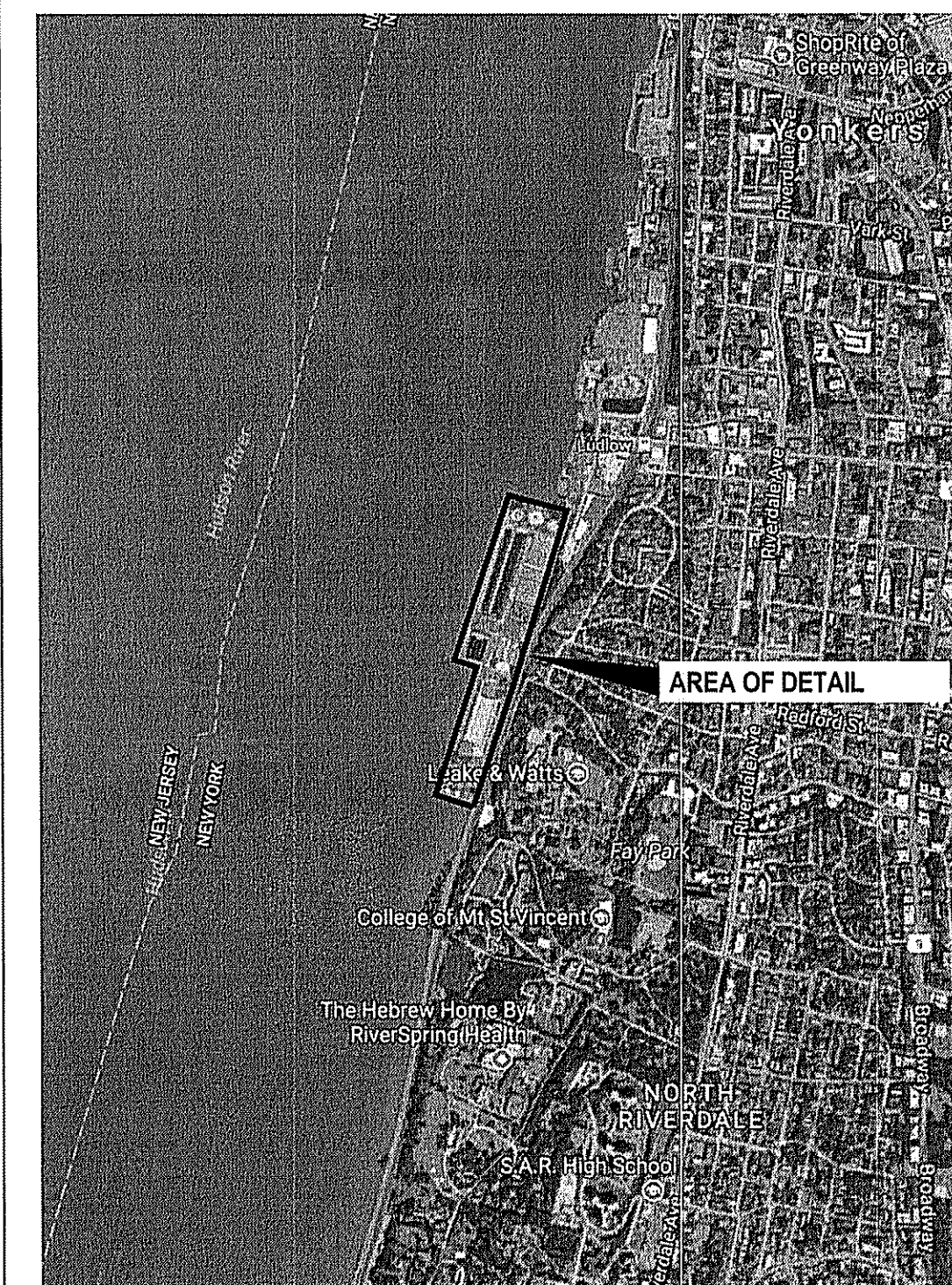




CONTRACT No. 16-512
SECONDARY SYSTEM REHABILITATION
YONKERS JOINT WASTEWATER TREATMENT PLANT
YONKERS, NEW YORK



LOCATION MAP

SCALE: N.T.S.

© GOOGLE MAP IMAGERY 2017

GENERAL DRAWINGS:

<u>SHEET NO.</u>	<u>SHEET TITLE</u>	<u>DPW FILE NO.</u>	<u>SHEET</u>
G0.0	TITLE SHEET	200-00-T-1038-0	1
C1.0	SITE PLAN	200-00-G-1039-0	2

STRUCTURAL DRAWINGS:

\$1.0	AERATION HEADER PARTIAL PLAN	200-00-S-1040-0	3
\$1.1	AERATION HEADER REPAIR SECTIONS	200-00-S-1041-0	4
\$1.2	STRUCTURAL NOTES AND DETAILS	200-00-S-1042-0	5
\$2.0	CONCRETE SUPPORT PAD PLANS AND DETAILS	200-00-S-1043-0	6

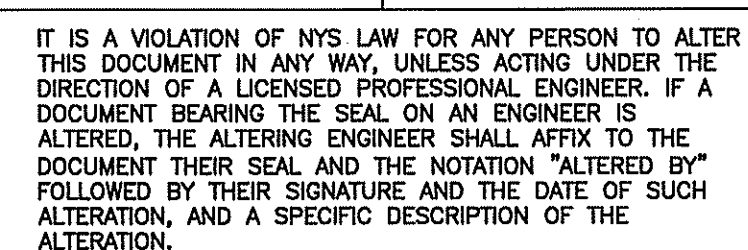
MECHANICAL DRAWINGS:






M0.0	MECHANICAL LEGEND, SYMBOLS, ETC.	200-00-M-1044-0	7
M1.0	AERATION HEADER COATING PLAN	200-00-M-1045-0	8
M1.1	AERATION HEADER PARTIAL PLANS	200-00-M-1046-0	9
M1.2	AERATION HEADER COATING SECTIONS	200-00-M-1047-0	10
M2.0	THICKENER BUILDING REMOVALS PLAN AND SECTIONS	200-00-M-1048-0	11
M2.1	THICKENER BUILDING NEW CONSTRUCTION PLAN AND SECTIONS	200-00-M-1049-0	12
M2.2	PLANT WATER SYSTEM MECHANICAL DETAILS AND SECTIONS	200-00-M-1050-0	13
M3.0	BLOWER AND ADMINISTRATION BUILDING REMOVALS PLAN	200-00-M-1051-0	14
M3.1	BLOWER AND ADMINISTRATION BUILDING REMOVALS SECTIONS	200-00-M-1052-0	15
M3.2	BLOWER AND ADMINISTRATION BUILDING NEW CONSTRUCTION	200-00-M-1053-0	16
M3.3	BLOWER AND ADMINISTRATION BUILDING NEW CONSTRUCTION SECTIONS AND DETAILS	200-00-M-1054-0	17
M3.4	BLOWER AND ADMINISTRATION BUILDING NEW CONSTRUCTION PARTIAL PLANS	200-00-M-1055-0	18
M3.5	PLANT WATER SYSTEM MECHANICAL DETAILS AND SECTIONS	200-00-M-1056-0	19
M3.6	BLOWER AND ADMINISTRATION BUILDING AT ELEVATION -6.00' AND +6.50'	200-00-M-1057-0	20
M3.7	OPERATING GALLERY SECTIONAL PLAN AT ELEVATION +5.00'	200-00-M-1058-0	21

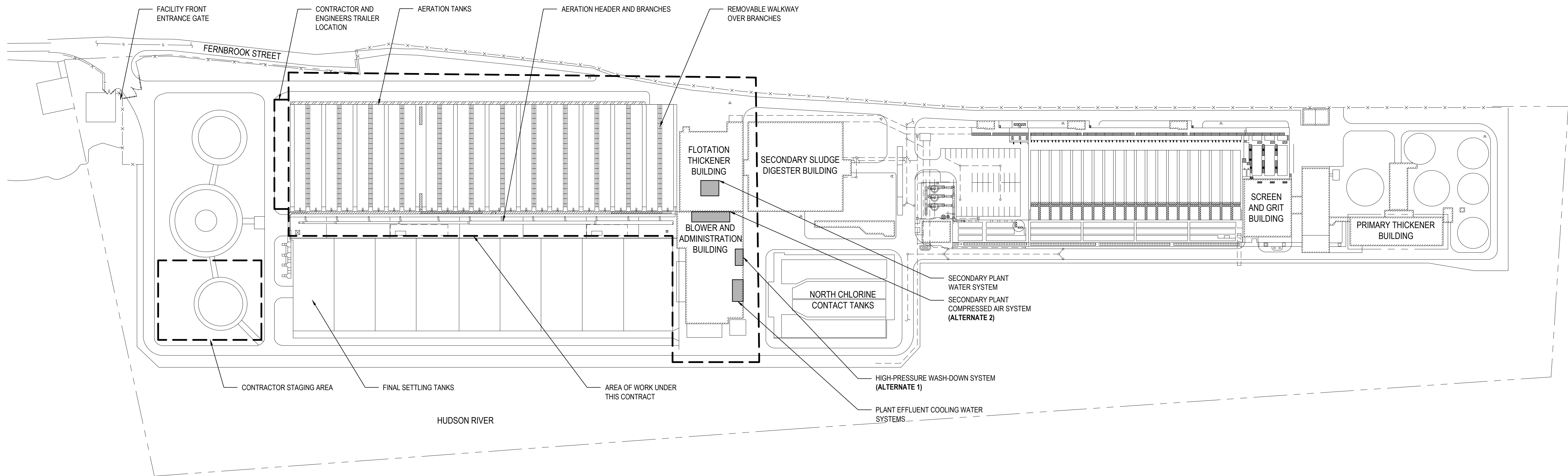
ELECTRICAL DRAWINGS:

E0.0	ELECTRICAL LEGENDS, SYMBOLS, ETC.	200-00-E-1059-0	2
E2.0	THICKENER BUILDING ELECTRICAL DEMOLITION PLAN	200-00-E-1060-0	2
E2.1	THICKENER BUILDING ELECTRICAL POWER PLAN	200-00-E-1061-0	2
E3.0	BLOWER AND ADMINISTRATION BUILDING ELECTRICAL DEMOLITION PLAN	200-00-E-1062-0	2
E3.4	BLOWER AND ADMINISTRATION BUILDING ELECTRICAL POWER PLAN	200-00-E-1063-0	2
E3.5	BLOWER AND ADMINISTRATION BUILDING POWER AND CONTROLS DIAGRAM	200-00-E-1064-0	2
E3.6	BLOWER AND ADMINISTRATION BUILDING STARTER DIAGRAMS AND DETAILS	200-00-E-1065-0	2

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CHECKED BY SCH
MADE BY TMN



 RECOMMENDED FOR DESIGN DATE: 3/14/22		 RECOMMENDED FOR CONSTRUCTION DATE: 8.22.22		 RECOMMENDED FOR CONSTRUCTION DATE: 8.19.2022		 APPROVED FOR CONSTRUCTION DATE: 3/14/22		 APPROVED FOR CONSTRUCTION DATE: 3/14/22		<div> <div> WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING </div> <div> CONTRACT NUMBER 16-512 SHEET NUMBER G0.0 </div> </div>	
JOSEPH GIBNEY, P.E. DIRECTOR OF WASTEWATER TREATMENT DEPARTMENT OF ENVIRONMENTAL FACILITIES		LEAH RADKO, P.E. DIRECTOR OF DESIGN COORDINATION DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		GAYLE M. KATZMAN, P.E. FIRST DEPUTY COMMISSIONER DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		VINCENT F. KOPICKI, P.E. COMMISSIONER DEPARTMENT OF ENVIRONMENTAL FACILITIES		HUGH J. GREECHAN, JR., P.E. COMMISSIONER DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		<div> SECONDARY SYSTEM REHABILITATION JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK TITLE SHEET </div> <div> SHEET NO. 1 OF 28 SCALE: N.T.S. DATE: MARCH 2022 DPW FILE NO. 200-00-T-1038-0 </div>	



Site Plan
SCALE: 1"=100'

IN CHARGE OF JTP
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MADE BY TMN



H2M

architects
+
engineers

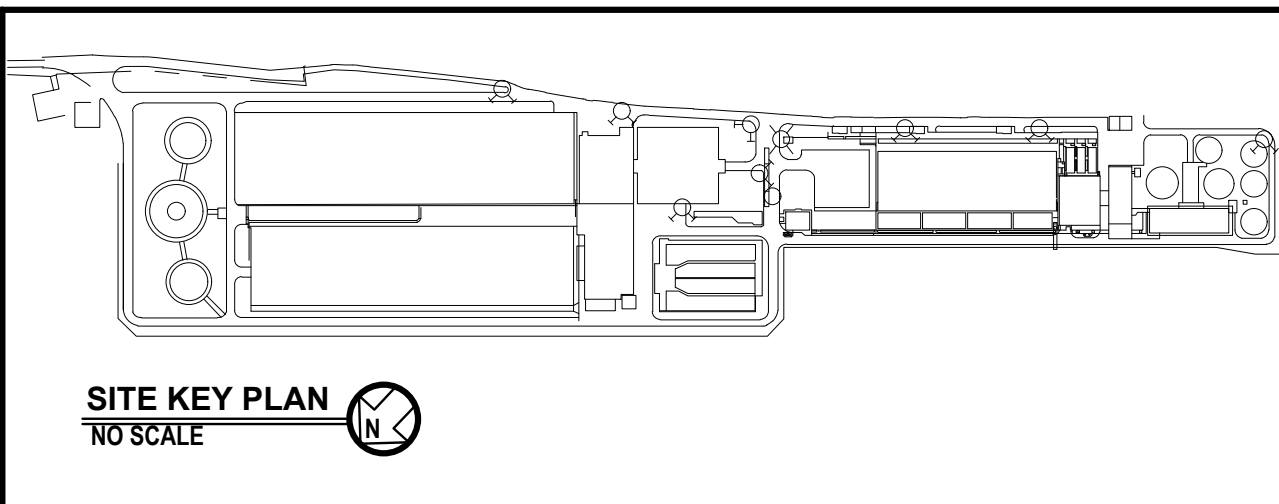
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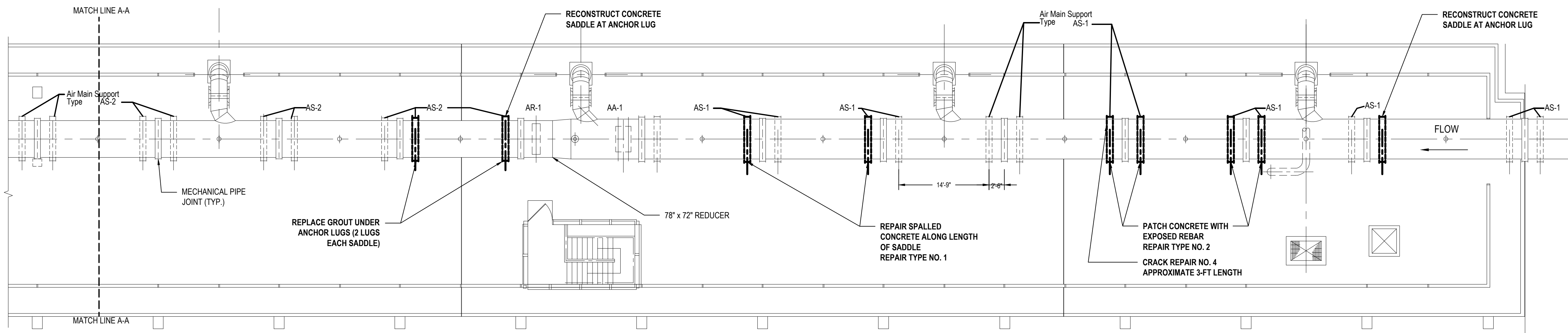
LYNSTAAR

ENGINEERING, P.C.

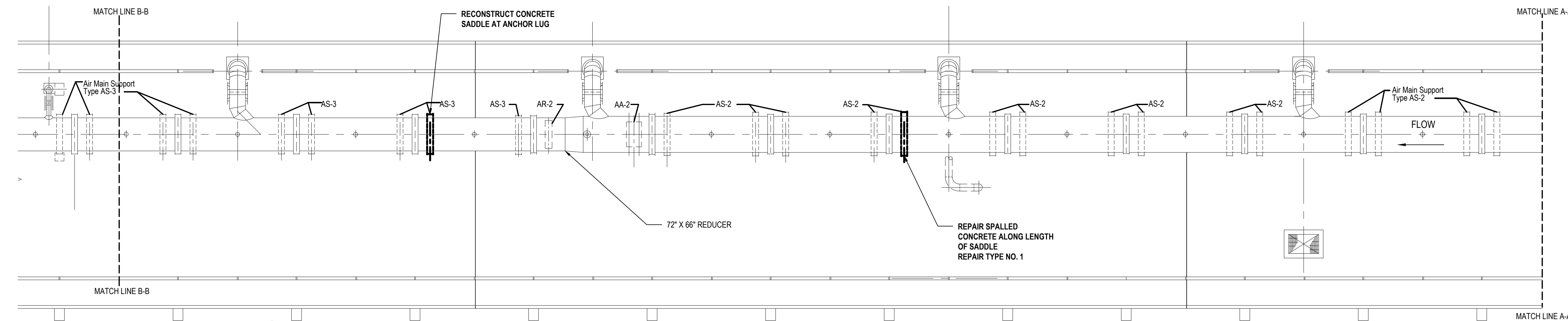
CIVIL - PLUMBING - ELECTRICAL - MECHANICAL
448-450 Mainville Road - Pleasantville, New York 10570
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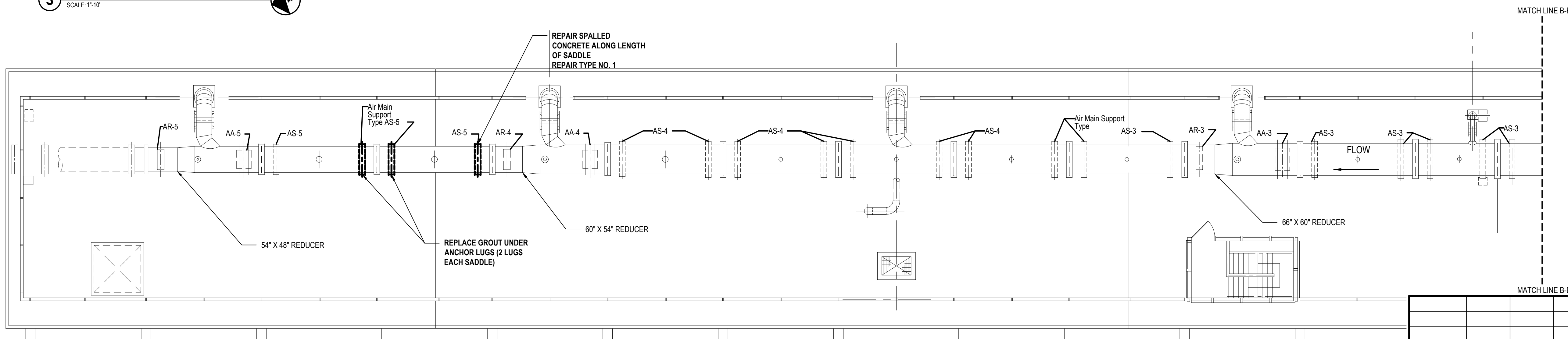
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CONTRACTOR			PROJECT COORDINATOR	
NAME SIGNATURE TITLE			NAME SIGNATURE TITLE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK SITE PLAN			CONTRACT NUMBER 16-512 SHEET NO. 2 OF 28	SHEET NUMBER C1.0 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-G-1039-0



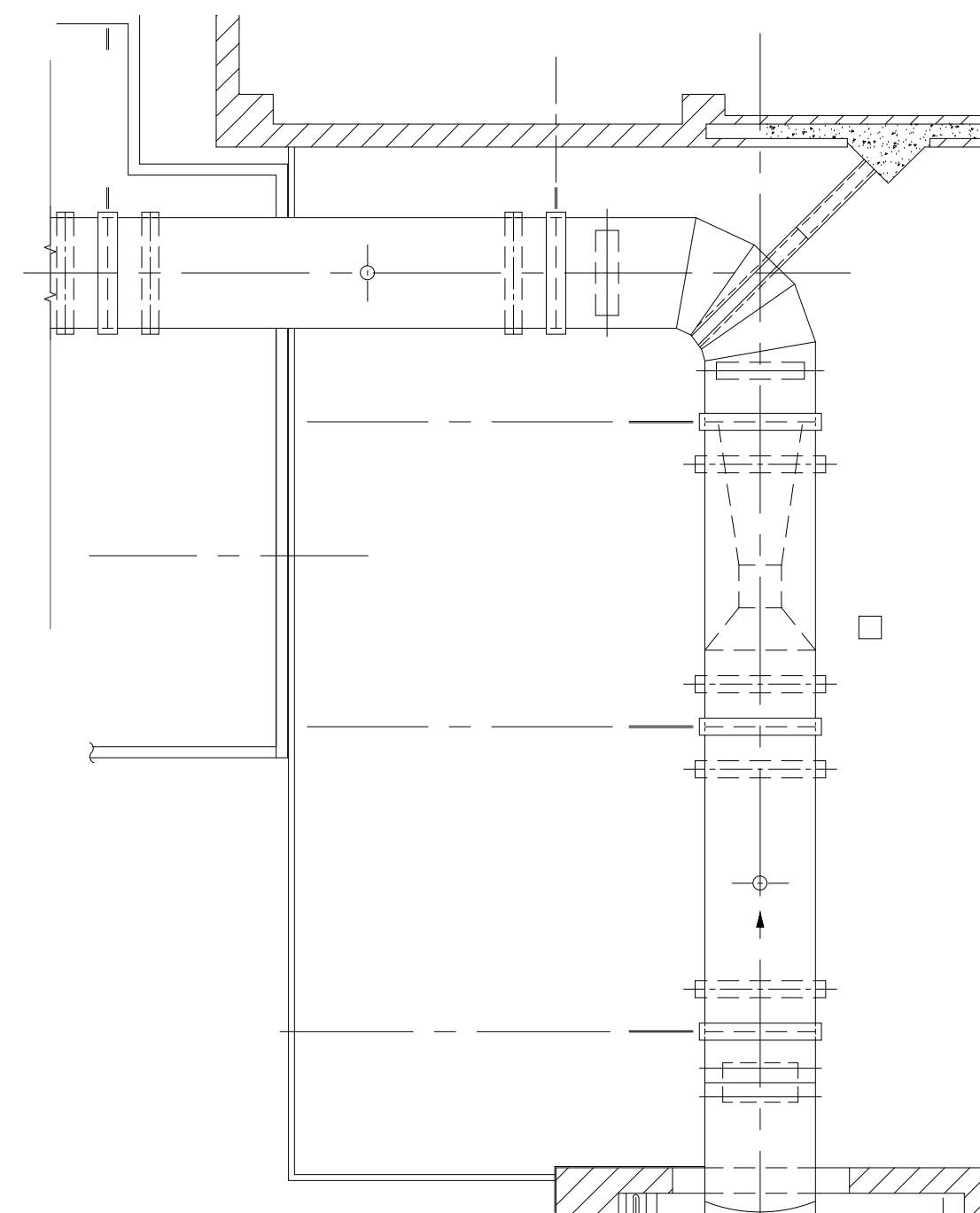
2 Aeration Header Partial Plan 2
SCALE: 1"=10'



3 Aeration Header Partial Plan 3
SCALE: 1"=10'

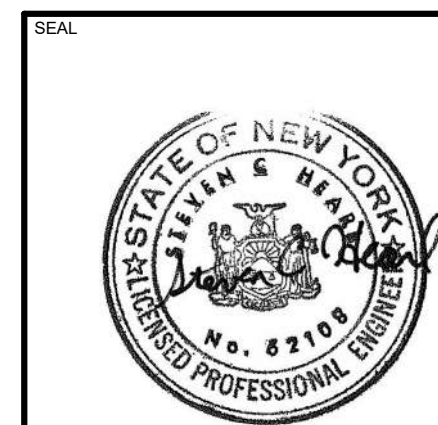


4 Aeration Header Partial Plan 4
SCALE: 1"=10'



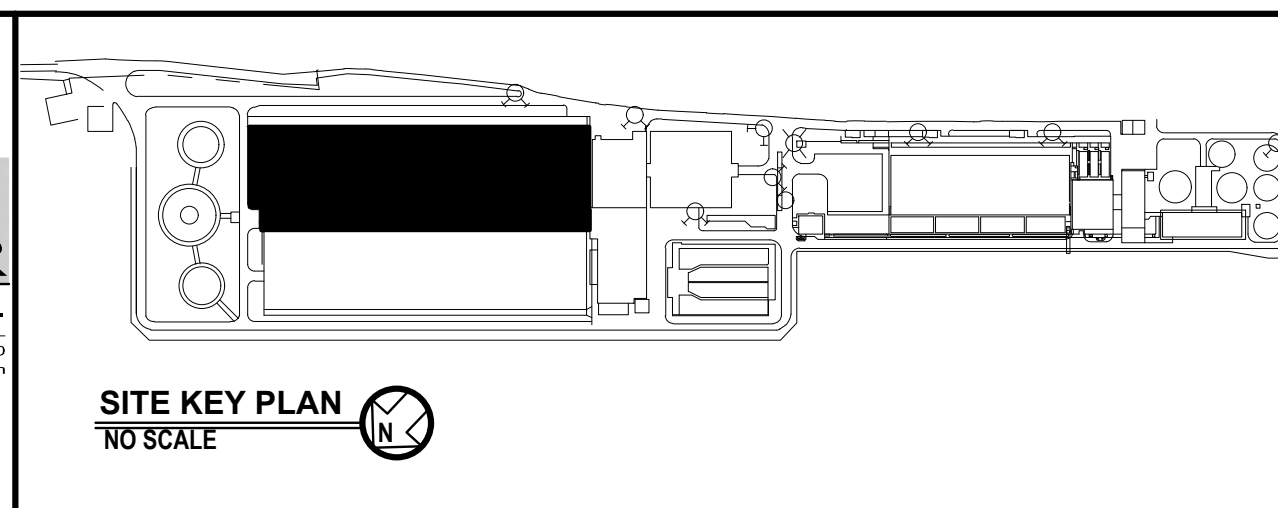
1 Aeration Header Partial Plan 1
SCALE: 1"=10'

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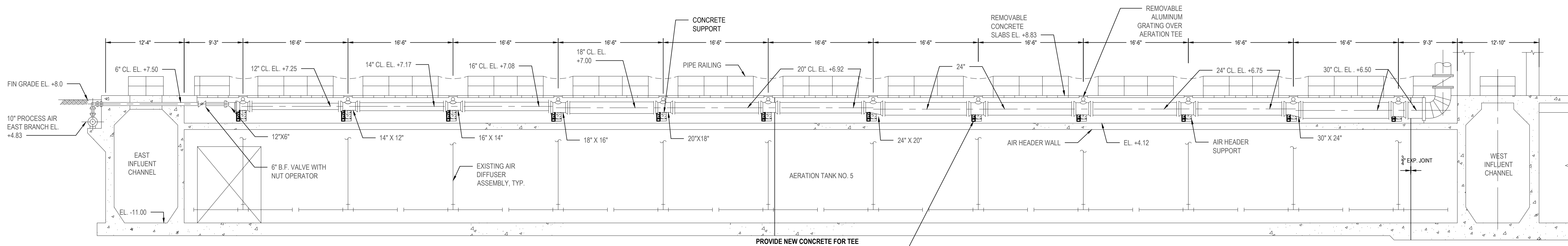


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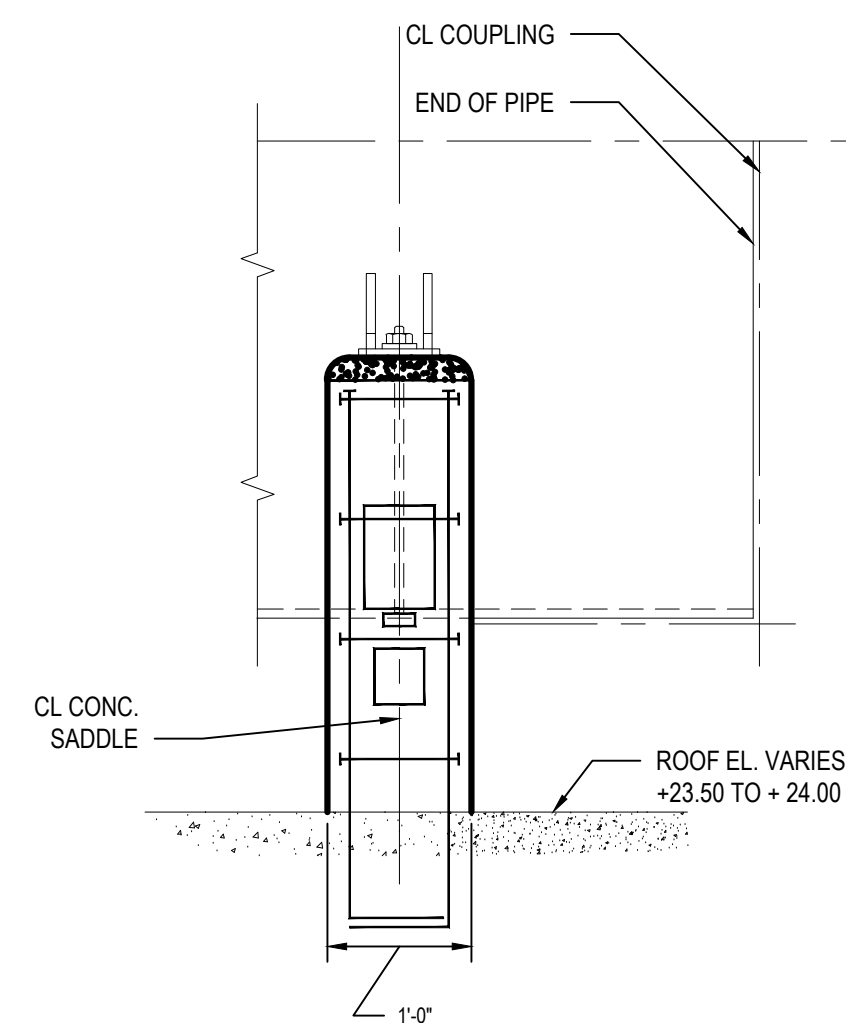


REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
CONTRACTOR				PROJECT COORDINATOR
NAME SIGNATURE TITLE				NAME SIGNATURE TITLE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK				CONTRACT NUMBER 16-512 SHEET NO. 3 OF 28 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-S-1040-0
AERATION HEADER PARTIAL PLANS				REV. NO.

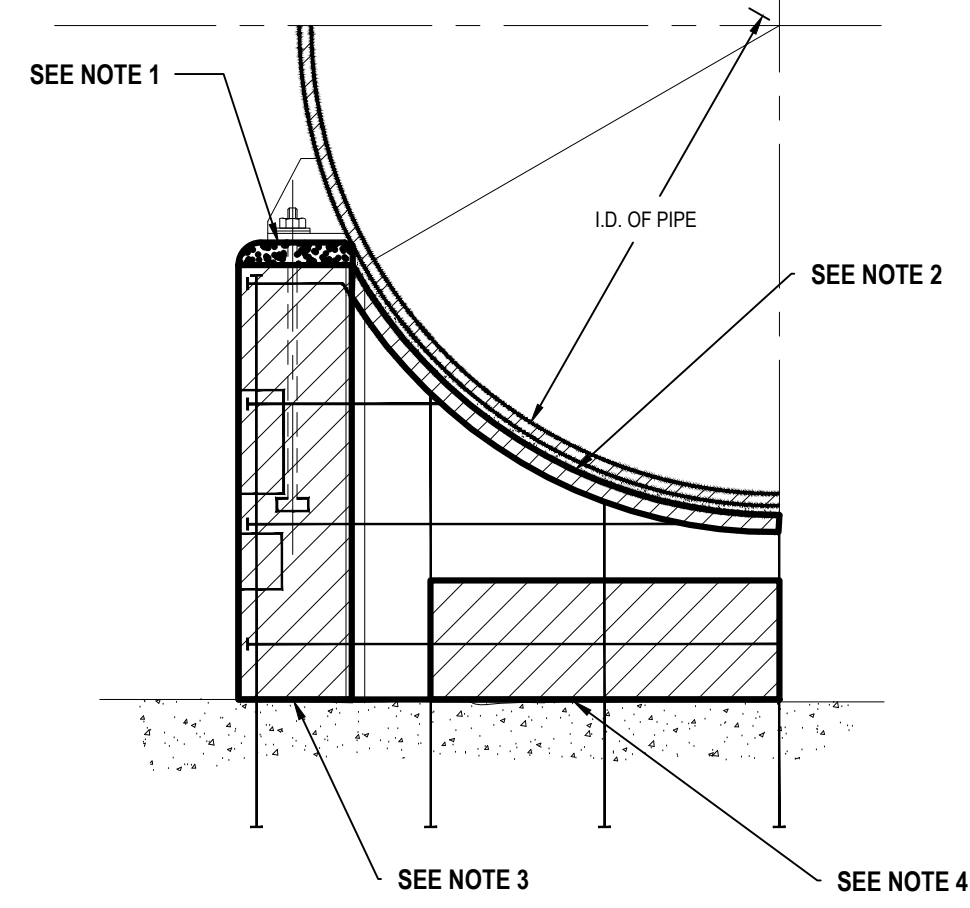
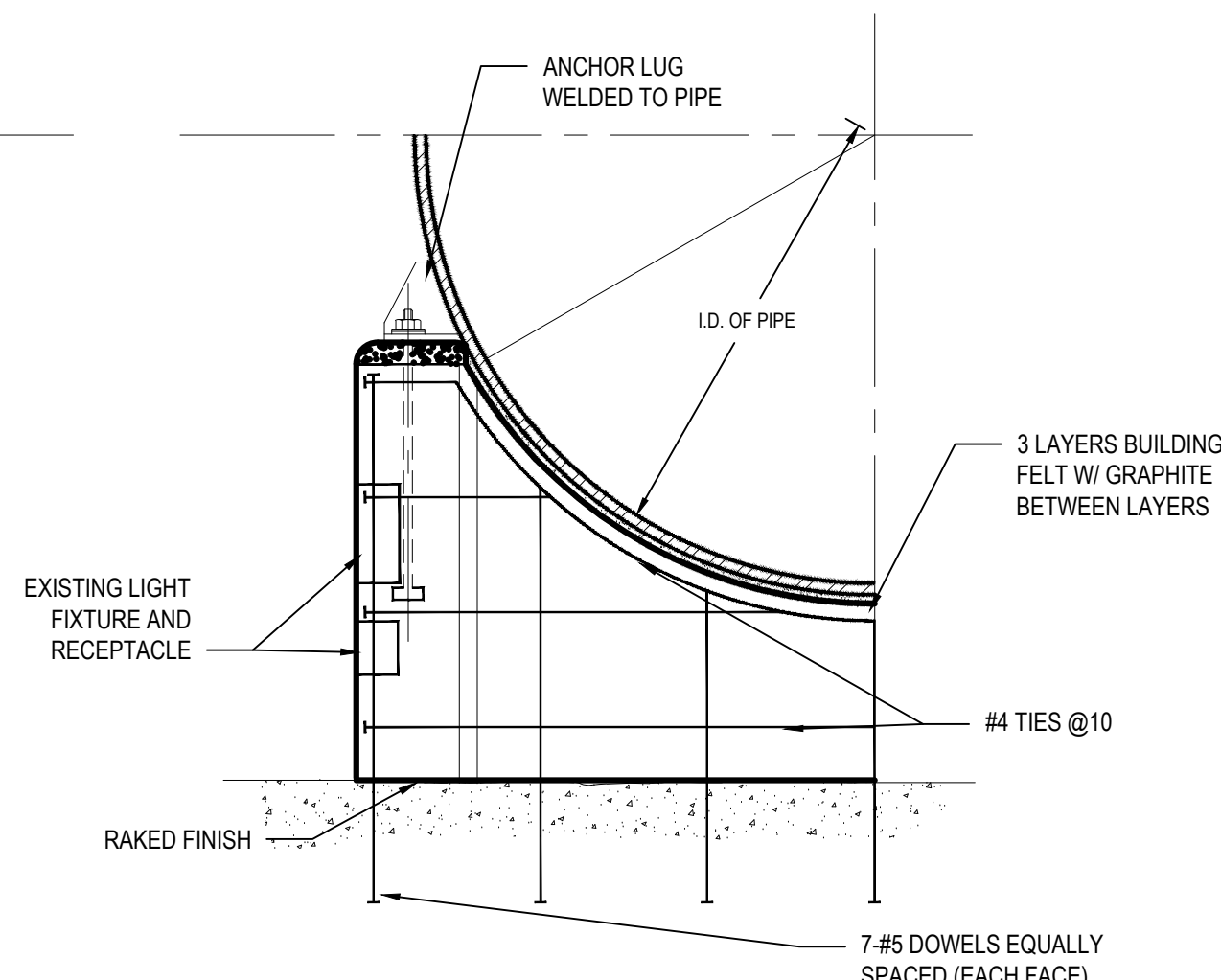


1 Aeration Tank Section (Typical for 12)
SCALE: 1/8"=1'-0"

PROVIDE NEW CONCRETE FOR TEE SUPPORTS (TYP. x144)
COORDINATE WITH ENGINEER/OWNER
FOR EVALUATION OF EACH BRANCH
PRIOR TO REPAIRS. UNUSED UNIT
PRICE QUANTITIES WILL BE CREDITED
TO THE OWNER



2 Air Main Support Type AS
SCALE: 3/4"=1'-0"

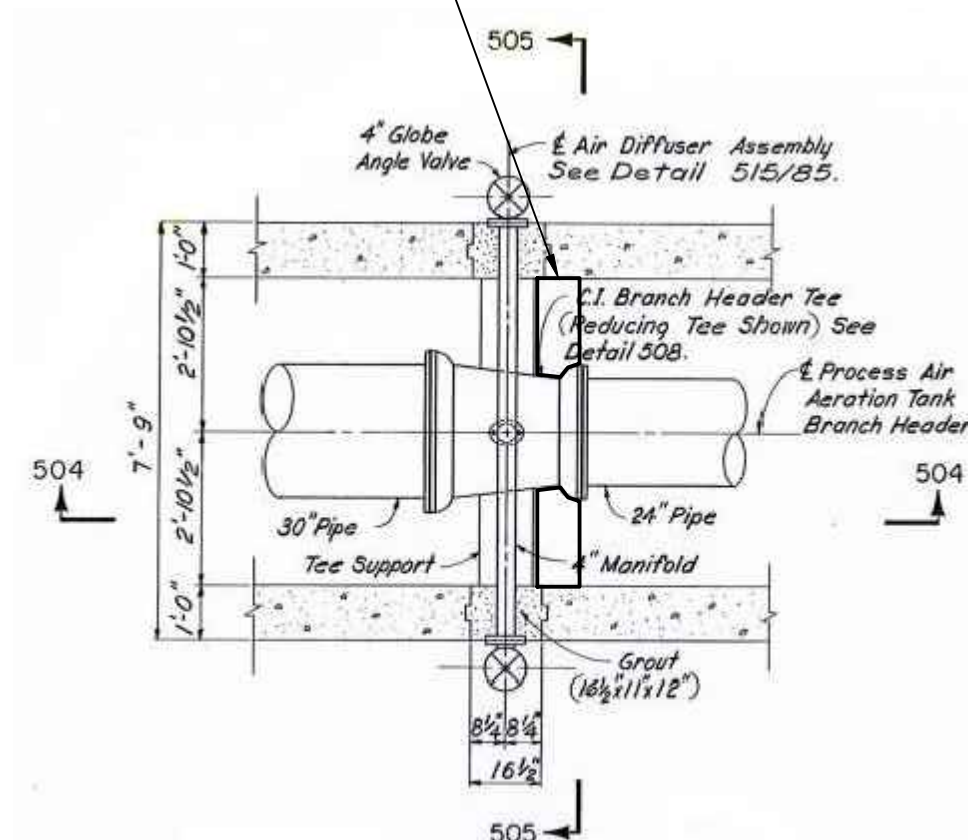


3 Air Main Support Type AS Repairs
SCALE: 3/4"=1'-0"

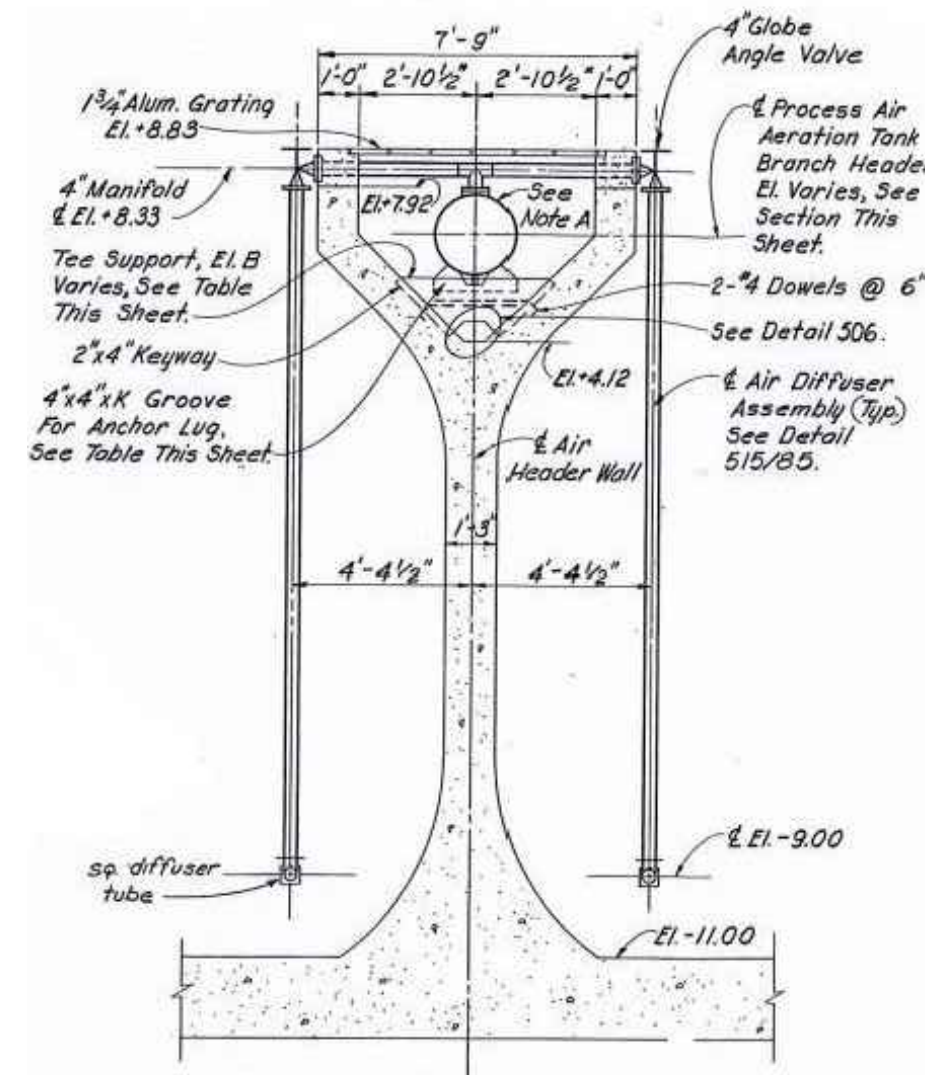
NOTES:

- REPAIR NON-SHRINK GROUT UNDER ANCHOR LUGS WHERE SHOWN.
- REPAIR SPALLED CONCRETE ALONG LENGTH OF SADDLE WHERE SHOWN. FOLLOW REPAIR TYPE NO. 1 SHOWN ON SHEET S1.2
- RECONSTRUCT BROKEN CONCRETE SADDLE AT ANCHOR LUG. PROVIDE SADDLE WITH REINFORCED FORMS AND RECONSTRUCT WITH AN APPROVED CONCRETE REPAIR PRODUCT WITH BONDING AGENTS AS REQUIRED ON SHEET S1.2. SUBMIT PRODUCTS AND PROCEDURE TO ENGINEER FOR APPROVAL.
- REPAIR SPALLED CONCRETE WITH EXPOSED RE-BAR USING REPAIR NO. 2 AS DETAILED ON SHEET S1.2.

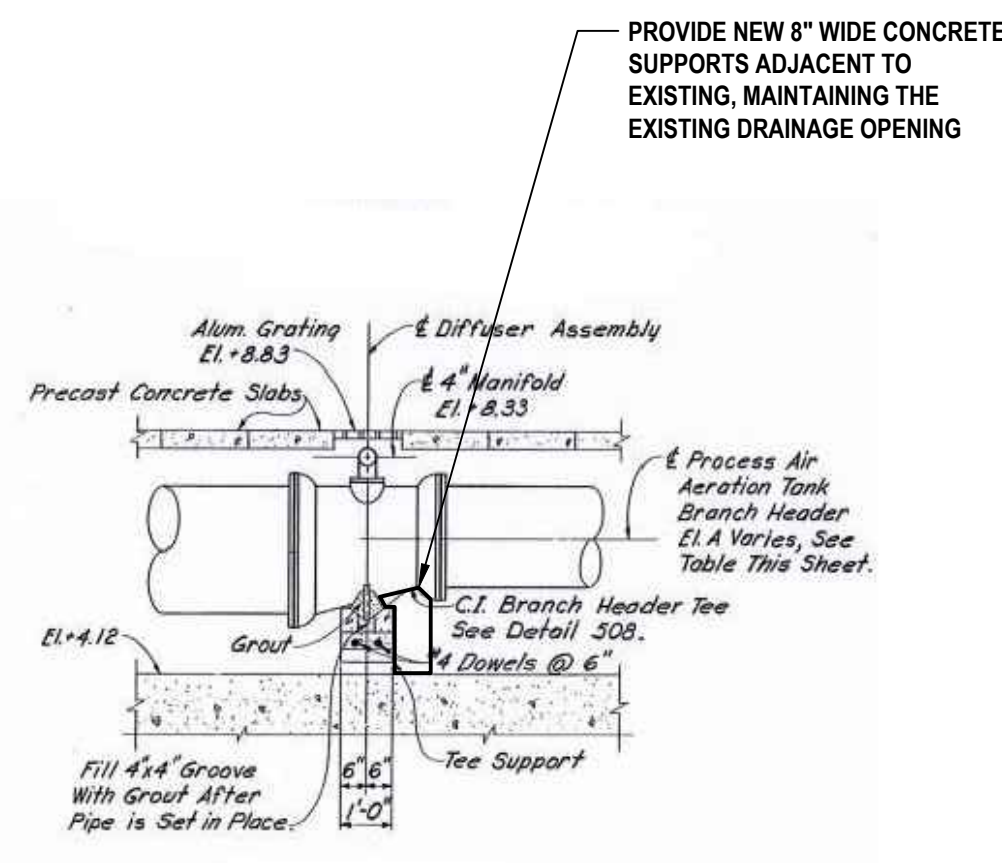
PROVIDE NEW 8" WIDE CONCRETE SUPPORTS ADJACENT TO EXISTING, MAINTAINING THE EXISTING DRAINAGE OPENING



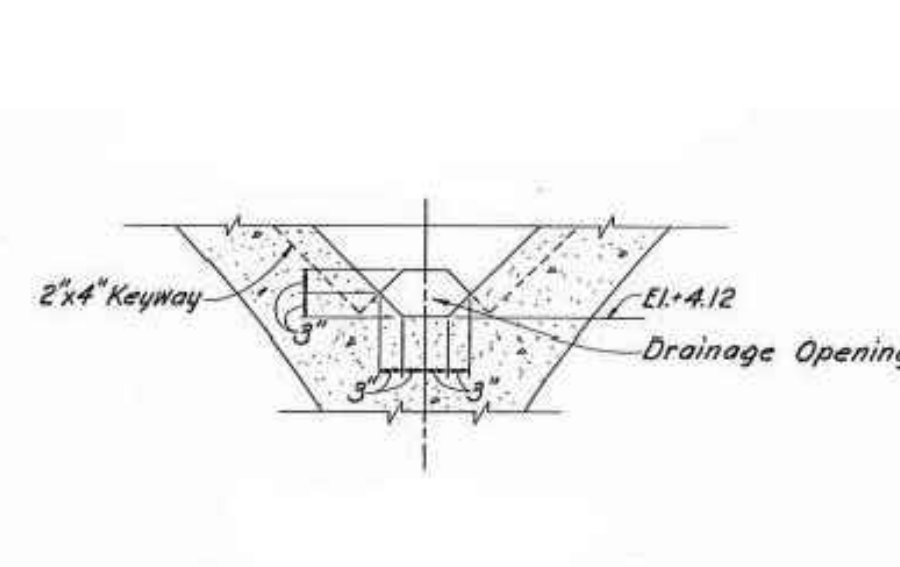
4 Plan-Air Diffuser Assembly
SCALE: NTS



5 Section 505
SCALE: NTS



6 Section 504
SCALE: NTS

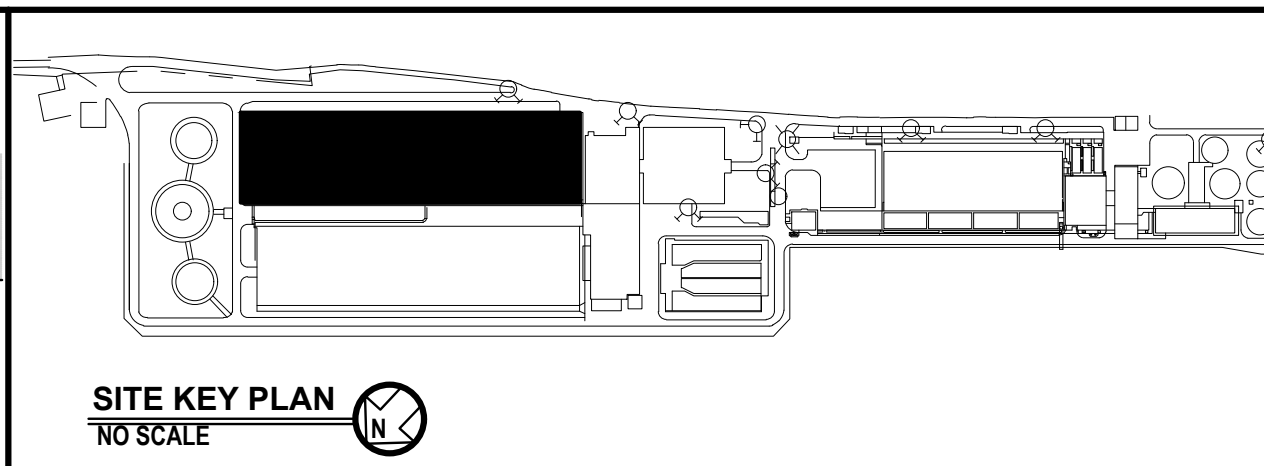
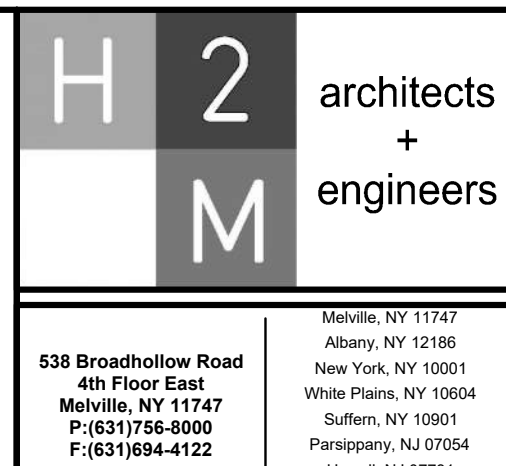
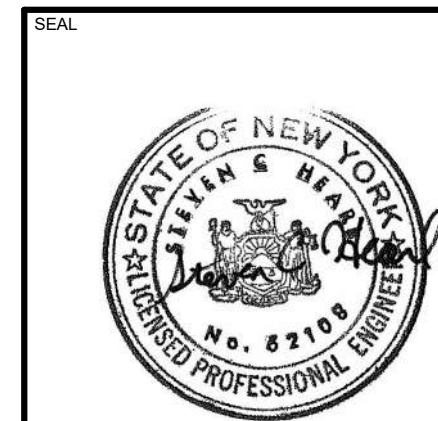


7 Detail 506
SCALE: NTS

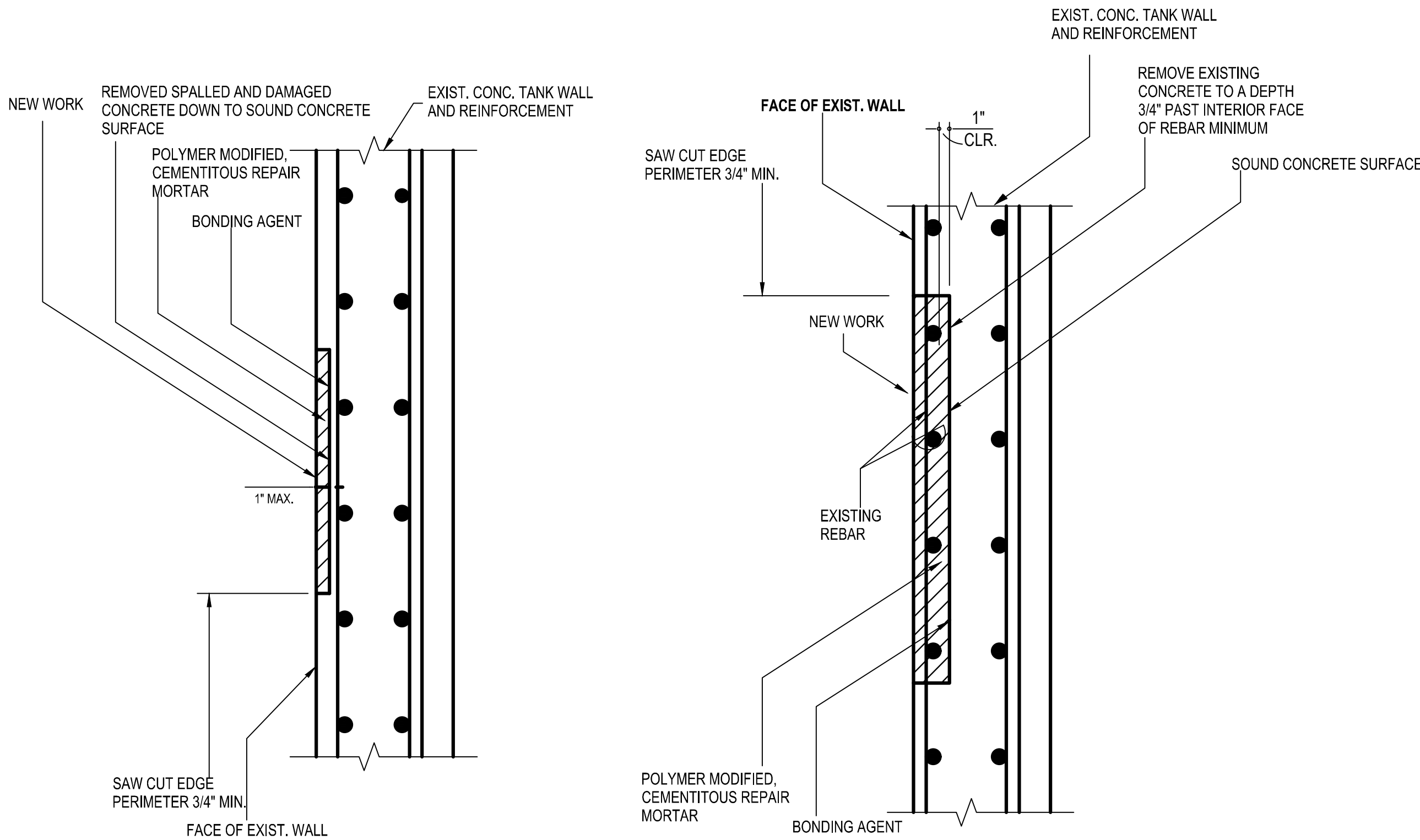
NOTES:

- INFORMATION REGARDING THE EXISTING SUPPORTS OBTAINED FROM RECORD DRAWING G3-84, PROJECT NO. S227-69-51D DATED AUGUST, 1972.

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
AS BUILT - CHANGES AS NOTED		AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
WESTCHESTER COUNTY, NEW YORK		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		
DIVISION OF ENGINEERING		SECONDARY SYSTEM REHABILITATION		
YONKERS JOINT WASTEWATER TREATMENT PLANT		YONKERS, NEW YORK		
AERATION HEADER REPAIR SECTIONS		CONTRACT NUMBER 16-512 SHEET NUMBER S1.1		
SHEET NO. 4 OF 28		SCALE: AS SHOWN DATE: MARCH 2022		
DPW FILE NO. 200-00-S-1041-0		REV. NO.		



GENERAL NOTES:

1. VERIFY ALL DIMENSIONS BY MEASUREMENTS AT THE JOB SITE AND TAKE MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM THE WORK PROPERLY. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED INCLUDING BUT NOT LIMITED TO FABRICATION OF MATERIALS. SUCH DISCREPANCIES BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS SHALL NOT BE THE REASONS FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK AND THE WORK SHALL BE PERFORMED AT NO EXTRA COST TO THE OWNER.
2. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF STRUCTURE AND WORKERS DURING THE ENTIRE CONSTRUCTION PERIOD, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO DESIGN AND INSTALLATION OF BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF SUPPORT WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED. ANY DAMAGE TO THE STRUCTURE IF OCCURRED SHALL BE RECTIFIED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. SCHEDULE THE WORK IN CONSULTATION WITH THE OWNER AND IN SUCH A WAY AS TO MINIMIZE THE CONFLICT OF THE OPERATION OF THE FACILITY. COMPLY WITH OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
3. IN CASE OF ANY DAMAGE TO THE CONSTRUCTION BY THE CONTRACTOR, REPAIR THE SAME TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
4. INFORM THE ENGINEER OF ANY DEMOLITION, ALTERATIONS REQUIRED OR INTERFERENCES NOT SHOWN ON THE DRAWINGS FOR RESOLUTION. THE CONTRACTOR SHALL ALLOW 7 WORKING DAYS FOR RESOLUTION OF THE CONDITION UNLESS ADDITIONAL TIME IS STATED TO BE REQUIRED BY THE ENGINEER.
5. TYPICAL DETAILS ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF CONFLICTS REGARDING APPLICABILITY OF TYPICAL DETAILS.

CONCRETE REINFORCING NOTES:

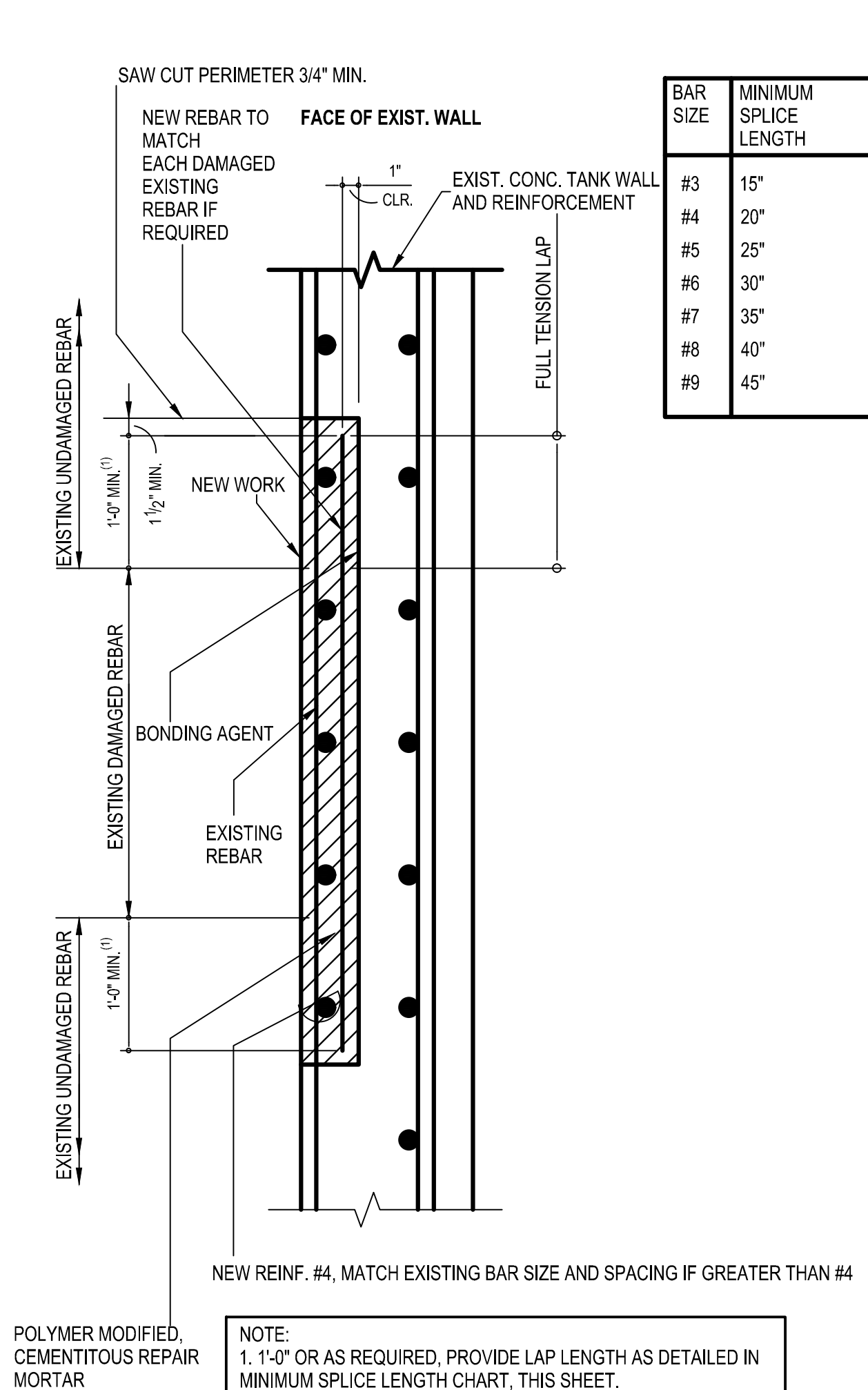
1. PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 315 AND ACI 318.
2. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDS AND ANCHOR RODS. SET ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBEDDED ITEMS TO FORMWORK OR REINFORCING.
3. MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL UNLESS NOTED OTHERWISE:
 - A. CONCRETE CAST AGAINST EARTH: 3 INCHES
 - B. CONCRETE EXPOSED TO WEATHER
 - NO. 6 AND LARGER: 2 INCHES
 - NO. 5 AND SMALLER: 1 1/2 INCHES
 - C. CONCRETE NOT EXPOSED TO WEATHER OR CONCRETE NOT IN CONTACT WITH THE GROUND:
 - SLABS AND WALLS
 - NO. 11 AND SMALLER: 1 INCH
4. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL ENGINEER.
5. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MAIN REINFORCING.
6. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT PROVIDE STANDARD 90- DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.
7. WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN ACCORDANCE WITH ASTM A 706 GRADE 60. USE LOW HYDROGEN ELECTRODES FOR WELDING OF REINFORCEMENT IN CONFORMANCE WITH "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL", AMERICAN WELDING SOCIETY, AWS D12.1. PROVIDE ASTM A615 GRADE 40 REINFORCING BARS WHERE DETAILED BARS ARE TO BE WELDED TO A STEEL SECTION.
8. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90- DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS.

1 Type 1 - Repair of Concrete - Rebar Not Exposed

SCALE: 1"=1'-0"

2 Type 2 - Repair of Concrete - Rebar Exposed - No Replacement of Rebar

SCALE: 1"=1'-0"

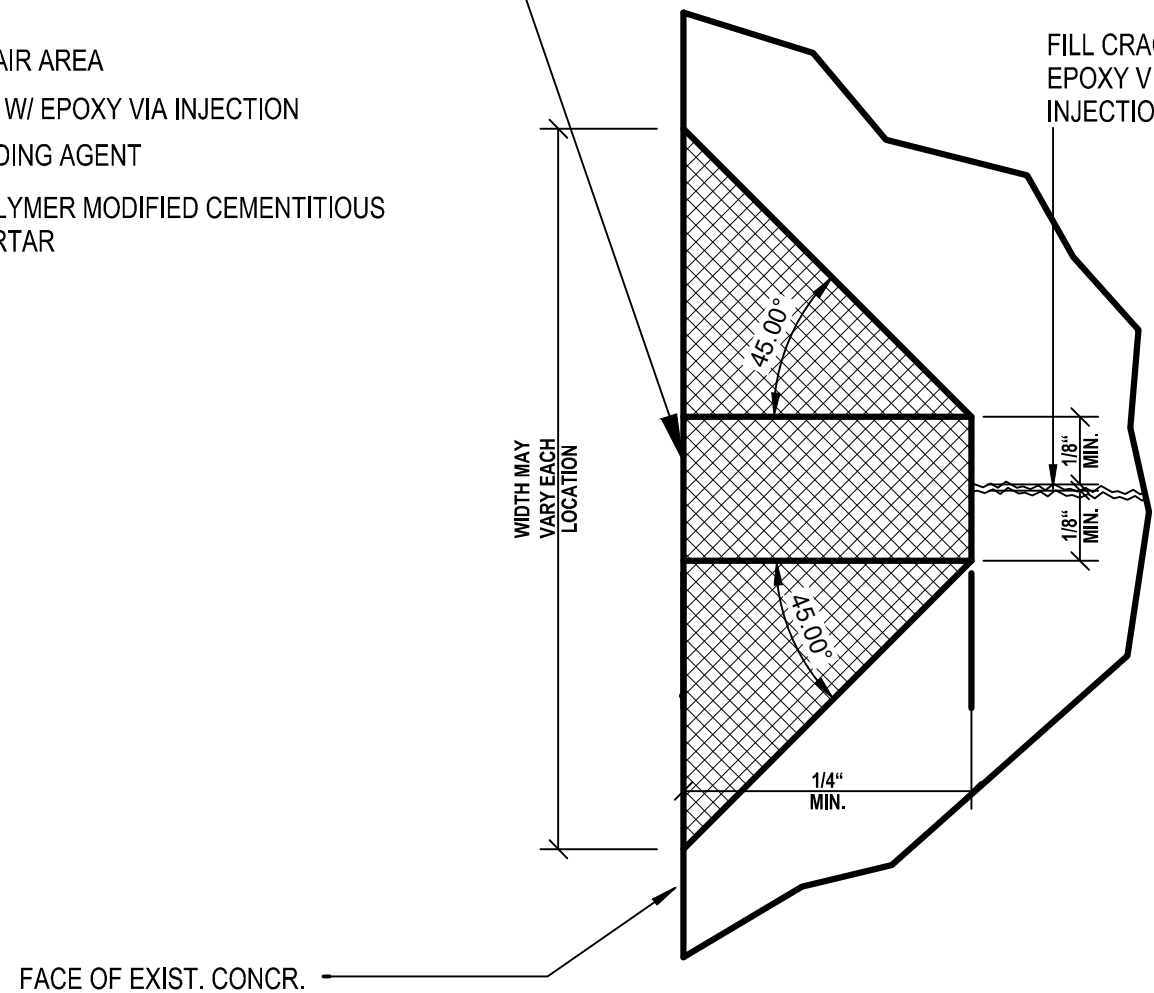


NOTES:

1. ALL POLYMER MODIFIED CONCRETE REPAIR WORK SHALL BE IN CONFORMANCE TO MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL HAVE MANUFACTURER'S REPRESENTATIVE ON SITE FOR SITE EVALUATION AND INSTALLATION OBSERVATION.
2. INSTALL EPOXY REPAIR PRODUCT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. CONTRACTOR SHALL HAVE MANUFACTURER'S REPRESENTATIVE ON SITE FOR EVALUATION, RECOMMENDATION AND INSTALLATION OBSERVATION.

CRACK REPAIR PROCEDURE :

- CLEAN REPAIR AREA
- FILL CRACK W/ EPOXY VIA INJECTION
- APPLY BONDING AGENT
- INSTALL POLYMER MODIFIED CEMENTITIOUS REPAIR MORTAR

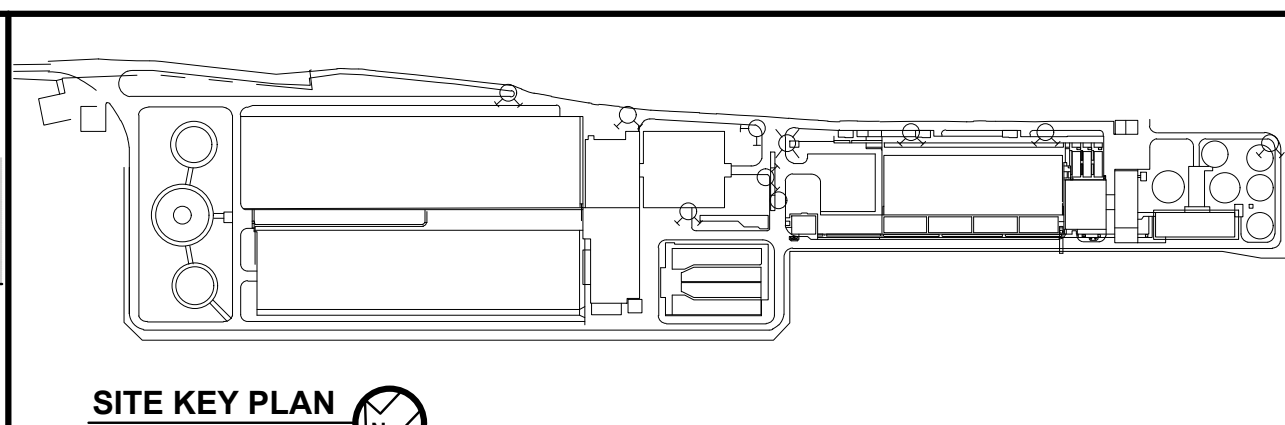
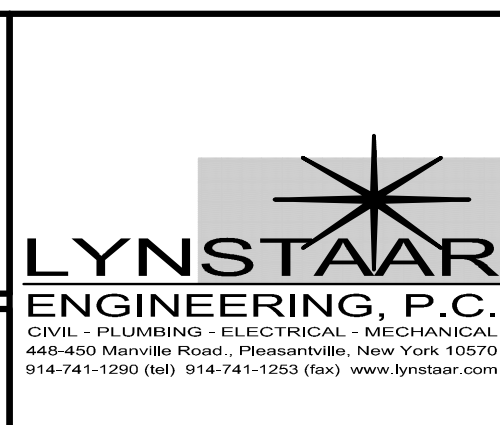


3 Type 3 - Repair of Concrete - Corroded Rebar

SCALE: 1"=1'-0"

4 Repair of Concrete Wall Cracks

SCALE: 1"=1'-0"

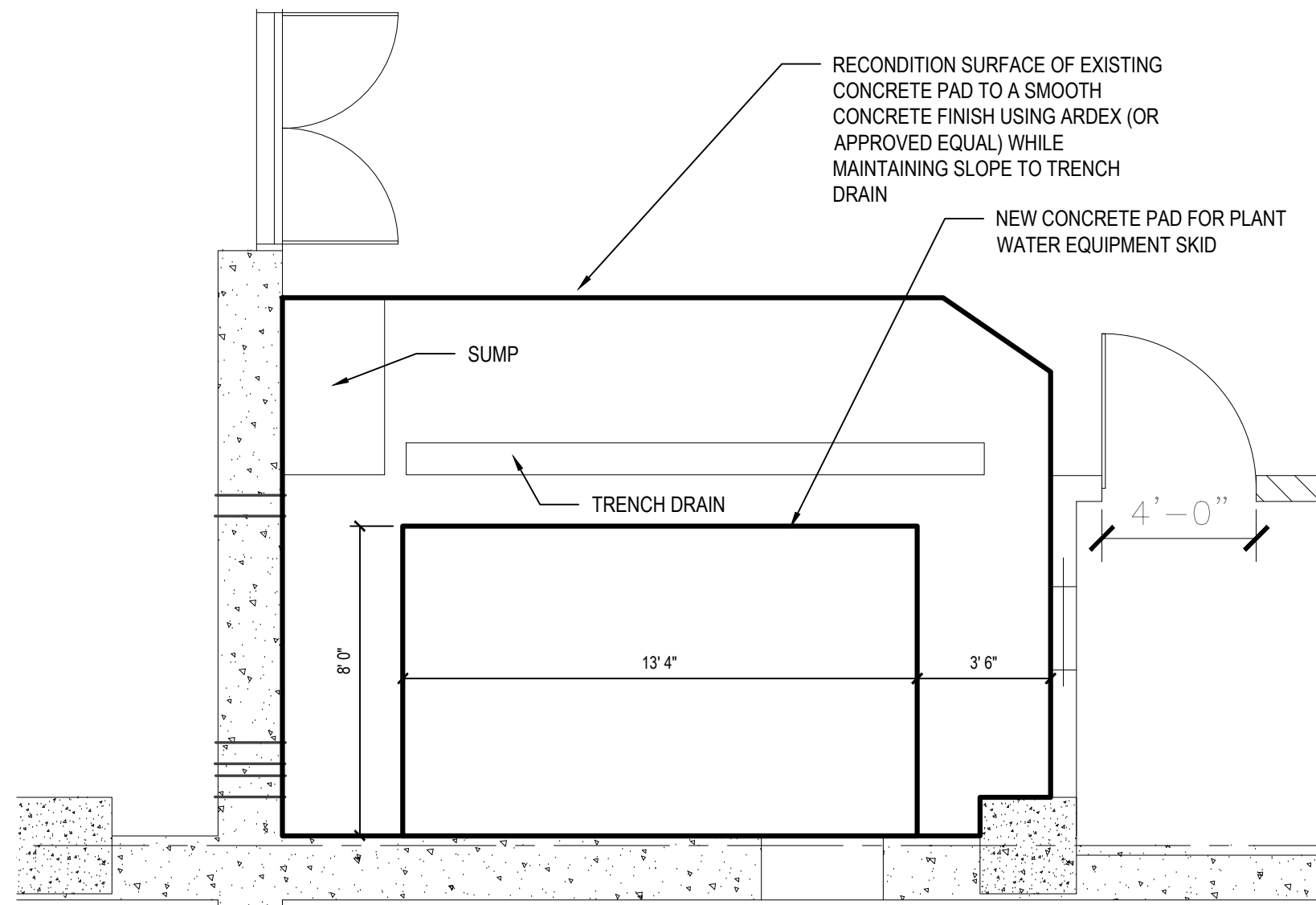


CONCRETE NOTES:

1. PROVIDE BATCH MIXING, TRANSPORTATION, PLACING AND CURING OF CONCRETE IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 301 AND ACI 318. USE TYPE II PORTLAND CEMENT UNLESS NOTED OTHERWISE. PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED.
 - A. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) CONCRETE
FC = 4000 PSI AT 28 DAYS.
2. PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING LABORATORY AS PER ACI 301 FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
3. CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH UNLESS NOTED OTHERWISE.
4. WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE.
5. PROVIDE ADEQUATE STRUCTURAL FRAMING FOR MECHANICAL OPENINGS THROUGH, SLABS, AND WALLS.
6. PROVIDE CONSTRUCTION AND CONTROL JOINTS AS REQUIRED BY A.C.I. CODE AND AS INDICATED ON DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED. SUBMIT PLAN TO ENGINEER INDICATING PROPOSED CONTROL AND EXPANSION JOINT LOCATIONS IN CONCRETE SLABS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
7. PROVIDE THREE (3) COMPONENT, SOLVENT FREE MOISTURE TOLERANT EPOXY-MODIFIED CEMENTITIOUS PRODUCT. PRODUCT ARMATEC 110 EPOCEM AS MANUFACTURED BY SIKA CORP. OR SPECIFICALLY APPROVED EQUAL.

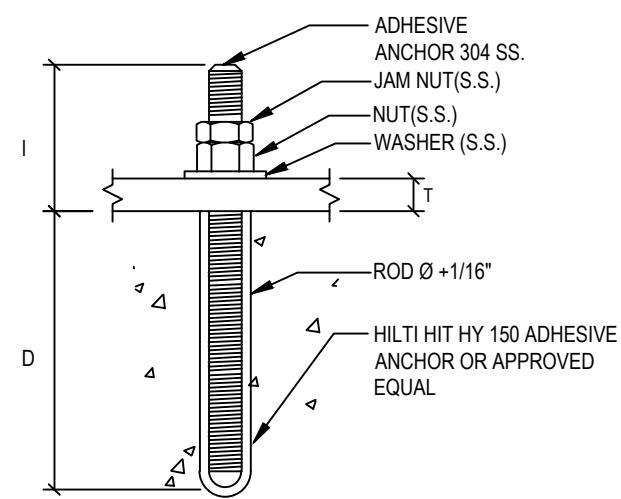
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CONTRACTOR			PROJECT COORDINATOR	
NAME SIGNATURE TITLE			NAME SIGNATURE TITLE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			CONTRACT NUMBER 16-512	SHEET NUMBER S1.2
DIVISION OF ENGINEERING			SHEET NO. 5 OF 28	
SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK			SCALE: AS SHOWN DATE: MARCH 2022	
STRUCTURAL NOTES AND DETAILS			DPW FILE NO. 200-00-S-1042-0	REV. NO.



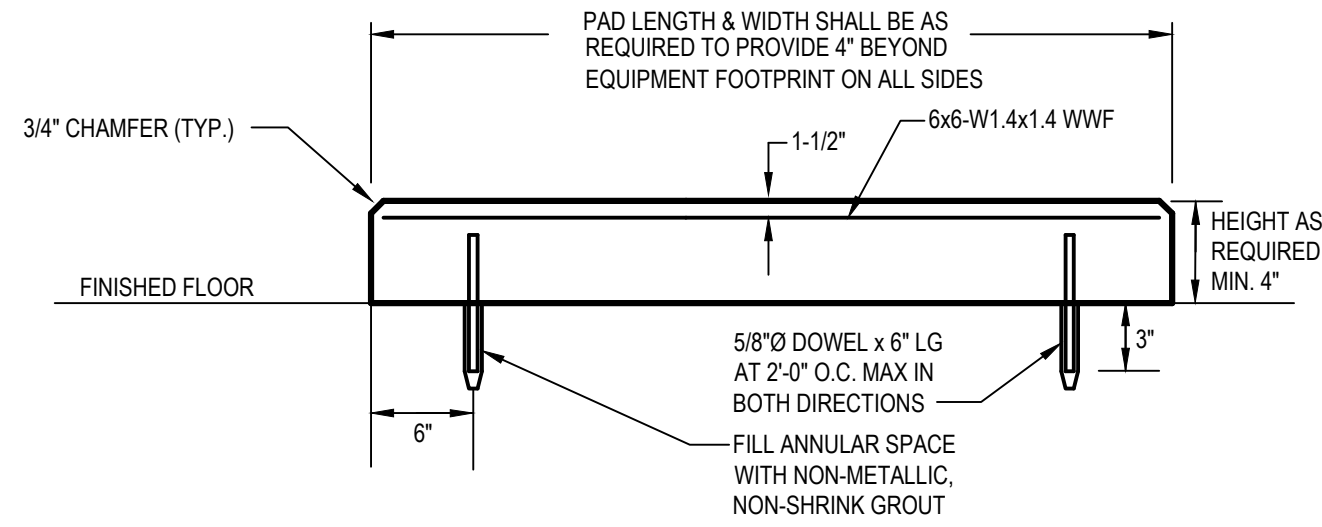
1 Plant Water Concrete Plan
SCALE: 1/4"=1'-0"

DIA.	DRILL HOLE	EMBEDMENT DEPTH "D"	ROD LENGTH	ALLOWABLE TENSION LBS.	ALLOWABLE SHEAR LBS.
3/8"	7/16"	5-1/4"	D+T-NUT+1-1/2" THREAD	2855	1875
1/2"	9/16"	6-3/8"	"	2385	3335
5/8"	1 1/16"	7-1/2"	"	8225	5215
3/4"	1 3/16"	10"	"	12124	6385

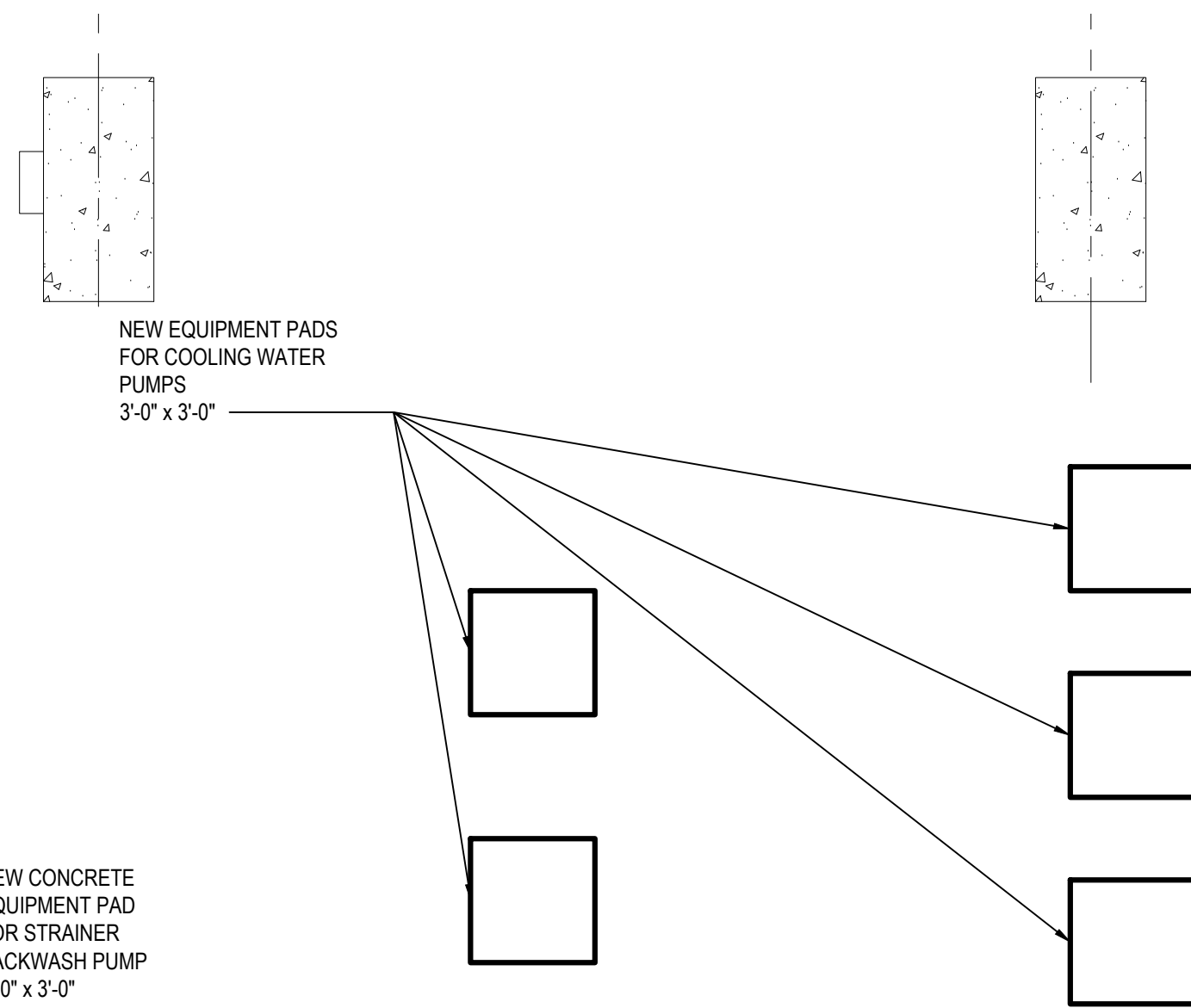


NOTE:
WHERE SIZE IS NOT INDICATED, SELECT ADHESIVE ANCHOR BASED ON INTENDED LOAD AS APPROVED BY ENGINEER.

4 Anchoring Detail
SCALE: 1/2"=1'-0"



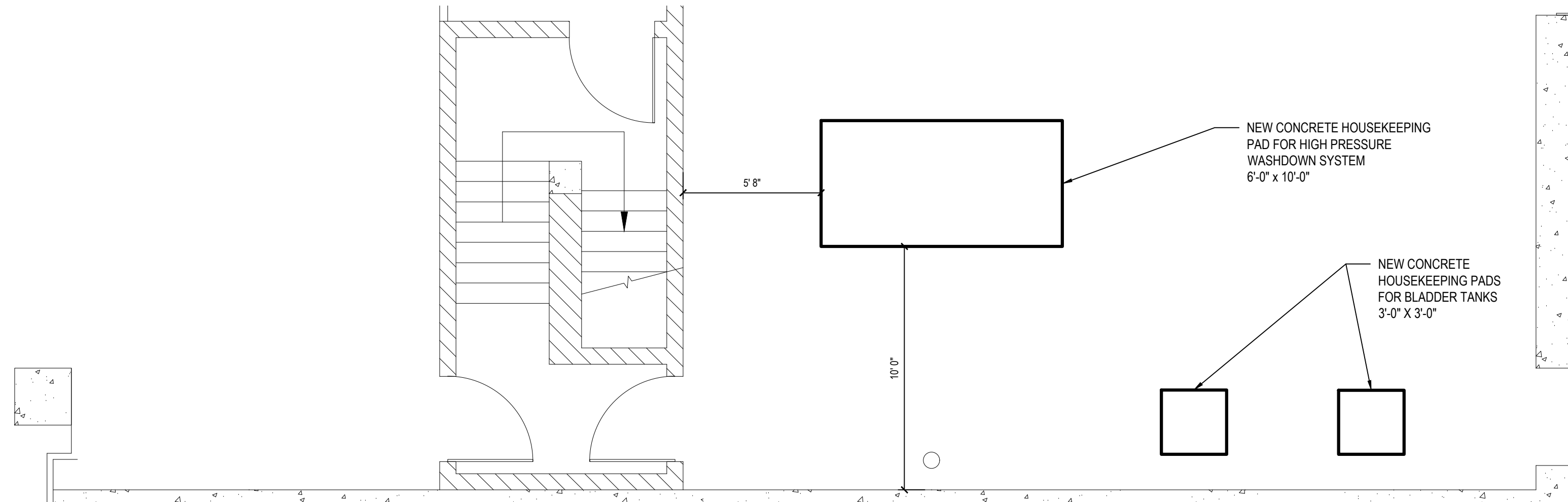
5 Typical Equipment Pad Detail
SCALE: NTS



2 Cooling Water Pump and Strainer Concrete
SCALE: 1/4"=1'-0"

NEW CONCRETE EQUIPMENT PAD FOR STRAINER BACKWASH PUMP
2'-0" x 3'-0"

3 Air Compressor System Concrete (Alternate 2)
SCALE: 1/4"=1'-0"

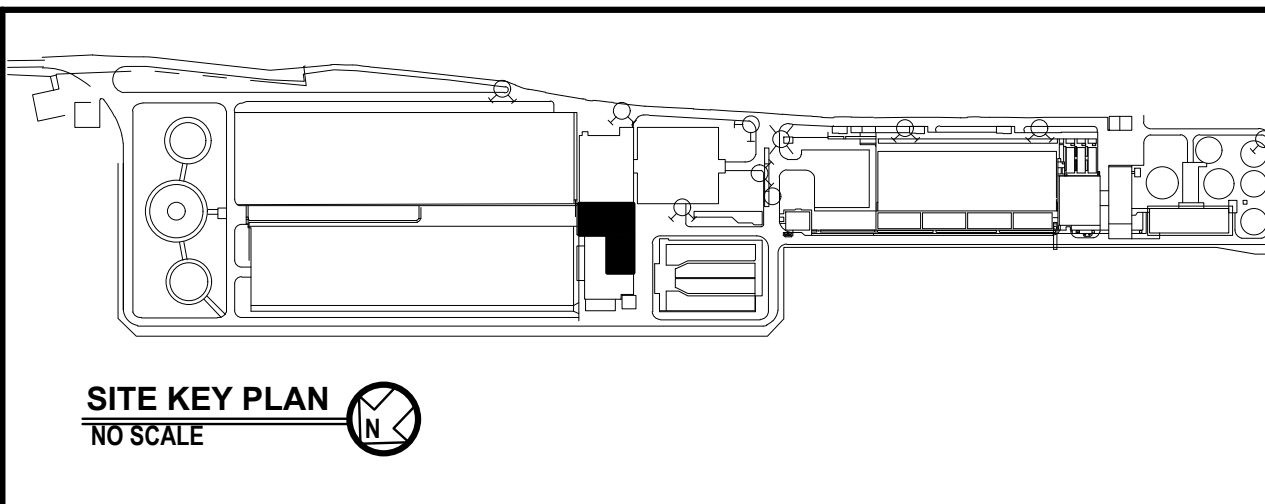
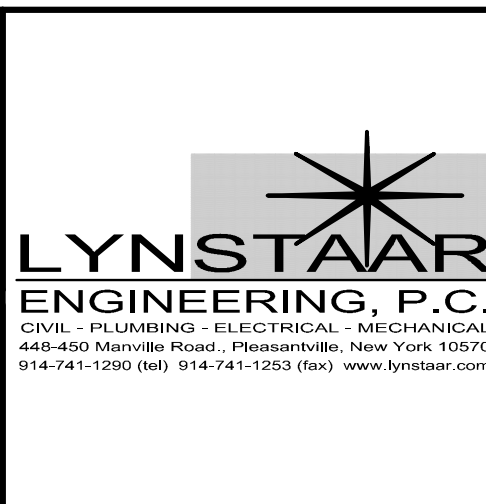


6 High Pressure Washdown Concrete (Alternate 1)
SCALE: 1/4"=1'-0"

NOTES:

- REFER TO 'M' DRAWINGS FOR REMOVALS DETAILS AND FOR WHICH ELEMENTS ARE TO REMAIN.
- NEW CONCRETE PADS AND RECONDITIONED FLOOR SHALL BE PAINTED TO MATCH THE EXISTING FLOOR COLOR BEFORE INSTALLING EQUIPMENT.
- REFER TO 'M' DRAWINGS FOR ELEVATION OF EXISTING PIPING AND COORDINATE WITH THE APPROVED SUBMITTAL FOR THE HEIGHT REQUIREMENT OF EACH PAD.

IN CHARGE OF JTP
CHECKED BY SCH
MADE BY TMN

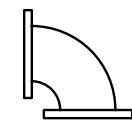
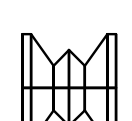
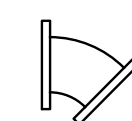
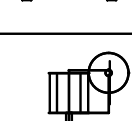


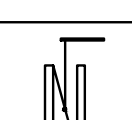
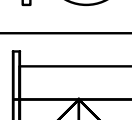
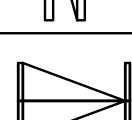
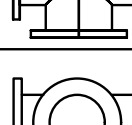
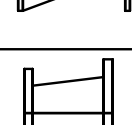
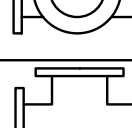
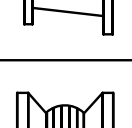


REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
CONTRACTOR				PROJECT COORDINATOR
NAME				NAME
SIGNATURE				SIGNATURE
TITLE				TITLE
DATE				DATE
WESTCHESTER COUNTY, NEW YORK				CONTRACT NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				16-512
DIVISION OF ENGINEERING				SHEET NUMBER
SECONDARY SYSTEM REHABILITATION				S2.0
YONKERS JOINT WASTEWATER TREATMENT PLANT				SHEET NO. 6 OF 28
YONKERS, NEW YORK				SCALE: AS SHOWN
CONCRETE SUPPORT PAD PLANS AND DETAILS				DATE: MARCH 2022
DPW FILE NO.				REV. NO.
200-00-S-1043-0				

DRAWING CONVENTIONS

DRAWING CONVENTIONS			
	Room Designation		Column Grid
	Window Type		Elevation Line
	Door Number		Drawing Title
	Building Section Cut		Detail Reference
	Wall Section Cut		Interior Elevation Reference
	Detail Key		Revision
	Elevation Key		SEE DETAIL No.
	SEE NOTE No.		ON DRAWING No.
	ON DRAWING No.		

SYMBOL LEGEND

	90° ELBOW		PLUG VALVE
	45° ELBOW		PLUG VALVE WITH SOLENOID OPERATOR
	ELBOW DOWN		
	ELBOW UP		BUTTERFLY VALVE
	TEE		CHECK VALVE
	TEE UP		REDUCER
	CROSS		BALL VALVE

APPLICATION	COLOR	NOTE
SEWAGE	GREY	1
WASHWATER	BLUE WITH 1" WIDE BLACK BANDS	-
SLUDGE	BROWN WITH 1" WIDE BLACK BANDS	1
DOMESTIC WATER	BLUE	1
WASTEWATER REUSE	PURPLE	1
PLANT EFFLUENT	BLUE WITH 1" WIDE BLACK BANDS	1
SODIUM HYPOCHLORITE	YELLOW	1
FUEL OIL/DIESEL	RED	1
PLUMBING DRAINS AND VENTS	BLACK	1
COMPRESSED AIR	GREEN	1
POLYMER	PURPLE	1

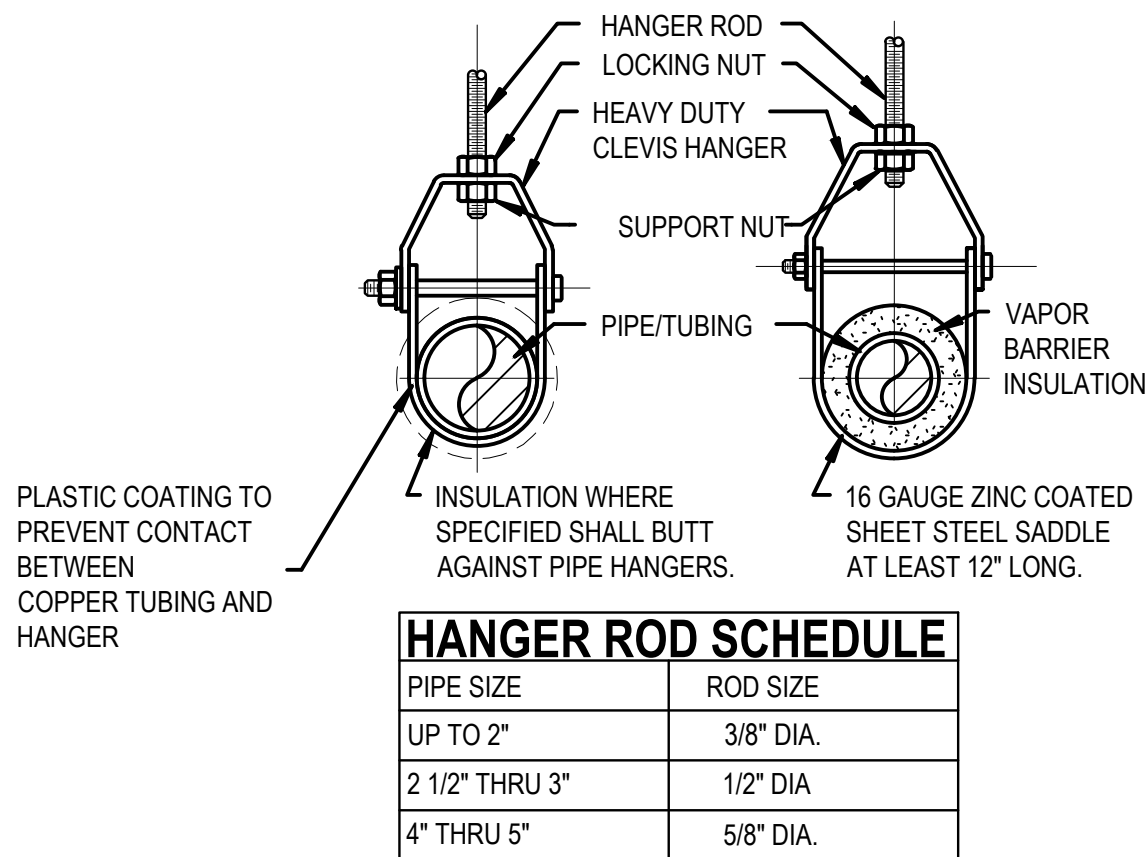
1. ALL PIPING, FITTINGS AND VALVES CONVEYING RAW OR TREATED SEWAGE, SLUDGE OR AIR SHALL BE CONSIDERED 'PROCESS PIPING'.
2. ALL NEW EXPOSED PLUMBING AND PROCESS PIPING, FITTINGS AND VALVES SHALL BE PAINTED UNLESS OTHERWISE NOTED.

1. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE PLUMBING CODE, STATE FIRE CODE, STATE MECHANICAL CODE AND THE STATE FUEL GAS CODE.
2. APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND BE RESPONSIBLE TO PAY ALL COSTS ASSOCIATED WITH REQUIRED PERMITS AND INSPECTIONS.
3. COORDINATE ALL WORK WITH THAT OF OTHER TRADES.
4. THE DESIGN DRAWINGS ARE SCHEMATIC IN NATURE. EXACT ROUTING OF PIPING AND INSTALLATION OF VALVES, ACCESS DOORS, CLEAN OUTS, ETC. SHALL BE COORDINATED IN FIELD AS DICTATED BY THE CONDITIONS ENCOUNTERED.
6. ALL GAS-FIRED EQUIPMENT SHALL BE SUPPLIED WITH GAS PIPING AS PER THE STATE FUEL GAS CODE. EACH PIECE OF EQUIPMENT SHALL HAVE A DIRT LEG, UNION AND GAS COCK. PROVIDE A VENTED REGULATOR IF EQUIPMENT REQUIRED LOWER THAN LINE GAS PRESSURE.
7. ALL CONNECTIONS TO SERVICE PROVIDED BY OTHERS SHALL BE COORDINATED WITH THE OWNER AND UTILITY COMPANIES AS REQUIRED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF NEW SERVICES, CONNECTIONS TO NEW PIPING AS PROVIDED BY LOCAL UTILITY COMPANIES AND ALL UTILITY CONTACTS RELATED TO FIELD CONDITIONS AND WORK.
8. ALL PENETRATIONS THROUGH FLOOR ASSEMBLIES, CORRIDOR WALLS AND OTHER SIMILAR FIRE RATED PARTITIONS SHALL RECEIVE CODE COMPLIANT FIRE STOPPING TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY PENETRATED
9. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE OR REMOVAL
10. ALL SLAB AND FOOTING PENETRATIONS SHALL INCLUDE LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS.
11. CUT AND PATCH AS REQUIRED. PATCHING SHALL BE ROUGH PATCH IN PREPARATION FOR FINISH. PATCHING SHALL INCLUDE PROPER FLASHING AND COUNTER FLASHING OF ALL VENT PENETRATIONS, ROOF DRAINS, PIPE PORTALS, ETC. AS REQUIRED TO SEAL ALL PLUMBING ROOF PENETRATIONS. ALL ROOF PENETRATION REPAIR SHALL BE BY A QUALIFIED PROFESSIONAL AND SHALL NOT VOID ANY GUARANTEES ASSOCIATED WITH ROOFING MATERIAL OR INSTALLATIONS.
12. ALL MATERIALS, EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' WRITTEN INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATIONS TO ACCOMMODATE ALL REQUIRED CLEARANCES AND OBSERVE ALL REQUIREMENTS FOR VALVING AND CONNECTIONS.
13. ALL DOMESTIC POTABLE WATER PIPING SHALL BE FLUSHED, DISINFECTED AND THE WATER TESTED IN ACCORDANCE WITH THE NYS PLUMBING CODE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES FOR THEIR APPROVAL.
14. WORK SHOWN IS NEW UNLESS SPECIFICALLY NOTED OR OTHERWISE INDICATED AS EXISTING.
15. DO NOT SCALE MEASURE ANY DRAWING. VERIFY THE FIGURES, DIMENSIONS & DESIGN INTENT SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK. REPORT ANY ERRORS, INACCURACIES, MISSING DIMENSIONAL REQUIREMENTS OR CONFLICTS TO THE ENGINEER IN WRITING BEFORE BEGINNING ANY WORK.
16. VERIFY LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE BEGINNING WORK.
17. ALL WORK SHOWN IS INCLUDED AS WORK OF CONTRACT UNLESS OTHERWISE NOTED.
18. ALL STORAGE OF CONSTRUCTION MATERIAL, EXCESS EXCAVATED MATERIALS AND CONSTRUCTION STAGING AND OVERNIGHT PARKING OF CONSTRUCTION VEHICLES SHALL BE LIMITED TO THE PROJECT SITE PROPERTY LIMITS AS SHOWN ON THE PLANS.
19. THE ENGINEERS ROLE IS NOT TO SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION SELECTED OR USED BY THE CONTRACTOR FOR SECURITY OR SAFETY AT THE SITE. FOR SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE CONTRACTOR'S WORK IN PROGRESS, NOR ANY FAILURE OF THE CONTRACTOR TO COMPLY WITH LAWS AND REGULATIONS APPLICABLE TO THE CONTRACTOR'S FURNISHING AND PERFORMING THE WORK AS SHOWN AND/OR SPECIFIED.
20. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.

1. SUBMIT, FOR ENGINEER'S REVIEW AND APPROVAL, PIPING LAYOUT DRAWINGS TO A SCALE OF 1/4"=1'-0". LAYOUT DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 01330-SUBMITTALS. USE THE DIMENSIONS OF EQUIPMENT AND VALVES BEING USED FOR THE PROJECT OR ACCOUNT FOR DIMENSIONAL DIFFERENCES IN EQUIPMENT.
2. PROVIDE SNAP-ON PLASTIC PIPE MARKERS WITH FLOW DIRECTION ARROWS UNDER PROVISIONS OF SECTION 220553.
3. PROVIDE ENGRAVED PLASTIC LAMINATE SIGNS (SECTION 220553) AT LOCATIONS SELECTED BY THE ENGINEER. ALL DANGER SIGNS SHALL BE ALUMINUM OSHA PLATES. ALL CAUTION AND WARNING SIGNS SHALL BE GRAPHIC OSHA SIGNS. THE FOLLOWING SIGNS SHALL BE PROVIDED, QUANTITY AS INDICATED IN PARENTHESIS:
"CAUTION - THIS EQUIPMENT STARTS AND STOPS AUTOMATICALLY" (2)
"NOTICE - KEEP AREA CLEAN" (2)
4. ALL MOUNTING HARDWARE AND SUPPORTS, REGARDLESS OF LOCATION AND/OR APPLICATION, SHALL BE 304 S.S.


PIPING MATERIAL	MAX. HORIZONTAL (FT)	MAX. VERTICAL (FT)
ABS PIPE	4	10
ALUMINUM TUBING	10	15
BRASS PIPE	10	10
CAST-IRON PIPE	5	15
COPPER OR COPPER ALLOY PIPE	12	10
COPPER OR COPPER ALLOY PIPE 1 1/4"Ø OR SMALLER	6	10
COPPER OR COPPER ALLOY PIPE 1 1/2"Ø OR LARGER	10	10
PEX	2.67	10
CPVC 1" OR SMALLER	3	10
CPVC 1 1/4" OR LARGER	4	10
STEEL PIPE	12	15
POLYETHYLENE /ALUMINUM/ POLYETHYLENE	2.67	4
PVC PIPE	4	10
STAINLESS STEEL DRAINAGE	10	10
D.I. UP TO 20"Ø	-	-

1. HANGER SPACING BASED ON COPPER AND STEEL PIPE WITHOUT VALVES OR OTHER EQUIPMENT.
INCREASED LOAD DUE TO VALVE AND EQUIPMENT SHALL REQUIRE CLOSER SPACING OF HANGERS.



HANGER ROD SCHEDULE

PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" THRU 3"	1/2" DIA
4" THRU 5"	5/8" DIA.



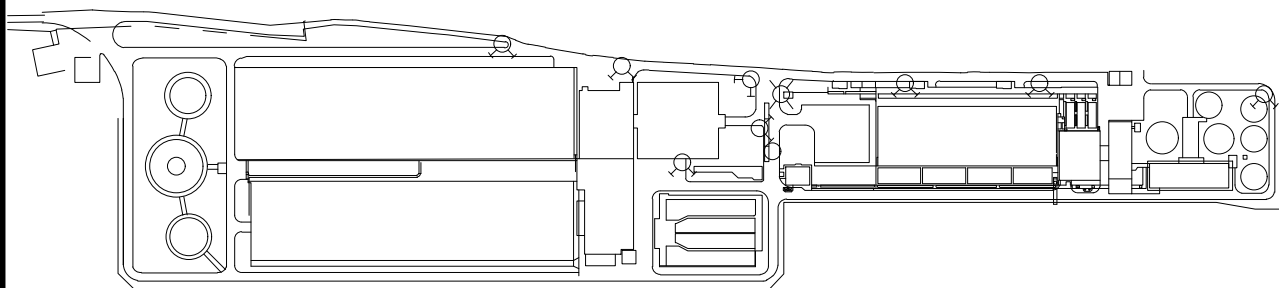
H2M
architects
+
engineers

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Melville, NY 11747
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New York, NY 10001
White Plains, NY 10606
Suffern, NY 10901
Parsippany, NJ 07054
Howell, NJ 07731
Riverhead, NY 11701

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A LICENSED PROFESSIONAL IS ILLEGAL."


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448-450 Manville Road, Pleasantville, New York 10570
914-741-1290 (tel) 914-741-1253 (fax) www.lyNSTAAR.com



SITE KEY PLAN

NO SCALE

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

DIVISION OF ENGINEERING

SECONDARY SYSTEM REHABILITATION

**YONKERS JOINT WASTEWATER TREATMENT PLANT
YONKERS, NEW YORK**

MECHANICAL LEGEND, SYMBOLS, ETC

CONTRACT NUMBER	SHEET NUMBER
12-512	MO-0

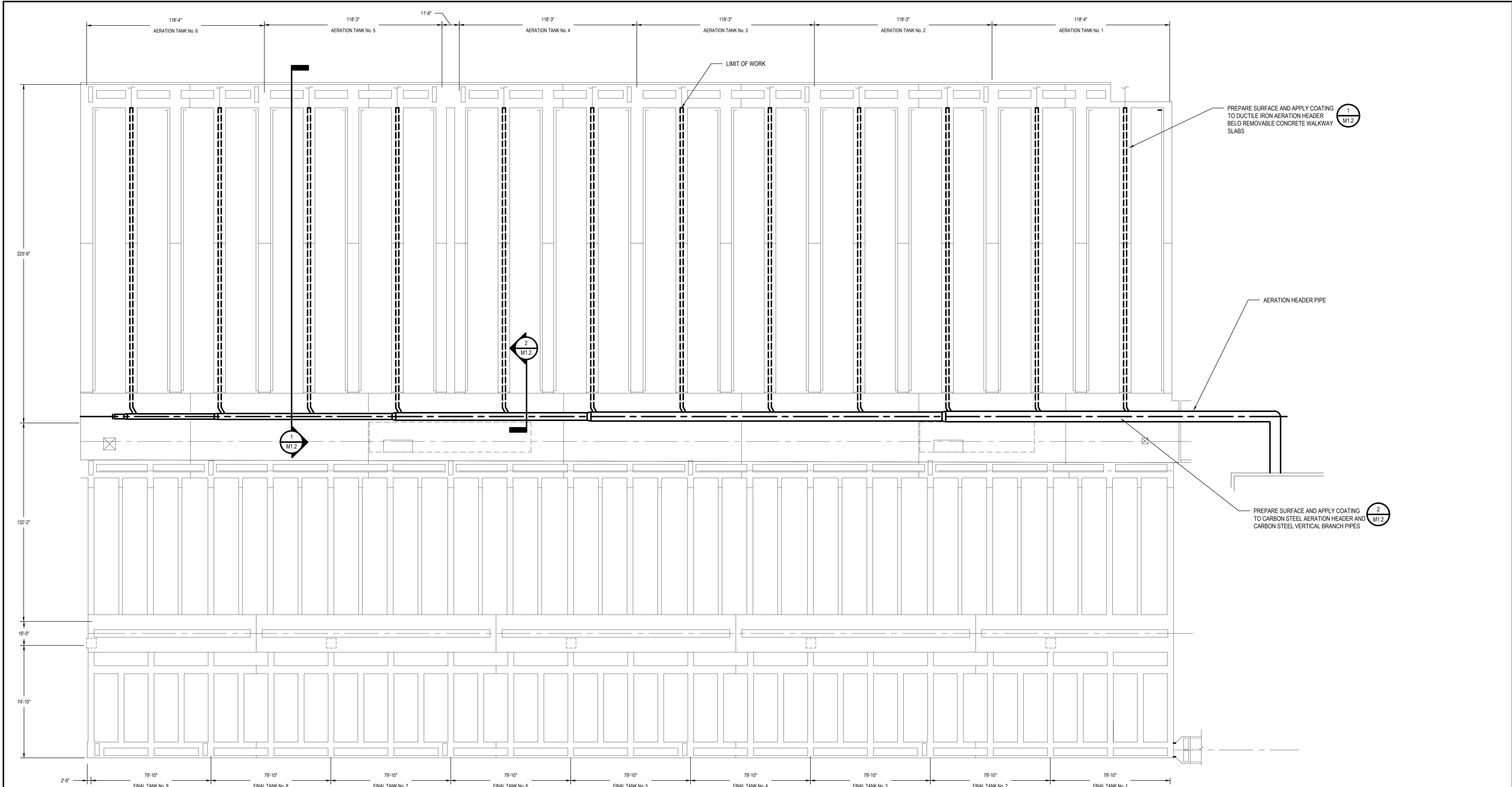
16-512	MO.0
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SHEET NO. 7 OF 28

SCALE: AS SHOWN

SCALE: AS SHOWN	
DATE: MARCH 2022	
DPW FILE NO	REF

200-00-M-1044-0



1 Secondary Tanks Aeration Header Coating Overview Plan
SCALE: 1"=30'

IN CHARGE OF JTP
CHECKED BY SCH
MADE BY TMN



H 2 M architects + engineers

538 Broadhollow Road
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Melville, NY 11747
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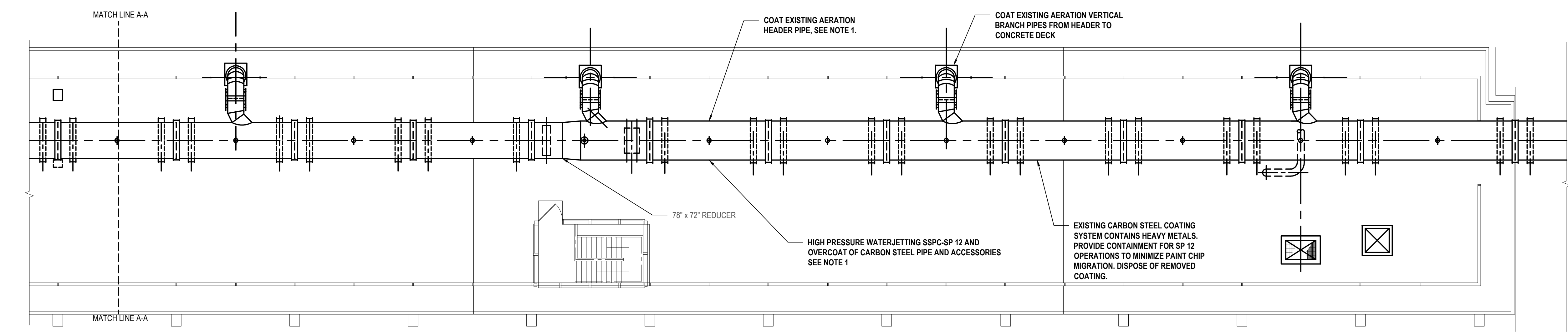
Melville, NY 11747
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New York, NY 10001
White Plains, NY 10604
Suffern, NY 10901
Parsippany, NJ 07054
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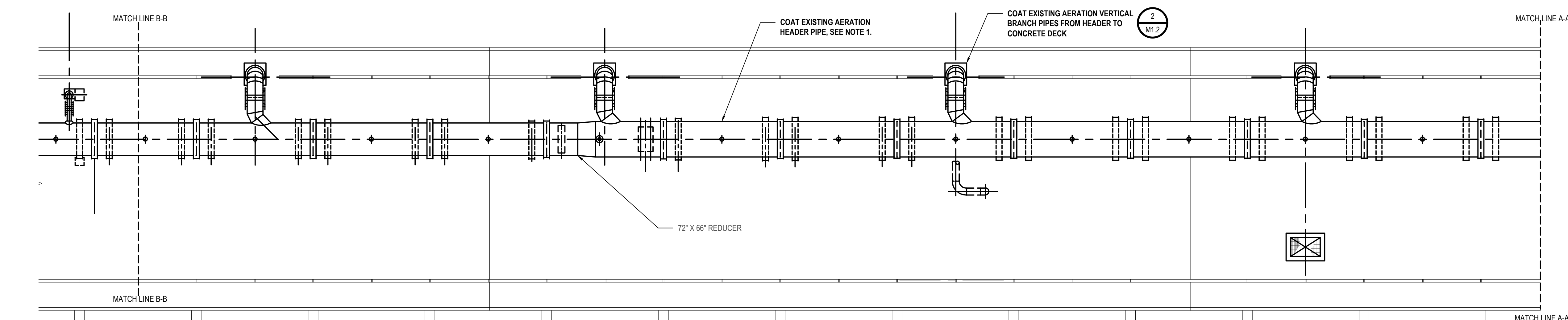
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914-741-1290 (tel) 914-741-1253 (fax) www.lynstaar.com

SITE KEY PLAN
NO SCALE

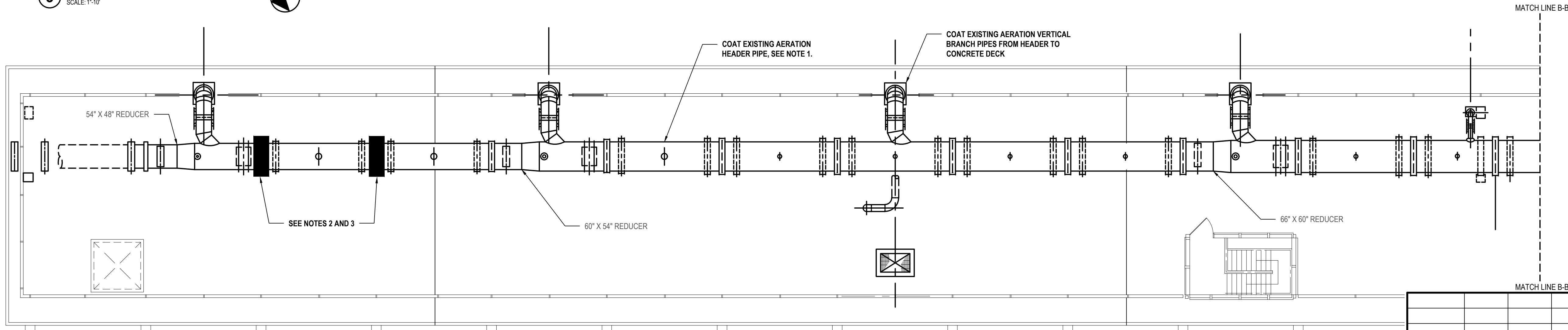
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CONTRACTOR			PROJECT COORDINATOR	
NAME _____ SIGNATURE _____ TITLE _____			NAME _____ SIGNATURE _____ TITLE _____	
DATE _____			DATE _____	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			CONTRACT NUMBER 16-512 SHEET NUMBER M1.0	
DIVISION OF ENGINEERING			SHEET NO. 8 OF 28	
SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK			SCALE: AS SHOWN DATE: MARCH 2022	
AERATION HEADER COATING PLAN			DPW FILE NO. 200-00-M-1045-0 REV. NO.	



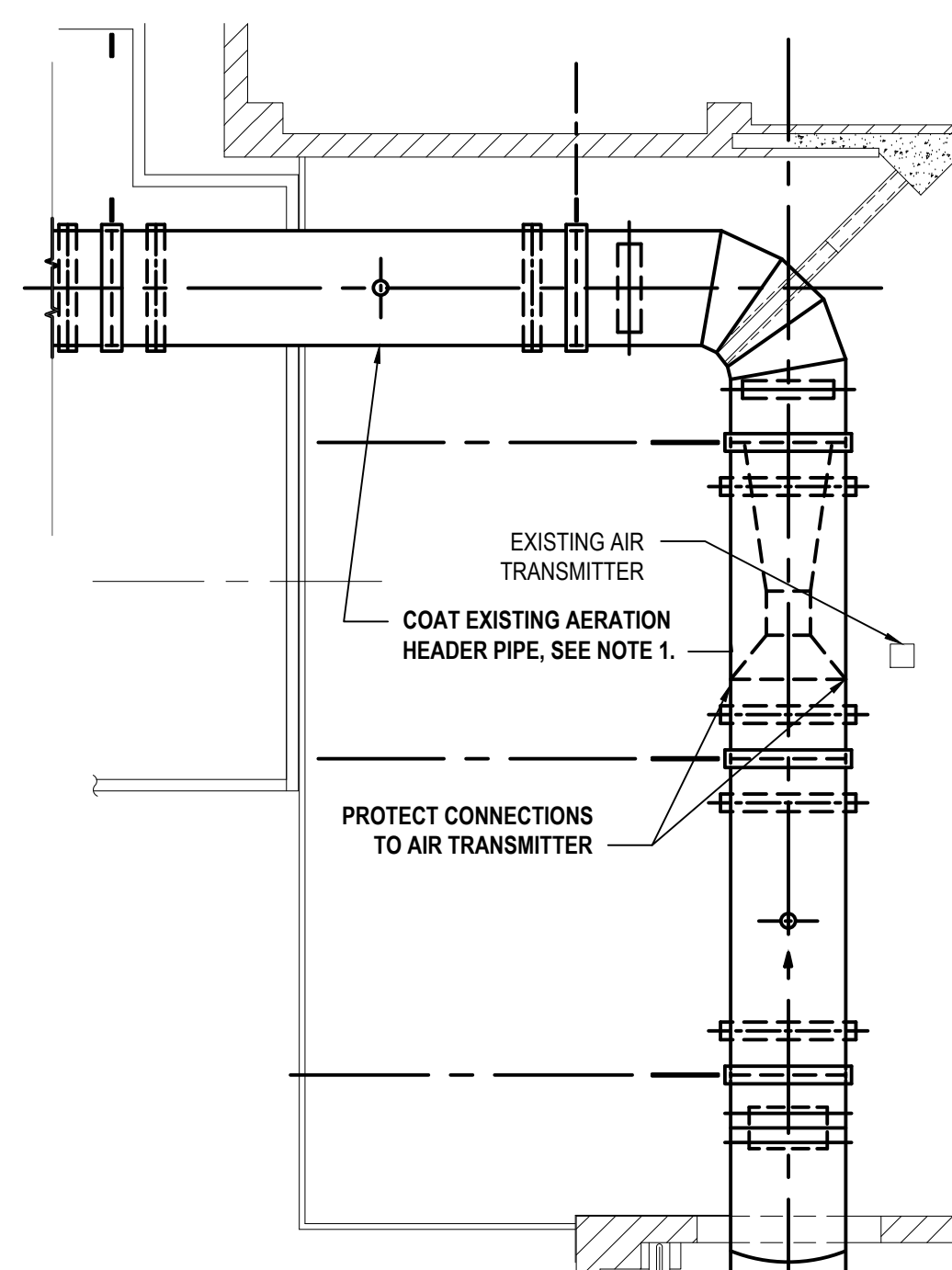
2 Aeration Header Partial Plan 2
SCALE: 1"=10'



3 Aeration Header Partial Plan 3
SCALE: 1"=10'



4 Aeration Header Partial Plan 4
SCALE: 1"=10'



1 Aeration Header Partial Plan 1
SCALE: 1"=10'

- NOTES:**
1. PREPARE SURFACE AND COAT EXISTING AERATION HEADER PIPE. REFER TO SECTION 099744 - MECHANICAL PIPING COATING SYSTEMS.
 2. REPAIR LEAKING MECHANICAL JOINT WITH WRAP-AROUND STYLE REPAIR CLAMPS BY DRESSER, SMITH-BLAIR, OR EQUAL. SUPERINTENDENT PRIOR TO MECHANICAL JOINT REPLACEMENT. REFER TO SPECIFICATIONS FOR THE WORK RESTRICTIONS INCLUDING TIME LIMIT FOR SHUTDOWN OF AERATION PROCESS AIR.
 3. LEAD BASED PAINT HAS BEEN IDENTIFIED IN THE EXISTING AERATION HEADER COATING. REFER TO LEAD PAINT REPORT CONTAINED IN THE PROJECT MANUAL FOR MORE INFORMATION. REMOVE LEAD BASED PAINT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND DISPOSE OF AT A PERMITTED RECEIVING FACILITY.

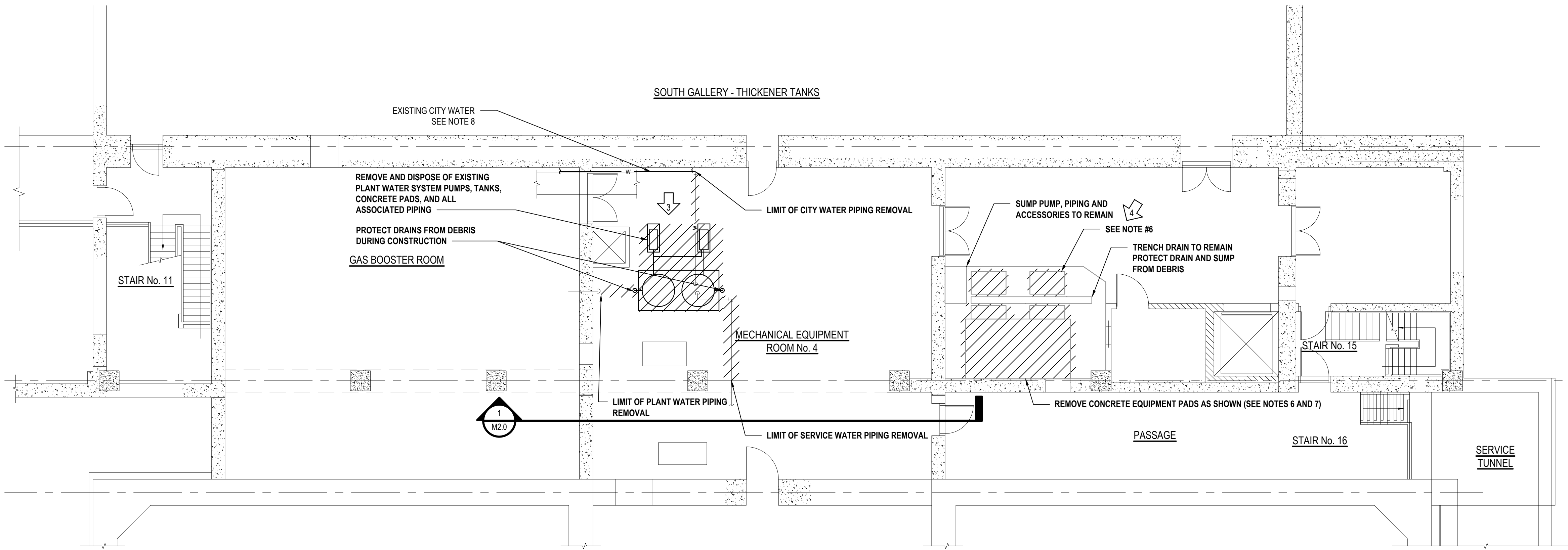
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MADE BY TMN

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538 Broadhollow Road
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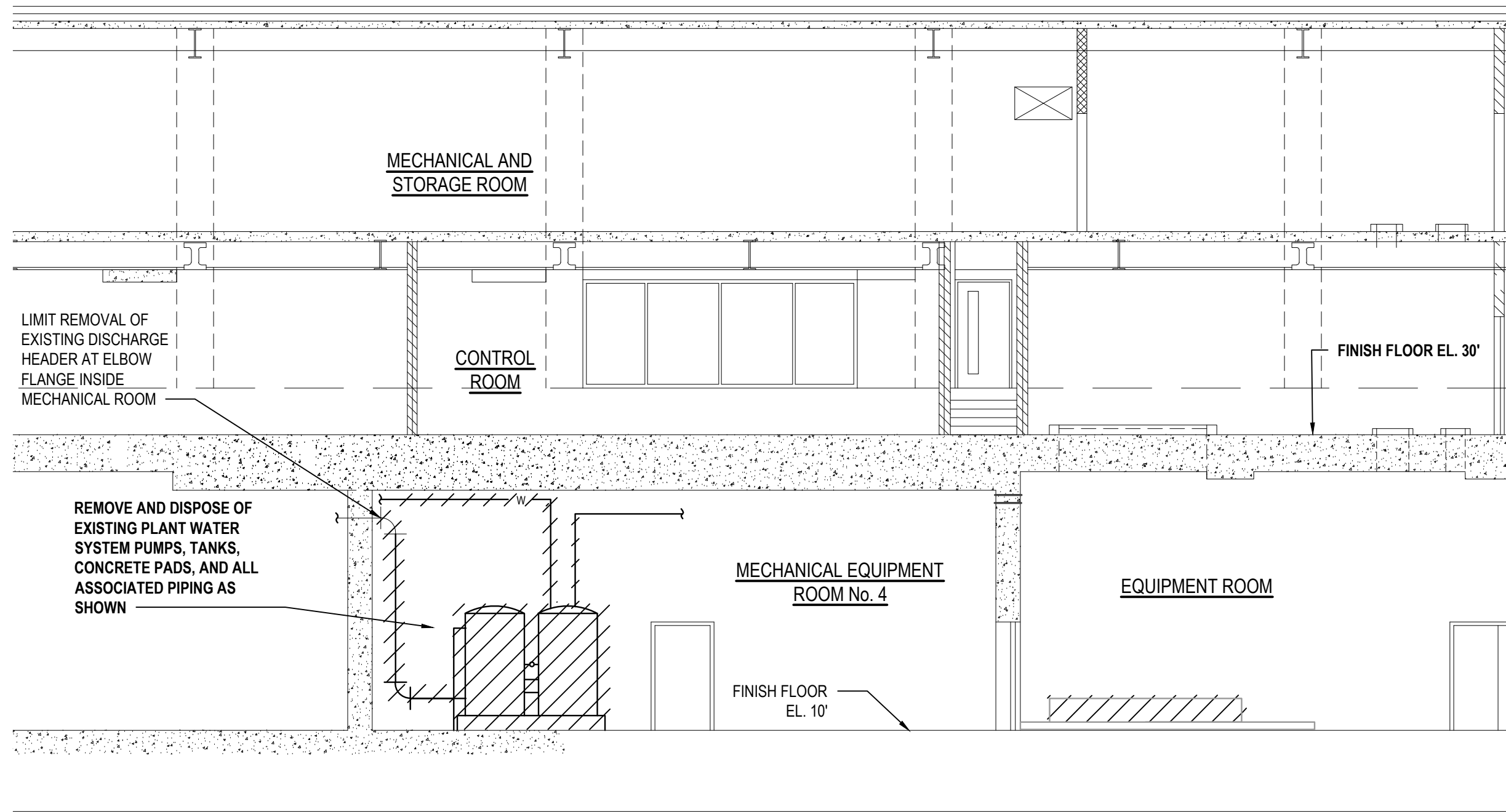
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SITE KEY PLAN
NO SCALE

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME	NAME	DATE	SHEET NUMBER	
SIGNATURE	SIGNATURE		M1.1	
TITLE	TITLE		SHEET NO. 9 OF 28	
WESTCHESTER COUNTY, NEW YORK				SCALE: AS SHOWN
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				DATE: MARCH 2022
DIVISION OF ENGINEERING				DPW FILE NO.
SECONDARY SYSTEM REHABILITATION				200-00-M-1046-0
YONKERS JOINT WASTEWATER TREATMENT PLANT				REV. NO.
YONKERS, NEW YORK				
AERATION HEADER PARTIAL PLANS				



1 Plant Water System Removals Plan
SCALE: 1/8"=1'-0"



2 Plant Water System Removals Section
SCALE: 1/8"=1'-0"

DEMOLITION NOTES:

- ALL Voids created from removal of existing piping or equipment through a wall/slab shall be filled with non-shrink grout unless otherwise noted.
- Removal of called out or hatched equipment shall include removal and disposal of equipment and all associated accessories including, but not limited to, piping, valves, fittings, supports, maintenance pads, and control equipment unless otherwise noted.
- Demolition drawings were obtained from records supplied by others. The owner and engineer do not guarantee or accept responsibility for discrepancies in location and size shown on the plans, nor will any compensation be made to the contractor for any inconveniences caused by the contractor by encountering the aforementioned discrepancies which are incorrectly shown on the plans. The contractor is responsible for confirming existing conditions prior to commencing the work.
- Review all demolition with the owner/engineer to confirm demolition extents prior to beginning the work of this phase. Clearly mark all equipment piping, valves, fittings, supports, maintenance pads, control equipment, etc. scheduled for demolition prior to beginning the work.
- Schedule and perform all demolition to conform with requirements set forth in specification section 017000 - Maintenance of Plant Operations.
- Equipment Pad Removals

PAD SIZE	COUNT
8' x 14' x 2'	1
5' x 2' x 1'	2
3' x 5' x 1'	2
- Recondition concrete surface under removed pads to a smooth concrete finish to match that of the larger 14' x 20' pad.
- Contractor to coordinate potable water shutdown with Yonkers JWWTP Supervisor. Provide valves such that the existing and new plant water systems can be utilized during startup period.

LEGEND:

REMOVE AND DISPOSE



3 Existing Plant Water System
SCALE: NTS



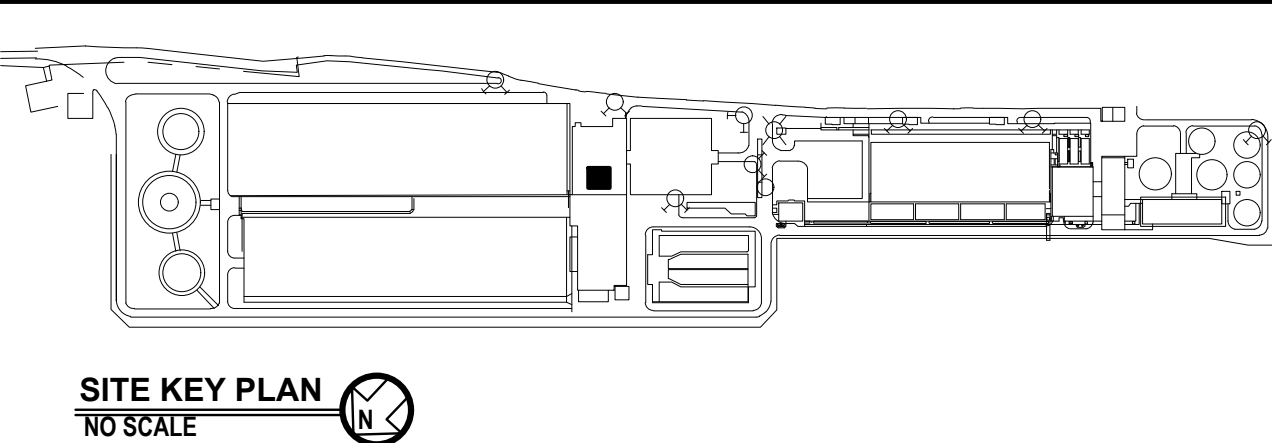
4 New Plant Water System Location
SCALE: NTS

IN CHARGE OF JTP
CHECKED BY SCH
MADE BY TMN



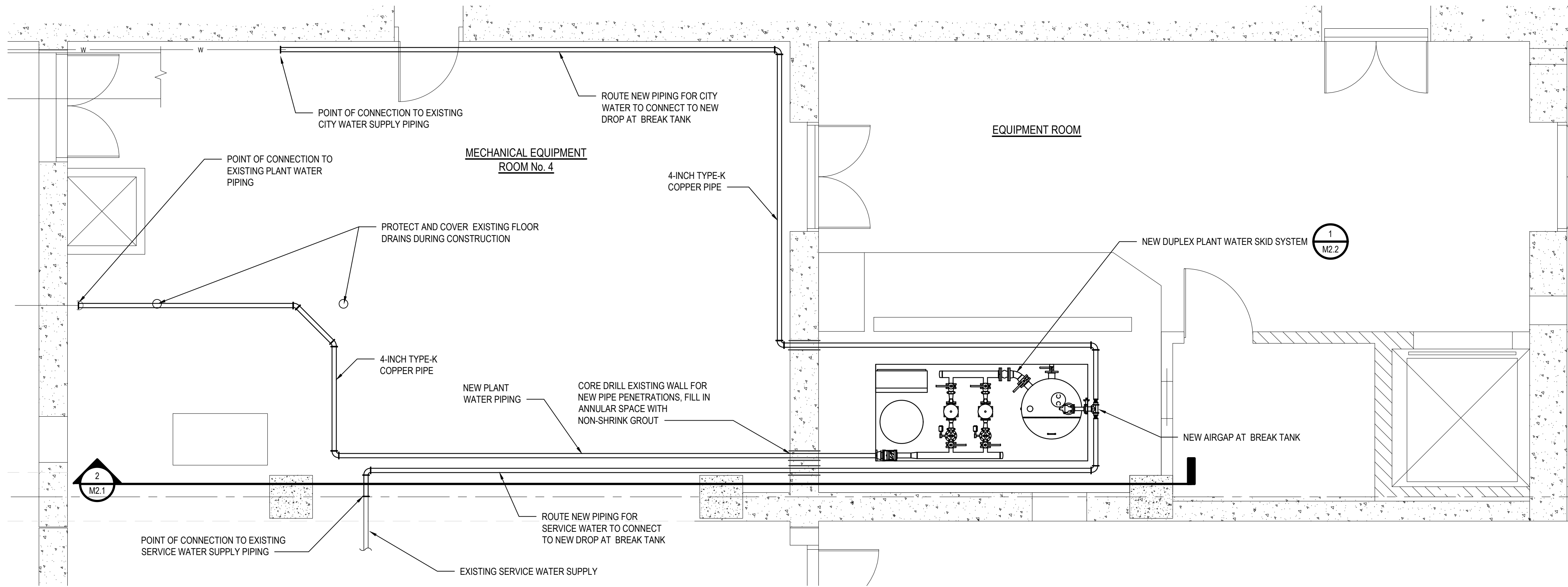
H 2 M architects + engineers
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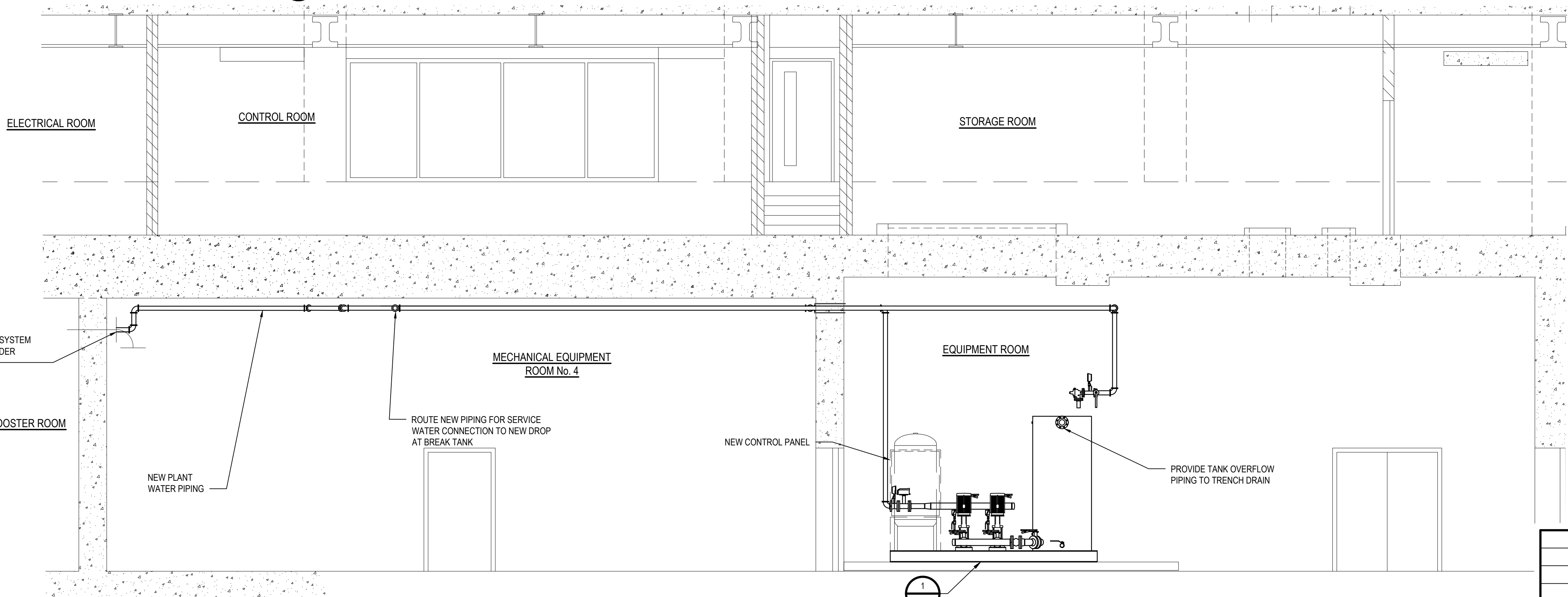


SITE KEY PLAN
NO SCALE

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	
SIGNATURE		SIGNATURE		
TITLE		TITLE		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK				CONTRACT NUMBER 16-512 SHEET NO. 11 OF 28 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-M-1048-0
THICKENER BUILDING REMOVALS PLAN AND SECTIONS				REV. NO.



1 Plant Water System Plan View
SCALE: 1/4"=1'-0"



2 Plant Water System Section View
SCALE: 1/4"=1'-0"

NOTE:

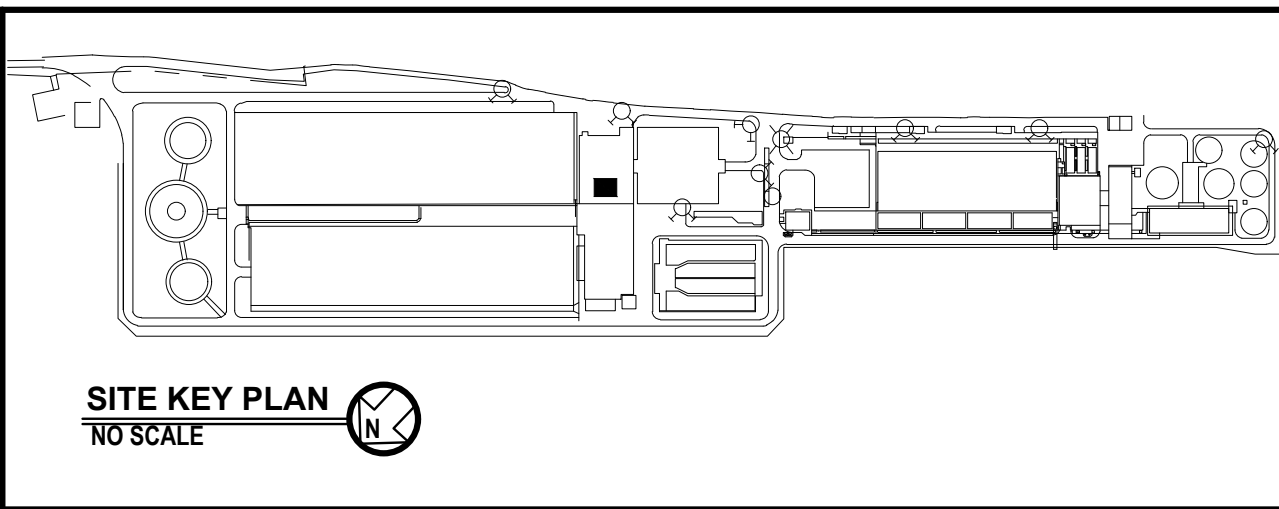
1. INSULATE ALL NEW PLANT WATER SYSTEM PIPING.
2. COORDINATE WITH PLANT WATER SKID MANUFACTURER FOR FACTORY VS. FIELD CONNECTION REQUIREMENTS AND FOR RESTRICTIONS FOR LOWERING THE SYSTEM INTO THE BASEMENT LEVEL. REFER TO SECTION 011400 - WORK RESTRICTIONS FOR INFORMATION REGARDING THE USE OF THE OWNERS LIFTING DEVICES.

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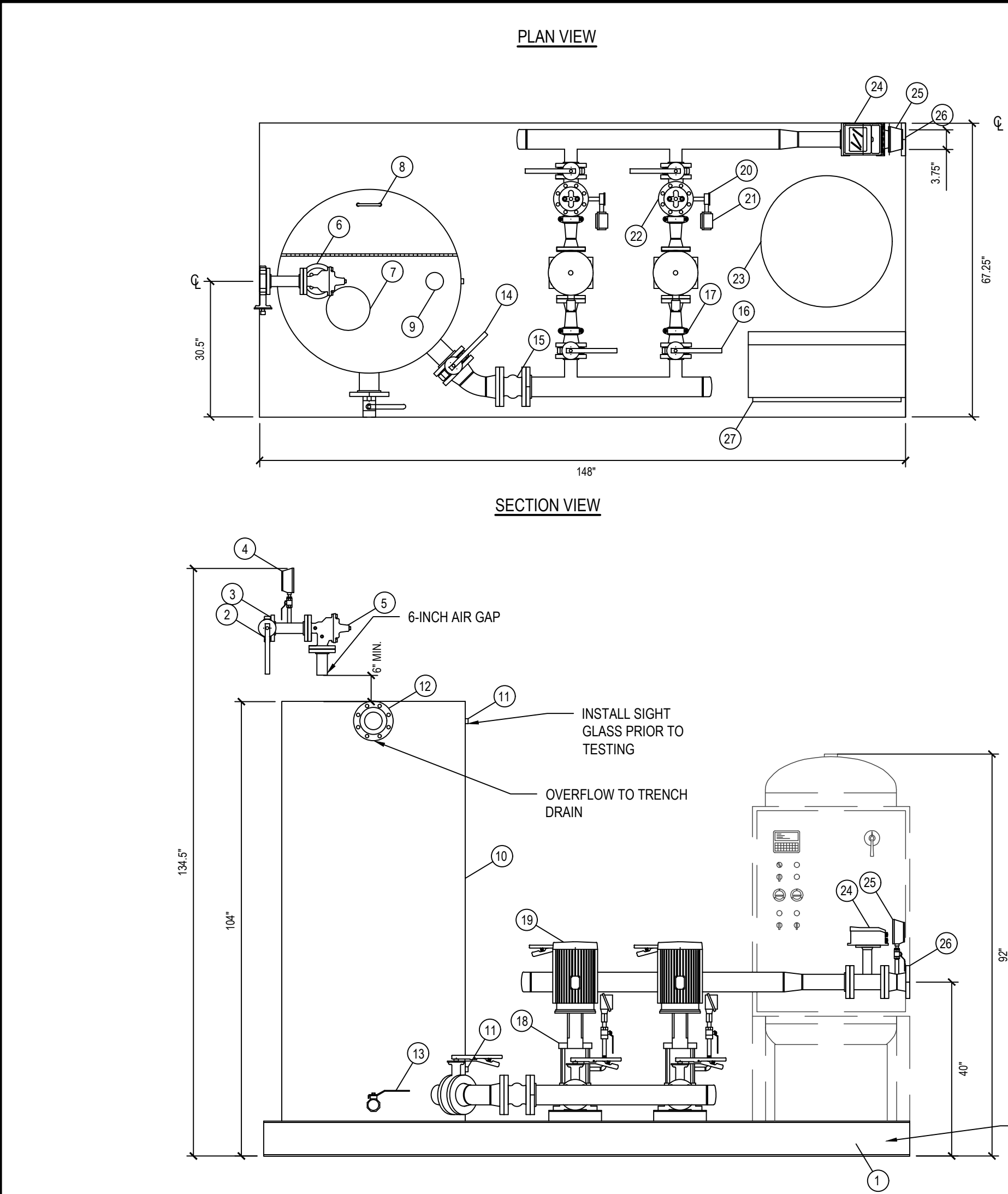


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RECORD DRAWING CERTIFICATION				
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CONTRACTOR			PROJECT COORDINATOR	
NAME _____ SIGNATURE _____ TITLE _____			NAME _____ SIGNATURE _____ TITLE _____	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK THICKENER BUILDING NEW CONSTRUCTION PLAN AND SECTIONS			CONTRACT NUMBER 16-512 SHEET NO. 12 OF 28 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-M-1049-0	SHEET NUMBER M2.1 REV. NO.



PLANT WATER EQUIPMENT SCHEDULE

ITEM	QTY	SIZE	DESCRIPTION
1	1	8"	SYSTEM SUPPORT, OPEN FRAMEWORK
2	1	2"	TANK FILL CONNECTION
3	1	2"	LUG PATTERN BUTTERFLY VALVE
4	1	4.5"	INLET PRESSURE GAUGE
5	1	2"	FLOAT OPERATED VALVE
6	1	4"	TANK OPENING FOR FILLING
7	1	10"	TANK OPENING FOR FLOAT
8	1		INSPECTION HATCH
9	1	4"	TANK OPENING FOR FLOAT SWITCHES
10	1	500GAL	AIR BREAK TANK
11	2	1/2"	SIGHT GLASS CONNECTION
12	1	4"	OVERFLOW CONNECTION
13	1	2"	DRAIN VALVE
14	1	4"	LUG PATTERN BUTTERFLY VALVE
15	1	4"	FLEX CONNECTOR
16	4	2.5"	LUG PATTERN BUTTERFLY VALVE
17	4	2.5"	GROOVED FLEX CONNECTOR
18	2	2x2	VERTICAL MULTI STAGE PUMP
19	2	7.5HP	TEFC VERTICAL C-FACE MOTOR
20	2	2.5"	PUMP DISCHARGE PRESSURE GAUGE
21	2		PUMP DISCHARGE PRESSURE SWITCH
22	2	2.5"	PRESSURE REDUCING VALVE
23	1	185GAL	200 PSI ASME BLADDER TANK
24	1	3"	MAGNETIC FLOWMETER
25	1	4.5"	SYSTEM DISCHARGE PRESSURE GAUGE
26	1	3"	SYSTEM DISCHARGE CONNECTION
27	1	30A	CONTROL PANEL
28	1		PRESSURE TRANSMITTER
29	2	2.75"	FLOAT SWITCH
30	2	2.75"	FLOAT SWITCH
31	1	1/2"	SAMPLE TAP
32	1	3/4"	HOSE BIBB

NOTES:

1. MINIMUM 42" TO ANY OBSTRUCTION REQUIRED BY NATIONAL ELECTRIC CODE IN FRONT OF CONTROL PANEL.
2. SUCTION AND DISCHARGE PIPING CONNECTIONS SHALL BE RESTRAINED AGAINST THRUST.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
4. ALL SADDLES SHALL BE DETACHABLE.
5. PIPING ON PACKAGE SYSTEM SHALL BE 304 STAINLESS STEEL.
6. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. DO NOT USE FOR CONSTRUCTION.
7. DIMENSIONAL TOLERANCE IS $\pm 1/8"$ UNLESS STATED OTHERWISE.
8. TWO OF FOUR BUTTERFLY VALVES SHIPPED LOOSE FOR FIELD INSTALLATION.
9. PRESSURE RELIEF VALVE SHIPPED LOOSE FOR FIELD INSTALLATION.
10. SKID SYSTEM SHALL BE TESTED AT FACTORY. SYSTEM COMPONENTS TO BE DISASSEMBLED AS NECESSARY AND SHIPPED TO THE PROJECT SITE FOR REASSEMBLY BY THE CONTRACTOR PRIOR TO FINAL FIELD TESTING.
11. FOUR EYE BOLTS PROVIDED IN THE SKID PERIPHERY NOT SHOWN FOR CLARITY. REMOVE EYE BOLTS AFTER SYSTEM SET IN PLACE.
12. PROVIDE $3/4"$ SCH80 PVC PIPING FROM THERMAL PURGE TO TRENCH DRAIN.

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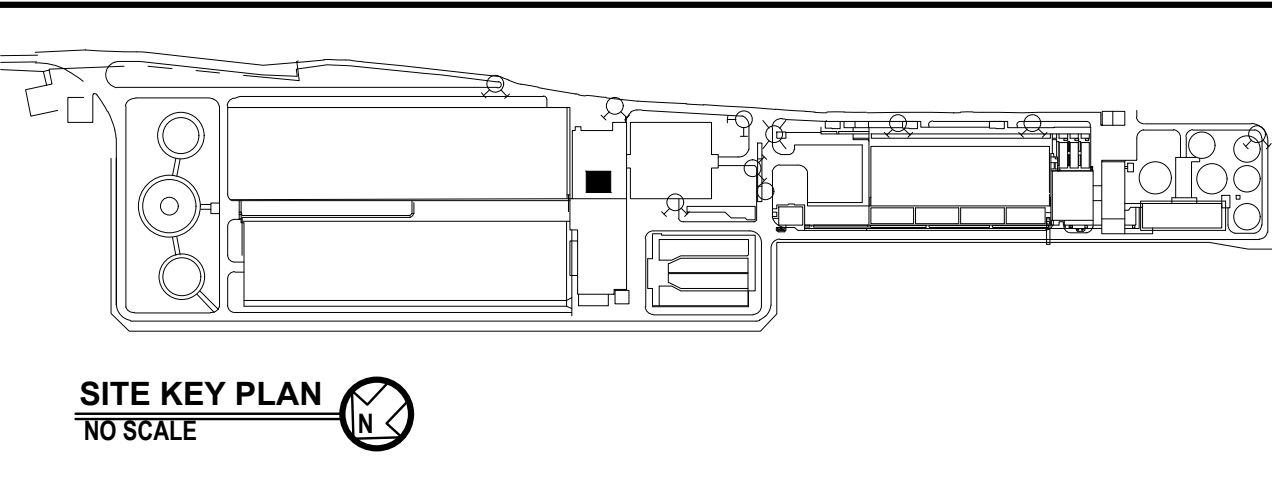
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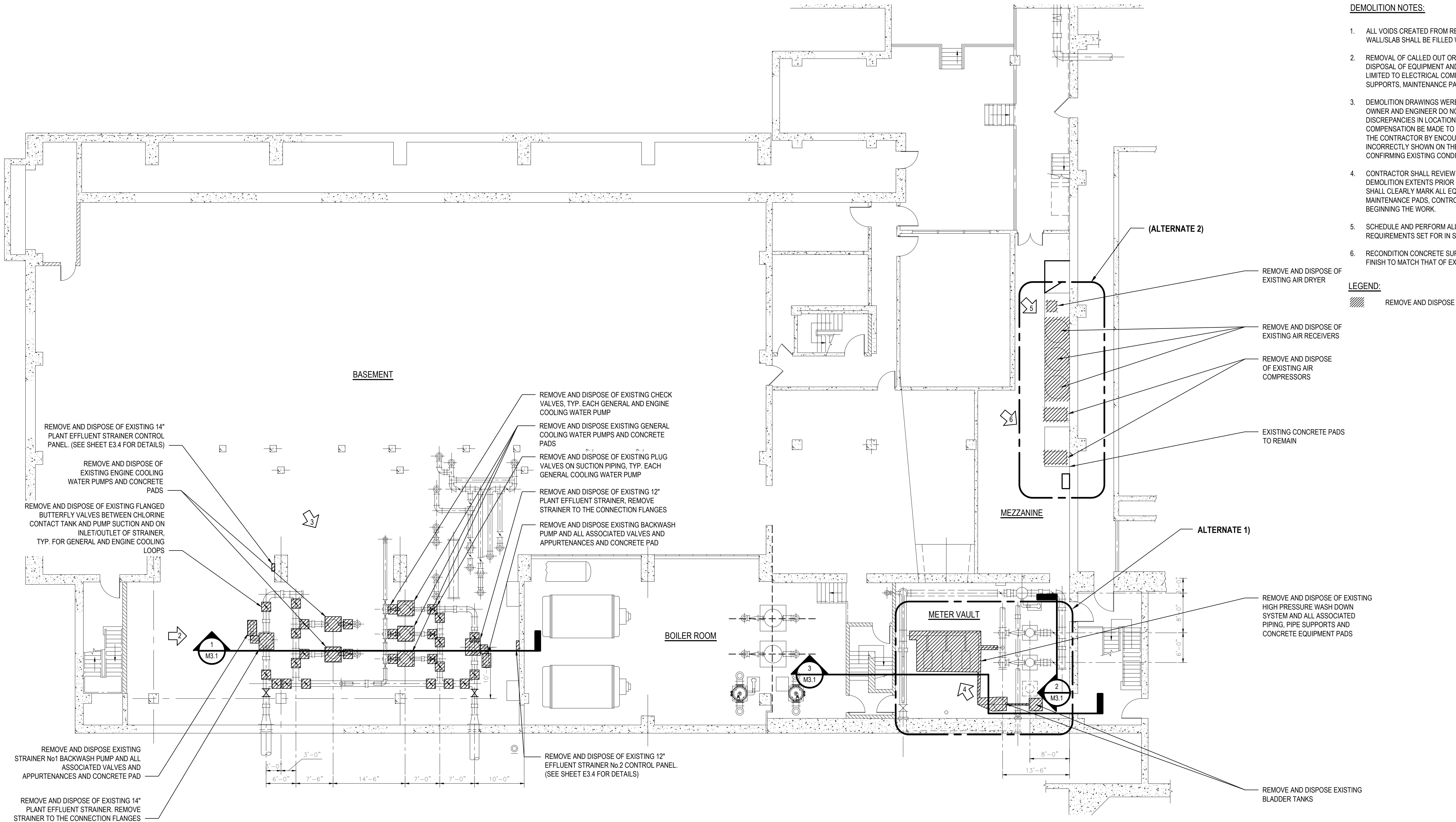
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RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR			PROJECT COORDINATOR	
NAME _____ SIGNATURE _____ TITLE _____			NAME _____ SIGNATURE _____ TITLE _____	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			CONTRACT NUMBER 16-512	SHEET NUMBER M2.2
DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK			SHEET NO. 13 OF 28	
PLANT WATER SYSTEM MECHANICAL DETAILS AND SECTIONS			SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-M-1050-0	REV. NO.



- DEMOLITION NOTES:**
- ALL VOIDS CREATED FROM REMOVAL OF EXISTING PIPING OR EQUIPMENT THROUGH A WALL/SLAB SHALL BE FILLED WITH NON-SHRINK GROUT UNLESS OTHERWISE NOTED.
 - REMOVAL OF CALLED OUT OR HATCHED EQUIPMENT SHALL INCLUDE REMOVAL AND DISPOSAL OF EQUIPMENT AND ALL ASSOCIATED ACCESSORIES INCLUDING, BUT NOT LIMITED TO ELECTRICAL COMPONENTS, POWER CONNECTIONS, PIPING, VALVES, FITTINGS, SUPPORTS, MAINTENANCE PADS, AND CONTROL; EQUIPMENT UNLESS OTHERWISE NOTED.
 - DEMOLITION DRAWINGS WERE OBTAINED FROM RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS, NOR WILL ANY COMPENSATION BE MADE TO THE CONTRACTOR FOR ANY INCONVENIENCES CAUSED BY THE CONTRACTOR BY ENCOUNTERING THE AFOREMENTIONED DISCREPANCIES WHICH ARE INCORRECTLY SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK.
 - CONTRACTOR SHALL REVIEW ALL DEMOLITION WITH THE OWNER/ENGINEER TO CONFIRM DEMOLITION EXTENTS PRIOR TO BEGINNING THE WORK OF THIS PHASE. CONTRACTOR SHALL CLEARLY MARK ALL EQUIPMENT PIPING, VALVES, FITTINGS, SUPPORTS, MAINTENANCE PADS, CONTROL EQUIPMENT, ETC. SCHEDULED FOR DEMOLITION PRIOR TO BEGINNING THE WORK.
 - SCHEDULE AND PERFORM ALL DEMOLITION TO STRICTLY ADHERE TO ALL THE REQUIREMENTS SET FOR IN SPECIFICATION SECTION 011400 - WORK RESTRICTIONS.
 - RECONDITION CONCRETE SURFACE UNDER REMOVED PADS TO A SMOOTH CONCRETE FINISH TO MATCH THAT OF EXISTING PADS.

LEGEND:
REMOVE AND DISPOSE

1 Blower and Administration Building Removal Plan
SCALE: 3/32"=1'-0"



2 Plant Effluent Strainer
SCALE: NTS



3 Cooling Water Pumps
SCALE: NTS



4 High Pressure Washing Pumps
SCALE: NTS



5 Air Receivers And Air Dryer
SCALE: NTS



6 Air Compressors
SCALE: NTS

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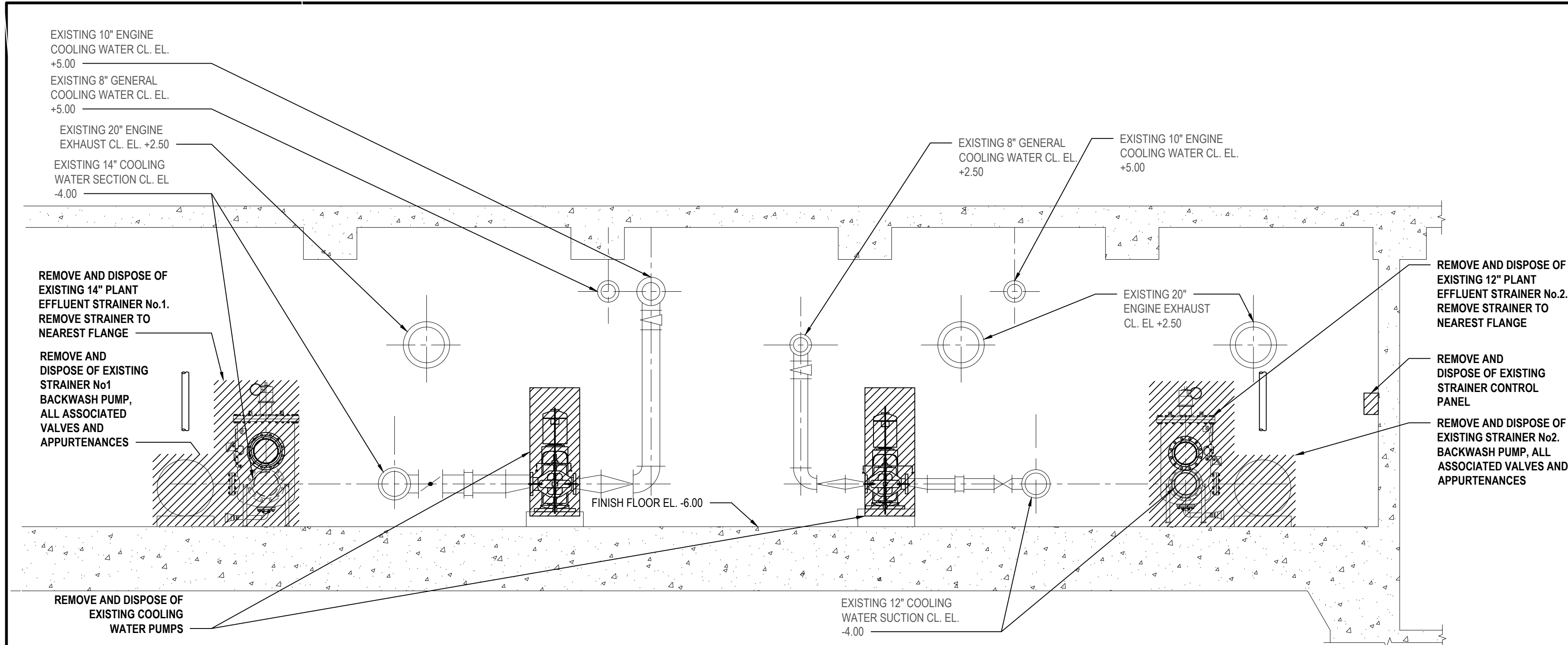
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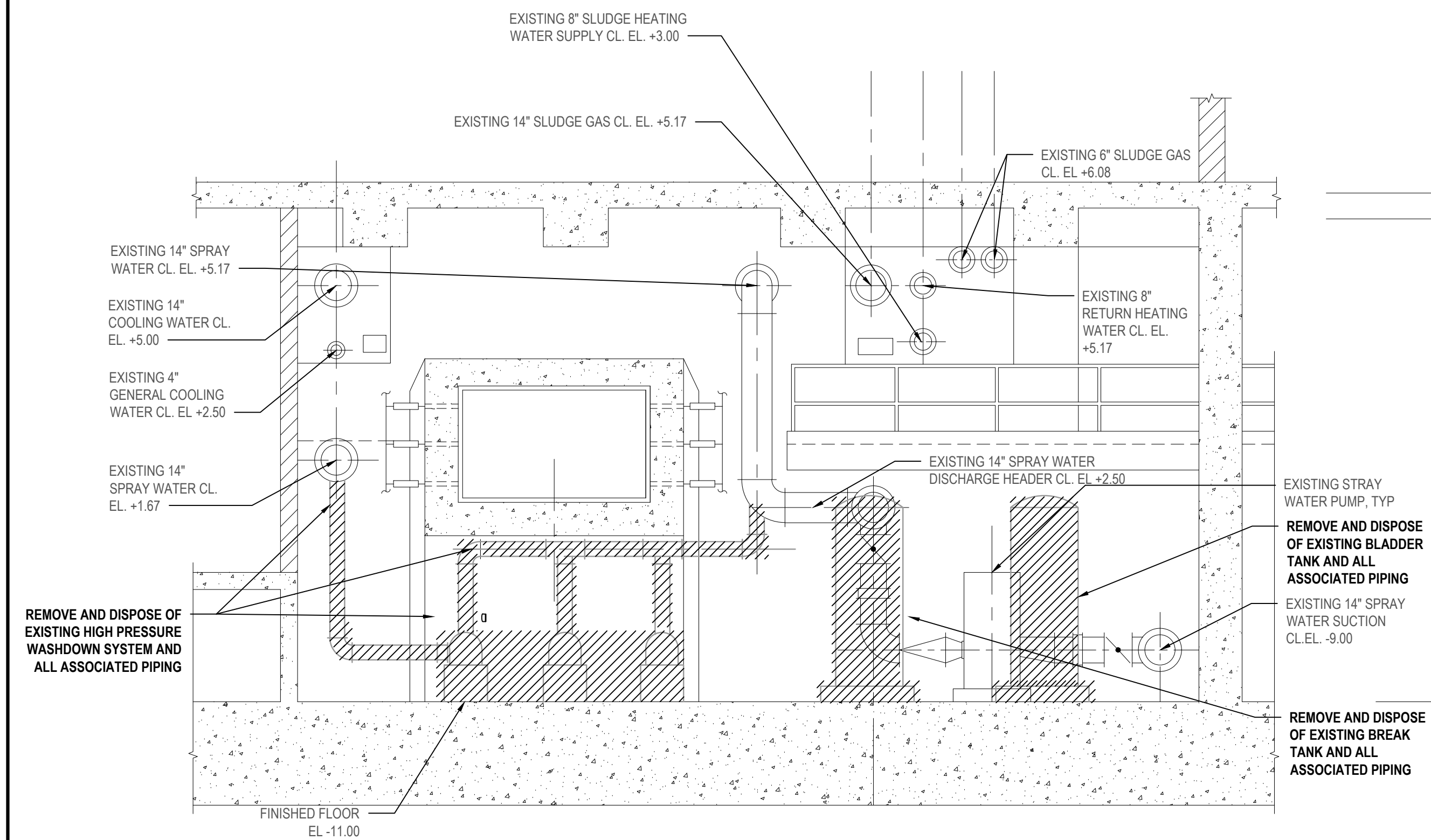
SITE KEY PLAN
NO SCALE

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CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	
SIGNATURE		SIGNATURE		
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER		SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		16-512		M3.0
DIVISION OF ENGINEERING		SHEET NO. 14 OF 28		
SECONDARY SYSTEM REHABILITATION		SCALE: AS SHOWN		
YONKERS JOINT WASTEWATER TREATMENT PLANT		DATE: MARCH 2022		
YONKERS, NEW YORK		DPW FILE NO.		REV. NO.
BLOWER AND ADMINISTRATION BUILDING REMOVALS PLAN		200-00-M-1051-0		

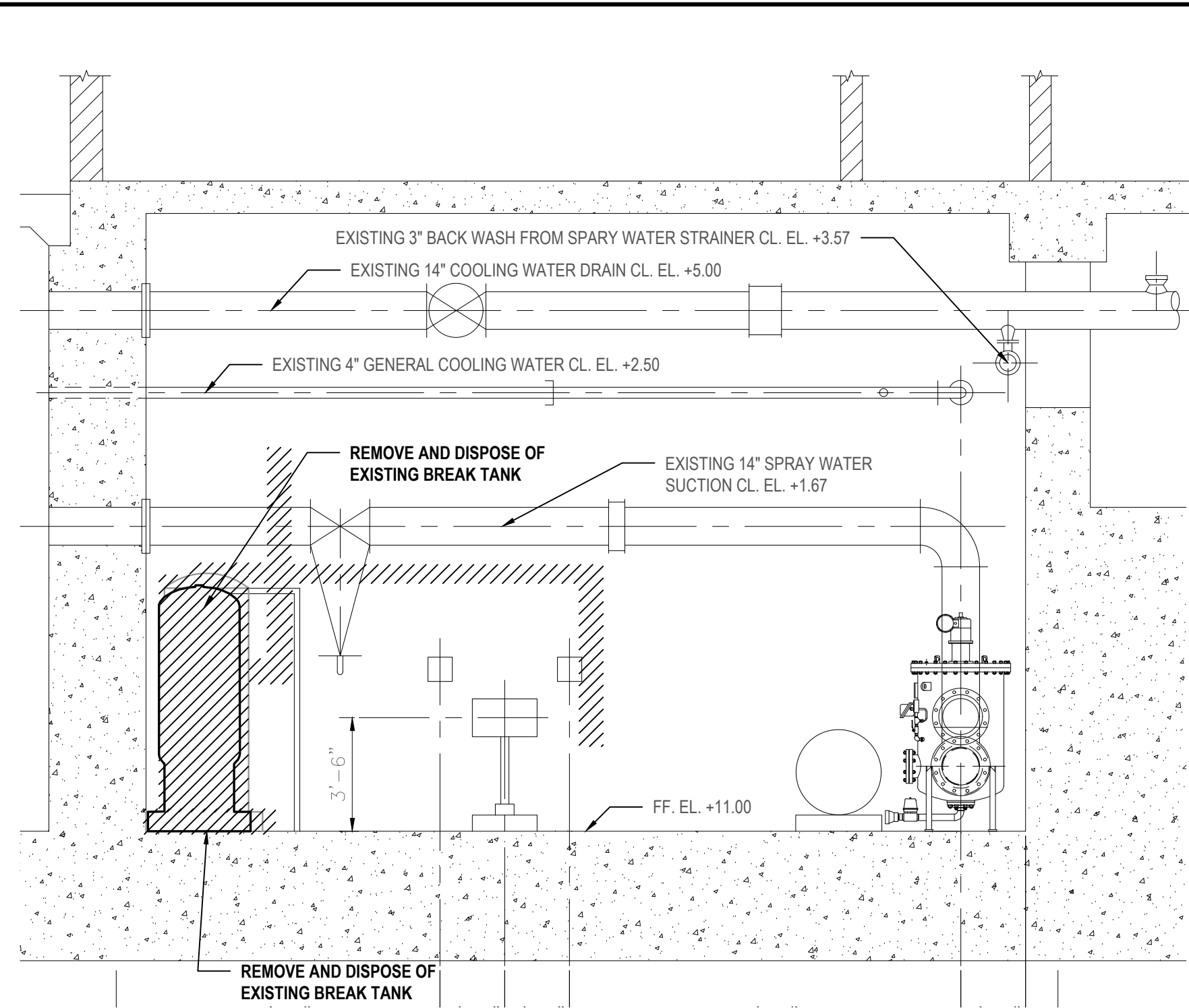
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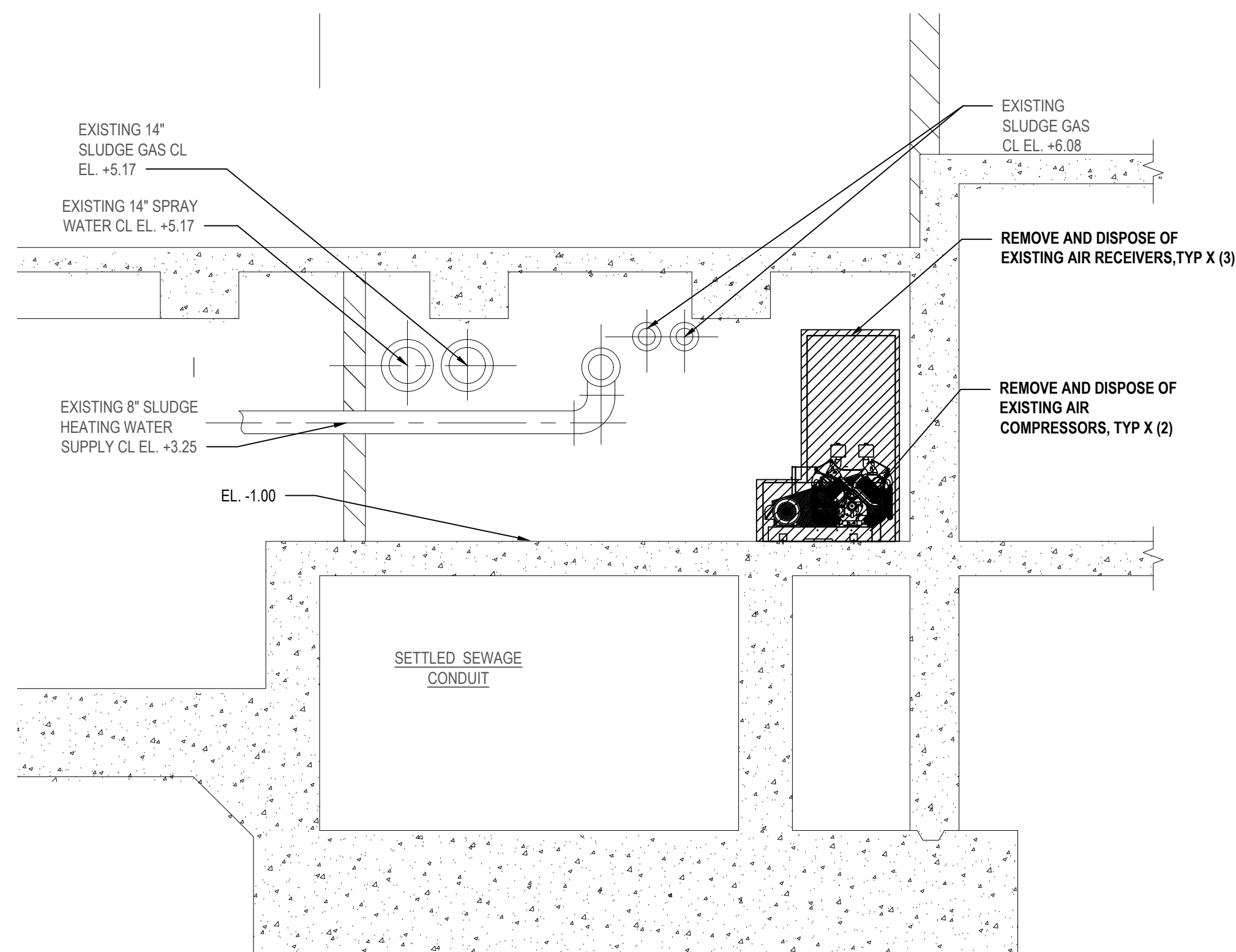
1 Plant Effluent Removals Section
SCALE: 1/4"=1'-0"



3 High Pressure Wash System Removal Section (Alternate 1)
SCALE: 1/4"=1'-0"



2 High Pressure Wash System Removals Sections (Alternate 1)
SCALE: 1/4"=1'-0"



4 Air Compressor System Removals Section (Alternate 2)
SCALE: 1/4"=1'-0"

DEMOLITION NOTES:

- ALL VOIDS CREATED FROM REMOVAL OF EXISTING PIPING OR EQUIPMENT THROUGH A WALL/SLAB SHALL BE FILLED WITH NON-SHRINK GROUT UNLESS OTHERWISE NOTED.
- REMOVAL OF CALLED OUT OR HATCHED EQUIPMENT SHALL INCLUDE REMOVAL AND DISPOSAL OF EQUIPMENT AND ALL ASSOCIATED ACCESSORIES INCLUDING, BUT NOT LIMITED TO, PIPING, VALVES, FITTINGS, SUPPORTS, MAINTENANCE PADS, AND CONTROL EQUIPMENT UNLESS OTHERWISE NOTED.
- DEMOLITION DRAWINGS WERE OBTAINED FROM RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS, NOR WILL ANY COMPENSATION BE MADE TO THE CONTRACTOR FOR ANY INCONVENIENCES CAUSED BY THE CONTRACTOR BY ENCOUNTERING THE AFOREMENTIONED DISCREPANCIES WHICH ARE INCORRECTLY SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK.
- CONTRACTOR SHALL REVIEW ALL DEMOLITION WITH THE OWNER/ENGINEER TO CONFIRM DEMOLITION EXTENTS PRIOR TO BEGINNING THE WORK OF THIS PHASE. CONTRACTOR SHALL CLEARLY MARK ALL EQUIPMENT PIPING, VALVES, FITTINGS, SUPPORTS, MAINTENANCE PADS, CONTROL EQUIPMENT, ETC. SCHEDULED FOR DEMOLITION PRIOR TO BEGINNING THE WORK.
- SCHEDULE AND PERFORM ALL DEMOLITION TO STRICTLY ADHERE TO ALL THE REQUIREMENTS SET FORTH IN SPECIFICATION SECTION 011400 - WORK RESTRICTIONS.
- RECONDITION CONCRETE SURFACE UNDER REMOVED PADS TO A SMOOTH CONCRETE FINISH TO MATCH THAT OF EXISTING PADS.
- PROVIDE TEMPORARY BLIND FLANGES ON PIPING DURING DEMOLITION AND REPLACEMENT OF VALVES AS NECESSARY TO ENSURE NO LEAKAGE.

LEGEND:

REMOVE AND DISPOSE

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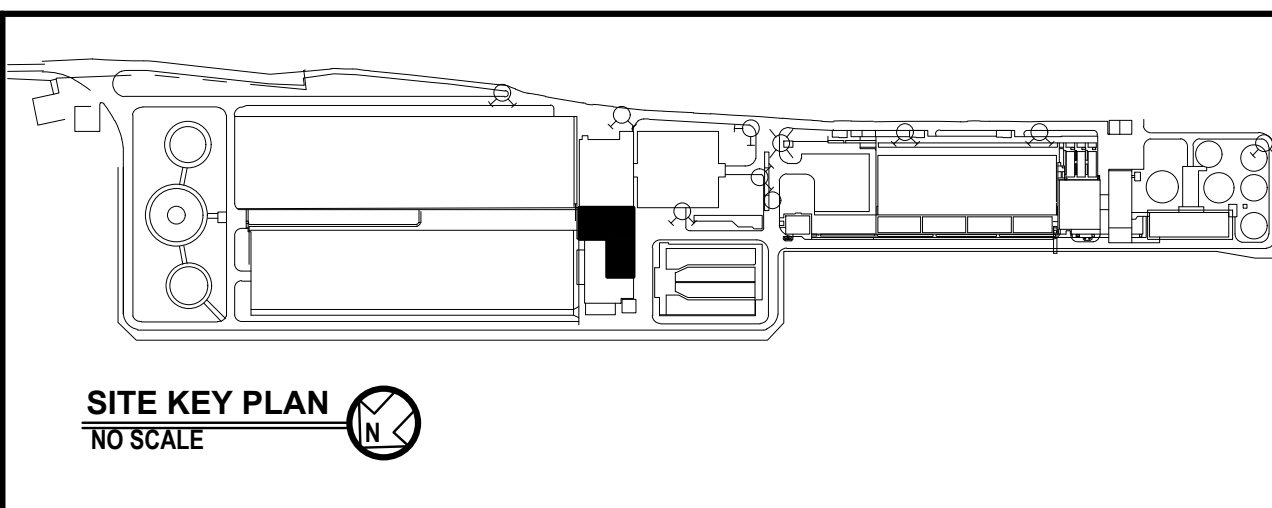
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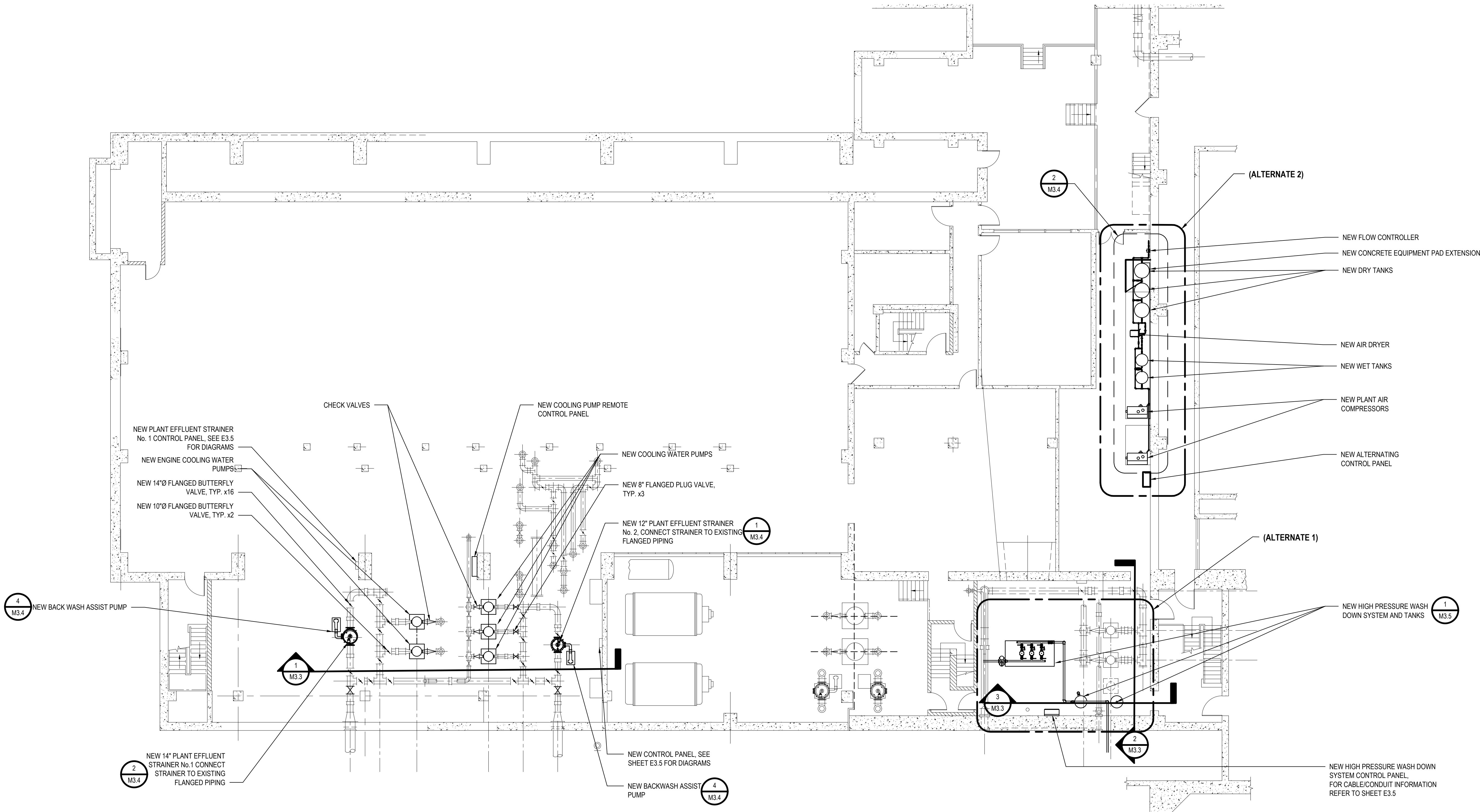
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RECORD DRAWING CERTIFICATION				
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CONTRACTOR			PROJECT COORDINATOR	
NAME SIGNATURE TITLE			NAME SIGNATURE TITLE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK BLOWER AND ADMINISTRATION BUILDING REMOVALS SECTIONS AND DETAILS			CONTRACT NUMBER 16-512 SHEET NO. 15 OF 28	SHEET NUMBER M3.1 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-M-1052-0 REV. NO.

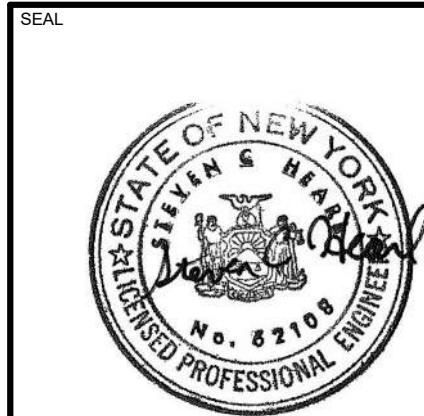
- NOTES:
1. NEW PROCESS PIPING SHALL BE PAINTED PER SCHEDULE ON M0.0.



1 Blower And Administration Building Plan View

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

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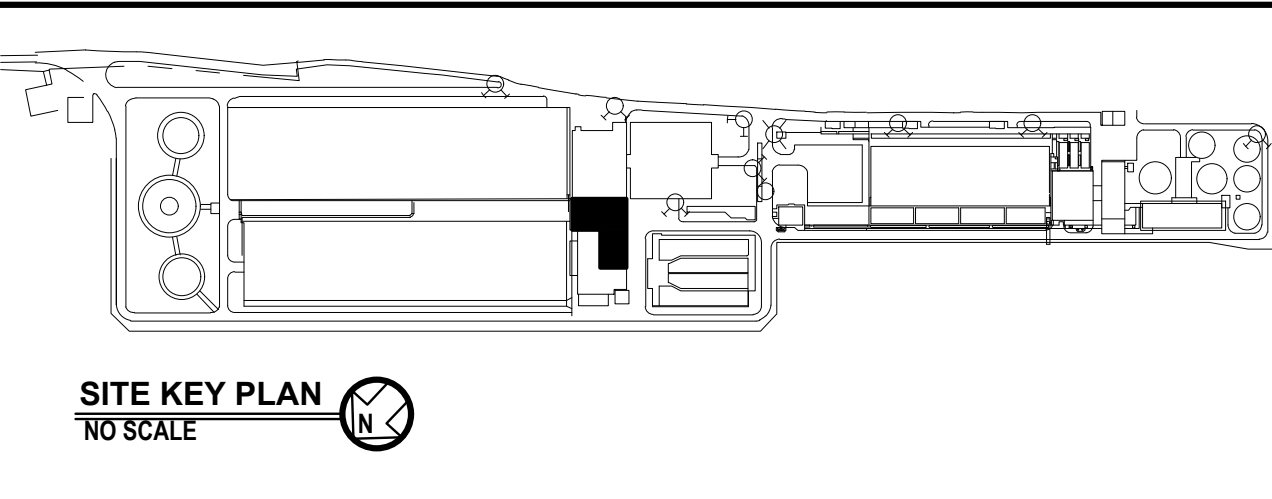
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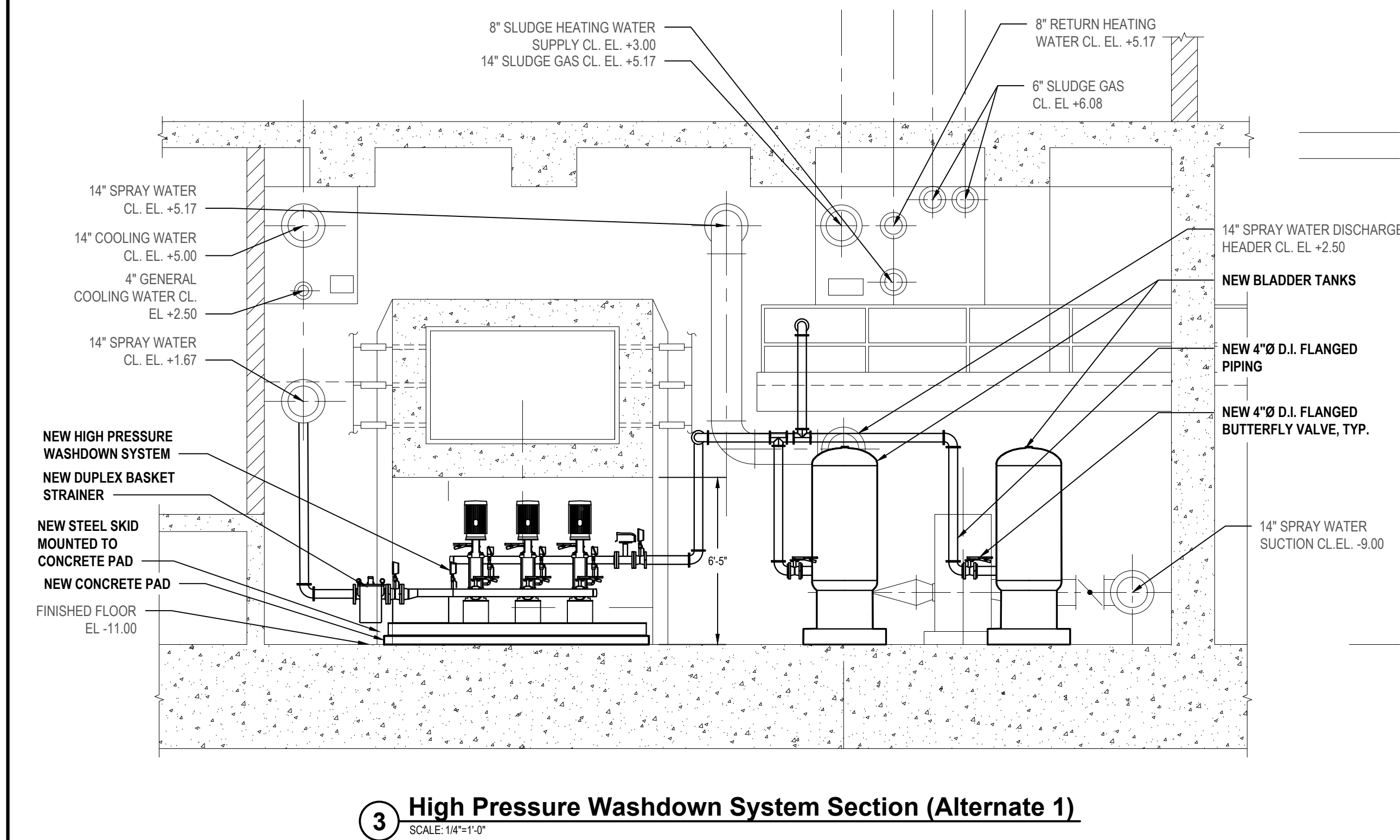
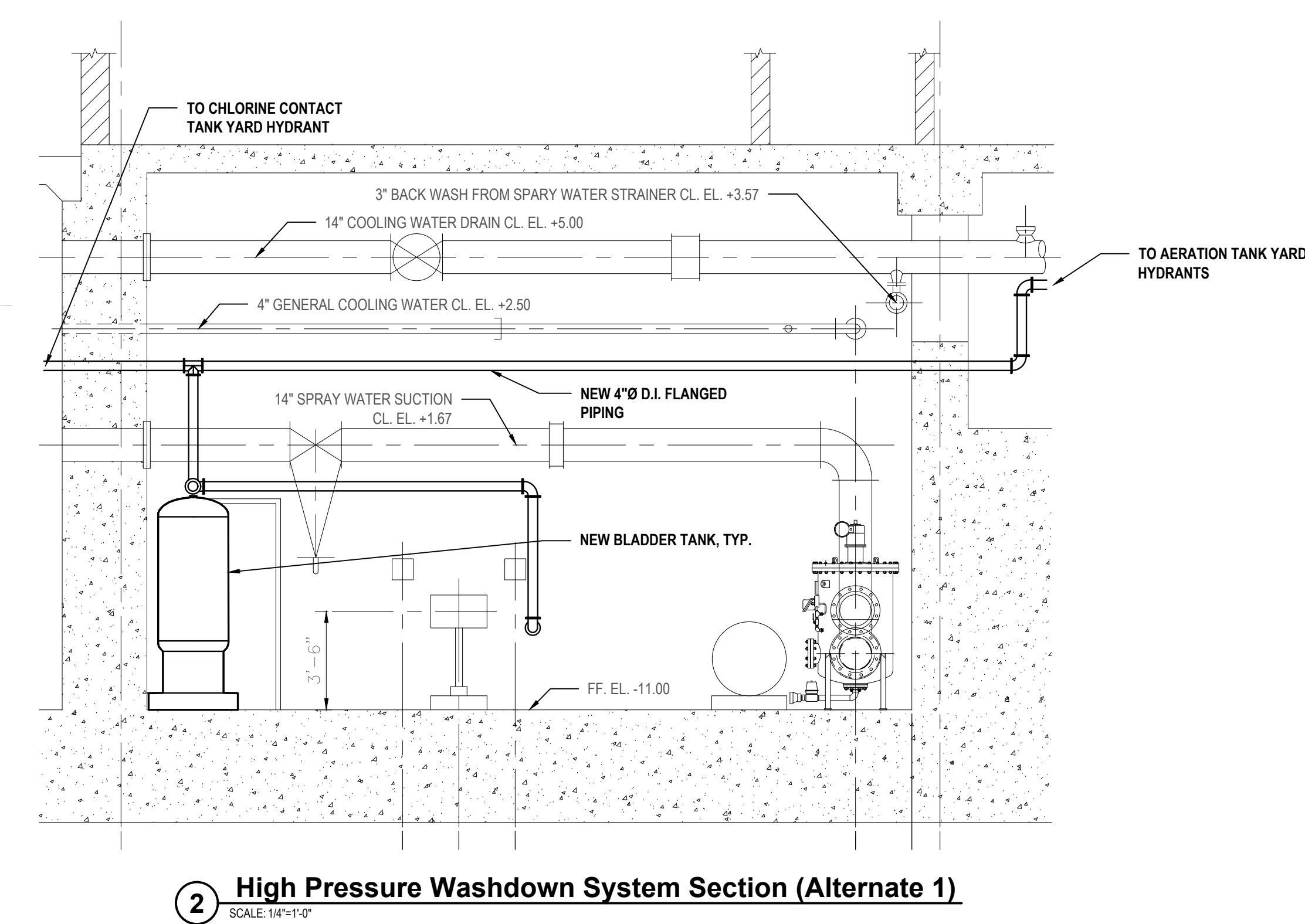
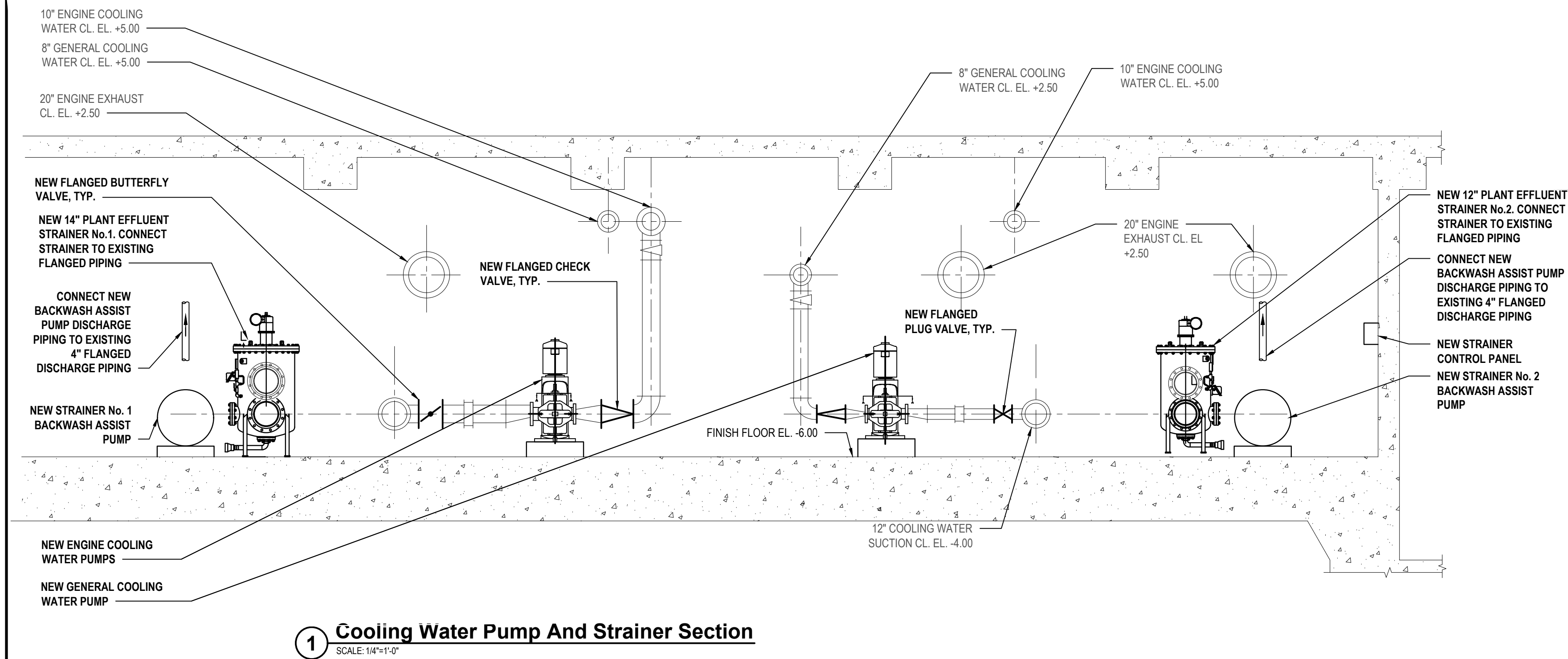
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CONTRACTOR		PROJECT COORDINATOR		
NAME		NAME		
SIGNATURE		SIGNATURE		
TITLE		TITLE		
DATE		DATE		
WESTCHESTER COUNTY, NEW YORK				CONTRACT NUMBER 16-512
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				SHEET NUMBER M3.2
DIVISION OF ENGINEERING				SHEET NO. 16 OF 28
SECONDARY SYSTEM REHABILITATION				SCALE: AS SHOWN
YONKERS JOINT WASTEWATER TREATMENT PLANT				DATE: MARCH 2022
YONKERS, NEW YORK				DPW FILE NO.
BLOWER AND ADMINISTRATION BUILDING NEW CONSTRUCTION				200-00-M-1053-0
				REV. NO.



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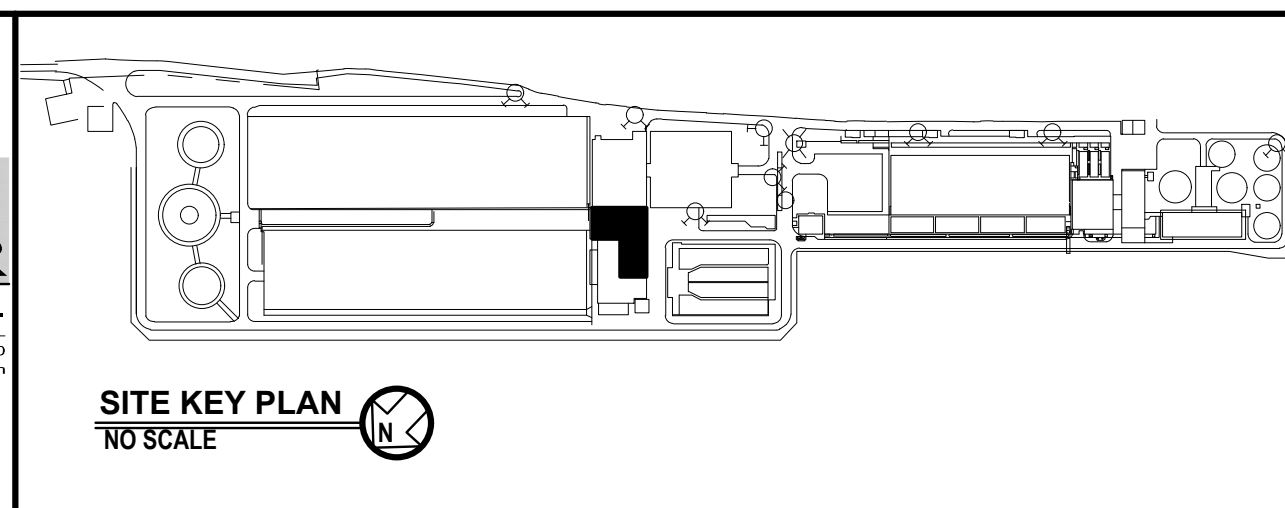
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR			PROJECT COORDINATOR	
NAME _____ SIGNATURE _____ TITLE _____			NAME _____ SIGNATURE _____ TITLE _____	
DATE _____			DATE _____	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			CONTRACT NUMBER 16-512 SHEET NUMBER M3.3	
DIVISION OF ENGINEERING			SHEET NO. 17 OF 28	
SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK			SCALE: AS SHOWN DATE: MARCH 2022	
BLOWER AND ADMINISTRATION BUILDING NEW CONSTRUCTION SECTIONS AND DETAILS			DPW FILE NO. 200-00-M-1054-0 REV. NO.	



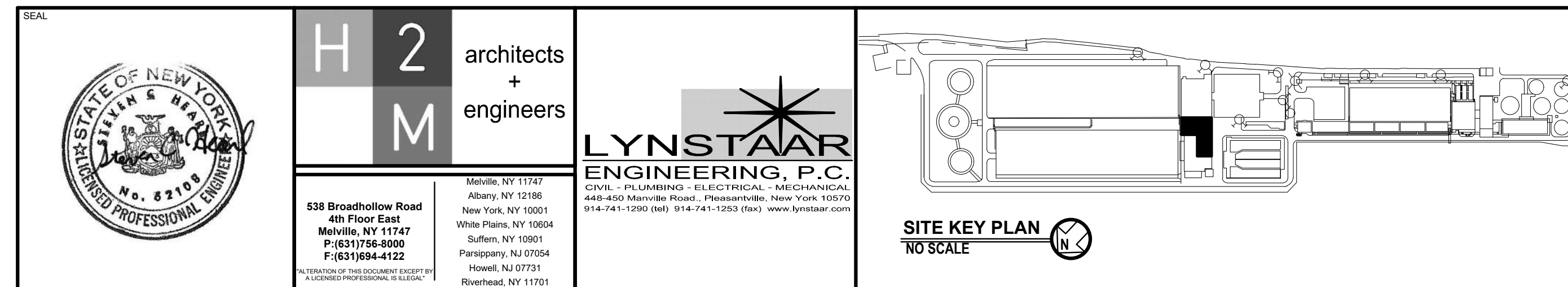
1. PROVIDE 2" SCH80 PVC PIPING WITH BALL VALVE ON STRAINER DRAIN
PIPED TO ADJACENT FLOOR DRAIN.
2. GENERAL ORIENTATION SHOWN IN THIS DETAIL. COORDINATE
ACTUAL ORIENTATION WITH M3.2.



1. PROVIDE 3" SCH80 PVC PIPING WITH BALL VALVE ON STRAINER DRAIN, PIPED TO ADJACENT FLOOR DRAIN.
2. GENERAL ORIENTATION SHOWN IN THIS DETAIL. COORDINATE ACTUAL ORIENTATION WITH M3.2.

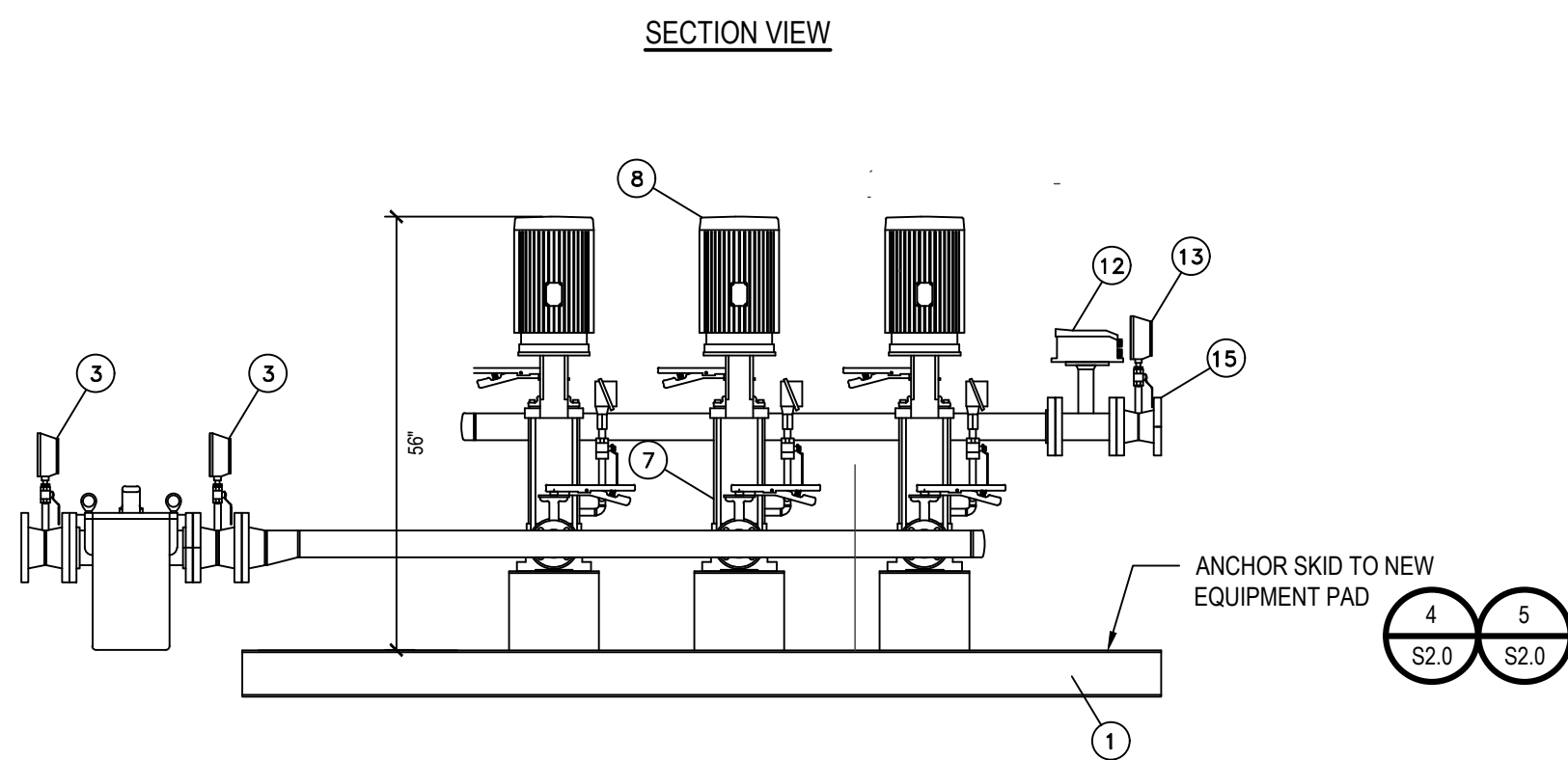
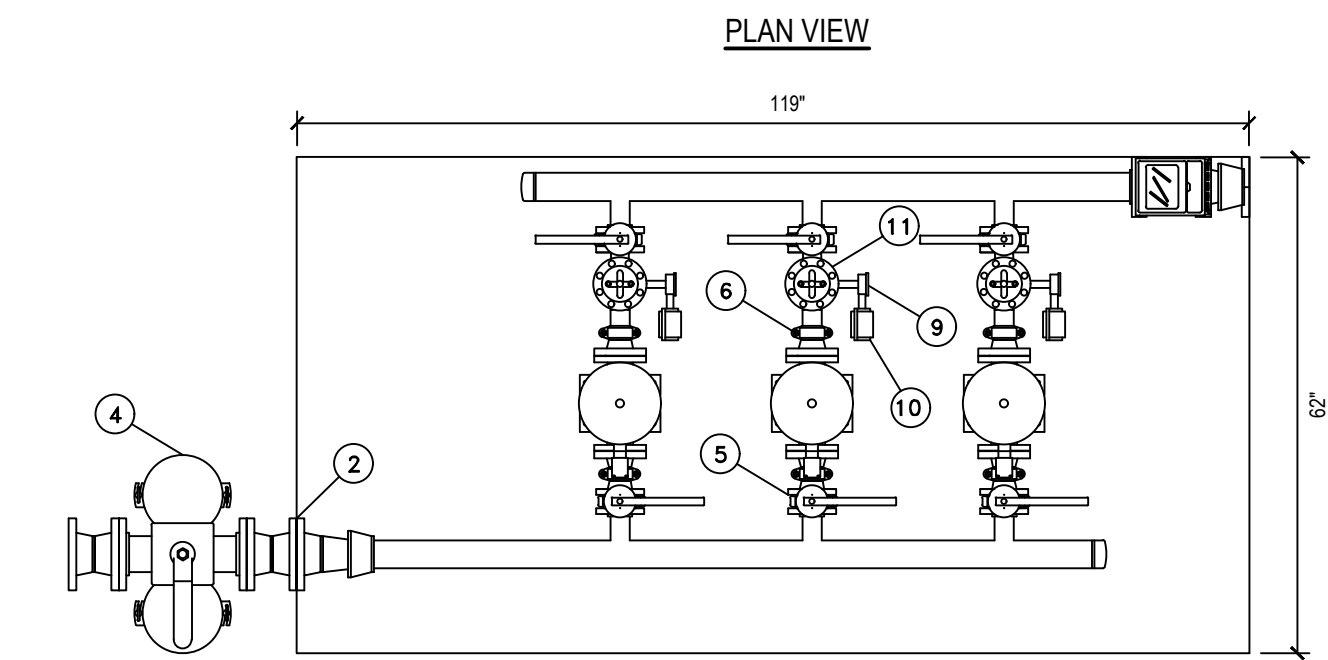
[illegible]

1. PROVIDE 4" FLANGED SWING CHECK VALVE WITH NECESSARY REDUCING FITTINGS TO TRANSITION FROM 2"NPT TO 4" FLANGED PIPING, HORIZONTALLY MOUNTED ON DISCHARGE PIPING.



REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	
RECORD DRAWING CERTIFICATION					
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CONTRACTOR			PROJECT COORDINATOR		
NAME _____			NAME _____		
SIGNATURE _____			SIGNATURE _____		
TITLE _____ DATE _____			TITLE _____ DATE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK			CONTRACT NUMBER 16-512		SHEET NUMBER M3.4
			SHEET NO. 18 OF 28		
BLOWER AND ADMINISTRATION BUILDING NEW CONSTRUCTION PARTIAL PLANS			SCALE: AS SHOWN DATE: MARCH 2022		REV. NO.
			DPW FILE NO. 200-00-M-1055-0		

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HIGH PRESSURE WASH WATER EQUIPMENT SCHEDULE

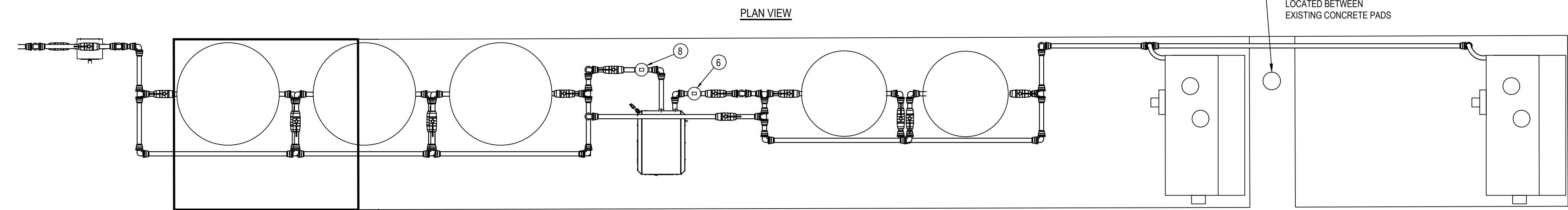
ITEM	QTY	SIZE	DESCRIPTION
1	1	6"	SYSTEM SUPPORT, OPEN FRAMEWORK
2	1	4"	SYSTEM SUCTION CONNECTION
3	2	4.5"	SYSTEM SUCTION PRESSURE GAUGES
4	1	4"	DUPLEX BASKET STRAINER
5	6	2"	LUG PATTERN BUTTERFLY VALVE
6	6	2"	GROOVED FLEX CONNECTOR
7	3	2x2	VERTICAL MULTI STAGE PUMP
8	3	10 HP	TEFC PREM EFF VERTICAL C-FACE MOTOR
9	3	2.5"	PUMP DISCHARGE PRESSURE GAUGE
10	3		PUMP DISCHARGE PRESSURE SWITCH
11	3	2"	PRESSURE REDUCING VALVE
12	1	3"	MAGNETIC FLOWMETER
13	1	4.5"	SYSTEM DISCHARGE PRESSURE GAUGE
14	2	185GAL	200 PSI ASME BLADDER TANK
15	1	3"	SYSTEM DISCHARGE CONNECTION
16	1	60A	CONTROL PANEL
17	2		PRESSURE TRANSMITTER
18	1	1/2"	SAMPLE TAP
19	1	3/4"	HOSE BIBB

HIGH PRESSURE WASHDOWN SYSTEM NOTES:

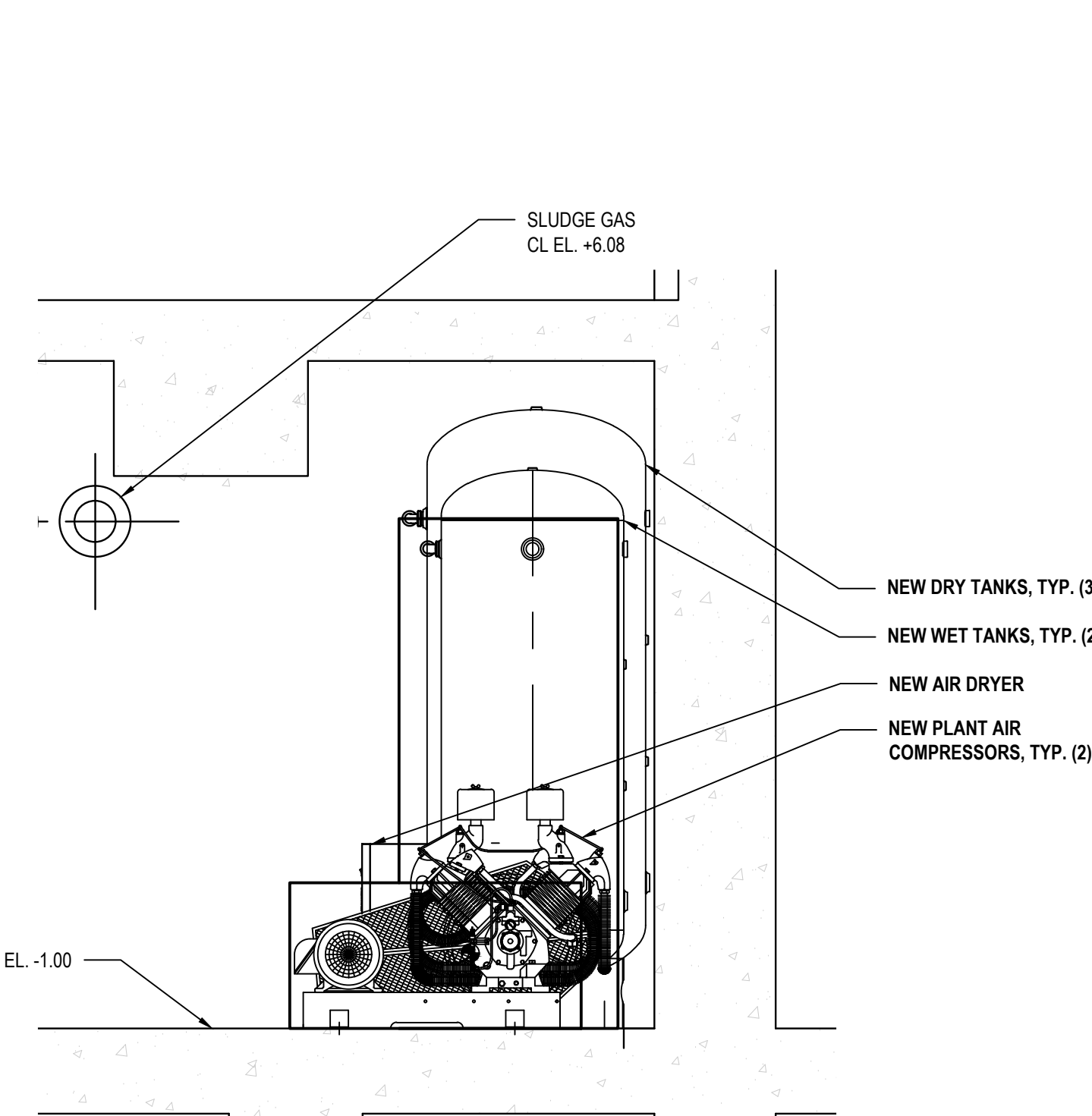
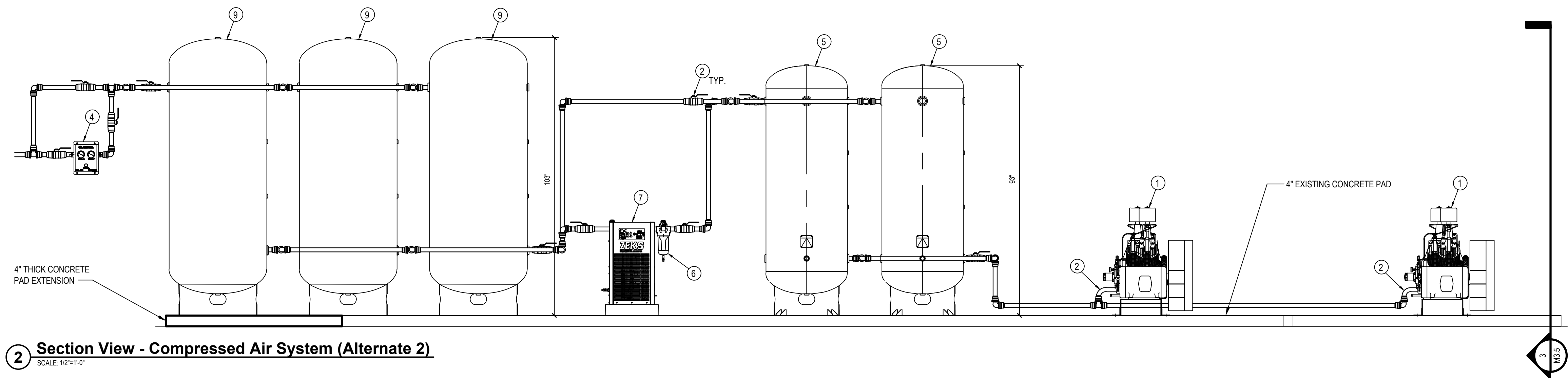
1. MINIMUM 42" TO ANY OBSTRUCTION REQUIRED BY NATIONAL ELECTRIC CODE IN FRONT OF CONTROL PANEL.
2. SUCTION AND DISCHARGE PIPING CONNECTIONS SHALL BE RESTRAINED AGAINST THRUST.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
4. ALL SADDLES SHALL BE DETACHABLE.
5. PIPING ON SKID SHALL BE 304 STAINLESS STEEL.
6. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY, DO NOT USE FOR CONSTRUCTION.
7. DIMENSIONAL TOLERANCE IS $\pm 1/8"$ UNLESS STATED OTHERWISE.
8. AFTER TESTING AT FACTORY, SHIP MOTORS LOOSE FOR FIELD INSTALLATION.
9. SKID SYSTEM SHALL BE TESTED AT FACTORY. SYSTEM COMPONENTS TO BE DISASSEMBLED AS NECESSARY AND SHIPPED TO THE PROJECT SITE FOR REASSEMBLY BY THE CONTRACTOR PRIOR TO FINAL FIELD TESTING.
10. FOUR EYE BOLTS PROVIDED IN THE SKID PERIPHERY NOT SHOWN FOR CLARITY. REMOVE EYE BOLTS AFTER SYSTEM SET IN PLACE.
11. PROVIDE $\frac{1}{2}$ " SCH80 PVC PIPING FROM THERMAL PURGE TO TRENCH DRAIN.
12. DUPLEX STRAINER AND SYSTEM SUCTION PRESSURE GAUGES AND FITTINGS TO BE PROVIDED BY THE CONTRACTOR OUTSIDE OF THE SCOPE OF THE SKID SUPPLIER.

1 High Pressure Wash Water System (Alternate 1)

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



SECTION VIEW



3 Section View- Air Compressor (Alternate 2)

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

2 Section View - Compressed Air System (Alternate 2)

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

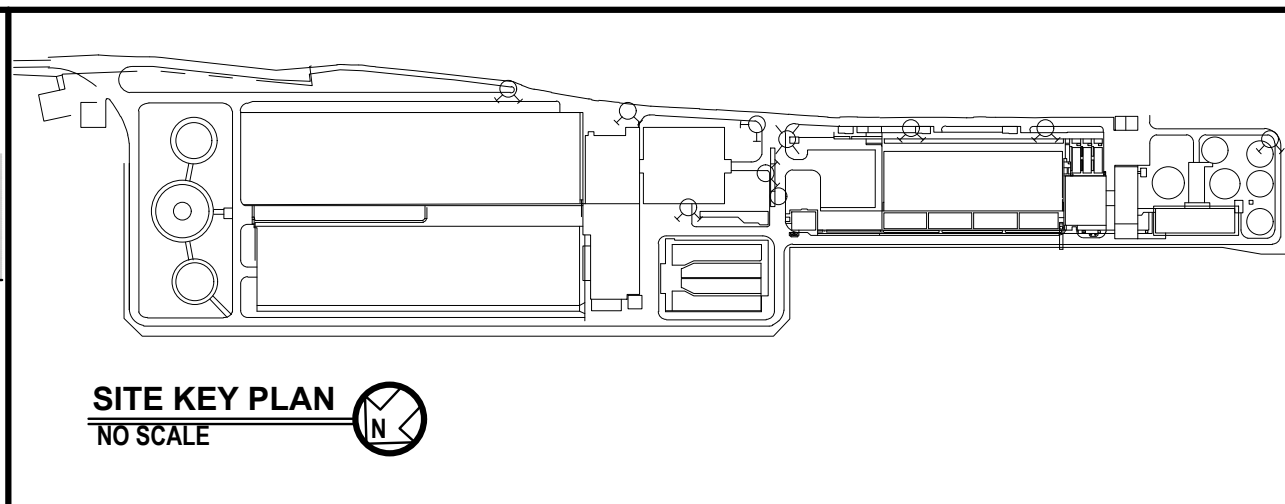
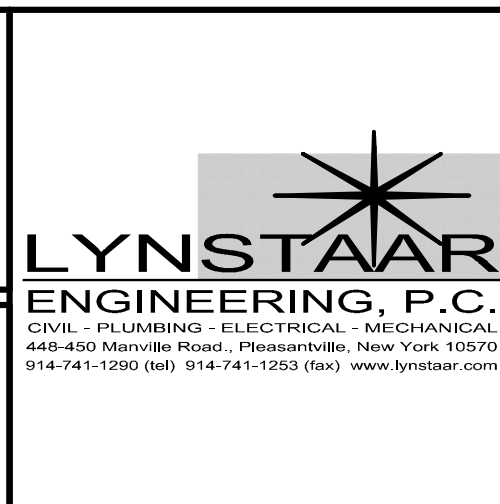
COMPRESSED AIR EQUIPMENT SCHEDULE

ITEM	QTY	SIZE	DESCRIPTION
1	2	25kW	AIR COMPRESSOR WITH AFTERCOOLER
2	16	1.5"	BALL ISOLATION VALVE
3	2	1.25"	FLEX CONNECTOR
4	1		FLOW CONTROLLER
5	2	250GAL	WET TANK WITH SKIRT
6	1	1 μ m	COALESCING PREFILTER
7	1	115V	AIR DRYER
8	1	.01 μ m	HIGH EFFICIENCY COALESCER
9	3	400GAL	DRY TANK WITH SKIRT
10	5		ROBO CONDENSATE DRAIN
11	5	0.5"	SAFETY RELIEF VALVE
12	5	3.5"	PRESSURE GAUGE

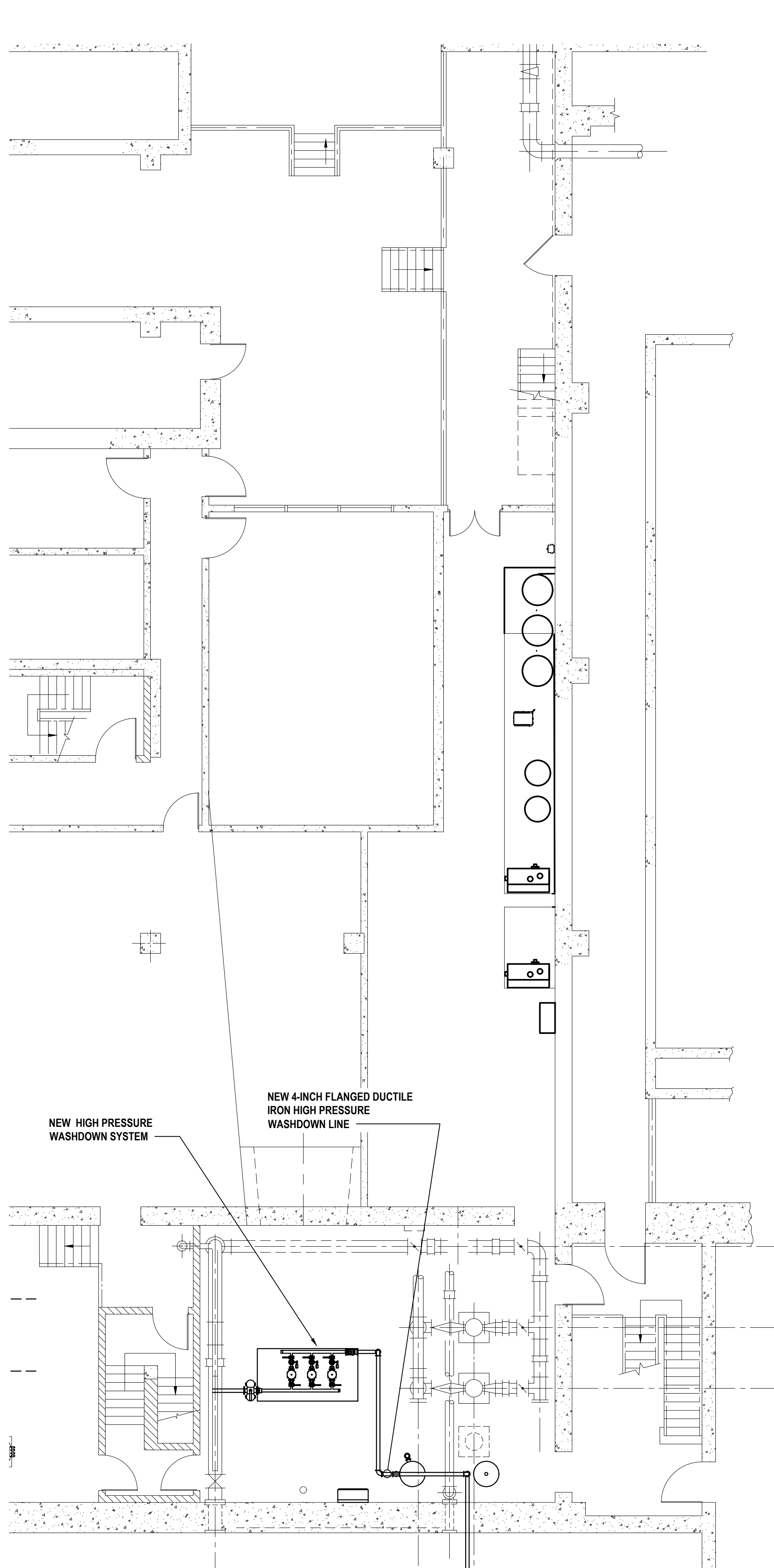
COMPRESSED AIR SYSTEM NOTES:

1. NEW COMPRESSED AIR PIPING SHALL BE BLUE ALUMINUM PIPING.
2. EACH COMPRESSOR SHALL HAVE FLEXIBLE PIPING FROM THE UNIT TO THE COMMON HEADER PIPING.
3. PROVIDE SCH40 GALVANIZED STEEL PIPING FROM EACH TANK'S ROBO CONDENSATE DRAIN TO COMMON CONDENSATE DRAIN HEADER TO CONVEY CONDENSATE TO THE EXISTING FLOOR DRAIN.
4. FIELD LOCATE PRESSURE GAUGES PER SYSTEM SUPPLIER RECOMMENDATIONS.

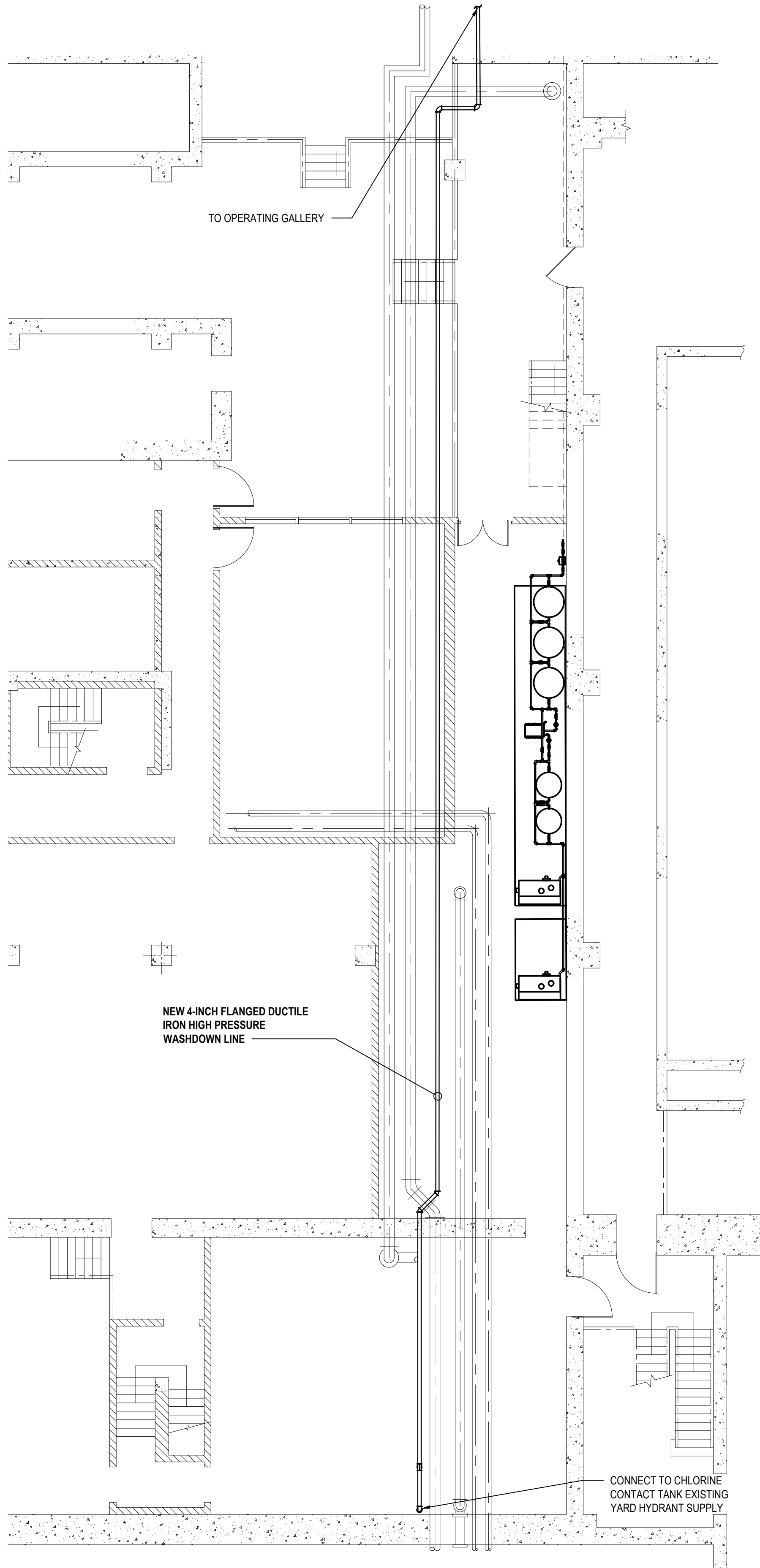
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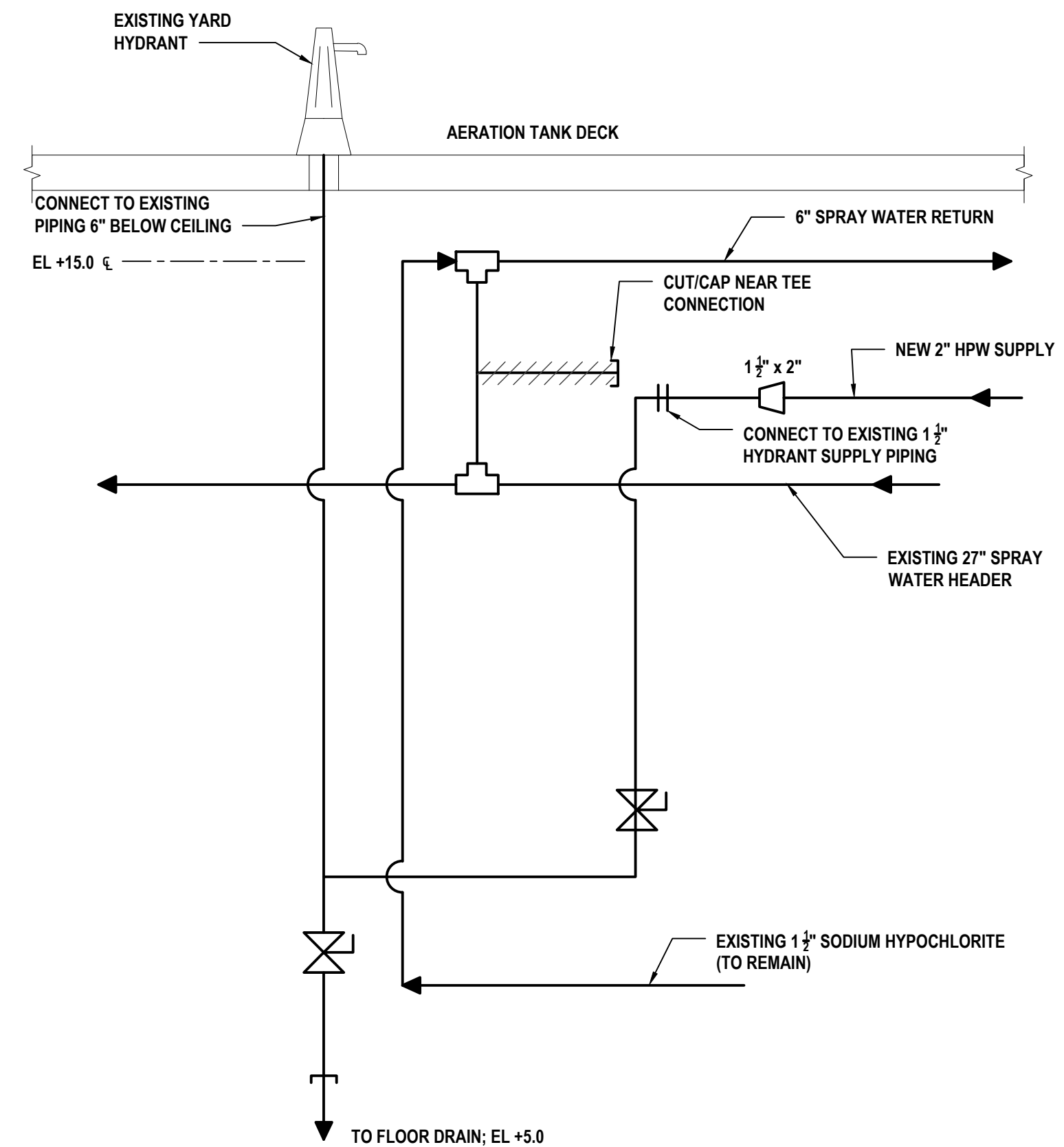
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 16-512 SHEET NUMBER M3.5		
DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK MECHANICAL DETAILS AND SECTIONS		SHEET NO. 19 OF 28 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-M-1056-0		
		REV. NO.		



1 High Pressure Washdown Piping Plan at EL. -6.00 (Alternate 1)
SCALE: 1/8"=1'-0"



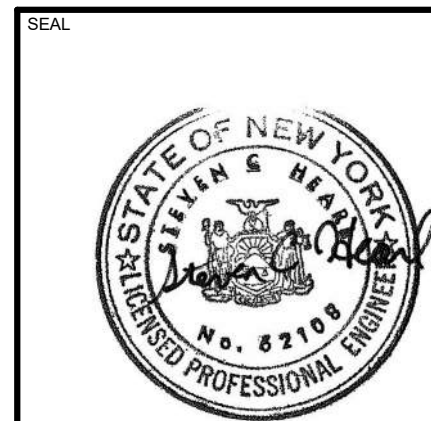
2 High Pressure Washdown Piping Plan at EL. +6.50 (Alternate 1)
SCALE: 1/8"=1'-0"



3 Yard Hydrant Connection For New High Pressure Washdown System
SCALE: NTS
(Alternate 1)

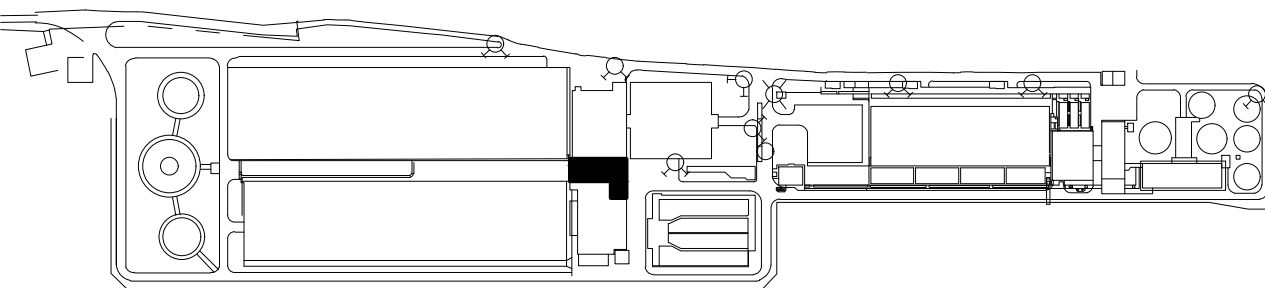
- NOTES:
- YARD HYDRANT CONNECTION REQUIRES SCISSOR LIFT > 15-FOOT WORKING HEIGHT.
 - SCISSOR LIFT SHALL BE PROVIDED BY CONTRACTOR.

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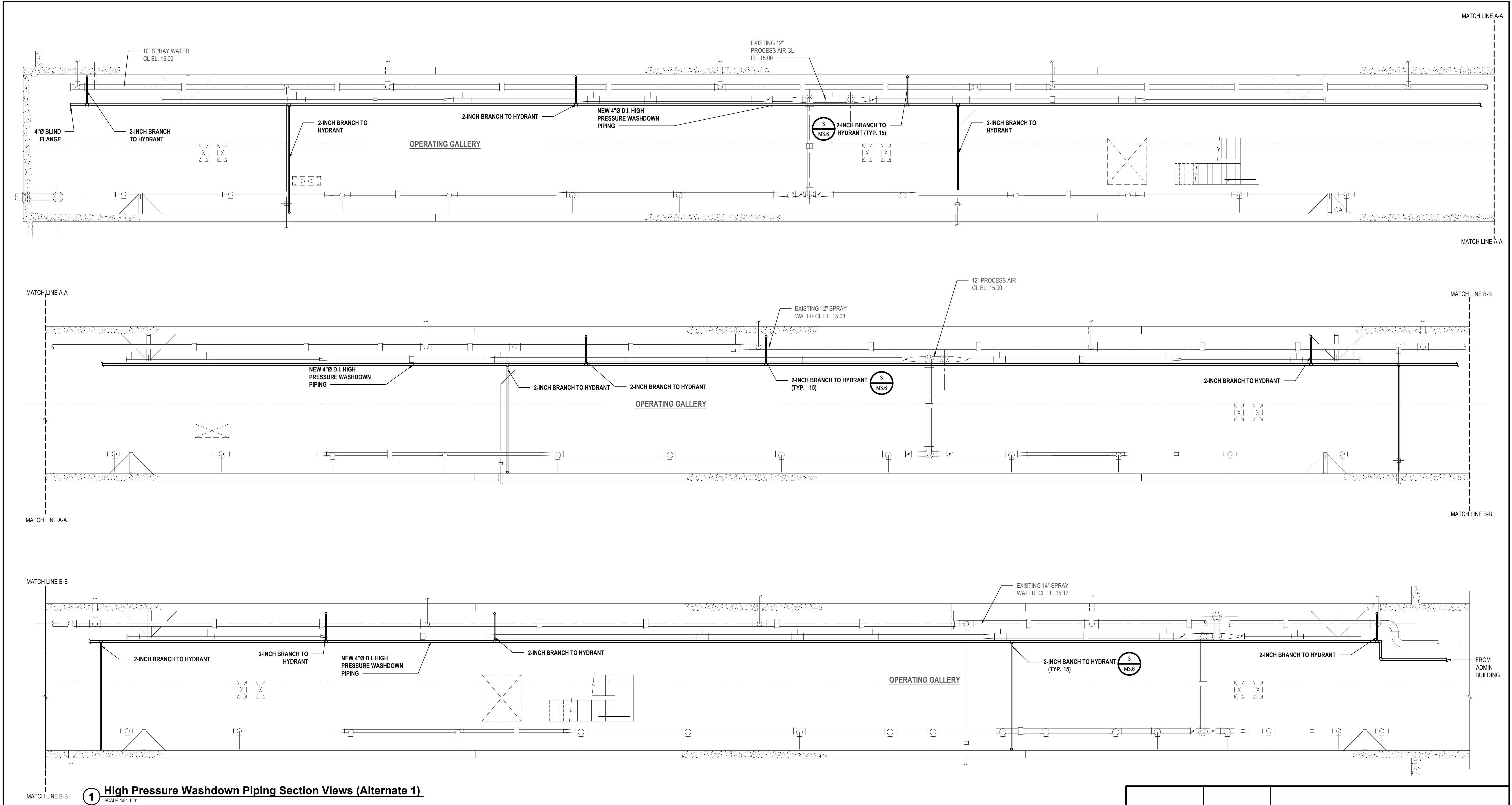
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SITE KEY PLAN
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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				SHEET NUMBER M3.6
DIVISION OF ENGINEERING				SHEET NO. 20 OF 28
SECONDARY SYSTEM REHABILITATION				SCALE: AS SHOWN
YONKERS JOINT WASTEWATER TREATMENT PLANT				DATE: MARCH 2022
YONKERS, NEW YORK				DPW FILE NO.
BLOWER AND ADMINISTRATION BUILDING AND AERATION TANK DETAILS				200-00-M-1057-0
				REV. NO.

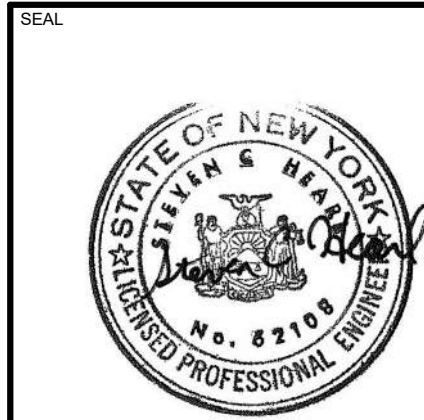


1 High Pressure Washdown Piping Section Views (Alternate 1)
SCALE: 1/8"=1'-0"

NOTES:

1. ALL NEW HIGH PRESSURE WASHDOWN PIPING SHALL BE INSULATED. INSULATION SHALL BE PAINTED PER SCHEDULE ON M0.0.
2. SUPPORT NEW PIPING IN ACCORDANCE WITH SECTION 220529 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT.

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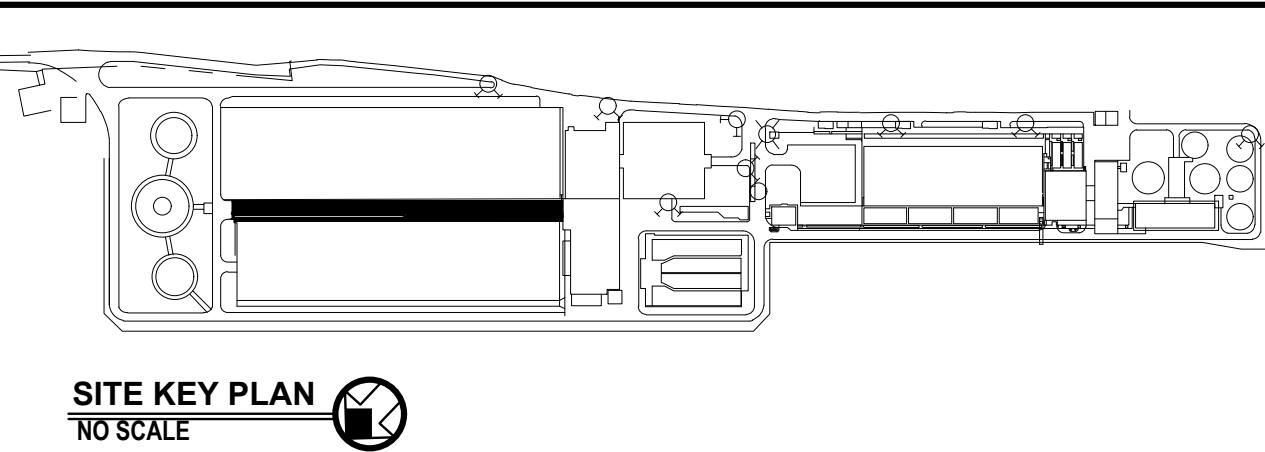
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKERS, NEW YORK OPERATING GALLERY SECTIONAL PLAN AT EL. +5.00				CONTRACT NUMBER 16-512 SHEET NO. 21 OF 28 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-M-1058-0 REV. NO.

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10/36

ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER

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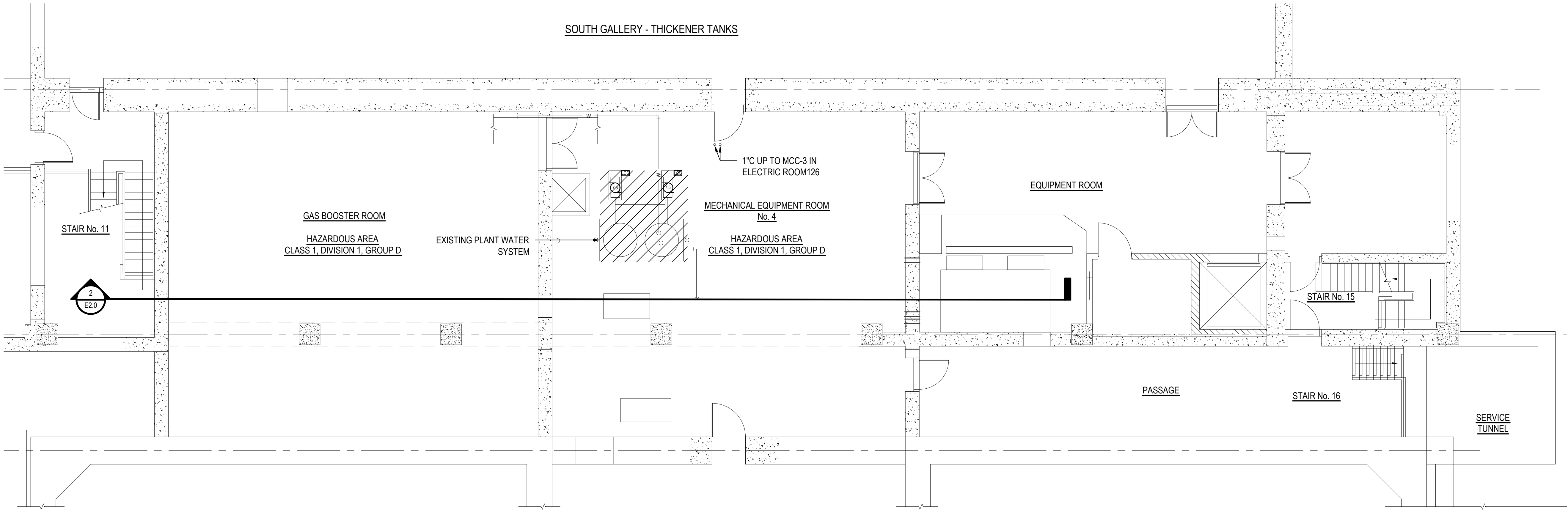
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SITE KEY PLAN
NO SCALE

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DIVISION OF ENGINEERING			SHEET NO. 22 OF 28	
SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKER, NEW YORK			SCALE: AS SHOWN DATE: MARCH 2022	
ELECTRICAL LEGEND, SYMBOLS, ETC			DPW FILE NO. 200-00-E-1059	REV. NO. 0

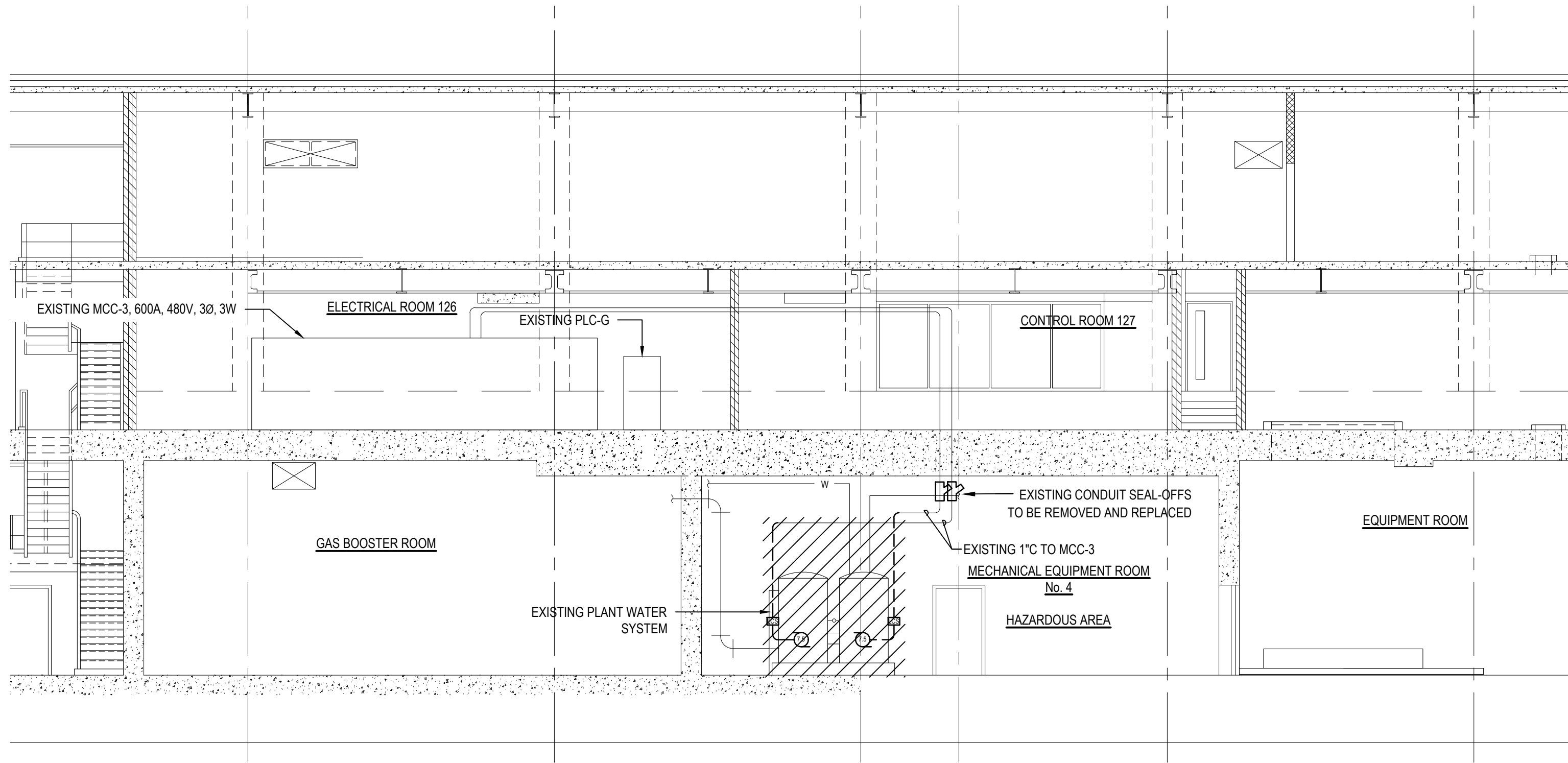
SOUTH GALLERY - THICKENER TANKS



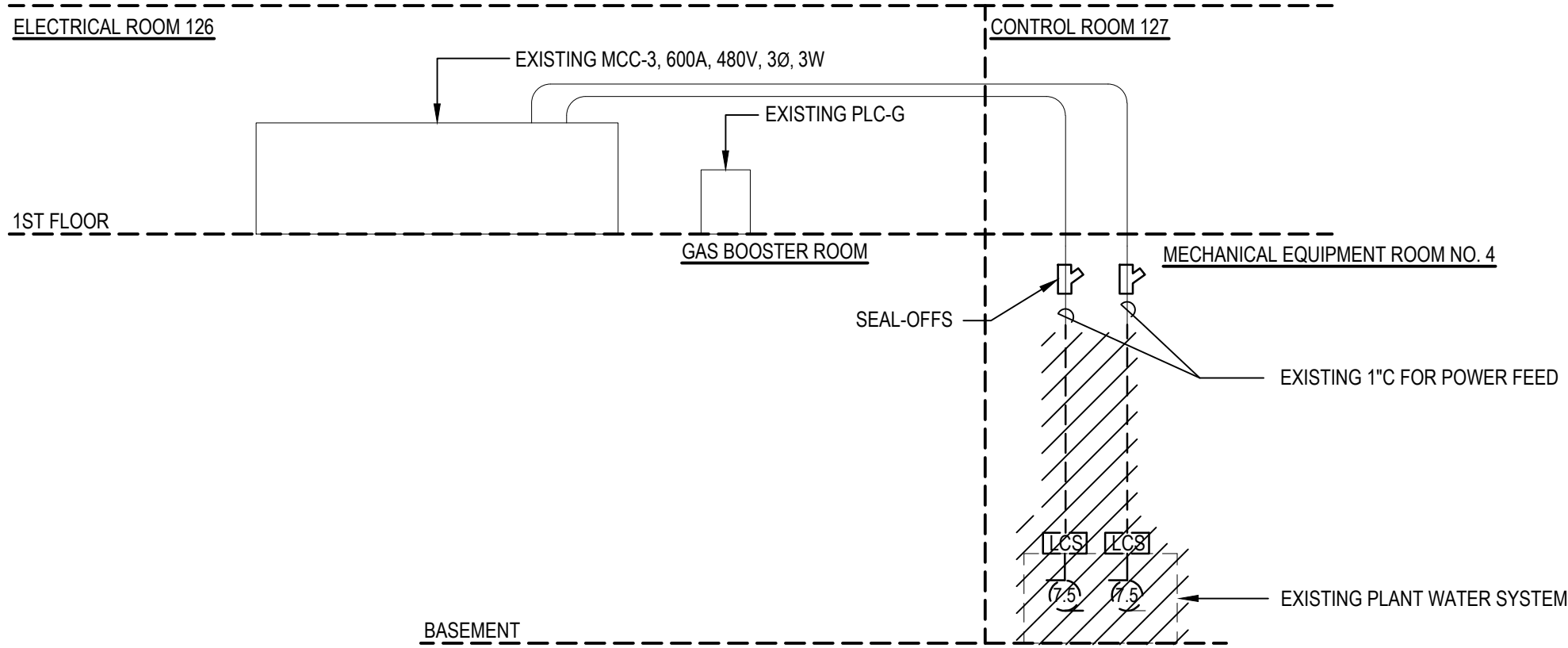
ELECTRICAL DEMOLITION NOTES:

- CONTRACTOR TO REMOVE AND REPLACE EQUIPMENT AND THE ASSOCIATED ACCESSORIES AS INDICATED ON PLAN IN THICKENER BUILDING.
- CONTRACTOR TO CUT CONDUIT AND WIRE FROM EQUIPMENT TO CEILING. ALL WIRING SHALL BE NEW. EXTEND EXISTING CONDUIT TO THE EQUIPMENT TO BE PROVIDED.

1 Thickener Building Electrical Demolition Plan
SCALE: 1/8"=1'-0"

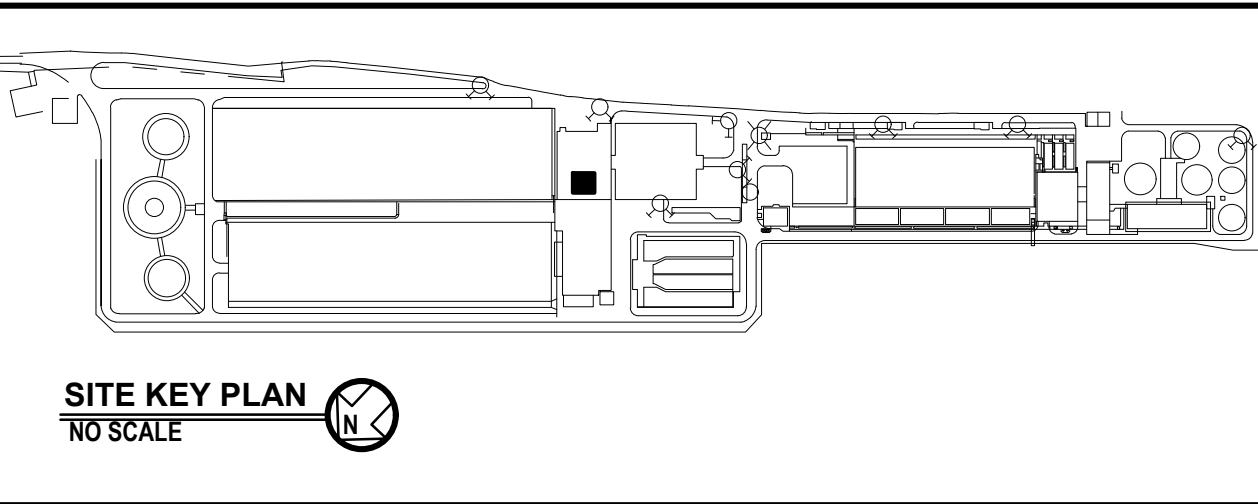
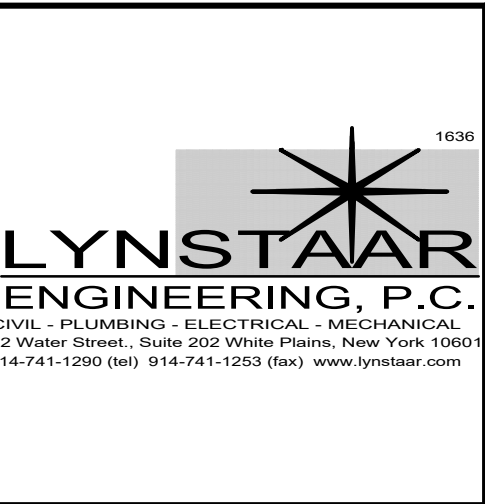
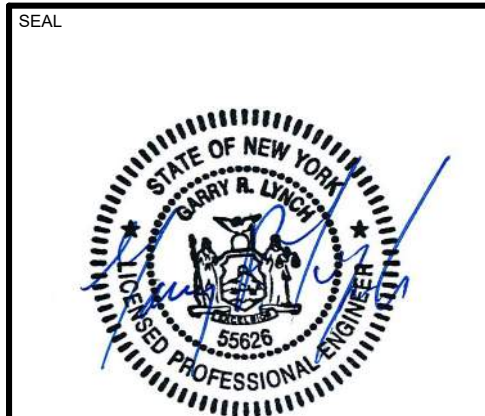


2 Thickener Building Section Demolition
SCALE: 1/8"=1'-0"

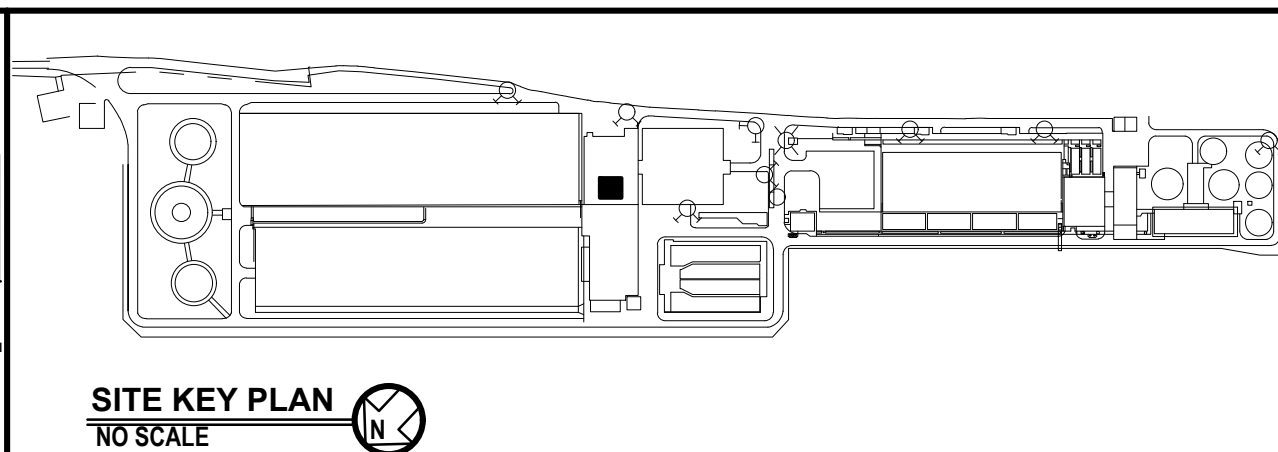
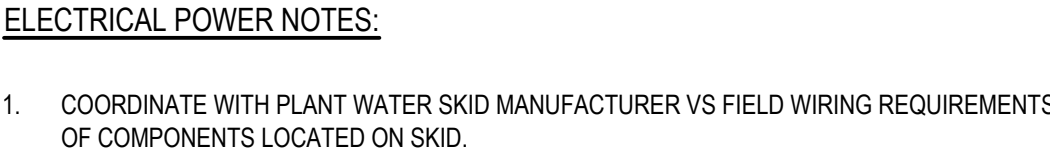


3 Duplex Plant Water System Demolition Wiring Diagram
SCALE: NONE

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING SECONDARY SYSTEM REHABILITATION YONKERS JOINT WASTEWATER TREATMENT PLANT YONKER, NEW YORK THICKENER BUILDING ELECTRICAL DEMOLITION PLAN				CONTRACT NUMBER 16-512 SHEET NO. 23 OF 28 SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-E-1060 REV. NO. 0

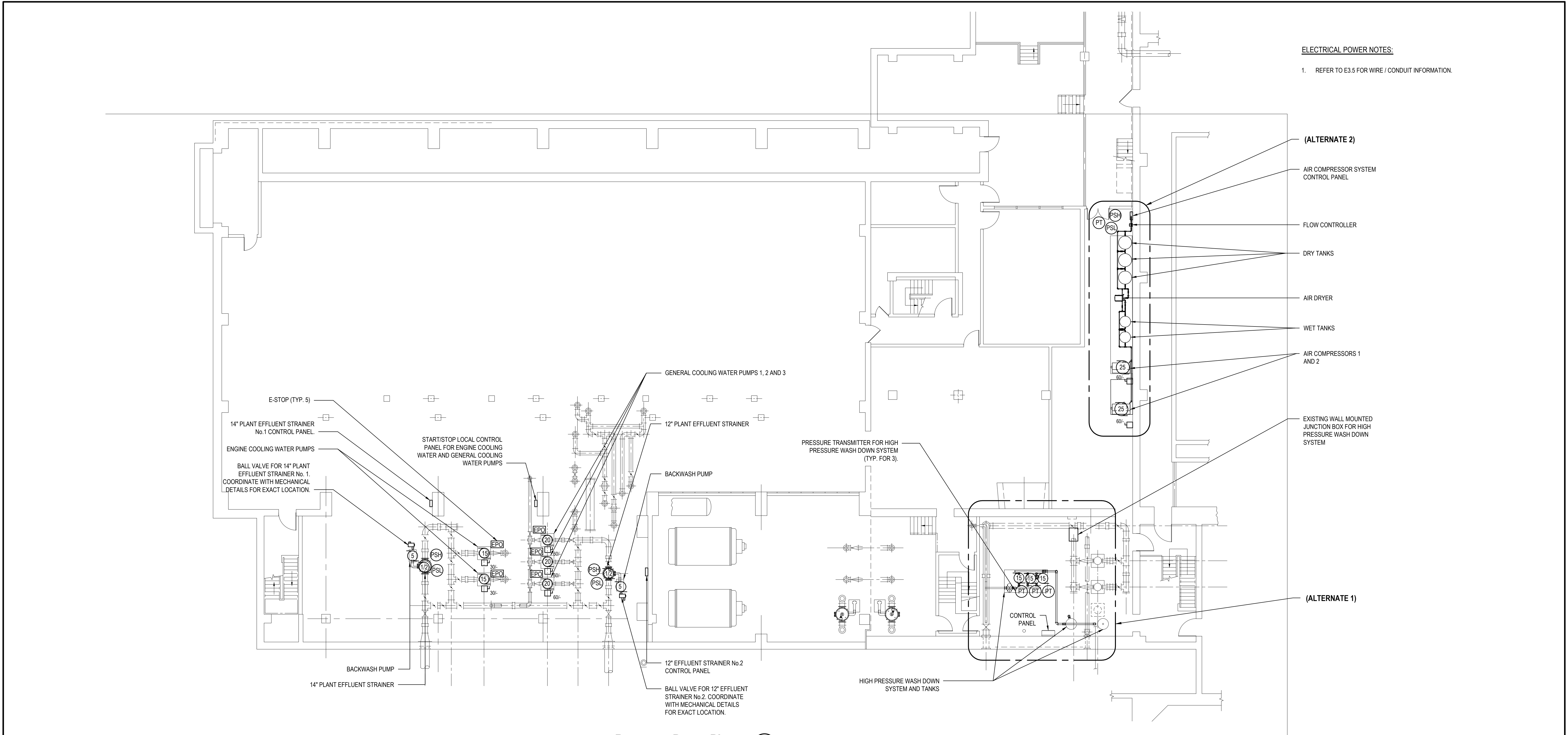


1. CONTRACTOR TO REMOVE AND REPLACE EQUIPMENT AND THE ASSOCIATED ACCESSORIES AS INDICATED ON PLAN IN THE BLOWER AND ADMINISTRATION BUILDING.
2. CONTRACTOR TO CUT CONDUIT AND WIRE FROM EQUIPMENT TO CEILING. ALL WIRING SHALL BE NEW. EXTEND EXISTING CONDUIT TO NEW EQUIPMENT.
3. CONTRACTOR TO REMOVE SECONDARY CONDUIT AND WIRE FROM BUCK BOOST TRANSFORMER TO AIR DRYER. CONDUIT AND WIRE FROM SOURCE TO REMAIN.



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				SHEET NUMBER E3.0
				SHEET NO. 25 OF 28
				SCALE: AS SHOWN DATE: MARCH 2022
BLOWER AND ADMINISTRATION BUILDING ELECTRICAL DEMOLITION PLAN				DWP FILE NO. 200-00-E-1062
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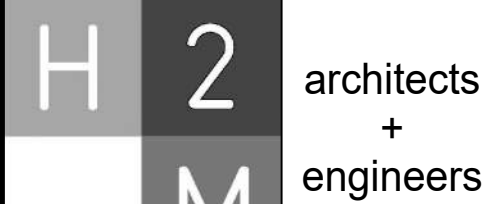
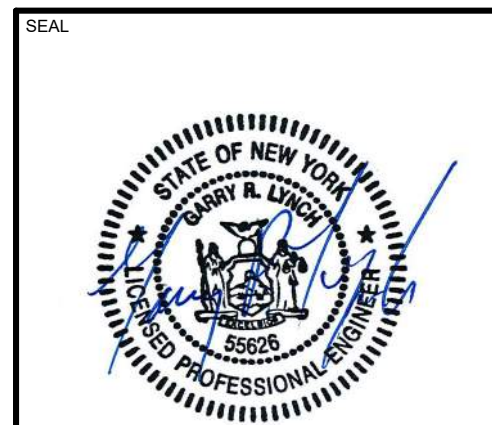


Basement Power Plan

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

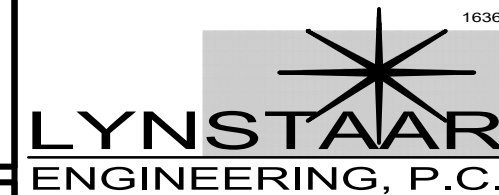


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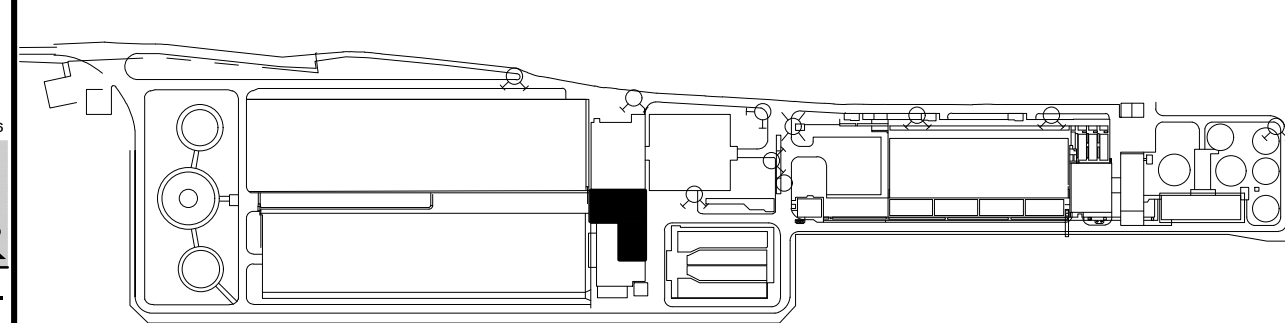


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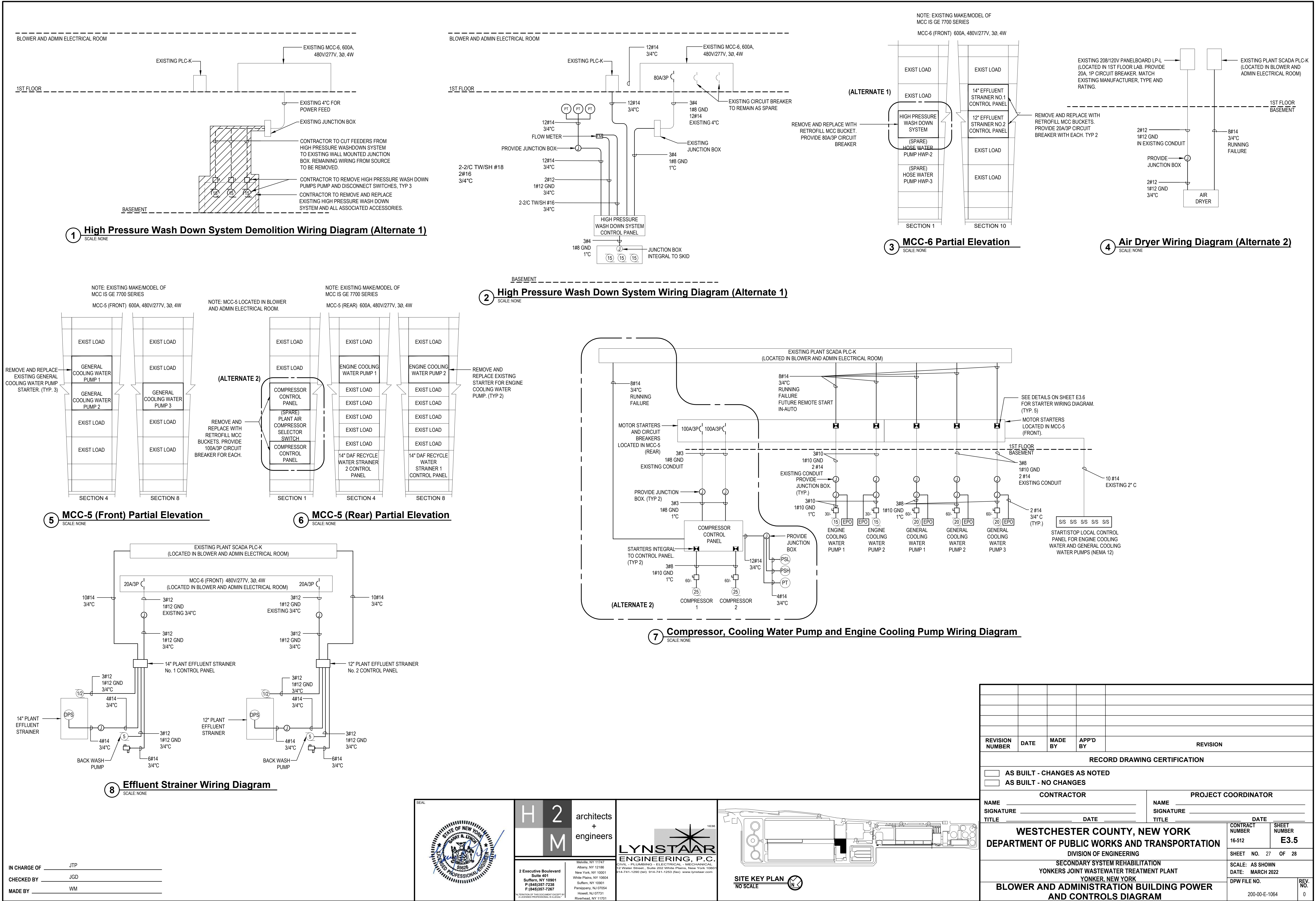
SITE KEY PLAN
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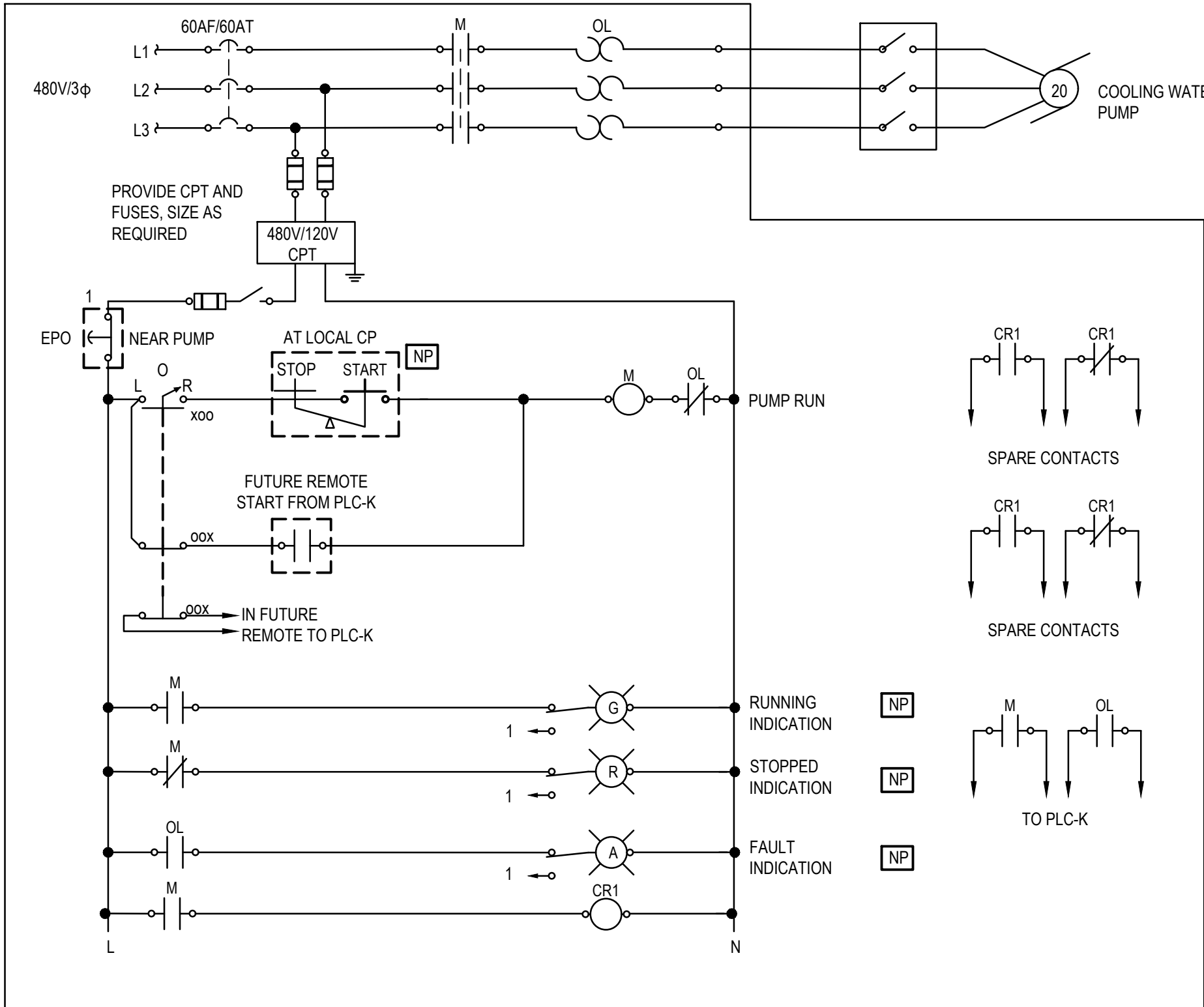


ELECTRICAL POWER NOTES:

- REFER TO E3.5 FOR WIRE / CONDUIT INFORMATION.

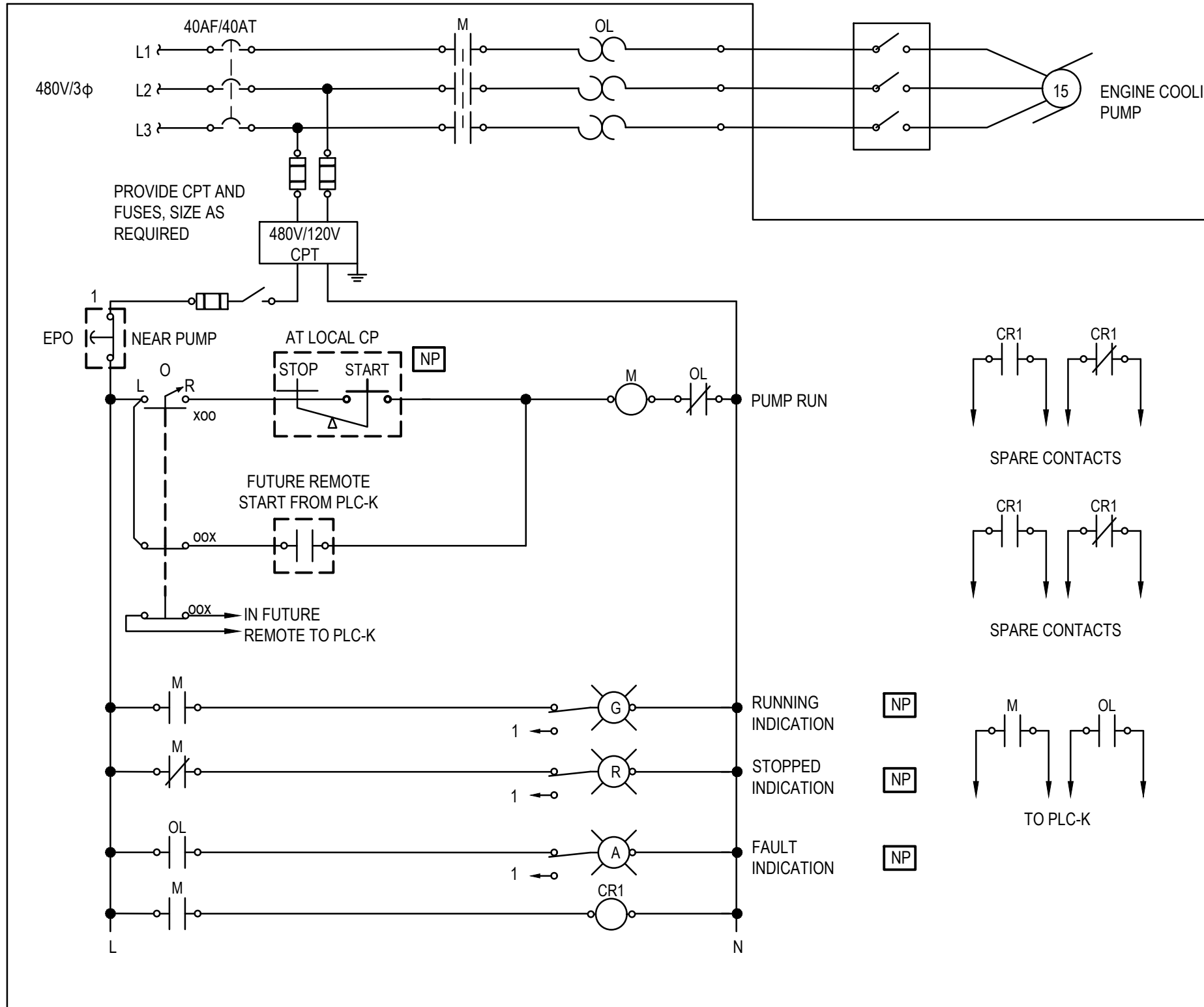
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BLOWER AND ADMINISTRATION BUILDING ELECTRICAL POWER PLAN			SHEET NO. 26 OF 28	SCALE: AS SHOWN DATE: MARCH 2022 DPW FILE NO. 200-00-E-1063
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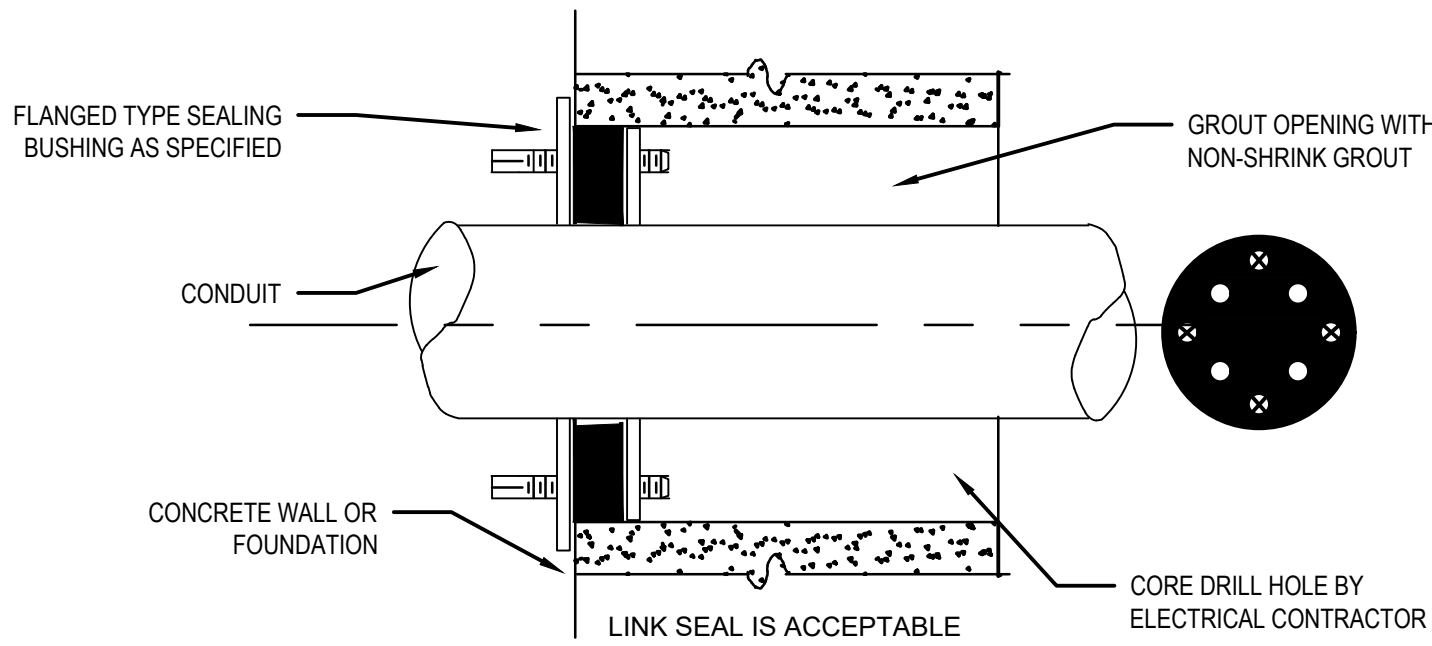
- NOTES:
1. THIS ELEMENTARY DIAGRAM IS TYPICAL FOR GENERAL COOLING WATER PUMPS.
 2. PROVIDE NEMA SIZE 2 STARTER AND OVERLOAD HEATERS AS REQUIRED.
 3. SEE ONE LINE DIAGRAMS FOR CONTROL SCHEMATIC DIAGRAMS FOR ADDITIONAL DETAILS AND COORDINATION.
 4. UNLESS NOTED OTHERWISE, ALL DEVICES SHOWN ON THE CONTROL ELEMENTARY ARE LOCATED IN THE MOTOR STARTER ENCLOSURE.

1 General Cooling Water Pump Starter Diagram
SCALE: NONE



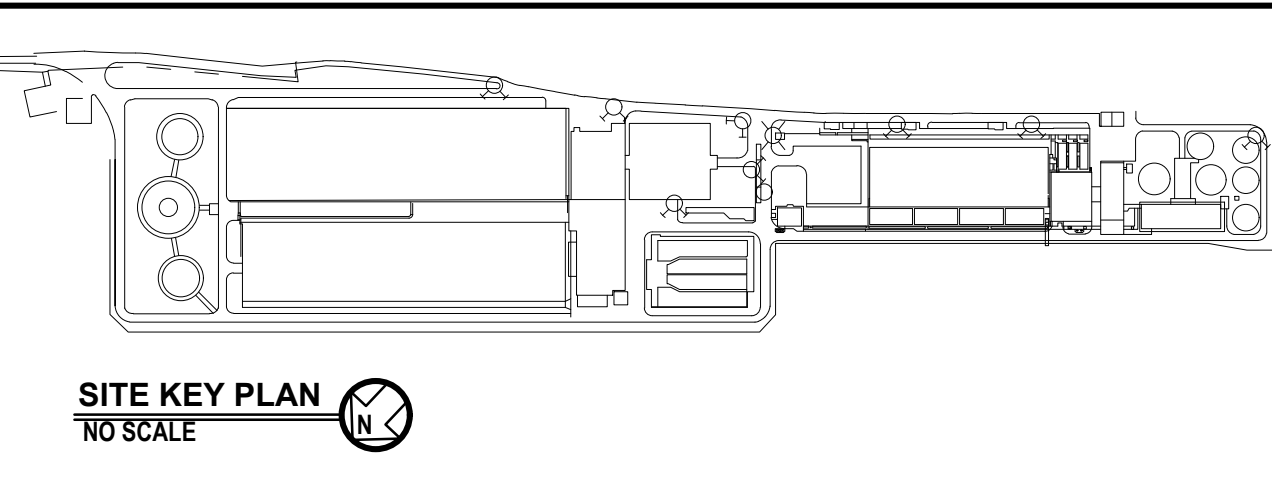
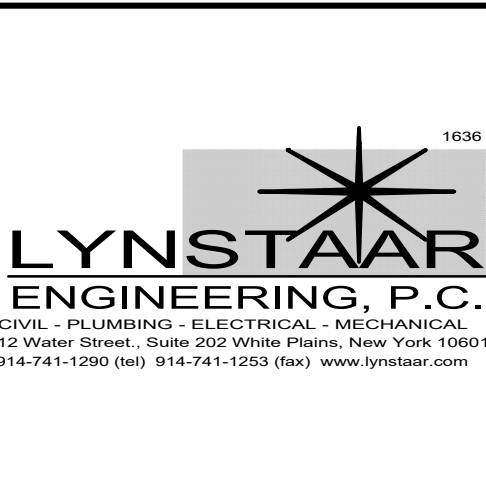
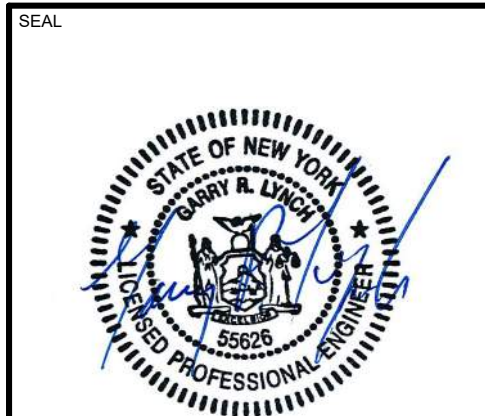
- NOTES:
1. THIS ELEMENTARY DIAGRAM IS TYPICAL FOR ENGINE COOLING PUMPS.
 2. PROVIDE NEMA SIZE 2 STARTER AND OVERLOAD HEATERS AS REQUIRED.
 3. SEE ONE LINE DIAGRAMS FOR CONTROL SCHEMATIC DIAGRAMS FOR ADDITIONAL DETAILS AND COORDINATION.
 4. UNLESS NOTED OTHERWISE, ALL DEVICES SHOWN ON THE CONTROL ELEMENTARY ARE LOCATED IN THE MOTOR STARTER ENCLOSURE.

2 Engine Cooling Pump Starter Diagram
SCALE: NONE



3 Typical Sleeve Detail For Existing Concrete Wall Penetration
SCALE: NONE

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TITLE		TITLE		
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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		16-512	E3.6	
DIVISION OF ENGINEERING		SHEET NO. 28	OF 28	
SECONDARY SYSTEM REHABILITATION		SCALE: AS SHOWN		
YONKERS JOINT WASTEWATER TREATMENT PLANT		DATE: MARCH 2022		
YONKER, NEW YORK		DPW FILE NO.	REV. NO.	
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