

UNION HILL AND TALLMAN PUMP STATION UPGRADE

ROCKLAND COUNTY SEWER DISTRICT NO 1,
ROCKLAND COUNTY, NEW YORK
CONTRACT No. RFB-RC-SWR 2022-06
CWSRF No. C3-5368-33-00

JUNE 2023

EDR JOB: 21213

FOR BID



EDWIN J. DAY - COUNTY EXECUTIVE

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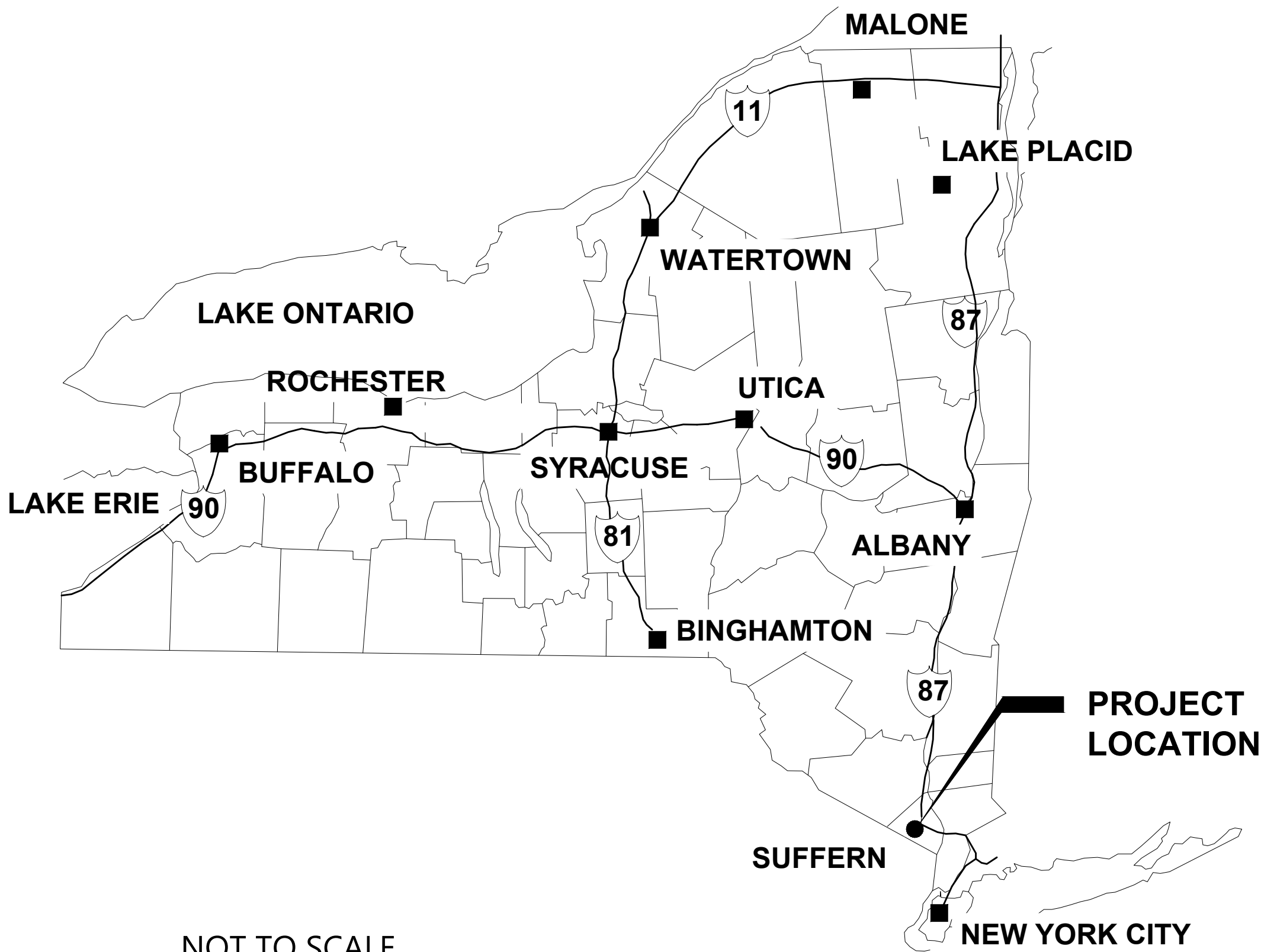
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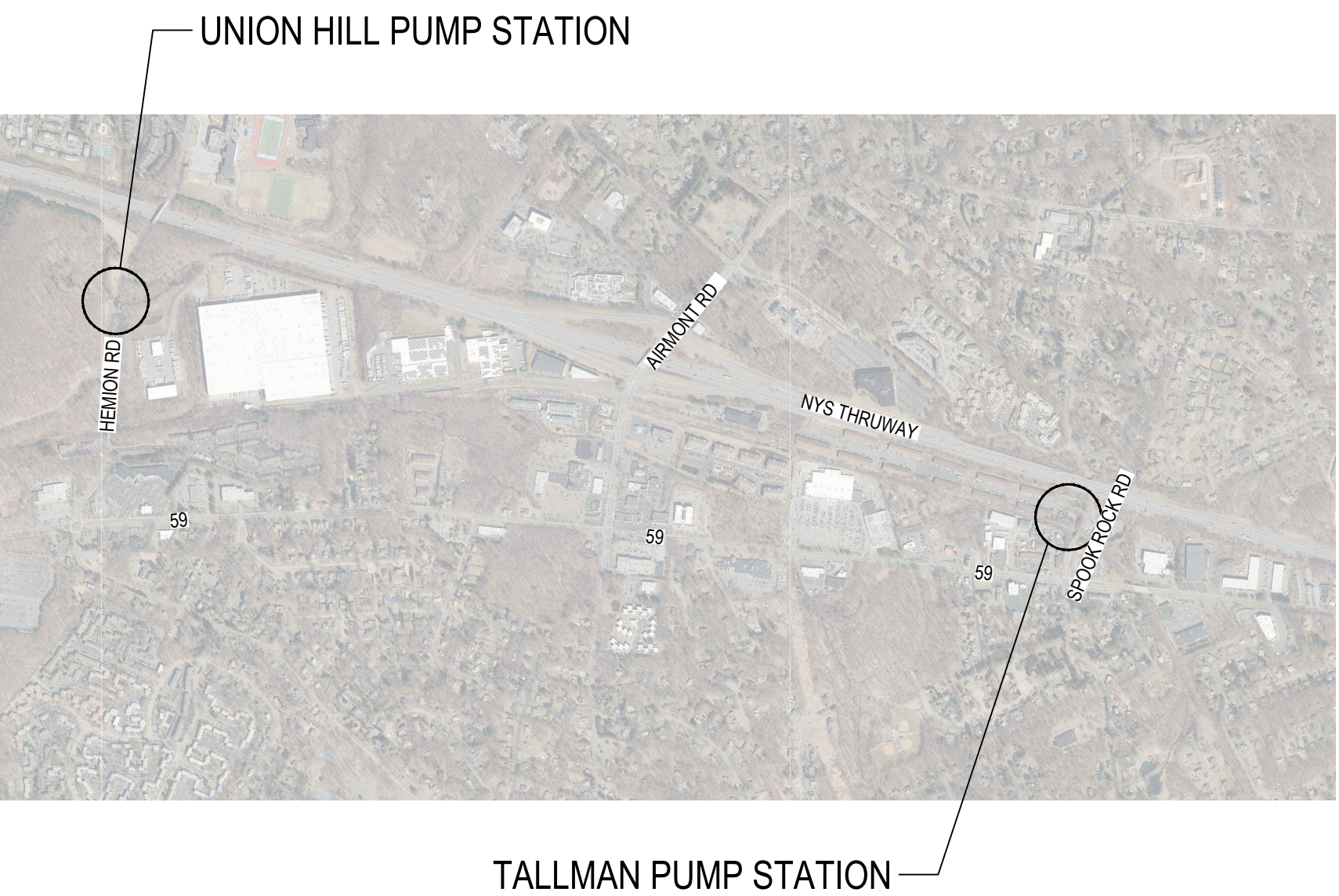


PROJECT LOCATION MAP:



NOT TO SCALE

SITE LOCATION MAP:



NOT TO SCALE

ABBREVIATIONS

ADJ

ADJUSTABLE

AFF

ABOVE FINISH FLOOR

AFF

ABOVE FINISHED FLOOR

ALT

ALTERNATE

ALUM

ALUMINUM

ARCH

ARCHITECT OR ARCHITECTURAL

ASB

ASBESTOS

ASPH

ASPHALT

ASSY

ASSEMBLY

B/

BOTTOM OF

B/F

BOTTOM OF FOOTING

BTW

BETWEEN

BF

BLIND FLANGE

BIT

BITUMINOUS

BLDG

BUILDING

BM

BENCH MARK/ BEAM

BMK

BENCH MARK

BV

BUTTERFLY VALVE

C

CENTER LINE

CB

CATCH BASIN

CC

CENTER TO CENTER

CF OR CUFF

CUBIC FEET

CFM

CUBIC FEET PER MINUTE

CFS

CUBIC FEET PER SECOND

CI

CAST IRON

CIP

CAST IRON PIPE

CIRC

CIRCLE/CIRCULAR

CJ

CONSTRUCTION JOINT

CL

CENTER LINE

CL JT

CONTROL JOINT

CLR

CLEAR/COLOR

CL2

CHLORINE

CLF

CHAIN LINK FENCE

CLG

CEILING

CMP

CORRUGATED METAL PIPE

CMU

CONCRETE MASONRY UNIT

CO

CLEANOUT

COL

COLUMN

COMB

COMBINATION

CONC

CONCRETE

COND

CONDUIT

CONN

CONNECTION

CONST

CONSTRUCTION

CONT

CONTINUOUS

COORD

COORDINATE

CORR

CORRODION

CPLG

COUPLING

CPVC

CHLORINATED POLYVINYL CHLORIDE

CRF

CHEMICAL RESISTANT FINISH

CS JT

CONSTRUCTION JOINT

CTR

CONTRACT

CU IN

CUBIC INCH

CU

COPPER

CV

CHECK VALVE

CY OR CU YD

CUBIC YARD

D

DETAIL

DH

DECK HYDRANT

DIA. OR Ø

DIAMETER

DIAG

DIAGONAL

DIM

DIMENSION

DN

DOWN

DO

DISSOLVED OXYGEN

DWVG

DRAWING

E

EAST/ELECTRICAL CONDUITS

EA

EACH

ECC

ECCENTRIC

EF

EACH FACE

EFF

EFFLUENT

EFW

EFFLUENT WATER

EJ

EXPANSION JOINT

EL

ELBOW

ELEC

ELECTRIC

EQ

EQUAL

F&C

FRAME AND COVER

F&G

FRAME AND GRATING

FC

FLUSHING CONNECTION

FD

FLOOR DRAIN

FF

FINISHED FLOOR

FG

FIBERGLASS/FINIHSED GRADE

FH

FIRE HYDRANT

FIN

FINISH

FIX

FIXTURE

FL

FLANGE

FL

FLOOR

FM

FORCE MAIN / FLOW METER

FND

FOUNDATION

FPS

FEET PER SECOND

FRP

FIBERGLASS REINFORCED PLASTIC

FST

FINAL SETTLING TANK

FT

FEET

FTG

FOOTING

G

GAS

GAL

GALLON

GALV

GALVANIZED

GC

GENERAL CONTRACTOR

GEN

GENERATOR

GI

GALVANIZED IRON

GL

GLASS

GPM

GALLONS PER MINUTE

GR

GRADE / GUARDRAIL

GS

GALVANIZED STEEL

GV

GATE VALVE

H&V

HEATING AND VENTILATING

HB

HOSE BIB

HD

HEAVY DUTY

HDPE

HIGH DENSITY POLYETHYLENE

HOR OR H

HORIZONTAL

HP

HORSEPOWER

HPT

HIGH POINT

HT

HEIGHT

HTR

HEATER

HWL

HIGH WATER LEVEL

HYD

HYDRANT

ID

INSIDE DIAMETER

IF

INSIDE FENCE

INF

INFLUENT

INSUL

INSULATION

INT

INTERIOR

INF

INFLUENT

IPS

INTERNAL PIPE SIZE

JCT

JUNCTION

JT

JOINT

K

1000 POUNDS (1 KIP)

LPT

LOW POINT

LF

LINEAR FEET

LAV

LAVATORY

LG

LENGTH/LONG

LV

LIGHT POLE

LP

LOUVER

LWL

LOW WATER LEVEL

M

MOTOR

MAS

MASONRY

MAX

MAXIMUM

MCC

MOTOR CONTROL CENTER

MECH

MECHANICAL

MEZZ

MEZZANINE

MFR

MANUFACTURER

MGD

MILLION GALLONS PER DAY

MH

MANHOLE

MIN

MINIMUM

MISC

MISCELLANEOUS

MJ

MECHANICAL JOINT

MTG

MOUNTING

MTL

METAL

MULT

MULTIPLE

N

NORTH

NAT

NATURAL

NC

NORMALLY CLOSED

NF

NEAR FACE

NG

NATURAL GAS

NIC

NOT IN CONTRACT

NO OR #

NUMBER

NOM

NOMINAL

NPT

NATIONAL PIPE THREAD

NPW

NON POTABLE WATER

NTS

NOT TO SCALE

OC

ON CENTERS/ODOR CONTROL

OD

OUTSIDE DIAMETER

OF

OUTSIDE FACE

OP

OPERABLE

OPNG

OPENING

OPP

OPPOSITE

ORP

OXIDATION REDUCTION POTENTIAL

P

PLATE/PROPERTY LINE

P&ID

PROCESS INSTURMENTATION DIAGRAM

PAR

PARALLEL

PAT

PATTERN

PAVT

PAVEMENT

PCF

POUNDS PER CUBIC FOOT

PERF

PERFORATED

PERP

PERPENDICULAR

PI

PRESSURE INDICATOR

PL

PROPERTY LINE

PLAS

PLASTIC

PLBG

PLUMBING

PNL

PANEL

PO

PLANT OVERVIEW

POLY OR PE

POLYETHYLENE

PRV

PRESSURE RELIEF / REDUCING VALVE

PS

PUMP STATION

PSF

POUNDS PER SQUARE FOOT

PSI

POUNDS PER SQUARE INCH

PST

PRIMARY SETTLING TANK

PT

POINT

PV

PLUG VALVE

PVC

POLYVINYL CHLORIDE

PW

POTABLE WATER

QTY

QUANTITY

RAD

RADIUS

RAS

RETURN ACTIVATED SLUDGE

RCP

REINFORCED CONCRETE PIPE

RD

ROAD DRAIN / ROAD

REC

RECORD

REDR

REDUCER

REF

REFERENCE

REIN

REINFORCE

REQD

REQUIRED

REV

REVISE

RFG

ROOFING

RL

ROOF LEADER

RM

ROOM

RO

ROUGH OPENING

ROW

RIGHT OF WAY

RS

RETURN SLUDGE

RW

RAW WATER

RWI

RAW WATER INTAKE

S

SOUTH / SUCTION / SANITARY SEWER

SAN

SANITARY

SCH

SCHEDULE

SECT

SECTION

SEW

SEWER

SF

SQUARE FOOT OR SILT FENCE

SG

SLIDE GATE

SHT

SHEET

SICPP

SMOOTH INTERIOR CORRUGATED

POLYETHYLENE PIPE

SIM

SIMILAR

STA

STATION

STL JST

STEEL JOIST

SG

SLUICE GATE

SPEC

SPECIFICATION

SQ

SQUARE

SS

STAINLESS STEELE

ST

STREET

STL

STEEL

STRU

STRUCTURAL/STRUCTURE

SWD

SIDE WATER DEPTH

T & B

TOP AND BOTTOM

T

TILE, TREAD OR TOP

T/D

TOP OF DECK

T/F

TOP OF FOOTING

T/G

TOP OF GRATE / GRATING

TM

TOP OF MASONRY

T/P

TOP OF PIPE

T/S

TOP OF SLAB/STEEL

T/W

TOP OF WALL

TDH

TOTAL DYNAMIC HEAD

TEL

TELEPHONE

TEMP

TEMPERATURE/TEMPORARY/TEMPERED

TERT

TERTIARY

TOB

TOP OF BANK

TYP

TYPICAL

UNO

UNLESS NOTED OTHERWISE

UV

ULTRAVIOLET

V

VERTICAL / VENT

VCT

VITRIFIED CLAY TILE

W

WATER / WEST

W/

WITH

WAS

WASTE ACTIVATED SLUDGE

WG

WEIR GATE

WH

WALL HYDRANT

WL

WATER LEVEL

WS

WATER SURFACE

WST

WATERSTOP

WST

WELDED STEEL PIPE

WV

WATER VALVE

WWF

WELDED WIRE FABRIC

YH

YARD HYDRANT

GENERAL NOTES:

1.

OBTAIN ALL NECESSARY PERMITS AND FURNISH COPIES TO THE OWNER PRIOR TO COMMENCING WORK.

2.

WORK AREA SHALL BE CONFINED TO THE LIMITS OF THE RIGHT-OF-WAYS AND EASEMENTS. THE CONTRACTOR SHALL OBTAIN ANY ADDITIONAL EASEMENTS OR WORK RELEASES SHOULD THE CONTRACTOR REQUIRE ADDITIONAL AREA TO ACCOMMODATE HIS OPERATIONS.

3.

THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES AS SHOWN ON THE PLANS AND PROFILES ARE APPROXIMATE. OTHER UNDERGROUND UTILITIES NOT SHOWN MAY BE ENCOUNTERED. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PERFORM TEST PITS TO VERIFY THE LOCATION AND ELEVATION OF UTILITIES AT INTERCONNECTIONS AND CROSSINGS AS SHOWN, DIRECTED OR REQUIRED. THE CONTRACTOR SHALL EXCAVATE IN ADVANCE OF THE PIPE LAYING OPERATIONS AND EXPOSE ALL EXISTING UNDERGROUND UTILITIES TO PREVENT DAMAGE DURING CONSTRUCTION AND TO DETERMINE REQUIRED CHANGES DURING GRADE NECESSARY TO INSTALL THE NEW UTILITY TO AVOID CONFLICT.

4.

NOTIFY THE OWNER OF ANY UTILITY POLE IN ADVANCE OF ANY EXCAVATION WORK THAT WILL TAKE PLACE WITHIN 5' OF THE UTILITY POLE. THE CONTRACTOR SHALL INCLUDE THE COST OF TEMPORARY POLE SUPPORT IN THE APPROPRIATE BID ITEM. WHERE UTILITY POLES ARE REQUIRED TO BE SUPPORTED DURING CONSTRUCTION, THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY.

5.

EXISTING PIPING AND FACILITIES SHOWN LIGHT. NEW PIPING AND FACILITIES SHOWN DARK. SOME ITEMS TO BE DEMOLISHED ARE SPECIFICALLY LABELED ON THESE DRAWINGS. REFER TO SPECIFICATION SECTION 02030 FOR ADDITIONAL INFORMATION REGARDING DEMOLITION.

6.

VERIFY ALL EXISTING STRUCTURE AND PIPING ELEVATION, LOCATION, SIZE AND TYPE OF MATERIAL WITH NEW PIPING PRIOR TO CONSTRUCTION. IF DISCREPANCIES ARISE BETWEEN THESE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING.

7.

PROVIDE APPROVED ADAPTERS FOR TRANSITIONS BETWEEN DIFFERENT PIPE MATERIALS.

8.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS.

9.

SUPPLY ALL BENDS REQUIRED TO MAINTAIN SMOOTH FLOW LINES, CHANGES IN ELEVATION AND TO MEET ALL TRANSITIONS. USE 45 DEGREE BENDS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

10.

PROVIDE POSITIVE SITE DRAINAGE DURING CONSTRUCTION OPERATIONS. ALL FINAL LINES AND GRADES SHALL BE CONSTRUCTED TO MAINTAIN POSITIVE SITE DRAINAGE TO EXISTING DRAINAGE STRUCTURES.

11.

ALL PAVEMENT SHALL BE SAW CUT PRIOR TO RESTORATION.

12.

LEGEND REPRESENTS STANDARD LINE TYPES AND HATCHING UNLESS INDICATED ON SPECIFIC DRAWINGS.

13.

COORDINATE STAGING AREAS WITH OWNER.

14.

IT IS CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SCOPE OF WORK IN THE FIELD, REVIEW THESE CONTRACT DRAWINGS, ALL PREVIOUS CONSTRUCTION DRAWINGS & DOCUMENTS AND THE DEVELOPMENT SPECIFICATIONS, THE EXISTING FACILITY PLANS, AND DEMOLISH ALL ITEMS NECESSARY TO ACCOMMODATE THE PROPOSED WORK. ALSO THE CONTRACTOR SHALL REPAIR ALL SURFACES AND PLUG ABANDONED PENETRATIONS UPON REMOVAL OF THE DEMOLISHED ITEMS PER THE SPECIFICATIONS.

15.

ELEVATIONS ARE ASSUMED TO REFER TO NGVD 1929 DATUM.

16.

THE ABBREVIATIONS HEREIN ARE STANDARD OF THIS OFFICE AND APPLY TO A VARIETY OF PROJECTS. ONLY A PORTION OF THEM WILL NECESSARILY APPLY TO ANY GIVEN PROJECT. SEE THE LISTINGS IN OTHER SECTIONS OF THIS PROJECT FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS.

17.

VISIT AND EXAMINE THE SITE TO FULLY UNDERSTAND ALL THE CONDITIONS PERTAINING TO THE SCOPE OF WORK, UNDERSTAND DIFFICULTIES TO BE ENCOUNTERED AND MATERIALS REQUIRED FOR THE COMPLETE INSTALLATION OF THE WORK SHOWN ON THE DRAWINGS AND OR SPECIFIED AT NO ADDITIONAL COST TO THE OWNER. THE EXACT LOCATION OF THE EXISTING PIPING, SHALL BE FIELD VERIFIED.

18.

TAKE ALL NECESSARY PRECAUTIONS AND MAKE ALL NECESSARY PROVISIONS FOR PROTECTION OF THE PUBLIC, THE WORKMEN AND THE WORK, AND FOR MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC AS REQUIRED BY THE AGENCIES OF GOVERNMENT HAVING JURISDICTION.

19.

ADHERE TO ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), STATE AND LOCAL SAFETY REGULATIONS.

20.

PROMPTLY REPORT TO THE OWNER'S REPRESENTATIVE ANY DISCREPANCIES FOUND ON THE SITE OR IN THE CONTRACT DOCUMENTS FOR REVIEW AND RESOLUTION BEFORE PROCEEDING WITH THE WORK IN THE AREA IN QUESTION. PROVIDE FIELD INFORMATION SPECIFIC TO THE DISCREPANCY TO EXPEDITE RESOLUTION.

21.

LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS.

22.

TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EROSION AND CONTROL SEDIMENTATION AS REQUIRED BY THE AGENCIES OF GOVERNMENT HAVING JURISDICTION.

23.

PROVIDE DEWATERING AND MAINTENANCE OF SURFACE WATER AND/OR GROUNDWATER ENCOUNTERED DURING THE COURSE OF WORK.

24.

COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING MATERIALS, METHODS OF WORK AND DISPOSAL OF EXCESS AND WASTE MATERIALS.

25.

BURNING OF MATERIALS OF ANY DESCRIPTION IS PROHIBITED.

26.

PRIOR TO PERFORMING ANY EXCAVATION WITHIN THE CONSTRUCTION AREA, CONFIRM WITH DIG SAFELY NEW YORK THAT ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE CURRENTLY VERIFIED, OR ARRANGE FOR VERIFICATION.

27.

PRIOR TO START OF WORK, THE CONTRACTOR SHALL PROVIDE EXPLORATORY EXCAVATIONS AND COORDINATE ALL PIPING LAYOUTS WITH THE OWNER'S REPRESENTATIVE TO ELIMINATE ALL CONFLICTS WITH EXISTING UTILITIES.

28.

THE USE OF EXPLOSIVES OF ANY DESCRIPTION IS PROHIBITED.

29.

CONSTRUCTION DEBRIS AND DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS AND SHALL NOT BE ALLOWED TO ACCUMULATE. EMPLOY APPROPRIATE MEASURES TO PREVENT LOOSE DEBRIS FROM LEAVING THE CONSTRUCTION AREA.

30.

THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE CAUSED BY CONSTRUCTION TO EXISTING UTILITIES AND FACILITIES WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. THE CONTRACTOR SHALL REPAIR, RESTORE AND/OR REPLACE ALL DAMAGE TO THE SATISFACTION OF UTILITY'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

31.

RESTORE ALL DISTURBED SURFACES TO ORIGINAL OR BETTER CONDITION INCLUDING 6 INCHES OF TOPSOIL, SEED, FERTILIZER, AND MULCH. OTHER SURFACES SHALL BE RESTORED AS SHOWN ON THE DETAILS.

32.

PERFORM WORK AND PROVIDE ALL MATERIALS NECESSARY TO DISCONNECT OR RELOCATE EXISTING UTILITIES. COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SHUTOFF AND RECONNECTION OF ACTIVE SERVICES. RECORD EXISTING UTILITY TERMINATION POINTS BEFORE DISCONNECTION.

33.

ADJUST THE RIM ELEVATIONS OF EXISTING UTILITY STRUCTURES SCHEDULED TO REMAIN WITH THE FINISHED GRADE ELEVATIONS.

34.

MAINTAIN EXISTING SANITARY SEWER AND WATER SERVICES AT ALL TIMES, EXCEPT DURING OWNER APPROVED AND SCHEDULED INTERRUPTIONS. THE CONTRACTOR SHALL SUBMIT A PROPOSED WORK SCHEDULE AND A DETAILED SANITARY SEWER BY-PASS PROCEDURE TO THE OWNER AND ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL RESTORE GRAVITY SANITARY SEWER SERVICE AT THE END OF EACH WORK DAY. SHOULD THIS NOT BE POSSIBLE, PROVIDE AND MAINTAIN TEMPORARY BY-PASS PUMPING OPERATIONS UNTIL NORMAL GRAVITY FLOWS CAN BE RE-ESTABLISHED AT NO ADDITIONAL COST TO THE OWNER.

35.

ALL STRUCTURES SHALL MEET AASHTO H20 LOADING REQUIREMENTS.

36.

ALL NEW LATERALS SHALL BE INSTALLED WITH A MINIMUM 1/4" PER FOOT SLOPE.

37.

THE CONTRACTOR IS RESPONSIBLE FOR HANDLING, CUTTING AND DISPOSAL OF ALL ASBESTOS CEMENT (AC) PIPE TO BE REMOVED OR CUT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

38.

ALL EXISTING DRAINAGE FACILITIES SHALL BE MAINTAINED FREE OF DEBRIS AND FOREIGN MATTER AND BE IN OPERATION THROUGHOUT CONSTRUCTION.

39.

ALL WORK SHALL BE CONDUCTED WITHIN THE CURRENT EASEMENT.

40.

FIELD VERIFY ALL INVERTS, PIPE LOCATIONS, ETC. PRIOR TO CONSTRUCTION.

41.

CONTRACTOR SHALL COMPLY WITH ALL LOCAL NOISE ORDINANCES.

42.

CONTRACTOR SHALL PROVIDE ALL FITTINGS, ADAPTERS, ETC. TO INSTALL NEW PUMPS.

43.

SITES SHALL BE REHABILITATED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.

RAIL ROAD NOTES:

1.

CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.

2.

PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAME SUBSTANCES.

3.

BLASTING NOT PERMITTED.

MECHANICAL JOINT FITTING

SYMBOLS

MECHANICAL JOINT

11 1/4 DEGREE BEND

22 1/2 DEGREE BEND

45 DEGREE BEND

90 DEGREE BEND

TEE

CROSS

WYE LATERAL

BUTTERFLY VALVE

GATE VALVE

PLUG VALVE

REDUCER

WELD JOINT FITTING

SYMBOLS

WELD JOINT

11 1/4 DEGREE BEND

22 1/2 DEGREE BEND

45 DEGREE BEND

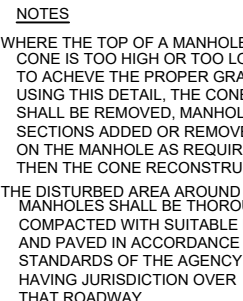
90 DEGREE BEND

LONG RADIUS 90 DEGREE BEND

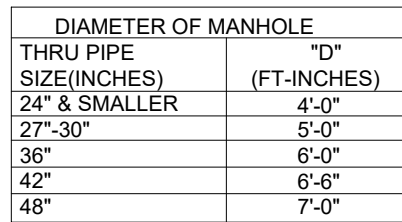
TEE



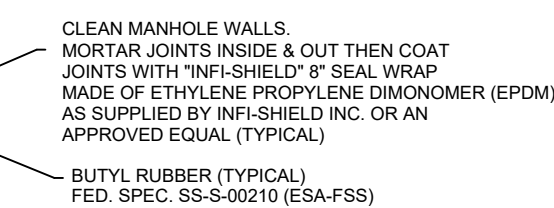
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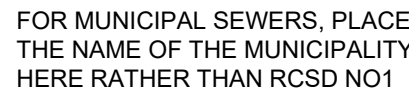
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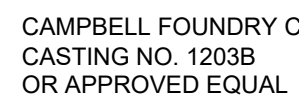
MANHOLE RUNG DETAIL



NOT TO SCALE

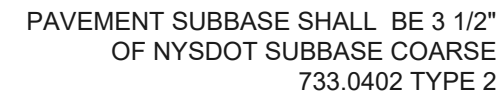


PLAN



SECTION

NOT TO SCALE



TRENCH BACKFILL IF EXISTING
MATERIAL IS UNSUITABLE,
NYSDOT 733-0402 TYPE 2 SHALL
BE USED

PIPE BEDDING
NYS DOT 733-0402, TYPE 2

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL APPLICABLE SAFETY CONDITIONS ALONG TRENCH.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING NECESSARY SLOPE SIDES, AND IF SHORING AND/OR A TRENCH SHIELD IS REQUIRED.
3. ALL ROAD PAVEMENT RESTORATION SHALL BE COMPLETED AFTER PIPE IS INSTALLED AND TESTED.
4. SEE DETAIL FOR TRENCHES IN NEW YORK STATE DOT RIGHT-OF-WAY.

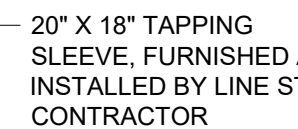
TRENCH & PAVEMENT RESTORATION

NO SCALE



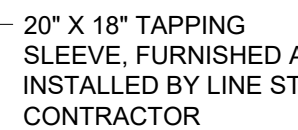
PLAN

NTS



SECTION

NTS



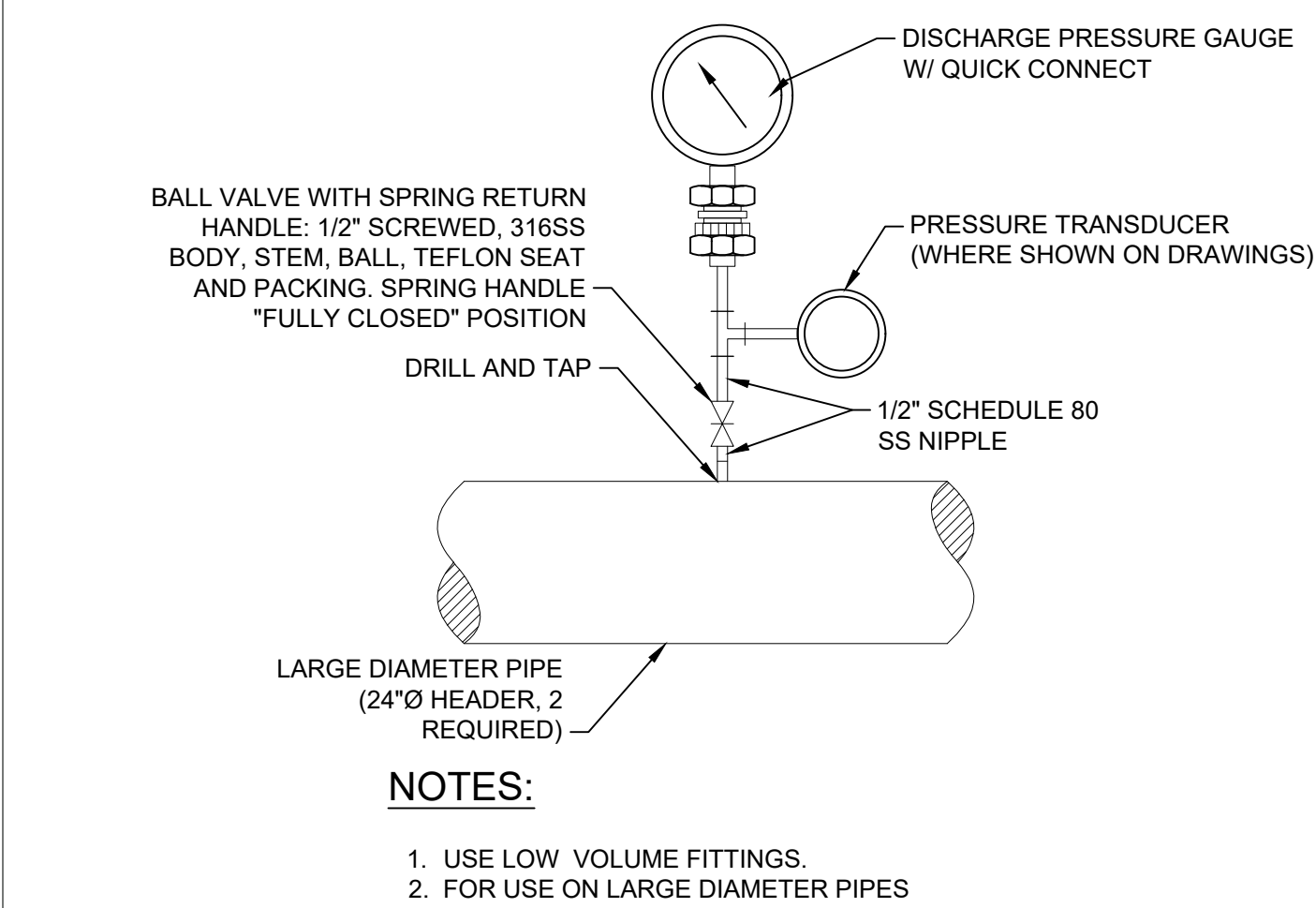
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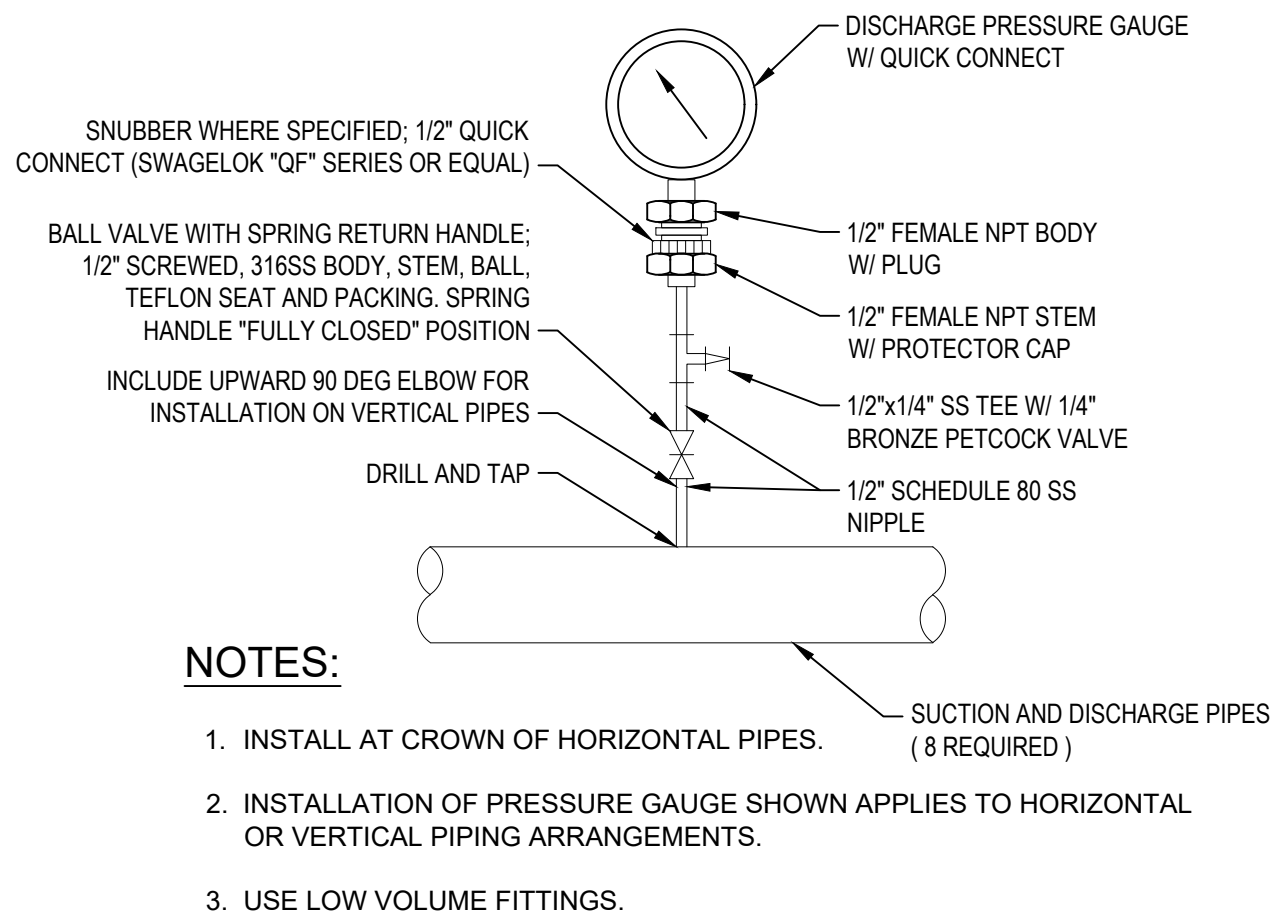
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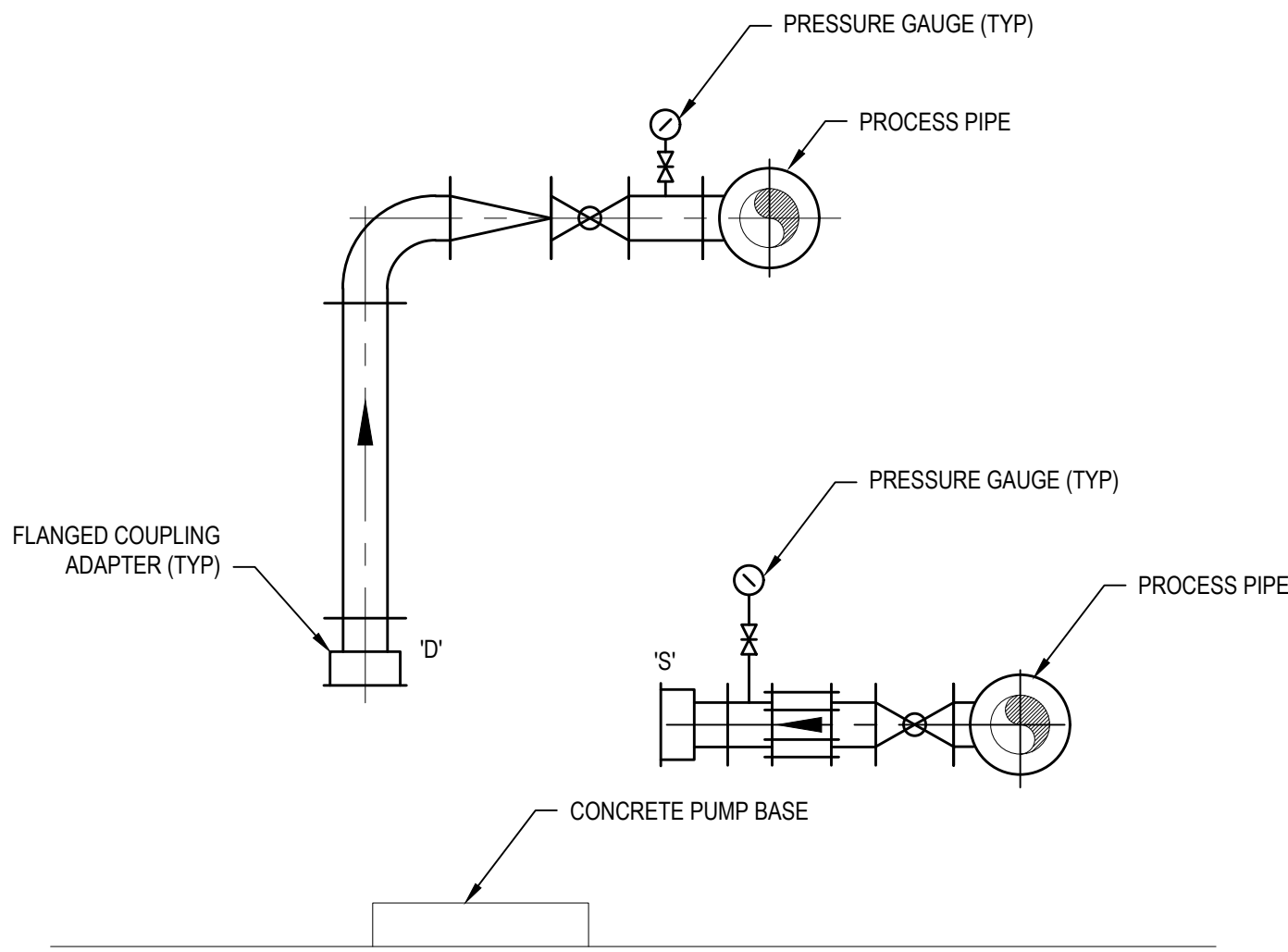
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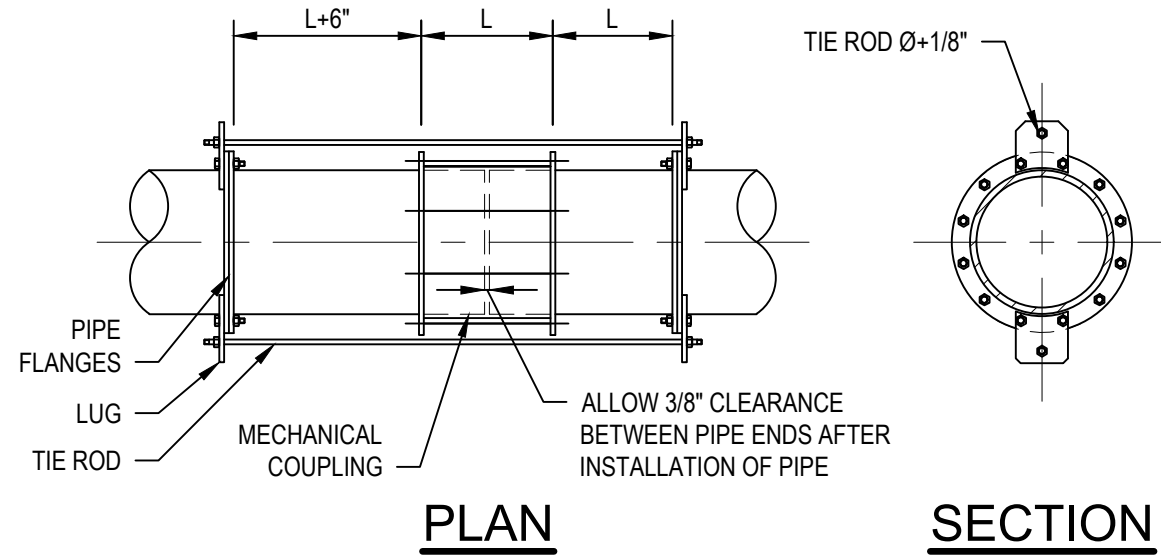
PRESSURE GAUGE - TRANSDUCER
NOT TO SCALE



PRESSURE GAUGE
NOT TO SCALE



TYPICAL PRESSURE GAUGE LOCATION
NOT TO SCALE

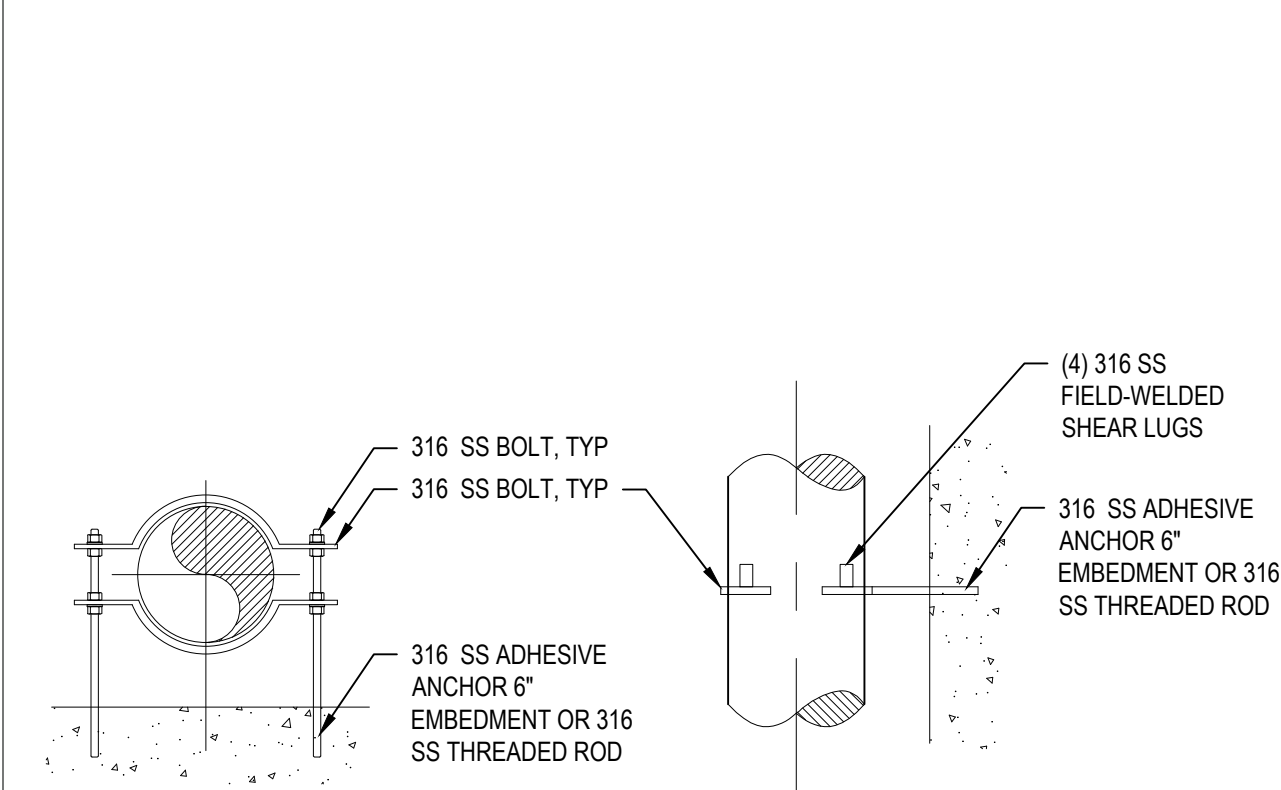


NOTES:

1. ONE TIE ROD PER LUG. LUGS EQUALLY SPACED AROUND PIPES.
2. PROVIDE TIE RODS FOR ALL MECHANICAL COUPLINGS AND FLANGE COUPLING ADAPTORS FOR
PRESSURIZED PIPELINES IN ACCORDANCE WITH THE TIE ROD SCHEDULE INCLUDED IN THIS DETAIL.
3. MAXIMUM TEST PRESSURE: 150 PSIG

TIE ROD SCHEDULE				
PIPE DIA (IN)	TIE RODS		LUG	
	No.	DIA (IN)	THICKNESS (IN)	No. OF FLG BOLTS PER LUG
4	2	5/8	1	2
6	2	3/4	1	2
8	2	3/4	1	2
10	3	7/8	1 1/4	2
12	3	7/8	1 1/4	2
14	3	1	1 1/4	2
16	4	1	1 1/4	2
18	4	1 1/8	1 1/2	2
20	4	1 1/8	1 1/2	2
24	4	1 1/4	1 3/4	2
30	8	1 1/4	2	2
36	8	1 1/2	2 1/4	3
42	8	1 1/2	2 1/2	3
48	8	1 1/2	2 3/4	3

DIP HARNESSSED MECHANICAL COUPLING
NOT TO SCALE

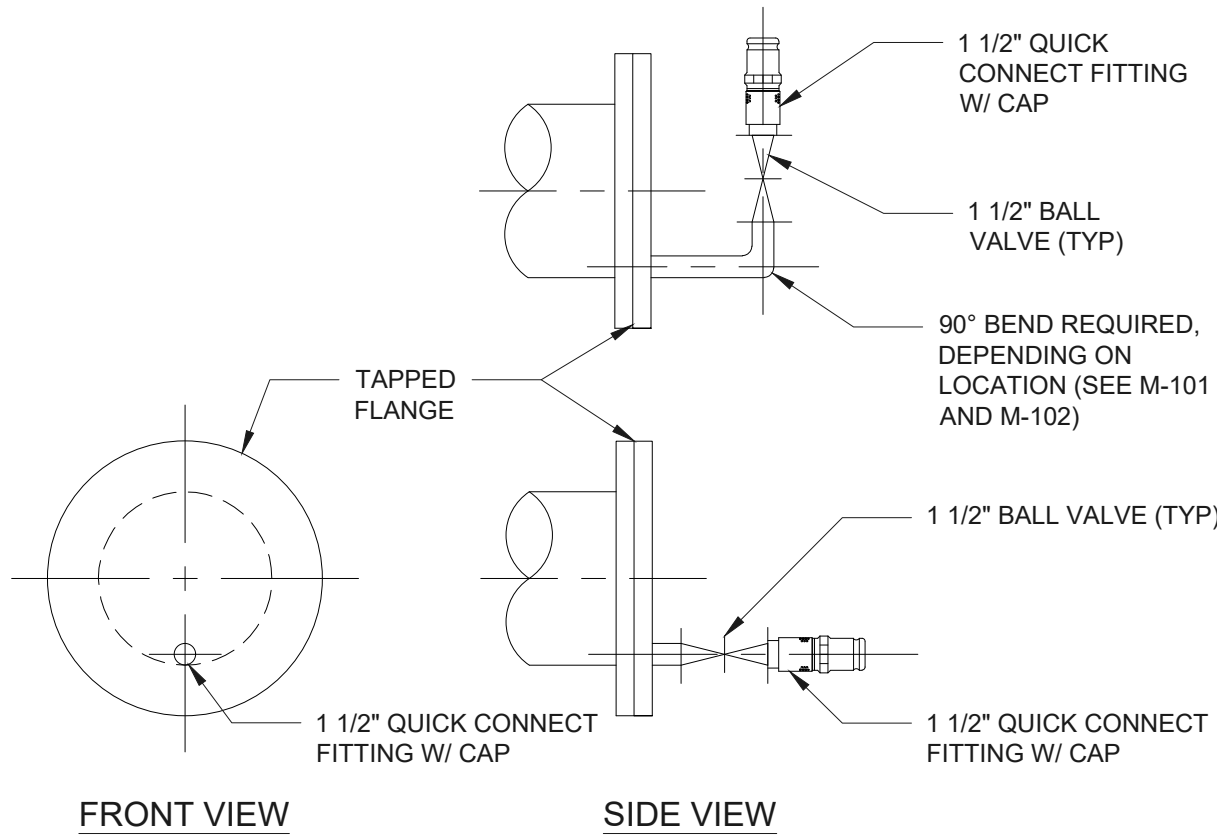


PLAN

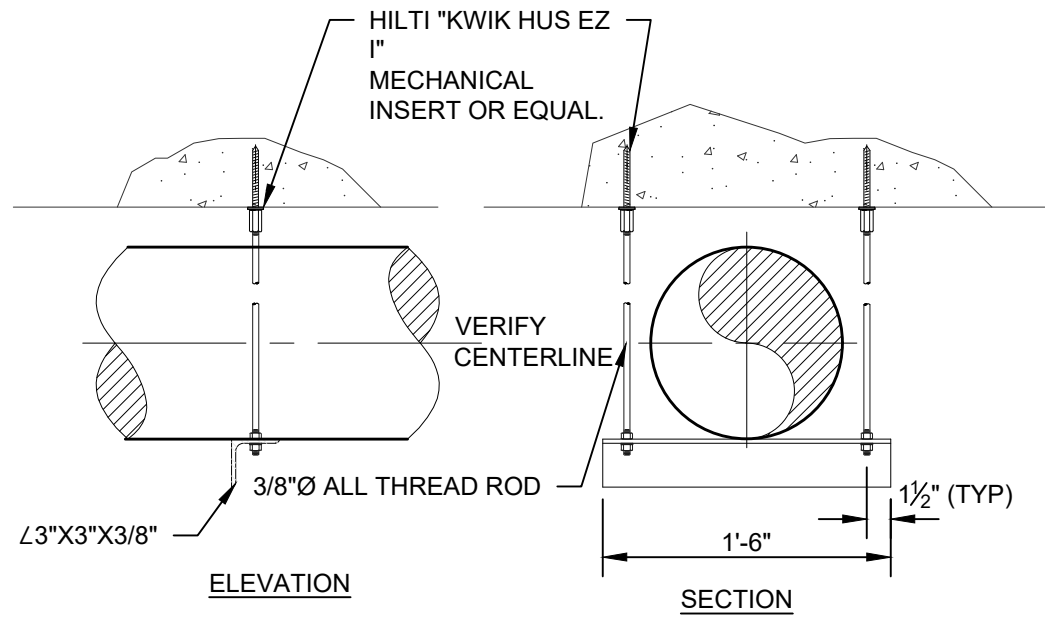
SECTION

TYPE 'R-C' PIPE SUPPORT

Scale: NTS



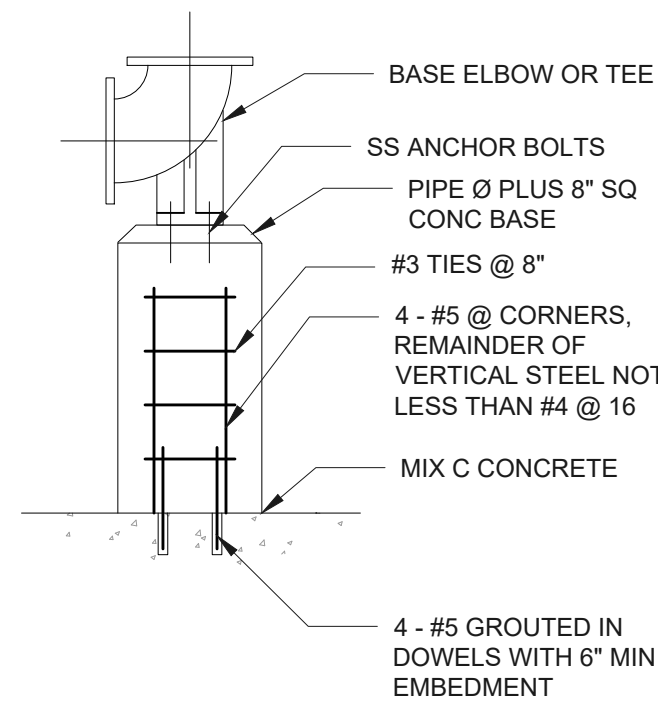
FLUSHING CONNECTION / PIPE DRAIN
NOT TO SCALE



NOTE:

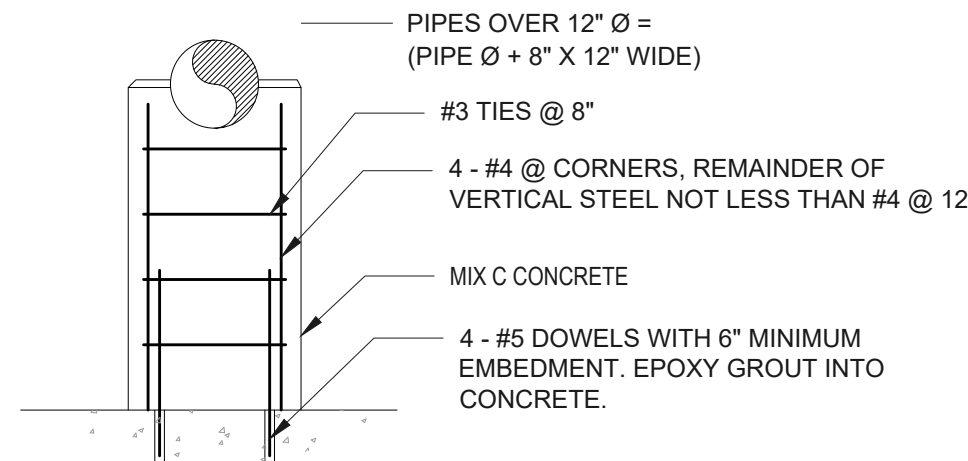
1. ALL MATERIALS INCLUDING FASTENERS AND HARDWARE SHALL
BE TYPE 304 STAINLESS STEEL.

TRAPEZE HANGER SUPPORT
NOT TO SCALE



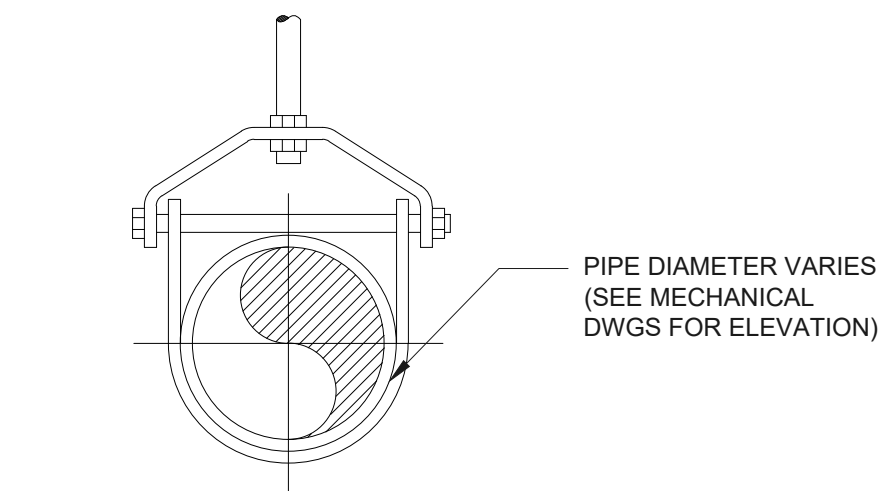
TYPE 'F' PIPE SUPPORT

NOT TO SCALE



TYPE 'G' PIPE SUPPORT

NOT TO SCALE

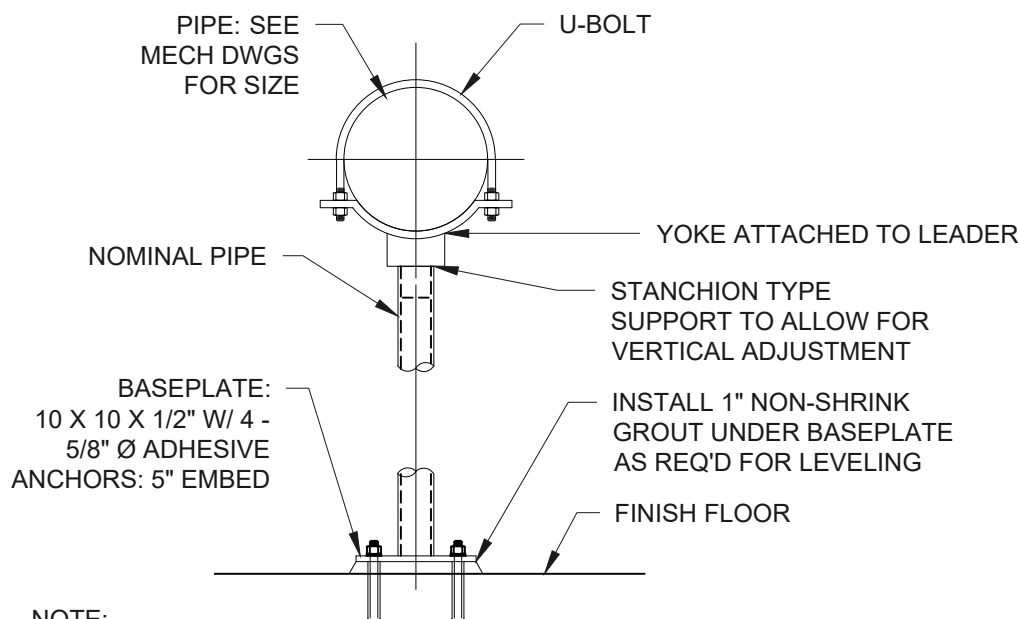


NOTE:

1. ALL MATERIALS INCLUDING FASTENERS AND HARDWARE SHALL
BE TYPE 304 STAINLESS STEEL.

TYPE 'A' PIPE SUPPORT

NOT TO SCALE

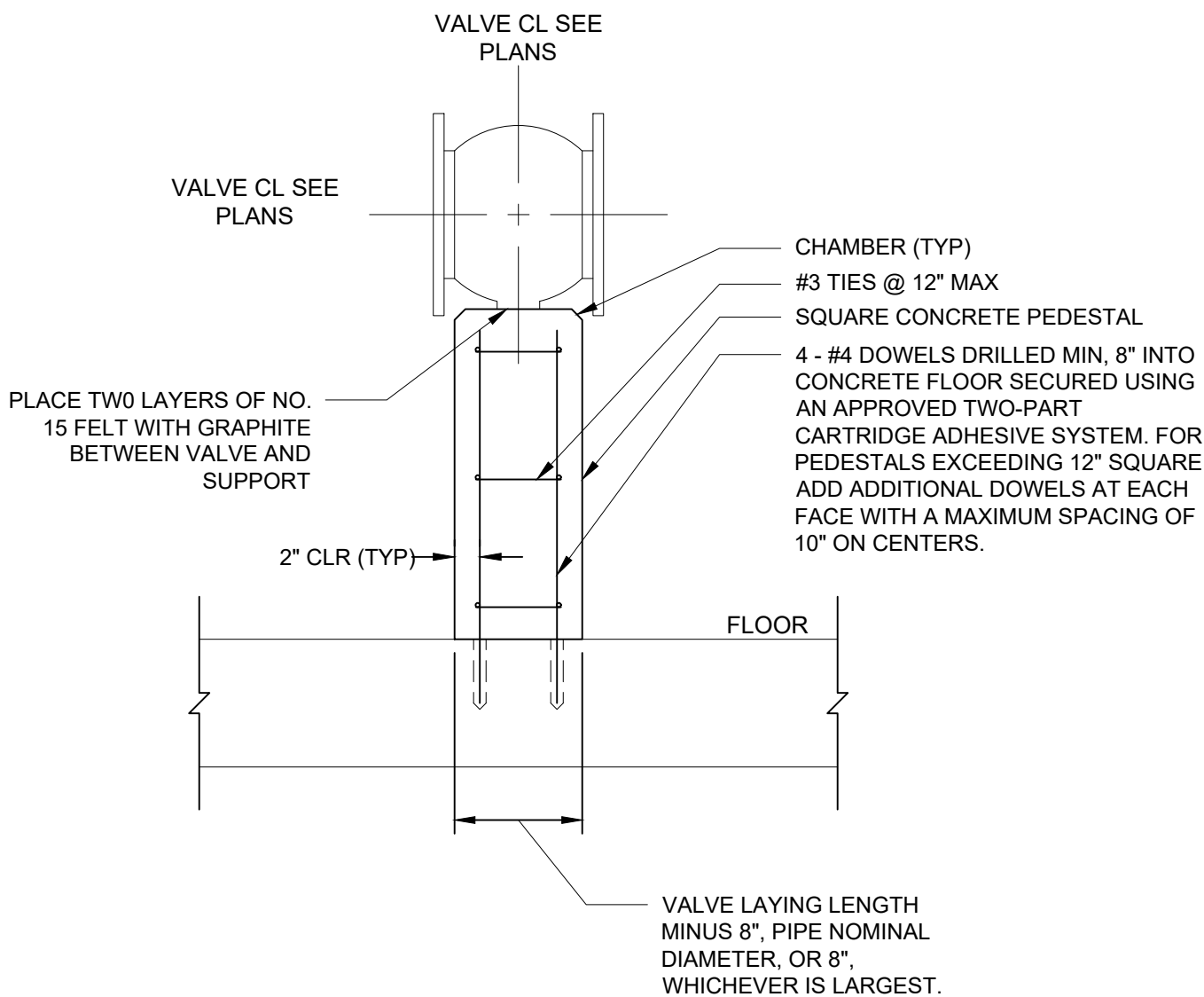


NOTE:

1. ALL MATERIALS INCLUDING FASTENERS AND HARDWARE SHALL
BE TYPE 304 STAINLESS STEEL.

TYPE 'B' PIPE SUPPORT

NOT TO SCALE



TYPE 'CV' CONCRETE VALVE SUPPORT

NOT TO SCALE

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Education Law, Article 145, Section 7209, and Chapter II,
Section 79-14, and applies to this drawing: "It is a
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alter an item in any way. If an item bearing the seal of an
engineer, landscape architect or land surveyor is altered,
the altering engineer, landscape architect or land
surveyor shall affix to the item his seal and the notation
"altered by" followed by his signature and the date of
such alteration and a specific description of the
alteration."



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Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **MISCELLANEOUS DETAILS II**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	MJL		
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
6	06/23	FOR BID	MJL	RRS	MET

CONTRACT
1

CONTRACT# RFB-RC-SWR-2022-06

EDR JOB# **21213**

DATE: **06/2023**

SCALE: **AS SHOWN**

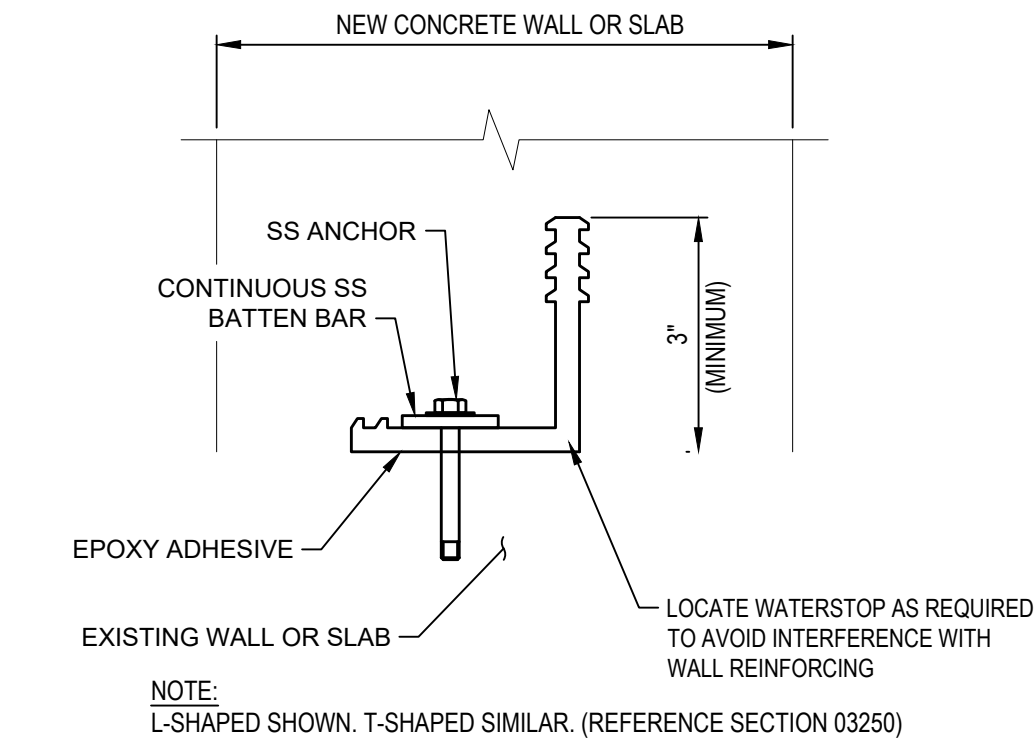
DRAWN BY: **MJL**

CHECKED BY: **RRS**

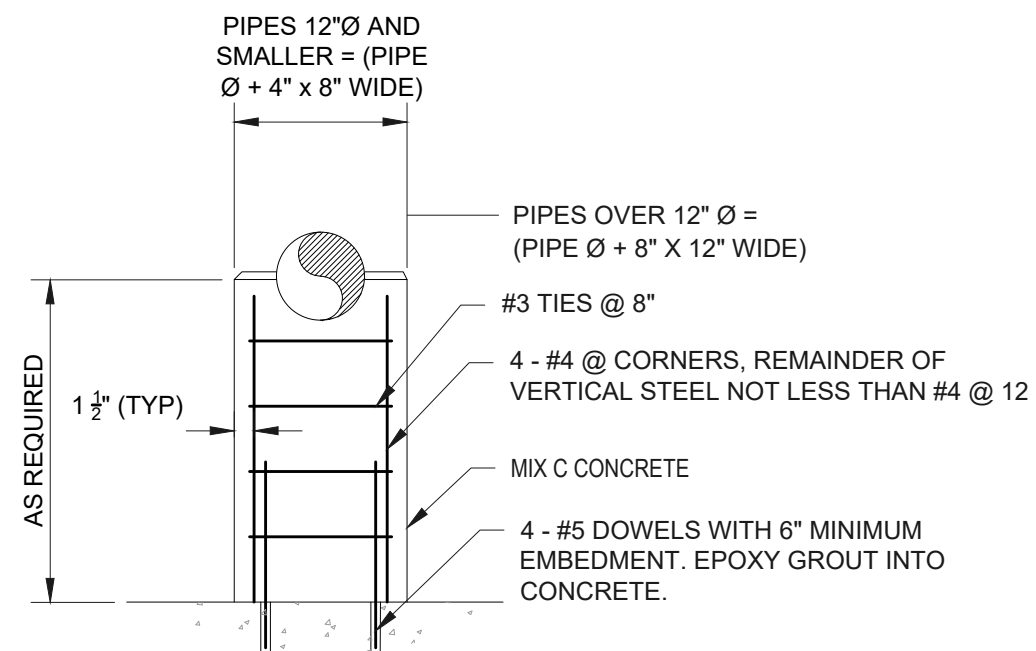
DRAWING NUMBER:

G-004

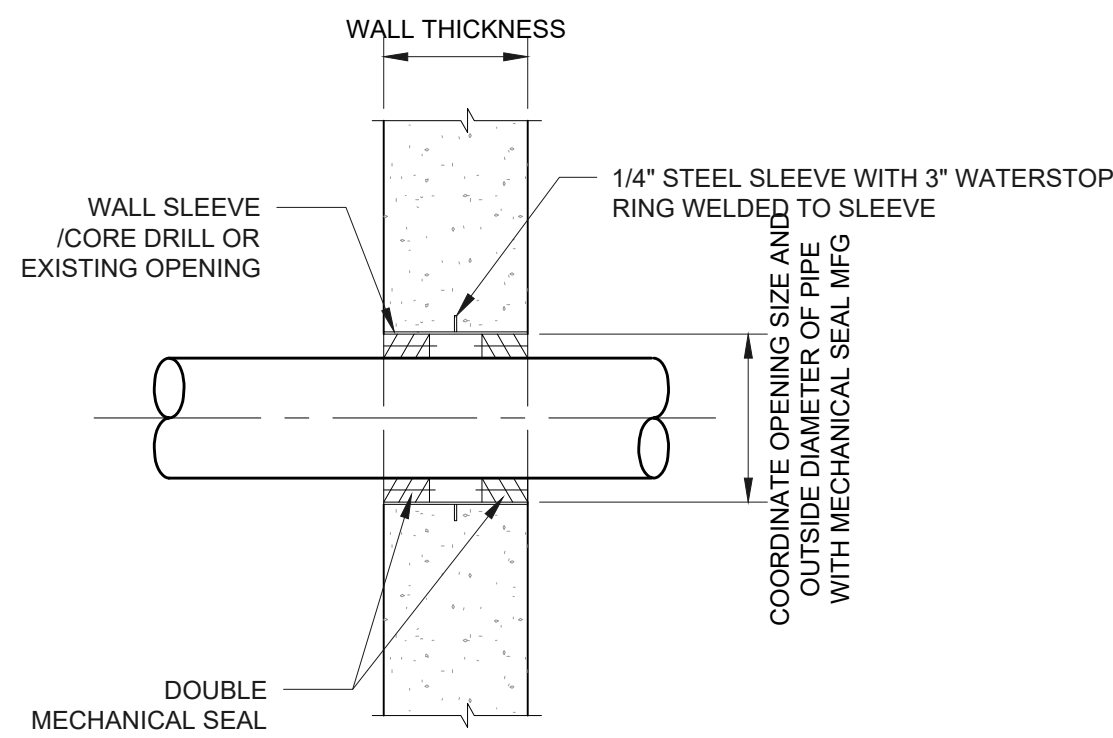
Date Printed: 01/16/2023 10:11:26 AM
7/2/21 13 Rockland Union Hill and Tallman PWS Civil/Working Drawings/General/21213 G-005.dwg



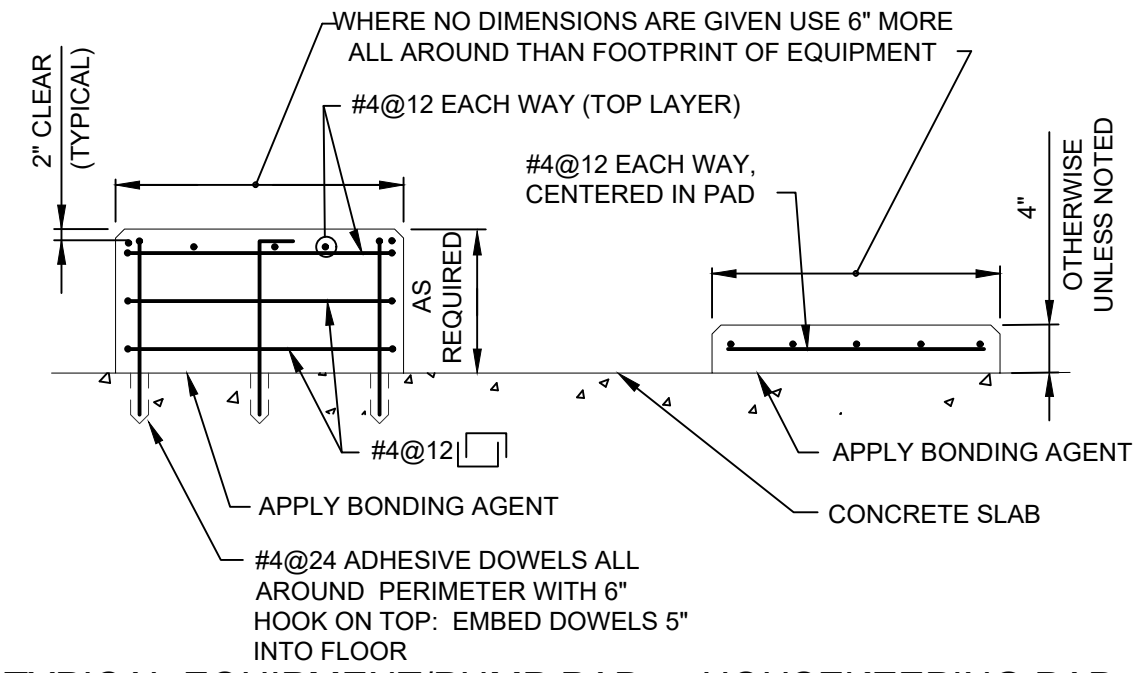
RETROFIT WATERSTOP SYSTEM
NOT TO SCALE



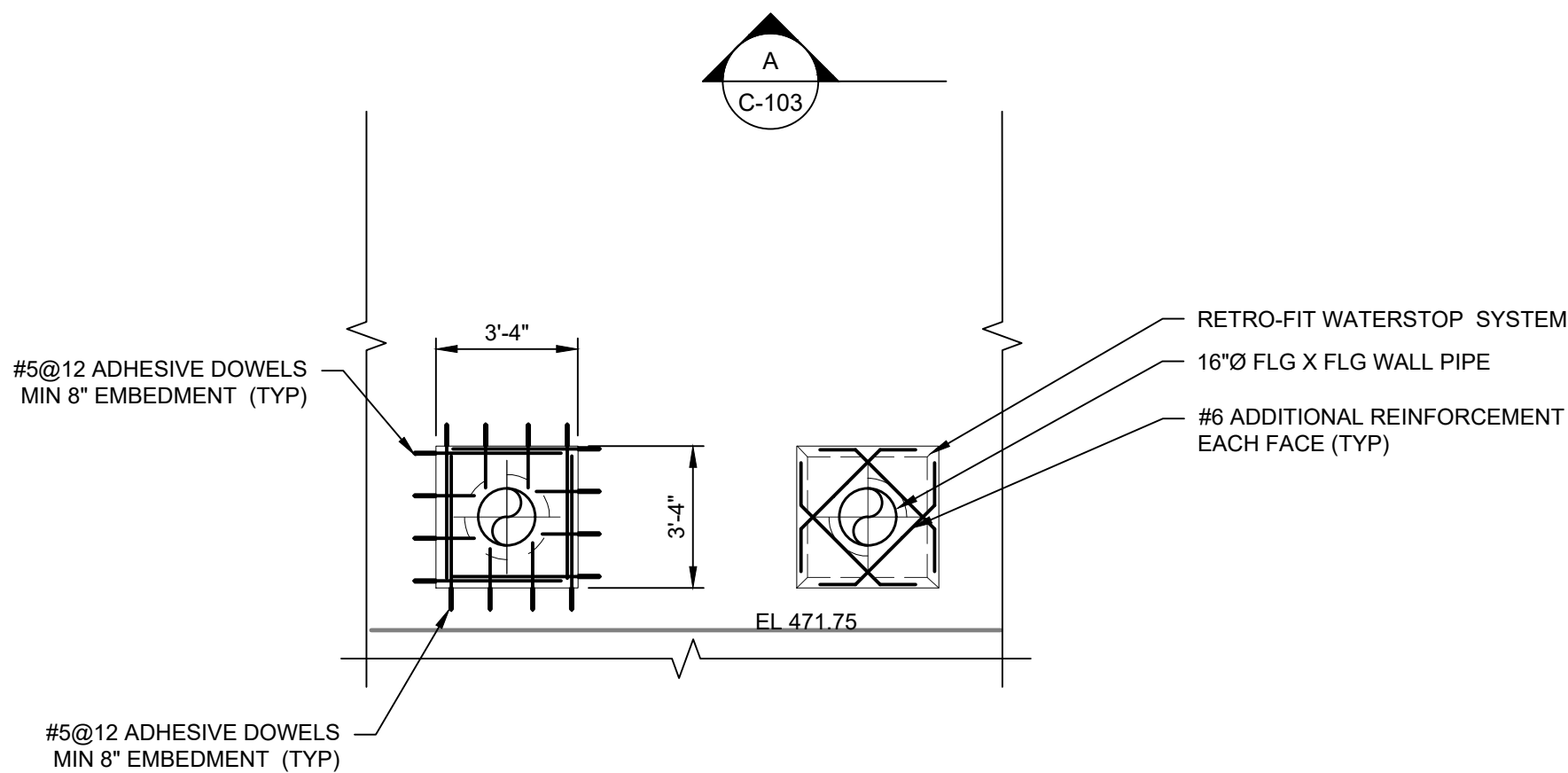
TYPE 'G' PIPE SUPPORT
NOT TO SCALE



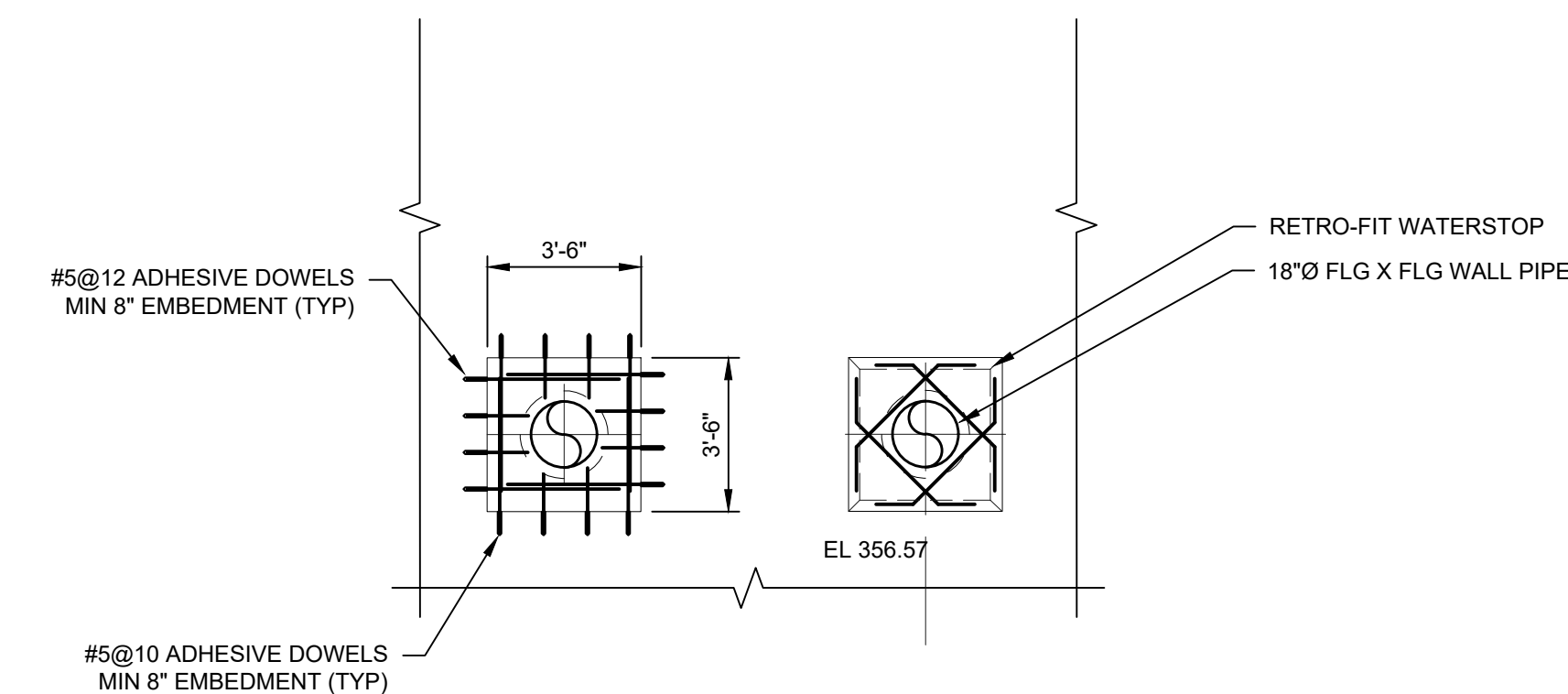
WALL PENETRATION - DOUBLE MECHANICAL SEAL
NOT TO SCALE



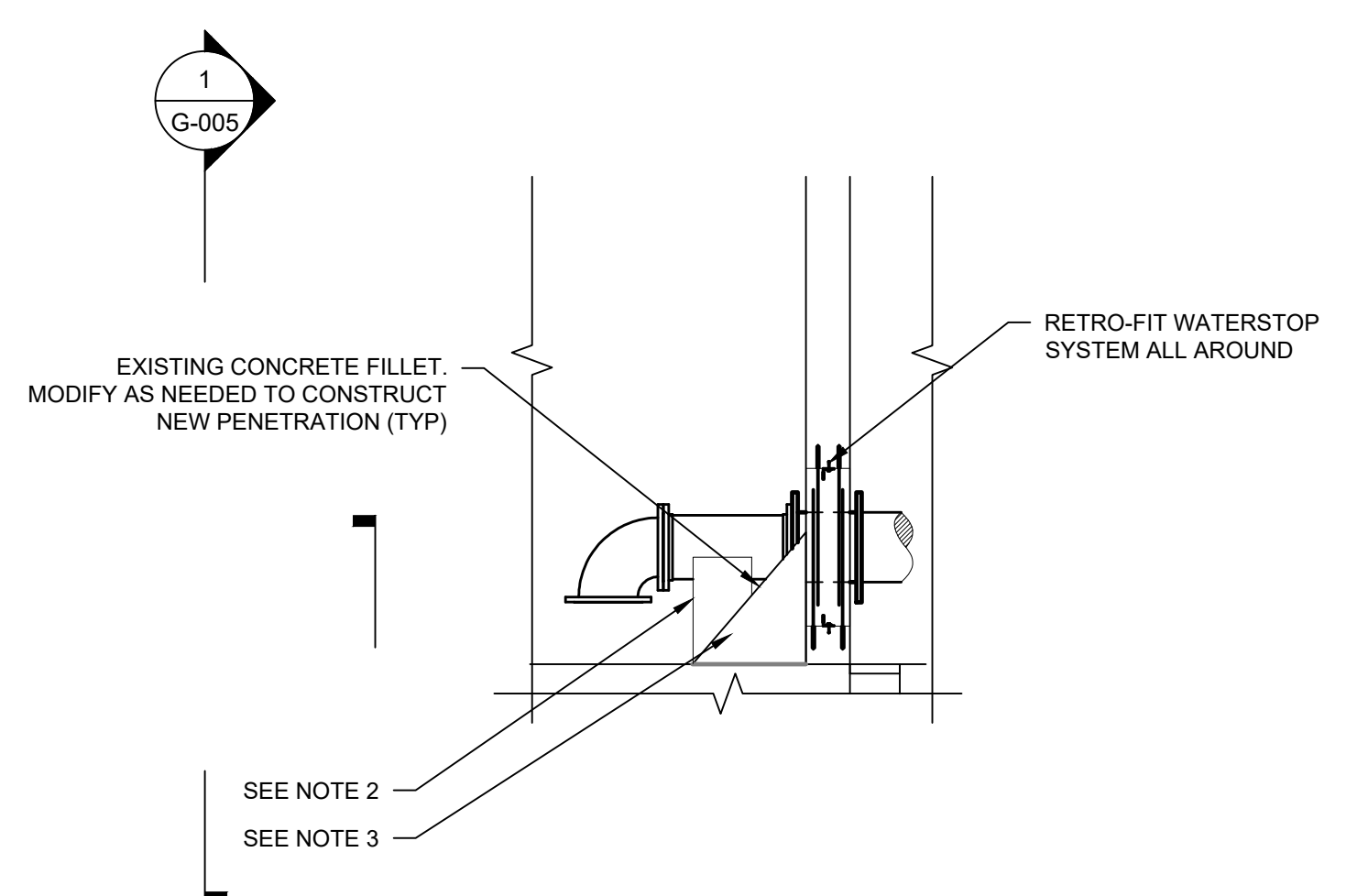
TYPICAL EQUIPMENT/PUMP PAD HOUSEKEEPING PAD
REINFORCEMENT FOR CONCRETE PADS
NOT TO SCALE



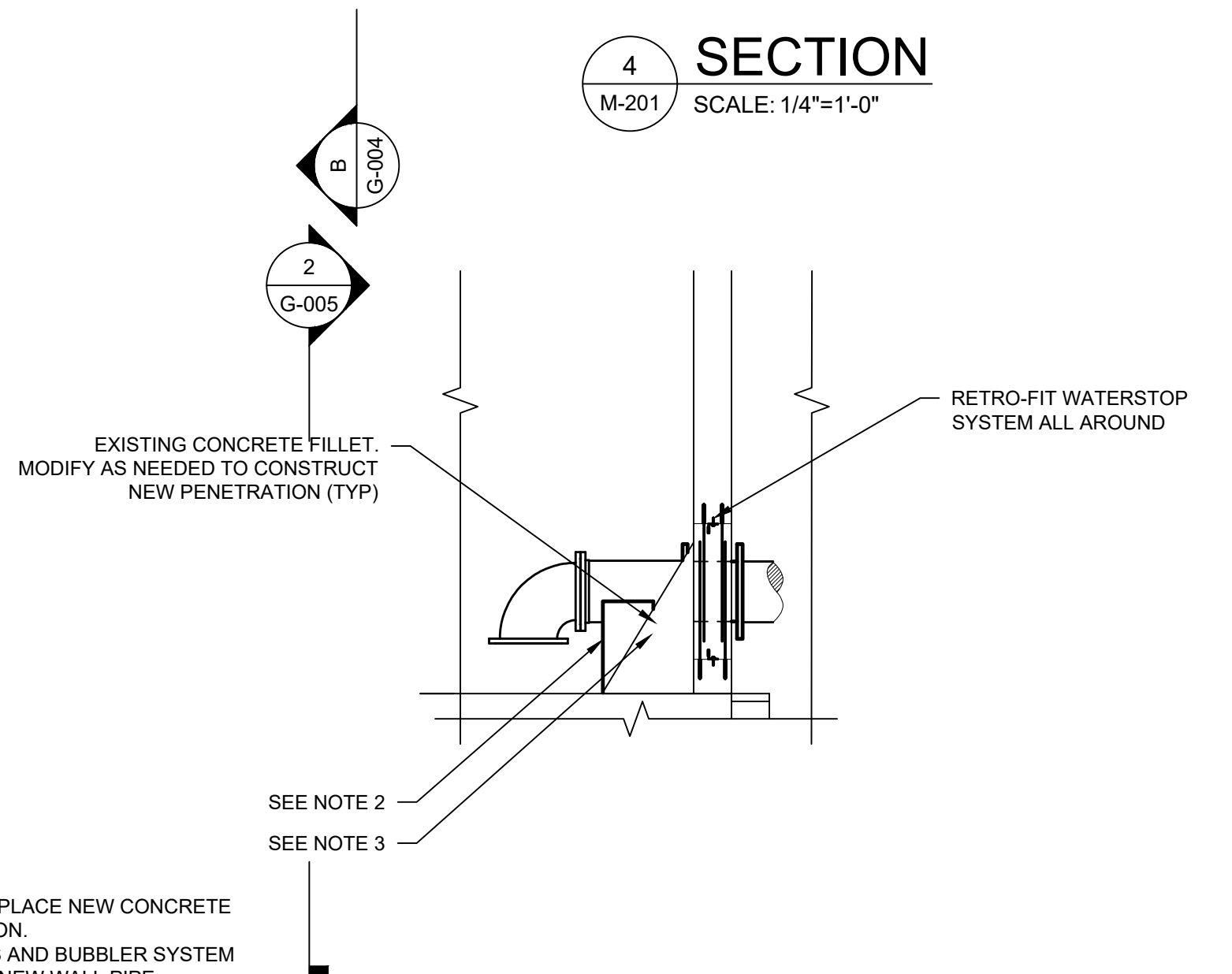
3 ELEVATION
M-201 SCALE: 1/4"=1'-0"



3 ELEVATION
M-101 SCALE: 1/4"=1'-0"



4 SECTION
M-201 SCALE: 1/4"=1'-0"



4 ELEVATION
M-101 SCALE: 1/4"=1'-0"

NOTES:

1. DEMOLISH ONE OPENING AT A TIME. PLACE NEW CONCRETE PRIOR TO CUTTING NEW PENETRATION.
2. DEMOLISH EXISTING PIPE SUPPORTS AND BUBBLER SYSTEM SUPPORT AS REQUIRED TO INSTALL NEW WALL PIPE.
3. WHERE CONCRETE FILLET IS DEMOLISHED OR DAMAGED, REPAIR CONCRETE BACK TO ITS ORIGINAL PROFILE.

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such alteration and a specific description of the
alteration."



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**
DRAWING TITLE: **MISCELLANEOUS DETAILS III**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT		DRAWING NUMBER	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	1		G-005	
1	04/22	60 PERCENT DESIGN REVIEW	MJL						
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET				
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET				
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET				
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET				
6	06/23	FOR BID	MJL	RRS	MET				

CONTRACT# RFB-RC-SWR-2022-06

EDR JOB# **21213**

DATE: **06/2023**

SCALE: **AS SHOWN**

DRAWN BY: **TJF**

CHECKED BY: **RRS**

DRAWING NUMBER:



0 1'-0" 2'-0" 3'-0" 4'-0"

SCALE 1/2"=1'-0" AT ORIGINAL SIZE

CONTRACT:# RFB-RC-SWR-2022-06

DRAWINGS ISSUED FOR / REVISIONS						EDR JOB#: 21213	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE	06/2023
1	04/22	60 PERCENT DESIGN REVIEW	MJL			SCALE:	AS NOTED
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWN BY:	MJL
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	CHECKED BY:	RRS
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER:	G-006
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET		
6	06/23	FOR BID	MJL	RRS	MET		

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The following is paraphrased from the New York Education Law, Article 145, Section 7209, and Chapter II, Section 79-1.4, and applies to this drawing: "It is a violation of this law for any person unless he is acting under the direction of a licensed professional engineer, licensed landscape architect or licensed land surveyor to alter in any way, if an item bearing the seal of an engineer, landscape architect or land surveyor is altered, the altering engineer, landscape architect or land surveyor shall affix to the item his seal and the notation "altered" followed by his signature and the date of such alteration and a specific description of the alteration".



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

DRAWING TITLE: **UNION HILL AND TALLMAN FORCEMAIN AIR RELEASE AND CLEANOUT MANHOLE PLANS AND SECTIONS**

CONTRACT
1


1 SKIP LINE 1 SKIP LINE

















30' 30'

10' 10' 10'

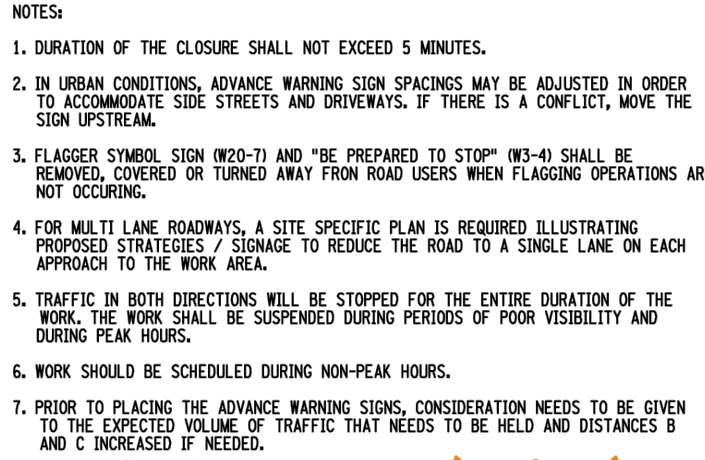
EXISTING NORMAL BROKEN LANE LINE

DETAIL 011A - EXISTING SKIP LINES

 <p>NEW YORK STATE OF OPPORTUNITY.</p>	<p>Department of Transportation</p>
<p>U.S. CUSTOMARY STANDARD SHEET</p>	
<p>WORK ZONE TRAFFIC CONTROL GENERAL TABLES AND LEGEND</p>	
<p>APPROVED DECEMBER 21, 2022</p>	<p>ISSUED UNDER E1 22-03</p>
<p><i>Robert Limoges</i> _____ ROBERT LIMOGES, P.E. DIRECTOR, RTSM.</p>	<p>619-011</p>

WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	SIGN, TEMPORARY
	SPOTTER
	TEMPORARY POSITIVE BARRIER
	TEMPORARY POSITIVE BARRIER WITH WARNING LIGHTS
	TEMPORARY TRAFFIC SIGNAL HEAD
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK AREA
	WORK VEHICLE
	WORK VEHICLE MULCHING/VERBICIDE OPERATION
	WORK VEHICLE PAVEMENT MARKING
	WORK VEHICLE (SIGNAL WORK)
	PROTECTIVE VEHICLE
	PROTECTIVE VEHICLE LIGHT
	PROTECTIVE VEHICLE HEAVY
	TRUCK/TRAILER MOUNTED IMPACT ATTENUATOR (TMA)


APPROVED DECEMBER 21, 2022	ISSUED UNDER EI 22-03
<u>Robert Limoges</u> ROBERT LIMOGES, P.E. DIRECTOR, QISM	619-011



PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE (FT.)/ # OF SKIP LINES
25	155/4
30	200/5
35	250/6
40	305/7
45	360/8
50	425/11
55	495/13

SIGN	NON-FREEWAY	FREEWAY
W3-4	36x36	48x48
W20-1	36x36	48x48
W20-7	36x36	48x48
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

 <p>NEW YORK STATE OF OPPORTUNITY.</p>	<p>Department of Transportation</p>
<p>U.S. CUSTOMARY STANDARD SHEET</p>	
<p>WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY TEMPORARY ROAD CLOSURE</p>	
<p>APPROVED DECEMBER 2, 2021</p>	<p>ISSUED UNDER EI 21-028</p>
<p><i>Robert Limoges</i> _____ ROBERT LIMOGES, P.E. <small>REGISTERED PROFESSIONAL</small></p>	<p>619-090</p>

1. CONTRACTOR SHALL SUBMIT WORK ZONE TRAFFIC CONTROL FOR WORK AT DUNNIGAN DRIVE PREPARED AND SIGNED BY A NYS PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO HIGHWAY WORK PERMIT.
2. CONTRACTOR SHALL SCHEDULE WORK AT DUNNIGAN DRIVE SUCH THAT ALL DISTURBED SURFACES SHALL BE PAVED, TEMPORARY OR PERMANENT BY FRIDAY 3PM. TEMPORARY PAVEMENT SHALL BE INSTALLED MEETING FLUSH WITH ADJACENT UNDISTURBED SURFACES.

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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

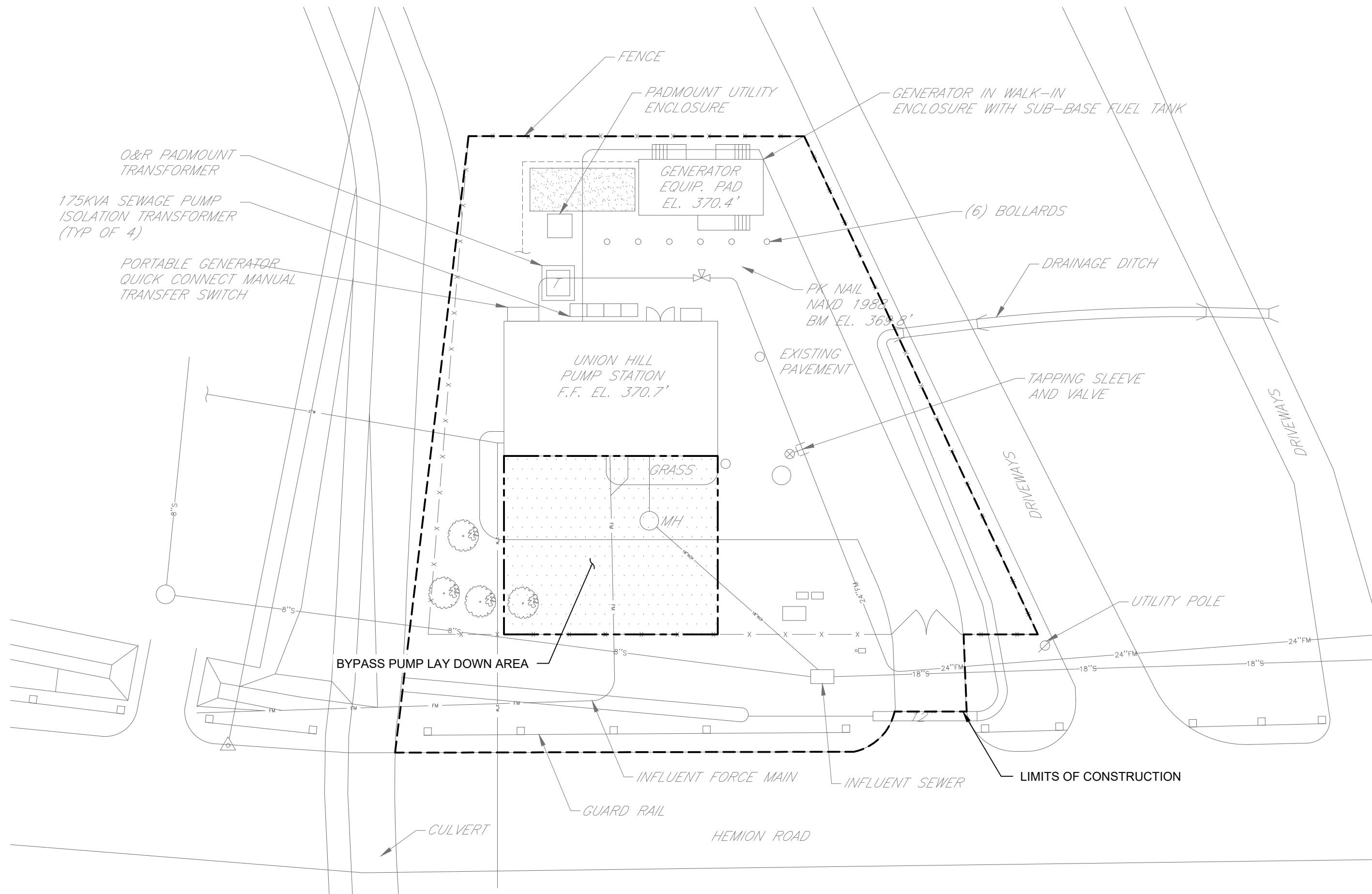
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

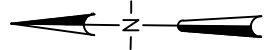
DRAWING TITLE: **TRAFFIC CONTROL PLAN**

DRAWINGS ISSUED FOR / REVISIONS						EDR JOB# 21213	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE	06/2023
1	04/22	60 PERCENT DESIGN REVIEW		MIL		SCALE	AS SHOWN
2	07/22	90 PERCENT DESIGN REVIEW		MIL	RRS	DRAWN BY:	TJF
3	09/22	FOR REGULATORY REVIEW		MIL	RRS	CHECKED BY:	RRS
4	01/23	100 PERCENT DESIGN REVIEW		MIL	RRS	DRAWING NUMBER:	G-007
5	03/23	100 PERCENT DESIGN REVIEW		MIL	RRS		
6	06/23	FOR BID		MIL	RRS		

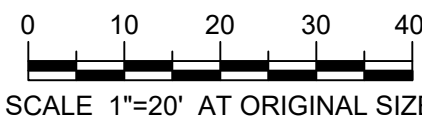
7/27/23 Rockland Union Hill and Tallman PSCraftWorking Drawings/06/21213-C-101.dwg Date Printed: 01/16/2023 10:58:56 AM



SITE PLAN
SCALE:1"=20'-0"



- NOTES:
1. SITE PLAN TAKEN FROM EXISTING ROCKLAND COUNTY SEWER DISTRICT NO. 1 DRAWINGS, CONTRACT NO. RFB-RC-SWR-2018-02E, DATED MARCH 2018.
 2. COORDINATE FINAL BYPASS PUMP AREA WITH OWNER



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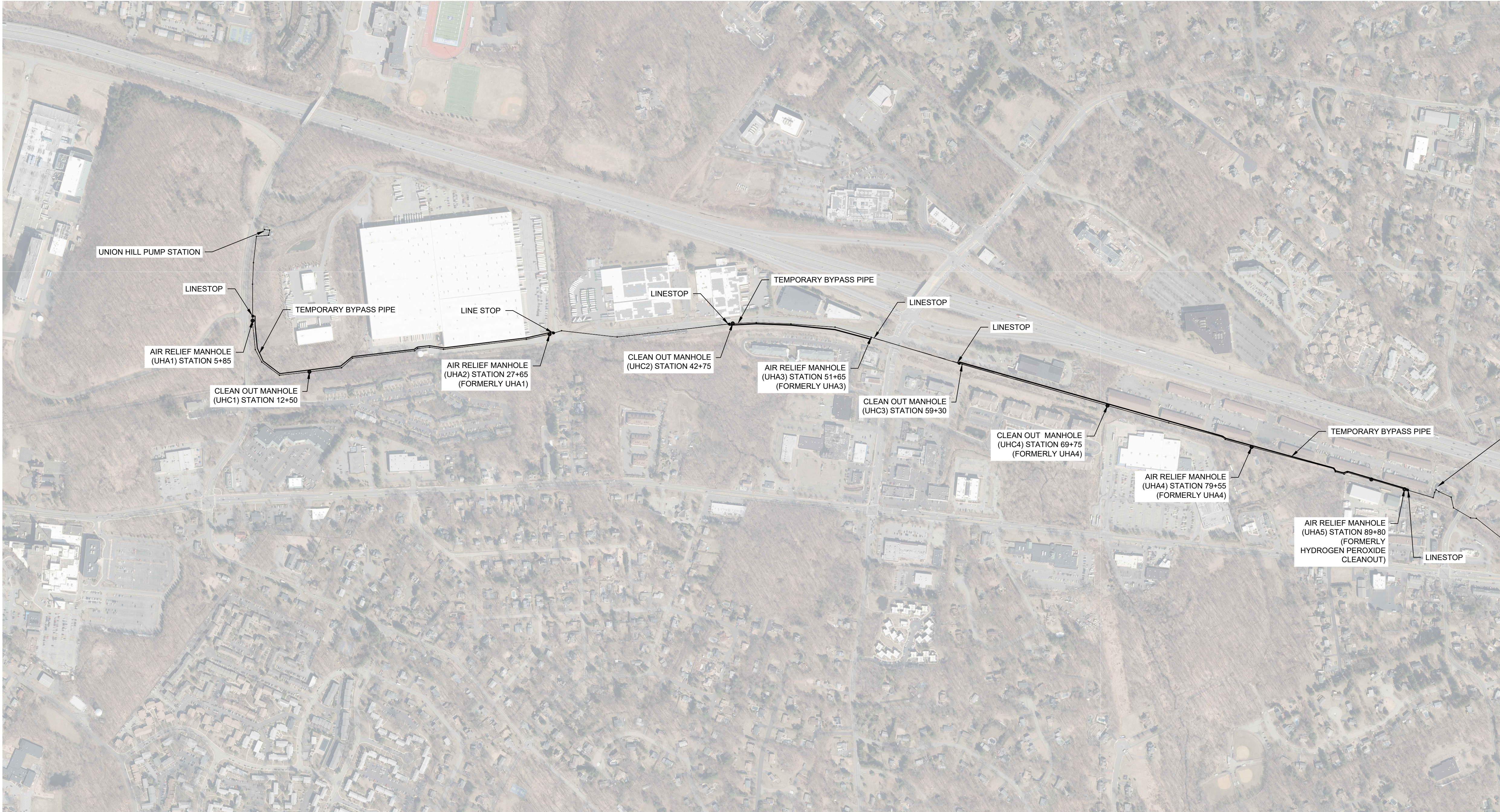
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217 Montgomery Street, Suite 1100
Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**
DRAWING TITLE: **UNION HILL PUMP STATION
SITE PLAN**

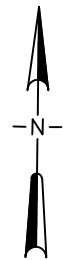
DRAWINGS ISSUED FOR / REVISIONS						CONTRACT		DRAWING NUMBER:	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	1	1	C-101	
1	04/22	60 PERCENT DESIGN REVIEW	MJL						
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET				
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET				
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET				
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET				
6	06/23	FOR BID	MJL	RRS	MET				

7/27/23 Rockland Union Hill and Tallman PS/Craft/Wiring Drawings/2023/2121-C-102.dwg Date Printed: 01/16/2023 10:58:37 AM



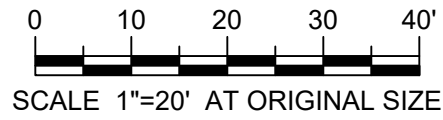
Station	Label	Type	Notes
5+85	UHA1	4 in. #49A/304 Dual Body Combo	Air Relief Manhole
12+50	UHC1	Cleanout	Existing Manhole
27+65	UHA2	2 in. #302A Air/Vacuum	Existing Manghole
42+75	UHC2	Cleanout	Existing Manhole
51+65	UHA3	3 in. #303A Air/Vacuum	Existing Manhole, formerly UHA2
59+30	UHC3	Cleanout	Existing Manhole
69+75	UHC4	Cleanout	Existing Manhole
79+55	UHA4	4 in. #304 Air/Vacuum	Existing Manhole, formerly UHA3
89+80	UHA5	4 in. #49A/304 Dual Body Combo	Existing Manhole

AIR RELEASE/CLEANOUT MH LOCATION AND TEMPORARY BYPASS PIPE PLAN
NOT TO SCALE



NOTES:

1. INFORMATION FOUND ON THIS DRAWING HAS BEEN DERIVED FROM THE LATEST AVAILABLE INFORMATION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING INFORMATION IN THE FIELD. IF ANY DISCREPANCIES ARISE FROM THESE FILED INVESTIGATIONS, CONTRACTOR SHALL NOTIFY ENGINEER/OWNER.



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **UNION HILL FORCEMAIN AIR RELEASE AND CLEANOUT MANHOLE
LOCATION PLAN**

CONTRACT
1

DRAWINGS ISSUED FOR / REVISIONS					
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	MJL		
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
6	06/23	FOR BID	MJL	RRS	MET

CONTRACT# RFB-RC-SWR-2022-06

EDR JOB# **21213**

DATE: **06/2023**

SCALE: **1"=20'-0"**

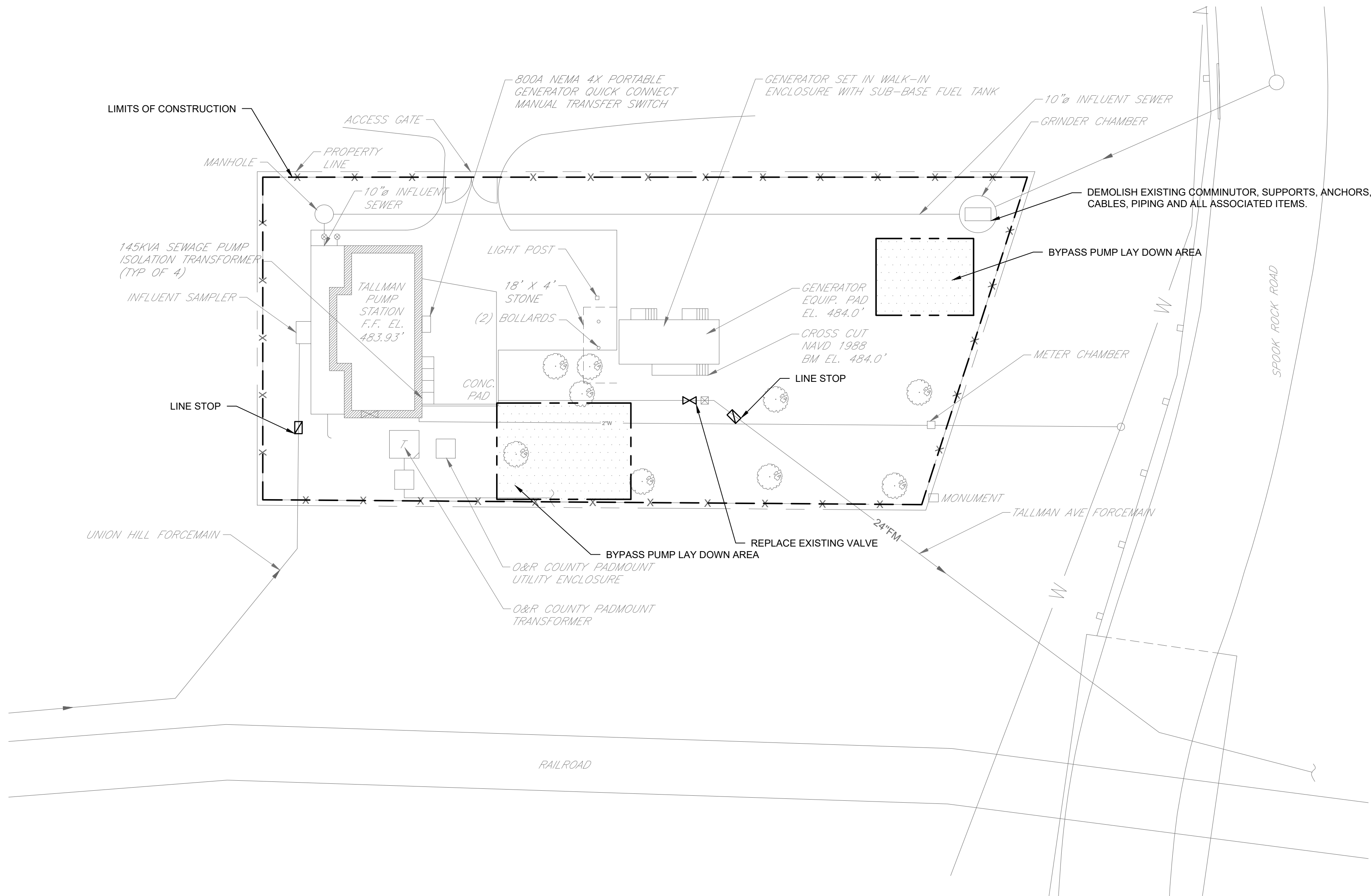
DRAWN BY: **MJL**

CHECKED BY: **RRS**

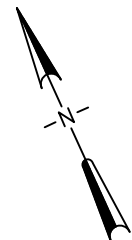
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C-102

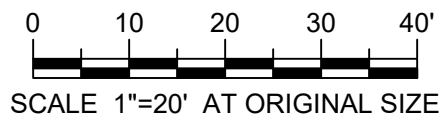
7/2/2023 10:56:15 AM
7/2/2023 Rockland Union Hill and Tallman PS Craft Working Drawings/06/2023 C-201.dwg



SITE PLAN
SCALE: 1"=20'-0"



- NOTES:
1. SITE PLAN TAKEN FROM EXISTING ROCKLAND COUNTY SEWER DISTRICT NO. 1 DRAWINGS, CONTRACT NO. RFB-RC-SWR-2018-02E, DATED MARCH 2018.
 2. COORDINATE FINAL BYPASS PUMP AREA WITH OWNER



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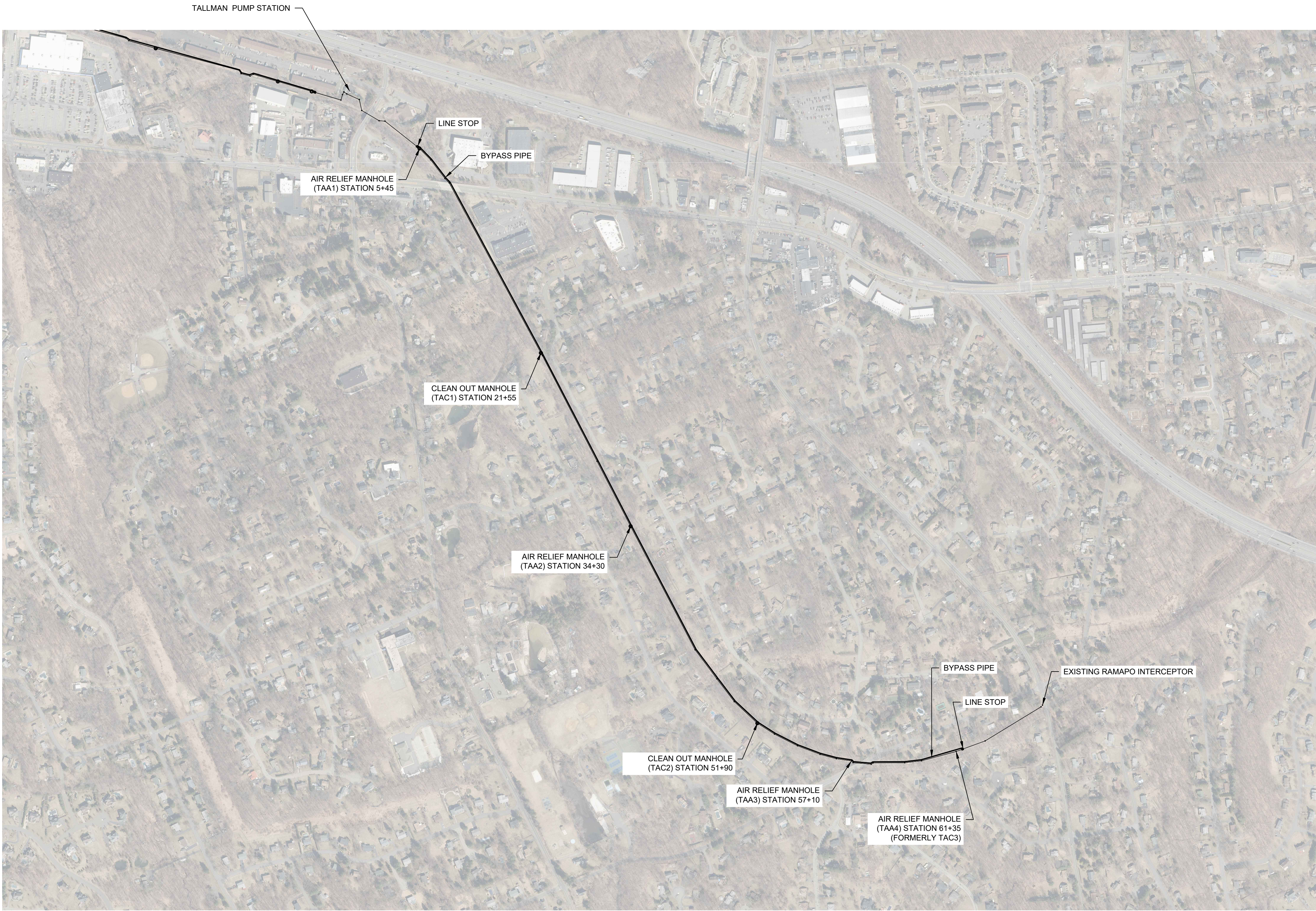
**Environmental
Design & Research,**
Landscape Architecture, Engineering
& Environmental Services, D.P.C.
217 Montgomery Street, Suite 1100
Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**
DRAWING TITLE: **TALLMAN PUMP STATION
SITE PLAN**

CONTRACT
1

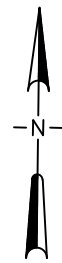
DRAWINGS ISSUED FOR / REVISIONS					
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	MJL		
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
6	06/23	FOR BID	MJL	RRS	MET

CONTRACT# RFB-RC-SWR-2022-06
EDR JOB# **21213**
DATE: **06/2023**
SCALE: **1"=20'-0"**
DRAWN BY: **MJL**
CHECKED BY: **RRS**
DRAWING NUMBER:
C-201

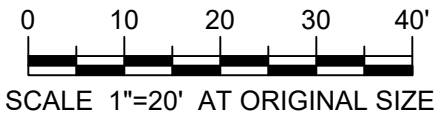


Station	Label	Type	Notes
5+45	TAA1	2 in. #302A Air/Vacuum	Existing Manhole
21+55	TAC1	Cleanout	Existing Manhole
34+30	TAA2	4 in. #49A/304 Dual Body Combo	Existing Manhole
51+90	TAC2	Cleanout	Existing Manhole
57+10	TAA3	3 in. #303A Air/Vacuum	Existing Manhole
61+35	TAA4	4 in. #49A/304 Dual Body Combo	Existing Manhole, formerly TAC3

AIR RELEASE/CLEANOUT MH LOCATION AND BYPASS PIPE PLAN
NOT TO SCALE



- NOTES:
1. INFORMATION FOUND ON THIS DRAWING HAS BEEN DERIVED FROM THE LATEST AVAILABLE INFORMATION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING INFORMATION IN THE FILED. IF ANY DISCREPANCIES ARISE FROM THESE FILED INVESTIGATIONS, CONTRACTOR SHALL NOTIFY ENGINEER/OWNER.



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

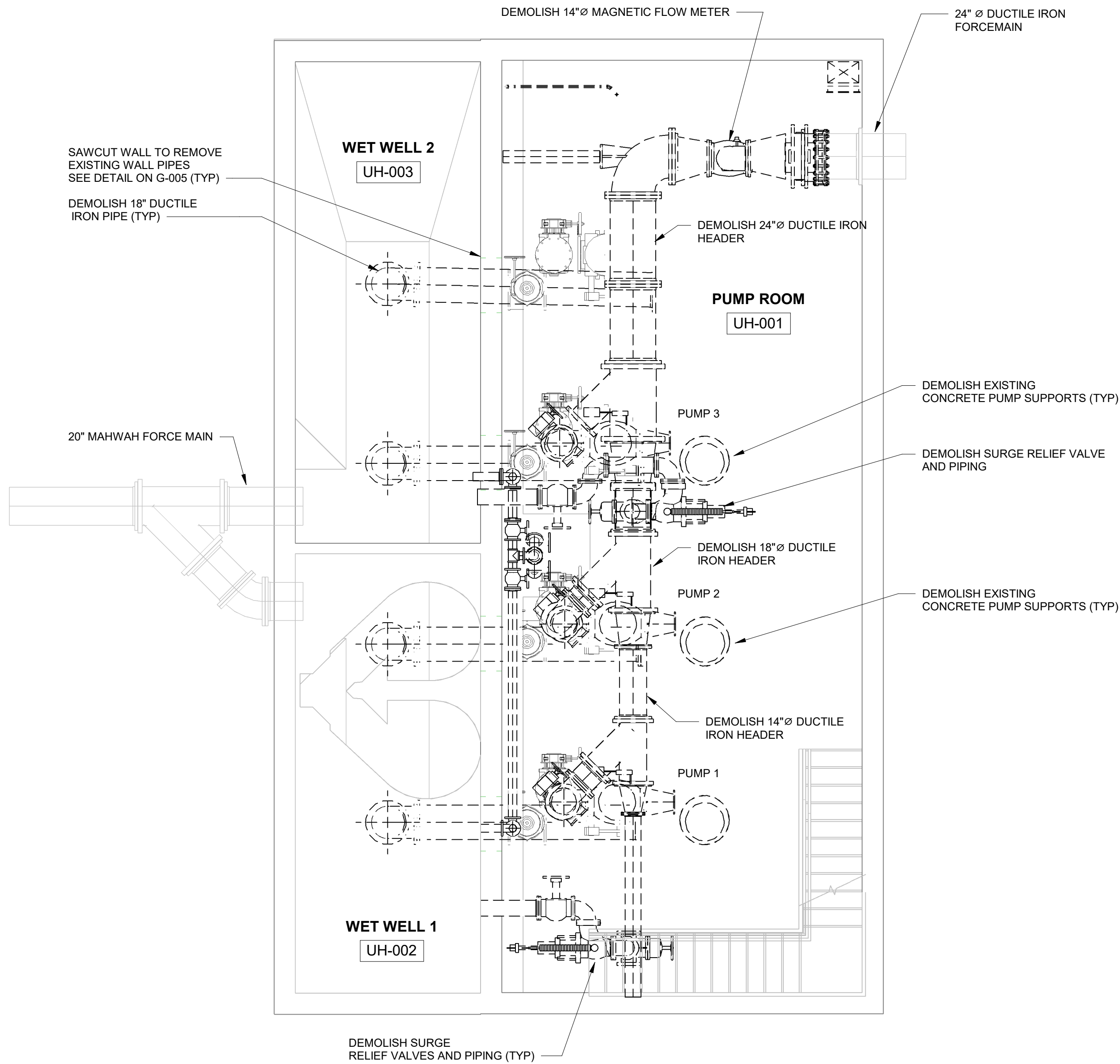
DRAWING TITLE: **TALLMAN FORCEMAIN AIR RELEASE AND CLEANOUT MANHOLE
LOCATION PLAN**

DRAWINGS ISSUED FOR / REVISIONS

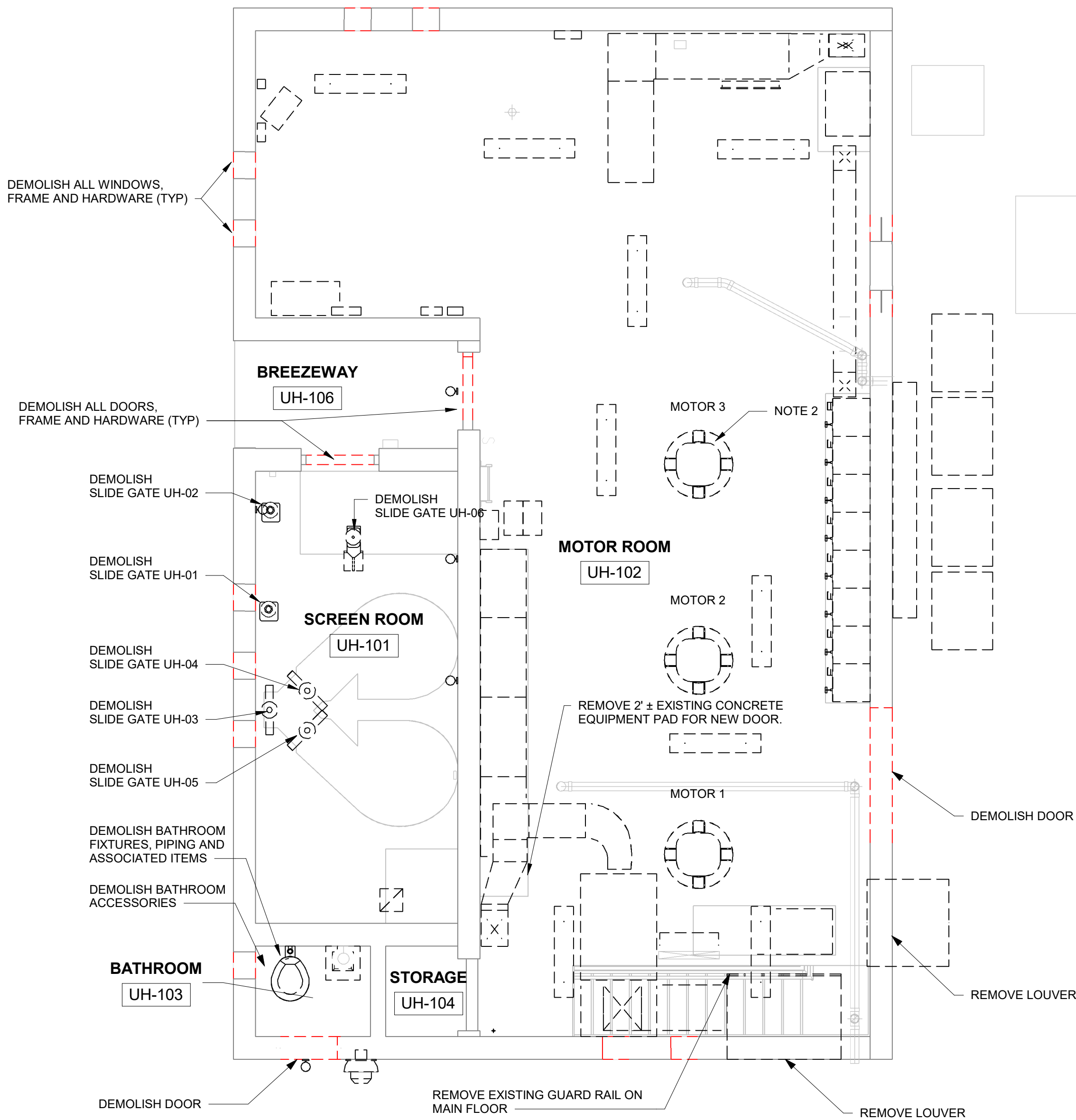
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP
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2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
6	06/23	FOR BID	MJL	RRS	MET

CONTRACT
1

CONTRACT# RFB-RC-SWR-2022-06
EDR JOB# 21213
DATE: 06/2023
SCALE: NOT TO SCALE
DRAWN BY: MJL
CHECKED BY: RRS
DRAWING NUMBER: C-202



LOWER LEVEL- DEMOLITION PLAN
1/4" = 1'-0"



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

- NOTES:**
- DEMOLISH ALL PIPING, FITTINGS, SUPPORTS, HANGERS AND ALL ASSOCIATED ITEMS.
 - DEMOLISH EXISTING PUMPS, MOTORS, SHAFTS, SUPPORTS AND ASSOCIATED ITEMS.
 - DEMOLISH ALL PLUMBING PIPING, HOSE BIBS, SUPPORTS AND ASSOCIATED ITEMS.
 - DEMOLISH ALL BATHROOM FIXTURES, PIPING, ACCESSORIES AND ASSOCIATED ITEMS.

GENERAL DEMOLITION NOTES:

- LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE. ACTUAL LIMITS SHALL BE THE MINIMUM REQUIRED FOR COMPLETE DEMOLITION OF THE EXISTING STRUCTURE, EQUIPMENT, AND ITEMS DESIGNATED FOR REMOVAL IN THEIR ENTIRETY, AND/OR TO ALLOW FOR THE CONSTRUCTION OF ALL NEW OR REHABILITATED STRUCTURES AND EQUIPMENT. LIMITS OF DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL RELATED AND/OR CONNECTED APPURTENANCES TO ITEMS DESIGNATED FOR DEMOLITION.
- ITEMS SHOWN AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
- EXISTING PIPE ELEVATIONS ARE SHOWN APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND CONDITIONS.
- PROTECT EXISTING STRUCTURES, EQUIPMENT AND PIPING TO REMAIN DURING DEMOLITION. SUCH PROTECTION MAY INCLUDE BUT NOT BE LIMITED TO TEMPORARY ENCLOSURES, FRAMING, SHIELDING, EQUIPMENT AND APPURTENANCES. ACCESS BY PLANT PERSONNEL TO OPERATE FACILITIES, EQUIPMENT AND PIPING SHALL BE MAINTAINED AT ALL TIMES.
- ALL DEMOLITION DEBRIS SHALL BE REMOVED AND DISPOSED OF AT A PERMITTED SOLID WASTE MANAGEMENT FACILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED TIPPING FEES, COSTS FOR REMOVAL AND PROCUREMENT OF ANY REQUIRED PERMITS AND TRANSPORTATION COSTS.
- UNLESS SHOWN OTHERWISE, REMOVAL OF PIPING, CONVEYORS AND OTHER FACILITIES EXTENDING THROUGH WALLS AND SLABS SHALL INCLUDE THE REMOVAL OF ASSOCIATED WALL/SLAB CASTINGS, SLEEVES AND SHALL INCLUDE THE PATCHING AND SEALING OF THE OPENING AS SPECIFIED, OR AS SHOWN ON DRAWINGS.
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- FLOOR DRAINS, GUTTERS, SUMPS AND CATCH BASINS SHALL BE PROTECTED AT ALL TIMES DURING DEMOLITION. FLOOR DRAINS AND GUTTERS SHALL BE MECHANICALLY CLEANED AND PROTECTED AT THE COMPLETION OF OPERATIONS IN A PARTICULAR AREA.
- ALL EXISTING CONCRETE TO BE DEMOLISHED IS STEEL REINFORCED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE WITH OWNER/ENGINEER FOR ITEMS NOT SPECIFICALLY DESIGNATED FOR DEMOLITION THAT NECESSITATE TEMPORARY REMOVAL OR RELOCATION TO FACILITATE NEW CONSTRUCTION. REFER TO SPECIFICATIONS.
- OWNER RESERVES THE RIGHT TO SALVAGE DEMOLISHED EQUIPMENT AND MATERIALS. CONTRACTOR SHALL COORDINATE WITH THE OWNER.
- CONDUCT DEMOLITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE SEQUENCE OF CONSTRUCTION.
- DEMOLITION SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

0 2'-0" 4'-0" 6'-0"
SCALE 1/4"=1'-0" AT ORIGINAL SIZE



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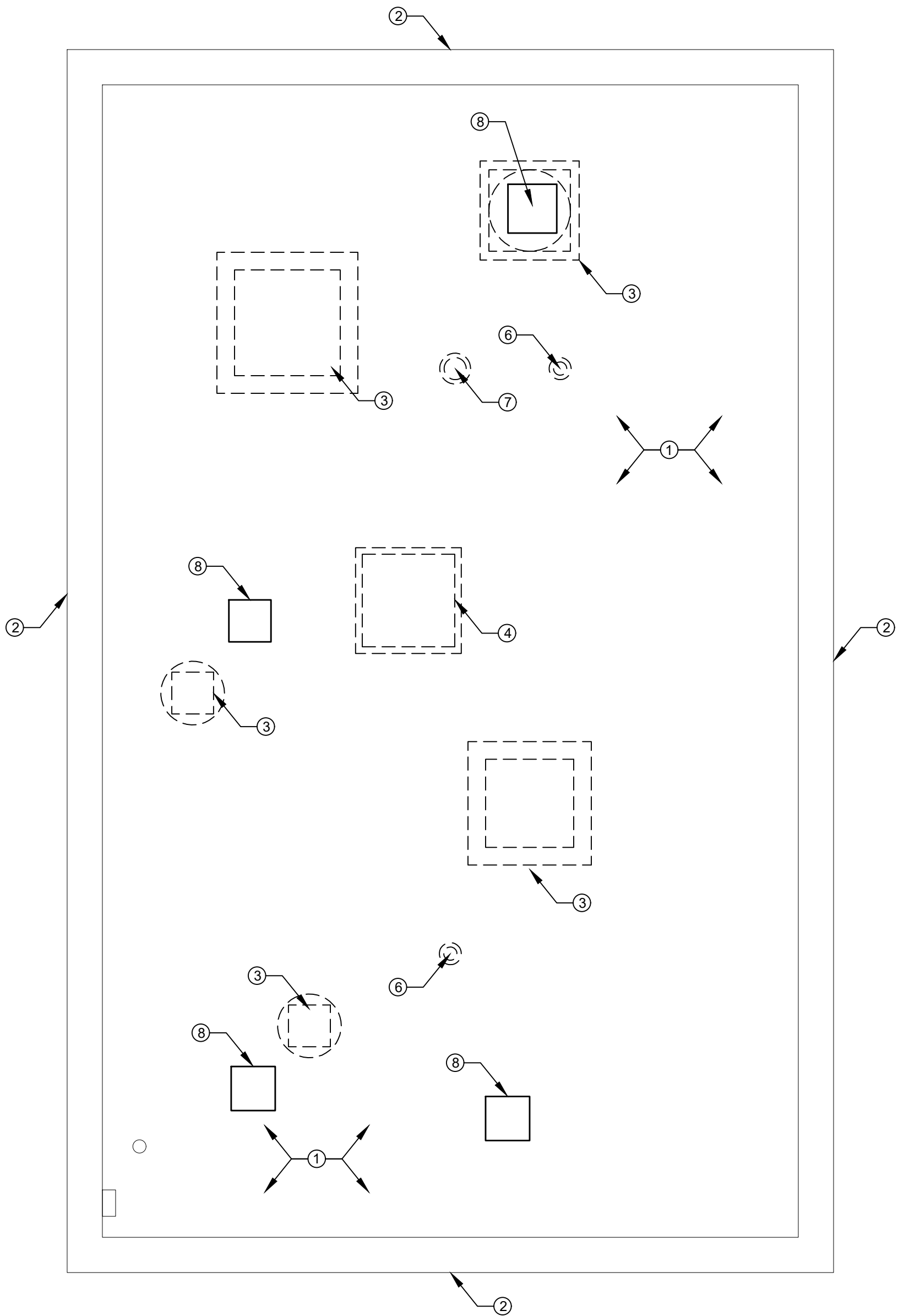
PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADES**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION LOWER LEVEL AND GROUND FLOOR
PLANS**

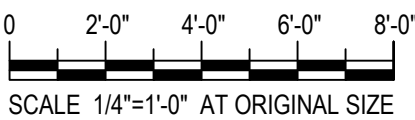
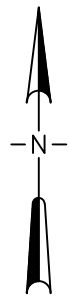
DRAWINGS ISSUED FOR / REVISIONS						CONTRACT # RFB-RC-SWR-2022-06		
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	EDR JOB #21213		
1	04/22	60 PERCENT DESIGN REVIEW	MJL	RRS	MET	DATE: 06/2023		
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	SCALE: 1/4" = 1'-0"		
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWN BY: MJL		
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY: RRS		
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER:		
6	03/23	FOR BID	MJL	RRS	MET	D-101		



- NOTES:**
- ① REMOVE AND DISPOSE OF EXISTING ROOF SYSTEM TO ROOF DECK.
 - ② REMOVE AND DISPOSE OF EXISTING METAL COPING.
 - ③ REMOVE AND DISPOSE OF EXISTING EXHAUST FAN.
 - ④ REMOVE AND DISPOSE OF EXISTING ROOF HATCH AND CURB.
 - ⑤ NOT USED
 - ⑥ REMOVE AND DISPOSE OF EXISTING ROOF DRAIN TO THE DRAIN BOWL.
 - ⑦ REMOVE AND DISPOSE OF EXISTING HOT PIPE TERMINATION.
 - ⑧ LOCATION OF NEW HVAC OPENING

DEMOLITION: ROOF PLAN

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



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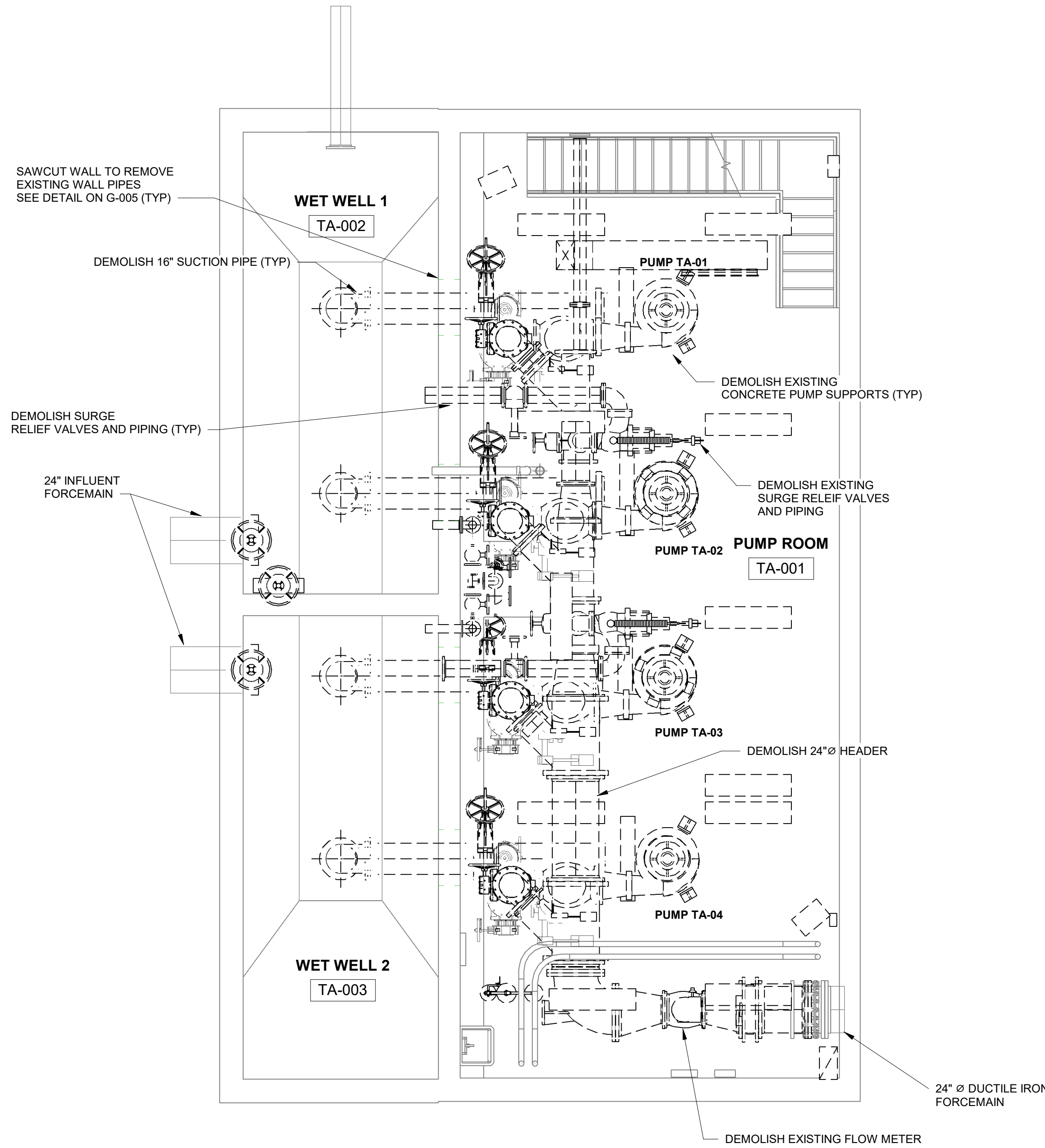
PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

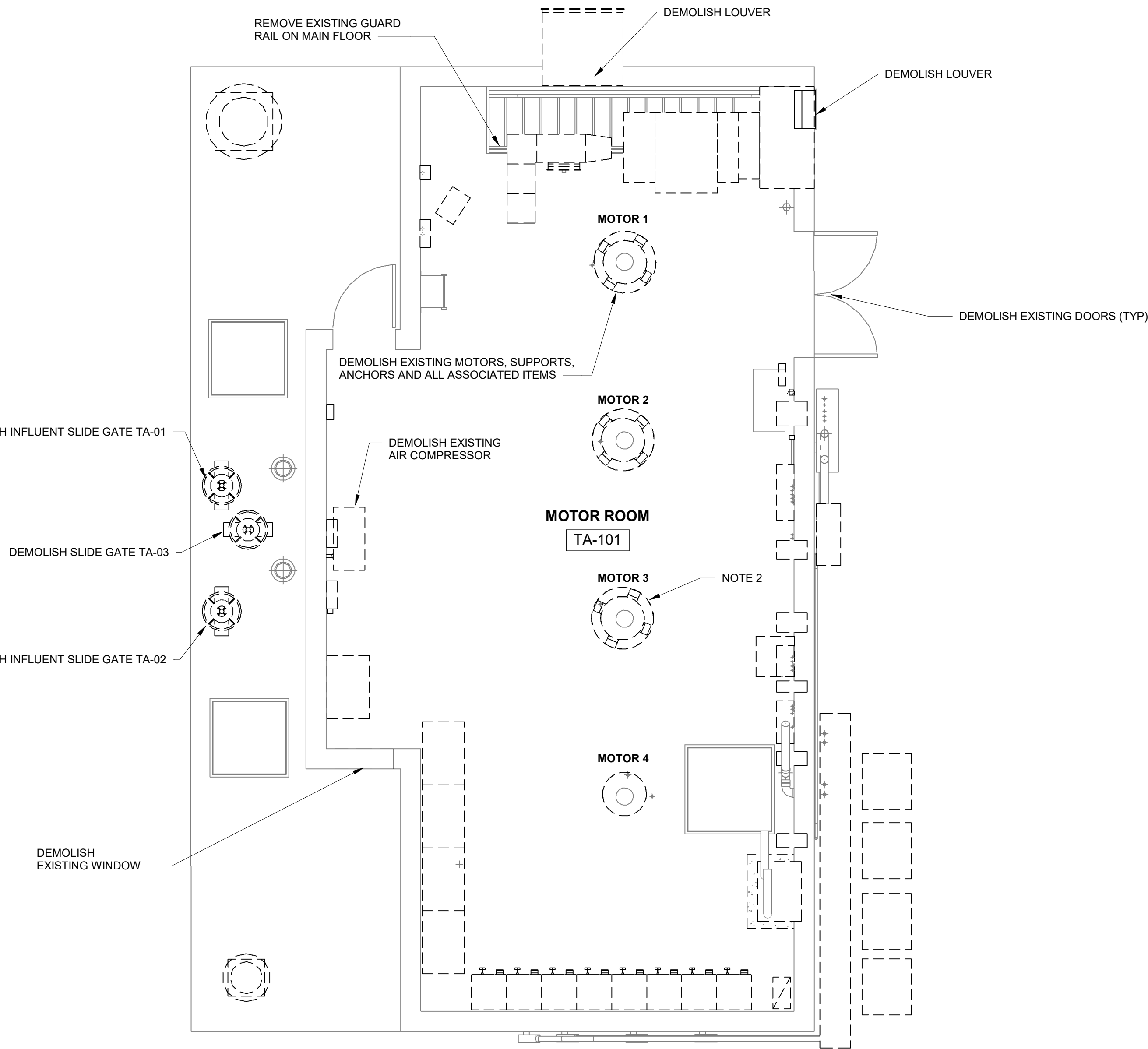
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **UNION HILL PUMP STATION
DEMOLITION ROOF PLAN**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT# RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	EDR JOB# 21213	
1	04/22	60 PERCENT DESIGN REVIEW	MJL			DATE: 06/2023	
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	SCALE: AS NOTED	
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWN BY: MJS	
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY: -	
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER:	
6	06/23	FOR BID	MJL	RRS	MET	D-102	



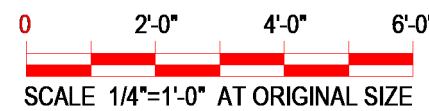
LOWER LEVEL -
DEMOLITION PLAN
1/4" = 1'-0"



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

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CONTRACT# RFB-RC-SWR-2022-06

EDR JOB #21213

DATE: 03/2023

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

DRAWN BY: MJL

CHECKED BY: RRS

DRAWING NUMBER:

D-201



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION DEMOLITION LOWER LEVEL AND GROUND FLOOR
PLANS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	MJL	RRS	MET
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
6	03/23	FOR BID	MJL	RRS	MET

CONTRACT

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the altering engineer, landscape architect or land
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such alteration and a specific description of the
alteration."



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

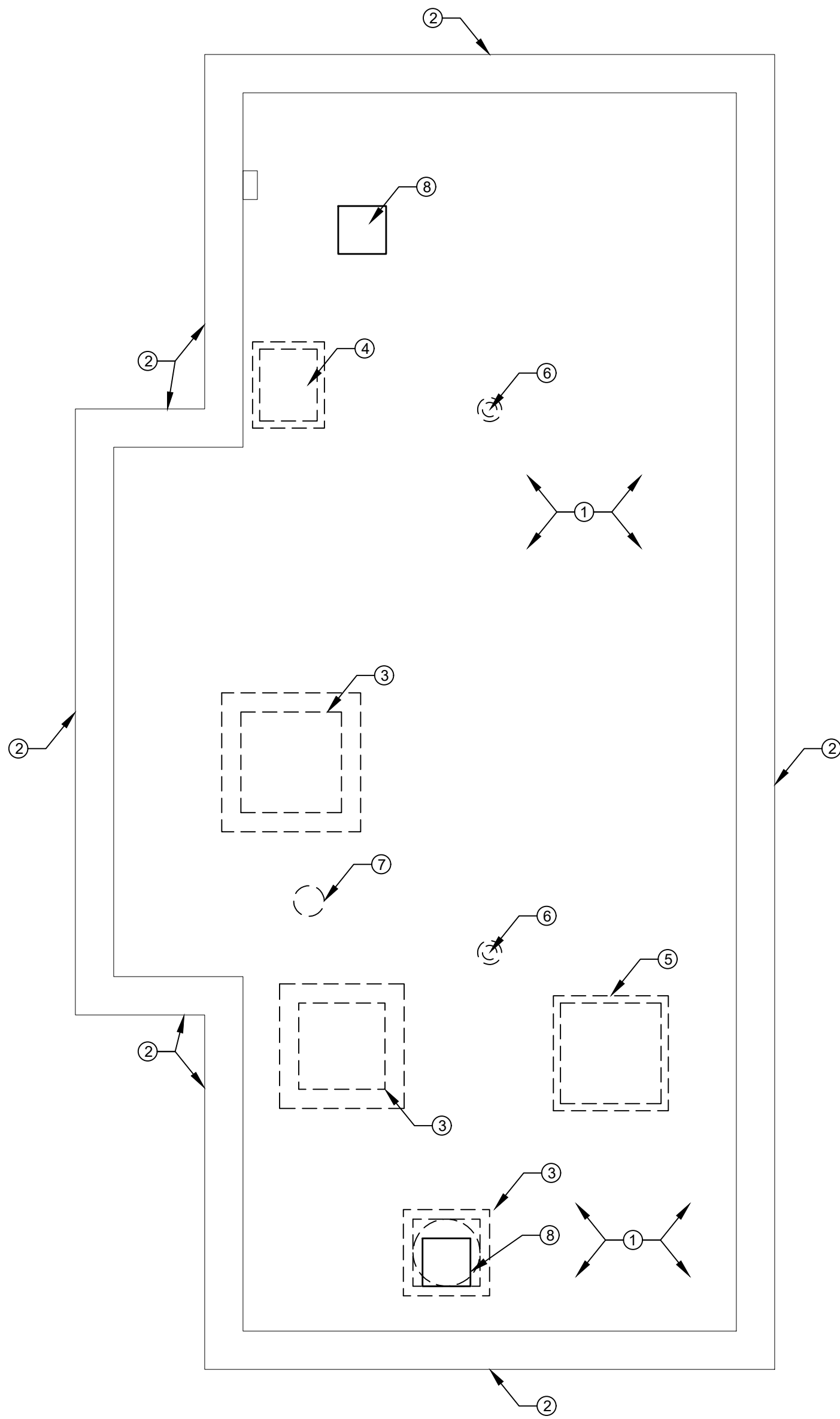
DRAWING TITLE: **TALLMAN PUMP STATION
DEMOLISION ROOF PLAN**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	1	1
1	04/22	60 PERCENT DESIGN REVIEW	MJL				
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET		
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET		
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET		
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET		
6	06/23	FOR BID	MJL	RRS	MET		

EDR JOB# 21213
DATE: 06/2023
SCALE: AS NOTED
DRAWN BY: MJS
CHECKED BY: -
DRAWING NUMBER: D-202

NOTES:

- 1 REMOVE AND DISPOSE OF EXISTING ROOF SYSTEM TO ROOF DECK.
- 2 REMOVE AND DISPOSE OF EXISTING METAL COPING.
- 3 REMOVE AND DISPOSE OF EXISTING EXHAUST FAN.
- 4 REMOVE AND DISPOSE OF EXISTING ROOF HATCH AND CURB.
- 5 REMOVE AND DISPOSE OF EXISTING SKYLIGHT AND CURB.
- 6 REMOVE AND DISPOSE OF EXISTING ROOF DRAIN TO THE DRAIN BOWL.
- 7 REMOVE AND DISPOSE OF EXISTING HOT PIPE TERMINATION.
- 8 LOCATION OF NEW HVAC OPENING



DEMOLITION: ROOF PLAN

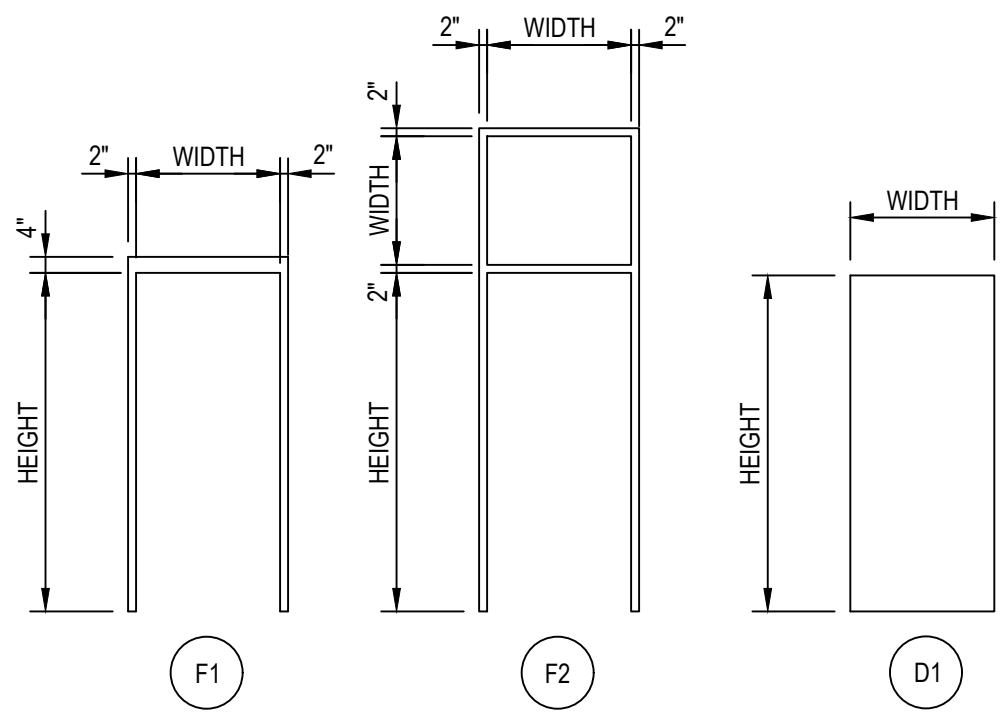
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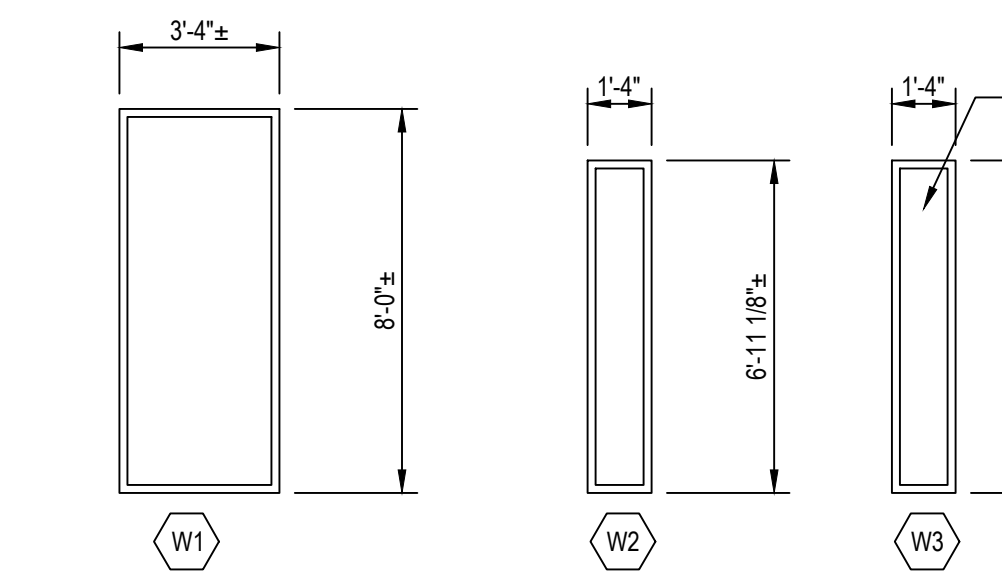
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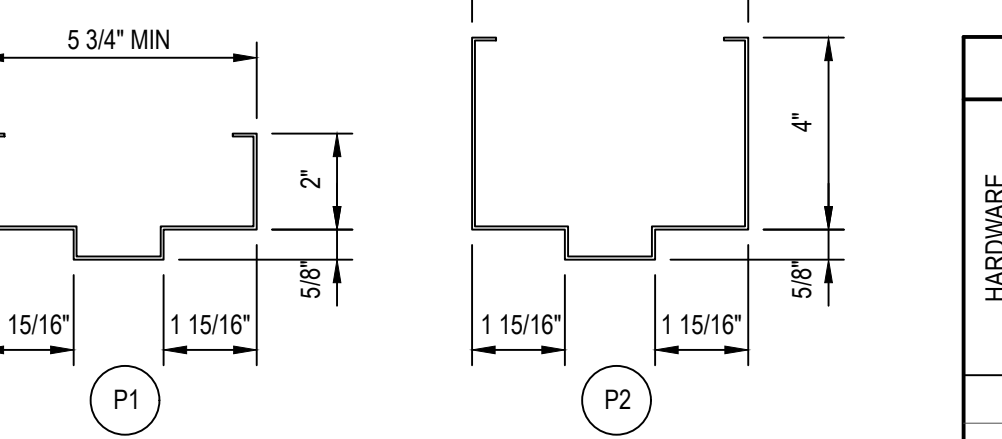
7/27/13 Rockland Union Hill and Tallman PS/Craft/Working Drawings/Architectural/21213-A-001.dwg



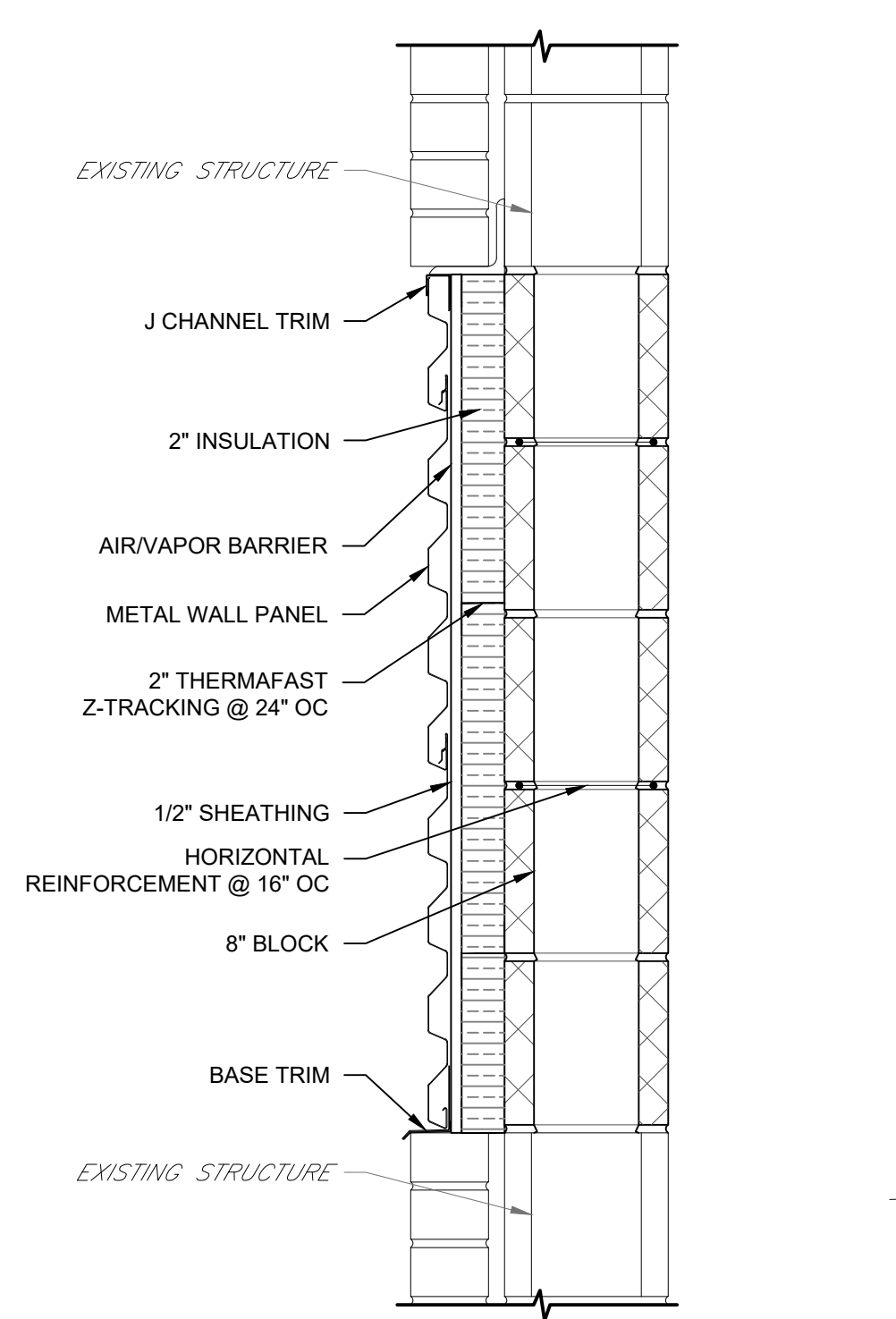
FRAME TYPES
NOT TO SCALE



WINDOW TYPES
NOT TO SCALE



FRAME PROFILES
NOT TO SCALE



WALL INFILL DETAIL
Scale: 1-1/2" = 1'-0"

KEY TO FINISH ABBREVIATIONS:

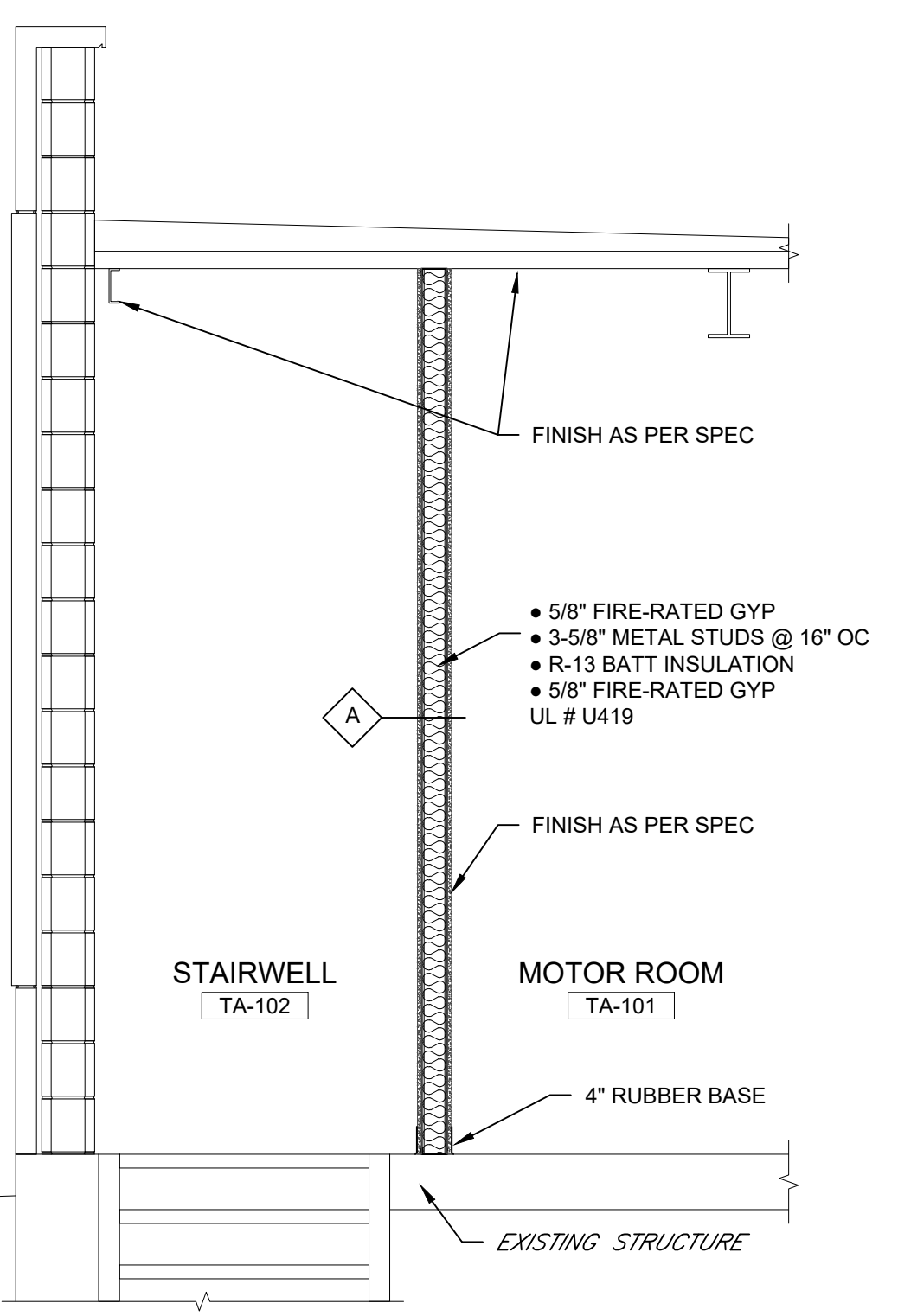
ACT = ACOUSTICAL CEILING TILE
ALUM = ALUMINUM
CLR = COLOR
CMU = CONCRETE MASONRY UNIT
CMUA = ACOUSTICAL CMU
CMUG = GLAZED CMU
CONC = CONCRETE (CAST-IN-PLACE)
CRF = CHEMICAL RESISTANT FINISH
CT = CERAMIC TILE
CCT = CERAMIC COVED TILE
EP = SLIP RESISTANT EPOXY COATING
EX or EXIST = EXISTING
EXP = EXPOSED UNDERSIDE OF ROOF ASSEMBLY (INCLUDES INSULATION & VAPOR RETARDER)
F = LIQUID HARDENED FINISH ON CONCRETE
FCTY = FACTORY FINISH
FIN = FINISH
FRP = FIBERGLASS REINFORCED PLASTIC
FPWD = FIBERGLASS FACED PLYWOOD

GWB = GYPSUM WALL BOARD
HT = HEIGHT
I = SPRAYED URETHANE INSULATION WITH THERMAL BARRIER
MNFR = MANUFACTURER SUPPLIED
MATL = MATERIAL
NO = NUMBER
PLANK = PRECAST CONCRETE PLANK
PT = COATING SYSTEM
QT = QUARRY TILE
RB = RUBBER BASE
RSF = RESILIENT SHEET FLOORING
S = CONCRETE FLOOR SEALANT
STL = STEEL
STL/C = STEEL W/ CONCRETE FILL
TBD = TO BE DETERMINED
VIF = VERIFY IN FIELD

KEY TO DOOR SCHEDULE:

ALUM = ALUMINUM
CIT = CLEAR INSULATED TEMPERED GLASS
CLAM = CLEAR LAMINATED GLASS
CSG = CLEAR SAFETY GLASS
CT = CLEAR TEMPERED
CWG = CLEAR WIRE GLASS
FCTY = FACTORY FINISH
FRP = FIBERGLASS REINFORCED PLASTIC
HM = HOLLOW METAL
PT = COATING SYSTEM PER NIA OR = NOT APPLICABLE
NO. = NUMBER
STL = STEEL
SS = STAINLESS STEEL
THICK = THICKNESS
WD = WOOD

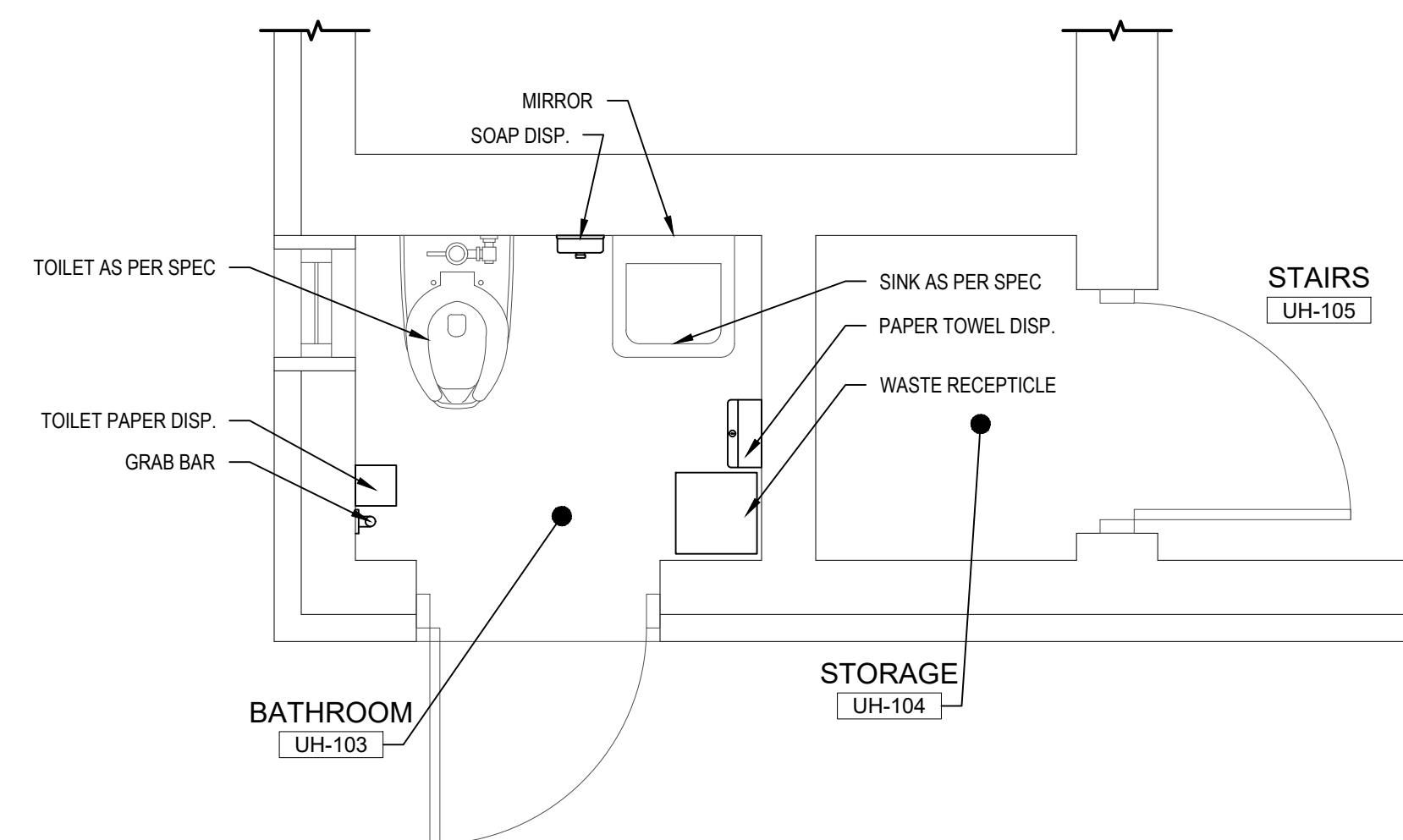
DOOR HARDWARE SCHEDULE										
HARDWARE SET No.	THRESHOLD	HINGES (6 PER PANEL)	LOCKSET / LATCHSET	EXIT DEVICE PANIC HARDWARE	CLOSER	OVERHEAD DOOR STOP & HOLDER	MANUAL FLUSH BOLTS INACTIVE DOOR	ASTRAGAL W/ WEATHERSTRIP	WEATHERSTRIPPING (HEAD, JAMB & SILL)	SMOKE TIGHT SEAL
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	✓	✓	✓	✓	✓	✓				
3	✓	✓	✓	✓	✓	✓				
4		✓	✓	✓	✓					✓



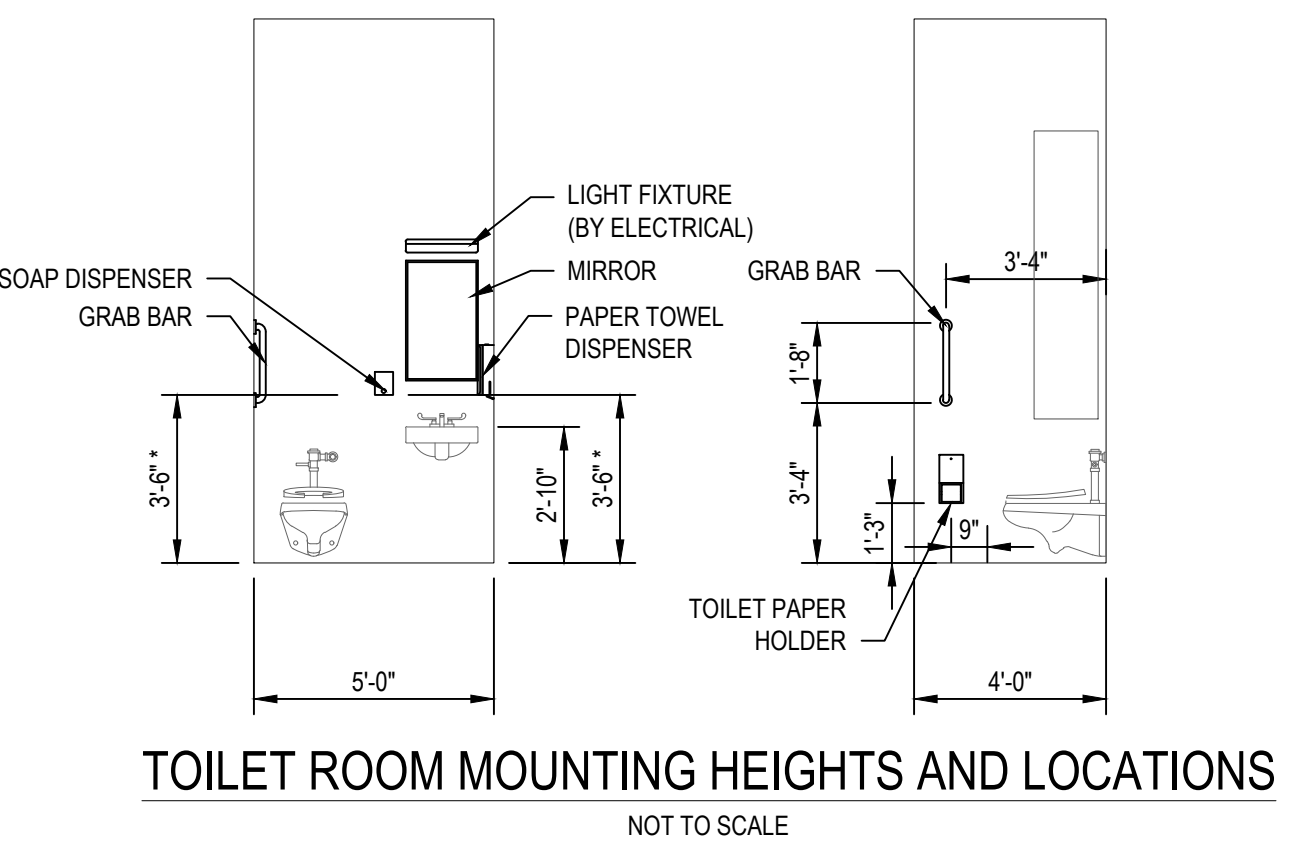
GYPSUM WALL DETAIL
SCALE: 1/2" = 1'-0"

ROOM FINISH SCHEDULE																							
ROOM NUMBER	ROOM NAME	FLOOR				WALLS												CEILING				NOTE NO.	NOTES
		MATL	FIN	CLR	BASE	NORTH			SOUTH			EAST			WEST			MATL	FIN	CLR	HT		
TA-001	PUMP ROOM	EXST	EP	-	EP	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	12'-0"±	1	1. COLORS TO BE SELECTED BY OWNER/ENGINEER
TA-101	MOTOR ROOM	EXST	EP	-	EP	GYP	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	10'-8"±	1	
TA-102	STAIRWELL	EXST	EP	-	EP	EXST	PT	-	GYP	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	-	1	
																						1	
UH-001	PUMP ROOM	EXST	EP	-	EP	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	12'-0"±	1	
UH-101	SCREEN ROOM	EXST	EP	-	EP	EXST	PT	-	GYP	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	10'-8"±	1	
UH-102	MOTOR ROOM	EXST	EP	-	EP	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	10'-8"±	1	
UH-103	BATHROOM	EXST	EP	-	EP	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	10'-8"±	1	
UH-104	STORAGE	EXST	EP	-	EP	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	10'-8"±	1	
UH-105	STAIRWELL	EXST	EP	-	EP	GYP	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	EXST	PT	-	-	1	

DOOR SCHEDULE																				
DOOR NUMBER	DOOR							FRAME				DETAILS: SEE ARCH SHEETS			LABEL	LINTEL	HARDWARE SET	NOTE NO.	NOTES	
	WIDTH	HEIGHT	THICK	MATERIAL	INSUL	TYPE	GLASS	FINISH	MATERIAL	TYPE	PROFILE	FINISH	HEAD	JAMB	SILL					
TA-101	2'-3'-0"	7'-0"	1-3/4"	SS	Y	D1	-	FCTY	SS	F1	P1	FCTY	DH1	DJ1	DS1			1	1	1. FIELD VERIFY ALL OPENS
TA-102	3'-0"	7'-0"	1-3/4"	SS	Y	D1	-	FCTY	SS	F1	P1	FCTY	DH1	DJ1	DS1			2	1	
TA-103	3'-0"	7'-0"	1-3/4"	SS	-	D1	-	FCTY	SS	F1	P1	FCTY	DH2	DJ2	DS2			3	1	
UH-101	2'-3'-0"	7'-0"	1-3/4"	SS	Y	D1	-	FCTY	SS	F1	P1	FCTY	DH1	DJ1	DS1			1	1	
UH-102	3'-0"	7'-0"	1-3/4"	SS	Y	D1	-	FCTY	SS	F1	P1	FCTY	DH1	DJ1	DS1			2	1	
UH-103	3'-0"	7'-0"	1-3/4"	SS	Y	D1	-	FCTY	SS	F1	P1	FCTY	DH1	DJ1	DS1			2	1	
UH-104	2'-8"	7'-0"	1-3/4"	SS	Y	D1	-	FCTY	SS	F1	P1	FCTY	DH1	DJ1	DS1			2	1	
UH-105	2'-8"	7'-0"	1-3/4"	SS	-	D1	-	FCTY	SS	F1	P1	FCTY	DH2	DJ2	DS2			4	1	
UH-106	3'-0"	7'-0"	1-3/4"	SS	-	D1	-	FCTY	SS	F1	P1	FCTY	DH3	DJ3	DS3			3	1	



BATHROOM ACCESSORIES	
ITEM	BOBRICK OR EQUAL
SOAP DISPENSER	818615
PAPER TOWEL DISPENSER	B-359039
TOILET PAPER DISPENSER	B-2888
18" VERTICAL GRAB	819440
MIRROR	B-290 1830
WASTE RECEPTACLES	B-220816

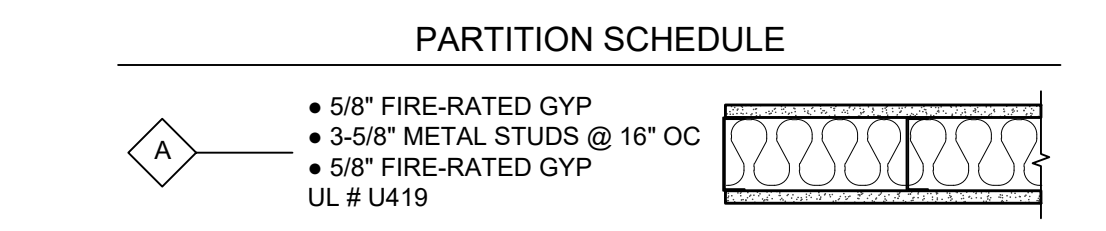


MATERIALS LEGEND:

- CONCRETE MASONRY
- BLOCKING OR FRAMING, CONTINUOUS
- BLOCKING OR SHIM, NOT CONTINUOUS
- PLYWOOD OR LAMINATED VENEER LUMBER
- GYPSUM DRYWALL
- RIGID INSULATION
- FIBERGLASS BATT INSULATION
- EARTH
- COMPACTED BACKFILL
- CONCRETE
- GROUT
- FERROUS OR NON-FERROUS METAL IN SECTION

DRAWING SYMBOLS:

- DB100 DOOR NUMBER
- BLOWER ROOM DB-100 ROOM NAME & NUMBER
- LV-1 LOUVER NUMBER
- FE FIRE EXTINGUISHER
- ? SECTION
- PARTIAL PLAN OR DETAIL

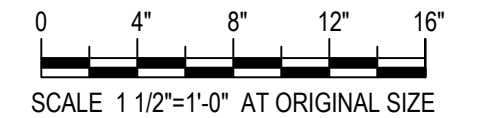


TALLMAN & UNION HILL PUMPING STATION BUILDING CODE SUMMERY 2020 INTERNATIONAL EXISTING BUILDING CODE	
TOPIC	
ALTERATION LEVEL	ALTERATIONS - LEVEL 1 CHAPTER 7
CONFORMANCE	701.2 CONFORMANCE, AN EXISTING BUILDING OR PORTION THEREOF SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITIONS.
OCCUPANCY CLASSIFICATION	NO CHANGE FROM EXISTING
CONSTRUCTION TYPE: HEIGHT AND AREA	NO CHANGE FROM EXISTING

STRUCTURAL DESIGN CRITERIA

(PER NEW YORK STATE BUILDING CODE 2016 IBC)

FLOOR LIVE LOADS:		
STAIRWAYS AND LANDINGS	100	(PSF)
ACCESS PLATFORMS	60	(PSF)
ROOF LIVE LOADS:		
MINIMUM ROOF LIVE LOAD	20	(PSF)
ROOF SNOW LOAD:		
GROUND SNOW LOAD, P _g	20	(PSF)
FLAT-ROOF SNOW LOAD, P _f		
- BUILDING (HEATED)	22	(PSF)
SNOW EXPOSURE FACTOR, C _e	1.0	
SNOW LOAD IMPORTANCE FACTOR, I _s	1.1	
THERMAL FACTOR, C _t :	1.0	
(HEATED)	1.0	
(UNHEATED)	1.2	
WIND LOAD:		
BASIC WIND SPEED, V ₃₀	110	MPH
WIND EXPOSURE:	C	
INTERNAL PRESSURE COEFFICIENTS:	+/- 0.18	
DESIGN WIND PRESSURE USED FOR COMPONENTS AND CLADDING:		
@ WALL SURFACES:	+30/-33	(PSF)
@ ROOF SURFACES:	+18/-48	(PSF)
EARTHQUAKE DESIGN DATA:		
SEISMIC IMPORTANCE FACTOR, I _s	1.25	
RISK CATEGORY:	111	
MAPPED SPECTRAL RESPONSE ACCELERATIONS:		
S _{DS}	0.275g	
S _{DI}	0.072g	
SITE CLASS:	0	
DESIGN SPECTRAL RESPONSE ACCELERATIONS:		
S _{DS}	0.290g	
S _{DI}	0.116g	
SEISMIC DESIGN CATEGORY:	B	
SOIL DATA:		
DESIGN FROST DEPTH	42	INCHES
DESIGN SOIL BEARING PRESSURE:	3,000	(PSF)



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The following is paraphrased from the New York Education Law, Article 145, Section 7209, and Chapter II, Section 79-14, and applies to this drawing: "It is a violation of this law for any person unless he is acting under the direction of a licensed professional engineer, licensed landscape architect or licensed land surveyor to alter an item in any way, if an item bearing the seal of an engineer, landscape architect or land surveyor is altered, the altering engineer, landscape architect or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration and a specific description of the alteration."



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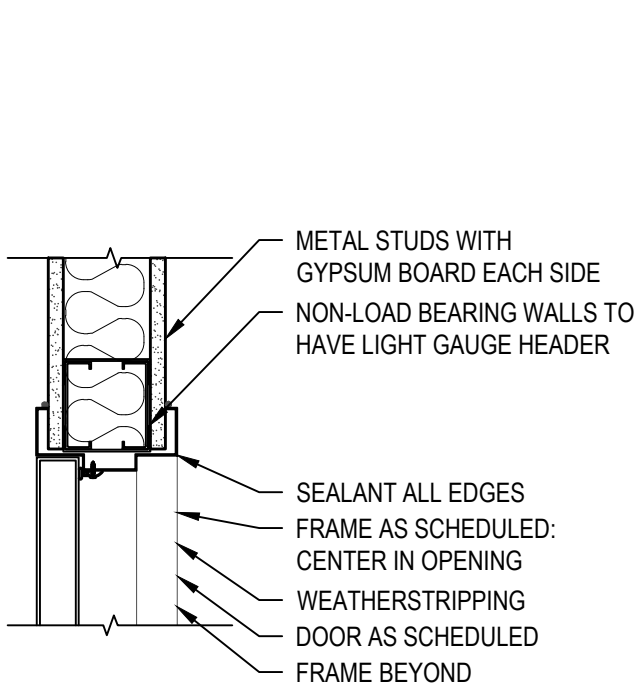
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Syracuse, New York 13202

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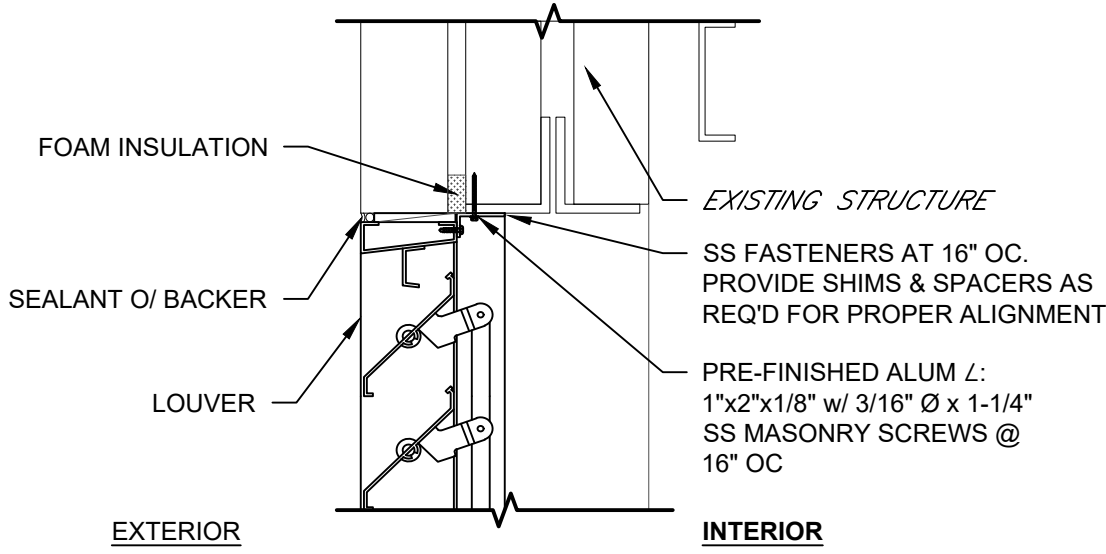
PROJECT TITLE: UNION HILL AND TALLMAN PUMP STATION UPGRADE					DRAWINGS ISSUED FOR / REVISIONS					CONTRACT# RFB-RC-SWR-2022-06	
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK					NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	EDR JOB# 21213
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1					1	04/22	60 PERCENT DESIGN REVIEW	MJL			DATE: 06/2023
					2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	SCALE: AS NOTED
DRAWING TITLE: UNION HILL AND TALLMAN PUMP STATIONS SCHEDULES AND DETAILS					3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWN BY: MJS
					4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY: -
CONTRACT					5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER: A-001
					6	06/23	FOR BID	MJL	RRS	MET	

7/27/23 Rockland Union Hill and Tallman PWS Civil Working Drawings/Architectural/21213-A-002.dwg Date Printed: 01/14/2023 11:04:46 AM



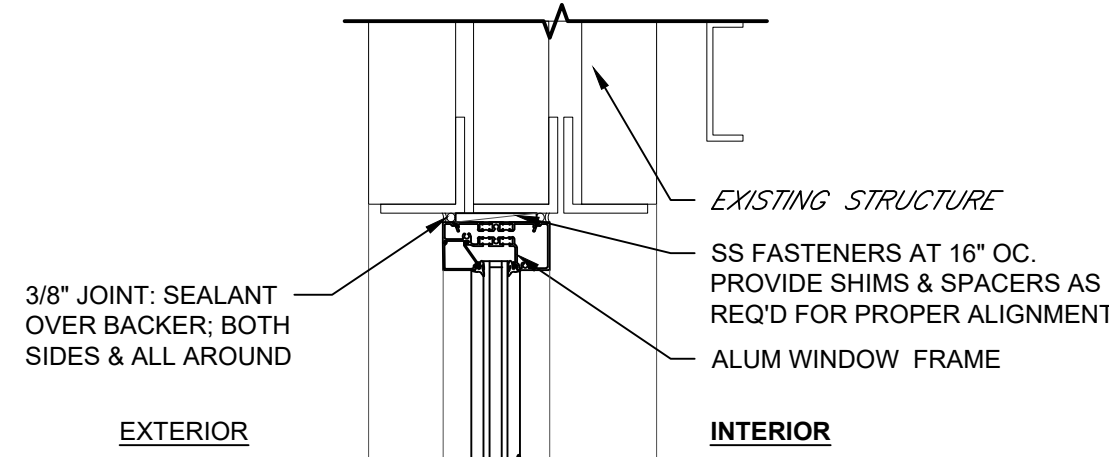
DOOR HEAD-2

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



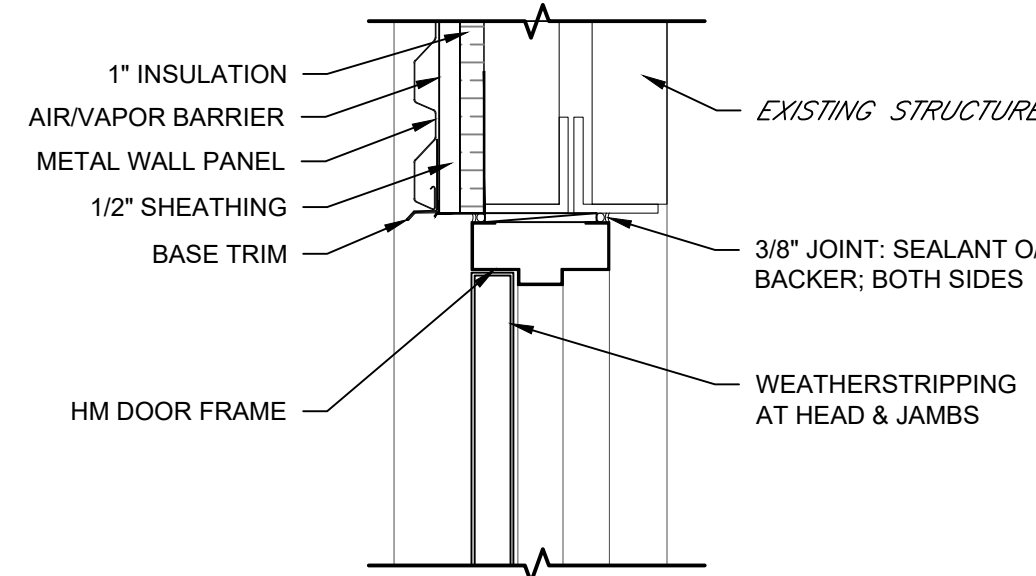
LOUVER HEAD-1

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



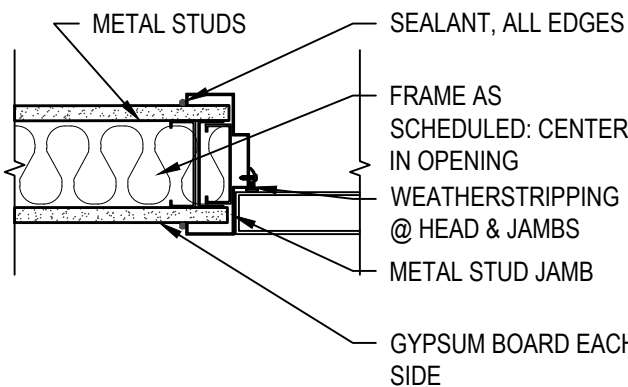
WINDOW HEAD-1

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



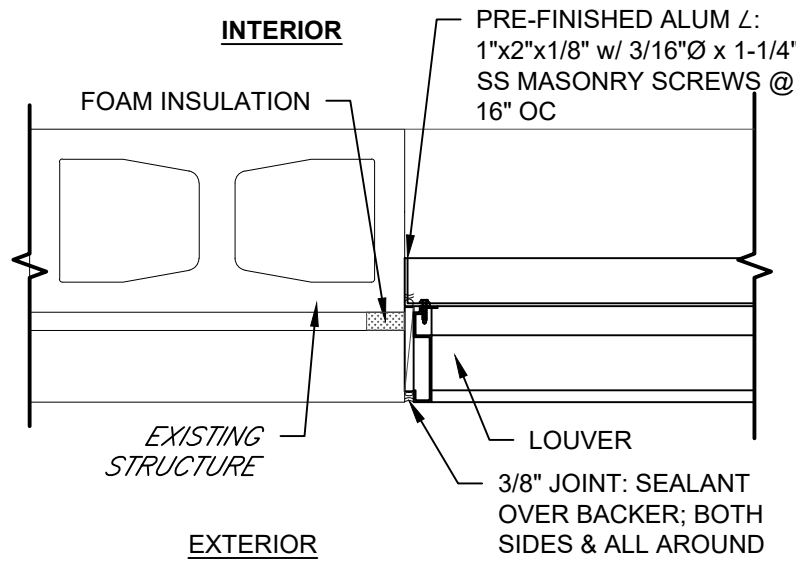
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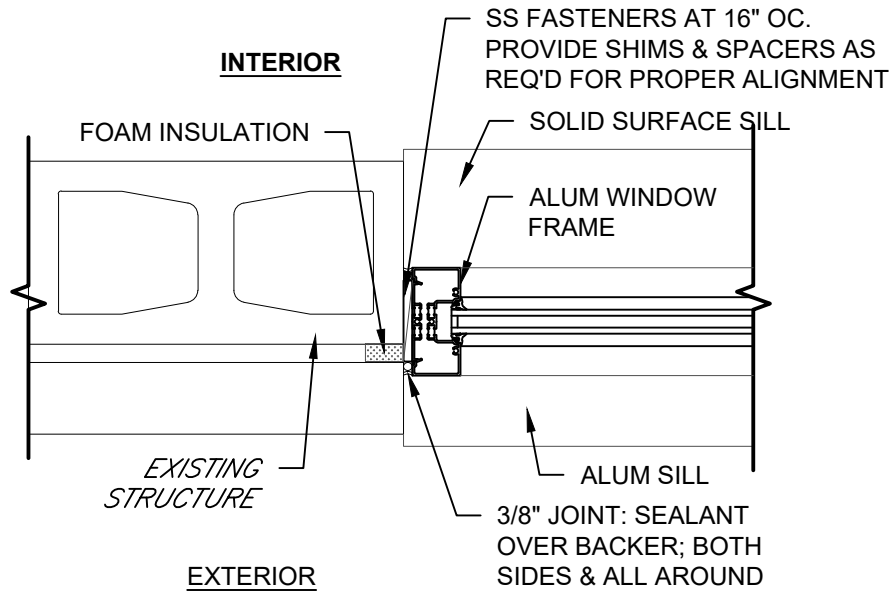
DOOR JAMB-2

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



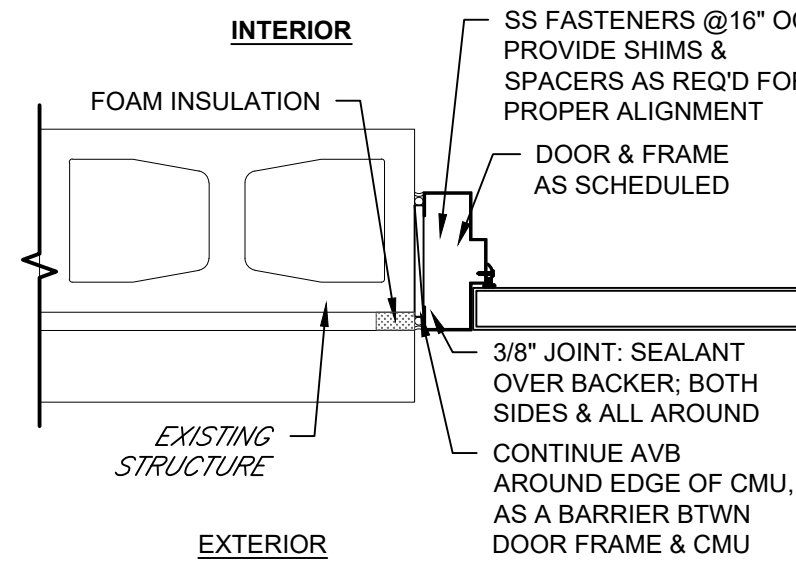
LOUVER JAMB-1

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



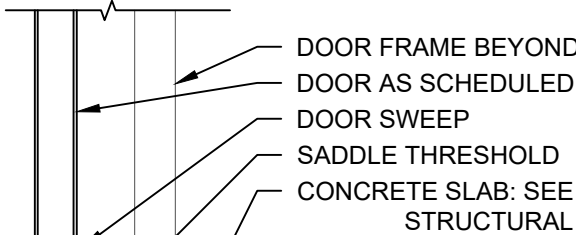
WINDOW JAMB-1

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



DOOR JAMB-1

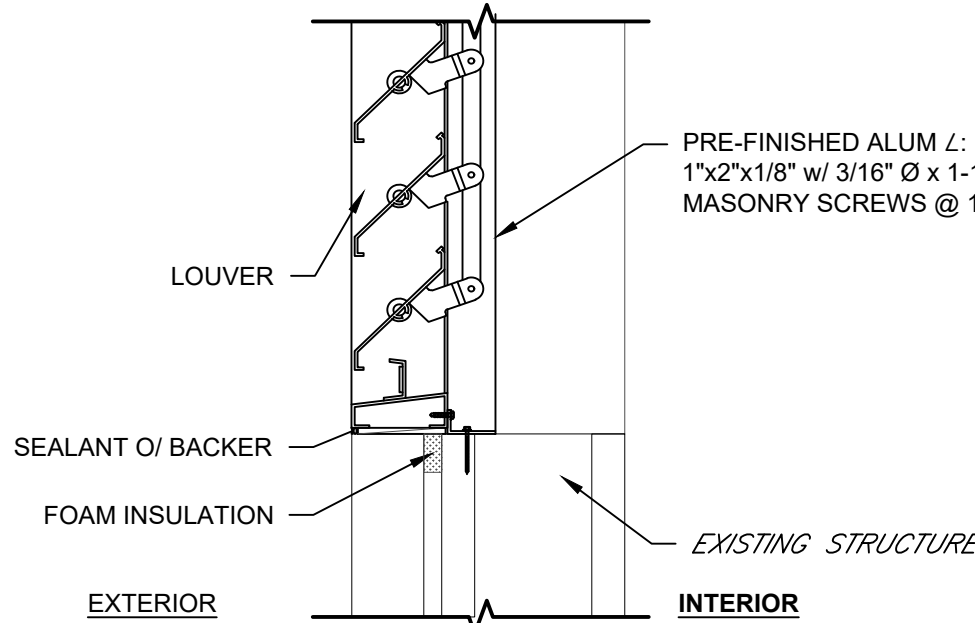
SCALE: 1-1/2" = 1'-0"



NOTE:
COORDINATE WALL BASE
TYPE WITH WALL SECTION

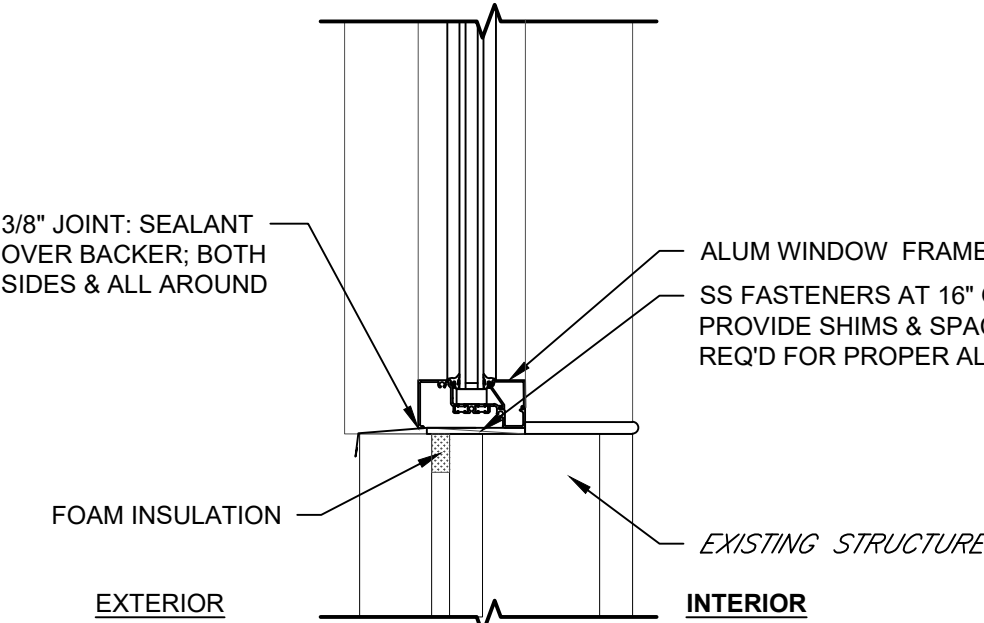
DOOR SILL-2

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



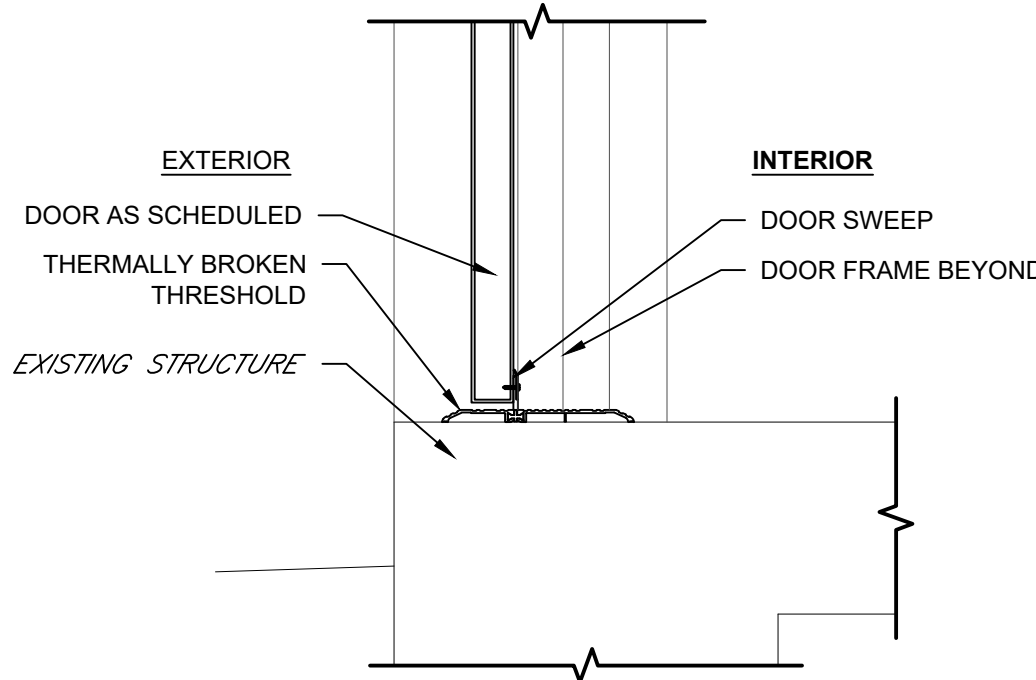
LOUVER SILL-1

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



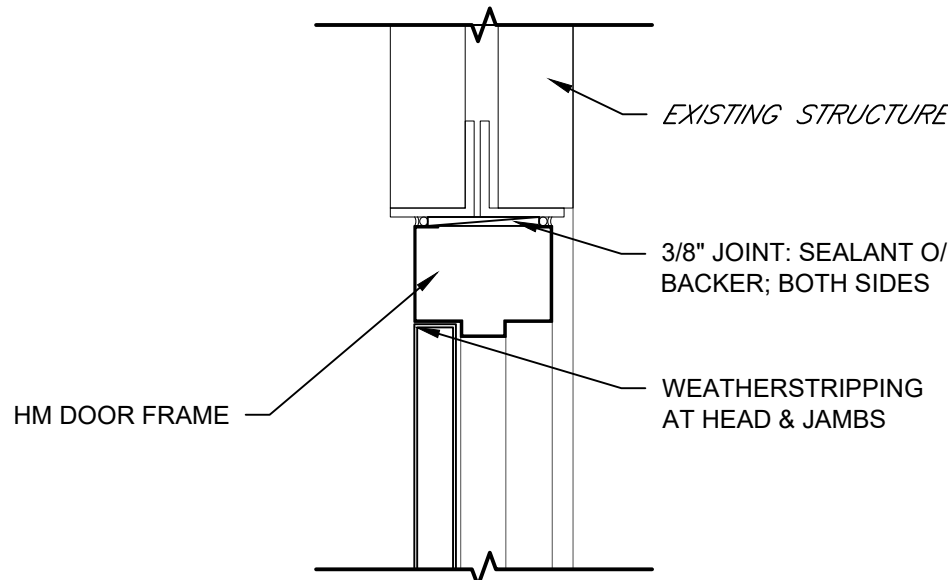
WINDOW SILL-1

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



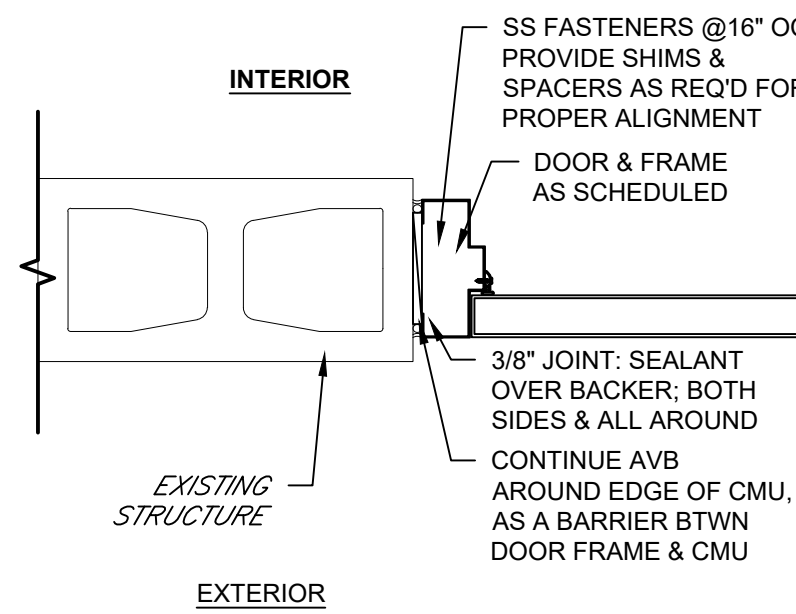
DOOR SILL-1

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



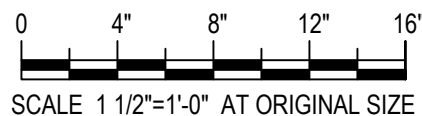
DOOR HEAD-3

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



DOOR JAMB-2

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



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the altering engineer, landscape architect or land
surveyor shall affix to the item his seal and the notation
"altered by" followed by his signature and the date of
such alteration and a specific description of the
alteration."



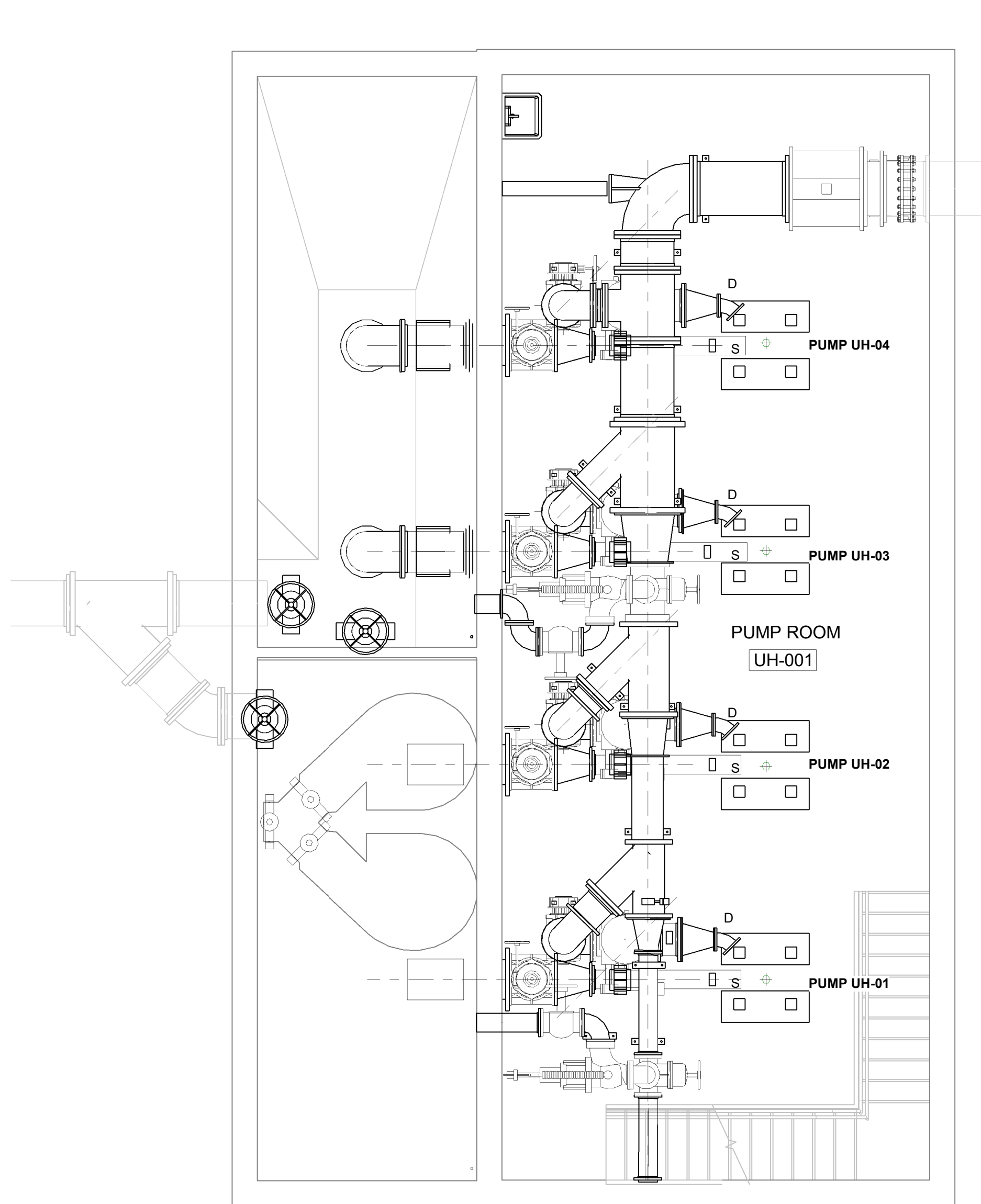
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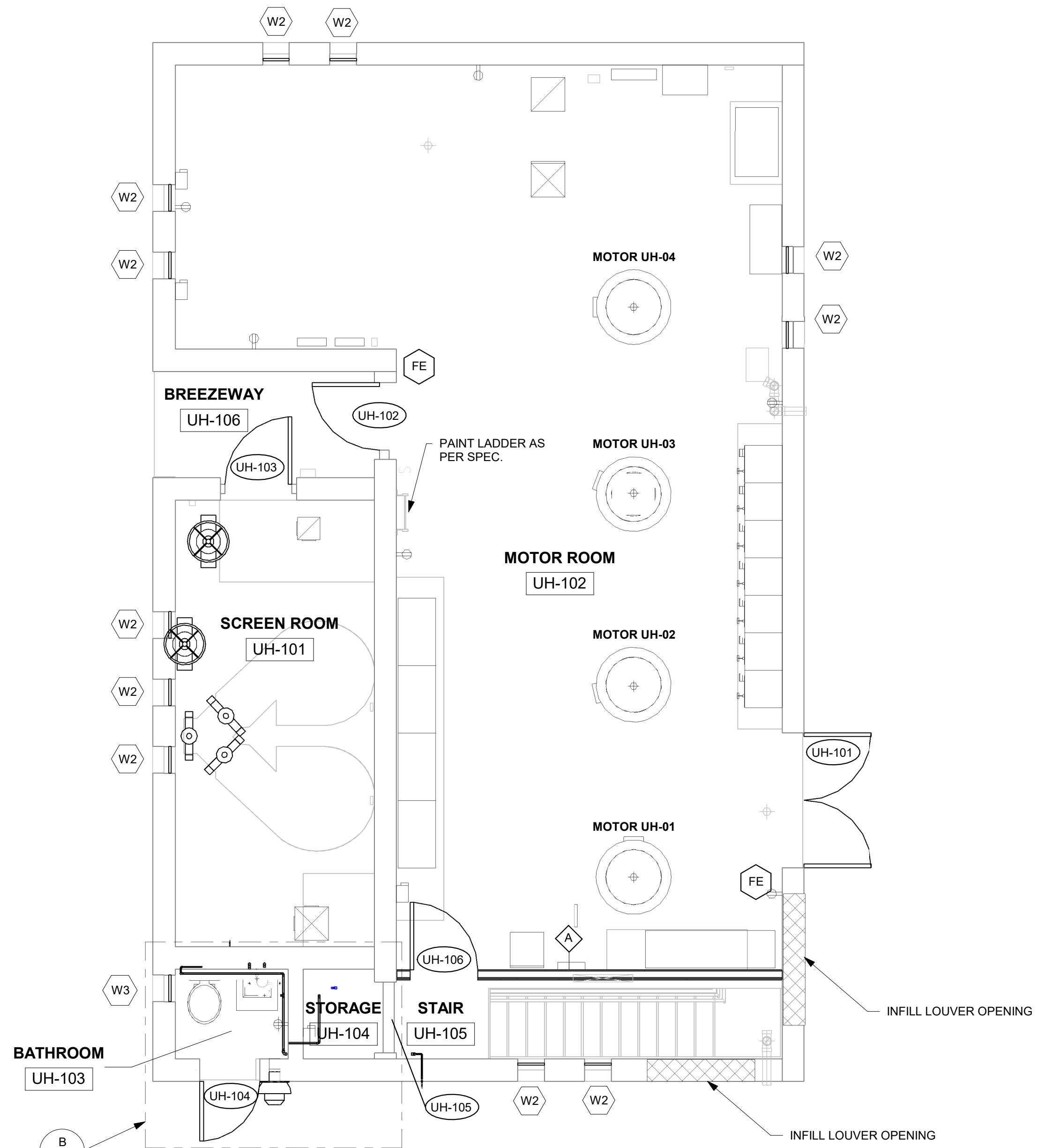
PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT NO 1**
DRAWING TITLE: **UNION HILL AND TALLMAN PUMP STATIONS
DETAILS**

DRAWINGS ISSUED FOR / REVISIONS						EDR JOB# 21213	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE: 06/2023	SCALE: AS NOTED
1	04/22	60 PERCENT DESIGN REVIEW	MJL			DRAWN BY: MJS	
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY: -	
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWING NUMBER:	
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	A-002	
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET		
6	06/23	FOR BID	MJL	RRS	MET		

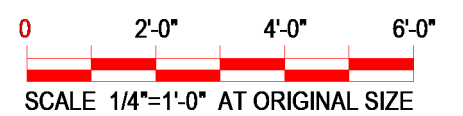
CONTRACT# RFB-RC-SWR-2022-06



② LOWER LEVEL
1/4" = 1'-0"



① GROUND FLOOR
1/4" = 1'-0"



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADES**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

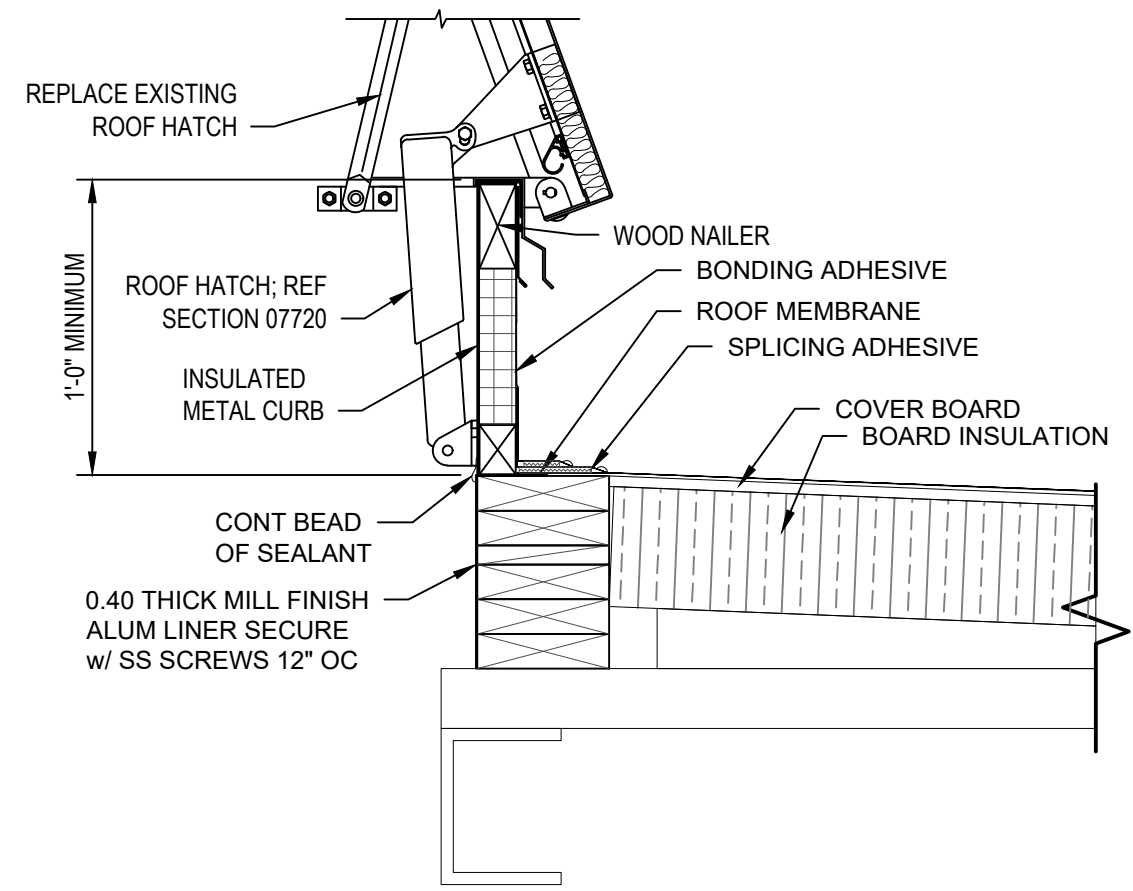
DRAWING TITLE: **UNION HILL PUMP STATION LOWER LEVEL AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS

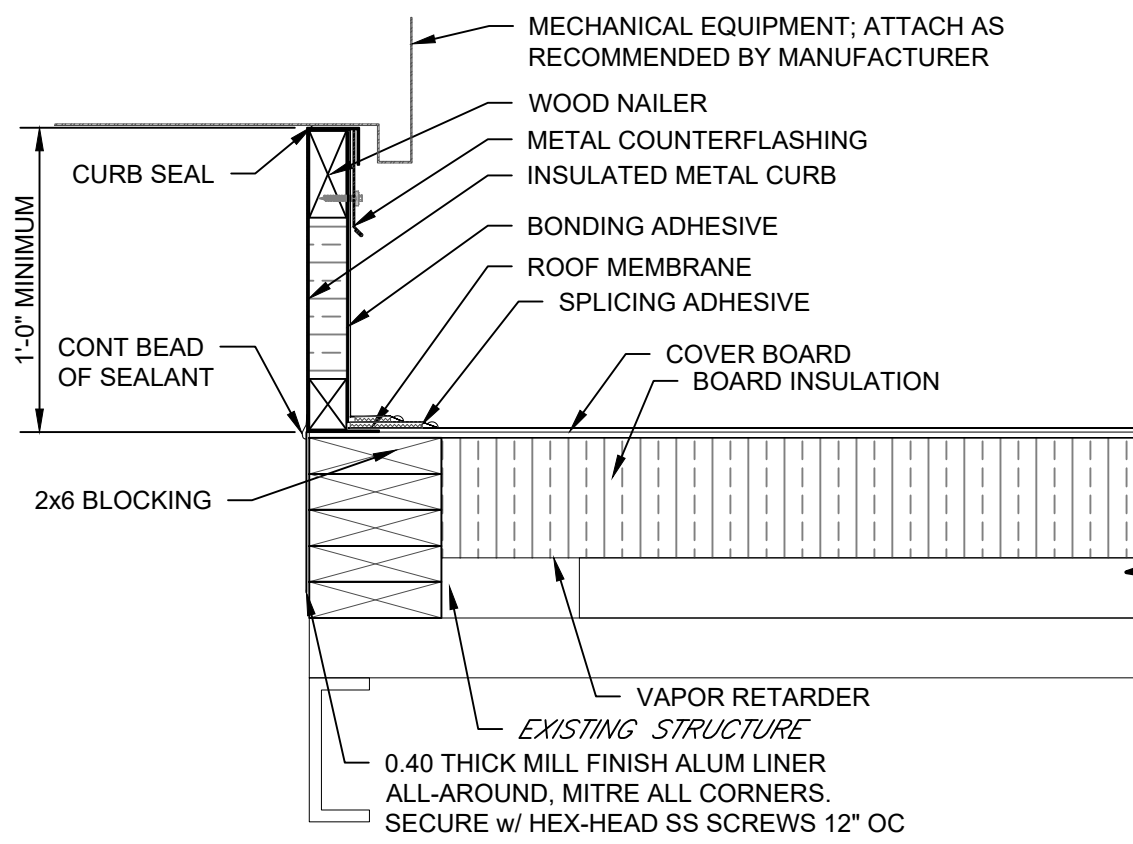
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2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	APR	SCALE: 1/4" = 1'-0"
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	APR	DRAWN BY: MJL
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5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	APR	
6	03/23	FOR BID	MJL	RRS	APR	

CONTRACT# RFB-RC-SWR-2022-06
EDR JOB #21213

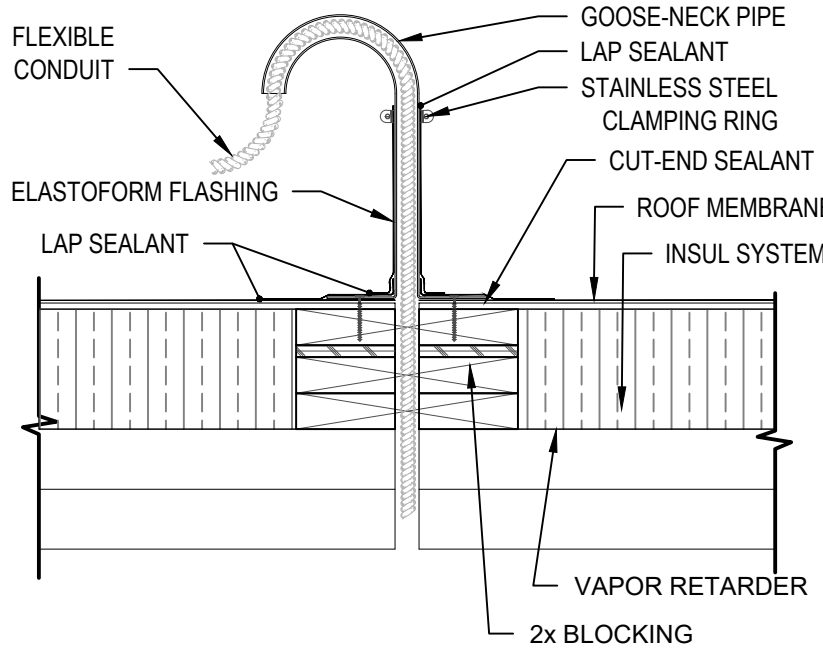
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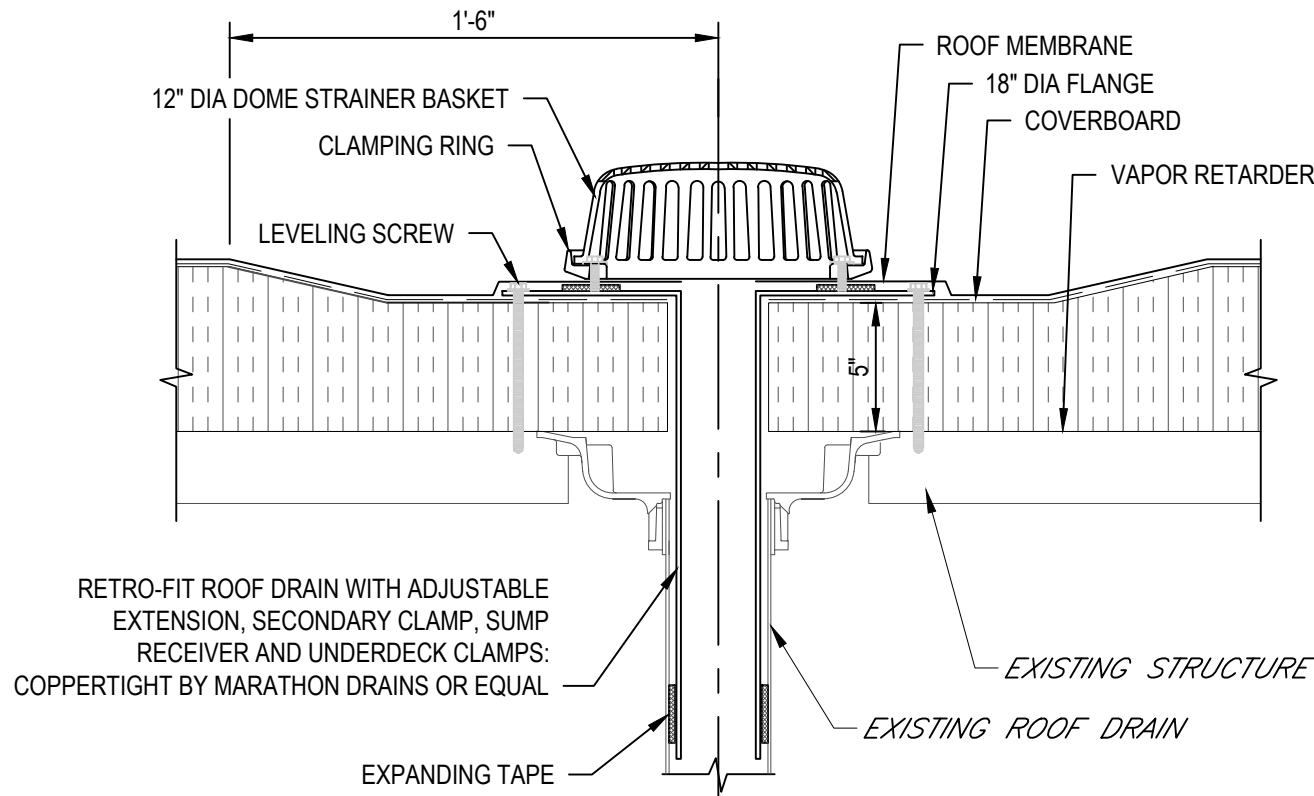
1 ROOF HATCH
Scale: 1-1/2" = 1'-0"



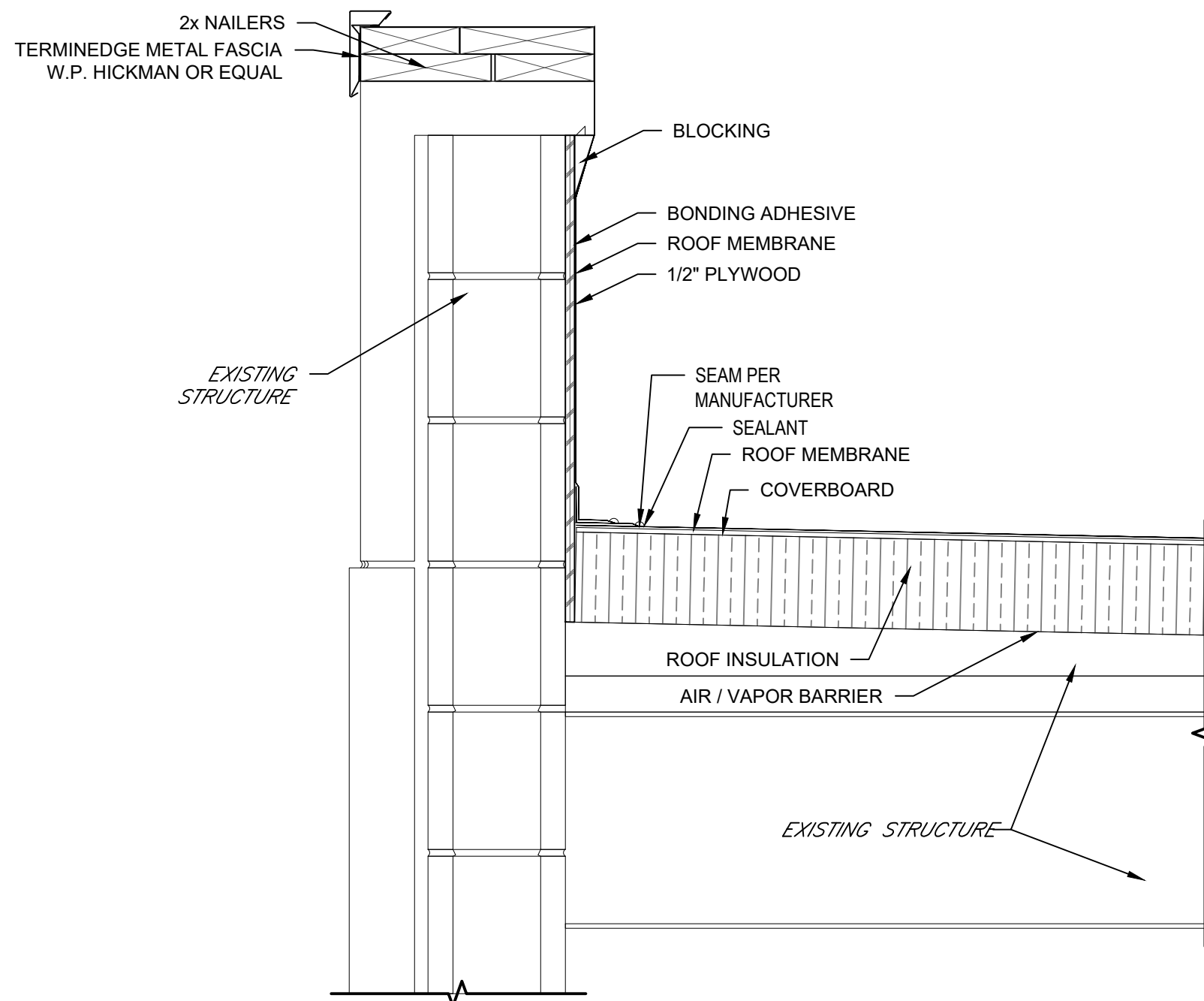
2 EQUIPMENT CURB DETAIL
Scale: 1-1/2" = 1'-0"



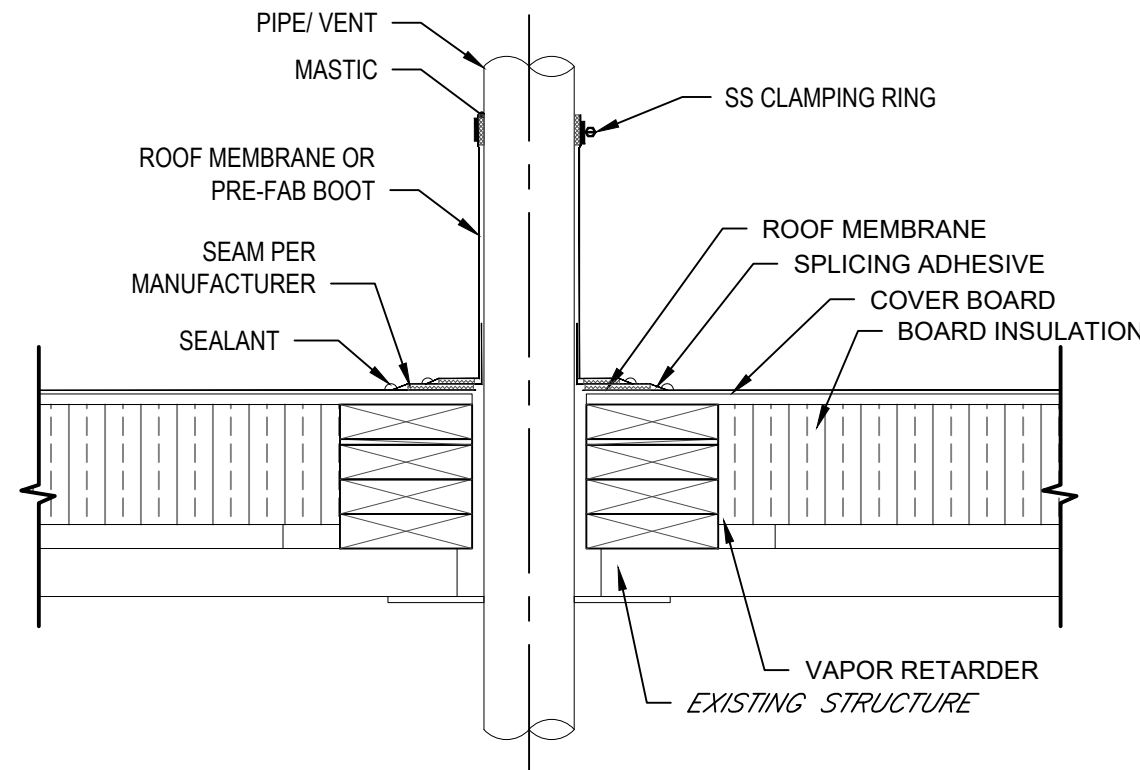
3 CONDUIT DETAIL
Scale: 1-1/2" = 1'-0"



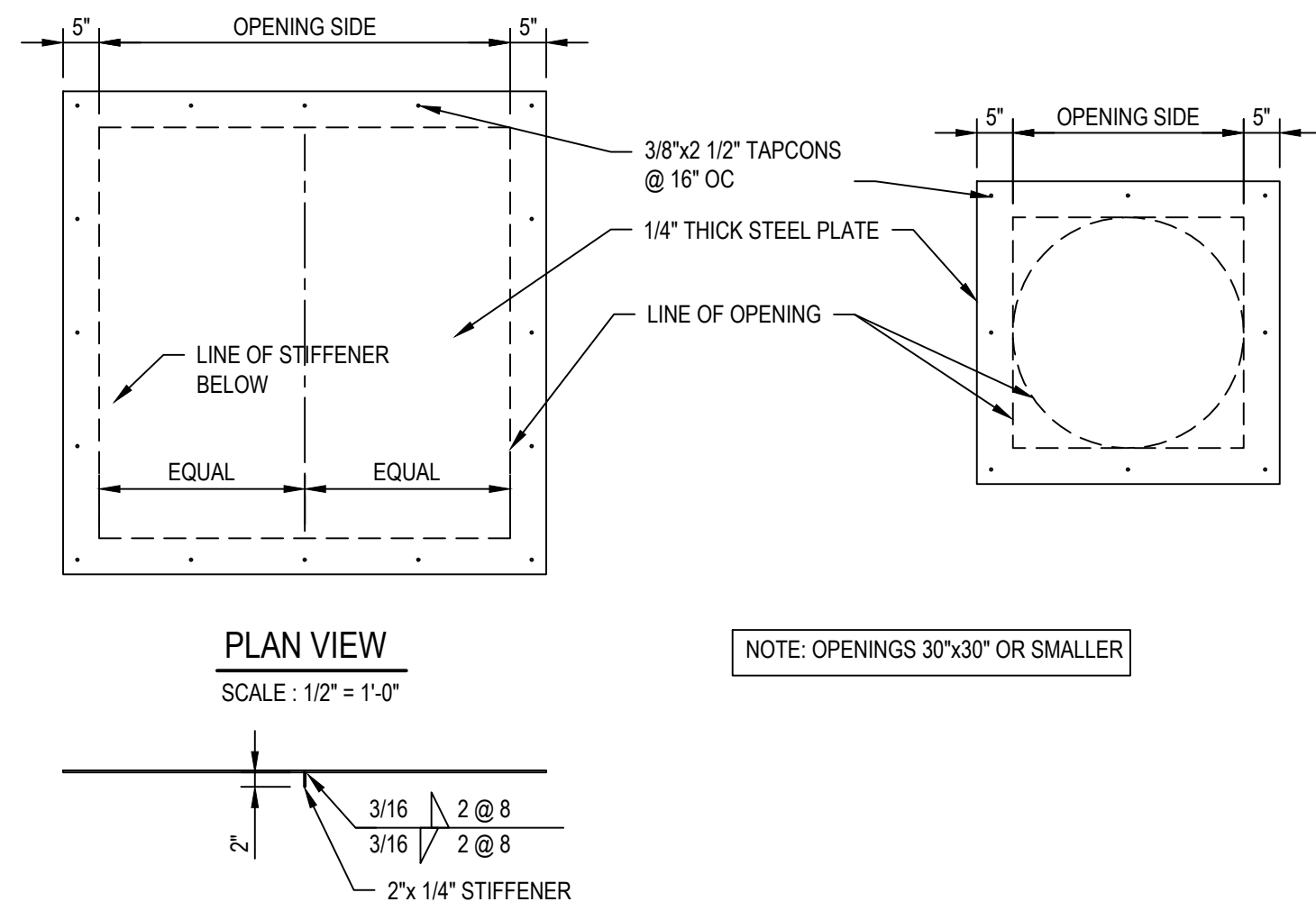
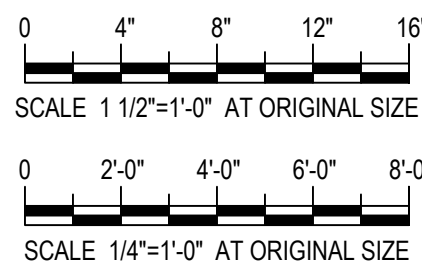
4 RETRO-ROOF DRAIN DETAIL
Scale: 1-1/2" = 1'-0"



7 PARAPET DETAIL
Scale: 1-1/2" = 1'-0"

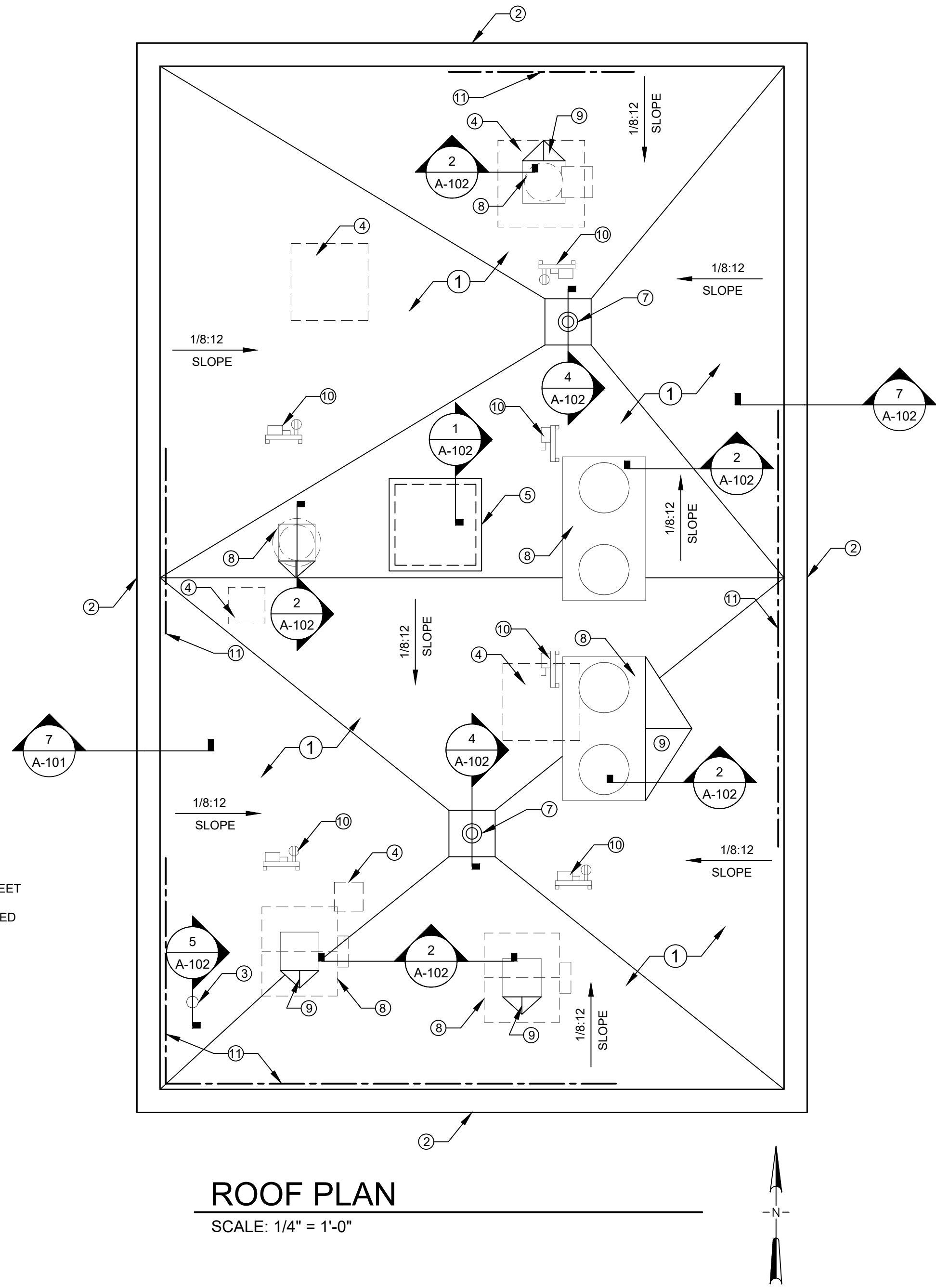


5 PIPE VENT DETAIL
Scale: 1-1/2" = 1'-0"

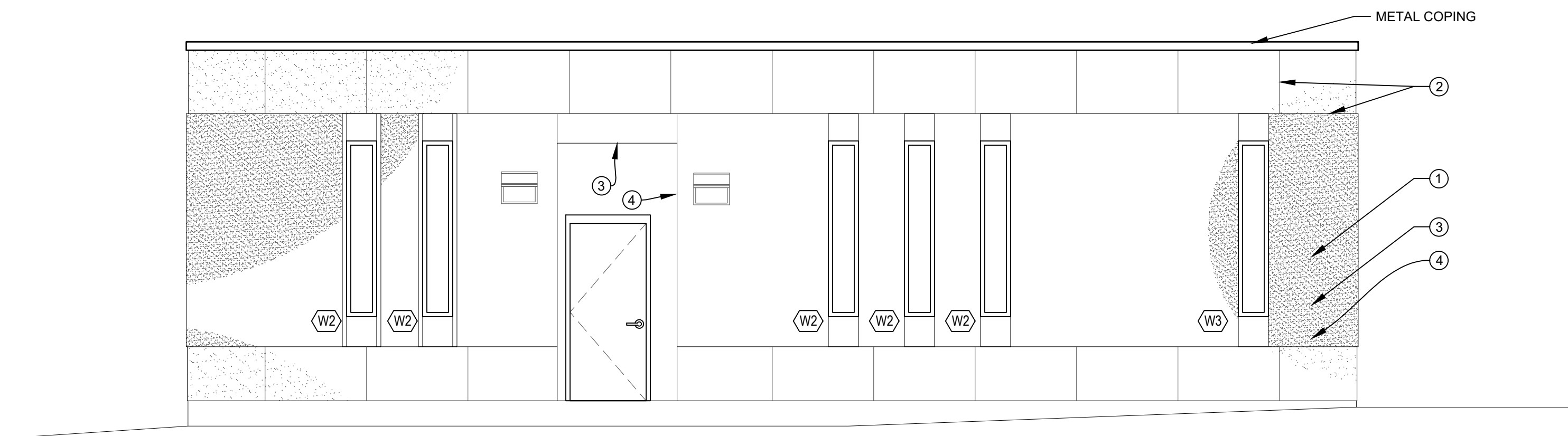


ROOF OPENING INFILL DETAIL
SCALE: 1/2" = 1'-0"

- NOTES:**
- NEW SINGLE PLY MEMBRANE ROOF SYSTEM.
 - NEW METAL COPING.
 - EXTEND EXISTING PIPE VENT TO 12" ABOVE FINISHED ROOF.
 - INFILL EXISTING ROOF OPENING: SEE DETAIL THIS SHEET
 - NEW ROOF HATCH ON A NEW CURB 12" ABOVE FINISHED ROOF.
 - NOTE NOT USED
 - NEW RETRO-FIT ROOF DRAIN IN EXISTING DRAIN LOCATION
 - NEW HVAC EQUIPMENT ON NEW CURB
 - CRICKET
 - SEE HVAC/ELECTRICAL DRAWING FOR DETAILS.
 - PROVIDE FREE STANDING OSHA COMPLIANT GUARD SYSTEM THAT DOES NOT PENETRATE THE EXISTING ROOFING MEMBRANE. PROVIDE KEEGUARD SAFETY RAILING BY KEE SAFETY INC., RAIL GUARD 200 BY TC SAFETY RAIL, OR EQUAL.

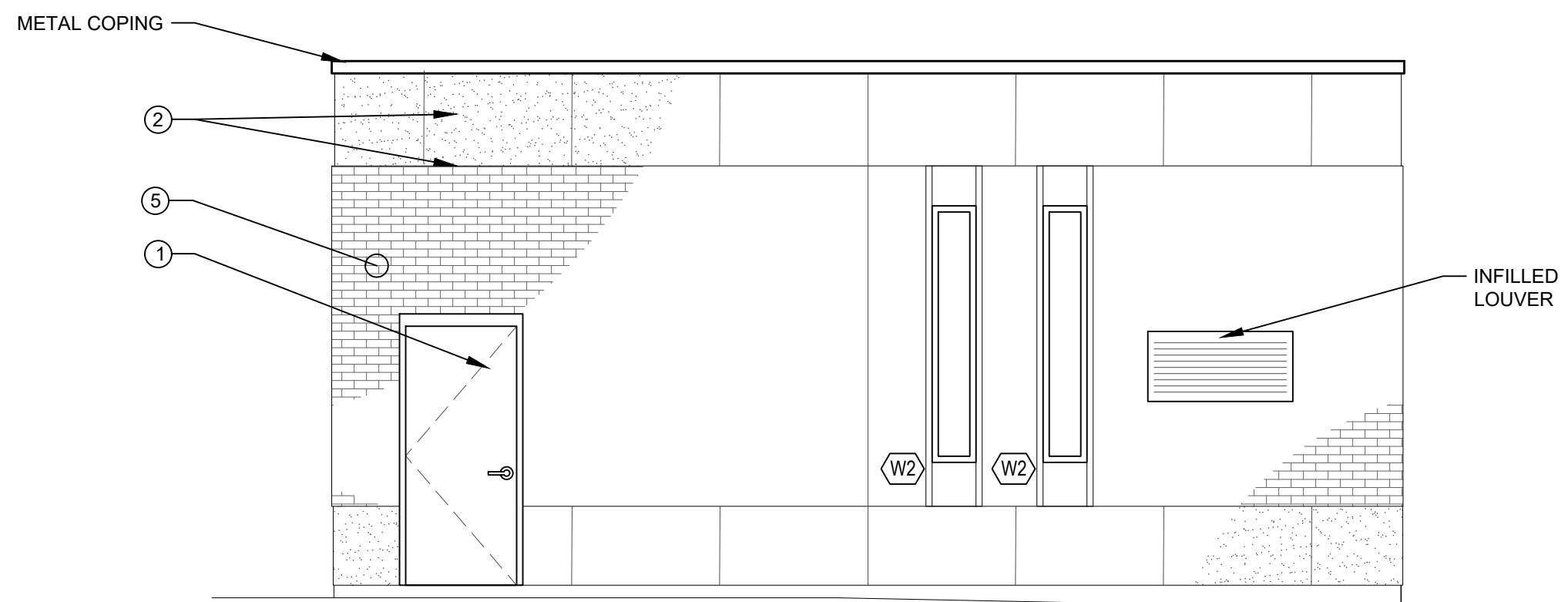


ROOF PLAN
SCALE: 1/4" = 1'-0"



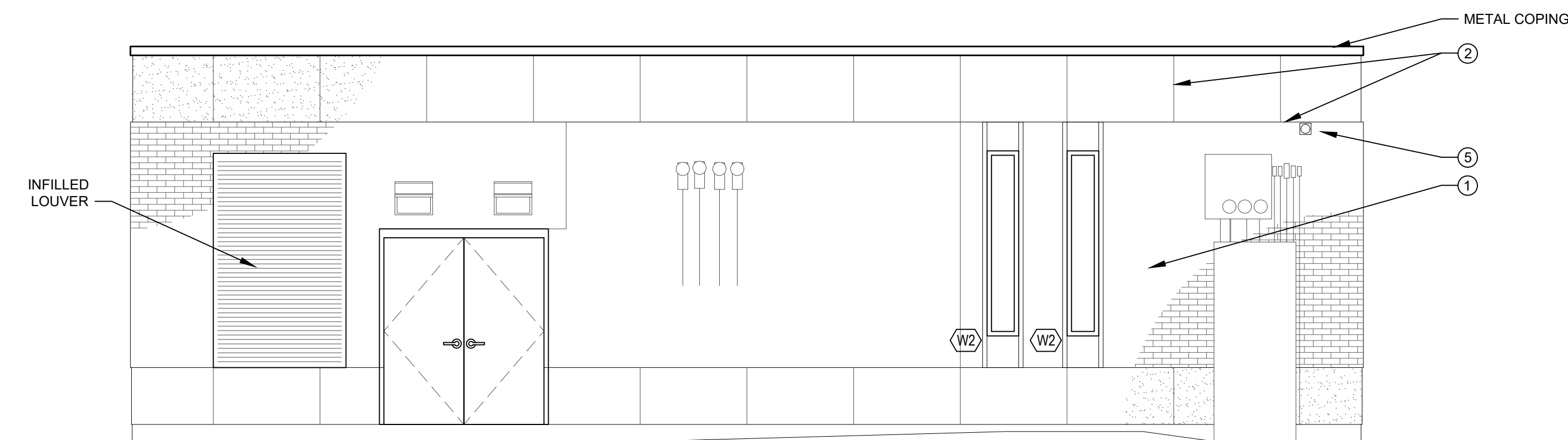
WEST SIDE ELEVATION

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



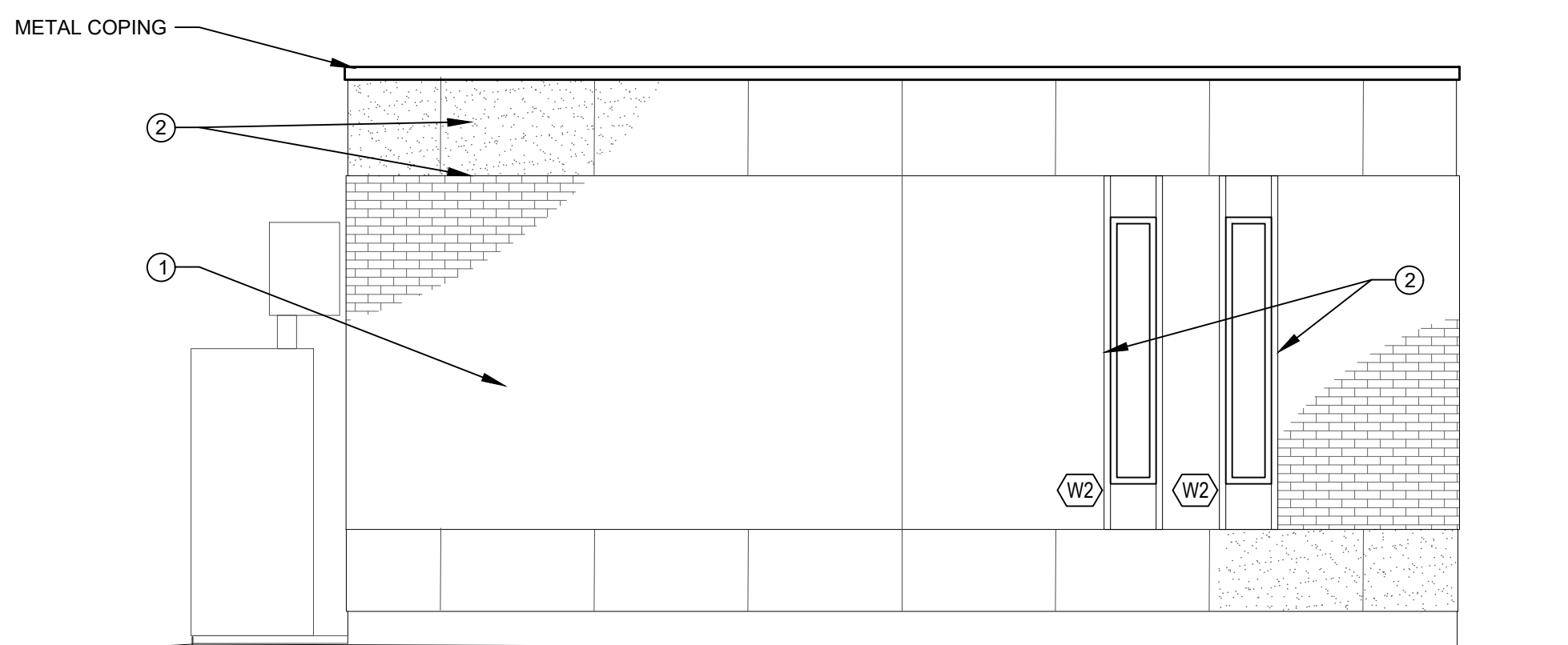
SOUTH SIDE ELEVATION

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



EAST SIDE ELEVATION

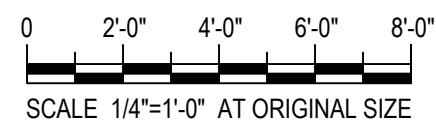
SCALE: 1/4" = 1'-0"



NORTH SIDE ELEVATION

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

- 1 CLEAN EXISTING EXTERIOR WALLS AS PER SPEC SECTION 04300
- 2 REMOVE EXISTING ALL SEALANT AND INSTALL SEALANT
- 3 PAINT CEILING AT ENTRY WAY
- 4 REPAIR BRICK ABOVE DOOR IN ENTRY WAY
- 5 REPAIR BRICK AS REQUIRED



SCALE: 1/4"=1'-0" AT ORIGINAL SIZE

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217 Montgomery Street, Suite 1100
Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **UNION HILL PUMP STATION
ELEVATIONS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	MJL		
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET
6	06/23	FOR BID	MJL	RRS	MET

CONTRACT# RFB-RC-SWR-2022-06

EDR JOB# **21213**

DATE: **06/2023**

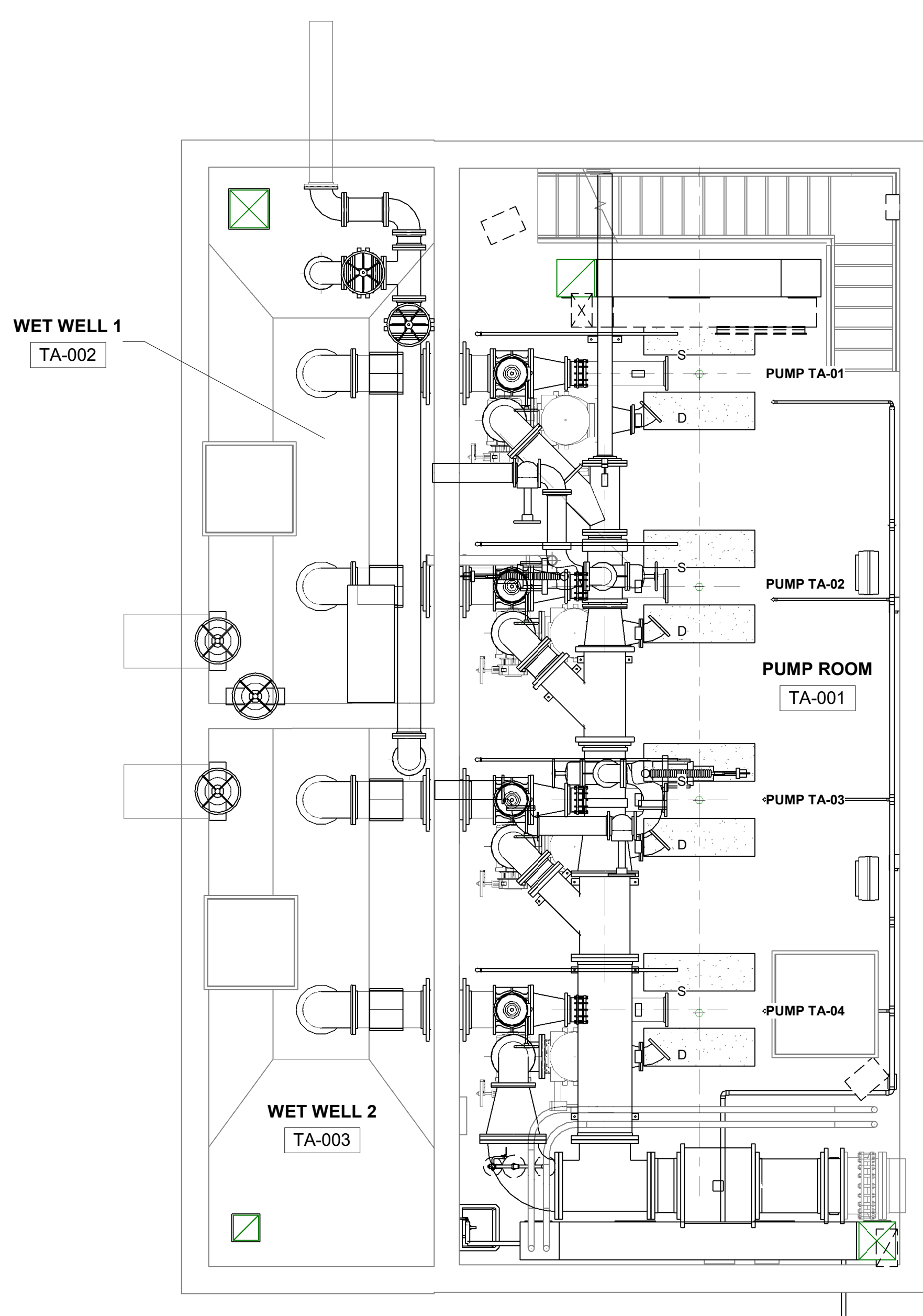
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DRAWN BY: **MJS**

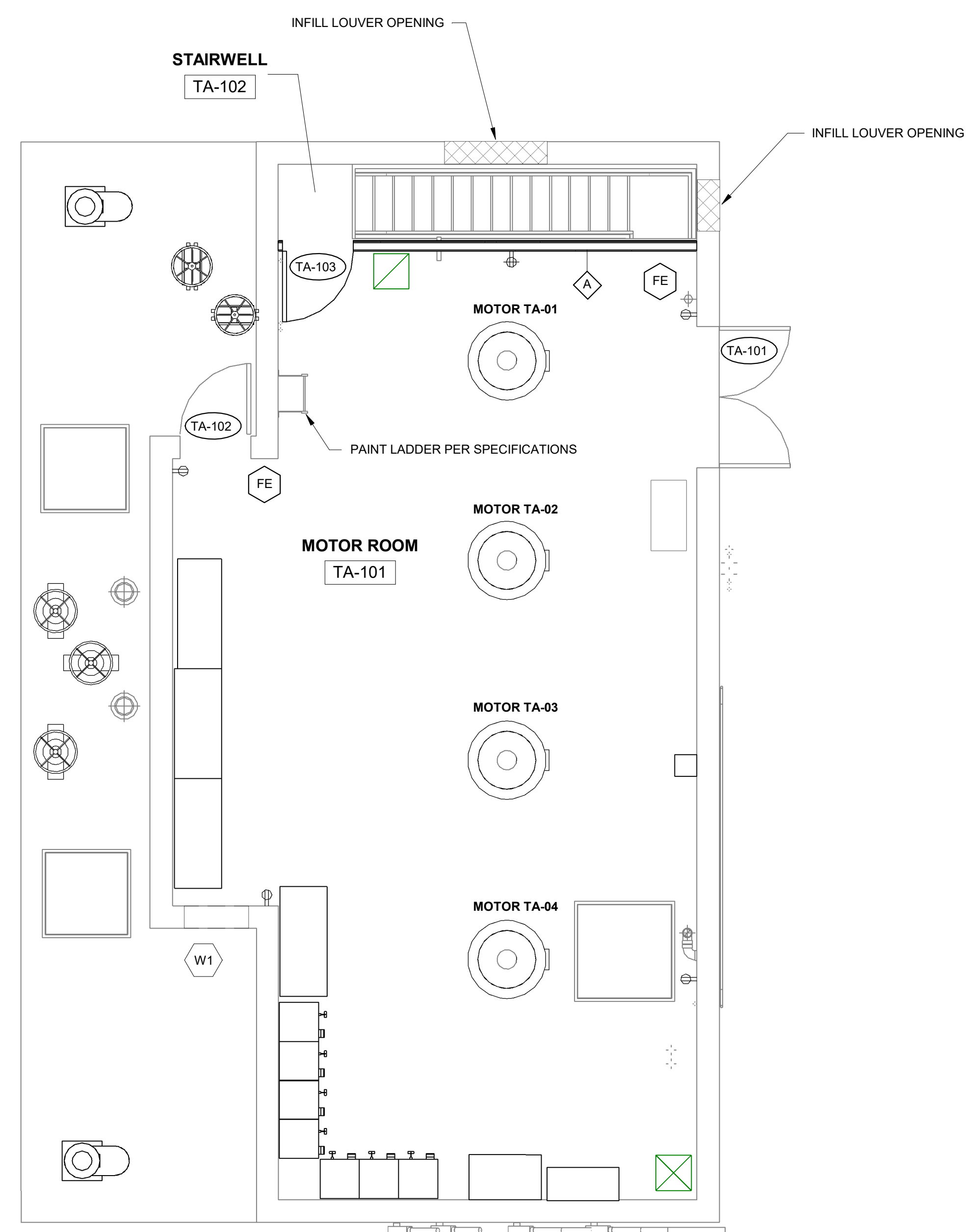
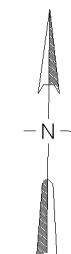
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DRAWING NUMBER:

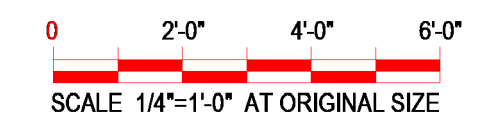
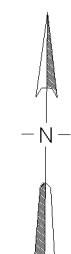
A-103



LOWER LEVEL
1/4" = 1'-0"



GROUND FLOOR
1/4" = 1'-0"



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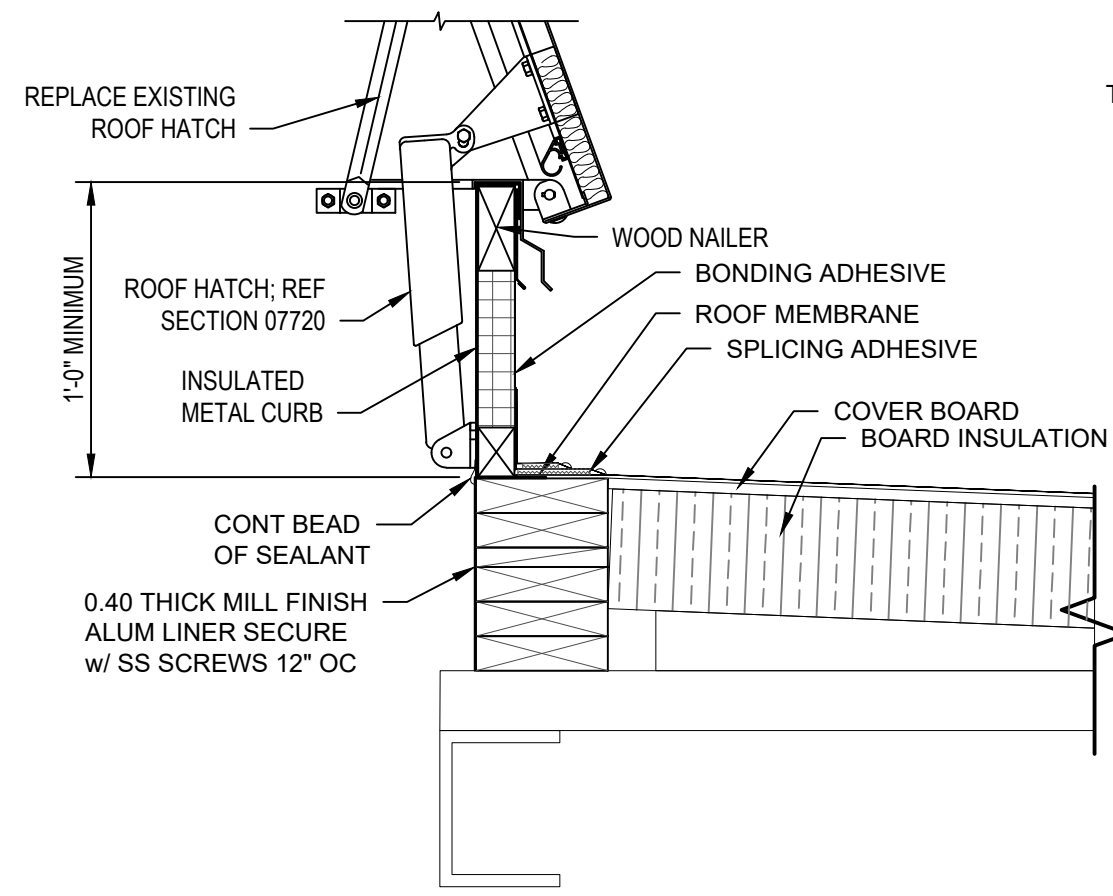
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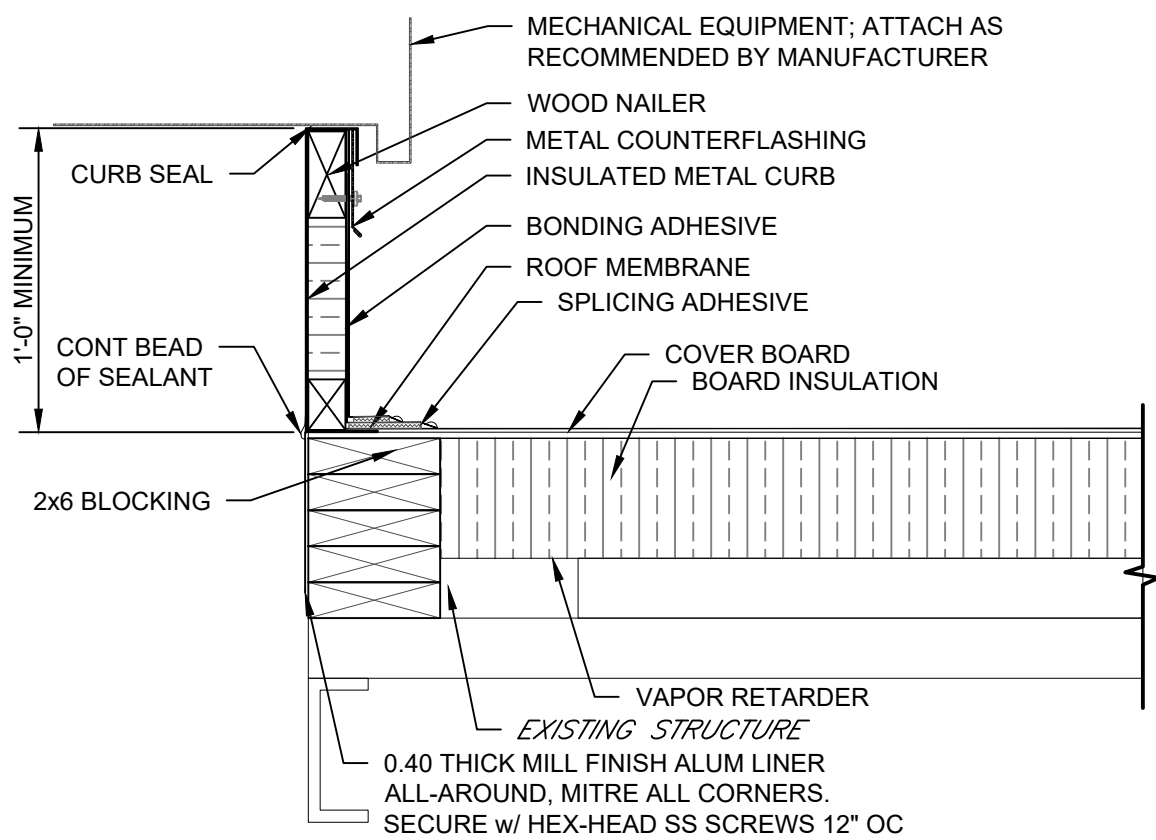
Landscape Architecture, Engineering
& Environmental Services, D.P.C.
217 Montgomery Street, Suite 1100
Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: UNION HILL AND TALLMAN PUMP STATION UPGRADE				DRAWINGS ISSUED FOR / REVISIONS				CONTRACT # RFB-RC-SWR-2022-06			
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK				NO.	DATE	ISSUED FOR / REVISIONS			BY	CHK	APP
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1				1	04/22	60 PERCENT DESIGN REVIEW			MJL	RRS	MET
DRAWING TITLE: TALLMAN PUMP STATION LOWER LEVEL AND GROUND FLOOR PLANS				2	07/22	90 PERCENT DESIGN REVIEW			MJL	RRS	MET
				3	09/22	FOR REGULATORY REVIEW			MJL	RRS	MET
				4	01/23	100 PERCENT DESIGN REVIEW			MJL	RRS	MET
				5	03/23	100 PERCENT DESIGN REVIEW			MJL	RRS	MET
				6	03/23	FOR BID			MJL	RRS	MET
				DRAWING NUMBER: A-201							

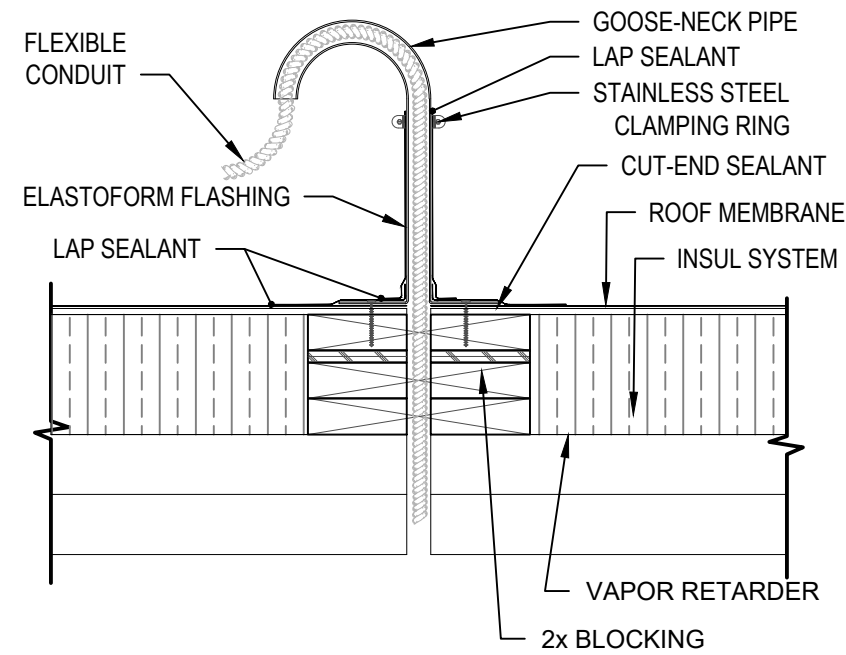
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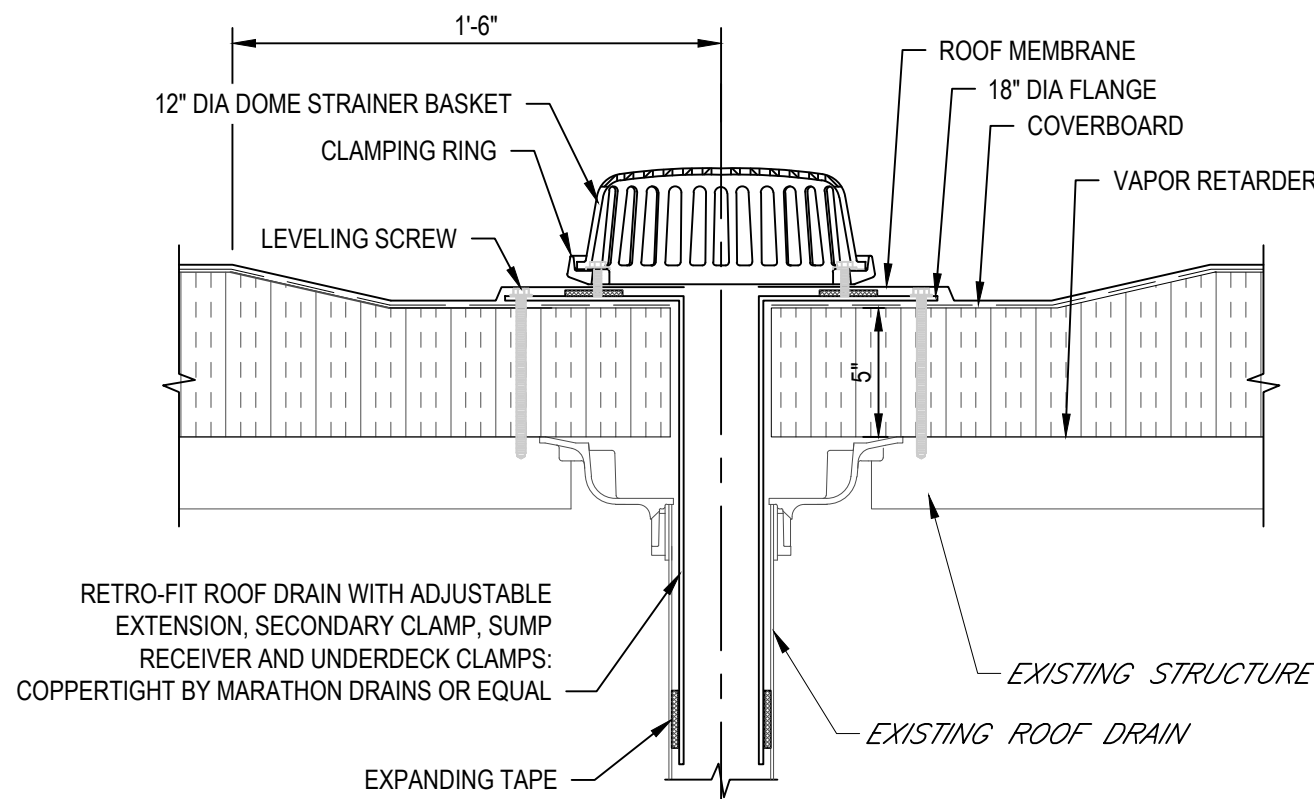
1 ROOF HATCH
A-202 Scale: 1-1/2" = 1'-0"



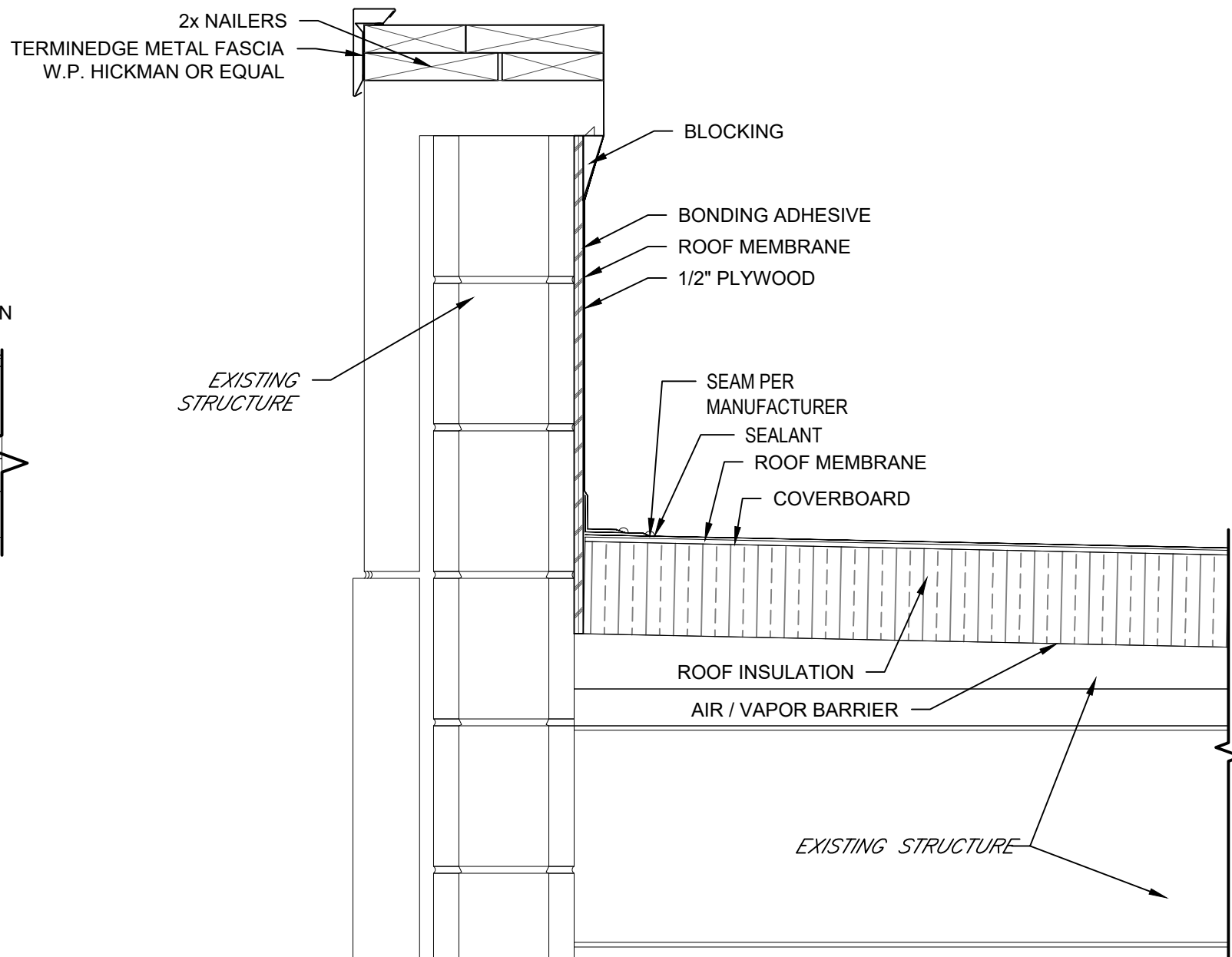
2 EQUIPMENT CURB DETAIL
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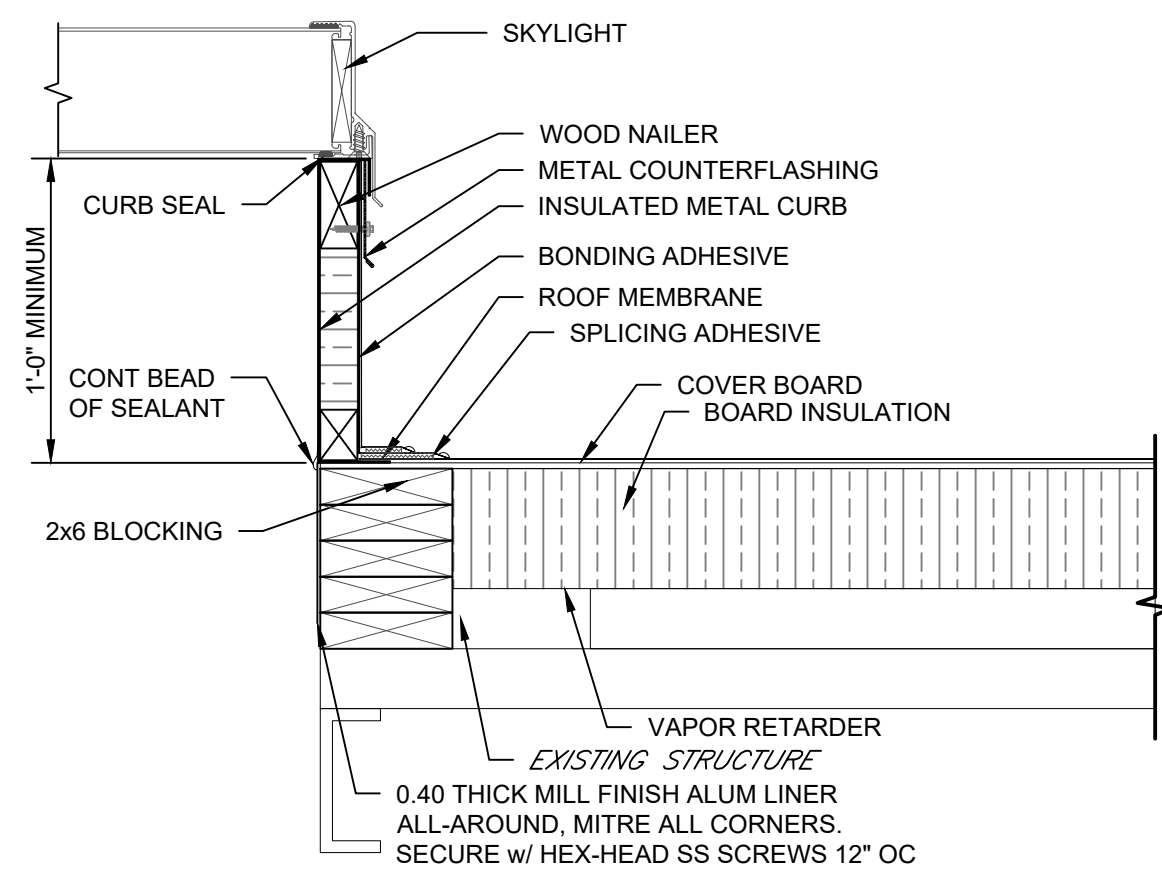
3 CONDUIT DETAIL
A-202 Scale: 1-1/2" = 1'-0"



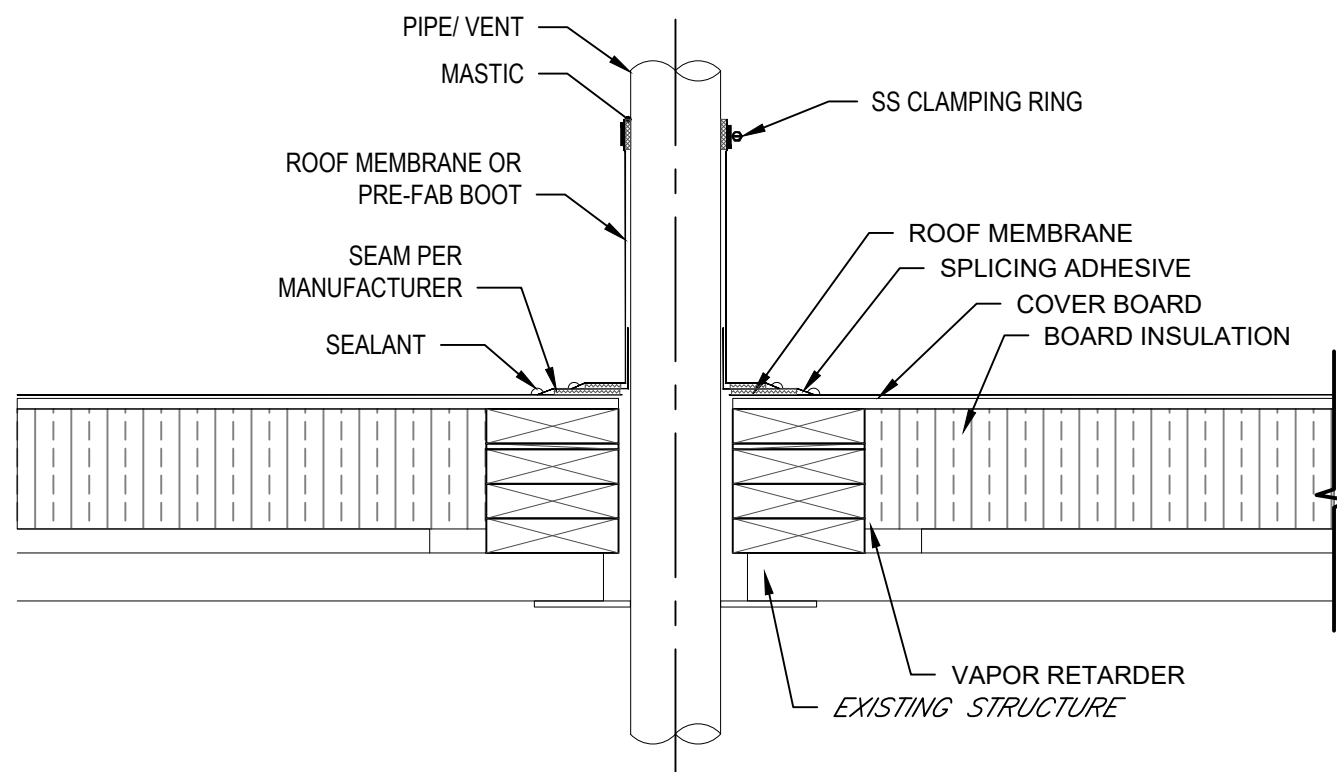
4 RETRO-ROOF DRAIN DETAIL
A-102 Scale: 1-1/2" = 1'-0"



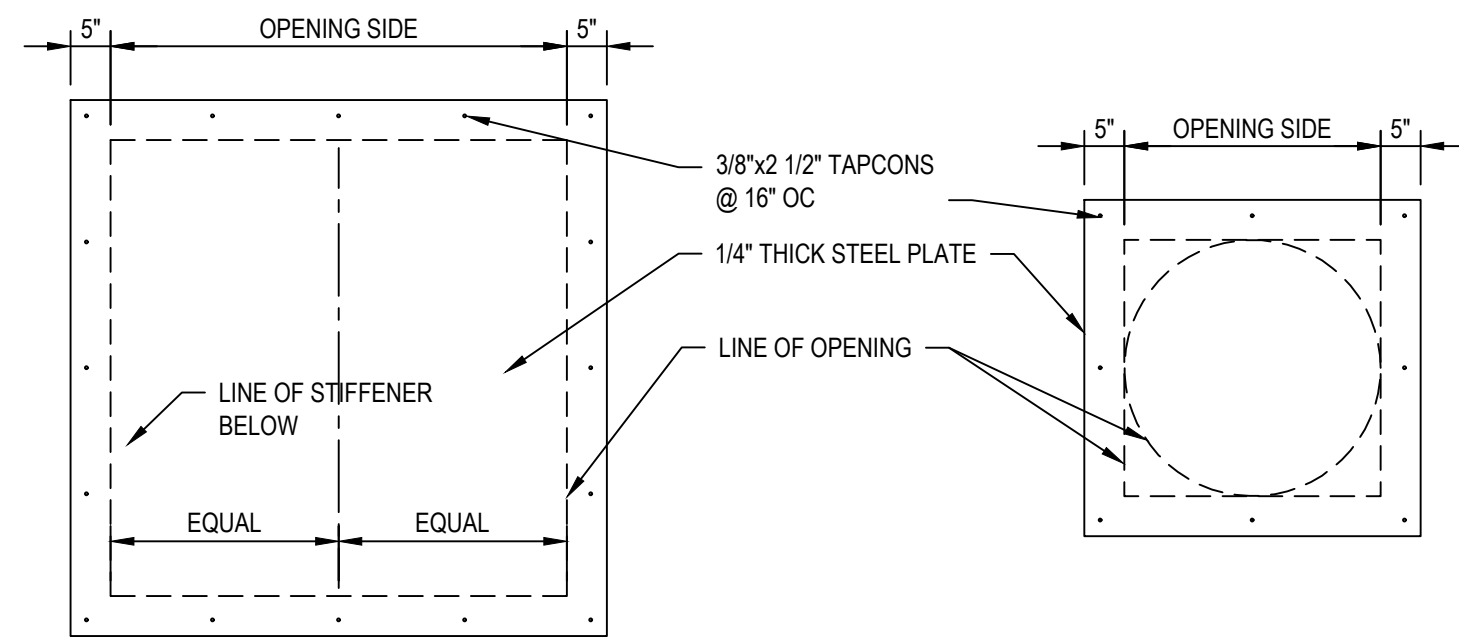
7 PARAPET DETAIL
A-202 Scale: 1-1/2" = 1'-0"



6 SKYLIGHT DETAIL
A-202 Scale: 1-1/2" = 1'-0"



5 PIPE VENT DETAIL
A-102 Scale: 1-1/2" = 1'-0"



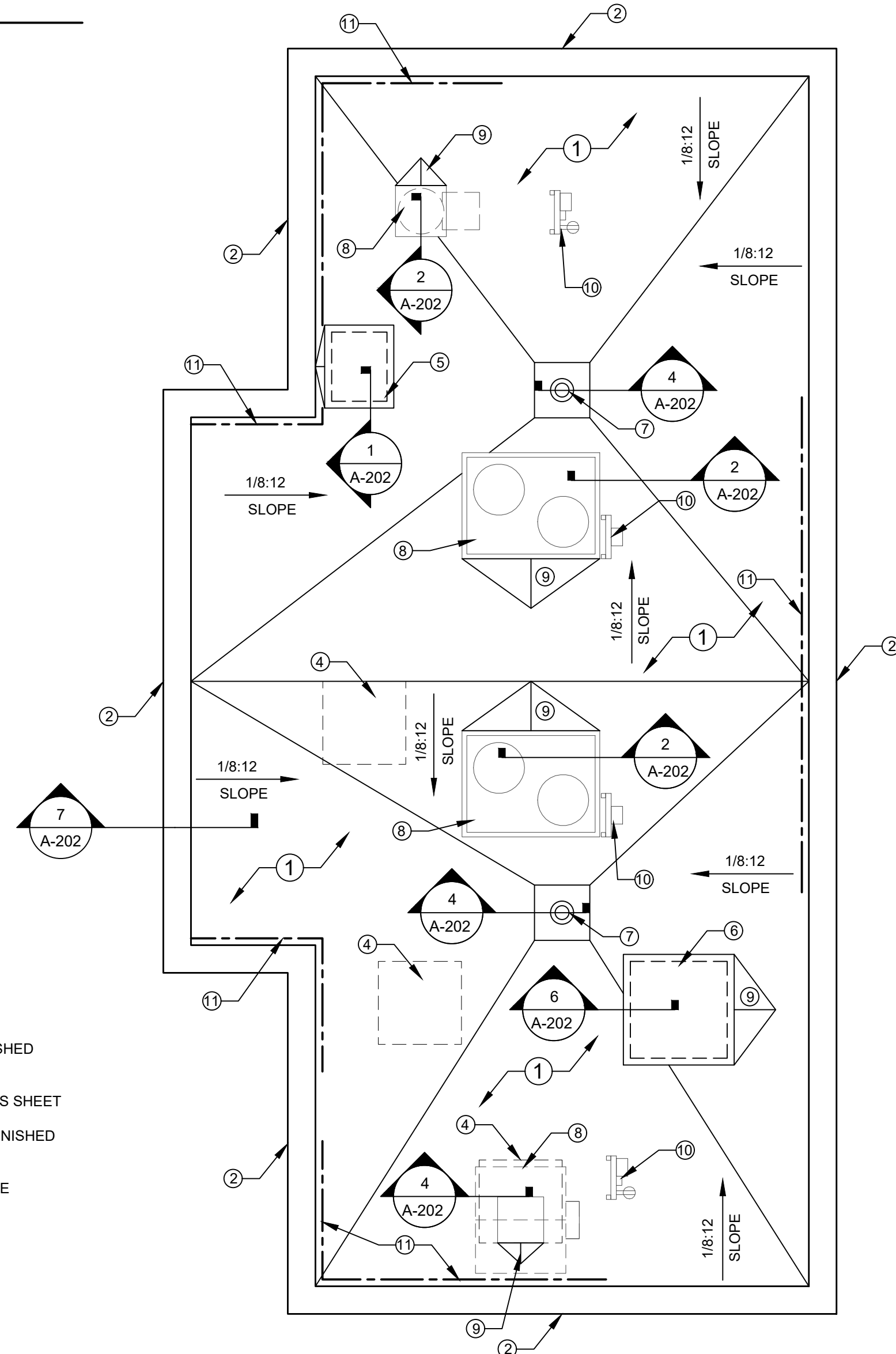
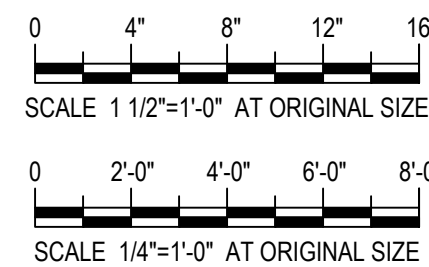
PLAN VIEW
SCALE: 1/2" = 1'-0"

NOTE: OPENINGS 30"x30" OR SMALLER

ROOF OPENING INFILL DETAIL
SCALE: 1/2" = 1'-0"

NOTES:

- 1 NEW SINGLE PLY MEMBRANE ROOF SYSTEM.
- 2 NEW METAL COPING.
- 3 EXTEND EXISTING PIPE VENT TO 12" ABOVE FINISHED ROOF.
- 4 INFILL EXISTING ROOF OPENING: SEE DETAIL THIS SHEET
- 5 NEW ROOF HATCH ON A NEW CURB 12" ABOVE FINISHED ROOF.
- 6 NEW SKYLIGHT ON A NEW ROOF CURB 12" ABOVE FINISHED ROOF.
- 7 NEW RETRO-FIT ROOF DRAIN IN EXISTING DRAIN LOCATION
- 8 NEW HVAC EQUIPMENT ON NEW CURB
- 9 CRICKET
- 10 SEE HVAC/ELECTRICAL DRAWING FOR DETAILS.
- 11 PROVIDE FREE STANDING OSHA COMPLIANT GUARD SYSTEM THAT DOES NOT PENETRATE THE EXISTING ROOFING MEMBRANE. PROVIDE KEEGUARD SAFETY RAILING BY KEE SAFETY INC., RAIL GUARD 200 BY TC SAFETY RAIL, OR EQUAL.



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

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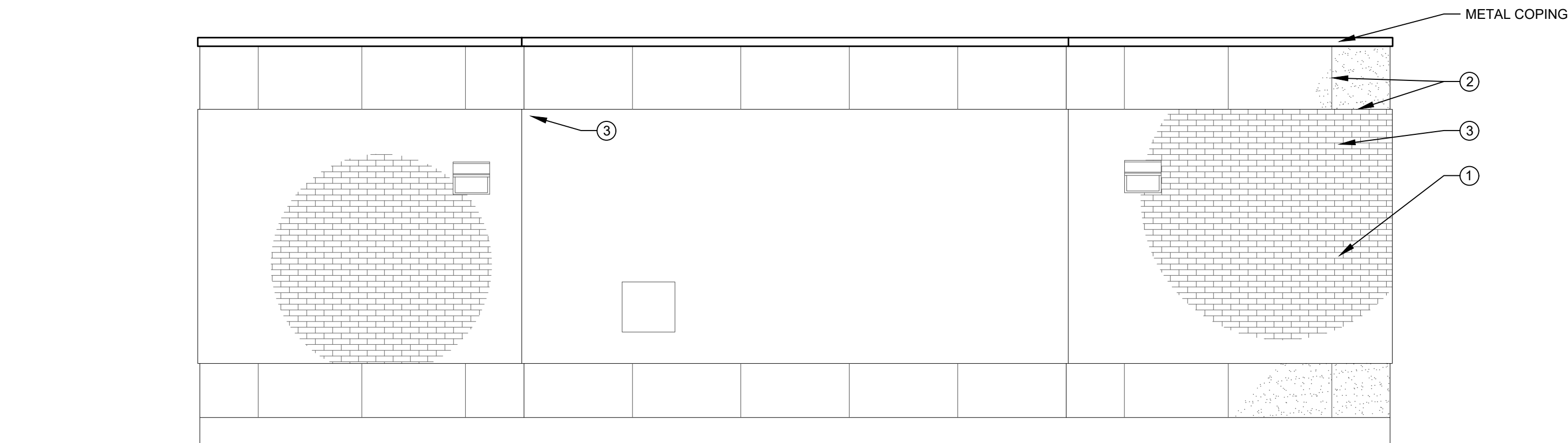
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217 Montgomery Street, Suite 1100
Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**
DRAWING TITLE: **TALLMAN PUMP STATION ROOF PLANS**

DRAWINGS ISSUED FOR / REVISIONS				BY			CHK			APP		
NO.	DATE	ISSUED FOR / REVISION										
1	04/22	60 PERCENT DESIGN REVIEW										
2	07/22	90 PERCENT DESIGN REVIEW										
3	09/22	FOR REGULATORY REVIEW										
4	01/23	100 PERCENT DESIGN REVIEW										
5	03/23	100 PERCENT DESIGN REVIEW										
6	06/23	FOR BID										

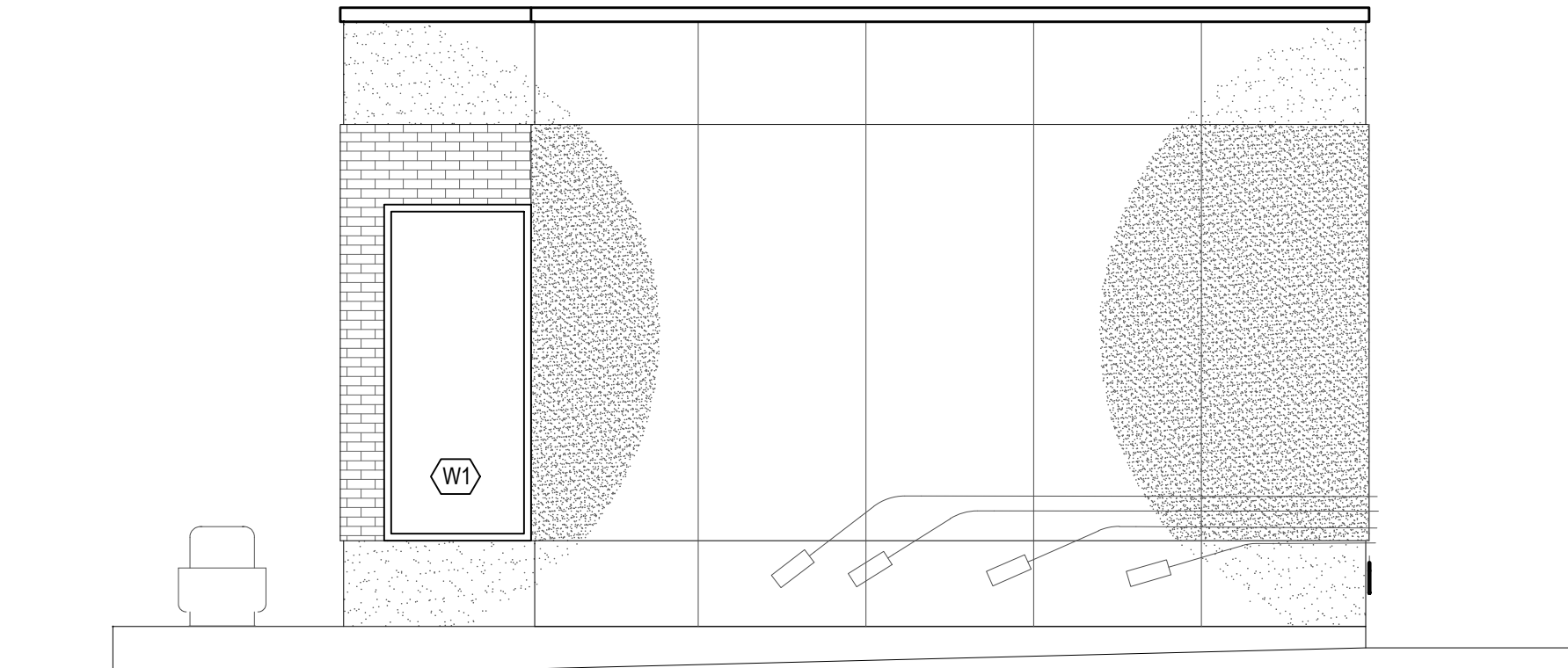
CONTRACT# RFB-RC-SWR-2022-06			EDR JOB# 21213		
			DATE: 06/2023		
			SCALE: AS NOTED		
			DRAWN BY: MJS		
			CHECKED BY: -		
			DRAWING NUMBER:		
			A-202		

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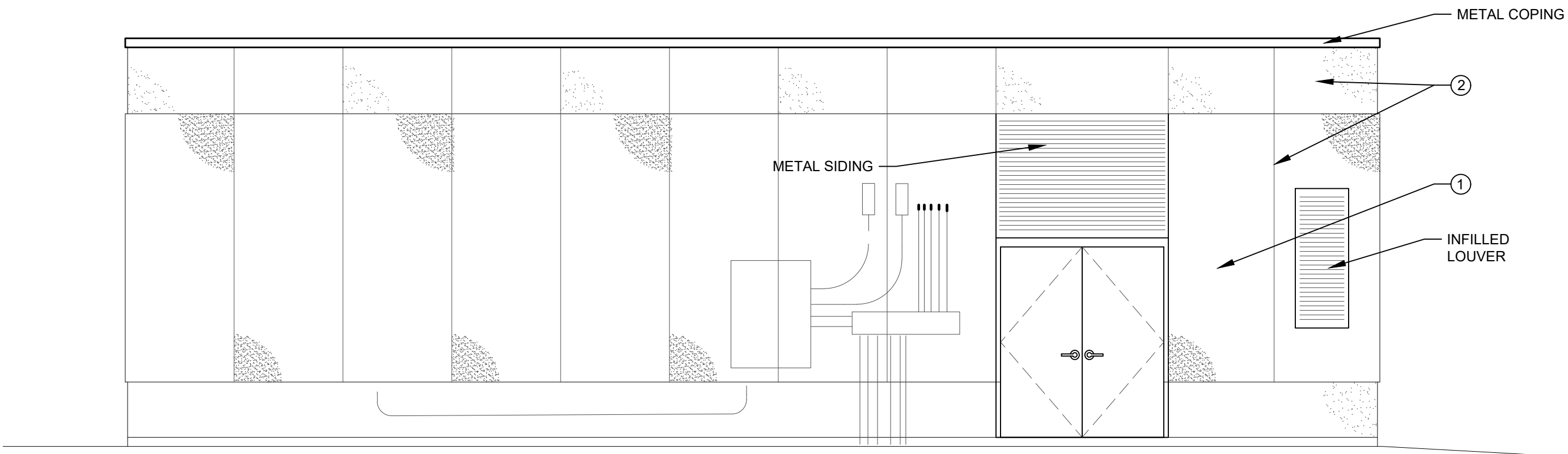
EAST SIDE ELEVATION

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



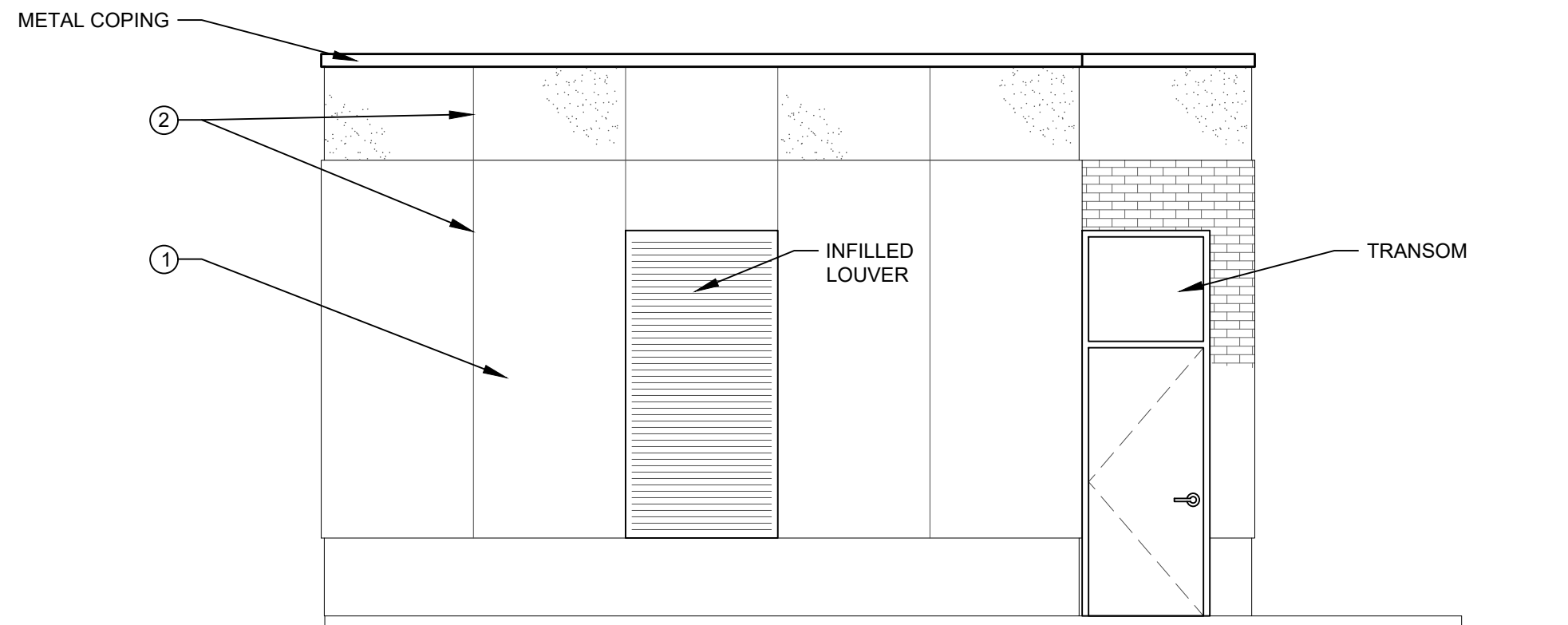
NORTH SIDE ELEVATION

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



WEST SIDE ELEVATION

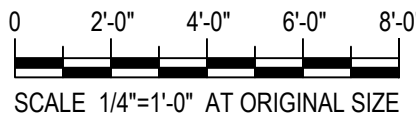
SCALE: 1/4" = 1'-0"



SOUTH SIDE ELEVATION

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

- ① CLEAN EXISTING EXTERIOR WALLS AS PER SPEC SECTION 04300
- ② REMOVE EXISTING ALL SEALANT AND INSTALL SEALANT
- ③ REPAIR BRICK AS REQUIRED



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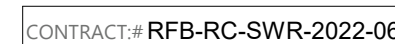
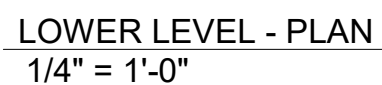
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Syracuse, New York 13202
P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**
DRAWING TITLE: **TALLMAN PUMP STATION
ELEVATIONS**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP		
1	04/22	60 PERCENT DESIGN REVIEW	MJL				
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET		
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET		
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET		
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET		
6	06/23	FOR BID	MJL	RRS	MET		

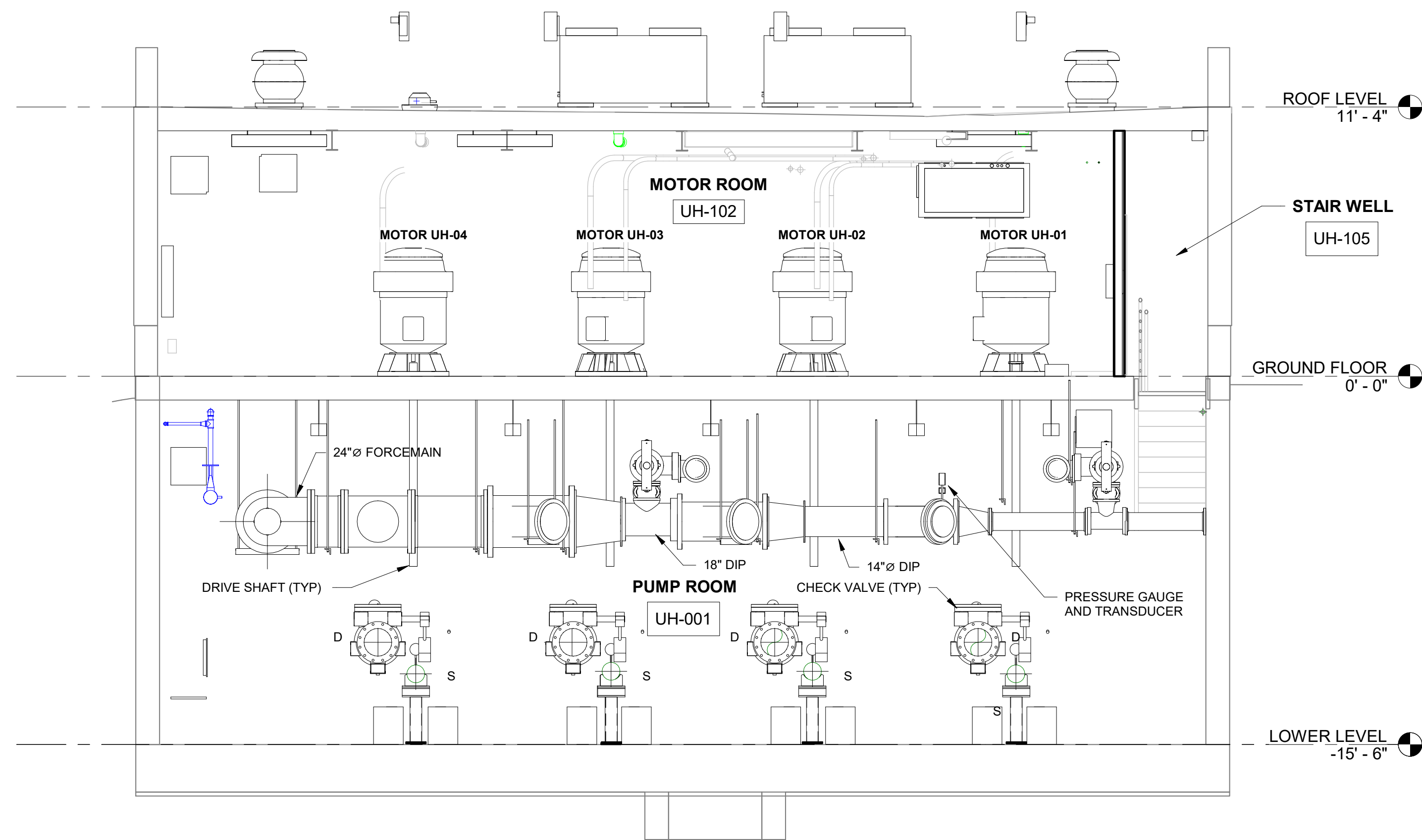
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DATE: **06/2023**
SCALE: **AS NOTED**
DRAWN BY: **MJS**
CHECKED BY: **-**
DRAWING NUMBER: **A-203**



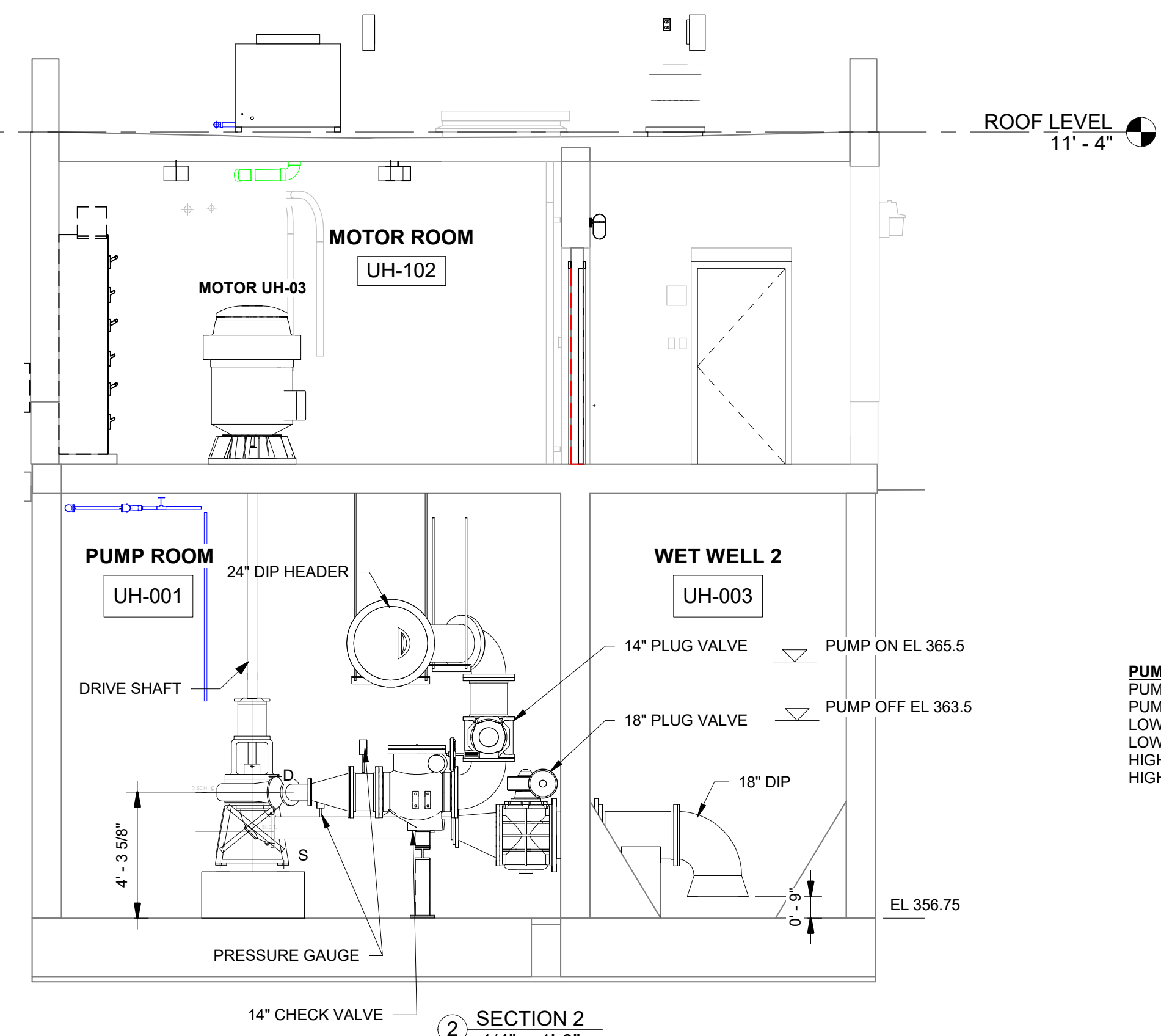
PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADES**

DRAWING TITLE: **UNION HILL PUMP STATION LOWER LEVEL AND GROUND FLOOR PLANS**

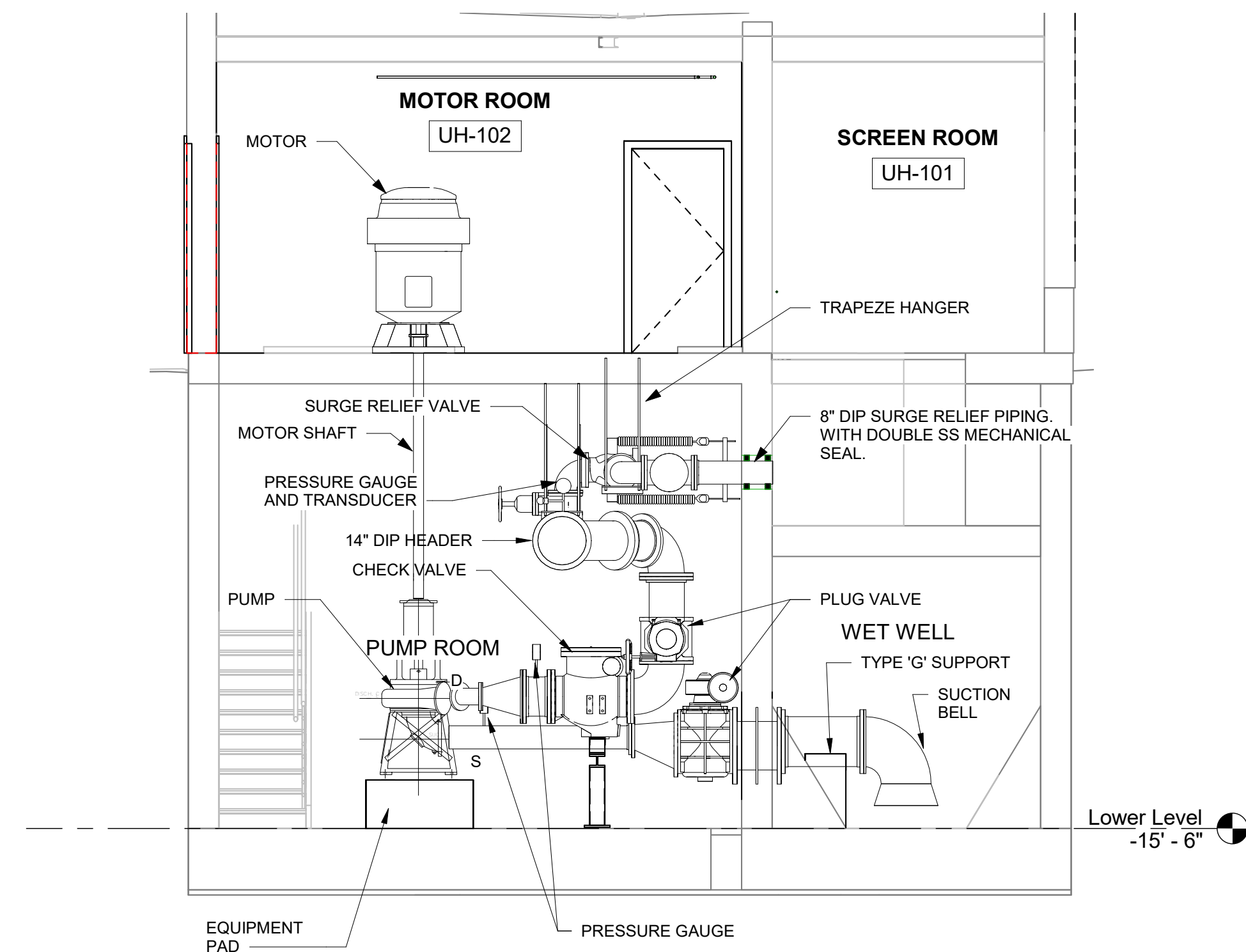
M-101



① SECTION 1
1/4" = 1'-0"



② SECTION 2
1/4" = 1'-0"



③ SECTION 3
1/4" = 1'-0"

PUMPING ELEVATIONS AND ALARMS
PUMP ON: 365.5
PUMP OFF: 363.5
LOW LEVEL: 362.25
LOW, LOW LEVEL: 361.0
HIGH LEVEL: 366.75
HIGH HIGH LEVEL: 368.0

0 2'-0" 4'-0" 6'-0"
SCALE 1/4"=1'-0" AT ORIGINAL SIZE



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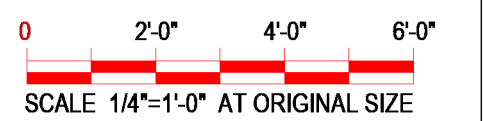
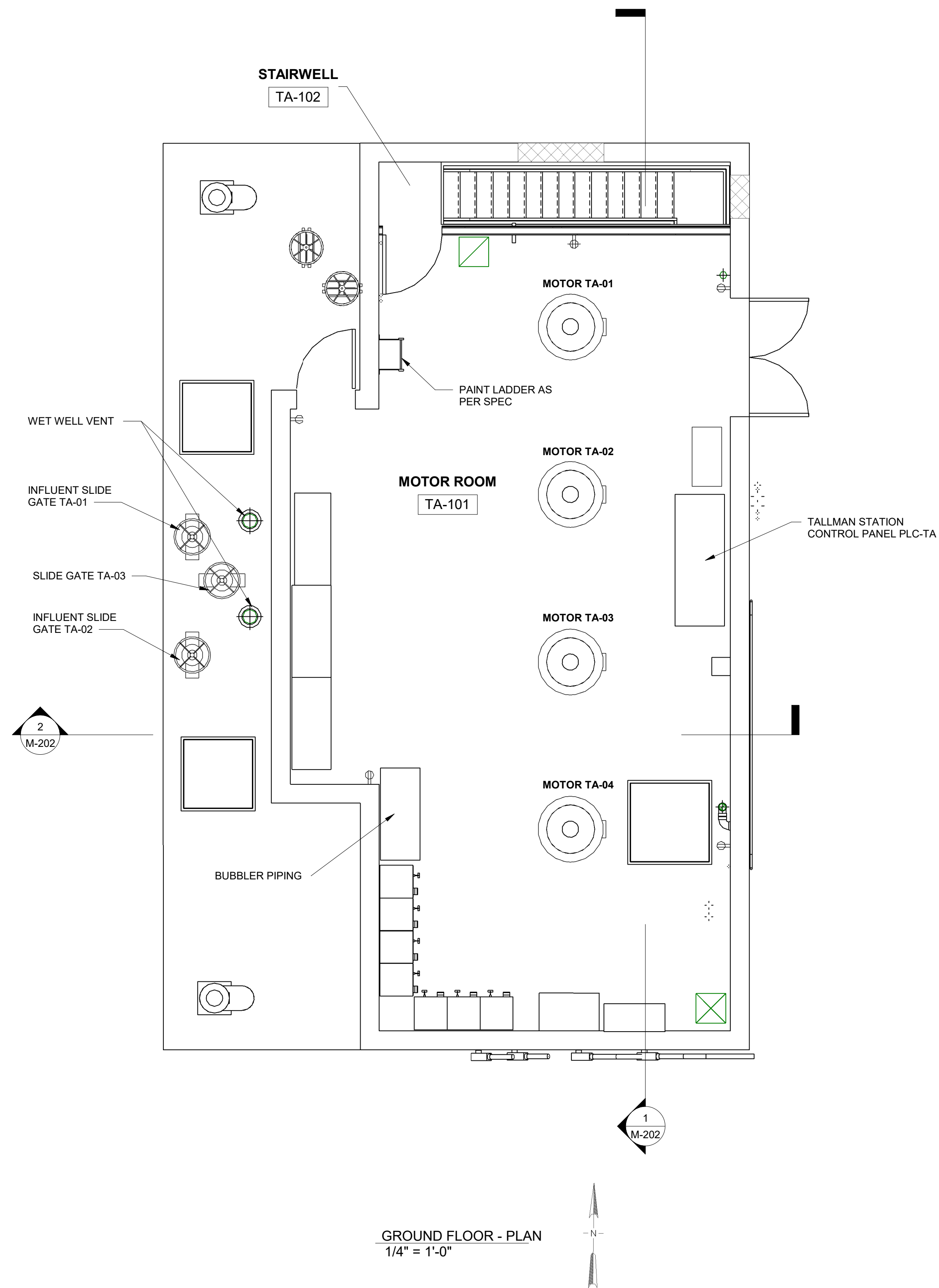
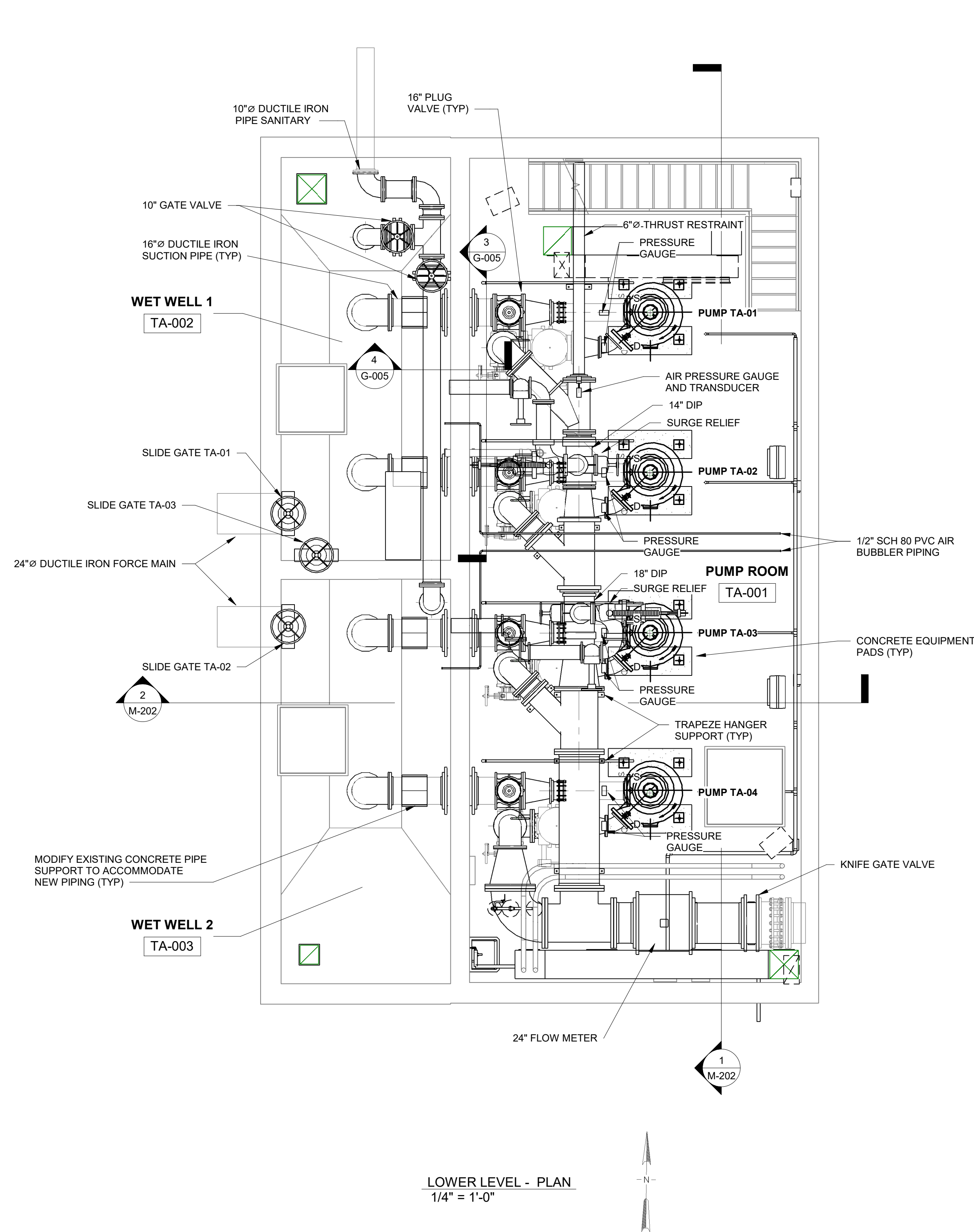
PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADES**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION SECTIONS**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	EDR JOB #21213	
1	04/22	60 PERCENT DESIGN REVIEW	MJL	RRS	MET	DATE: 06/2023	
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	SCALE: 1/4" = 1'-0"	
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWN BY: MJL	
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY: RRS	
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER:	
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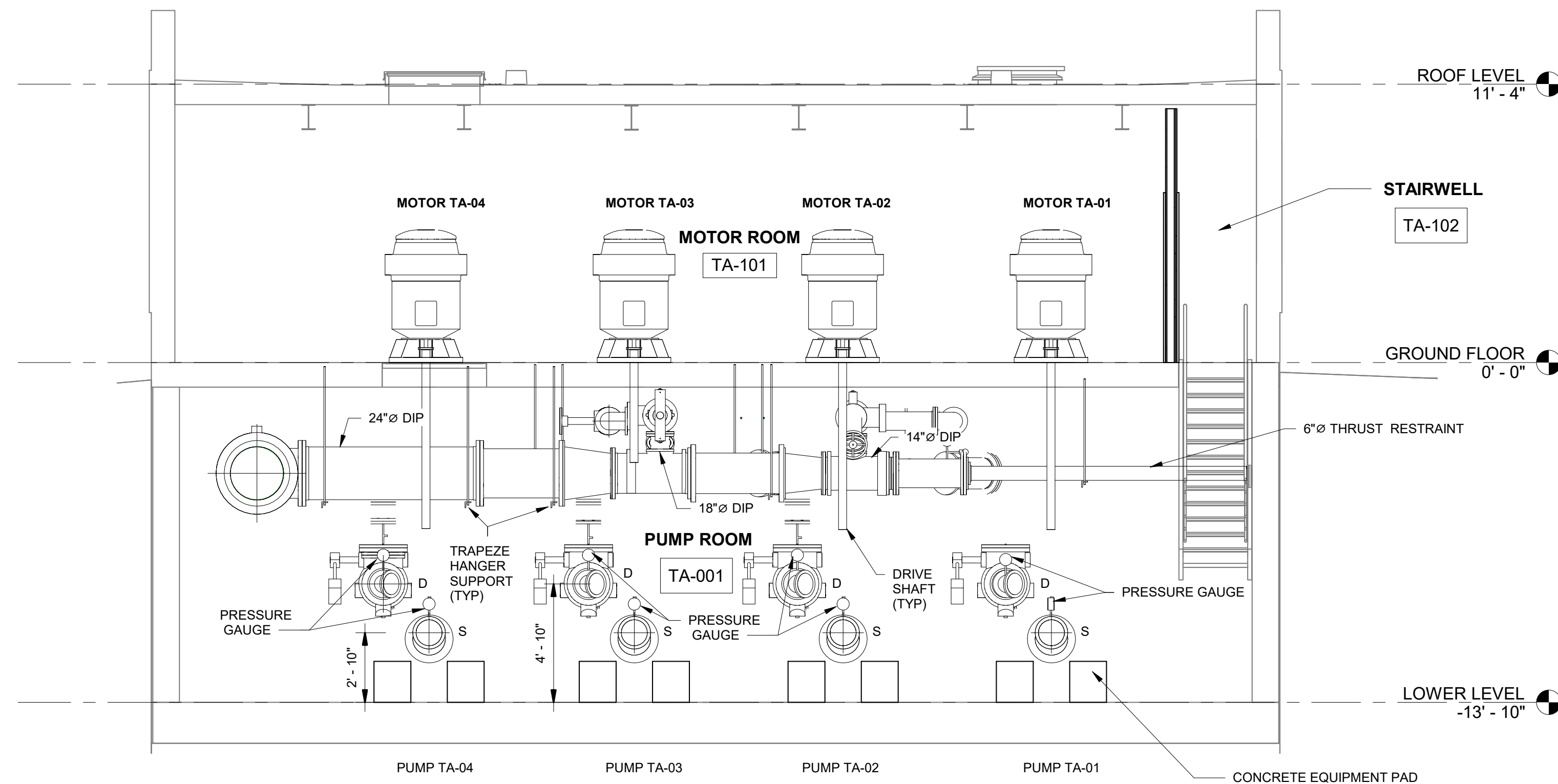
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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

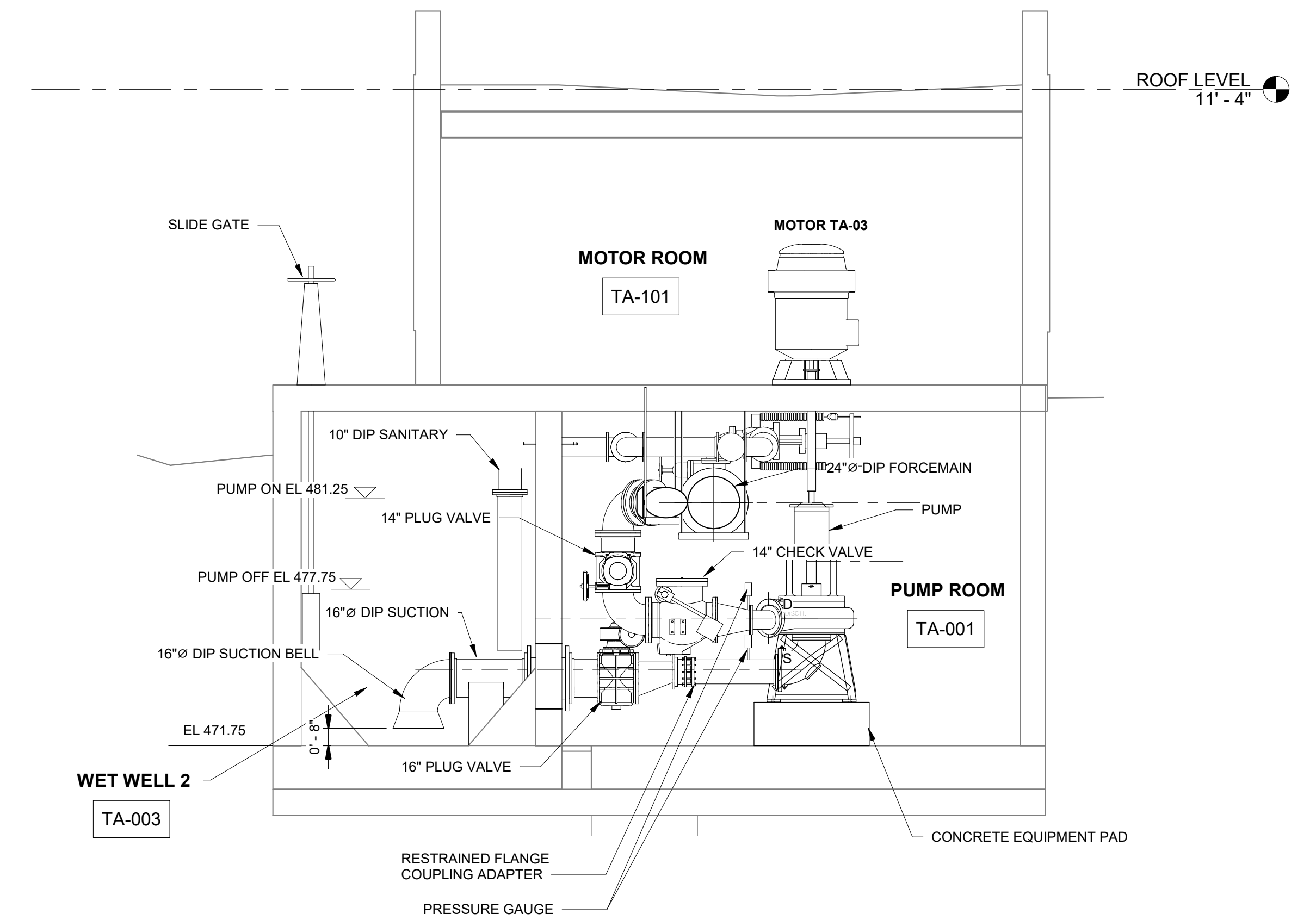
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION LOWER LEVEL AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS							EDR JOB #21213	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE	03/2023	
1	04/22	60 PERCENT DESIGN REVIEW	MJL	RRS	MET	SCALE: 1/4" = 1'-0"		
2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWN BY: MJL		
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4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER: M-201		
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET			
6	03/23	FOR BID	MJL	RRS	MET			



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



PUMPING ELEVATIONS AND ALARMS
PUMP ON: 481.25
PUMP OFF: 477.75
LOW LEVEL: 477.21
LOW, LOW LEVEL: 476.21
HIGH LEVEL: 481.79
HIGH, HIGH LEVEL: 482.33

2 SECTION 2
1/4" = 1'-0"

0 2'-0" 4'-0" 6'-0"
SCALE 1/4"=1'-0" AT ORIGINAL SIZE



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

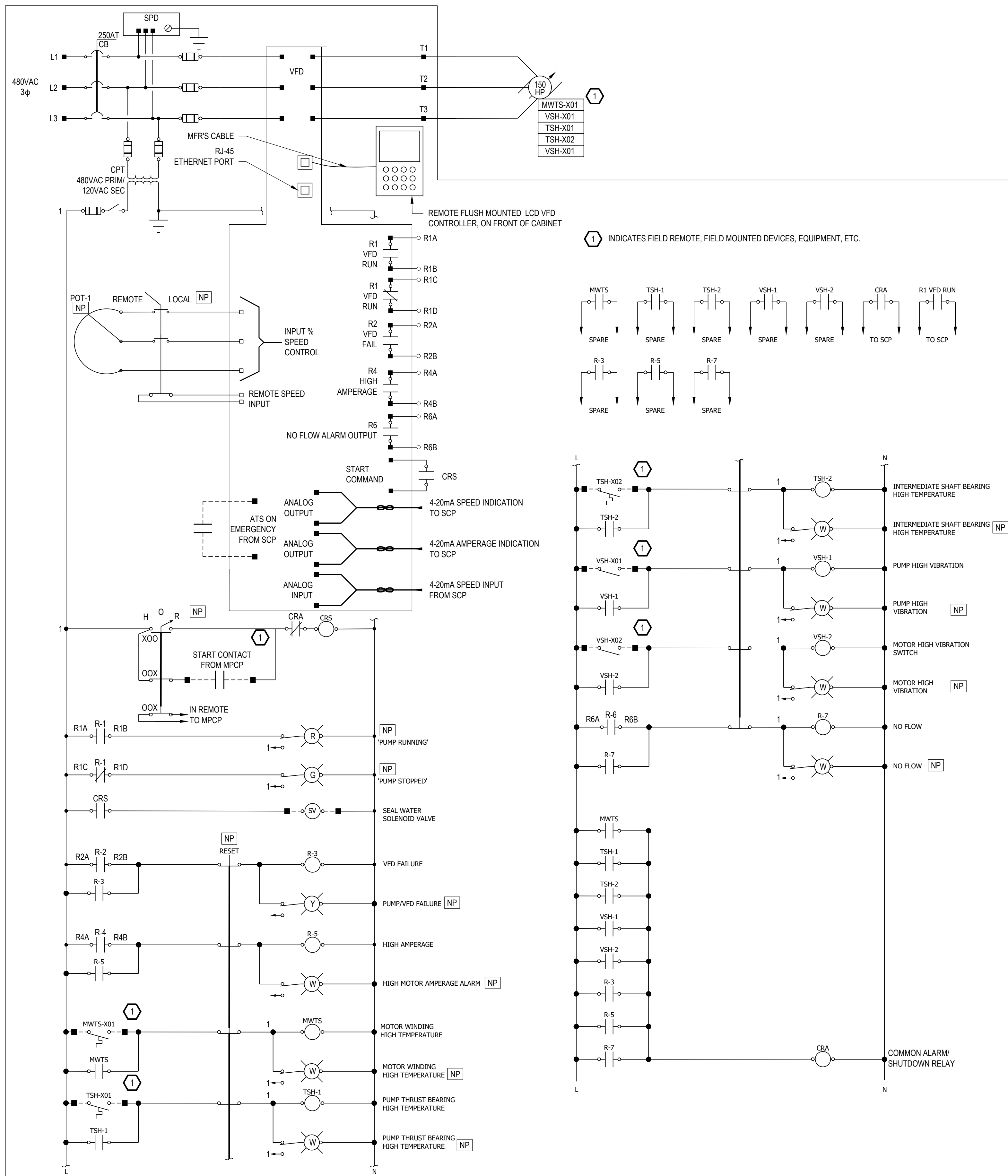
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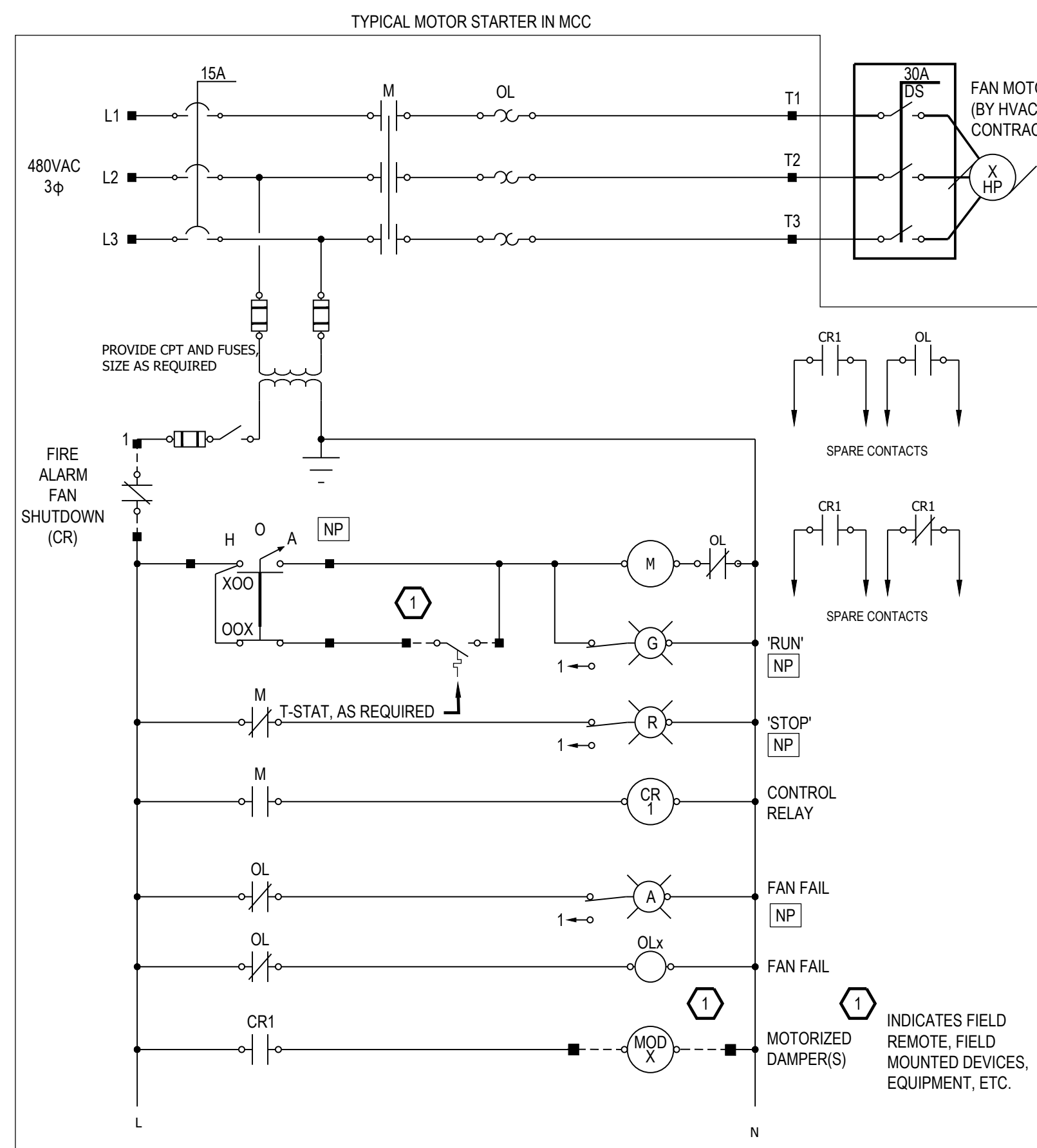
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1	04/22	60 PERCENT DESIGN REVIEW	MJL	RRS	MET	03/2023
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3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWN BY: MJL
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY: RRS
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6	03/23	FOR BID	MJL	RRS	MET	

CONTRACT # RFB-RC-SWR-2022-06
EDR JOB #21213

M-202



PUMP VFD ELEMENTARY DIAGRAM



TYPICAL VENTILATION FAN STARTER ELEMENTARY DIAGRAM

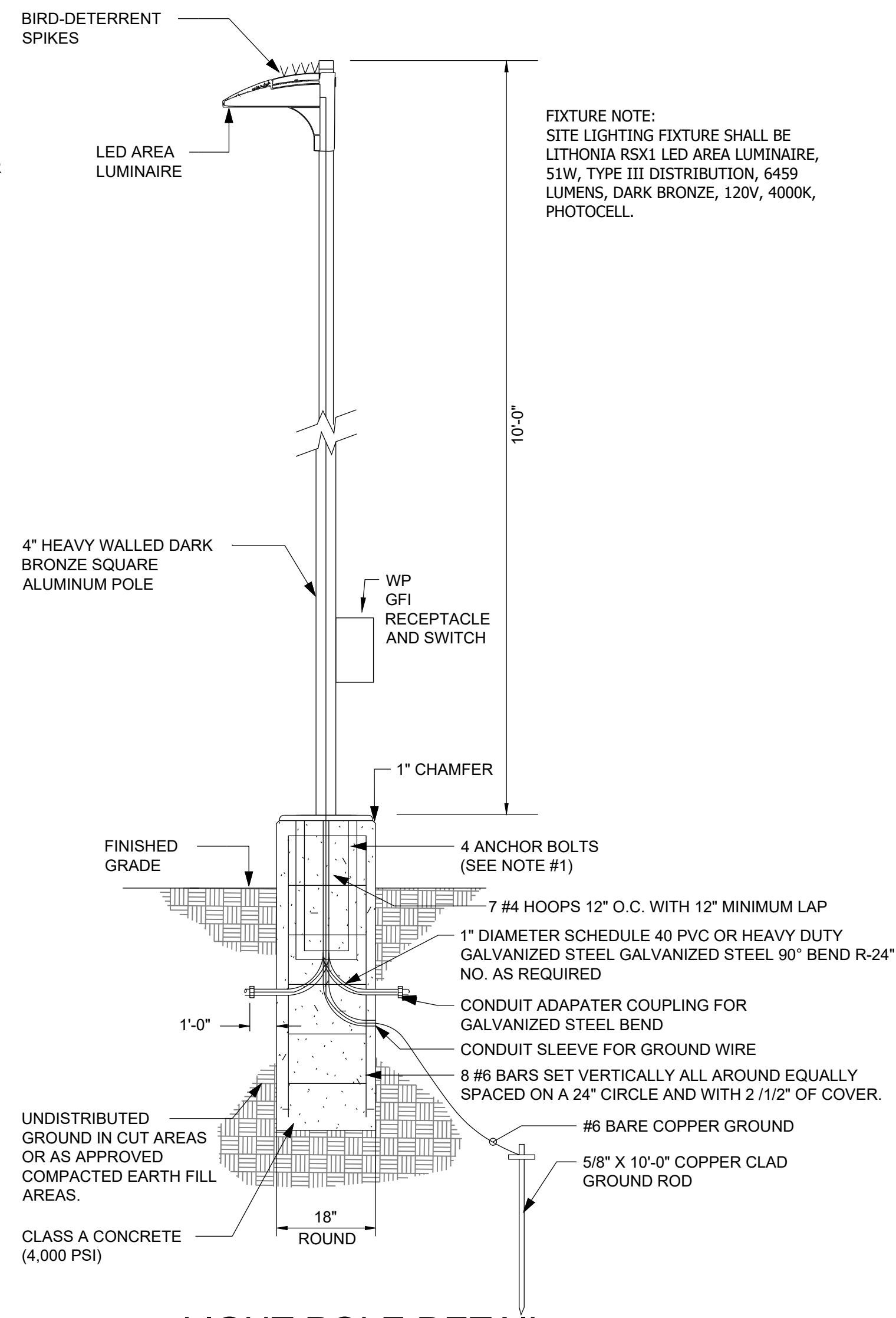
NO SCALE

- NOTES:
1. COORDINATE STARTER CONFIGURATION WITH HVAC SEQUENCE OF OPERATIONS.
 2. FANS ARE TO SHUT DOWN IN THE EVENT OF FIRE/SMOKE DETECTION IN THE SUPPLY DUCT OR EXHAUST DUCT.
 3. REFER TO FLOOR AND SITE PLANS FOR EQUIPMENT AND INSTRUMENTATION LOCATIONS.
 4. REFER TO SINGLE LINE DIAGRAM FOR FAN HORSEPOWER.
 5. "NP" INDICATES NAMEPLATE.
 6. PROVIDE PUSH-TO-TEST TYPE LED PILOT LIGHTS.
 7. PROVIDE #12 WIRING AND 3/4" TO ALL REMOTE DEVICES AS REQUIRED.
 8. PROVIDE STARTERS FOR SF-1 AND EF-1.

- NOTES:
1. THIS ELEMENTARY IS TYPICAL FOR THE FOLLOWING PUMPS

- TALLMAN PUMP STATION
-INFLUENT PUMP NO.1
-INFLUENT PUMP NO.2
-INFLUENT PUMP NO.3
-INFLUENT PUMP NO.4
- UNION HILL PUMP STATION
-INFLUENT PUMP NO.1
-INFLUENT PUMP NO.2
-INFLUENT PUMP NO.3
-INFLUENT PUMP NO.4

2. UNLESS NOTED OTHERWISE, ALL DEVICES SHOWN ON THE CONTROL ELEMENTARY ARE LOCATED IN THE VFD ENCLOSURE.
3. REFER TO FLOOR AND SITE PLANS FOR EQUIPMENT AND INSTRUMENTATION LOCATIONS.
4. "NP" INDICATES NAMEPLATE.
5. PROVIDE PUSH-TO-TEST TYPE LED PILOT LIGHTS.

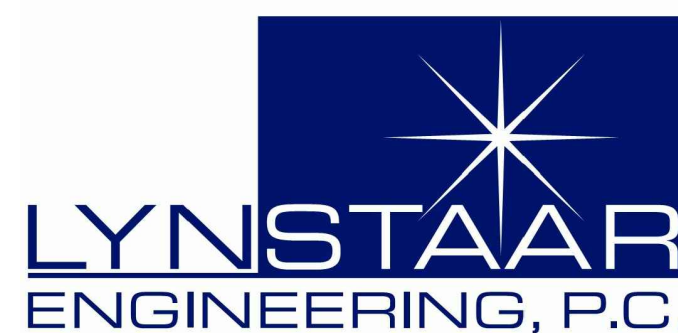


LIGHT POLE DETAIL

NO SCALE

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE POLE MANUFACTURER PRIOR TO INSTALLATION OF THE FOUNDATIONS.
2. CHAMFER EXPOSED EDGES OF ALL FOUNDATIONS.
3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED ENDS (IN BASE OF POLE) OF ALL GALVANIZED STEEL BEAMS.
4. COLOR OF LUMINAIRES SHALL MATCH COLOR OF POLE.
5. POLE BASES SHALL BE 60" OVERALL LENGTH, 48" EMBEDMENT, 12" EXPOSURE.

LIGHTING FIXTURE SCHEDULE							
TYPE	LAMP	MOUNTING	VOLTAGE/ LOAD	MANUFACTURER	MODEL	COLOR TEMPERATURE	COMMENTS
<div> <div></div> <div>A</div> </div> <div> <div></div> <div>A EM</div> </div>	LED	CEILING PENDANT	120V/ 24W	LITHONIA LIGHTING	FEM LED	4000K	4' WET LISTED ENCLOSED AND GASKETED LED LUMINAIRE WITH ACRYLIC LINEAL RIBBED FROSTED LENS 4000 LUMEN OUTPUT, 80 CRI AND MEDIUM LIGHTING DISTRIBUTION. FIXTURES WITH 'A EM' DESIGNATION PROVIDED WITH LED BATTERY PACK, OR APPROVED EQUAL
<div> <div></div> <div>A2</div> </div> <div> <div></div> <div>A2 EM</div> </div>	LED	CEILING PENDANT	120V/ 50W	LITHONIA LIGHTING	FEM LED	4000K	4' WET LISTED ENCLOSED AND GASKETED LED LUMINAIRE WITH ACRYLIC LINEAL RIBBED FROSTED LENS 8000 LUMEN OUTPUT, 80 CRI AND MEDIUM LIGHTING DISTRIBUTION. FIXTURES WITH 'A EM' DESIGNATION PROVIDED WITH LED BATTERY PACK, OR APPROVED EQUAL
<div> <div></div> <div>B</div> </div> <div> <div></div> <div>B EM</div> </div>	LED	CEILING PENDANT	120V/ 47W	HOLOPHANE	HXPL SERIES	4000K	4' EXPLOSION PROOF/HAZARDOUS LOCATION RATED LED LUMINAIRE WITH IMPACT RESISTANT GLASS TUBE, CORROSION RESISTANT ALUMINUM ALLOY HOUSING, 5000 LUMEN OUTPUT, 80 CRI AND MEDIUM LIGHTING DISTRIBUTION. FIXTURES WITH 'B EM' DESIGNATION PROVIDED WITH LED BATTERY PACK, OR APPROVED EQUAL
<div>EXIT</div> <div> </div>	NONE	WALL SURFACE	0 V/0 W	LITHONIA LIGHTING	D SERIES SELF- LUMINOUS	NONE	TRITIUM FILLED, EXPLOSION PROOF/HAZARDOUS LOCATION RATED SELF LUMINOUS, SINGLE FACE EXIT SIGN WITH ALUMINUM ANODIZED FRAME AND HOUSING, RED FACEPLATE AND 20 YEAR LUMINOUS LIFE AND RATED FOR WET LOCATIONS, OR APPROVED EQUAL
<div> <div></div> <div>H</div> </div>	LED	WALL SURFACE	120 V/ 9-51W	LITHONIA LIGHTING	TWR LED ALO SERIES	4000K	1,100-6,200 LUMEN FIELD ADJUSTABLE LIGHT OUTPUT, DARK BRONZE FINISH, DIE CAST ALUMINUM HOUSING, WET LOCATION, PRISMATIC GLASS LENS



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

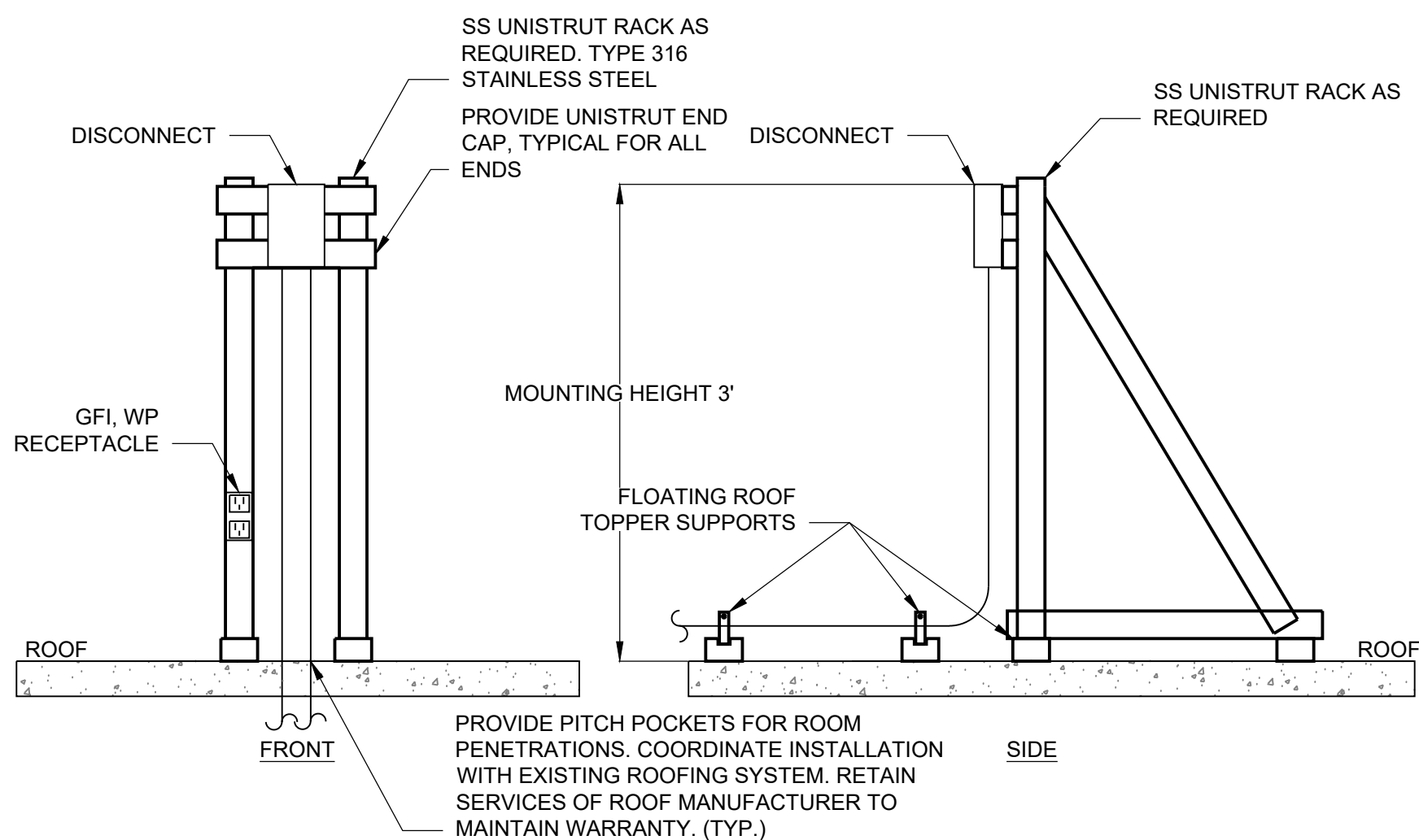
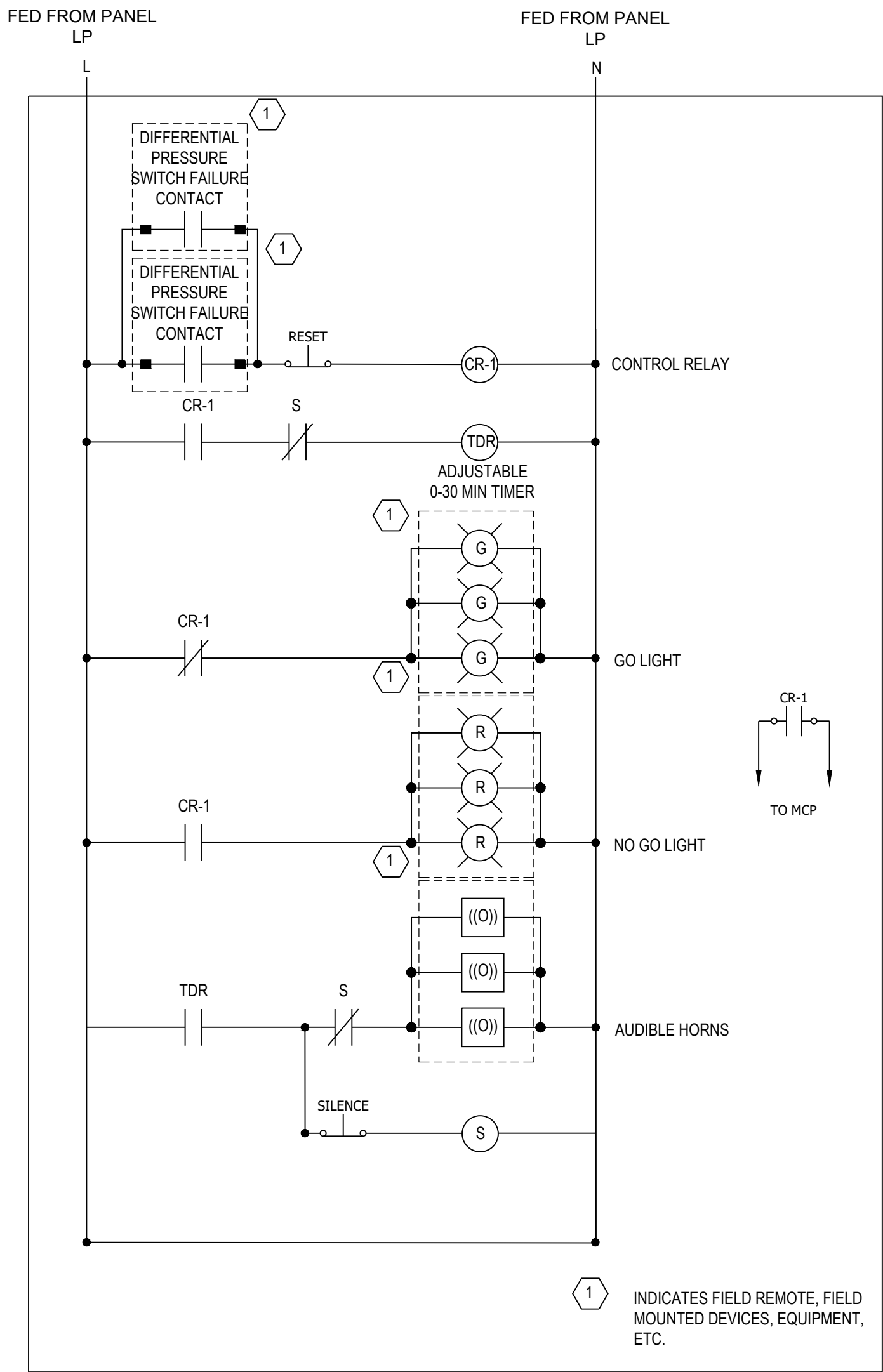
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: MISCELLANEOUS DETAILS I

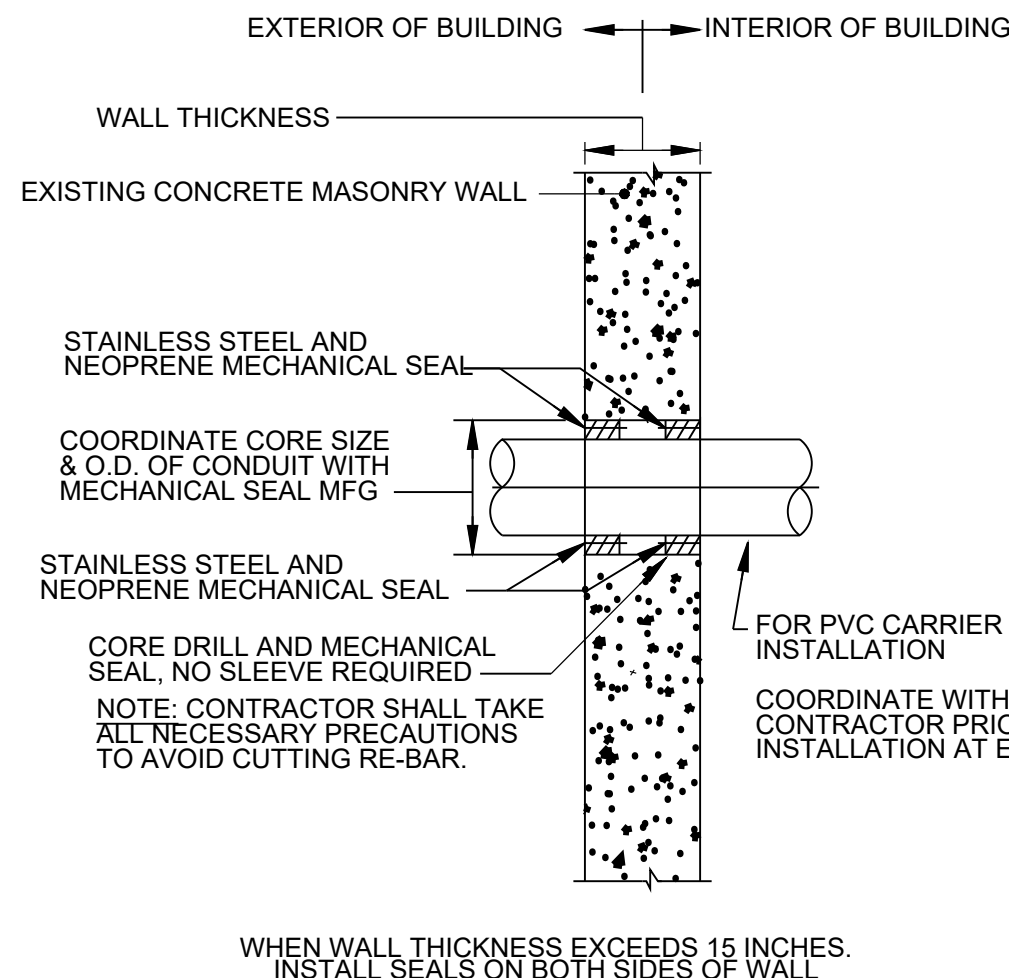
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWN BY:	BG
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	CHECKED BY:	GRL/JGD
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:	E-002
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6	06/23	FOR BID	LSE	JGD	GRL		

Date Printed: 6/11/2023 10:08:01 AM
Pydipha22113 Union Hill and Tallman Ave Sewer Pump Station Details.dwg



ROOF MOUNTED DISCONNECT MOUNTING DETAIL

NO SCALE



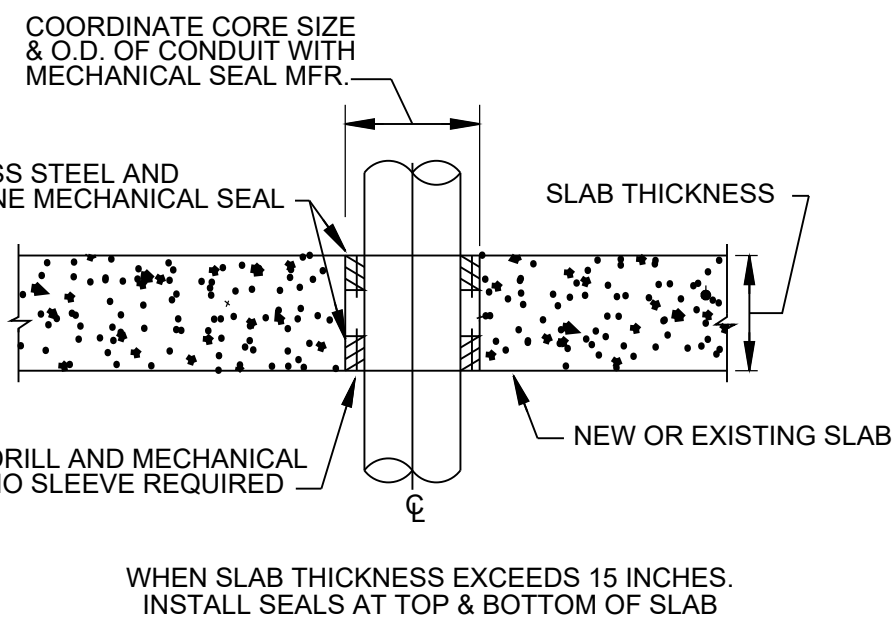
CONDUIT PENETRATION THRU CONCRETE WALL

NO SCALE

TYPICAL UNIT HEATER SCHEMATIC DIAGRAM

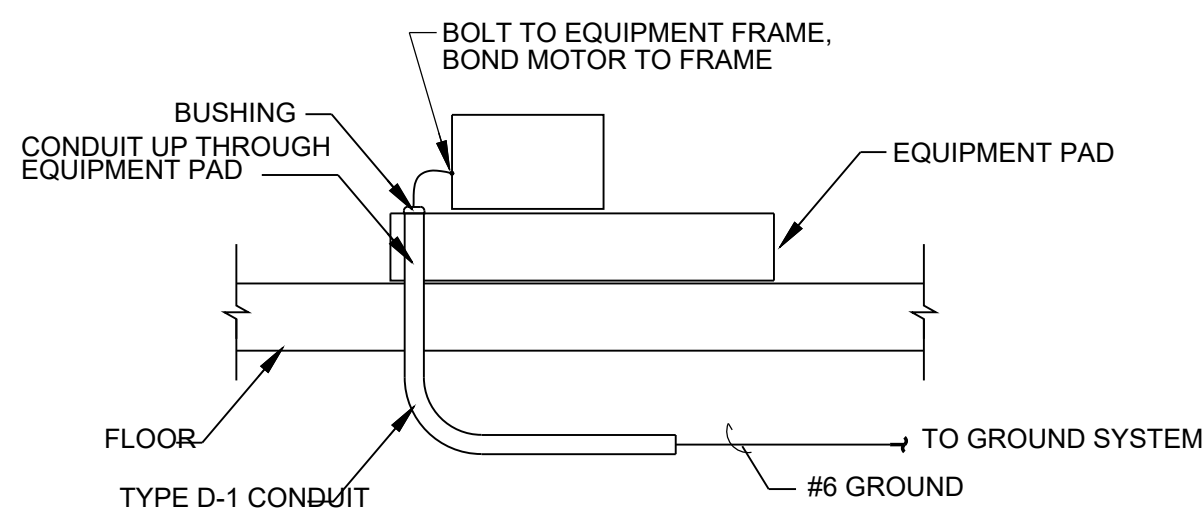
NO SCALE

NOTES:
1. SEE FLOOR PLANS AND POWER SINGLE LINE DIAGRAMS FOR POWER WIRING REQUIREMENTS.



CONDUIT PENETRATION THRU CONCRETE SLAB

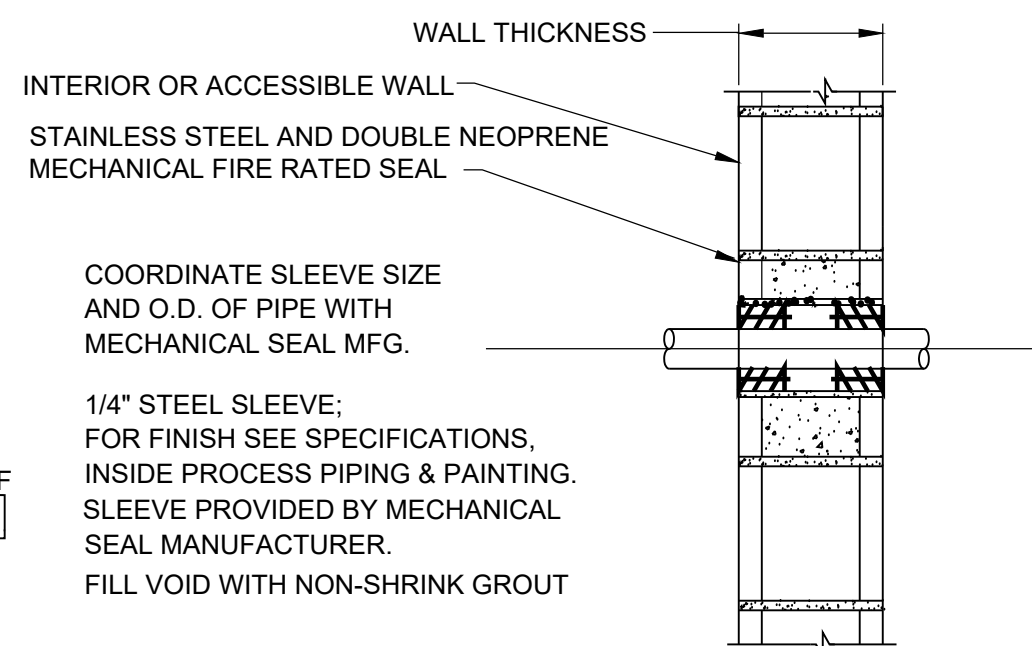
NO SCALE



EQUIPMENT GROUNDING DETAIL

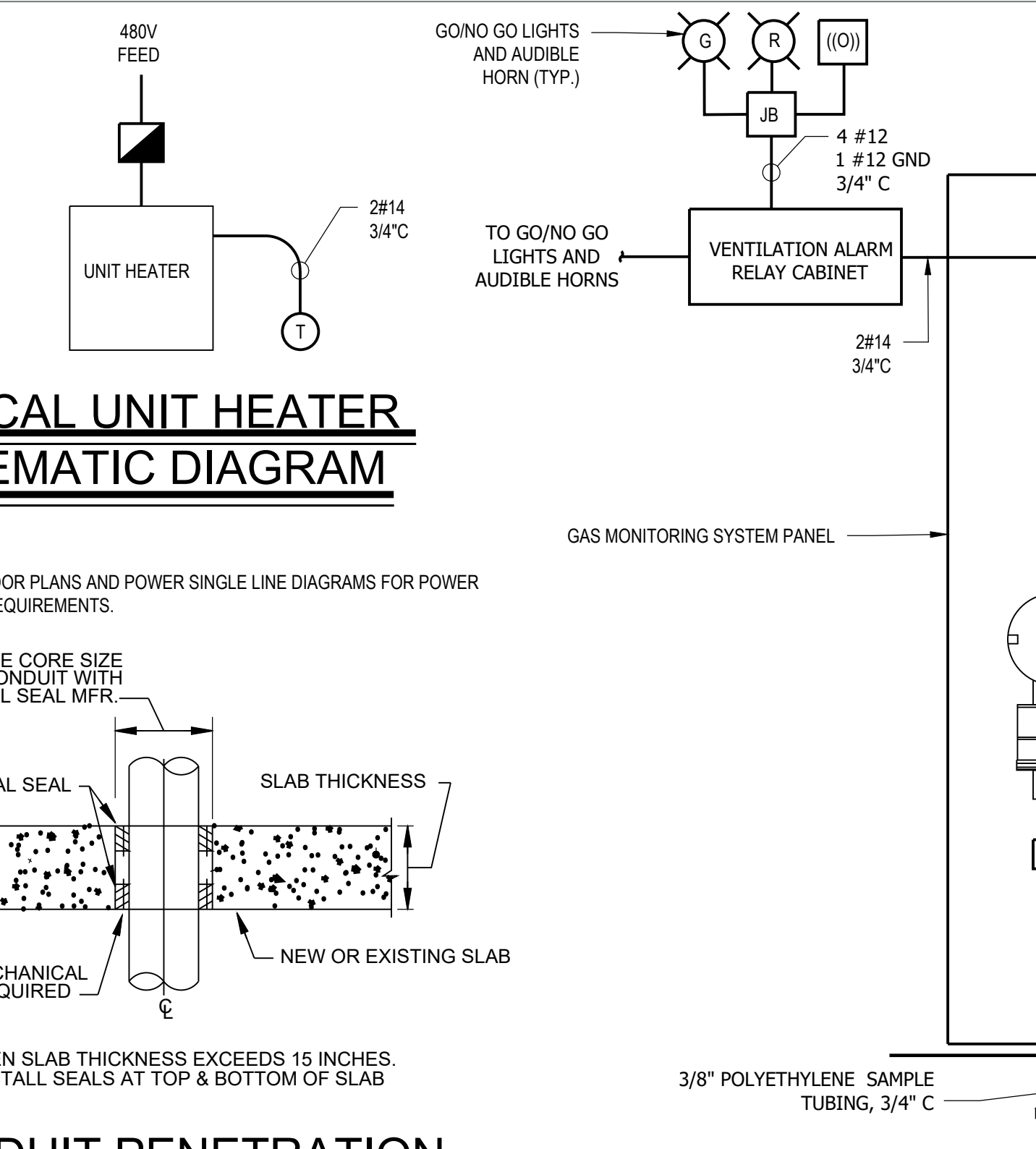
NO SCALE

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



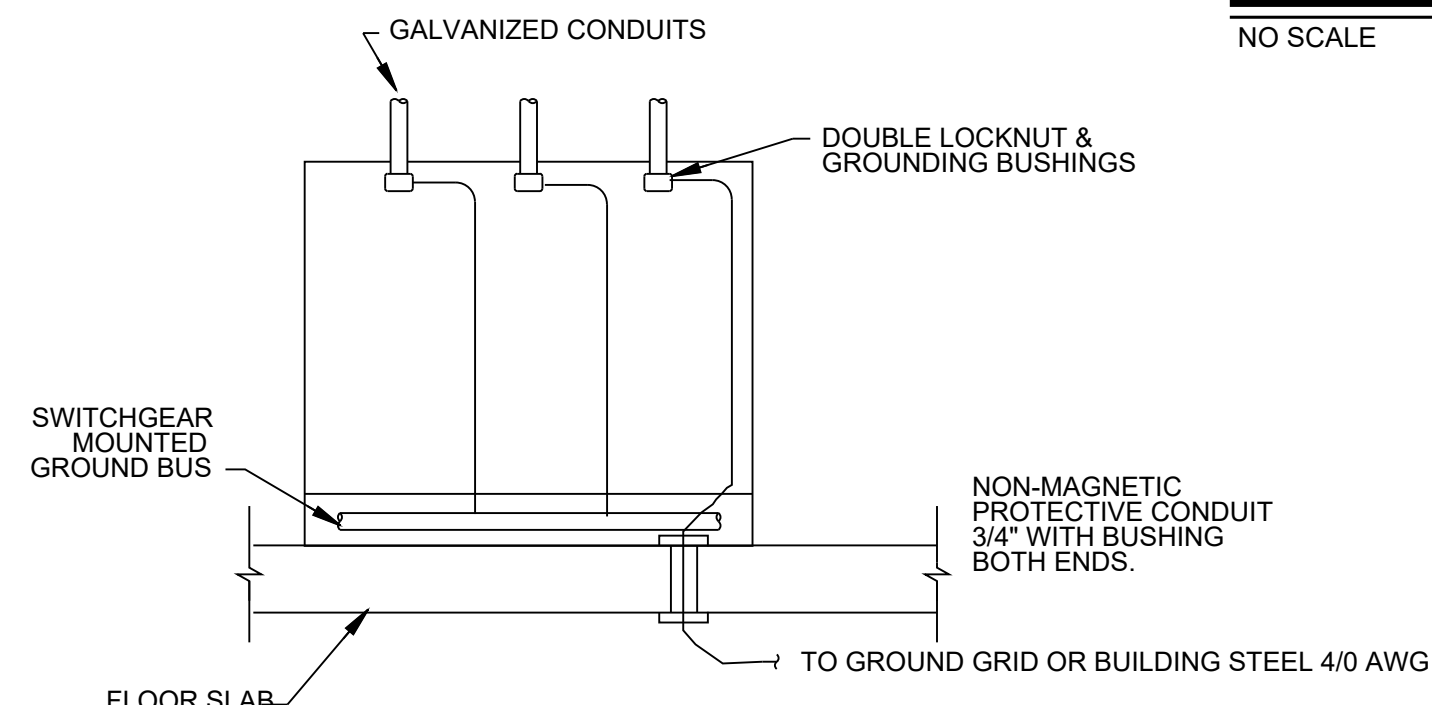
TYPICAL CONDUIT PENETRATION THRU FIRE RATED BLOCK WALL

NO SCALE



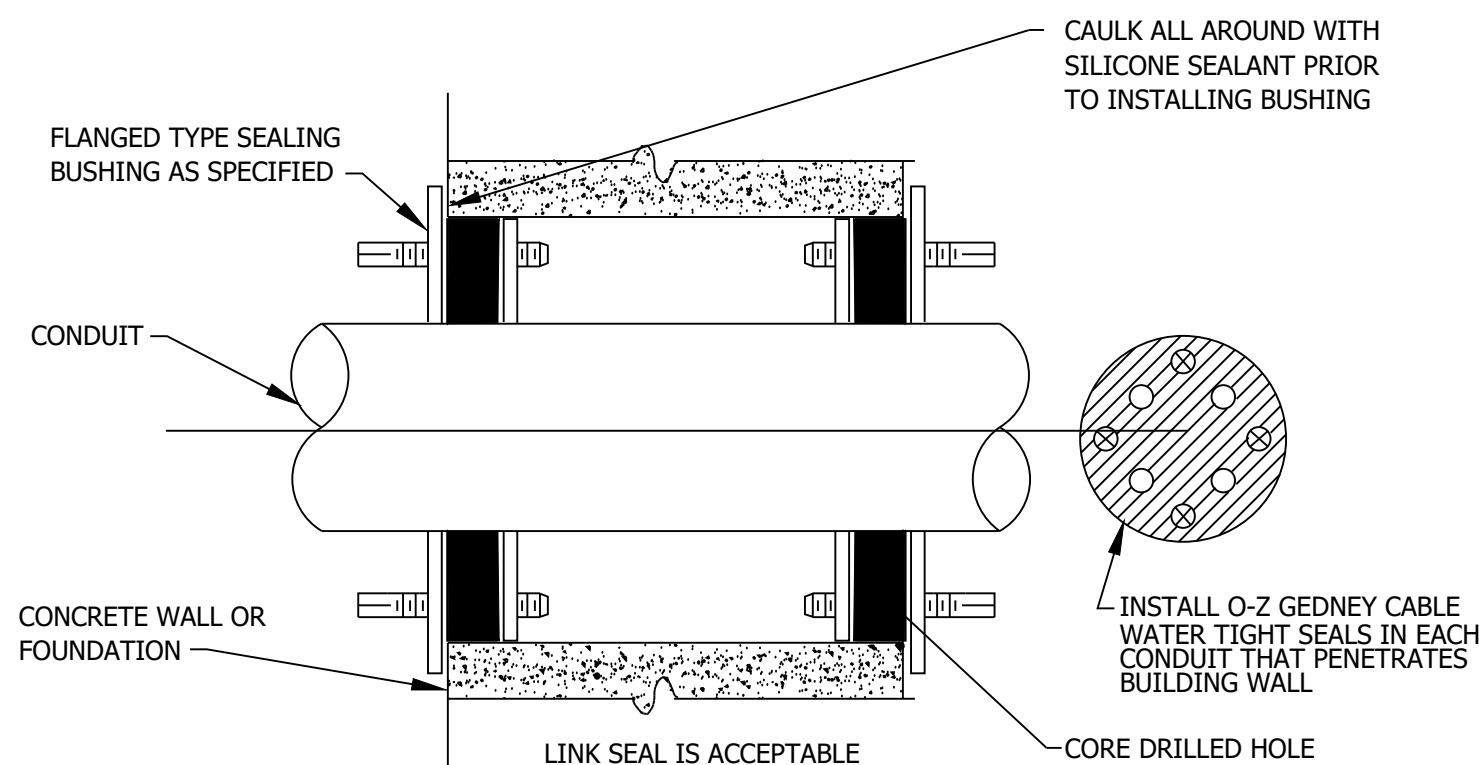
CONDUIT PENETRATION THRU CONCRETE SLAB

NO SCALE



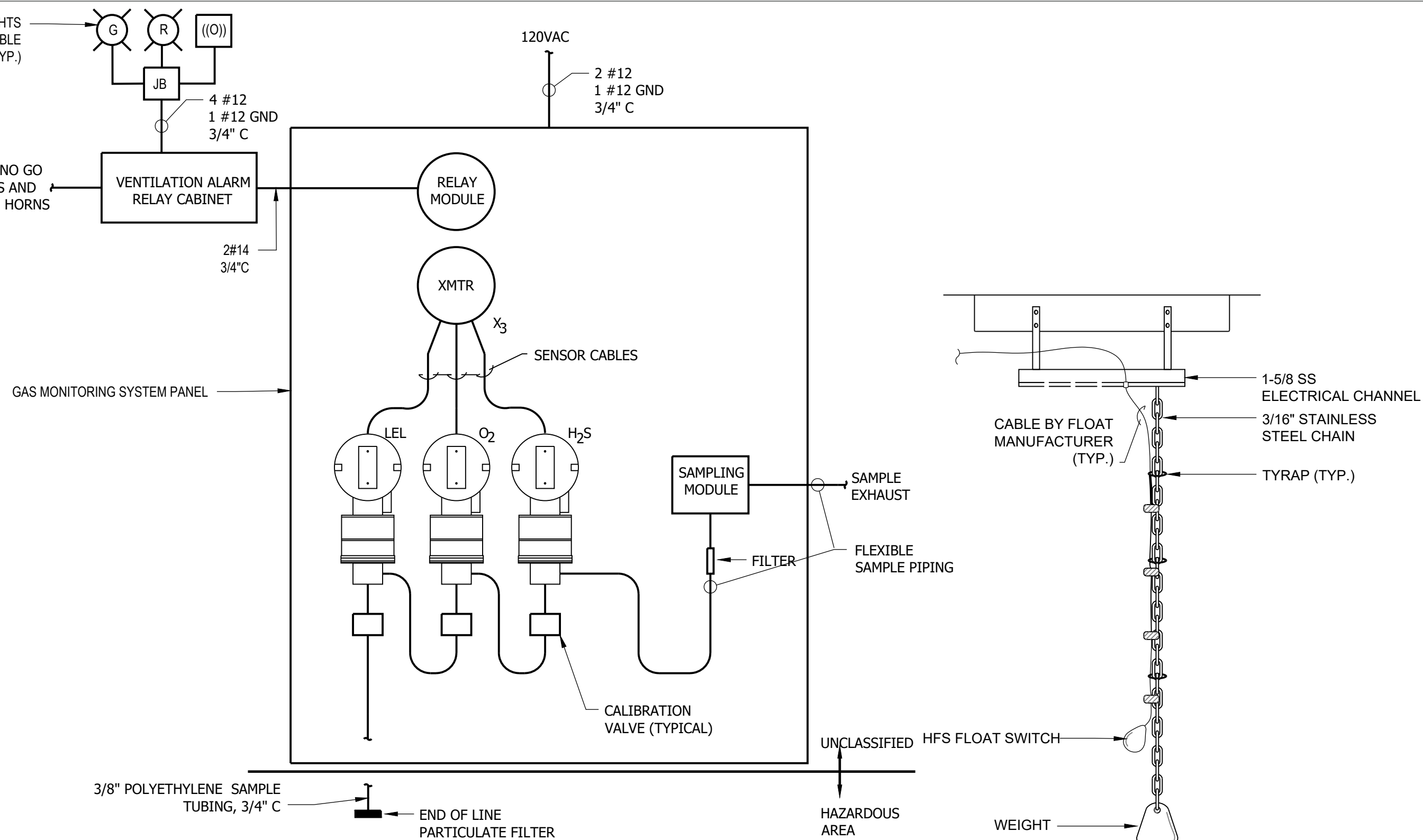
MCC GROUNDING

NO SCALE



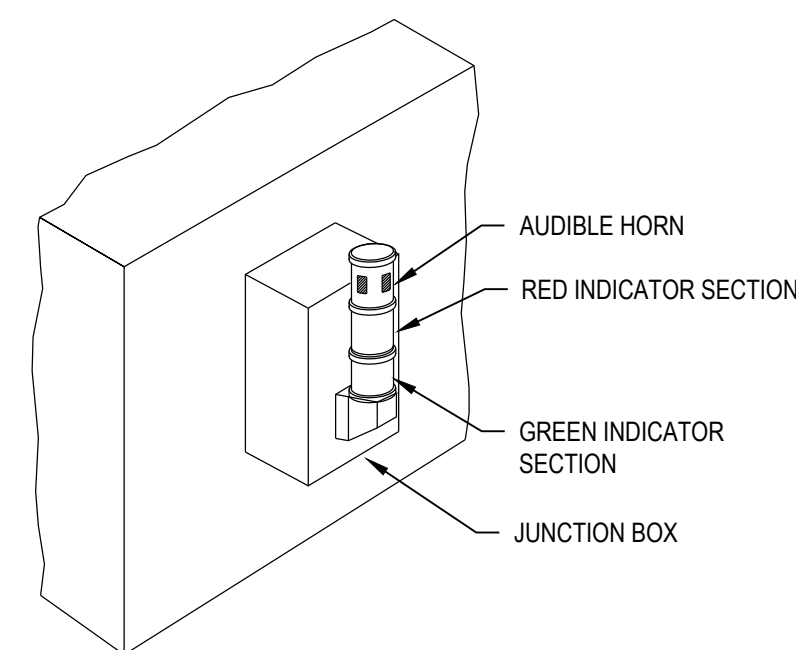
TYPICAL SLEEVE DETAIL FOR EXISTING WALL PENETRATION

NO SCALE



TYPICAL HAZARDOUS GAS MONITORING SCHEMATIC DIAGRAM

NO SCALE



TYPICAL WET WELL FLOAT MOUNTING DETAIL

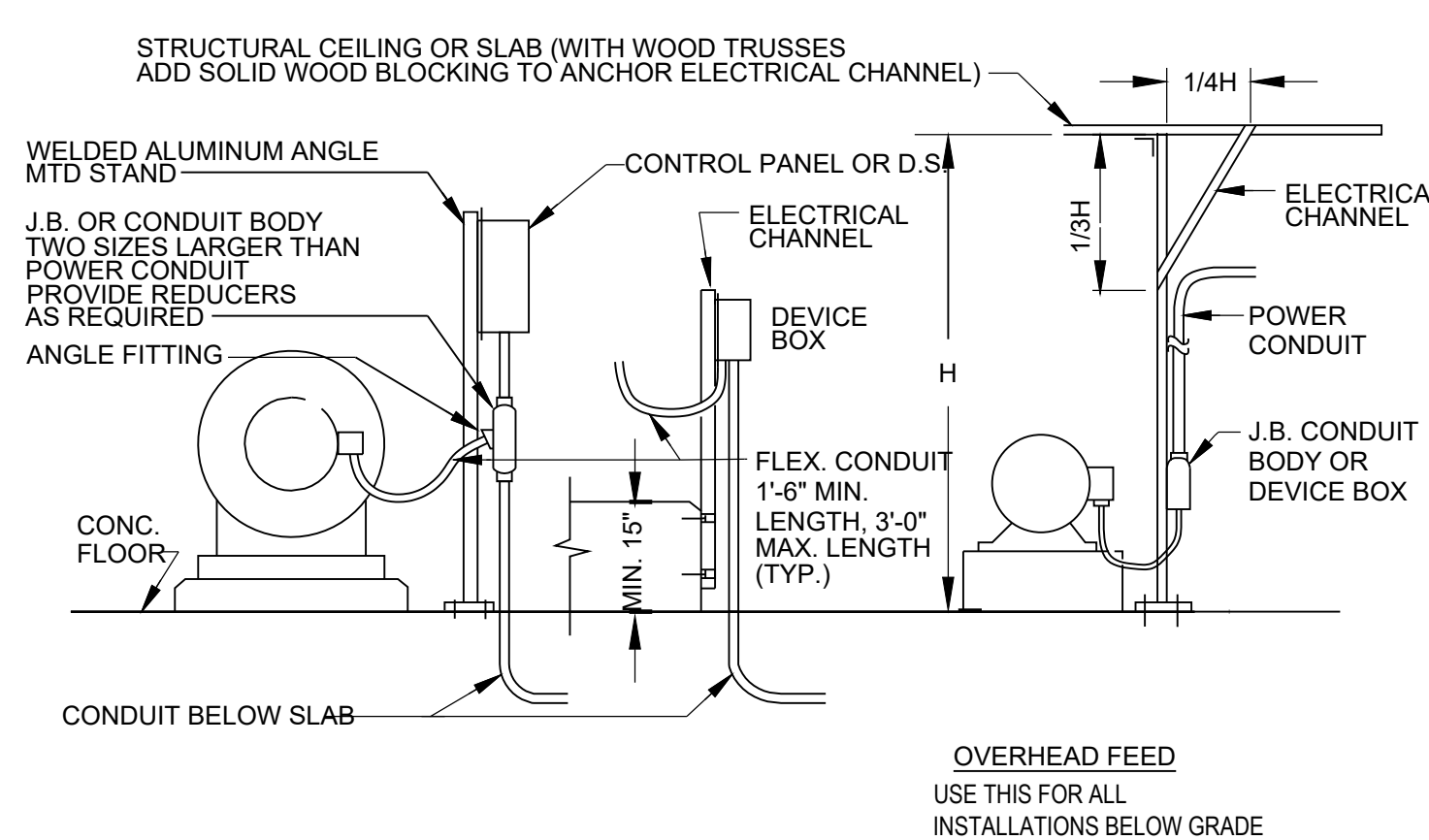
NO SCALE

NOTES:
1. PROVIDE ALL STAINLESS STEEL HARDWARE.
2. PROVIDE FLOAT CORD SLACK FOR ALL FLOATS TO REACH BOTTOM.
3. FLOAT ELEVATION TO BE DETERMINED IN FIELD.
4. FLOATS TO BE PROVIDED IN THIS CONTRACT.
5. REFER TO CONTROL DIAGRAMS FOR FLOAT QUANTITY.

NOTES:
1. UNDER ALL RED INDICATION LIGHTS, PROVIDE A YELLOW LAMACOID NAME PLATE: ALARM STATUS, RED = VENTILATION ALARM, HORN = VENTILATION ALARM.
2. VENTILATION ON AND FAILURE INDICATION LIGHTS ARE TO BE ALLEN BRADLEY TOWER STACK LIGHTS, LED MODULE, RATED FOR 120VAC. GREEN LIGHT IS TO BE STEADY. RED LIGHT IS IN STROBE WHEN IN ALARM.
3. HORNS TO BE ALLEN BRADLEY, SINGLE CIRCUIT PIEZO-STYLE MODULE WITH CONTINUOUS TONES, VOLUME 107/92 dB AT 1 METER, AND RATED FOR 120VAC.

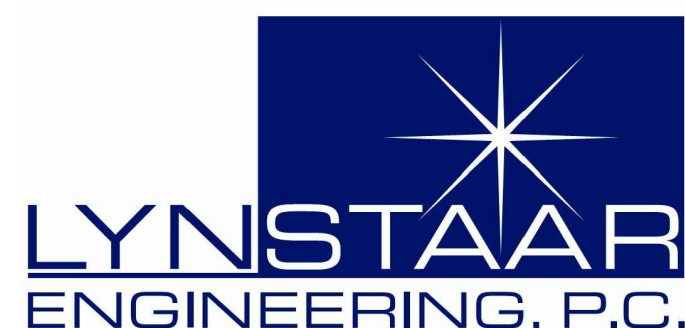
STACKABLE WALL MOUNTED GO/NO-GO TOWER LIGHT DETAIL

NO SCALE



TYPICAL ELECTRICAL FEED

NO SCALE



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

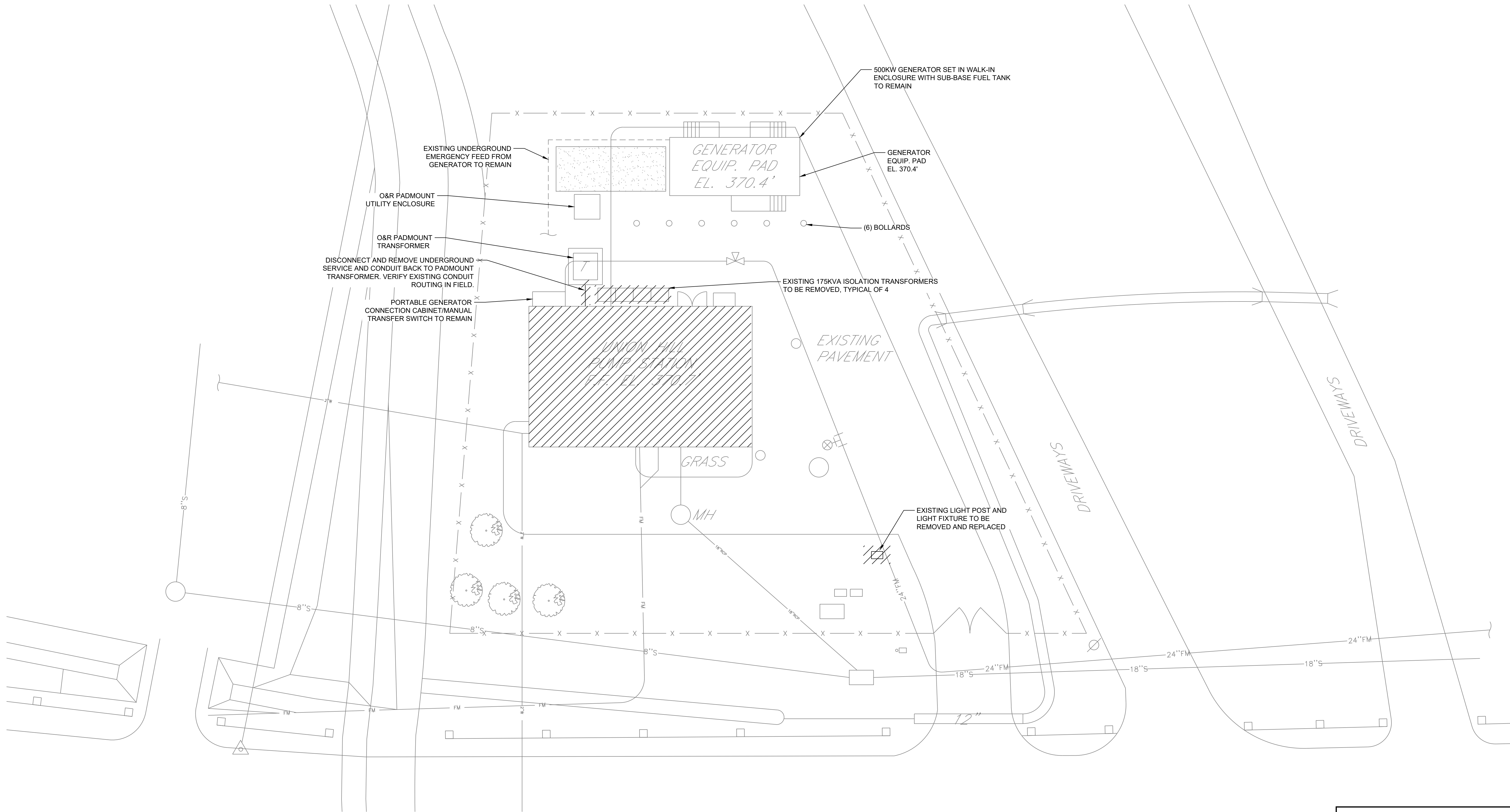
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **MISCELLANEOUS DETAILS II**

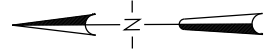
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NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE: 06/2023	EDR JOB#: 21213		
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: NO SCALE			
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWN BY: BWL			
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	CHECKED BY: GRU/JGD			
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:			
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6	06/23	FOR BID	LSE	JGD	GRL				

CONTRACT
1

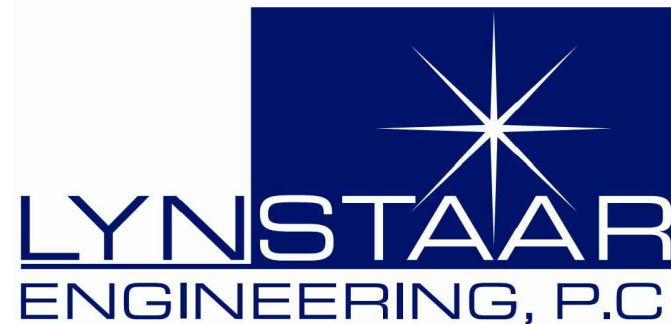
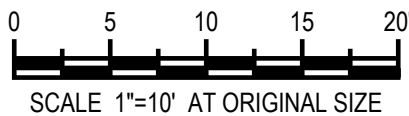
E-003



DEMOLITION SITE PLAN
SCALE 1" = 10'



CONTRACTOR TO HIRE SERVICES OF OUTSIDE AGENCY FOR MARKING OUT ALL UNDERGROUND UTILITIES. MARK OUT UNDER AND 6'-0" BOTH SIDES OF EXCAVATION AREA AND ENTIRE LENGTH. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITIES AND COST FOR THE REPAIRS.



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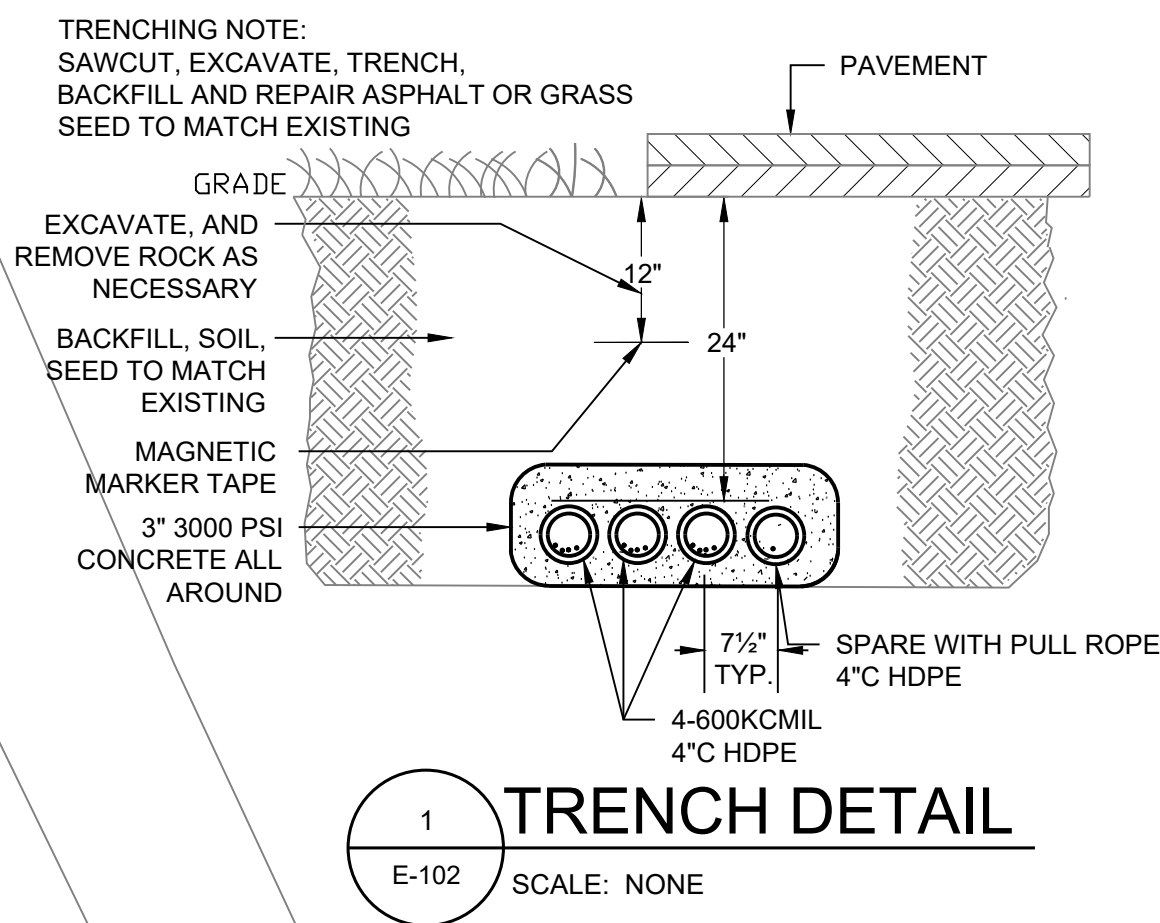
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION SITE PLAN**

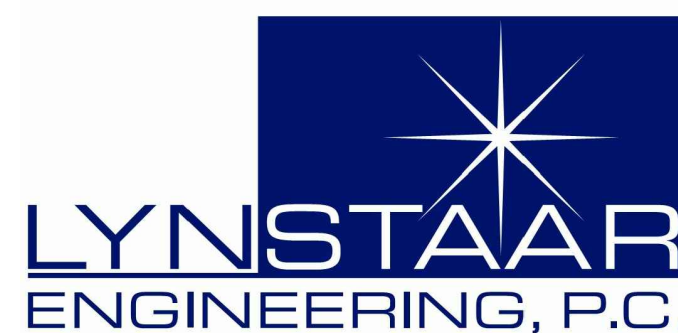
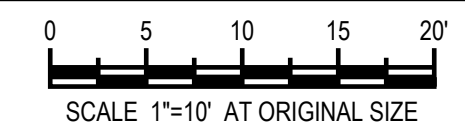
CONTRACT
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DRAWINGS ISSUED FOR / REVISIONS							EDR JOB#: 21213	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE: 06/2023		
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWN BY:	BG	
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	CHECKED BY:	GRL/JGD	
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5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL			
6	06/23	FOR BID	LSE	JGD	GRL		E-101	

E-101



CONTRACTOR TO HIRE SERVICES OF OUTSIDE AGENCY FOR MARKING OUT ALL UNDERGROUND UTILITIES. MARK OUT UNDER AND 6'-0" BOTH SIDES OF EXCAVATION AREA AND ENTIRE LENGTH. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITIES AND COST FOR THE REPAIRS.

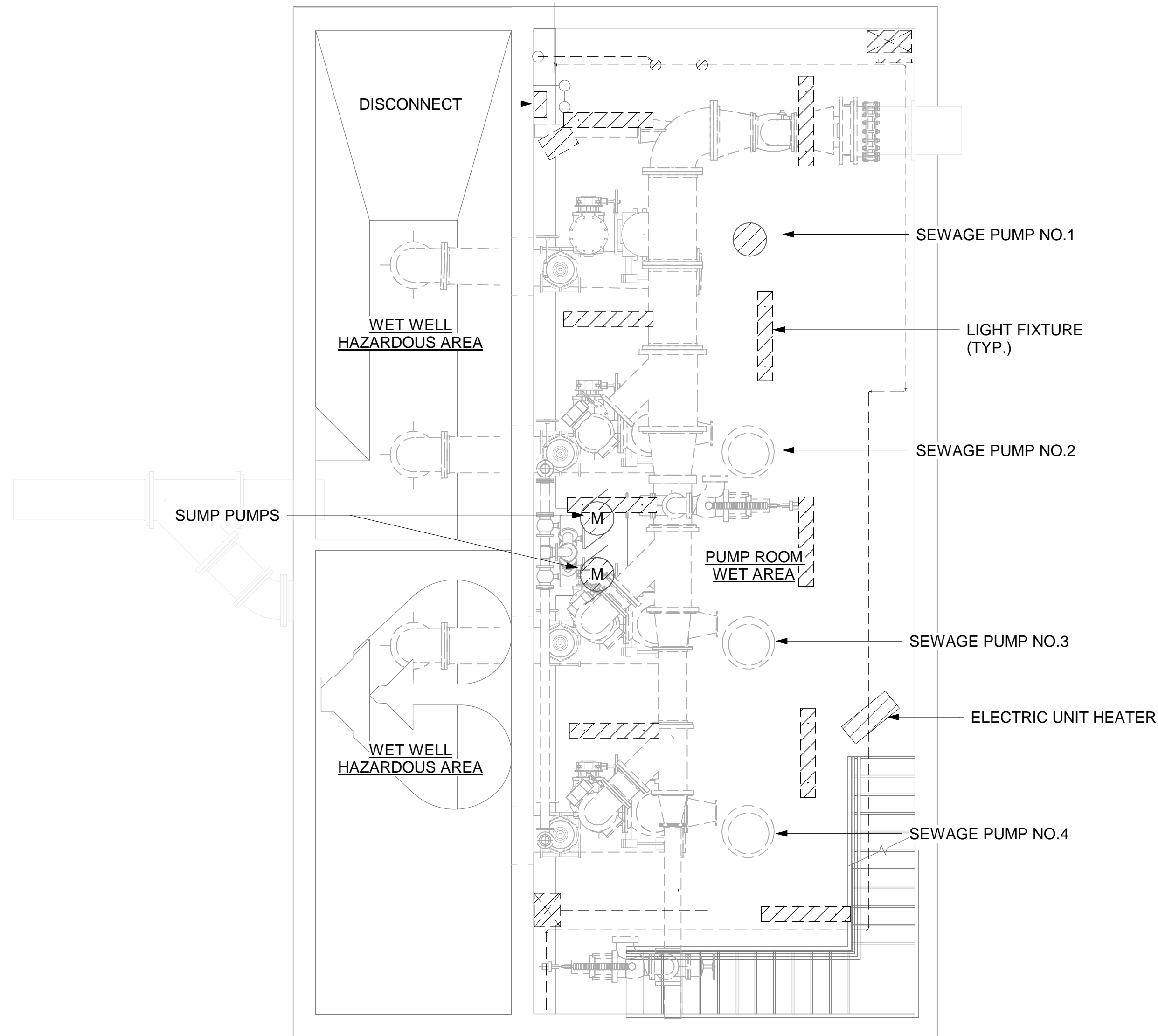


PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

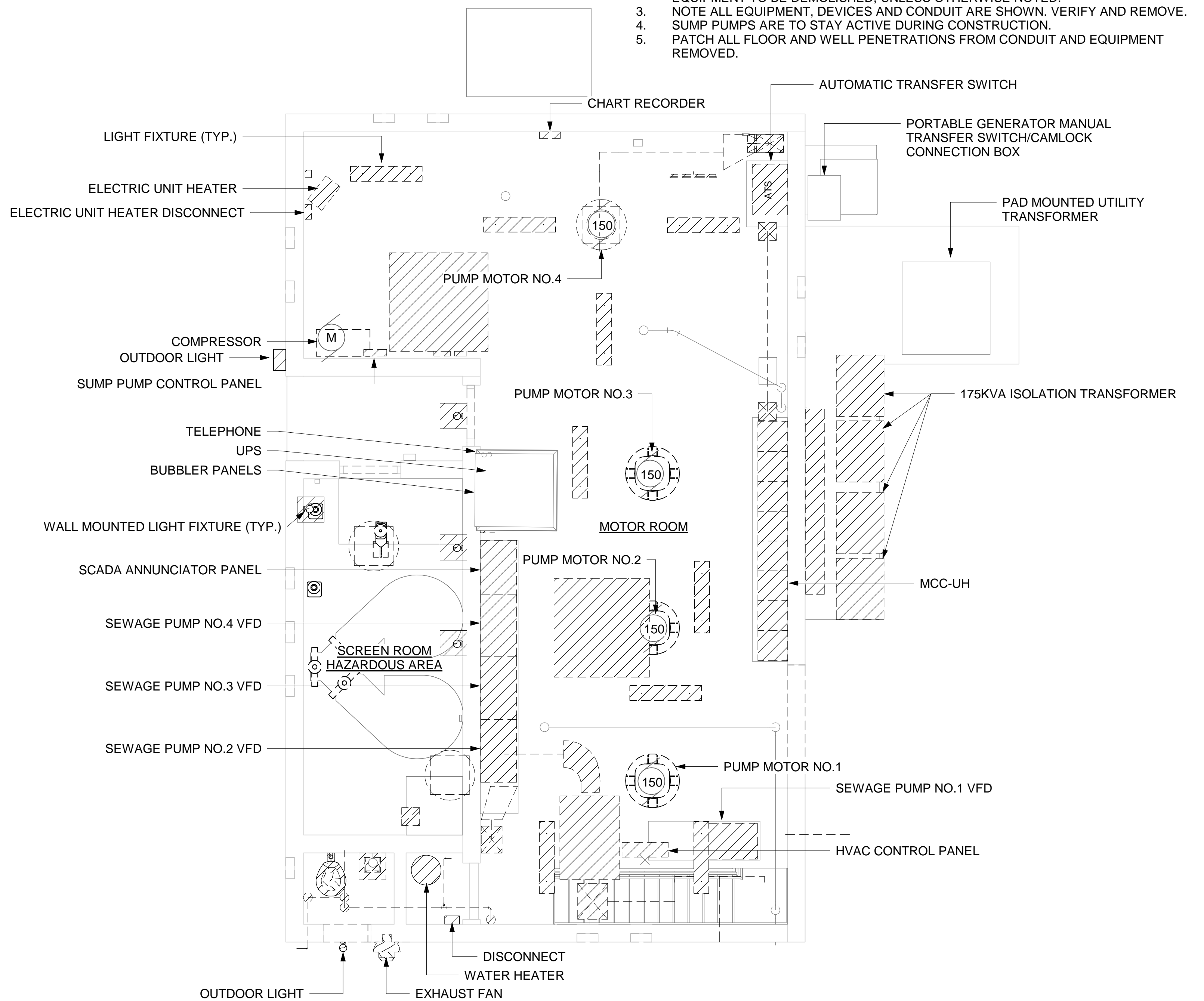
DRAWING TITLE:

UNION HILL PUMP STATION SITE PLAN

DRAWINGS ISSUED FOR / REVISIONS						EDR JOB#: 21213	
NO.	DATE	ISSUED FOR / REVISION	LSE	JGD	CHK	APP	DATE: 06/2023
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWN BY: BL
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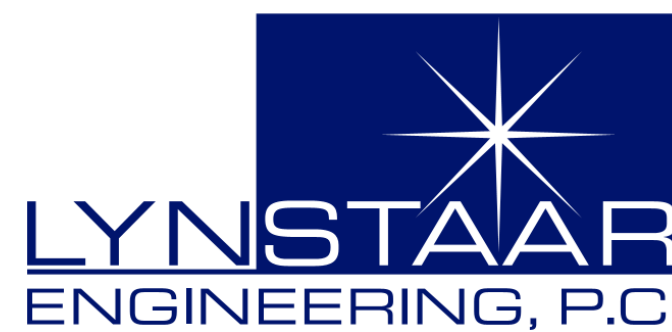


1 LOWER FLOOR - DEMOLITION PLAN
1/4" = 1'-0"



2 GROUND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
6	06/23	FOR BID	LSE	JGD	GRL

CONTRACT
1

CONTRACT #RFB-RC-SWR-2022-06
EDR JOB #: **21213**
DATE: **06/2023**

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

DRAWN BY: **BWL**

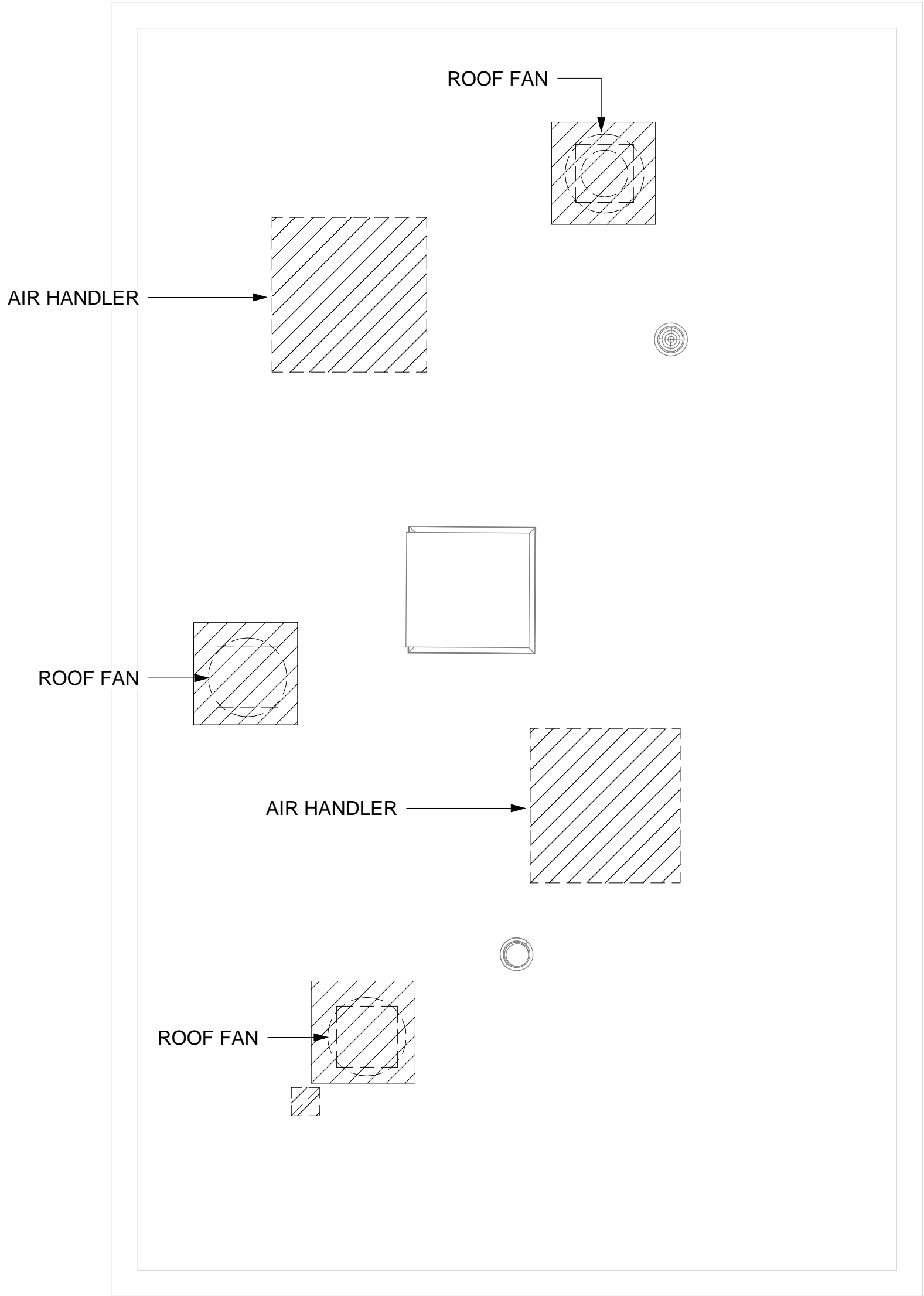
CHECKED BY: **GRL/JGD**

DRAWING NUMBER:

E-103



- NOTES:
1. ALL CONDUIT AND WIRE, RELATED TO ALL LIGHTING, ELECTRICAL EQUIPMENT, INSTRUMENTATION, MECHANICAL, HV AND PLUMBING EQUIPMENT TO BE DEMOLISHED BACK TO SOURCE, (PANELBOARDS, MCC, CONTROL PANEL, ETC.) UNLESS OTHERWISE NOTED.
 2. ALL PANELBOARDS, STARTERS, DISCONNECT SWITCHES, LIGHTING FIXTURES, RECEPTACLES, PULL BOXES, JUNCTION BOXES, AND ALL OTHER ELECTRICAL EQUIPMENT TO BE DEMOLISHED, UNLESS OTHERWISE NOTED.
 3. NOTE ALL EQUIPMENT, DEVICES AND CONDUIT ARE SHOWN. VERIFY AND REMOVE.
 4. SUMP PUMPS ARE TO STAY ACTIVE DURING CONSTRUCTION.
 5. PATCH ALL FLOOR AND WELL PENETRATIONS FROM CONDUIT AND EQUIPMENT REMOVED.



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



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AVE PUMP STATION UPGRADE**

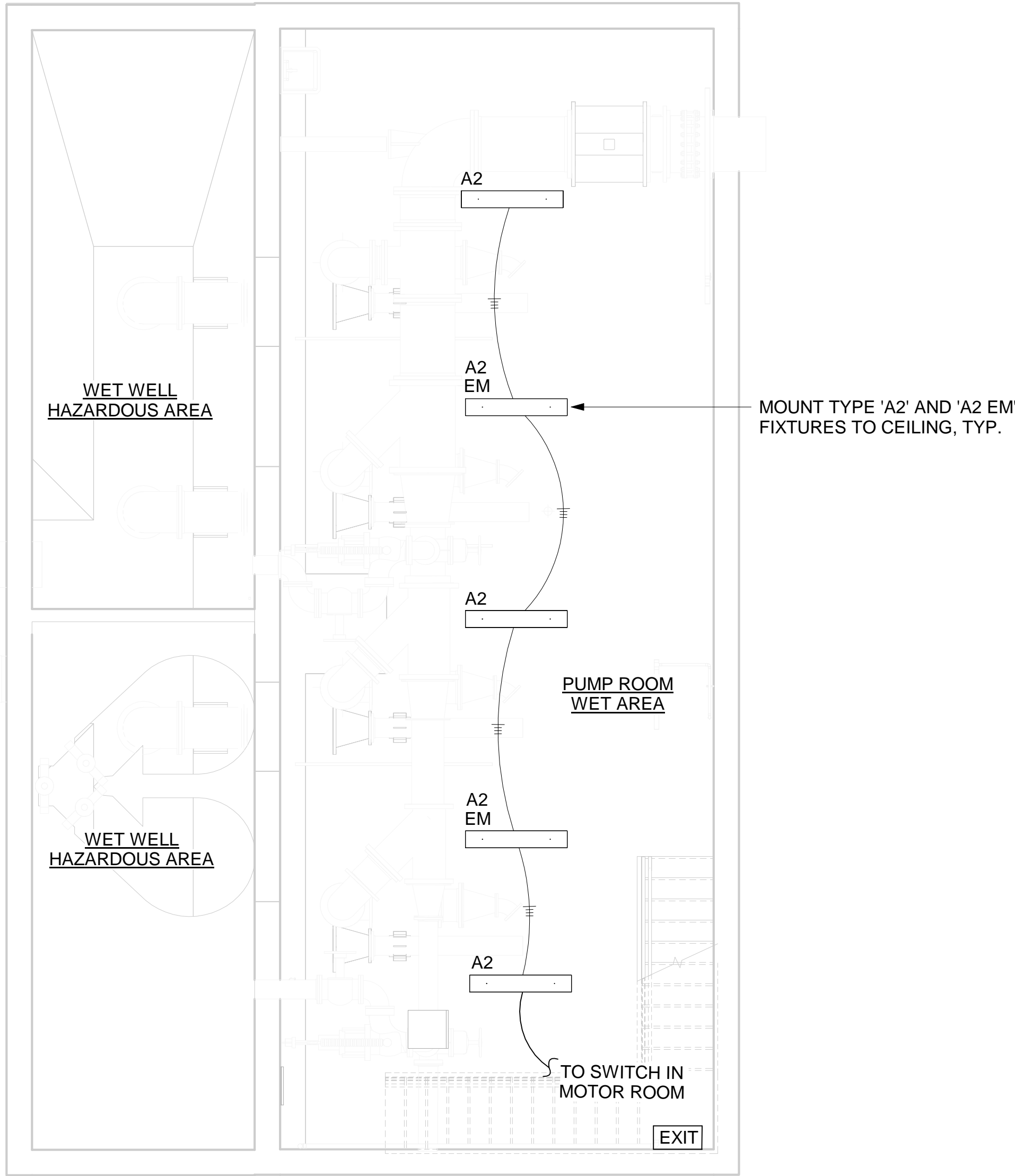
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

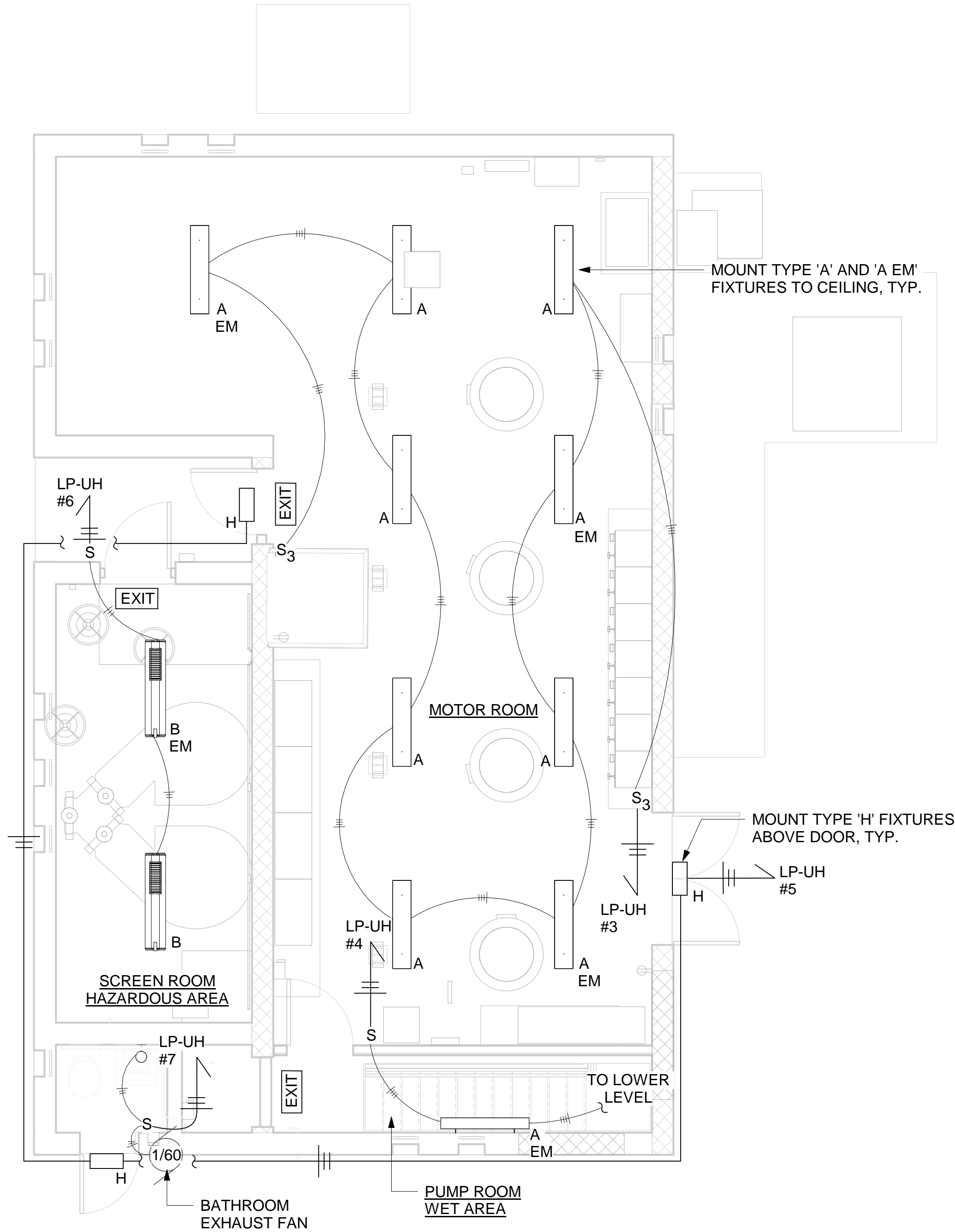
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1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DATE: 06/2023	
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3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	DRAWN BY: BG	
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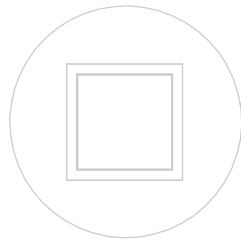
CONTRACT
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① LOWER FLOOR - LIGHTING PLAN
1/4" = 1'-0"



② GROUND FLOOR - LIGHTING PLAN
1/4" = 1'-0"



1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

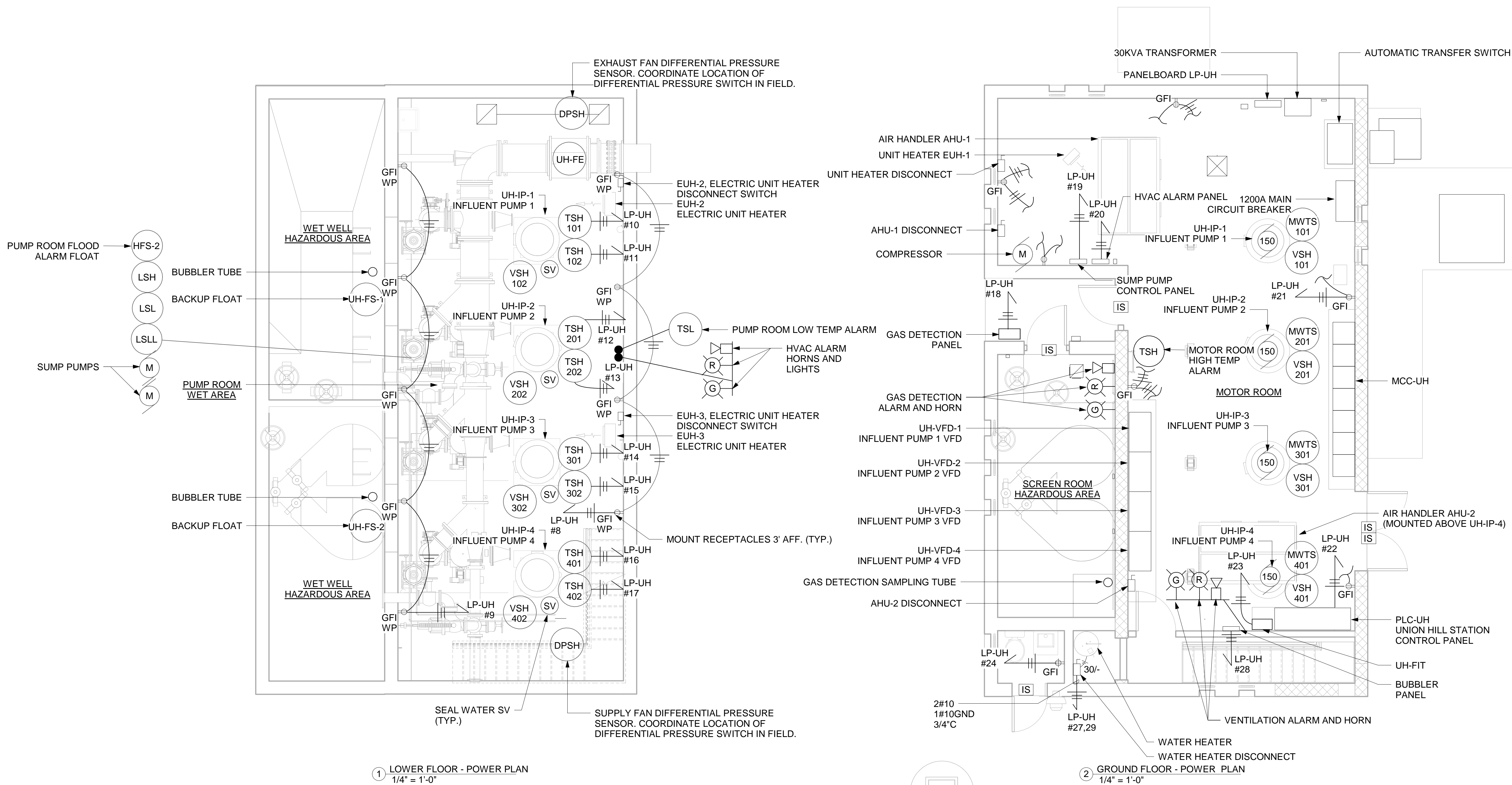
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION LOWER AND GROUND FLOOR LIGHTING PLANS**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT #RFB-RC-SWR-2022-06		
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	EDR JOB #: 21213		
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DATE: 06/2023		
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: 1/4" = 1'-0"		
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6	06/23	FOR BID	LSE	JGD	GRL	E-105		

CONTRACT
1

NOTE:
1. SCADA WILL BE INTEGRATED INTO STATION CONTROL PANEL.



1/4"=1'-0" 0 4 8 FT.



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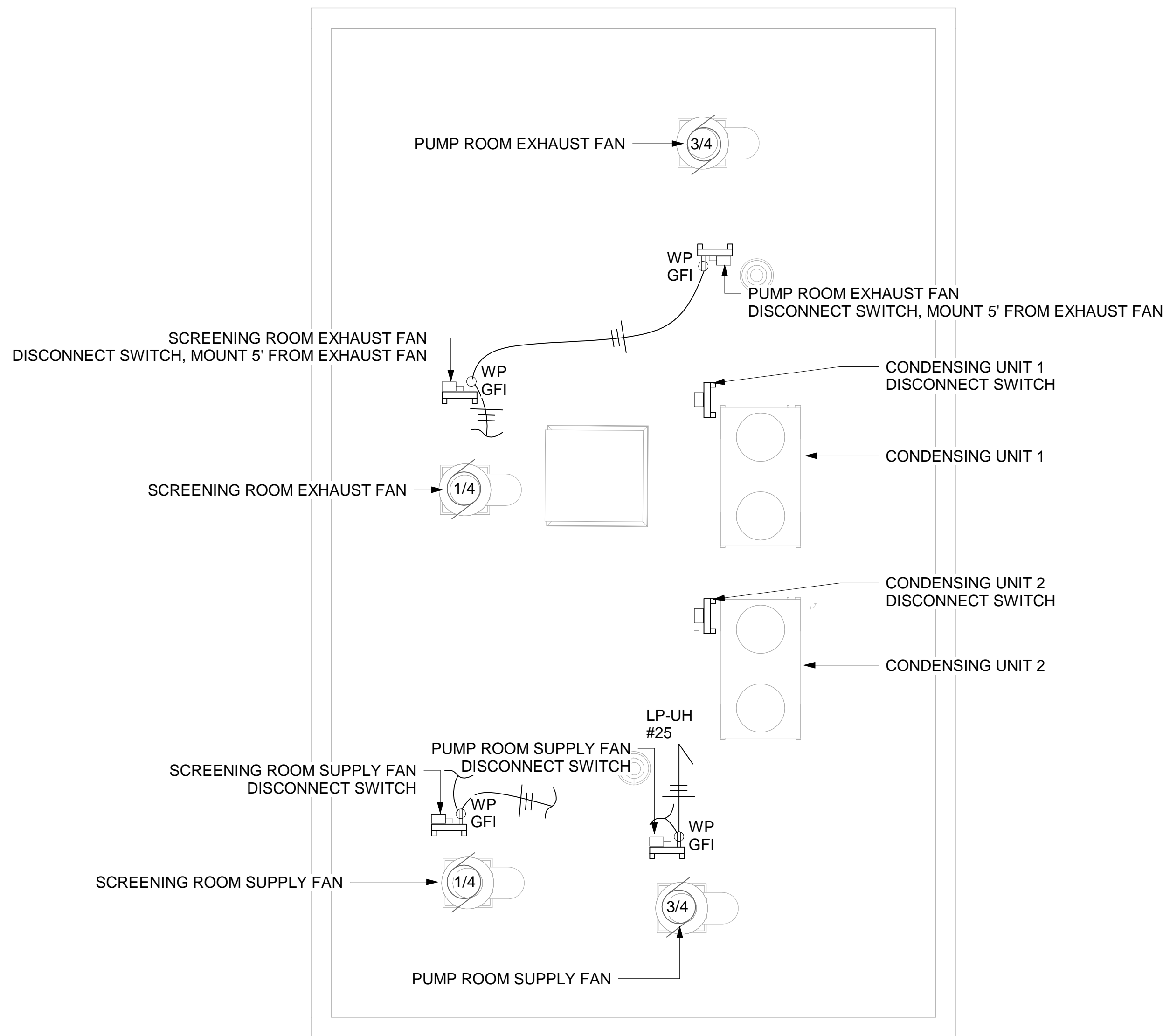
PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION LOWER AND GROUND FLOOR POWER PLANS**

DRAWINGS ISSUED FOR / REVISIONS						
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: 1/4" = 1'-0"
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4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	CHECKED BY: GRL/JGD
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:
6	06/23	FOR BID	LSE	JGD	GRL	E-106

CONTRACT
1



① ROOF - POWER PLAN
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION ROOF POWER PLAN**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL
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5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
6	06/23	FOR BID	LSE	JGD	GRL

CONTRACT #RFB-RC-SWR-2022-06
EDR JOB #: 21213

DATE: 06/2023

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

DRAWN BY: BWL

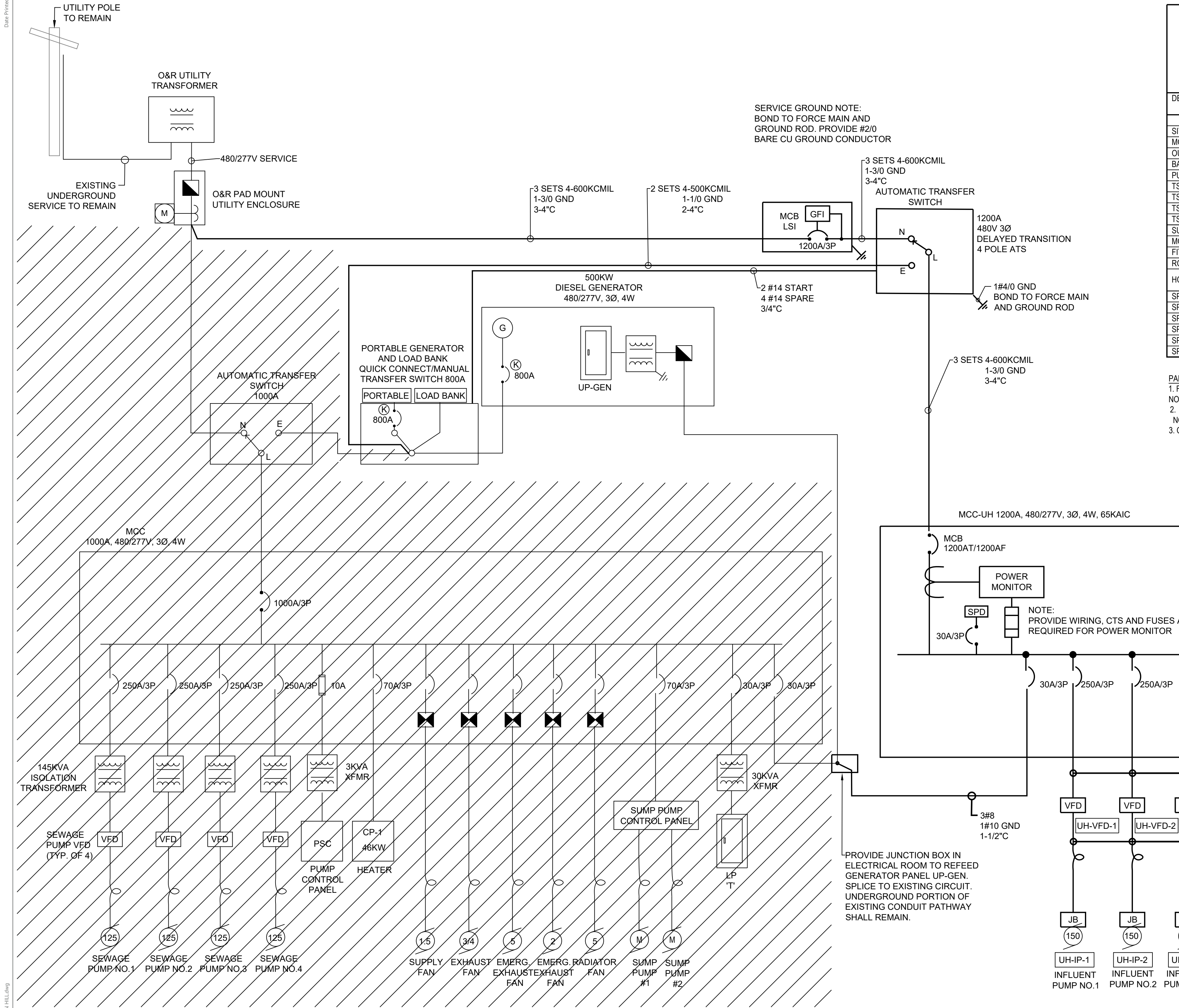
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DRAWING NUMBER:

E-107

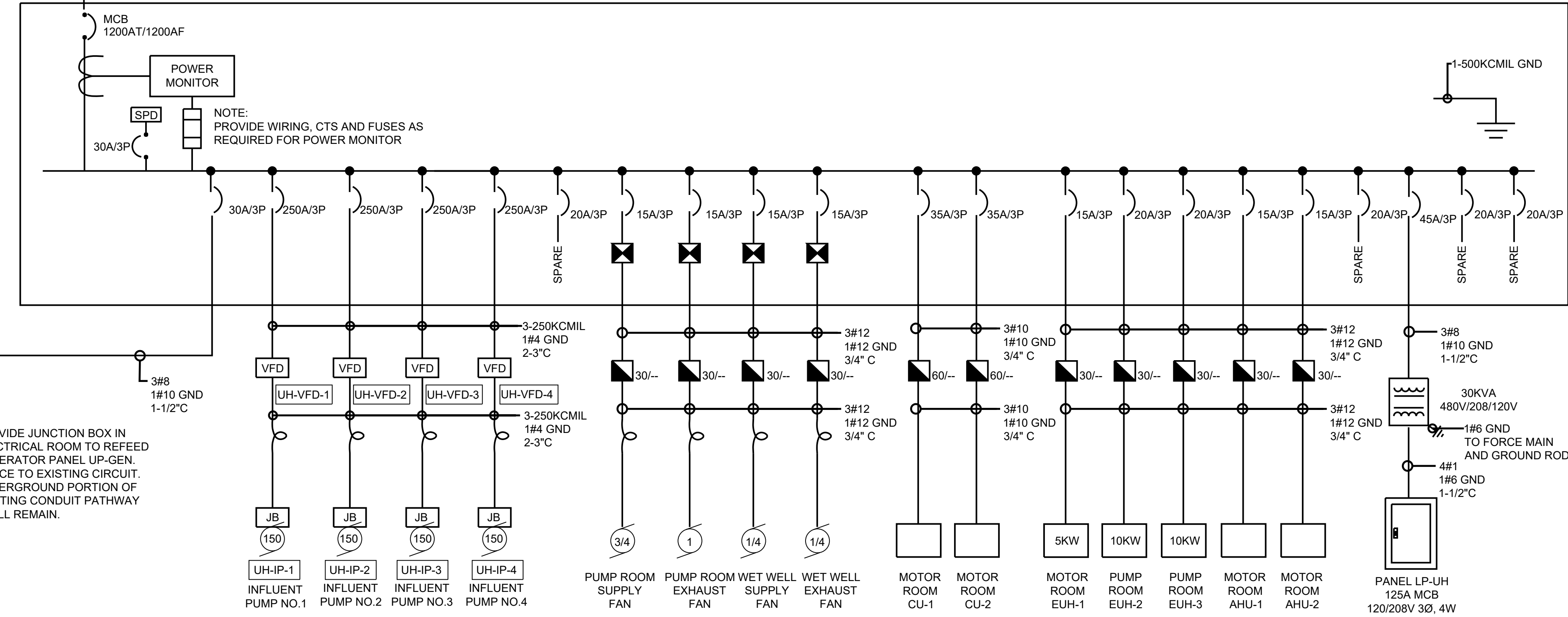
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Date Printed: 6/15/2023 10:08:14 AM
 P:\gdp\2023\Union Hill and Tallman\DWG\2316 E108 SINGLE LINE DIAGRAM - UNION HILL.dwg



PANELBOARD LP-UH SCHEDULE											
MAIN BUS RATINGS: 200 AMP, 120/208 VOLTS, 3 PHASE, 4 WIRE						FED FROM: MCC-UH VIA 30KVA TRANSFORMER					
MINIMUM SHORT CIRCUIT INTERRUPTION RATING: 10,000 AIC						INCOMING FEED: 4#1					
MAIN BREAKER TRIP: 125 AMP						ENCLOSURE: NEMA 12					
ESTIMATED CONNECTED LOAD: 16.2 KW						* INDICATES GFCI CIRCUIT BREAKER					
DESCRIPTION	DIAGRAM/NOTE	LOAD KW	CB TRIP/POLE	CIR.		CIR.	CB TRIP/POLE	LOAD KW	DIAGRAM/NOTE	DESCRIPTION	
					A B C						
SITE LIGHT	-/-	0.1	20A/1P	1		2	20A/1P	--	-/-	SPARE	
MOTOR ROOM LIGHTING	-/-	0.5	20A/1P	3		4	20A/1P	0.5	-/-	PUMP ROOM LIGHTING	
OUTDOOR LIGHTING	-/-	0.1	20A/1P	5		6	20A/1P	0.1	-/-	SCREEN ROOM LIGHTING	
BATHROOM LIGHTING/FAN	-/-	0.1	20A/1P	7		8	20A/1P	0.8	-/-	PUMP ROOM RECEPTACLES	
PUMP ROOM RECEPTACLES	-/-	1.0	20A/1P	9		10	20A/1P	0.1	-/-	TSH-101	
TSH-102	-/-	0.1	20A/1P	11		12	20A/1P	0.1	-/-	TSH-201	
TSH-202	-/-	0.1	20A/1P	13		14	20A/1P	0.1	-/-	TSH-301	
TSH-302	-/-	0.1	20A/1P	15		16	20A/1P	0.1	-/-	TSH-401	
TSH-402	-/-	0.1	20A/1P	17		18	20A/1P	0.1	-/-	GAS DETECTION PANEL	
SUMP PUMP CONTROL PANEL	-/-	1.0	20A/1P	19		20	20A/1P	0.1	-/-	HVAC CONTROL PANEL	
MOTOR ROOM RECEPTACLES	-/-	1.0	20A/1P	21		22	20A/1P	0.2	-/-	PLC-UH	
FIT	-/-	0.1	20A/1P	23		24	20A/1P	0.2	-/-	BATHROOM RECEPTACLE	
ROOF RECEPTACLES	-/-	0.8	20A/1P	25		26	20A/1P	0.1	-/-	SITE LIGHT	
HOT WATER HEATER	-/-	5.0	30A/2P	27		28	20A/1P	0.3	-/-	BUBBLER PANEL	
				29		30	20A/1P	--	-/-	SPARE	
SPARE	-/-	--	20A/1P	31		32	20A/1P	--	-/-	SPARE	
SPARE	-/-	--	20A/1P	33		34	20A/1P	--	-/-	SPARE	
SPARE	-/-	--	20A/1P	35		36	20A/1P	--	-/-	SPARE	
SPARE	-/-	--	20A/1P	37		38	20A/1P	--	-/-	SPARE	
SPARE	-/-	--	20A/1P	39		40	20A/1P	--	-/-	SPARE	
SPARE	-/-	--	20A/1P	41		42	20A/1P	--	-/-	SPARE	

PANELBOARD GENERAL NOTES:
 1. FOR THREE PHASE CIRCUITS - PROVIDE 3/4" C W/ 3#12, 1#12 GRD FOR 20 AMP CIRCUITS SERVING EQUIPMENT WITHIN 60' OF PANELBOARD. UNLESS OTHER WISE NOTED. INCREASE CONDUIT AND WIRE SIZES IN ACCORDANCE WITH SPEC. SECT. 16 THE N.E.C. FOR LONGER CIRCUITS OR CIRCUITS MORE THAN 20 AMPS.
 2. FOR SINGLE PHASE CIRCUITS - PROVIDE 3/4" C W/ 2#12, 1#12 GRD FOR 20 AMP CIRCUITS SERVING EQUIPMENT WITHIN 60' OF PANELBOARD. UNLESS OTHER WISE NOTED. INCREASE CONDUIT AND WIRE SIZE IN ACCORDANCE WITH SPEC. SECTION 16 AND THE N.E.C. FOR LONGER CIRCUITS OR CIRCUITS MORE THAN 20 AMPS.
 3. CONTRACTOR SHALL BALANCE ALL PANELBOARD LOADS ACROSS PHASES.



POWER SINGLE LINE DIAGRAM

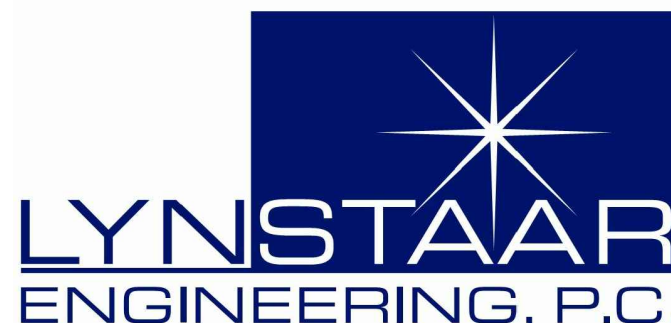
SCALE: N.T.S.

GENERAL NOTES:

- REFER TO SHEET E-001 FOR AREA CLASSIFICATIONS.
- PROVIDE SEAL OFFS FOR ANY CONDUIT RUN THAT PASSES OR ENTERS A CLASS 1, DIV. 1 AND DIV. 2 GROUP D CLASSIFIED AREA.
- PROVIDE EQUIPMENT ENCLOSURE RATINGS SUITABLE FOR THEIR CLASSIFICATION.
- ALL FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
- ALL FLEXIBLE CONNECTIONS TO EQUIPMENT IN CLASS 1 DIV. 1 AND DIV. 2 AREAS SHALL BE RATED FOR DIV. 1 LOCATIONS.

DEMOLITION NOTES:

- ALL CONDUIT AND WIRE, RELATED TO ALL LIGHTING, ELECTRICAL EQUIPMENT, INSTRUMENTATION, MECHANICAL, HVAC, AND PLUMBING EQUIPMENT ASSOCIATED WITH EXISTING PUMP STATION SHALL BE DEMOLISHED BACK TO SOURCE UNLESS OTHERWISE NOTED.
- ALL PANELBOARDS, STARTERS, VFDs, DISCONNECT SWITCHES, LIGHTING FIXTURES, RECEPTACLES, PULLBOXES, JUNCTION BOXES, AND ALL OTHER ELECTRICAL EQUIPMENT TO BE DEMOLISHED UNLESS OTHERWISE NOTED.
- NOT ALL EQUIPMENT, DEVICES, CONDUIT AND PULLBOXES ARE SHOWN ON SINGLE LINE. VERIFY AND REMOVE.



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 Syracuse, New York 13202
 P. 315.471.0688

PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE:

UNION HILL PUMP STATION POWER SINGLE LINE DIAGRAM

DRAWINGS ISSUED FOR / REVISIONS

NO	DATE	ISSUED FOR / REVISION	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
6	06/23	FOR BID	LSE	JGD	GRL

CONTRACT
1

CONTRACT #RFB-RC-SWR-2022-06

EDR JOB#: 21213

DATE: 06/2023

SCALE: **NO SCALE**

DRAWN BY: **BL**

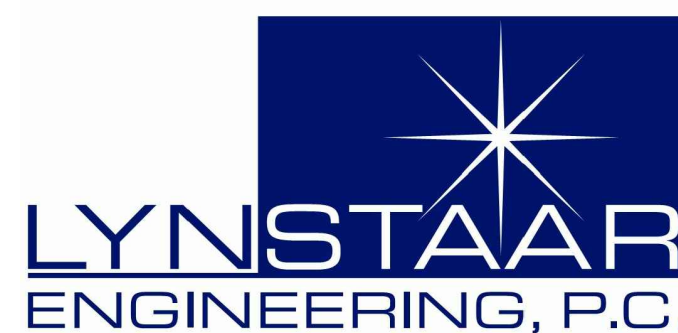
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DRAWING NUMBER:

E-108



NOTES:
1. PROVIDE SEAL-OFFS AS REQUIRED AT HAZARDOUS AREA BOUNDARIES

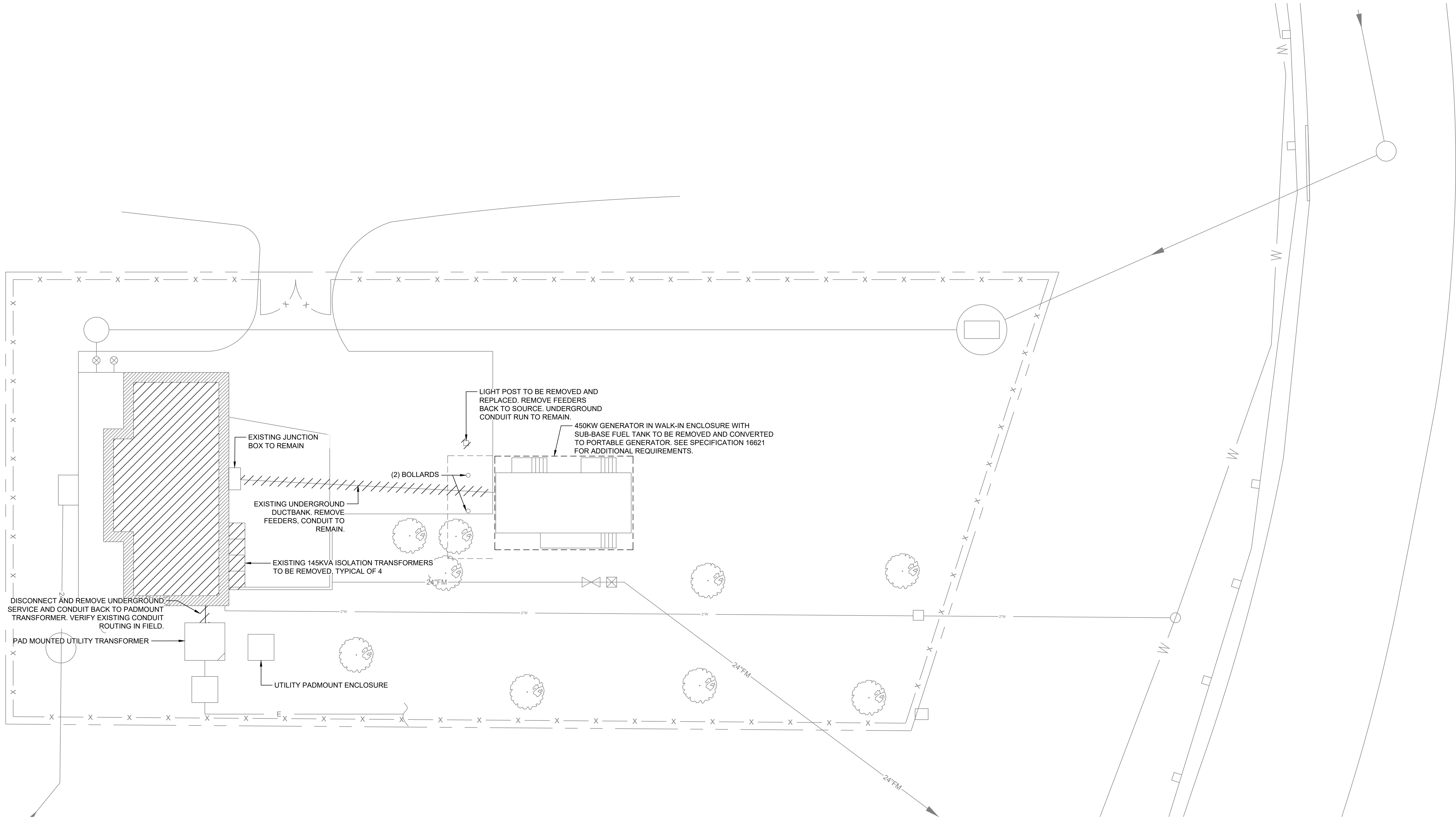


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UNION HILL PUMP SUHTION CONTROL DIAGRAM

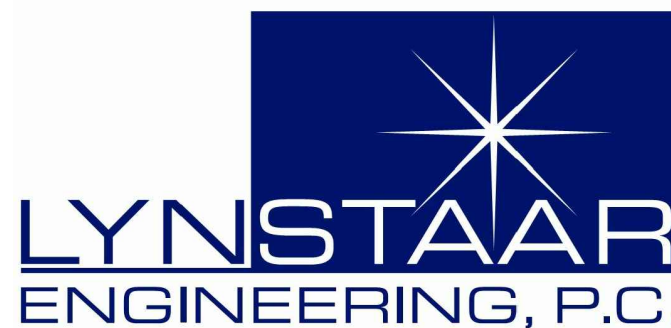
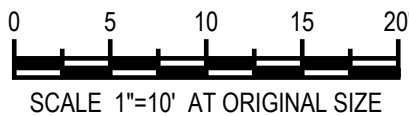
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWN BY:	BL
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6	06/23	FOR BID	LSE	JGD	GRL		

Date Printed: 6/11/2023 10:14:56 AM
Py:\dwg\2023\Union Hill and Tallman\DWG\2315.DWG DEMOLITION SITE PLAN.dwg



DEMOLITION SITE PLAN
SCALE 1" = 10'

CONTRACTOR TO HIRE SERVICES OF OUTSIDE AGENCY FOR MARKING OUT ALL UNDERGROUND UTILITIES. MARK OUT UNDER AND 6'-0" BOTH SIDES OF EXCAVATION AREA AND ENTIRE LENGTH. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITIES AND COST FOR THE REPAIRS.



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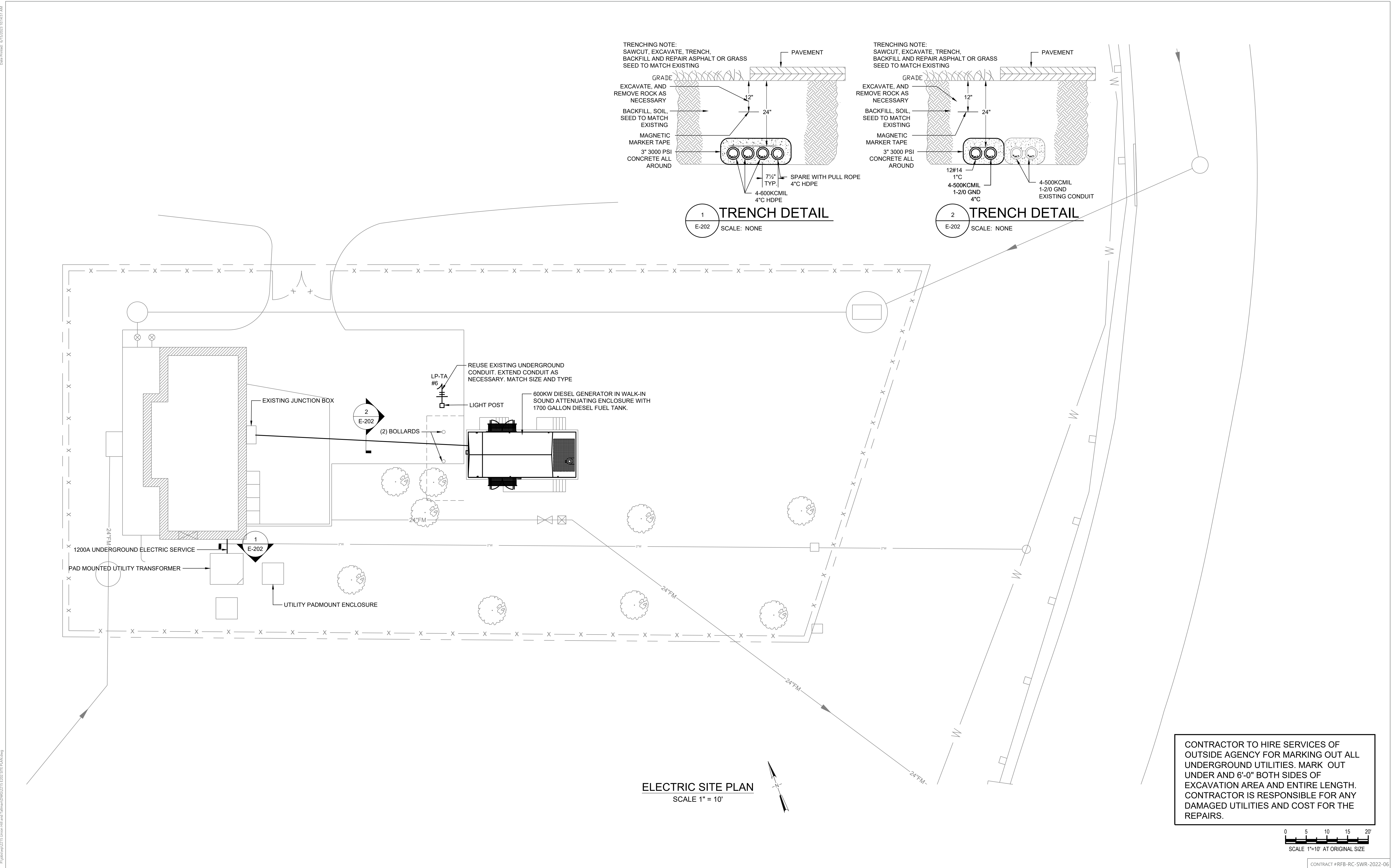
PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **TALLMAN PUMP STATION DEMOLITION SITE PLAN**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE	EDR JOB#	21213
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: AS SHOWN		
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWN BY: BL		
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	CHECKED BY: GRL/JGD		
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:		
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6	06/23	FOR BID	LSE	JGD	GRL			

CONTRACT
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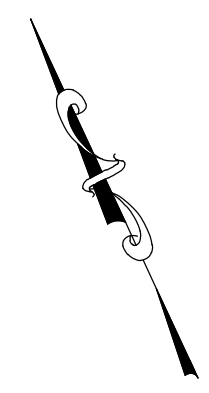
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PROJECT TITLE: **UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE**

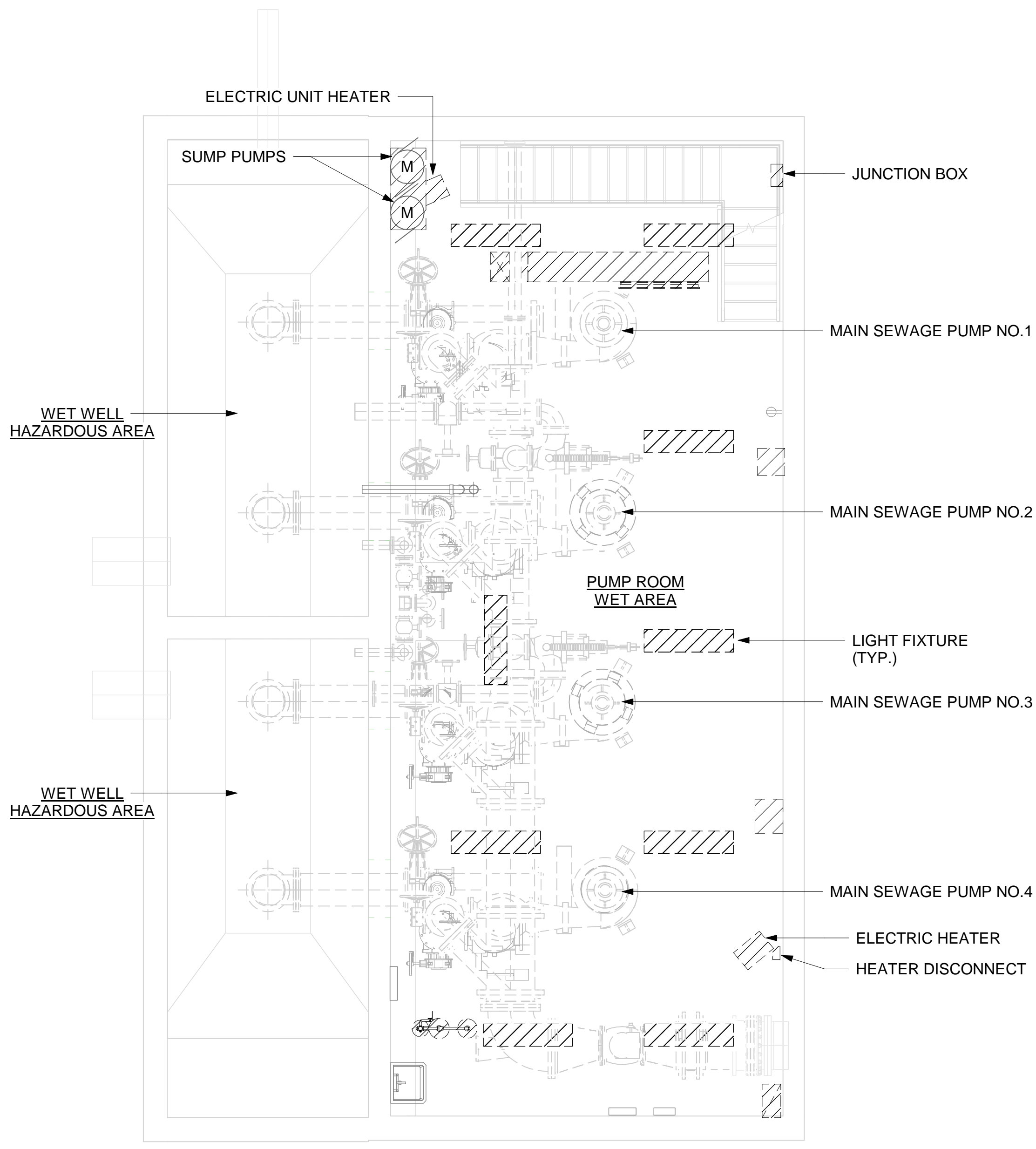
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **TALLMAN PUMP STATION SITE PLAN**

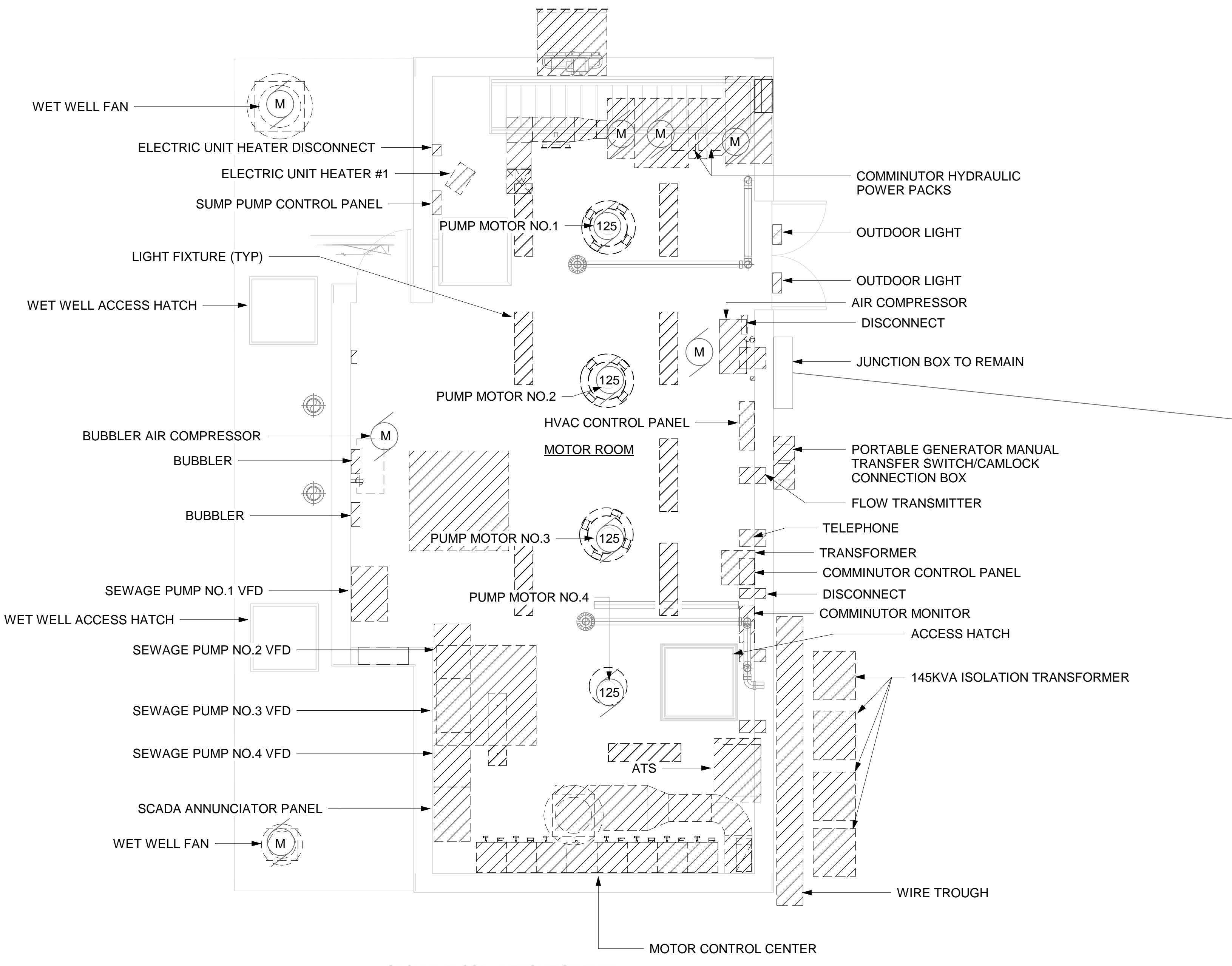
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWN BY: BG		
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL		CHECKED BY: GRL/JGD		
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6	06/23	FOR BID	LSE	JGD	GRL				



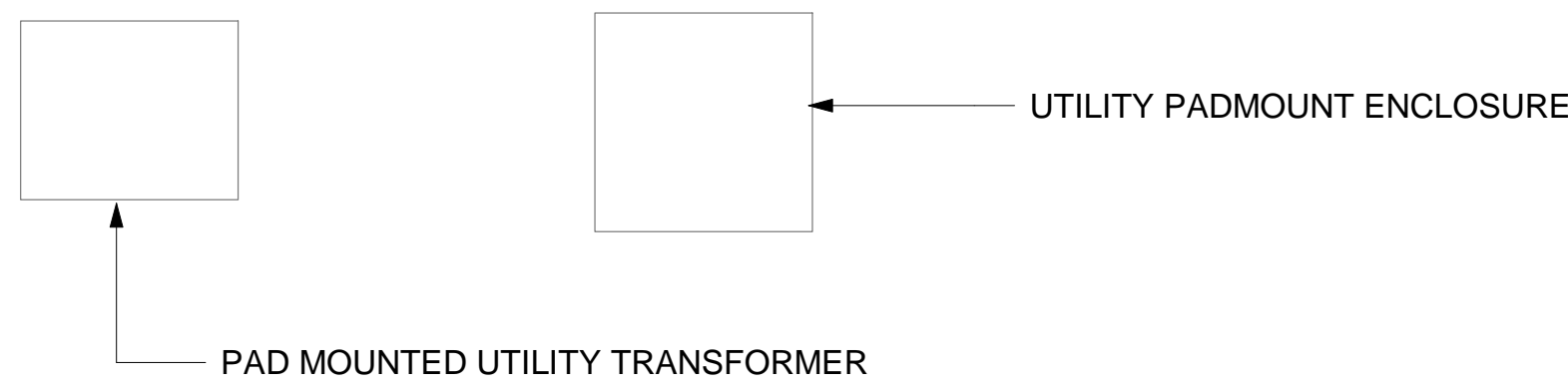
NOTE:
1. SCADA WILL BE INTEGRATED INTO STATION CONTROL PANEL.



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



② GROUND FLOOR - DEMOLITION PLAN
1/4" = 1'-0"



1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

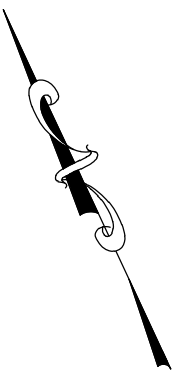
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DRAWINGS ISSUED FOR / REVISIONS

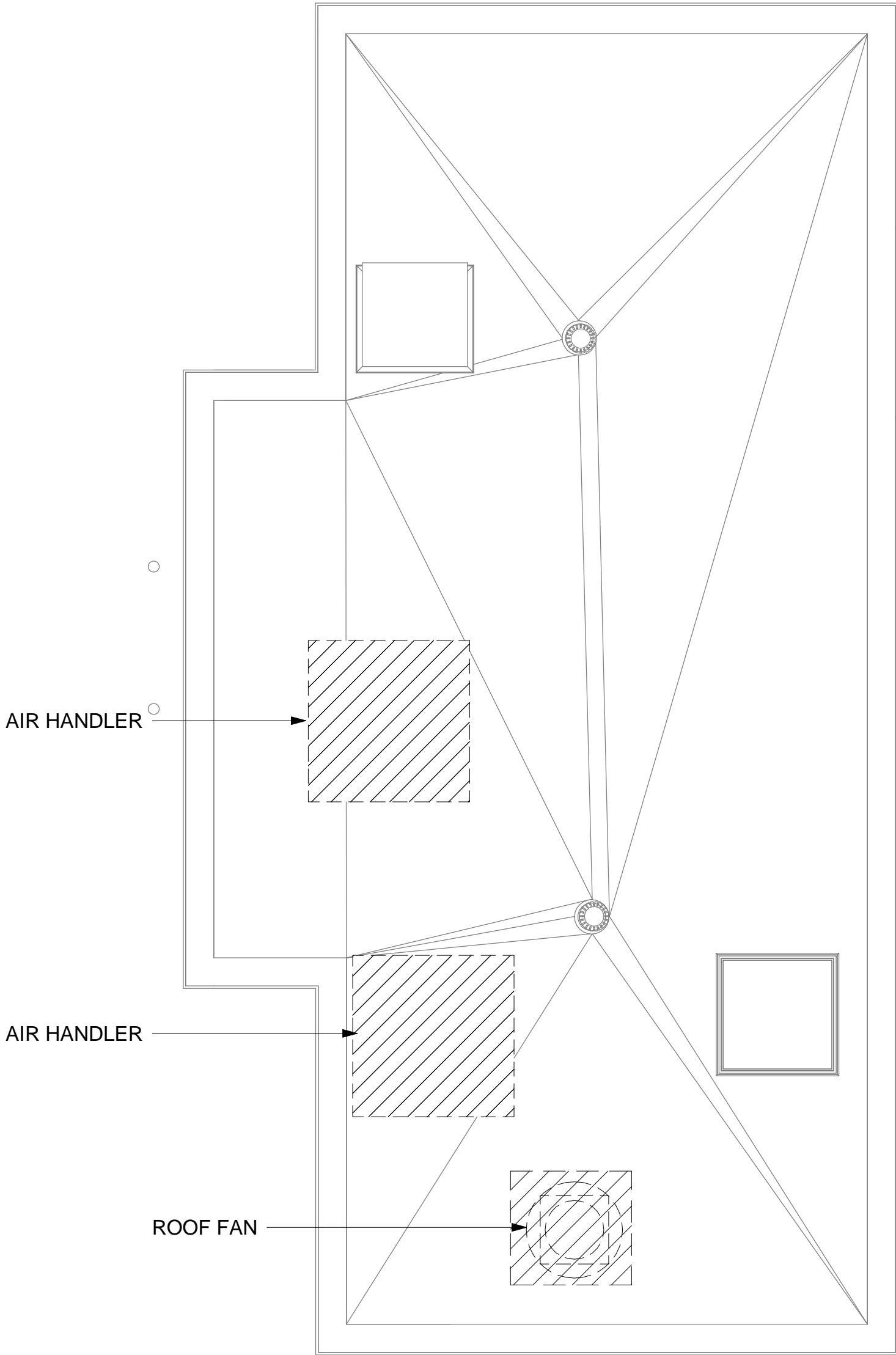
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
6	06/23	FOR BID	LSE	JGD	GRL

CONTRACT
1

CONTRACT #RFB-RC-SWR-2022-06					
EDR JOB #: 21213					
DATE: 06/2023					
SCALE: 1/4" = 1'-0"					
DRAWN BY: BWL					
CHECKED BY: GRL/JGD					
DRAWING NUMBER: E-203					



NOTE:
1. SCADA WILL BE INTEGRATED INTO STATION CONTROL PANEL.

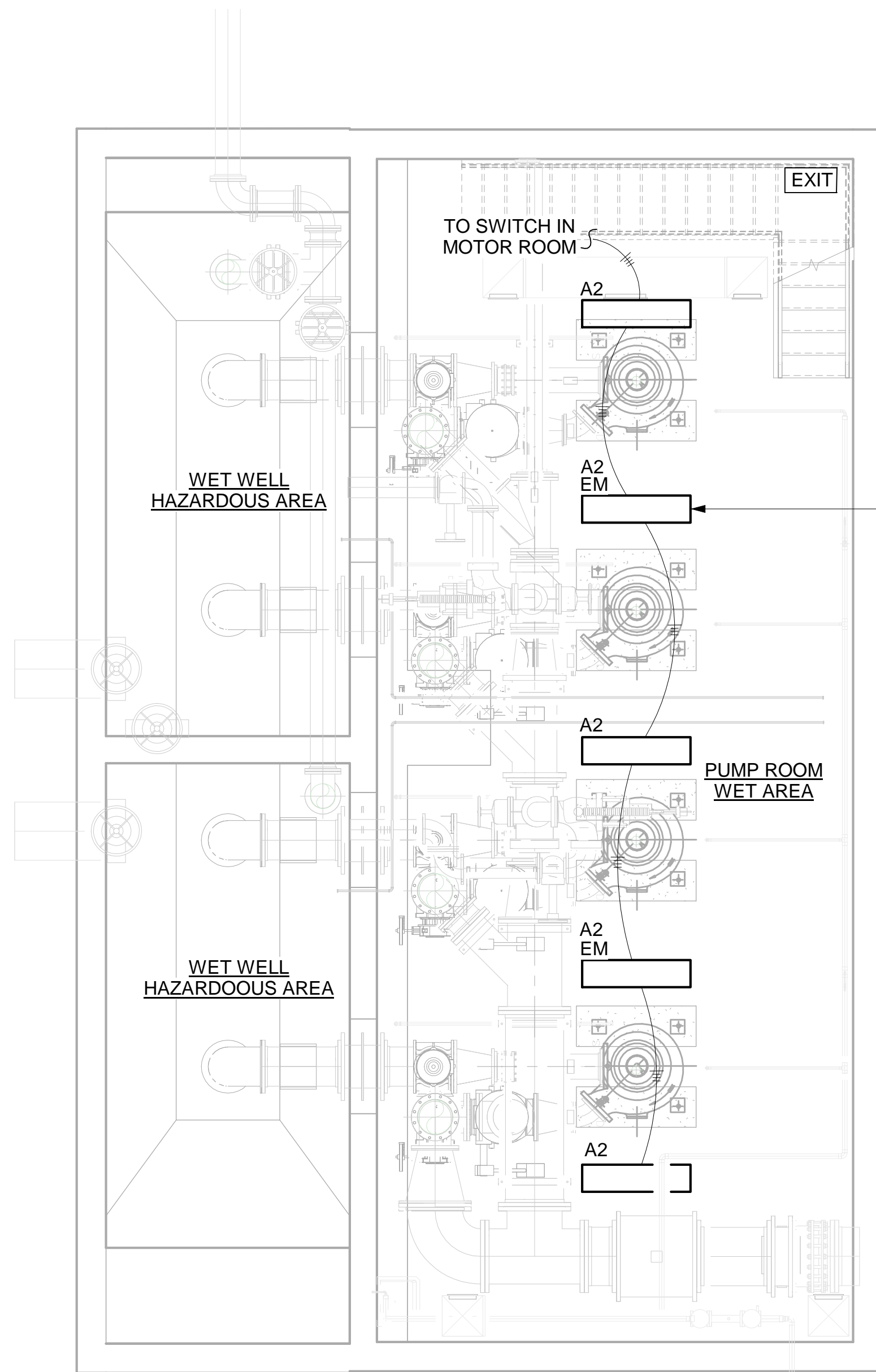
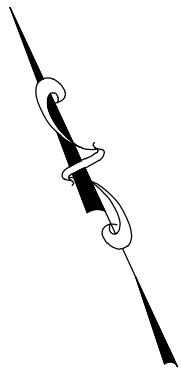


1 ROOF - DEMOLITION PLAN
1/4" = 1'-0"

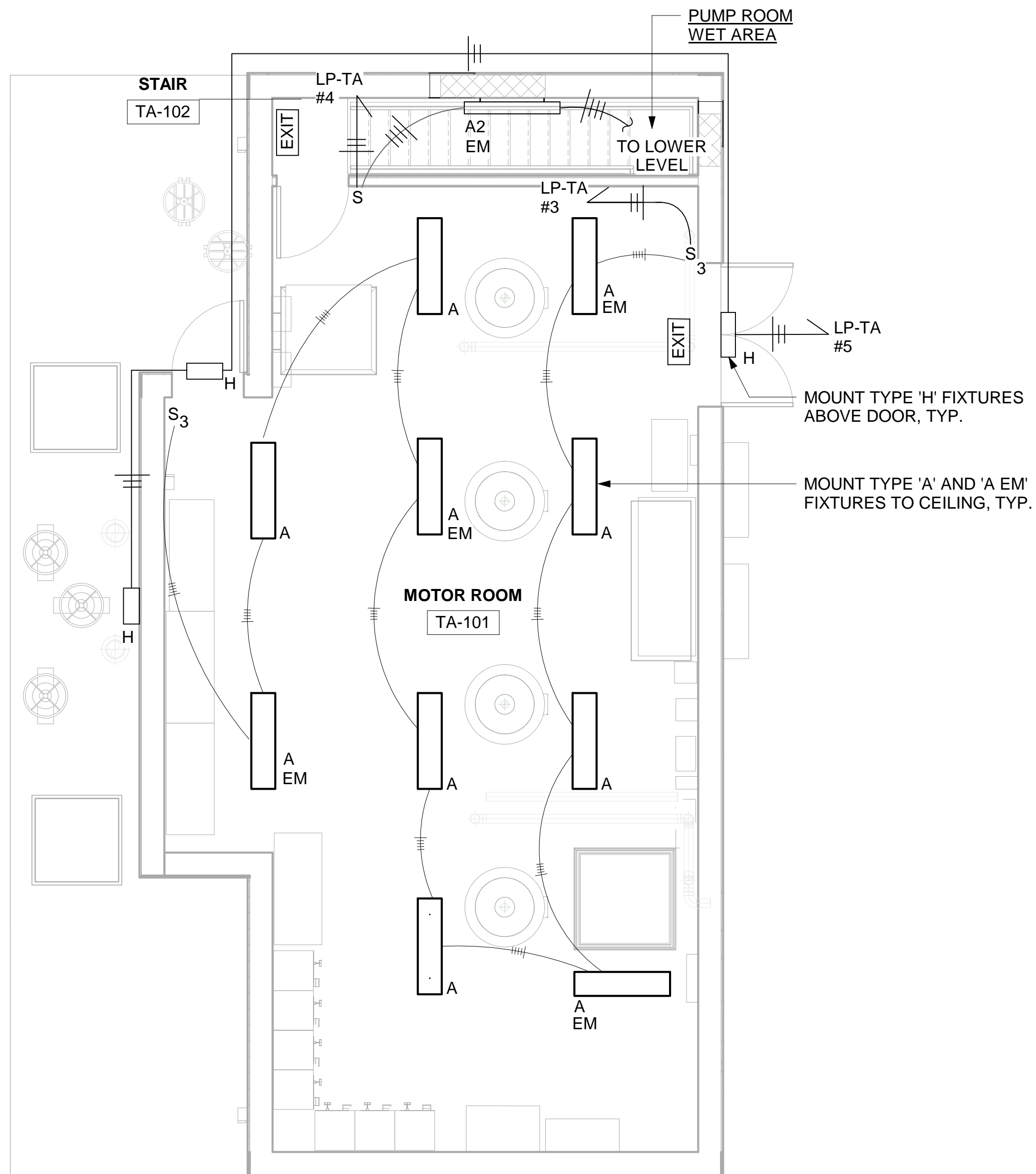


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PROJECT TITLE: UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE				DRAWINGS ISSUED FOR / REVISIONS							EDR JOB #: 21213	
				NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE: 06/2023		
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK				1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: 1/4" = 1'-0"		
				2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWN BY: BWL		
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1				3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	CHECKED BY: GRL/JGD		
											DRAWING NUMBER:	
DRAWING TITLE: TALLMAN PUMP STATION DEMOLITION ROOF PLAN				CONTRACT	4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	E-204	
				1	5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		
					6	06/23	FOR BID	LSE	JGD	GRL		



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



② GROUND FLOOR - LIGHTING PLAN
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION LOWER AND GROUND FLOOR LIGHTING PLANS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
6	06/23	FOR BID	LSE	JGD	GRL

CONTRACT #RFB-RC-SWR-2022-06

EDR JOB #: 21213

DATE: 06/2023

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

DRAWN BY: BWL

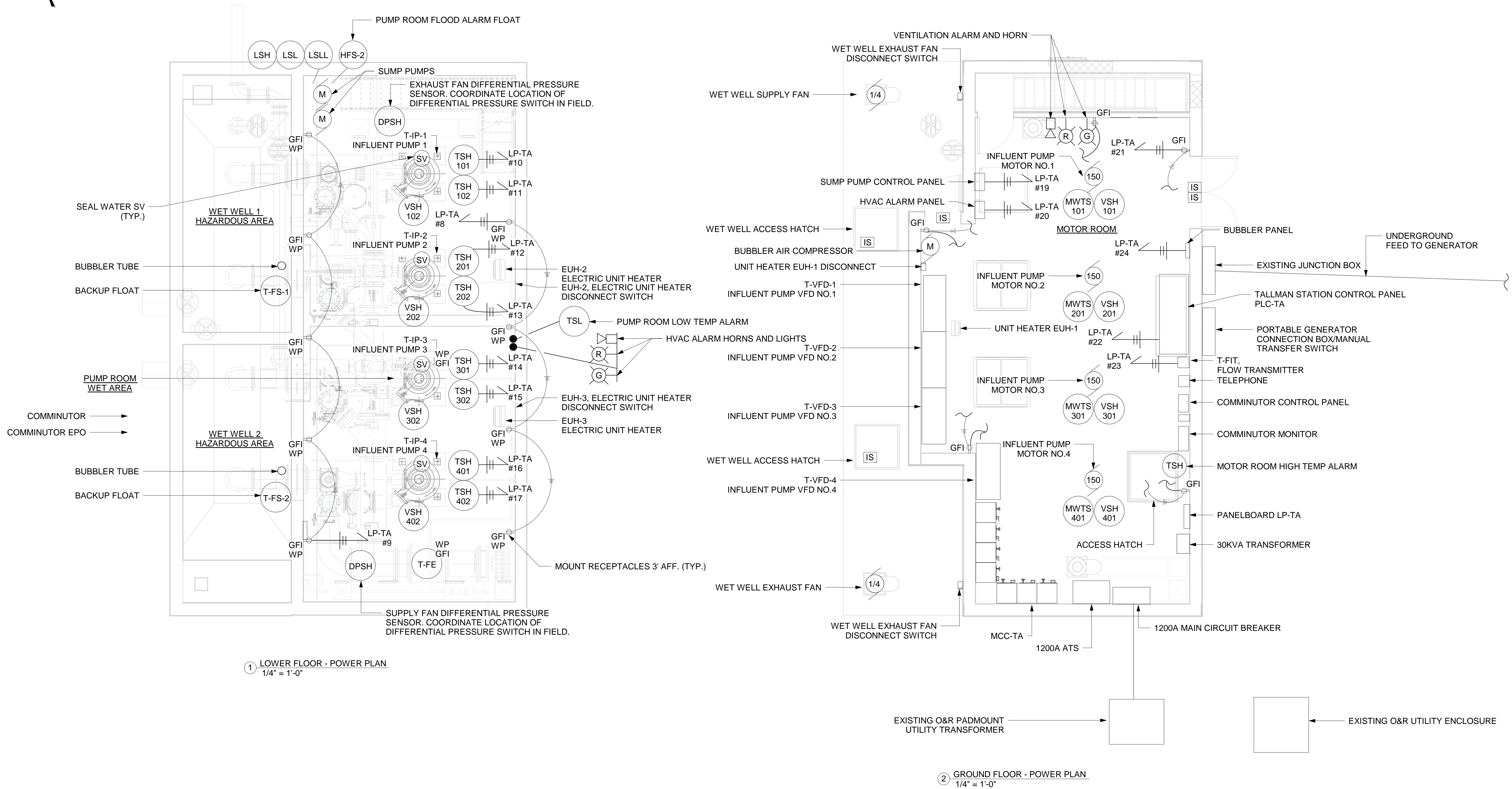
CHECKED BY: GRL/JGD

DRAWING NUMBER:

E-205

CONTRACT
1

NOTE:
1. SCADA WILL BE INTEGRATED INTO STATION CONTROL PANEL.



1/4" = 1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

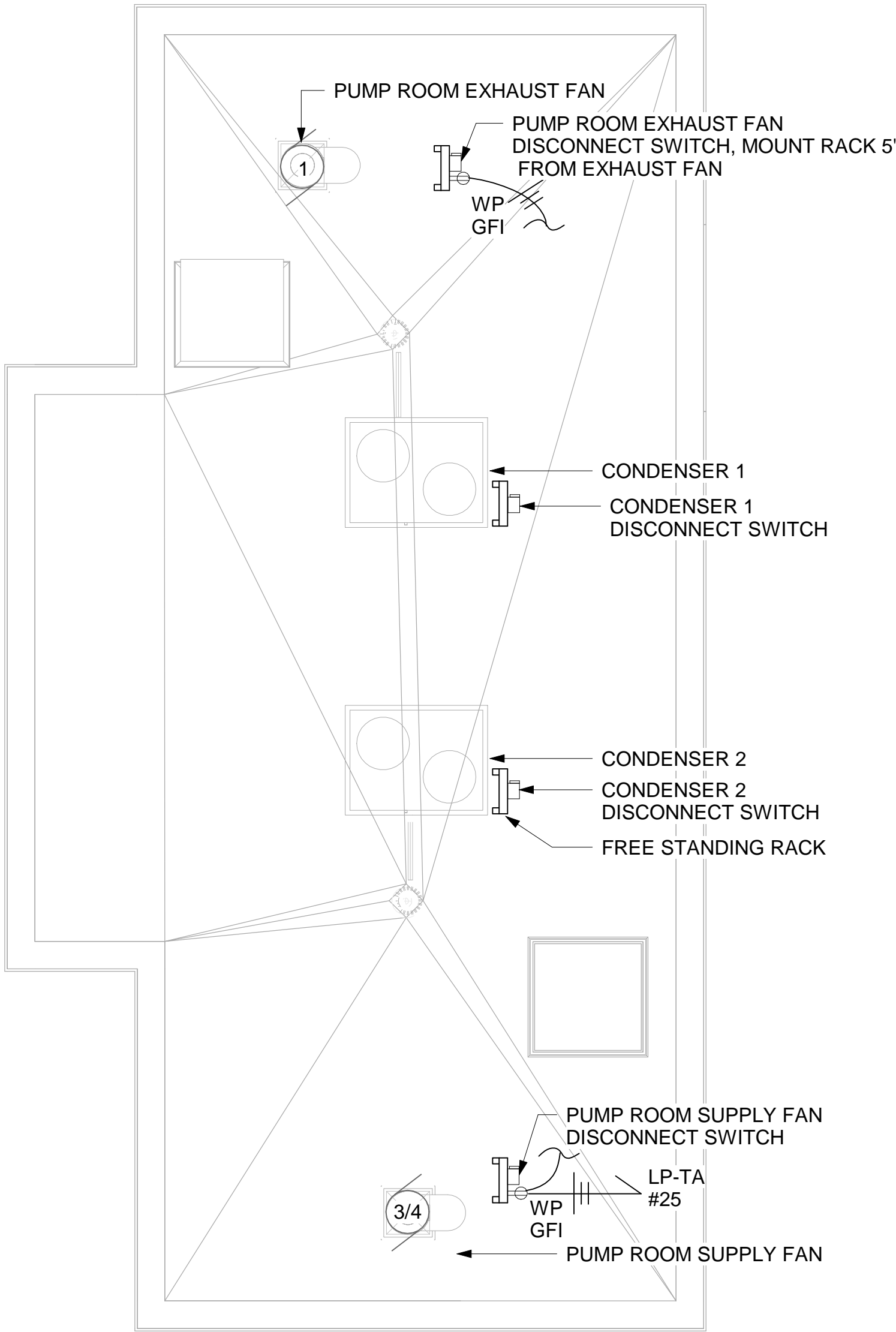
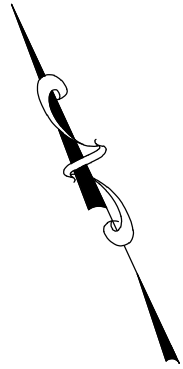
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION LOWER AND GROUND FLOOR POWER PLANS**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE	EDR JOB #	21213
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	06/2023	SCALE:	1/4" = 1'-0"
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWN BY:	BG
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL		CHECKED BY:	GRL/JGD
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWING NUMBER:	
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL			
6	06/23	FOR BID	LSE	JGD	GRL			

1

E-206



① ROOF LEVEL - POWER PLAN
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **TALLMAN PUMP STATION ROOF POWER PLAN**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL
6	06/23	FOR BID	LSE	JGD	GRL

CONTRACT #RFB-RC-SWR-2022-06

EDR JOB #: 21213

DATE: 06/2023

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

DRAWN BY: BWL

CHECKED BY: GRL/JGD

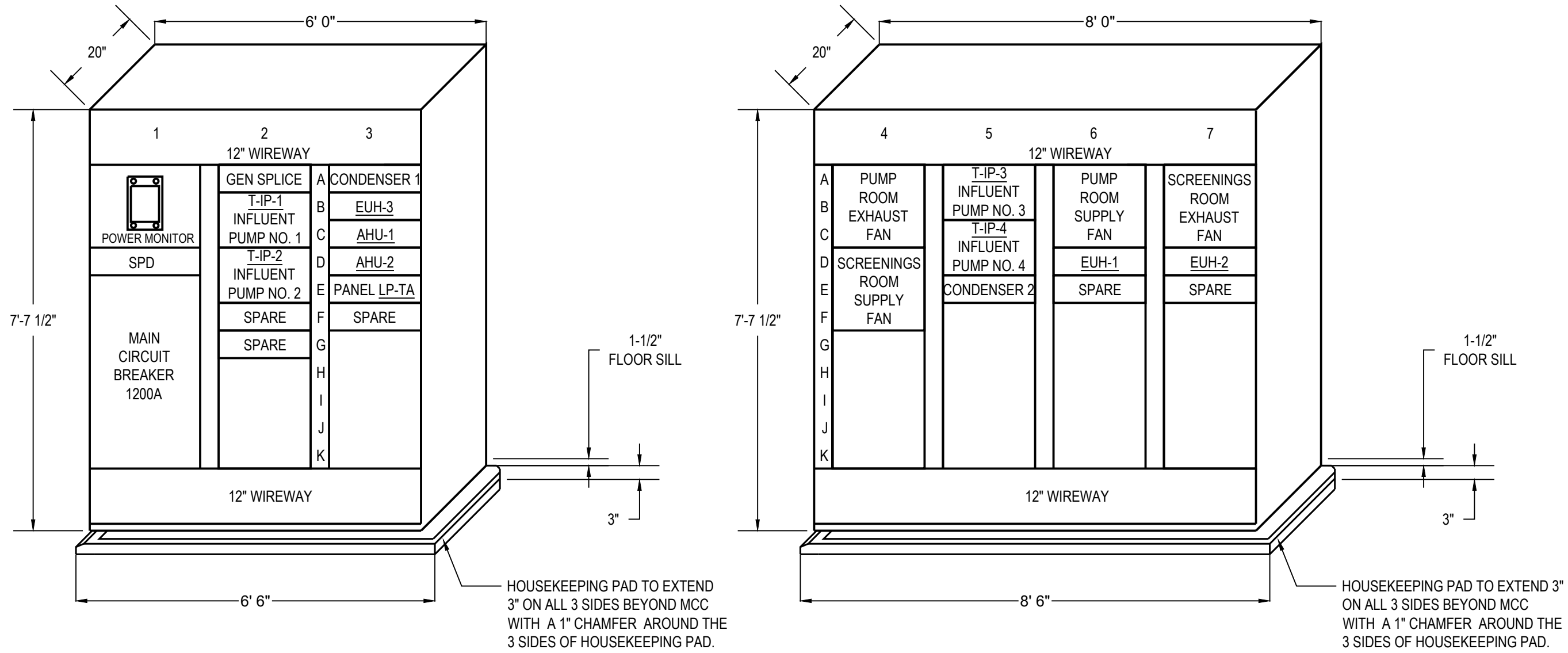
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E-207

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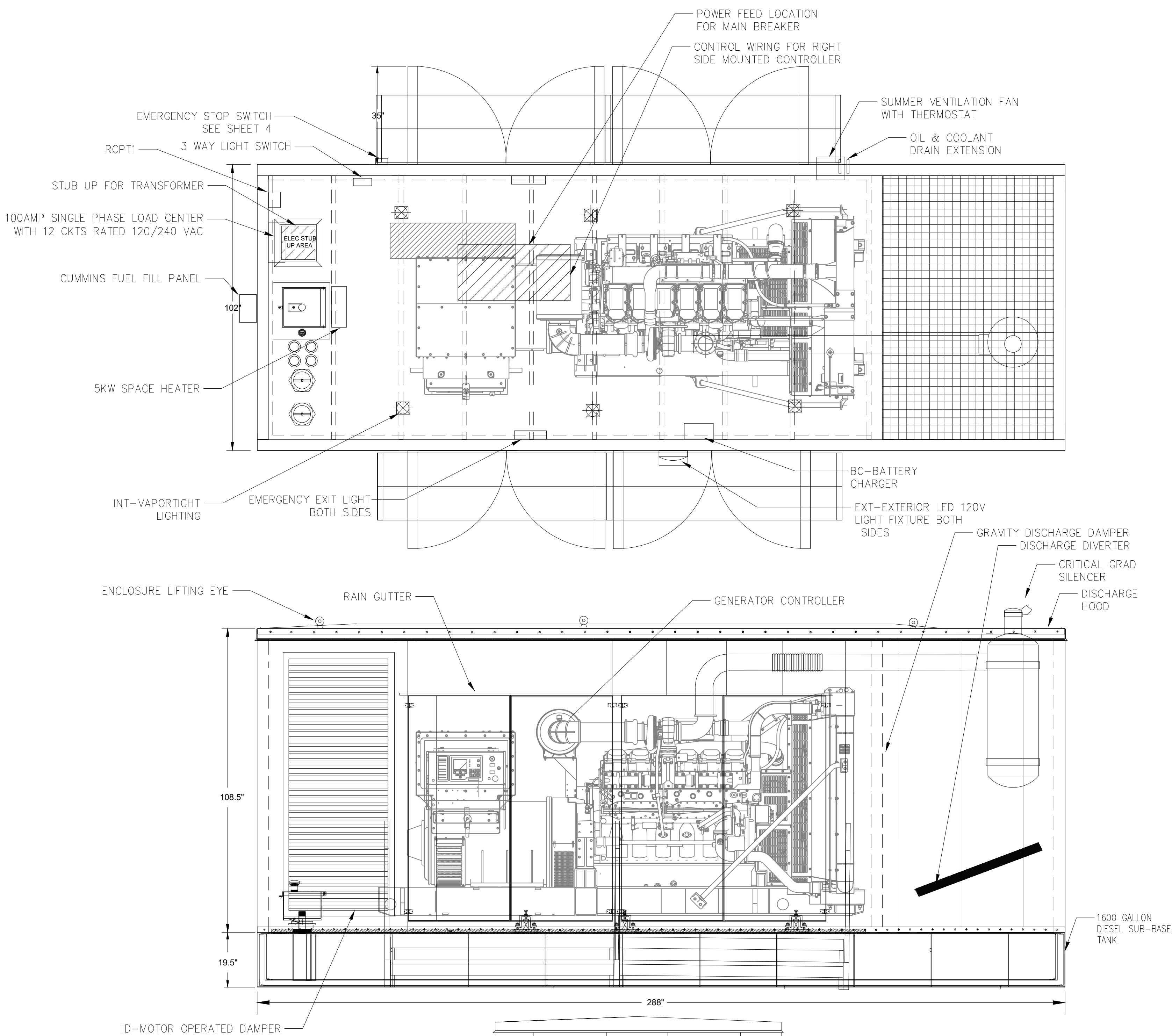
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COMPARTMENT NUMBER	EQUIPMENT NUMBER	EQUIPMENT IN MOTOR CONTROL CENTER MCC-TA							FIELD MOUNTED DEVICES	SEE ELEMENTARY OR SCHEMATIC DIAGRAM ON SHEET:	MINIMUM FIELD WIRING
		EQUIPMENT DESCRIPTION	LOAD	CIRCUIT BREAKER TRIP	STARTER FRAME	STARTER SIZE	STARTER TYPE	DOOR MOUNTED ACCESSORIES			
1A		POWER MONITOR						NP			
1D		SPD						NP			
1E		MAIN		1200AT		--	--	NP			
2A		PANEL TA-GEN SPLICE		30AT	30AF			NP			3#8, 1#10 GND, 1-1/2"C
2B		T-IP-1, INFLUENT PUMP NO. 1	150 HP	250AT	250AF	--	--	NP	VFD		3-250KCMIL, 1#4GND, 2-3"C
2D		T-IP-2, INFLUENT PUMP NO. 2	150 HP	250AT	250AF	--	--	NP	VFD		3-250KCMIL, 1#4GND, 2-3"C
2F		SPARE		15AT	15AF			NP			3#12, 1#12 GND, 3/4"C
2G		SPARE		20AT	30AF	--	--	NP			
3A		CONDENSER 1		35AT	50AF			NP	DS		3#10, 1#10 GND, 3/4"C
3B		EUH-3, ELECTRIC UNIT HEATER PUMP ROOM	10KW	20AT	30AF			NP	DS		3#12, 1#12 GND, 3/4"C
3C		AHU-1, AIR HANDLER UNIT		15AT	15AF			NP	DS		3#12, 1#12 GND, 3/4"C
3D		AHU-2, AIR HANDLER UNIT		15AT	15AF			NP	DS		3#12, 1#12 GND, 3/4"C
3E		PANEL LP-TA		45AT	50AF	--	--	NP			3#8, 1#10 GND, 1-1/2"C
3F		SPARE		20AT	30AF	--	--	NP			
4A		PUMP ROOM EXHAUST FAN	1 1/2 HP	15AT	15AF	0	FVNR	NP, HOA, IL	DS		3#12, 1#12 GND, 3/4"C
4D		SCREENINGS ROOM SUPPLY FAN	1/4 HP	15AT	15AF	0	FVNR	NP, HOA, IL	DS		3#12, 1#12 GND, 3/4"C
5A		T-IP-3, INFLUENT PUMP NO. 3	150 HP	250AT	250AF	--	--	NP	VFD		3-250KCMIL, 1#4GND, 2-3"C
5C		T-IP-4, INFLUENT PUMP NO. 4	150 HP	250AT	250AF	--	--	NP	VFD		3-250KCMIL, 1#4GND, 2-3"C
5E		CONDENSER 2		35AT	50AF			NP	DS		3#10, 1#10 GND, 3/4"C
6A		PUMP ROOM SUPPLY FAN	3/4 HP	15AT	15AF	0	FVNR	NP, HOA, IL	DS		3#12, 1#12 GND, 3/4"C
6D		EUH-1, ELECTRIC UNIT HEATER MOTOR ROOM	5KW	15AT	15AF			NP	DS		3#12, 1#12 GND, 3/4"C
6E		SPARE		20AT	30AF	--	--	NP			
7A		SCREENINGS ROOM EXHAUST FAN	1/4 HP	15AT	15AF	0	FVNR	NP, HOA, IL	DS		3#12, 1#12 GND, 3/4"C
7D		EUH-2, ELECTRIC UNIT HEATER PUMP ROOM	10KW	20AT	30AF			NP	DS		3#12, 1#12 GND, 3/4"C
7E		SPARE		20AT	30AF	--	--	NP			



MCC-TA ELEVATION

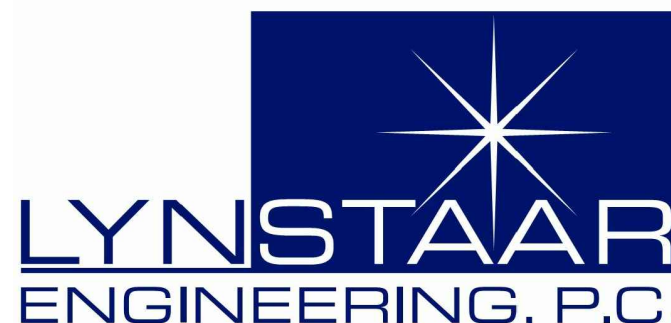
SCALE: 1/2" = 1' 0"



- NOTES:
- ENCLOSURE DIMENSIONS SHALL MATCH EXISTING LENGTH AND WIDTH.
 - CONDUIT STUB-UP AREAS SHALL MATCH EXISTING LOCATIONS.
 - CONTRACTOR SHALL VERIFY IN FIELD EXISTING DIMENSIONS AND MATCH ACCORDINGLY.

GENERATOR DETAILS

SCALE: 1/2" = 1' 0"



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 217 Montgomery Street, Suite 1100
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PROJECT TITLE: **UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE**

PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**

CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**

DRAWING TITLE: **TALLMAN PUMP STATION SCHEDULES AND DETAILS**

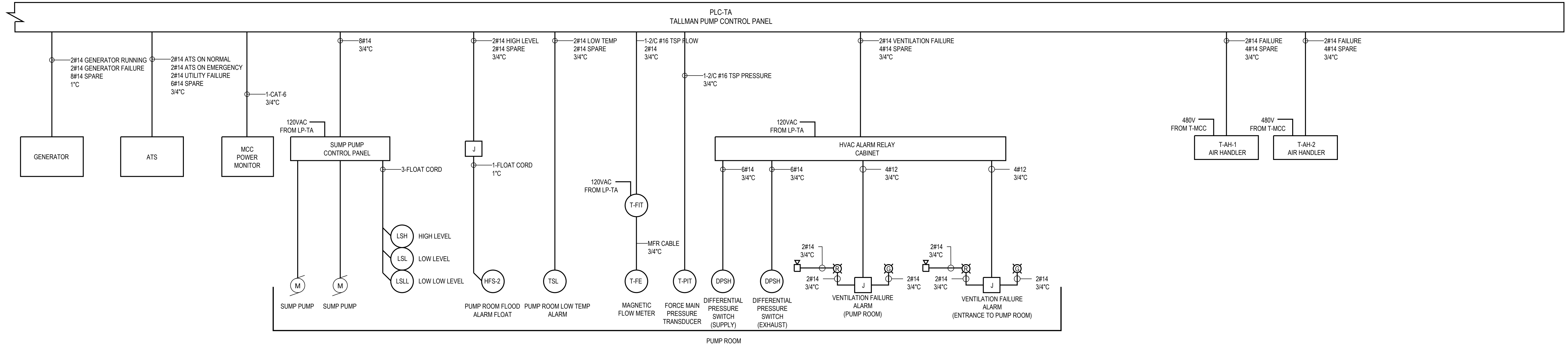
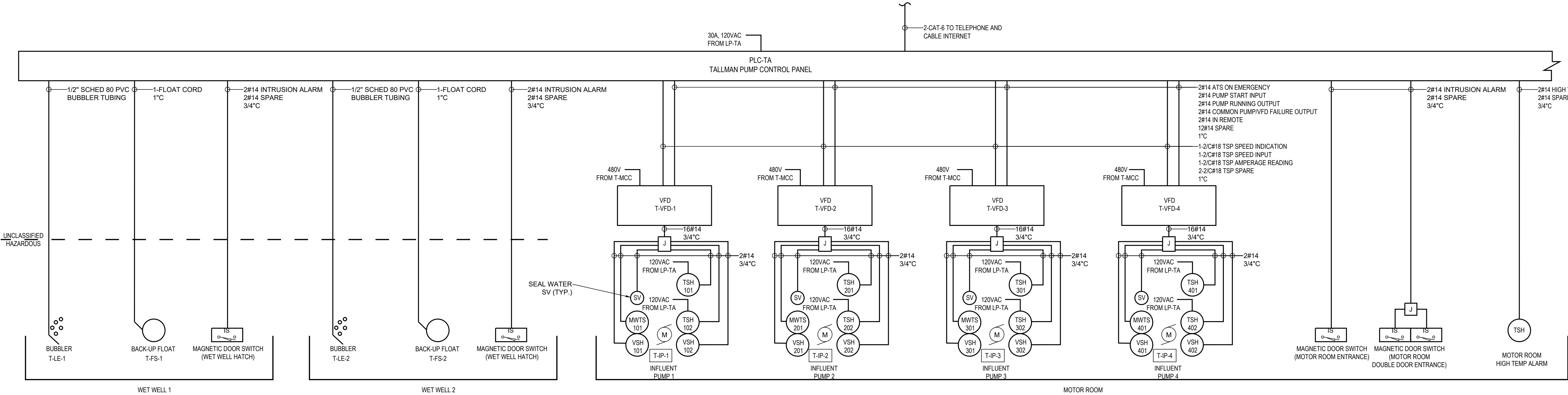
DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE	EDR JOB#
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2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: NO SCALE	
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	DRAWN BY: BL	
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	CHECKED BY: GRL/JGD	
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:	
6	06/23	FOR BID	LSE	JGD	GRL	E-209	

CONTRACT
1

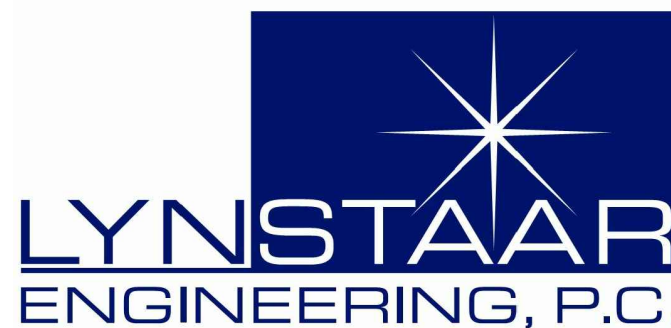
CONTRACT #RFB-RC-SWR-2022-06

Date Printed: 6/11/2023 10:07:52 AM
 P:\Jobs\2023\Union Hill and Tallman\DWG\231610 CONTROL DIAGRAM.dwg



CONTROL SINGLE LINE DIAGRAM
 SCALE: NONE

NOTES:
 1. PROVIDE SEAL-OFFS AS REQUIRED AT HAZARDOUS AREA BOUNDARIES.



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PROJECT TITLE:	UNION HILL AND TALLMAN AVE PUMP STATION UPGRADE	
PROJECT LOCATION:	ROCKLAND COUNTY, NEW YORK	
CLIENT:	ROCKLAND COUNTY SEWER DISTRICT No 1	
DRAWING TITLE:	TALLMAN PUMP STATION CONTROL DIAGRAM	

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT #RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	EDR JOB#:	21213
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DATE:	06/2023
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE:	NO SCALE
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	DRAWN BY:	BG
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	CHECKED BY:	GRU/JGD
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:	E-210
6	06/23	FOR BID	LSE	JGD	GRL		

CONTRACT
1

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK.
2. DUCTWORK & PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING & DUCTWORK SHALL BE DETERMINED IN FIELD AND COORDINATION DRAWINGS SHALL BE SUBMITTED IN CONJUNCTION WITH THE GENERAL CONTRACTOR FOR ENGINEER APPROVAL. SEE SPECIFICATION 01010.
3. THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
6. WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA. CONTRACTOR SHALL PROVIDE HOT WORK PERMIT WHERE NECESSARY AND OBTAIN HOT WORK PERMIT FROM OWNER.
7. ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
8. THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
9. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR. AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER, THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
10. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
12. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
13. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
14. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
15. PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR.
16. THE CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, PIPING, DUCTWORK, AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK. WITHIN TWO WEEKS AFTER AWARD OF CONTRACT. SHOP DRAWINGS SHALL INDICATE ALL TECHNICAL DATA, STRUCTURAL MEMBERS, WALLS, FLOORS, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE INSTALLED. ANY DEVIATION IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER. THE ENGINEER SHALL REVIEW AND TURN AROUND SHOP DWGS. WITHIN (7) DAYS OF RECEIPT OF SAME.
17. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
18. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED.
19. ALL WORK SHOWN ON ALL DRAWINGS IS TO BE PROVIDED UNLESS OTHERWISE NOTED.
20. ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
21. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
22. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING REASONABLE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK AND OTHER PROPERTY.

HVAC NOTES

1. PROVIDE VOLUME DAMPERS AS INDICATED ON DRAWINGS AND AT ALL BRANCH DUCT TAKE OFFS FROM DUCT MAINS AND TO DIFFUSERS, REGISTERS AND GRILLES ONLY IN NON-CLASSIFIED SPACES. VOLUME DAMPERS SHALL BE OPPOSED BLADE OR BUTTERFLY TYPE, GALVANIZED STEEL THAT CAN BE MANUALLY ADJUSTED AND LOCKED IN PLACE EXTERNALLY OF THE DUCT. PROVIDE LOCKING QUADRANT. ALL CONCEALED DAMPERS SHALL BE PROVIDED WITH ACCESS DOORS
2. PROVIDE SLEEVES FOR ALL DUCTS PENETRATING AND PASSING THROUGH ALL PARTITIONS, FLOORS, CEILINGS AND WALLS, ALLOW ROOM IN SLEEVE FOR INSULATION. SLEEVES SHALL BE MINIMUM OF 22 GAUGE SHEET METAL. PACK ANNULAR SPACE IN SLEEVE AROUND DUCT WITH FIRE RATED MATERIAL. SIMILAR TO THERMAFIBER. SEAL AND CAULK ALL WALL, FLOOR, CEILING AND SLAB OPENINGS WITH U.L. APPROVED FIRE RATED MATERIAL TO PREVENT TRANSMISSION OF ODORS AND SMOKE TO ADJACENT SPACES. ALL DUCT PENETRATIONS OF FIRE RATED WALLS AND SLABS SHALL BE EQUIPPED WITH FIRE/SMOKE RATED DAMPERS
3. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL CEILINGS, DUCTS, CHASES AND WALLS AS REQUIRED FOR ACCESS TO ALL CONCEALED OPERATING DEVICES INCLUDING BUT NOT LIMITED TO FIRE DAMPERS, VOLUME DAMPERS,CONTROL DAMPERS AND BOXES, ETC.
4. ALL HVAC WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE, STATE AND LOCAL BUILDING CODES, SMACNA AND ASHRAE STANDARDS, NFPA-90A, ALL CODES AND ORDINANCES HAVING JURISDICTION, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. UPON COMPLETION OF ALL WORK, ALL EQUIPMENT AND DUCTWORK SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EQUIPMENT UNDER THIS SECTION UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
7. ALL EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES, MANUFACTURER SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.
8. BALANCE AND ADJUST AIRFLOW TO REGISTERS AND GRILLES AS INDICATED ON DRAWINGS. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 10% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB. SUBMIT BALANCING REPORT TO ENGINEER FOR APPROVAL.
9. ALL DUCTWORK SHALL BE STAINLESS STEEL SHEET METAL UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS LATEST EDITION AND APPLICABLE CODES. ALL DUCTWORK SIZES SHOWN ARE SHEETMETAL SIZES, AND REDUCTIONS IN FREE AREA CREATED BY INTERNAL SOUND-LINING ARE ACCOUNTED FOR IN DESIGN.
10. CONTRACTOR SHALL PROVIDE ALL CONTROLS, AND CONTROL WIRING AS REQUIRED FOR COMPLETE CONTROL OF EQUIPMENT FOR A COMPLETE FUNCTIONING SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. INSTALL ALL REQUIRED APPURTENANCES PER CODE WHETHER SPECIFIED OR NOT FOR COMPLETE FUNCTIONING SYSTEMS.
12. HVAC INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER, OR ENGINEERED APPROVED EQUAL)
13. ALL INSULATION TO BE APPLIED IN FULLY ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND UL 723.
14. INSULATE AIR CONDITIONING CONDENSATE DRAIN PIPING WITH 1" THICK MOLDED FIBER GLASS INSULATION.

GENERAL ABBREVIATIONS

- AFF - ABOVE FINISHED FLOOR
- CD - CONDENSATE DRAIN
- D.P. - DIFFERENTIAL PRESSURE
- EA - EXHAUST AIR
- EAT - ENTERING AIR TEMPERATURE
- EF - EXHAUST FAN
- EG - EXHAUST GRILLE
- EB - ELECTRIC BASEBOARD HEATER
- EUH - ELECTRIC UNIT HEATER
- EL - ELEVATION
- ESP - EXTERNAL STATIC PRESSURE
- FC - FLEXIBLE CONNECTION
- FLA - FULL LOAD AMPS
- LAT - LEAVING AIR TEMPERATURE
- MCA - MINIMUM CIRCUIT AMPACITY
- MD - MOTORIZED DAMPER
- MOCPP - MAXIMUM OVER CURRENT PROTECTION
- NTS - NOT TO SCALE
- OA - OUTSIDE AIR
- RA - RETURN AIR
- RAG - RETURN AIR GRILLE
- RS - REFRIGERANT SUCTION
- RL - REFRIGERANT LIQUID
- RTU - ROOF TOP UNIT
- SA - SUPPLY AIR
- SD - SUPPLY DIFFUSER
- SF - SUPPLY FAN
- SG - SUPPLY GRILLE
- STD - STANDARD
- TSP - TOTAL STATIC PRESSURE
- (TYP.) - TYPICAL

SYMBOLS

- ☒

-

SUPPLY DUCT RISER
- ☐

-

RETURN DUCT RISER
- ☒

-

EXHAUST DUCT RISER
- -

WORK TO BE PROVIDED
- -

EXISTING CONDITIONS/WORK BY OTHER TRADES

DEMOLITION GENERAL NOTES

1. THE DEMOLITION, MODIFICATION OR ALTERATION OF EXISTING BUILDINGS, EQUIPMENT, OR MATERIALS SHALL BE COMPLAINT TO ALL LOCAL REGULATIONS AND STATE CODES.
2. FOR MAINTENANCE OF EXISTING PLANT OPERATION AND FOR DEMOLITION SEQUENCE, REFER TO SPECIFICATIONS. CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES WHERE NECESSARY.
3. INCORPORATE NYPA ENVIRONMENTAL SPECIFICATION AS NECESSARY FOR REMOVAL OF HAZARDOUS MATERIALS, INCLUDING OIL, MERCURY, PCBs, LEAD, ASBESTOS, ETC.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

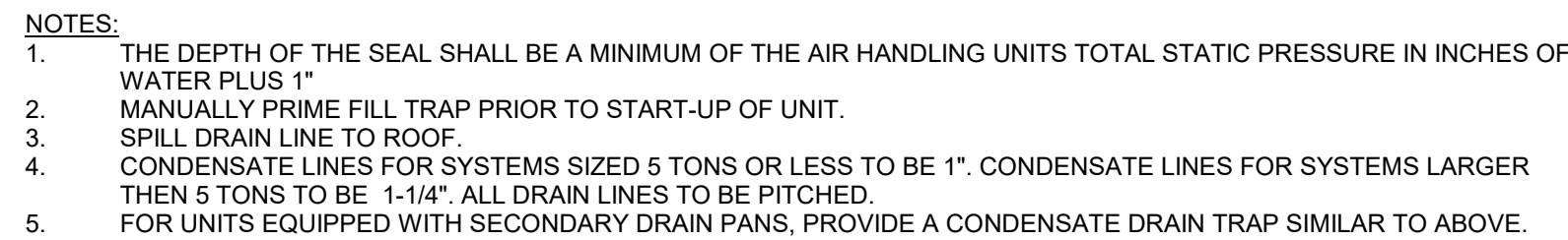
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

DRAWING TITLE: **PUMP STATION NOTES, LEGEND AND ABBREVIATIONS**

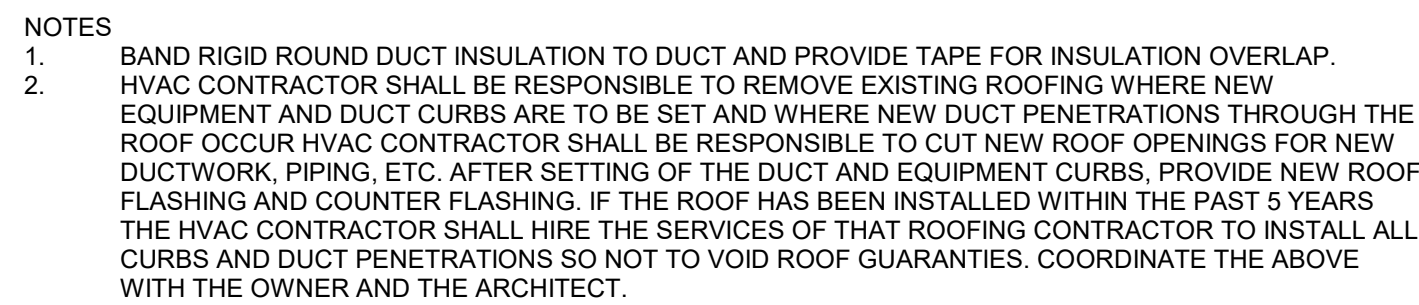
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NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
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2	07/22	90 PERCENT DESIGN REVIEW	MJL	JGD	GRL	DRAWN BY: J. ROSS
3	09/22	FOR REGULATORY REVIEW	MJL	JGD	GRL	CHECKED BY: G. LYNCH
4	01/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	DRAWING NUMBER: H-001
5	03/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	
6	06/23	FOR BID	MJL	JGD	GRL	

CONTRACT # **RFB-RC-SWR-2022-06**
EDR JOB # **21213**



4 DUCT RISER SUPPORT DETAIL
1/8" = 1'-0"



NOTES:

1. THE RAISED CANT STEP HEIGHT SHALL BE COORDINATED WITH THICKNESS OF ROOF INSULATION ON ARCHITECTURAL DRAWINGS. IN LIEU OF A SUPPORT CURB WITH A RAISED CANT. PROVIDE CONTINUOUS FIRE RETARDANT BLOCKING, UNDER THE RAIL, AND RAISE THE RAIL TO ACCOMMODATE THE THICKNESS OF THE ROOF INSULATION. SECURE BLOCKING TO THE ROOF STRUCTURE AND RAILS TO THE BLOCKING WITH LOAD RATED, RUSTPROOF FASTENERS.
2. THE EQUIPMENT RAIL SHALL BE DESIGNED AND FABRICATED TO THOROUGHLY SUPPORT ITS RESPECTIVE PIECE OF EQUIPMENT. AS A MINIMUM, EQUIPMENT RAILS SHALL BE FABRICATED OF 18 GAUGE GALVANIZED STEEL WITH BUILT-IN CANT, MONOLITHIC CONSTRUCTION WITH INTEGRAL BASE PLATE AND CONTINUOUS MITERED AND WELDED CORNER SEAMS, WITH FACTORY INSTALLED FIRE RETARDANT WOOD NAILER. EACH EQUIPMENT RAIL SHALL INCLUDE A MATCHING 18 GAUGE GALVANIZED STEEL COUNTERFLASHING CAP WITH INTEGRAL DRIP EDGE, ALL CORNERS MARKED AND WELDED TO THE BASE PLATE AND ATTACHED TO EQUIPMENT RAIL OVER A FEET OF OVERLAP. DO NOT INCORPORATE 1/2" GAUGE INTERNAL GUSSET REINFORCING. SECURELY FASTEN TO ROOF DECK AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE UNIT/PIPING/DUCTWORK SHALL BE INSTALLED LEVEL AND PLUMB.

C-CLAMP W/LOCKING NUT AND RETAINING CLIP. SEE NOTE #4
 SIDE BEAM CLAMP SEE NOTE #4
 STRUCTURAL STEEL OR OPEN WEB STEEL JOISTS (TYP.)
 CONCRETE FLOOR OR ROOF SLAB
 BACK TO BACK ANGLE IRON W/SPACE BLOCK 2 FT. ON CTR. SEE NOTE #2.
 NUT & WASHER (TYP.)
 TACK WELT IN PLACE BOTH SIDES
 DOUBLE SIDED BEAM CLAMP
 HANGER ROD (TYP) SEE NOTE #1

NOTES:

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

H-002

ELECTRIC UNIT HEATER SCHEDULE								
NAME	AIRFLOW RATE (CFM)	HEATING CAPACITY KW	HEATING CAPACITY MBH	VOLTAGE	AMPS	WEIGHT (LBS)	MANUFACTURER	COMMENTS
UH-1	350	5	85.3	460/3	6	27	QMARK MUH0541	-
UH-2	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1
UH-3	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1

1. UNIT HEATER SHALL BE EXPLOSION PROOF AND UL AND cUL APPROVED FOR CLASS I, DIVISION 1 AND 2, GROUP C AND D; CLASS II, DIVISIONS 1 AND 2, GROUPS E, F, AND G.

SPLIT SYSTEM AIR HANDLER SCHEDULE							
NAME	SUPPLY AIR (CFM)	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	WEIGHT (LBS)	MANUFACTURER
AIR HANDLER 1	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2
AIR HANDLER 2	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2

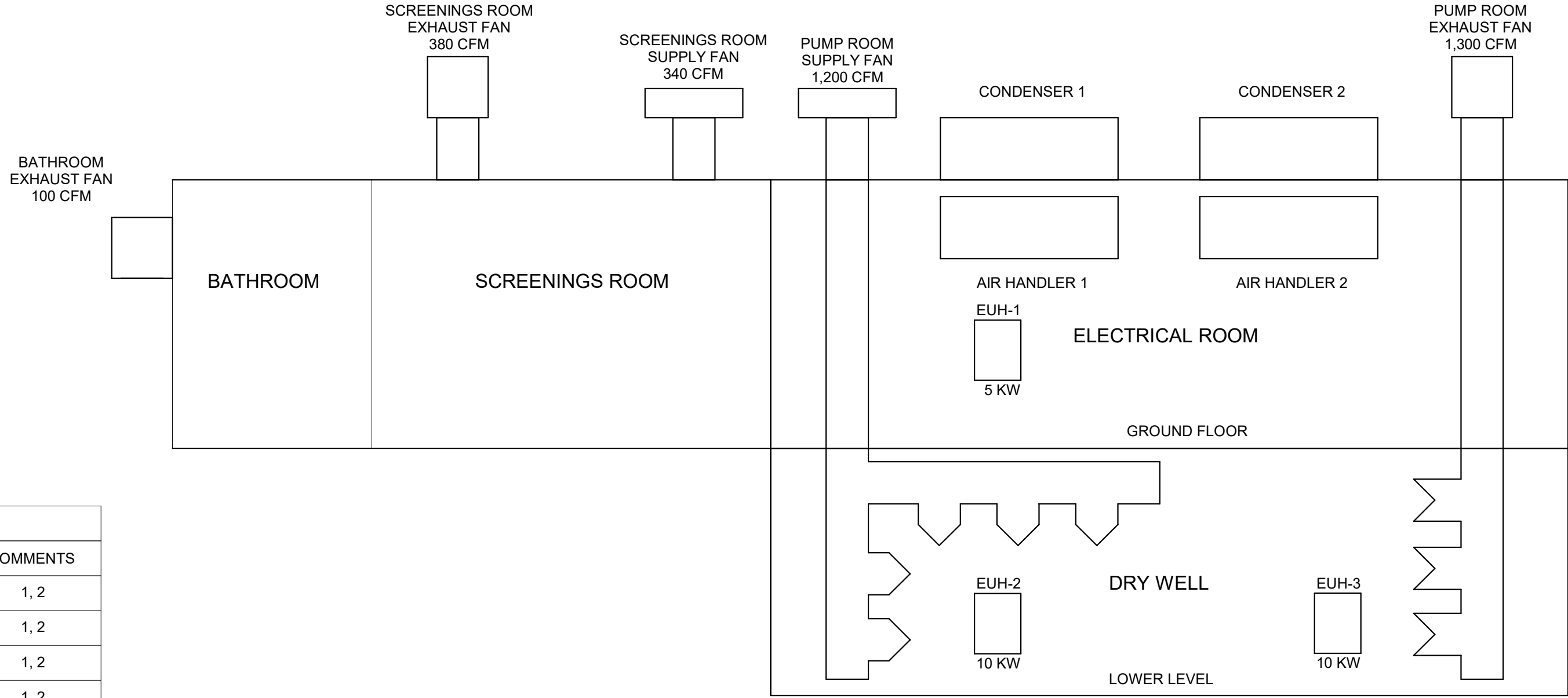
1. AIR HANDLERS TO BE PROVIDED WITH 1 GPM CONDENSATE PUMP.

SPLIT SYSTEM CONDENSER SCHEDULE							
NAME	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER
CONDENSER 1	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4
CONDENSER 2	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4

1. SPLIT SYSTEMS TO BE PROVIDED WITH SUPERVISORY CONTROLLER FOR LEAD LAG OPERATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

FAN SCHEDULE												
NAME	CONFIGURATION	AIRFLOW RATE (CFM)	ESP	TOTAL ESP	VOLTAGE	FEI	BHP	MOTOR HP	SOUND (dBA)	MANUFACTURER	MODEL NUMBER	COMMENTS
PUMP ROOM SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,200	1"	-	460/3	-	.55	3/4	67	LOREN COOK	16CVR-S	1, 2
PUMP ROOM EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,300	1"	-	460/3	-	0.60	1	68	LOREN COOK	16CVR	1, 2
SCREENINGS ROOM SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	340	0.5"	-	460/3	-	0.11	1/4	53	LOREN COOK	16CVR-S	1, 2
SCREENINGS ROOM EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	380	0.5"	-	460/3	-	0.12	1/4	54	LOREN COOK	16CVR	1, 2
BATHROOM EXHAUST FAN	CENTRIFUGAL UPBLAST	100	0.25"	-	120/1	-	0.02	1/15	42	GREENHECK	CUE-060-VG	1

1. FANS TO BE PROVIDED WITH FACTORY OR FIELD DISCONNECT SWITCHES WITH LOCK OUT TAG OUT FEATURE. LOCK TO BE SUPPLIED BY CONTRACTOR.
2. FANS SHALL BE SPARK B RESISTANT CONSTRUCTION.

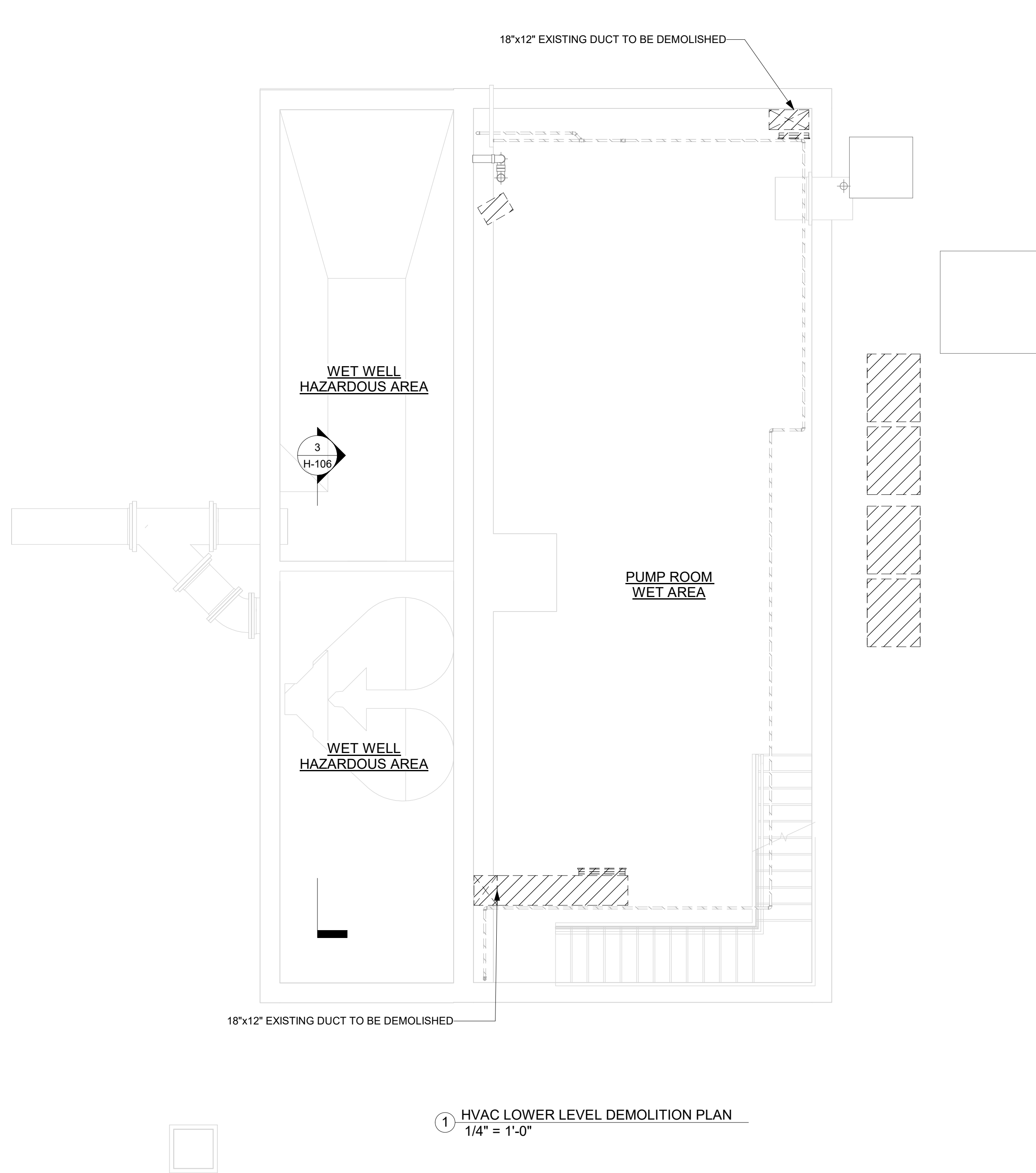


1 AIRFLOW DIAGRAM
1/2" = 1'-0"

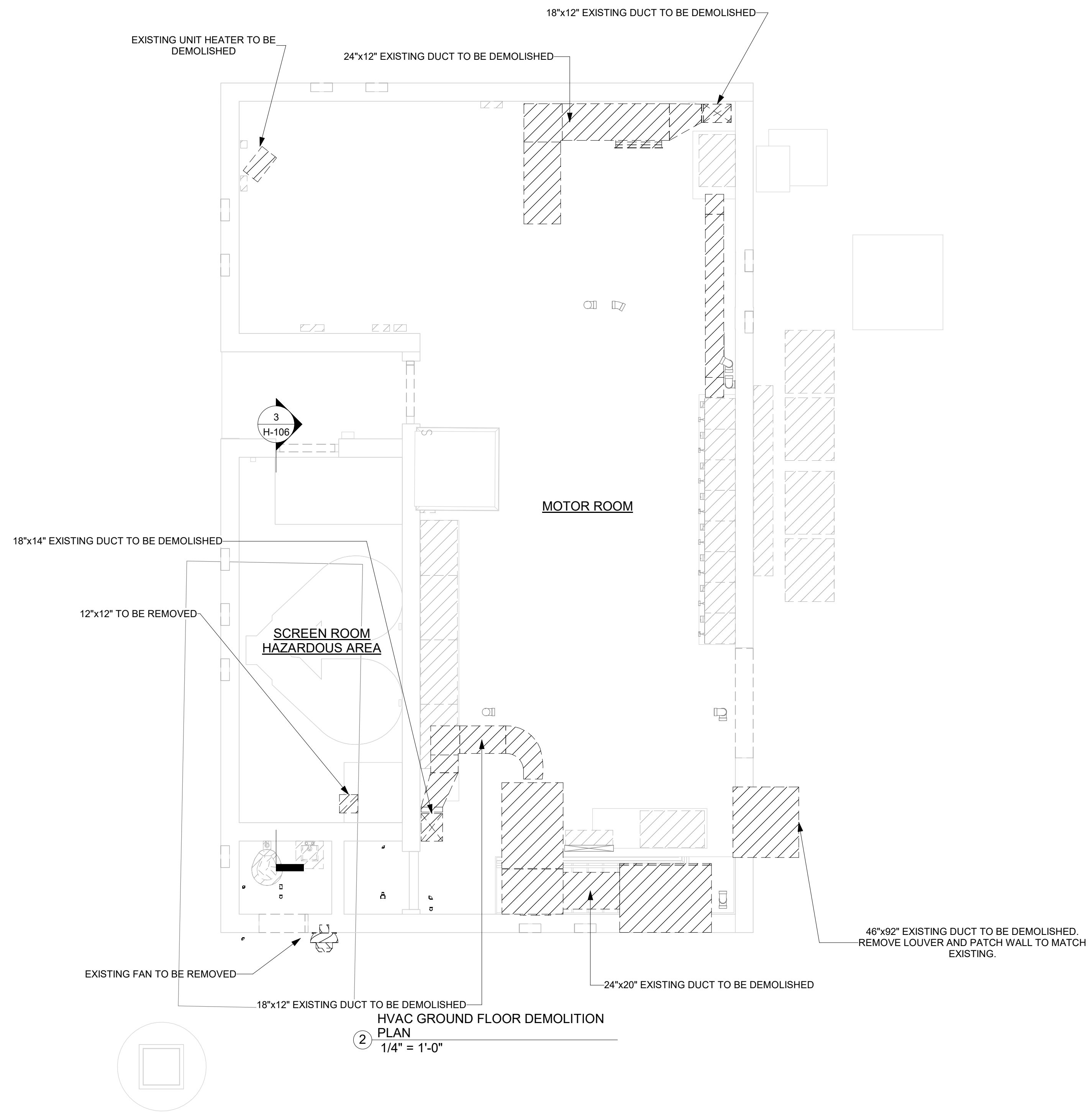


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PROJECT TITLE: UNION HILL PUMP AND TALLMAN AVE PUMP STATION UPGRADE				DRAWINGS ISSUED FOR / REVISIONS				CONTRACT #RFB-RC-SWR-2022-06			
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK				NO.	DATE	ISSUED FOR / REVISIONS			BY	CHK	APP
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1				1	04/22	60 PERCENT DESIGN REVIEW			LSE	JGD	GRL
DRAWING TITLE: UNION HILL PUMP STATION AIRFLOW DIAGRAM, SCHEDULES				2	07/22	90 PERCENT DESIGN REVIEW			LSE	JGD	GRL
				3	09/22	FOR REGULATORY REVIEW			LSE	JGD	GRL
				4	01/23	100 PERCENT DESIGN REVIEW			LSE	JGD	GRL
				5	03/23	100 PERCENT DESIGN REVIEW			LSE	JGD	GRL
				6	06/23	FOR BID			LSE	JGD	GRL
CONTRACT 1								EDR JOB #: 21213			
								DATE: 06/2023			
								SCALE: As indicated			
								DRAWN BY: J. ROSS			
								CHECKED BY: G. LYNCH			
								DRAWING NUMBER: H-101			



① HVAC LOWER LEVEL DEMOLITION PLAN
1/4" = 1'-0"



② HVAC GROUND FLOOR DEMOLITION PLAN
1/4" = 1'-0"



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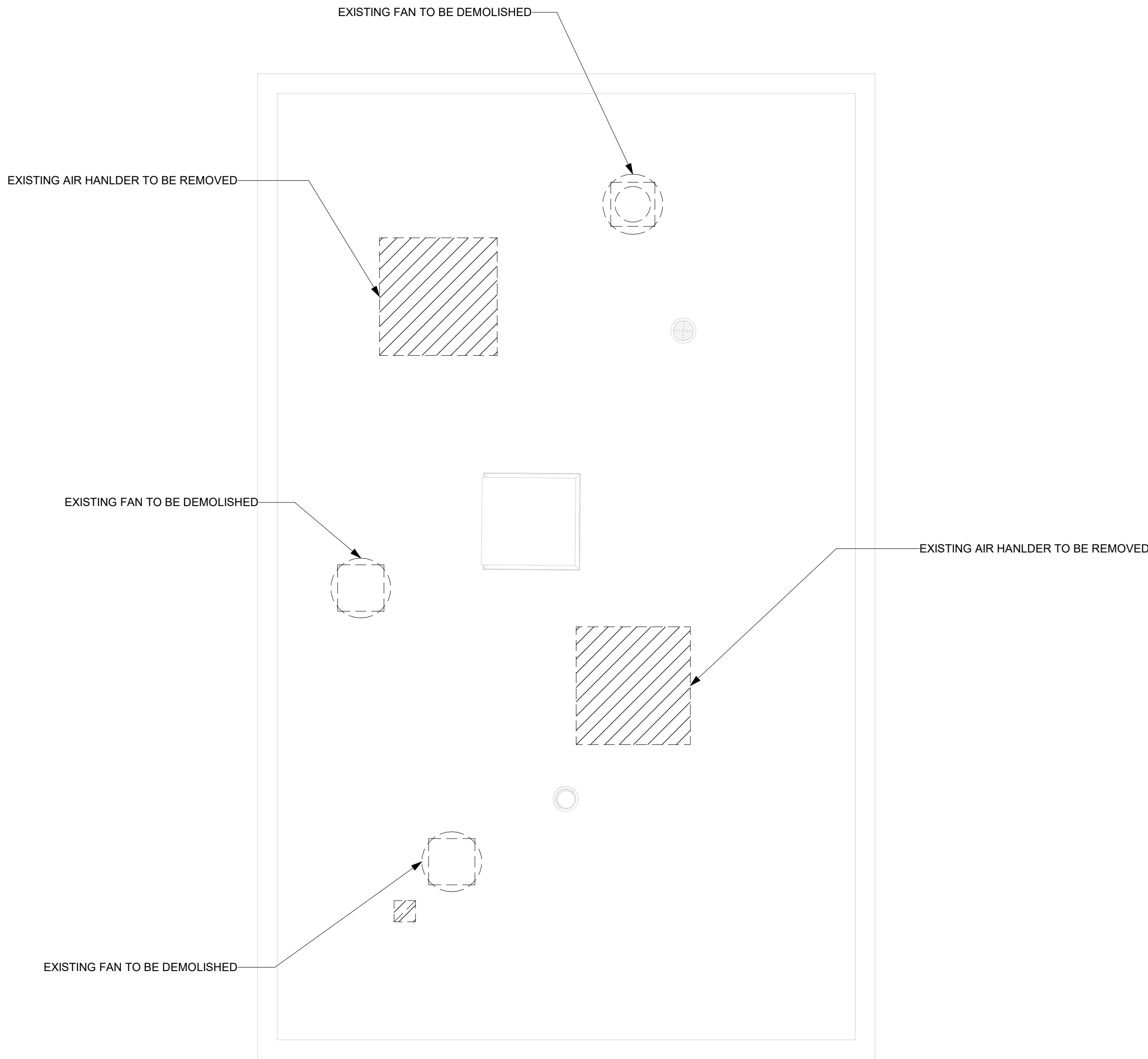
PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK
CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT #RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE	EDR JOB # 21213	
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	06/2023	SCALE: 1/4" = 1'-0"	
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWN BY: J. ROSS	
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL		CHECKED BY: G. LYNCH	
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		DRAWING NUMBER:	
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL		H-102	
6	06/23	FOR BID	LSE	JGD	GRL			

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



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

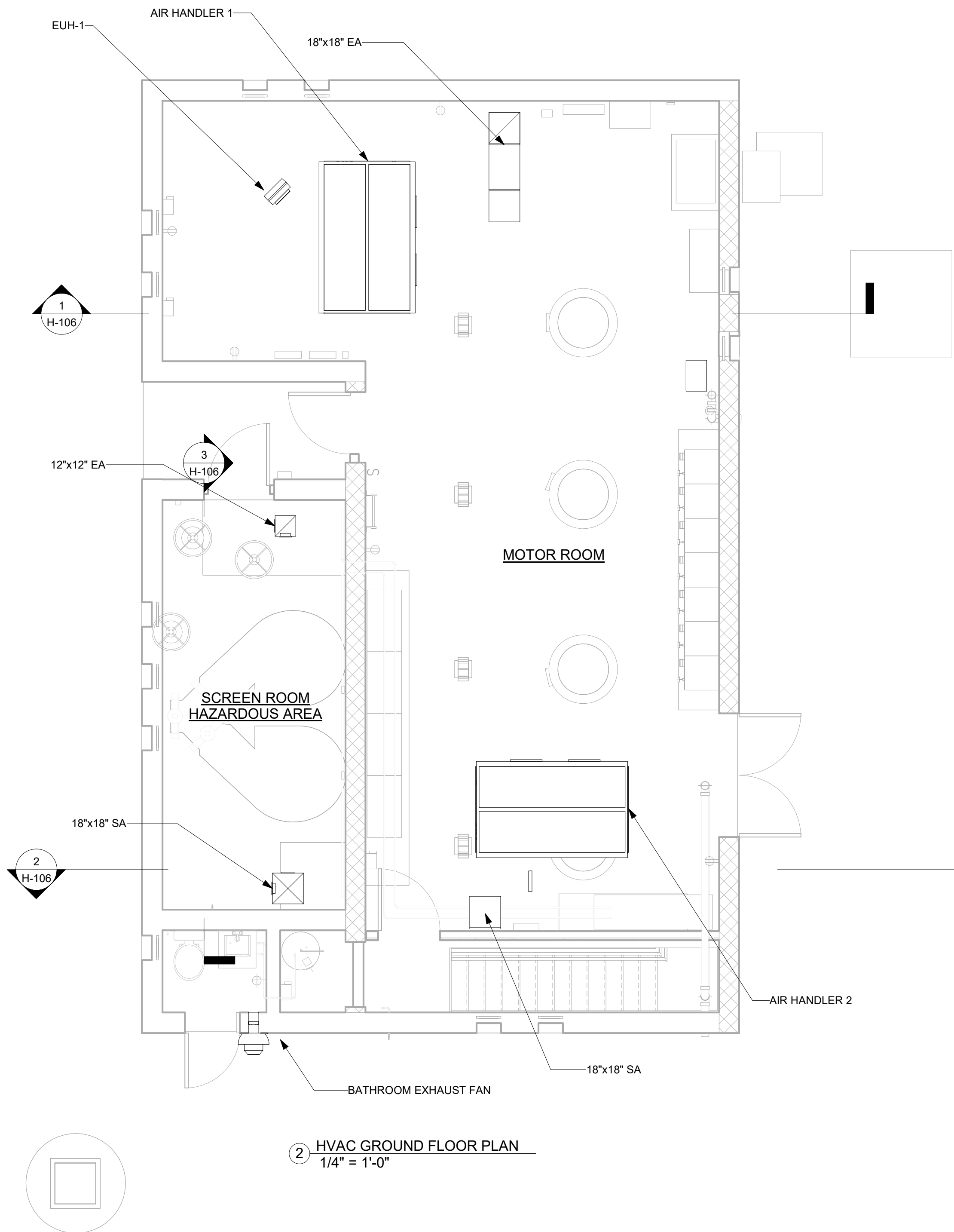
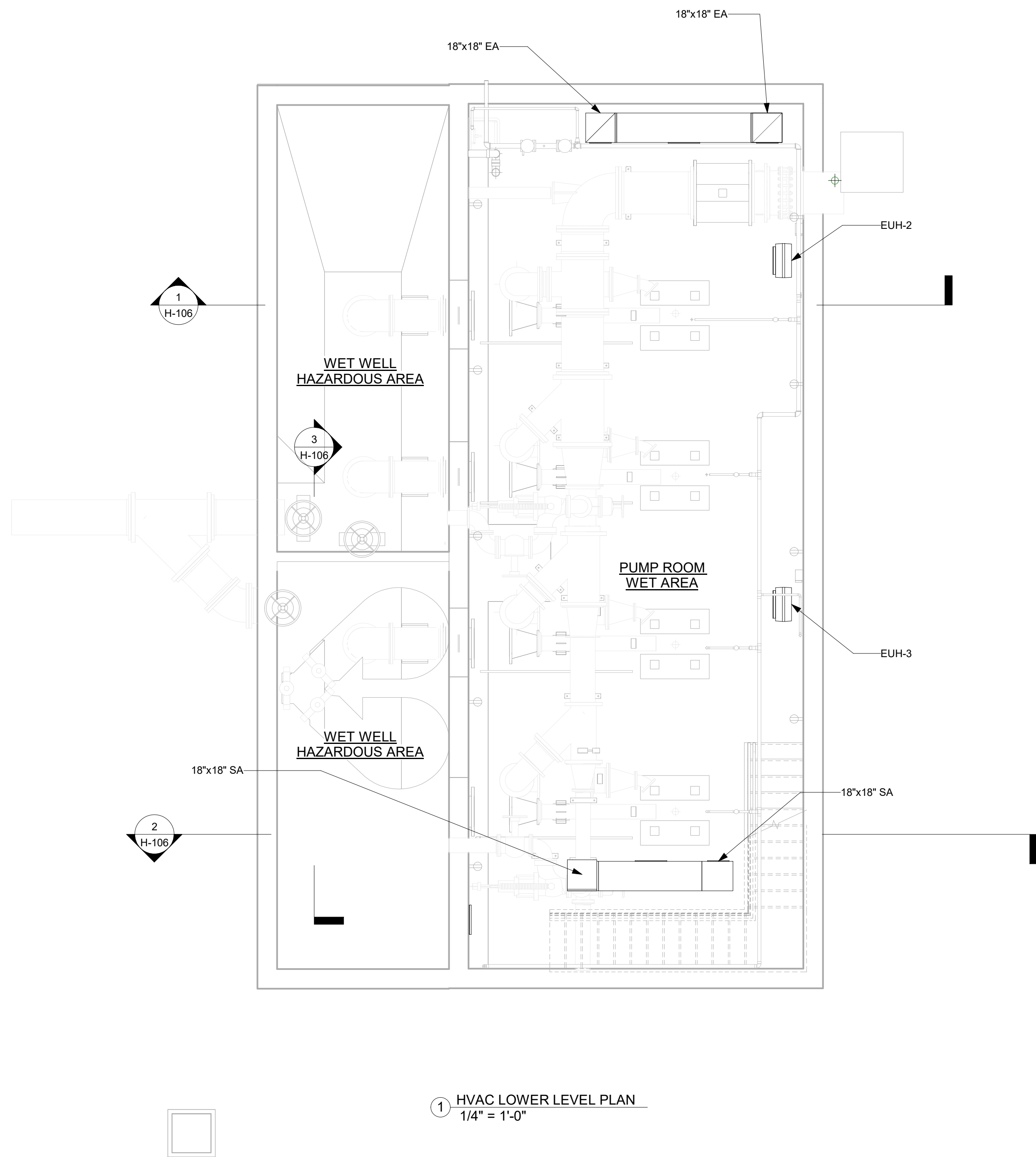
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION DEMOLITION ROOF PLAN**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT #RFB-RC-SWR-2022-06	
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4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	CHECKED BY: G. LYNCH	
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:	
6	06/23	FOR BID	LSE	JGD	GRL	H-103	

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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

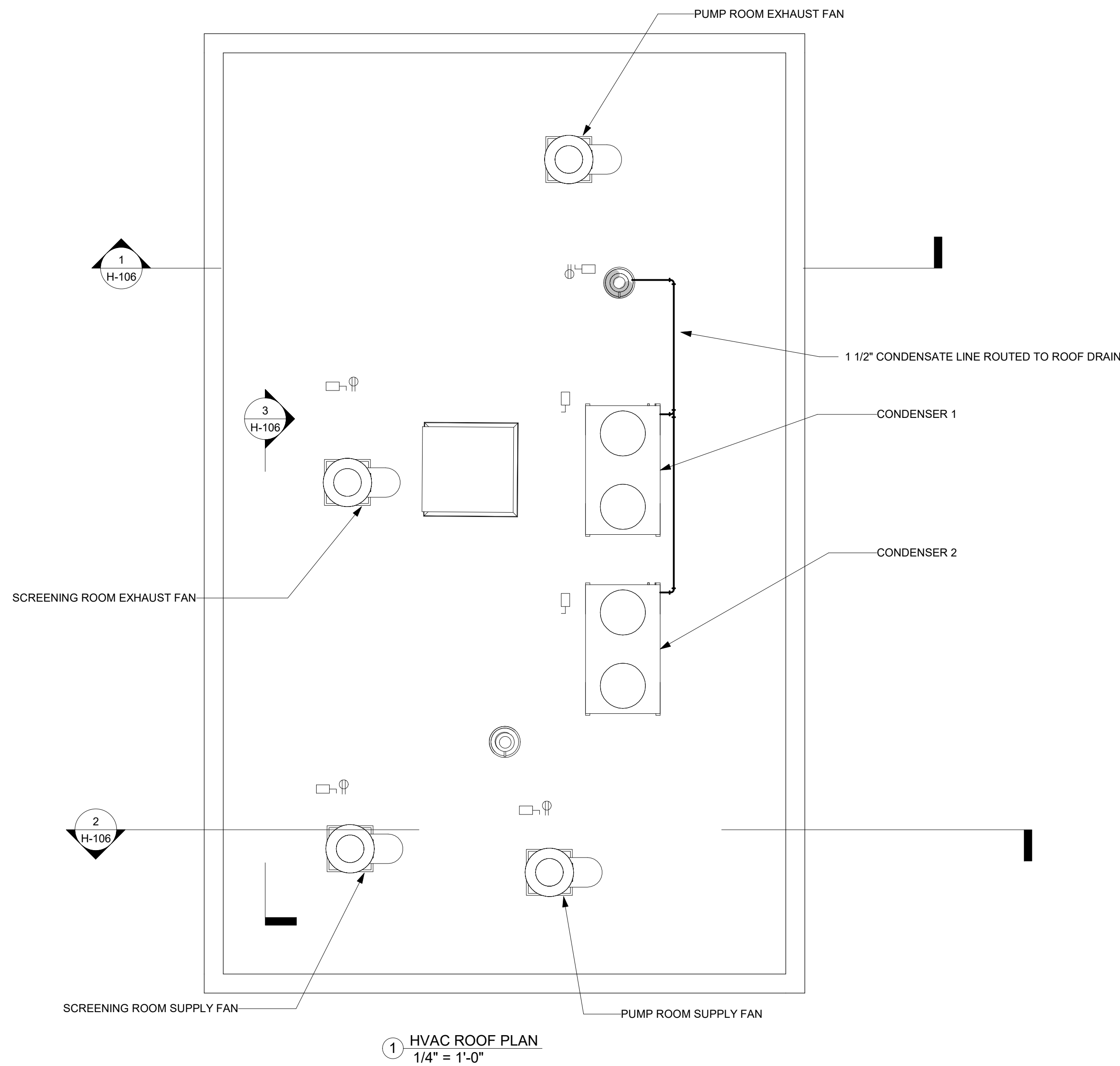
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS						CONTRACT #RFB-RC-SWR-2022-06	
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	EDR JOB #	DATE
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	21213	06/2023
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: 1/4" = 1'-0"	
3	09/22	FOR REGULATORY REVIEW	LSE	JGD	GRL	DRAWN BY: J. ROSS	
4	01/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	CHECKED BY: G. LYNCH	
5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:	
6	06/23	FOR BID	LSE	JGD	GRL	H-104	

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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

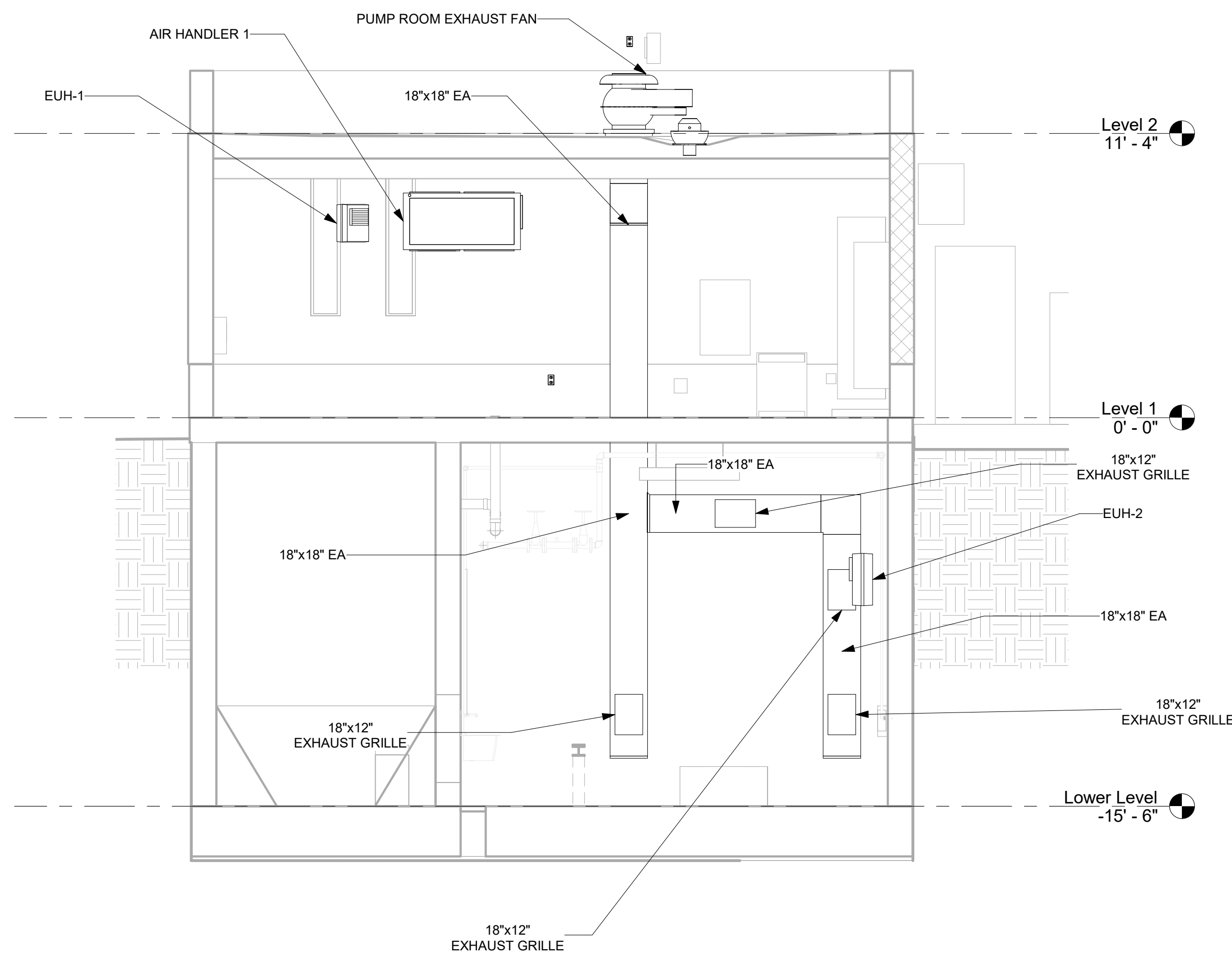
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

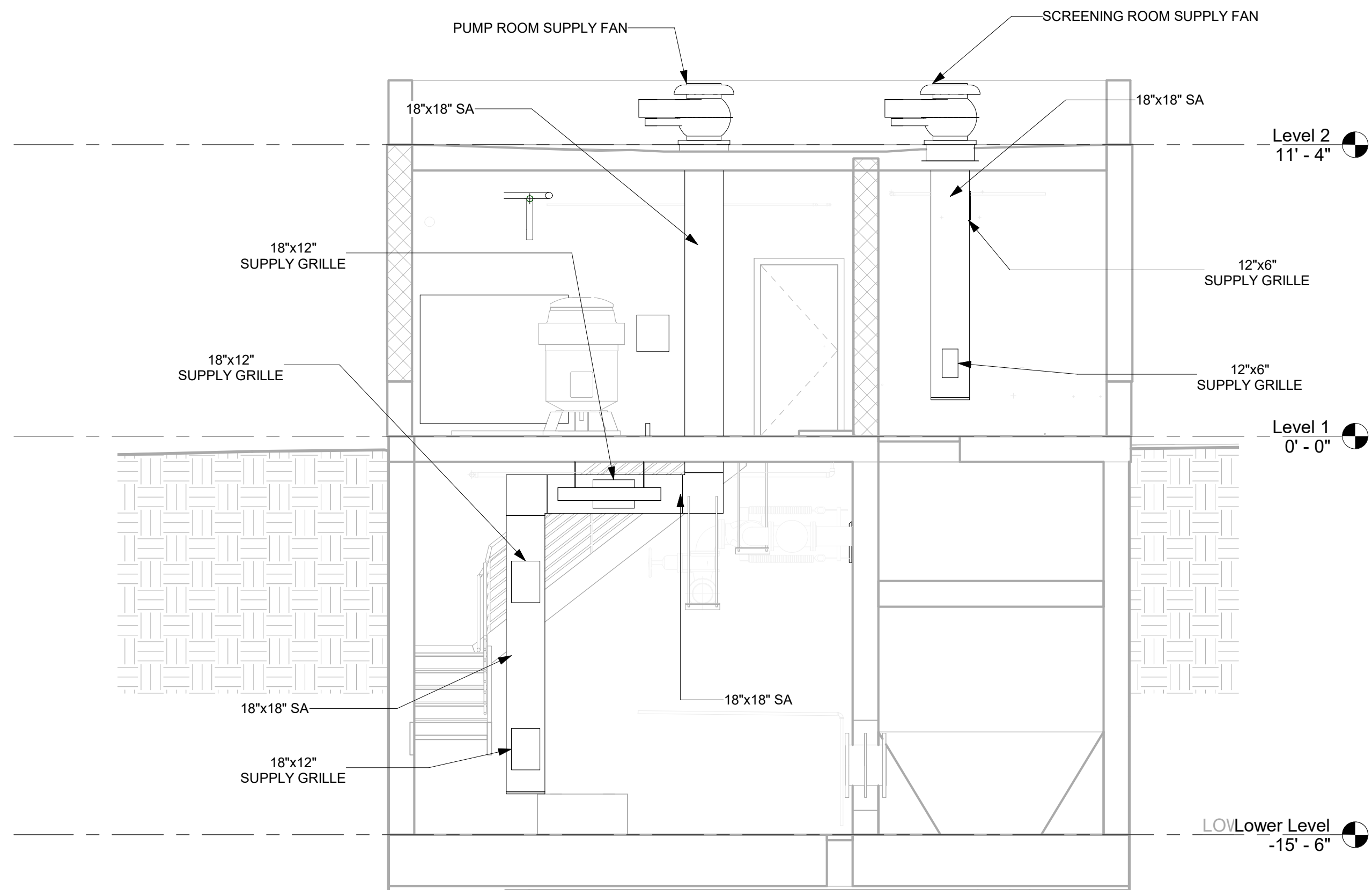
DRAWING TITLE: **UNION HILL PUMP STATION ROOF PLAN**

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6	06/23	FOR BID	LSE	JGD	GRL			

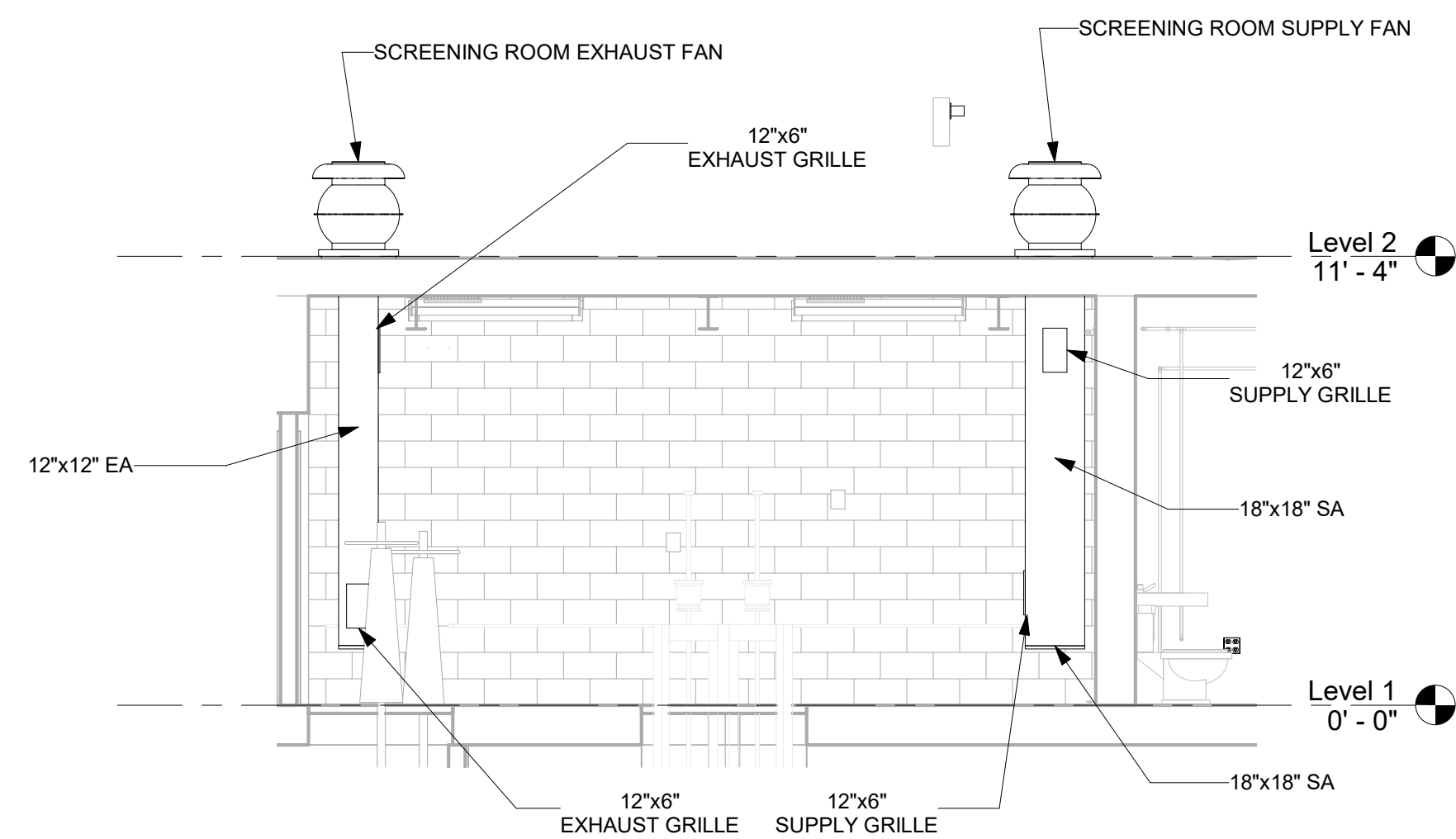
CONTRACT
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① HVAC SECTION 1
1/4" = 1'-0"



② HVAC SECTION 2
1/4" = 1'-0"



③ SCREENINGS ROOM HVAC SECTION
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

DRAWING TITLE: **UNION HILL PUMP STATION SECTIONS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	06/2023
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5	03/23	100 PERCENT DESIGN REVIEW	LSE	JGD	GRL	DRAWING NUMBER:
6	06/23	FOR BID	LSE	JGD	GRL	H-106

CONTRACT
1

CONTRACT #RFB-RC-SWR-2022-06
EDR JOB #: 21213

ELECTRIC UNIT HEATER SCHEDULE								
NAME	AIRFLOW RATE (CFM)	HEATING CAPACITY KW	HEATING CAPACITY MBH	VOLTAGE	AMPS	WEIGHT (LBS)	MANUFACTURER	COMMENTS
UH-1	350	5	85.3	460/3	6	27	QMARK MUH0541	1
UH-2	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1
UH-3	840	10	34.1	460/3	12.7	140	QMARK GUX10004832	1

1. UNIT HEATER SHALL BE EXPLOSION PROOF AND UL AND cUL APPROVED FOR CLASS I, DIVISION 1 AND 2, GROUP C AND D; CLASS II, DIVISIONS 1 AND 2, GROUPS E, F, AND G.

SPLIT SYSTEM AIR HANDLER SCHEDULE							
NAME	SUPPLY AIR (CFM)	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	WEIGHT (LBS)	MANUFACTURER
AIR HANDLER 1	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2
AIR HANDLER 2	5500	152.5	460/3/60	5.1	15	770	JOHNSON CONTROLS J15NLC00D4CAA2

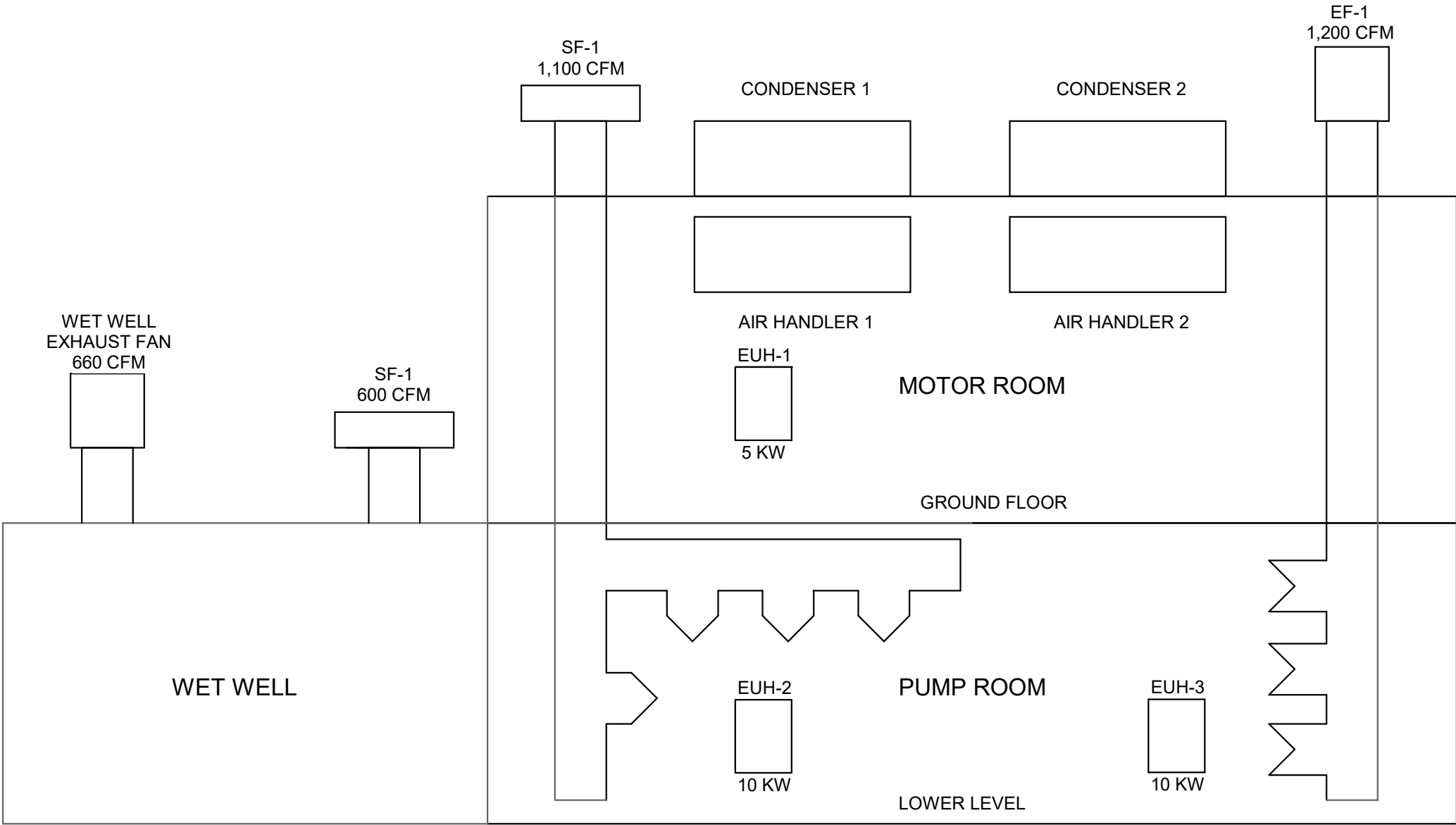
1. AIR HANDLERS TO BE PROVIDED WITH 1 GPM CONDENSATE PUMP.

SPLIT SYSTEM CONDENSER SCHEDULE							
NAME	COOLING CAPACITY (MBH)	V/PH/HZ	MCA (A)	MOCP (A)	SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER
CONDENSER 1	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4
CONDENSER 1	152.5	460/3/60	27.1	35	91	499	JOHNSON CONTROLS J12YCC00A4JLA4

1. SPLIT SYSTEMS TO BE PROVIDED WITH SUPERVISORY CONTROLLER FOR LEAD LAG OPERATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

FAN SCHEDULE												
NAME	CONFIGURATION	AIRFLOW RATE (CFM)	ESP	TOTAL ESP	VOLTAGE	FEI	BHP	MOTOR HP	SOUND (dBA)	MANUFACTURER	MODEL NUMBER	COMMENTS
PUMP ROOM SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,100	1"	-	460/3	-	0.55	3/4	67	LOREN COOK	16CVR-S	1, 2
PUMP ROOM EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	1,200	1"	-	460/3	-	0.55	3/4	67	LOREN COOK	16CVR	1, 2
WET WELL SUPPLY FAN	TUBULAR CENTRIFUGAL ROOF TOP	600	0.5"	-	460/3	-	0.15	1/4	56	LOREN COOK	16CVR-S	1, 2
WET WELL EXHAUST FAN	TUBULAR CENTRIFUGAL ROOF TOP	660	0.5"	-	460/3	-	0.14	1/4	56	LOREN COOK	16CVR	1, 2

1. FANS TO BE PROVIDED WITH FACTORY OR FIELD DISCONNECT SWITCHES WITH LOCK OUT TAG OUT FEATURE. LOCK TO BE SUPPLIED BY CONTRACTOR.
2. FANS SHALL BE SPARK B RESISTANT CONSTRUCTION.



① AIRFLOW DIAGRAM
1/2" = 1'-0"



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

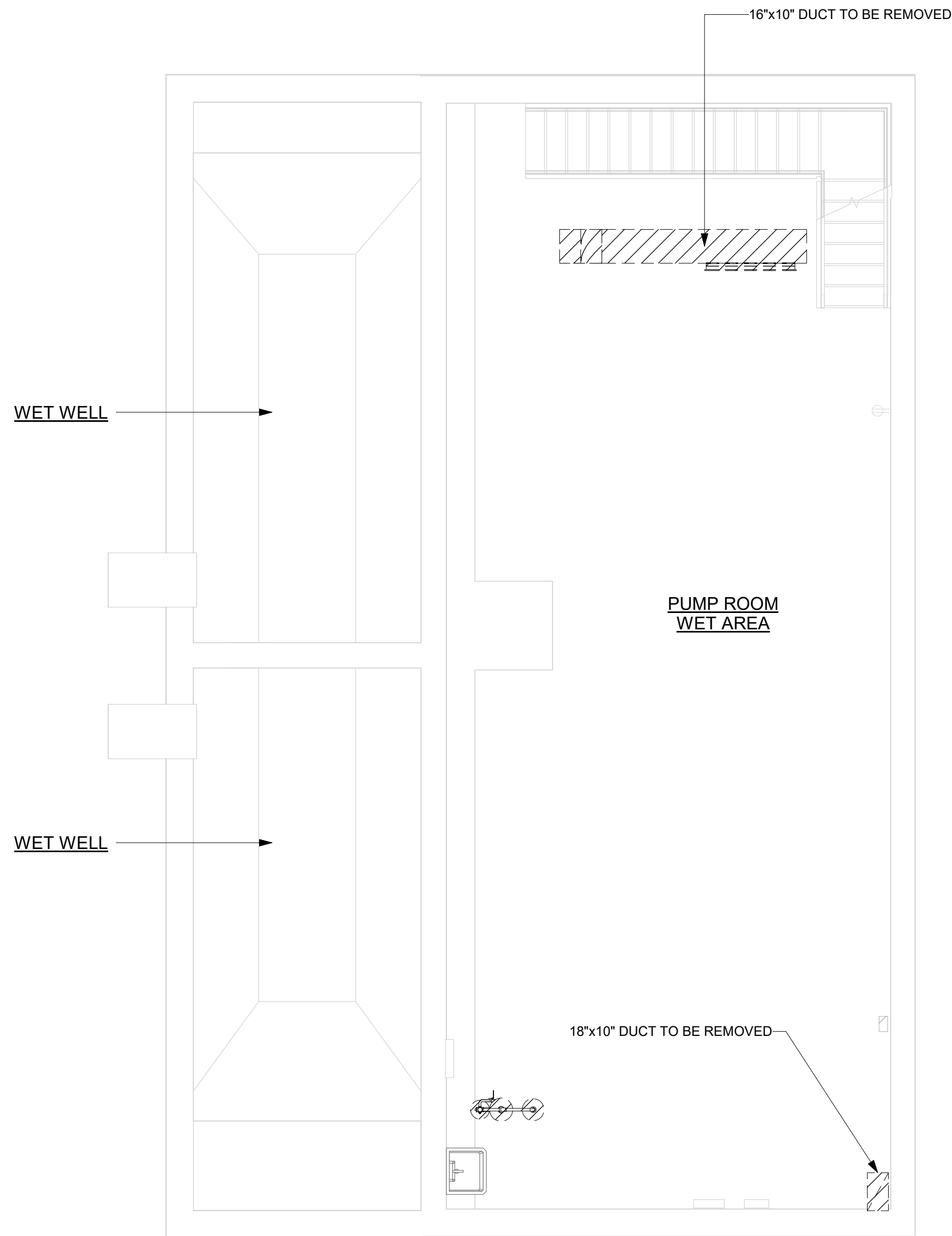
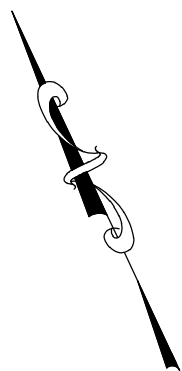
DRAWING TITLE: **TALLMAN PUMP STATION AIR FLOW DIAGRAMS, SCHEDULES**

DRAWINGS ISSUED FOR / REVISIONS

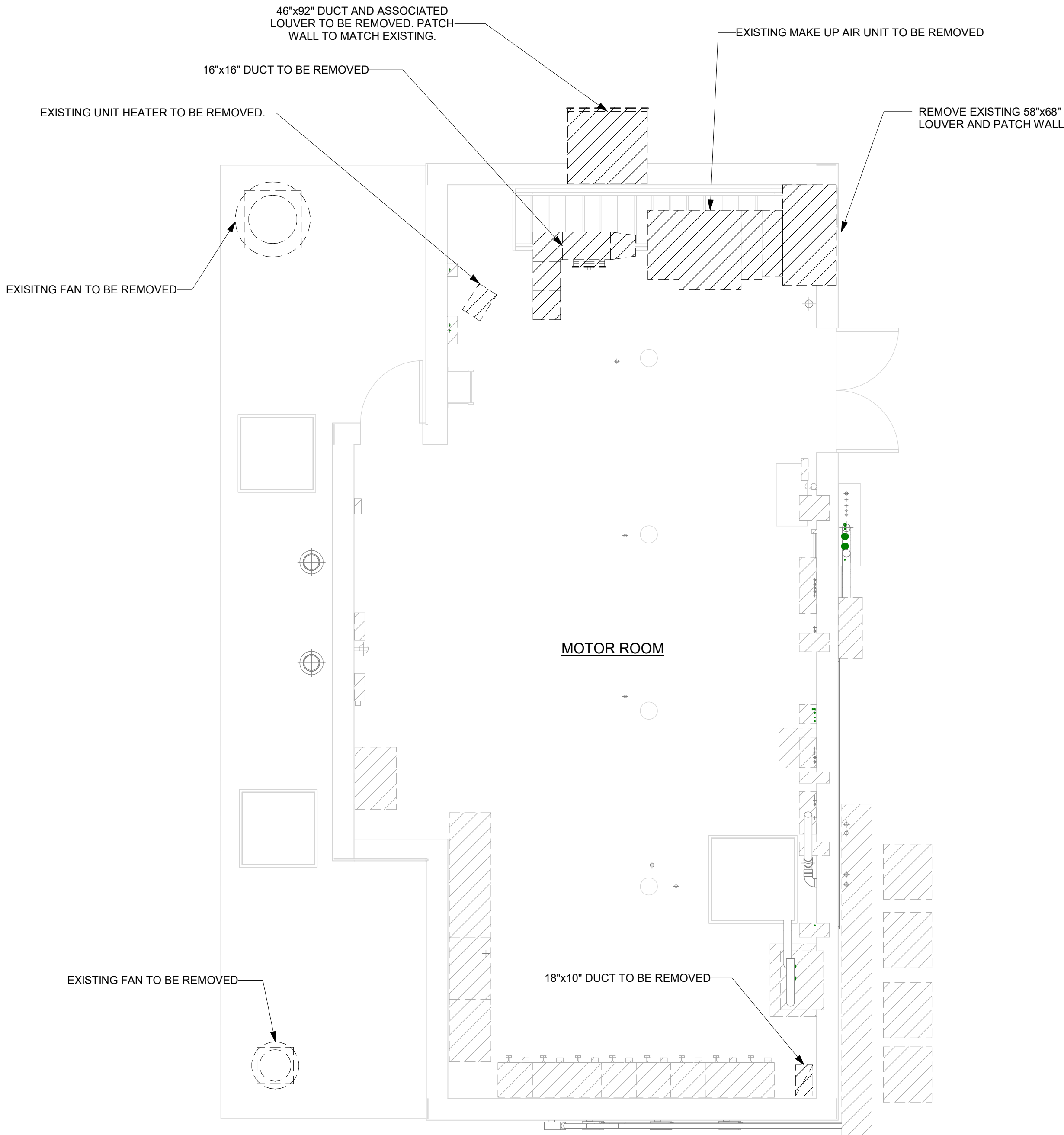
NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
1	04/22	60 PERCENT DESIGN REVIEW	MJL	JGD	GRL	06/2023
2	07/22	90 PERCENT DESIGN REVIEW	MJL	JGD	GRL	SCALE: As indicated
3	09/22	FOR REGULATORY REVIEW	MJL	JGD	GRL	DRAWN BY: J. ROSS
4	01/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	CHECKED BY: G. LYNCH
5	03/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL	DRAWING NUMBER:
6	06/23	FOR BID	MJL	JGD	GRL	H-201

CONTRACT # **RFB-RC-SWR-2022-06**

EDR JOB # **21213**



① HVAC LOWER LEVEL PLAN DEMOLITION
1/4" = 1'-0"



② HVAC GROUND FLOOR PLAN DEMOLITION
1/4" = 1'-0"

1/4"=1'-0" 0 4 8 FT.



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PROJECT TITLE: **UNION HILL AND TALLMAN AVE
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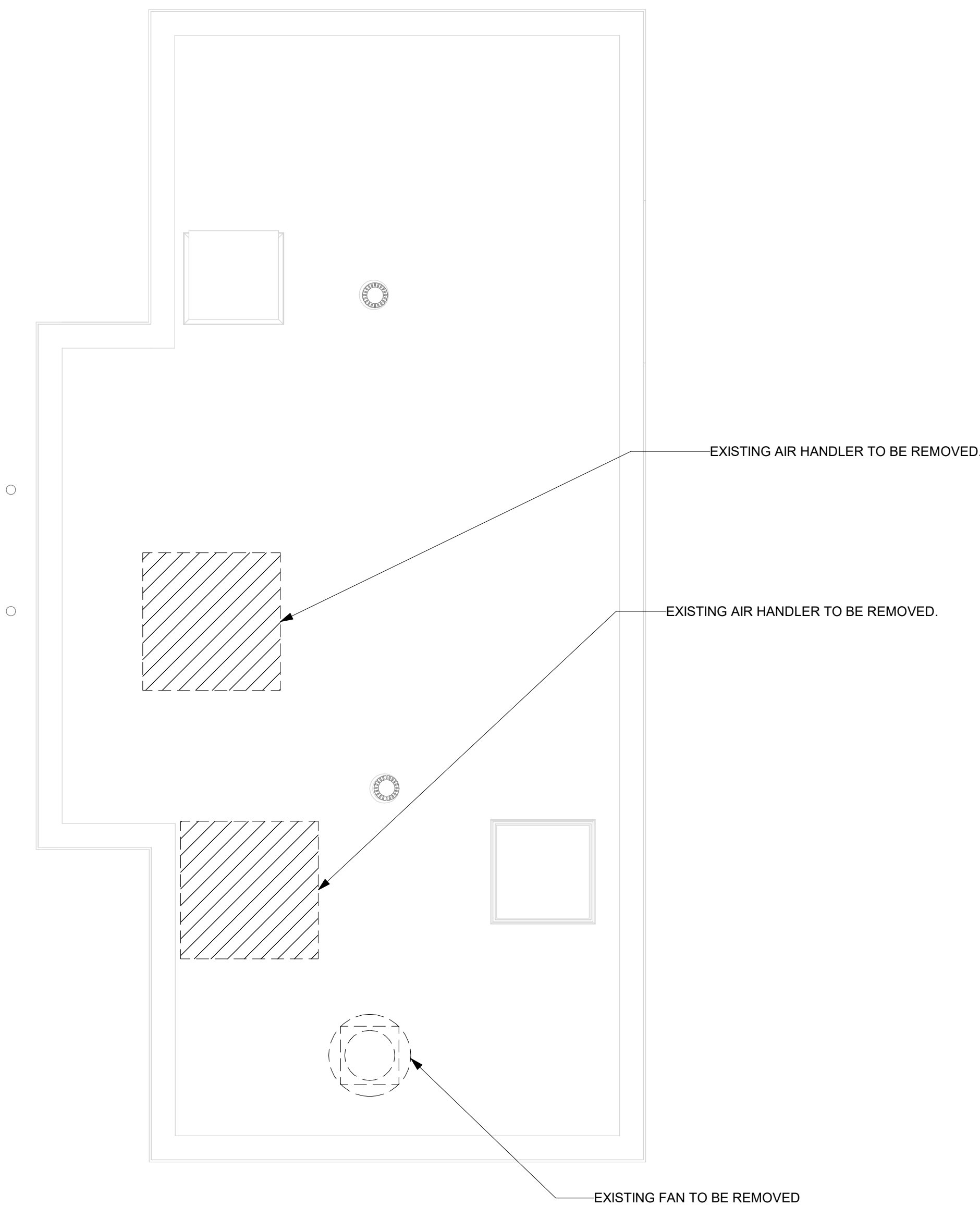
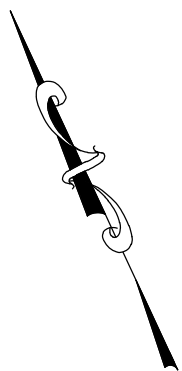
DRAWING TITLE: **TALLMAN PUMP STATION DEMOLITION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
1	04/22	60 PERCENT DESIGN REVIEW	MJL	JGD	GRL	06/2023
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CONTRACT # RFB-RC-SWR-2022-06

EDR JOB # 21213

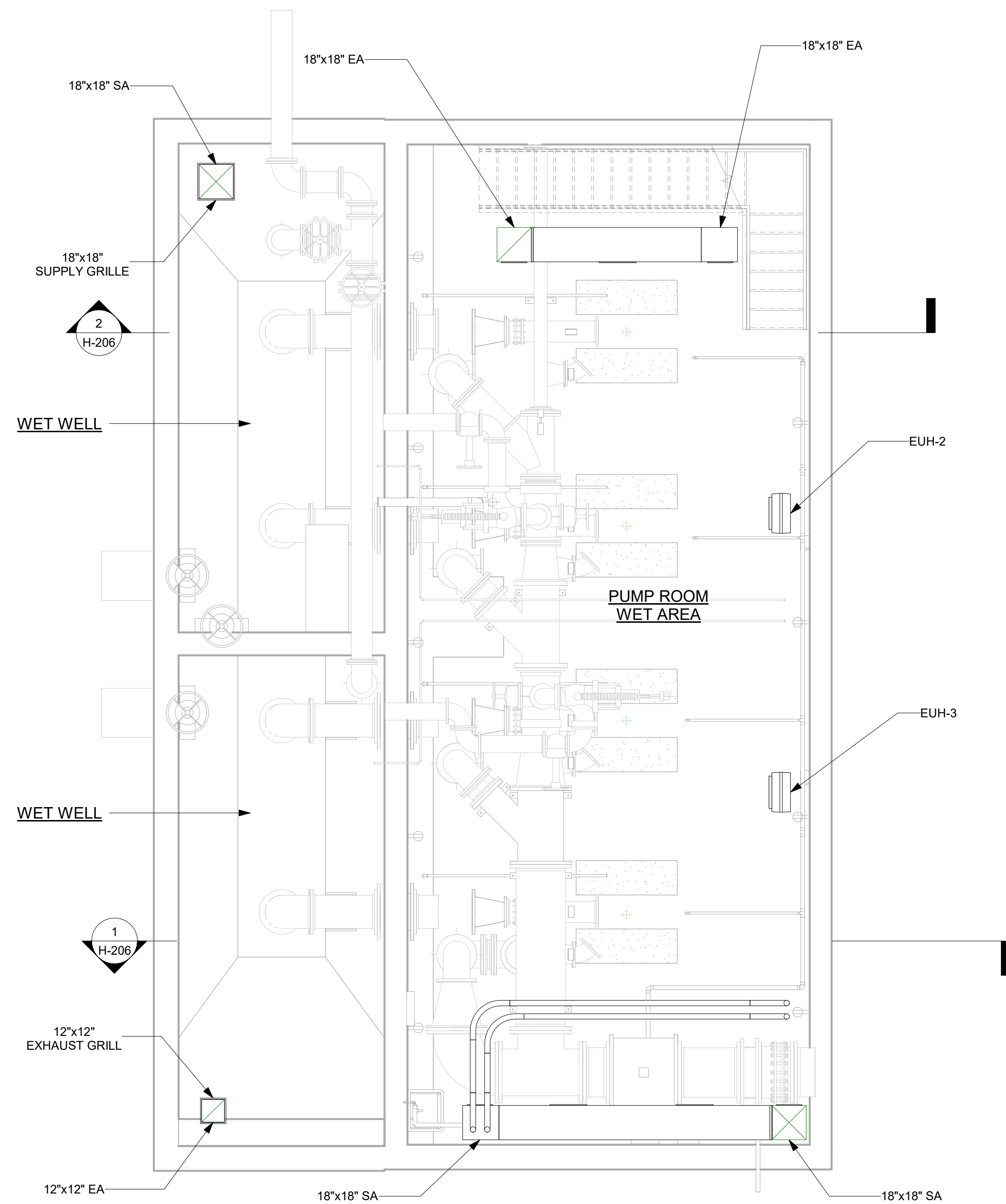
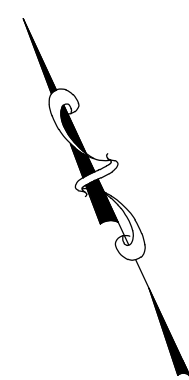


① HVAC ROOF PLAN DEMOLITION
1/4" = 1'-0"

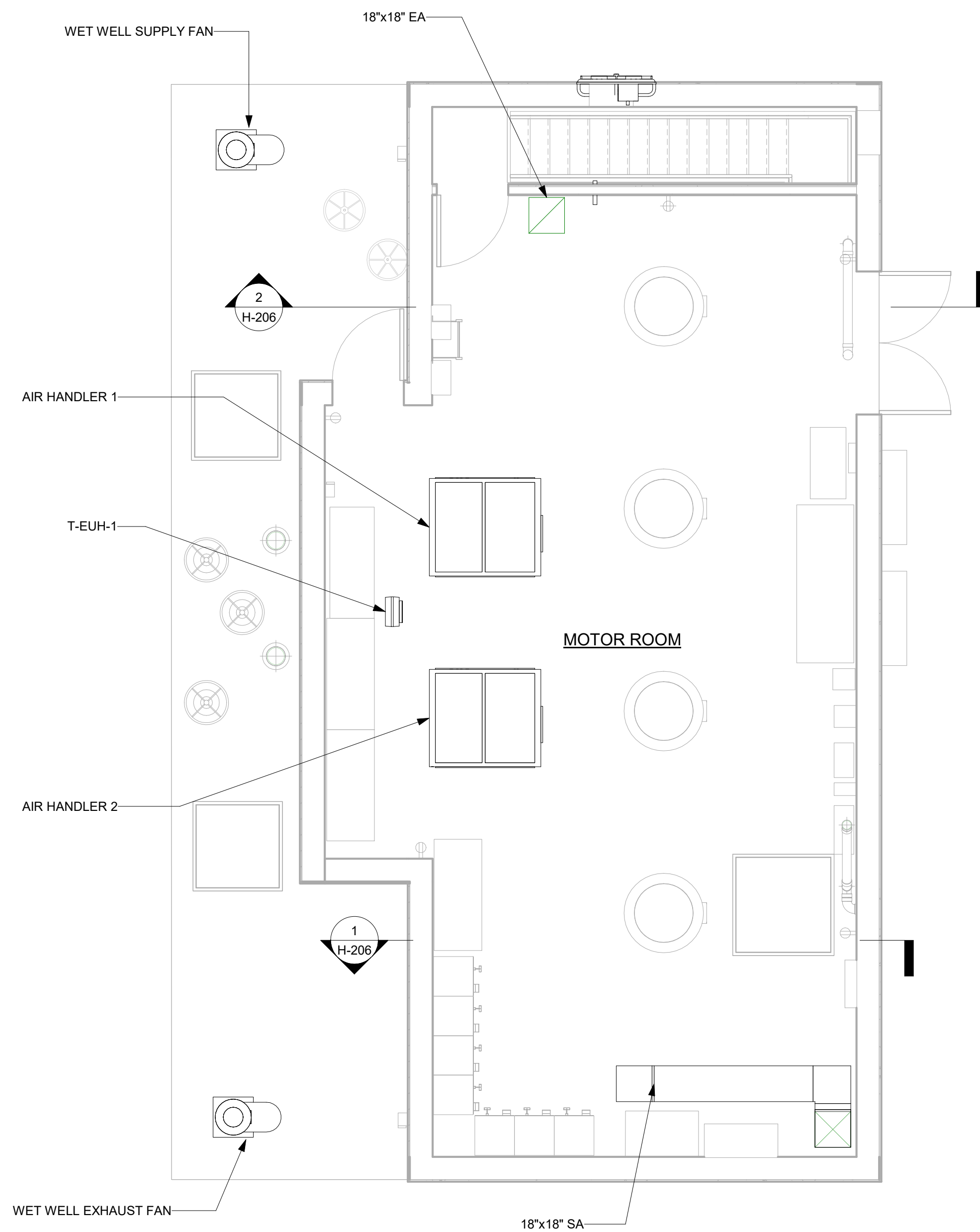


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				NO.	DATE	ISSUED FOR / REVISIONS			BY	CHK	APP	DATE: 06/2023
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK				1	04/22	60 PERCENT DESIGN REVIEW			MJL	JGD	GRL	SCALE: 1/4" = 1'-0"
CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1				2	07/22	90 PERCENT DESIGN REVIEW			MJL	JGD	GRL	DRAWN BY: J. ROSS
DRAWING TITLE: TALLMAN PUMP STATION DEMOLITION ROOF PLAN				3	09/22	FOR REGULATORY REVIEW			MJL	JGD	GRL	CHECKED BY: G. LYNCH
CONTRACT				4	01/23	100 PERCENT DESIGN REVIEW			MJL	JGD	GRL	DRAWING NUMBER:
				5	03/23	100 PERCENT DESIGN REVIEW			MJL	JGD	GRL	H-203
				6	06/23	FOR BID			MJL	JGD	GRL	



① HVAC LOWER LEVEL PLAN
1/4" = 1'-0"



② HVAC GROUND FLOOR PLAN
1/4" = 1'-0"



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PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

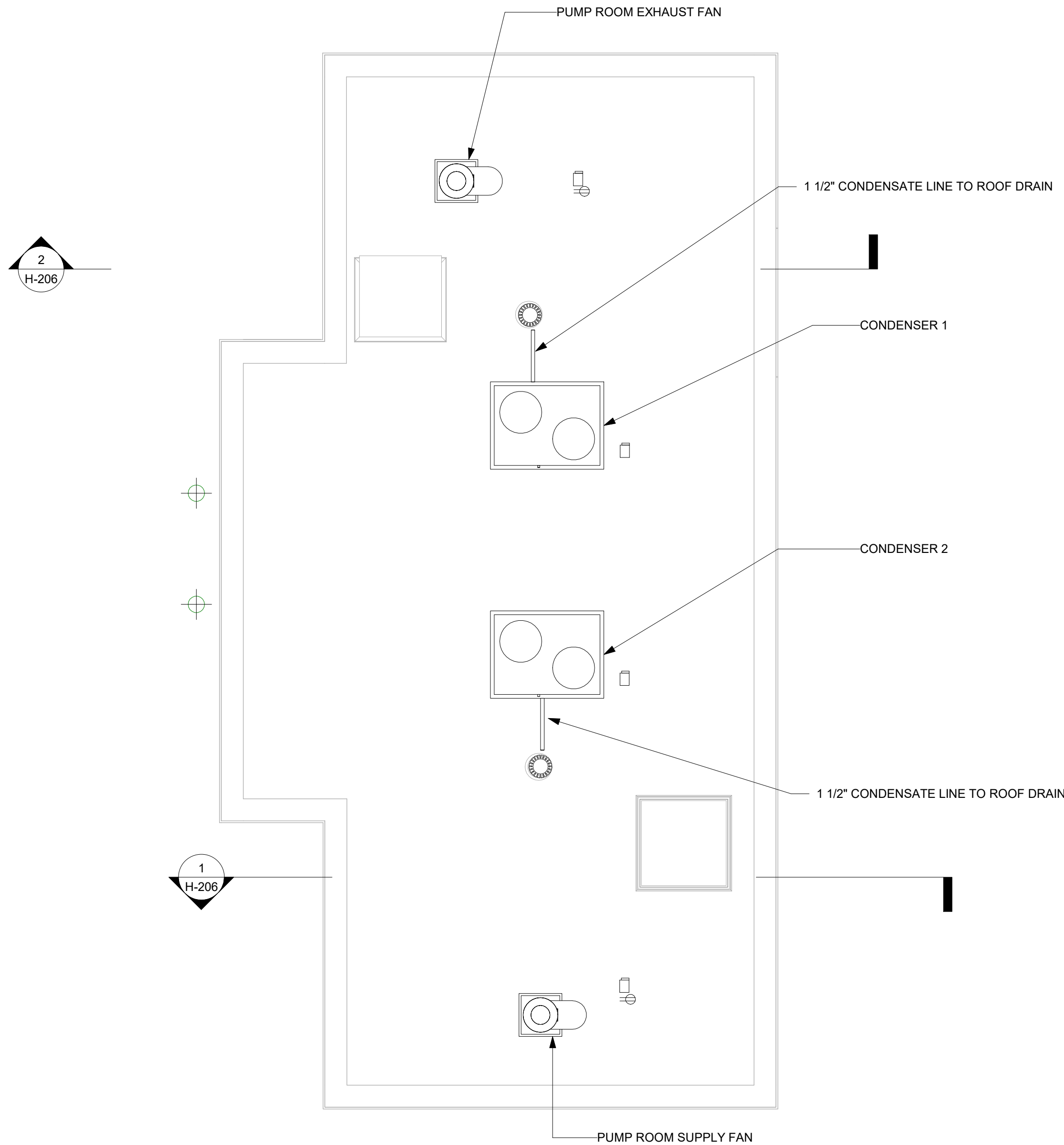
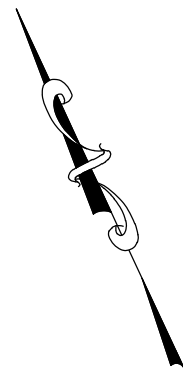
DRAWING TITLE: **TALLMAN PUMP STATION LOWER AND GROUND FLOOR PLANS**

DRAWINGS ISSUED FOR / REVISIONS

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6	06/23	FOR BID	MJL	JGD	GRL	H-204

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① HVAC ROOF PLAN
1/4" = 1'-0"



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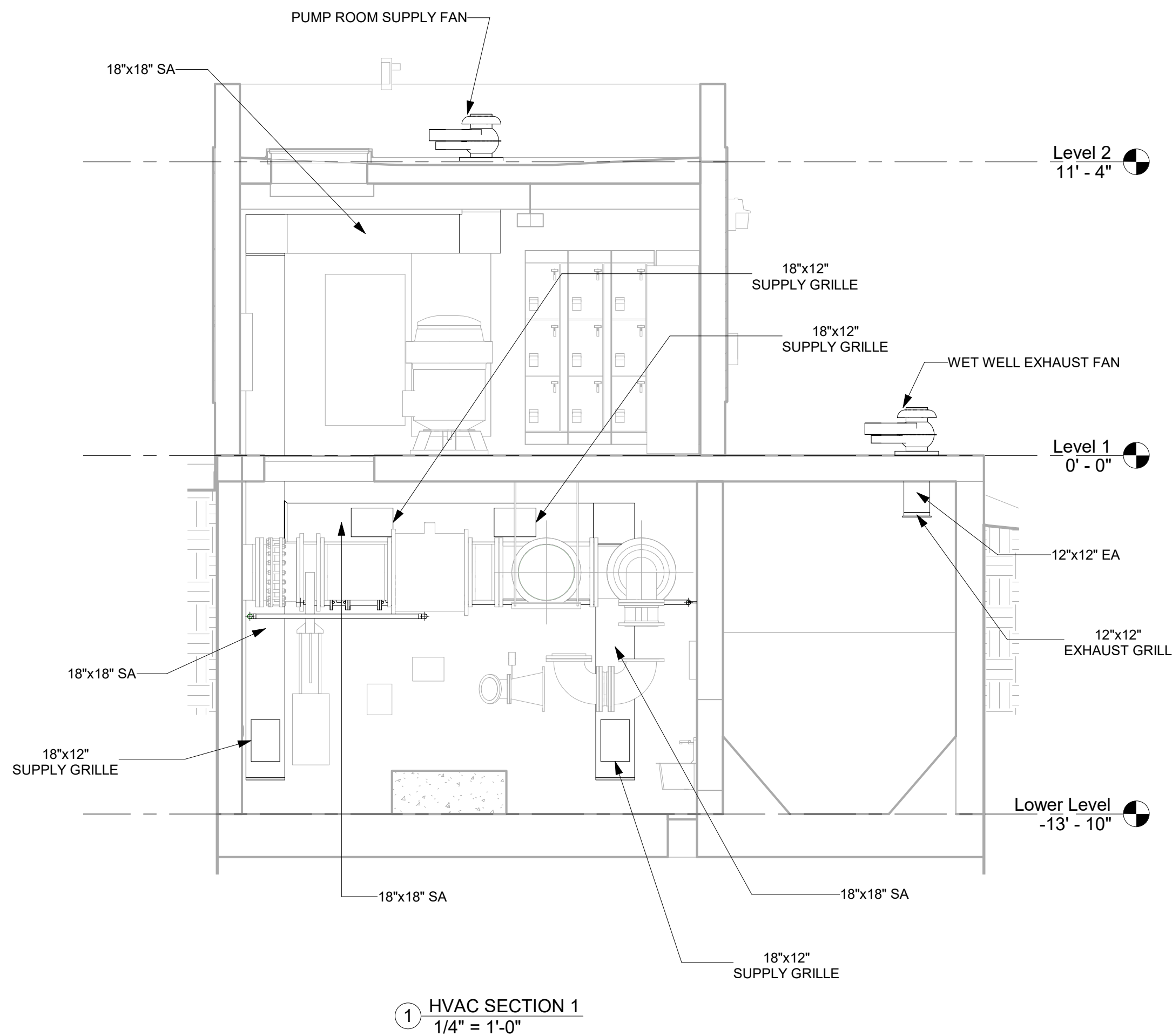
PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

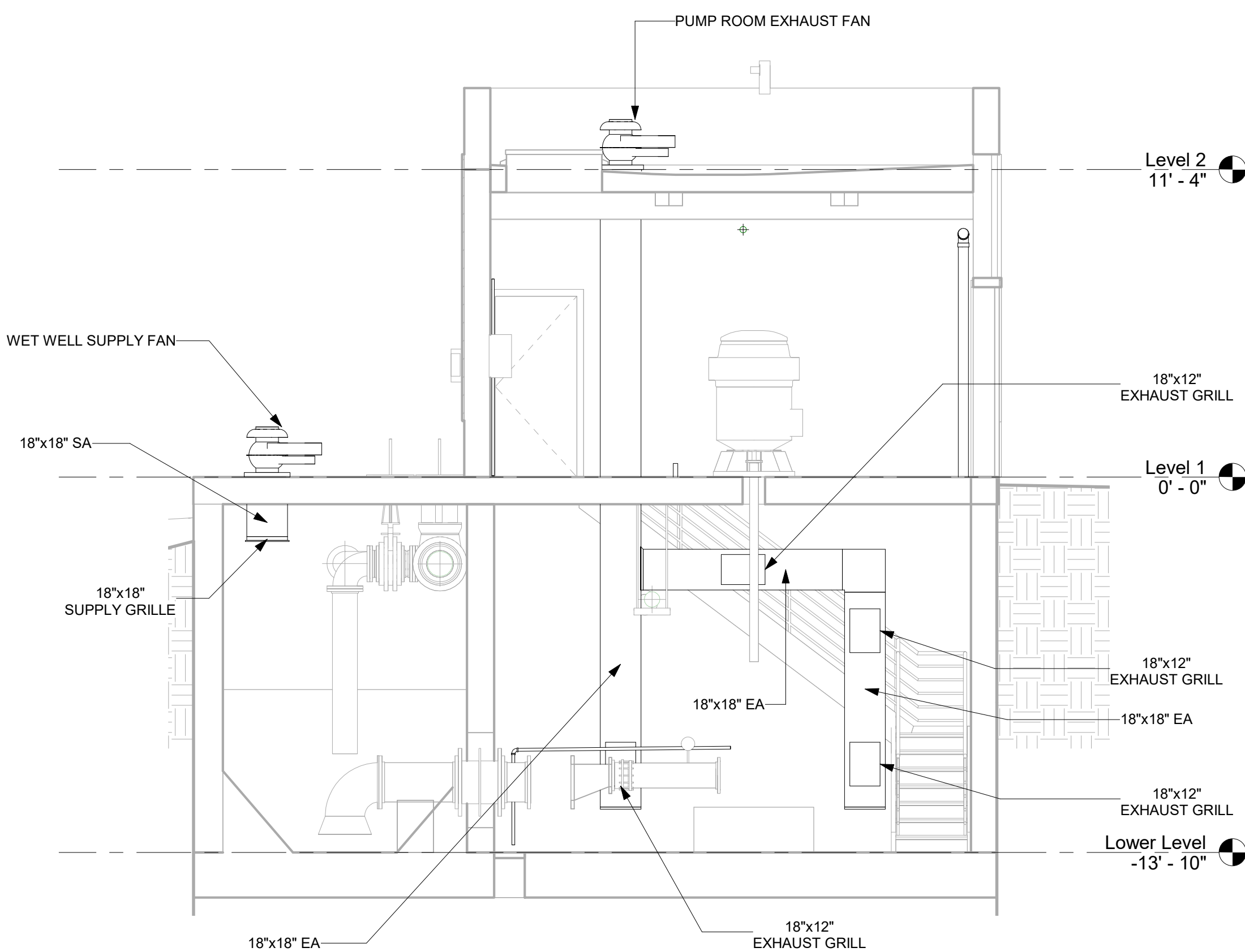
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5	03/23	100 PERCENT DESIGN REVIEW			MJL	JGD	GRL	
6	06/23	FOR BID			MJL	JGD	GRL	

NOTE:
1. SCADA WILL BE INTEGRATED INTO STATION CONTROL PANEL



① HVAC SECTION 1
1/4" = 1'-0"



② HVAC SECTION 2
1/4" = 1'-0"



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PUMP STATION UPGRADE**

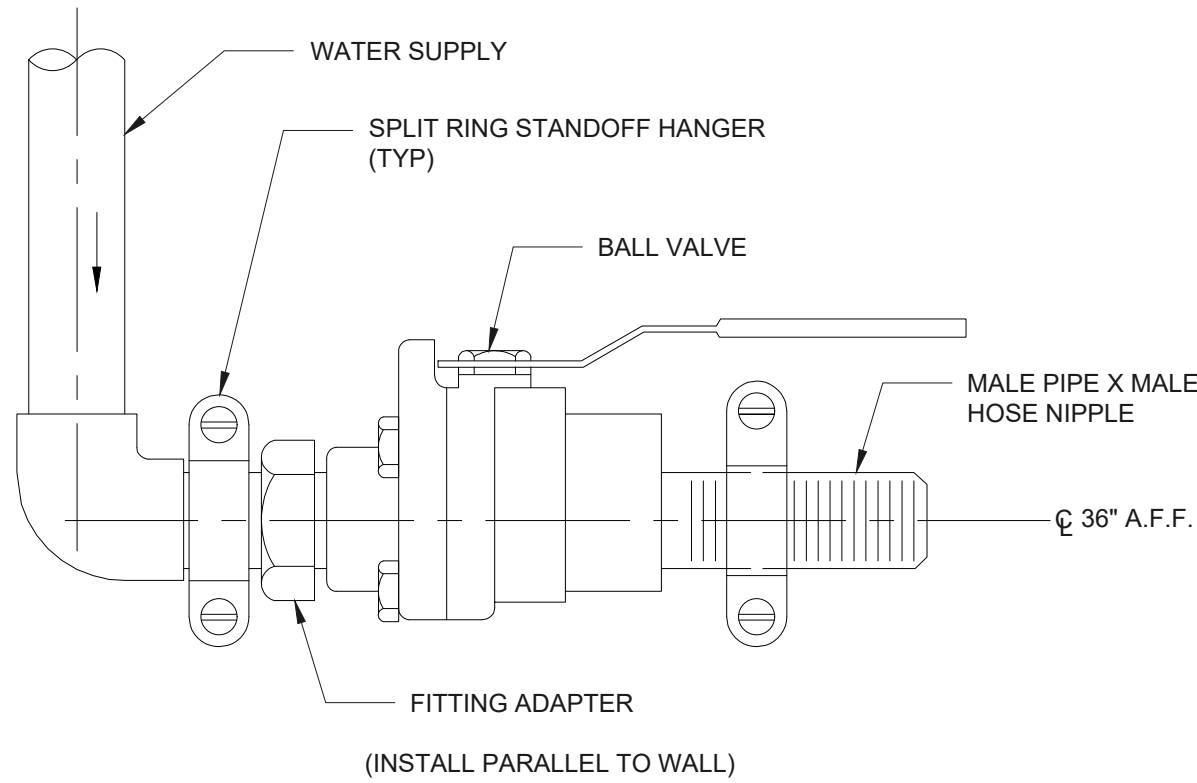
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CLIENT: ROCKLAND COUNTY SEWER DISTRICT No. 1

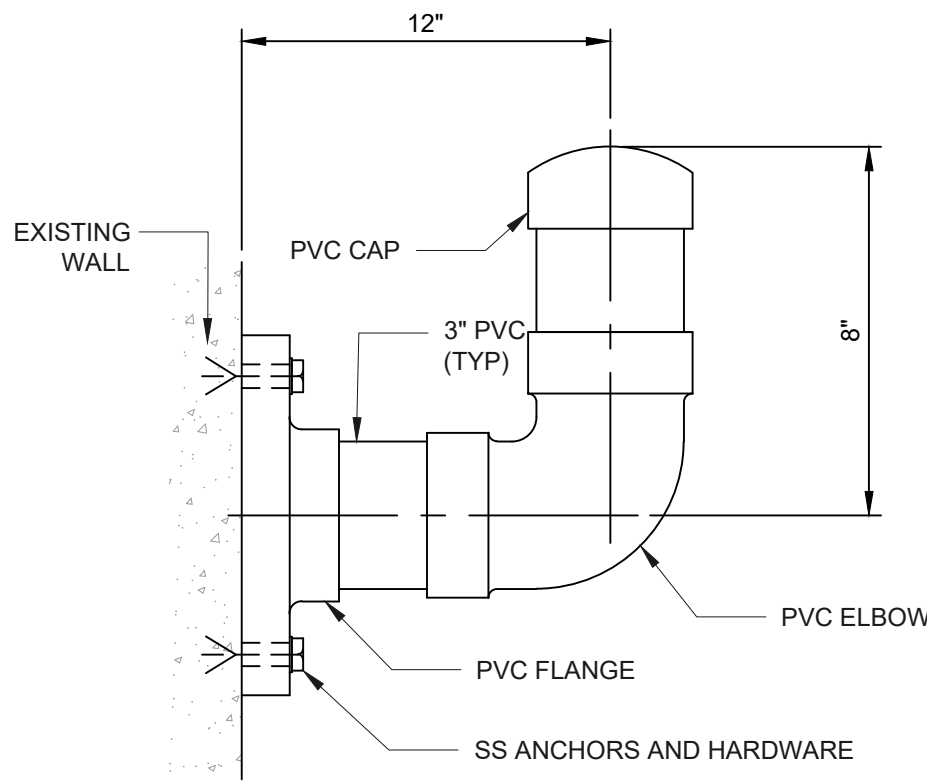
DRAWING TITLE: **TALLMAN PUMP STATION SECTIONS**

DRAWINGS ISSUED FOR / REVISIONS							CONTRACT # RFB-RC-SWR-2022-06	
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1	04/22	60 PERCENT DESIGN REVIEW	MJL	JGD	GRL	06/2023	SCALE: 1/4" = 1'-0"	
2	07/22	90 PERCENT DESIGN REVIEW	MJL	JGD	GRL		DRAWN BY: J. ROSS	
3	09/22	FOR REGULATORY REVIEW	MJL	JGD	GRL		CHECKED BY: G. LYNCH	
4	01/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL		DRAWING NUMBER:	
5	03/23	100 PERCENT DESIGN REVIEW	MJL	JGD	GRL		H-206	
6	06/23	FOR BID	MJL	JGD	GRL			

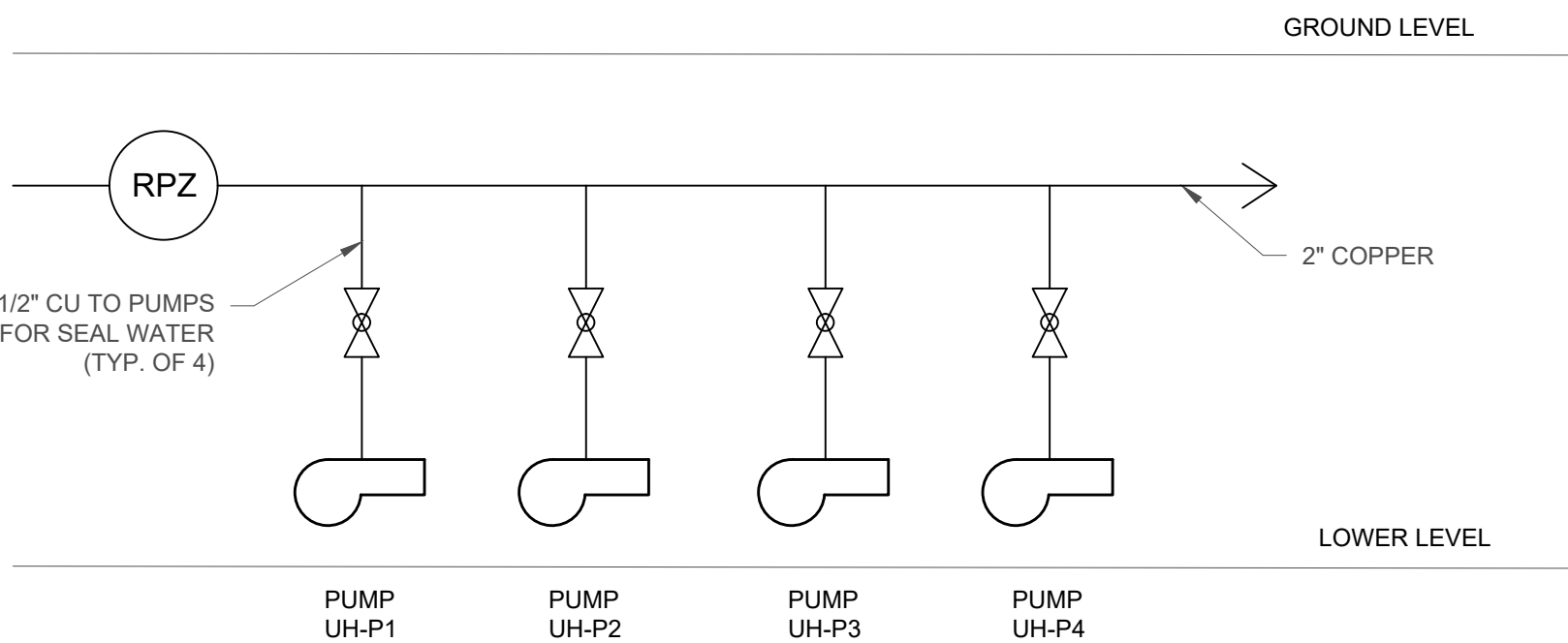
7/2/21 3 Rockland Union Hill and Tallman PWS (a) Working Drawings (General) 21213 P-001.dwg Date Printed: 01/16/2023 10:08:32 AM



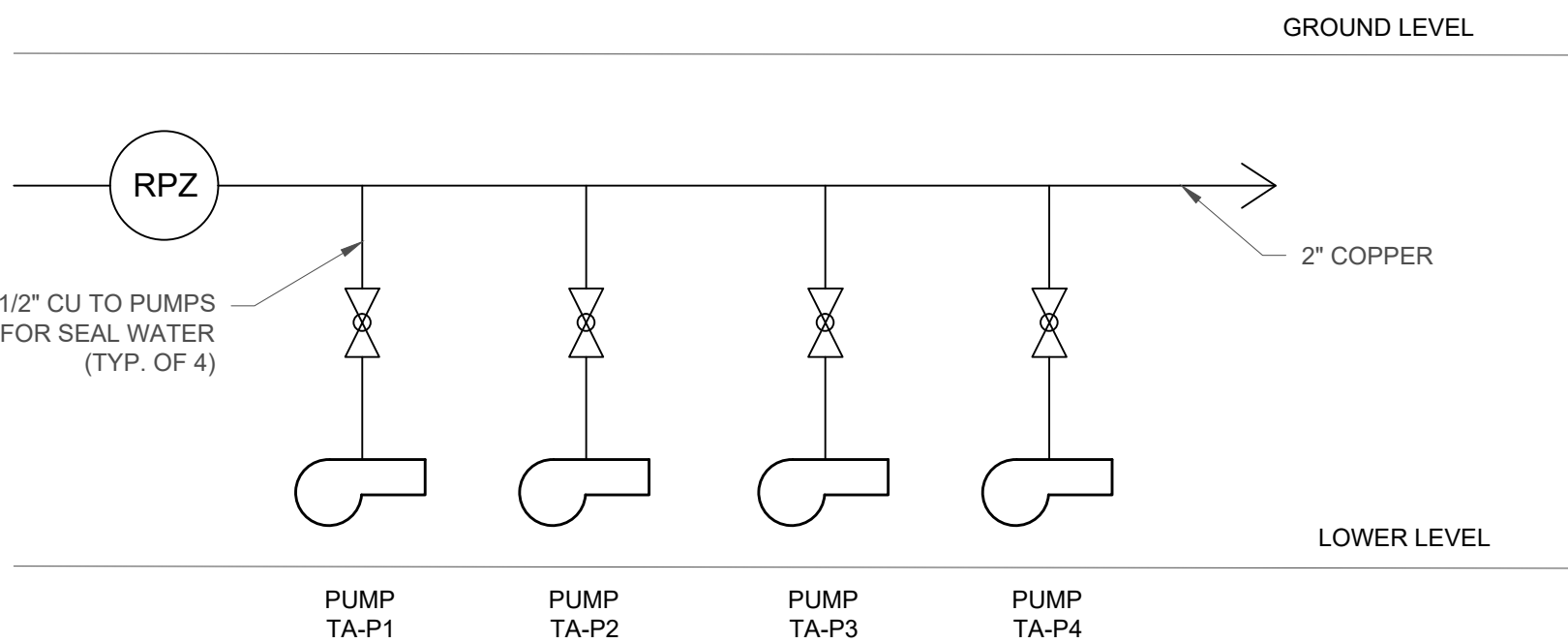
HOSE BIBB INSTALLATION
NOT TO SCALE



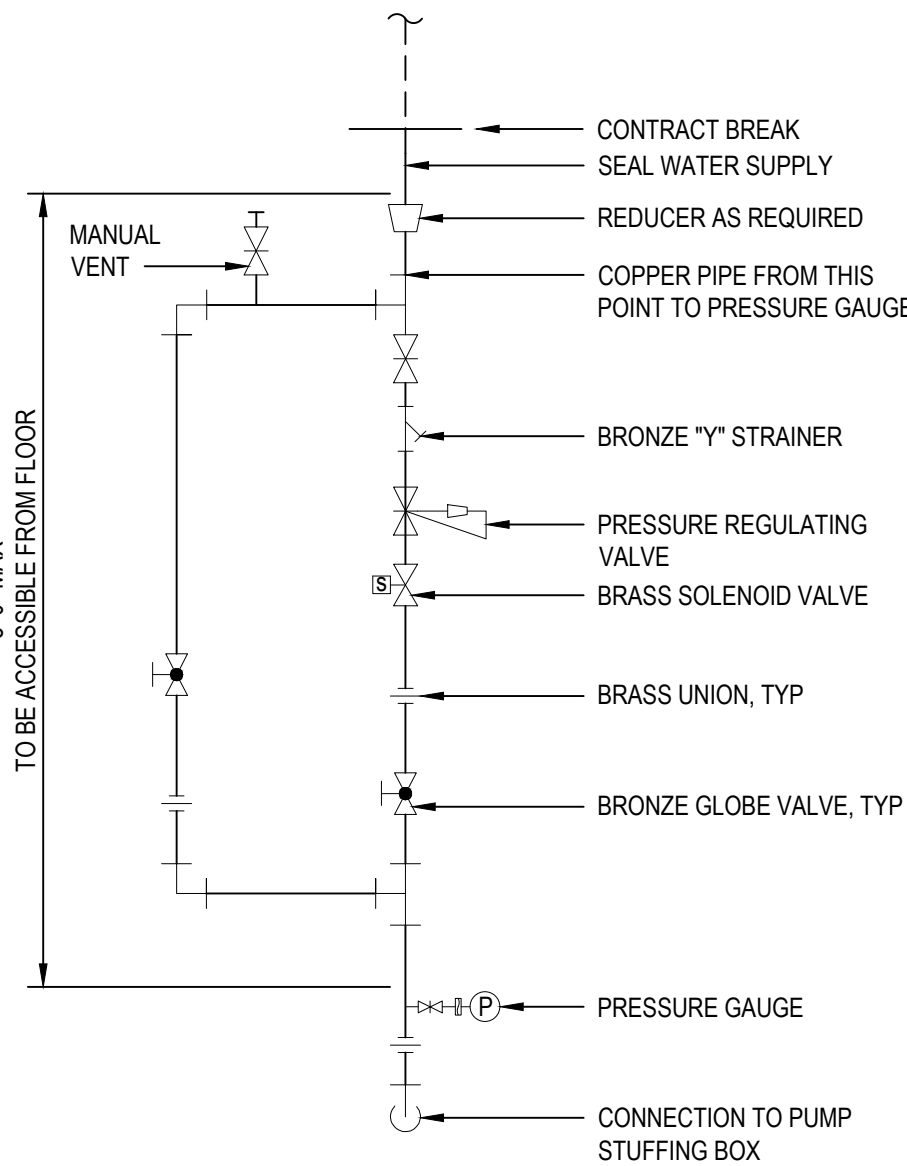
PVC HOSE RACK
NOT TO SCALE



SEAL WATER RISER DIAGRAM
NOT TO SCALE



SEAL WATER RISER DIAGRAM
NOT TO SCALE



SEAL WATER CONNECTION
NOT TO SCALE

- NOTES:
- DIAPHRAGM SEAL AT PRESSURE GAUGE NOT REQUIRED IF POTABLE WATER USED AS SEAL WATER SUPPLY
 - SEAL WATER PIPING DOWNSTREAM OF REDUCER SAME SIZE AS STUFFING BOX CONNECTION WITH MINIMUM 3/8" DIAMETER

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The following is paraphrased from the New York Education Law, Article 145, Section 7209, and Chapter II, Section 79-14, and applies to this drawing: "It is a violation of this law for any person unless he is acting under the direction of a licensed professional engineer, licensed landscape architect or licensed land surveyor to alter an item in any way, if an item bearing the seal of an engineer, landscape architect or land surveyor is altered, the altering engineer, landscape architect or land surveyor shall affix to the item his seal and the notation 'altered by' followed by his signature and the date of such alteration and a specific description of the alteration."



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PROJECT TITLE: **UNION HILL AND TALLMAN
PUMP STATION UPGRADE**
PROJECT LOCATION: **ROCKLAND COUNTY, NEW YORK**
CLIENT: **ROCKLAND COUNTY SEWER DISTRICT No 1**
DRAWING TITLE: **PLUMBING DETAILS**

DRAWINGS ISSUED FOR / REVISIONS						EDR JOB# 21213	
CONTRACT 1	NO.	DATE	ISSUED FOR / REVISION	BY	CHK	APP	DATE: 06/2023
	1	04/22	60 PERCENT DESIGN REVIEW	MJL			SCALE: AS SHOWN
	2	07/22	90 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWN BY: TJF
	3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	CHECKED BY:
	4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER:
	5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	P-001
	6	06/23	FOR BID	MJL	RRS	MET	

CONTRACT# RFB-RC-SWR-2022-06

EDR JOB# 21213

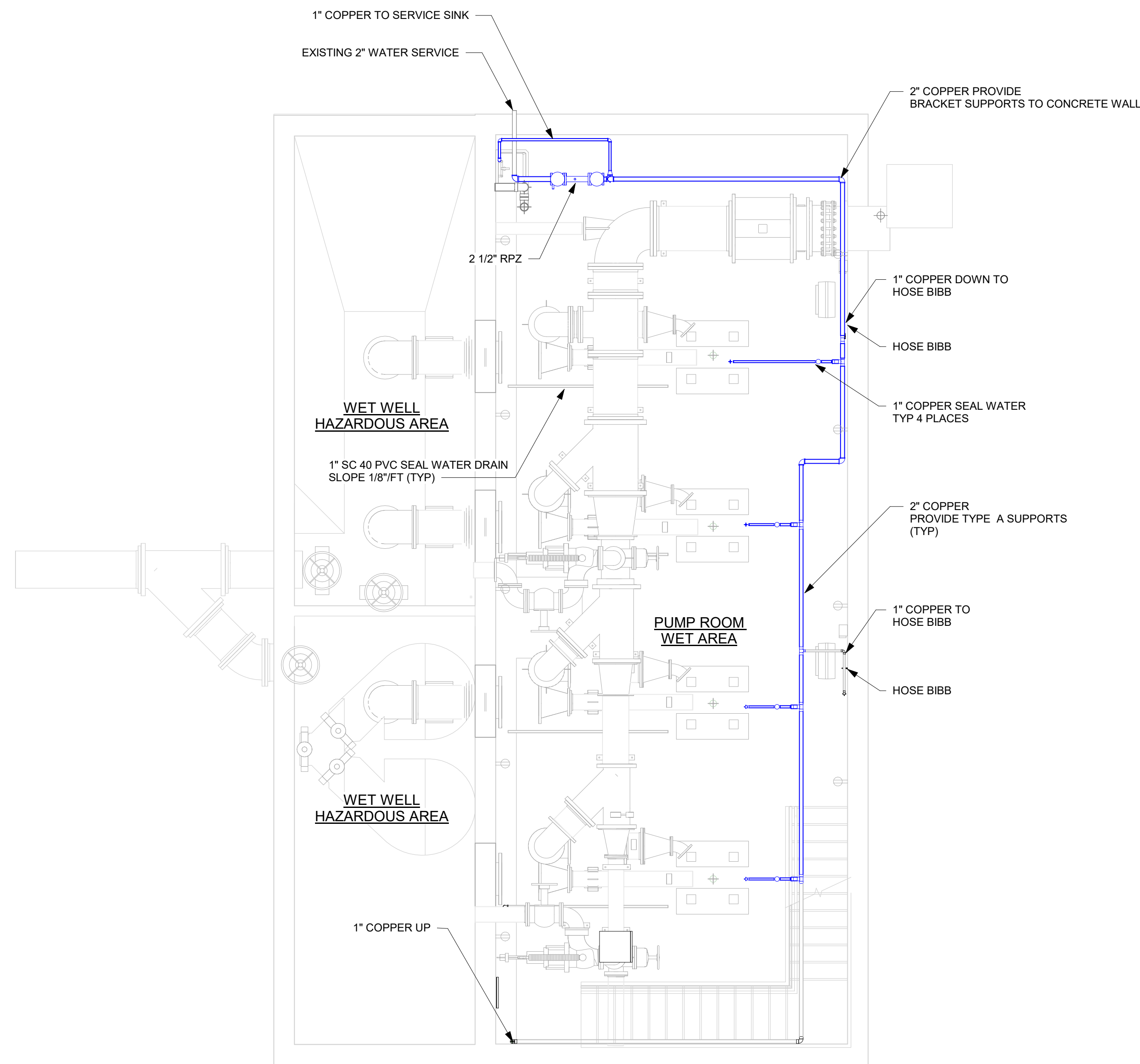
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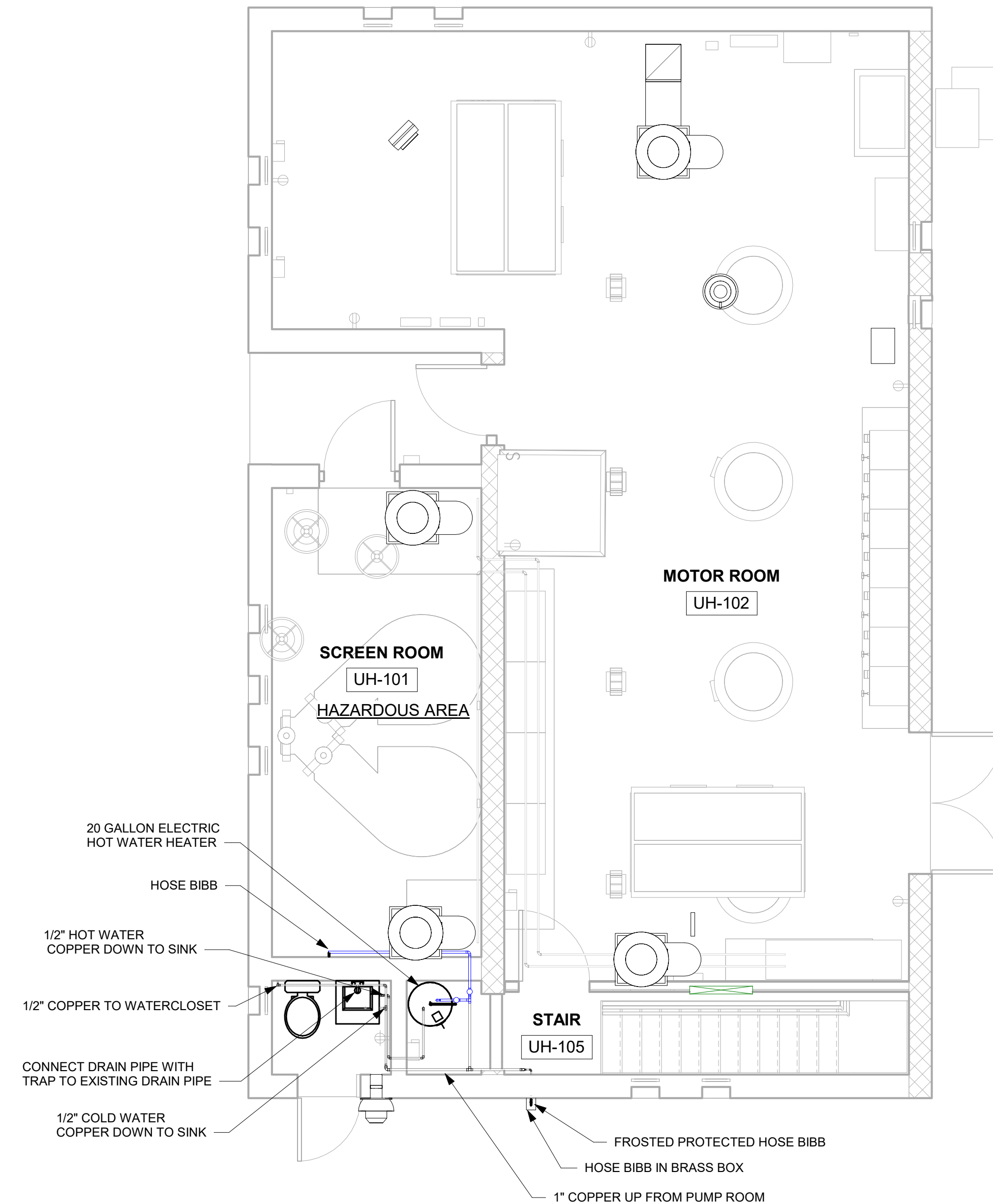
DRAWN BY: TJF

CHECKED BY:

DRAWING NUMBER:



① LOWER LEVEL PLAN - PLUMBING
1/4" = 1'-0"



② GROUND FLOOR - PLUMBING
1/4" = 1'-0"



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PROJECT TITLE: **UNION HILL PUMP AND TALLMAN
AVE PUMP STATION UPGRADE**

PROJECT LOCATION: ROCKLAND COUNTY, NEW YORK

CLIENT: ROCKLAND COUNTY SEWER DISTRICT NO 1

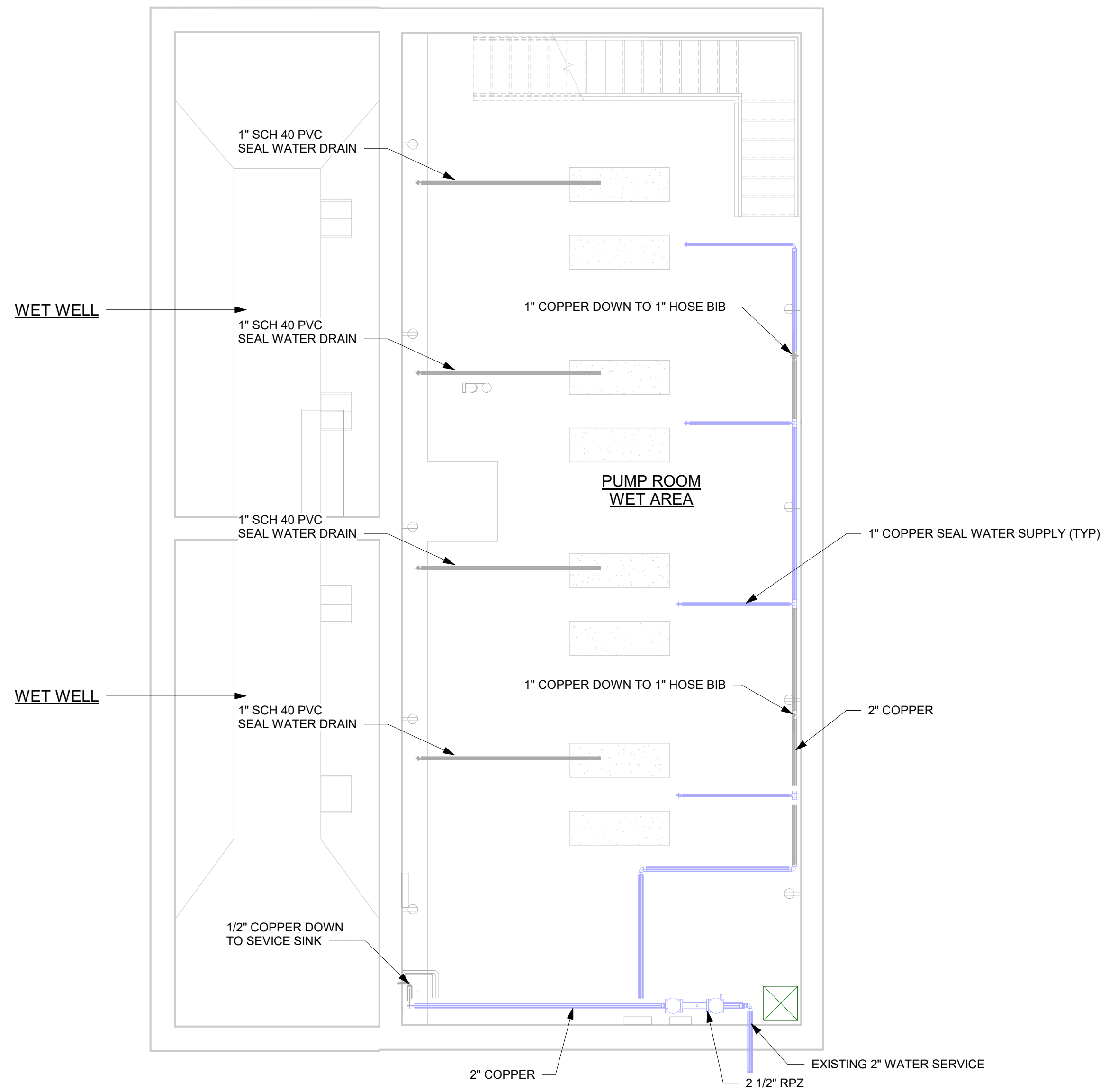
DRAWING TITLE: **UNION HILL PUMP STATION LOWER AND GROUND FLOOR PLANS PLUMBING**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISIONS	BY	CHK	APP	DATE
1	04/22	60 PERCENT DESIGN REVIEW	LSE	JGD	GRL	06/2023
2	07/22	90 PERCENT DESIGN REVIEW	LSE	JGD	GRL	SCALE: 1/4" = 1'-0"
3	09/22	FOR REGULATORY REVIEW	MJL	RRS	MET	DRAWN BY: MJL
4	01/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	CHECKED BY:
5	03/23	100 PERCENT DESIGN REVIEW	MJL	RRS	MET	DRAWING NUMBER:
6						

CONTRACT
1

CONTRACT # RFB-RC-SWR-2022-06
EDR JOB #: **21213**
DATE: **06/2023**
SCALE: 1/4" = 1'-0"
DRAWN BY: MJL
CHECKED BY:
DRAWING NUMBER:
P-101



① LOWER FLOOR - PLUMBING
1/4" = 1'-0"