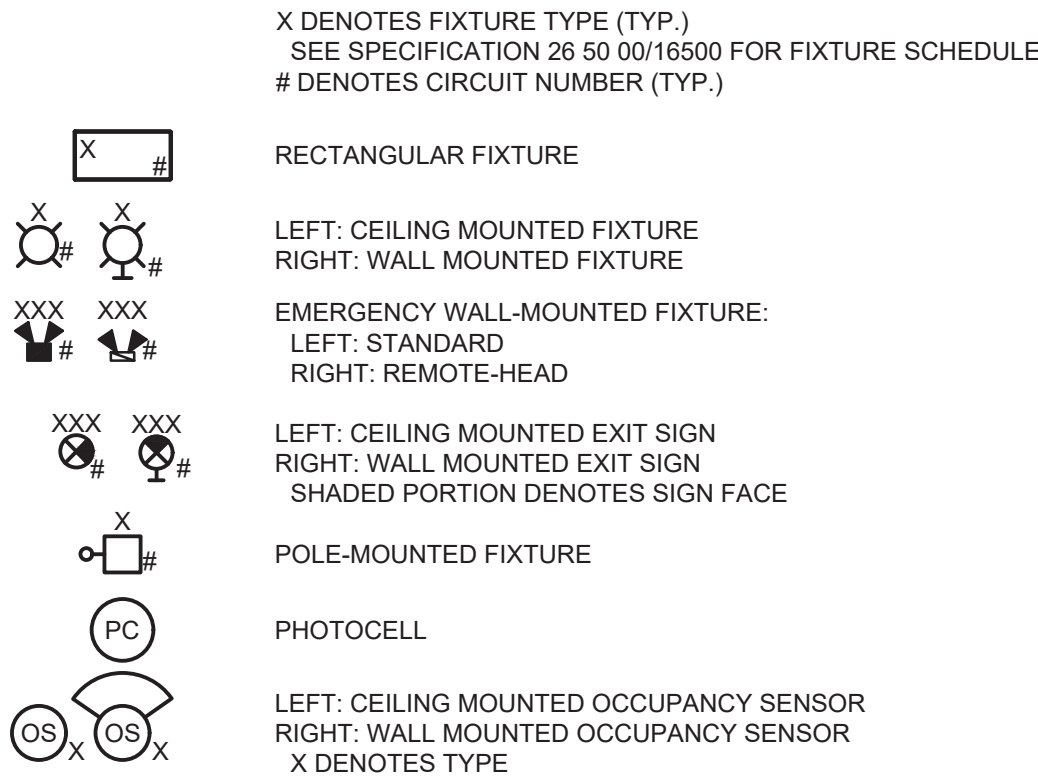
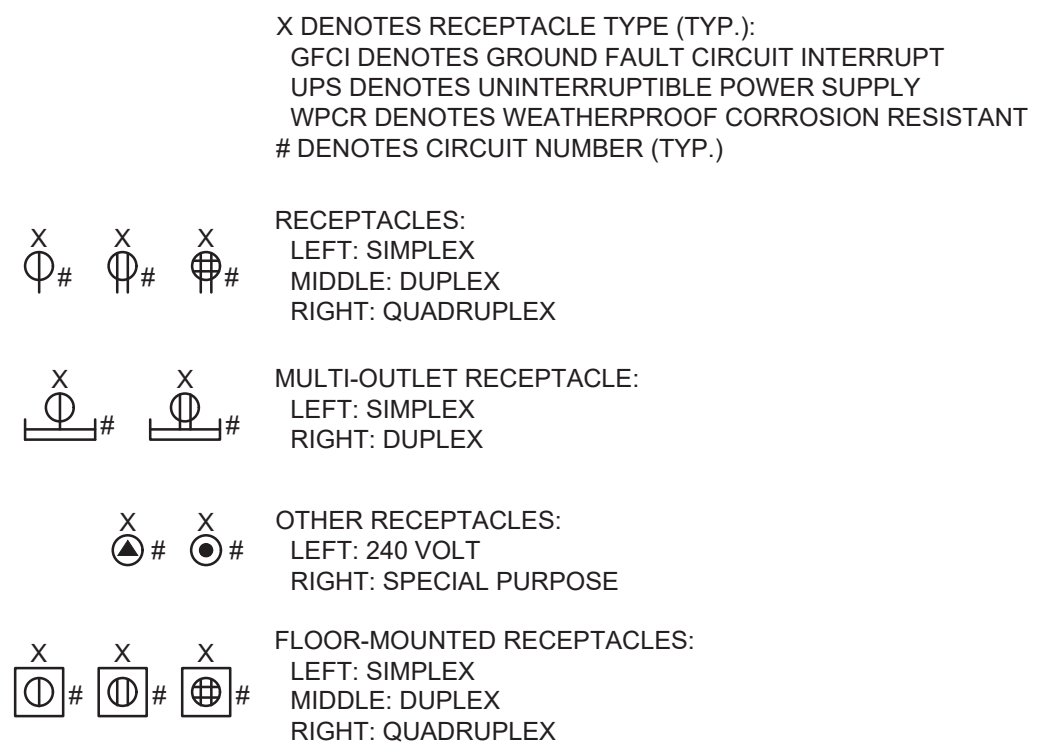


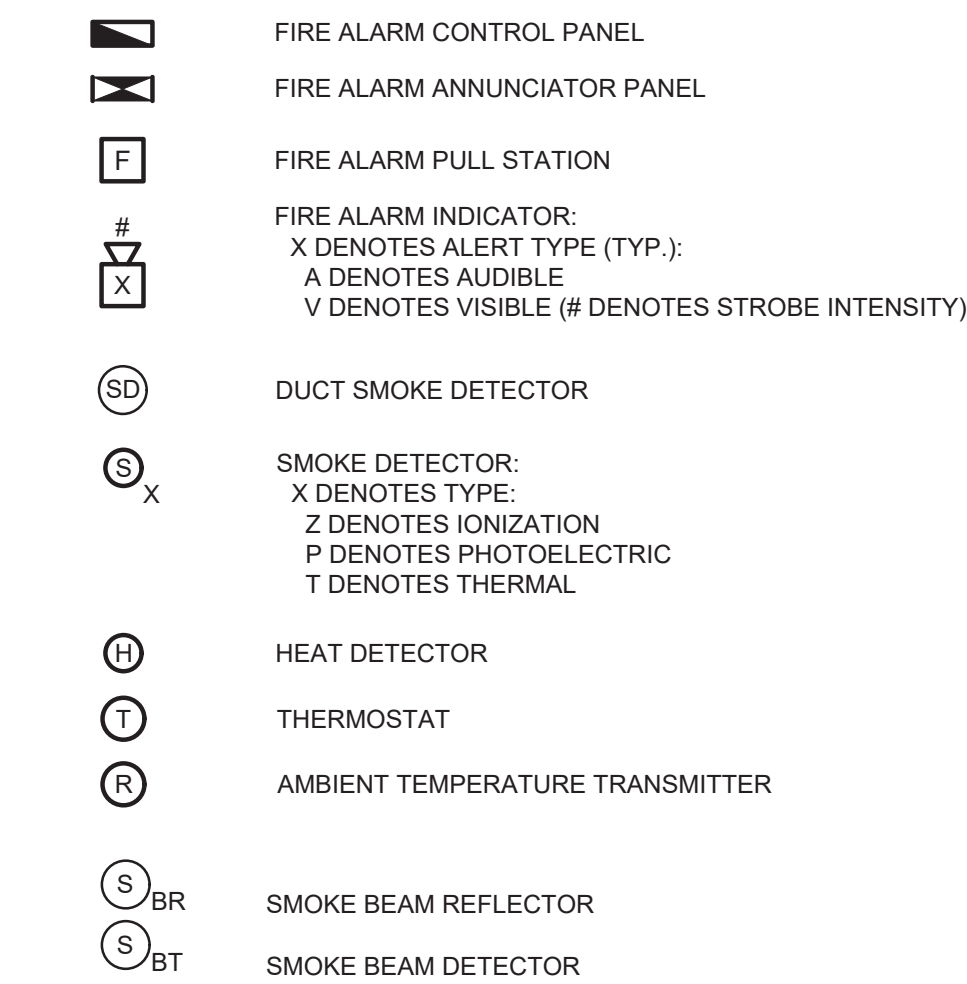
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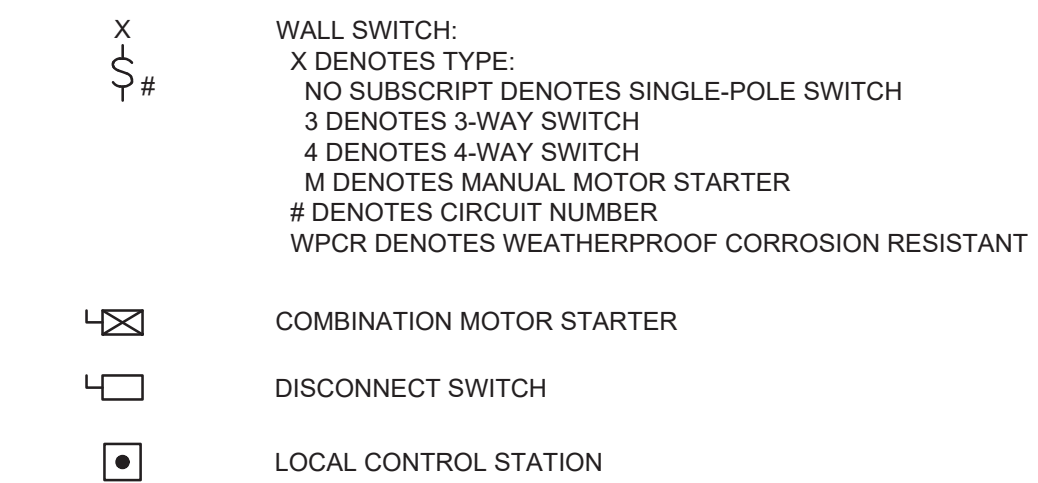
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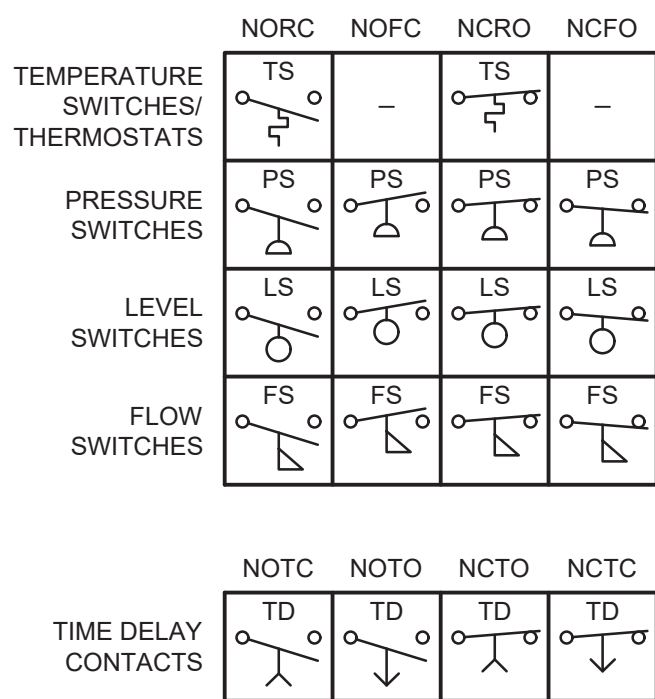
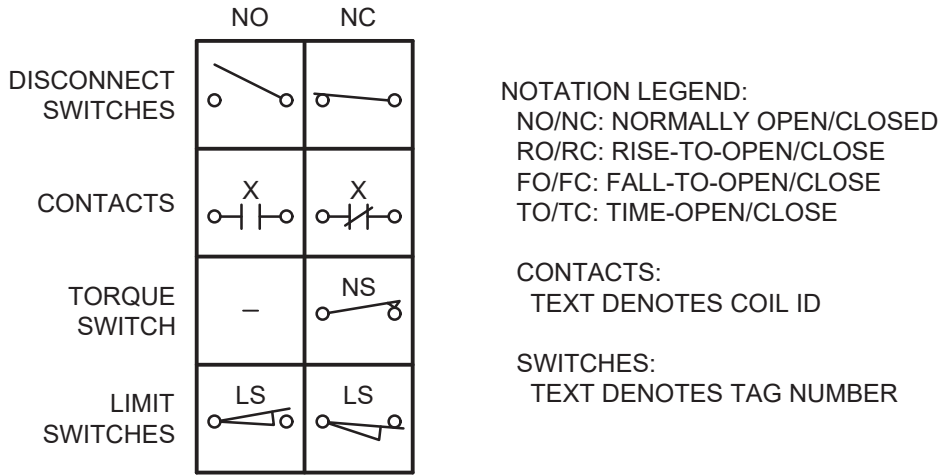
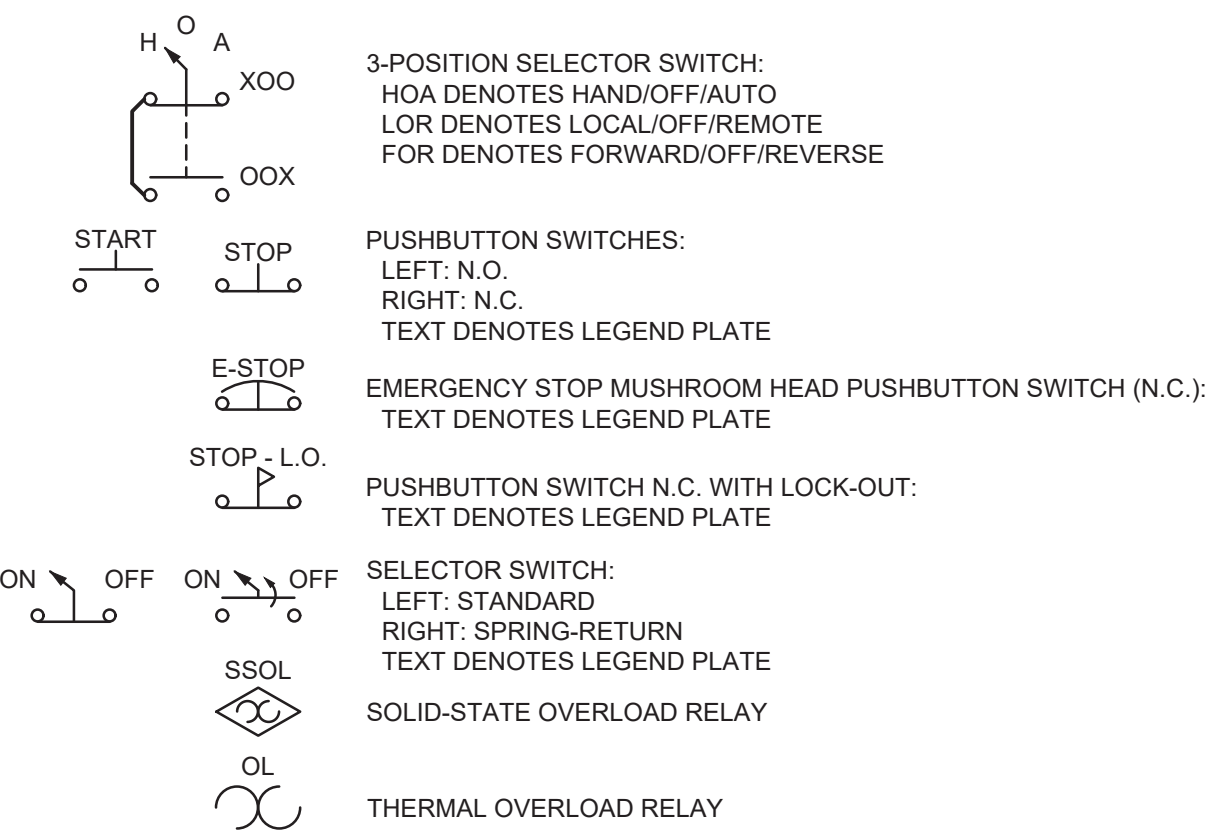
HVAC AND FIRE ALARM



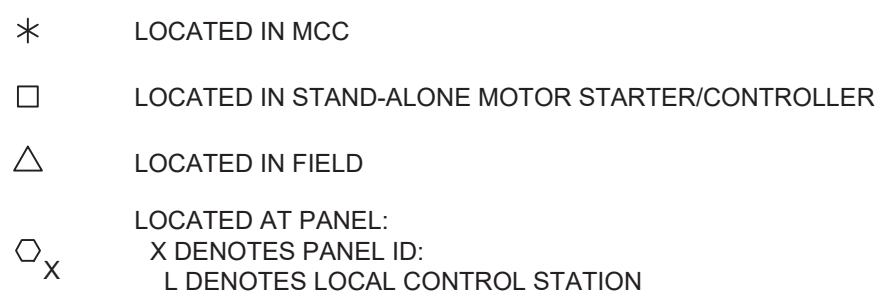
SWITCHES



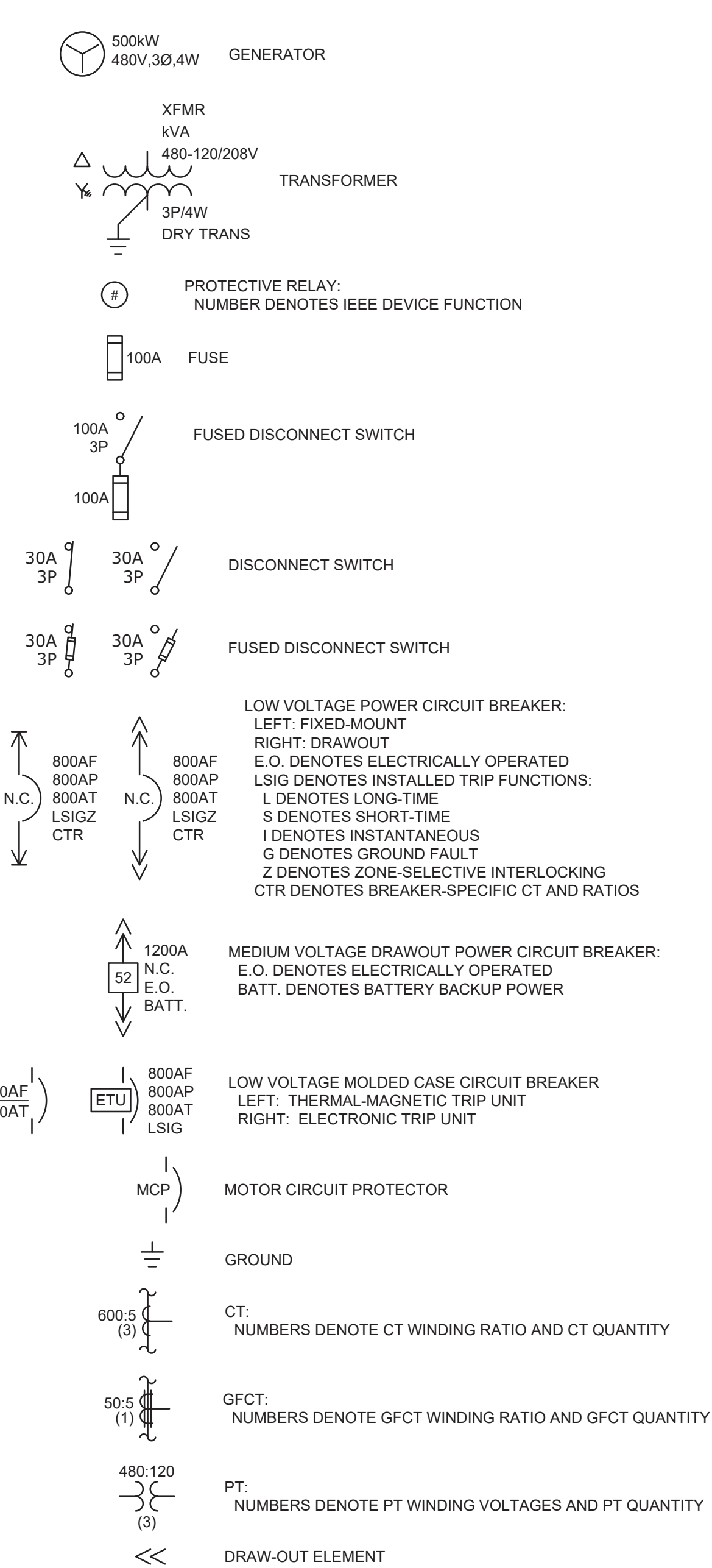
ELEMENTARY CONTROL SCHEMATICS



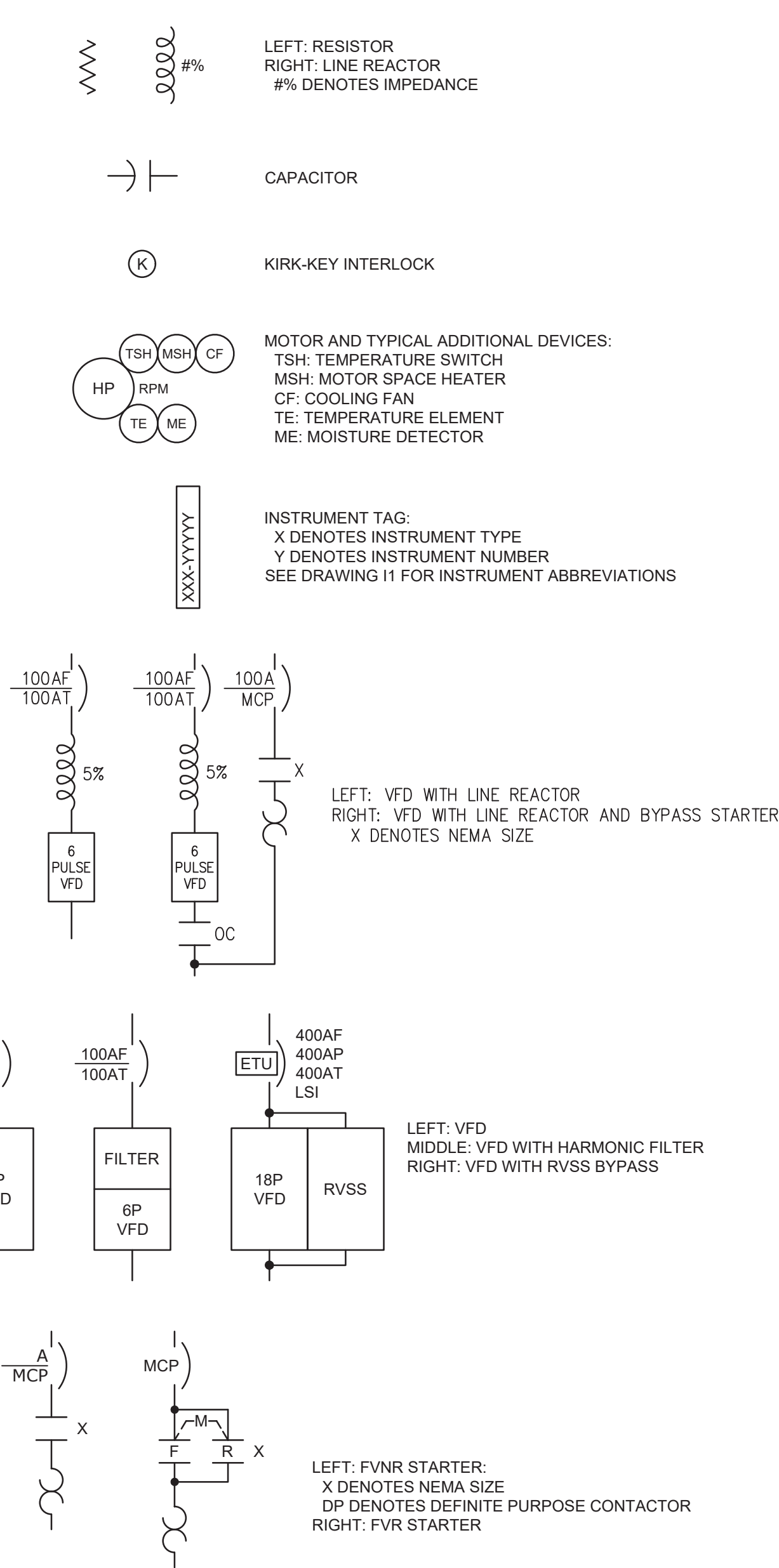
EQUIPMENT/DEVICE LOCATION SYMBOLS



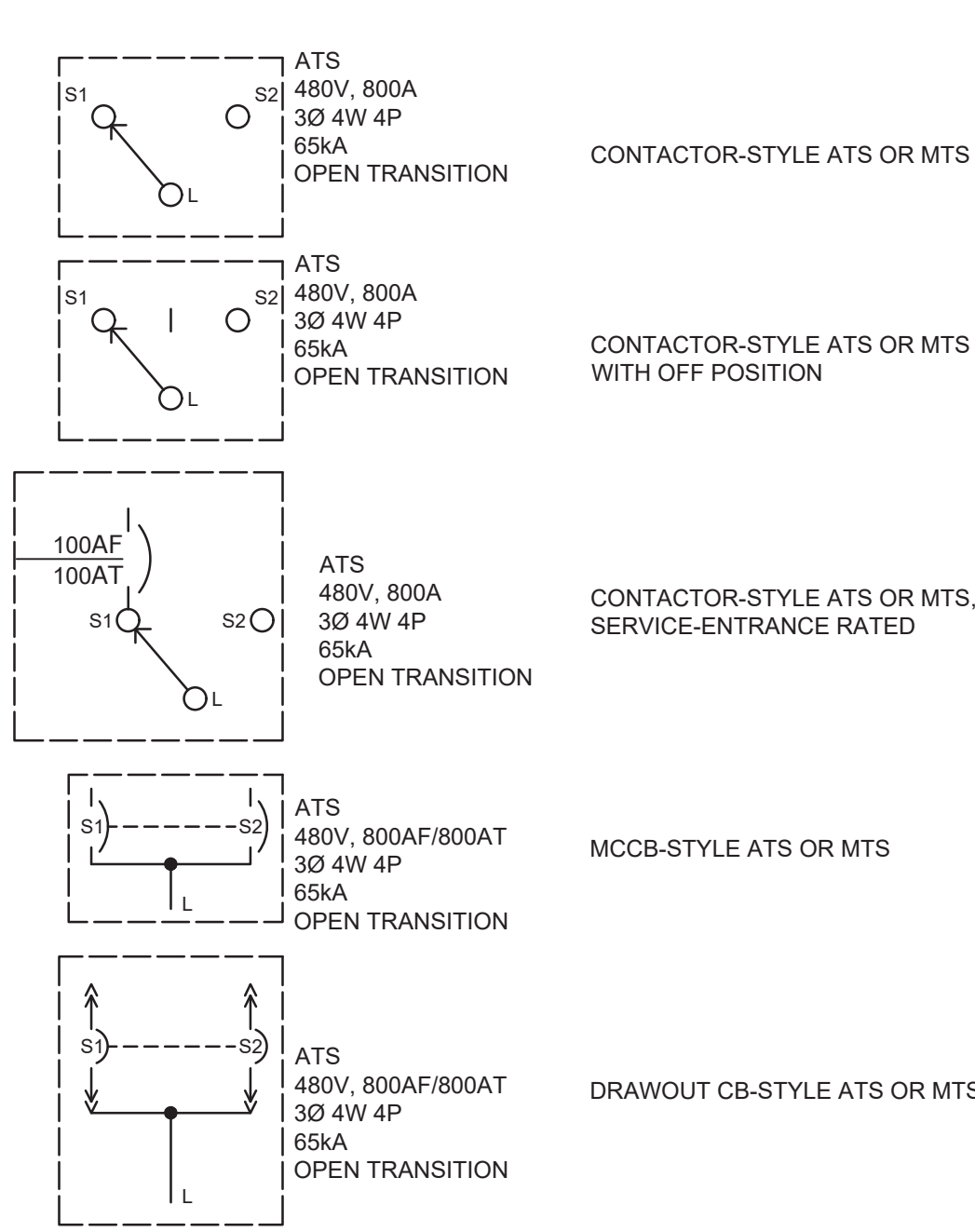
SINGLE-LINE DIAGRAMS



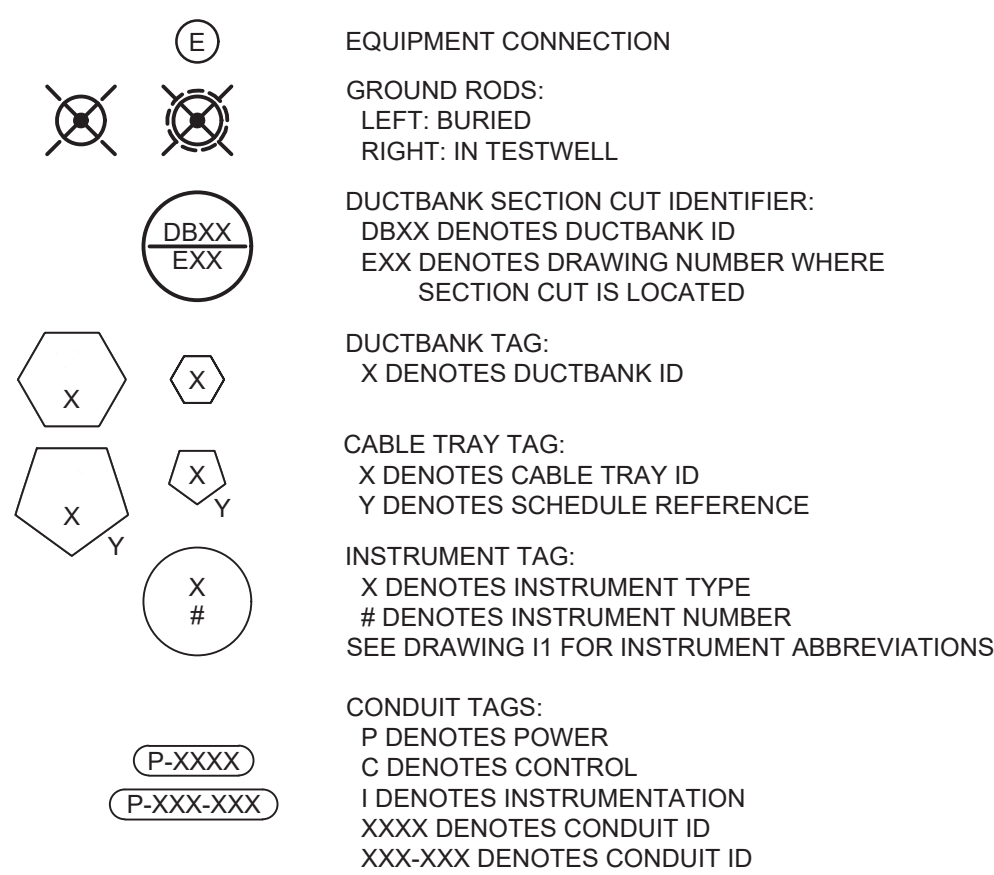
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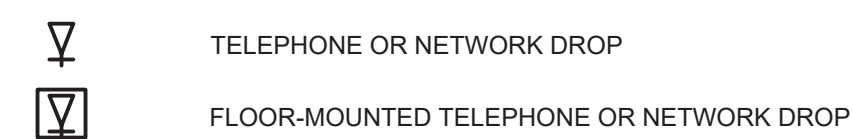
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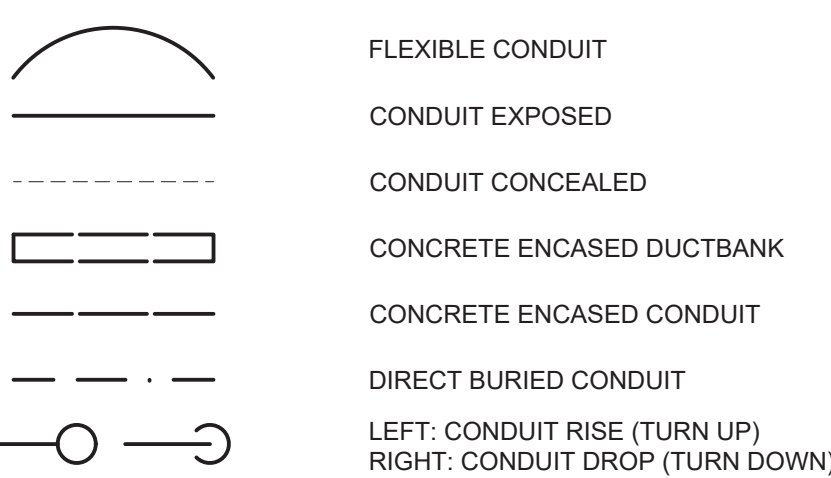
MISC PLAN VIEW SYMBOLS



COMMUNICATIONS



WIRING



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REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
LEGENDS, AND SYMBOLS

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-001

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ABBREVIATIONS

ADR	ADDRESSABLE RELAY
AE	ANALYSIS ELEMENT
AEM	ASSEMBLIES ELECTRONIC MONITOR (MONITORS LVTU'S)
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AIT	ANALYSIS INDICATING TRANSMITTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AF	AMPERE FRAME
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BC	BYPASS CONTACTOR
BIM	BREAKER INTERFACE MODULE
BKR	BREAKER
CBMM	CIRCUIT BREAKER METERING MODULE (FOR FEEDER BREAKERS
CED	CENTRAL ENERGY DISPLAY (MONITORS CBMM'S)
CLF	CURRENT LIMITING FUSE
CMU	CENTRAL MONITORING UNIT (MONITORS MMS')
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DUCTBANK
DSW	DISCONNECT SWITCH
EHH	ELECTRIC HAND HOLE
EMH	ELECTRIC MANHOLE
EO	ELECTRICALLY OPERATED
ETM	ELAPSED TIME METER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FS	FLOW SWITCH
FSL	FLOW SWITCH LOW
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFCT	GROUND FAULT CURRENT TRANSFORMER
GNG	GO-NO GO
GND	GROUND
HOA	HAND-OFF-AUTO
HPU	HYDRAULIC POWER UNIT
IC	INPUT CONTACTOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
JB	JUNCTION BOX
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LP	LIGHTING PANEL
LS	LEVEL SWITCH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW-LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH-HIGH
LT	LEVEL TRANSMITTER
LVTU	LOW VOLTAGE TRIP UNIT
MAP	METERING AND PROTECTION
MCC	MOTOR CONTROL CENTER
MFR	MULTI-FUNCTION RELAY
MH	MANHOLE
MMP	METER MONITOR & PROTECTION
MMS	MICROPROCESSOR MOTOR STARTER
MOD	MOTOR OPERATED DAMPER
MOG	MOTOR OPERATED GATE

ABBREVIATIONS, CONT.

MOL	MOTOR OPERATED LOUVER
MOV	MOTOR OPERATED VALVE
MPR	MOTOR PROTECTION RELAY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MWTS	MOTOR WINDING TEMPERATURE SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NWP	NETWORK PROTECTOR
OC	OUTPUT CONTACTOR
OL	OVERLOAD
PB	PULLBOX
PC	PHOTOCELL
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PP	POWER PANEL
PST	PHASE SHIFTING TRANSFORMER
PT	POTENTIAL TRANSFORMER
PTT	PUSH TO TEST
PV	PHOTOVOLTAIC
R	END-OF-LINE RESISTOR
RCS	REMOTE CONTROL STATION
RECP	RECEPTACLE
RIO	REMOTE I/O
RM	ROOM
RTD	RESISTANCE THERMAL DEVICE
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE
S.E.	SERVICE ENTRANCE
SMM	SUB METER MODULE
SP. C.	SPARE CONDUIT
SPD	SURGE PROTECTIVE DEVICE
SST	STAINLESS STEEL
SWGR	SWITCHGEAR
TB	TEST BLOCK
TC	TIMED CLOSE
TO	TIMED OPEN
TSH	TWISTED SHIELDED
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
VCP	VENDOR CONTROL PANEL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
WPCR	WEATHER PROOF CORROSION RESISTANT
WT	WEIGHT
XFMR	TRANSFORMER

NOTES:

1. THE INSTALLATION OF ALL CONCRETE ENCASED ELECTRICAL CONDUITS SHALL COMPLY WITH ACI 318, SECTION 20.7. CONTRACTOR SHALL SUPPLY EXPANSION JOINT FITTINGS AS REQUIRED FOR THERMAL EXPANSION AND DEFLECTION.
2. BOND ALL NEW CONCRETE ENCASED GROUND CONDUCTORS TO EXISTING GROUND CONDUCTORS IN ALL MANHOLES, PULL BOXES, CABLE TRAYS, AND SIMILAR LOCATIONS WHERE APPLICABLE.
3. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.
4. UNLESS OTHERWISE NOTED, ALL LIGHTING SWITCHES, CONTROL SWITCHES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED WITH THEIR CENTERLINE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR, SLAB, OR GRADE.
5. A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL, OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.
6. LIGHTNING PROTECTION SYSTEMS SHALL BE PROVIDED FOR THE STRUCTURES INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SECTION 26 41 13.
7. FIRE ALARM SYSTEMS SHALL BE PROVIDED FOR THE STRUCTURES INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SECTION 28 46 20.
8. REFERENCE SECTION 01 73 12 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.
9. CONDUIT HOMERUNS ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REFER TO CONDUIT AND WIRE SCHEDULES, RISER DIAGRAMS, SINGLE LINE DIAGRAMS, AND OTHER DRAWINGS FOR CONDUIT AND WIRE REQUIREMENTS.
10. ALL POWER CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD, EXCEPT WHERE SPECIFICALLY DIMENSIONED ON PLANS.
11. EXACT CONDUIT STUB-UP LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUITS SHALL BE INSTALLED COMMENSURATE WITH THE EQUIPMENT FURNISHED.
12. ALL ELECTRICAL NON-STRUCTURAL COMPONENTS ARE SUBJECT TO SEISMIC DESIGN CATEGORY 'B' AND ARE THEREFORE EXEMPT FROM SEISMIC ANCHORAGE AND BRACING AS STIPULATED IN SECTION 01 73 23 - SEISMIC ANCHORAGE AND BRACING.
13. ALL ELECTRICAL WORK MUST BE DONE IN ACCORDANCE WITH NFPA 70E.

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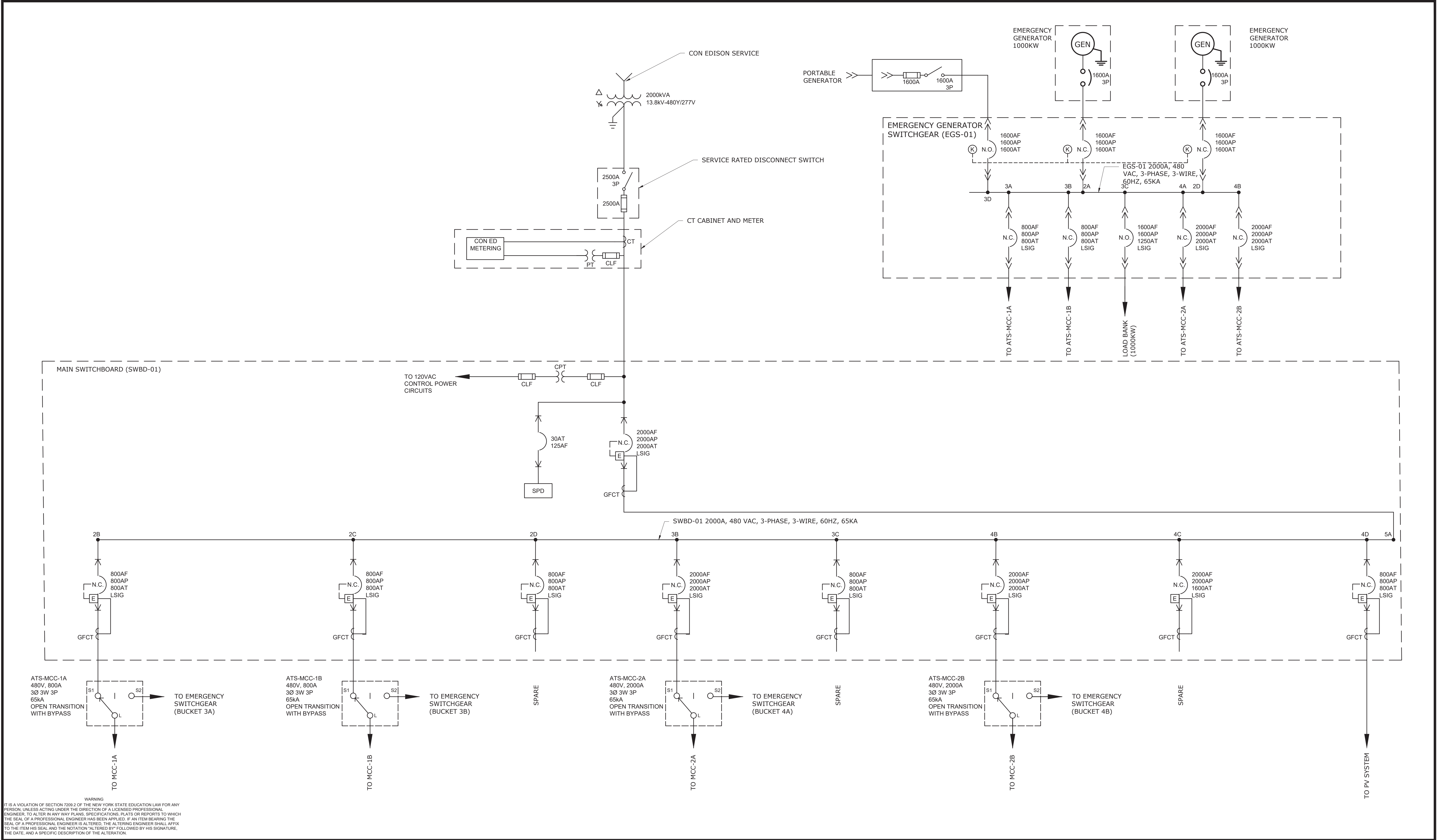
WESTCHESTER JOINT WATER WORKS
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RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
GENERAL NOTES & ABBREVIATIONS

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-002

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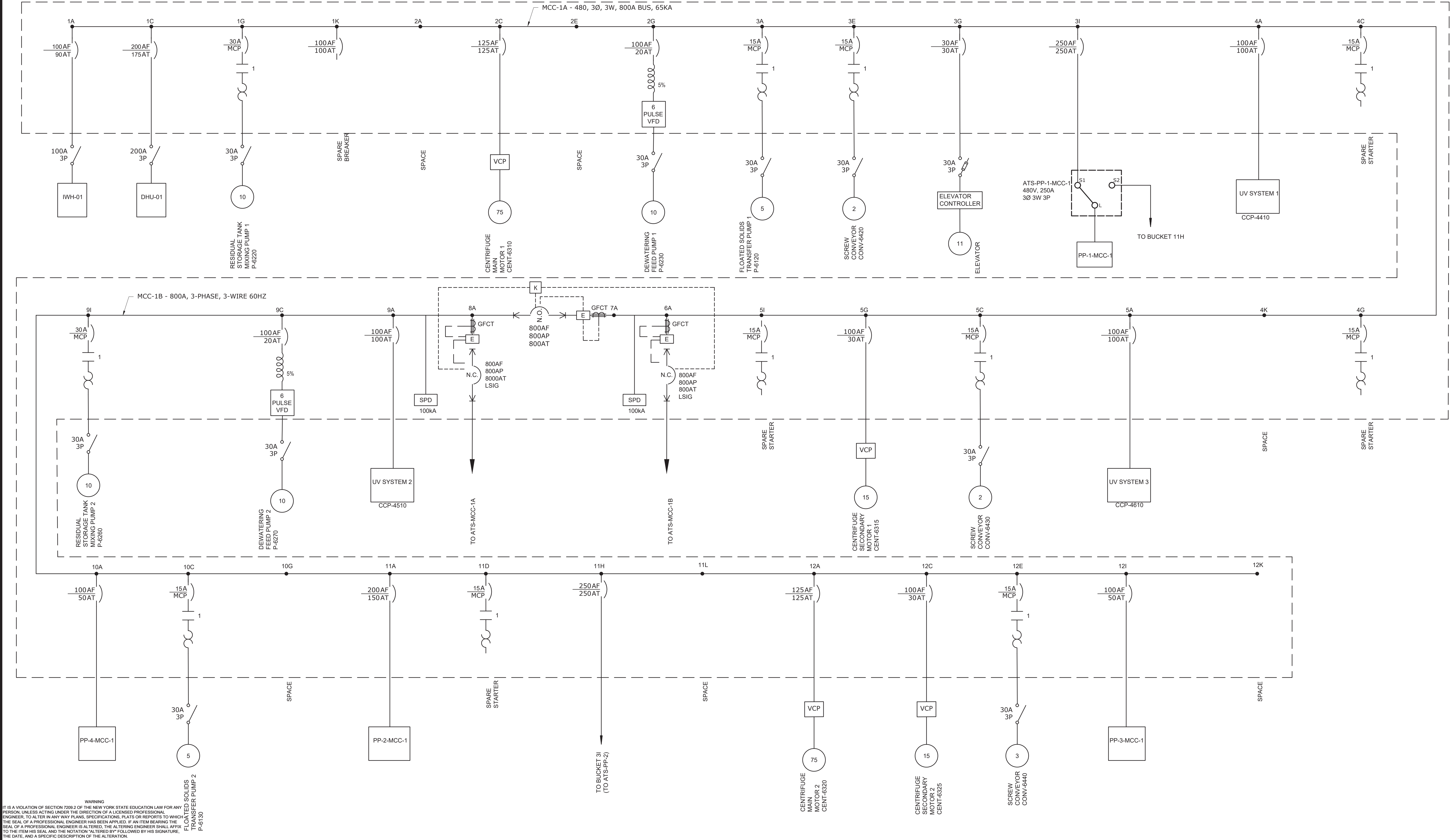
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
OVERALL SINGLE LINE DIAGRAM

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-003

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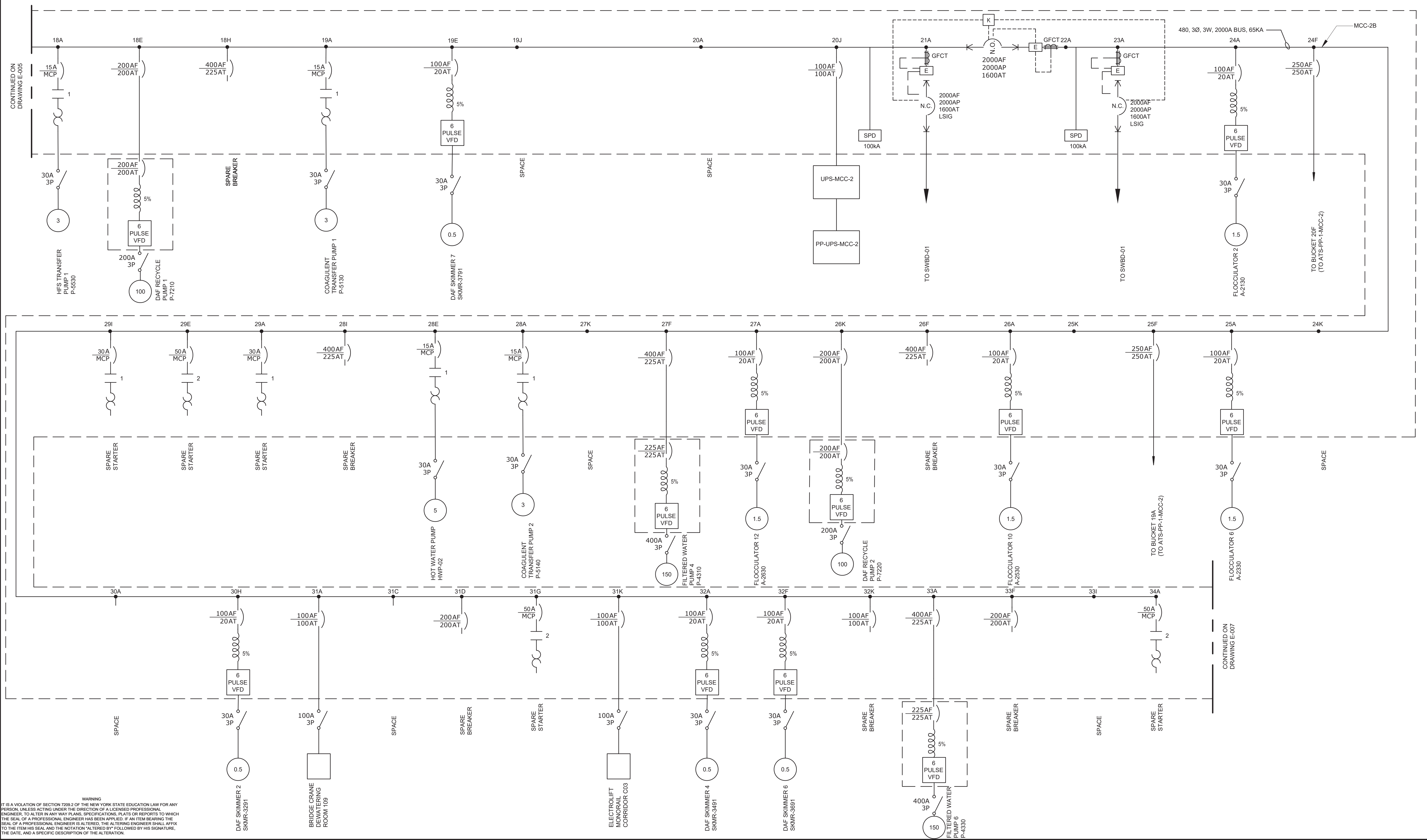



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BID SET

RYE LAKE WATER FILTRATION PLANT HARRISON, NY

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-005



				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				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	

BID SET



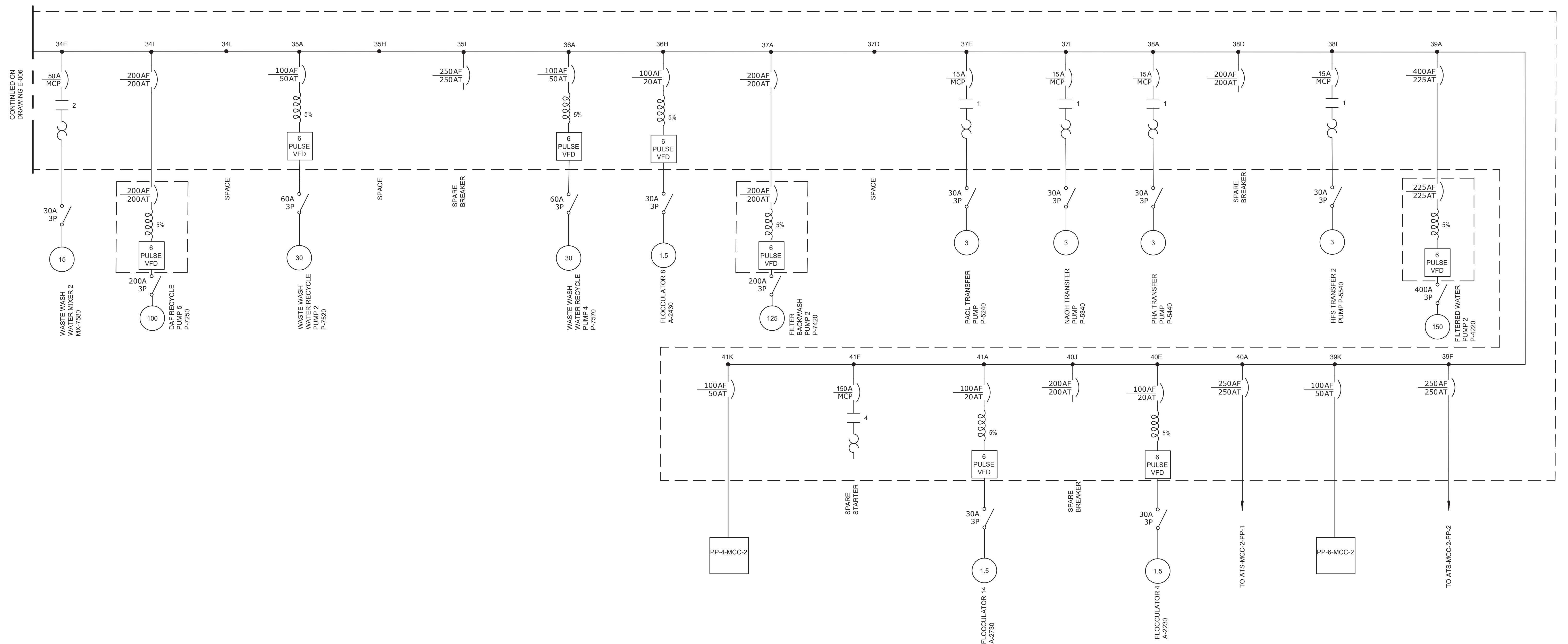
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY


ELECTRICAL
MCC-2 SINGLE LINE DIAGRAM
SHEET 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-006



WARNING

IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

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

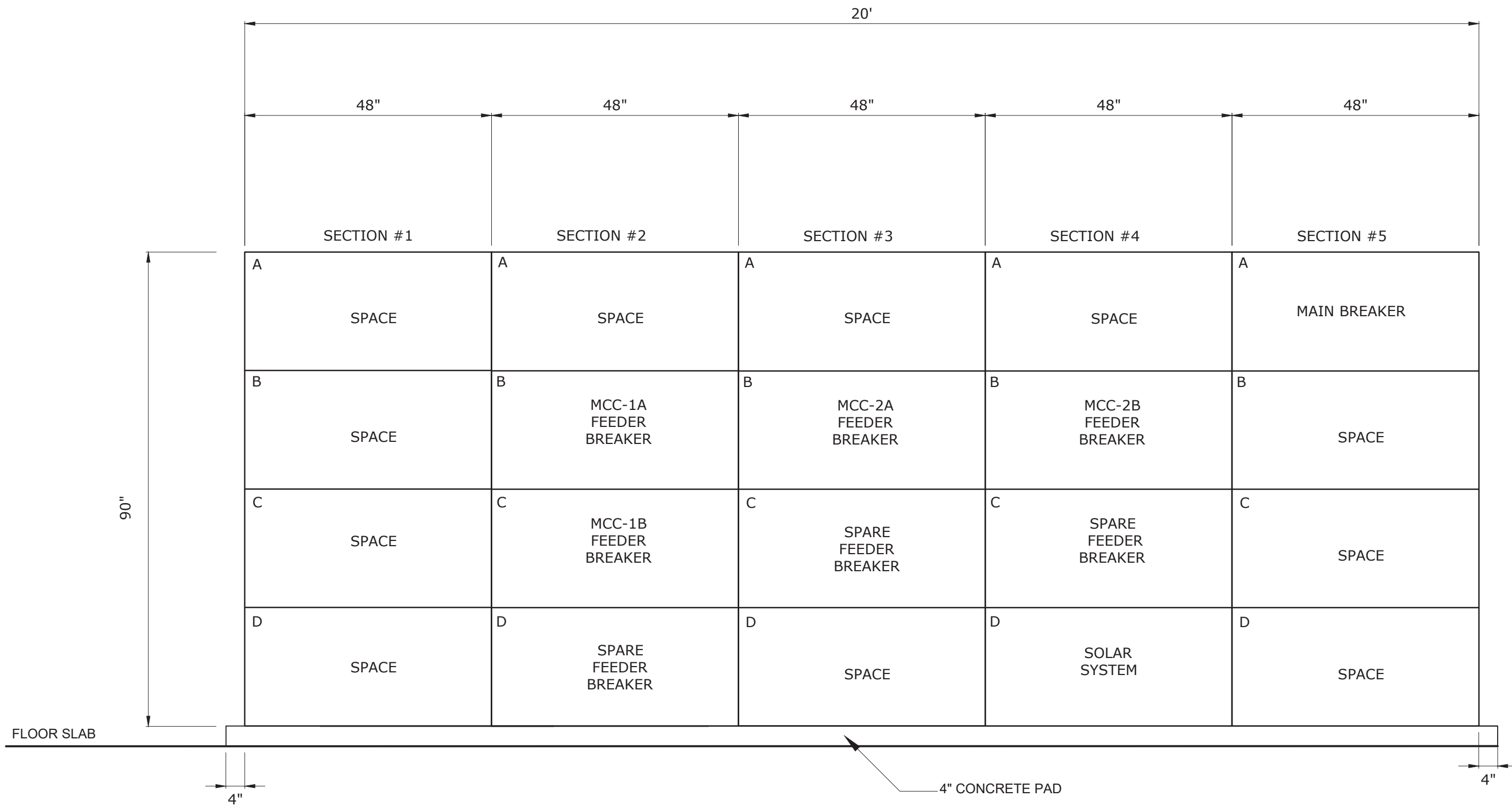
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT HARRISON, NY

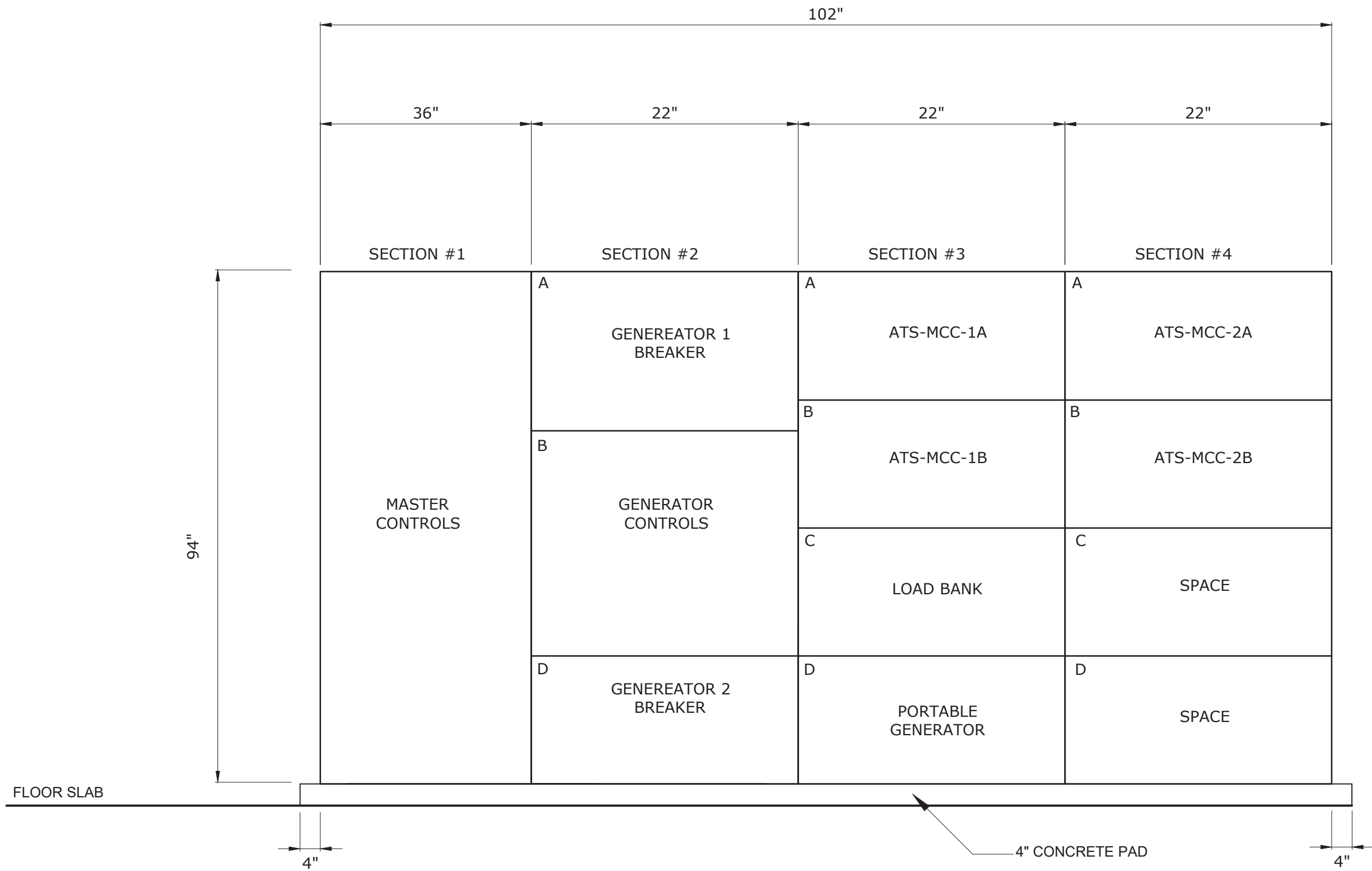
ELECTRICAL
MCC-2 SINGLE LINE DIAGRAM
SHEET 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-007

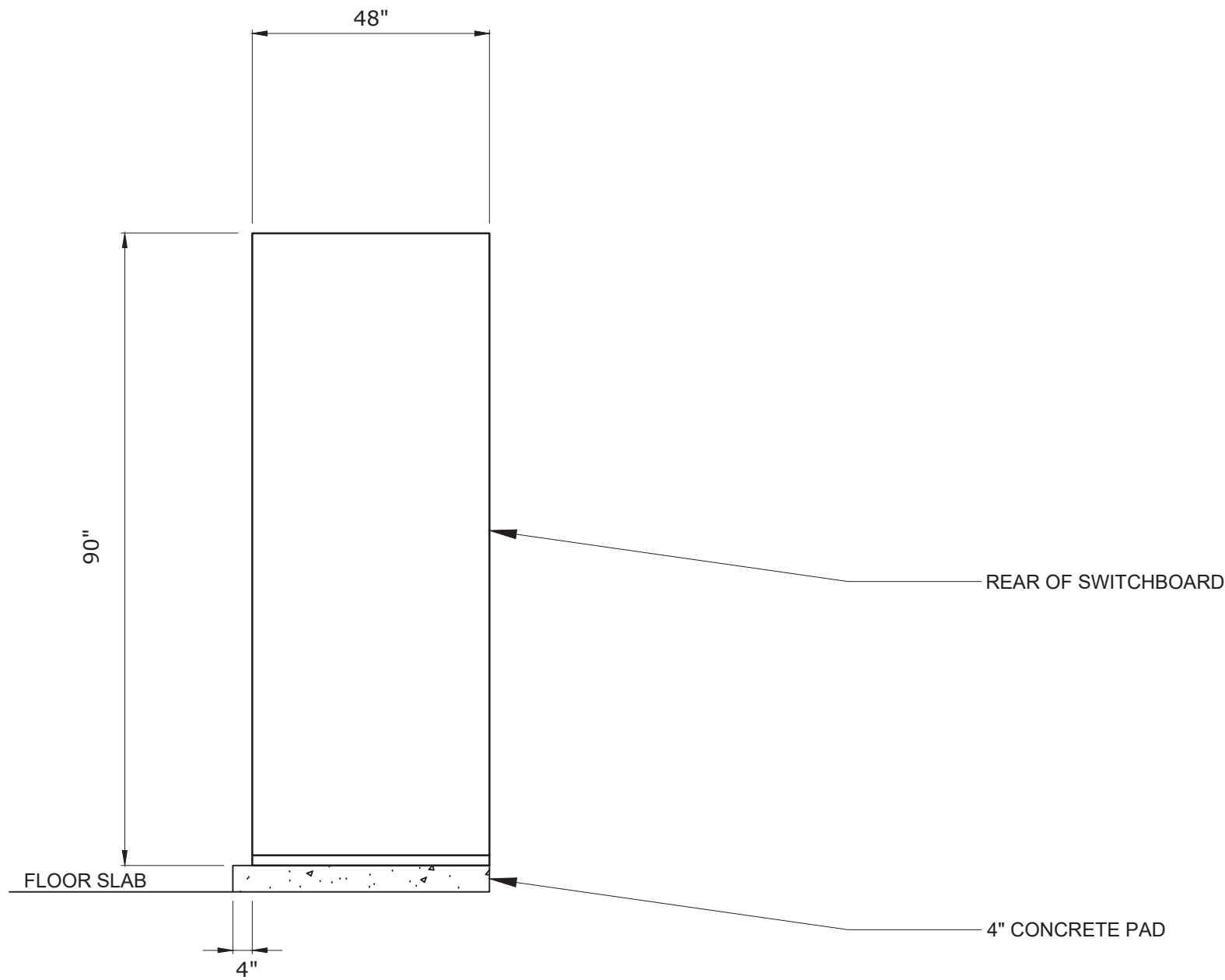
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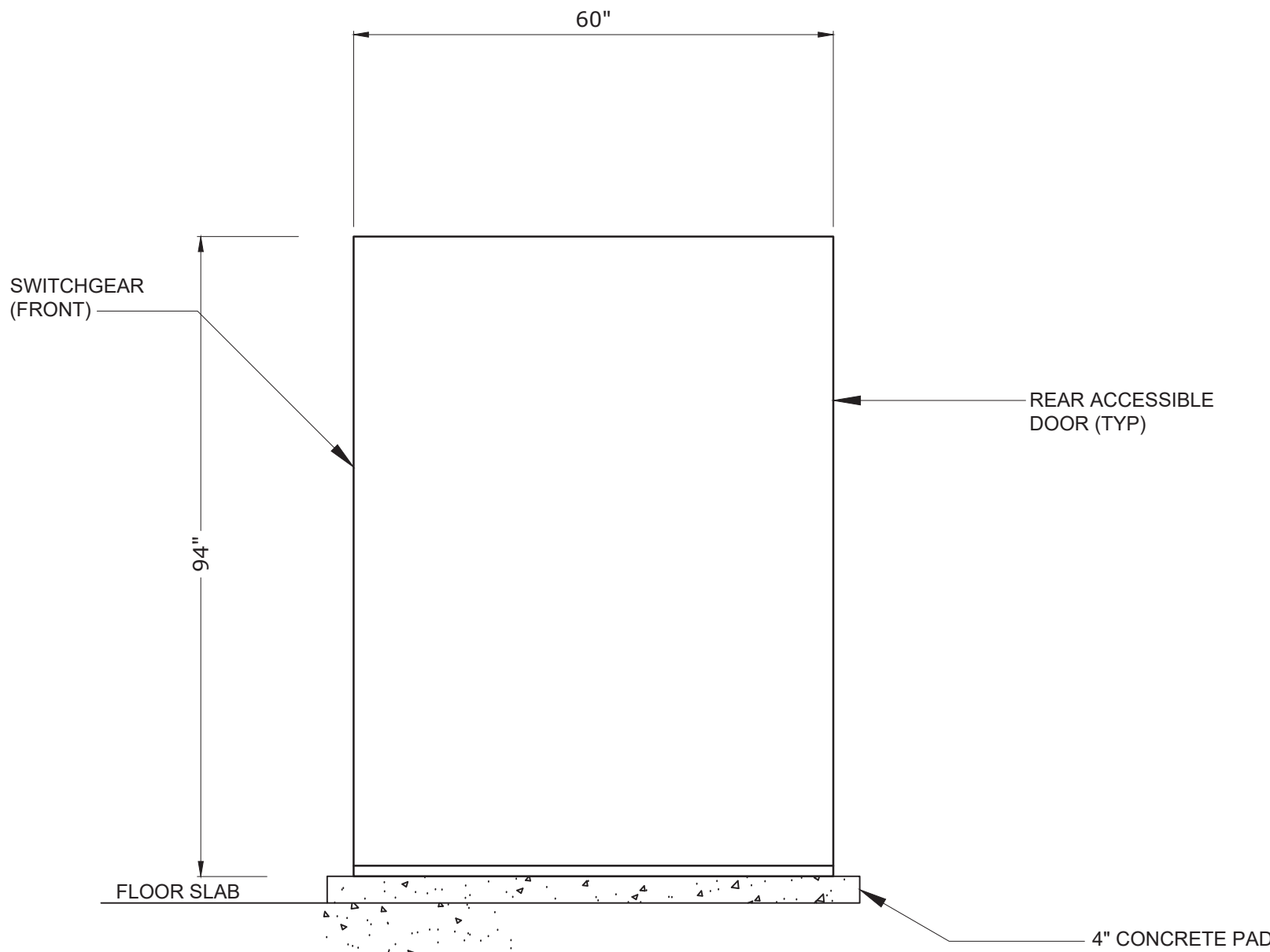
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(NOT TO SCALE)



EGS-1 ELEVATION
(NOT TO SCALE)



SWBD-1 SIDE VIEW)
(NOT TO SCALE)



EGS-1 SIDE VIEW
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REV	ISSUED FOR	DATE	BY		

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
SWITCHBOARD AND GENERATOR
SWITCHGEAR ELEVATIONS

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-008

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REV	ISSUED FOR	DATE	BY		

BID SET



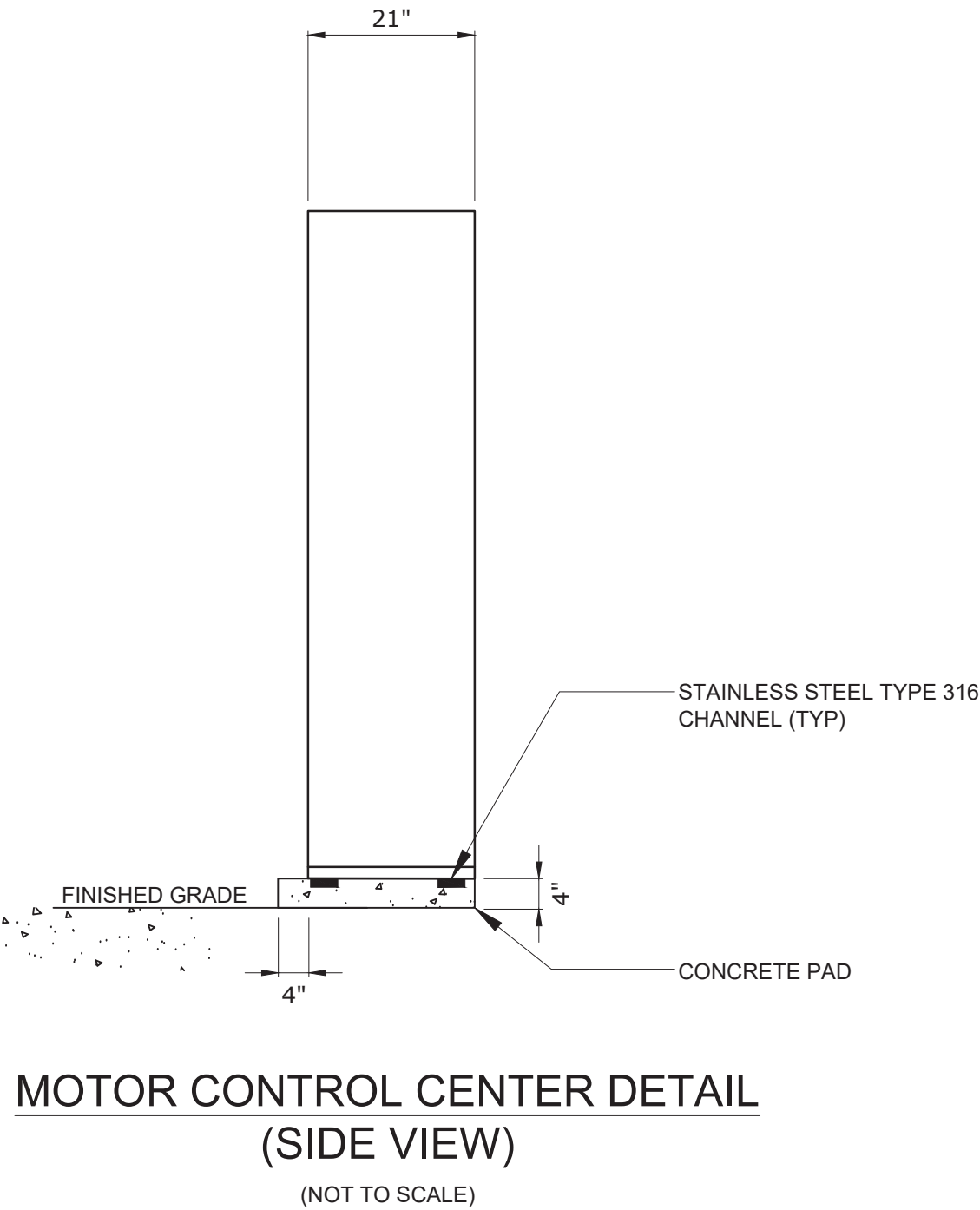
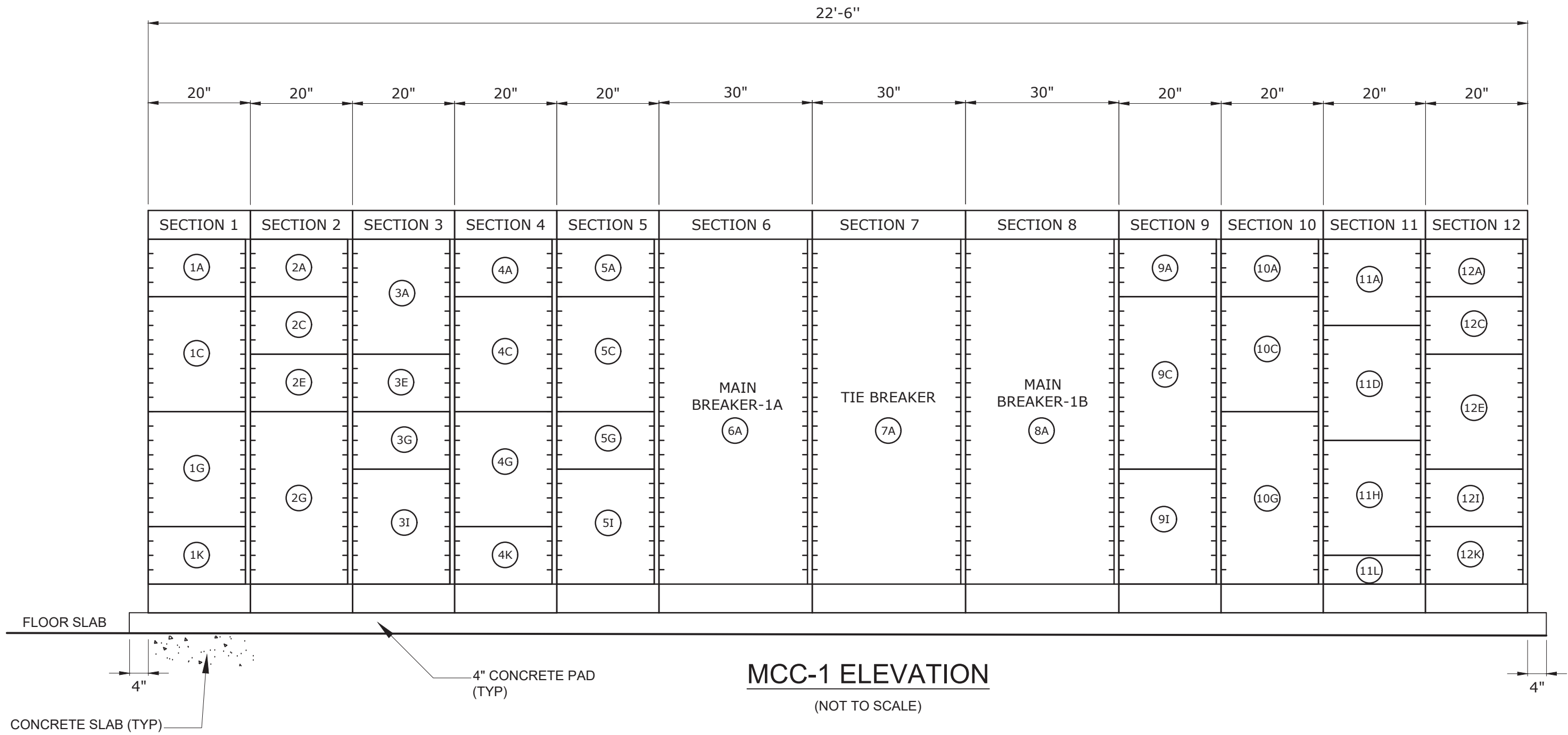
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HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

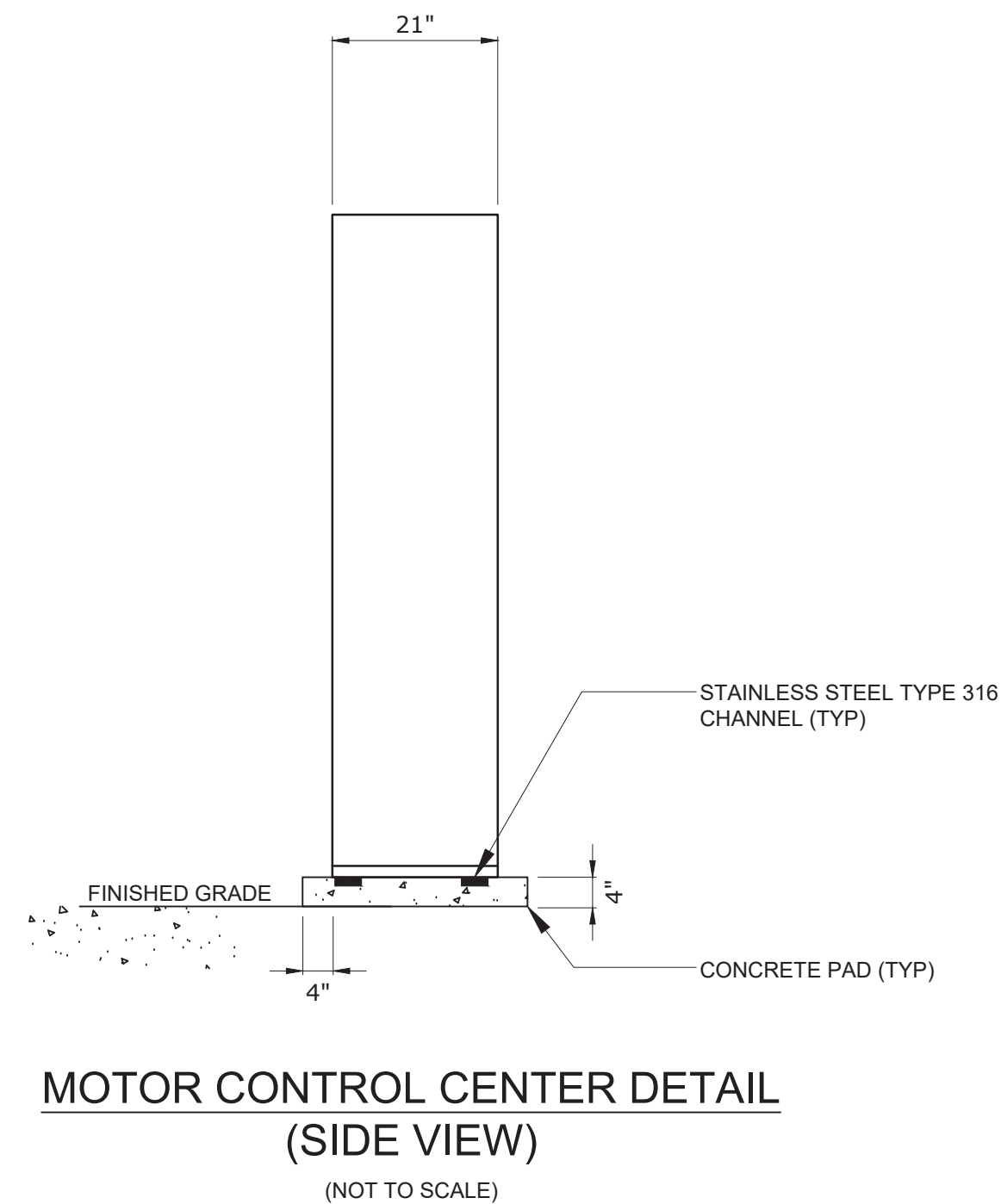
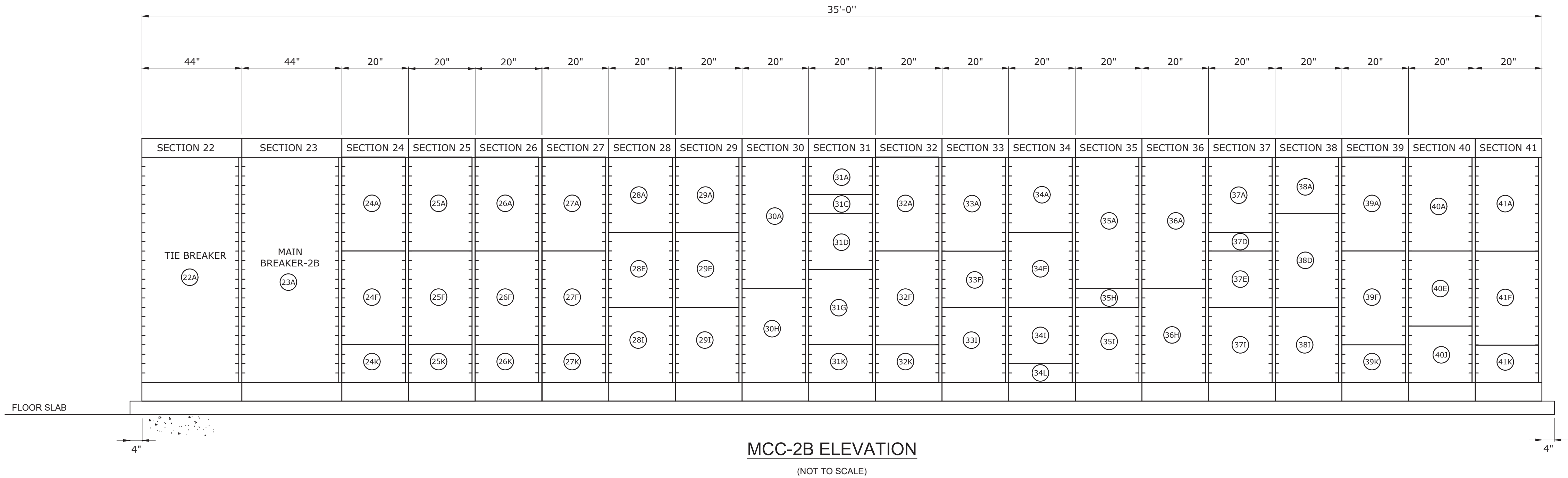
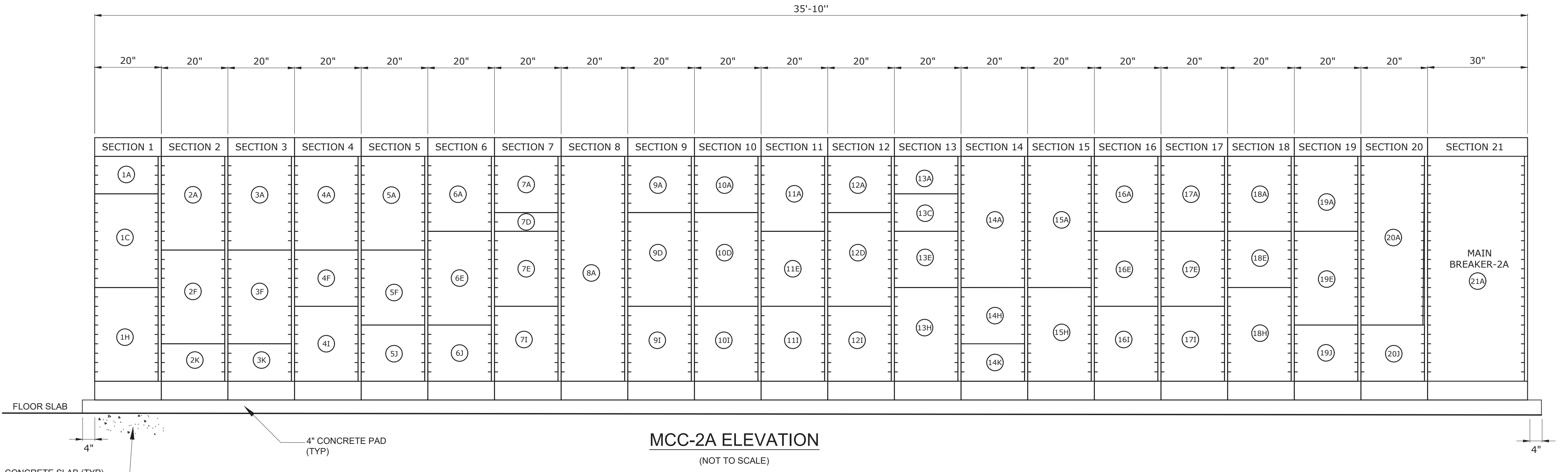
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
MCC-1 ELEVATION

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-009



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REV	ISSUED FOR	DATE	BY		

BID SET



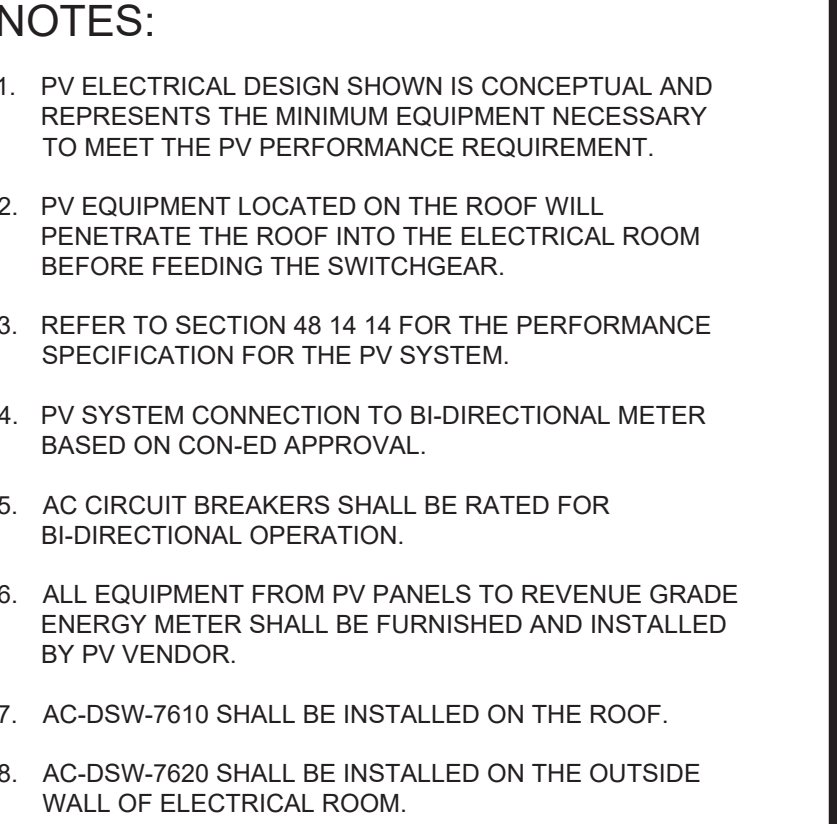
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
MCC-2 ELEVATION

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-010



(TYPICAL SIMPLIFIED ELECTRICAL ONE-LINE DIAGRAM)

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT HARRISON, NY

ELECTRICAL SOLAR SYSTEM RISER DIAGRAM

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-011

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480 VOLTS 3 PHASE, 3 WIRE			POWER PANEL PP-1-MCC-1 MAIN BREAKER 250A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 119																																							
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION																																	
AHU-01	20	3	1	1.00			0.20			2	3	20	FOP-1																																	
			3		1.00		0.20		4																																					
			5			1.00		0.20	6																																					
MOV-7590	20	3	7	0.15			0.20			8	3	20	FOP-2																																	
			9		0.15		0.20		10																																					
			11			0.15		0.20	12																																					
XFRM-LP-1-MCC-1	20	3	13	15.00			5.00			14	3	25	XFRM-UPS-IP-1-MCC-1																																	
			15		15.00		5.00		16																																					
			17			15.00		5.00	18																																					
GATE POWER	20	3	19	1.20			15.00			20	3	70	XFRM-LP-3-MCC-1																																	
			21		1.20		15.00		22																																					
			23			1.20		15.00	24																																					
SPARE	20	3	25	-			0.70			26	3	20	AHU-07																																	
			27		-		0.70		28																																					
			29			-		0.70	30																																					
SPARE	70	3	31	-			-			32	3	20	SPARE																																	
			33		-		-		34																																					
			35			-		-	36																																					
SPARE	20	3	37	-			-			38	3	20	SPARE																																	
			39		-		-		40																																					
			41			-		-	42																																					
<table><tr><td>TOTAL</td><td>17</td><td>17</td><td>17</td><td>21</td><td>21</td><td>21</td><td>TOTAL</td><td rowspan="5">NOTES: 65kAIC 100KA SPD</td></tr><tr><td colspan="3">PHASE TOTAL</td><td colspan="3">TOTAL LOAD (KVA)</td></tr><tr><td>38</td><td>38</td><td>38</td><td colspan="3">115</td></tr><tr><td colspan="3"></td><td colspan="3">TOTAL LOAD (A)</td></tr><tr><td colspan="3"></td><td colspan="3">139</td></tr></table>														TOTAL	17	17	17	21	21	21	TOTAL	NOTES: 65kAIC 100KA SPD	PHASE TOTAL			TOTAL LOAD (KVA)			38	38	38	115						TOTAL LOAD (A)						139		
TOTAL	17	17	17	21	21	21	TOTAL	NOTES: 65kAIC 100KA SPD																																						
PHASE TOTAL			TOTAL LOAD (KVA)																																											
38	38	38	115																																											
			TOTAL LOAD (A)																																											
			139																																											

NOTES:
65kAIC
100kA SPD

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-3-MCC-1 MAIN BREAKER 100A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY (PLATFORM)			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION	
MOV-3160	20	3	1	0.20			2	3	20	MOV-3180	
			3		0.20		4				
			5			0.20	6				
MOV-3260	20	3	7	0.20			8	3	20	MOV-3280	
			9		0.20		10				
			11			0.20	12				
MOV-3360	20	3	13	0.20			14	3	20	MOV-3380	
			15		0.20		16				
			17			0.20	18				
MOV-3150	20	3	19	0.20			20	3	20	MOV-3170	
			21		0.20		22				
			23			0.20	24				
MOV-3250	20	3	25	0.20			26	3	20	MOV-3270	
			27		0.20		28				
			29			0.20	30				
MOV-3350	20	3	31	0.20			32	3	20	SPARE	
			33		0.20		34				
			35			0.20	36				
SPARE	20	3	37	-			38	3	20	SPARE	
			39		-		40				
			41			-	42				
			TOTAL	1	1	1				NOTES: 65kAIC 100KA SPD	
			PHASE TOTAL								
			2	2	2						

NOTES:
65kAIC
100kA SPD

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-2-MCC-1 MAIN BREAKER 150A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: DEWATERING ROOM			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION	
LCP-6010	40	3	1	7.00			2	3	50	XFRM-LP2-MCC1	
			3		7.00		4				
			5			7.00	6				
SLG-6450	20	3	7	0.33			8	3	20	ROLL-UP DOOR (109-2)	
			9		0.33		10				
			11			0.33	12				
SLG-6460	20	3	13	0.33			14	3	20	SLG-4250	
			15		0.33		16				
			17			0.33	18				
SLG-6470	20	3	19	0.33			20	3	25	LCP-7700	
			21		0.33		22				
			23			0.33	24				
SPARE	20	3	25	-			26	3	20	ROLL-UP DOOR (109-1)	
			27		-		28				
			29			-	30				
SPARE	20	3	31	-			32	3	20	SPARE	
			33		-		34				
			35			-	36				
SPARE	20	3	37	-			38	3	20	SPARE	
			39		-		40				
			41			-	42				
TOTAL			8	8	8	16	16	16	TOTAL	NOTES: 65kAIC 100kA SPD	
			PHASE TOTAL			TOTAL LOAD (KVA)					
			24	24	24	72					
						TOTAL LOAD (A)					
						87					

NOTES:
65kAIC
100kA SPD

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-4-MCC-1 MAIN BREAKER 50A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 119					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
MOV-1901	20	3	1	1.00			1.00			2	3	20	MOV-1902
			3			1.00			4				
			5					1.00	6				
SPARE	20	3	7	-			-			8	3	20	SPARE
			9			-			10				
			11					-	12				
SPARE	20	3	13	-			-			14	3	20	SPARE
			15			-			16				
			17					-	18				
				TOTAL	1	1	1	1	TOTAL	NOTES: 65kAIC 100KA SPD			
				PHASE TOTAL			TOTAL LOAD (KVA)						
				2			6						
							TOTAL LOAD (A)						
							7						

NOTES:
65kAIC
100kA SPD

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-1-MCC-2 MAIN BREAKER 250A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 203							
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION		
				A	B	C	A	B	C						
AHU-02	20	3	1	2.00			10.00			2	3	50	XFMR-LP5-MCC-2		
			3		2.00		10.00		4						
			5			2.00		10.00		6					
AHU-03	30	3	7	6.00			3.00			8	3	60	AHU-08		
			9		6.00			3.00		10					
			11			6.00		3.00		12					
AHU-04	40	3	13	8.00			0.80			14	3	20	AHU-09		
			15		8.00			0.80		16					
			17			8.00			0.80					18	
AHU-05	20	3	19	2.00				10.00			20	3	50	XFMR-LP1-MCC-2	
			21		2.00			10.00			22				
			23			2.00			10.00		24				
MOV-3770	20	3	25	1.00			10.00			26	3	50	XFMR-LP3-MCC-2		
			27		1.00			10.00						28	
			29			1.00			10.00						30
EF-07	20	3	31	2.10			-			32	3	20	SPARE		
			33		2.10			-						34	
			35			2.10			-					36	
SPARE	20	3	37	-			-			38	3	20	SPARE		
			39		-			-						40	
			41			-			-					42	
TOTAL				21	21	21	34				34	34	TOTAL		NOTES: 65kA IC 100kA SPD
PHASE TOTAL						TOTAL LOAD (KVA)									
55						165									
						TOTAL LOAD (A)									
						198									

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PLOT DATE: 4/15/2025 3:41 PM BY: APENAI

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-2-MCC-2 MAIN BREAKER 250A 3P						TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 203									
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION						
				A	B	C	A	B	C										
AHU-06	20	3	1	0.70			1.00			2	3	15	MOV-3370						
			3		0.70			1.00		4									
			5			0.70			1.00	6									
			7	6.00					1.00	8									
ACCU-07	25	3	9		6.00			1.00		10	3	20	MOV-3470						
			11			6.00				1.00				12					
			13	-				1.00		14									
			15	-	-			1.00		16									
SPARE	50	3	17			-			1.00	18	3	20	MOV-3570						
			19	4.50						20									
			21		4.50			1.00		22									
			23			4.50			1.00	24									
ACCU-05	25	3	25	1.00			-	-	-	26	3	20	MOV-3670						
			27		1.00					28									
			29			1.00				30									
			31	0.70			10.00			32									
MOV-3680	20	3	33		0.70			10.00		34	3	30	SPARE						
			35			0.70				10.00				36					
			37	-			-							38					
			39		-			-						40					
MOV-3780	15	3	41			-			-	42	3	20	SPARE						
			33		0.70									34					
			35			0.70								36					
			37	-			-							38					
SPARE	20	3	39		-			-		40	3	20	SPARE						
			41			-								42					
							TOTAL	13	13	13				14	14	14	TOTAL		
							PHASE TOTAL			TOTAL LOAD (KVA)									
				27	27	27	81												
							TOTAL LOAD (A)												
							97												
													NOTES:						
													65kAIC						
													100kA SPD						

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-4-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY PLATFORM																																							
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION																																		
				A	B	C	A	B	C																																						
MOV-3460	20	3	1	0.20			0.20			2	3	20	MOV-3450																																		
			3		0.20			0.20		4																																					
			5			0.20			0.20	6																																					
			7	0.20				0.20		8																																					
MOV-3560	20	3	9		0.20			0.20		10	3	20	MOV-3550																																		
			11			0.20			0.20	12																																					
			13	0.20				0.20		14																																					
			15		0.20			0.20		16																																					
MOV-3760	20	3	17			0.20			0.20	18	3	20	MOV-3650																																		
			19	0.20				0.20		20																																					
			21		0.20				0.20	22																																					
			23			0.20			0.20	24																																					
MOV-3860	20	3	25	0.20					0.20	26	3	20	MOV-7450																																		
			27		0.20				0.20	28																																					
			29			0.20				30																																					
			31	0.20			-			32																																					
MOV-3480	20	3	33		0.20			-		34	3	20	SPARE																																		
			35			0.20			-	36																																					
			37	-			-			38																																					
			39		-		-			40																																					
SPARE	20	3	41			-			-	42	3	20	SPARE																																		
													<table><tr><td>TOTAL</td><td>1</td><td>1</td><td>1</td></tr><tr><td colspan="4">PHASE TOTAL</td></tr><tr><td>2</td><td>2</td><td>2</td><td></td></tr></table>	TOTAL	1	1	1	PHASE TOTAL				2	2	2		<table><tr><td>1</td><td>1</td><td>1</td><td>TOTAL</td></tr><tr><td colspan="4">TOTAL LOAD (KVA)</td></tr><tr><td colspan="4">7</td></tr><tr><td colspan="4">TOTAL LOAD (A)</td></tr><tr><td colspan="4">8</td></tr></table>	1	1	1	TOTAL	TOTAL LOAD (KVA)				7				TOTAL LOAD (A)				8				<div>NOTES:</div> <div>65kAIC</div> <div>100kA SPD</div>
TOTAL	1	1	1																																												
PHASE TOTAL																																															
2	2	2																																													
1	1	1	TOTAL																																												
TOTAL LOAD (KVA)																																															
7																																															
TOTAL LOAD (A)																																															
8																																															

480 VOLTS 3 PHASE, 3 WIRE				POWER PANEL PP-6-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY PLATFORM						
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION	
				A	B	C	A	B	C					
MOV-4240	20	3	1	0.20			0.20			2	3	20	MOV-7440	
			3		0.20			0.20		4				
			5			0.20			0.20					6
			MOV-4340	20	3	7	0.20			0.30				8
9		0.20						0.30		10				
11						0.20			0.30			12		
SPARE	20	3				13	-			-				14
			15			-		-		16				
			17				-		-	18				
			SPARE	20	3	19	-			-				20
21						-		-		22				
23						-		-		24				
SPARE	20	3				25	-			-			26	3
			27			-		-		28				
			29			-		-		30				
			SPARE	20	3	31	-			-			32	3
33						-		-		34				
35						-		-		36				
SPARE	20	3				37	-			-			38	3
			39			-		-		40				
			41			-		-		42				
			TOTAL				0	0	0	1	1	1	TOTAL	
PHASE TOTAL				TOTAL LOAD (KVA)										
1				3										
				TOTAL LOAD (A)										
				3										

WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				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	

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WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
PANEL BOARD SCHEDULES - SHEET 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-014

208/120 VOLTS 3 PHASE, 4 WIRE				LP-1-MCC-1 MAIN BREAKER 150A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 119				
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION		
				A	B	C						
SPARE	20	1	1	-				1	20	FIRE SPRINKLER RISER AND STAIR (SA) - LTG		
MOV-1710	20	1	3		0.4		1.2	4	1	20	FIRE SPRINKLER RISER AND STAIR (SA) - RECEPTACLES	
P-1810	20	1	5			0.3		6	1	20	RAW WATER PIPING - LTG AND RECEPTACLES	
P-1820	20	1	7	0.3			1.2	8	1	20	STATIC MIXER AND OVERFLOW - LTG AND RECEPTACLES	
P-1830	20	1	9		0.3		2.8	10	1	20	CORRIDOR (C01) LTG AND RECEPTACLES - 3	
P-1840	20	1	11			0.3		12	1	20	OUTDOOR LTG (SOUTH WEST) GATE	
P-1910	20	1	13	0.3			1.2	14	1	20	OUTDOOR LTG (SOUTH WEST)	
ELEC. ROOM 1 LTG 1	20	1	15		1.2		1.2	16	1	20	STAIR (SB) - LTG	
ELEC. ROOM 1 LTG 2	20	1	17			1.2		18	1	20	STAIR (SB) - RECEPTACLES	
ELEC. ROOM RECEPTACLES 1	20	1	19	1.2			1.0	20	1	20	P-1850	
ELEC. ROOM RECEPTACLES 2	20	1	21		1.2		1.0	22	1	20	P-1860	
MENS BATHROOM LTG	20	1	23			1.2		24	1	20	VESTIBULE , LOBBY AND CONF. ROOM - RECEPTACLES - 2	
MENS BATHROOM RECEPTACLES	20	1	25	1.2			2.9	26	2	30	EUH-01	
WOMENS BATHROOM LTG	20	1	27		1.2		2.9	28				
WOMENS BATHROOM RECEPTACLES	20	1	29			1.2		30	2	30	EUH-02	
WOMENS LOCKER ROOM - LTG AND RECEPTACLES	20	1	31	1.2			2.9	32				
MENS LOCKER ROOM AND MAINT. CLOSET- LTG	20	1	33		1.2		0.1	34	1	20	EXIT SIGNS	
MENS LOCKER ROOM AND MAINT. CLOSET- RECEPTACLES	20	1	35			1.2		36	1	20	COPY ROOM 209 & CHIEF'S OFFICE 210 RECEPTACLES	
VESTIBULE , LOBBY AND CONF. ROOM - LTG	20	1	37	1.2			-	38	1	20	SPARE	
VESTIBULE , LOBBY AND CONF. ROOM - RECEPTACLES - 1	20	1	39		1.2		-	40	1	20	SPARE	
ELEV. LTG	20	1	41			1.2		42	1	20	SPARE	
				TOTAL			3	4	4	8 9 9 TOTAL		
							PHASE TOTAL			TOTAL LOAD (KVA)		
							11 13 13			37		
										TOTAL LOAD (A)		
										103		
										NOTES: 22KAIC 100KA SPD		

208/120 VOLTS 3 PHASE, 4 WIRE				LP-3-MCC-1 MAIN BREAKER 100A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: CORRIDOR (SECOND FLOOR)					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
MAINT. CLOSET, WC (212 & 213) - LTG & RECEPTACLES	20	1	1	1.2			1.2			2	1	20	FLOCCUTLATOR & SKIMMER AREA - RECEPTACLES - 1
OPEN OFFICE (214) - LTG - 1	20	1	3		1.2			1.2		4	1	20	FLOCCUTLATOR & SKIMMER AREA - RECEPTACLES - 2
OPEN OFFICE (214) - LTG - 2	20	1	5			1.2			1.4	6	1	20	EF-06, EF-08
OPEN OFFICE (214) - RECEPTACLES - 1	20	1	7	1.2						8	1	20	MOV-3100
OPEN OFFICE (214) - RECEPTACLES - 2	20	1	9		1.2			0.4		10	1	20	MOV-3110
VESTIBULE (210) - LTG	20	1	11			1.2		0.4		12	1	20	MOV-3120
VESTIBULE (210) - RECEPTACLES	20	1	13	1.2		-				14	1	20	MOV-3130
ELEV. CONTROL ROOM - LTG & RECEPTACLES	20	1	15	-	1.2			0.4		16	1	20	MOV-3210
SUPPLY ROOM & CHIEF OFFICE (209 & 210) - LTG & RECEPTACLES	20	1	17			1.2		0.4		18	1	20	MOV-3220
HVAC ROOM (215) - LTG - 1	20	1	19	1.2				0.4		20	1	20	MOV-3130
HVAC ROOM (215) - LTG - 2	20	1	21		1.2			0.4		22	1	20	MOV-3230
HVAC ROOM (215) - RECEPTACLES - 1	20	1	23			1.2			0.4	24	1	20	MOV-3140
HVAC ROOM (215) - RECEPTACLES - 2	20	1	25	1.2				0.4		26	1	20	MOV-3240
FLOCCUTLATOR & SKIMMER AREA - LTG - 1	20	1	27		2.0			1.2		28	1	20	CONTROL AND SCADA ROOM - LTG
FLOCCUTLATOR & SKIMMER AREA - LTG - 2	20	1	29			2.0			1.2	30	1	20	CONTROL ROOM - RECEPTACLES
DWH-01	20	3	31	1.7			1.2			32	1	20	CONTROL ROOM - RECEPTACLES
			33		1.7			0.3		34	1	20	GMU-01
			35			1.7		0.3		36	1	20	ET-01
PV-01	20	1	37	0.7					0.3	38	1	20	HWB-01
PV-02	20	1	39		0.7				0.3	40	1	20	HWB-02
RCP-02	20	1	41			0.2		1.2		42	1	20	MICROWAVE
TOTAL				8	9	9	4	4	5	TOTAL		NOTES: 22kAIC 100kA SPD	
				PHASE TOTAL			TOTAL LOAD (KVA)						
				13	13	14	40						
							TOTAL LOAD (A)						
							111						

208/120 VOLTS 3 PHASE, 4 WIRE				LP-1-MCC-2 MAIN BREAKER 175A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 203						
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION	
				A	B	C	A	B	C					
ACCU-04	25	3	1	1.2			1.2			2	1	20	HVAC ROOM (201) - LTG	
			3		1.2		1.2		4	1	20	HVAC ROOM (201) - RECEPTACLES		
			5			1.2		2.4	6	1	20	CORRIDOR (C03) - LTG		
ACCU-06	25	3	7	1.2			-			8	1	20	SPARE	
			9		1.2		1.2		10	2	30	ACCU-01		
			11			1.2		1.2	12					
ACCU-03	30	2	13	1.2			1.2			14	2	30	ACCU-02	
			15		1.2		1.2		16					
SPARE	20	1	17			-			-	18	1	20	SPARE	
SPARE	20	1	19	-			-			20	1	20	SPARE	
SPARE	20	1	21		-		-			22	1	20	SPARE	
ELECTRICAL ROOM - LTG 1	20	1	23			1.2			-	24	1	20	SPARE	
ELECTRICAL ROOM - LTG 2	20	1	25	1.2			-			26	1	20	SPARE	
ELECTRICAL ROOM - RECEPTACLES 1	20	1	27		1.2		-			28	1	20	SPARE	
ELECTRICAL ROOM - RECEPTACLES 2	20	1	29			1.2			2.94	30	2	20	EUH-03	
PROCESS ANALYSIS ROOM - LTG	20	1	31	1.2			2.94		32					
PROCESS ANALYSIS ROOM - RECEPTACLES	20	1	33		1.2			2.0		34	1	20	CORRIDOR (C03) - RECEPTACLES	
AIR SCOUR - LTG	20	1	35			1.2			2.4	36	1	20	COORIDOR (C04) - LTG	
AIR SCOUR - RECEPTACLES	20	1	37	1.2			1.2			38	1	20	COORIDOR (C04) - RECEPTACLES	
STOR ROOM - LTG AND RECEPTACLES	20	1	39		1.2			2.9		40	2	20	EUH-04	
EXIT SIGNS	20	1	41			0.1			2.90	42				
TOTAL				7	7	6	7			9	12	TOTAL		NOTES: 22kA IC 100kA SPD
				PHASE TOTAL			TOTAL LOAD (KVA)							
				14	16	18	47							
							TOTAL LOAD (A)							
							132							

File: C:\USERS\APEN\AID\CA\CD\CD\HAZEN AND SAWYER\0388-000_RYE_LAKE_FILTERATION\PROJECT FILES\PROJECTWISE\ELECTRICAL\E-015-BID Saved by APENA Save date: 4/15/2025 2:52 PM
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208/120 VOLTS 3 PHASE, 4 WIRE				LP-2-MCC-2 MAIN BREAKER 100A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: CORRIDOR (C01)			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP		DESCRIPTION
				A	B	C					
MOV-3490	20	1	1	0.5			2	1	20		VCP-5360
MOV-3590	20	1	3		0.5		4	1	20		VCP-5370
MOV-3690	20	1	5			0.5	6	1	20		VCP-5380
MOV-3790	20	1	7	0.5			8	1	20		P-5390
SPARE	20	1	9		-		10	1	20		P-5400
SPARE	20	1	11			-	12	1	20		P-5410
EF-01	20	3	13	0.1			14	1	20		VCP-5460
			15		0.1		16	1	20		VCP-5470
			17			0.1	18	1	20		Portable Davit Crane Motor 1 (Wastewater Tanks)
EF-02	20	3	19	0.1			20	1	20		Portable Davit Crane Motor 2 (Wastewater Tanks)
			21		0.1		22	1	20		FLUORIDE ROOM - LTG & RECEPTACLES
			23			0.1	24	1	20		OUTDOOR LTG (NORTH EAST)
VCP-5160	20	1	25	0.5			26	1	20		SODIUM HYPOCHLORITE ROOM - LTG & RECEPTACLES
VCP-5560	20	1	27		0.5		28	1	20		COAGULANT - LTG & RECEPTACLES
VCP-5570	20	1	29			0.5	30	1	20		CORROSION INHIBITOR - LIGHTING & RECEPTACLES
P-5580	20	1	31	0.6			32	1	20		EXIT SIGNS
P-5590	20	1	33		0.6		34	1	20		VCP-5170
VCP-5260	20	1	35			0.5	36	1	20		VCP-5290
VCP-5270	20	1	37	0.5			38	1	20		VCP-5390
VCP-5280	20	1	39		0.5		40	1	20		CORRIDOR(C01) - LTG & RECEPTACLES
P-5290	20	1	41			0.6	42	1	20		SPARE
TOTAL				3	2	2	5	7	5	TOTAL	NOTES: 22kAIC 100kA SPD
PHASE TOTAL				8	10	7	TOTAL LOAD (KVA)				
				25					TOTAL LOAD (A)		
				69							

208/120 VOLTS 3 PHASE, 4 WIRE				LP-3-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: FLOCCULATOR AREA			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP		DESCRIPTION
				A	B	C					
MOV-3310	20	1	1	0.4			2	1	20		FLOCCULATOR & SKIMMER AREA - LTG
MOV-3320	20	1	3		0.4		4	1	20		FLOCCULATOR & SKIMMER AREA - RECEPTACLES
MOV-3410	20	1	5			0.4	6	1	20		FLOCCULATOR & SKIMMER AREA - RECEPTACLES
MOV-3420	20	1	7	0.4			8	1	20		OUTDOOR LTG (NORTH WEST)
MOV-3510	20	1	9		0.4		10	1	20		OUTDOOR LTG (NORTH WEST)
MOV-3520	20	1	11			0.4	12	1	20		FLOCCULATOR & SKIMMER AREA - LTG
MOV-3610	20	1	13	0.4			14	1	20		MOV-3710
MOV-3620	20	1	15		0.4		16	1	20		MOV-3720
FLOCCULATOR INSIDE TANK LIGHT	20	1	17			0.1	18	1	20		SPARE
SPARE	20	1	19	-			20	1	20		SPARE
SPARE	20	1	21		-		22	1	20		SPARE
SPARE	20	1	23			-	24	1	20		SPARE
SPARE	20	1	25	-			26	1	20		SPARE
SPARE	20	1	27		-		28	1	20		SPARE
SPARE	20	1	29			-	30	1	20		SPARE
SPARE	20	1	31	-			32	1	20		SPARE
SPARE	20	1	33		-		34	1	20		SPARE
SPARE	20	1	35			-	36	1	20		SPARE
SPARE	20	1	37	-			38	1	20		SPARE
SPARE	20	1	39		-		40	1	20		SPARE
SPARE	20	1	41			-	42	1	20		SPARE
TOTAL				1	1	1	3	3	2	TOTAL	NOTES: 22kAIC 100kA SPD
PHASE TOTAL				4	4	3	TOTAL LOAD (KVA)				
				11					TOTAL LOAD (A)		
				31							

208/120 VOLTS 3 PHASE, 4 WIRE				LP-4-MCC-2 MAIN BREAKER 100A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: FILTER WATER PUMPING ROOM			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP		DESCRIPTION
				A	B	C					
MOV-3190	20	1	1	0.5			2	1	20		SODIUM HYDROXIDE ROOM - RECEPTACLES 1
MOV-3290	20	1	3			0.5	4	1	20		SODIUM HYDROXIDE ROOM - RECEPTACLES 2
MOV-3390	20	1	5			0.5	6	1	20		SODIUM HYDROXIDE ROOM - LTG 1
EF-03	20	3	7	0.2			8	1	20		SODIUM HYDROXIDE ROOM - LTG 2
			9		0.2		10	1	20		PIPE GALLERY EL 406 - LTG-1
			11			0.2	12	1	20		PIPE GALLERY EL 406 - LTG-2
EF-04	20	3	13	0.2			14	1	20		PIPE GALLERY EL 406 - LTG-3
			15		0.2		16	1	20		PIPE GALLERY EL 406 - RECEPTACLES 1
			17			0.2	18	1	20		PIPE GALLERY EL 406 - RECEPTACLES 2
MOV-7351	20	1	19	0.4			20	1	20		PIPE GALLERY EL 406 - RECEPTACLES 3
MOV-7361	20	1	21		0.4		22	1	20		FILTER WATER PUMP ROOM - RECEPTACLES 1
FILTER WATER PUMP ROOM - LTG 1	20	1	23			1.2	24	1	20		FILTER WATER PUMP ROOM - RECEPTACLES 2
FILTER WATER PUMP ROOM - LTG 2	20	1	25	1.2			26	1	20		STAIR (SC) & VESTIBULE (124) - LTG
OUTDOOR LTG. (NORTH EAST SIDE) - 1	20	1	27			1.2	28	1	20		STAIR (SC) & VESTIBULE (124) - RECEPTACLES
OUTDOOR LTG. (NORTH EAST SIDE) - 2	20	1	29			1.2	30	1	20		ROOF LTG & RECEPTACLES
SPARE	20	1	31	-			32	1	20		OUTDOOR LTG. (WEST SIDE)
SPARE	20	1	33		-		34	1	20		EXIT SIGNS FILTERED WATER, SODIUM HYDROXIDE
SPARE	20	1	35			-	36	1	20		SPARE
SPARE	20	1	37	-			38	1	20		SPARE
SPARE	20	1	39		-		40	1	20		SPARE
SPARE	20	1	41			-	42	1	20		SPARE
TOTAL				3	3	3	7	6	6	TOTAL	NOTES: 22kAIC 100kA SPD
PHASE TOTAL				10	9	9	TOTAL LOAD (KVA)				
				28					TOTAL LOAD (A)		
				77							

208/120 VOLTS 3 PHASE, 4 WIRE				LP-5-MCC-2 MAIN BREAKER 100A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY (BASEMENT LEVEL)			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CKT No.	POLE	TRIP		DESCRIPTION
				A	B	C					
SP-01	20	3	1	0.7			2	1	20		SPARE
			3		0.7		4	1	20		SPARE
			5			0.7	6	1	20		SPARE
SP-02	20	3	7	-			8	1	20		SPARE
			9		-		10	1	20		SPARE
			11			-	12	1	20		SPARE
RCP-01	20	1	13	0.1			14	1	20		SPARE
PIPE GALLERY EL 384 - LTG 1	20	1	15		2.0		16	1	20		SPARE
SP-03	20	1	17			-	18	1	20		SPARE
PIPE GALLERY EL 384 - LTG 2	20	1	19	3.2			20	1	20		SPARE
PIPE GALLERY EL 384 - LTG 3	20	1	21		2.0		22	1	20		SPARE
PIPE GALLERY EL 384 - RECEPTACLES 1	20	1	23			2.0	24	1	20		SPARE
PIPE GALLERY EL 384 - RECEPTACLES 2	20	1	25	1.2			26	1	20		SPARE
PIPE GALLERY EL 384 - RECEPTACLES 3	20	1	27		1.2		28	1	20		SPARE
PIPE GALLERY EXIT SIGNS	20	1	29			0.1	30	1	20		SPARE
SPARE	20	1	31	-			32	1	20		SPARE
SPARE	20	1	33		-		34	1	20		SPARE
SPARE	20	1	35			-	36	1	20		SPARE
SPARE	20	1	37	-			38	1	20		SPARE
SPARE	20	1	39		-		40	1	20		SPARE
SPARE	20	1	41			-	42	1	20		SPARE
TOTAL				5	6	3	0	0	0	TOTAL	NOTES: 22kAIC 100kA SPD
PHASE TOTAL				5	6	3	TOTAL LOAD (KVA)				
				14					TOTAL LOAD (A)		
				39							

WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
PANEL BOARD SCHEDULES - SHEET 4

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-015

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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	01/2"1"
REV	ISSUED FOR	DATE	BY		

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
PANEL BOARD SCHEDULES - SHEET 5

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-016

208/120 VOLTS 3 PHASE, 4 WIRE				IP-1-MCC-1 MAIN BREAKER 100A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 119			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CTK No.	POLE	TRIP		DESCRIPTION
				A	B	C					
RIO-21	20	1	1	2.4			2	1			
FIT-1711	20	1	3		0.06		4	1	50		IP2-MCC-1
AIT-1811	20	1	5			0.06	6	1			
AIT-1812	20	1	7	0.06			8	1			
AIT-1813	20	1	9		0.06		10	1	50		IP3-MCC-1
AIT-1821	20	1	11			0.06	12	1			
AIT-1822	20	1	13	0.06			14	1	20		PAGING/TELEPHONE CABINET
AIT-1823	20	1	15		0.06		16	1	20		SPARE
LIT-1901	20	1	17			0.06	18	1	20		SPARE
LIT-1902	20	1	19	0.06			20	1	20		SPARE
AIT-1911	20	1	21		0.06		22	1	20		SPARE
AIT-1912	20	1	23			0.06	24	1	20		SPARE
LIT-2111	20	1	25	0.06			26	1	20		SPARE
LIT-2211	20	1	27		0.06		28	1	20		SPARE
LIT-2311	20	1	29			0.06	30	1	20		SPARE
LIT-2411	20	1	31	0.06			32	1	20		SPARE
LIT-2511	20	1	33		0.06		34	1	20		SPARE
LIT-2611	20	1	35			0.06	36	1	20		SPARE
LIT-2711	20	1	37	0.06			38	1	20		SPARE
RIO-MCC-1	20	1	39		2.4		40	1	20		SPARE
SPARE	20	1	41				42	1	20		SPARE
TOTAL				3	0	0	111010			TOTAL	NOTES: 22kAIC 100kA SPD
				PHASE TOTAL			TOTAL LOAD (KVA)				
							34				
							TOTAL LOAD (A)				
							94				

208/120 VOLTS 3 PHASE, 4 WIRE				IP-2-MCC-1 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: CORRIDOR (C01)			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CTK No.	POLE	TRIP		DESCRIPTION
				A	B	C					
SCADA ROOM - Receptacles	20	1	1	1.0			2	1	20		LIT-6414
RLWTP PLC PANEL	20	1	3		2.40		4	1	20		YSK-6420
FILTER-PLC 1	20	1	5			2.40	6	1	20		YSK-6430
SPARE	20	1	7				8	1	20		LIT-6431
CLIENTS WORK STATION 3	20	1	9		1.80		10	1	20		YSK-6440
SPARE	20	1	11				12	1	20		LIT-6441
CENT-PLC-1	20	1	13	2.40			14	1	20		LAS-5100
CENT-PLC-2	20	1	15		2.40		16	1	20		LAS-5200
LIT-6111	20	1	17			0.06	18	1	20		LAS-5300
LIT-6211	20	1	19	0.1			20	1	20		LAS-5400
LIT-6251	20	1	21		0.1		22	1	20		LAS-5500
FIT-6330	20	1	23			0.06	24	1	20		SPARE
YSK-6410	20	1	25	0.1			26	1	20		SPARE
LIT-6412	20	1	27		0.1		28	1	20		SPARE
LIT-6413	20	1	29			0.06	30	1	20		SPARE
WIT-6312	20	1	31	0.06			32	1	20		SPARE
WIT-6342	20	1	33		0.06		34	1	20		SPARE
SECURITY PANEL	20	1	35			0.10	36	1	20		SPARE
SPARE	20	1	37	-			38	1	20		SPARE
SPARE	20	1	39		-		40	1	20		SPARE
SPARE	20	1	41			-	42	1	20		SPARE
TOTAL				4	7	3	000			TOTAL	NOTES: 22kAIC 100kA SPD
				PHASE TOTAL			TOTAL LOAD (KVA)				
							14				
							TOTAL LOAD (A)				
							39				

208/120 VOLTS 3 PHASE, 4 WIRE				IP-3-MCC-1 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY (PLATFORM AREA)			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CTK No.	POLE	TRIP		DESCRIPTION
				A	B	C					
AIT-3113	20	1	1	0.06			2	1	20		LSH-5300
AIT-3114	20	1	3		0.06		4	1	20		LIT-5311
FIT-3116	20	1	5			0.06	6	1	20		LSHH-5312
FIT-3118	20	1	7	0.06			8	1	20		LIT-5321
AIT-3213	20	1	9		0.06		10	1	20		LSHH-5322
AIT-3214	20	1	11			0.06	12	1	20		LIT-5351
FIT-3216	20	1	13	0.06			14	1	20		SPARE
FIT-3218	20	1	15		0.06		16	1	20		SPARE
RIO-70	20	1	17			2.50	18	1	20		SPARE
SPARE	20	1	19	-			20	1	20		SPARE
SPARE	20	1	21		-		22	1	20		SPARE
SPARE	20	1	23			-	24	1	20		SPARE
TOTAL				0	0	3	000			TOTAL	NOTES: 22kAIC 100 kA SPD
				PHASE TOTAL			TOTAL LOAD (KVA)				
							3				
							TOTAL LOAD (A)				
							9				

208/120 VOLTS 3 PHASE, 4 WIRE				IP-1-MCC-2 MAIN BREAKER 100A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 203			
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			CTK No.	POLE	TRIP		DESCRIPTION
				A	B	C					
RIO-MCC-2	20	1	1	1.0			2				
IP-3-MCC-2	50	3	3	2.0			4	3	20		SPARE
			5		2.0		6				
			7			2.0	8				
IP-4-MCC-2	50	3	9	2.0			10	3	50		SPARE
			11		2.0		12				
			13			2.0	14				
IP-6-MCC-2	50	3	15	2.0			16	1	20		MOV-3330
			17		2.0		18				
			19	-		2.0	20				
SPARE	20	1	21		-		22	1	20		MOV-3730
SPARE	20	1	23			-	24	1	20		MOV-3340
SPARE	20	1	25	-			26	1	20		MOV-3440
SPARE	20	1	27		-		28	1	20		MOV-3540
SPARE	20	1	29			-	30	1	20		MOV-3640
TOTAL				7	6	6	111			TOTAL	NOTES: 22kAIC 100kA SPD
				PHASE TOTAL			TOTAL LOAD (KVA)				
							23				
							TOTAL LOAD (A)				
							63				

208/120 VOLTS 3 PHASE, 4 WIRE				IP-2-MCC-2 MAIN BREAKER 100A 3P				TYPE: NEMA 1 MOUNT: SURFACE LOCATION: ELECTRICAL ROOM 203					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
SPARE	20	1	1	-			-			2	3	50	SPARE
SPARE	50	3	3	-	-		-	-		4			
			5				-		6				
			7	-			-		8				
IP-5-MCC-2	50	3	9		2.0		-			10	3	50	SPARE
			11			2.0	-		12				
			13	2.0			0.4		14	1			
IP-7-MCC-2	50	3	15		2.0		0.4			16	1	20	MOV-7120
			17			2.0	0.4		18	1	20	MOV-5297	
			19	2.0			0.4		20	1	20	MOV-5291	
SPARE	20	1	21		-		0.4			22	1	20	MOV-5292
SPARE	20	1	23			-		0.4		24	1	20	MOV-5293
SPARE	20	1	25	-			0.4			26	1	20	MOV-5294
SPARE	20	1	27		-		0.4			28	1	20	MOV-5295
SPARE	20	1	29			-		0.4		30	1	20	MOV-5296
				TOTAL	4	4	4	1	1	1	TOTAL	NOTES:	
				PHASE TOTAL			TOTAL LOAD (KVA)			22kAIC			
				5	5	5	16			100 kA SPD			
							TOTAL LOAD (A)						
							43						

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208/120 VOLTS 3 PHASE, 4 WIRE				IP-3-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: CORRIDOR (C02-1)					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
RIO-22	20	1	1	2.40			0.3			2	1	20	PREACTION SPRINKLER SYSTEM
RIO-31	20	1	3		2.40			0.2		4	1	20	CLEAN AGENT SYSTEM
RIO-32	20	1	5			2.40			1.5	6	2	20	WH-03 RM-205
AIT-3312	20	1	7	0.06						8			
AIT-3612	20	1	9		0.06			2.4		10	1	20	RLWTP PLC Panel
SPARE	20	1	11			-			-	12	1	20	SPARE
SPARE	20	1	13	-			-			14	1	20	SPARE
SPARE	20	1	15		-		-			16	1	20	SPARE
SPARE	20	1	17			-			-	18	1	20	SPARE
SPARE	20	1	19	-			-			20	1	20	SPARE
SPARE	20	1	21		-		-			22	1	20	SPARE
SECURITY PANEL	20	1	23			0.5			-	24	1	20	SPARE

TOTAL	2	2	3	2	3	2	TOTAL	NOTES:
PHASE TOTAL			TOTAL LOAD (KVA)				22kAIC	
4	5	4	14				100KA SPD	
			TOTAL LOAD (A)					
			38					

208/120 VOLTS 3 PHASE, 4 WIRE				IP-5-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY (PLATFORM AREA)					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
AIT-3613	20	1	1	0.06			-			2	1	20	SPARE
AIT-3614	20	1	3		0.06		-			4	1	20	SPARE
FIT-3616	20	1	5			0.06			-	6	1	20	SPARE
FIT-3618	20	1	7	0.06			-			8	1	20	SPARE
AIT-3713	20	1	9		0.06		-			10	1	20	SPARE
AIT-3714	20	1	11			0.06			-	12	1	20	SPARE
FIT-3716	20	1	13	0.06			-			14	1	20	SPARE
FIT-3718	20	1	15		0.06		-			16	1	20	SPARE
LIT-7511	20	1	17			0.06			-	18	1	20	SPARE
LIT-7551	20	1	19	0.06			-			20	1	20	SPARE
FIT-7591	20	1	21		0.06		-			22	1	20	SPARE
SPARE	20	1	23			-			-	24	1	20	SPARE

TOTAL	0	0	0	0
PHASE TOTAL				
	0	0	0	

0	0	0	0	TOTAL
TOTAL LOAD (KVA)				
1				
TOTAL LOAD (A)				
2				

NOTES:
22KAIC
100KA SPD

208/120 VOLTS 3 PHASE, 4 WIRE				IP-7-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: CORRIDOR(C01)					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
RIO-40	20	1	1	2.40			0.06			2	1	20	LIT-5411
RIO-50	20	1	3		2.40			0.06		4	1	20	LSHH-5412
LSH-5100	20	1	5			0.06			0.06	6	1	20	LIT-5451
LSHH-5112	20	1	7	0.06			0.06			8	1	20	LIT-5511
LSHH-5122	20	1	9		0.06			0.06		10	1	20	LSH-5511
LSH-5200	20	1	11			0.06			0.06	12	1	20	LSHH-5512
LIT-5211	20	1	13	0.06					0.06	14	1	20	WIT-5551
LSHH-5212	20	1	15		0.06			1.0		16	1	20	LCP-6330
LIT-5221	20	1	17			0.06			1.0	18	1	20	LCP-6340
LSHH-5222	20	1	19	0.06			-			20	1	20	SPARE
LIT-5251	20	1	21		0.06			-		22	1	20	SPARE
LSH-5400	20	1	23			0.06		-		24	1	20	SPARE
TOTAL				3	3	0	0	1	1	TOTAL			NOTES: 22KAIC 100KA SPD
				PHASE TOTAL			TOTAL LOAD (KVA)						
				3	4	1	8						
							TOTAL LOAD (A)						
							22						

208/120 VOLTS 3 PHASE, 4 WIRE				IP-4-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY (PLATFORM AREA)					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
RIO-33	20	1	1	2.40			0.06			2	1	20	FIT-3516
RIO-34	20	1	3		2.40			0.06		4	1	20	FIT-3518
AIT-3313	20	1	5						2.4	6	1	20	RIO-70
AIT-3314	20	1	7	0.06			-			8	1	20	SPARE
FIT-3316	20	1	9		0.06		-	-		10	1	20	SPARE
FIT-3318	20	1	11					-		12	1	20	SPARE
AIT-3413	20	1	13	0.06			-			14	1	20	SPARE
AIT-3414	20	1	15		0.06		-	-		16	1	20	SPARE
FIT-3416	20	1	17					-		18	1	20	SPARE
FIT-3418	20	1	19	0.06			-			20	1	20	SPARE
AIT-3513	20	1	21		0.06			-		22	1	20	SPARE
AIT-3514	20	1	23			0.06			-	24	1	20	SPARE


TOTAL	3	3	0
PHASE TOTAL			
	3	3	3

0	0	2	TOTAL
TOTAL LOAD (KVA)			
8			
TOTAL LOAD (A)			
22			

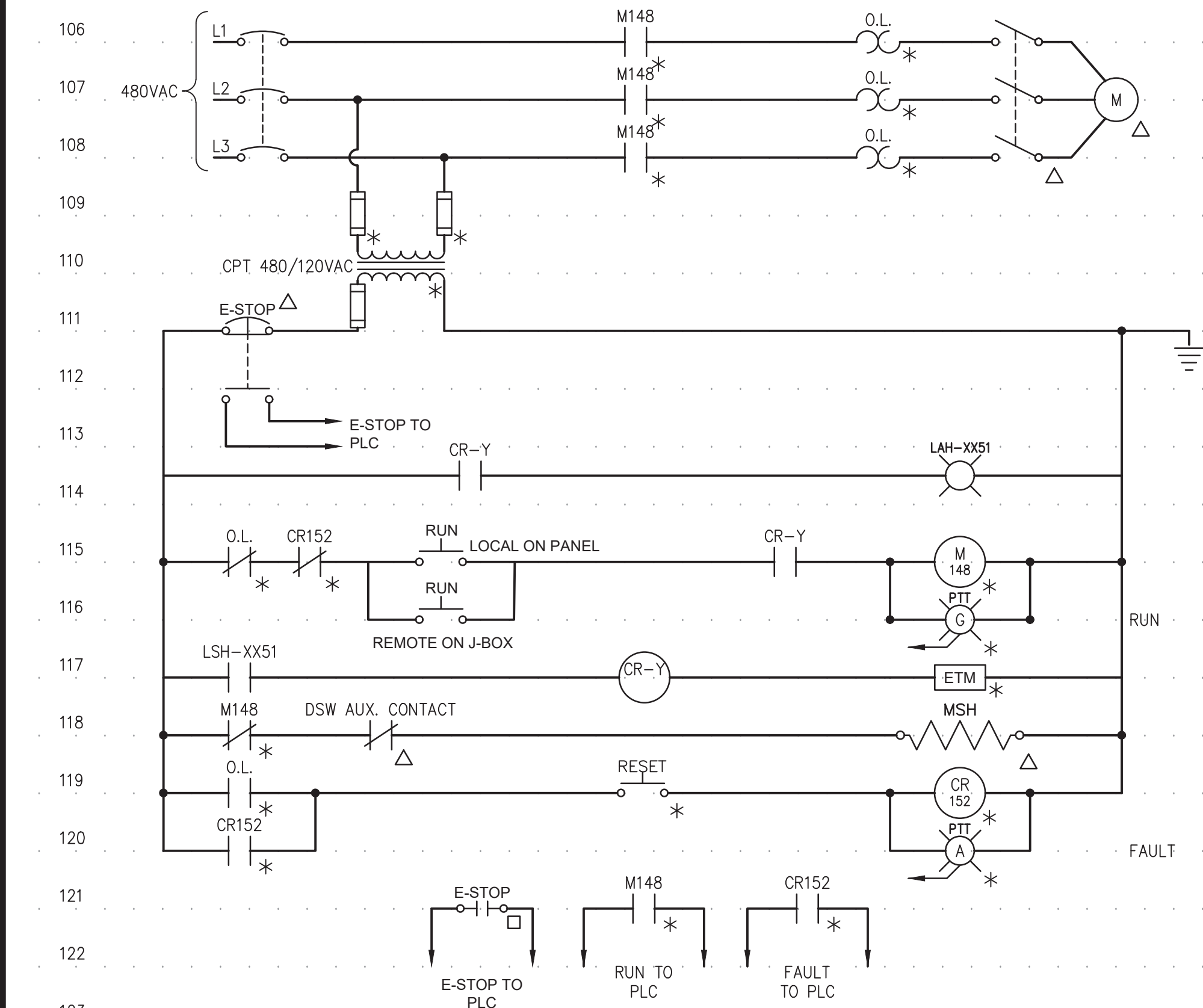
NOTES:
22kAIC
100KA SPD

208/120 VOLTS 3 PHASE, 4 WIRE				IP-6-MCC-2 MAIN BREAKER 50A 3P				TYPE: NEMA 4X MOUNT: SURFACE LOCATION: PIPE GALLERY (PLATFORM AREA)					
DESCRIPTION	TRIP	POLE	CKT No.	KILO-VOLT-AMPERES			KILO-VOLT-AMPERES			CKT No.	POLE	TRIP	DESCRIPTION
				A	B	C	A	B	C				
LIT-7350	20	1	1	0.06			-			2	1	20	SPARE
LIT-7360	20	1	3		0.06		-			4	1	20	SPARE
FIT-7370	20	1	5			0.06			0.06	6	1	20	AIT-4792
AIT-4111	20	1	7	0.06						8	1	20	AIT-4793
AIT-4112	20	1	9		0.06			0.06		10	1	20	AIT-4794
AIT-4113	20	1	11			0.06		2.4		12	1	20	PLC-UV-001
LIT-4201	20	1	13	0.06			2.4			14	1	20	PLC-UV-002
LIT-4301	20	1	15		0.06			2.4		16	1	20	PLC-UV-003
LIT-7401	20	1	17			0.06			-	18	1	20	SPARE
FIT-7403	20	1	19	0.06			-			20	1	20	SPARE
AIT-4711	20	1	21		0.06		-			22	1	20	SPARE
AIT-4712	20	1	23			0.06			-	24	1	20	SPARE
FIT-4412	20	1	25	0.06			-			26	1	20	SPARE
FIT-4512	20	1	27		0.06		-			28	1	20	SPARE
FIT-4612	20	1	29			0.06			-	30	1	20	SPARE
S-4110	20	1	31	0.06			-			32	1	20	SPARE
S-4120	20	1	33		0.06		-			34	1	20	SPARE
S-4710	20	1	35			0.06			-	36	1	20	SPARE
RIO-60	20	1	37	2.40			-			38	1	20	SPARE
SPARE	20	1	39				-			40	1	20	SPARE
SPARE	20	1	41						-	42	1	20	SPARE
													NOTES: 22kAIC 100kA SPD
TOTAL				3	0	0	2	2	2	TOTAL			
				PHASE TOTAL			TOTAL LOAD (KVA)						
				5	3	3	11						
							TOTAL LOAD (A)						
							30						

WARNING
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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1" 
REV		ISSUED FOR	DATE	BY	

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PLOT DATE: 4/15/2025 3:43 PM BY: APENA

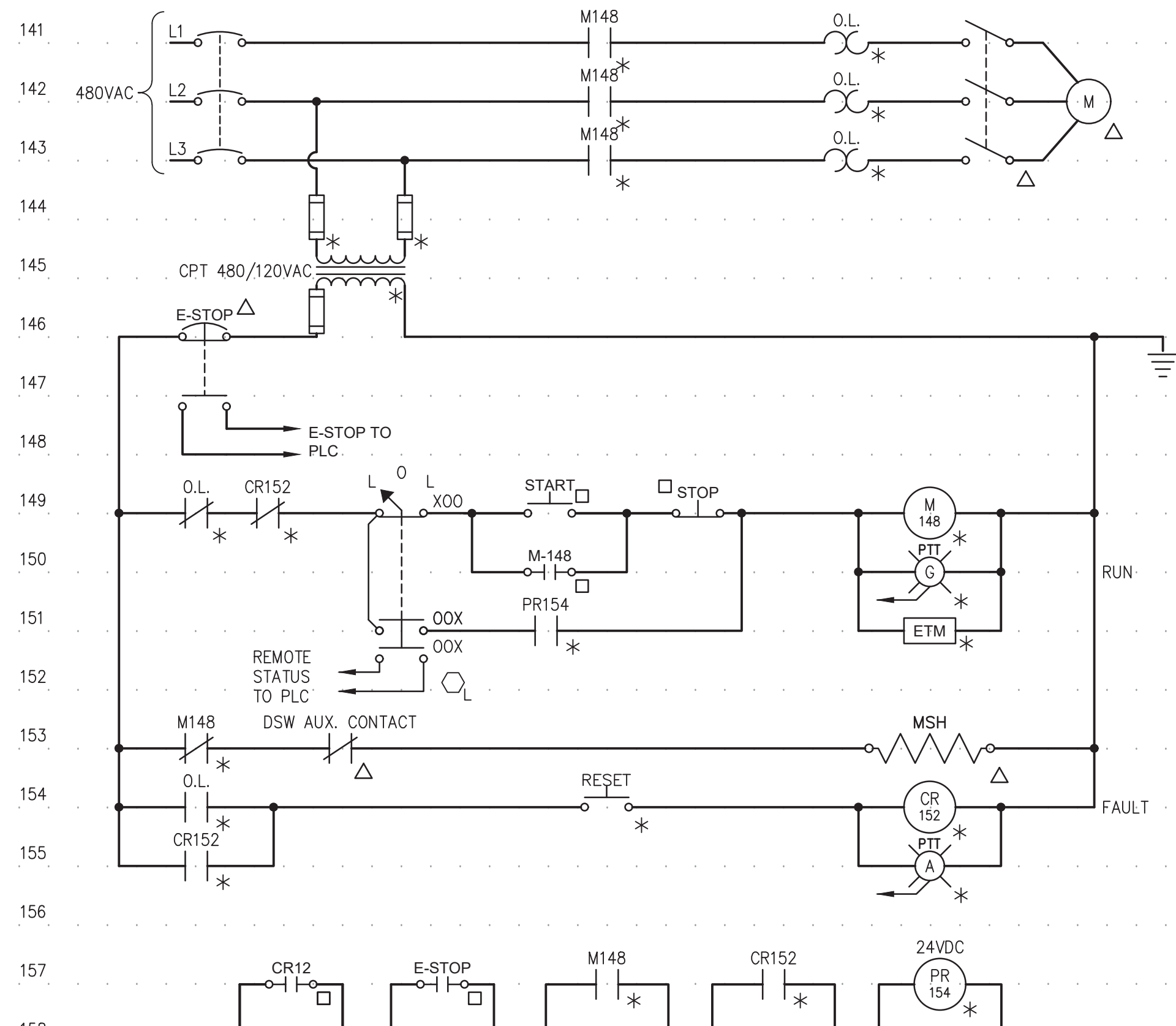


COAGULANT, PACL, NAOH, PHA, HFS, TRANSFER PUMPS

EWD NO.4

COAGULANT TRANSFER PUMPS NO.X	PACL TRANSFER PUMPS NO.X	NAOH TRANSFER PUMPS NO.X
COAGULANT TRANSFER PUMP NO.1 (P-5130)	PACL TRANSFER PUMP NO.1 (P-5230)	NAOH TRANSFER PUMP NO.1 (P-5330)
COAGULANT TRANSFER PUMP NO.2 (P-5140)	PACL TRANSFER PUMP NO.2 (P-5240)	NAOH TRANSFER PUMP NO.2 (P-5340)

PHA TRANSFER PUMPS NO.X	HFS TRANSFER PUMPS NO.X
PHA TRANSFER PUMP NO.1 (P-5430)	HFS TRANSFER PUMP NO.1 (P-5530)
PHA TRANSFER PUMP NO.2 (P-5440)	HFS TRANSFER PUMP NO.2 (P-5540)




RESIDUAL STORAGE TANK MIXING PUMPS

EWD NO.5

RESIDUAL STORAGE TANK MIXING PUMP NO.X
RESIDUAL STORAGE TANK MIXING PUMP NO.1 (P-6220)
RESIDUAL STORAGE TANK MIXING PUMP NO.2 (P-6260)

WARNING
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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	R. CHUNG
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1" 
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NEW YORK, NEW YORK 10018

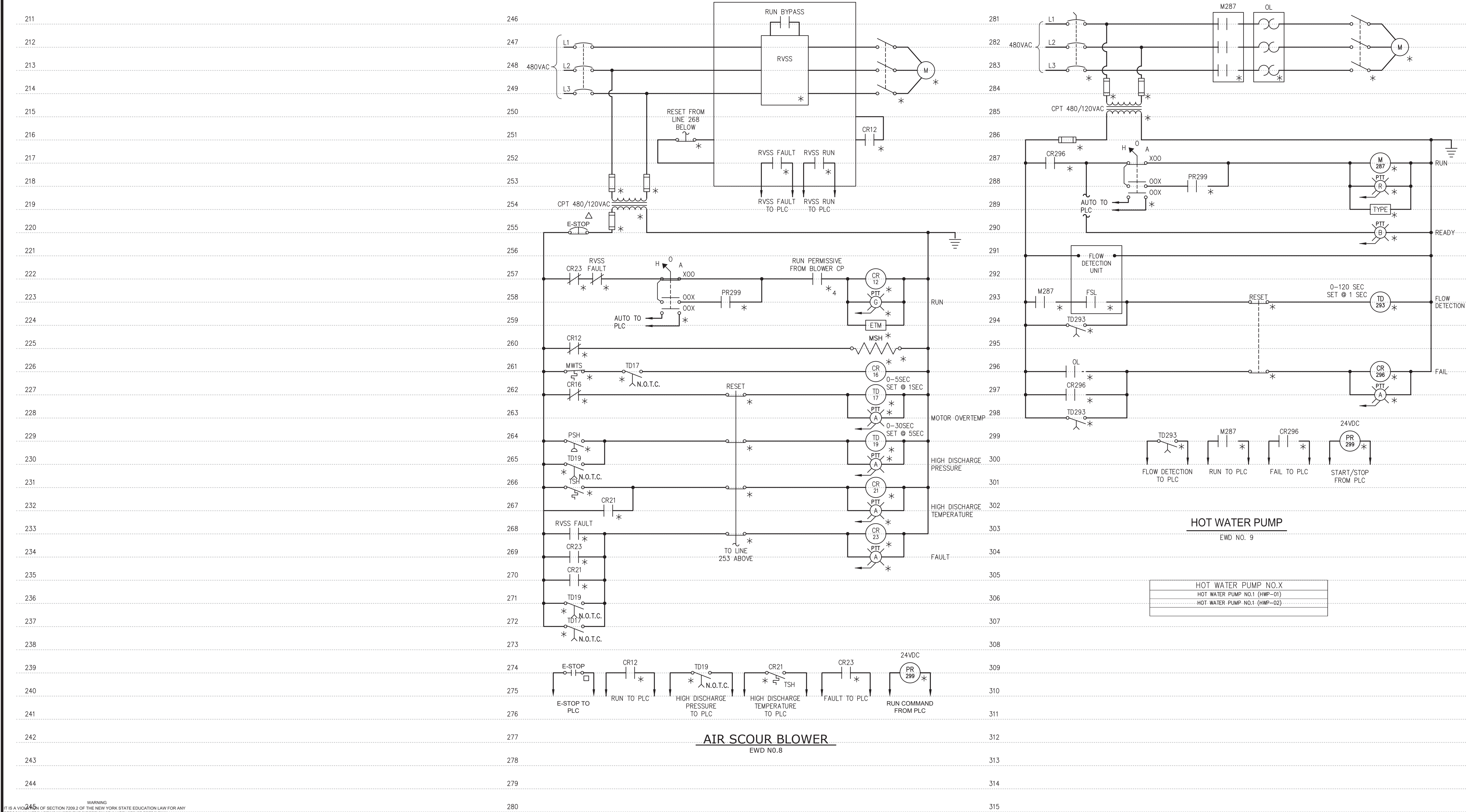
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
WIRING DIAGRAM - SHEET 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-019

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PLOT DATE: 4/15/2025 3:43 PM BY: APENA



				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	R. CHUNG
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

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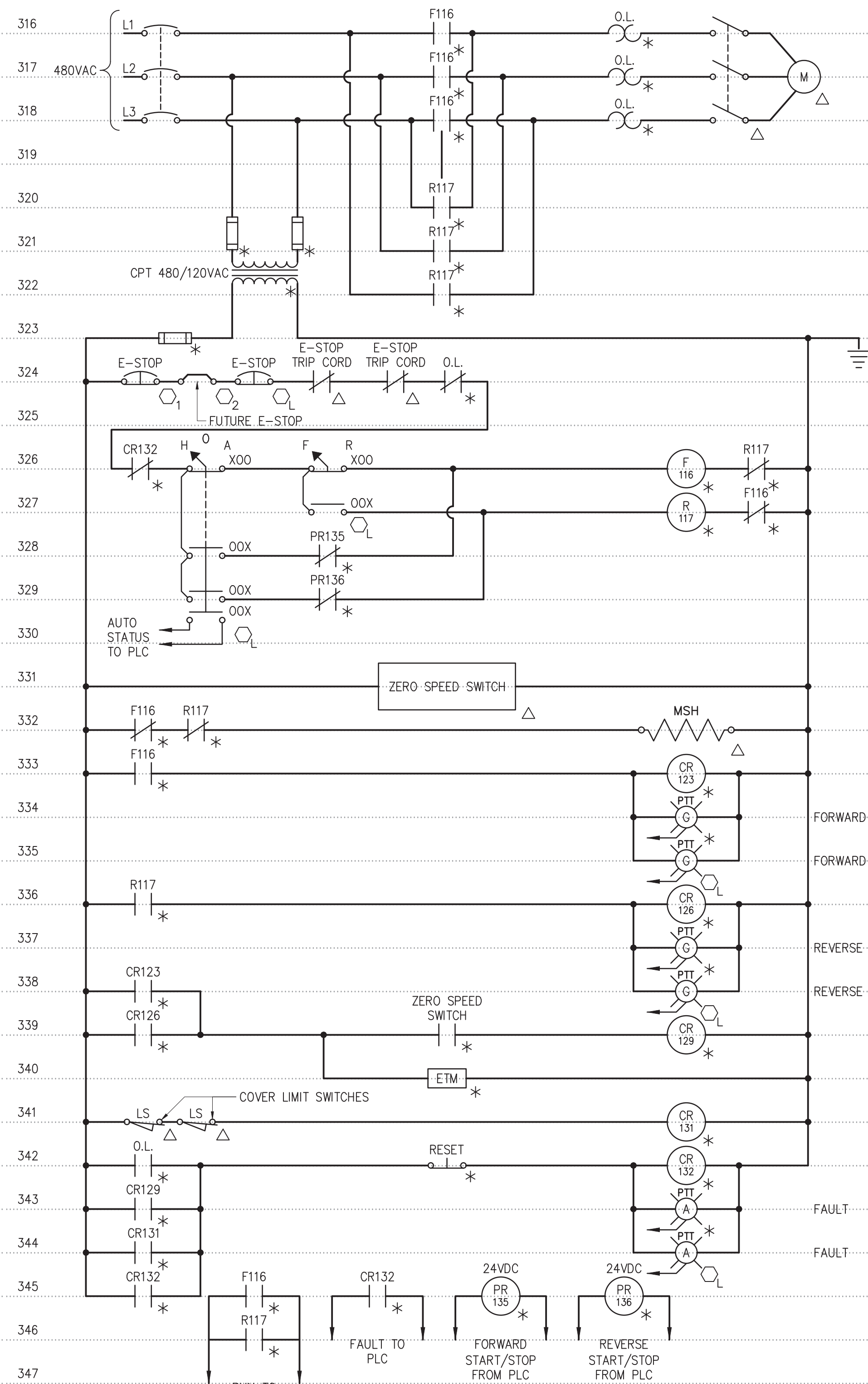
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WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
WIRING DIAGRAM - SHEET 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-020



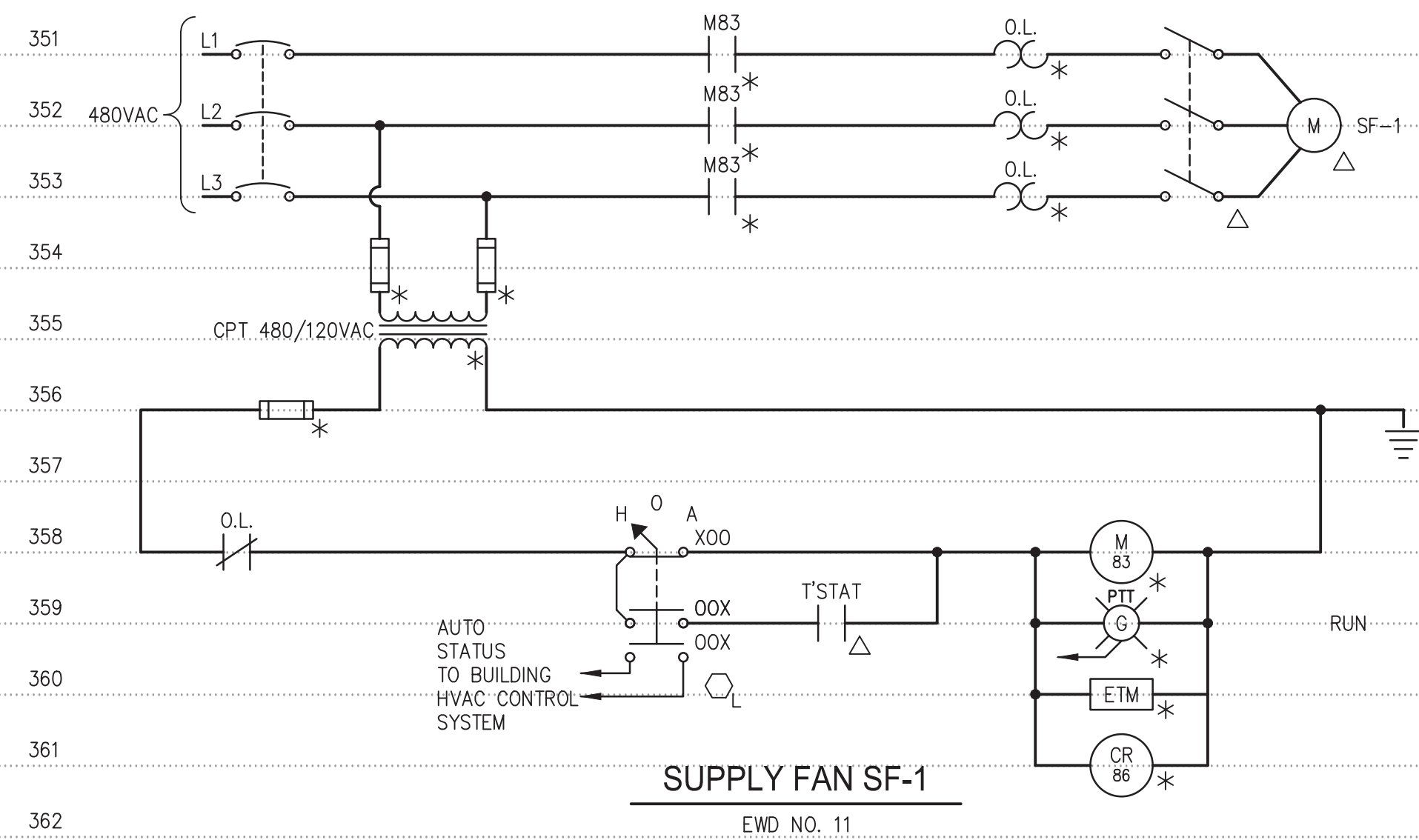
SCREW CONVEYOR

EWD No. 10

SCREW CONVEYORS NO.X
SCREW CONVEYOR NO.1 (CONV-6420)
SCREW CONVEYOR NO.2 (CONV-6430)
SCREW CONVEYOR NO.3 (CONV-6440)

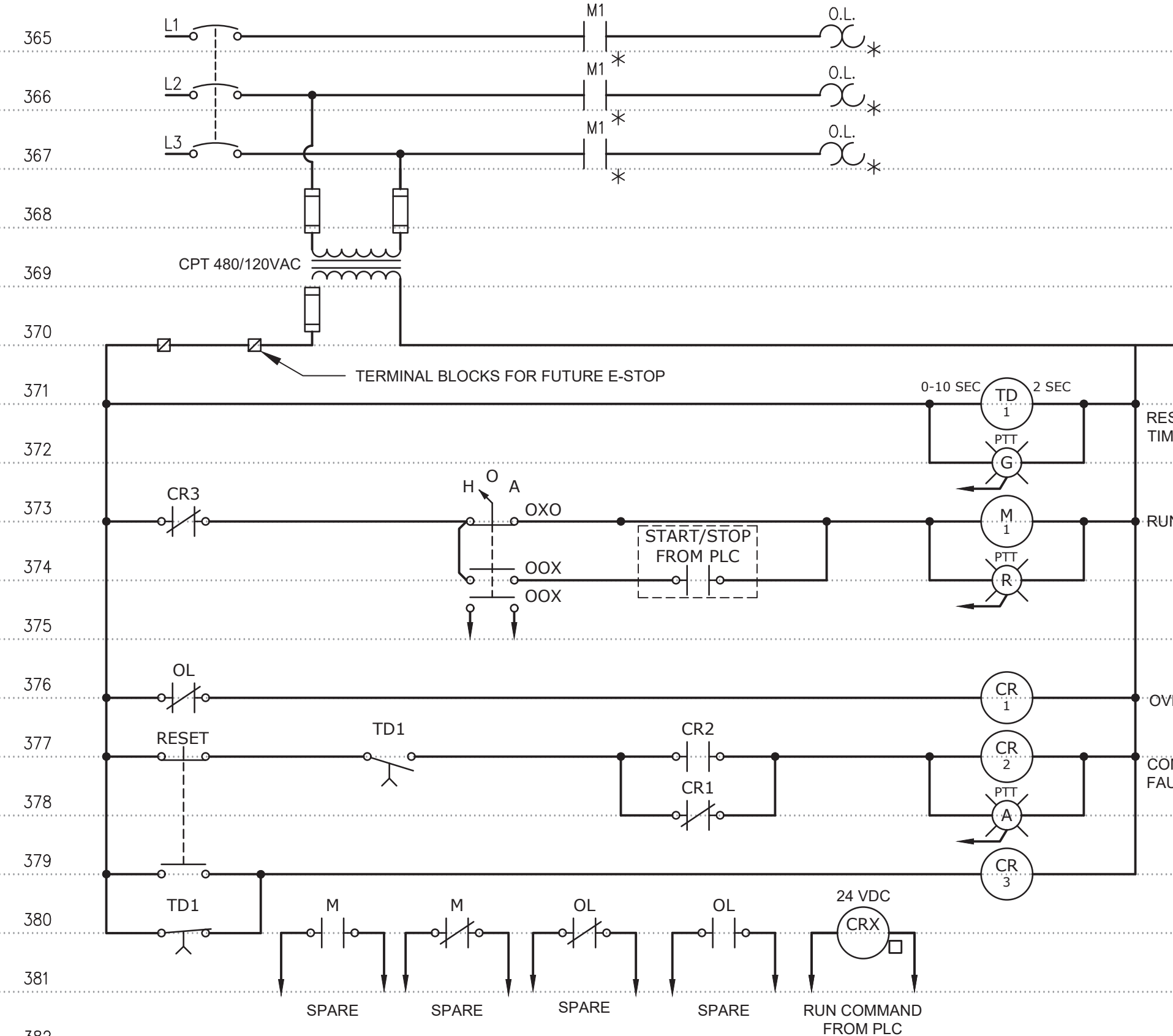
WARNING

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SUPPLY FAN SF-1


EWD NO. 11



TYPICAL SPARE STARTER

EWD No. 12

[illegible]

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div style="display: flex; align-items: center;"> 0  </div>

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NEW YORK, NEW YORK 10018

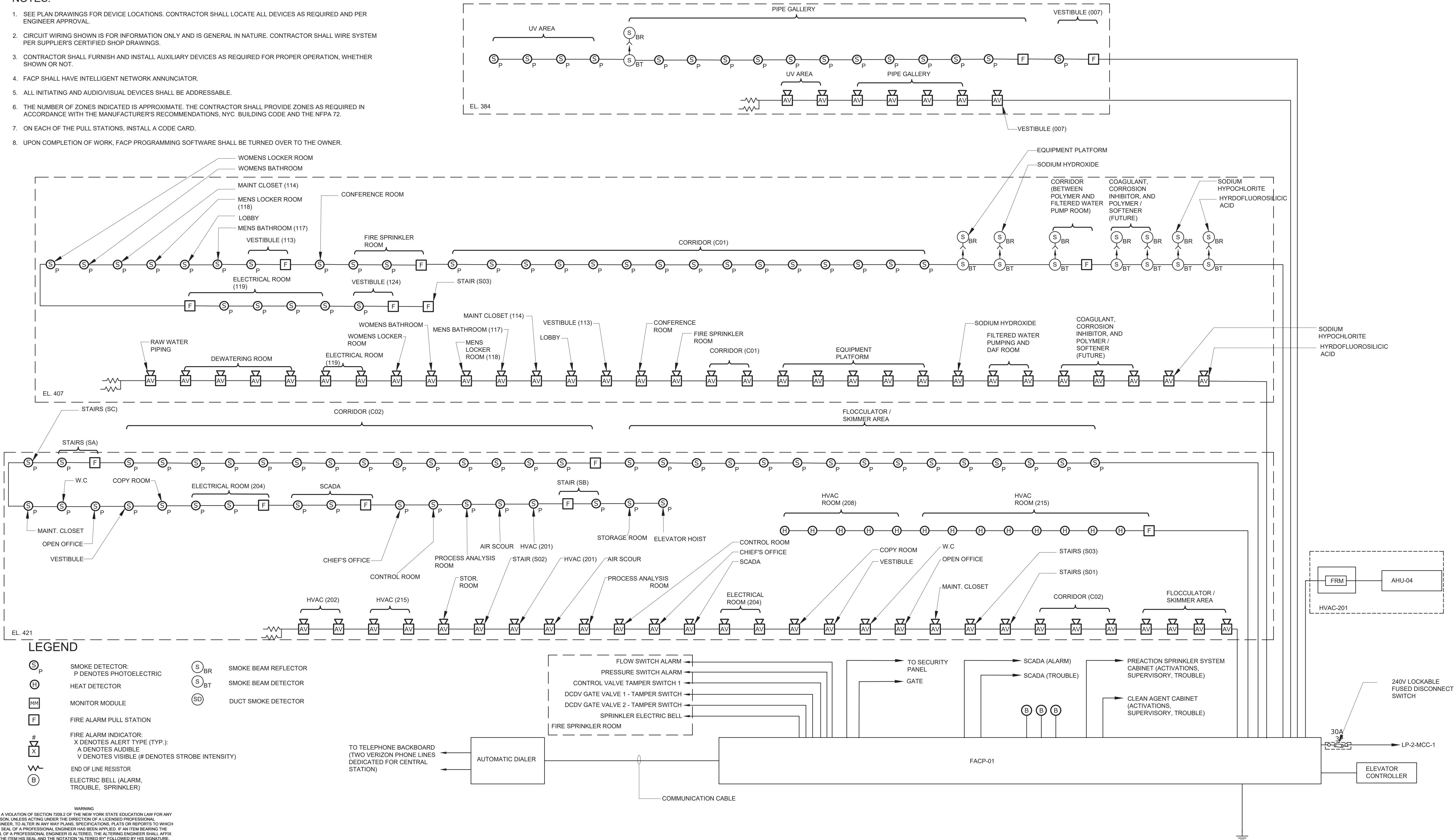
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT HARRISON, NY

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-021

NOTES:


- SEE PLAN DRAWINGS FOR DEVICE LOCATIONS. CONTRACTOR SHALL LOCATE ALL DEVICES AS REQUIRED AND PER ENGINEER APPROVAL.
- CIRCUIT WIRING SHOWN IS FOR INFORMATION ONLY AND IS GENERAL IN NATURE. CONTRACTOR SHALL WIRE SYSTEM PER SUPPLIER'S CERTIFIED SHOP DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL AUXILIARY DEVICES AS REQUIRED FOR PROPER OPERATION, WHETHER SHOWN OR NOT.
- FACP SHALL HAVE INTELLIGENT NETWORK ANNUNCIATOR.
- ALL INITIATING AND AUDIO/VISUAL DEVICES SHALL BE ADDRESSABLE.
- THE NUMBER OF ZONES INDICATED IS APPROXIMATE. THE CONTRACTOR SHALL PROVIDE ZONES AS REQUIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, NYC BUILDING CODE AND THE NFPA 72.
- ON EACH OF THE PULL STATIONS, INSTALL A CODE CARD.
- UPON COMPLETION OF WORK, FACP PROGRAMMING SOFTWARE SHALL BE TURNED OVER TO THE OWNER.



LEGEND

- | | | | |
|--|--|--|----------------------|
| | SMOKE DETECTOR:
P DENOTES PHOTOELECTRIC | | SMOKE BEAM REFLECTOR |
| | HEAT DETECTOR | | SMOKE BEAM DETECTOR |
| | MONITOR MODULE | | DUCT SMOKE DETECTOR |
| | FIRE ALARM PULL STATION | | |
| | FIRE ALARM INDICATOR:
X DENOTES ALERT TYPE (TYP.):
A DENOTES AUDIBLE
V DENOTES VISIBLE (# DENOTES STROBE INTENSITY) | | |
| | END OF LINE RESISTOR | | |
| | ELECTRIC BELL (ALARM,
TROUBLE, SPRINKLER) | | |

WARNING
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REV	ISSUED FOR	DATE	BY		

BID SET



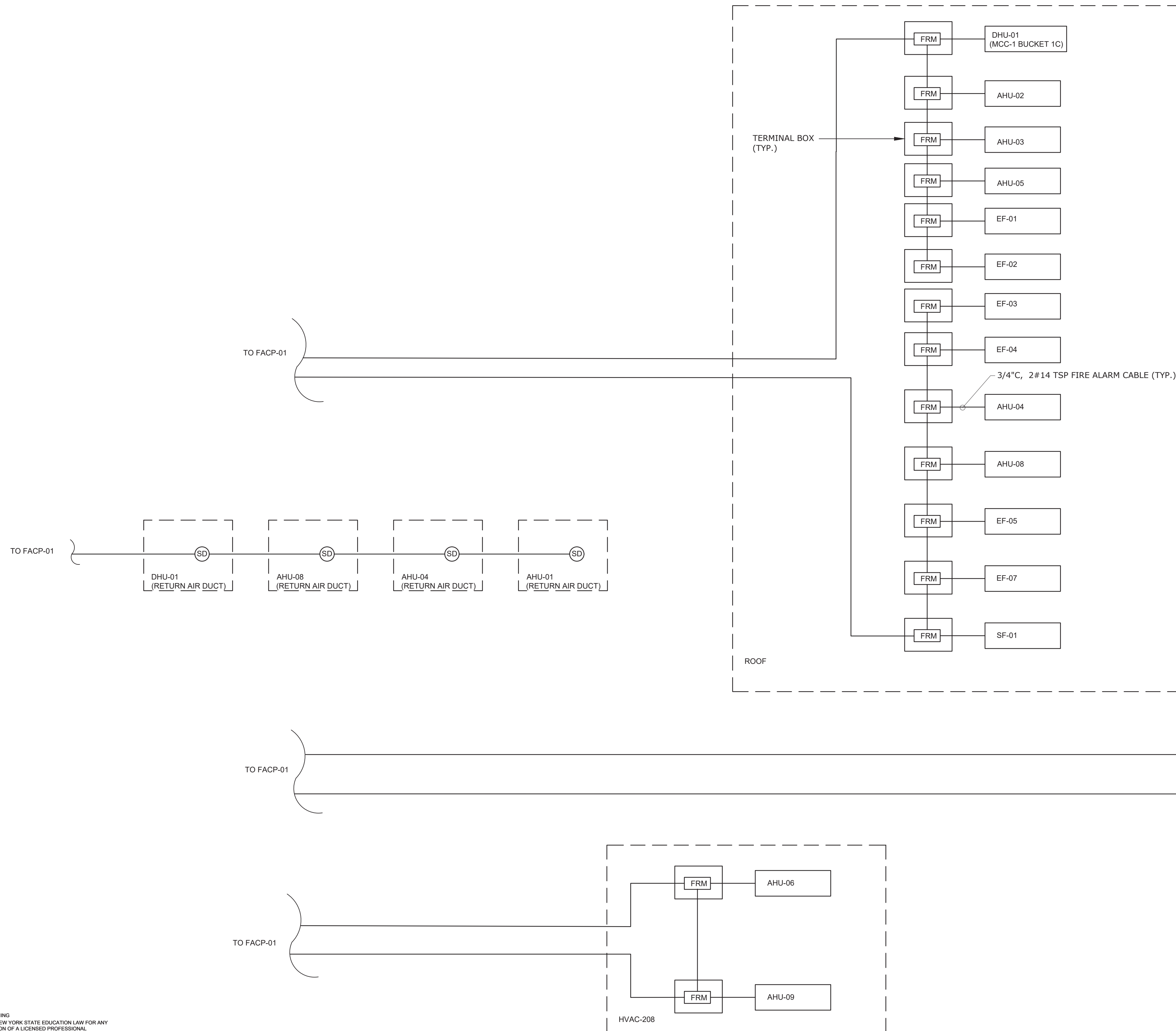
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WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
FIRE ALARM SYSTEM RISER DIAGRAM - SHEET 1

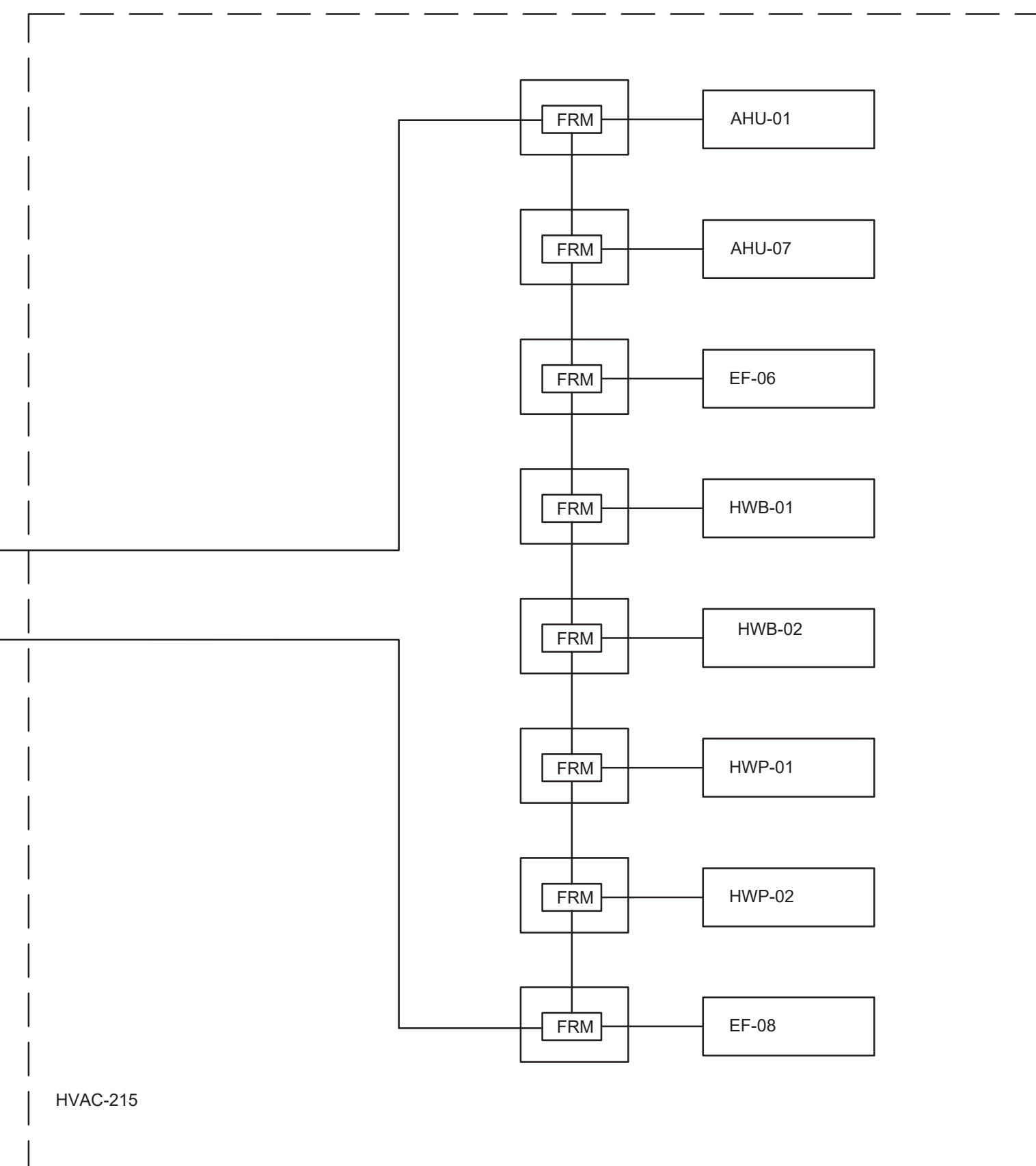
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-022



										SYSTEM OUTPUTS	
										CONTROL UNIT ANNUNCIATION	NOTIFICATION
										ACTIVATE COMMON ALARM SIGNAL INDICATOR	
										ACTIVATE AUDIBLE ALARM SIGNAL	
										ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	
										ACTIVATE HORN STROBE (TEMPORAL 3)	
										SEND ALARM NOTIFICATION TO CENTRAL STATION VIA FACP-01	
										SEND TROUBLE NOTIFICATION TO CENTRAL STATION VIA FACP-01	
	A	B	C	D	E	F	G				
1	MANUAL FIRE ALARM PULL STATION	X	X			X	X		1		
2	SMOKE DETECTORS	X	X			X	X		2		
3	DUCT SMOKE DETECTORS	X	X			X	X		3		
4	FIRE ALARM AC POWER FAILURE			X	X			X	4		
5	FIRE ALARM SYSTEM LOW BATTERY			X	X			X	5		
6	OPEN CIRCUIT			X	X			X	6		
7	GROUND FAULT			X	X			X	7		
8	NOTIFICATION APPLIANCE CIRCUIT SHORT			X	X			X	8		
9	HEAT DETECTORS	X	X			X	X		9		
10	BEAM DETECTORS	X	X			X	X		10		
11	WATERFLOW SWITCHES	X	X			X	X		11		
12	TAMPER SWITCHES	X	X			X	X		12		
	A	B	C	D	E	F	G				


SYSTEM INPUTS

SYSTEM MATRIX



WARNING

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				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				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		

BID SET



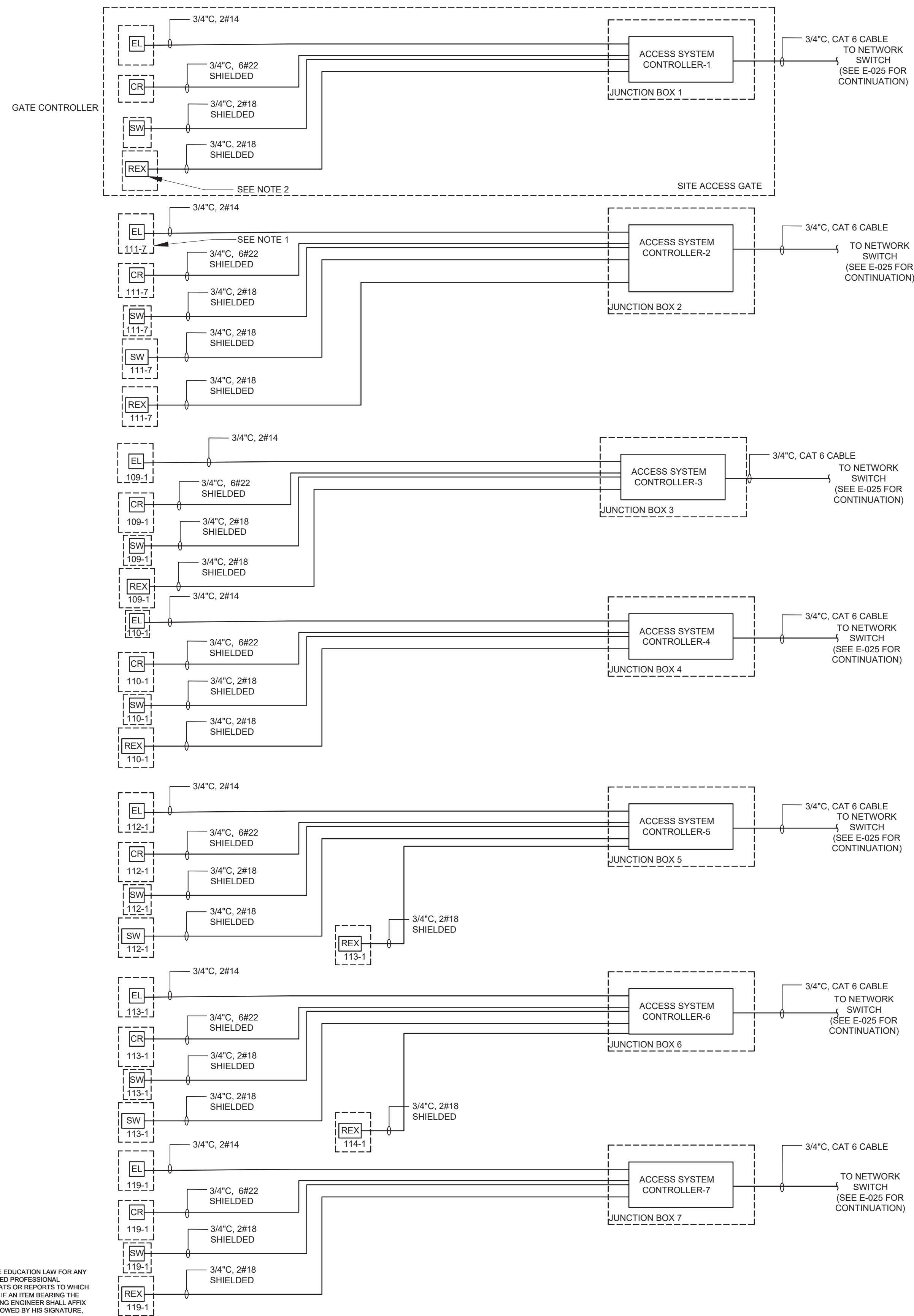
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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY


ELECTRICAL
FIRE ALARM SYSTEM RISER DIAGRAM - SHEET 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-023



WARNING

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				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				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		

BID SET



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WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

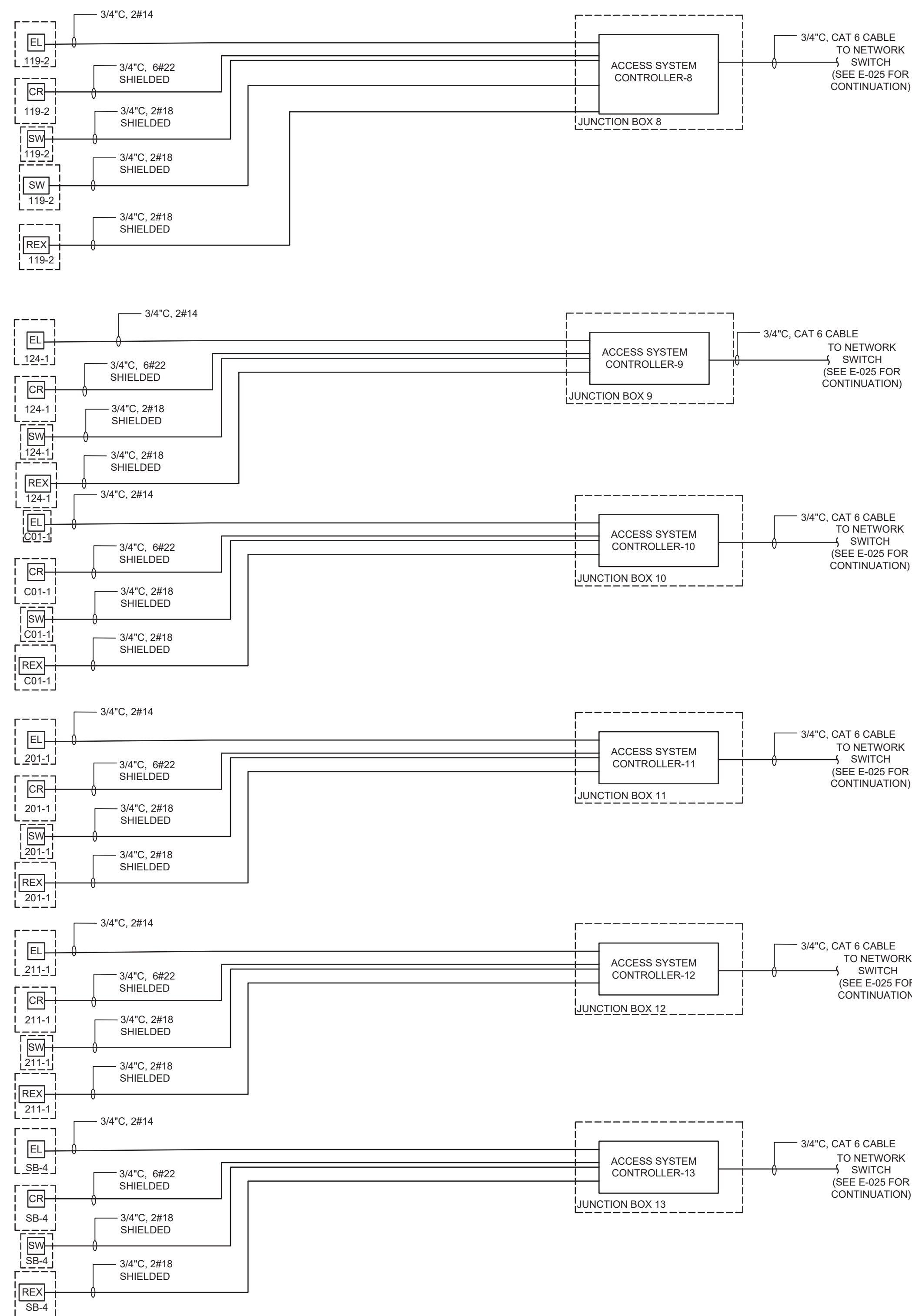
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
SECURITY SYSTEM AND PAGING/COMMUNICATION
NETWORK RISER DIAGRAM - SHEET 1

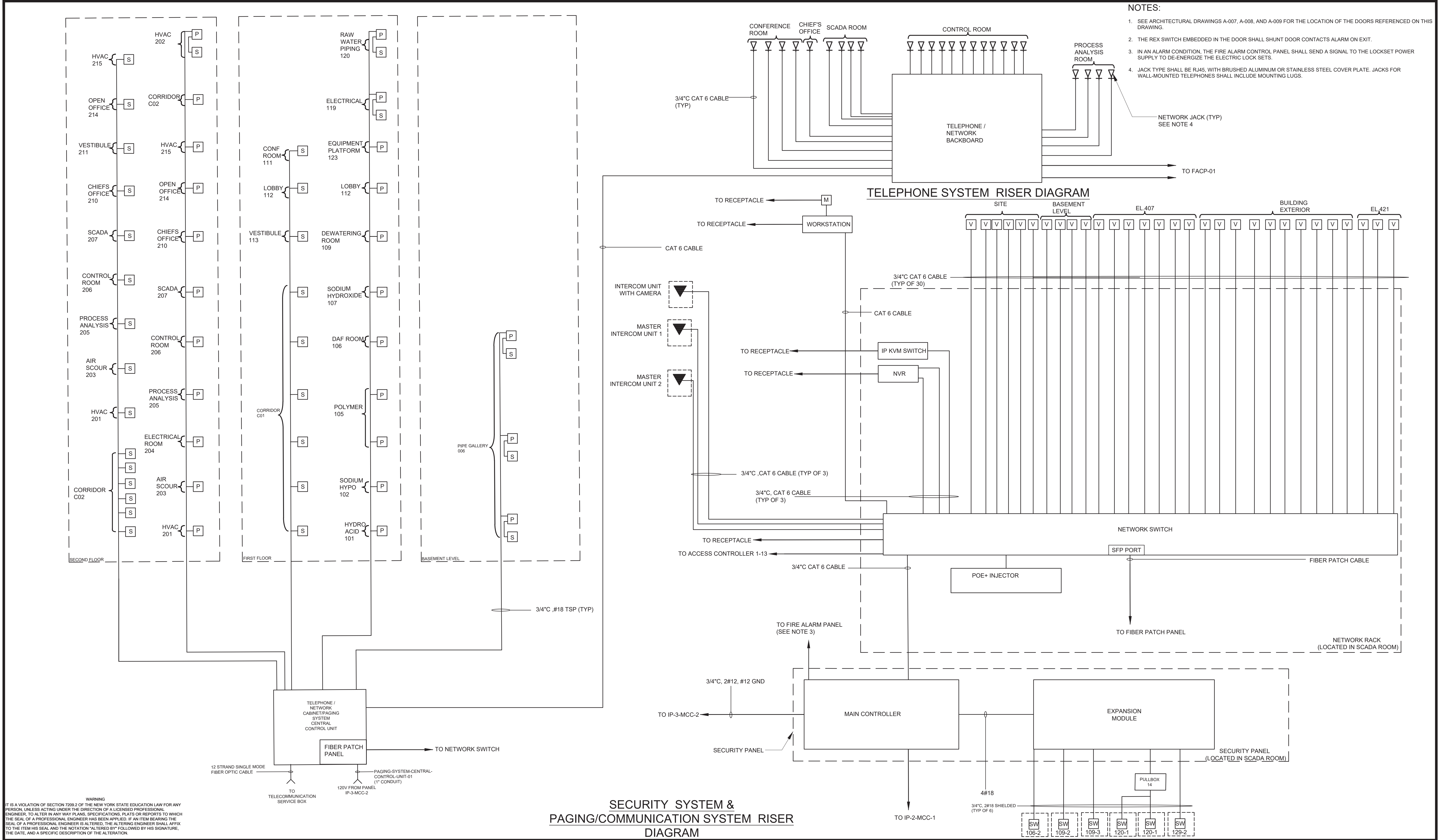
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-024

NOTES:

1. SEE ARCHITECTURAL DRAWINGS A-007, A-008, AND A-009 FOR THE LOCATION OF THE DOORS REFERENCED ON THIS DRAWING.
2. THE REX SWITCH EMBEDDED IN THE DOOR SHALL SHUNT DOOR CONTACTS ALARM ON EXIT.



File: C:\USERS\APEN\Documents\HAZEN AND SAWYER\PROJECT FILES\PROJECTWISE\ELECTRICAL\E-025 Saved by OKREMEM Save date: 2/7/2025 4:07 PM
PLOT DATE: 4/15/2025 3:47 PM BY: APENA



				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

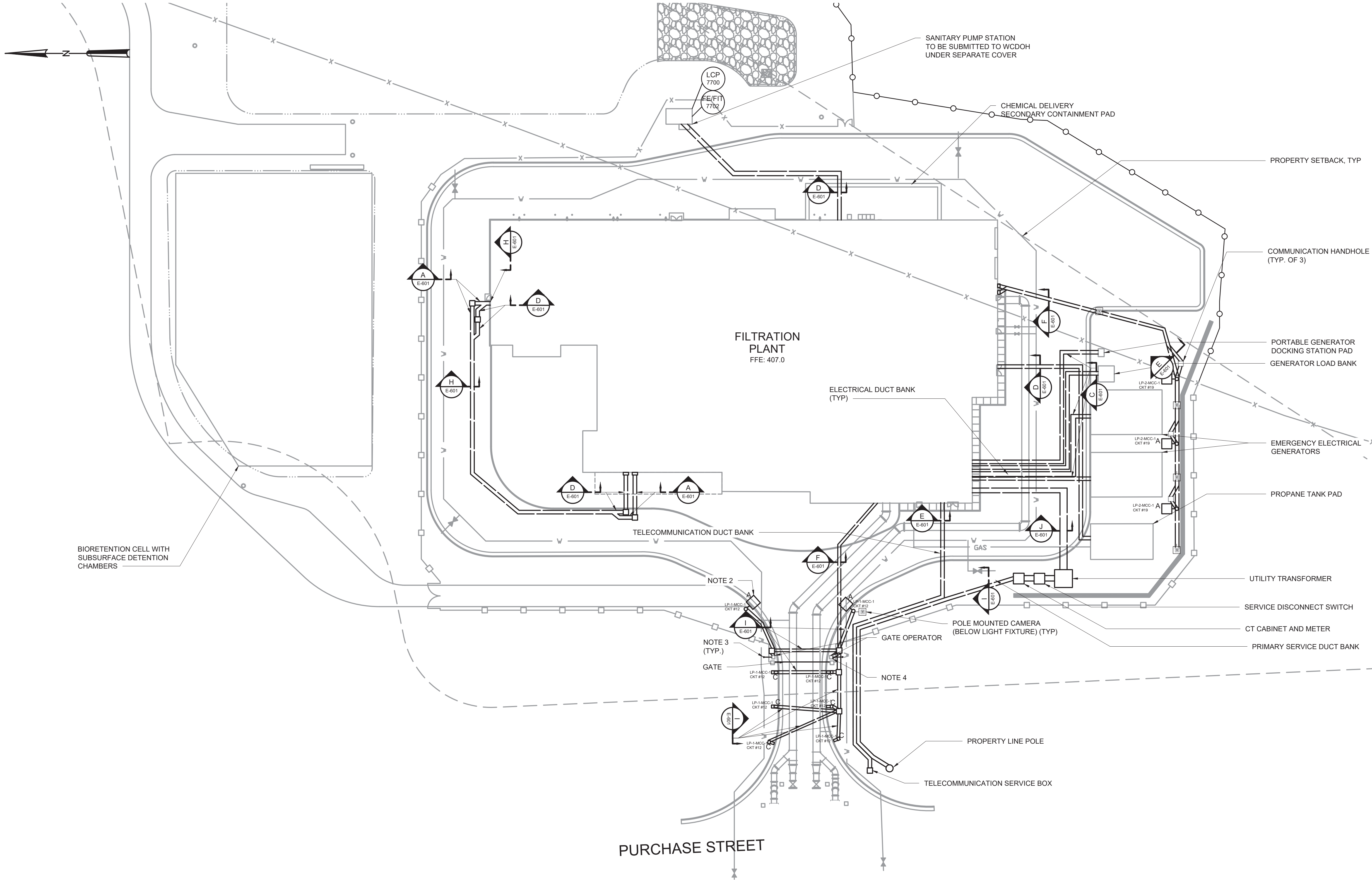
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
SECURITY SYSTEM AND PAGING/COMMUNICATION
NETWORK RISER DIAGRAM - SHEET 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-025



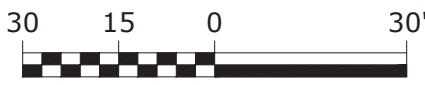
NOTES:

1. REFER TO THE SECURITY SYSTEM RISER DIAGRAM SHOWN ON E-024 AND E-025 FOR MORE DETAILS.
2. MOUNT FIXTURES TYPE A AND A2 10' AFF.
3. FURNISH AND INSTALL SOLID COPPER GROUND ROD 5/8" DIAMETER AND 10' LONG. BOND GROUND ROD TO THE CHASSIS BASE THROUGH THE CONCRETE BASE WITH A SINGLE, UN-SPLICED #6 AWG COPPER WIRE THEN 3' LONG.
4. A THREE-WIRE SHIELDED CONDUCTOR CABLE IS REQUIRED TO CONNECT TWO OPERATORS TOGETHER FOR DUAL OPERATION. USE BELDEN 8760 TWISTED PAIR SHIELDED CABLE (OR EQUIVALENT) ONLY.

PLAN

SCALE: 1" = 30'

SCALE: 1" = 30'



WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	Y. ABDALLA
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

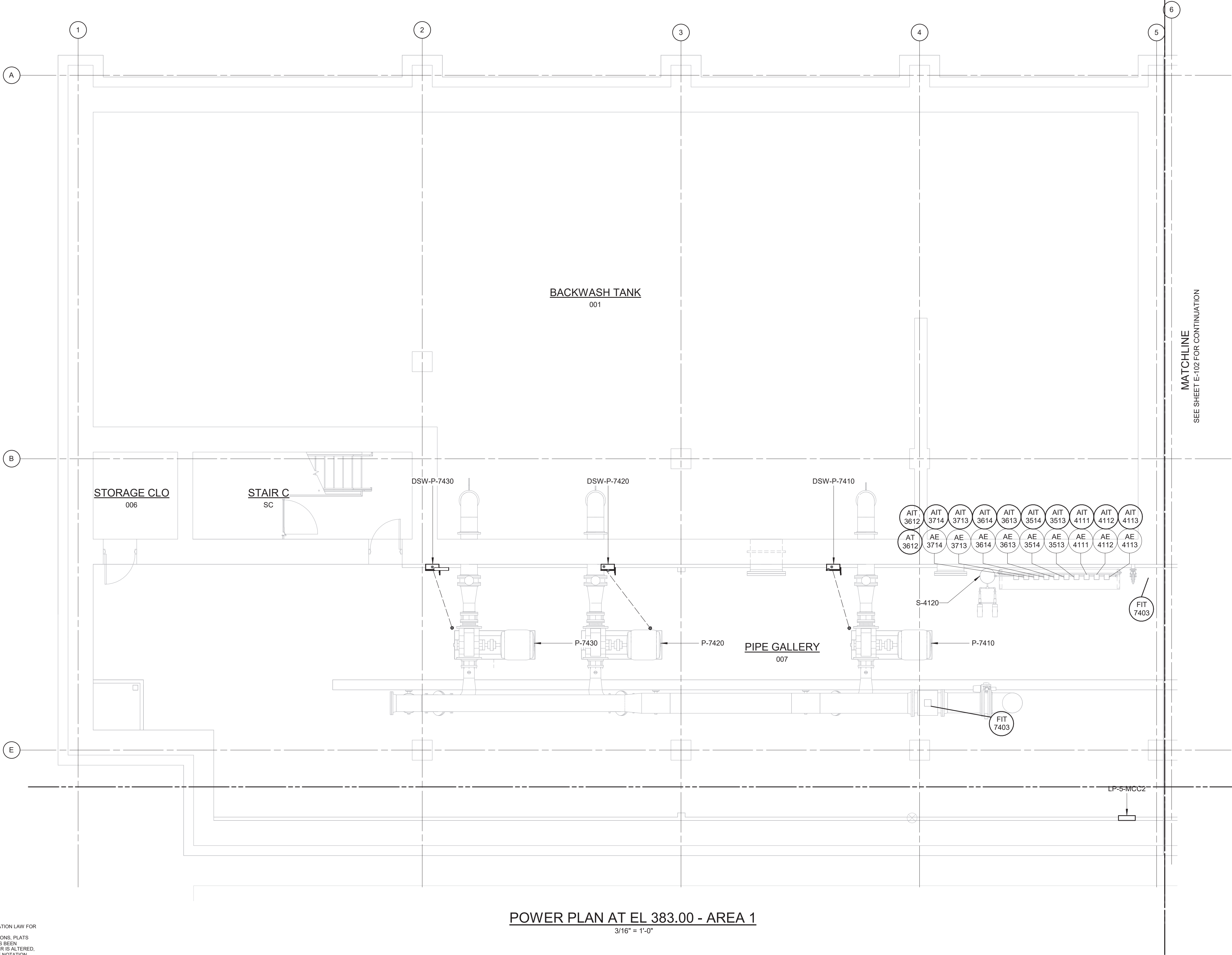
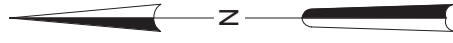
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

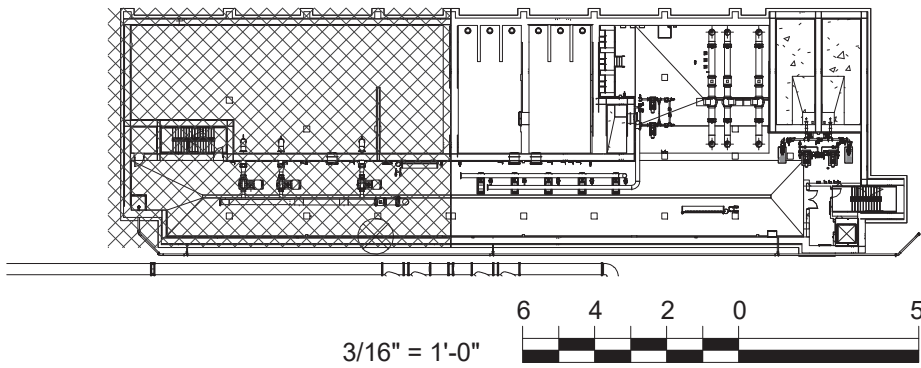
ELECTRICAL
SITE PLAN

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-100



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. CONDUIT SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.
 4. ALL "J" LIGHT FIXTURES SHALL BE MOUNTED 8'-6" AFF.

POWER PLAN AT EL 383.00 - AREA 1
3/16" = 1'-0"



WARNING
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 383.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-101

Autodesk Docu/00388-000_Rye_Lake_Filtration/00388-000-WFP-E-101
4/15/2025 3:05:21 PM

WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



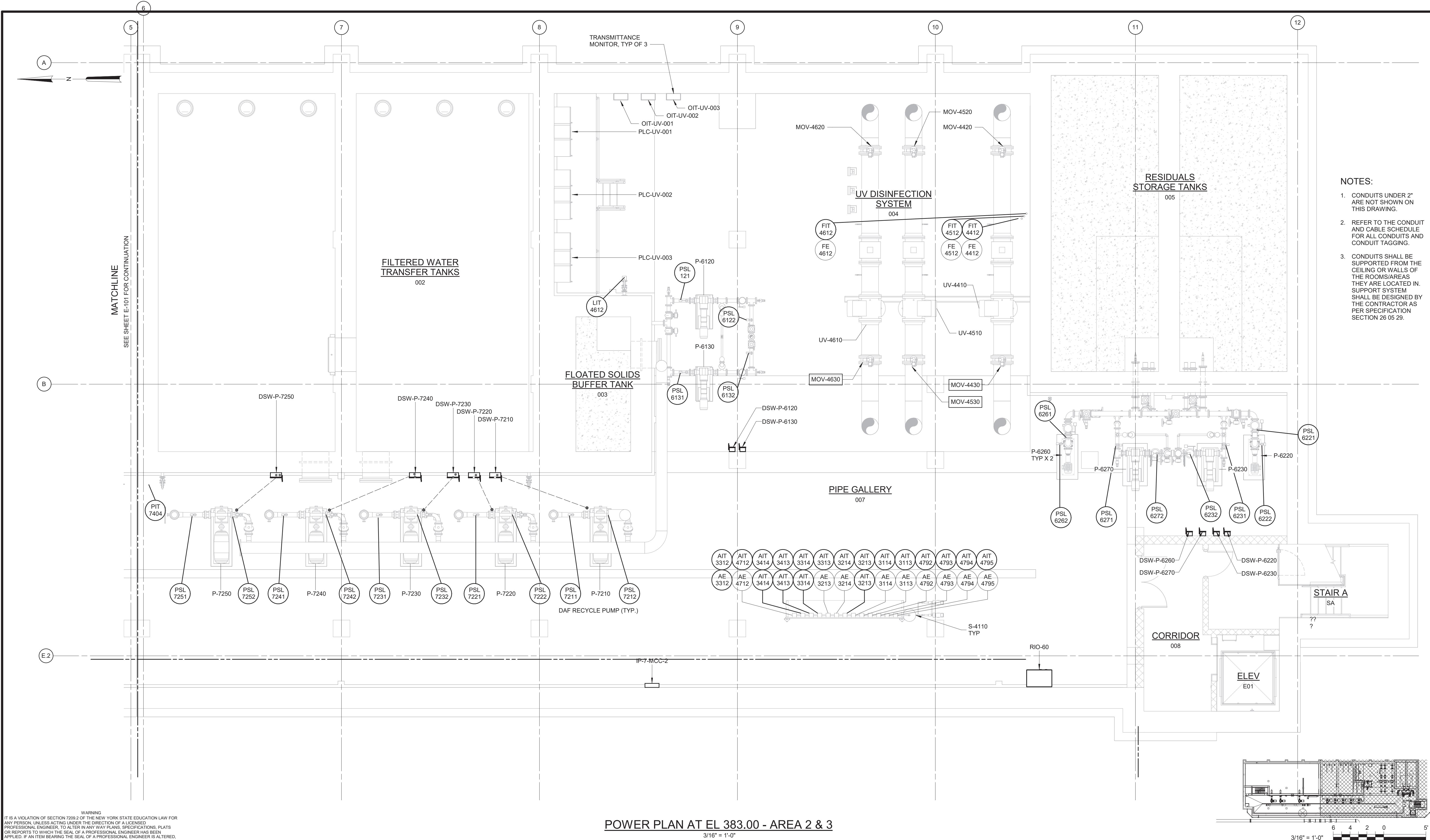
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

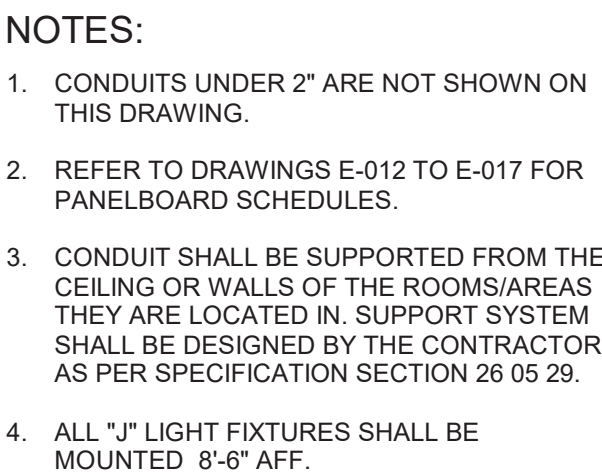
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 383.00 - AREA 2 & 3

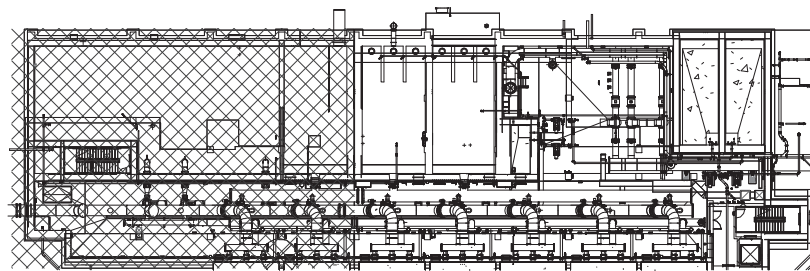
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-102



- NOTES:
- CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 - REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 - CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



MATCHLINE
SEE SHEET E-104 FOR CONTINUATION



3/16" = 1'-0"

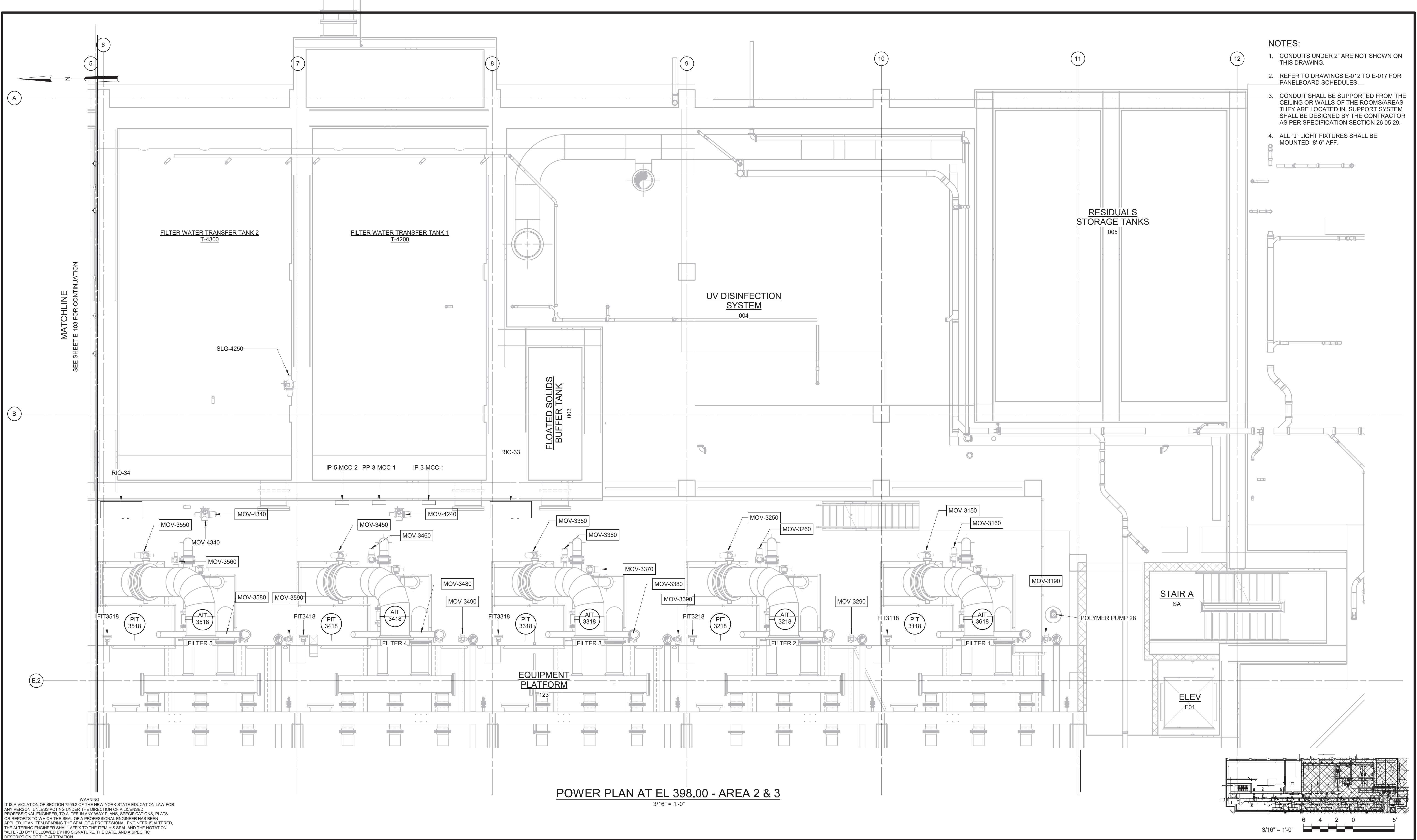
$$\frac{3}{16}'' = 1'-0''$$
BID SET

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

RYE LAKE WATER FILTRATION PLANT HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 398.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-103



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. CONDUIT SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.
 4. ALL "J" LIGHT FIXTURES SHALL BE MOUNTED 8'-6" AFF.

PROJECT ENGINEER: R. FROST			
DESIGNED BY: Y. ABDALLA			
DRAWN BY: R. CHUNG			
CHECKED BY: G. MARKOU			
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

BID SET

0 1/2" 1"

Hazen

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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 398.00 - AREA 2 & 3

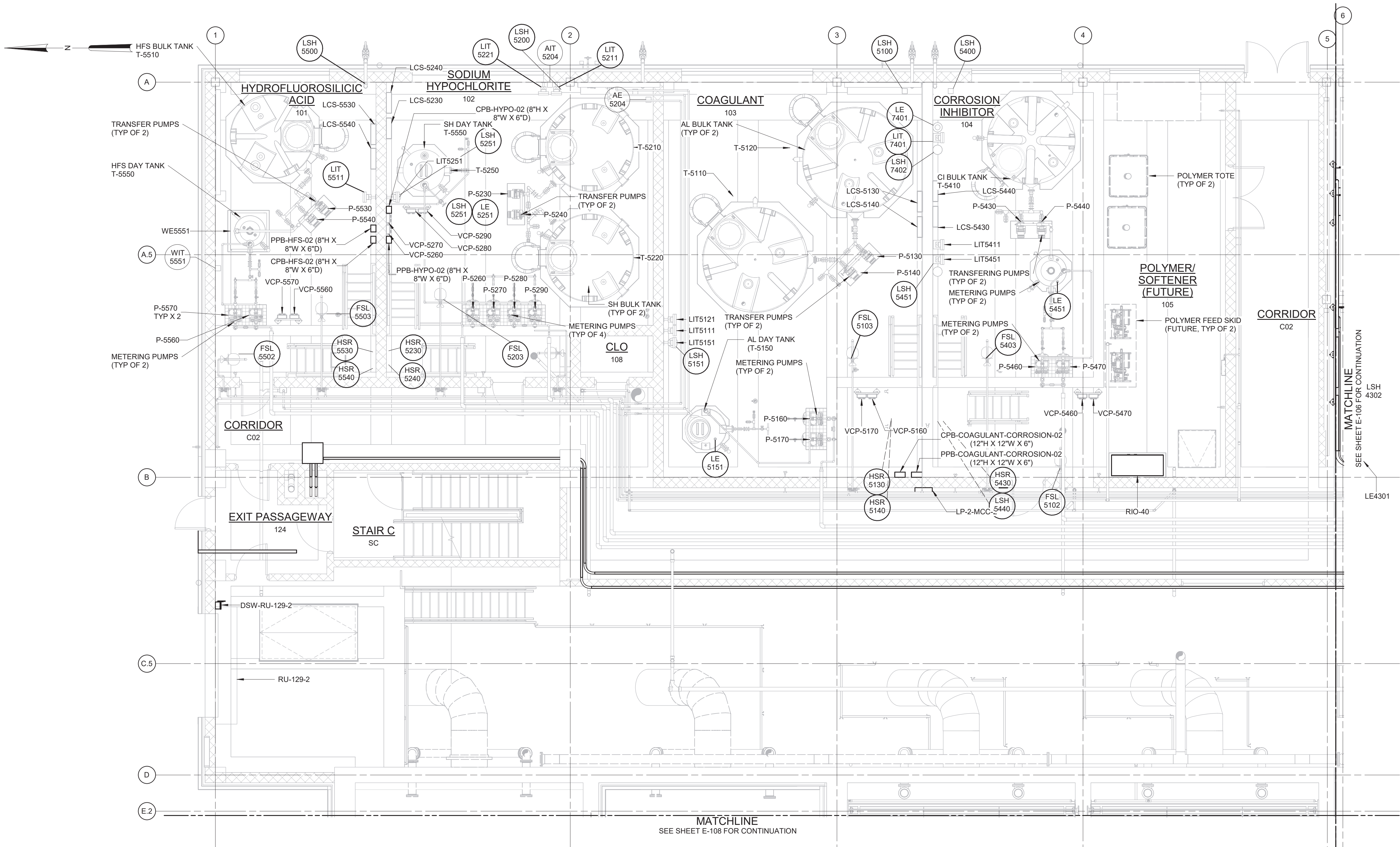
DATE: FEB 2025

HAZEN NO.: 90388-000

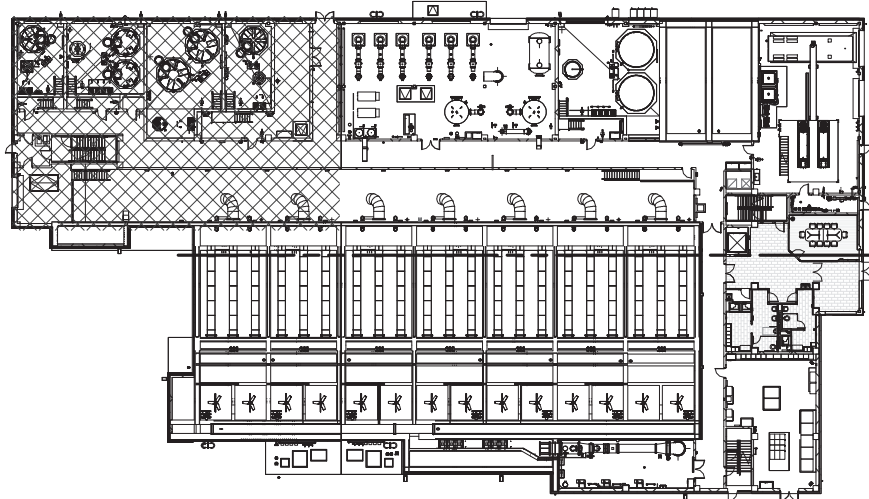
CONTRACT NO.: A1364-A

DRAWING NUMBER: E-104

Autodesk Docu/090388-000_Rye_Lake_Filtration/090388-000-WFP-E-104
4/15/2025 3:05:29 PM



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



3/16" = 1'-0"

POWER PLAN AT EL 407.00 - AREA 1
3/16" = 1'-0"

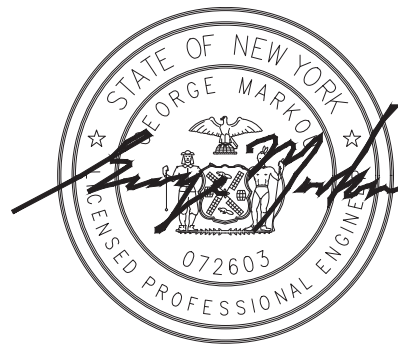
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WARNING:
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



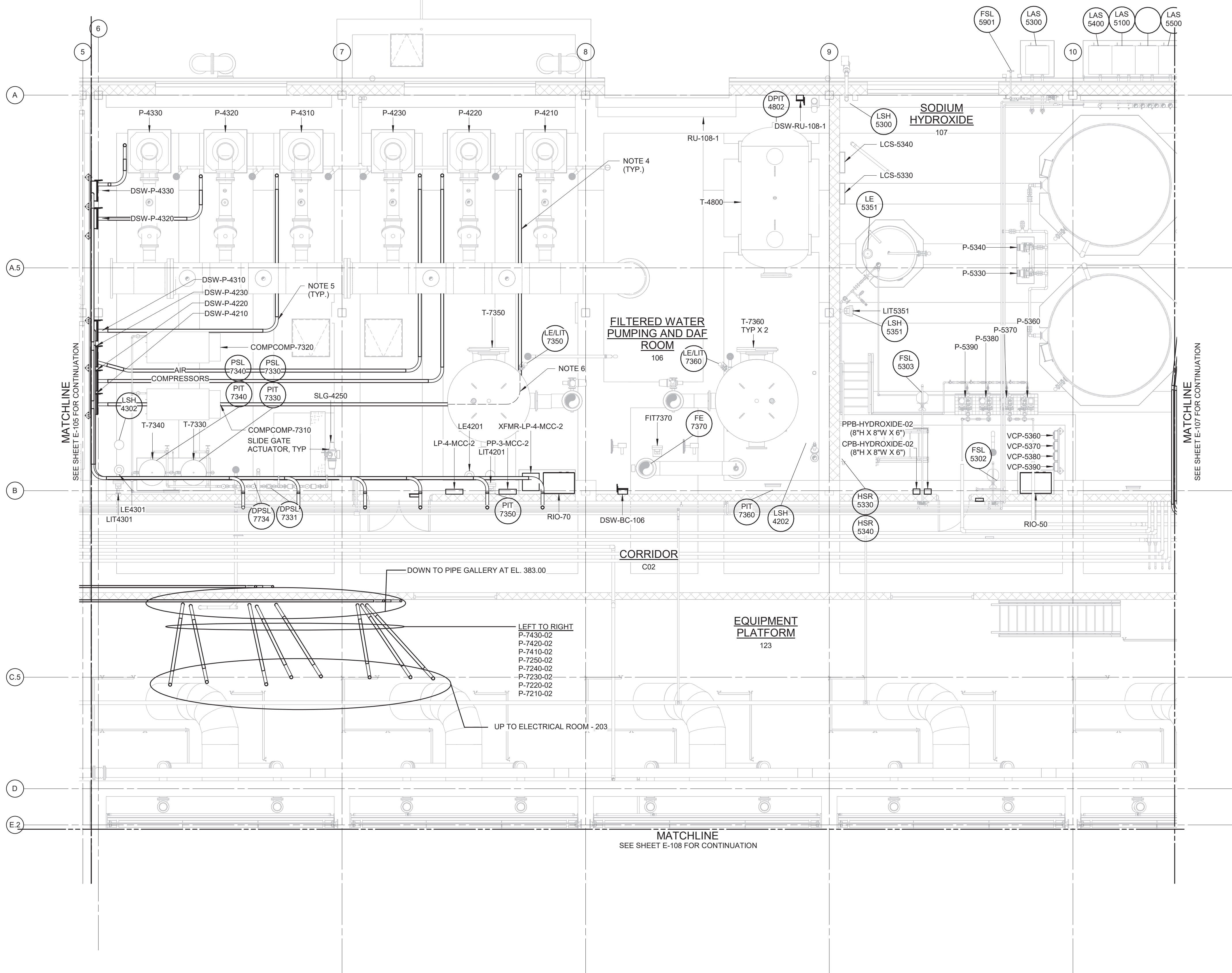
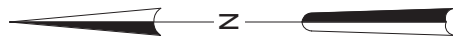
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 407.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-105

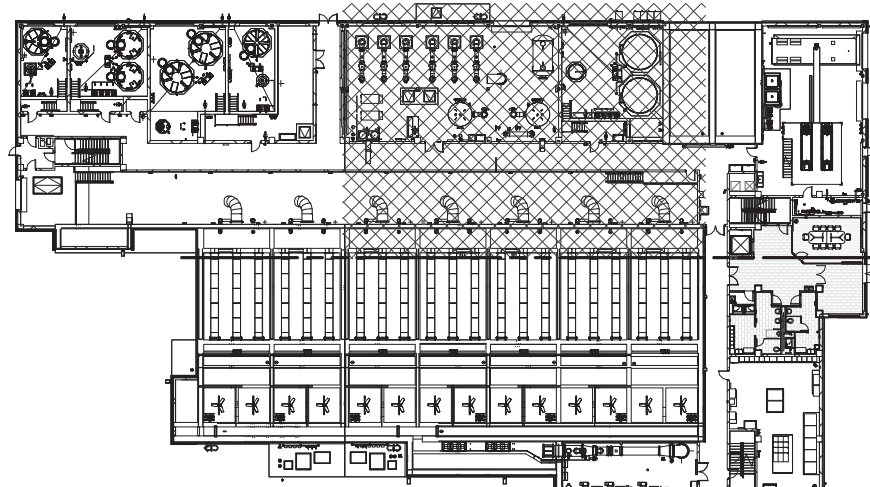


NOTES:

1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.
4. POWER SUPPLY CONDUITS FOR PUMPS P-4210, P-4220, P-4230, P-4310, P-4320, AND P-4330 TO BE EMBEDDED IN THE CONCRETE SLAB. CONDUITS SHALL BE ROUTED SUCH THAT NO CONDUITS PENETRATE THROUGH CONCRETE BEAMS OR COLUMN REINFORCING.
5. CONDUIT BEND RADII SHALL BE NO LESS THAN THE SPECIFIED DISTANCE IN SECTION 26 05 33.
6. CONDUIT EMBEDDED IN THE CONCRETE SLAB UNDER TANK T-7350

POWER PLAN AT EL 407.00 - AREA 2

3/16" = 1'-0"



3/16" = 1'-0"

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



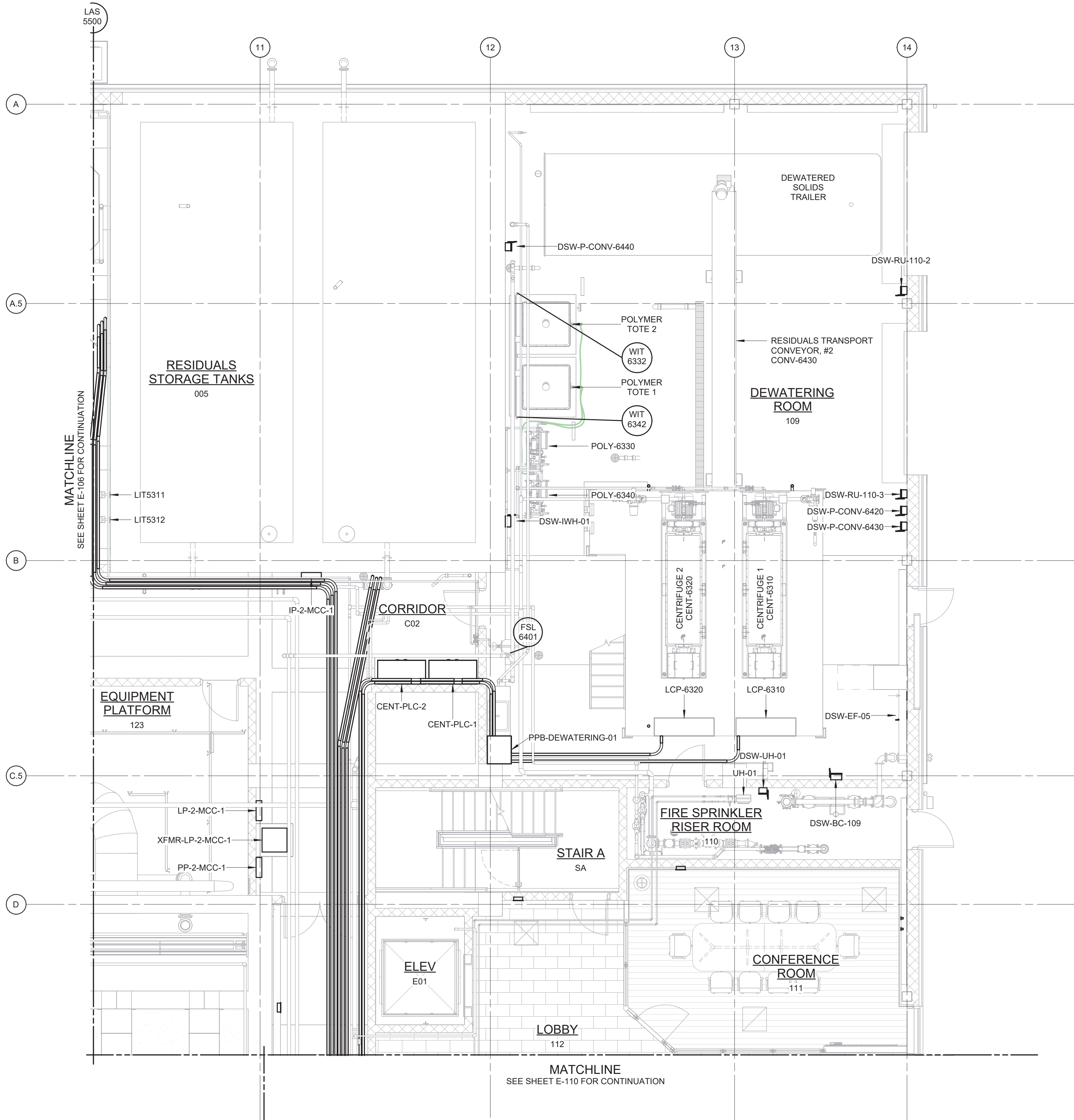
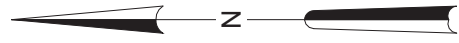
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

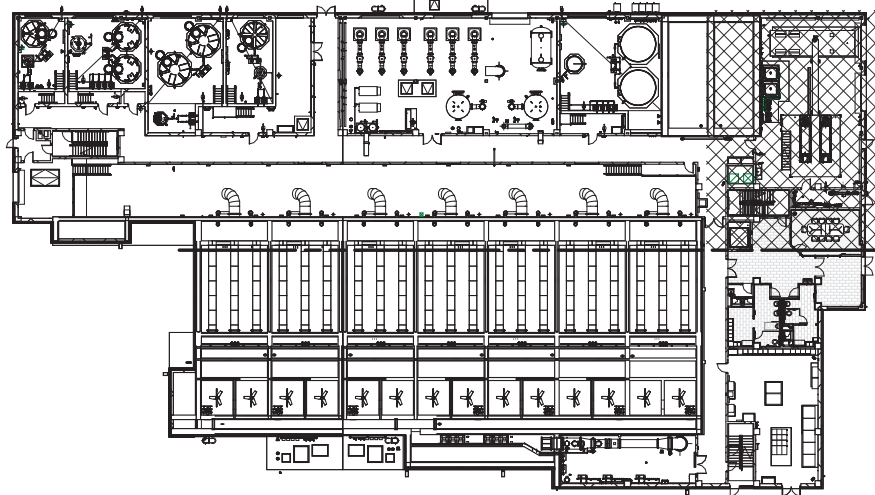
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 407.00 - AREA 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-106



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



3/16" = 1'-0"

POWER PLAN AT EL 407.00 - AREA 3
3/16" = 1'-0"

WARNING
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



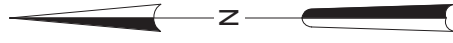
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

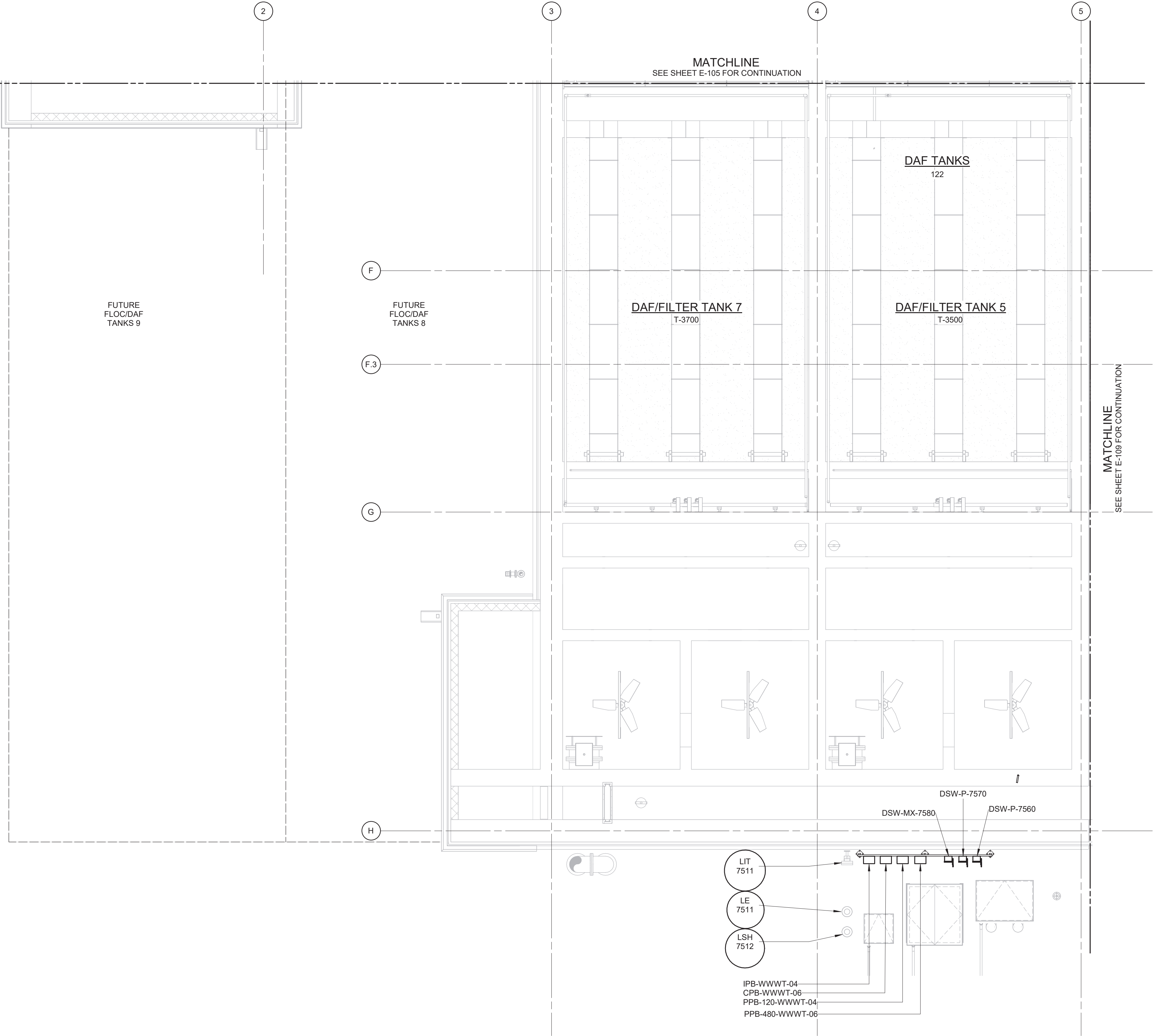
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 407.00 - AREA 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-107

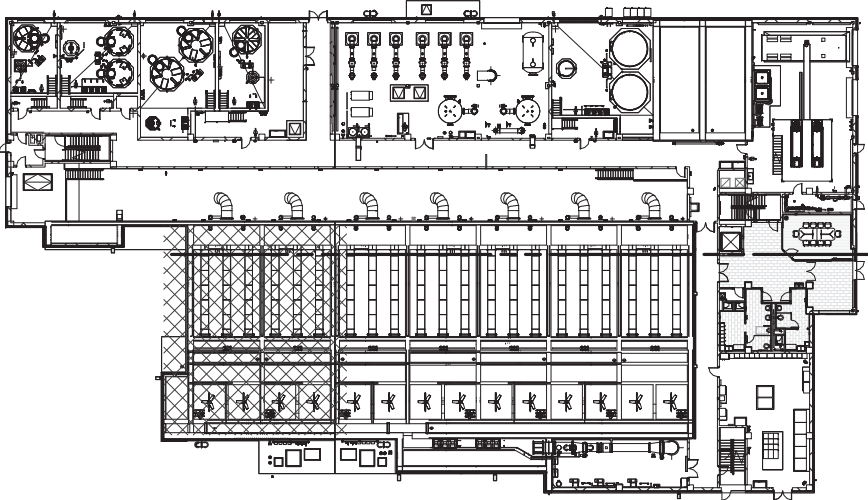


- NOTES:
1. NO ELECTRICAL WORK ON THIS PLAN.



POWER PLAN AT EL 407.00 - AREA 4

3/16" = 1'-0"



3/16" = 1'-0"

WARNING:
IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



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

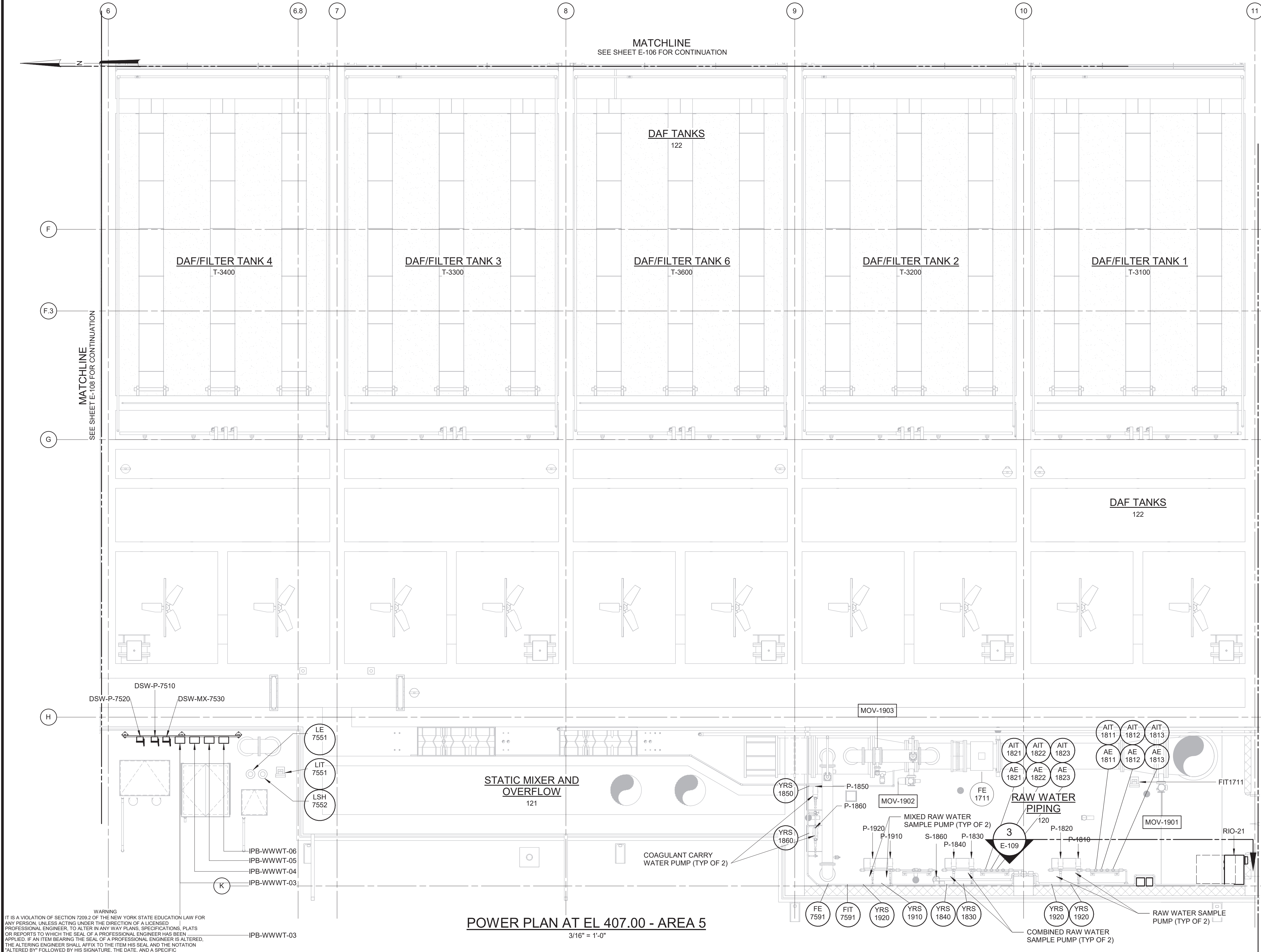
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 407.00 - AREA 4

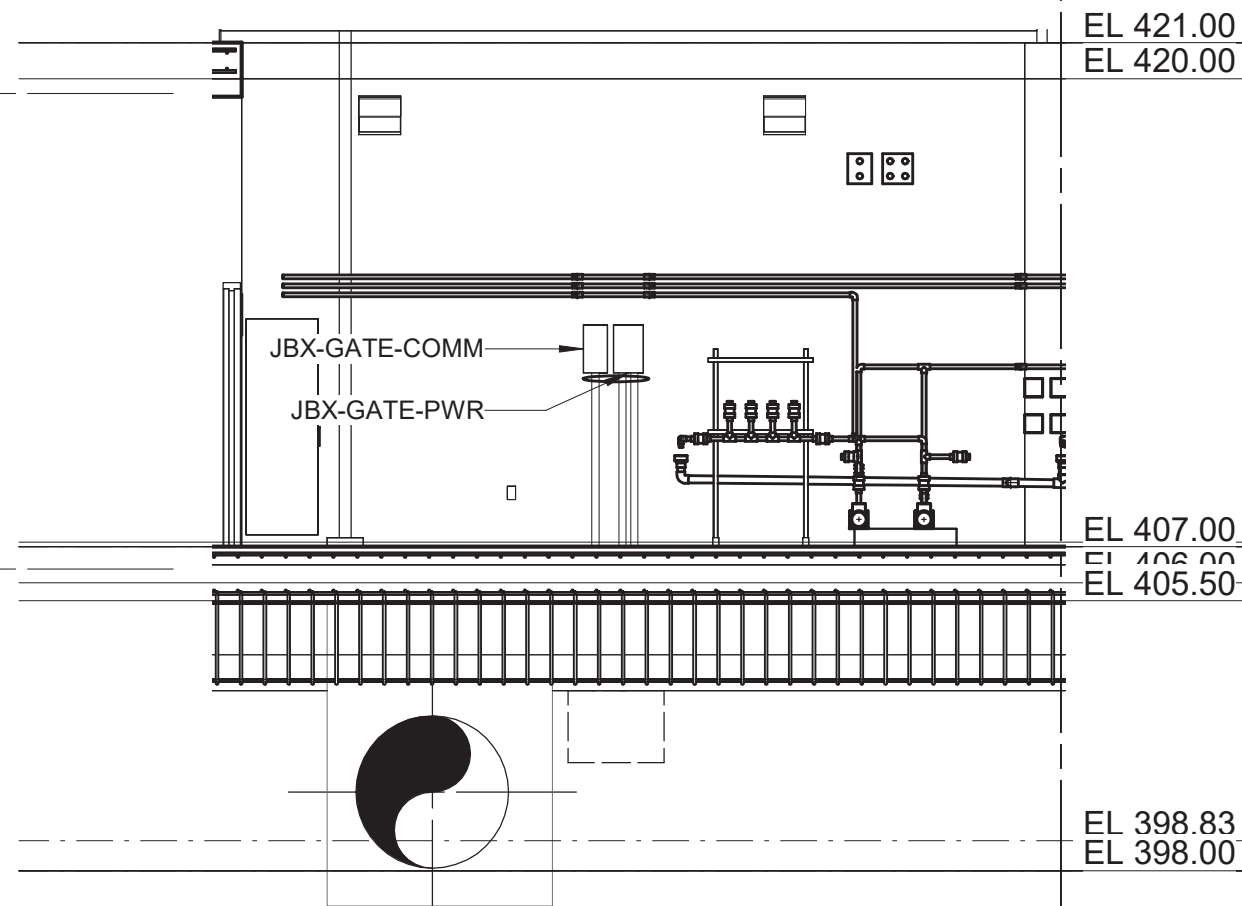
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-108

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4/15/2025 3:06:06 PM

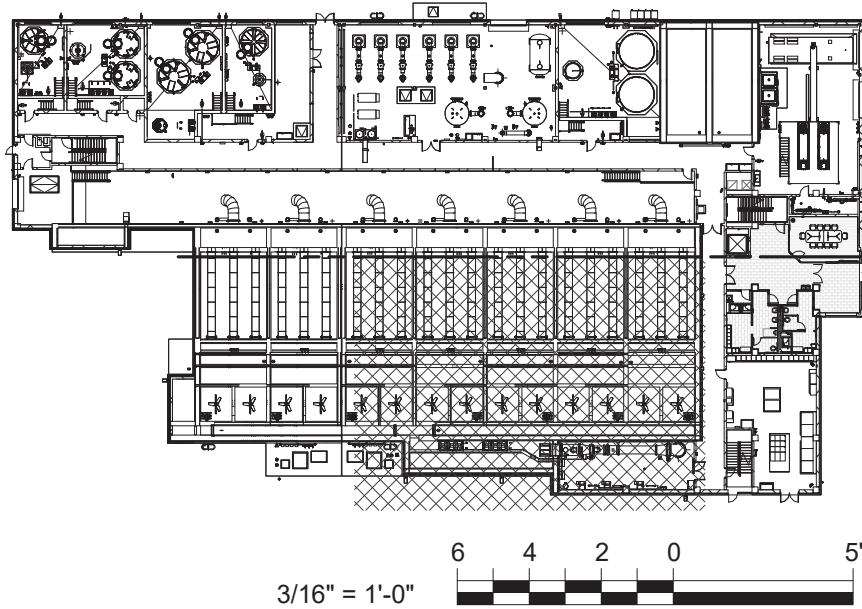


NOTES:

1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



Section 5
3/16" = 1'-0"



REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BID SET



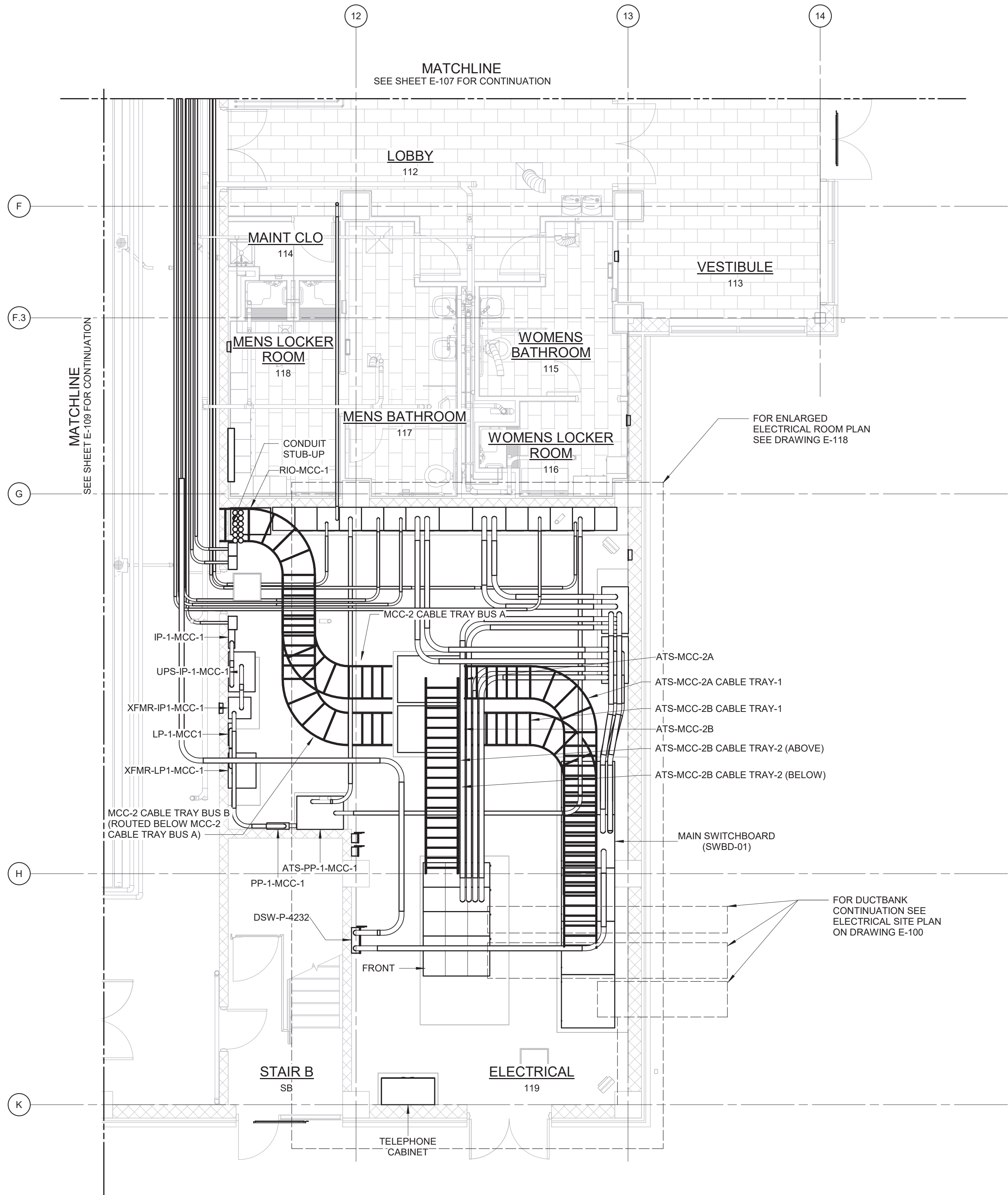
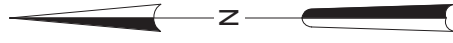
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

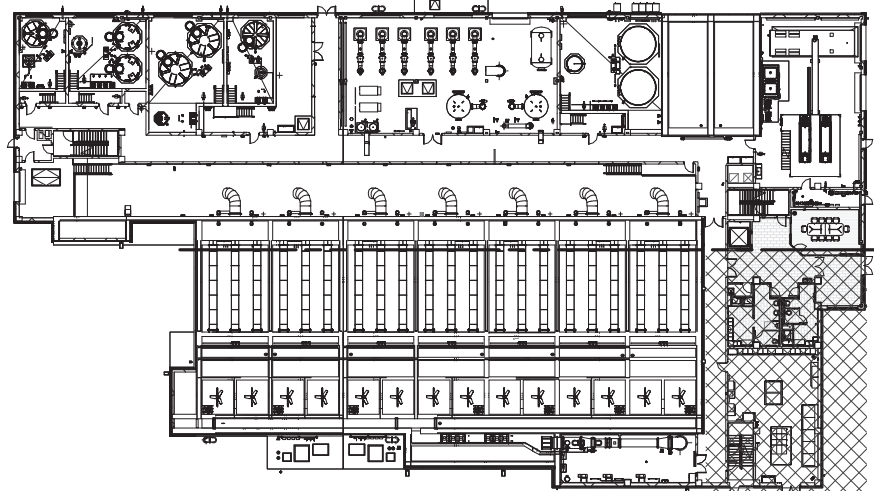
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 407.00 - AREA 5

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-109



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



3/16" = 1'-0"

POWER PLAN AT EL 407.00 - AREA 6
3/16" = 1'-0"

WARNING
IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	R. CHUNG
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

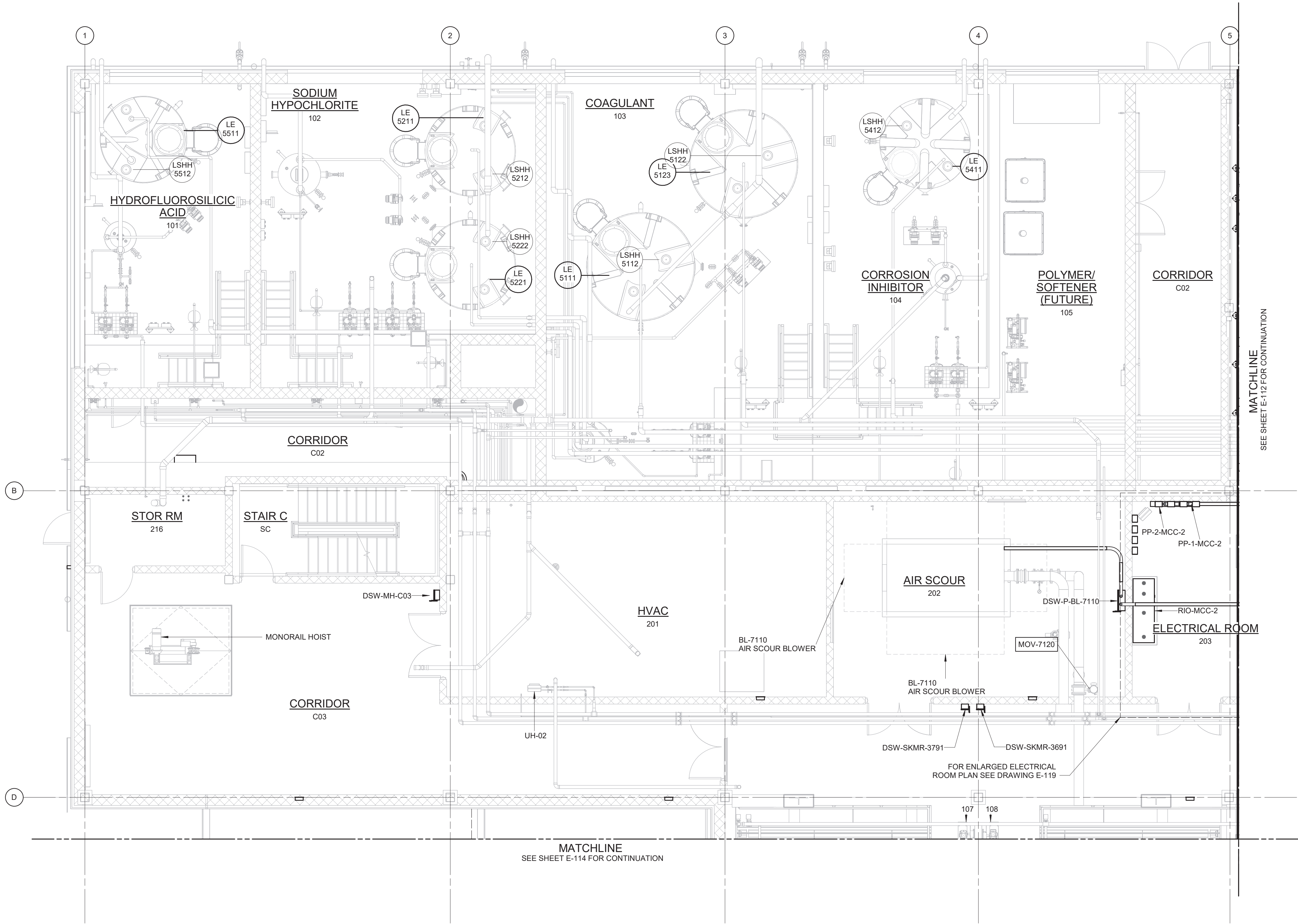
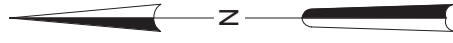
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 407.00 - AREA 6

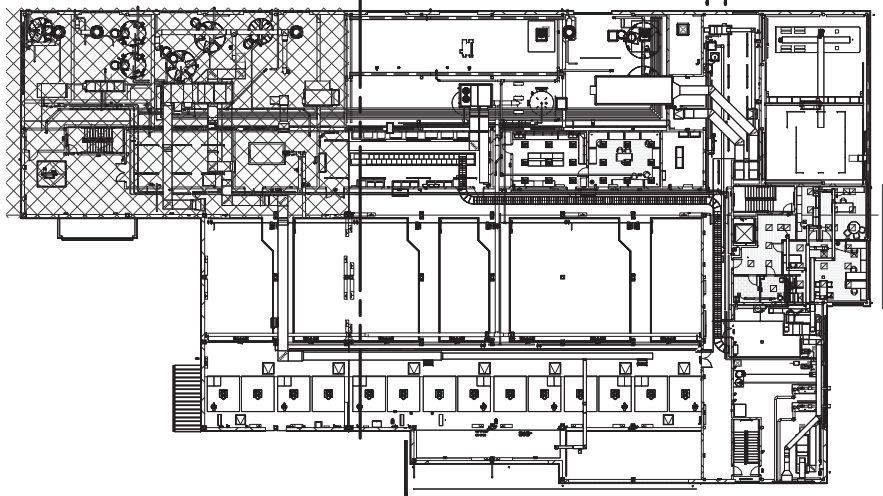
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-110



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.

MATCHLINE
SEE SHEET E-112 FOR CONTINUATION

MATCHLINE
SEE SHEET E-114 FOR CONTINUATION



3/16" = 1'-0"
6 4 2 0 5'

POWER PLAN AT EL 421.00 - AREA 1
3/16" = 1'-0"

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



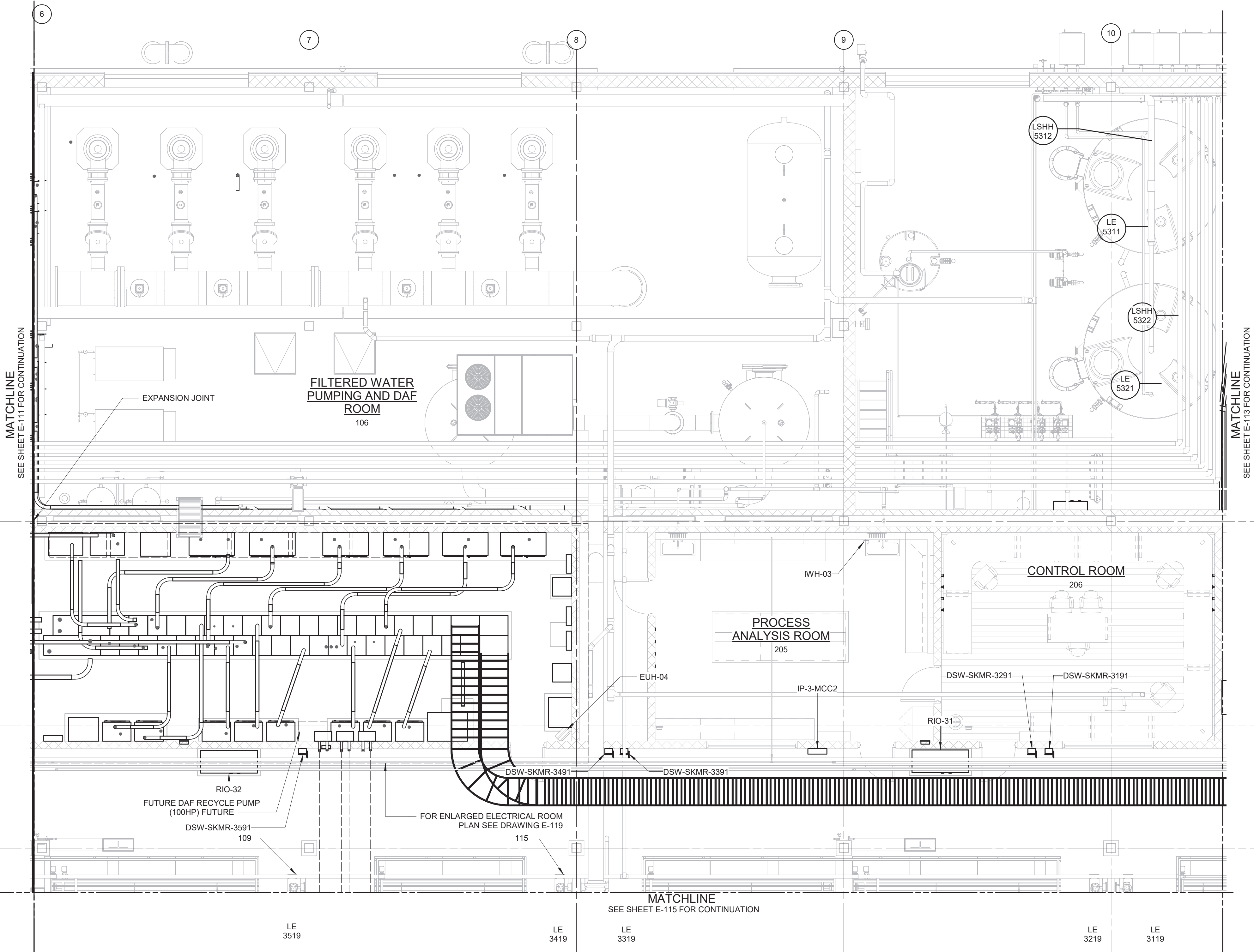
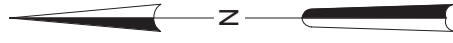
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

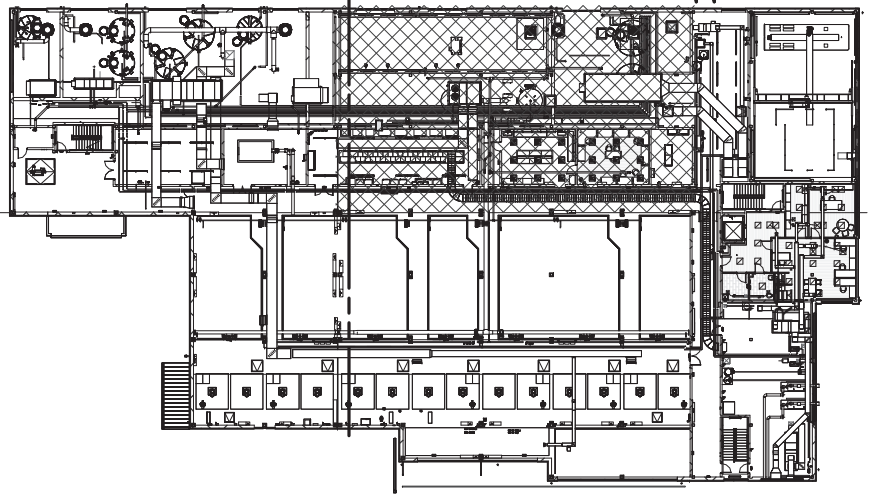
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 421.00 - AREA 1

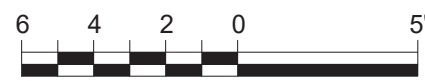
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-111



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



POWER PLAN AT EL 421.00 - AREA 2
3/16" = 1'-0"



WARNING:
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REV	ISSUED FOR	DATE	BY	PROJECT ENGINEER: R. FROST
				DESIGNED BY: Y. ABDALLA
				DRAWN BY: R. CHUNG
				CHECKED BY: G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

BID SET



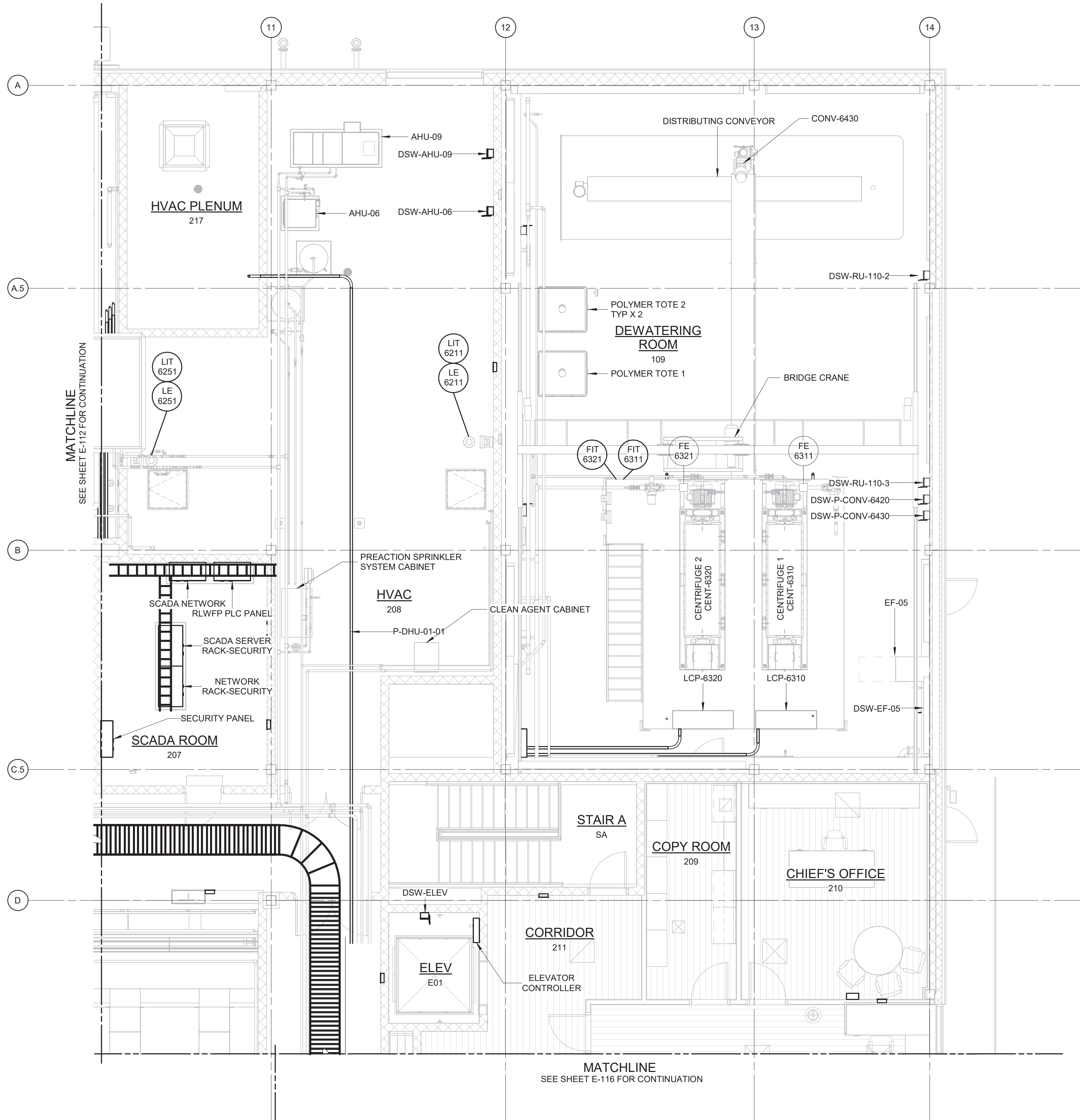
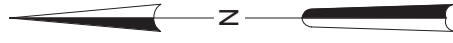
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

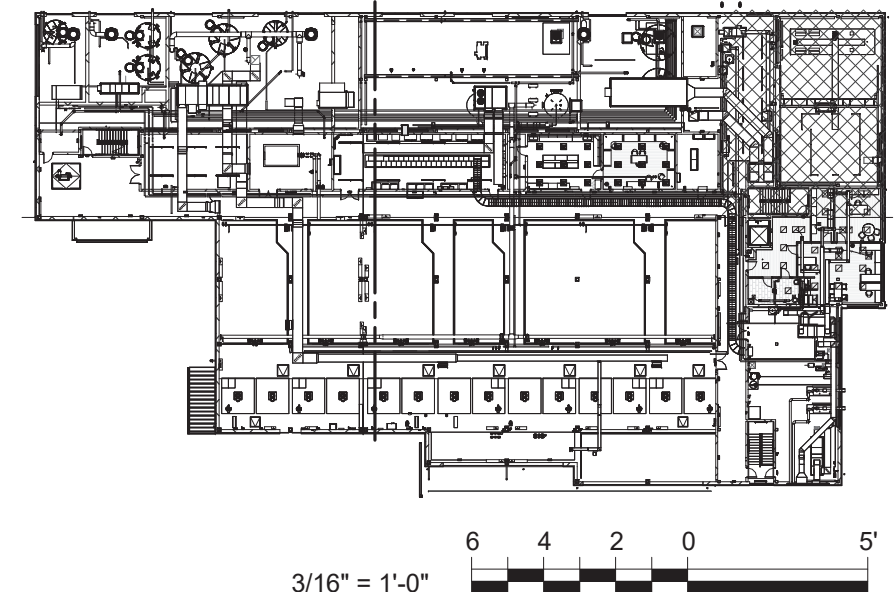
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 421.00 - AREA 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-112



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



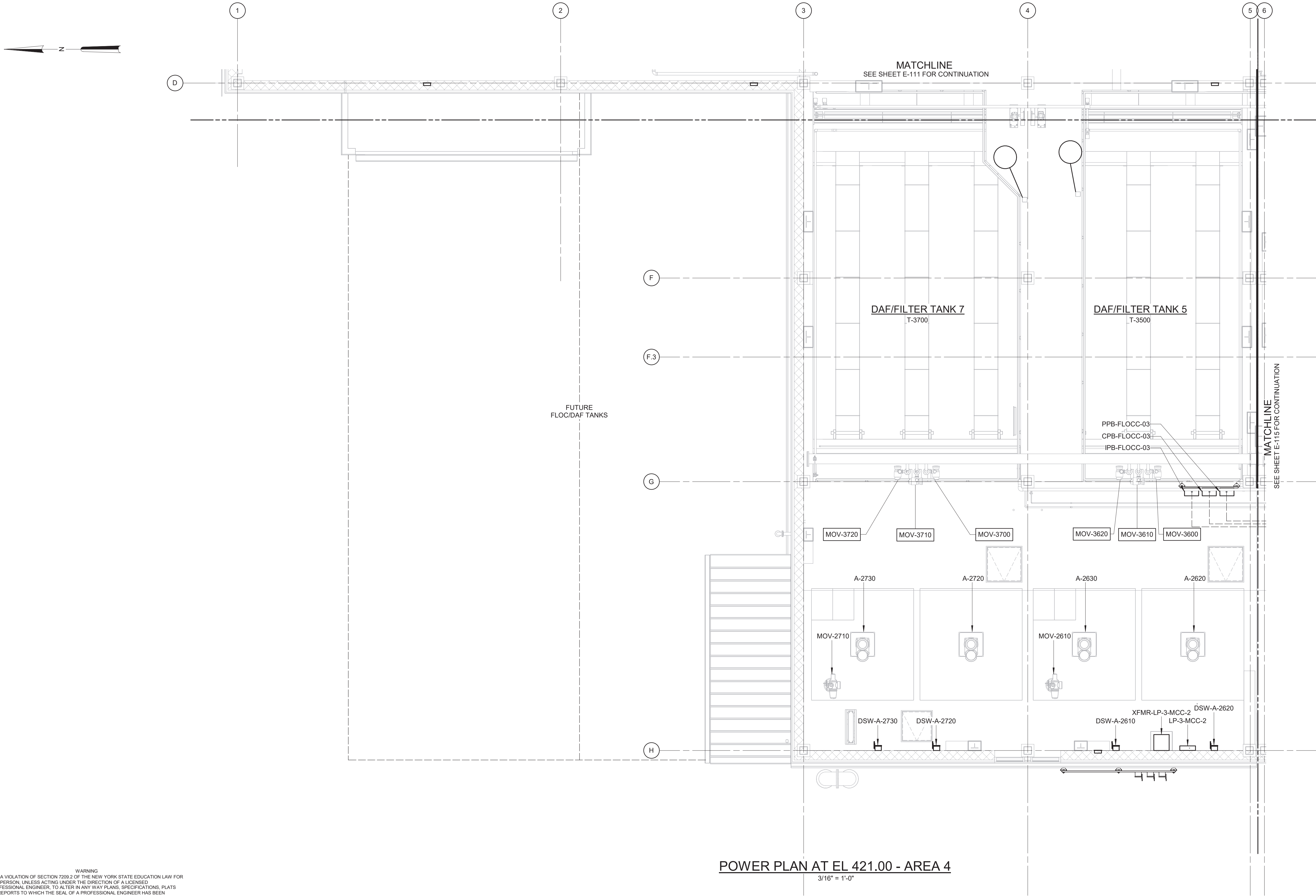
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

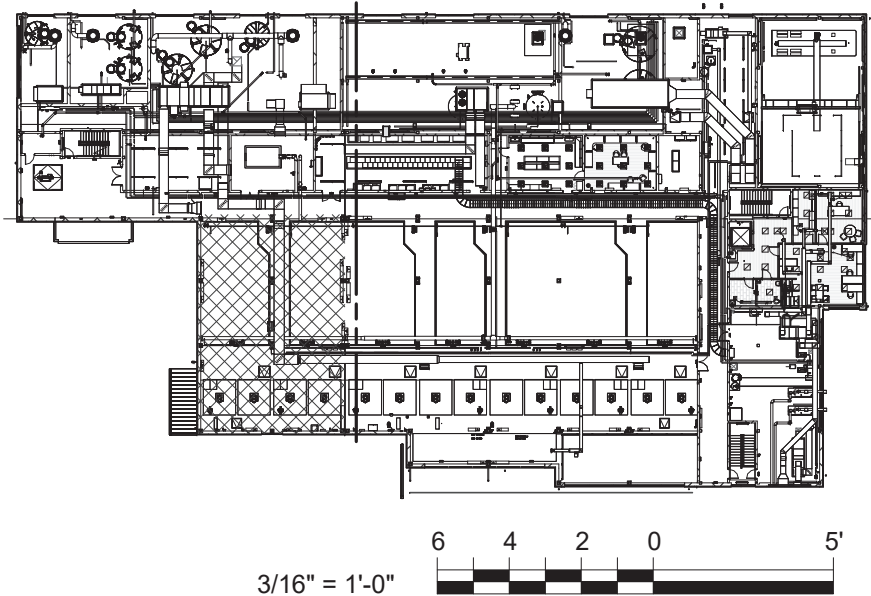
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 421.00 - AREA 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-113



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



POWER PLAN AT EL 421.00 - AREA 4

3/16" = 1'-0"

3/16" = 1'-0"

WARNING:
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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	R. CHUNG
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

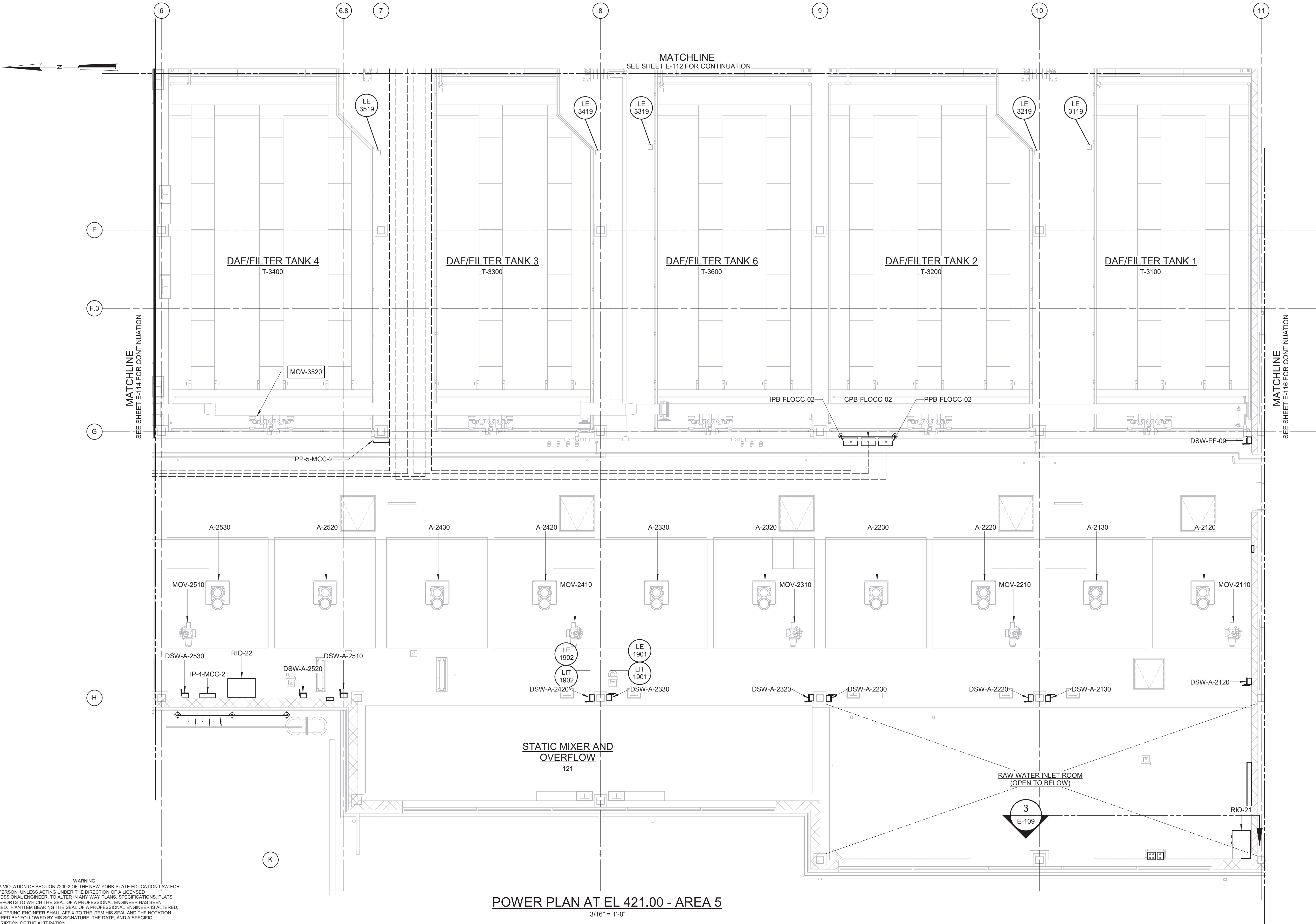
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

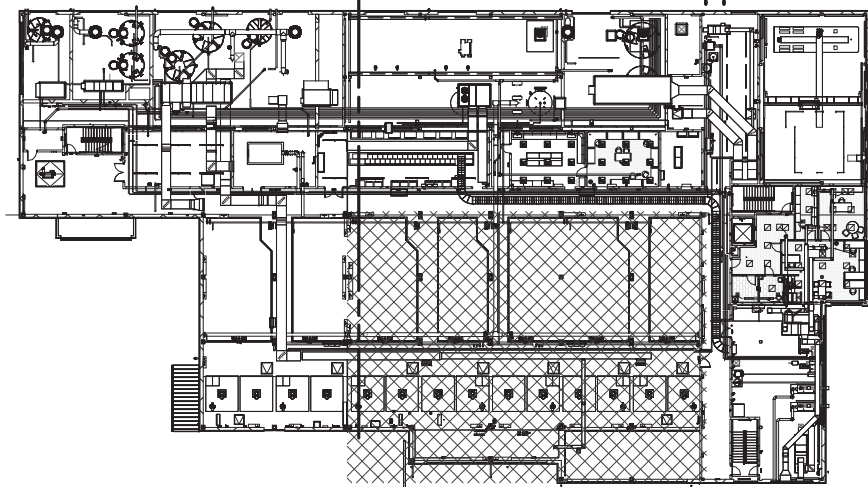
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 421.00 - AREA 4

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-114



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.



3/16" = 1'-0"
6 4 2 0 5'

POWER PLAN AT EL 421.00 - AREA 5
3/16" = 1'-0"

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



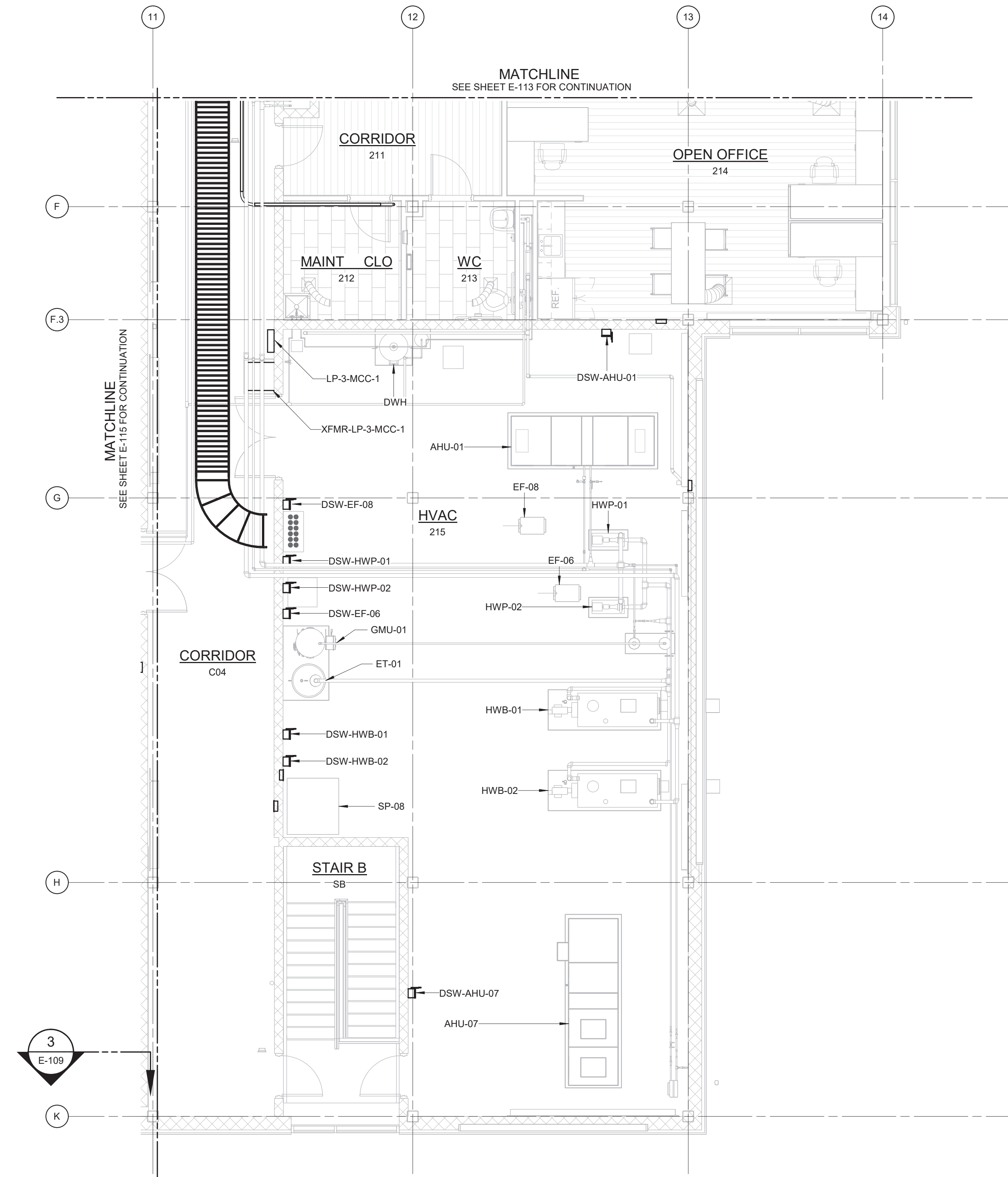
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

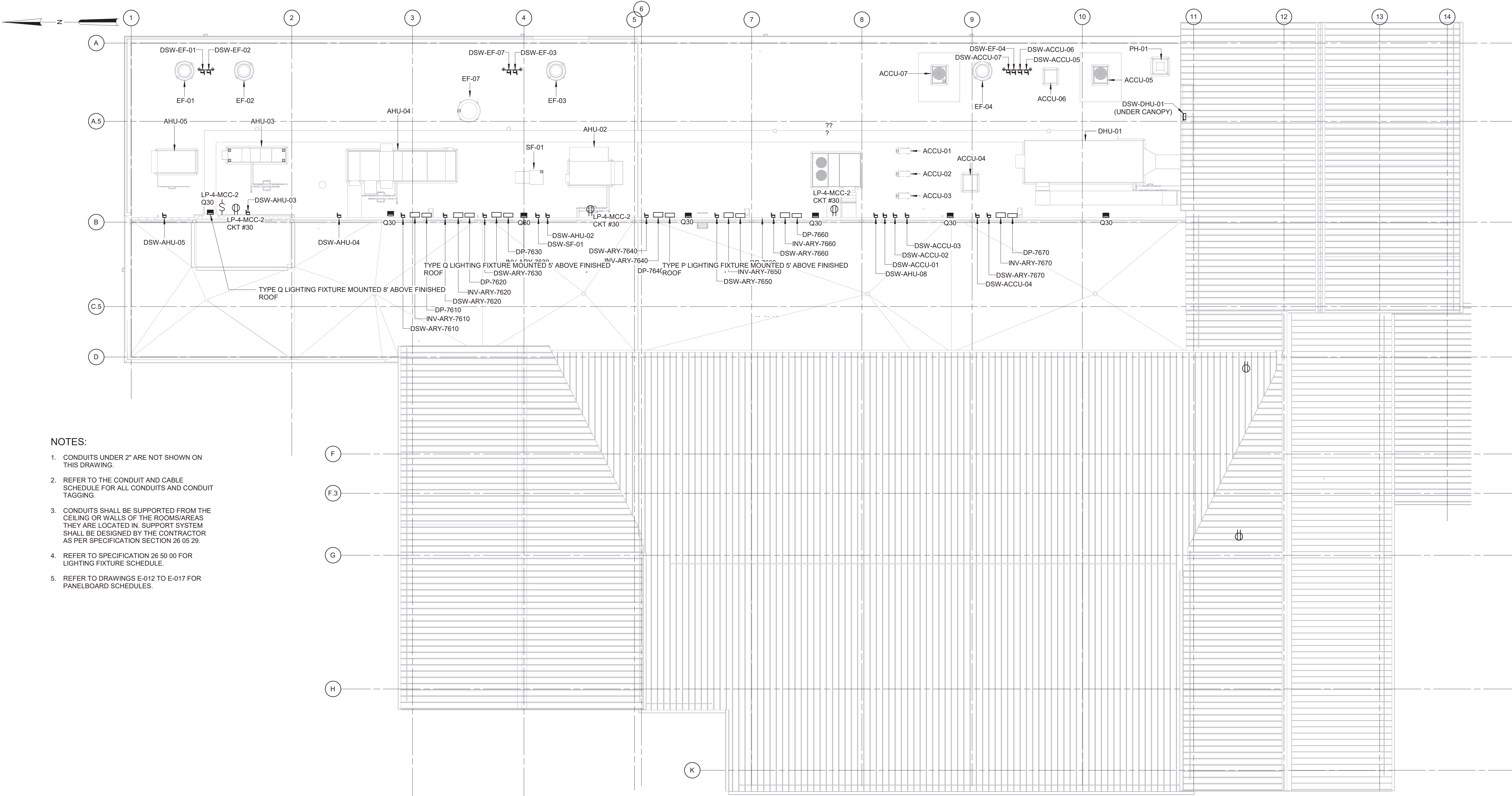
FILTRATION PLANT
ELECTRICAL
POWER PLAN - EL 421.00 - AREA 5

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-115

[illegible]

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
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: -10px;">1/2"</div> <div style="position: absolute; right: 0; bottom: -10px;">1</div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, black 50%, white 50%);"></div> </div> </div>

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-116



NOTES:

1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.
4. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
5. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.

POWER & LIGHTING - ROOF PLAN - SHEET 1

3/32" = 1'-0"

3/32" = 1'-0" 10 8 6 4 2 0 11'

Autodesk Docu/90388-000_Rye_Lake_Filtration/90388-000-WFP-E-117 4/15/2025 3:06:42 PM

WARNING:
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

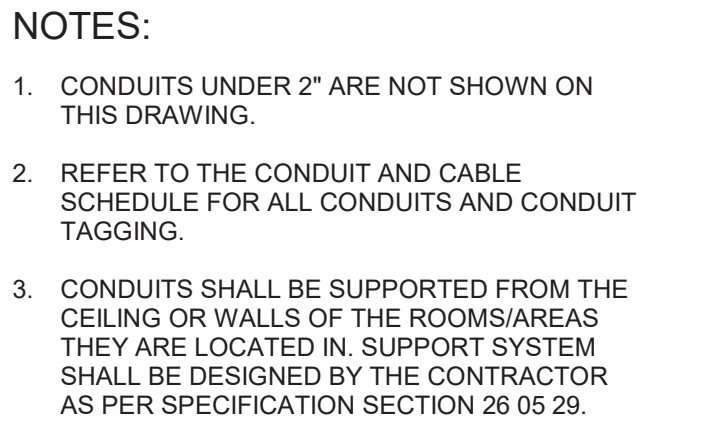
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
POWER AND LIGHTING PLAN - EL 436.50 - ROOF

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-117


$$3/8'' = 1'-0''$$
$$3/8" = 1'-0"$$


WARNING

BID SET

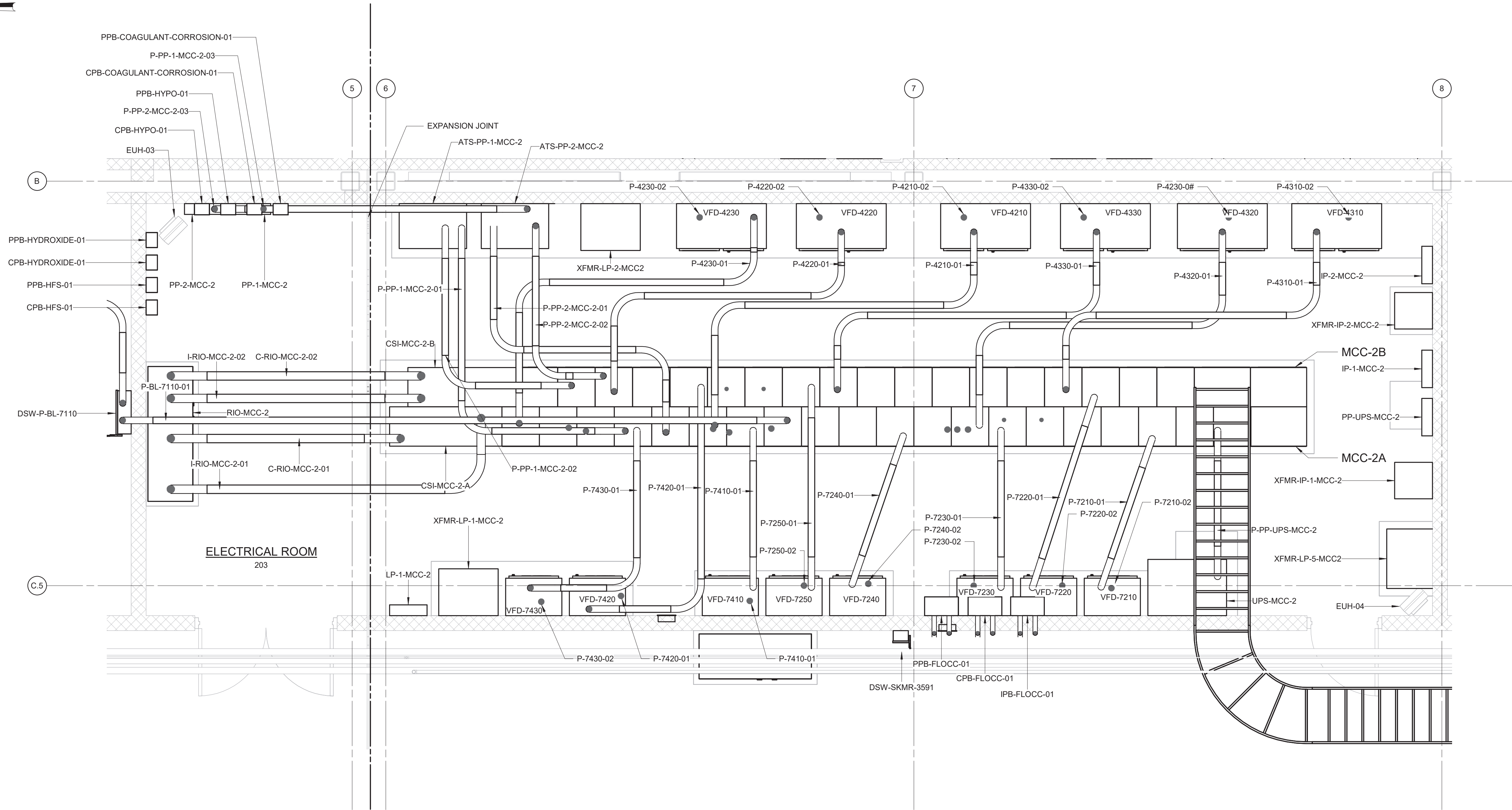
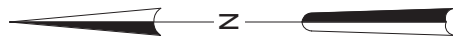
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

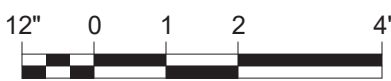
FILTRATION PLANT
ELECTRICAL
ENLARGED ELECTRICAL ROOM - EL 407.00

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-118



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO THE CONDUIT AND CABLE SCHEDULE FOR ALL CONDUITS AND CONDUIT TAGGING.
 3. CONDUITS SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.

ENLARGED ELEC RM PLAN - EL 421.00
3/8" = 1'-0"



3/8" = 1'-0"

Autodesk Docu/09388-000_Rye_Lake_Filtration/09388-000-WFP-E-119
4/15/2025 3:06:43 PM

WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

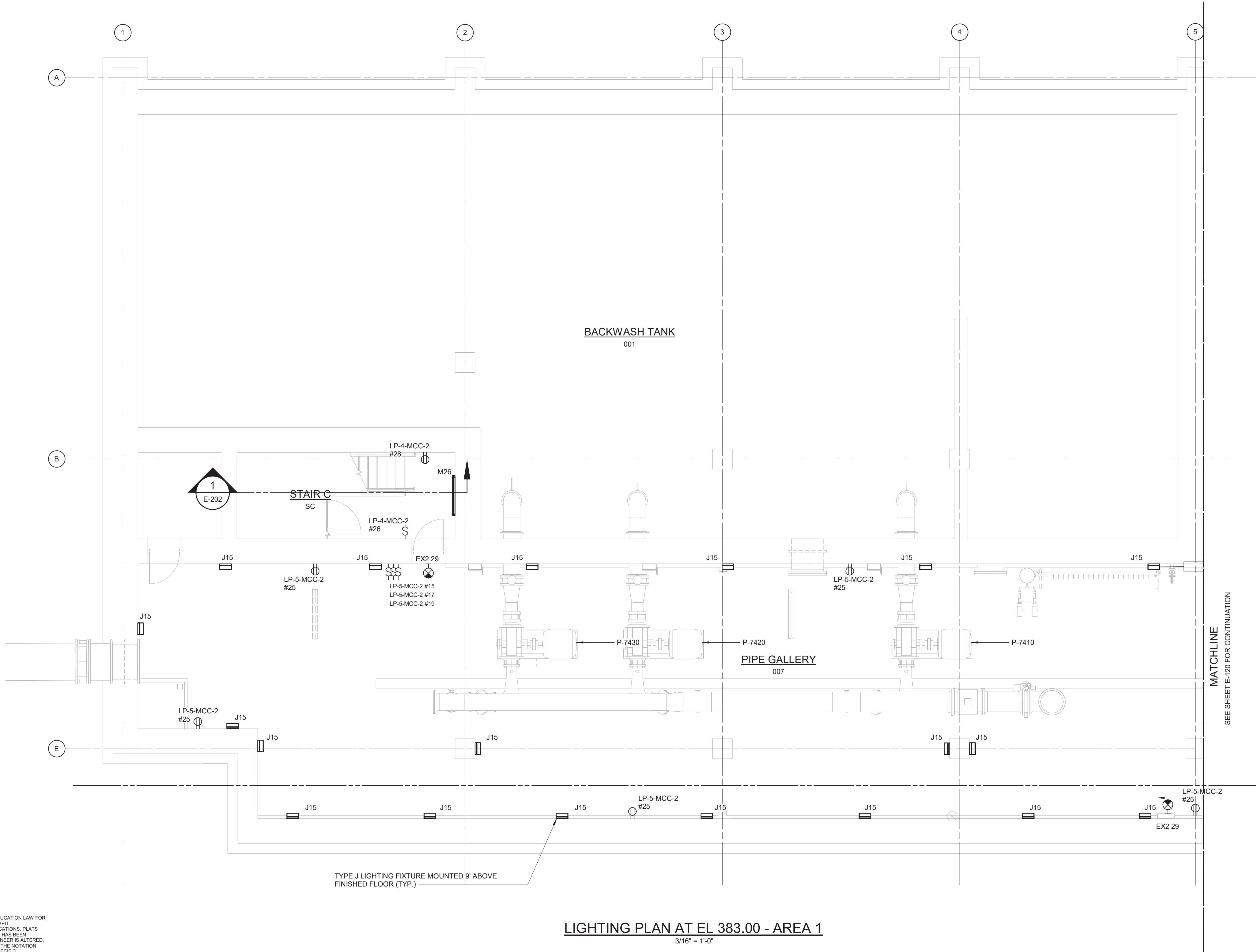
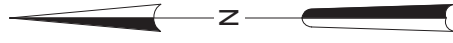
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

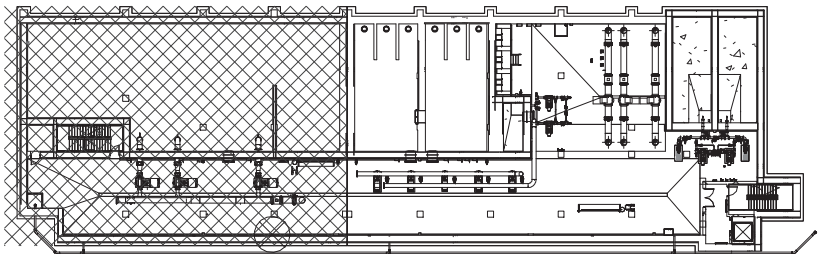
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
ENLARGED ELECTRICAL ROOM - EL 421.00

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-119



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. EXIT SIGNS AND LIGHT FIXTURES IN PIPE GALLERY SHALL BE POWERED FROM LP-5-MCC-2.
 4. LIGHT FIXTURES IN STAIR C SHALL BE POWERED FROM LP-4-MCC-2.



3/16" = 1'-0"

6 4 2 0 5'

LIGHTING PLAN AT EL 383.00 - AREA 1

3/16" = 1'-0"

WARNING:
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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

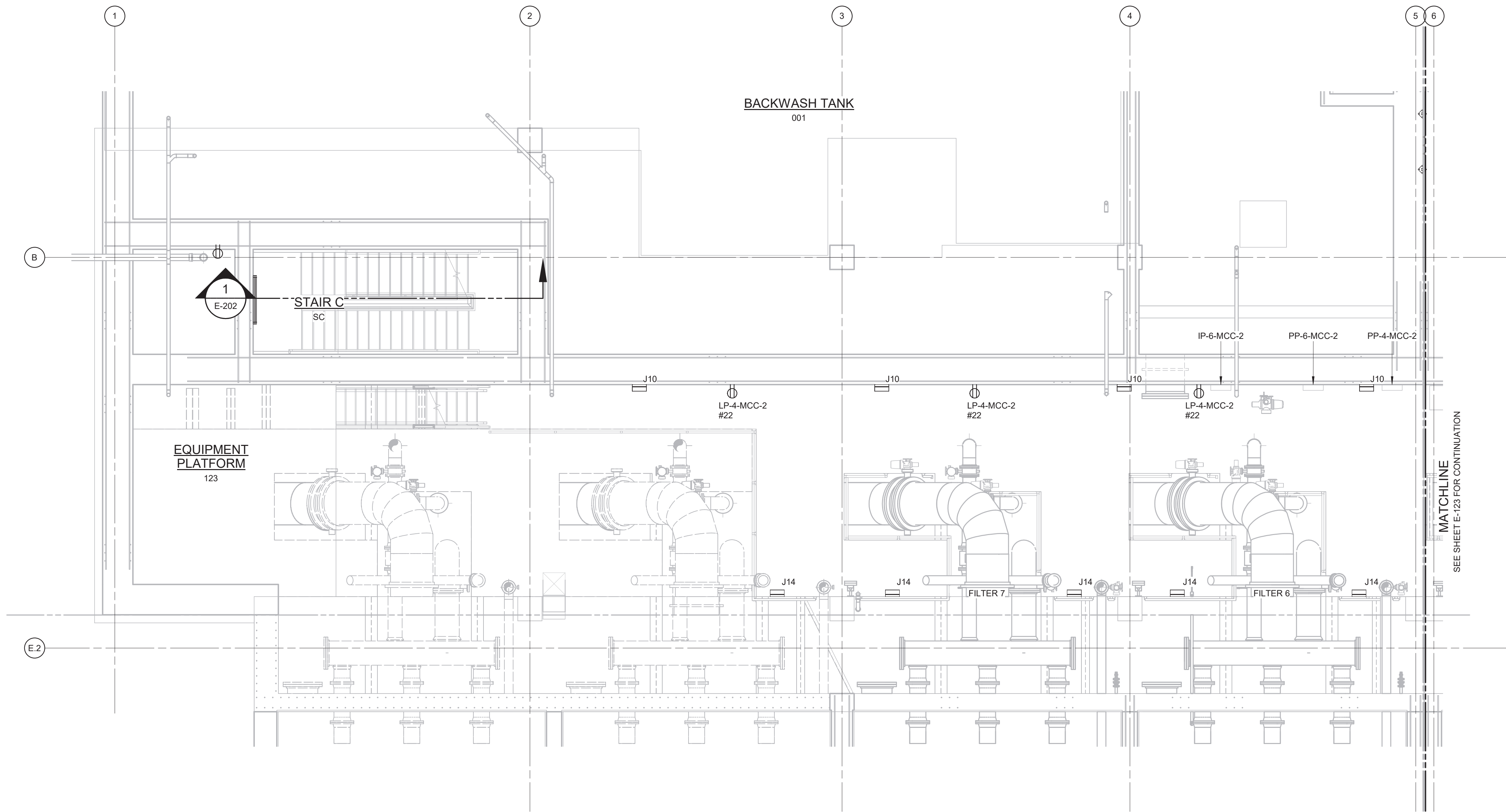
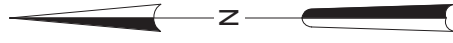
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 383.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-120

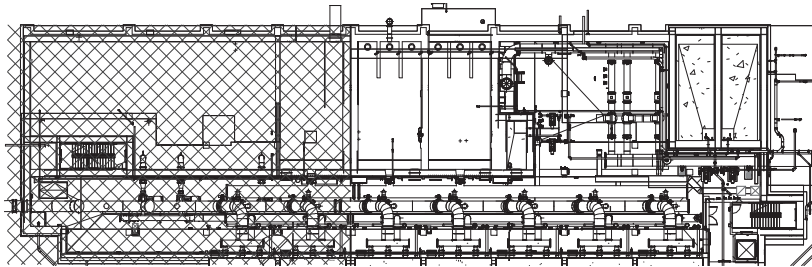


NOTES:

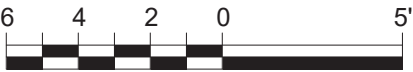
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
3. CONDUIT SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.
4. ALL "J" LIGHT FIXTURES SHALL BE MOUNTED 8'-6" AFF.

LIGHTING PLAN - EL 398.00 - AREA 1

3/16" = 1'-0"



3/16" = 1'-0"



WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

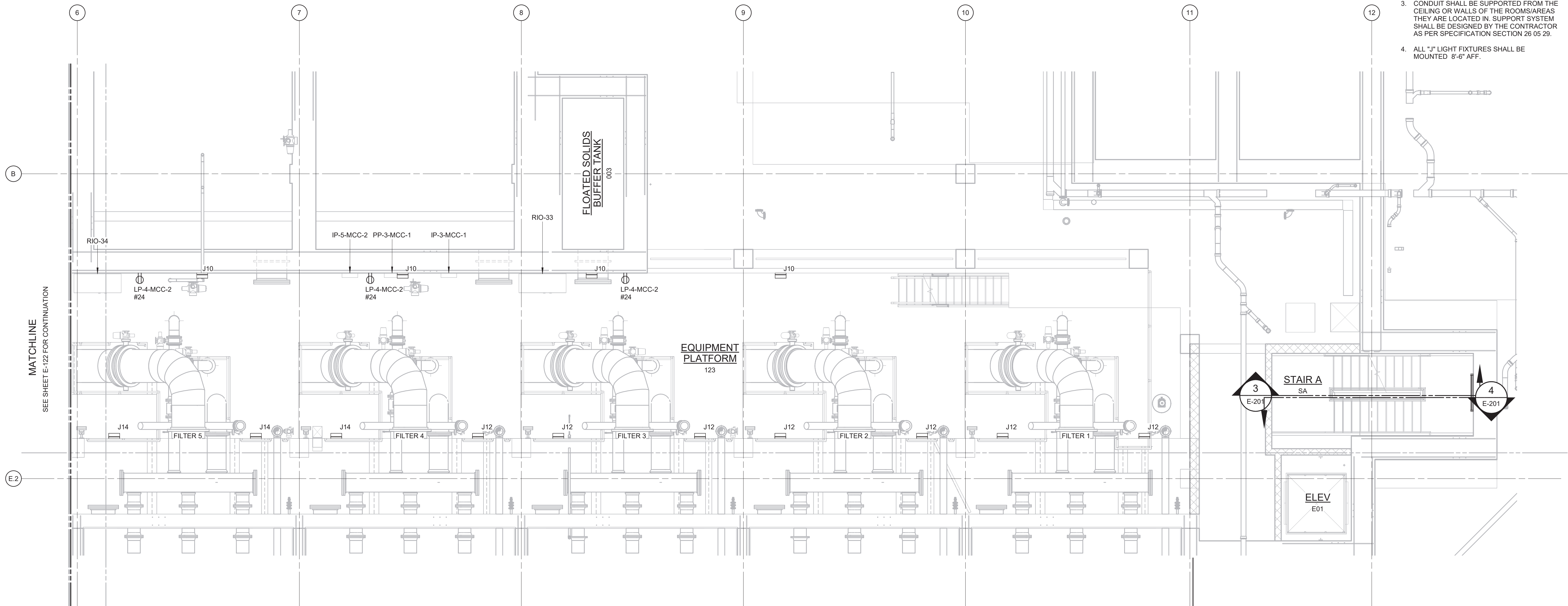
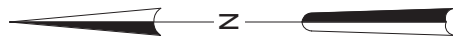
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

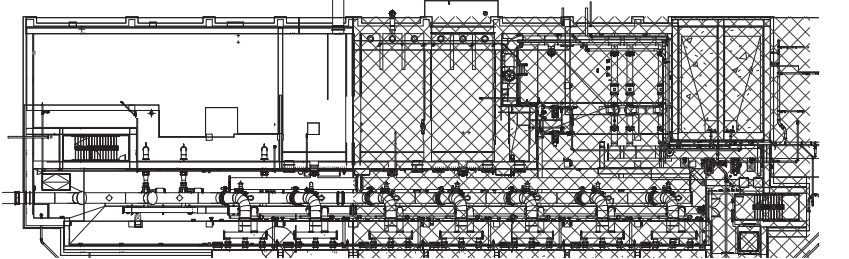
FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 398.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-122



- NOTES:
1. CONDUITS UNDER 2" ARE NOT SHOWN ON THIS DRAWING.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. CONDUIT SHALL BE SUPPORTED FROM THE CEILING OR WALLS OF THE ROOMS/AREAS THEY ARE LOCATED IN. SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AS PER SPECIFICATION SECTION 26 05 29.
 4. ALL "J" LIGHT FIXTURES SHALL BE MOUNTED 8'-6" AFF.

LIGHTING PLAN - EL 398.00 - AREA 2 & 3
3/16" = 1'-0"



3/16" = 1'-0"

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



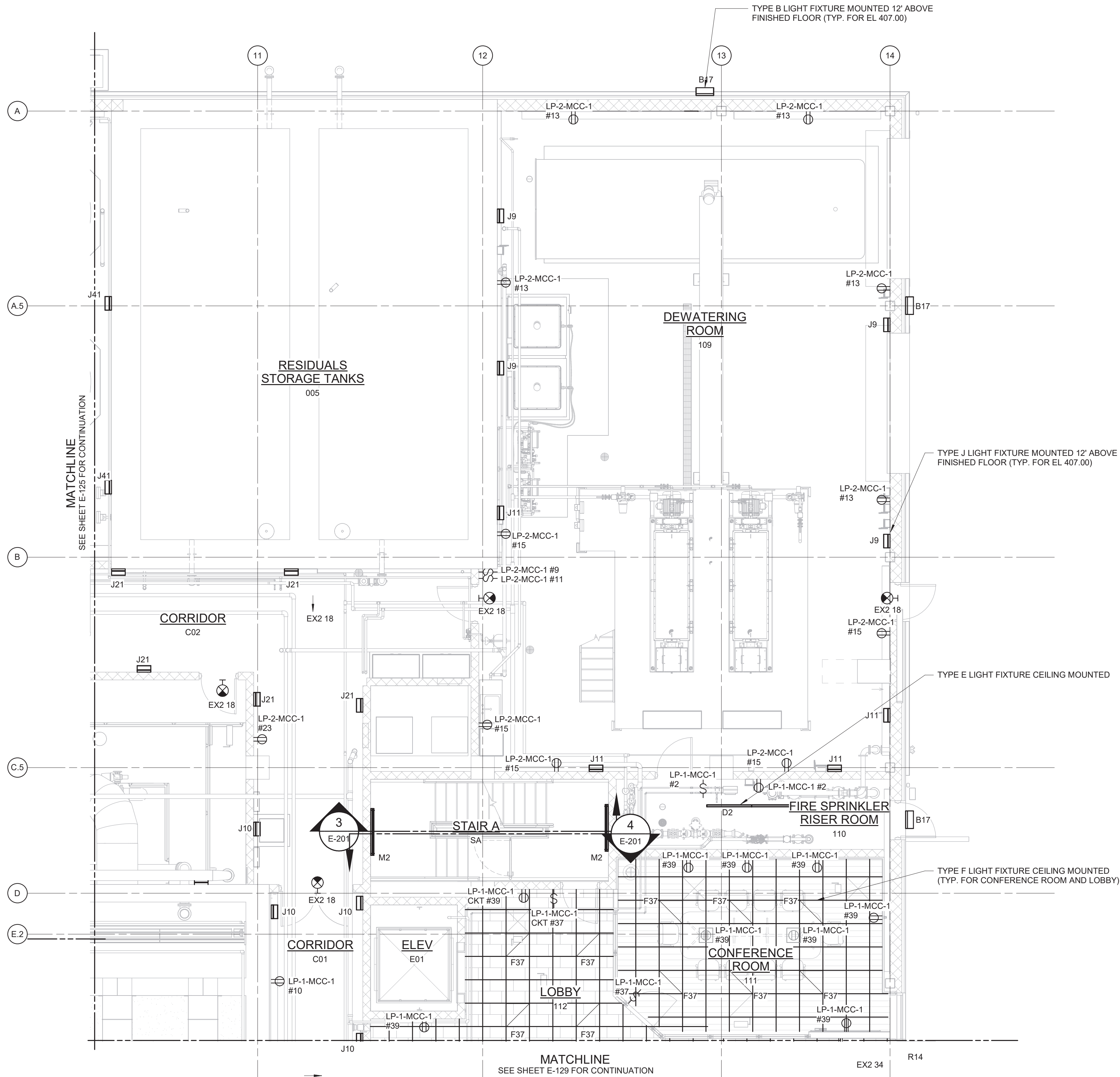
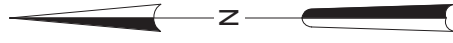
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

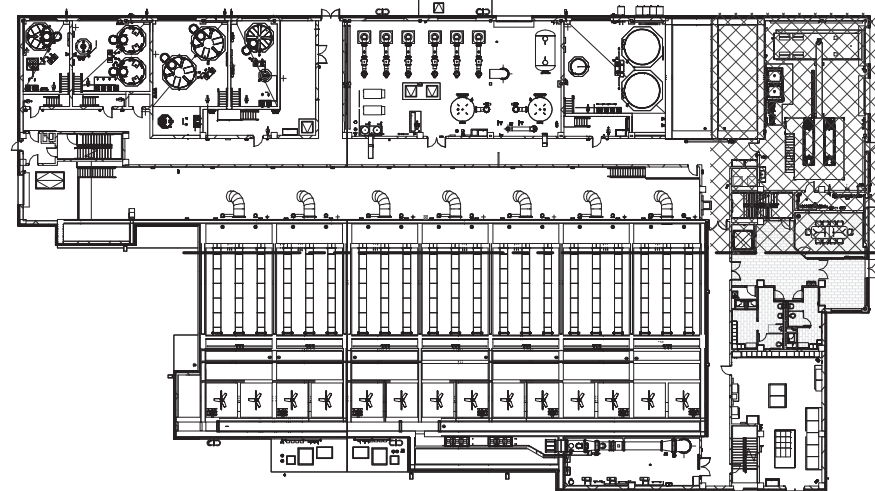
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 398.00 - AREA 2 & 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-123



- NOTES:
- REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 - REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 - LIGHT FIXTURES IN CORRIDOR (C02), DEWATERING ROOM, EXIT SIGNS, AND BUILDING EXTERIOR SHALL BE POWERED FROM LP-2-MCC-1. LIGHT FIXTURES IN CONFERENCE ROOM, LOBBY, CORRIDOR (C01), AND STAIR A SHALL BE POWERED FROM LP-1-MCC-1. LIGHT FIXTURES IN SODIUM HYDROXIDE ROOM SHALL BE POWERED FROM LP-4-MCC-2.



LIGHTING PLAN AT EL 407.00 - AREA 3

3/16" = 1'-0"

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

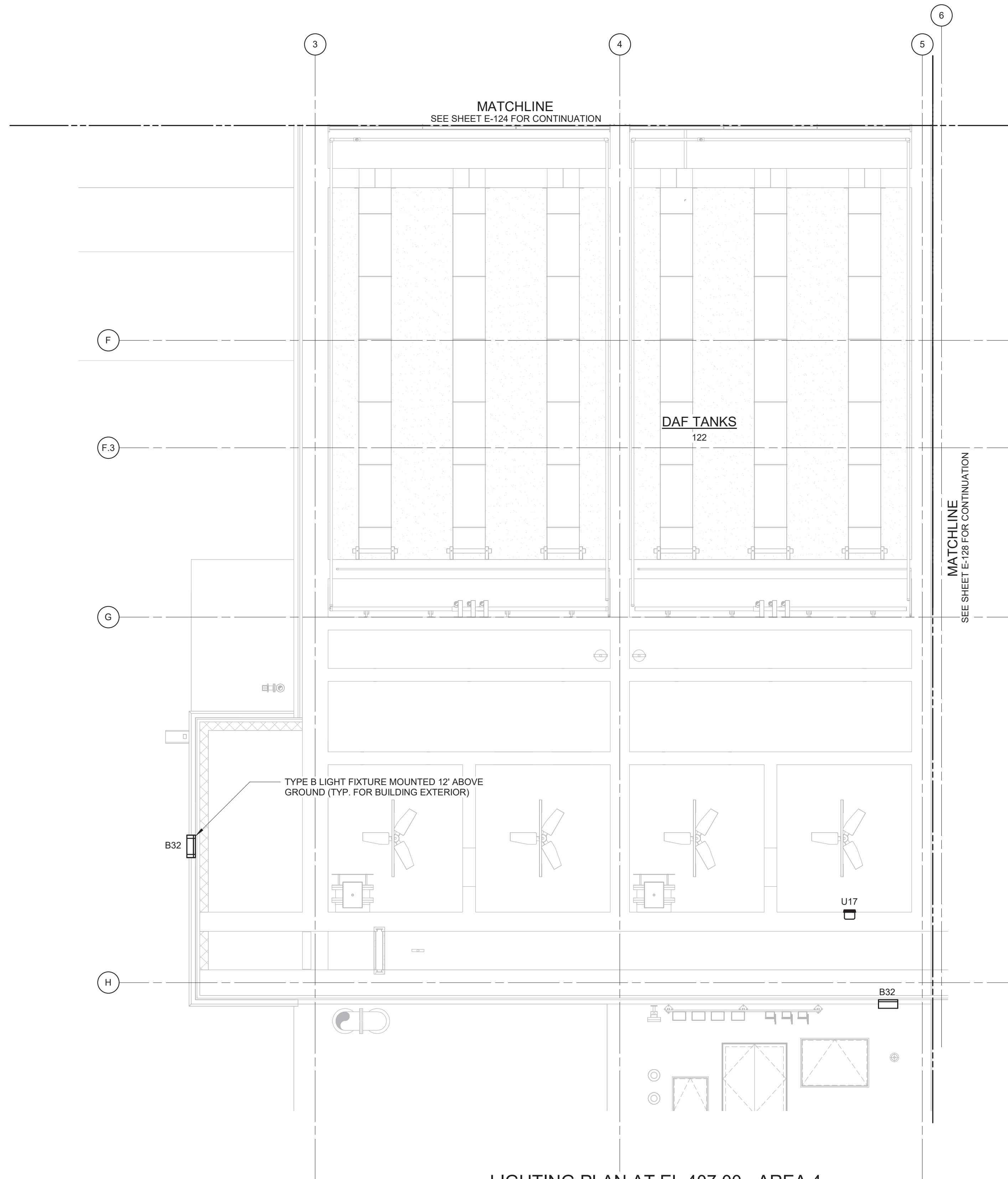
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY


FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 407.00 - AREA 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-126


$$3/16'' = 1'-0''$$

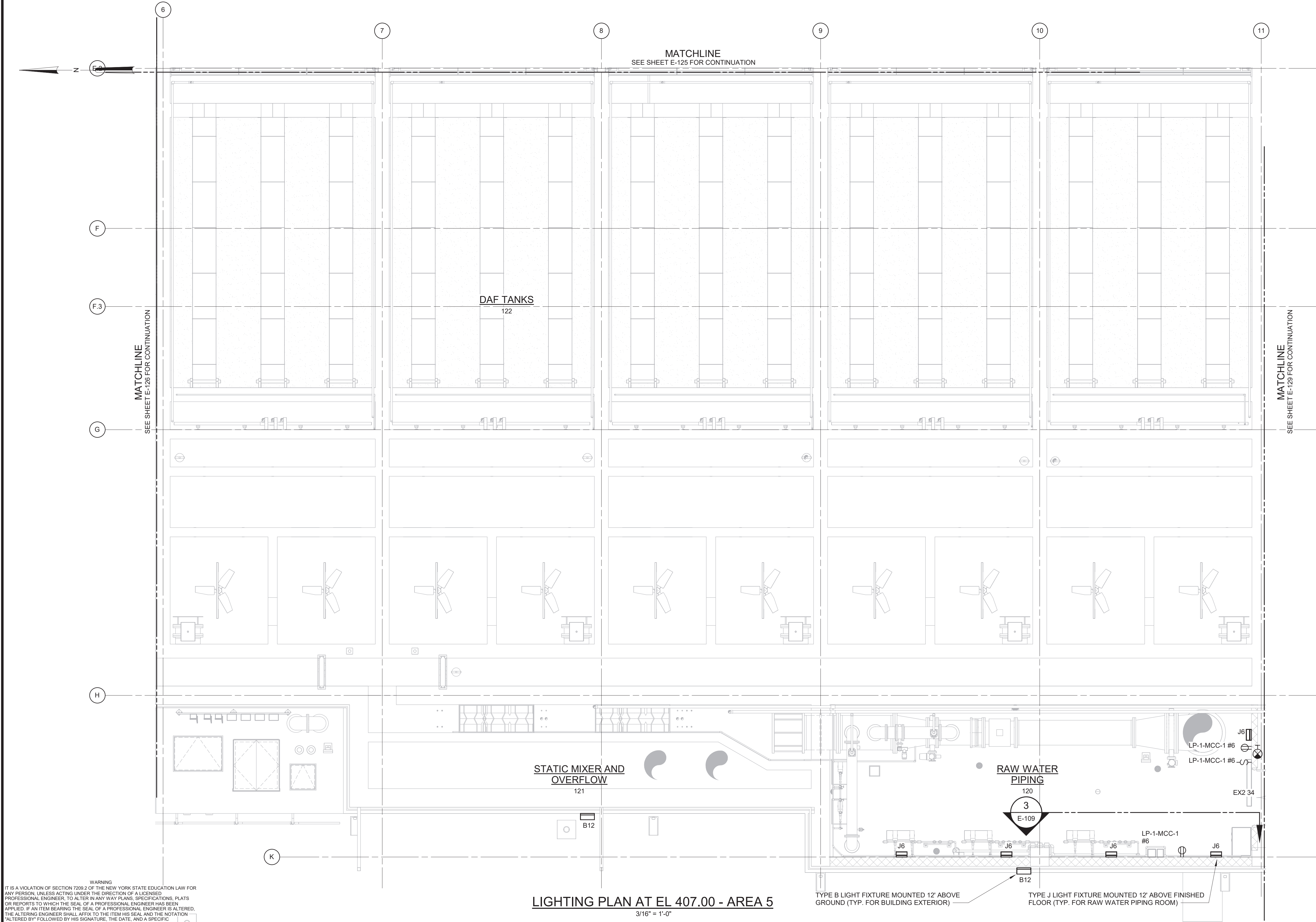
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-127

REV	ISSUED FOR	DATE	BY

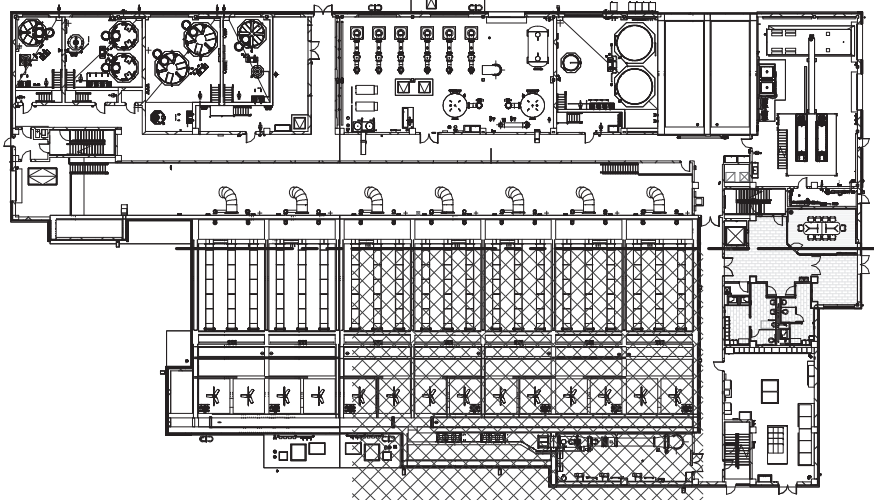
PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div> 0 1/2" 1  </div>

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

Autodesk Doc/09388-000_Rye_Lake_Filtration/09388-000-WFP-E-14
4/15/2025 3:07:30 PM



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. EXIT SIGNS AND LIGHT FIXTURES IN RAW WATER PIPING ROOM AND BUILDING EXTERIOR SHALL BE POWERED FROM LP-1-MCC-1.



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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



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

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

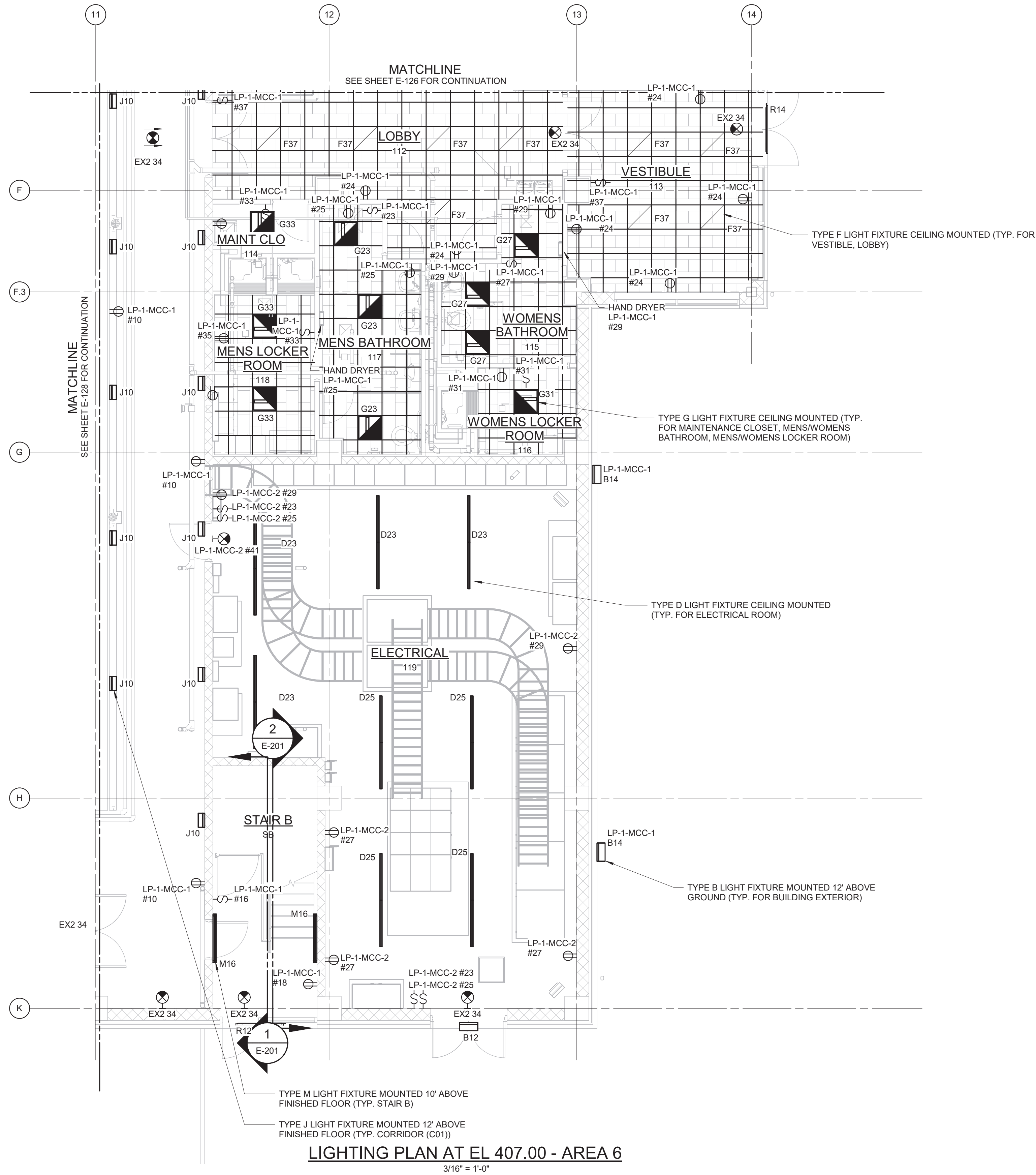
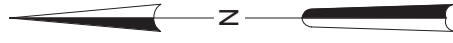
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 407.00 - AREA 5

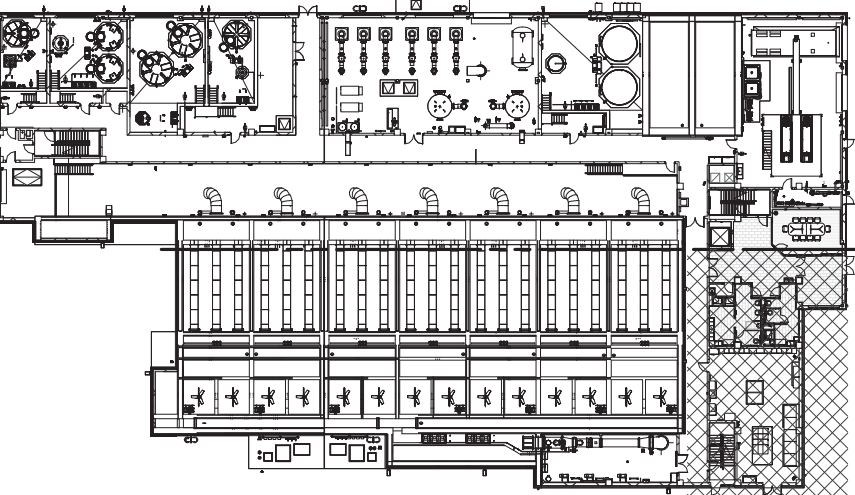
3/16" = 1'-0" FEB 2025

HAZEN NO.: 90388-000
CONTRACT NO.: A1364-A
DRAWING NUMBER:

E-128




- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN ELECTRICAL ROOM SHALL BE POWERED FROM LP-1-MCC-2. EXIT SIGNS AND ALL OTHER LIGHT FIXTURES SHALL BE POWERED FROM LP-1-MCC-1.



3/16" = 1'-0"

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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1" 
REV	ISSUED FOR	DATE	BY		

BID SET



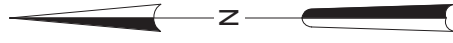
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HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

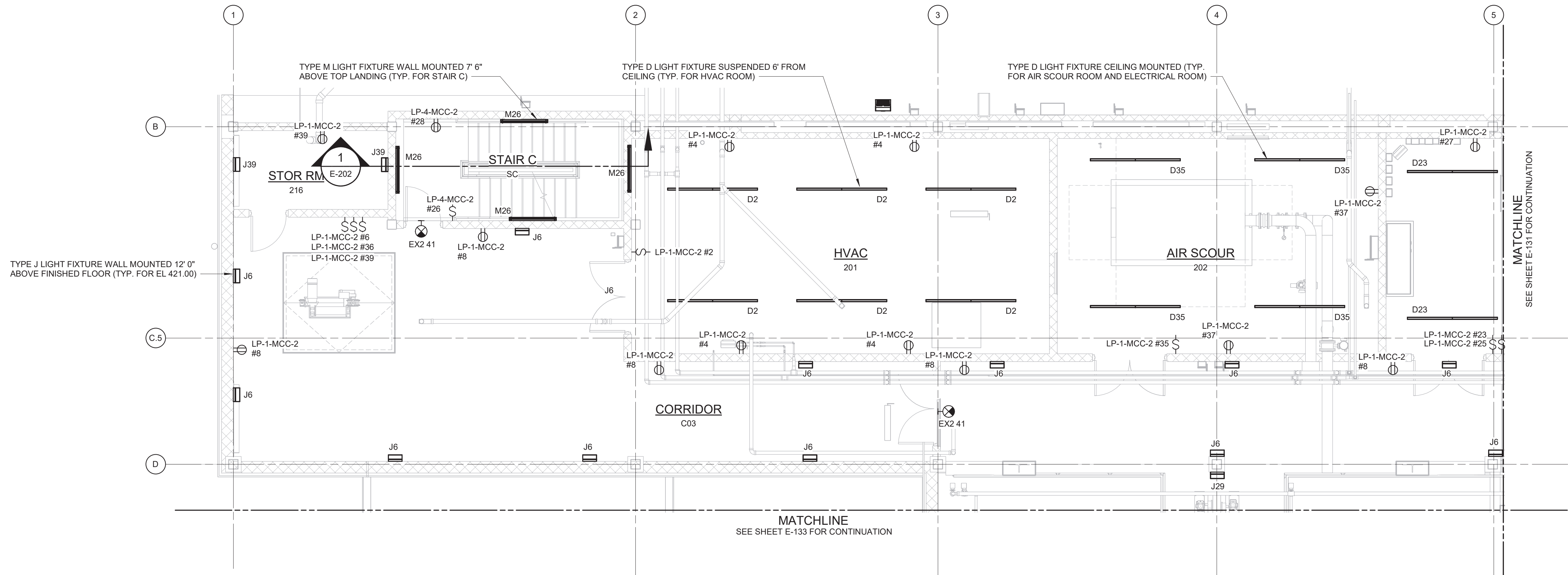
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 407.00 - AREA 6

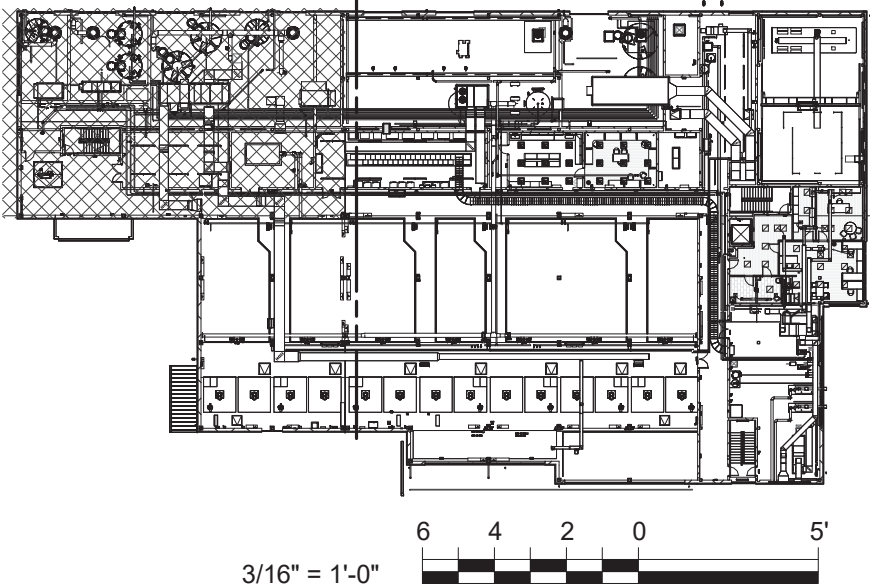
DATE: FEB 2025
HAZEN NO.: 90388-000
CONTRACT NO.: A1364-A
DRAWING NUMBER:
E-129



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN CORRIDOR (C03), STORAGE ROOM, HVAC (201) ROOM, AIR SCOUR ROOM, EXIT SIGNS, AND ELECTRICAL ROOM SHALL BE POWERED FROM LP-1-MCC-2. LIGHT FIXTURES IN STAIR C SHALL BE POWERED FROM LP-4-MCC-2. LIGHT FIXTURES IN DAF TANKS ROOM SHALL BE POWERED FROM LP-1-MCC-1.



LIGHTING PLAN AT EL 421.00 - AREA 1
3/16" = 1'-0"



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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



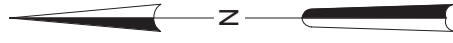
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

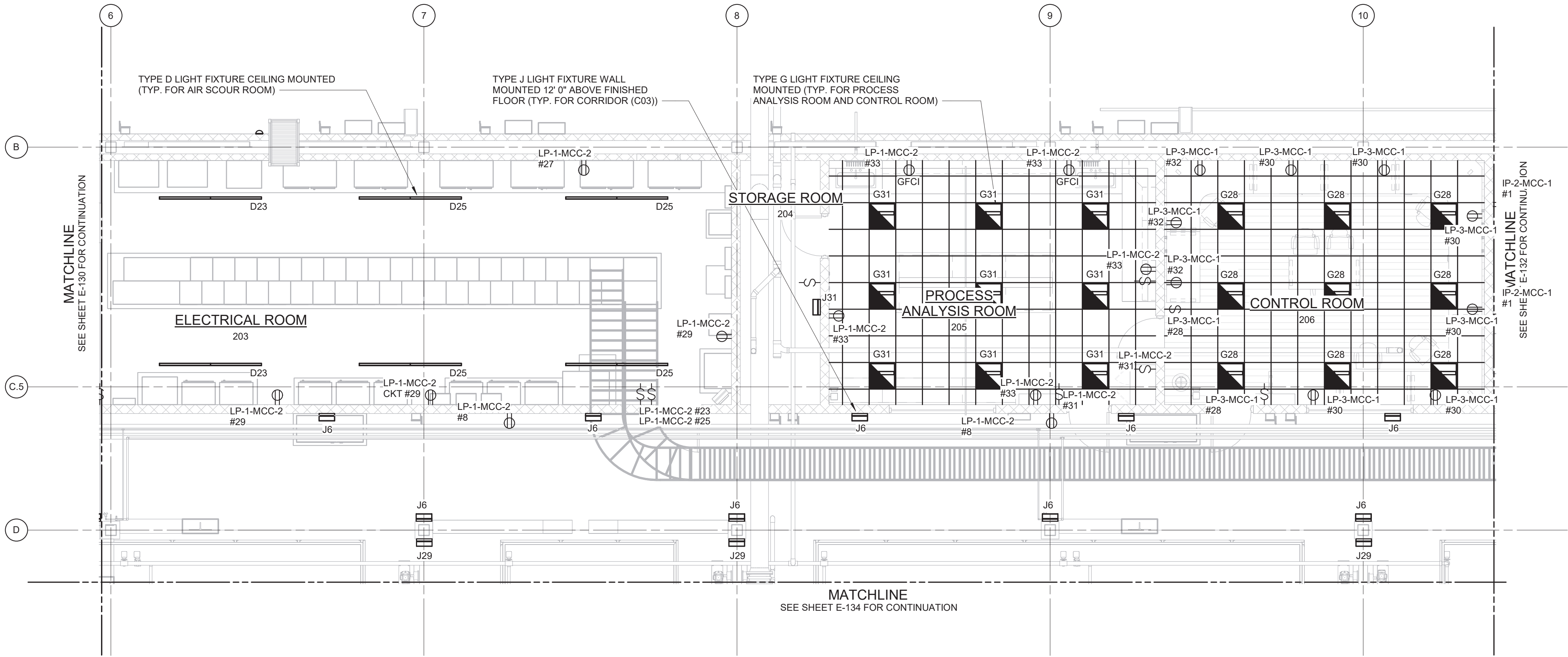
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 421.00 - AREA 1

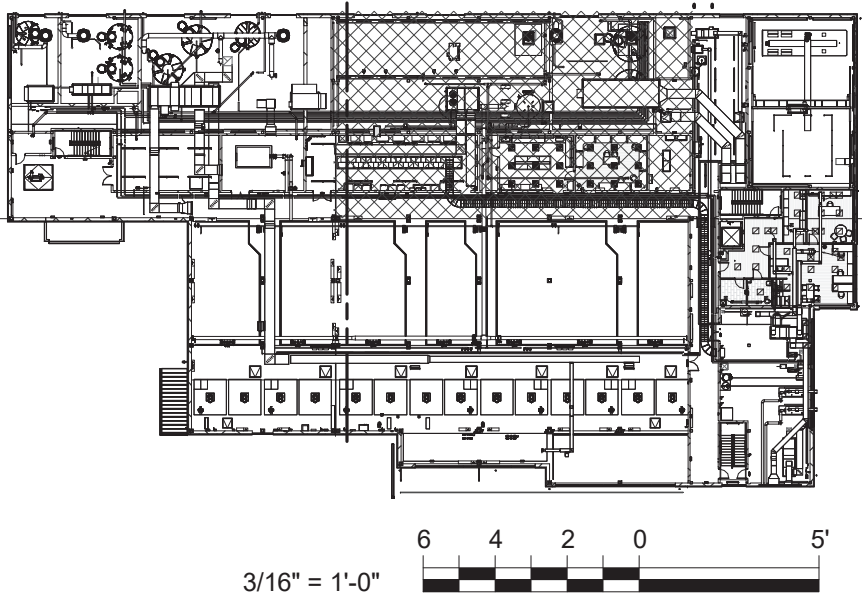
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-130




- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN ELECTRICAL ROOM, PROCESS ANALYSIS ROOM, AND CORRIDOR (C03) SHALL BE POWERED FROM LP-1-MCC-2. LIGHT FIXTURES IN CONTROL ROOM SHALL BE POWERED FROM LP-3-MCC-1. LIGHT FIXTURES IN DAF TANKS ROOM SHALL BE POWERED FROM LP-1-MCC-1.



LIGHTING PLAN AT EL 421.00 - AREA 2
3/16" = 1'-0"



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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1" 
REV	ISSUED FOR	DATE	BY		

BID SET



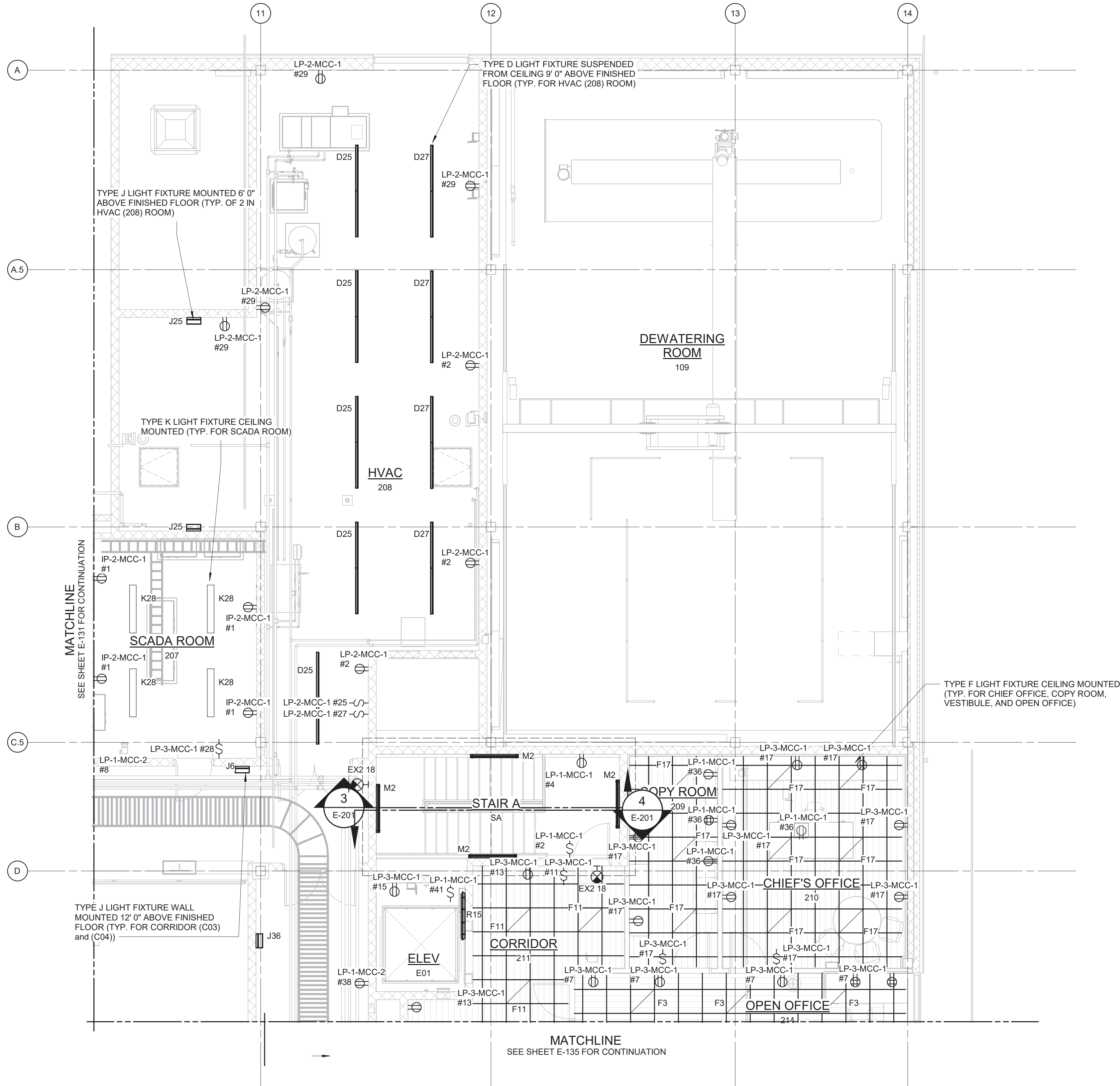
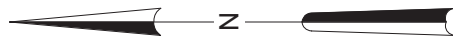
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HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

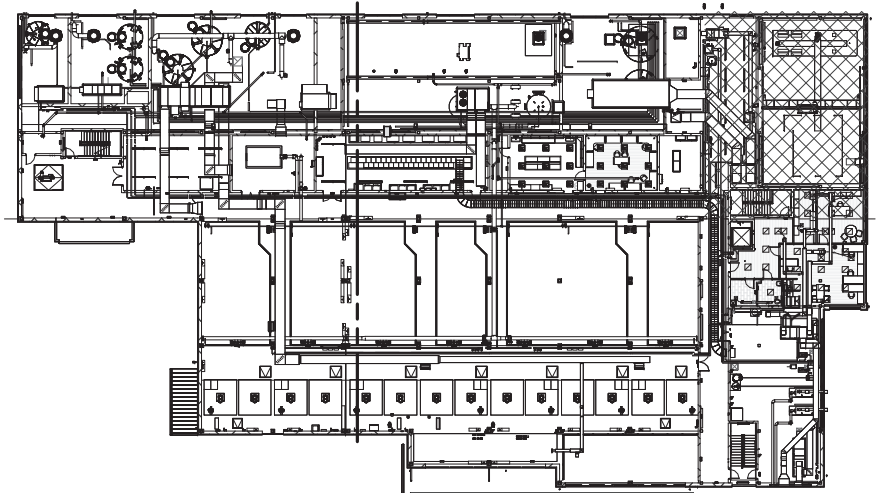
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 421.00 - AREA 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-131



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN SCADA ROOM, CHIEF'S OFFICE, VESTIBULE, OPEN OFFICE, AND ELEVATOR SHAFT SHALL BE POWERED FROM LP-3-MCC-1. EXIT SIGNS AND LIGHT FIXTURES IN HVAC ROOM (208) SHALL BE POWERED FROM LP-2-MCC-1. LIGHT FIXTURES IN CORRIDORS (C03) AND (C04) SHALL BE POWERED FROM LP-1-MCC-2. LIGHT FIXTURES IN STAIR A SHALL BE POWERED FROM LP-1-MCC-1.



3/16" = 1'-0"

LIGHTING PLAN AT EL 421.00 - AREA 3

3/16" = 1'-0"

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				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY		

BID SET



Hazen

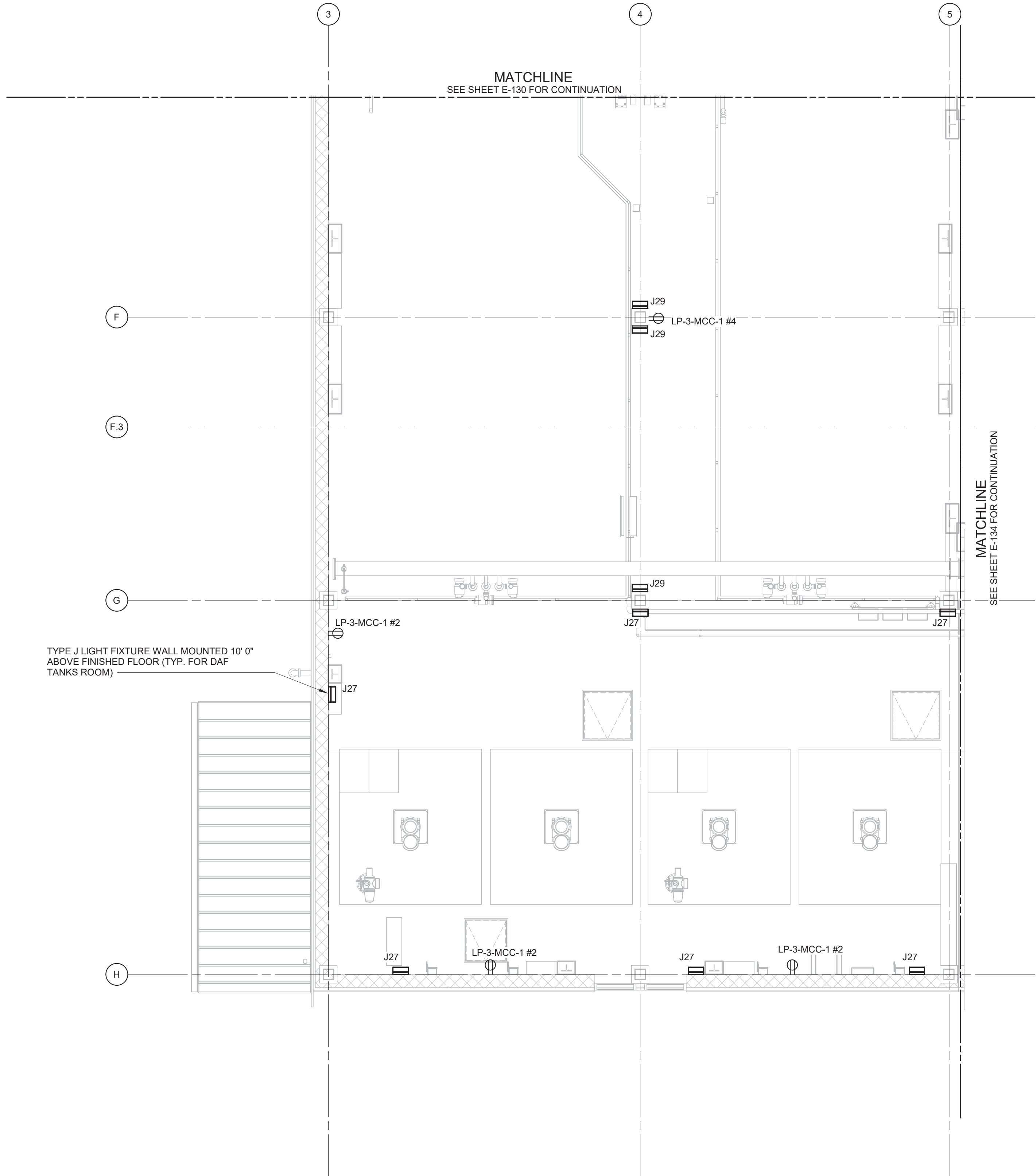
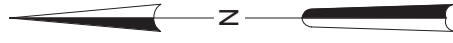
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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

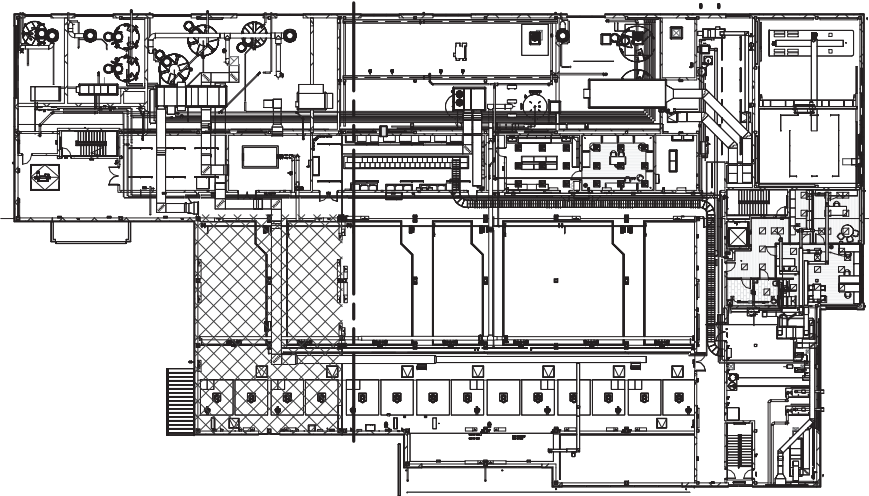
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 421.00 - AREA 3

DATE: FEB 2025
HAZEN NO.: 90388-000
CONTRACT NO.: A1364-A
DRAWING NUMBER:
E-132



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN DAF TANKS ROOM SHALL BE POWERED FROM LP-3-MCC-1.



3/16" = 1'-0"

LIGHTING PLAN AT EL 421.00 - AREA 4
3/16" = 1'-0"

WARNING
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



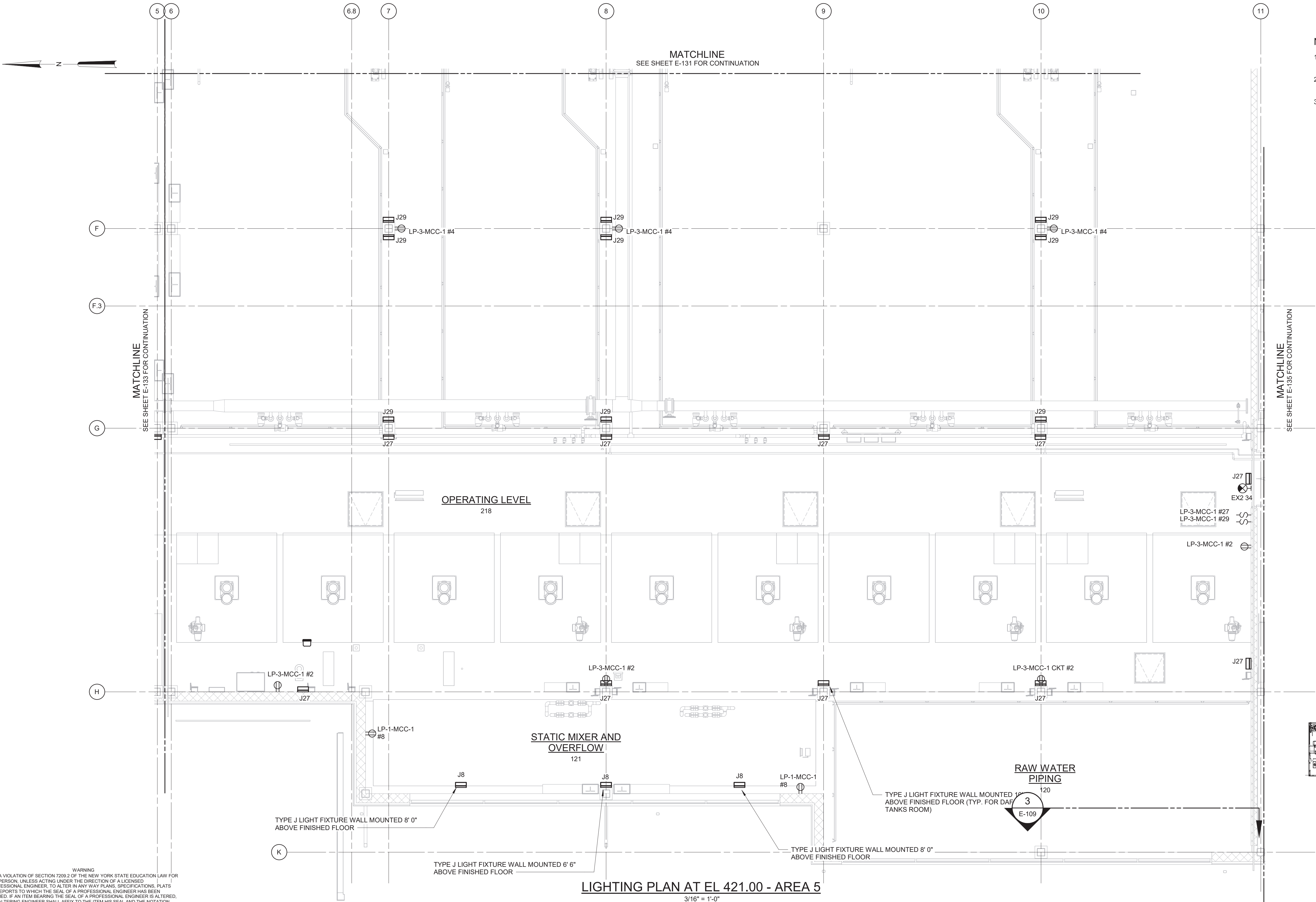
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498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

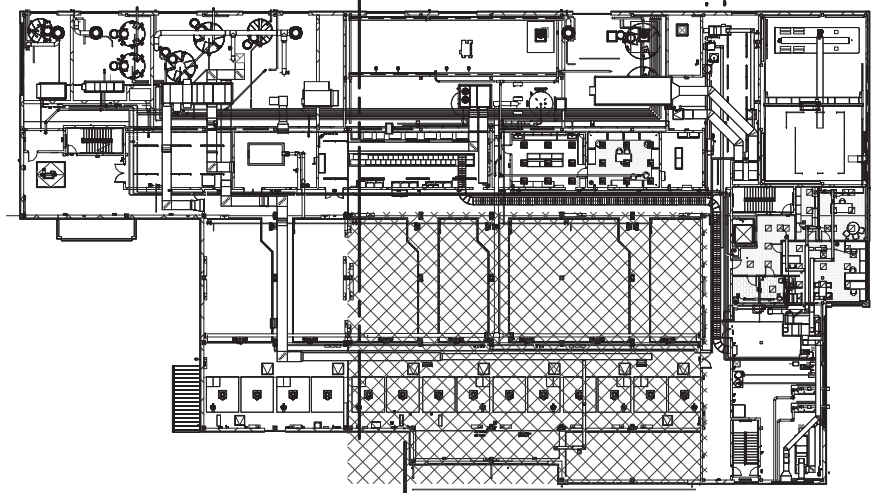
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 421.00 - AREA 4

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-133



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN DAF TANKS ROOM SHALL BE POWERED FROM LP-3-MCC-1. LIGHT FIXTURES IN STATIC MIXER AND OVERFLOW ROOM SHALL BE POWERED FROM LP-1-MCC-1.



3/16" = 1'-0"

6 4 2 0 5'

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



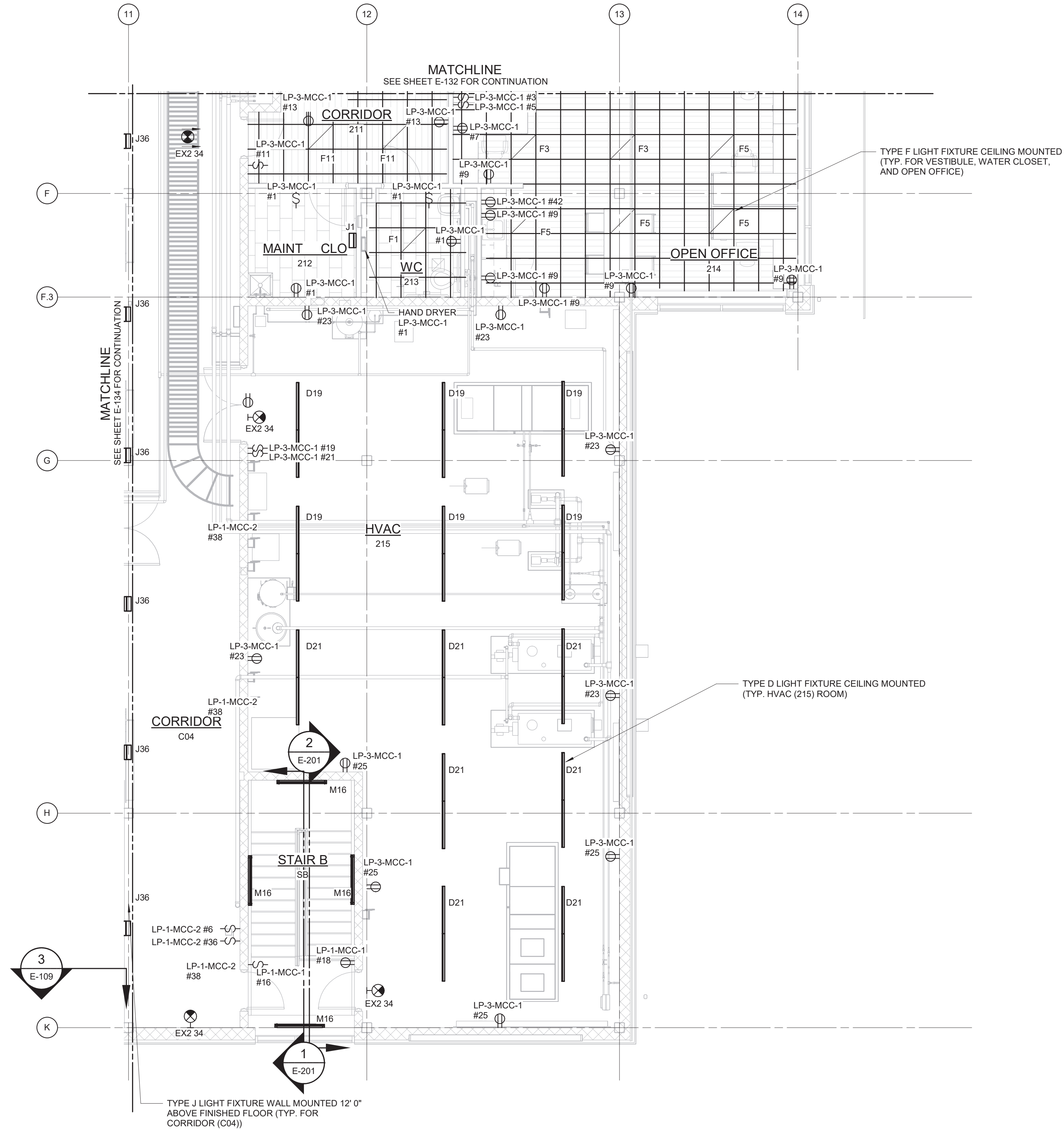
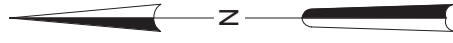
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

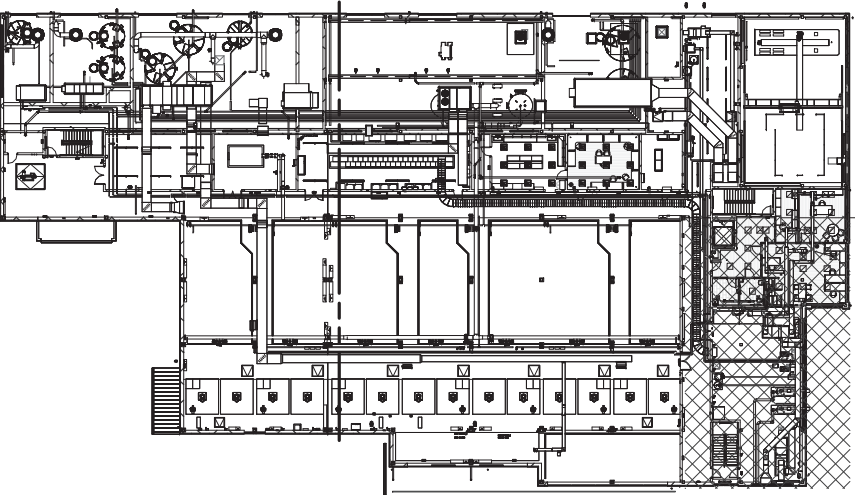
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 421.00 - AREA 5

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-134



- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.
 3. LIGHT FIXTURES IN OPEN OFFICE, WATER CLOSET, MAINTENANCE CLOSET, VESTIBULE, AND HVAC (215) ROOM SHALL BE POWERED FROM LP-3-MCC-1. LIGHT FIXTURES IN CORRIDOR (C04) SHALL BE POWERED FROM LP-1-MCC-2. EXIT SIGNS AND LIGHT FIXTURES IN STAIR B SHALL BE POWERED FROM LP-1-MCC-1.



3/16" = 1'-0"

LIGHTING PLAN AT EL 421.00 - AREA 6
3/16" = 1'-0"

WARNING
IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	P. NUGENT
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



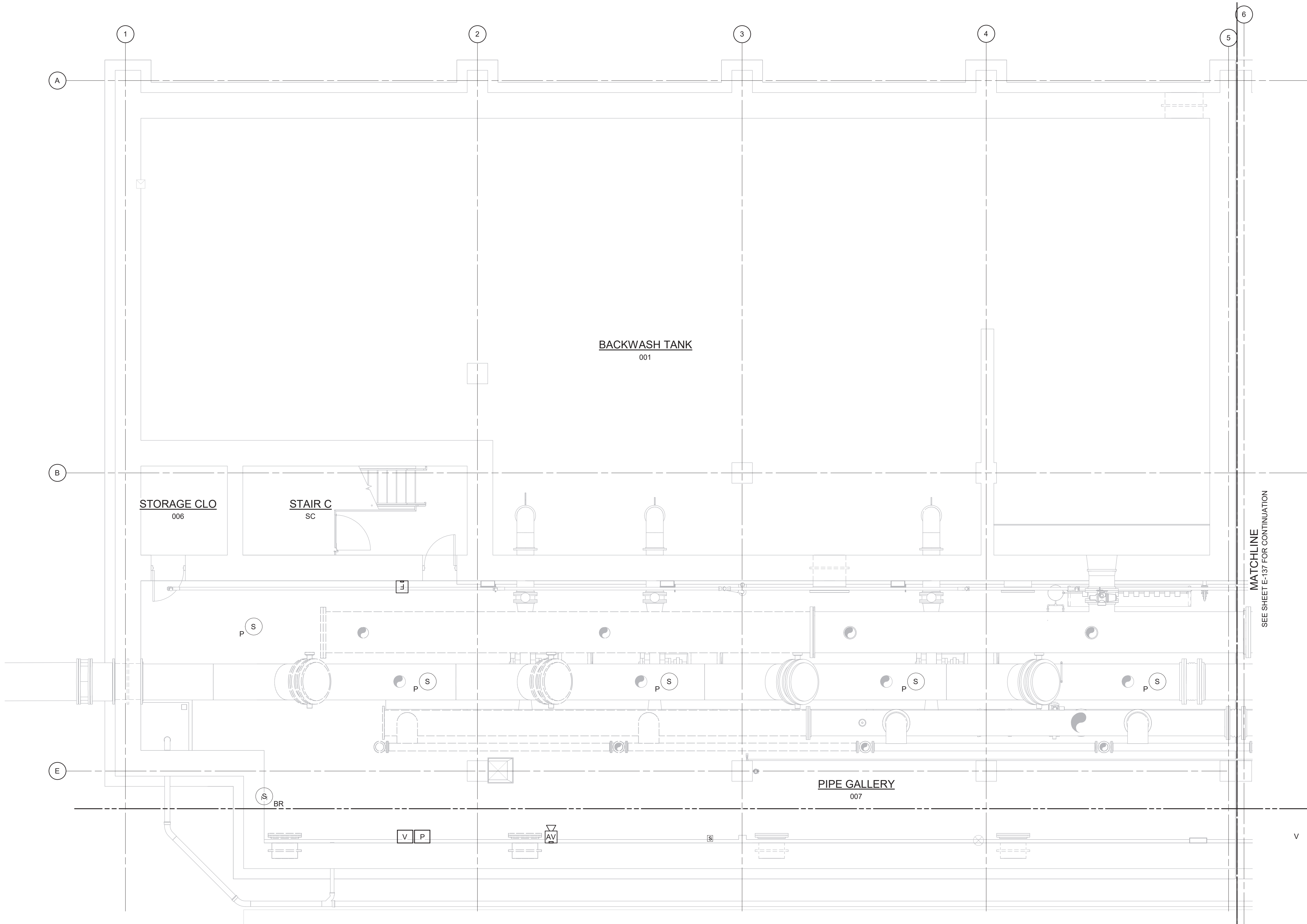
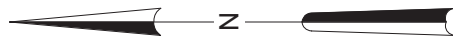
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

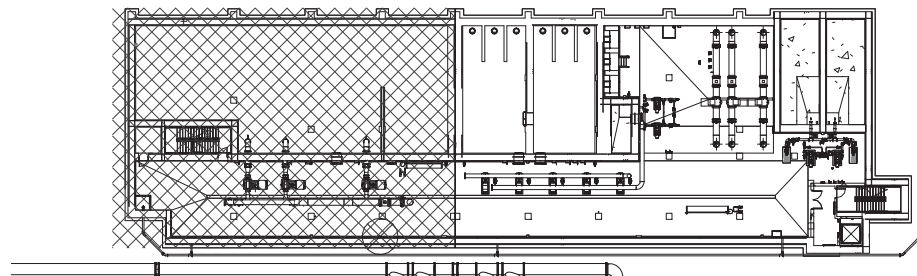
FILTRATION PLANT
ELECTRICAL
LIGHTING PLAN - EL 421.00 - AREA 6

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-135



NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"

FIRE ALARM & SECURITY PLAN - EL 383.00 - AREA 1

3/16" = 1'-0"

WARNING:
IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

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

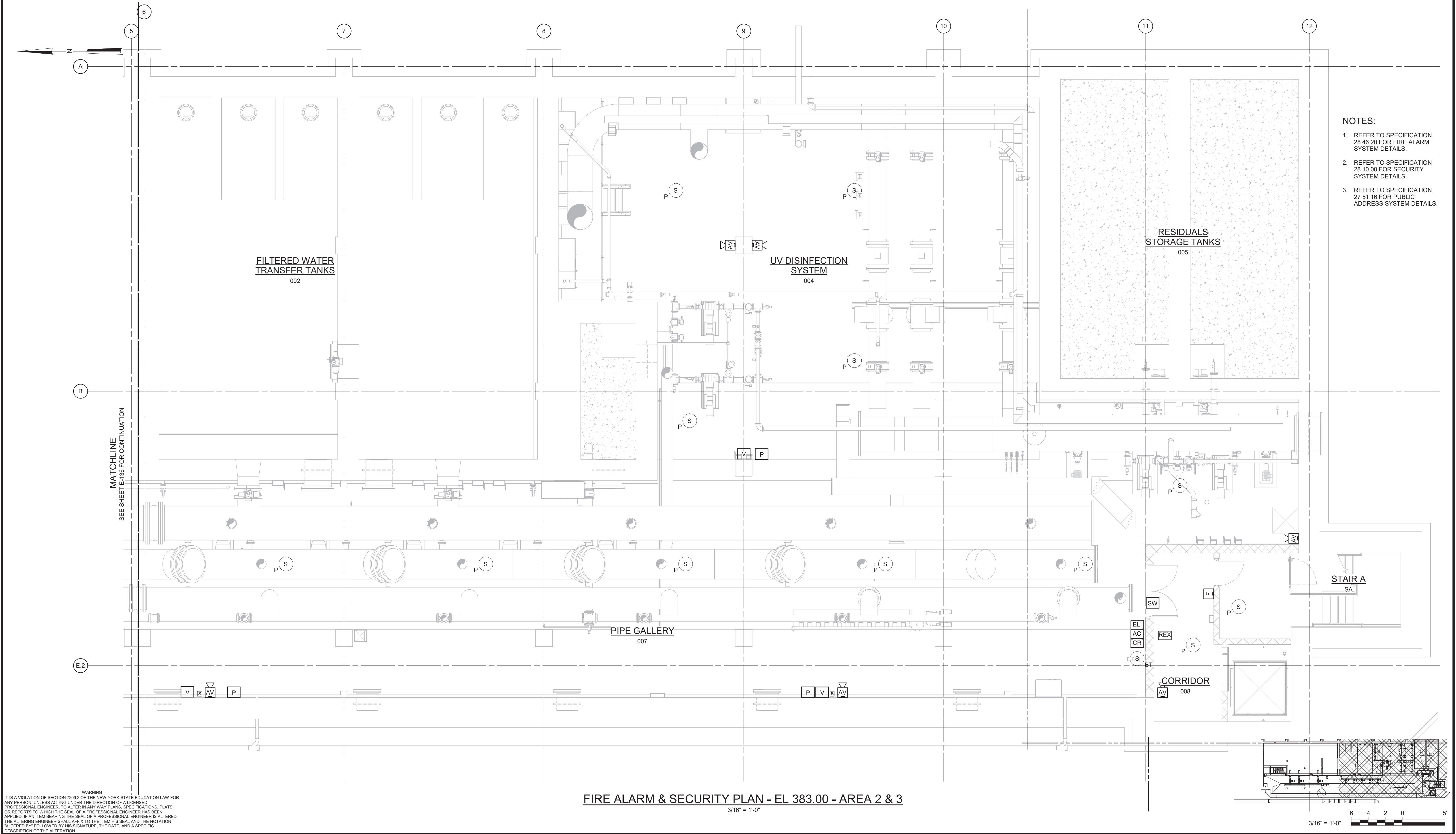
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 383.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-136

Autodesk Docs/09388-000_Rye_Lake_Filtration/09388-000-WFP-E-137
4/15/2025 3:08:11 PM



- NOTES:
1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
 2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
 3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.

WARNING
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



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

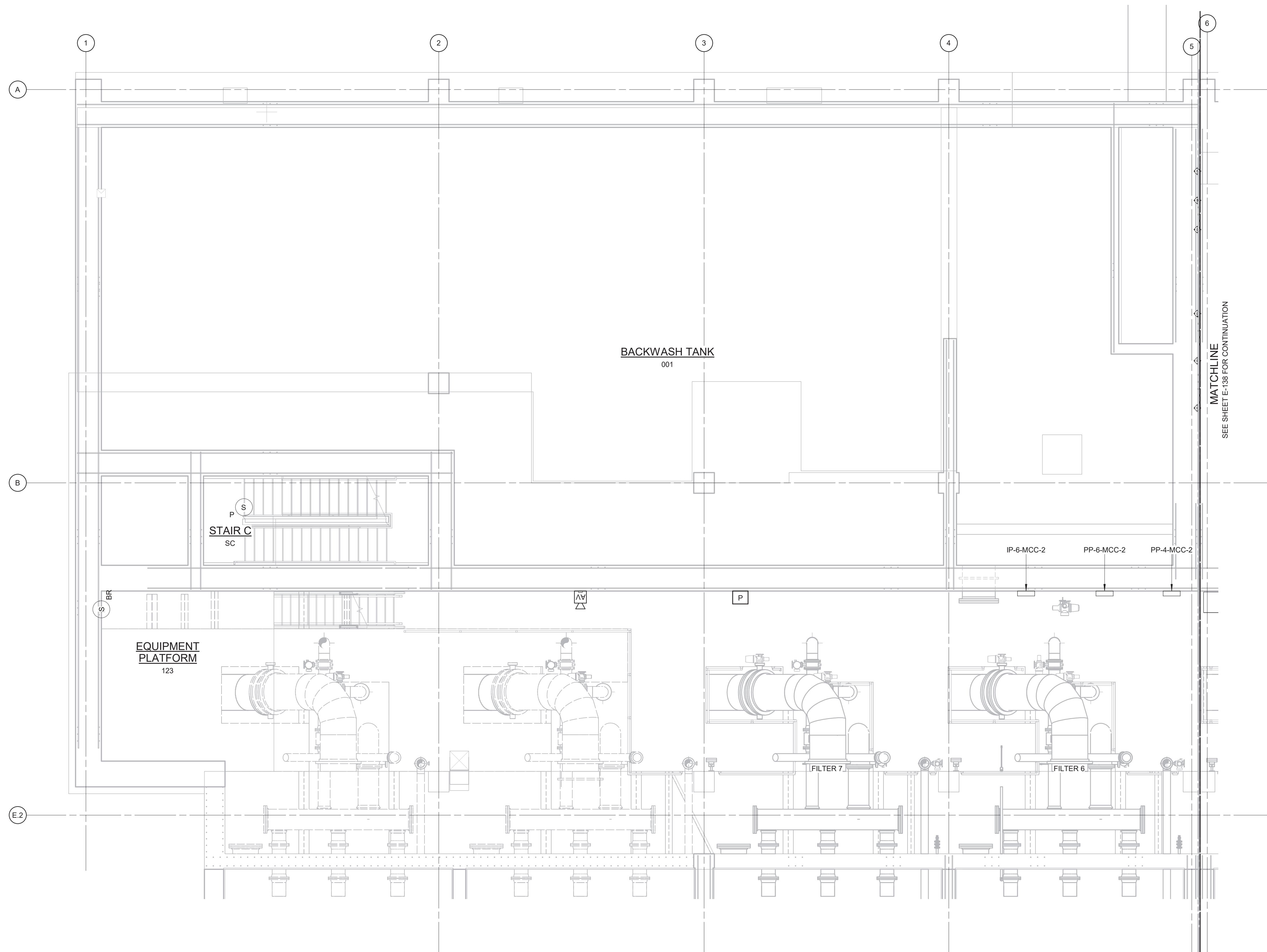
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

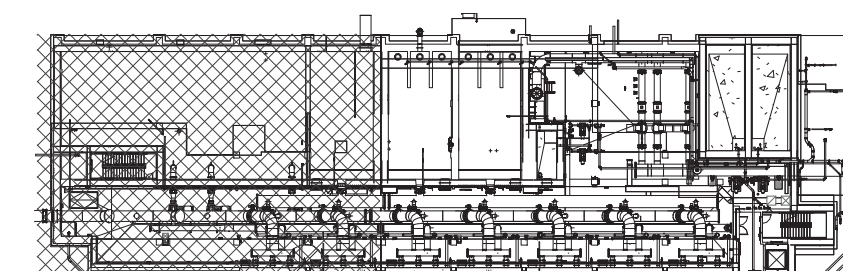
FILTRATION PLANT
ELECTRICAL

FIRE ALARM & SECURITY PLAN - EL 383.00 - AREA 2 & 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-137




- MATCHLINE**
SEE SHEET E-138 FOR CONTINUATION



$3/16" = 1'-0"$

$$3/16'' = 1'-0''$$

DESCRIPTION OF THE ALTERATION				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	R. CHUNG
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR	DATE	BY	<div> <div>0</div> <div>1/2"</div> <div>1</div>  </div>	

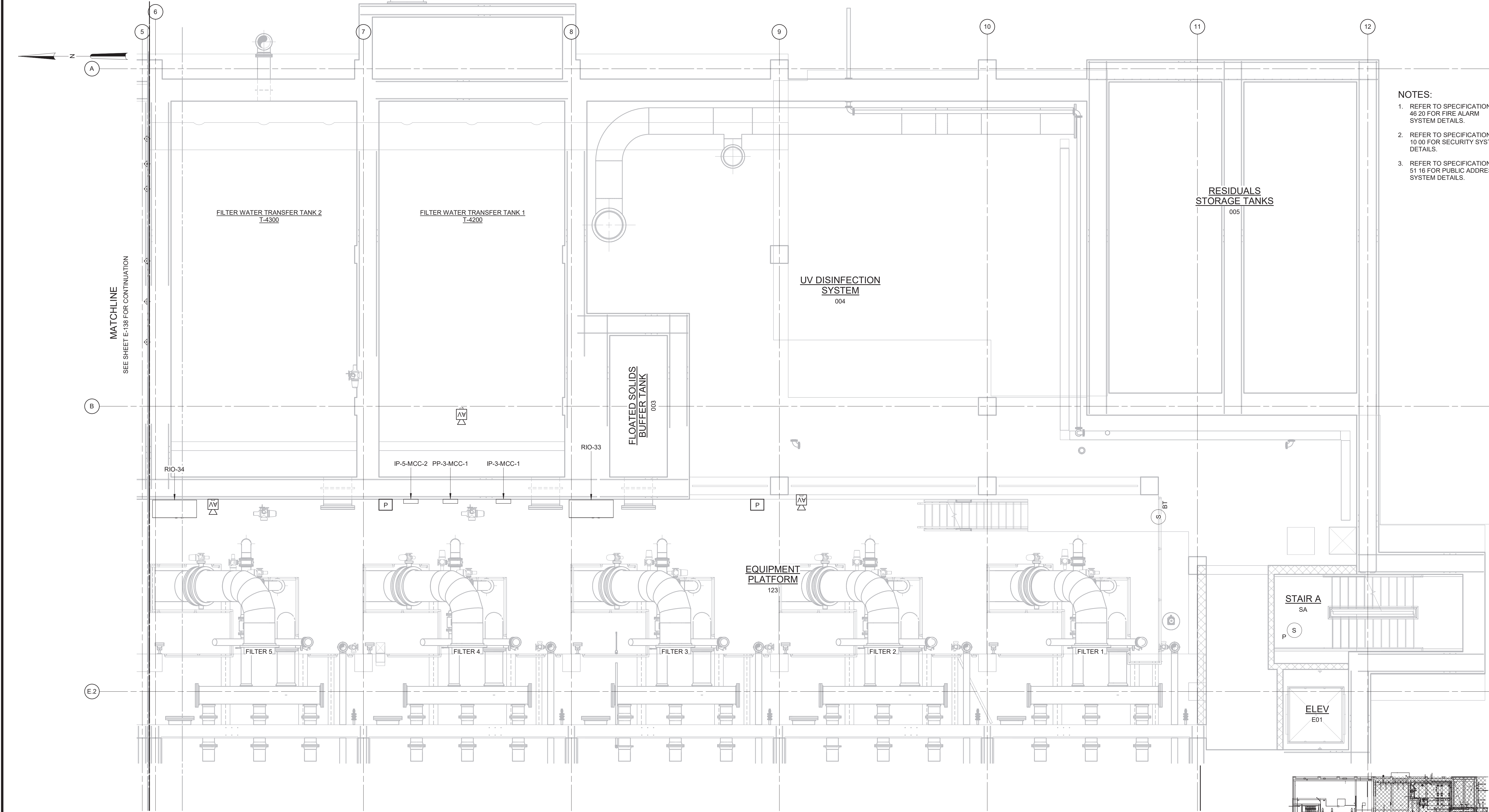
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 398.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-138

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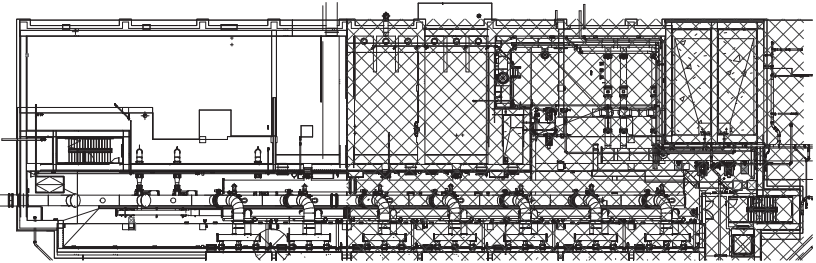
NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.

WARNING
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FIRE ALARM & SECURITY PLAN - EL 398.00 - AREA 2 & 3

3/16" = 1'-0"



3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

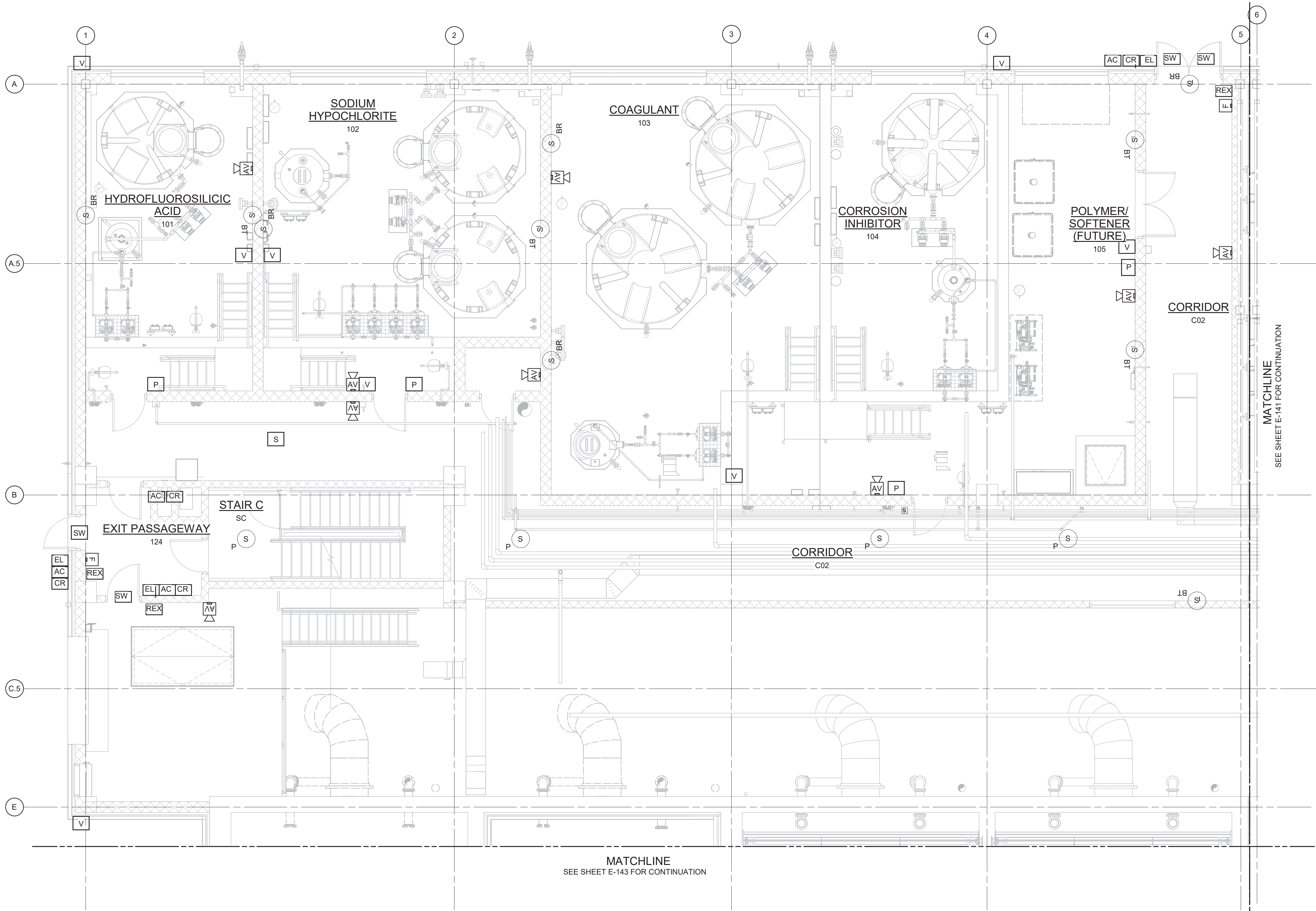
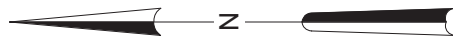
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

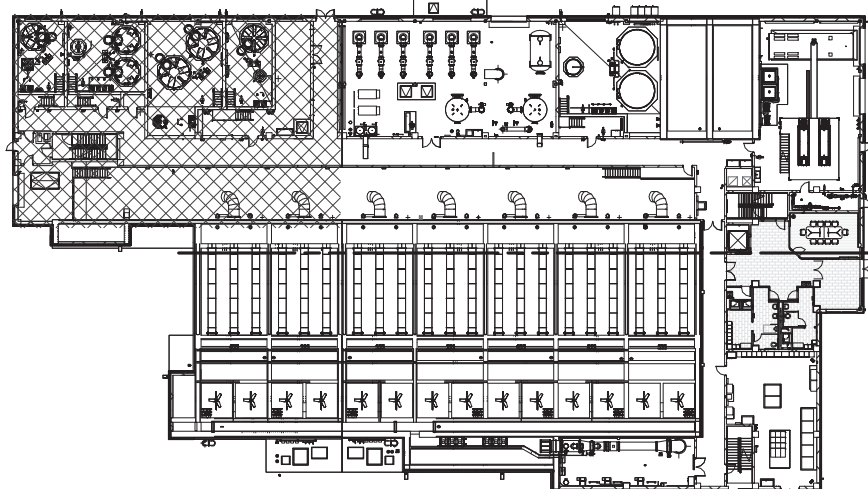
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 398.00 - AREA 2 &
3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-139



- NOTES:
1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
 2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
 3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"

6 4 2 0 5'

FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 1

3/16" = 1'-0"

WARNING:
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

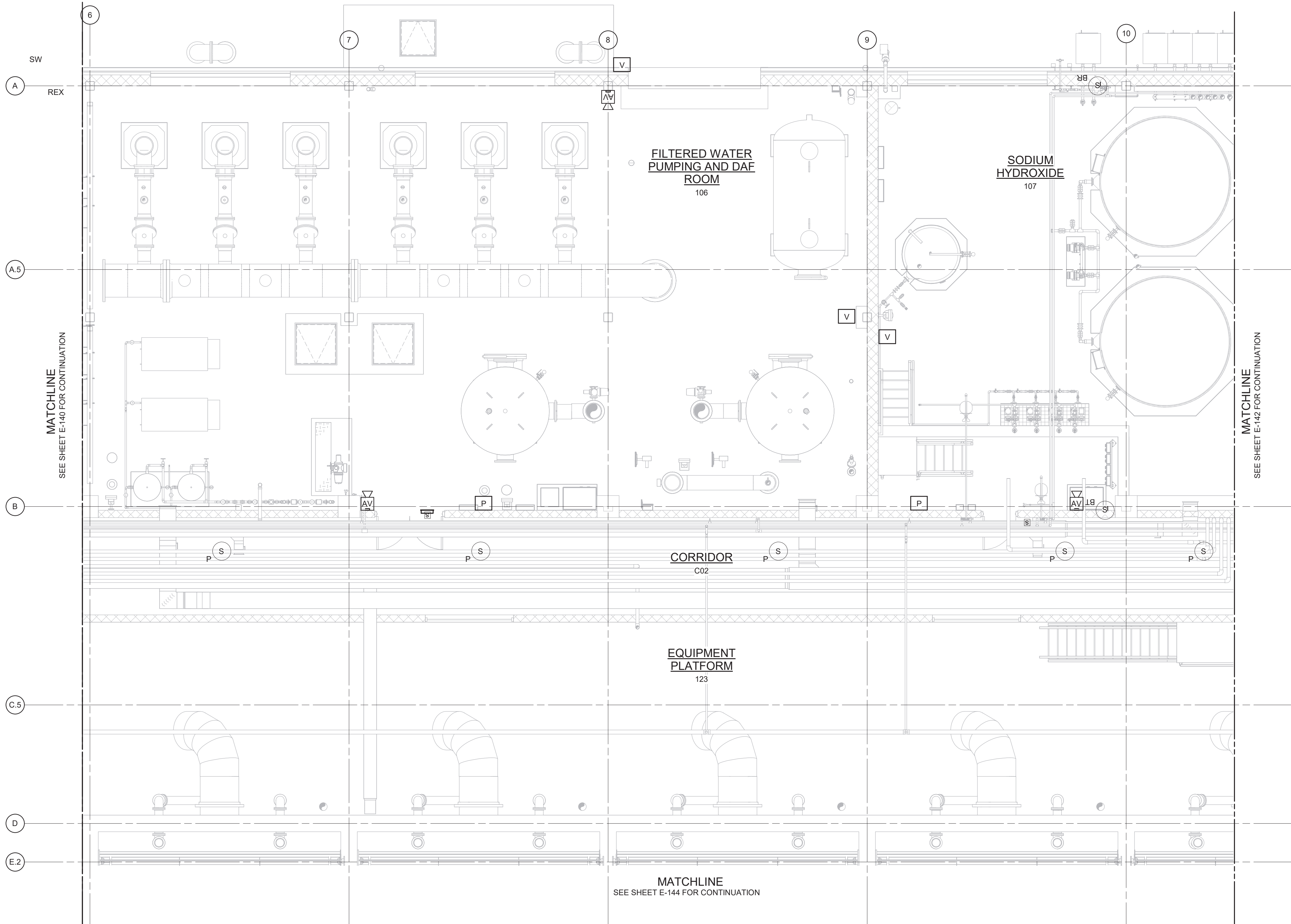
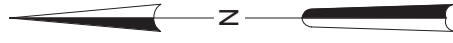
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

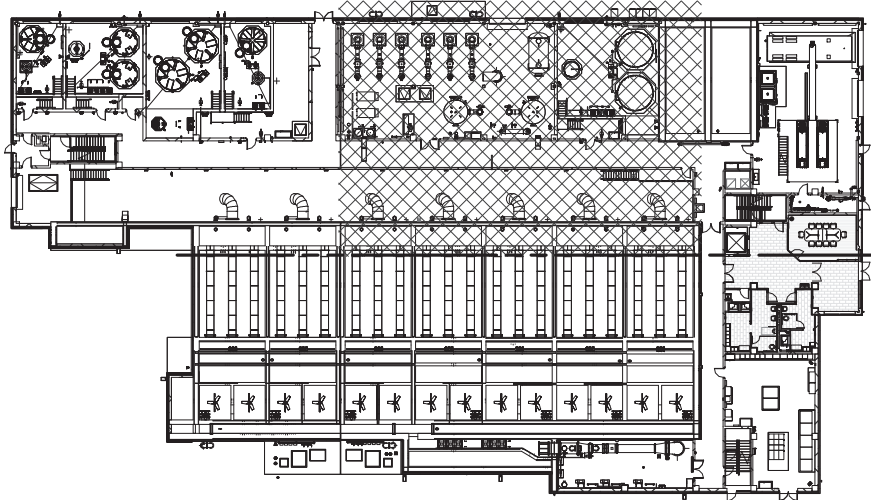
FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-140



NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"
6 4 2 0 5'

FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 2

3/16" = 1'-0"

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WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

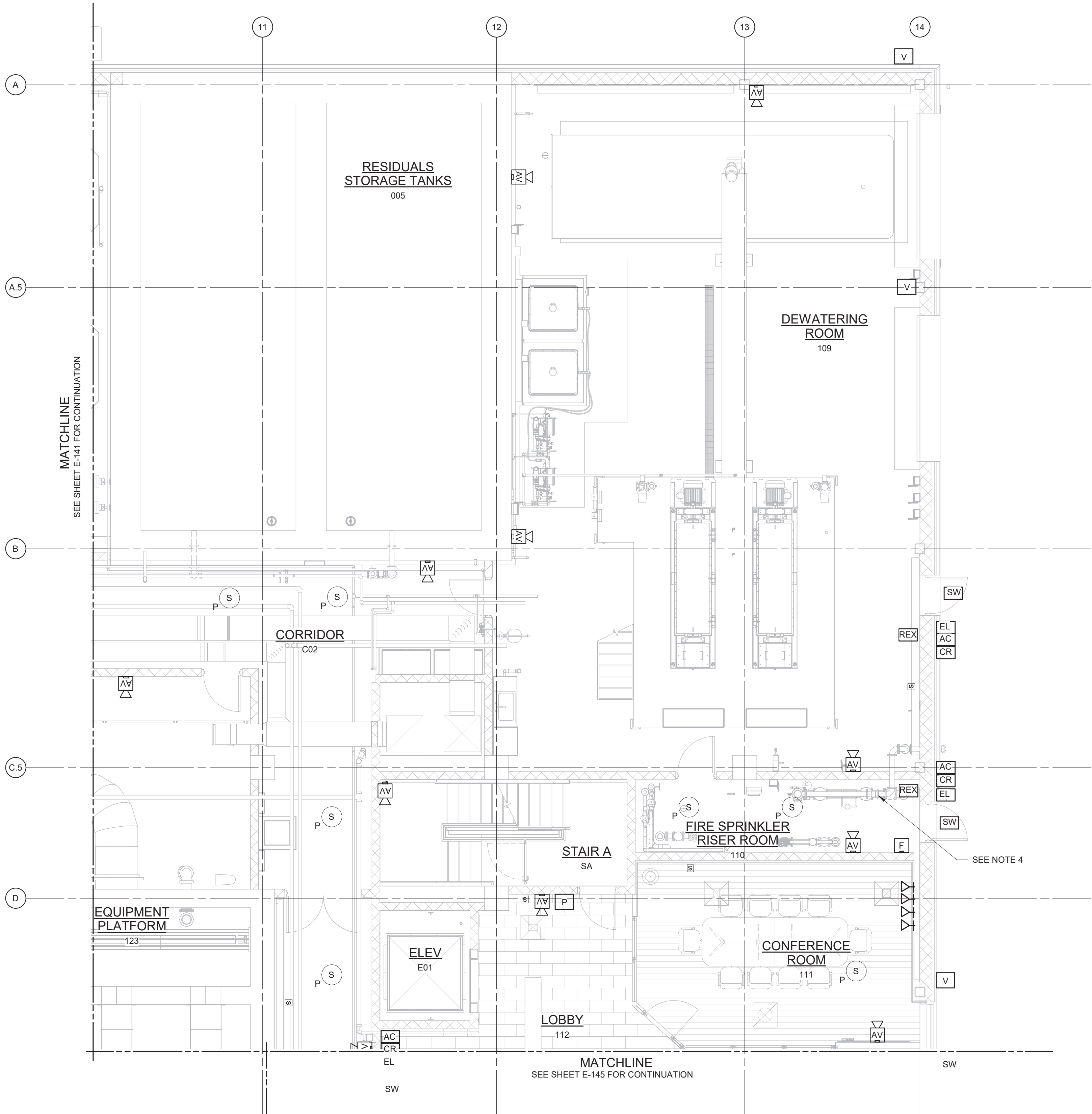
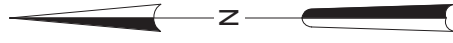
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

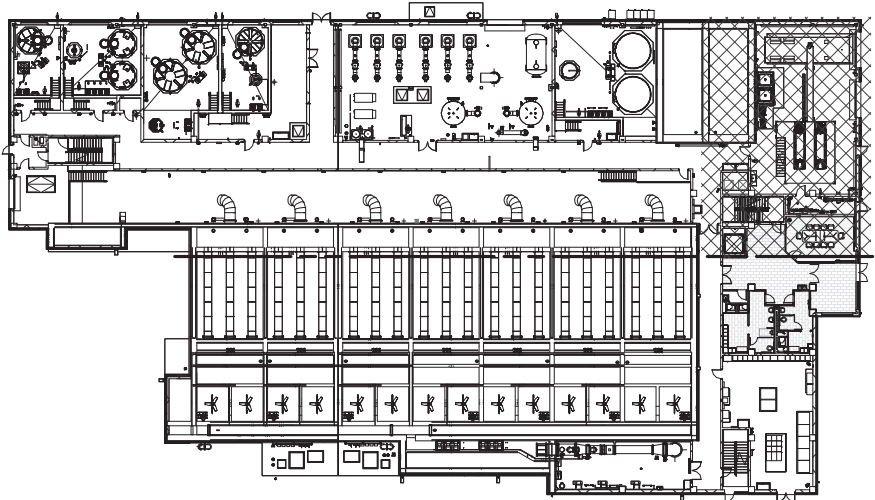
FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-141



NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.
4. FLOW SWITCH ALARM, PRESSURE ALARM, CONTROL VALVE TAMPER SWITCH 1, DCDV GATE VALVE 1 - TAMPER SWITCH AND DCDV GATE VALVE 2 - TAMPER SWITCH LOCATED IN WET SPRINKLER SYSTEM.



3/16" = 1'-0"

WARNING:
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FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 3
3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



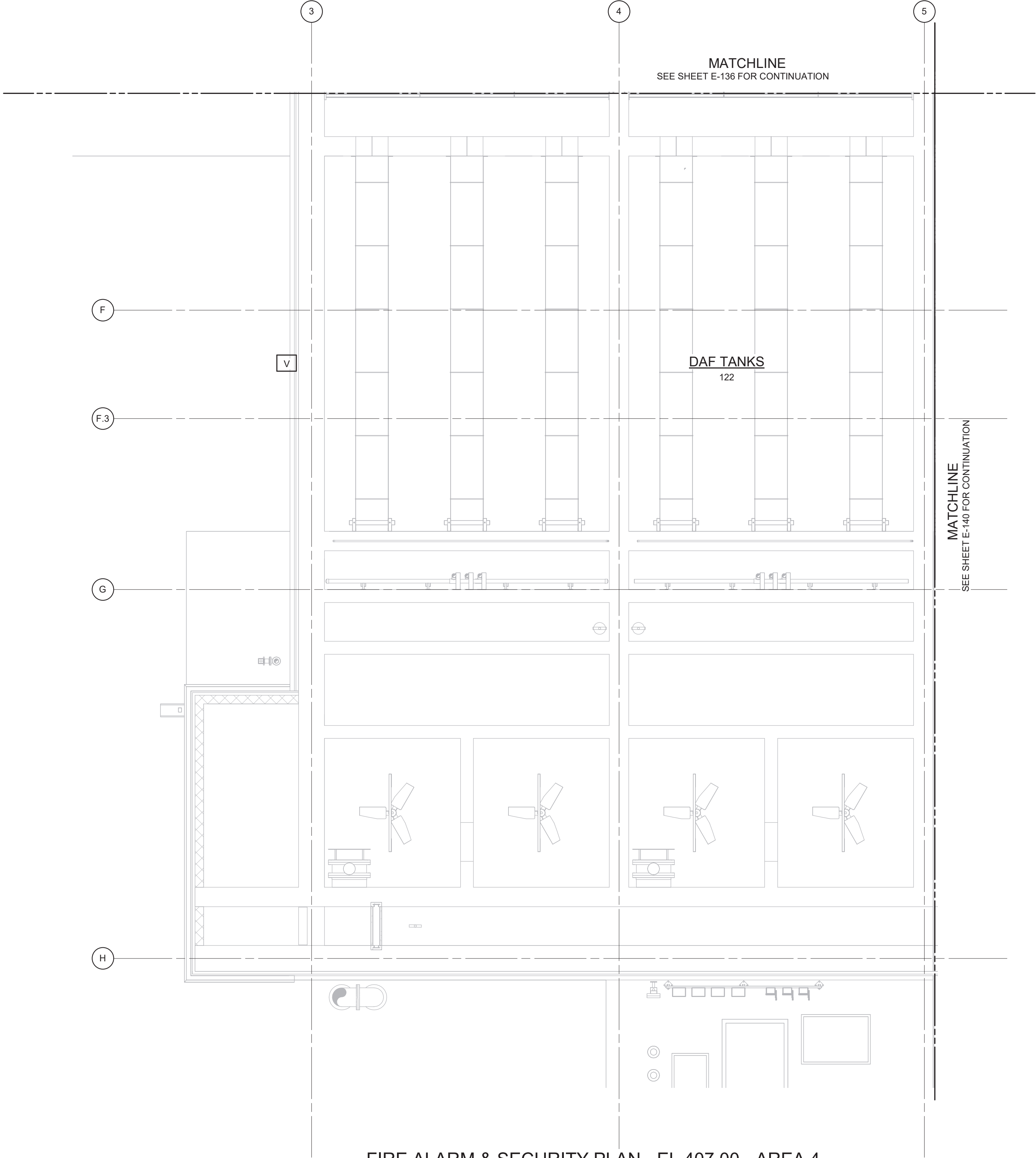
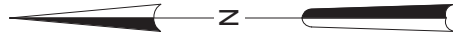
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

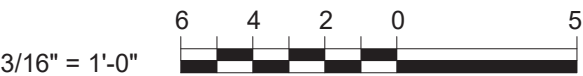
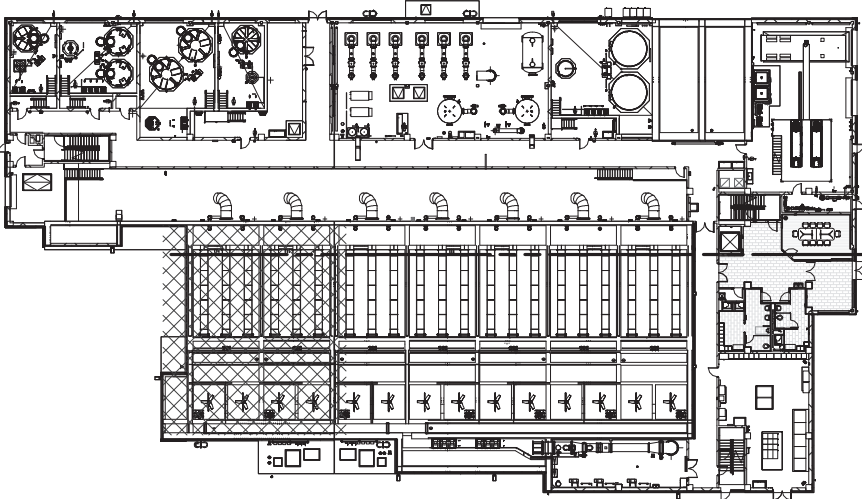
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-142



- NOTES:
1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
 2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
 3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 4
3/16" = 1'-0"

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



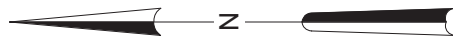
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 4

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-143



E2

F

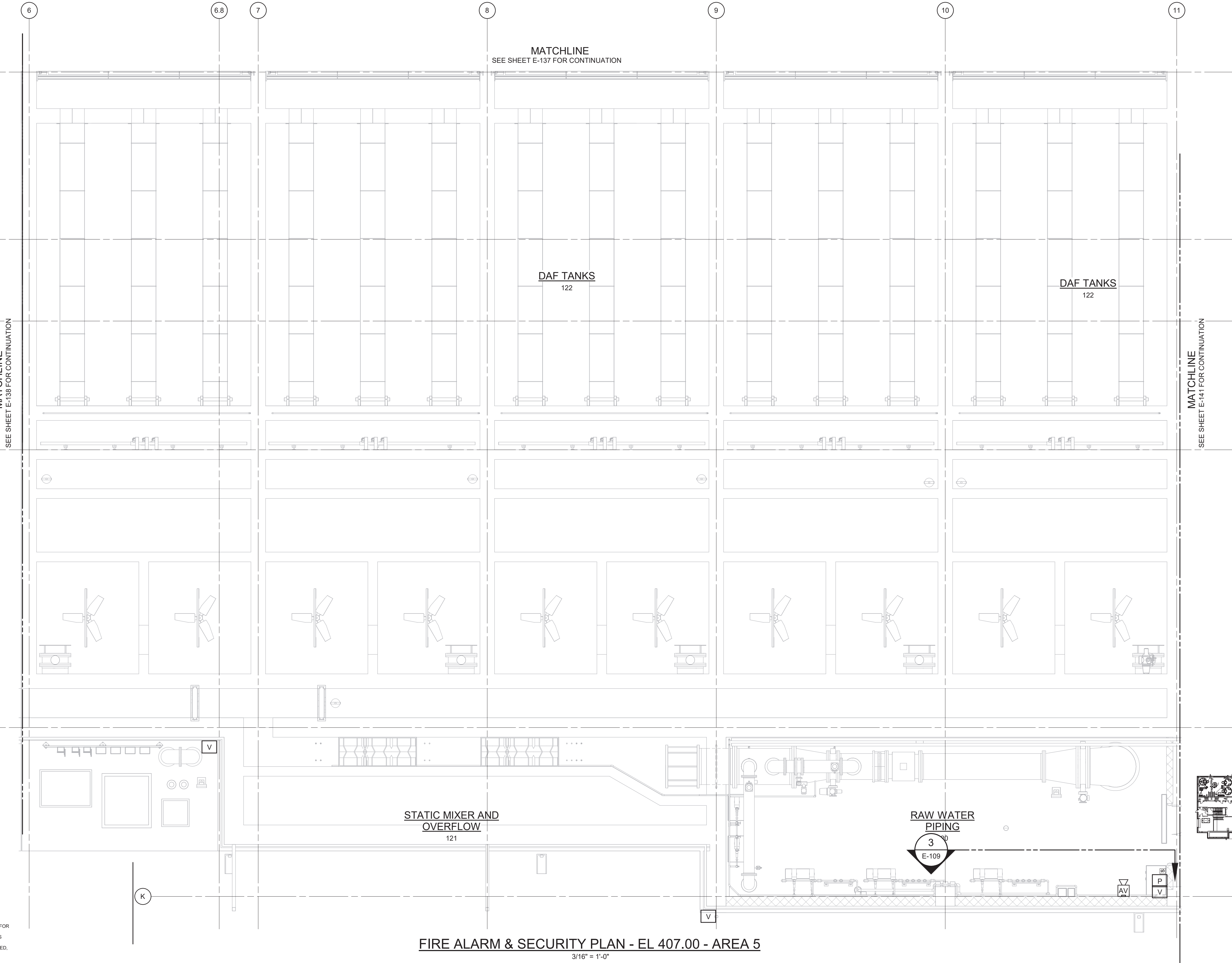
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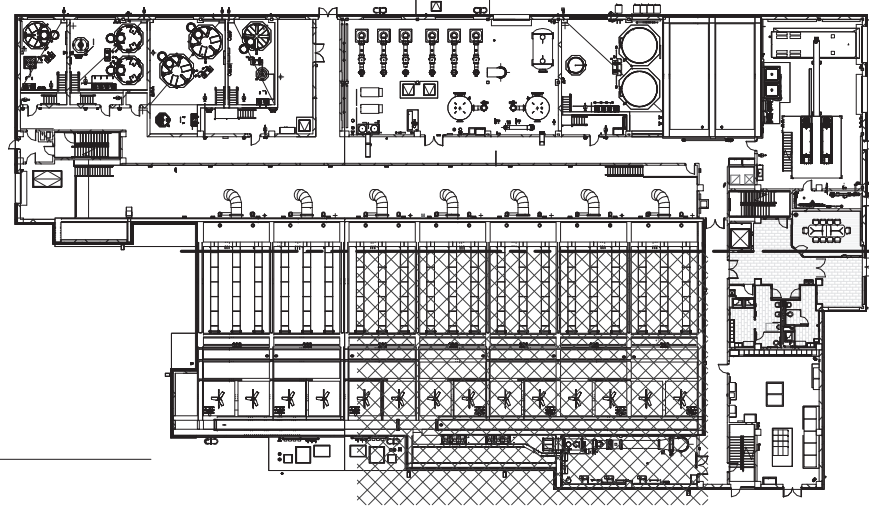
MATCHLINE
SEE SHEET E-138 FOR CONTINUATION



NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.

MATCHLINE
SEE SHEET E-141 FOR CONTINUATION



3/16" = 1'-0"
6 4 2 0 5'

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



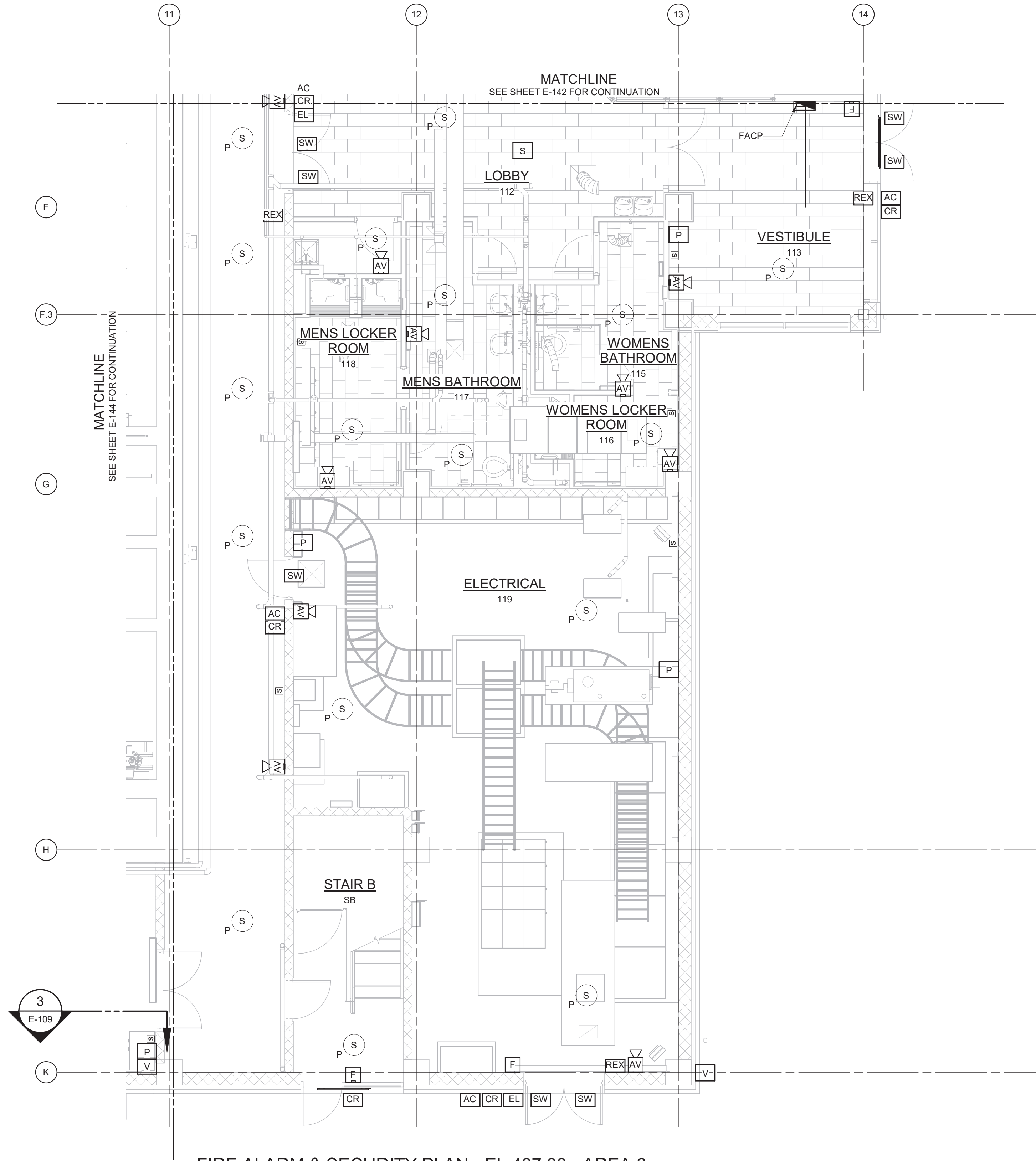
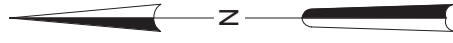
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

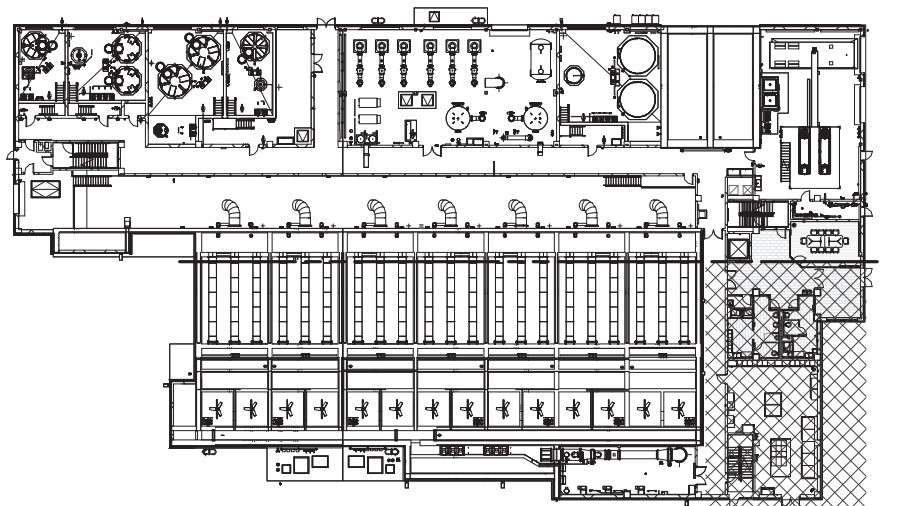
FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 5

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-144



FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 6

3/16" = 1'-0"



3/16" = 1'-0"
6 4 2 0 5'

NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.

WARNING:
IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

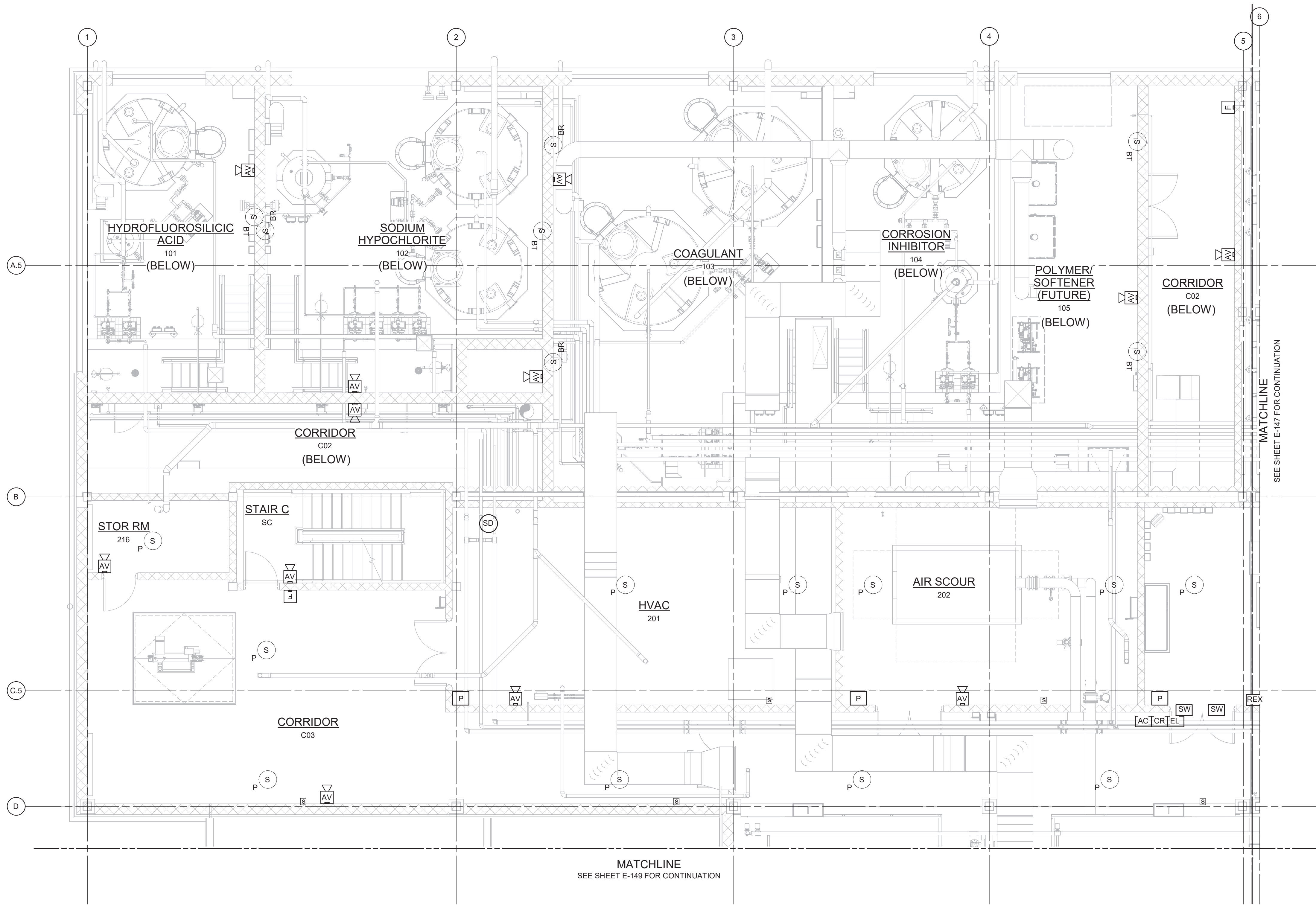
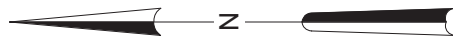
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

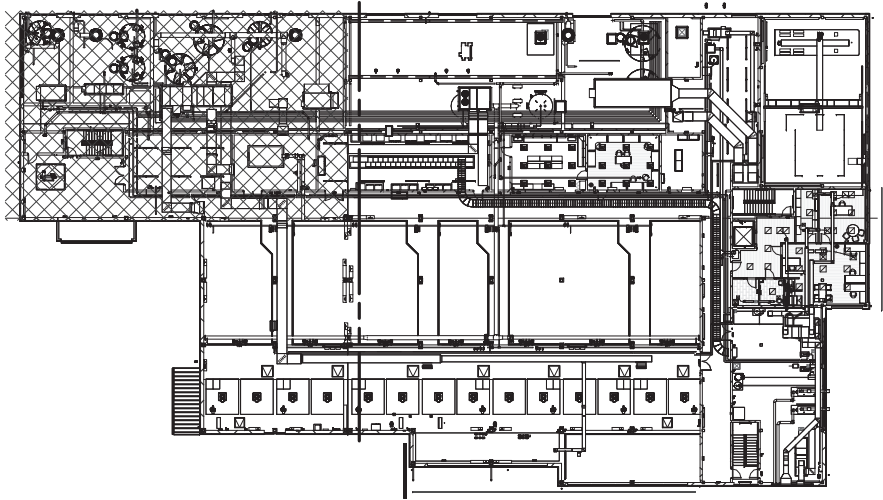
FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 407.00 - AREA 6

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-145



NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"

WARNING:
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FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 1

3/16" = 1'-0"

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

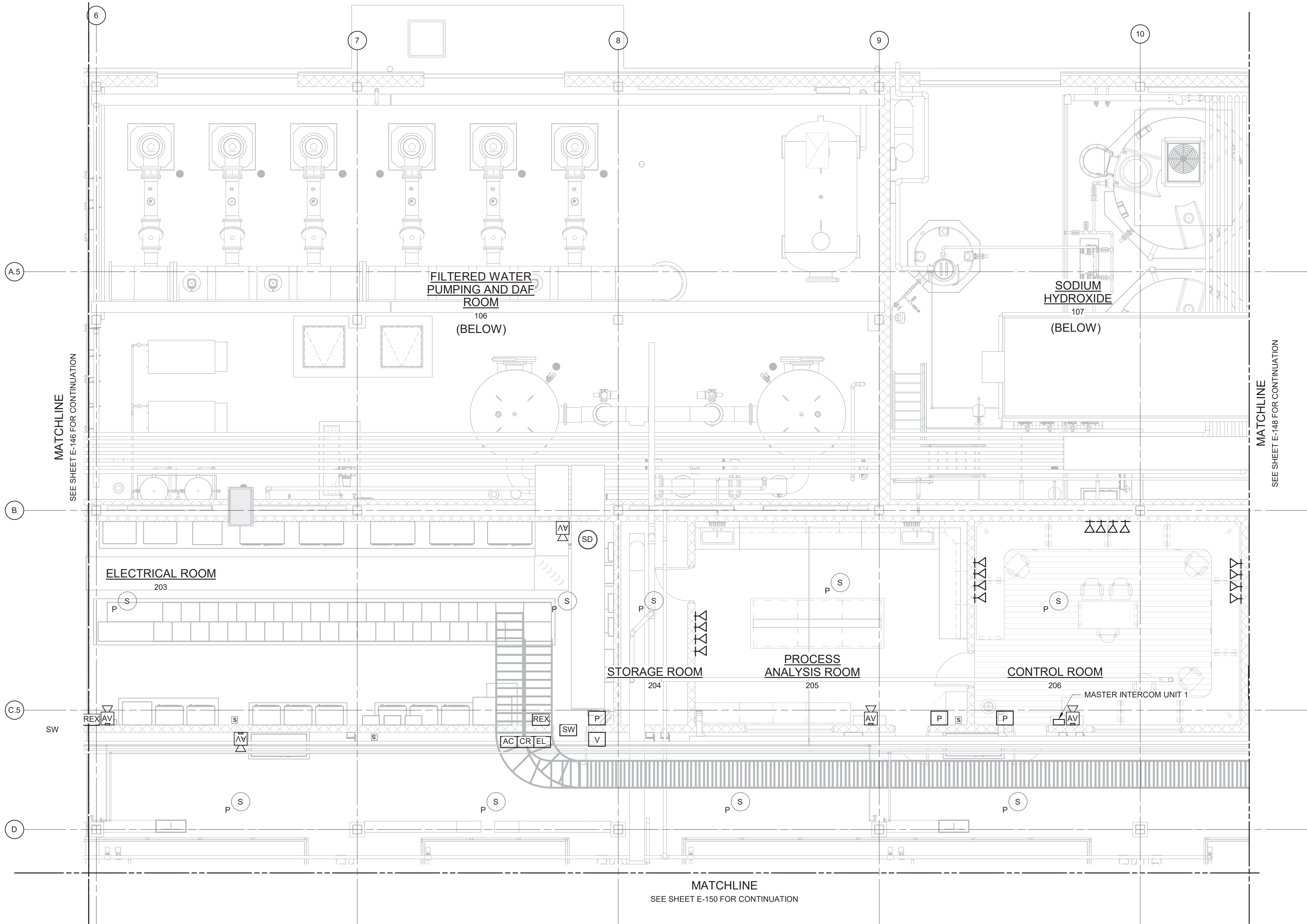
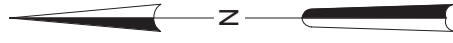
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

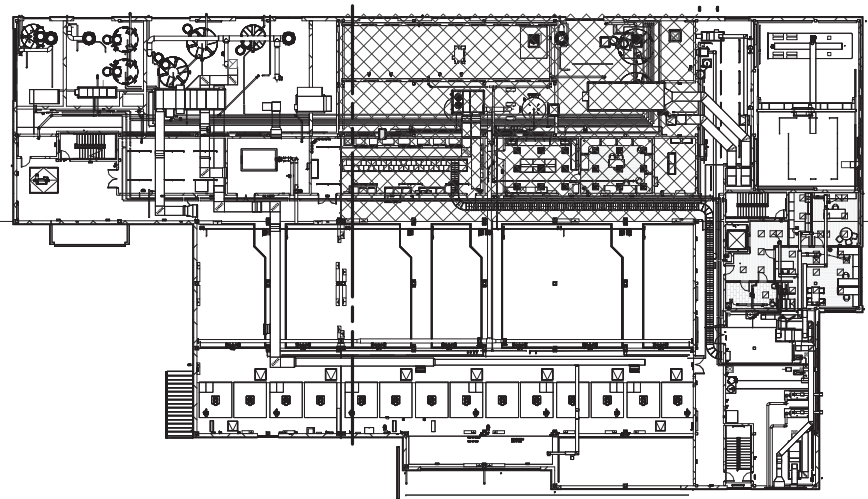
FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-146



NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"
6 4 2 0 5'

FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 2

3/16" = 1'-0"

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

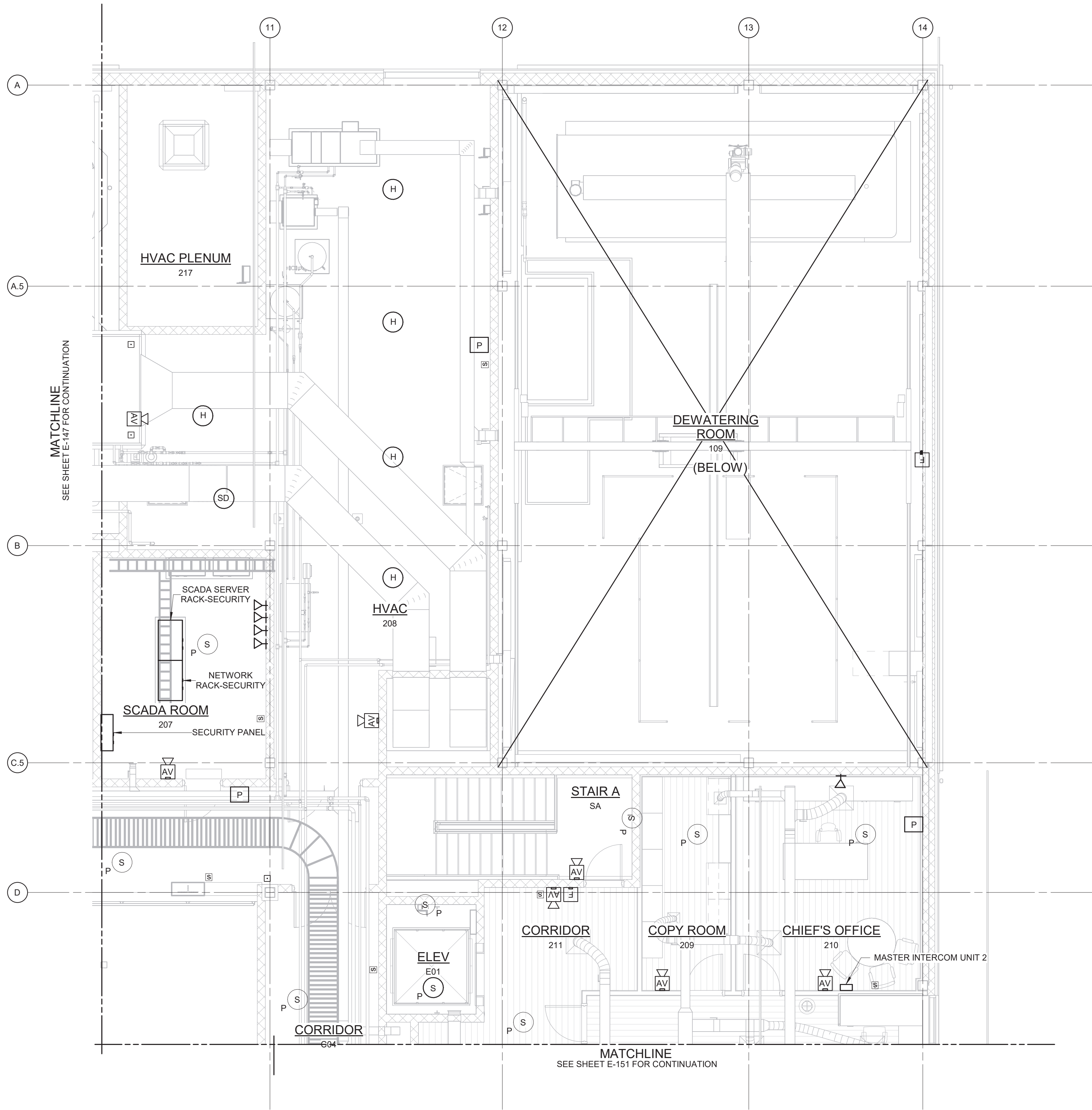
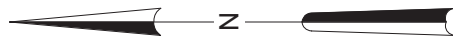
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

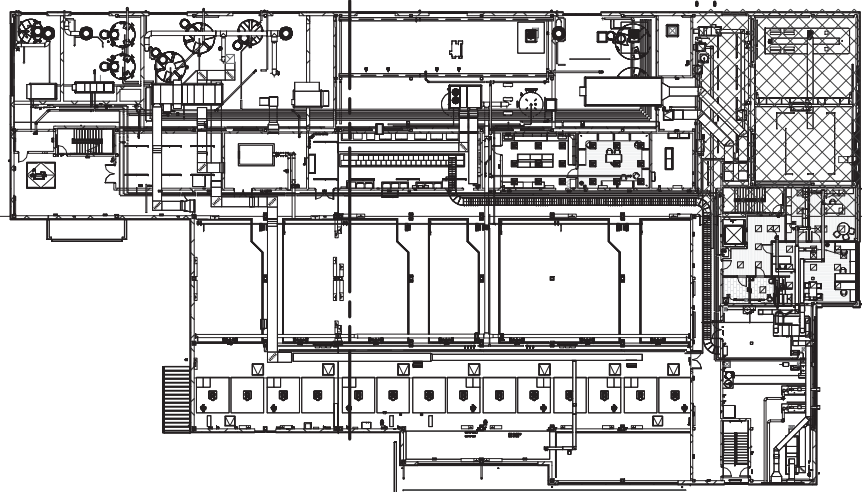
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-147



- NOTES:
1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
 2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
 3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"
6 4 2 0 5'

FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 3
3/16" = 1'-0"

WARNING:
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REV				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	R. CHUNG
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
	ISSUED FOR	DATE	BY		

BID SET



Hazen

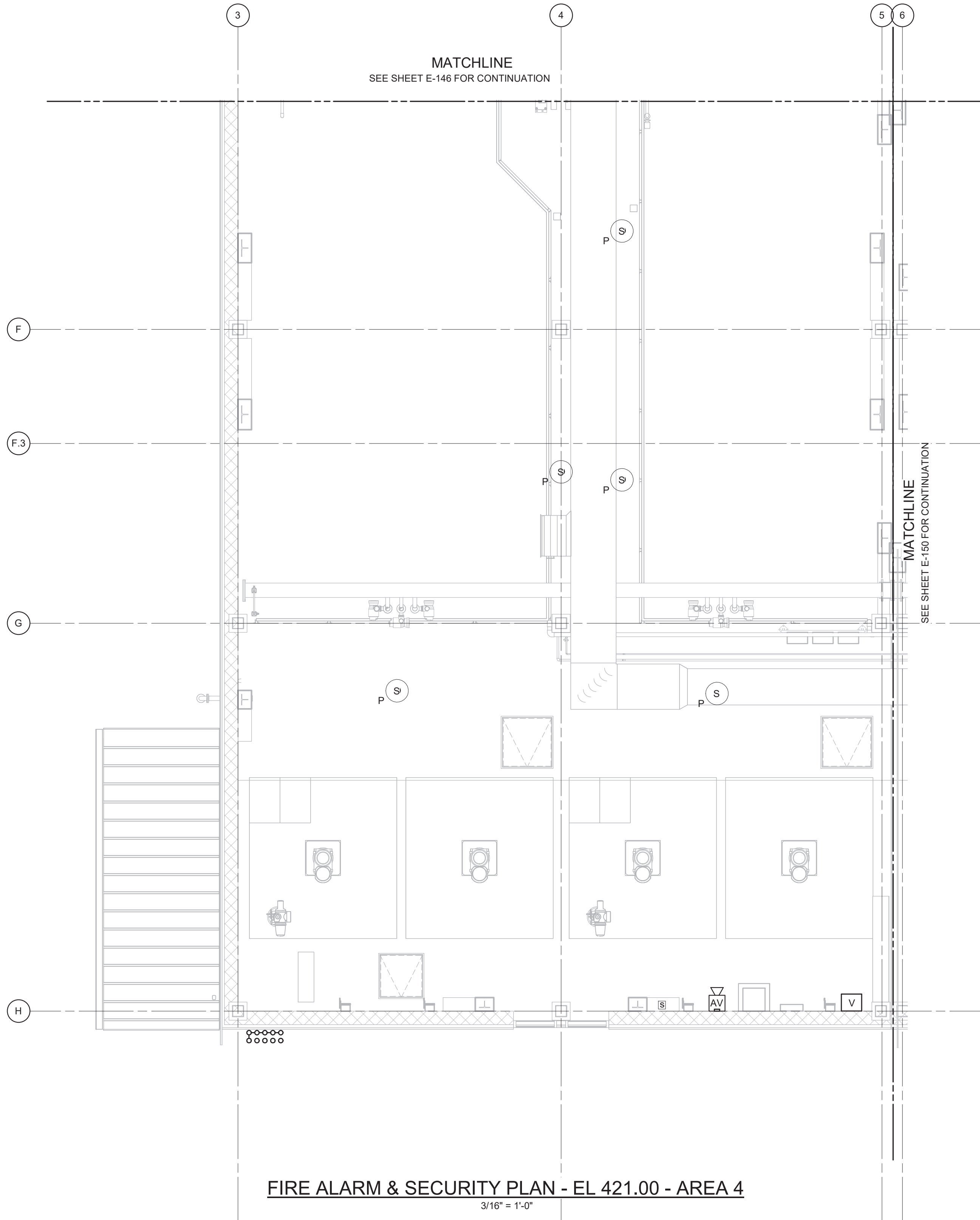
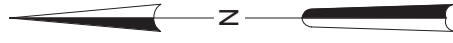
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-148

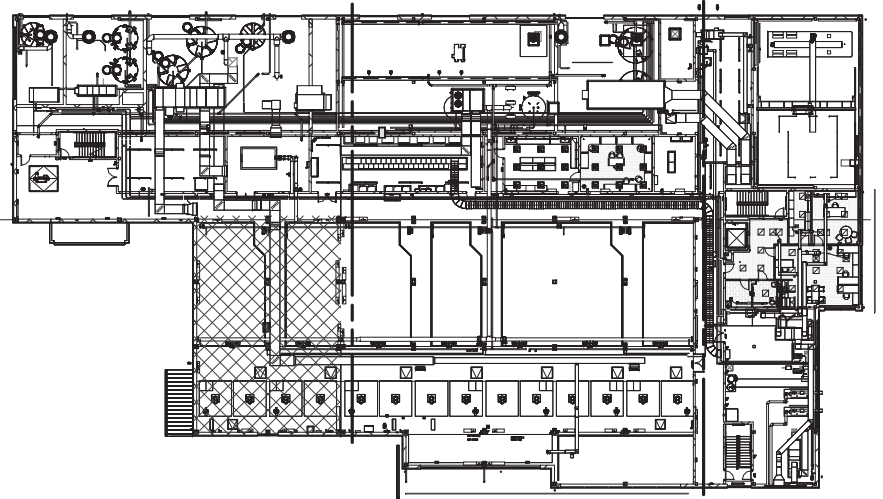


FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 4

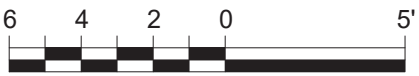
3/16" = 1'-0"

NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"



WARNING
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

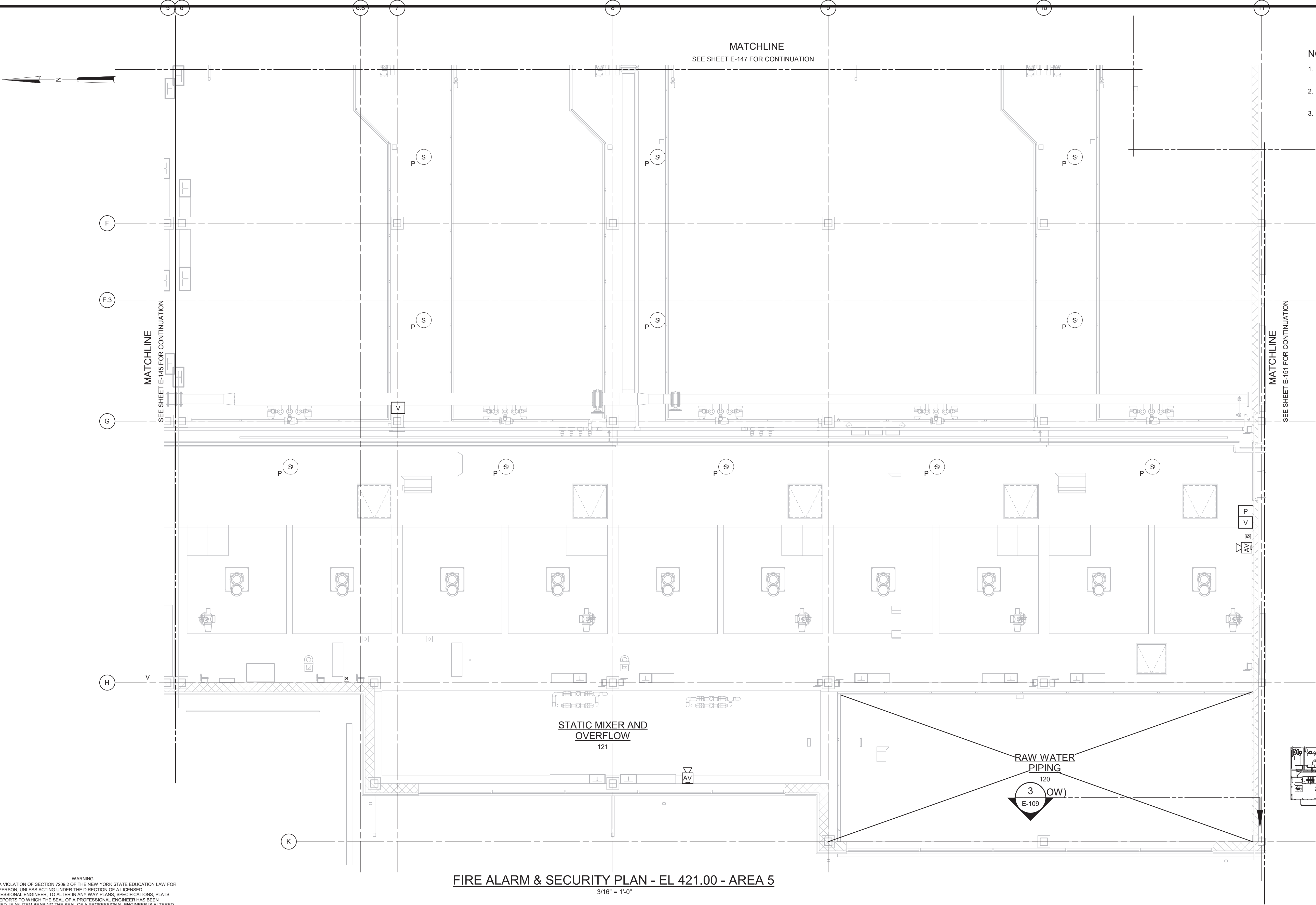
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

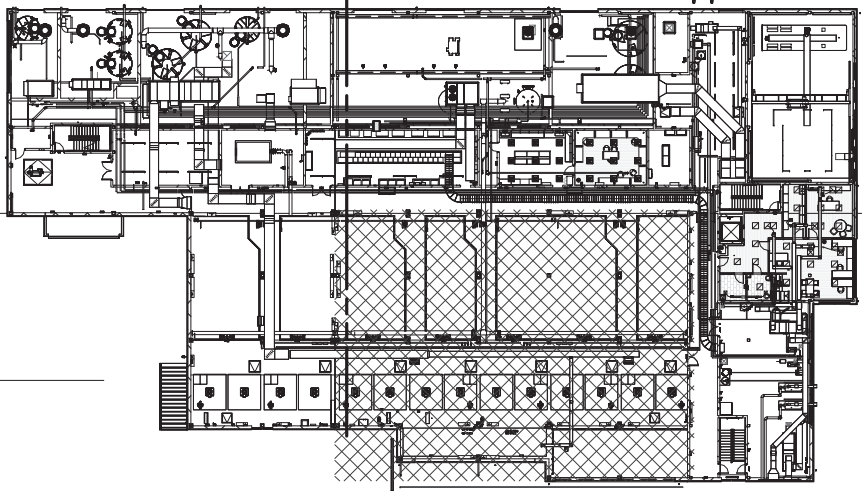
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 4

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-149



- NOTES:
1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
 2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
 3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"

6 4 2 0 5'

FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 5

3/16" = 1'-0"

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

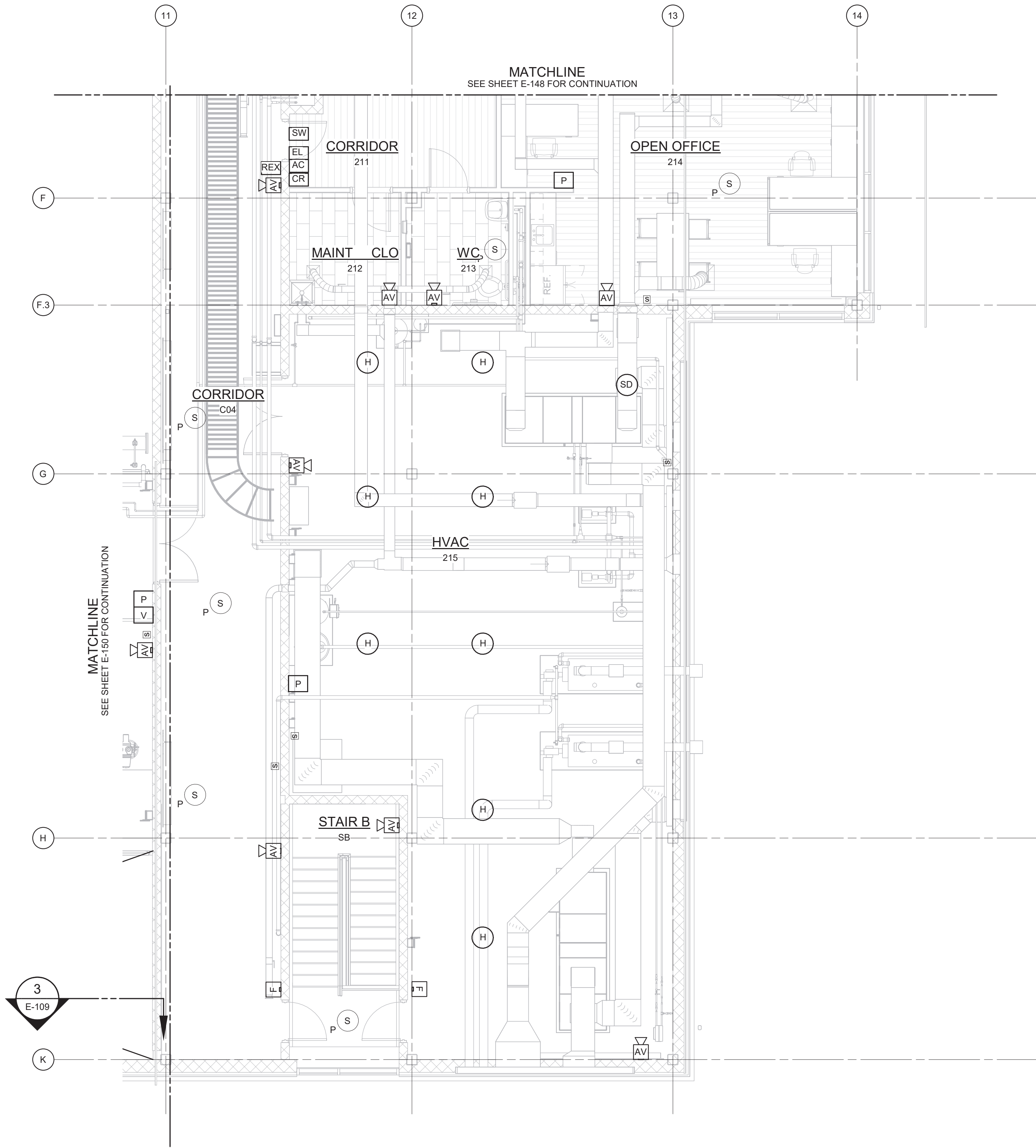
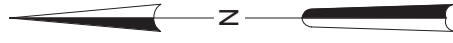
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 5

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-150

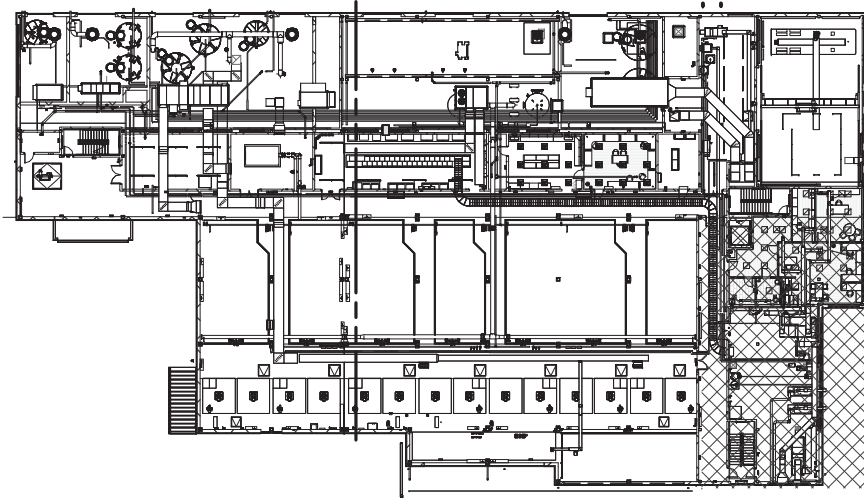


FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 6

3/16" = 1'-0"

NOTES:

1. REFER TO SPECIFICATION 28 46 20 FOR FIRE ALARM SYSTEM DETAILS.
2. REFER TO SPECIFICATION 28 10 00 FOR SECURITY SYSTEM DETAILS.
3. REFER TO SPECIFICATION 27 51 16 FOR PUBLIC ADDRESS SYSTEM DETAILS.



3/16" = 1'-0"

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

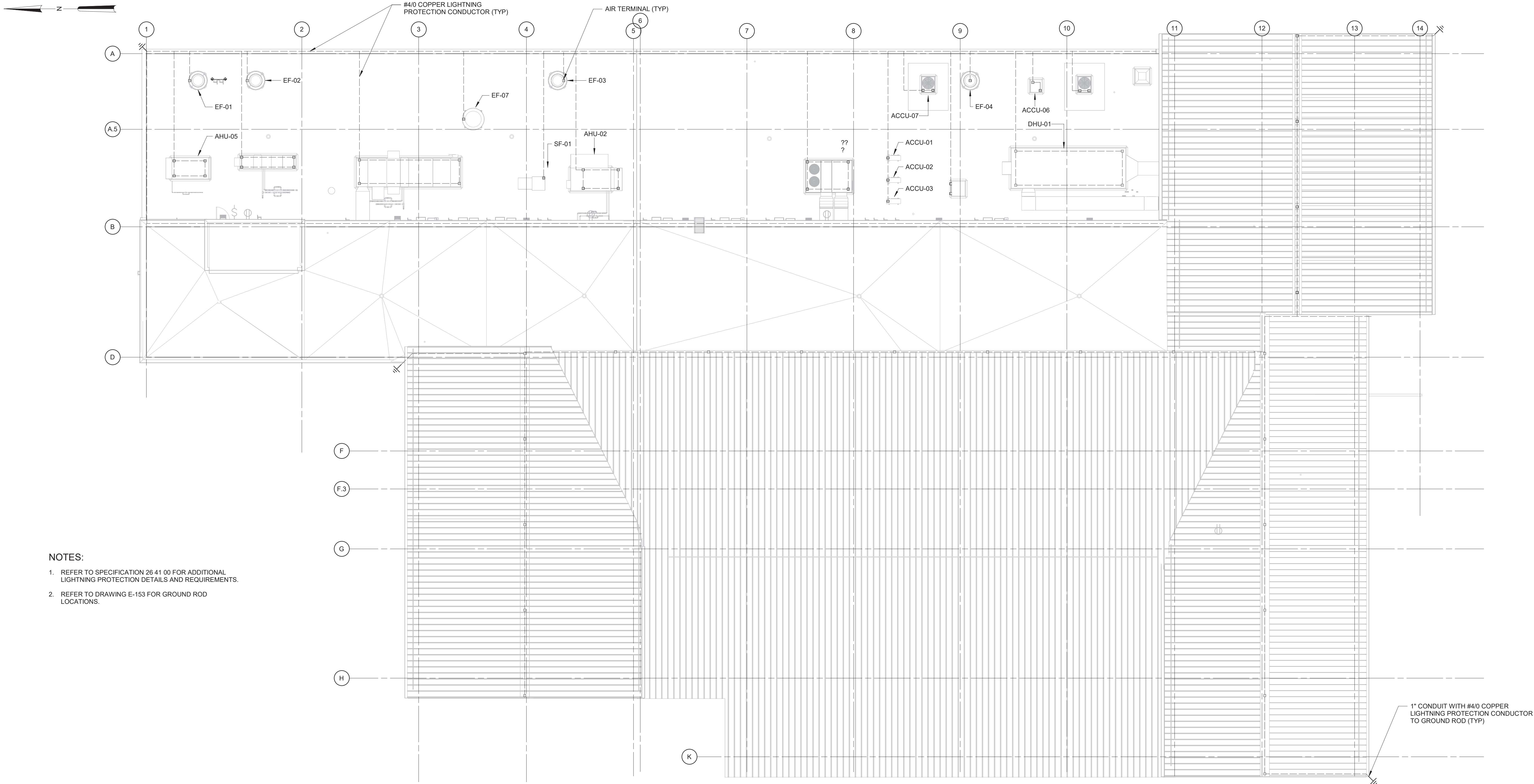
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
FIRE ALARM & SECURITY PLAN - EL 421.00 - AREA 6

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-151



NOTES:

- REFER TO SPECIFICATION 26 41 00 FOR ADDITIONAL LIGHTNING PROTECTION DETAILS AND REQUIREMENTS.
- REFER TO DRAWING E-153 FOR GROUND ROD LOCATIONS.

LIGHTNING PROTECTION PLAN

3/32" = 1'-0"

3/32" = 1'-0"



1" CONDUIT WITH #4/0 COPPER LIGHTNING PROTECTION CONDUCTOR TO GROUND ROD (TYP)

WARNING:
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



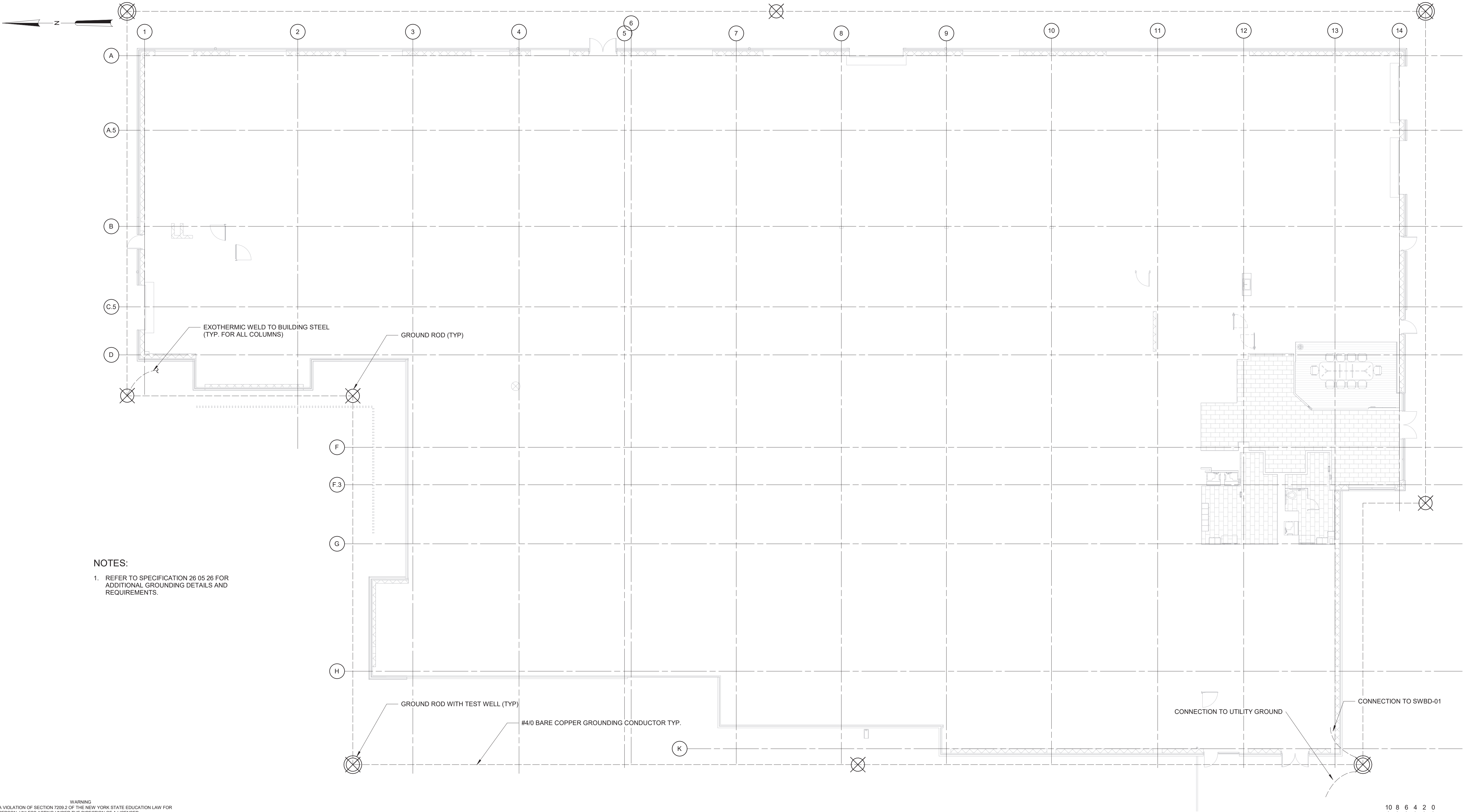
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
LIGHTNING PROTECTION PLAN

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-152



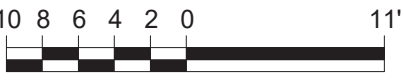
NOTES:

1. REFER TO SPECIFICATION 26 05 26 FOR ADDITIONAL GROUNDING DETAILS AND REQUIREMENTS.

GROUNDING PLAN

3/32" = 1'-0"

3/32" = 1'-0"



WARNING:
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	R. CHUNG
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



Hazen

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

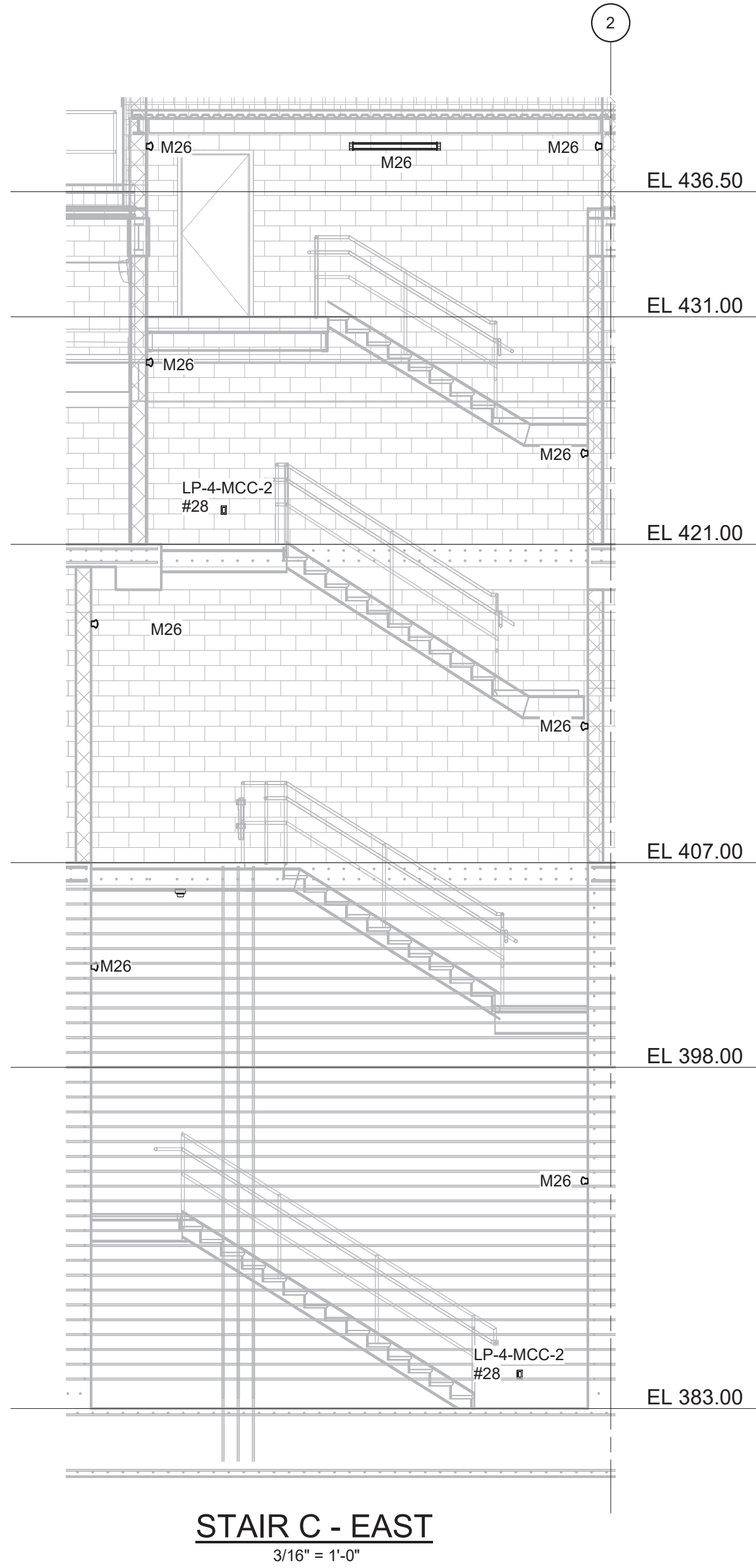
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
GROUNDING PLAN

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-153

- NOTES:
1. REFER TO SPECIFICATION 26 50 00 FOR LIGHTING FIXTURE SCHEDULE.
 2. REFER TO DRAWINGS E-012 TO E-017 FOR PANELBOARD SCHEDULES.



Autodesk Docu/90388-000_Rye_Lake_Filtration/90388-000-WFP-E-01
4/15/2025 3:09:35 PM

WARNING
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

				PROJECT ENGINEER:	R. FROST
				DESIGNED BY:	Y. ABDALLA
				DRAWN BY:	P. NUGENT
				CHECKED BY:	G. MARKOU
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR	DATE	BY		

BID SET



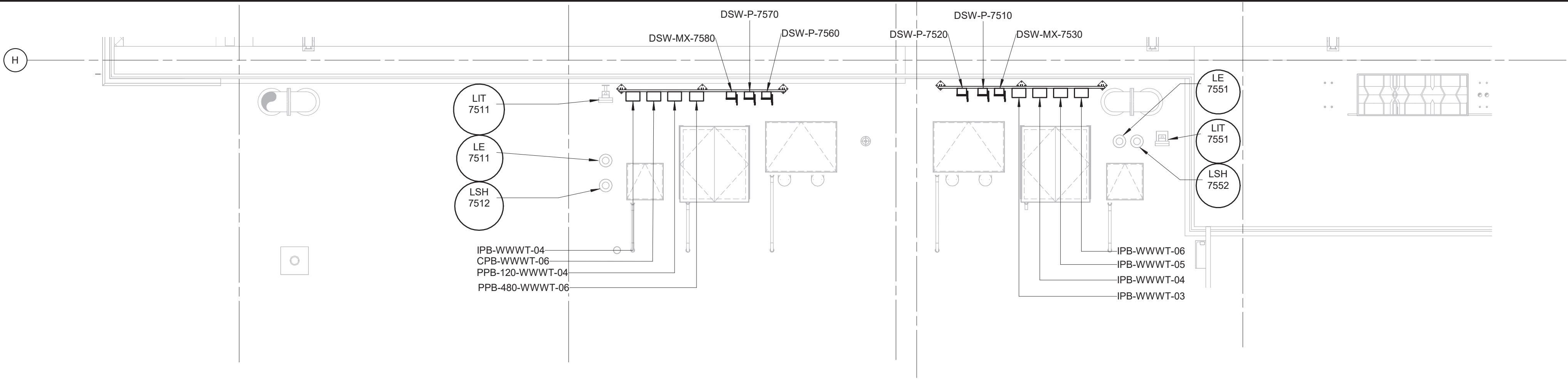
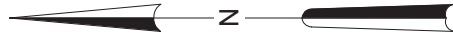
Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

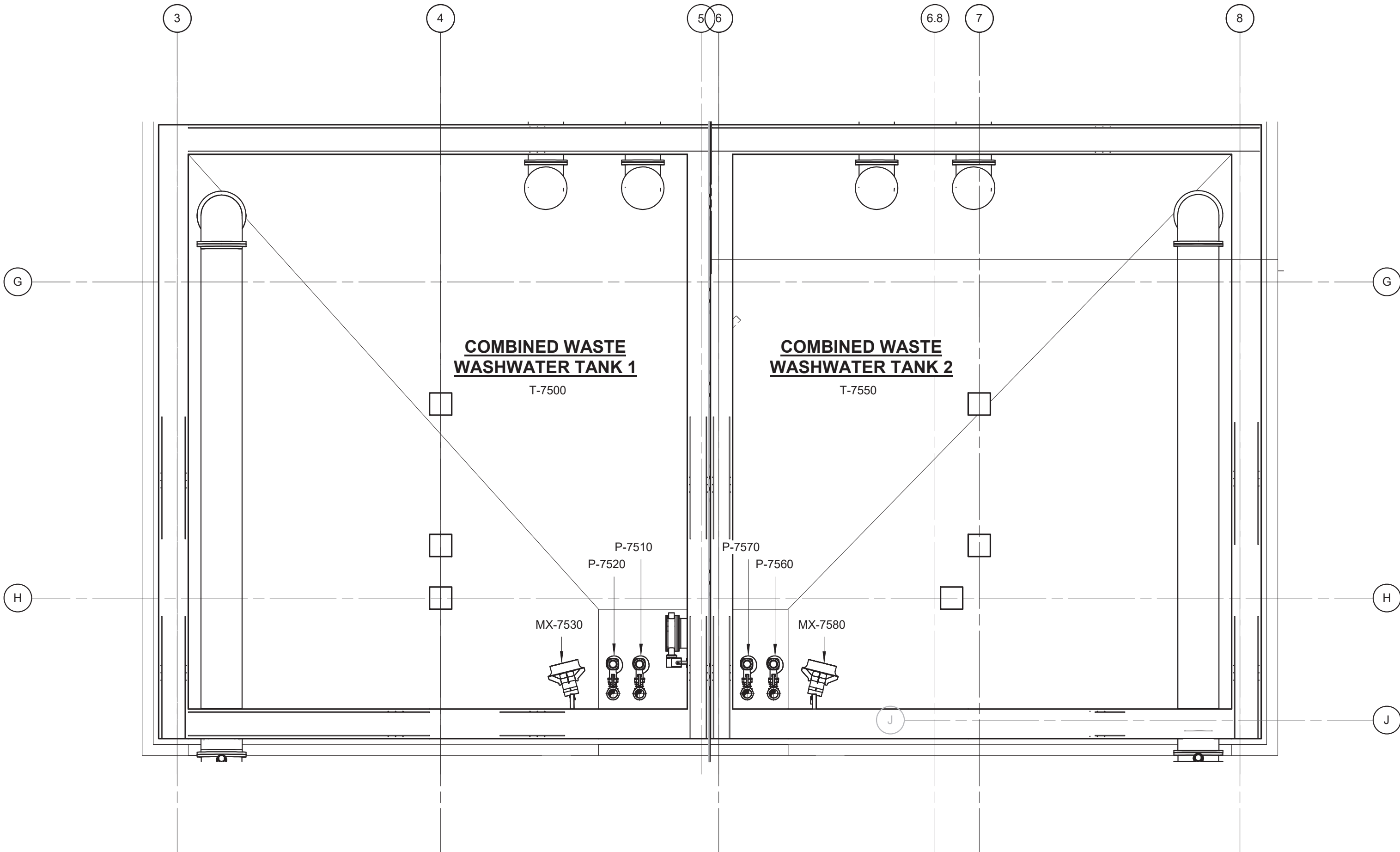
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

FILTRATION PLANT
ELECTRICAL
STAIRCASE SECTIONS - SHEET 2

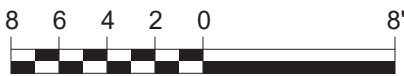
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-202



POWER PLAN EL. 407.00 - WASTE WASHWATER TANK
3/16" = 1'-0"



POWER PLAN EL. 400.00 - WASTE WASHWATER TANKS - 400.00
1/8" = 1'-0"



WARNING
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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	A. PENA
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



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

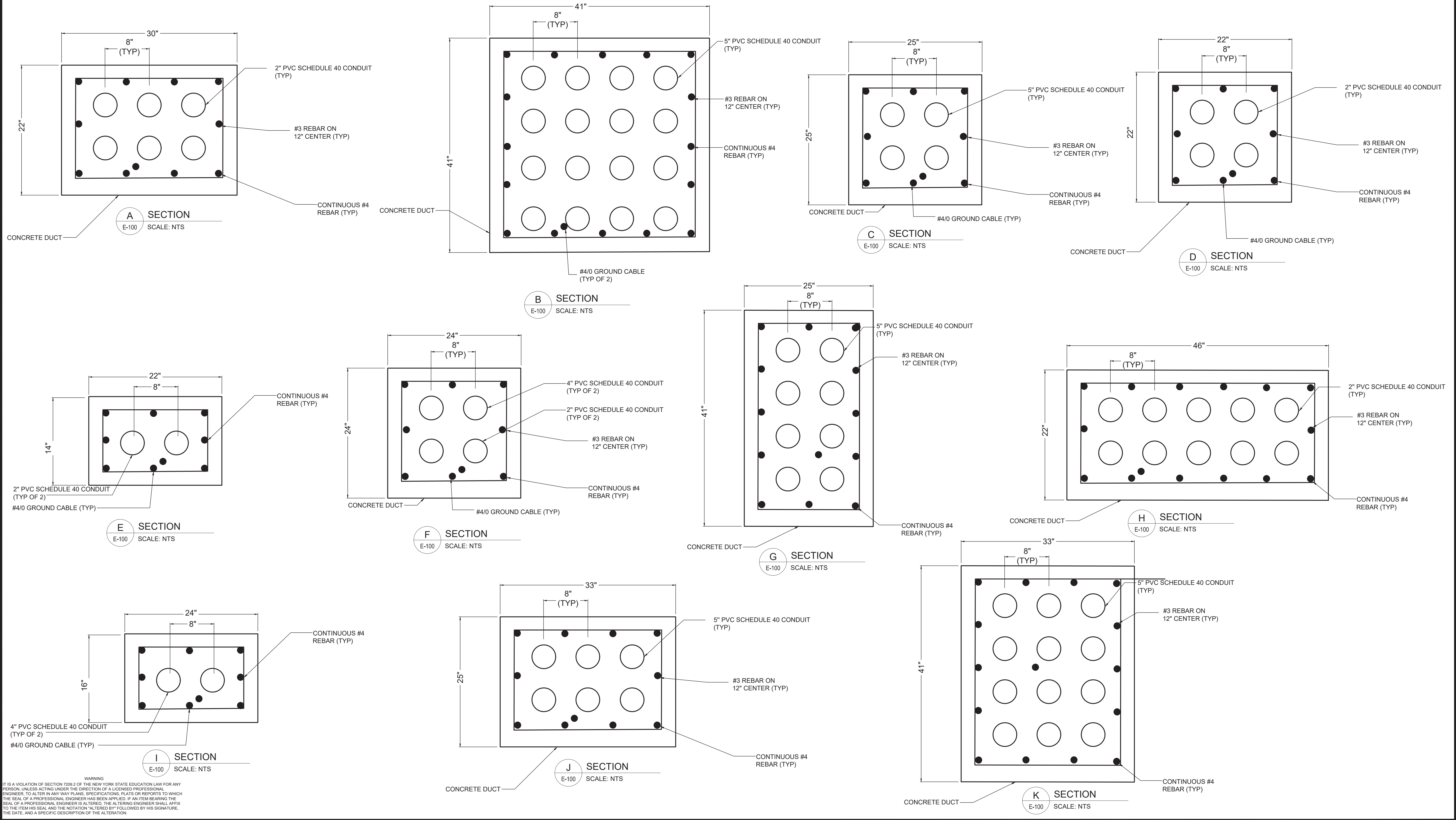
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

WASTE WASHWATER TANK
ELECTRICAL
WASTE WASHWATER TANK - POWER PLAN

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-501

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	Y. ABDALLA
DRAWN BY:	Y. ABDALLA
CHECKED BY:	G. MARKOU
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET

Hazen

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

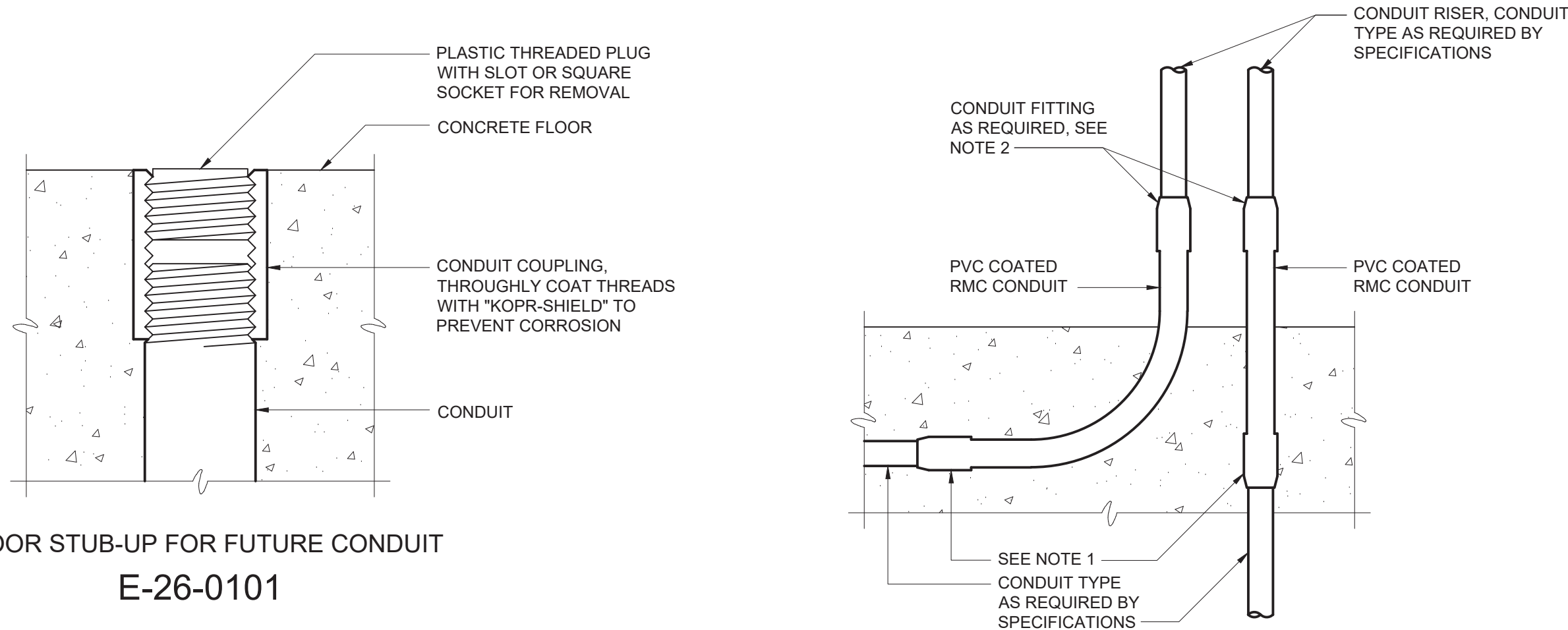
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
DUCT BANK DETAILS

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-601

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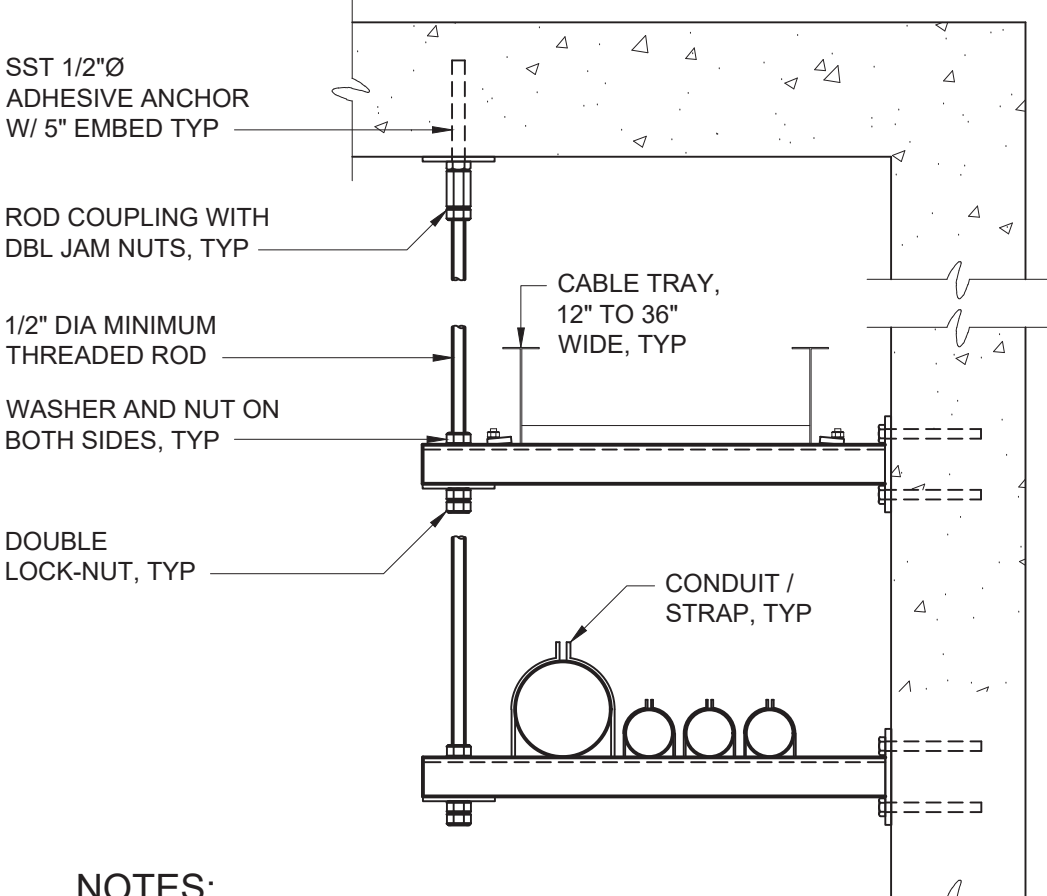


FLOOR STUB-UP FOR FUTURE CONDUIT
E-26-0101

NOTES:

1. FOR ENCASED PVC CONDUIT USE PVC TERMINAL ADAPTER. FOR ALL OTHER CONDUIT TYPES, USE PVC COATED RMC COUPLINGS.
2. IF ANY THREADS OF THE PVC COATED RMC CONDUIT ARE EXPOSED AFTER INSTALLATION OF THE CONDUIT FITTING, THE CONDUIT FITTING SHALL BE PVC COATED TYPE WITH APPROPRIATE PVC SKIRTS. IF THE THREADS OF THE PVC COATED RMC CONDUIT ARE PROPERLY CUT SO THAT THEY ARE NOT EXPOSED AFTER INSTALLATION OF THE CONDUIT FITTING, THE CONDUIT MATERIAL SHALL BE AS REQUIRED BY THE SPECIFICATIONS, BASED ON THE MATERIAL OF THE CONDUIT RISER.

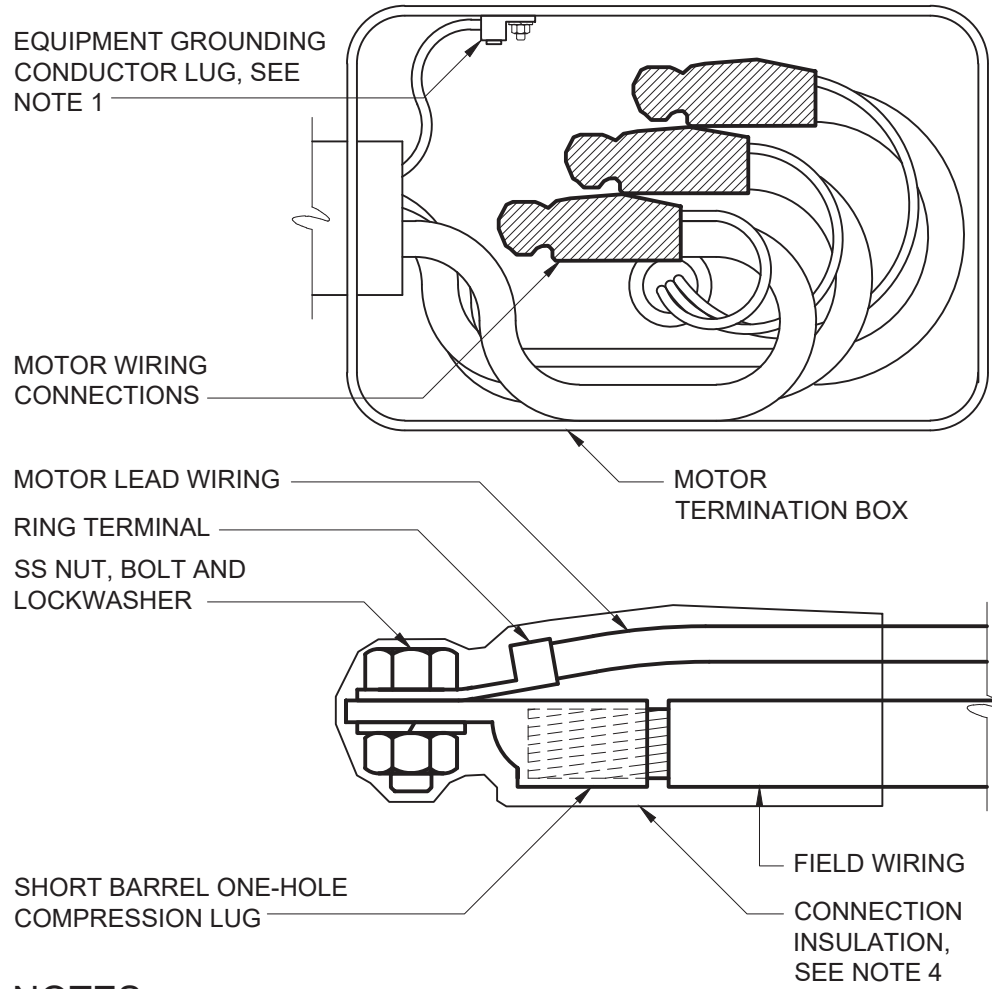
CONDUIT EXITING CONCRETE ENCASEMENT
E-26-0102



NOTES:

1. SPACE SUPPORTS AT 5'-0" MAXIMUM. HANGER SPACING SHALL BE BASED ON MAXIMUM LOAD.
2. ALL THREAD ROD SHALL BE USED ONLY FOR DUAL TRAY.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.
4. STRUT SHALL BE 12 GAUGE MINIMUM.

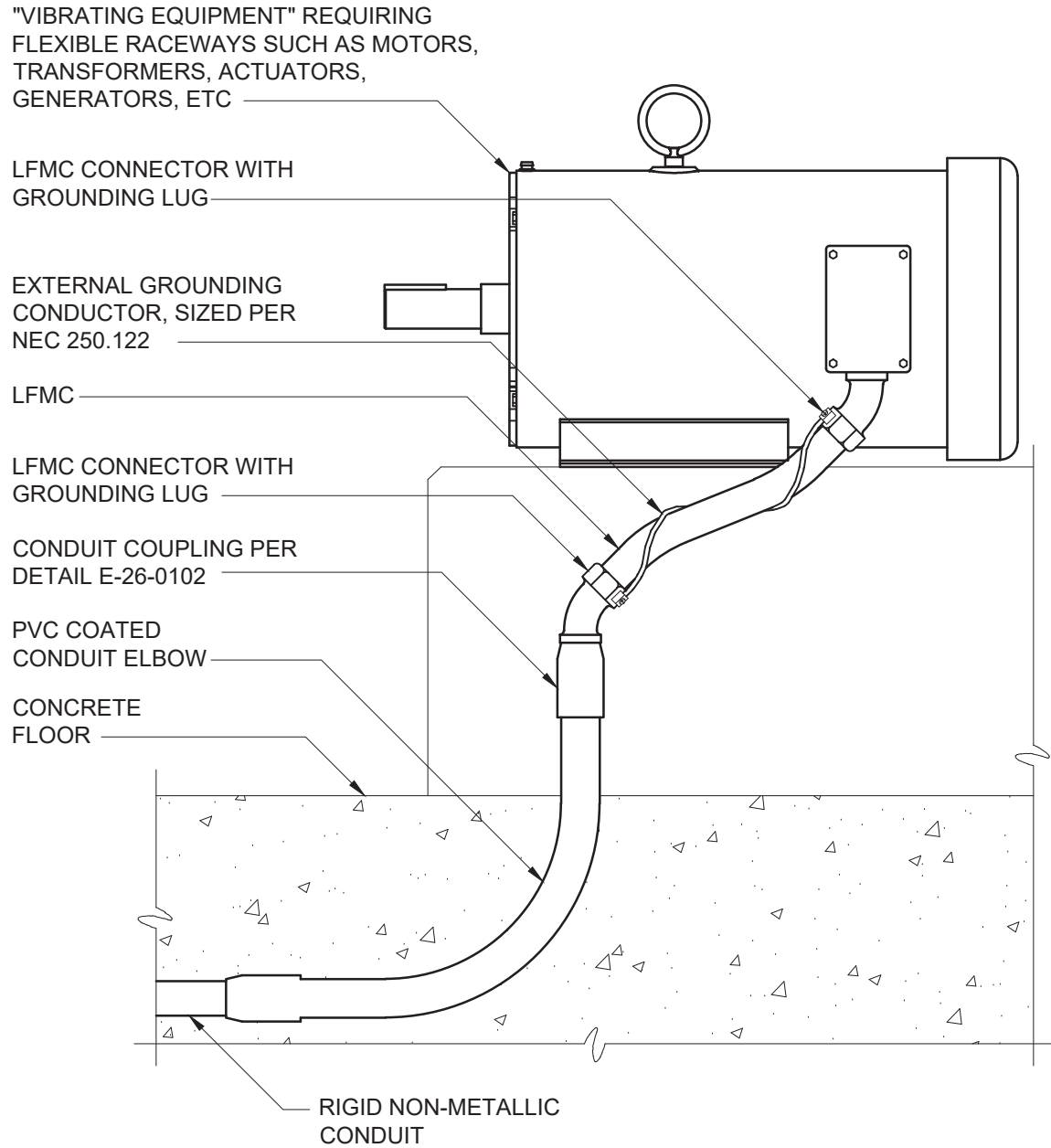
WALL MOUNTED RACEWAY SUPPORT RACK
E-26-0202



NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR LUG SHALL BE ATTACHED WITH NUT AND LOCKWASHER TO THE MOTOR GROUNDING STUD. WHERE PROVIDED, FACTORY INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUGS ARE ACCEPTABLE IN LIEU OF THE FIELD INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUG.
2. RING TERMINALS ON MOTOR LEADS SHALL BE FACTORY INSTALLED BY THE MOTOR MANUFACTURER.
3. INSTALL SHORT BARREL COMPRESSION CONNECTOR ON FIELD WIRING WITH MANUFACTURER'S RECOMMENDED COMPRESSION TOOL AND CRIMPING DIE. CONNECTORS SHALL HAVE SMOOTHLY ROUNDED EDGES.
4. HEAT SHRINK OR COLD APPLIED CONNECTOR INSULATION LISTED FOR THE PURPOSE AND AS SPECIFIED.

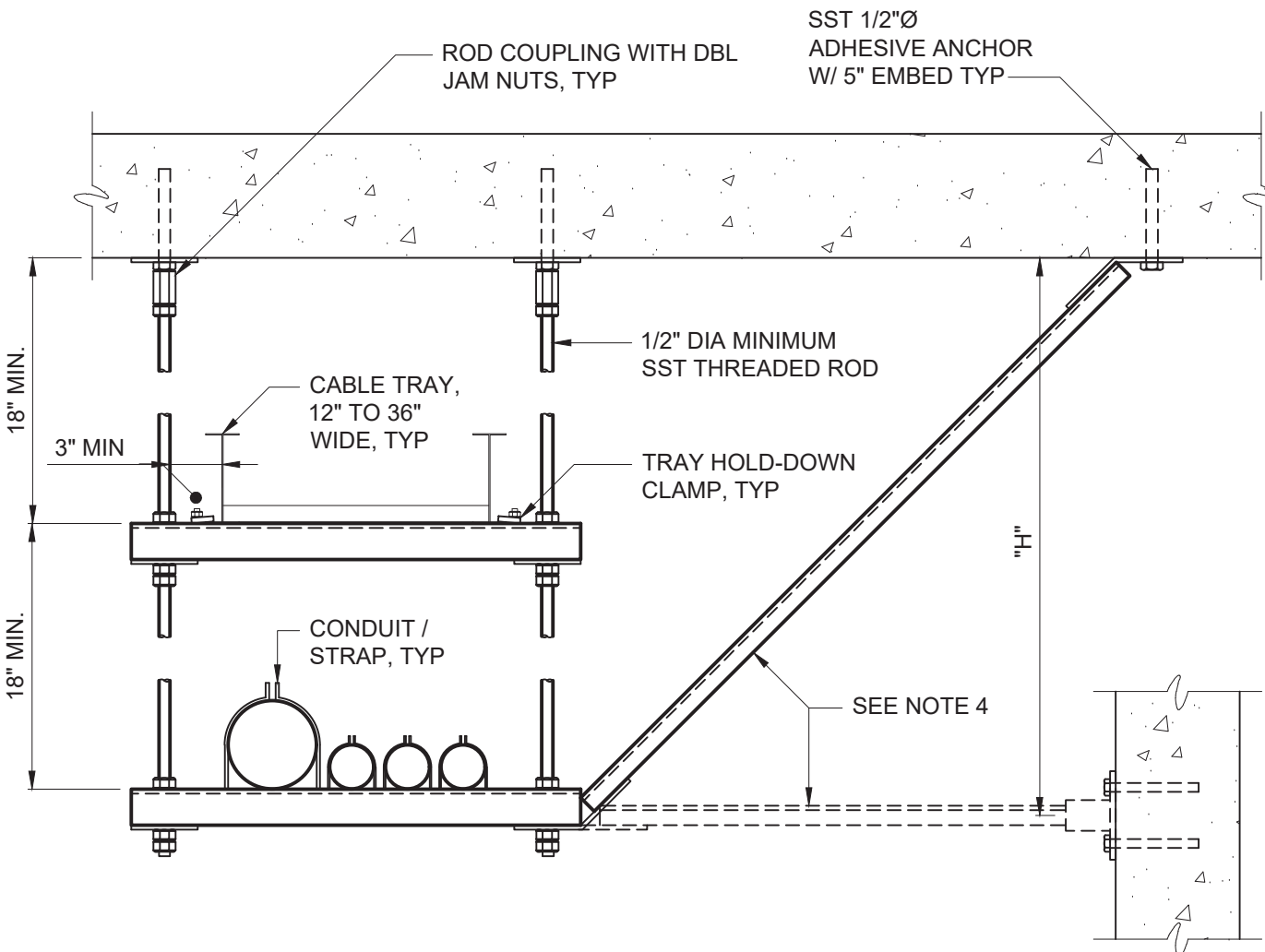
LOW VOLTAGE MOTOR TERMINATION
E-26-0301



NOTES:

1. WHERE NON-METALLIC CONDUIT TRANSITIONS TO RIGID METALLIC CONDUIT AND / OR LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT, (LFMC), TO FEED VIBRATING TYPE LOADS, THE CONTRACTOR SHALL FURNISH AND INSTALL AN EXTERNAL BARE COPPER GROUNDING CONDUCTOR AND APPROVED GROUNDING LFMC CONNECTORS TO ENSURE GROUND CONTINUITY TO THE RIGID METALLIC CONDUIT AS SHOWN. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO NEC 250.122 AND BE NEATLY WRAPPED AROUND LFMC AS SHOWN. LFMC INSTALLED IN THIS MANNER CANNOT BE USED FOR A CONTINUOUS GROUND PATH PER NEC 350.60.

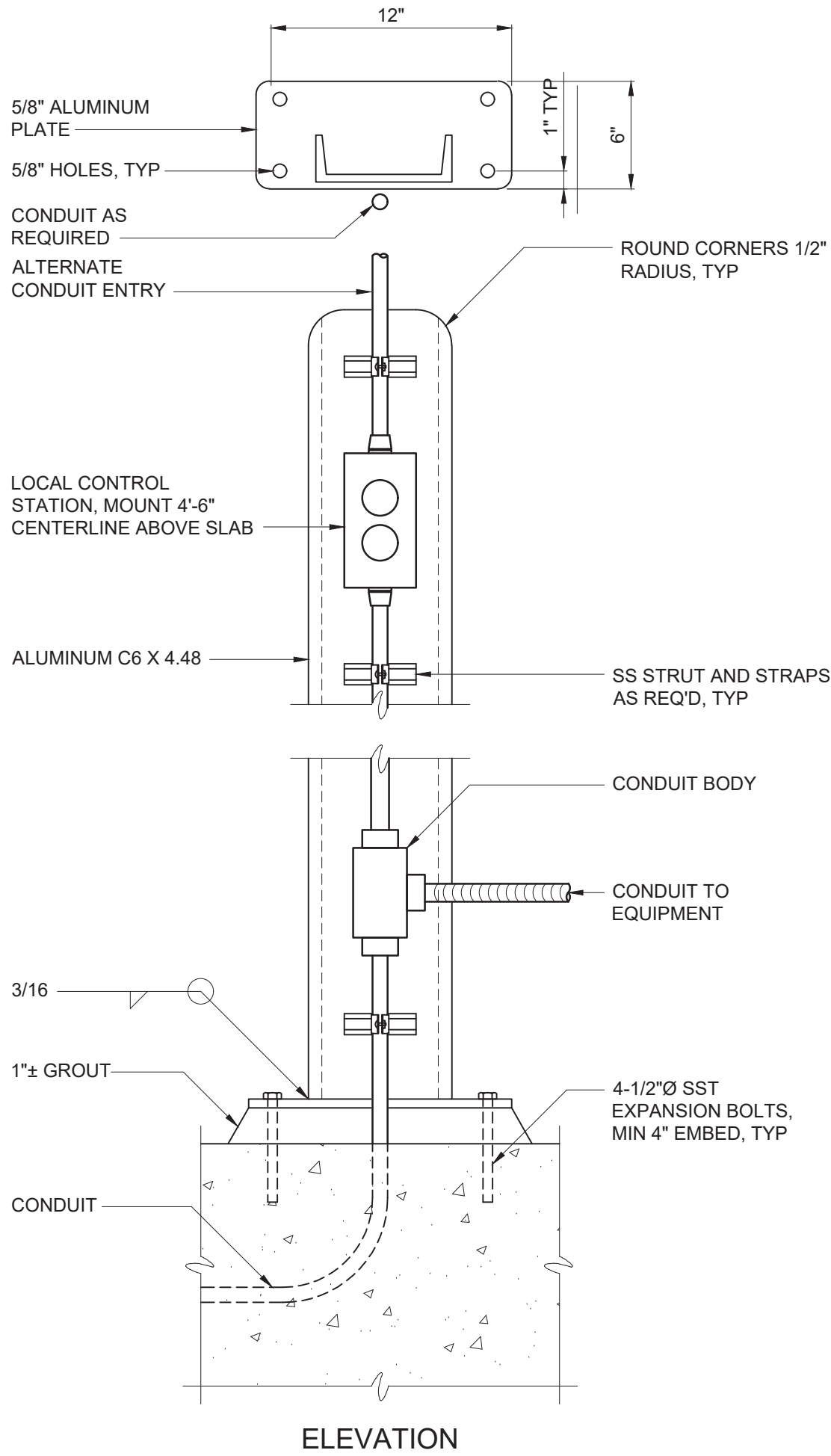
LFMC CONDUIT GROUND STRAP
E-26-0104



NOTES:

1. SPACE SUPPORTS AT 5'-0" MAXIMUM. HANGER SPACING SHALL BE BASED ON MAXIMUM LOAD.
2. ALL THREAD ROD SHALL BE USED ONLY FOR DUAL TRAYS / RACKS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.
4. PREFORMED BRACING CHANNEL AT 30'-0" SPACING MAX. BRACE AT INTERMEDIATE LEVEL WHEN "H" DIMENSION EXCEEDS 6'-0".
5. STRUT SHALL BE 12 GAUGE MINIMUM.

SUSPENDED RACEWAY SUPPORT RACK
E-26-0201



NOTES:

1. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECIFICATIONS.
2. CONSTRUCT 1'-2" DIAMETER X 2'-6" DEEP FOUNDATION WHERE MOUNTING SURFACE IS NOT AVAILABLE.
3. USE SST WASHERS, NUTS AND BOLTS FOR MOUNTING DEVICES.

TYPICAL LOCAL CONTROL STATION
E-26-0401

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				CHECKED BY:	G. MARKOU
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REV	ISSUED FOR	DATE	BY		

BID SET



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

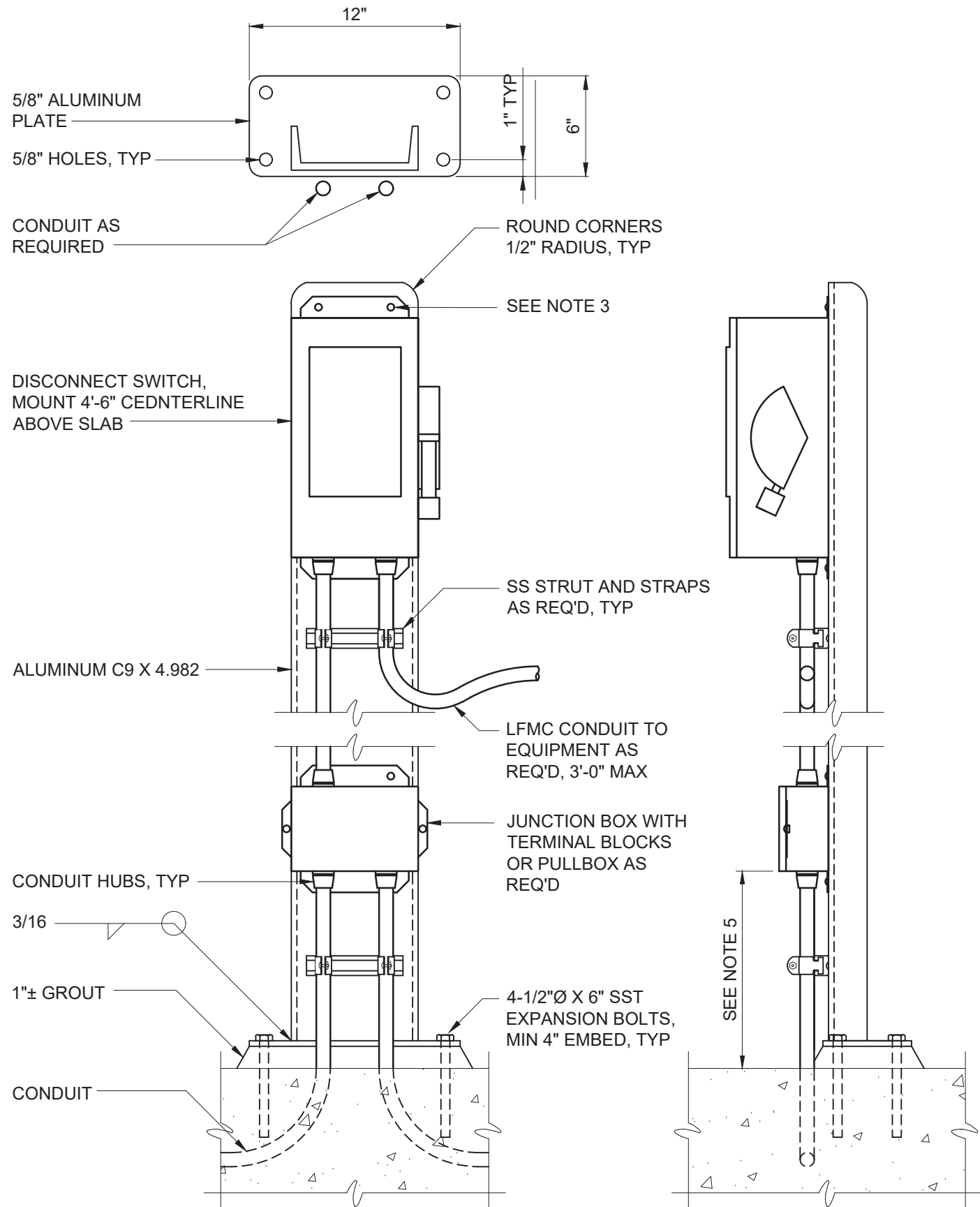
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
STANDARD DETAILS - SHEET 1

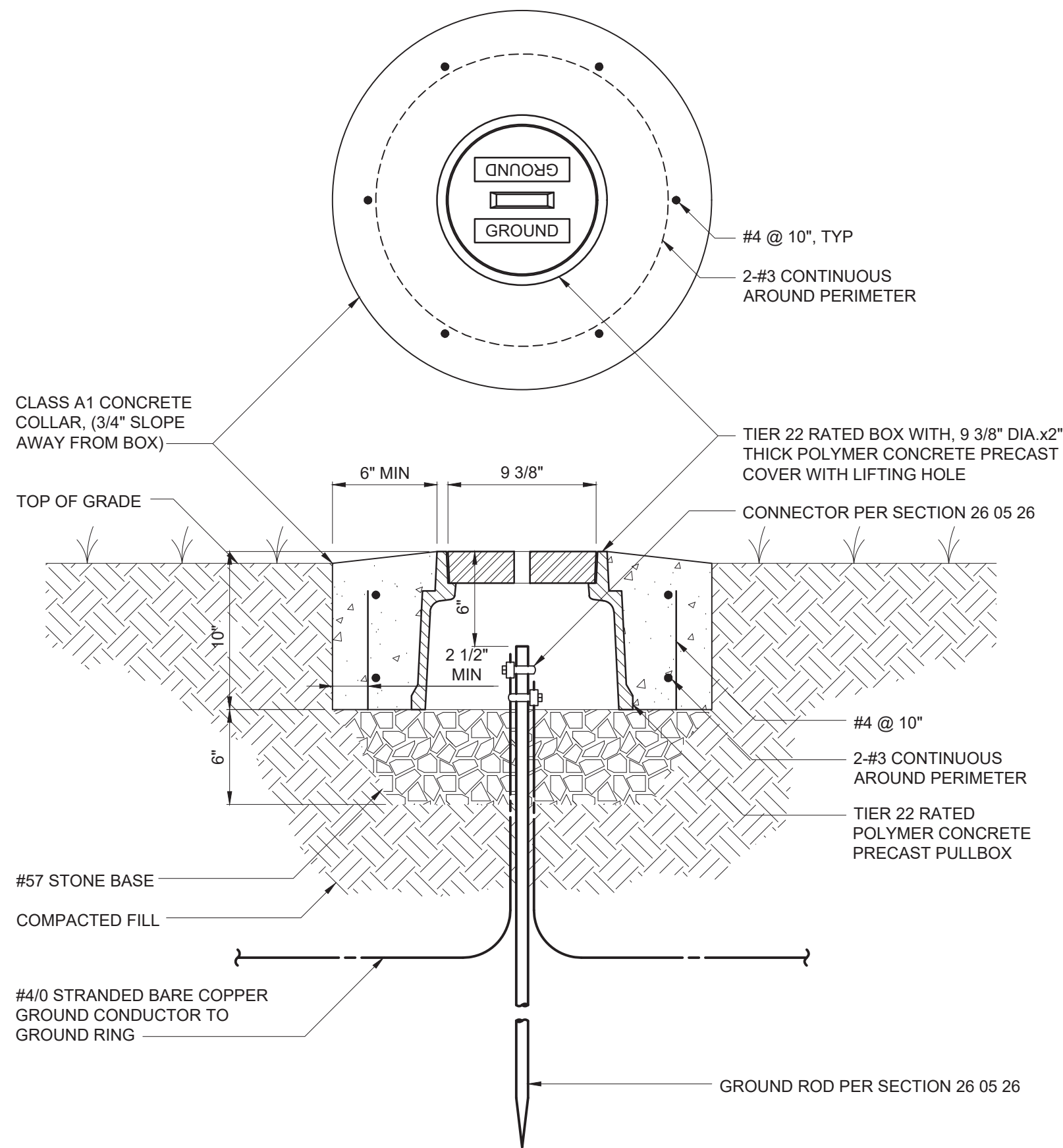
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-602

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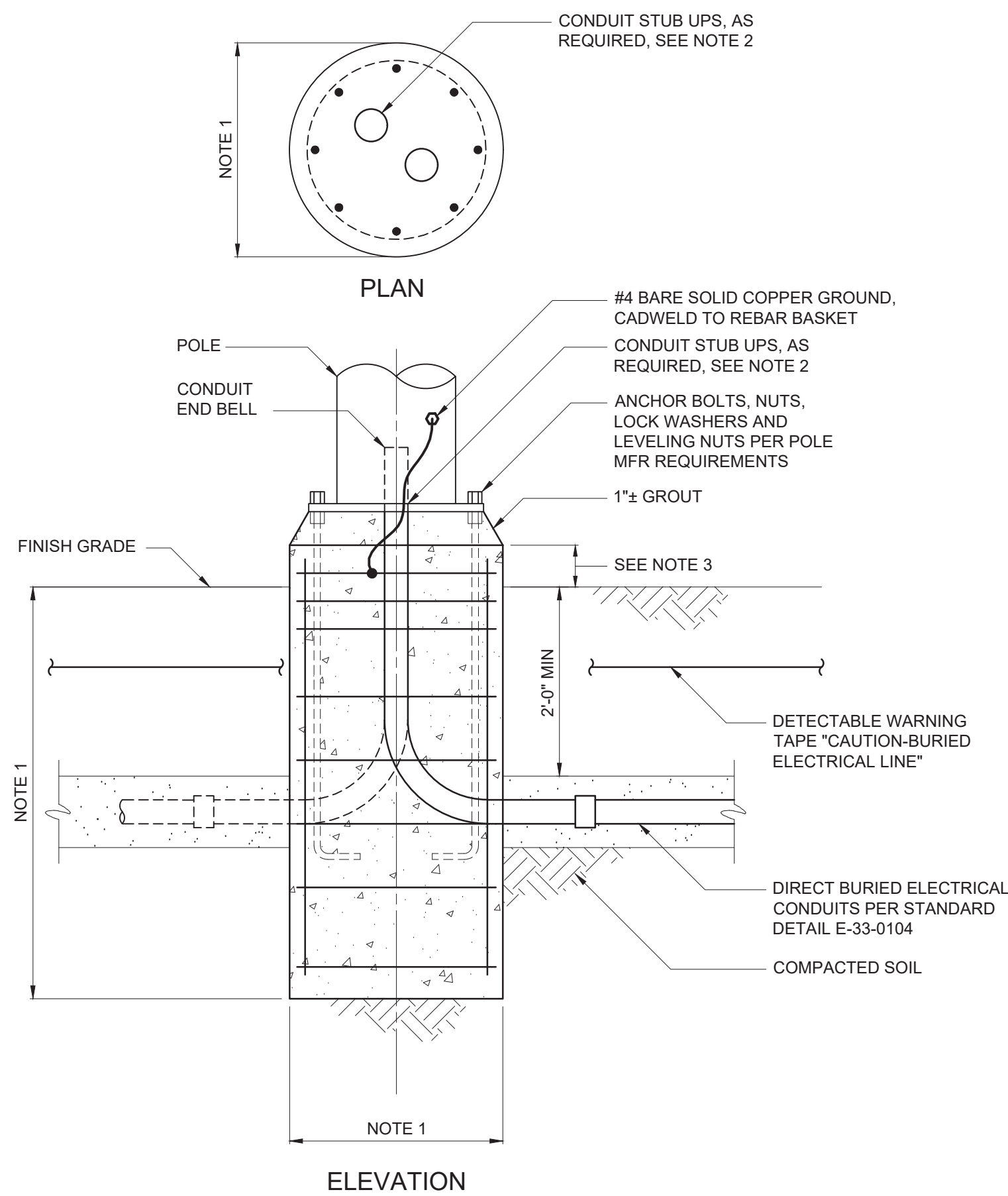
- NOTES:
1. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECIFICATIONS.
 2. CONSTRUCT 1'-2" DIAMETER X 2'-6" DEEP FOUNDATION WHERE MOUNTING SURFACE IS NOT AVAILABLE.
 3. USE SST WASHERS, LOCKWASHERS, NUTS AND BOLTS FOR MOUNTING EQUIPMENT AND STRUT SUPPORTS TO CHANNEL. DRILL EQUIPMENT MOUNTING TABS AS NECESSARY TO COORDINATE WITH CHANNEL WIDTH.
 4. REFERENCE STANDARD DETAIL E-26-0102 WHERE CONDUIT EMERGES FROM CONCRETE.
 5. COORDINATE MOUNTING HEIGHT ABOVE CONCRETE WITH AREA CLASSIFICATION REQUIREMENTS.

30 AND 60 AMP DISCONNECT SWITCH
E-26-0403



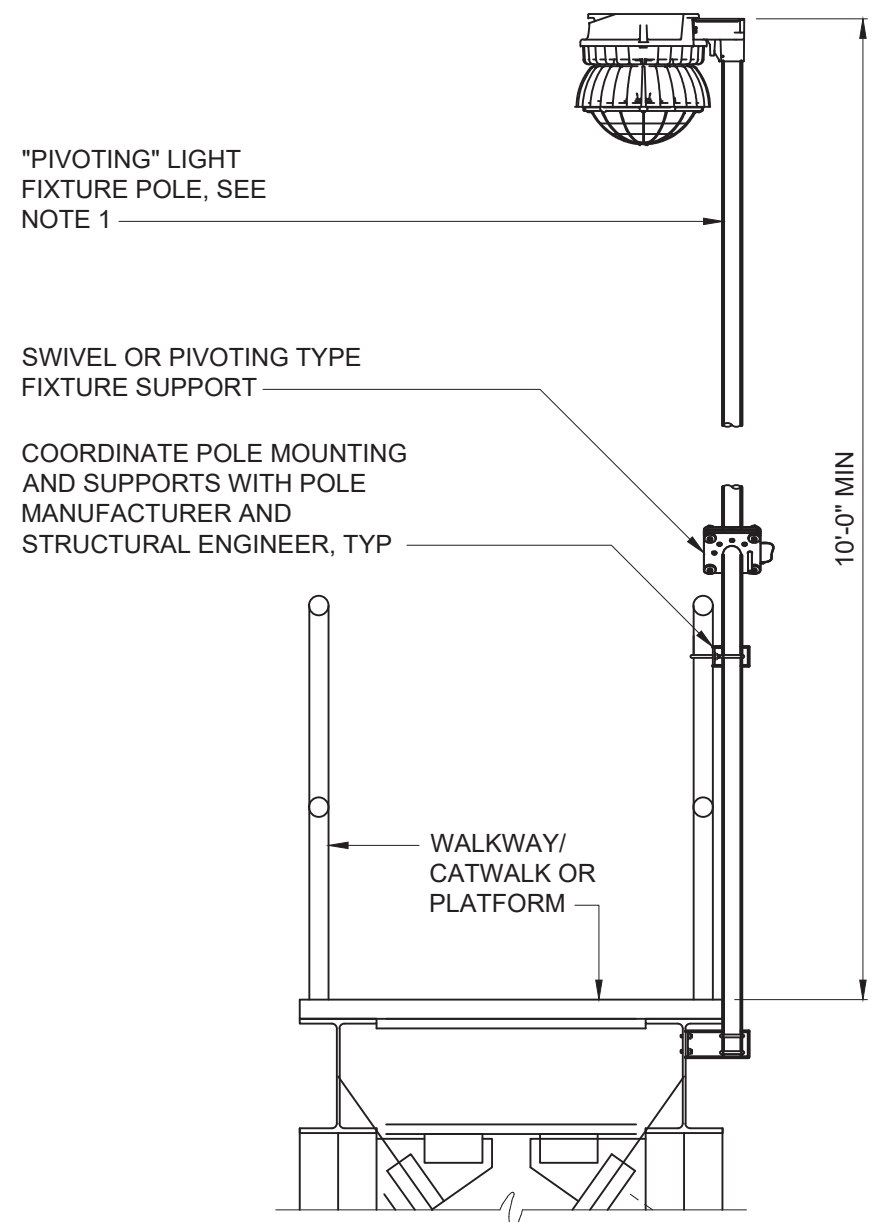
- NOTES:
1. PRECAST PULLBOX AND COVER SHALL BE OLDCASTLE PART NUMBER 09101187, OR APPROVED EQUAL.

GROUND ROD TEST WELL
E-26-0501



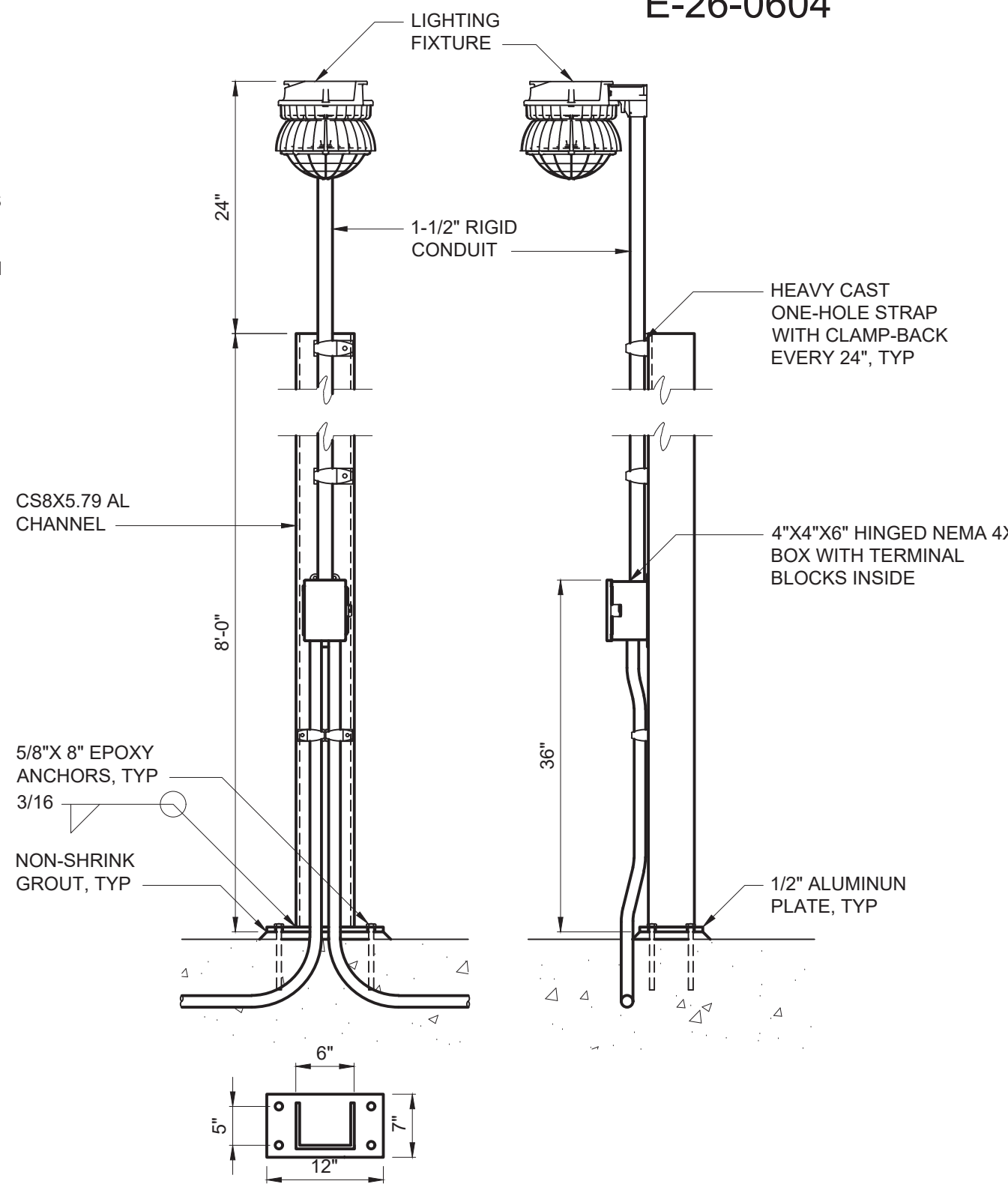
- NOTES:
1. DIAMETER, DEPTH AND REINFORCEMENT SHALL BE DETERMINED BY POLE MANUFACTURER IN ACCORDANCE WITH SECTION 26 50 00. LOADING SHALL BE IN ACCORDANCE WITH SECTION 26 50 00.
 2. CONTRACTOR SHALL CAREFULLY COORDINATE LOCATION AND QUANTITY OF CONDUITS IN THE BASE SO THAT WHEN POLE IS INSTALLED, IT WILL FIT OVER THE CONDUITS.
 3. PROJECTED HEIGHT ABOVE GRADE SHALL BE AS DESCRIBED IN THE POLE SCHEDULE IN 26 50 00.

POLE-MOUNTED LIGHTING FIXTURE BASE
E-26-0601



- NOTES:
1. INSTALL PIVOTING LIGHT FIXTURE POLE PER MANUFACTURER'S REQUIREMENTS. ORIENT POLE SUCH THAT PIVOTED POSITION OF FIXTURE IS OVER CATWALK/WALKWAY OR PLATFORM. THOUGH A PIVOTING POLE IS SHOWN FOR REFERENCE, THIS DETAIL ALSO APPLIES TO ALTERNATE TYPES OF COLLAPSIBLE POLES (E.G. TELESCOPING) WHERE SPECIFIED IN SECTION 26 50 00.
 2. POLE AND FIXTURE SHALL BE AS SPECIFIED IN SECTION 26 50 00.

WALKWAY OR PLATFORM
POLE MOUNTED FIXTURE
E-26-0604



STANCHION MOUNTED LIGHT FIXTURE (CHANNEL BASE)
E-26-0603

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REV	ISSUED FOR	DATE	BY		

BID SET



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

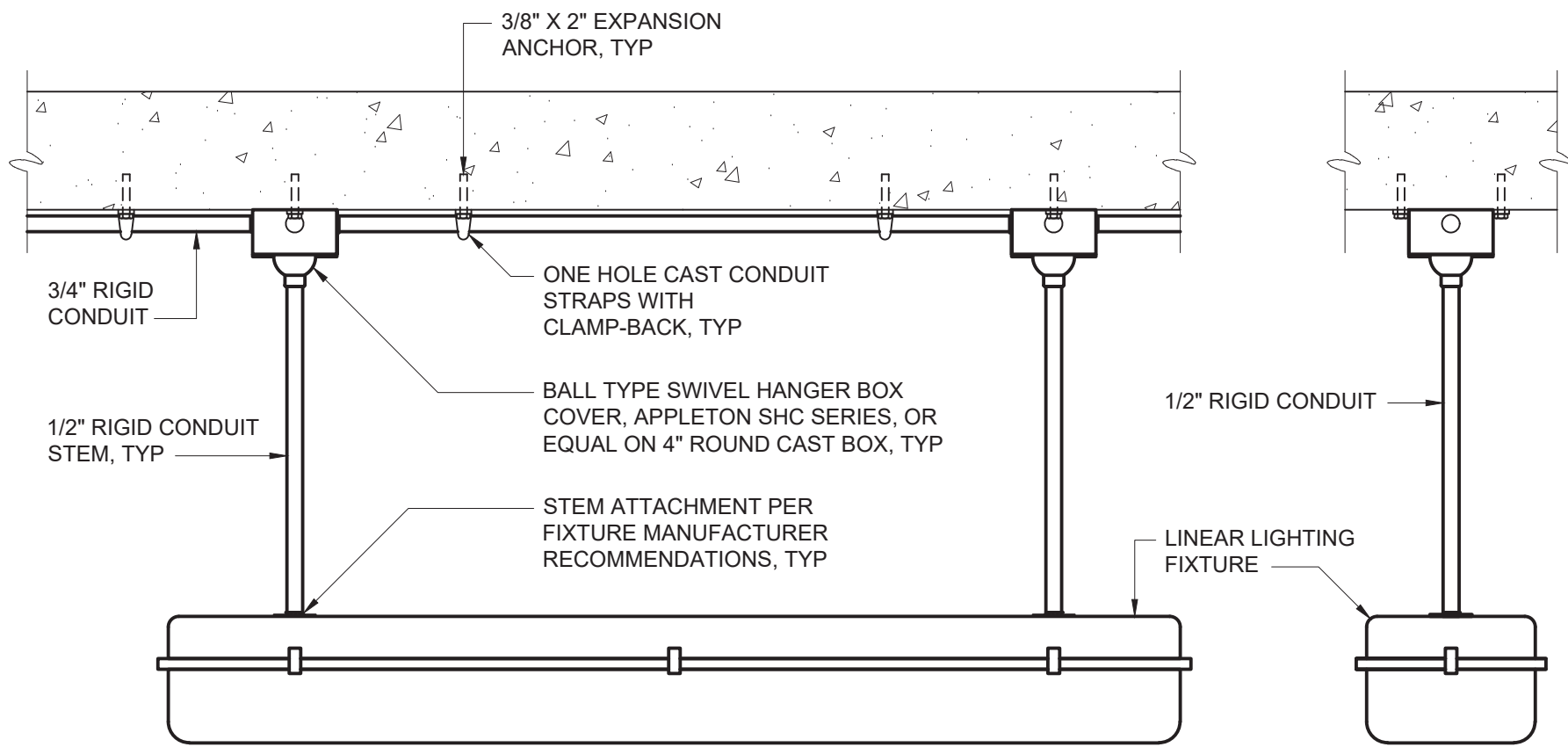
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
STANDARD DETAILS - SHEET 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-603

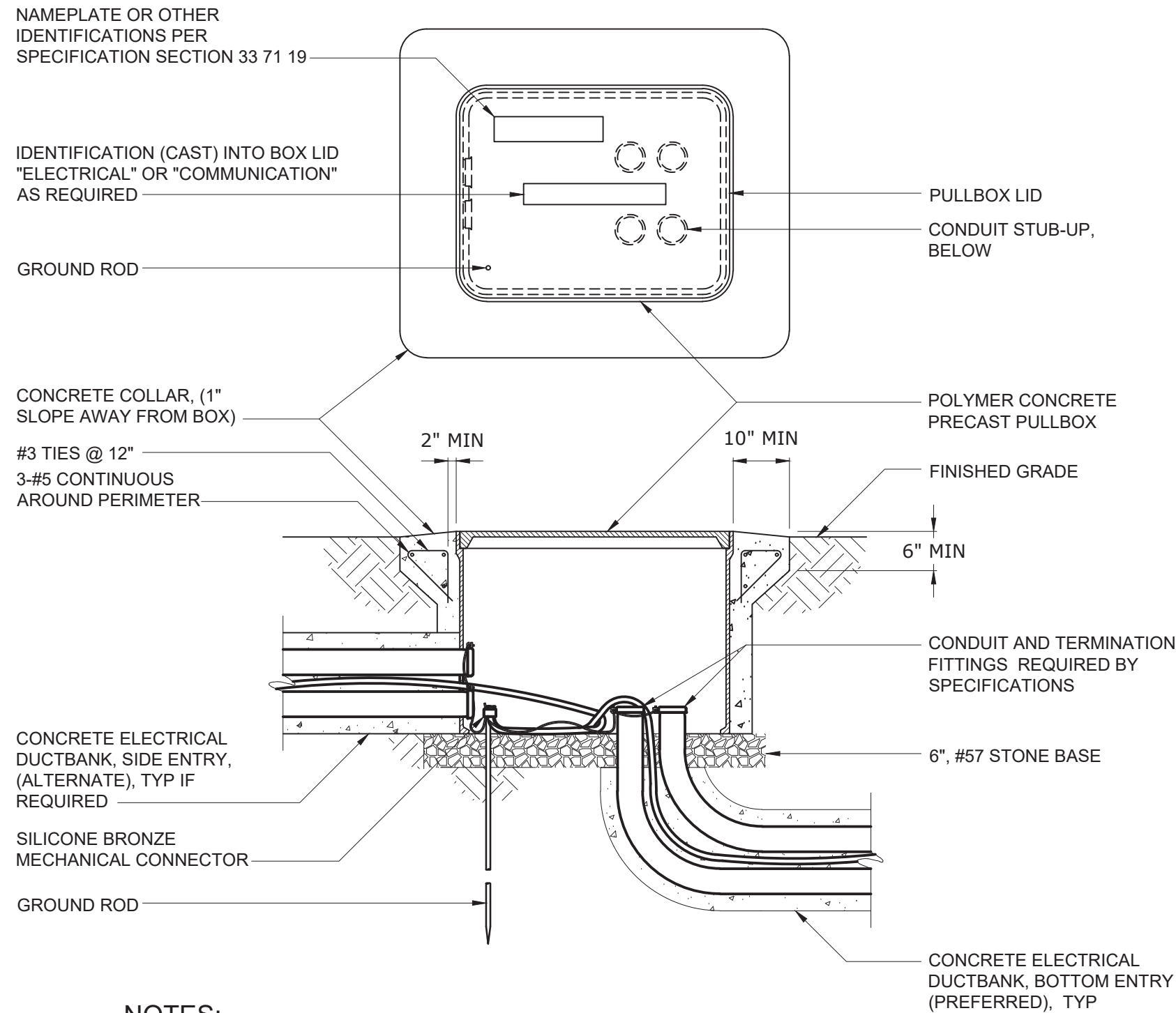
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NOTES:

1. ADDITIONAL SEISMIC SUPPORTS MAY BE REQUIRED, SEE CODE SUMMARY DRAWING AND DRAWING E1 FOR SEISMIC CLASSIFICATIONS.
2. CONDUIT TYPE AND MATERIALS OF CONSTRUCTION FOR SUPPORTS AND HARDWARE SHALL BE AS REQUIRED FOR THE AREA IN WHICH THE FIXTURE IS INSTALLED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.

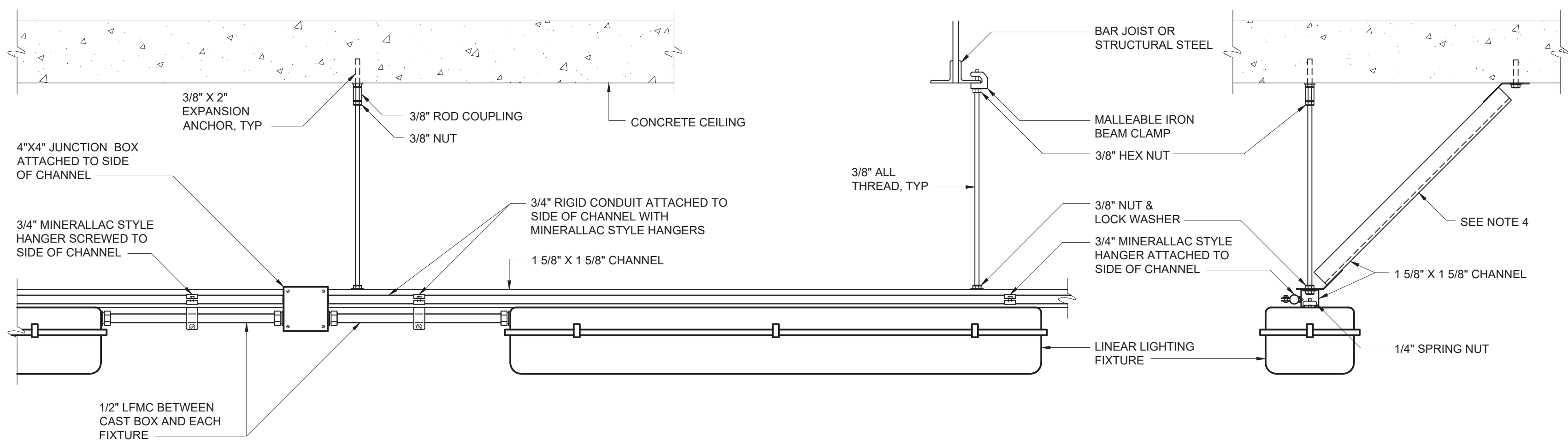
INDIVIDUAL PENDANT MOUNTED LINEAR FIXTURE
E-26-0605



NOTES:

1. FOR SIDE ENTRY, CONDUIT DUCTBANK SHALL ENTER PULLBOX AT LOWEST POINT.
2. GROUND CONDUCTORS WITHIN DUCTBANK SHALL BE BOLTED TOGETHER AND TO GROUND ROD.
3. CONDUIT BONDING BUSHINGS (IF REQUIRED) SHALL BE BONDED TO GROUND ROD.
4. FOR SIDE ENTRY, CONDUIT SHALL ENTER IN INDIVIDUAL CIRCULAR HOLES APPROPRIATELY SIZED FOR THE CONDUIT. LARGE SINGLE RECTANGULAR OPENINGS FOR MULTIPLE CONDUITS ARE NOT ACCEPTABLE
5. DUCTBANK REINFORCING REBAR SHALL PENETRATE THE SIDEWALLS OF THE BOX NO LONGER THAN 1".

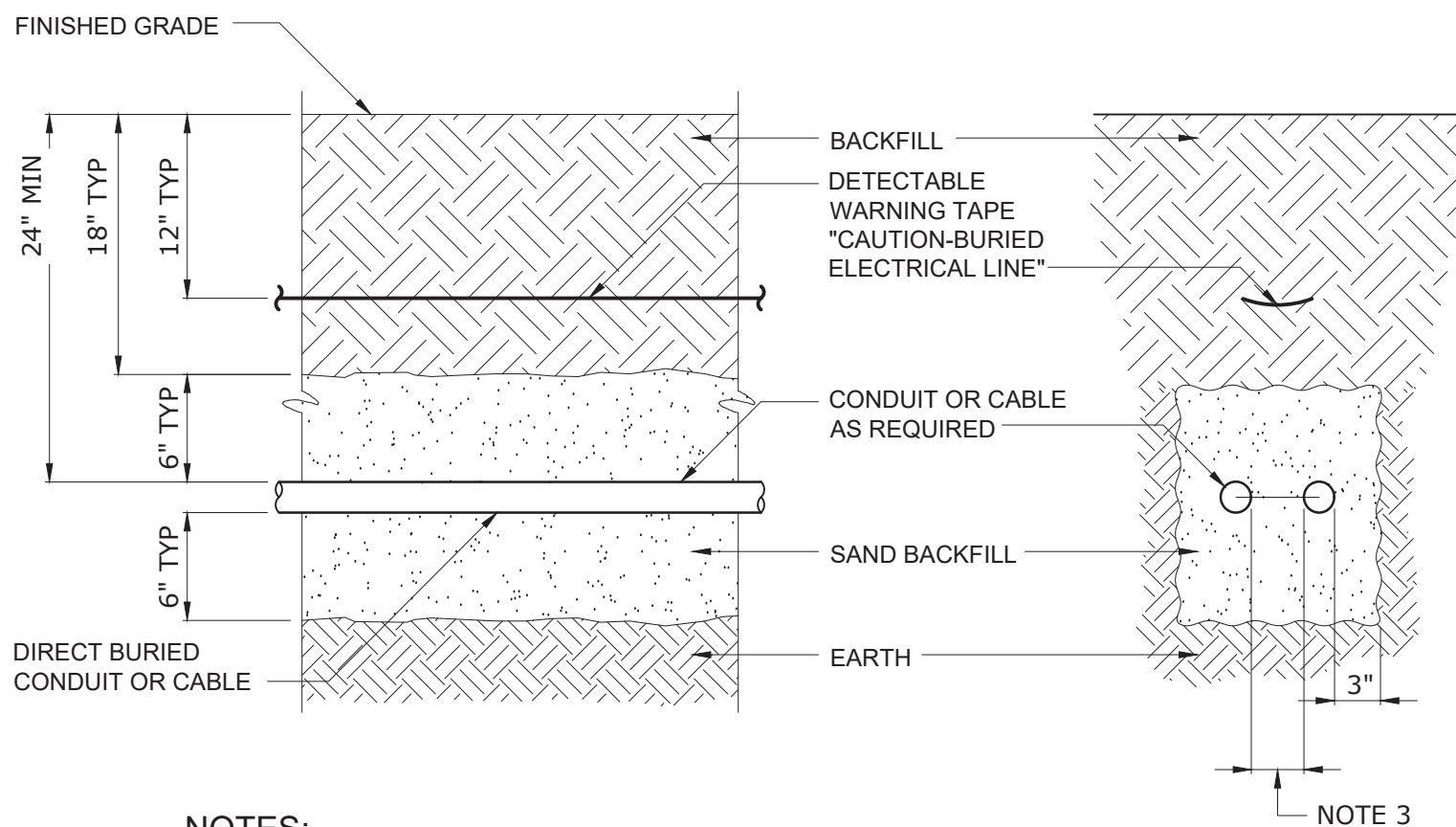
POLYMER CONCRETE ELECTRICAL HANDHOLE
E-33-0103



NOTES:

1. ADDITIONAL SEISMIC SUPPORTS MAY BE REQUIRED, SEE CODE SUMMARY DRAWING AND DRAWING E1 FOR SEISMIC CLASSIFICATIONS.
2. CONDUIT TYPE AND MATERIALS OF CONSTRUCTION FOR SUPPORTS AND HARDWARE SHALL BE AS REQUIRED FOR THE AREA IN WHICH THE FIXTURE IS INSTALLED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
3. REFER TO AREA DESIGNATION DRAWINGS AND SPECIFICATIONS FOR REQUIRED MATERIALS OF CONSTRUCTION.
4. 45 DEGREE ANGLE BRACES SHALL BE INSTALLED TO PREVENT LATERAL MOVEMENT OF FIXTURE SUPPORTS. BRACES SHALL BE INSTALLED AT 8' INTERVALS ALONG ENTIRE LENGTH OF SUPPORT CHANNEL. TRANSVERSE MOVEMENT SHALL BE PREVENTED IN SIMILAR FASHION AT EACH END OF THE SUPPORT CHANNEL.

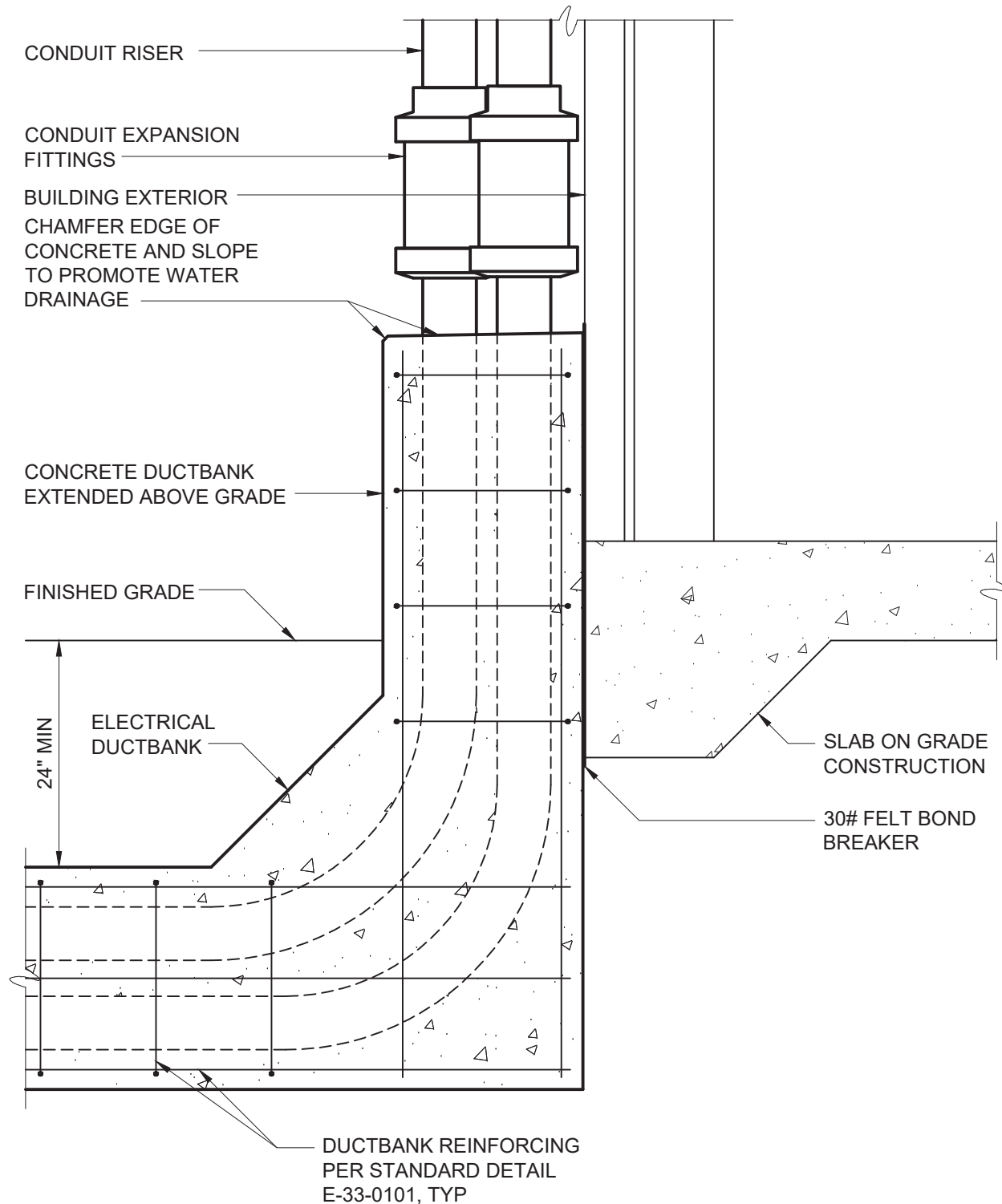
SUPPORT CHANNEL MOUNTED LINEAR FIXTURES
E-26-0606



NOTES:

1. CONDUIT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 33.13.
2. BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE USED.
3. MAINTAIN A MINIMUM OF 2" BETWEEN POWER, CONTROL, AND INSTRUMENTATION CONDUITS OR CONDUCTORS.

TYPICAL DIRECT BURIED CONDUIT & CABLE
E-33-0104



DUCTBANK ABUTMENT (FLOATING) TO STRUCTURE
E-33-0108

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REV	ISSUED FOR	DATE	BY		

BID SET



Hazen
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NEW YORK, NEW YORK 10018

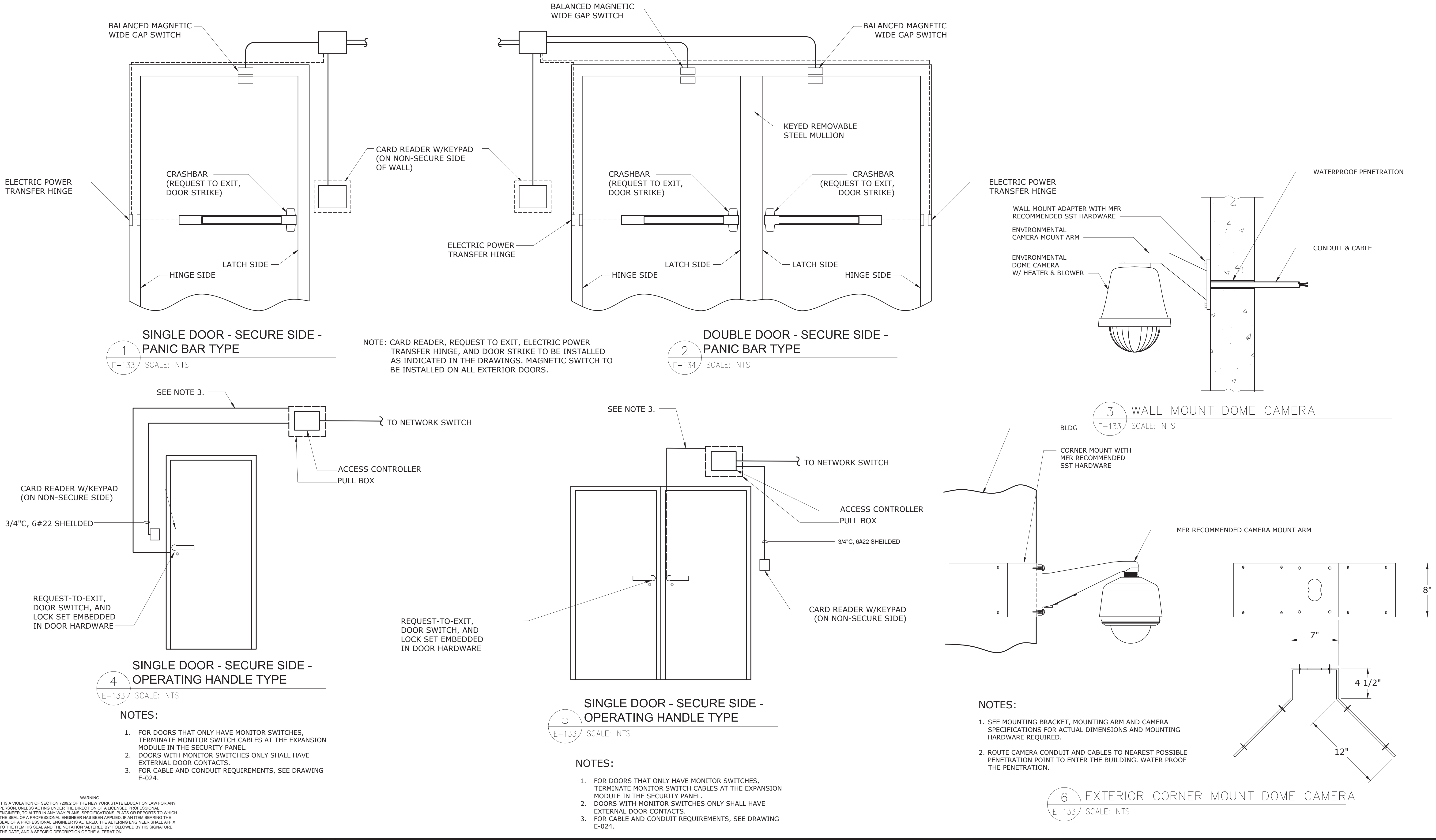
WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
STANDARD DETAILS - SHEET 3

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-604

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WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

ELECTRICAL
STANDARD DETAILS - SHEET 4

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	E-605