICATION CHART.


$$1/4'' = 1'-0''$$


FOR BID

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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL FIRST FLOOR POWER PLAN

DATE: JUNE 2024

HAZEN NO.: 90462-000

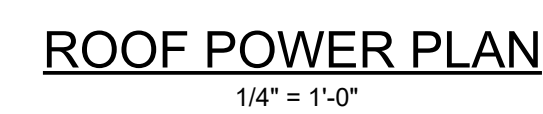
CONT NO.: RFB-RC-SWR-2023-06

DRAWING
NUMBER:

E-04

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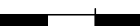
1. REFER TO GENERAL SHEET FOR AREA CLASSIFICATION CHART.



ROCKLAND COUNTY SEWER DISTRICT NO.1 ORANGEBURG, NEW YORK
ORANGEBURG WASTEWATER TREATMENT PLANT SCREENING IMPROVEMENTS PROJECT

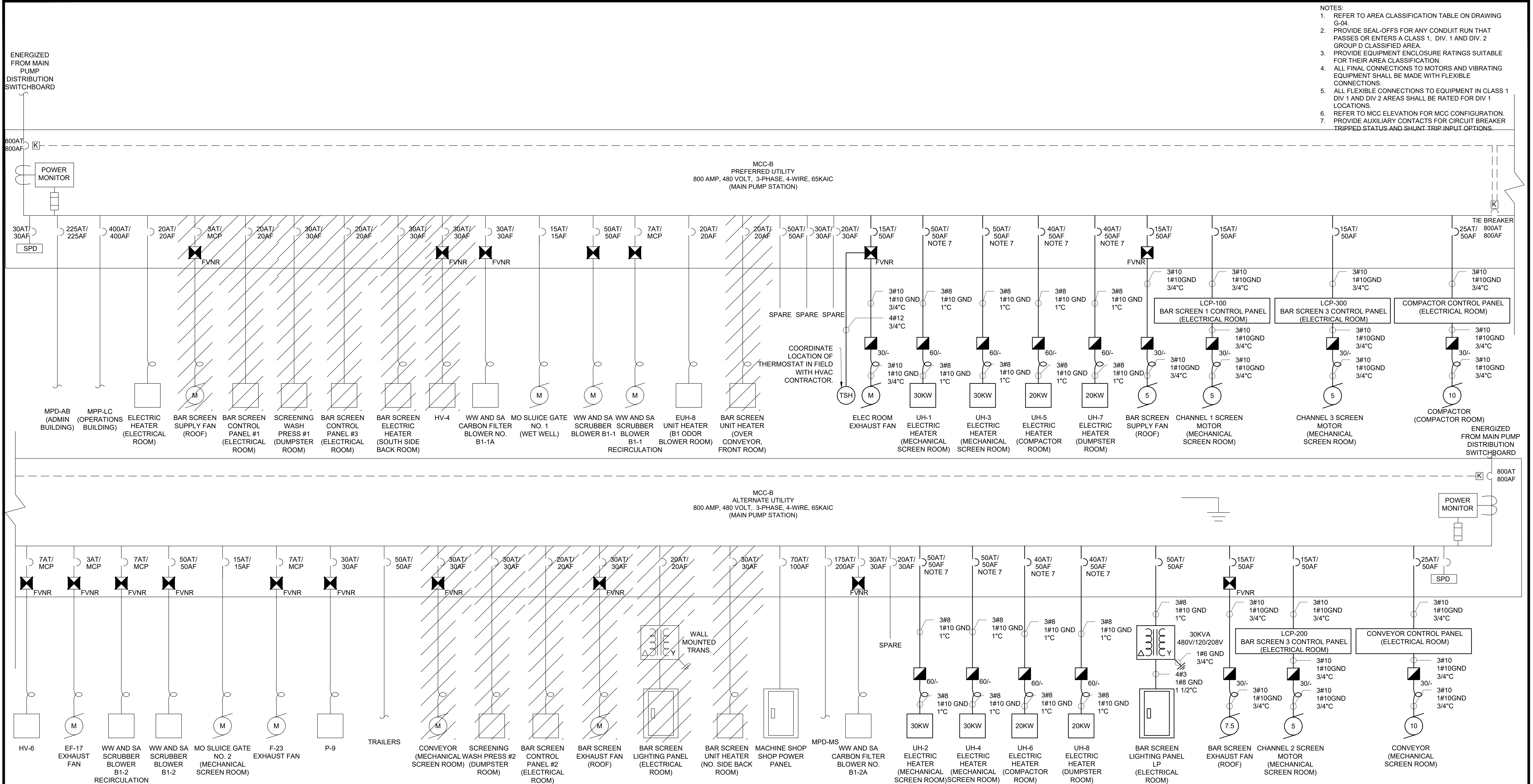
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HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	E-05

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REV	ISSUED FOR	DATE	BY	

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. DULAK
DRAWN BY:	W. MORGAN
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">0</div> <div style="margin-right: 10px;">1/2"</div> <div style="margin-right: 10px;">1</div>  </div>

FOR BID

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- NOTES:
1. REFER TO AREA CLASSIFICATION TABLE ON DRAWING G-04.
 2. PROVIDE SEAL-OFFS FOR ANY CONDUIT RUN THAT PASSES OR ENTERS A CLASS 1, DIV. 1 AND DIV. 2 GROUP D CLASSIFIED AREA.
 3. PROVIDE EQUIPMENT ENCLOSURE RATINGS SUITABLE FOR THEIR AREA CLASSIFICATION.
 4. ALL FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
 5. ALL FLEXIBLE CONNECTIONS TO EQUIPMENT IN CLASS 1 DIV 1 AND DIV 2 AREAS SHALL BE RATED FOR DIV 1 LOCATIONS.
 6. REFER TO MCC ELEVATION FOR MCC CONFIGURATION.
 7. PROVIDE AUXILIARY CONTACTS FOR CIRCUIT BREAKER TRIPPED STATUS AND SHUNT TRIP INPUT OPTIONS.

ONE LINE DIAGRAM
N.T.S.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	J. DULAK
				DRAWN BY:	B. LADA
				CHECKED BY:	G. LYNCH
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY		

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NEW YORK, NEW YORK 10018

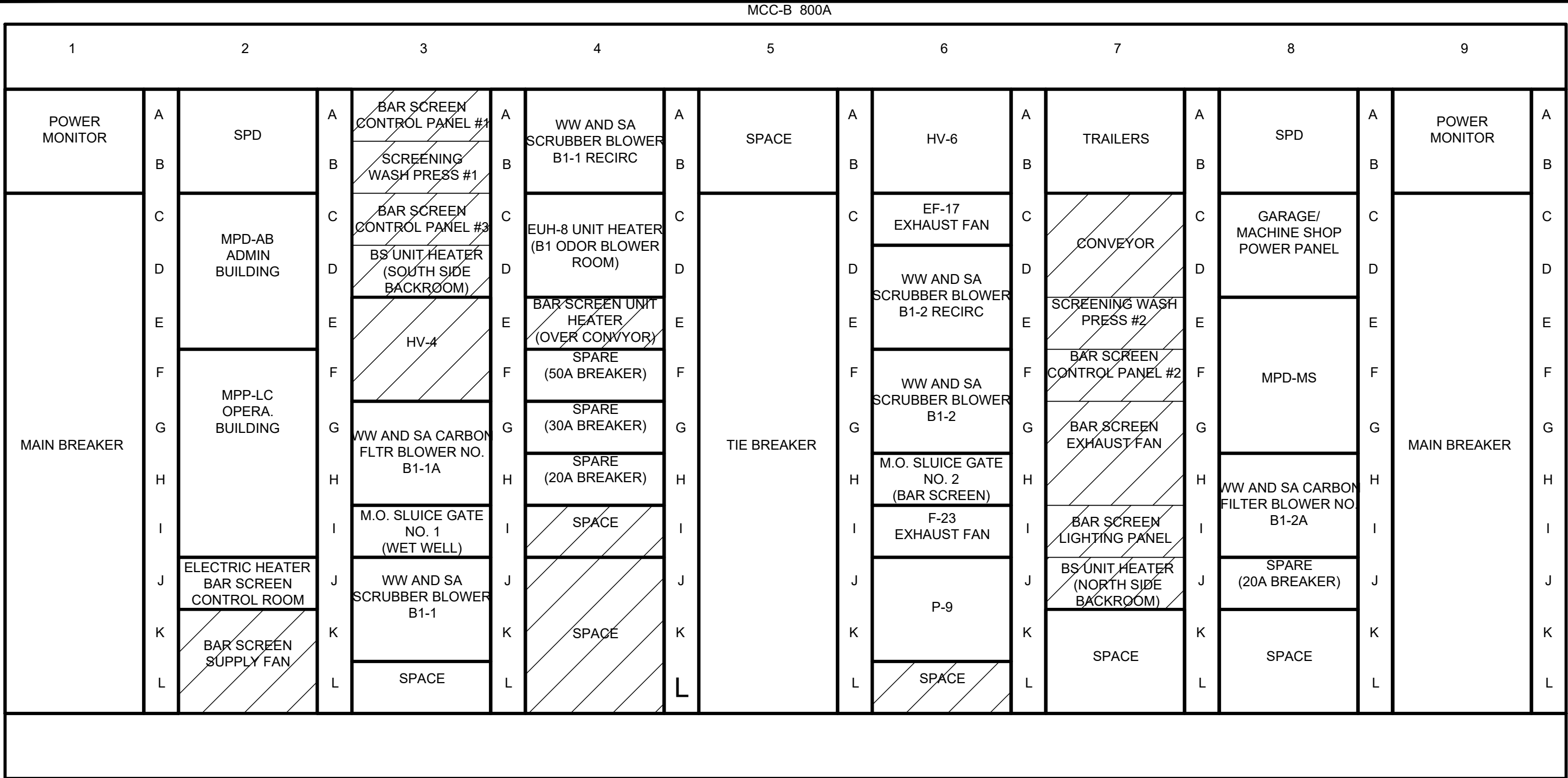
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
SINGLE LINE DIAGRAM

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER:
E-06

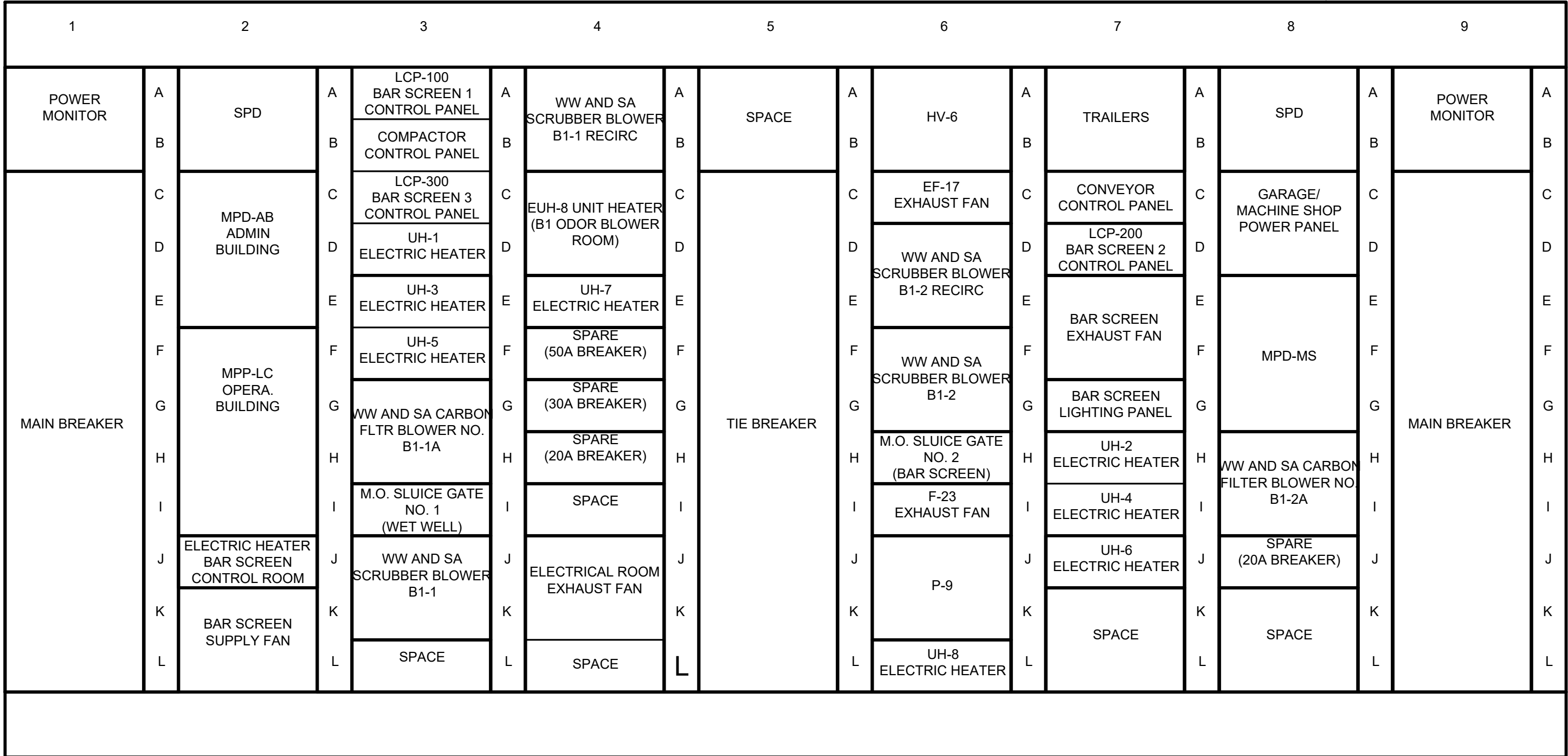
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MCC-B DEMOLITION ELEVATION

NO SCALE

- MCC-B 800A
- MCC-B PHASING NOTES:
- CONTRACTOR SHALL PROVIDE OWN WRITTEN PHASING PLAN FOR REVIEW BY OWNER AND ENGINEER PRIOR TO THE START OF ANY WORK. PROVIDE AT LEAST 2 WEEKS NOTICE.
 - ALL PHASING AND TEMPORARY ELECTRICAL FACILITIES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AS REQUIRED.



MCC-B ELEVATION

NO SCALE

- NOTES:
- PROVIDE RETROFILL BUCKETS AS SHOWN IN THE MCC ELEVATION. MATCH EXISTING MANUFACTURER, TYPE AND RATINGS.
 - LABEL BUCKETS WITH FULL EQUIPMENT NAMES, TAGS AND BUILDING LOCATIONS.

PANELBOARD BAR SCREEN LIGHTING PANEL, LP SCHEDULE											
MAIN BUS RATINGS:				100A, 120/208 VOLTS, 3 PHASE, 4 WIRE				FED FROM: MCC-B			
MINIMUM SHORTCIRCUIT INTERRUPTION RATING:				22,000 AIC				INCOMING FEED: 4#3			
MAIN BREAKER TRIP: 100A								ENCLOSURE: NEMA 12			
ESTIMATED CONNECTED LOAD: 7.63 KW											
DESCRIPTION	LOAD KW	CB TRIP/POLE	CIR. NO					CIR. NO	CB TRIP/POLE	LOAD KW	DESCRIPTION
				A B C							
SCREENS RM LIGHTING	.80	20A/1P	1					2	20A/1P	.10	EXTERIOR LIGHTING
DUMPSTER RM LIGHTING	.32	20A/1P	3					4	20A/1P	.32	COMPACTOR RM LIGHTING
EXIT LIGHTING	--	20A/1P	5					6	20A/1P	1.0	RECEPTACLES
AIT/AE-711,712,713	.20	20A/1P	7					8	20A/1P	.60	RECEPTACLES
YS-400	.20	20A/1P	9					10	20A/1P	.60	RECEPTACLES
MOTORIZED DOOR	.75	20A/3P	11					12	20A/1P	.40	RECEPTACLES
			13					14	20A/3P	.75	MOTORIZED DOOR
			15					16			
ROOF RECEPTACLES	.40	20A/1P	17					18	20A/3P	.75	MOTORIZED DOOR
FSL-705	.12	20A/1P	19					20			
FSL-706	.12	20A/1P	21					22			
GAS DETECTION PANEL	.20	20A/1P	23					24	20A/1P	--	SPARE
SPARE	--	20A/1P	25					26			
SPARE	--	20A/1P	27					28			
SPARE	--	20A/1P	29					30	20A/1P	--	SPARE
SPARE	--	20A/1P	31					32	20A/1P	--	SPARE
SPARE	--	20A/1P	33					34	20A/1P	--	SPARE
SPARE	--	20A/1P	35					36	20A/1P	--	SPARE
SPARE	--	20A/1P	37					38	20A/1P	--	SPARE
SPARE	--	20A/1P	39					40	20A/1P	--	SPARE
SPARE	--	20A/1P	41					42	20A/1P	--	SPARE

PANELBOARD GENERAL NOTES:

- FOR THREE PHASE CIRCUITS - PROVIDE 3/4" C W/ 3#12, 1#12 GND FOR 20 AMP CIRCUITS SERVING EQUIPMENT WITHIN 60' OF PANELBOARD. UNLESS OTHER WISE NOTED. INCREASE CONDUIT AND WIRE SIZES IN ACCORDANCE WITH THE N.E.C. FOR LONGER CIRCUITS OR CIRCUITS MORE THAN 20 AMPS.
- FOR SINGLE PHASE CIRCUITS - PROVIDE 3/4" C W/ 2#12, 1#12 GND FOR 20 AMP CIRCUITS SERVING EQUIPMENT WITHIN 60' OF PANELBOARD. UNLESS OTHER WISE NOTED. INCREASE CONDUIT AND WIRE SIZE IN ACCORDANCE WITH THE N.E.C. FOR LONGER CIRCUITS OR CIRCUITS MORE THAN 20 AMPS.
- CONTRACTOR SHALL BALANCE ALL PANELBOARD LOADS ACROSS PHASES.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	J. DULAK
				DRAWN BY:	B. LADA
				CHECKED BY:	G. LYNCH
0	BID	06/2024	PDS	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY		

FOR BID



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NEW YORK, NEW YORK 10018

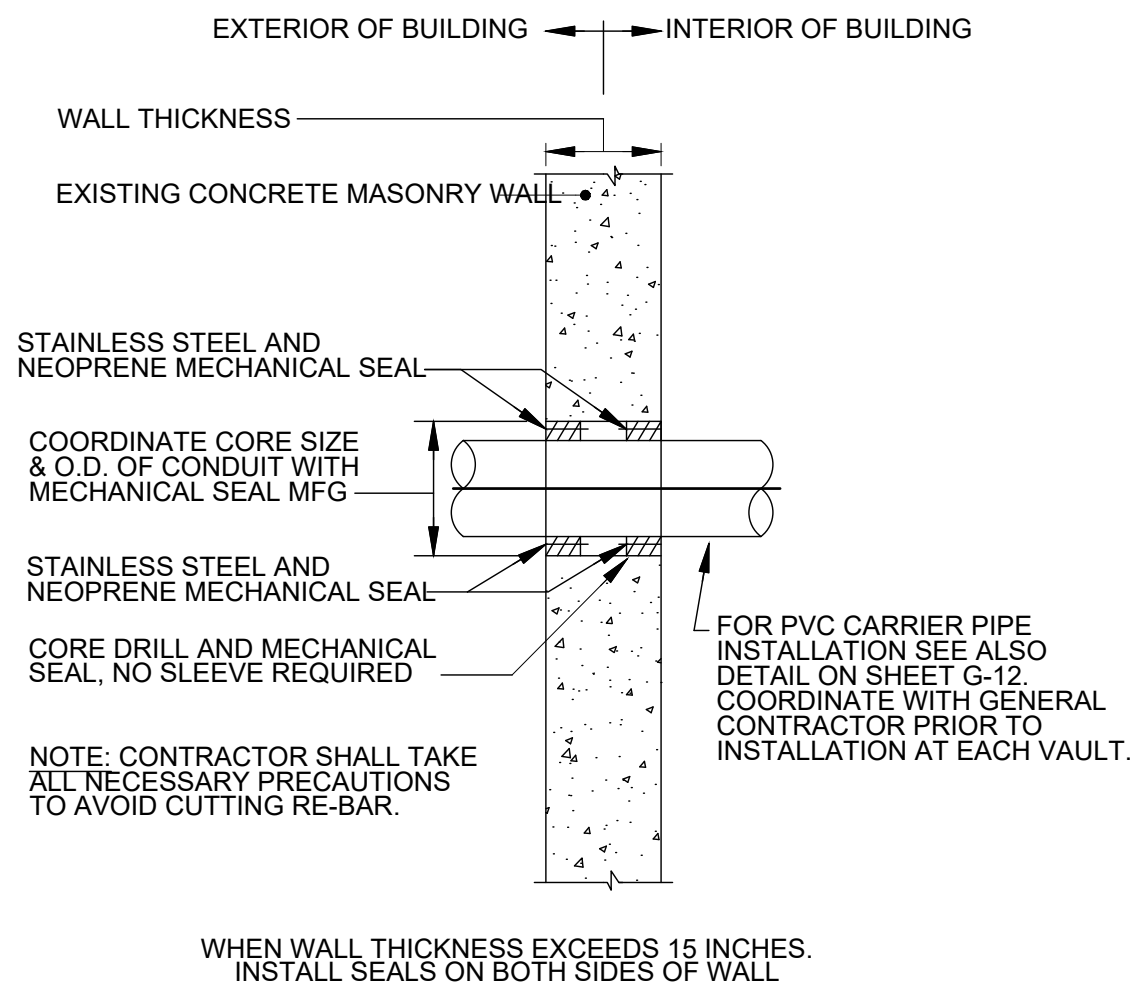
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

MAIN PUMP STATION/SCREENING BUILDING
ELECTRICAL
MCC SCHEDULE AND ELEVATION

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	

E-07

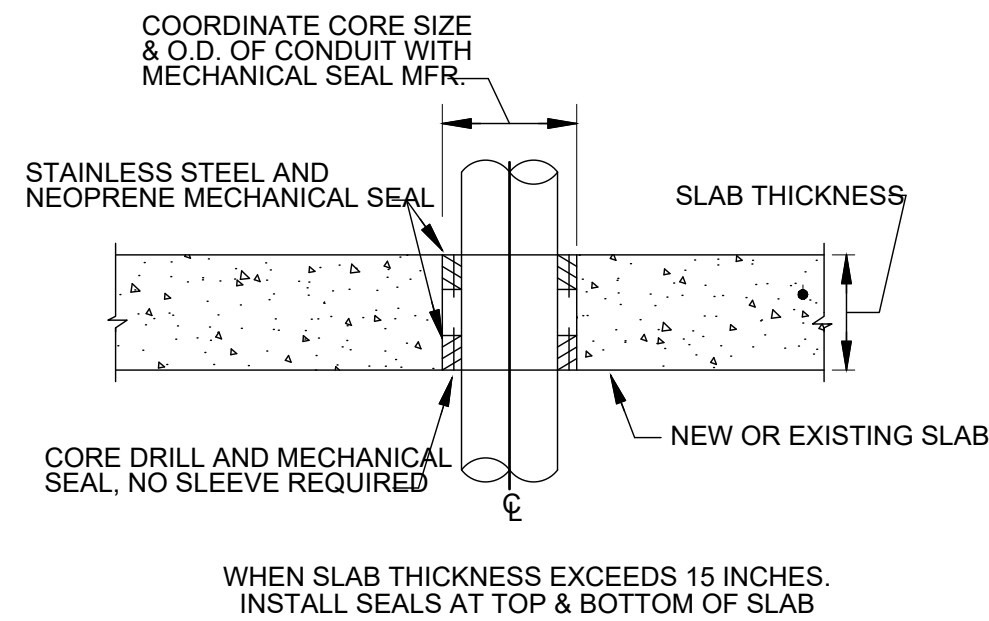


CONDUIT PENETRATION THRU CONCRETE WALL

DETAIL

NTS

1
E-09

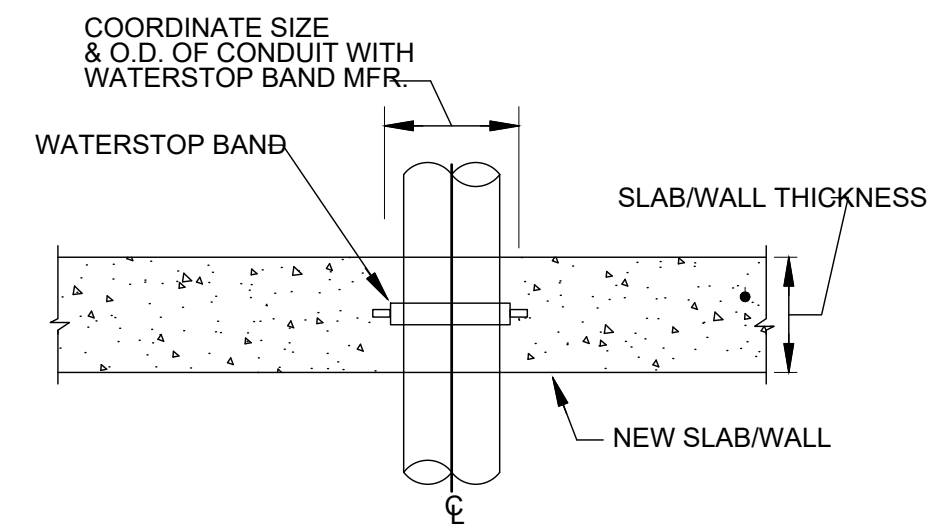


CONDUIT PENETRATION THRU CONCRETE SLAB

DETAIL

NTS

2
E-09

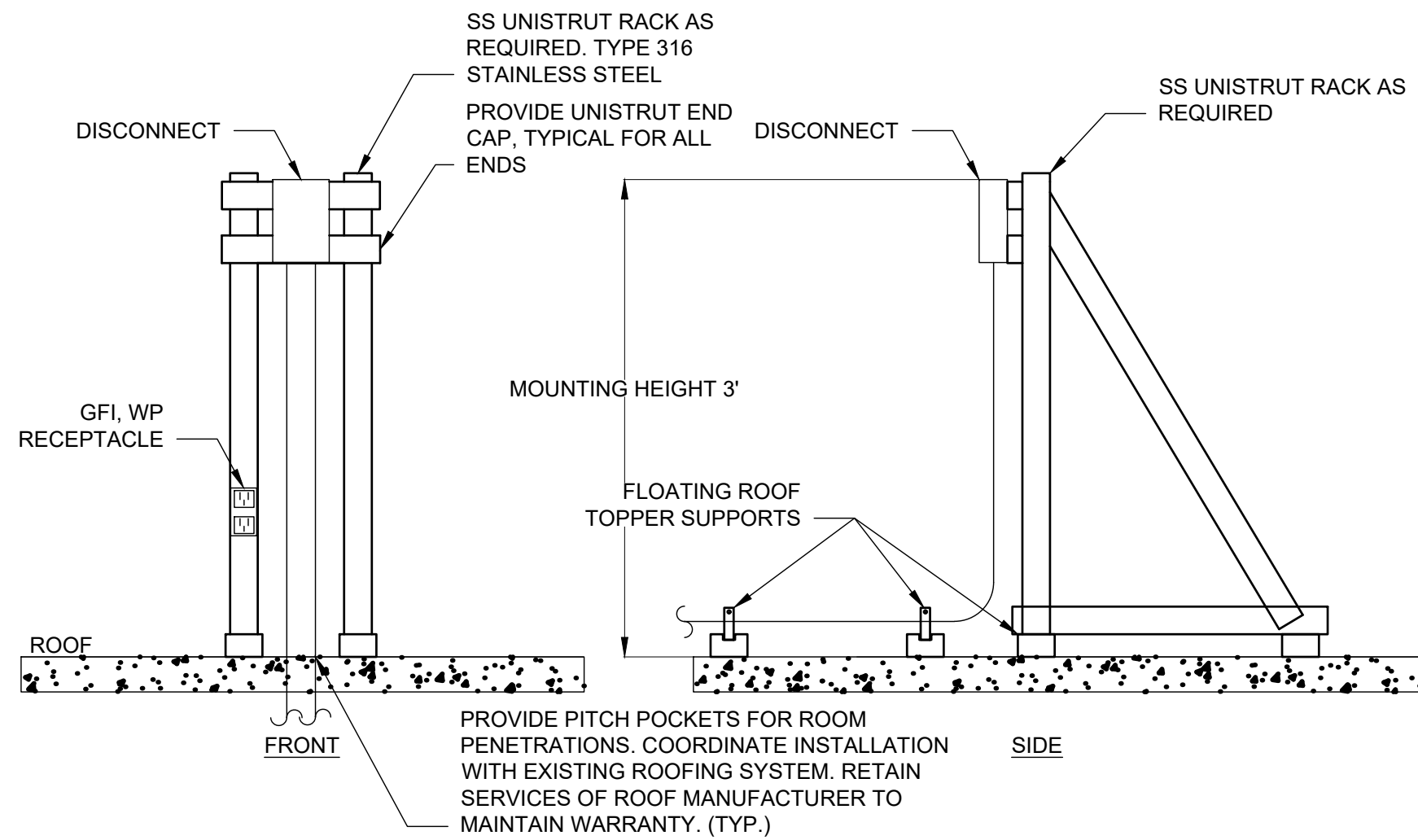


CONDUIT PENETRATION THRU NEW CONCRETE WALL/SLAB

DETAIL

NTS

3
E-09



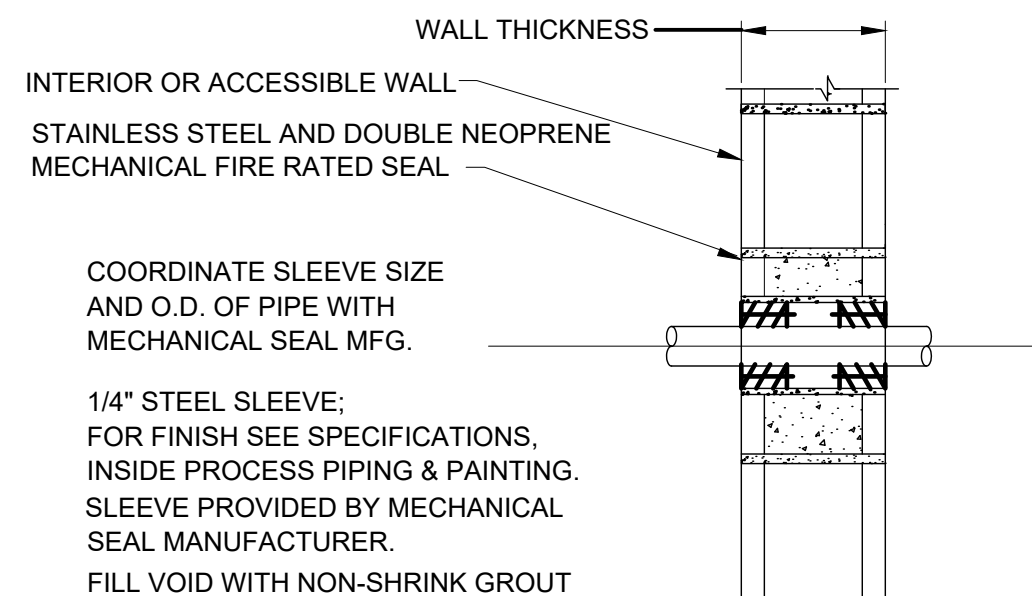
ROOF MOUNTED DISCONNECT MOUNTING DETAIL

DETAIL

NTS

4
E-09

NOTE
ALL STAIRWELL WALLS SHALL BE CONSIDERED FIRE RATED. ALL CONDUIT PENETRATIONS SHALL BE SEALED IN STRICT ACCORDANCE WITH THIS DETAIL AND ALL LOCAL FIRE CODES.

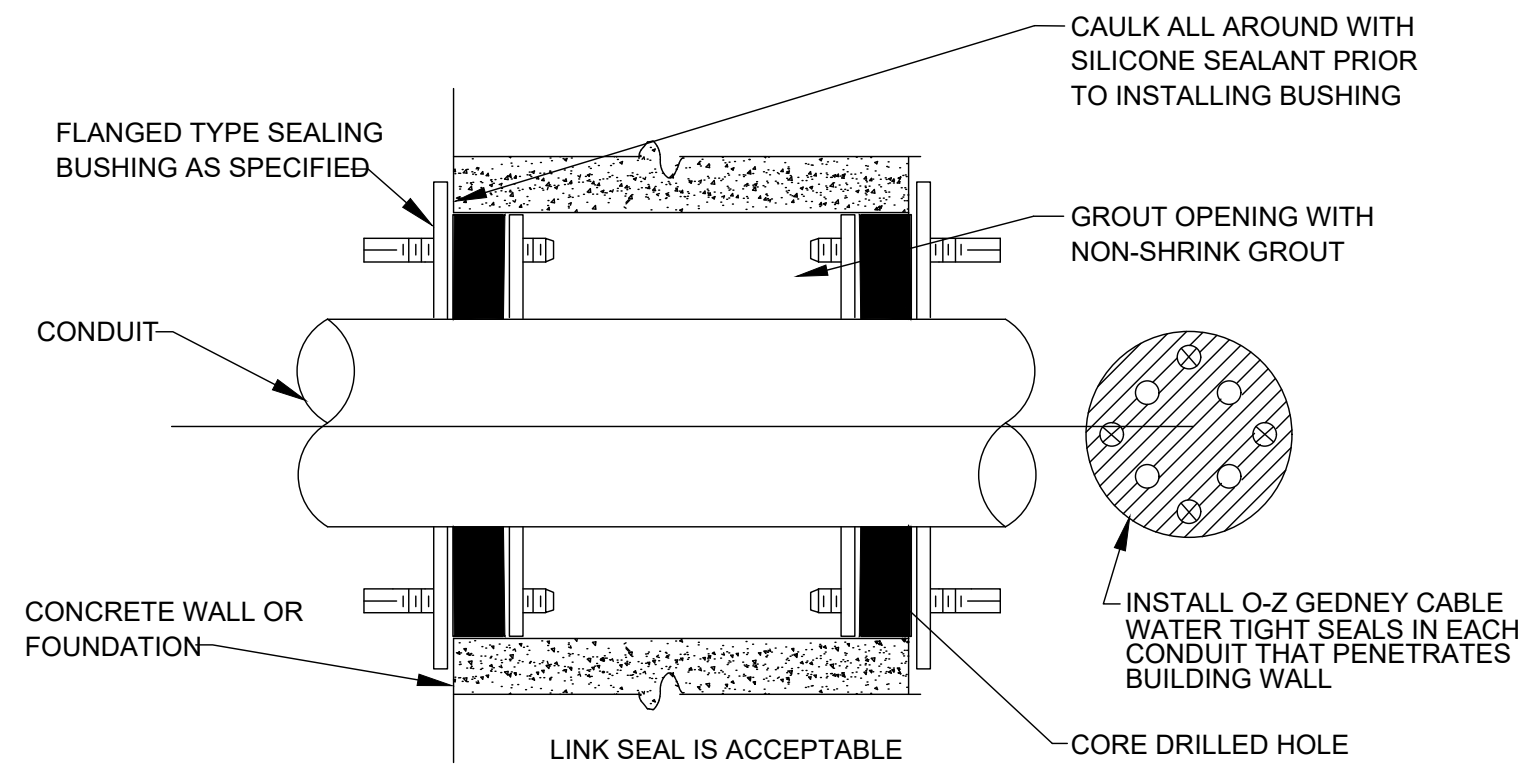


CONDUIT PENETRATION THROUGH FIRE RATED BLOCK WALL

DETAIL

NTS

5
E-09

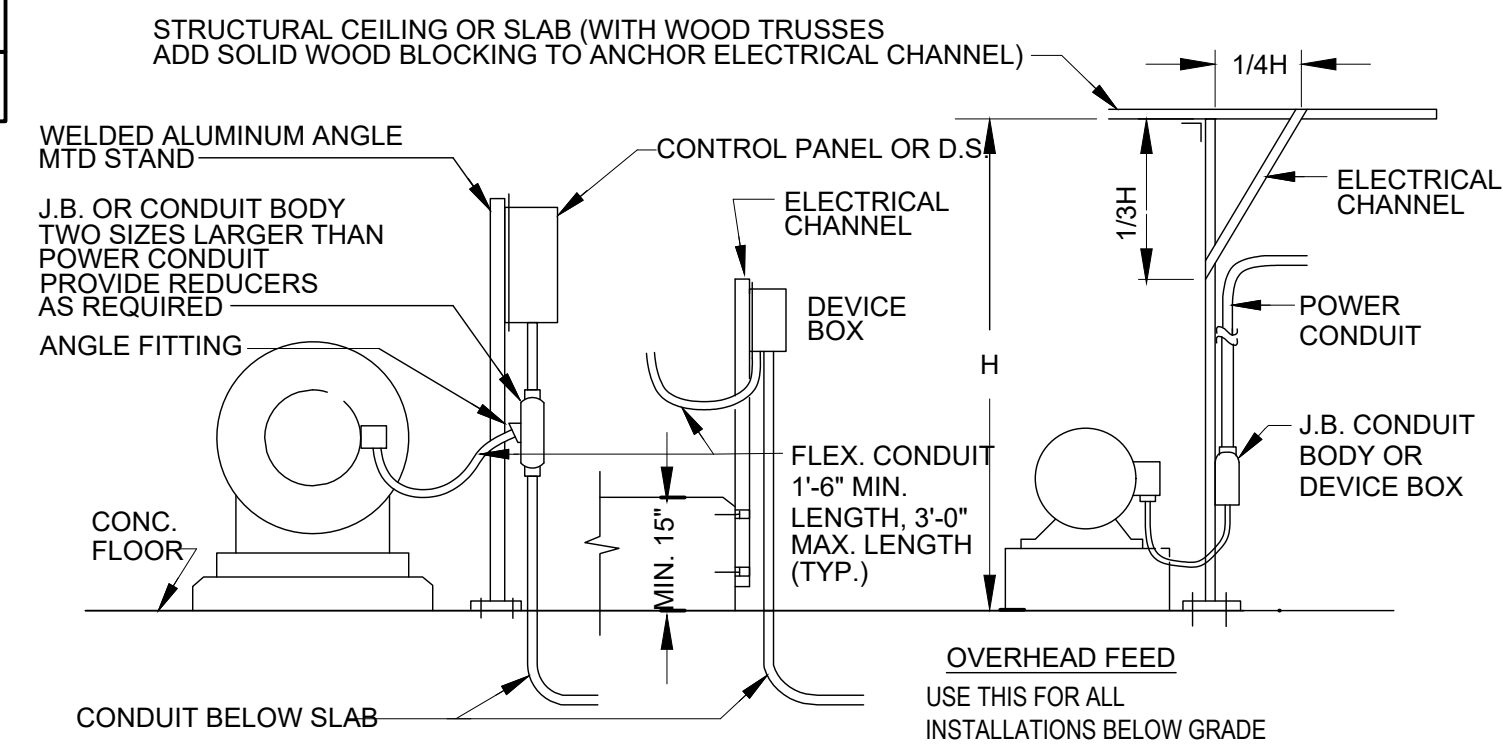


TYPICAL SLEEVE DETAIL FOR EXISTING WALL PENETRATION

DETAIL

NTS

6
E-09

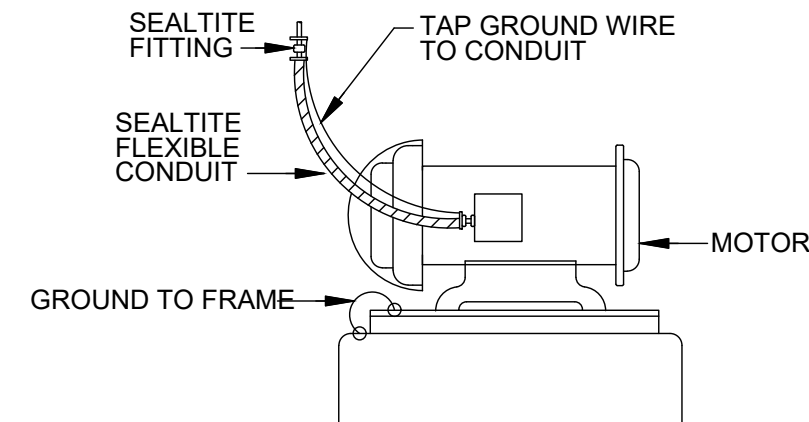


TYPICAL ELECTRICAL FEED

DETAIL

NTS

7
E-09



GROUNDING ELECTRIC MOTOR

DETAIL

NTS

8
E-09



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NEW YORK, NEW YORK 10018

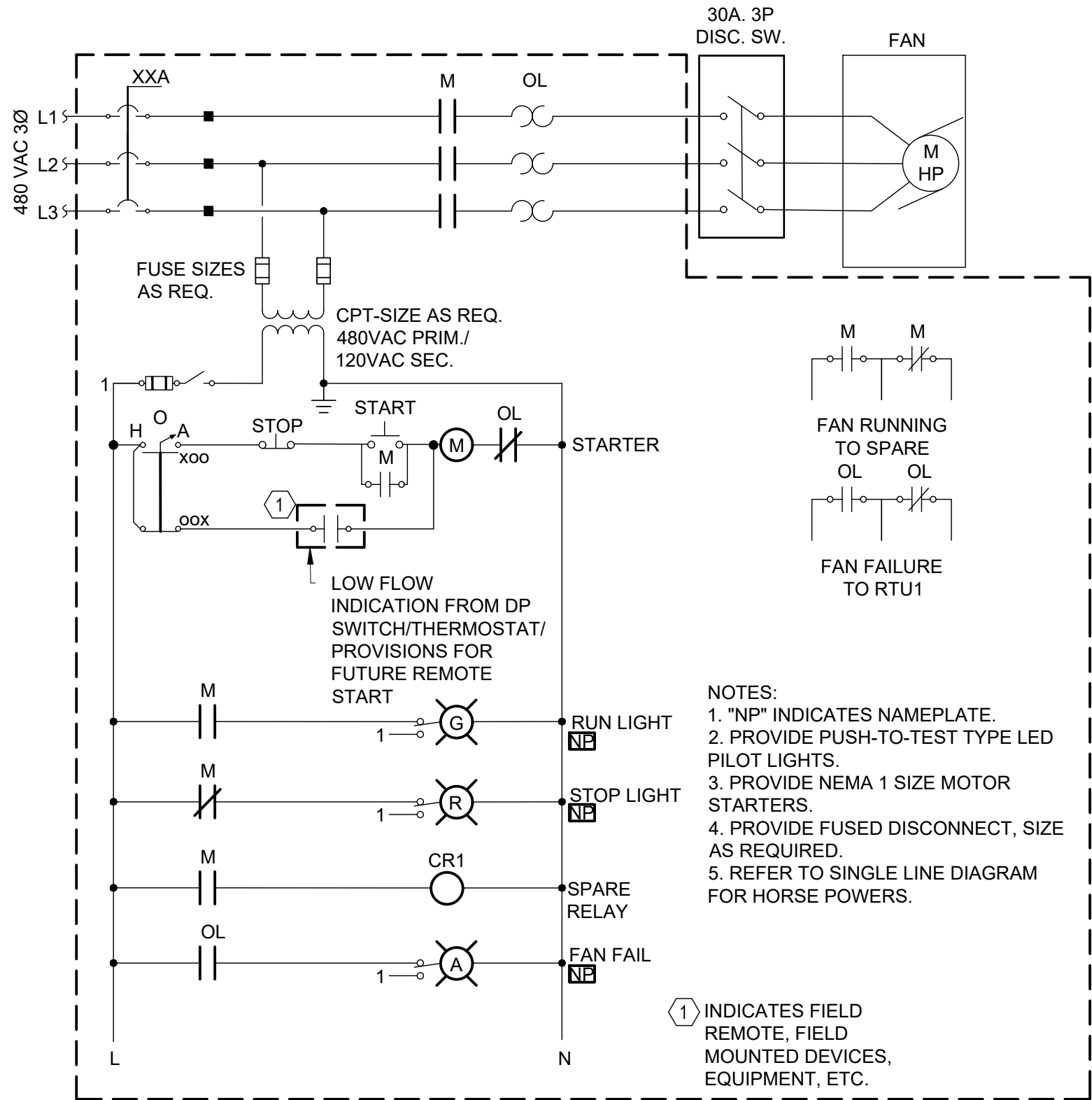
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
MISCELLANEOUS DETAILS I

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER: E-09

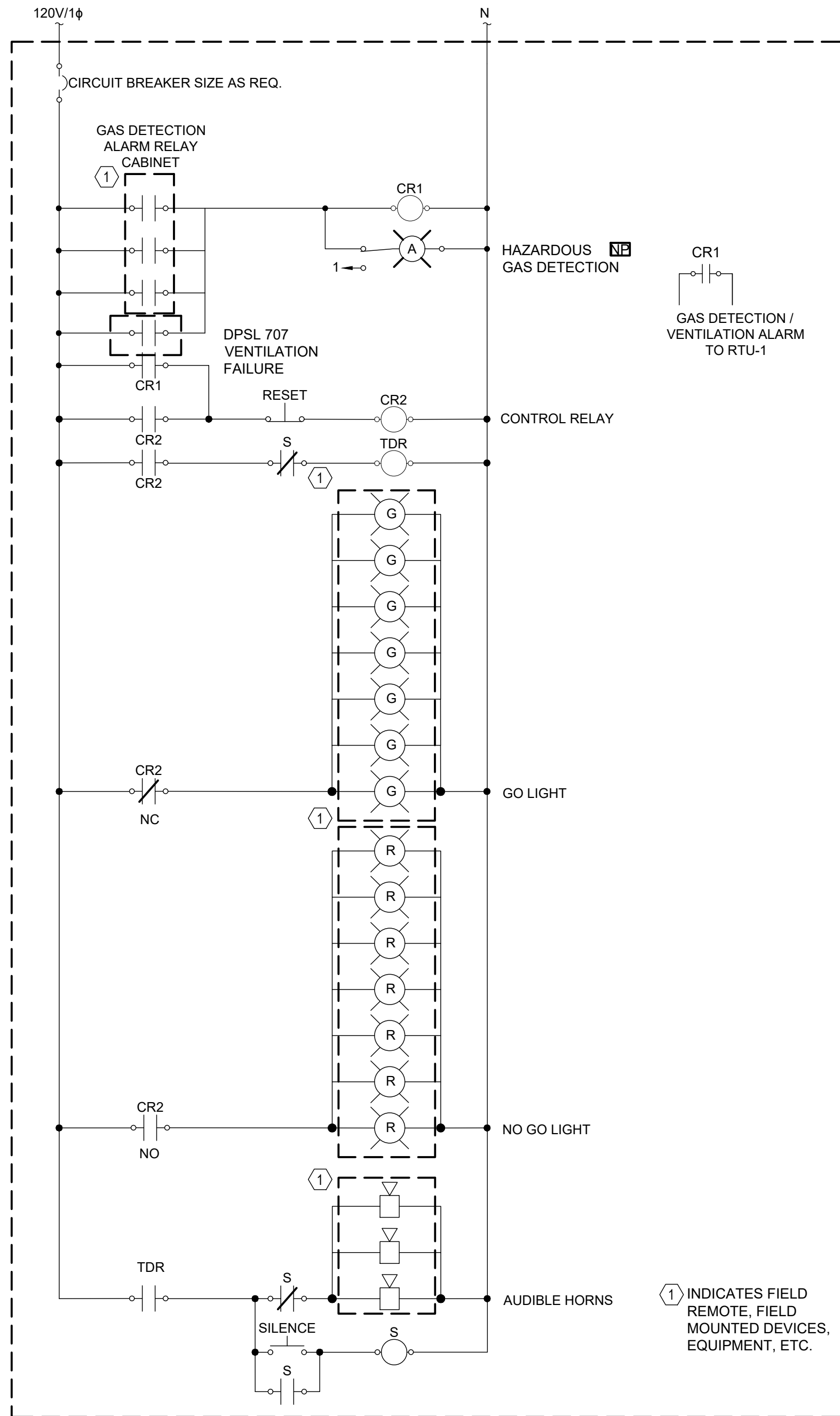
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PLOT DATE: 6/24/2024 8:08 PM BY: BCASULL



TYPICAL VENTILATION FAN
ELEMENTARY DIAGRAM
DETAIL

NTS

- NOTES:
1. THIS ELEMENTARY DIAGRAM IS TYPICAL FOR THE FOLLOWING:
 - BAR SCREEN EXHAUST (EMERGENCY) FAN
 - BAR SCREEN SUPPLY FAN
 - ELECTRICAL ROOM EXHAUST FAN



GAS DETECTION ALARM RELAY
CABINET ELEMENTARY

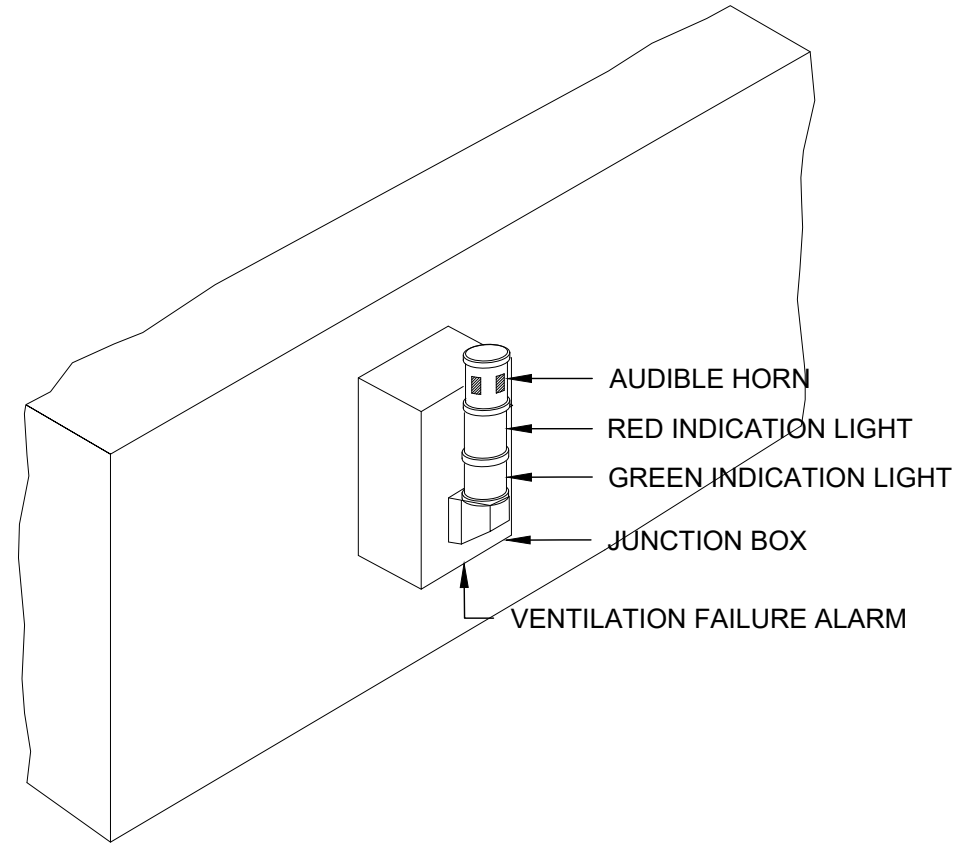
- NOTES:
1. REFER TO FLOOR PLANS FOR ALARM RELAY CABINET LOCATION, GO/NO GO LIGHT AND AUDIBLE HORN QUANTITY, AND THE AIT LOCATION AND QUANTITY.

DETAIL

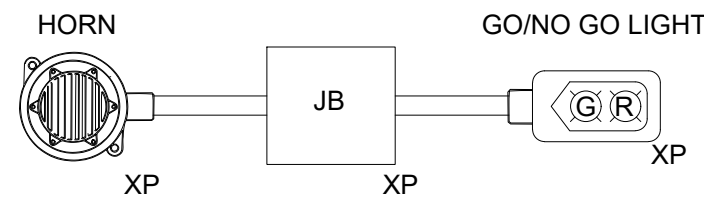
NTS

STACKABLE WALL MOUNTED GO/NO GO
ALARM TOWER LIGHT DETAIL

NTS



- VENTILATION FAILURE ALARM NOTES:
1. AUDIBLE HORN TO PRODUCE 100dBa AT 10'.
 2. RED INDICATION LIGHTS TO BE RED STROBING.
 3. YELLOW INDICATION LIGHT TO YELLOW STROBING.
 4. GREEN INDICATION LIGHTS TO BE STEADY.
 5. PROVIDE A SIGN LABELED AS "HAZARDOUS GAS/VENTILATION ALARM INDICATION GREEN-NOT DETECTED, RED-PRESENT" BELOW THE LIGHTS.



- NOTES:
1. GO/NO GO LIGHT SHALL BE A FULLY ASSEMBLED EFS SERIES CONTROL STATION WITH PILOT LIGHTS. FROM CROUSE-HINDS OR APPROVED EQUAL.
 2. HORN SHALL BE MODEL FEDERAL SIGNAL MODEL, 31X-024-1 OR APPROVED EQUAL.
 3. GO/NO GO LIGHTS AND HORNS SHALL BE RATED FOR CLASS 1, DIV. 1 GROUP D AREAS.
 4. PROVIDE A SIGN LABELED AS "HAZARDOUS GAS INDICATION GREEN-NOT DETECTED, RED-PRESENT" BELOW THE LIGHTS.

HAZARDOUS MOUNTED GO/NO GO
ALARM DETAIL

DETAIL

NTS



Hazen

HAZEN AND SAWYER
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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

ELECTRICAL
MISCELLANEOUS DETAILS II

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER:

E-10