

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MINIMUM SIZE				REMARKS	BASIS OF DESIGN
		DRAIN PLAN S	VENT PLAN S	CW	HW		
AT-1	ACID NEUTRALIZATION TANK	SEE PLAN S	SEE PLAN S	---	---	50-GAL ACID NEUTRALIZATION TANK CAPABLE OF 100 GAL/HR WITH 7 CUBIC FEET OF FILL. SEE DETAIL FOR MORE INFORMATION. USE ACID WASTE RATED PIPING FROM DRAINS TO TANK.	PARKUSA MODEL ANT50
ESS-1	EMERG. SAFETY STATION	---	---	---	1-1/4"	INSIDE EMERGENCY EYEWASH/SHOWER COMBINATION UNIT	GUARDIAN MODEL G1909
ESS-2	EMERG. SAFETY STATION	---	---	---	1-1/4"	EMERGENCY EYEWASH/SHOWER COMBINATION UNIT, WITH INTEGRAL HEAT TRACE AND INSULATION. EXTEND HEAT TRACING AND INSULATION TO COVER ALL EXPOSED EXTERIOR PIPING.	GUARDIAN MODEL GFR3110
EW-1	ELEC. WATER COOLER	1-1/2"	1-1/2"	1/2"	---	WALL-MOUNTED, BI-LEVEL (ADA), 120-VOLT, 20-AMP ELECTRIC WATER COOLER WITH 8 GPH CHILLING CAPACITY, FILTERED WITH VISUAL FILTER INDICATOR.	ELKAY MODEL LZSTL8WSLP
FCO-1	FLOOR CLEANOUT	SEE PLAN	---	---	---	FINISHED FLOOR CLEANOUT FOR MEDIUM DUTY TRAFFIC.	ZURN MODEL ZN1400
FCO-2	FLOOR CLEANOUT	SEE PLAN	---	---	---	EXTRA-HEAVY-DUTY ADJUSTABLE FLOOR CLEANOUT.	ZURN MODEL Z1400-NH
FD-1	FLOOR DRAIN	SEE PLAN	SEE PLAN	---	---	FLOOR DRAIN, TOILET ROOMS, CAST IRON W/ TRAP PRIMER CONNECTION, 6" ADJUSTABLE STRAINER.	JAY R. SMITH MODEL 2005-A-B-P050
FD-2	FLOOR DRAIN	SEE PLAN	SEE PLAN	---	---	FLOOR DRAIN EXTRA-HEAVY DUTY, MECHANICAL ROOMS, CAST IRON, 12" ROUND GRATE, WITH SEDIMENT BUCKET, AND MECHANICAL TRAP SEAL.	JAY R SMITH MODEL 2141-B JAY R SMITH TRAP SEAL MODEL 2692
FD-3	CATCH BASIN	4"	SEE PLAN	---	---	CATCH BASIN W/ HEAVY DUTY FRAME, CLASS F DUCTILE-IRON SLOTTED GRATE, AND SEDIMENT BUCKET.	ZURN MODEL Z887-24-HD
HB-1	HOSE BIBB	---	---	3/4"	---	HOSE BIBB WITH VACUUM BREAKER	WOODFORD BRASS MODEL 24C
HB-2	HOSE BIBB	---	---	3/4"	---	FREEZELESS ANIT-SIPHON WALL FAUCET.	WOODFORD BRASS MODEL 19C3
HD-1	HUB DRAIN	SEE PLAN	SEE PLAN	---	---	STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL TRAP SEAL.	CHARLOTTE PIPE PART NO. 102, JAY R SMITH TRAP SEAL MODEL 2692
HS-1	HOSE STATION	---	---	3/4"	3/4"	HOT AND COLD WATER HOSE STATION WITH TEMPERATURE GAUGE, 50FT OF HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN.	T&S BRASS MODEL MV-0771-12CW
L-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR, AND GRID STRAINER.	ZURN MODEL Z5320 ZURN FAUCET MODEL Z6915-XL
L-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	LAVATORY, UNDER-COUNTER-MTD, 19"x16", WHITE, WITH OVERFLOW, BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR, AND GRID STRAINER.	ZURN MODEL Z5220 ZURN FAUCET MODEL Z6915-XL
MV-1	MIXING VALVE	---	---	1"	1"	1" THERMOSTATIC MASTER MIXING VALVE. VALVE SHALL BE LEAD-FREE, ASSE 1070 LISTED, AND MEET THE REQUIREMENTS OF NSF/ANSI 61-9. SET OUTLET TEMP. TO 115 F.	ZURN-WILKINS MODEL ZW1070XL
MV-2	TEMPERING VALVE	---	---	1"	1"	THERMOSTATIC MIXING VALVE SET TO DELIVER UP TO 34 GAL AT 70°F TO ESS-1 VALVE SHALL BE ASSE 1071 CERTIFIED, AND MEET LOW-LEAD REQUIREMENTS.	GUARDIAN MODEL G3700LF
RD-1	ROOF DRAIN	SEE PLAN	---	---	---	COMBINED LARGE SUMP ROOF DRAIN WITH SECONDARY OVERFLOW, MEMBRANE CLAMP RINGS, INTEGRAL GRAVEL STOP, 15-IN LACQUERED CAST IRON ROOF DRAIN BODIES, OVERFLOW STANDPIPE, AND 24-IN BY 42-IN GALVANIZED SUMP RECEIVER.	MIFAB MODEL R1960
RD-2	DOWNSPOUT NOZZLE	SEE PLAN	---	---	---	DOWNSPOUT NOZZLE WITH PERFORATED BIRD SCREEN COVER.	MIFAB MODEL R1960
S-1	MOP SINK	2"	1-1/2"	1/2"	1/2"	32"x32" TERRAZO CORNER MOP SINK WITH WALL GUARDS, 8" CENTER WALL MTD LEVER HANDLE FAUCET WITH VACUUM BREAKER, CHECK STOPS, WALL HOOK, AND 5 FT OF VINYL HOSE.	FIAT MODEL TSBC6011 ZURN FAUCET MODEL Z843M1-XL
S-2	UTILITY SINK	2"	1-1/2"	1/2"	1/2"	FLOOR MTD, STAINLESS STEEL, LEVER HANDLE FAUCET WITH HOSE THREADED SPOUT.	SANLAV MODEL U2424F
TD-1	TRENCH DRAIN	SEE PLAN	SEE PLAN	---	---	ACID WASTE 4-INCH WIDE PRE-SLOPED TRENCH DRAIN WITH CLASS E DUCTILE IRON INDEPENDENTLY ANCHORED FRAME AND SLOTTED GRATE, ANDE 2900 SERIES CATCH BASIN WITH GALVANIZED STEEL TRASH BUCKET.	ABT POLYDRAIN SERIES PD-2512AF GRATE & FRAME ASTM A536 GRADE 80-55-06
TP-1	TRAP PRIMER	1/2"	---	---	---	WATER CLOSET FLUSH VALVE VACUUM BREAKER TRAP PRIMER	SLOAN MODEL VBF-72-A
TP-2	TRAP PRIMER	1/2"	---	---	---	WALL CLOSET, WALL-MTD, WHITE, ELONGATED, WITH ANTIMICROBIAL-GLAZE, BATTERY-OPERATED-SENSOR 1.1 GPF FLUSH VALVE, AND OPEN-FRONT LID-LESS WHITE SEAT.	ZURN MODEL Z5615-BWL-AM SLOAN VALVE MODEL SOLIS 8111 ZURN SEAT MODEL Z596SS-EL
WC-1	WATER CLOSET	4"	2"	1"	---	WALL CLOSET, WALL-MTD, WHITE, ELONGATED, WITH ANTIMICROBIAL-GLAZE, BATTERY-OPERATED-SENSOR 1.1 GPF FLUSH VALVE, AND OPEN-FRONT LID-LESS WHITE SEAT.	ZURN MODEL Z5615-BWL-AM SLOAN VALVE MODEL SOLIS 8111 ZURN SEAT MODEL Z596SS-EL
WH-1	WALL HYDRANT	---	---	3/4"	---	FREEZELESS WALL HYDRANT WITH INTEGRAL ANIT-SIPHON DEVICE IN ROUND RECESSED BOX.	WOODFORD BRASS RB65
WH-2	ROOF HYDRANT	---	---	3/4"	---	FREEZELESS SANITARY ROOF HYDRANT WITH VACUUM BREAKER, AND NO DRAIN REQUIRED.	WOODFORD BRASS MODEL SRH-MS

APPROVED EQUALS: EQUALITY SHALL BE DETERMINED BY ARCH/ENG IN SUBMITTAL PROCESS.

- NOTES:
1. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
 2. ALL FIXTURES TO BE WHITE UNLESS INDICATED OTHERWISE.
 3. ALL SINKS AND LAVATORIES USED BY HANDICAPPED SHALL HAVE ALL SUPPLY PIPING AND P-TRAPS INSULATED PER ADA REQUIREMENTS.
 4. PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS.
 5. PROVIDE CHROME-PLATED 1/4 TURN BALL STOPS AND WATER SUPPLY LINES FOR LAVATORIES AND SINKS WHERE SINK IS NOT HARD PIPED. SHUT-OFF SHALL BE UPC CERTIFIED AND IAPMO LISTED TO ASME A112.18.1. WATER SUPPLIES SHALL BE UPC CERTIFIED AND IAPMO LISTED TO ASME A112.18.6, NSF/ANSI 372, AND NSF/ANSI 61.

ELECTRIC WATER HEATERS

TAG	MANUFACTURER	MODEL	AREA SERVED	STORAGE (GAL)	RECOVERY CAPACITY @ 100°F RISE	PEAK DEMAND (GPH)	SUPPLY TEMP (°F)	NUMBER OF ELEMENTS	TOTAL KW	ELECTRICAL		NOTES
										V	PH	
EWH-1	A.O. SMITH	DEN-120	UNIT #1	120	49	90	140	2	12.0	480	3	1, 2, 3, 4
EWH-2	A.O. SMITH	DEN-120	UNIT #2	120	49	90	140	2	12.0	480	3	1, 2, 3, 4
EWH-3	A.O. SMITH	DEN-120	UNIT #3	120	49	90	140	2	12.0	480	3	1, 2, 3, 4
EWH-4	A.O. SMITH	DEN-120	UNIT #4	120	49	90	140	2	12.0	480	3	1, 2, 3, 4

EQUAL PRODUCTS BY: BRADFORD WHITE, RHEEM, STATE

- NOTES:
1. COORDINATE ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
 2. PROVIDE 4-IN HOUSEKEEPING PAD.
 3. SIZE AND PROVIDE EXPANSION TANK FOR WATER HEATER PER LOCAL CODES AND AMENDMENTS.
 4. PROVIDE EXPANSION TANK AND SUPPORT THE TANK INDEPENDENTLY FROM PIPE.

INSTANTANEOUS ELECTRIC WATER HEATERS

TAG	MANUFACTURER	MODEL	AREA SERVED	PEAK DEMAND (GPM)	TEMP RISE @ 23 GPM (°F)	SUPPLY TEMP (°F)	TOTAL KW	ELECTRICAL		NOTES
								V	PH	
IWH-1	EEMAX	AP072490 EFD-N4X	REFRIG. SKID		21	70	72	480	3	1, 2, 3, 4

EQUAL PRODUCTS BY: A.O. SMITH, STATE, RHEEM

- NOTES:
1. COORDINATE ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
 2. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND LOCAL CODES.
 3. PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS.
 4. SET WATER HEATER OUTPUT TEMPERATURE TO 70°F.

DOMESTIC WATER PUMPS

TAG	MANUFACTURER	MODEL	AREA SERVED	TYPE	GPM	HEAD (FT)	RPM	HP	ELECTRICAL		NOTES
									V	PH	
CP-1	TACO	008 SERIES	UNIT #1	IN-LINE	5	10	3250	1/25	120	1	1, 2, 3, 4
CP-2	TACO	008 SERIES	UNIT #2	IN-LINE	5	10	3250	1/25	120	1	1, 2, 3, 4
CP-3	TACO	008 SERIES	UNIT #3	IN-LINE	5	10	3250	1/25	120	1	1, 2, 3, 4
CP-4	TACO	008 SERIES	UNIT #4	IN-LINE	5	10	3250	1/25	120	1	1, 2, 3, 4
CP-5	TACO	008 SERIES	REFRIG. SKID	IN-LINE	5	10	3250	1/25	120	1	1, 2, 5, 6

EQUAL PRODUCTS BY: GRUNDFOS, ARMSTRONG, BELL & GOSSETT

- NOTES:
1. COORDINATE ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
 2. PROVIDE AND INSTALL AQUASTAT WITH TIMER AND REQUIRED ACCESSORIES.
 3. PROVIDE BYPASS AROUND PUMP WITH SHUT-OFF IN NORMALLY CLOSED POSITION.
 4. SET AQUASTAT FOR 'ON' AT 100°F AND 'OFF' AT 115°F. SET TIMER FOR OWNER'S NORMAL OPERATION HOURS.
 5. SET AQUASTAT FOR 'ON' AT 60°F AND 'OFF' AT 70°F. SET TIMER FOR OWNER'S NORMAL OPERATION HOURS.
 6. INSTALL PUMP IN ACCORDANCE WITH EEMAX SINGLE HEATER IN RECIRCULATION LOOP PIPING DIAGRAM.

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title
**PLUMBING
SCHEDULES**

sheet
P0.2

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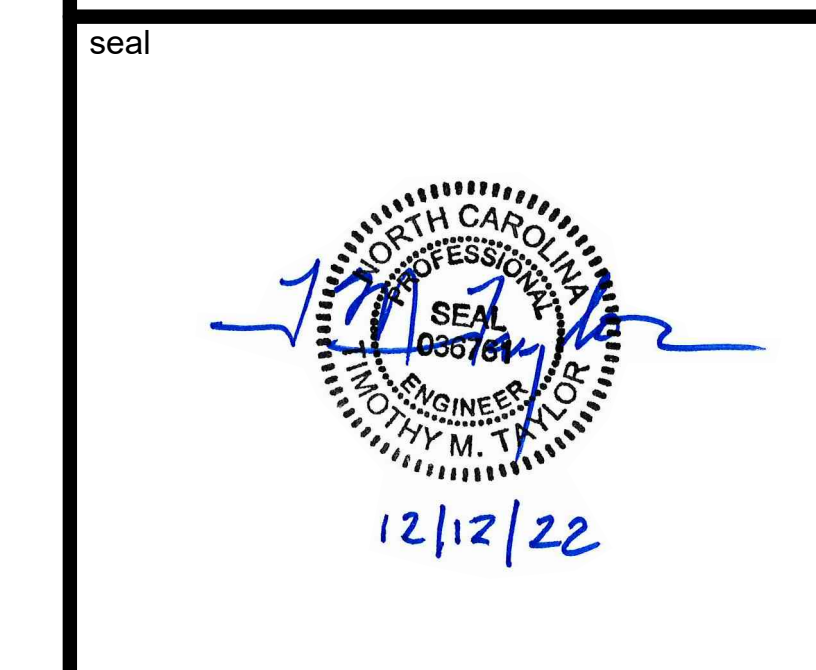
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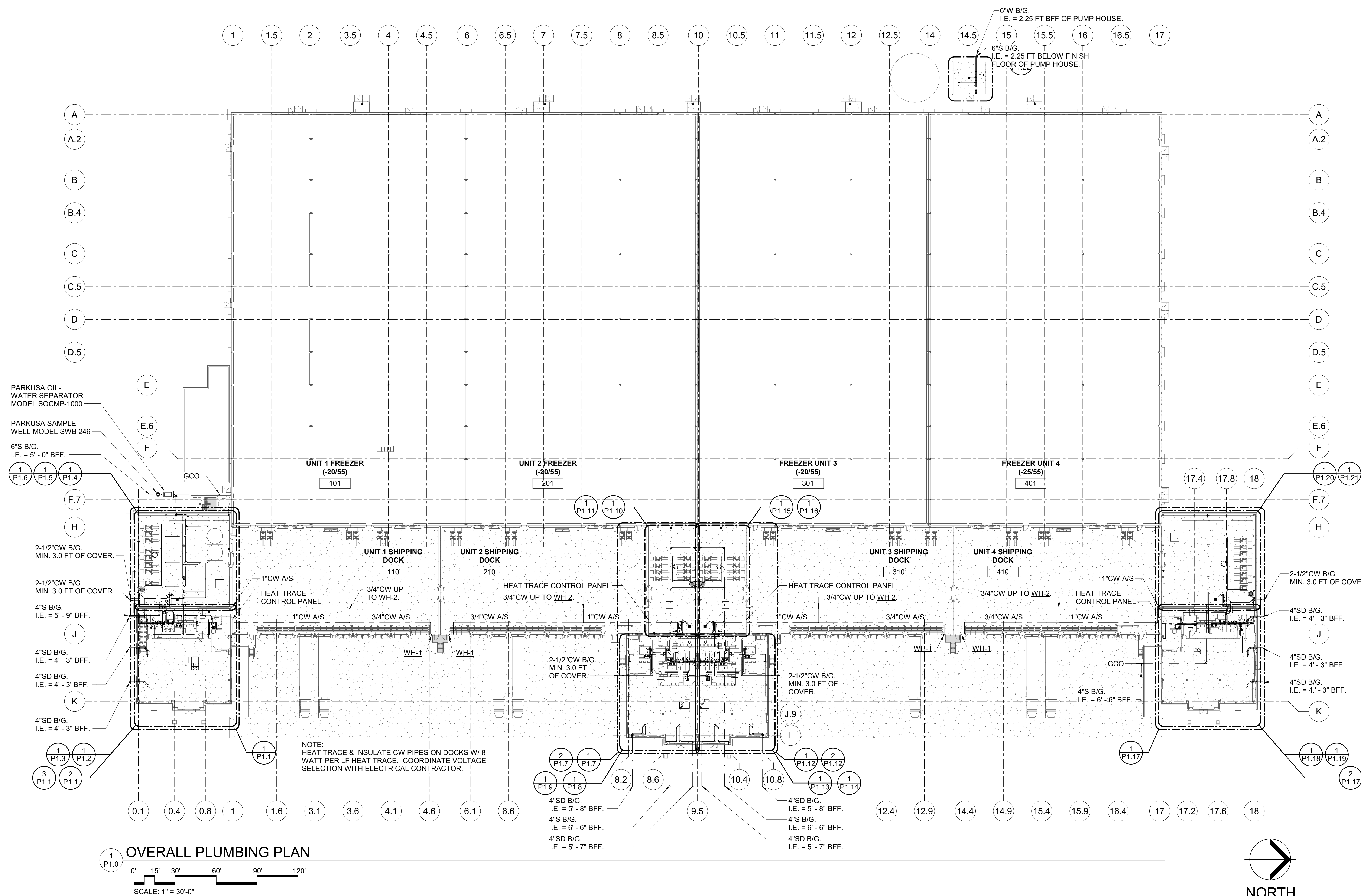
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OVERALL PLUMBING PLAN

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P1.0



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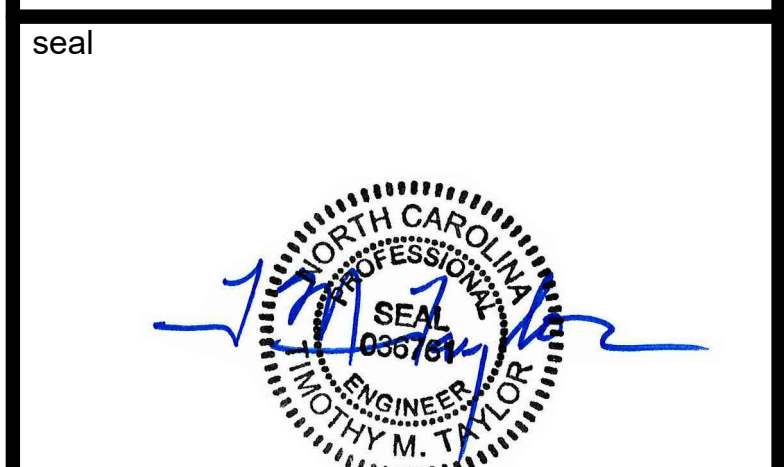
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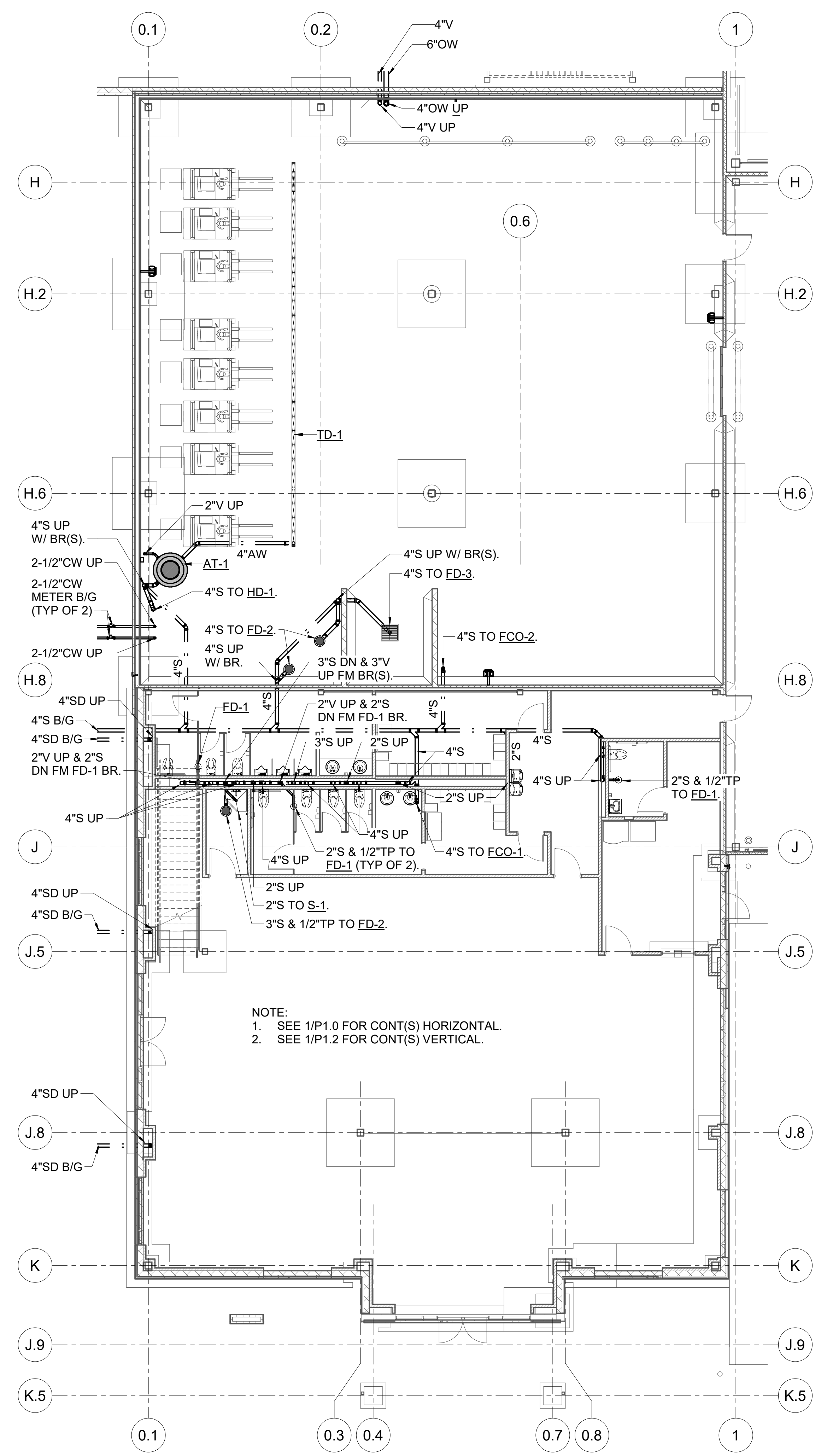
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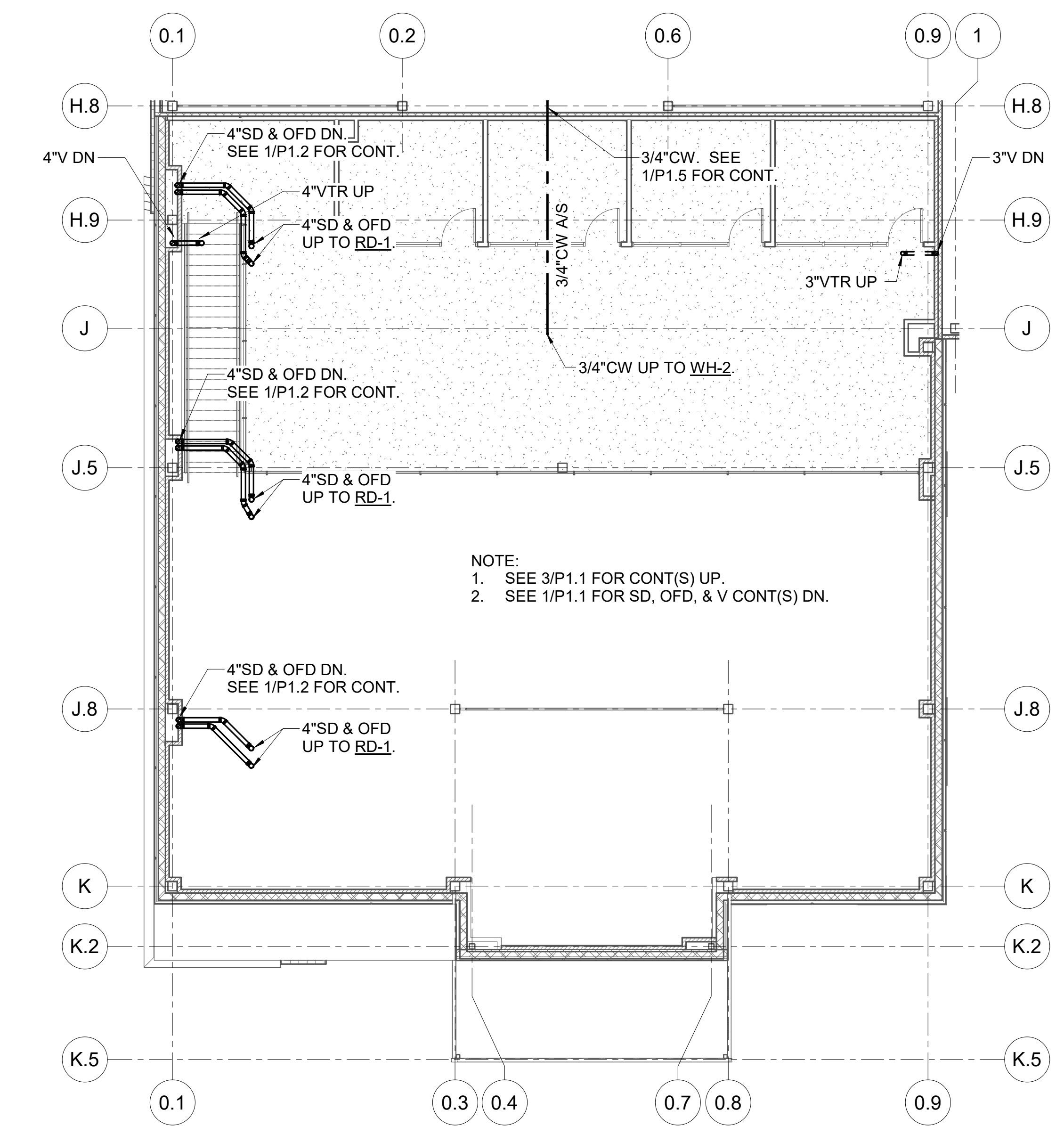


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**UNIT 1 PLUMBING
PLANS**

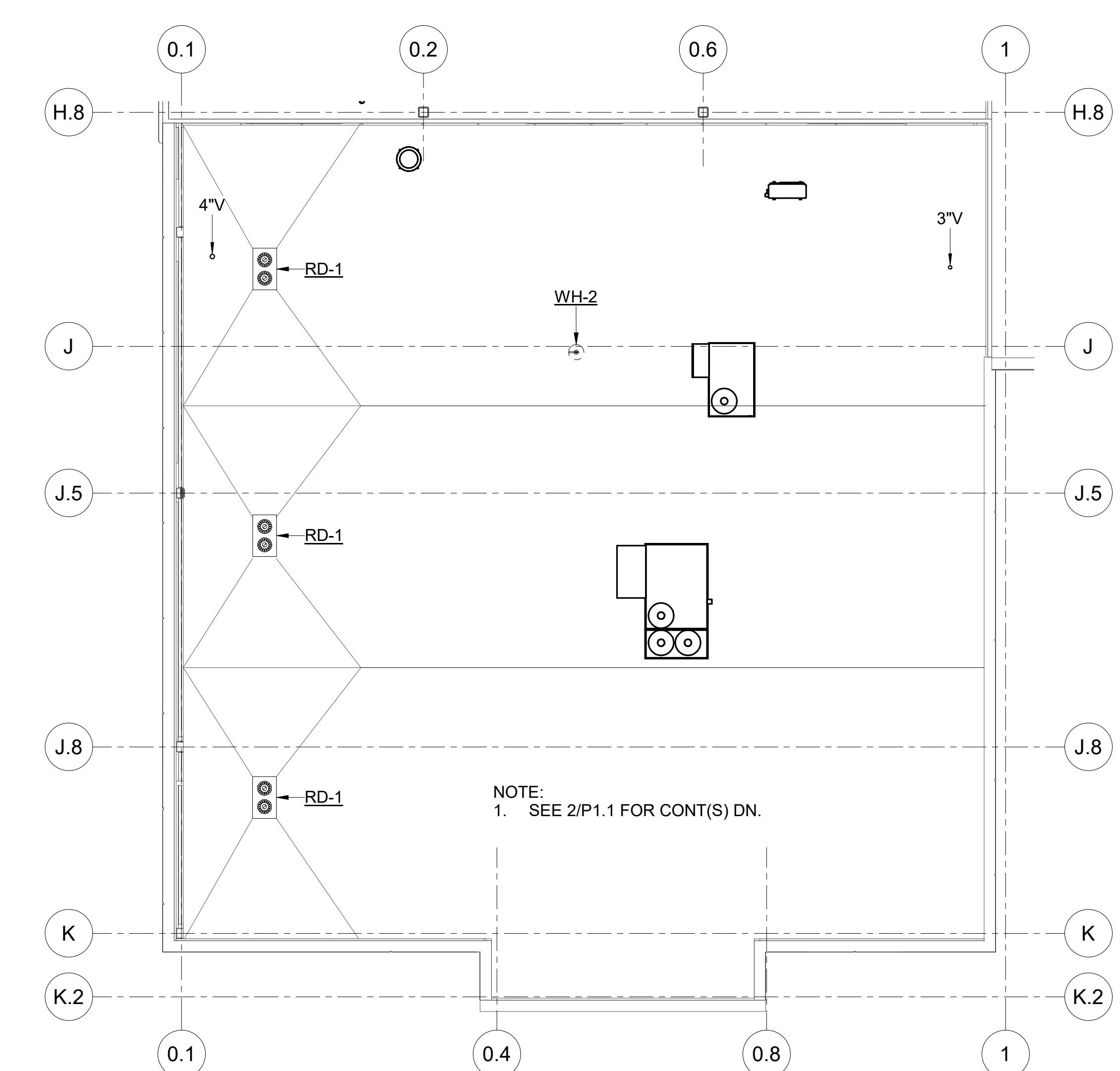
sheet
P1.1



1
P1.1
UNIT 1 UNDERGROUND PLUMBING PLAN
SCALE: 1/8" = 1'-0"
NORTH



2
P1.1
UNIT 1 OFFICE MEZZANINE PLUMBING PLAN
SCALE: 1/8" = 1'-0"
NORTH



3
P1.1
UNIT 1 OFFICE ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"
NORTH

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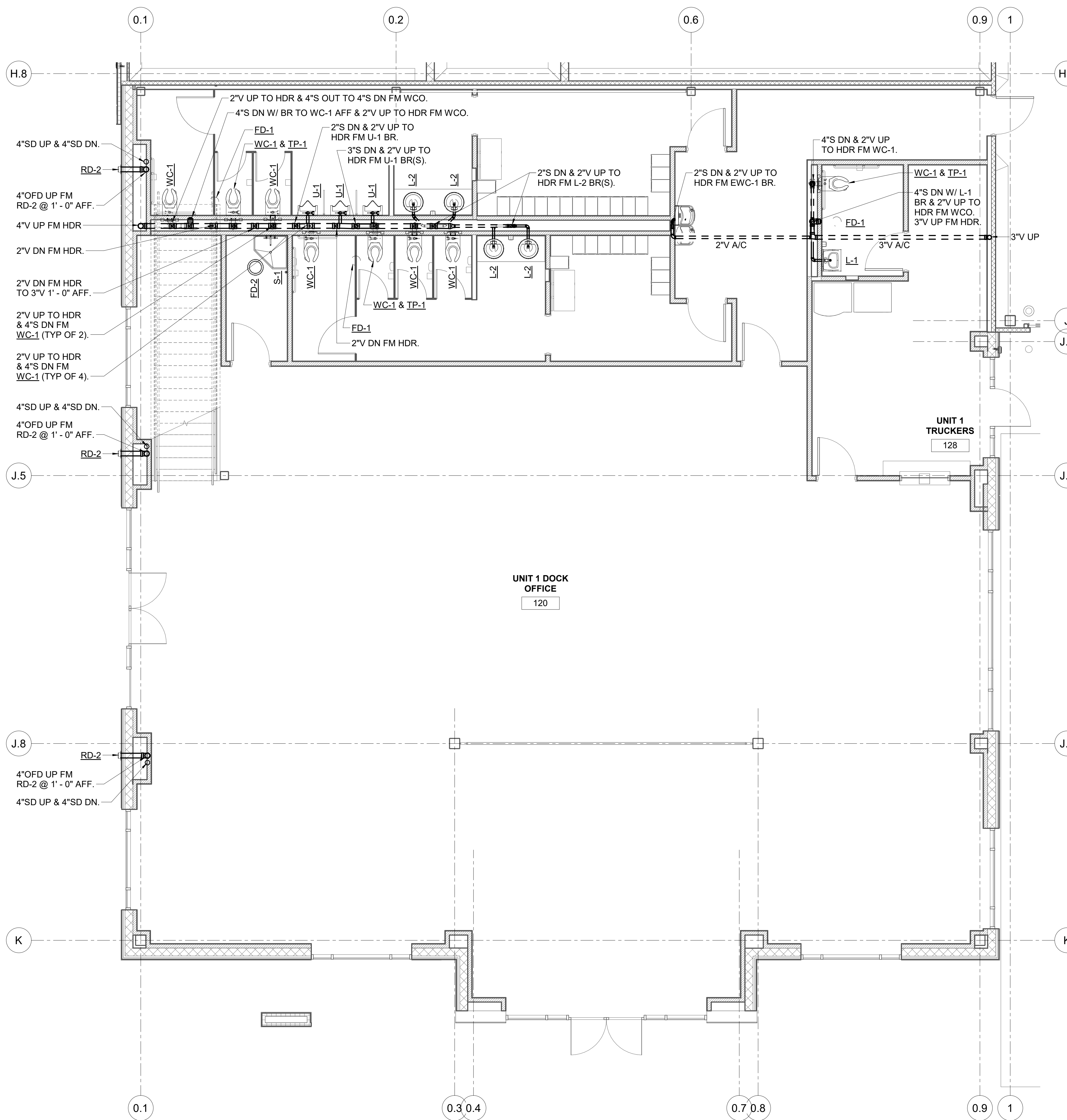
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1
P1.2
UNIT 1 OFFICE ABOVEGROUND SANITARY PLAN

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



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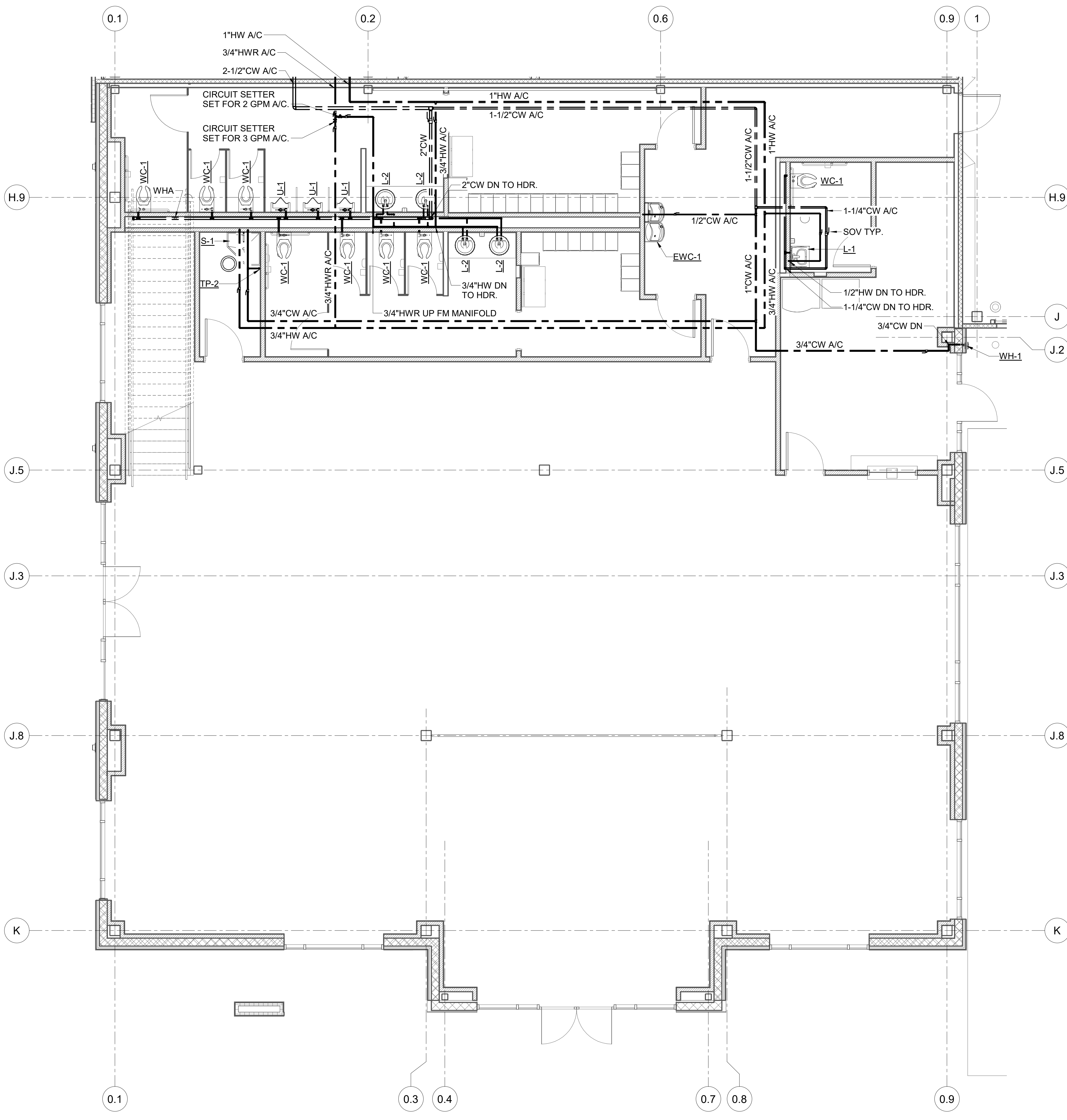
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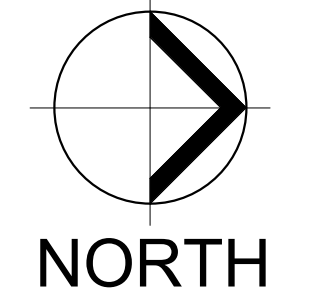


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UNIT 1 OFFICE ABOVEGROUND SANITARY PLAN

sheet
P1.2



P1.3 UNIT 1 OFFICE ABOVEGROUND WATER PLAN
SCALE: 1/4" = 1'-0"



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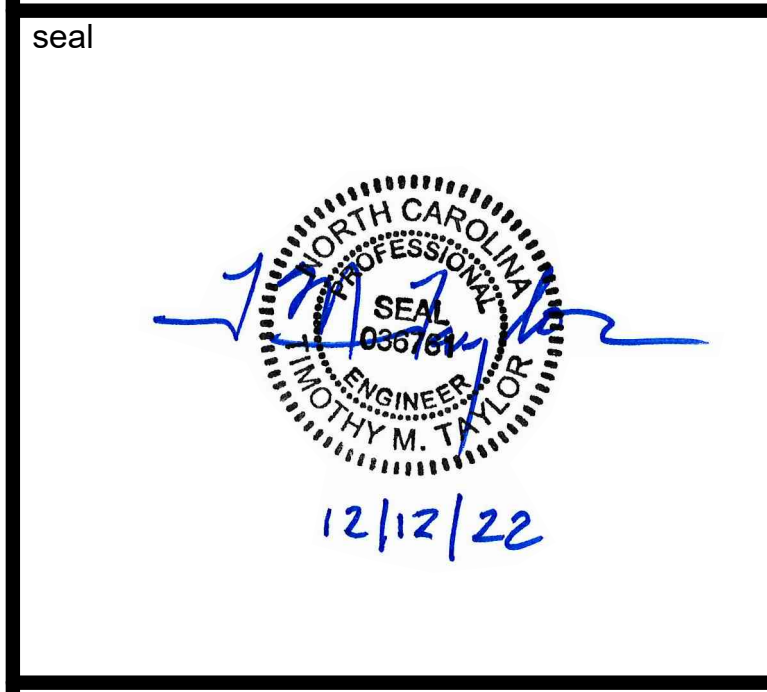
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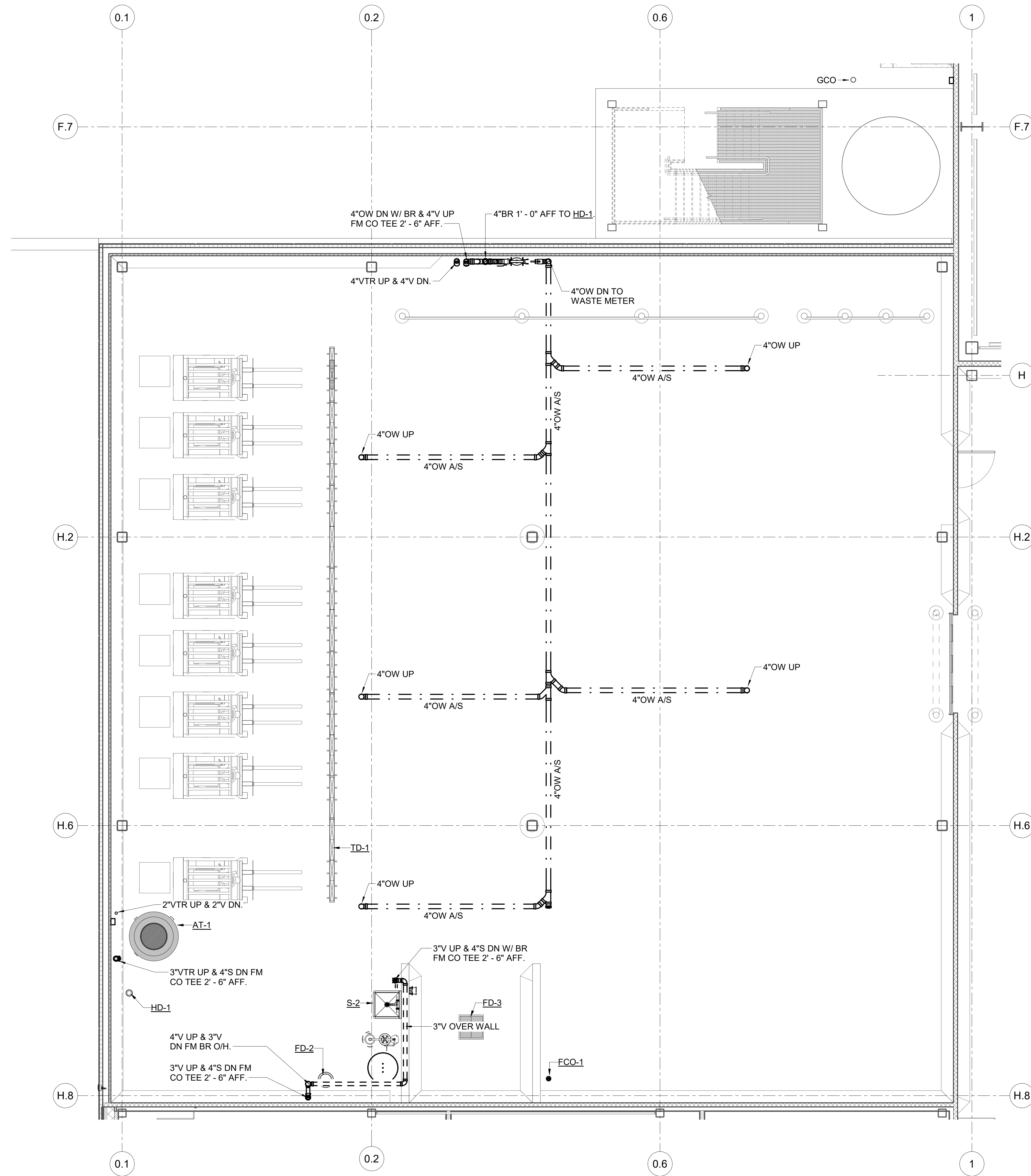
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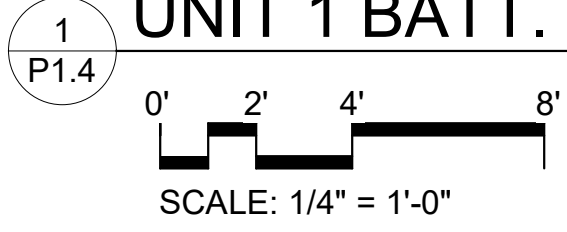


title
**UNIT 1 OFFICE
WATER PLAN**

sheet
P1.3



UNIT 1 BATT. CHARGING ABOVEGROUND SANITARY PLAN



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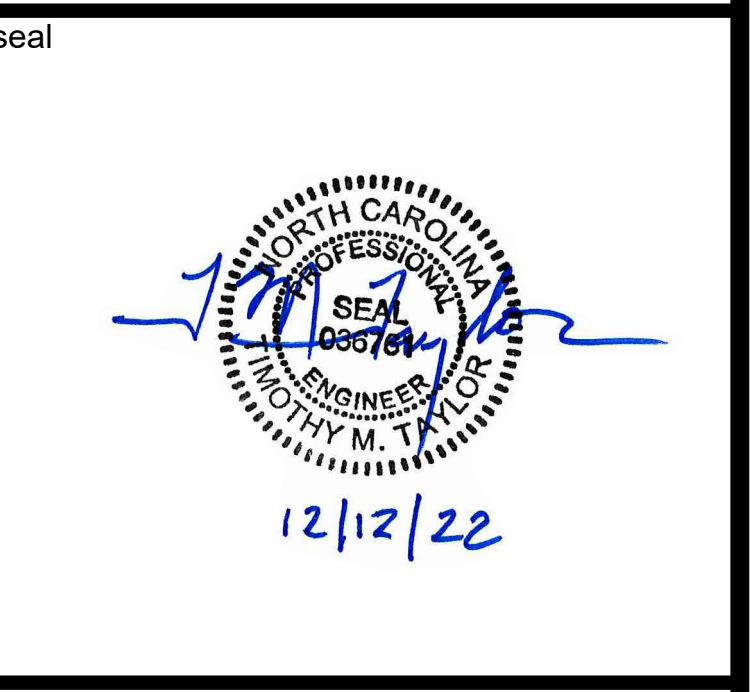


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UNIT 1 BATT. CHARGING ABOVEGROUND SANITARY PLAN

sheet **P1.4**

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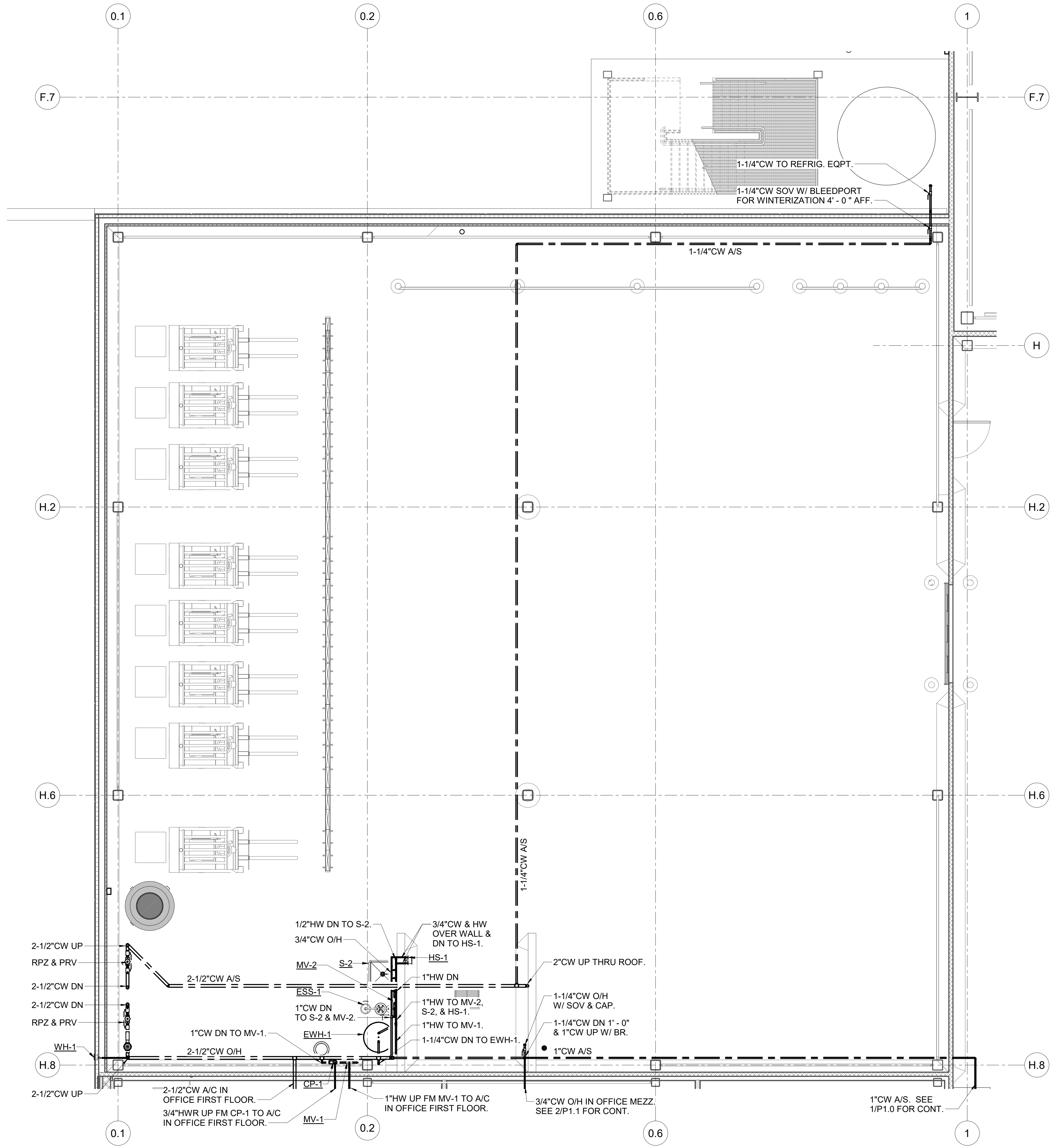
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title
UNIT 1 BATT. CHARGING ABOVEGROUND WATER PLAN

sheet
P1.5



UNIT 1 BATT. CHARGING ABOVEGROUND WATER PLAN
SCALE: 1/4" = 1'-0"



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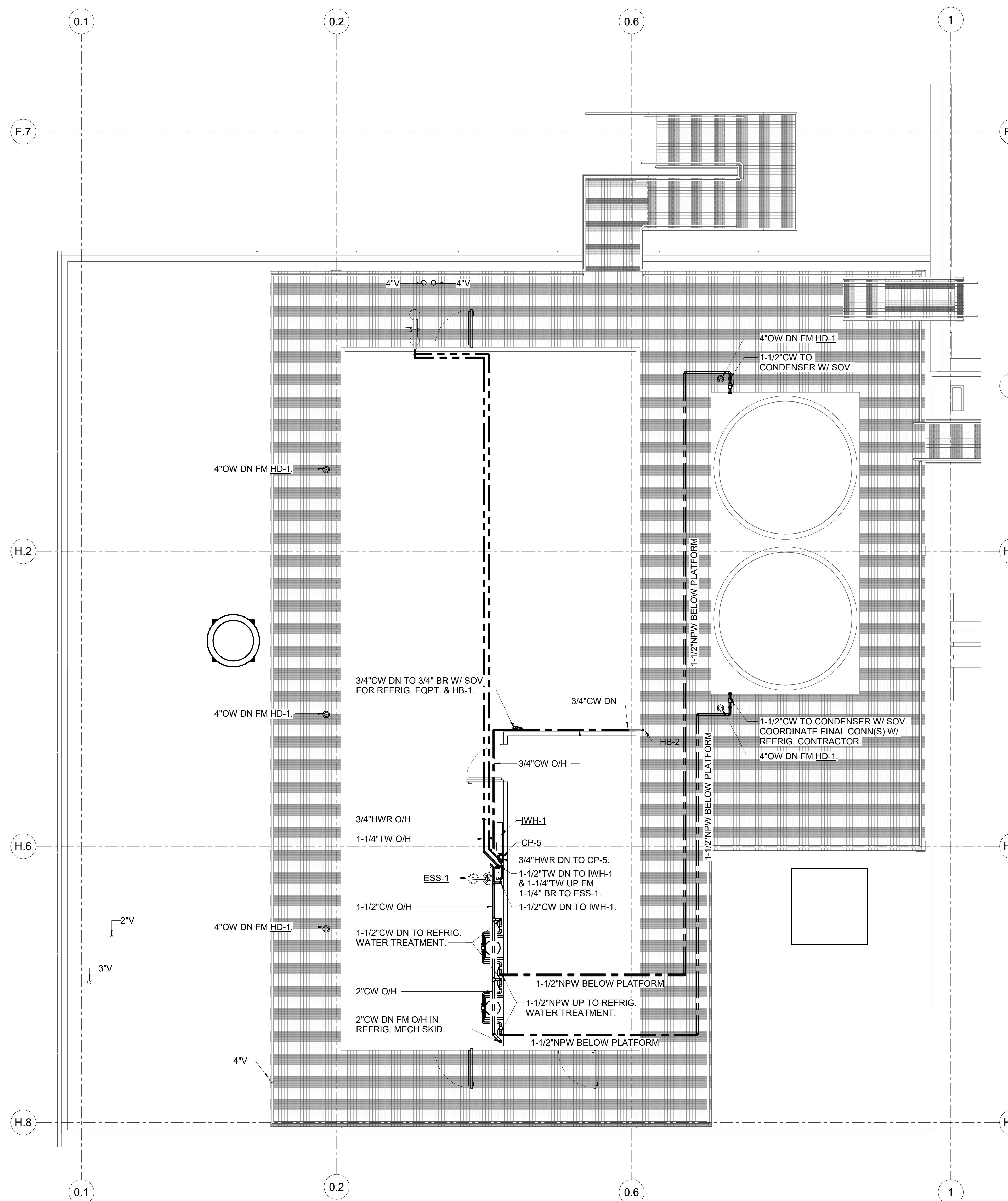
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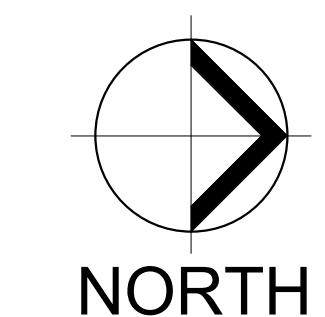
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title
**UNIT 1 BATT.
CHARGING ROOF
PLUMBING PLAN**

sheet
P1.6



1
P1.6
UNIT 1 BATT. CHARGING ROOF PLUMBING PLAN
SCALE: 1/4" = 1'-0"



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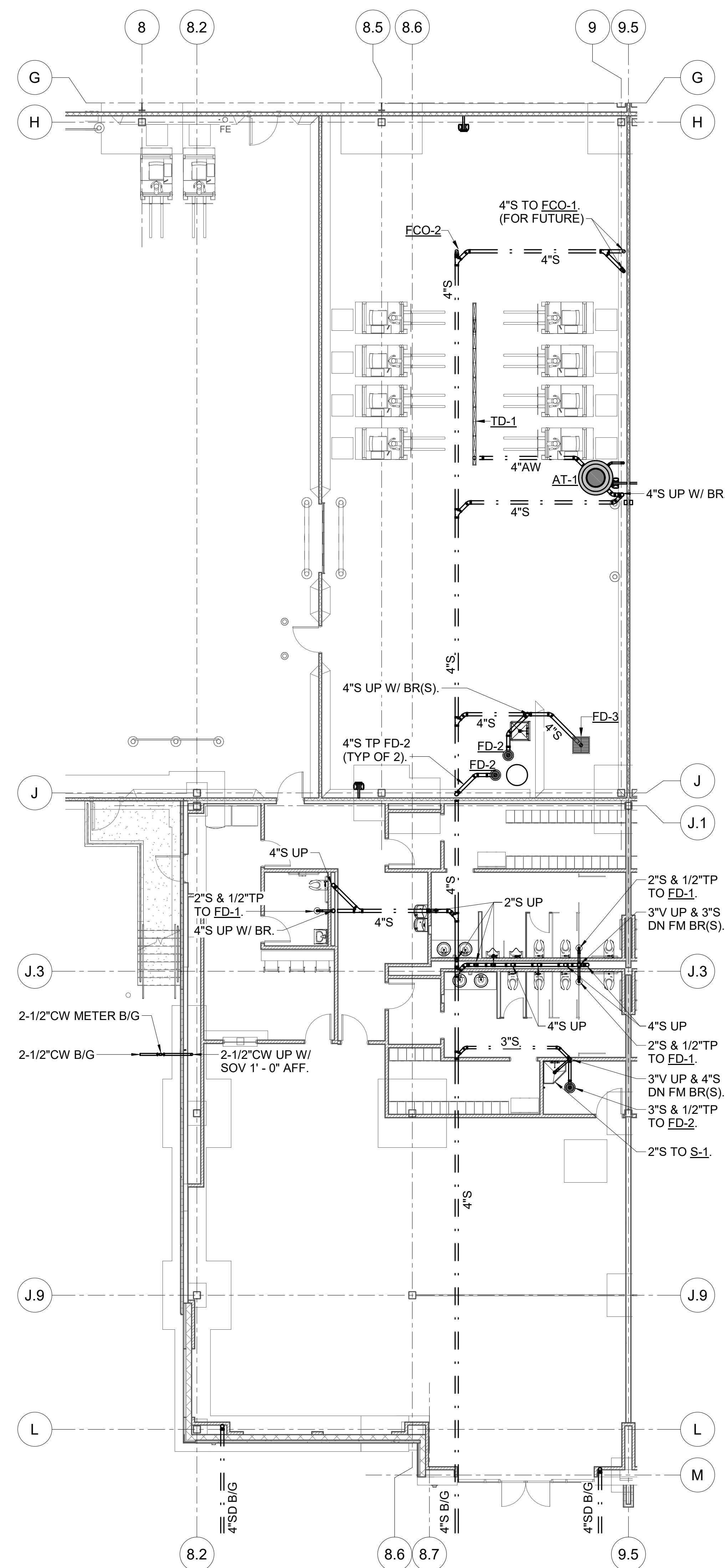


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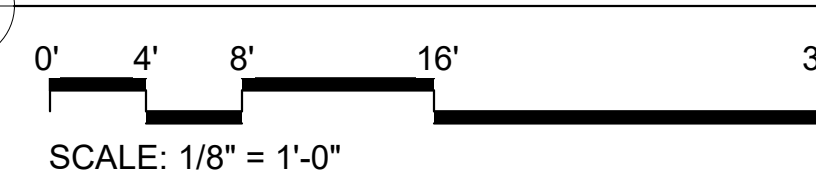
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**UNIT 2 PLUMBING
PLANS**

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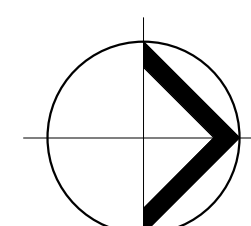
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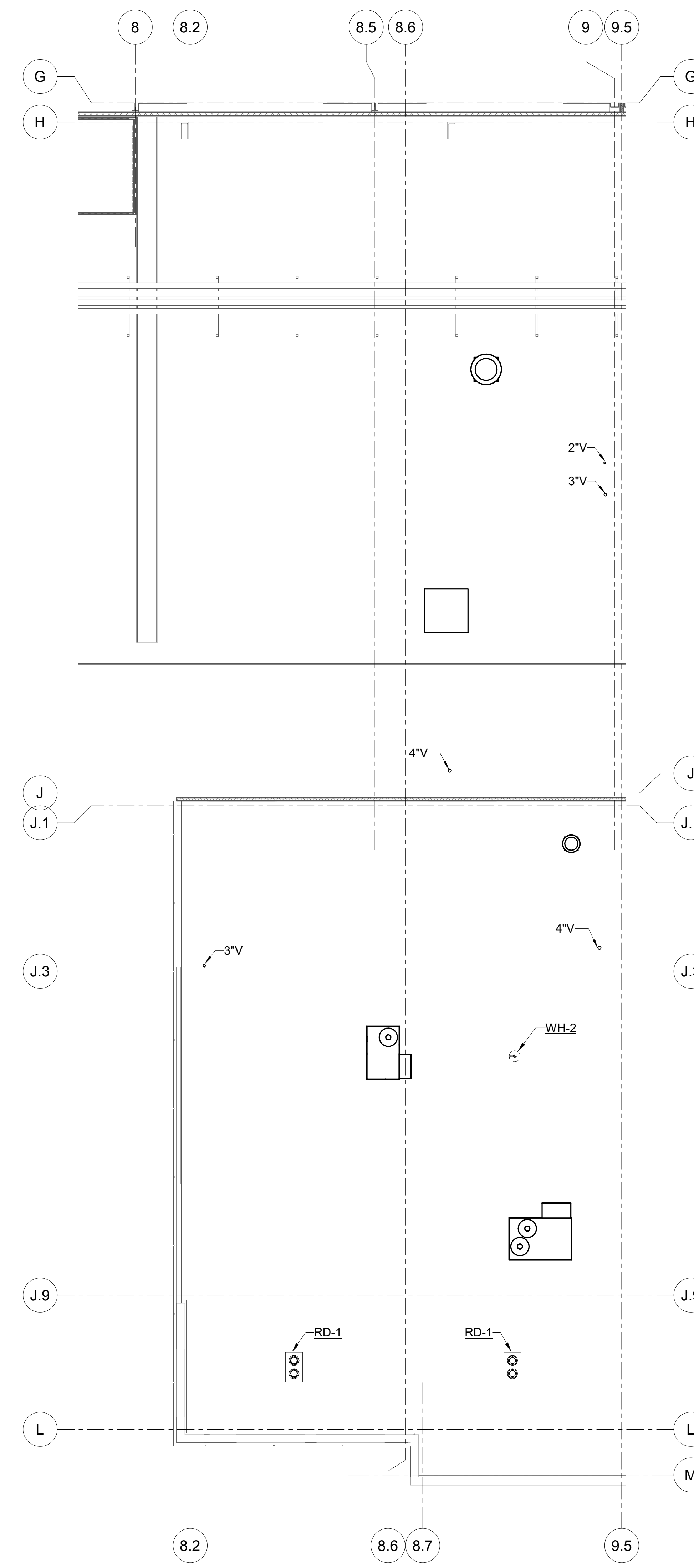
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P1.7
UNIT 2 UNDERGROUND PLUMBING PLAN



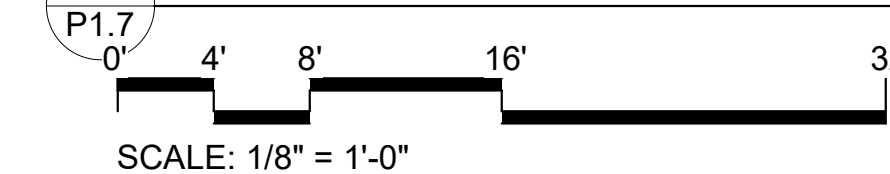
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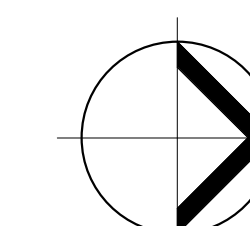
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2
P1.7
UNIT 2 ROOF PLUMBING PLAN



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



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WILMINGTON, NC 28412

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project no. 20-086

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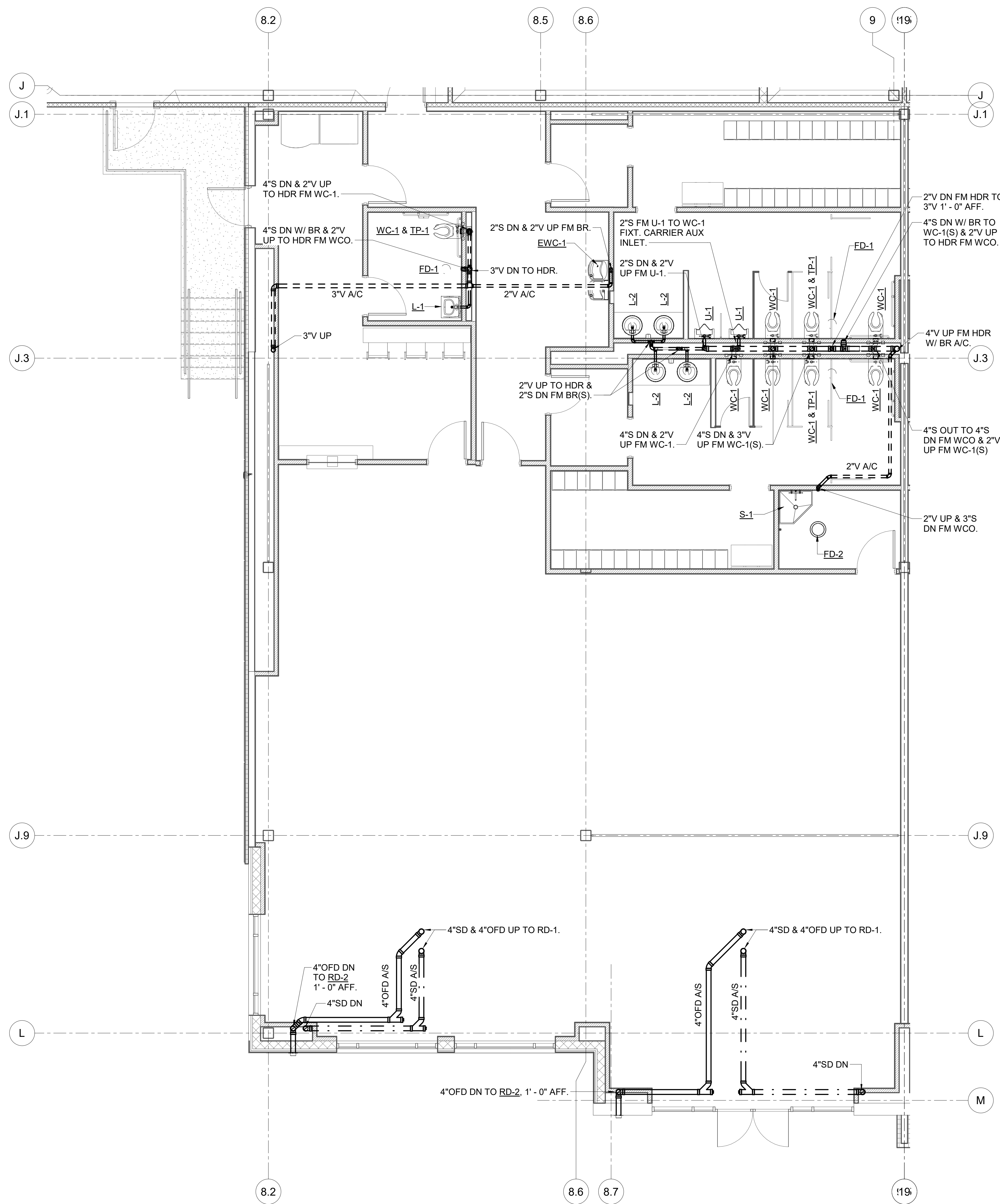


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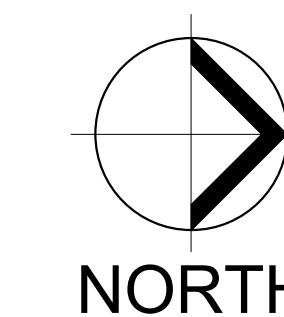
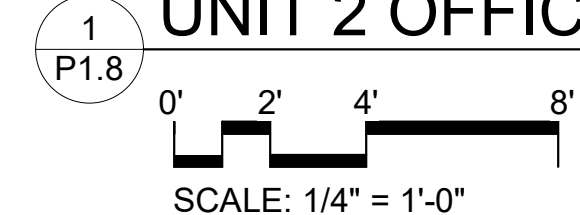
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UNIT 2 OFFICE ABOVEGROUND SANITARY PLAN

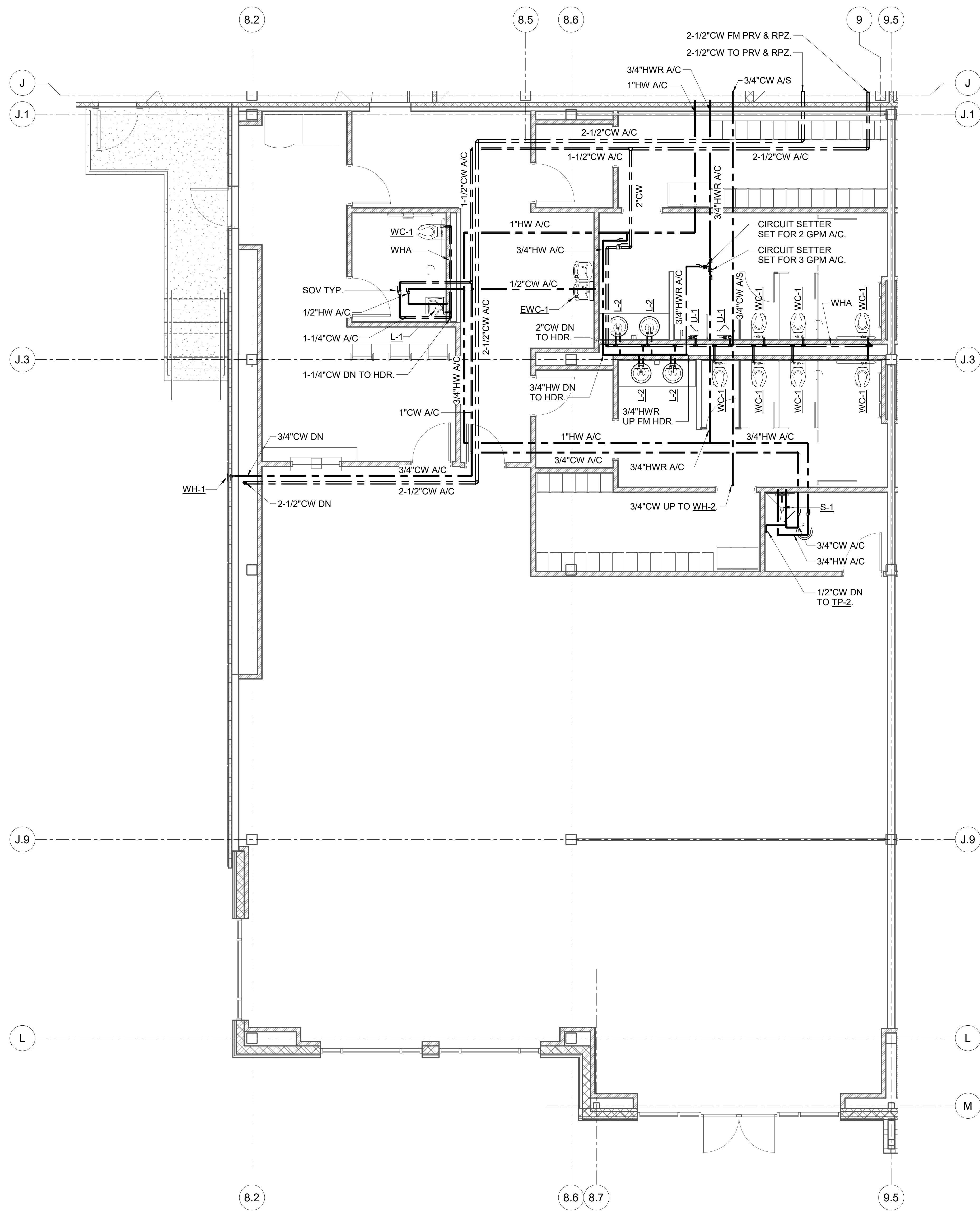
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P1.8

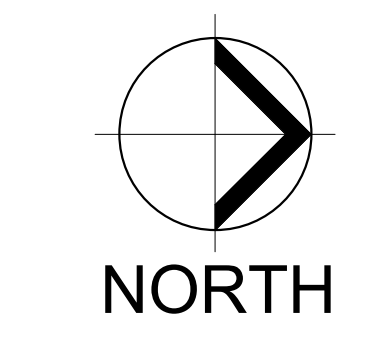


1 UNIT 2 OFFICE ABOVEGROUND SANITARY PLAN





1
P1.9
UNIT 2 OFFICE ABOVEGROUND WATER PLAN
 SCALE: 1/4" = 1'-0"



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title
UNIT 2 OFFICE WATER PLAN

sheet
P1.9

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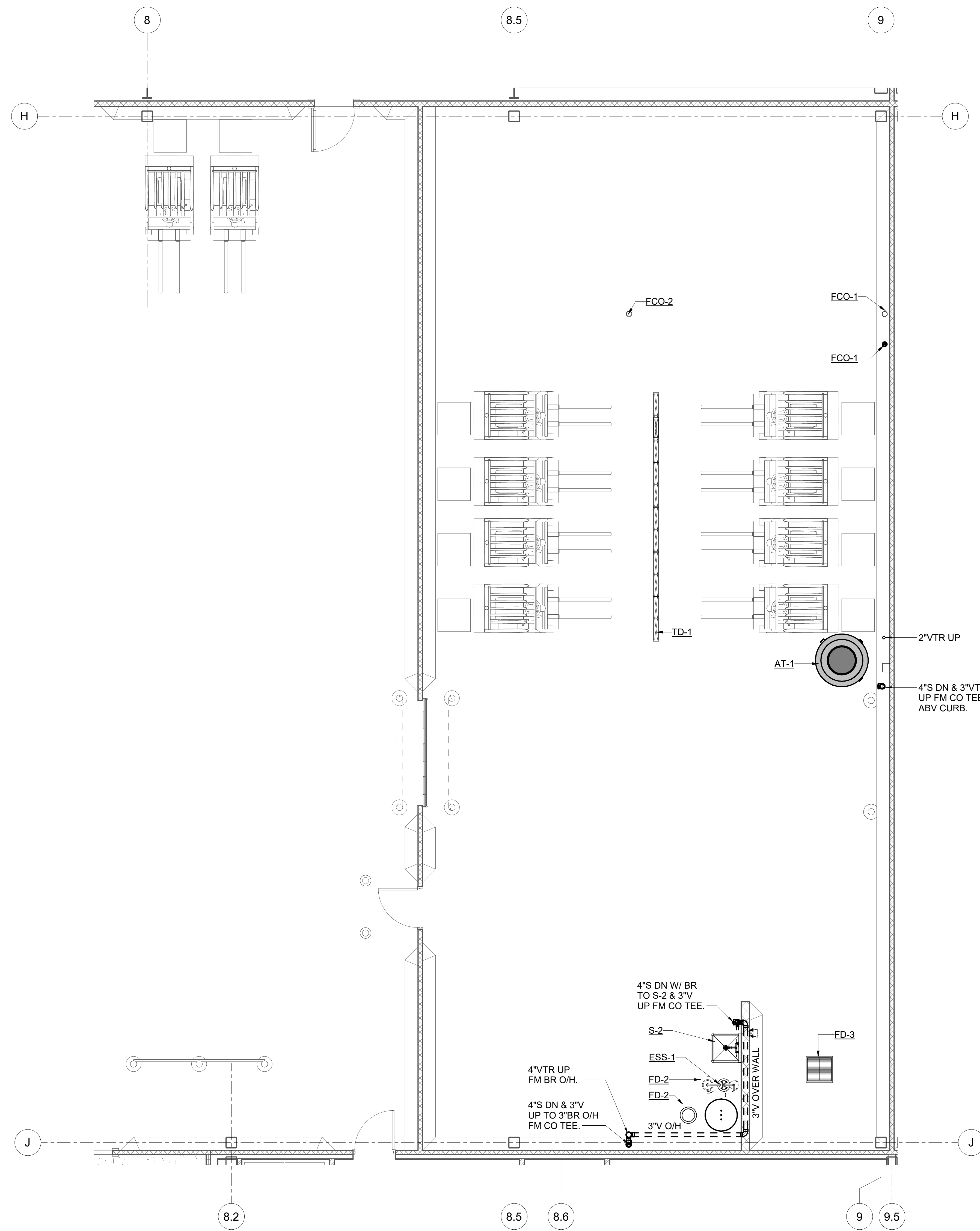
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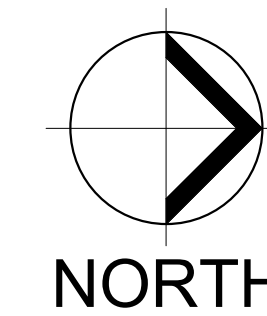
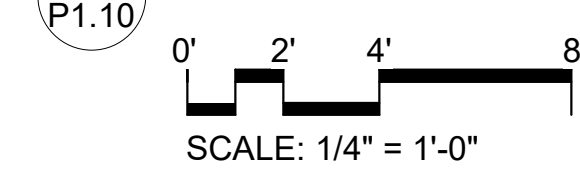


COLD SUMMIT DEVELOPMENT
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1 UNIT 2 BATT, CHARGING ABOVEGROUND SANITARY PLAN



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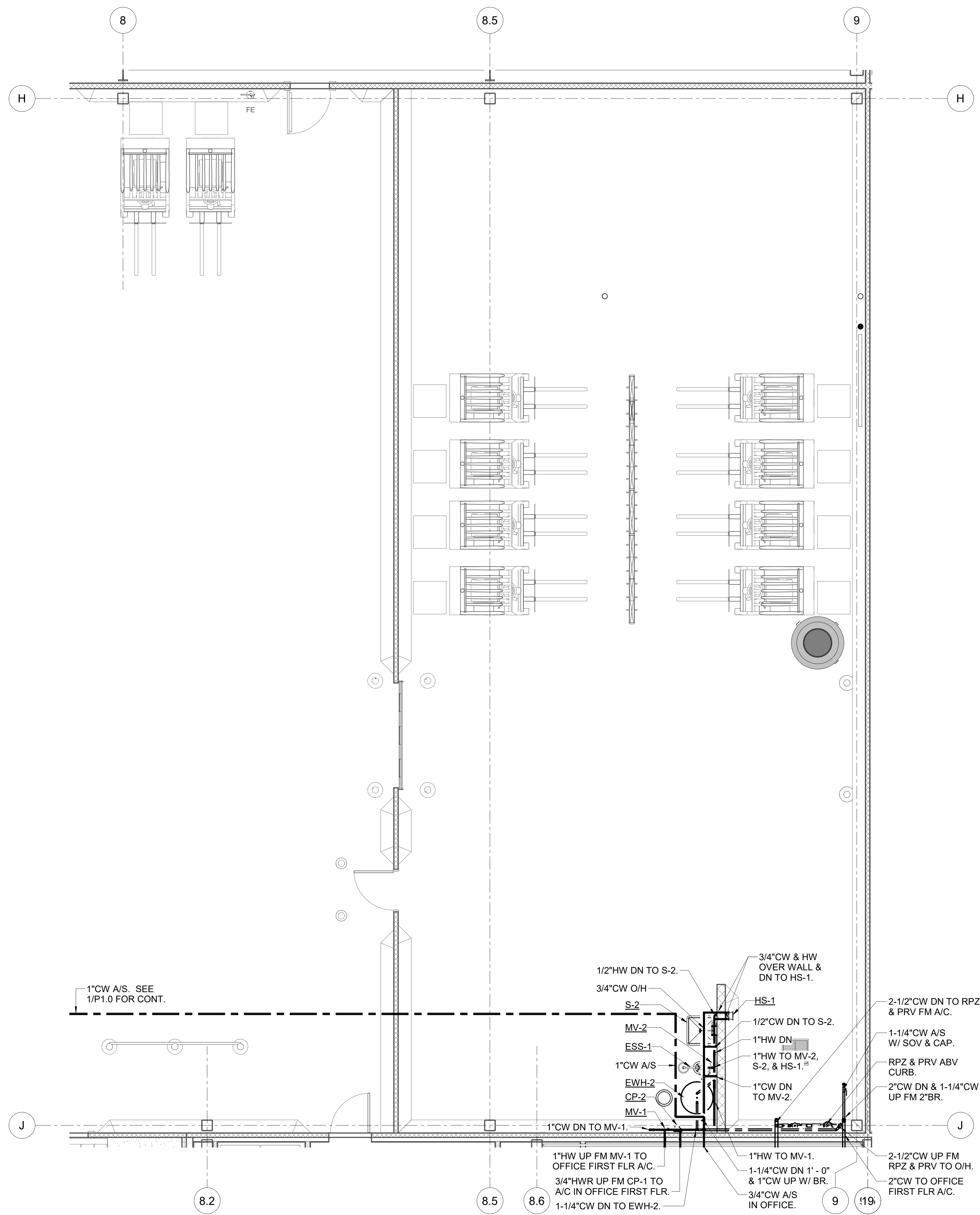
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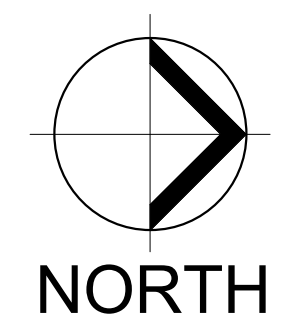
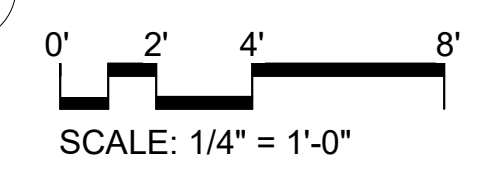
12/12/22

title
UNIT 2 BATT.
CHARGING
ABOVEGROUND
SANITARY PLAN

sheet
P1.10



1 P1.11 UNIT 2 BATT. CHARGING ABOVEGROUND WATER PLAN



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title
**UNIT 2 BATT.
CHARGING
ABOVEGROUND
WATER PLAN**

sheet
P1.11

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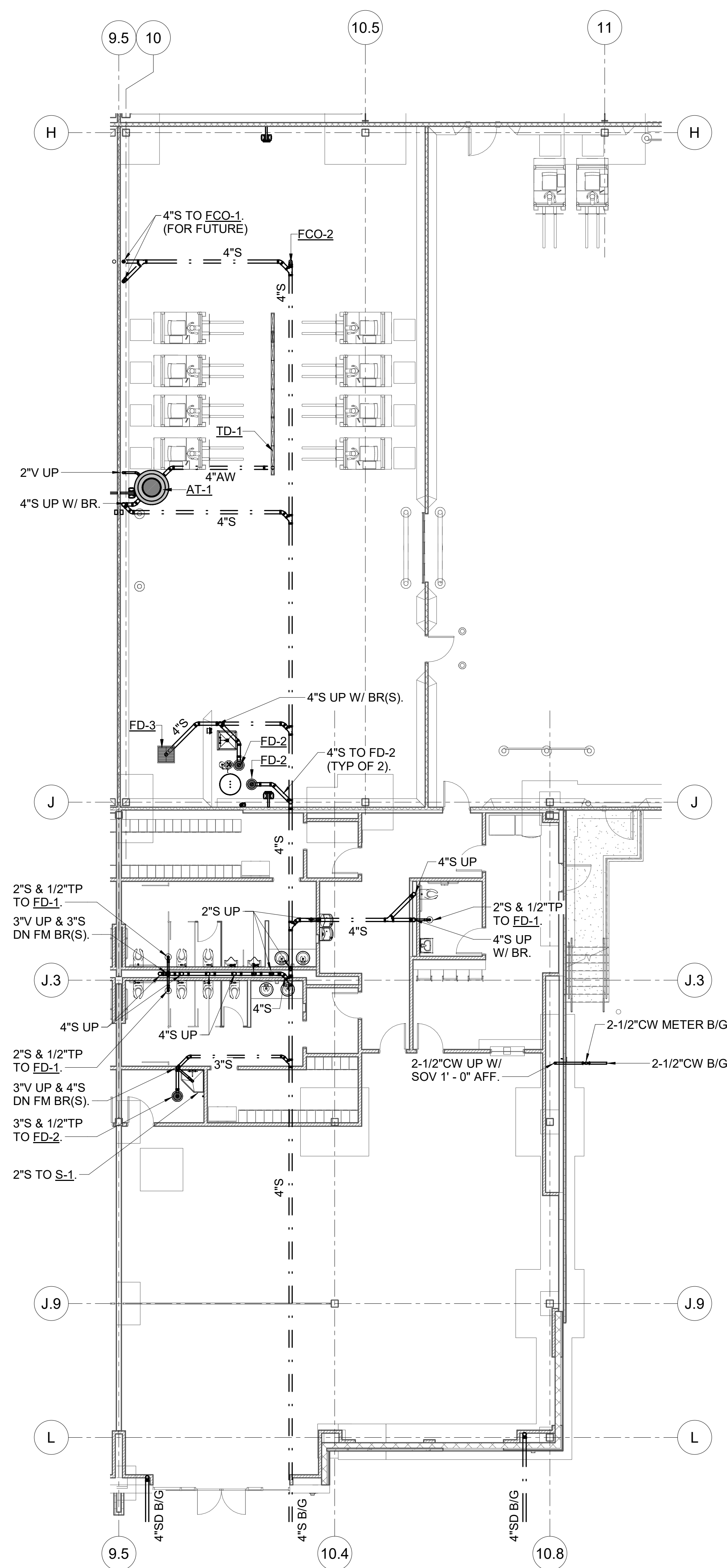
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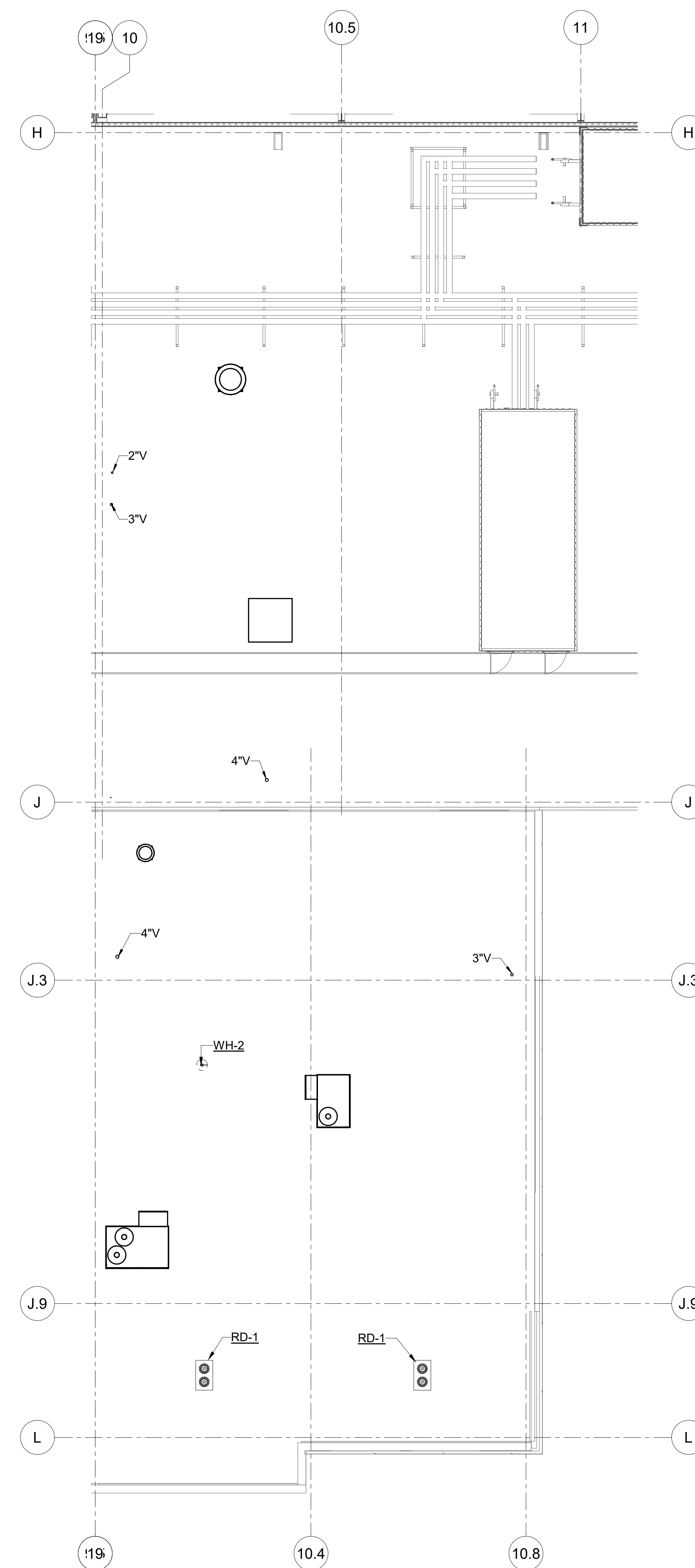
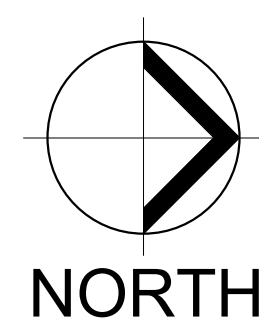


title
**UNIT 3 PLUMBING
PLANS**

sheet
P1.12

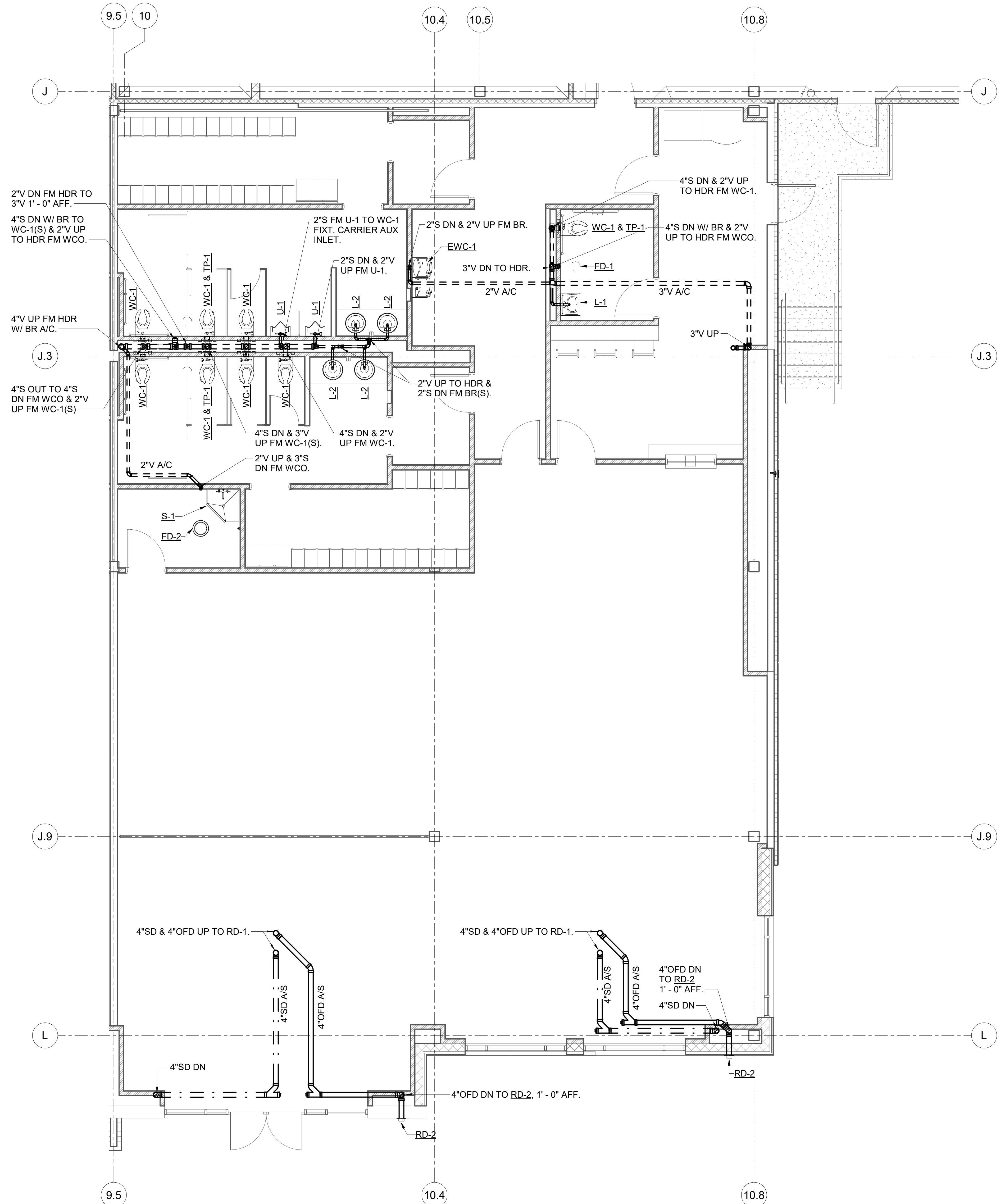


1 UNIT 3 UNDERGROUND PLUMBING PLAN
SCALE: 1/8" = 1'-0"

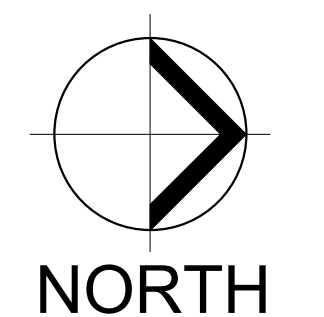


2 UNIT 3 ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"





1 UNIT 3 OFFICE ABOVEGROUND SANITARY PLAN
P1.13
SCALE: 1/4" = 1'-0"



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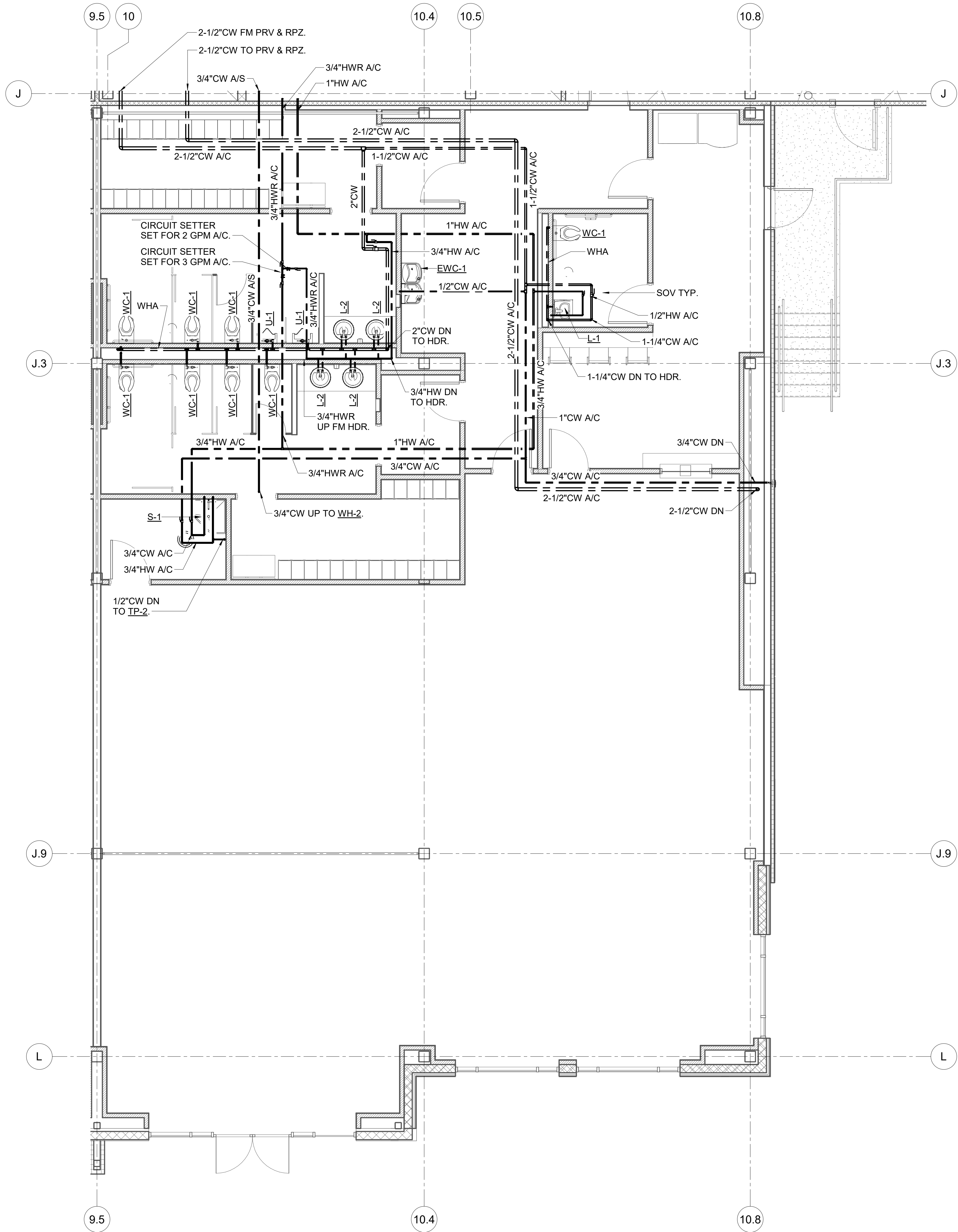
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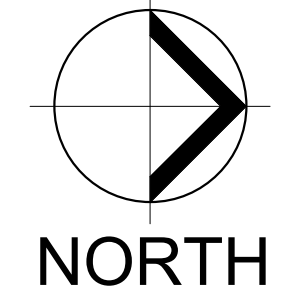
12/12/22

title
**UNIT 3 OFFICE
ABOVEGROUND
SANITARY PLAN**

sheet
P1.13



1
P1.14
UNIT 3 OFFICE ABOVEGROUND WATER PLAN
SCALE: 1/4" = 1'-0"



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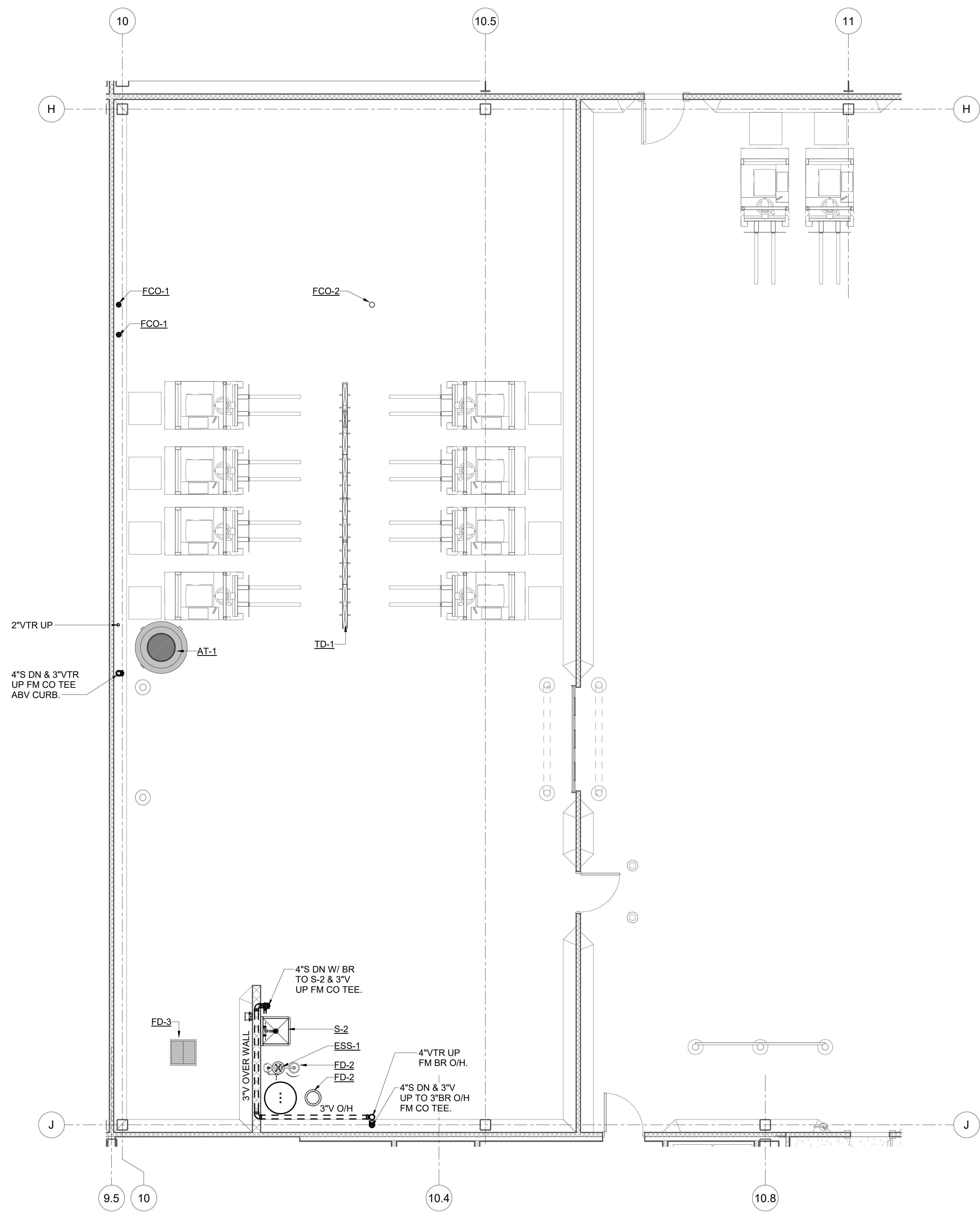
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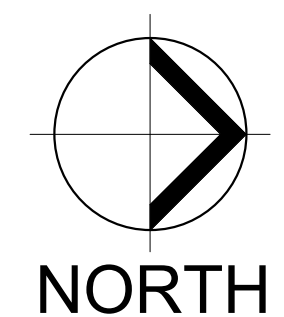
12/12/22

title
**UNIT 3 OFFICE
WATER PLAN**

sheet
P1.14



1 UNIT 3 BATT, CHARGING ABOVEGROUND SANITARY PLAN
 P1.15
 SCALE: 1/4" = 1'-0"



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title
 UNIT 3 BATT.
 CHARGING
 ABOVEGROUND
 SANITARY PLAN

sheet
 P1.15

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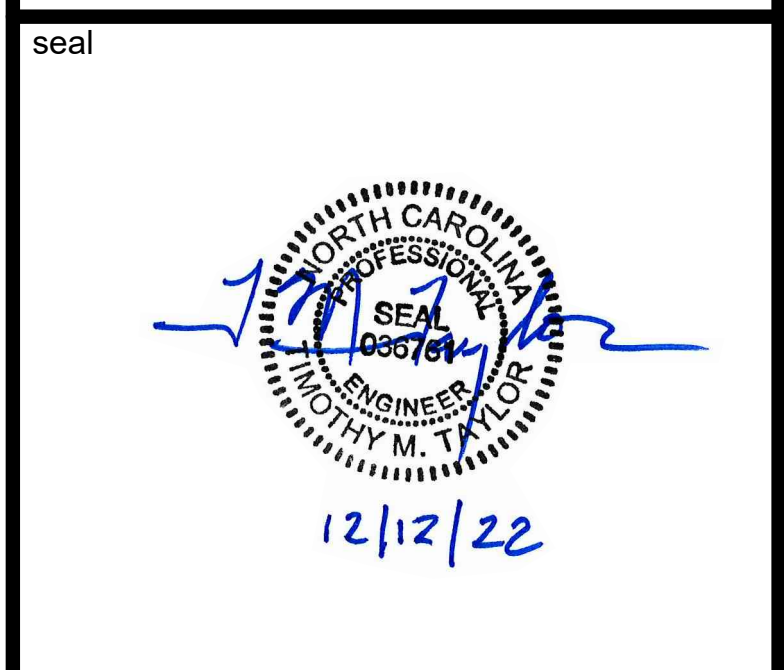
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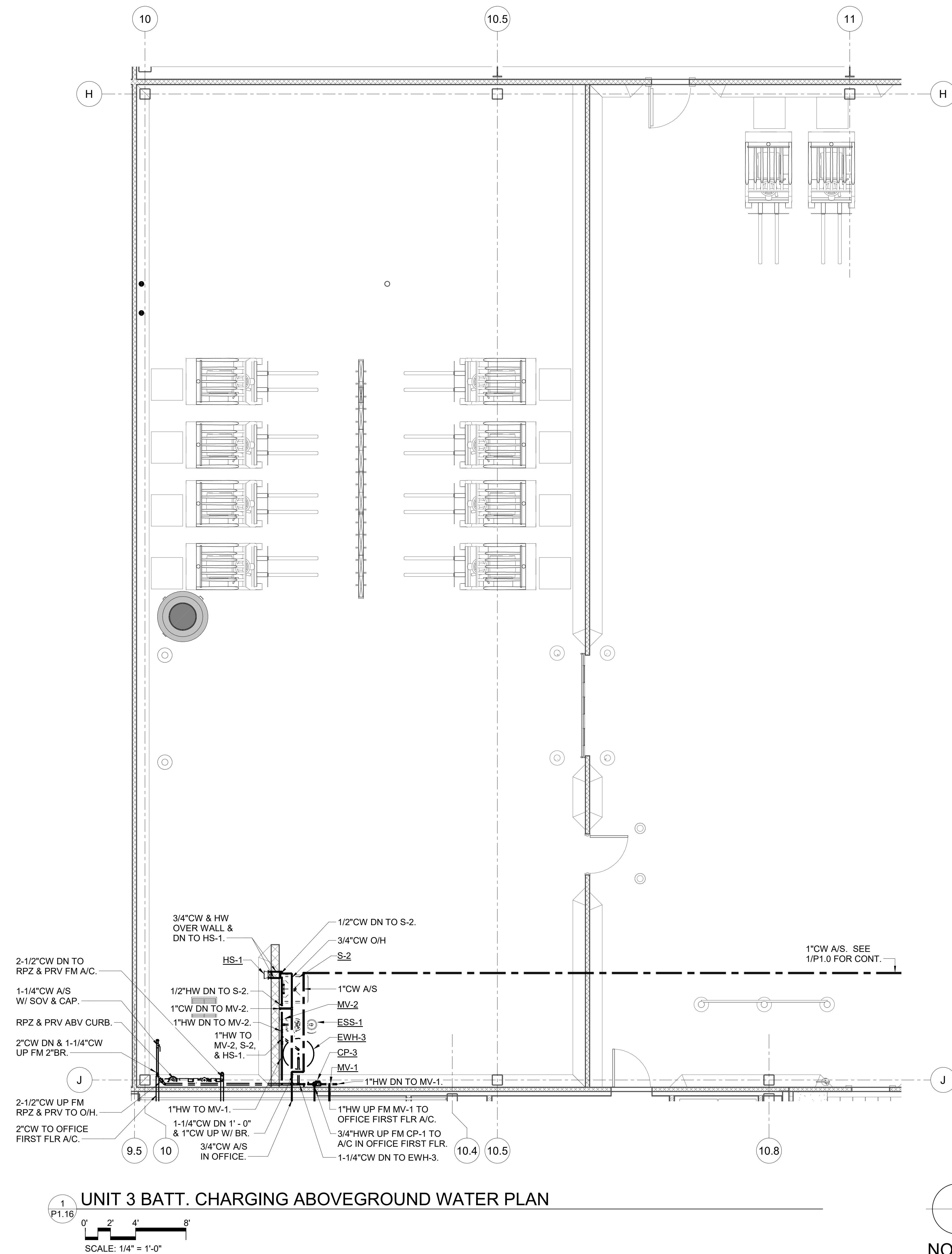
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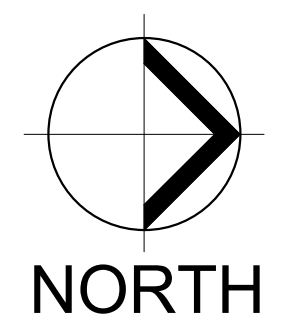
title
**UNIT 3 BATT.
CHARGING
ABOVEGROUND
WATER PLAN**

sheet
P1.16



1 UNIT 3 BATT. CHARGING ABOVEGROUND WATER PLAN

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



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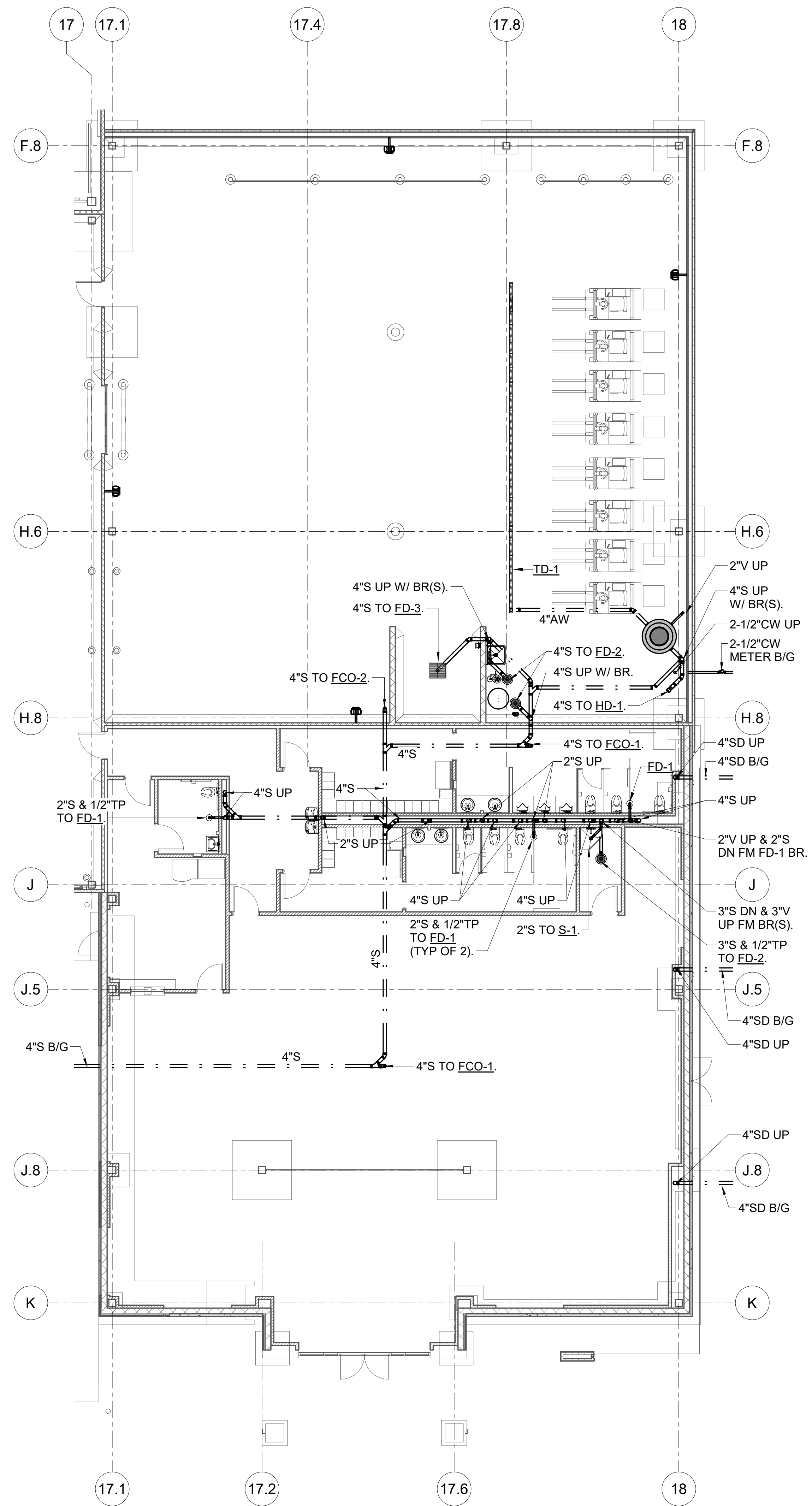
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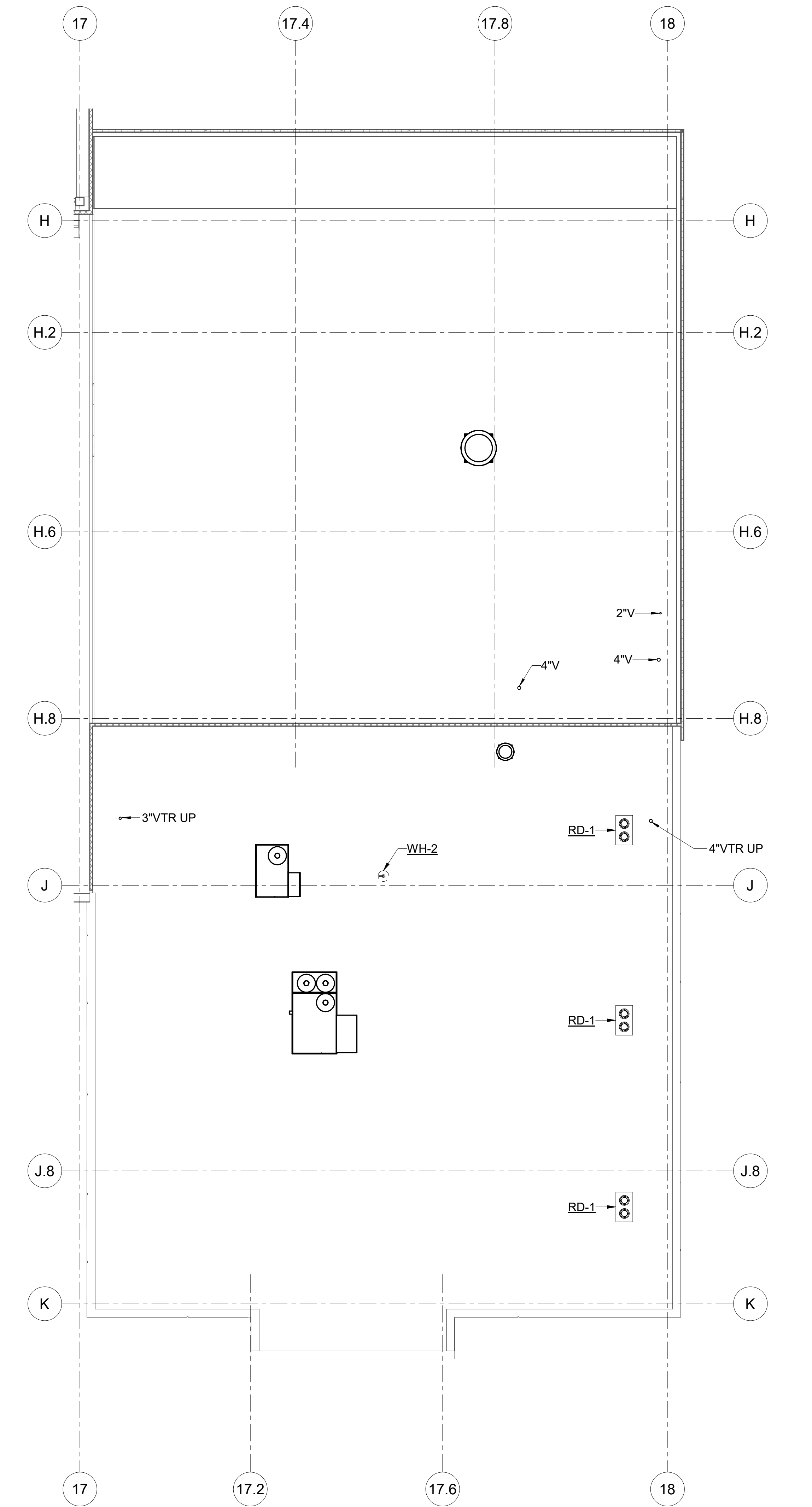
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title
**UNIT 4 PLUMBING
PLANS**

sheet
P1.17



1
P1.17
UNIT 4 UNDERGROUND PLUMBING PLAN
SCALE: 1/8" = 1'-0"
NORTH



2
P1.17
UNIT 4 ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"
NORTH

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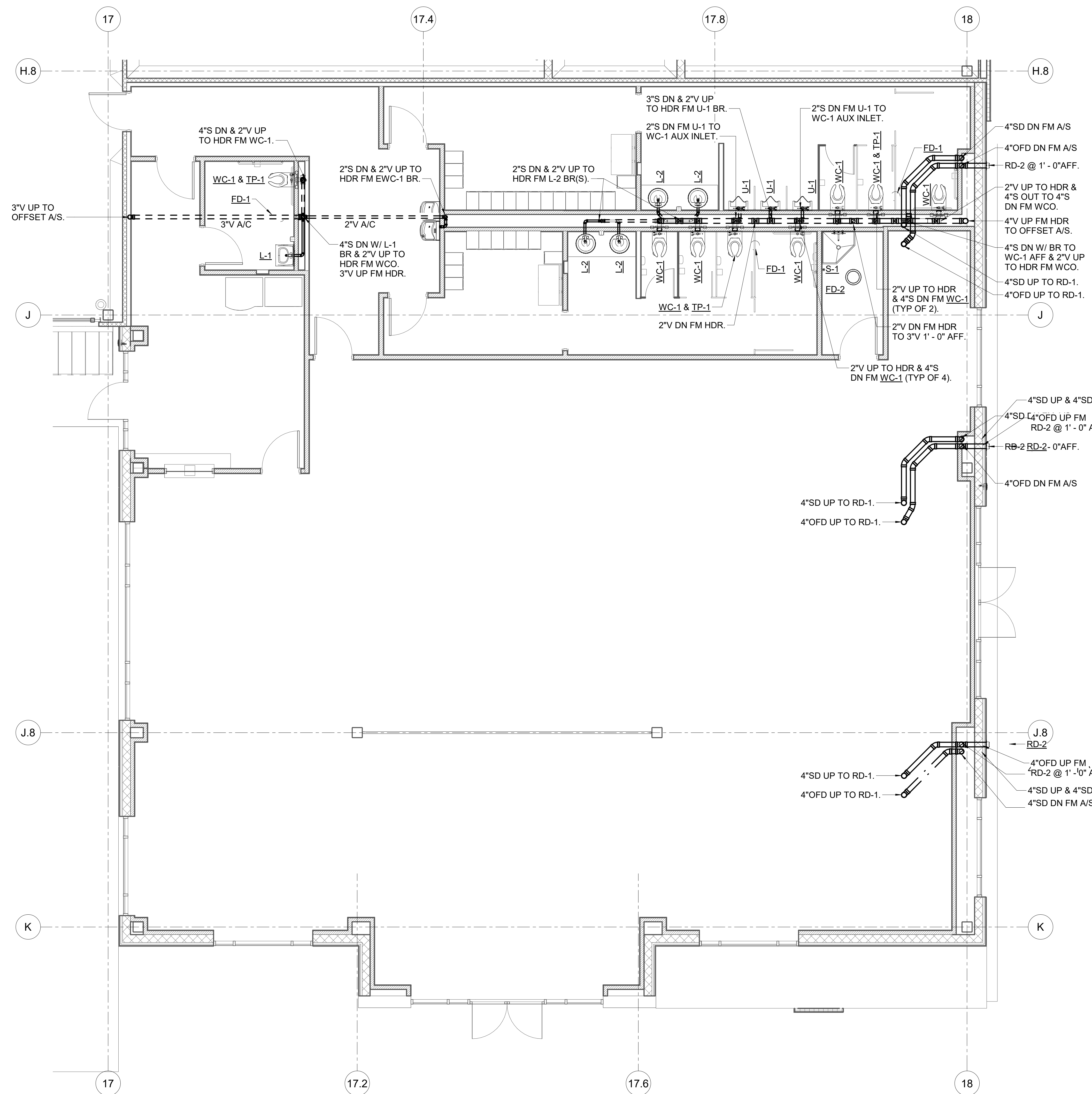
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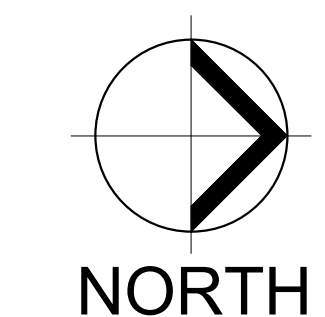
12/12/22

title
**UNIT 4 OFFICE
ABOVEGROUND
SANITARY PLAN**

sheet
P1.18



1 UNIT 4 OFFICE ABOVEGROUND SANITARY PLAN
SCALE: 1/4" = 1'-0"



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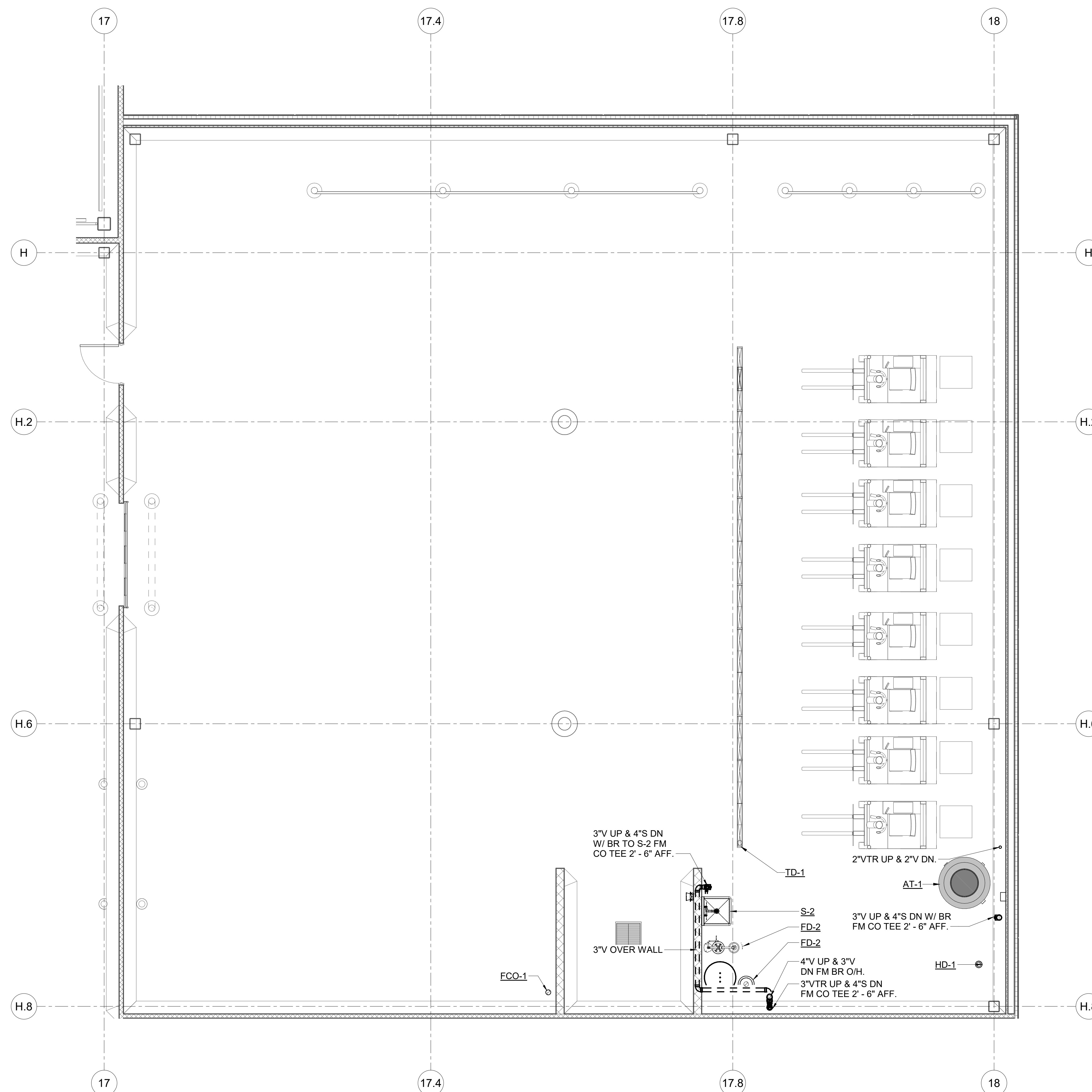
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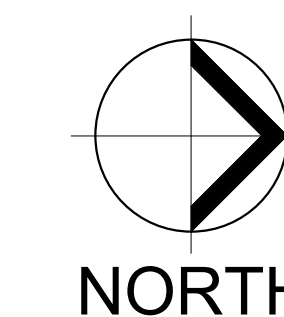
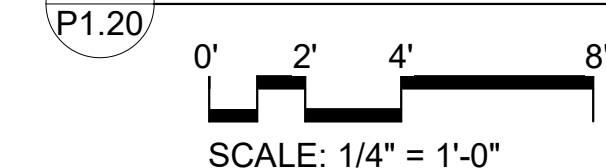
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title
UNIT 4 BATT. CHARGING ABOVEGROUND SANITARY PLAN

sheet
P1.20



UNIT 4 BATT. CHARGING ABOVEGROUND SANITARY PLAN



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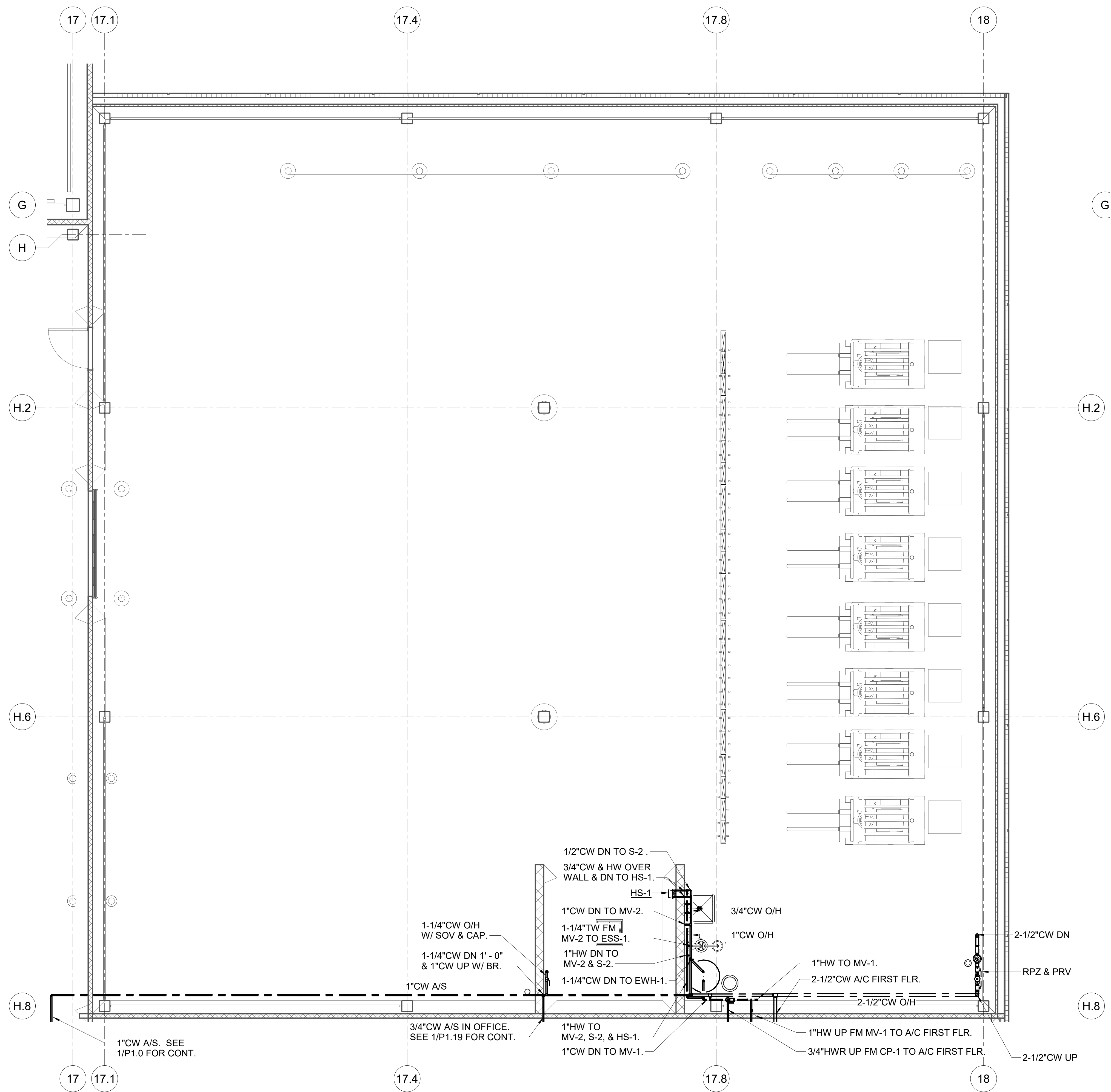
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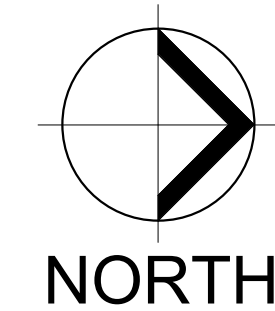


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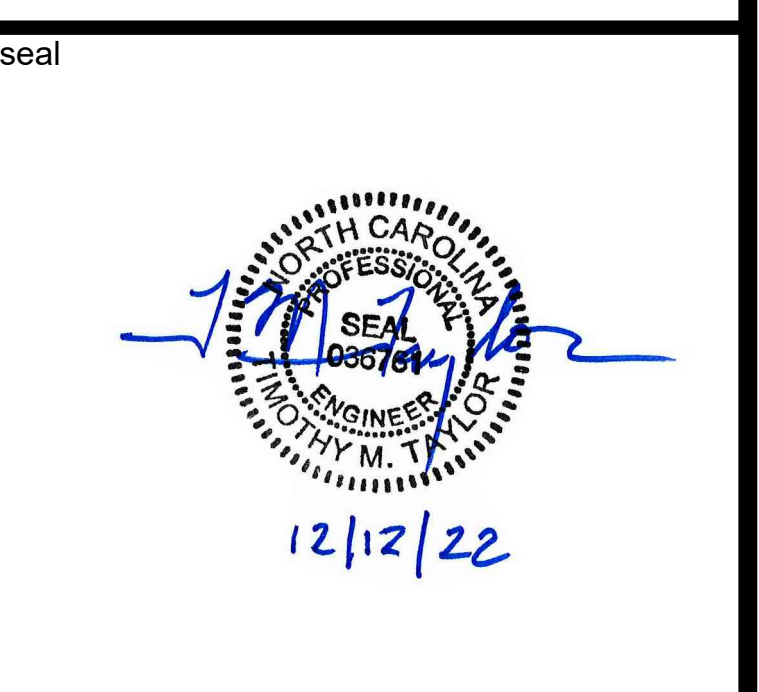


1 UNIT 4 BATT. CHARGING ABOVEGROUND WATER PLAN
P1.21
SCALE: 1/4" = 1'-0"



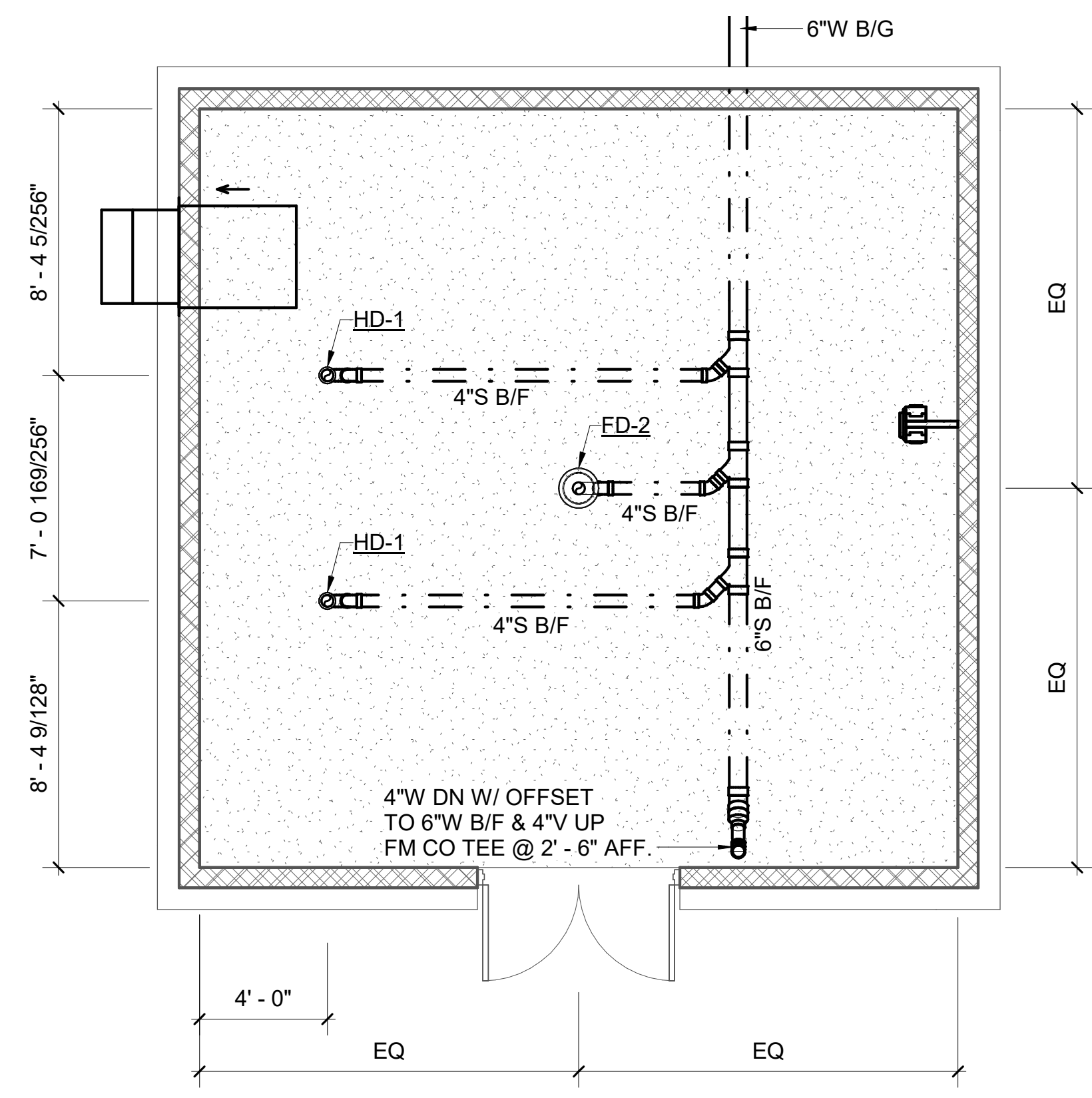
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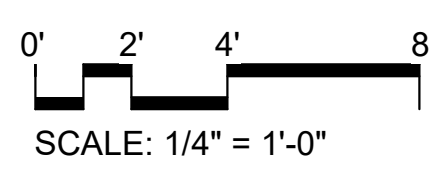


title
UNIT 4 BATT.
CHARGING
ABOVEGROUND
WATER PLAN

sheet
P1.21



1 FIRE PUMP HOUSE PLUMBING PLAN
P1.22



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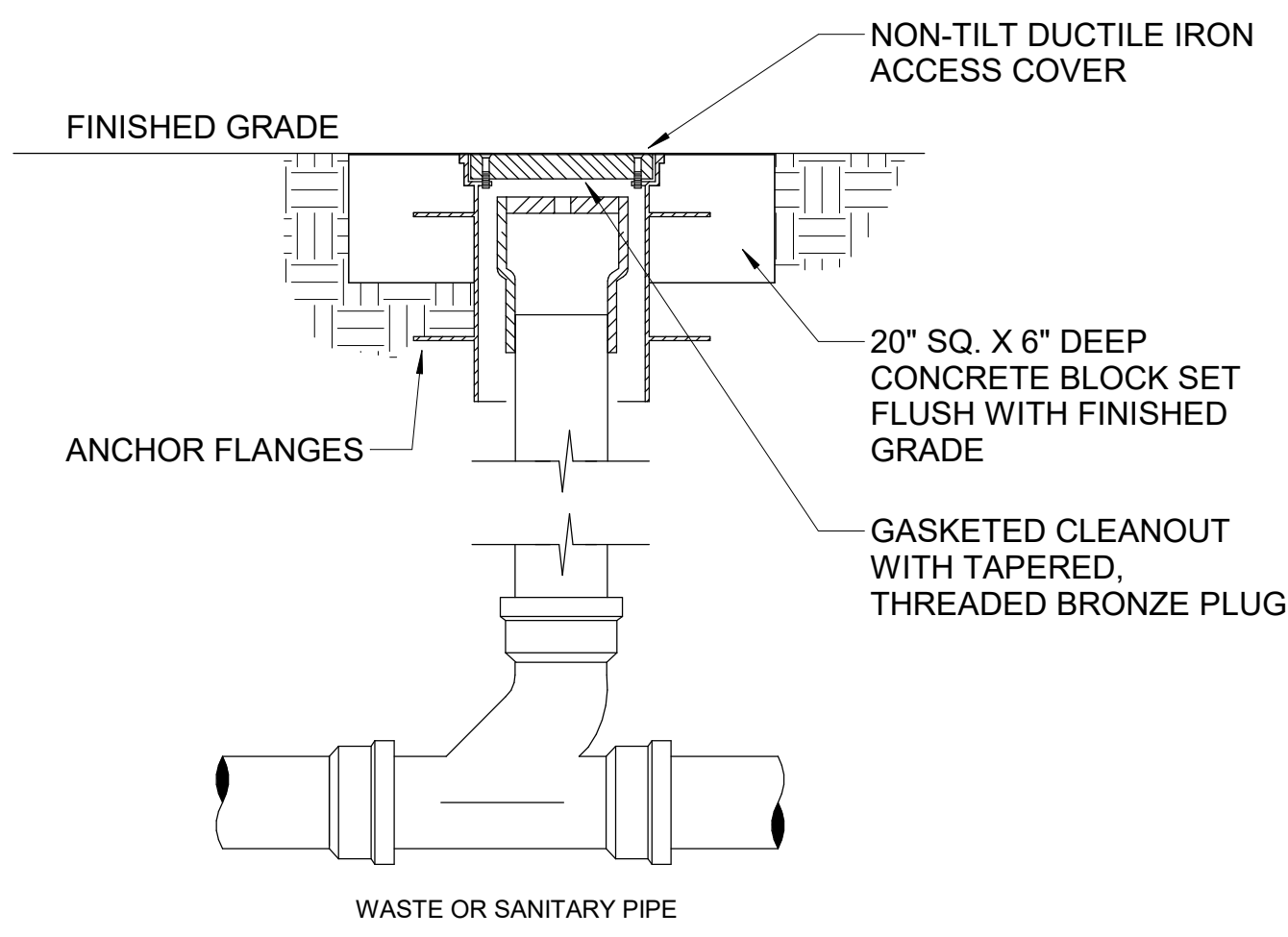
project no. 20-086

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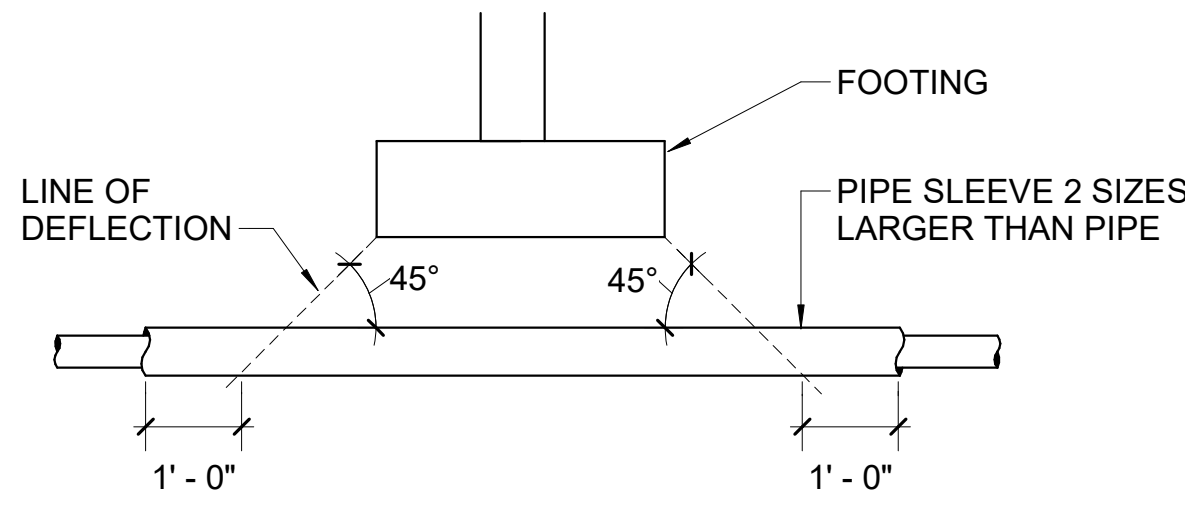
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**BUILDING
PLUMBING PLANS**

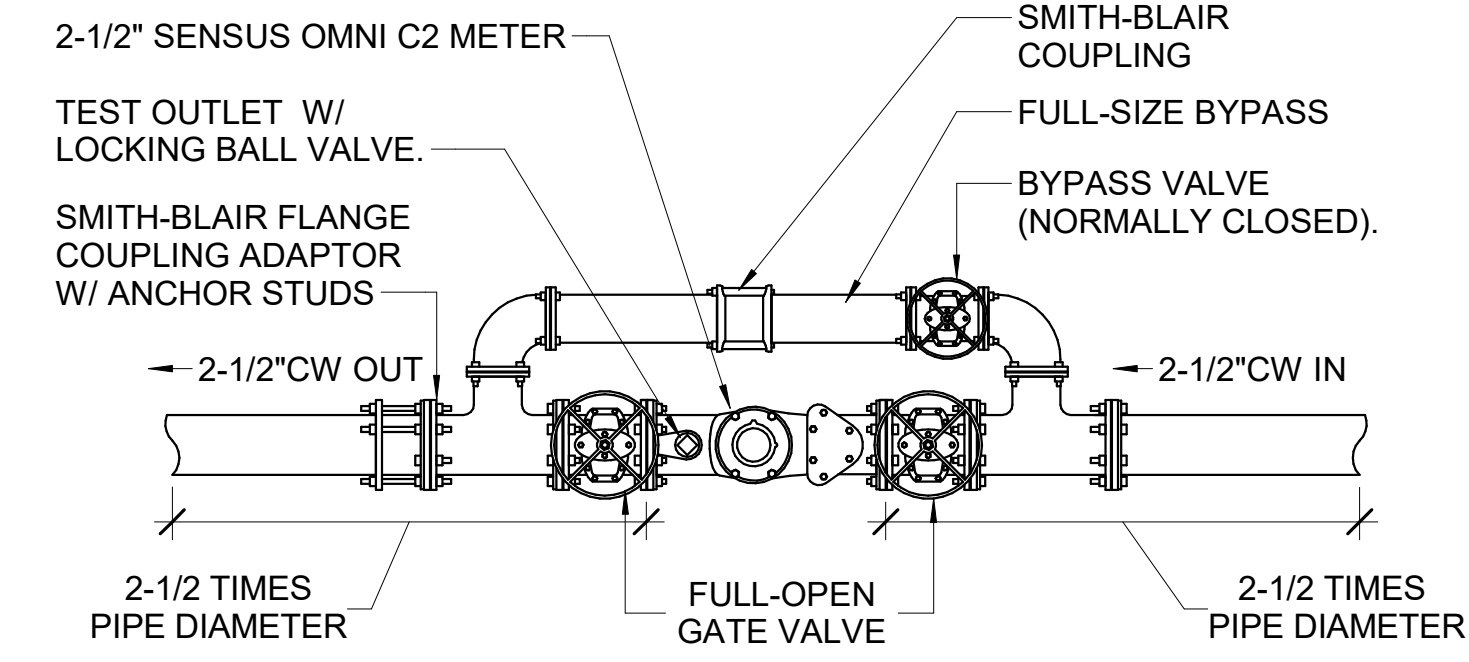
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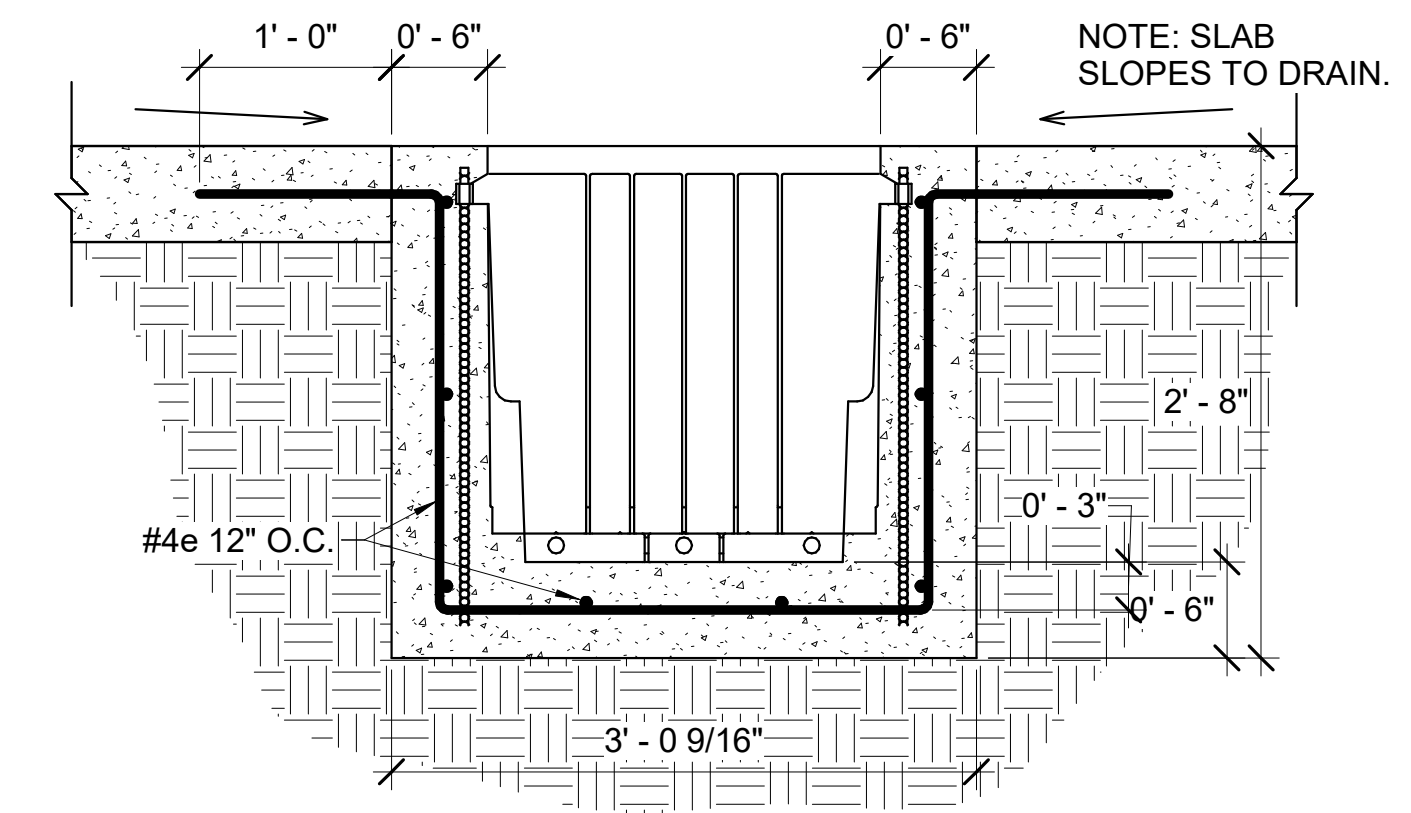
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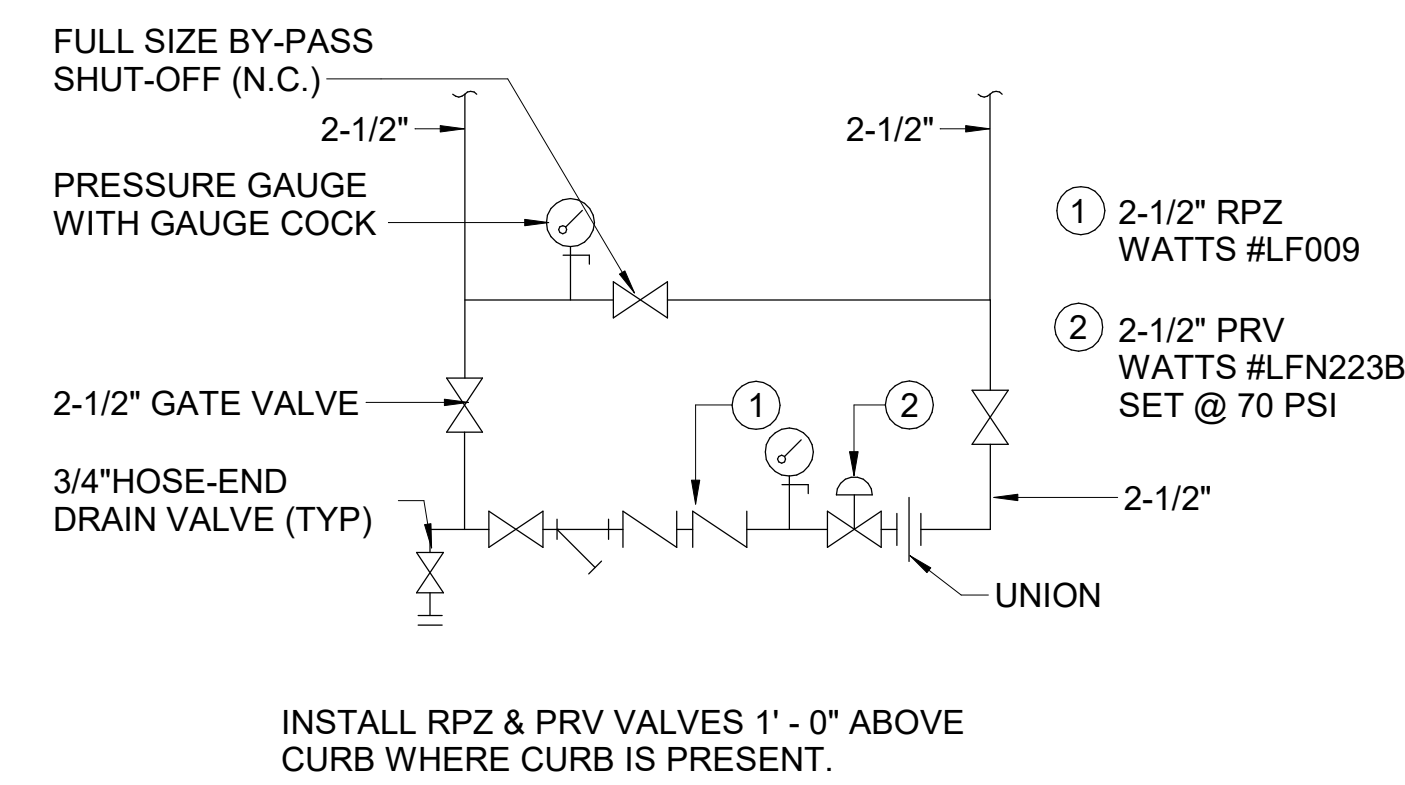
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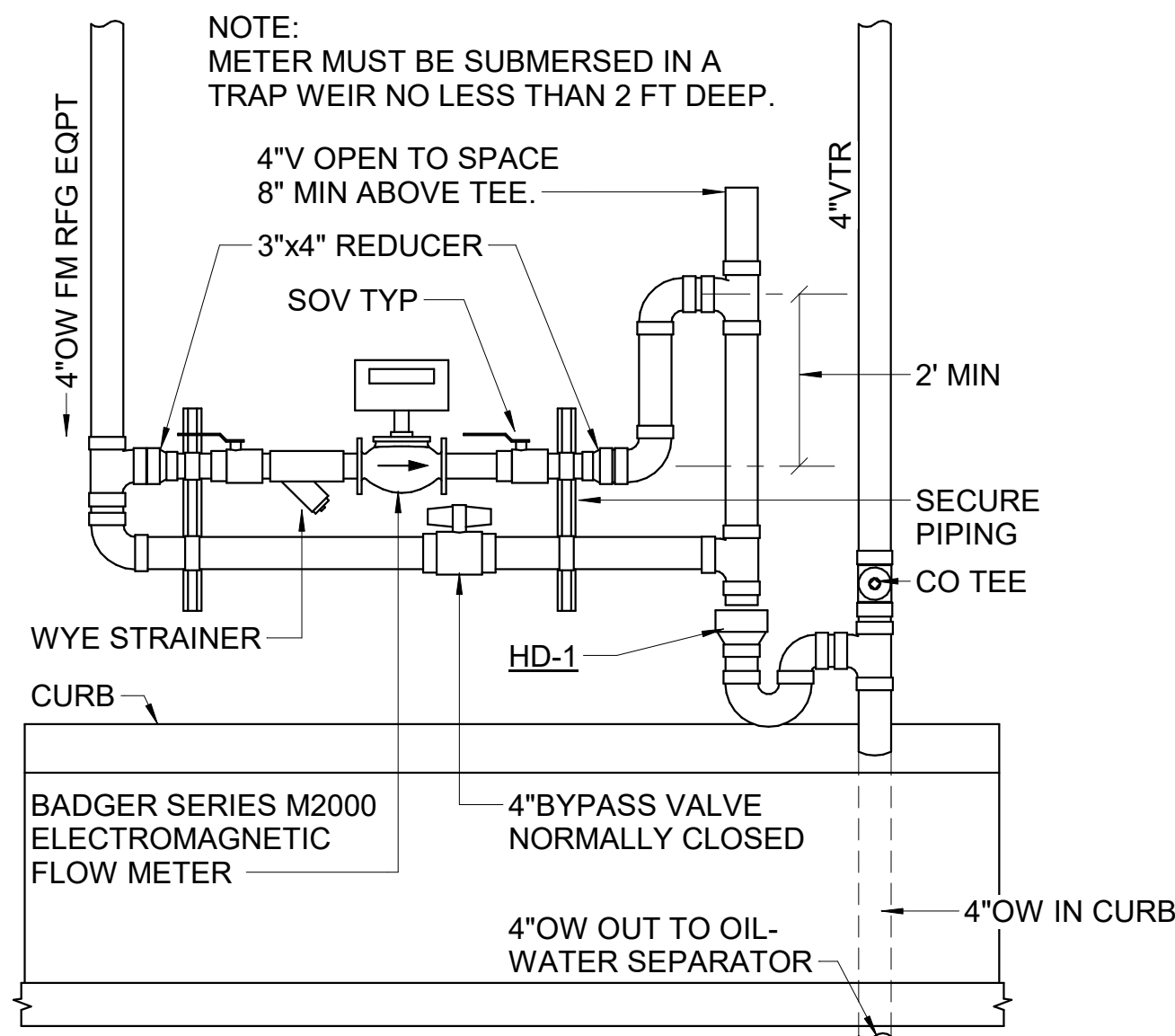
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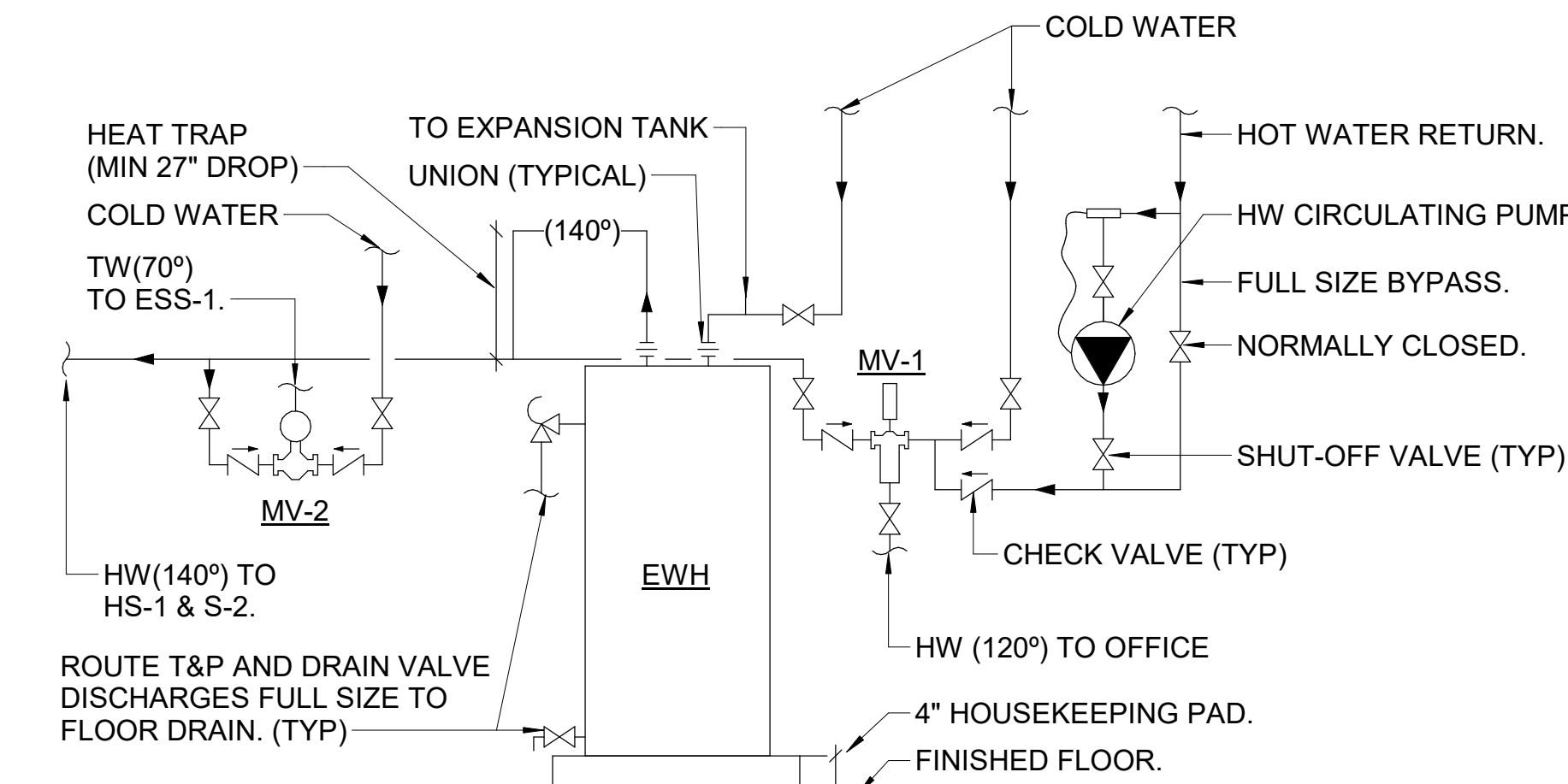
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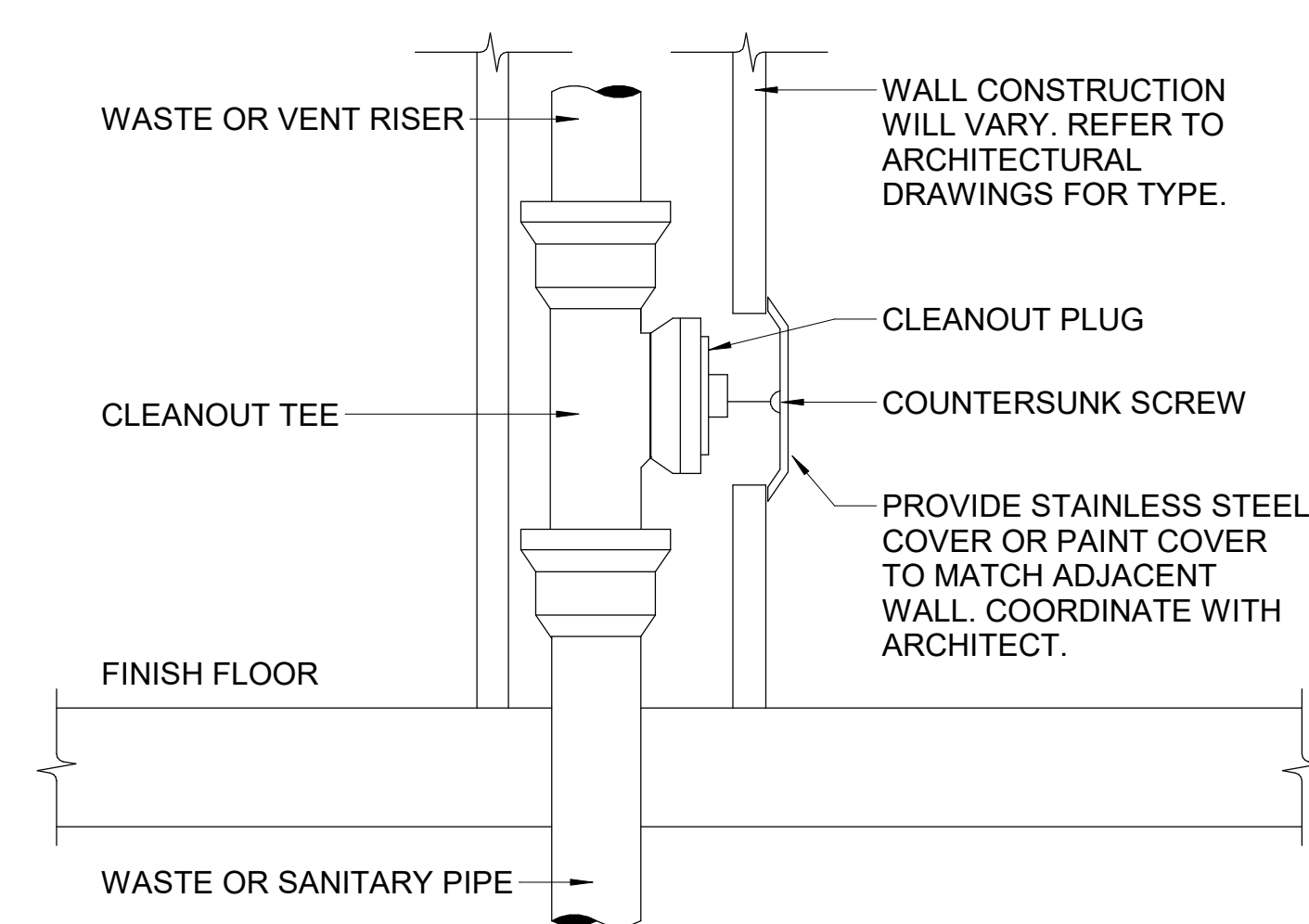
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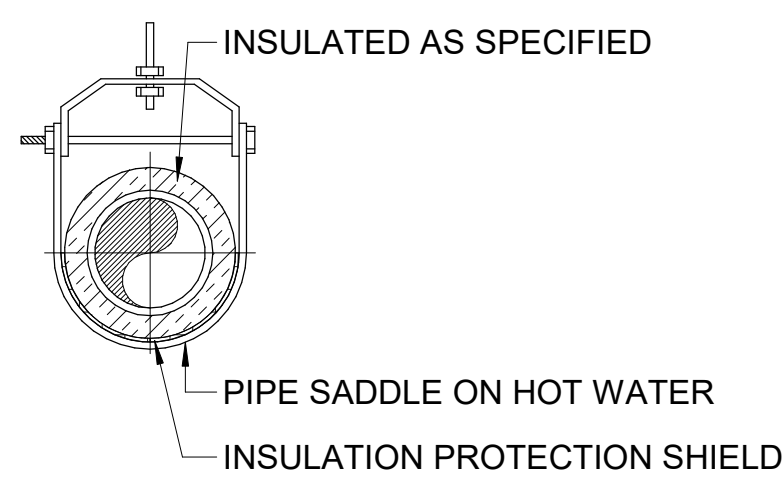
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N.T.S.



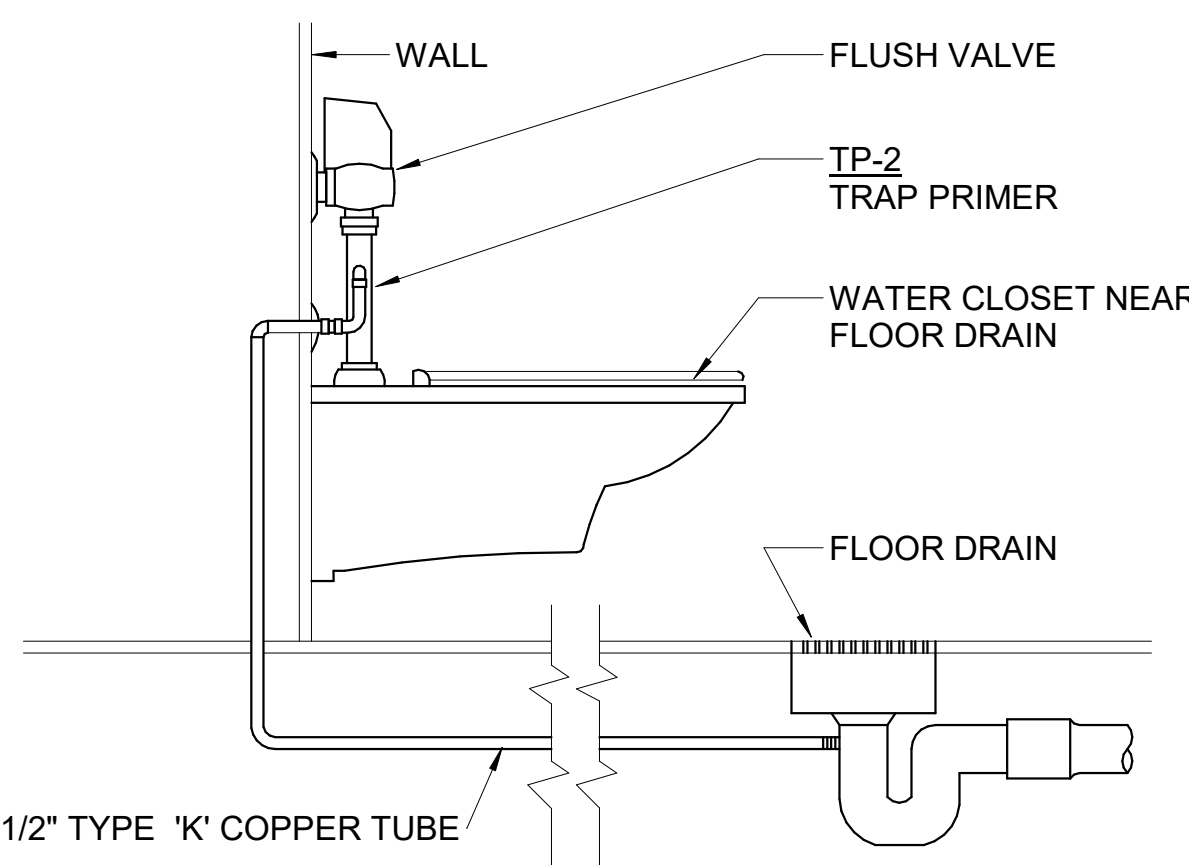
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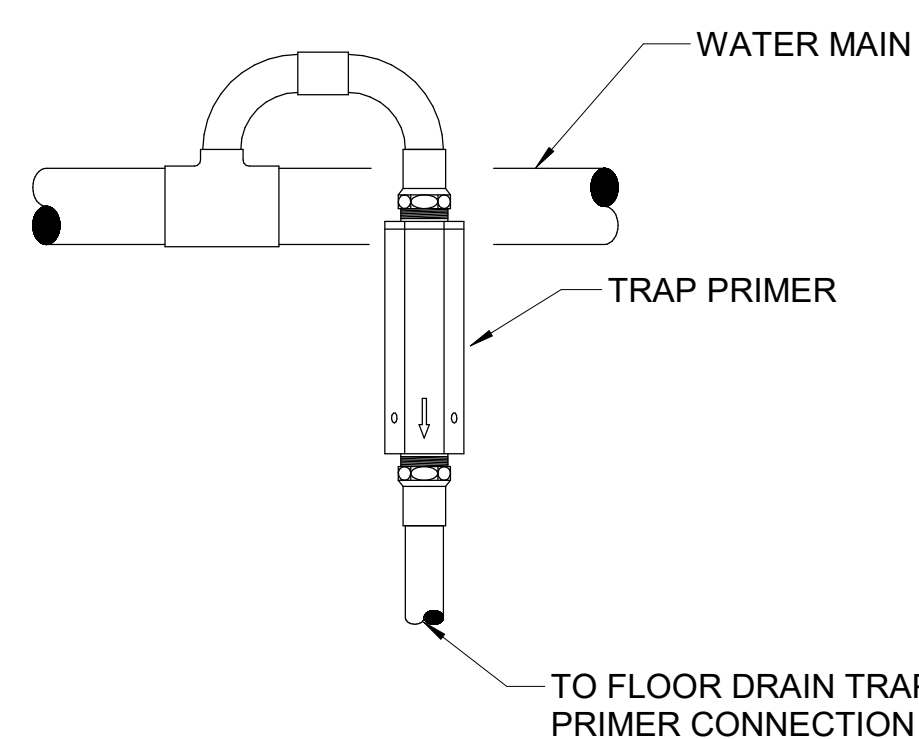
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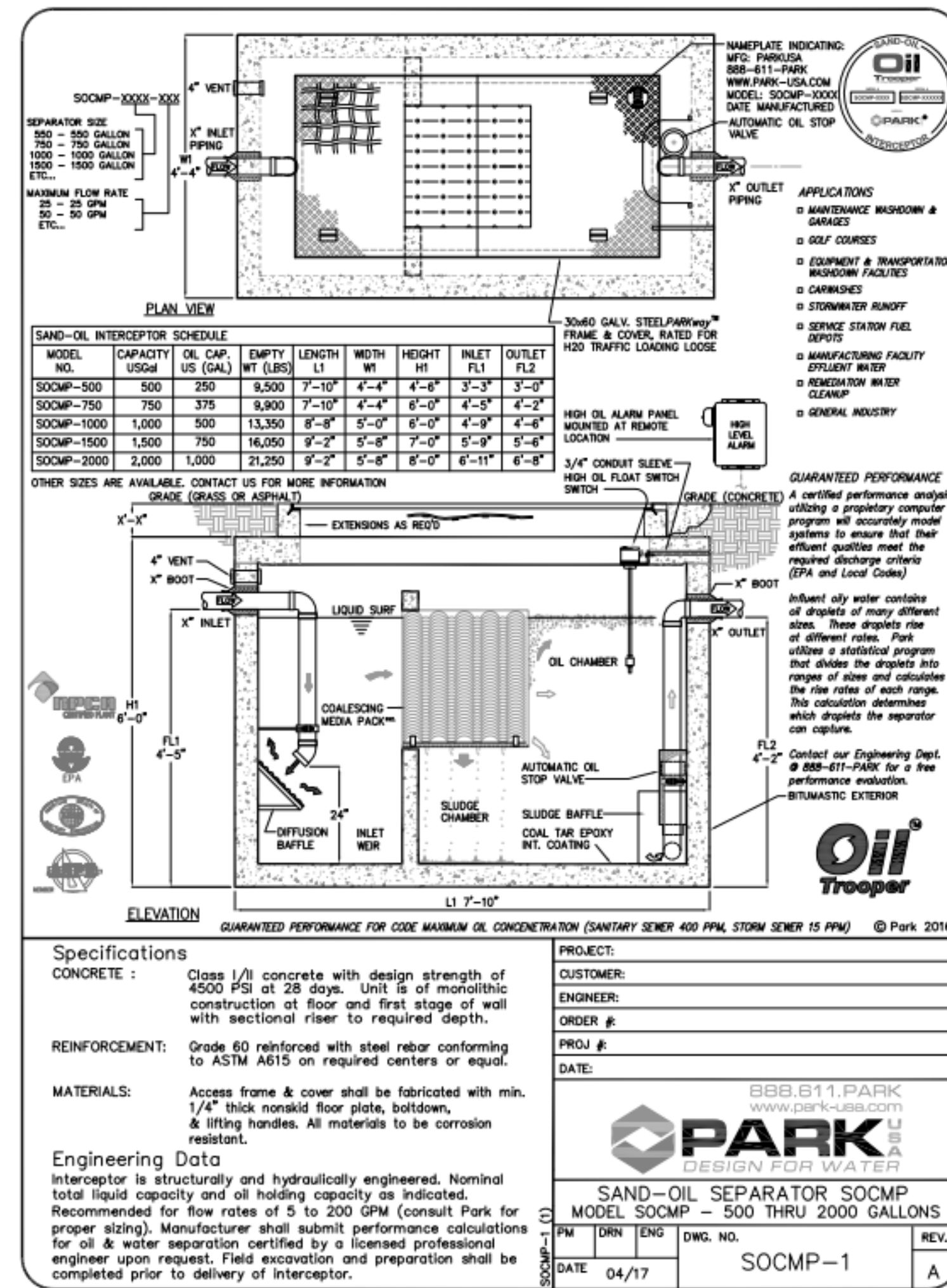
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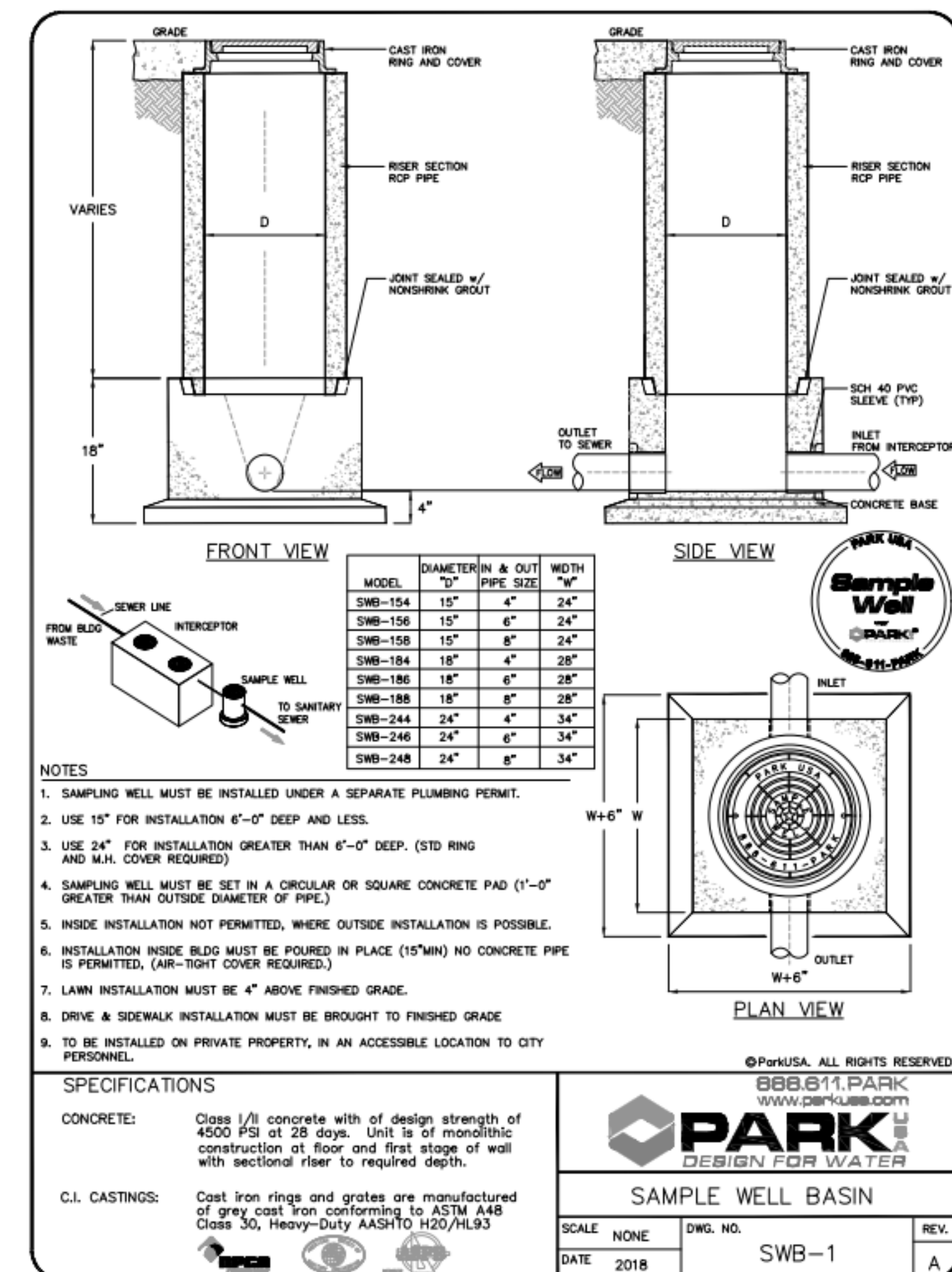
10
P2.1
N.T.S.



11
P2.1
N.T.S.



12
P2.1
N.T.S.



13
P2.1
N.T.S.

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P2.1

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**A NEW
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FACILITY FOR**



**187 RALEIGH STREET
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12/12/2022	ISSUED FOR PERMIT
date	description

drawing status

project no. 20-086

seal

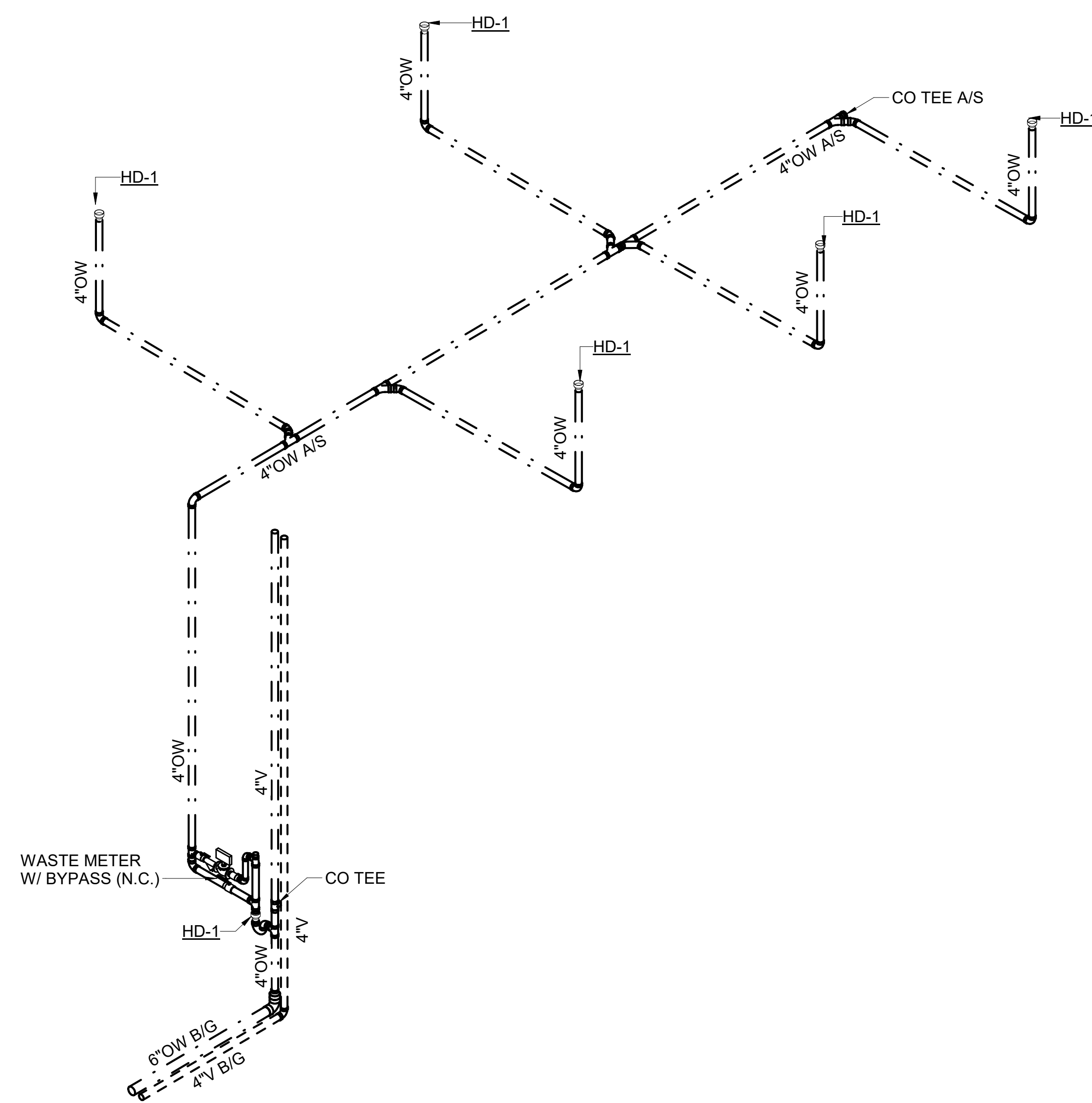


12/12/22

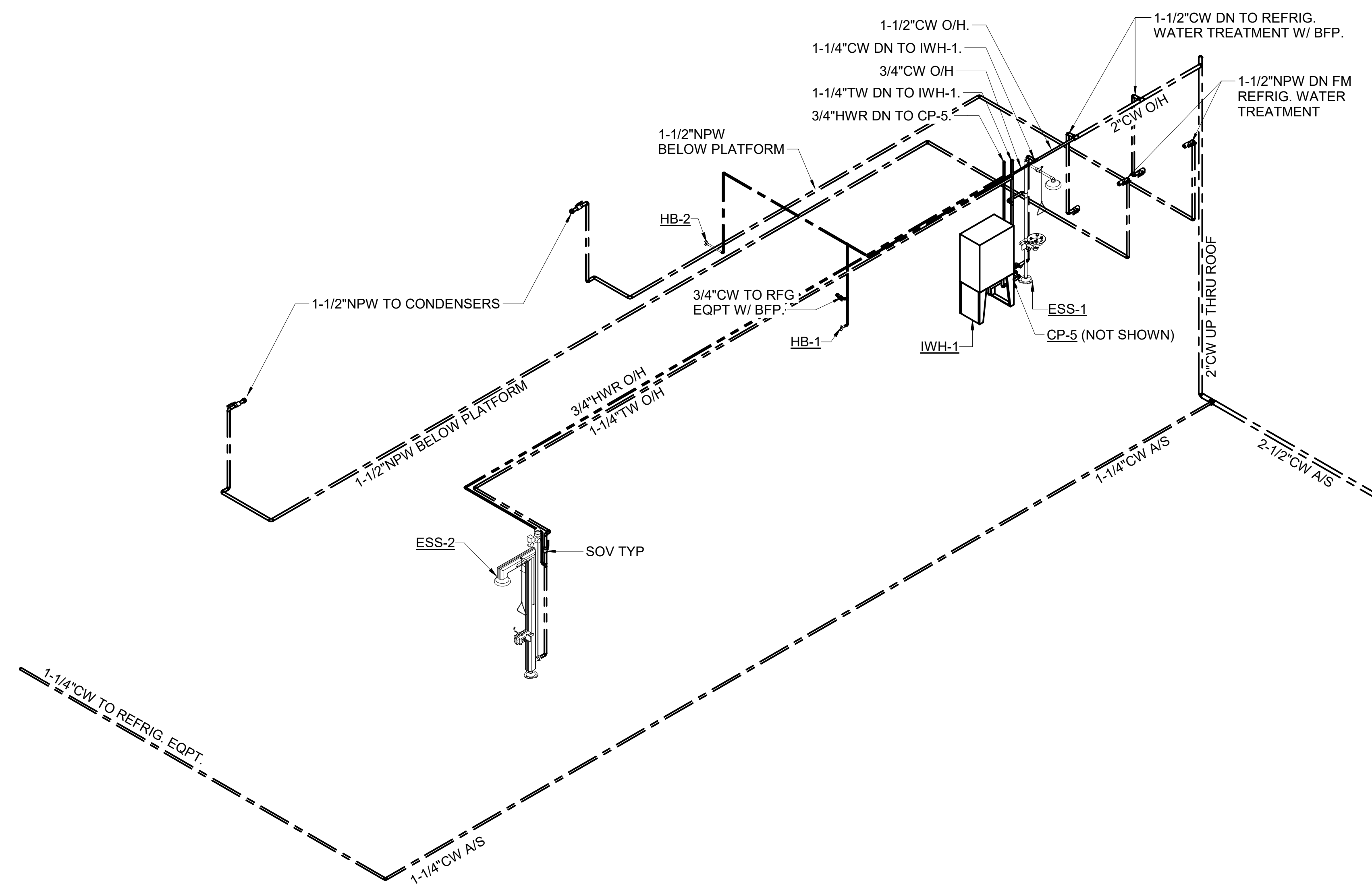
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**UNIT 1 PLUMBING
RISER DIAGRAMS**

sheet

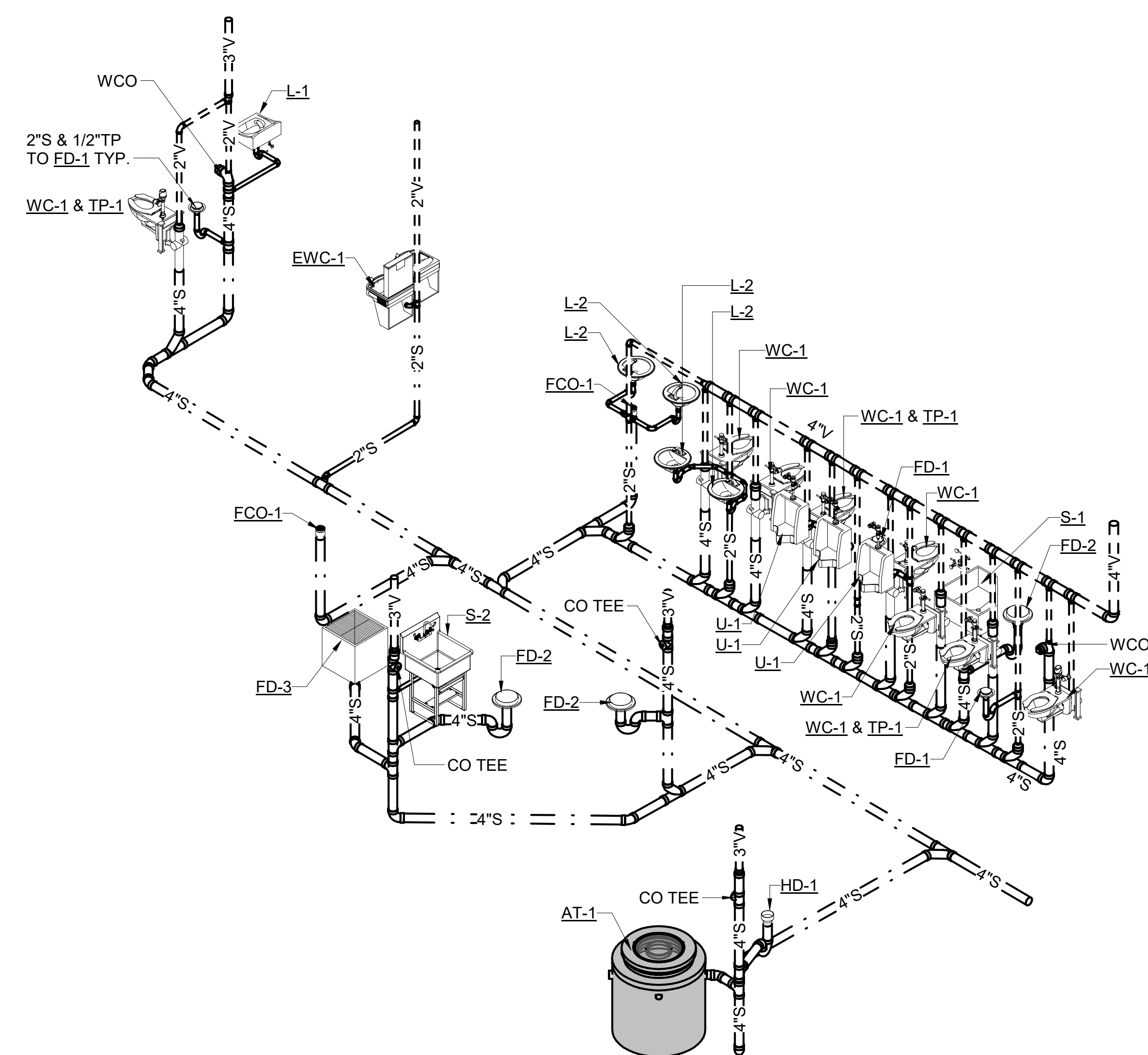
P3.1



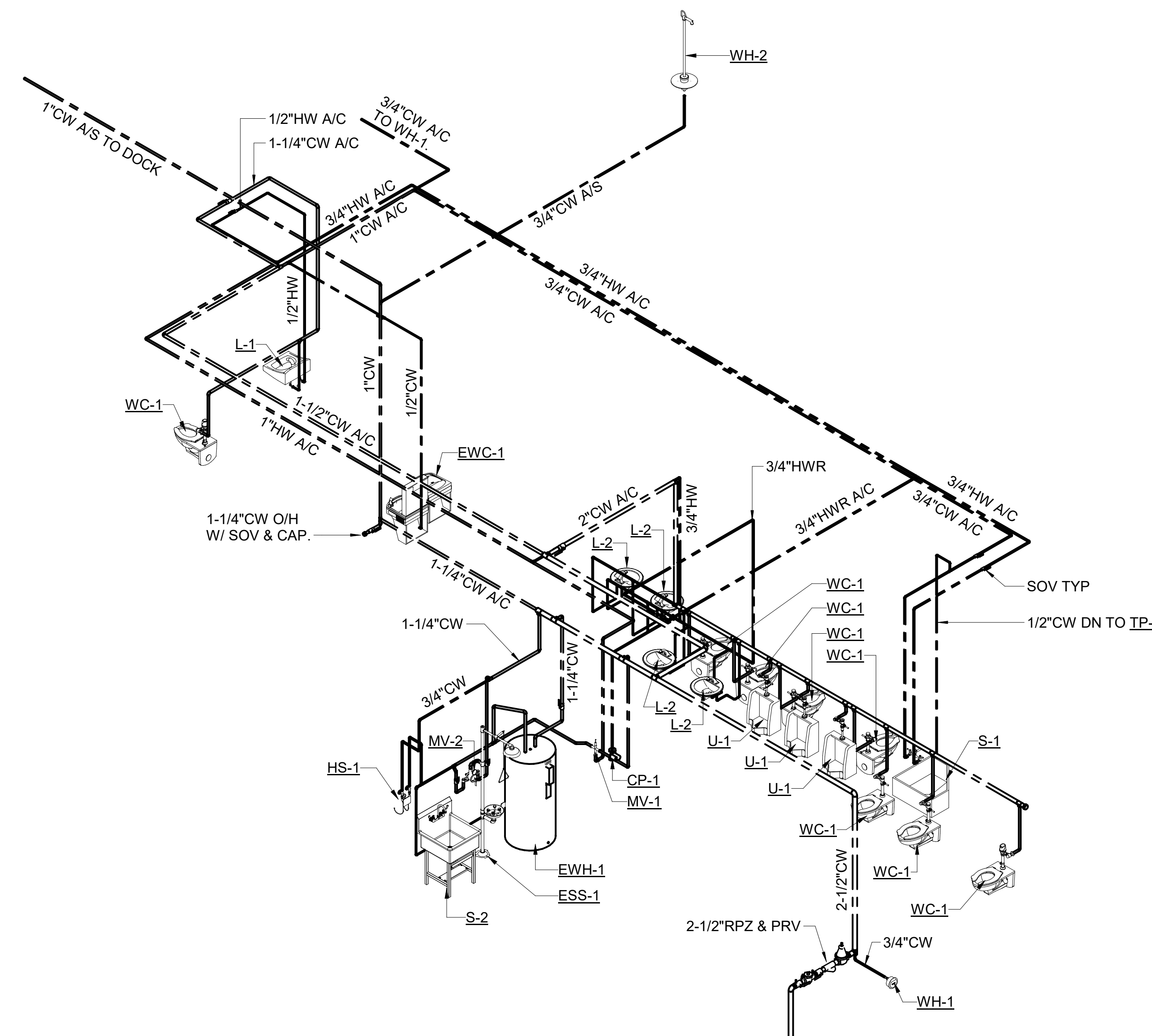
1 OILY WASTE RISER DIAGRAM
P3.1 N.T.S.



2 REFRIGERATION WATER RISER DIAGRAM
P3.1 N.T.S.



3 UNIT 1 SANITARY RISER DIAGRAM
P3.1 N.T.S.



4 UNIT 1 WATER RISER DIAGRAM
P3.1 N.T.S.

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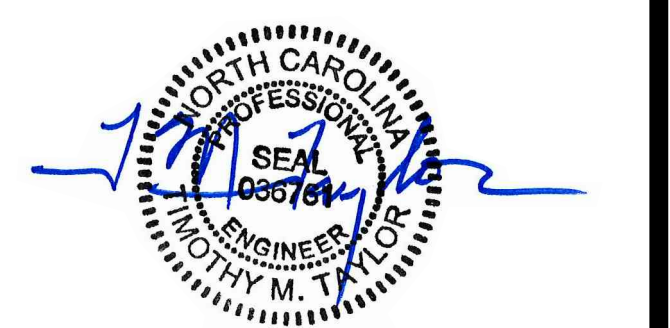
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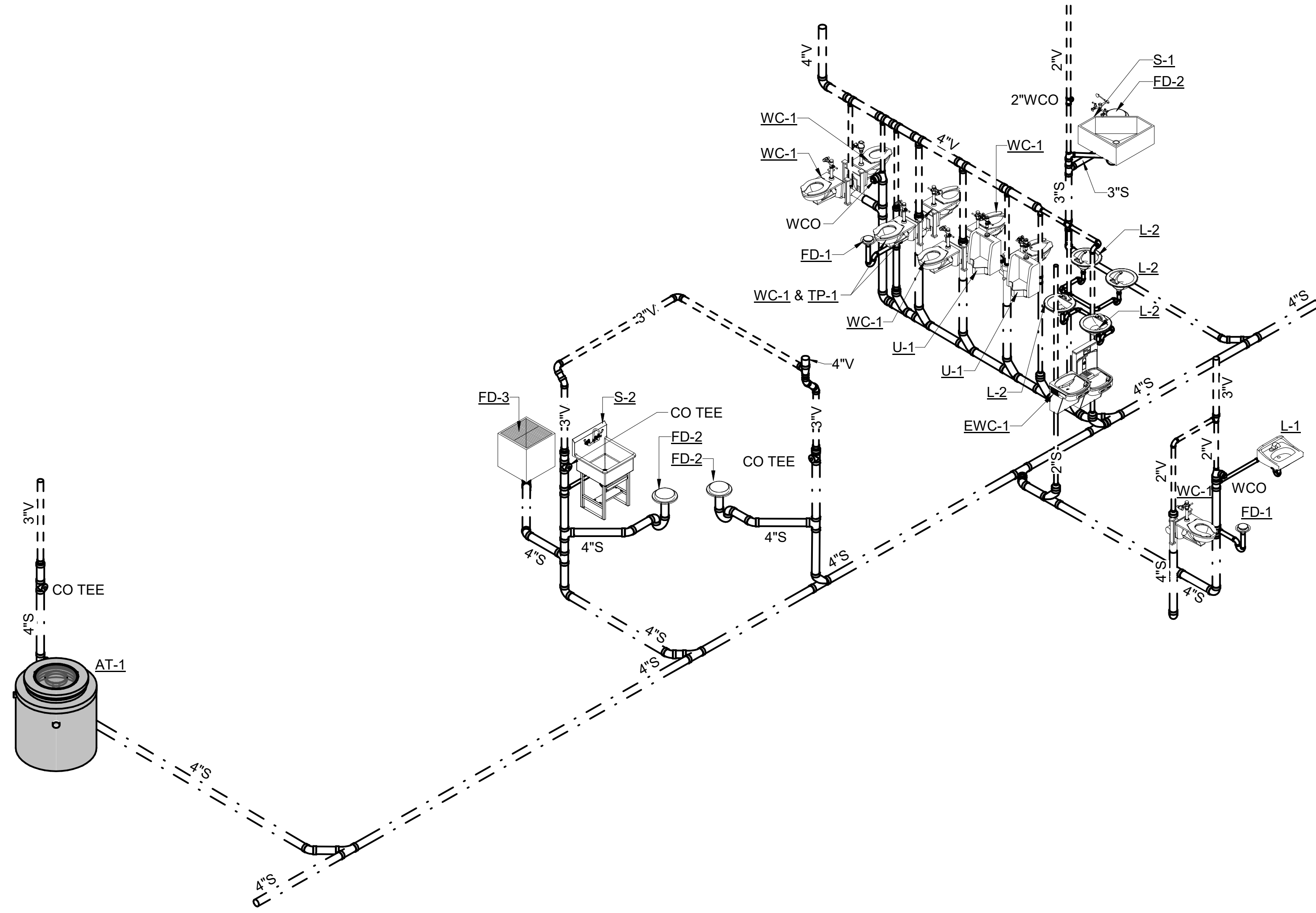
project no. 20-086

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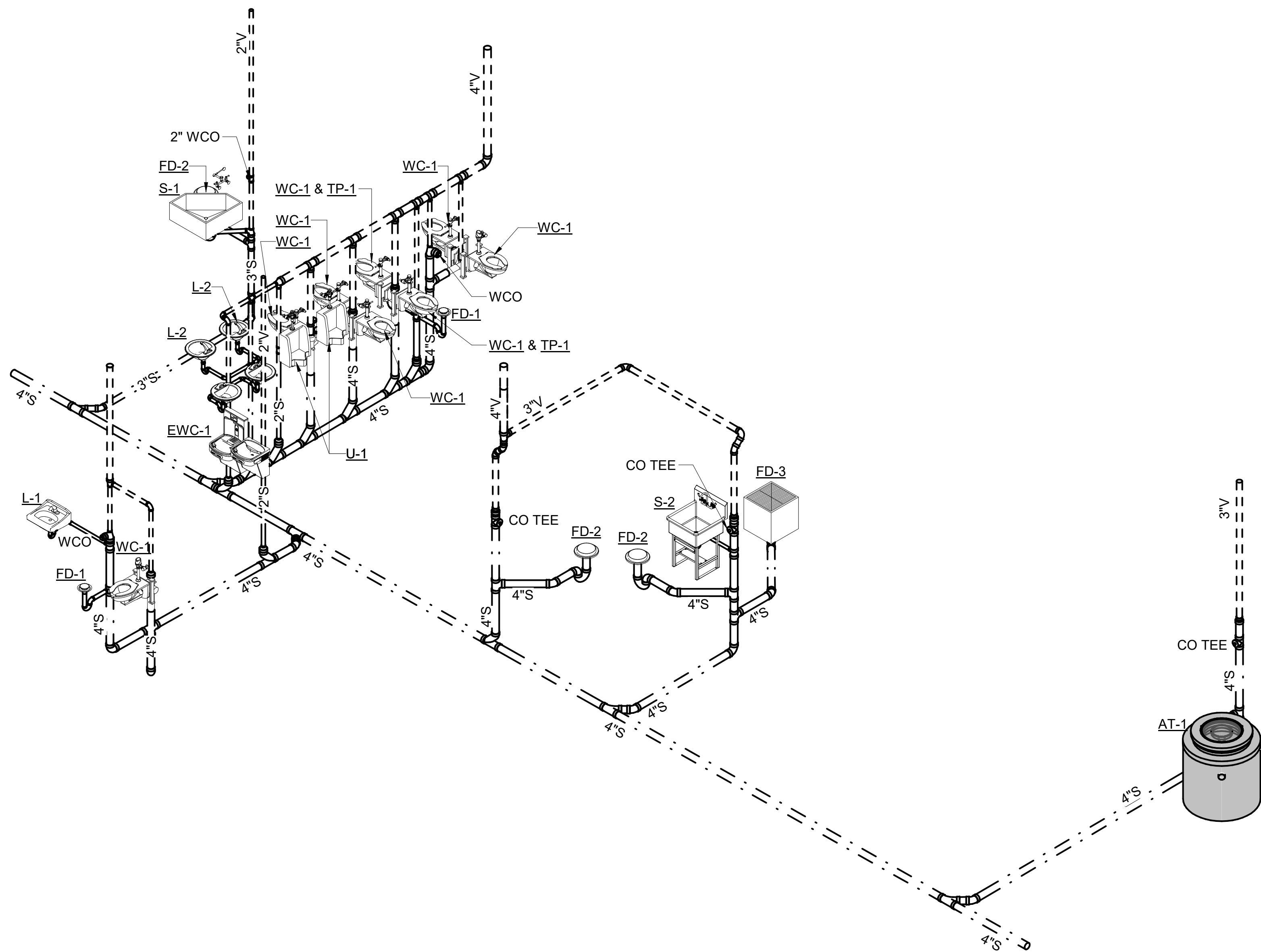


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UNIT 2 AND UNIT 3 PLUMBING RISER DIAGRAMS

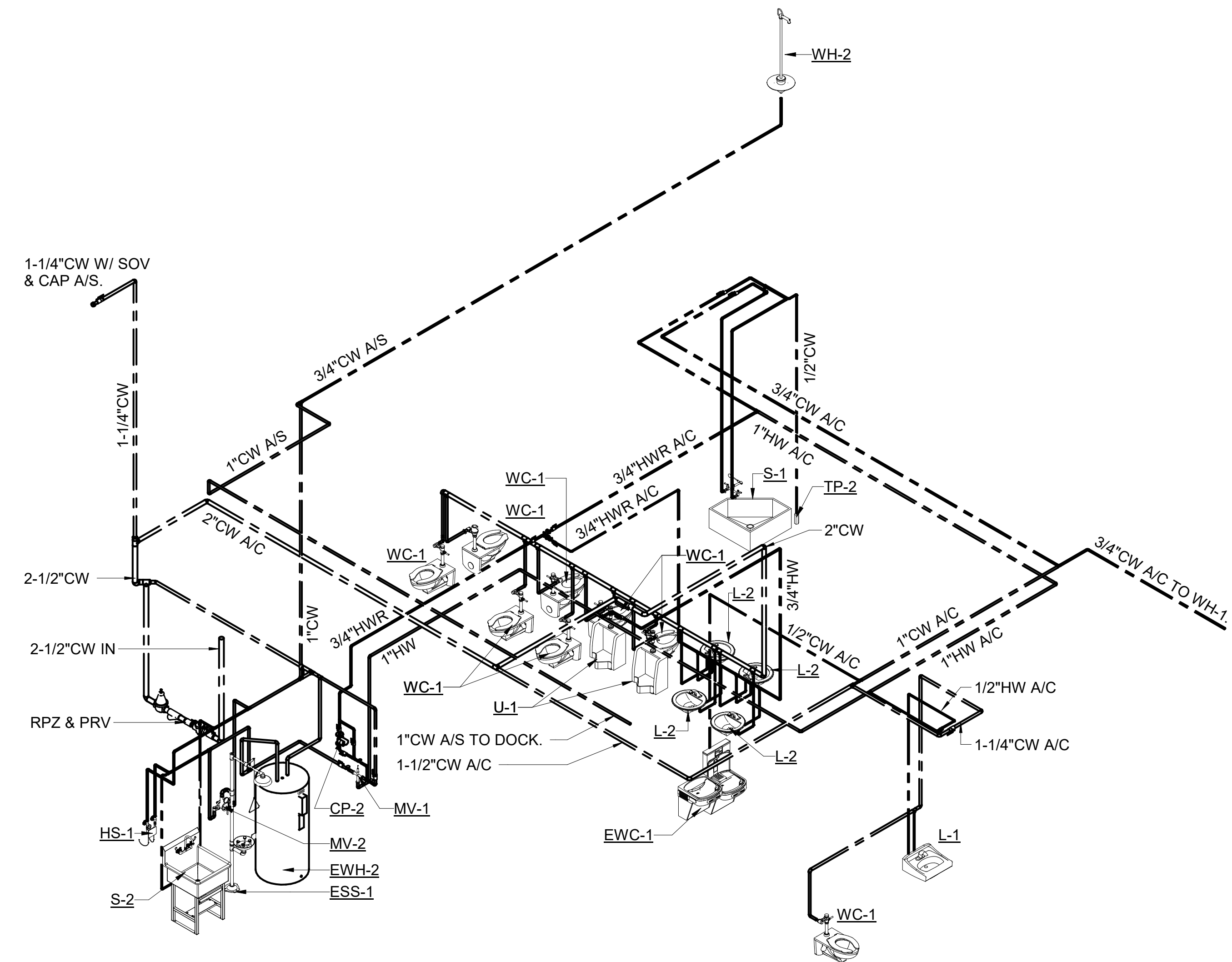
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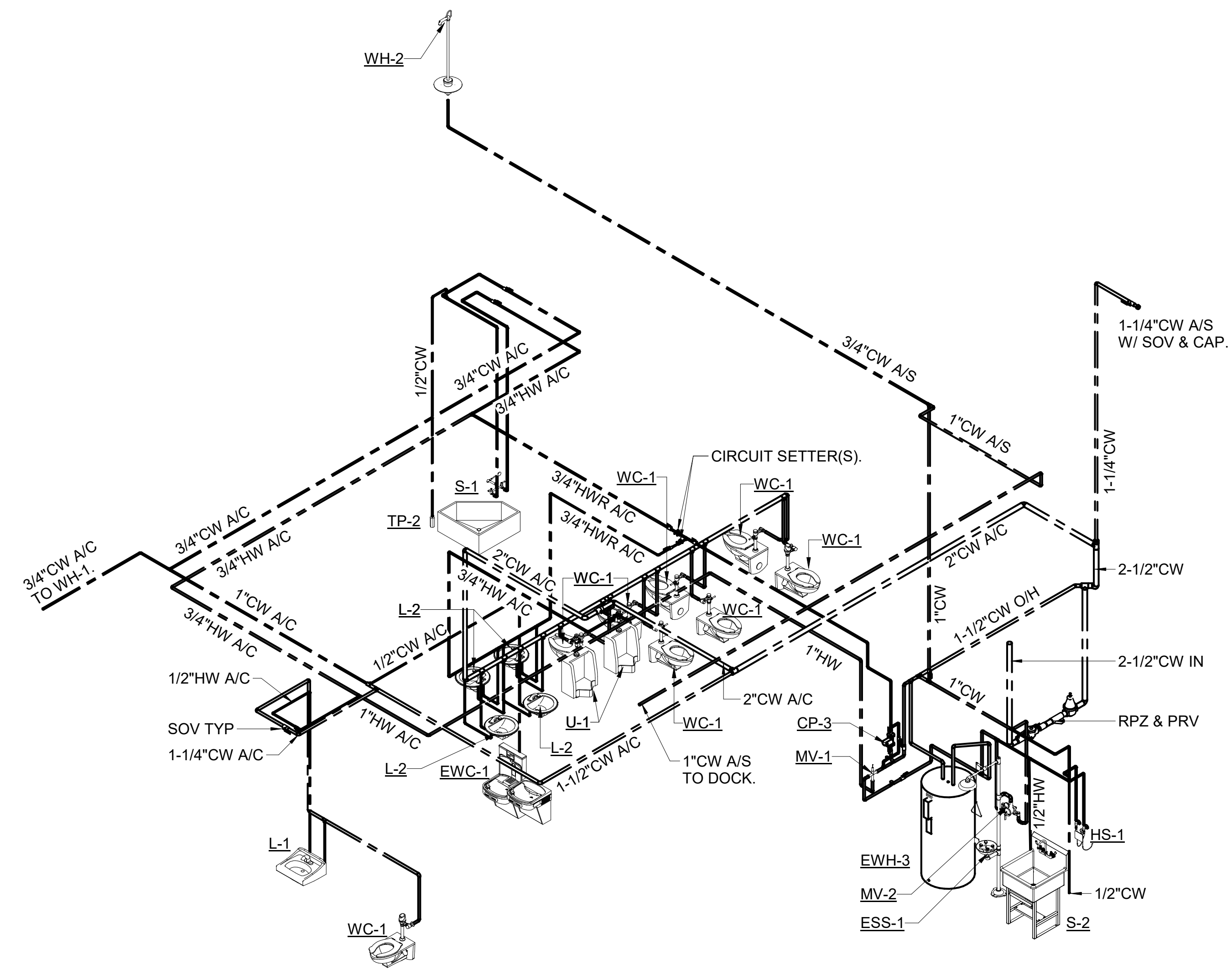
1 UNIT 2 SANITARY RISER DIAGRAM
P3.2 N.T.S.



3 UNIT 3 SANITARY RISER DIAGRAM
P3.2 N.T.S.



2 UNIT 2 WATER RISER DIAGRAM
P3.2 N.T.S.



4 UNIT 3 WATER RISER DIAGRAM
P3.2 N.T.S.

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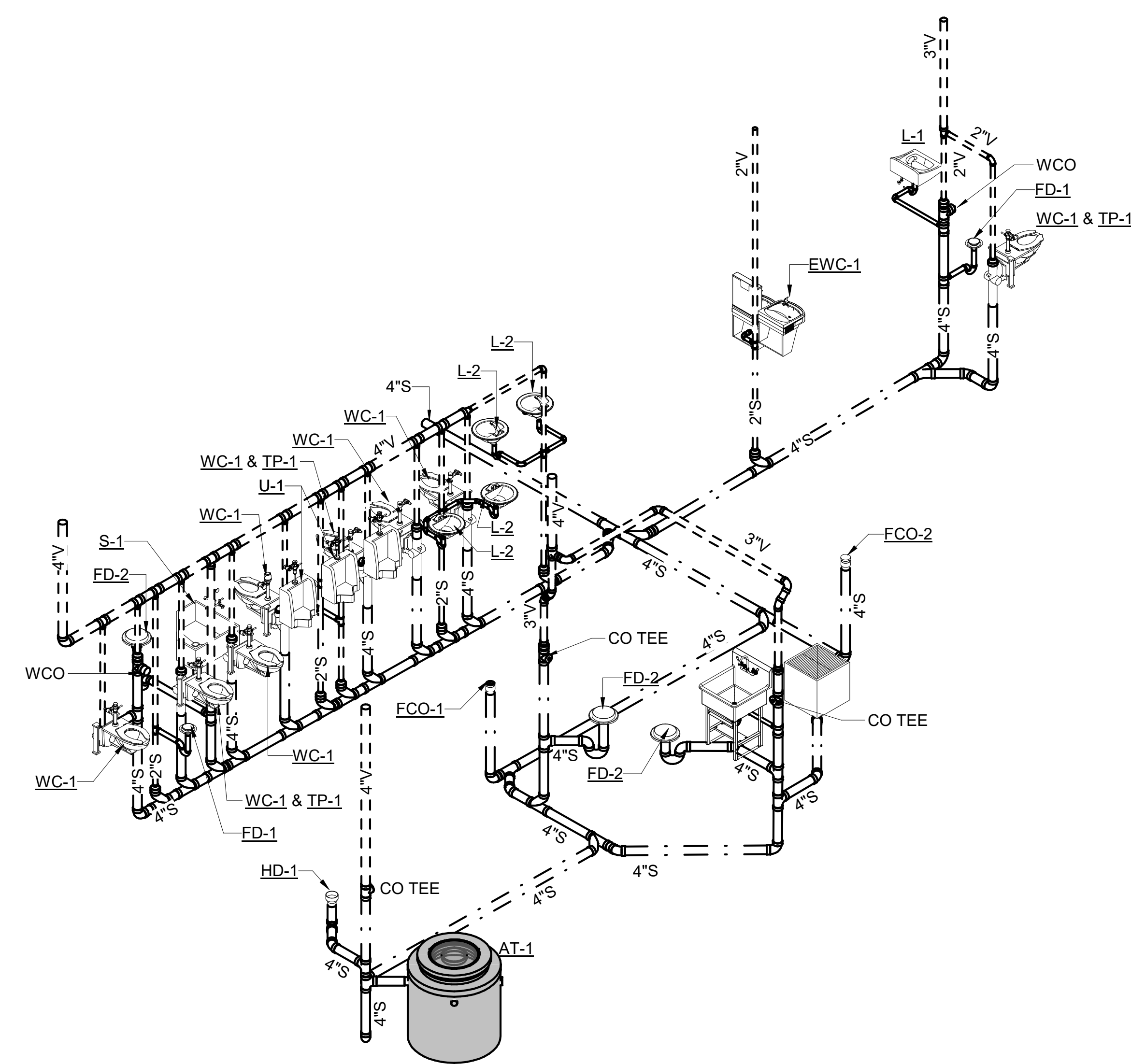
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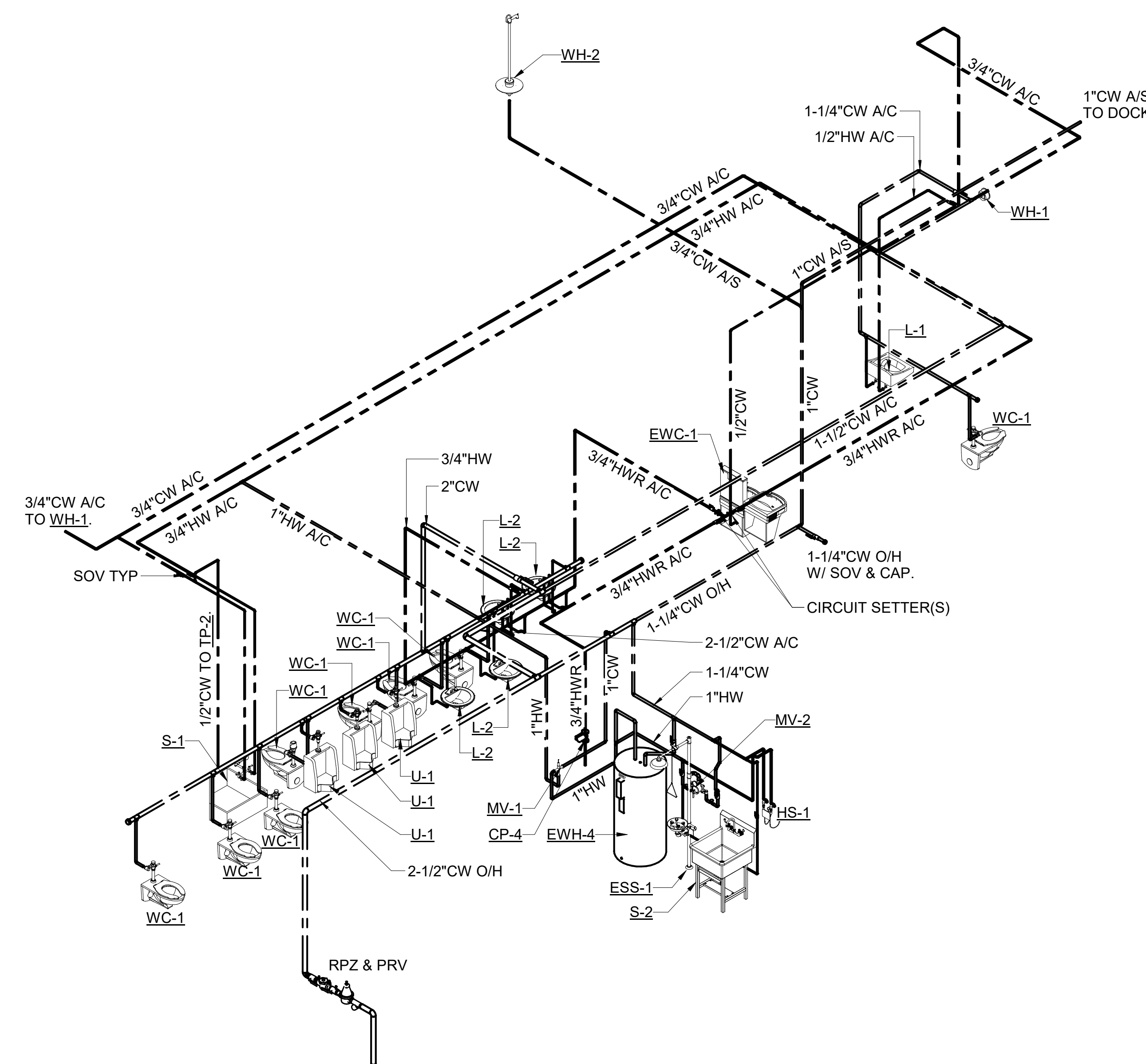
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title
**UNIT 4 PLUMBING
RISER DIAGRAMS**

sheet
P3.3



1 UNIT 4 SANITARY RISER DIAGRAM
P3.3 N.T.S.



2 UNIT 4 WATER RISER DIAGRAM
P3.3 N.T.S.