GENERAL NOTES AND SPECIFICATIONS

GENERAL

- 1. THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR THEIR INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" SHALL MEAN ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION, AND ANY OTHER INCIDENTAL ITEMS OR SERVICES OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS. WHICH SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED OR
- 2. ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE GENERAL CONSTRUCTION SPECIFICATION ARE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF PRINTED HERE IN FULL
- 3. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE ALL FINAL CONNECTIONS, AND LEAVE IN AN APPROVED OPERATING CONDITION.
- 4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE APPLICABLE BUILDING, MECHANICAL, PLUMBING, AND ELECTRICAL CODES, AND FEDERAL, STATE, AND LOCAL REGULATIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND SAFETY, FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, SAFETY BARRICADES, WARNING SIGNS, AND
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES AND OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL DRAWINGS FOR THE BUILDING, AND FOR OTHER TRADES, AND SHALL COORDINATE THE WORK WITH ALL OTHER TRADES, INCLUDING, BUT NOT LIMITED TO, THE CONSTRUCTION DOCUMENTS, SHOP DRAWINGS, ETC. FOR ALL GENERAL CONSTRUCTION, STRUCTURAL, MECHANICAL, AND ELECTRICAL AND SPECIALTY CONTRACTOR WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS PLANNED. WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.
- DRAWINGS ARE DIAGRAMMATIC, SMALL IN SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND DUCTWORK, ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION.
- 9. 2D DRAWINGS WILL BE DERIVED FROM 3D MODEL DATA OR NON-MODEL, COMPUTER-ASSISTED DESIGN DATA (CAD) OR OTHER NON-COMPUTERIZED SOURCES. IF THERE IS A CONFLICT BETWEEN A MODEL CONTRIBUTION AND A PORTION OF THE DESIGN GENERATED IN A 2-DIMENSIONAL MEDIUM THEN DIMENSIONS CALLED FOR IN THE DRAWINGS SHALL TAKE PRECEDENCE OVER A MODEL CONTRIBUTION.
- 10. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL OR CALLED OUT.
- 11. THE CONTRACTOR SHALL PROVIDE ELECTRONIC COPIES OF SUBMITTALS AT ONE TIME, ARRANGED IN A NEAT & ORDERLY MANNER. PARTIAL OR UNMARKED SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE ALL EQUIPMENT, MATERIALS, AND DEVICES FOR REVIEW BY THE ENGINEER. WORK SHALL NOT START UNTIL ALL REVIEWS HAVE BEEN COMPLETED AND THE ITEMS TO BE PROVIDED ARE ACCEPTABLE. ALL MATERIALS AND EQUIPMENT SHALL BE COMMONLY USED ACCEPTABLE GRADES IN THE CONSTRUCTION INDUSTRY AND SHALL BEAR THE "UL", ASME, OR OTHER LABEL WHEN APPLICABLE
- 12. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH COMPLETE SETS OF AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED.
- 13. ALL MATERIALS AND WORKMANSHIP TO BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. IN ADDITION, THE CONTRACTOR SHALL GUARANTEE THAT THE INSTALLATION, WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTOR'S INSTRUCTIONS, WILL DEVELOP CAPACITY AND CHARACTERISTICS INDICATED OR SPECIFIED AND WILL FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS. AND SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO THE CONTRACTOR WILL, WITHOUT DELAY AND WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR IS NECESSARY TO CORRECT THE FAULT AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- 14. CONTRACTOR SHALL CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATIONS OR PROBLEMS SHALL BE TRANSMITTED TO THE ENGINEER FOR REVIEW.
- 15. PROVIDE BASE AND COUNTER FLASHING FOR ITEMS PENETRATING THE ROOF- COORDINATE WITH ARCHITECTURAL REQUIREMENTS.
- 16. CONTRACTOR TO FURNISH AND INSTALL ALL STARTERS, WIRING, CONTROLS, DEVICES AND ALL CONDUIT. FOR A COMPLETE AND OPERABLE SYSTEM.
- 17. ALL WORK SHOWN IS NEW, UNLESS NOTED AS EXISTING.
- 18. MAINTAIN OCCUPANCY AND FIREWALL SEPARATION INTEGRITY AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF ALL OCCUPANCY/FIREWALL SEPARATIONS AND SPECIFIC DETAILS FOR CONSTRUCTION. PROVIDE ALL NECESSARY FIRE DAMPERS, ACCESS DOORS. AND CAULKING, ETC. FOR APPROVED INSTALLATION.
- 19. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE CONTRACT DOCUMENTS AND THE WORK TO BE ACCOMPLISHED.
- 20. ALTERNATIVES TO NAMED ITEMS MAY BE ACCEPTABLE IF SUFFICIENT TECHNICAL INFORMATION DEMONSTRATING EQUALITY IS PROVIDED.
- 21. THE CONTRACTOR SHALL PROVIDE ALL SLEEVES, OPENINGS, CUTTING, AND PATCHING NECESSARY FOR THE INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES REQUIRED AND PAID BY THE CONTRACTOR REQUIRING THE WORK COMPLETE.
- 22. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HANDLING OF MATERIALS AND EQUIPMENT, AND THE NECESSARY PROTECTION FOR MATERIALS AND EQUIPMENT.
- 23. TOOLS AND EQUIPMENT WILL BE STORED IN OWNER DESIGNATED AREAS ONLY.
- 24. THE CONTRACTOR WILL PROTECT THE WORK AND MATERIAL AGAINST DIRT, THEFT, INJURY, OR DAMAGE UNTIL ACCEPTED BY OWNER. ALL WORK SHALL BE TURNED OVER TO OWNER CLEAN AND IN PERFECT CONDITION, READY FOR SATISFACTORY SERVICE.
- 25. PIPES AND/OR CONDUITS PASSING THROUGH WALL, FLOORS, AND PARTITIONS SHALL BE PROVIDED WITH SLEEVES, EXCEPT AS PROHIBITED BY UL LISTING. SLEEVES PASSING THROUGH WATER PROOFING OR DAMP PROOFING SHALL BE WATER TIGHT. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE PROOFED WITH MATERIAL APPROVED AND AS DEFINED FOR THE RATING OF THE STRUCTURE AND UL LISTED.
- 26. EACH CONTRACTOR SHALL PROVIDE ALL FOUNDATIONS, HANGERS, AND SUPPORTS FOR ALL EQUIPMENT SUPPLIED AND/OR INSTALLED UNDER HIS WORK. ANY EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH VIBRATION ISOLATION.
- 27. ALL EQUIPMENT SHALL BE PROVIDED WITH FACTORY FINISH. ALL REQUIRED PAINTING WILL BE PERFORMED UNDER THE GENERAL CONSTRUCTION SECTION OF THE SPECIFICATIONS
- 28. WHERE PIPES OR CONDUITS PASS THROUGH WALLS, FLOORS, OR CEILINGS IN FINISHED AREAS, THEY SHALL BE FURNISHED WITH CHROME PLATED ESCUTCHEON PLATES.
- 29. AT THE CONCLUSION OF THE JOB, EACH PIECE OF EQUIPMENT, VALVE, SWITCH, STARTER, PANEL, PIPE LINE, CONDUIT, ETC., SHALL BE CLEARLY IDENTIFIED WHETHER EXPOSED OR CONCEALED, COVERED OR UNCOVERED. IN ACCORDANCE WITH OSHA AND ANSI REGULATIONS. IDENTIFY PIPES NEAR EACH VALVE WITH "BRANDY-PERMA CODE PIPE TAPE" OR T. & B. WESTLINE "TEL-A-PIPE" INDICATING DIRECTION OF FLOW, SERVICE ZONE, AND SIZE. TAPE SHALL BE APPLIED TO PIPE, CONDUIT, OR COVERING. VALVES, CONTROLS, AND EQUIPMENT IS TO BE IDENTIFIED AS TO FUNCTION AND PURPOSE BY MEANS OF PERMANENTLY ATTACHED LAMINATED PHENOLIC NAMEPLATES WITH BEVELED EDGES AND WHITE LETTERS ON BLACK BACKGROUND.
- 30. AT THE CONCLUSION OF THE WORK, ALL EQUIPMENT AND SYSTEMS SHALL BE CAREFULLY BALANCED, ADJUSTED, AND TESTED TO PROVIDE BALANCED, QUIET-OPERATING, STABLE AND SAFE SYSTEMS. DEMONSTRATE OPERATION OF ALL SYSTEMS TO THE OWNER'S DESIGNATED REPRESENTATIVE.

PRODUCTS

- 1. THIS IS A PERFORMANCE SPECIFICATION. ITEMS NAMED IN SCHEDULES OR ON THE DRAWINGS. ARE INTENDED TO DEFINE THE MINIMUM PERFORMANCE AND CONSTRUCTION STANDARD OF THE ITEM CITED. SUBCONTRACTOR SHALL ONLY CONSIDER 'OR EQUAL' ITEMS. THE DECISION ON WHETHER SUBSTITUTIONS ARE TRULY EQUAL LIES SOLELY WITH THE ENGINEER.
- UNDERGROUND SANITARY, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT (COATED) CAST IRON SOIL PIPE AND FITTINGS. ASTM A74. WITH GASKET HUB AND SPIGOT JOINTS. ASTM C564. GASKET JOINTS FOR CAST IRON PIPE SHALL BE MADE WITH LUBRICATED NEOPRENE COMPRESSION GASKETS. PVC SHALL BE PERMITTED IF ALLOWED BY LOCAL CODE. UNDERGROUND PVC PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS MEETING ASTM D-2564 AND ASTM D-2665.
- ABOVEGROUND SANITARY, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASTM A888 AND CISPI 301, WITH STANDARD NO-HUB COUPLINGS. PVC SHALL BE PERMITTED OUTSIDE OF RETURN AIR PLENUMS. NEOPRENE RUBBER GASKET AND MINIMUM 24 GAUGE TYPE 304 STAINLESS STEEL SHIELD AND FOUR STAINLESS STEEL BANDS FOR SIZES 1 1/2" THROUGH 4". SIX BANDS MINIMUM FOR SIZED 5" AND LARGER. 6" PIPE AND UP: NEOPRENE ELASTOMERIC GASKET AND SERIES 300 STAINLESS STEEL SHIELD AND MULTIPLE DRAW BANDS AND SCREW CLAMPS CONFORMING TO ASTM C-564 AND CISPI STANDARD 310-90. ABOVE-GROUND SANITARY PIPING, LOCATED OUTSIDE OF RETURN AIR PLENUMS MAY ALSO BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS MEETING ASTM D-2564 AND ASTM D-2665 PER OWNER APPROVAL.
- ACID WASTE AND ASSOCIATED VENT PIPING SHALL BE CPVC SCHEDULE 40 PIPE TYPE IV, GRADE AND FITTINGS WITH SOLVENT WELD JOINTS, NSF LISTED, ASTM F2618. SOLVENT WELD JOINTS SHALL BE MADE WITH PIPE MANUFACTURER'S RECOMMENDED SOLVENT.
- UNDERGROUND OILY WASTE AND ASSOCIATED VENT PIPING SHALL BE CAST IRON OR CPVC. CAST IRON SERVICE WEIGHT PIPE (COATED) AND FITTINGS, ASTM A74, WITH GASKET HUB AND SPIGOT JOINTS, ASTM C564. GASKET JOINTS FOR CAST IRON PIPE SHALL BE MADE WITH LUBRICATED NEOPRENE COMPRESSION GASKETS. CPVC SCHEDULE 40 PIPE TYPE IV. GRADE AND FITTINGS WITH SOLVENT WELD JOINTS, NSF LISTED, ASTM F2618. SOLVENT WELD JOINTS SHALL BE MADE WITH PIPE MANUFACTURER'S RECOMMENDED SOLVENT.
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- 7. ALL WASTE PIPING 1" IN SIZE AND SMALLER SHALL BE TYPE "L" HARD DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS. SOLDERED JOINTS FOR TYPE 'L' COPPER TUBING AND CAST DWV BRONZE PIPE SHALL BE MADE WITH 95-5 TIN-ANTIMONY (NO LEAD) SOLDER AND COMPATIBLE FLUX
- 8. UNDERGROUND WATER SERVICE PIPING 2 1/2" IN SIZE AND SMALLER (TO A POINT 1'-0" ABOVE THE FINISHED FLOOR) SHALL BE TYPE "K" HARD DRAWN COPPER TUBING, ASTM B88, WITH BRAZED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS BRAZED JOINTS SHALL BE MADE USING BCUP-5 BRAZING ALLOY WITH A COMPATIBLE FLUX.
- UNDERGROUND WATER SERVICE PIPING 3" IN SIZE AND LARGER (TO A POINT 1'-0" ABOVE THE FINISHED FLOOR) SHALL BE MECHANICAL JOINT DUCTILE IRON COATED WITH 8 MIL POLYETHYLENE. ANSI A21.11. ANSI A21.50. AND ANSI A21.51. MECHANICAL JOINT FITTINGS. ANSI A21.10 AND ANSI A 21.11.
- 10. ABOVE-GROUND WATER PIPING 4" AND SMALLER SHALL BE. TYPE "L" HARD DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS. SOLDER JOINTS SHALL BE MADE USING A 95-5 TIN-ANTIMONY SOLDER (NO-LEAD SOLDER) WITH A COMPATIBLE FLUX.
- 11. UNDERGROUND WATER PIPING TO TRAP PRIMERS OR HVAC CONDENSATE PUMP DISCHARGE SHALL BE TYPE "K" SOFT DRAWN COPPER TUBING, ASTM B88, WITHOUT FITTINGS.
- 12. PIPE INSULATION: ALL PIPING, (HOT & COLD) ABOVE GROUND SHALL BE INSULATED WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET. WHERE CLEARANCE & LIMITATION PREVENT THE USE OF FIBERGLASS INSULATION, 1/2" THICK CLOSED CELL NEOPRENE PIPE INSULATION MAY BE USED.
- 13. UNDERGROUND STEEL PIPE AND FITTINGS INCLUDING THE PORTION THROUGH THE FLOOR SHALL BE PROTECTED AGAINST CORROSION BY APPLICATION OF PROTECTIVE COATINGS AND TAPES. PRIOR TO COATING, PIPE AND FITTINGS SHALL BE CLEANED OF ALL RUST, SCALE, DIRT AND OIL. PIPES AND FITTINGS SHALL BE GIVEN TWO COATS OF A COAL-TAR BASE BITUMINOUS PROTECTIVE COATING, EACH HAVING A DRY FILM THICKNESS OF 7-9 MILS. THE COMBINED THICKNESS OF BOTH COATS COMBINED SHALL BE 15-18 MILS. FIELD APPLIED WRAPPING TAPE FOR FITTINGS AND JOINTS SHALL BE COAL TAR WITH HEAVY VINYL OR POLYESTER FILM BACKING MEETING FEDERAL SPECIFICATION HH-T-30A, TAPECOAT CT OR TAPECOAT 20 OR JT JOINT COATINGS, INC., WITH PRIMER, APPLICATION PROCEDURES AND HEATING IN ACCORDANCE WITH THE TAPE MANUFACTURER'S RECOMMENDATIONS.

EXECUTION

- 1. DIELECTRIC FITTINGS SHALL BE USED WHEREVER DISSIMILAR METALS ARE JOINED.
- 2. FLANGED JOINTS SHALL BE MADE WITH RING TYPE NON-METALLIC GASKETS, BOLTS AND NUTS.
- 3. THREADED JOINTS SHALL BE MADE WITH A MIXTURE OF GRAPHITE AND OIL APPLIED TO MALE THREADS ONLY. AFTER CUTTING AND PRIOR TO THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED. THREADED JOINTS AT EQUIPMENT CONNECTIONS SHALL BE MADE UP WITH TEFLON TAPE. AFTER CUTTING BUT PRIOR TO THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED.
- 4. BRAZED JOINTS SHALL BE MADE UP USING BCUP-5 BRAZING ALLOY WITH A COMPATIBLE FLUX.
- 5. WELDED JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH ANSI B31, SECTION 6.
- 6. VACUUM BREAKERS SHALL BE PROVIDED ON ALL HOSE OUTLETS, HOSE BIBS AND HYDRANTS UNLESS THE DRAWINGS INDICATE THAT A BACKFLOW PREVENTER IS TO BE PROVIDED ON THE PIPING SERVING THE OUTLET.
- CONNECT HOT AND COLD WATER PIPING SYSTEM TO EQUIPMENT AS INDICATED, AND COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SHUT-OFF BALL VALVE AND UNION FOR EACH CONNECTION. PROVIDE DRAIN VALVE ON DRAIN CONNECTIONS. PROVIDE SINGLE SHUTOFF BALL VALVE FOR HEADERS SERVING HOT OR COLD WATER TO MULTIPLE FIXTURES WITHIN A SINGLE WALL OR CHASE. PROVIDE ACCESS PANEL FOR VALVES INSTALLED ABOVE HARD CEILINGS.
- ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED UNDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AT THE END OF THE RETENTION PERIOD NO LESS THAN 50 PPM OF CHLORINE SHALL BE PRESENT IN THE EXTREME END OF THIS SYSTEM. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS - (0.2) - PARTS PER MILLION. THE CONSTRUCTION MANAGER SHALL SUBMIT TO THE ARCHITECT WRITTEN CERTIFICATION THAT THE SYSTEM WAS DISINFECTED. CERTIFICATION SHALL INCLUDE NAME OF PROJECT, NAME OF OWNER, DATE OF DISINFECTION, TIME OF DISINFECTION PERIOD, MAXIMUM CHLORINE LEVEL AND RESIDUAL CHLORINE LEVEL.
- PROVIDE FLEX HOSE CONNECTION TO ALL INDOOR APPLIANCES NOT SUPPLIED WITH THE EQUIPMENT PIECE BY THE OWNER OR EQUIPMENT PROVIDER.
- 10. PROVIDE VALVE AND UNION AT EACH CONNECTION TO A PIECE OF EQUIPMENT. EQUIPMENT PROVIDED WITH A FLANGED INLET SHALL HAVE A FLANGED CONNECTION.
- 11. PROVIDE SEISMIC HANGERS AND BRACING PER LOCAL AREA REQUIREMENTS.

GALLONS PER MINUTE

HOSE BIBB

HUB DRAIN

HORIZONTAL

HOT WATER

HORSE POWER

IRON PIPE SIZE

HOT WATER RETURN

INVERT ELEVATION

HEADER

HB

HDR

HORIZ

ABV	ABOVE	KW	KILOWATT
AC A/C	AIR CONDITIONING ABOVE CEILING		LAVATORY
A/C AD	AREA DRAIN	L LBS	POUNDS
AFF	ABOVE FINISHED FLOOR	LF	LINEAR FEET
AFG ANSI	ABOVE FINISHED GRADE AMERICAN NATIONAL STANDARDS INSTITUTE	MAX	MAXIMUM
ANSI	ACCESS PANEL	MBH	THOUSAND BTU PER HOUR
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH A/S	ARCHITECT(URAL) AT STRUCTURE	MH MIN	MANHOLE MINIMUM
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MISC	MISCELLANEOUS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	. 1/0	NOT A DRIVINA DUE
AW @	ACID WASTE AT	N/A NC	NOT APPLICABLE NORMALLY CLOSED
&	,	NIC	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	NFRH	NON-FREEZE ROOF HYDRANT
B/F B/G	BELOW FLOOR BELOW GRADE / GROUND	NFWH NG	NON-FREEZE WALL HYDRANT NATURAL GAS
BLDG	BUILDING	NO	NORMALLY OPEN
BR BTU	BRANCH BRITISH THERMAL UNIT	NOM NTS	NOMINAL NOT TO SCALE
BV	BALANCING VALVE	#	NUMBER
CA	COMPRESSED AIR	OC	ON CENTER
CD	CONDENSATE DRAIN	OD	OUTSIDE DIAMETER
CFH	CUBIC FEET PER HOUR	OFD	OVERFLOW DRAIN (SECONDARY STORM DRAIN)
CFM CI	CUBIC FEET PER MINUTE CAST IRON	O/H OW	OVER HEAD OILY WASTE
CLG	CEILING	011	CIET WASTE
CONC	CLEANOUT	PDI	PLUMBING & DRAINAGE INSTITUTE
CONC CONN	CONCRETE CONNECT OR CONNECTION	PH PG	PHASE PRESSURE GAUGE
CONT	CONTINUE(S) OR CONTINUATION	PLBG	PLUMBING
CP CV	CIRCULATING PUMP CHECK VALVE	POC POD	POINT OF CONNECTION POINT OF DISCONNECTION
CW	COLD WATER	PRESS	PRESSURE
	DOUBLE OUEOKAVALVE AGGENDLY	PRV	PRESSURE REDUCING VALVE
DCVA DF	DOUBLE CHECK VALVE ASSEMBLY DRINKING FOUNTAIN	PSI PSIG	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE
DFU	DRAINAGE FIXTURE UNIT		1 GONDO I EIN GROWNING IN GIT GARGEE
DIA	DEIONIZED WATER DIAMETER	QTY	QUANTITY
DIA DN	DOWN	RD	ROOF DRAIN
DR	DRAIN	REQ'D	REQUIRED
DS DWG	DOWNSPOUT DRAWING	REV RPZ	REVISION REDUCED PRESSURE ZONE BACKFLOW PREVENTER
		RPM	REVOLUTIONS PER MINUTE
E EES	EXISTING EMERGENCY EYEWASH & SHOWER STATION	S	SANITARY
EL	ELEVATION	SD	STORM DRAIN
ELECT	ELECTRIC OR ELECTRICAL EQUIPMENT	SHT SF	SHEET
EQUIP ES	EMERGENCY SHOWER	SF SK	SQUARE FEET SINK
EW	EMERGENCY EYEWASH	SOV	SHUT-OFF VALVE
EWC EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER	SPEC STR	SPECIFY OR SPECIFICATION STRAINER
	ELECTRIC WATER HEATER	STRUC	STRUCTURE OR STRUCTURAL
F	DEGREES FAHRENHEIT	TOD	TEMPEDATIDE AND DRESSURE DELICE VALVE
FCO FD-'1'	FLOOR CLEANOUT FLOOR DRAIN - 'TYPE'	T & P TBD	TEMPERATURE AND PRESSURE RELIEF VALVE TO BE DETERMINED
FDC	FIRE DEPARTMENT CONNECTION	TEMP	TEMPERATURE
FDV	FIRE DEPARTMENT VALVE FROM OR FACTORY MUTUAL	TH TD	THERMOMETER OR THERMOSTAT TRENCH DRAIN
FM FP	FIRE PROTECTION	TOT	TOTAL
FPS	FEET PER SECOND	TP	TRAP PRIMER
FT FW	FEET FIREWATER	TS TW	TIGHT TO STRUCTURE TEPID WATER
		TYP	TYPICAL
G	GAS	11	LIDINIAI
GAL GC	GALLON GENERAL CONTRACTOR	U UL	URINAL UNDERWRITERS LABORATORIES
GCO	GRADE CLEANOUT		
GPH GPM	GALLONS PER HOUR GALLONS PER MINITE	V VB	VENT OR VOLT(S)

VACUUM BREAKER

WASTE OR WATT(S)

WATER HEATER OR WALL HYDRANT

P0.1 PLUMBING COVER SHEET

PLUMBING SCHEDULES

OVERALL PLUMBING PLAN

WATER HAMMER ARRESTOR

WATER CLOSET

WALL CLEANOUT

NO.

VERTICAL

WITHOUT

WEIGHT

VENT THROUGH ROOF

VTR

VERT

W/O

PLUMBING SHEET LIST

P1.1	UNIT 1 PLUMBING PLANS
P1.2	UNIT 1 OFFICE ABOVEGROUND SANITARY PLAN
P1.3	UNIT 1 OFFICE WATER PLAN
P1.4	UNIT 1 BATT. CHARGING ABOVEGROUND SANITARY PLAN
P1.5	UNIT 1 BATT. CHARGING ABOVEGROUND WATER PLAN
P1.6	UNIT 1 BATT. CHARGING ROOF PLUMBING PLAN
P1.7	UNIT 2 PLUMBING PLANS
P1.8	UNIT 2 OFFICE ABOVEGROUND SANITARY PLAN
P1.9	UNIT 2 OFFICE WATER PLAN
P1.10	UNIT 2 BATT. CHARGING ABOVEGROUND SANITARY PLAN
P1.11	UNIT 2 BATT. CHARGING ABOVEGROUND WATER PLAN
P1.12	UNIT 3 PLUMBING PLANS
P1.13	UNIT 3 OFFICE ABOVEGROUND SANITARY PLAN

P1.14 UNIT 3 OFFICE WATER PLAN P1.15 UNIT 3 BATT. CHARGING ABOVEGROUND SANITARY PLAN P1.16 UNIT 3 BATT. CHARGING ABOVEGROUND WATER PLAN P1.17 UNIT 4 PLUMBING PLANS

P1.19 UNIT 4 OFFICE WATER PLAN P1.20 UNIT 4 BATT. CHARGING ABOVEGROUND SANITARY PLAN P1.21 UNIT 4 BATT. CHARGING ABOVEGROUND WATER PLAN P1.22 BUILDING PLUMBING PLANS

P1.18 UNIT 4 OFFICE ABOVEGROUND SANITARY PLAN

P2.1 PLUMBING DETAILS UNIT 1 PLUMBING RISER DIAGRAMS

P3.2 UNIT 2 AND UNIT 3 PLUMBING RISER DIAGRAMS P3.3 UNIT 4 PLUMBING RISER DIAGRAMS

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PLUMBING COVER SHEET

PLUMBING FIXTURE SCHEDULE TAG	ACID WASTE RATED PARKUSA MODEL ANT50 T GUARDIAN MODEL G1909 I INTEGRAL HEAT
ACID NEUTRALIZATION TANK BESS-1 EMERG. SAFETY STATION ESS-2 EMERG. SAFETY STATION ESS-2 EMERG. SAFETY STATION ESS-2 EMERG. SAFETY STATION ESS-3 EMERG. SAFETY STATION ESS-4 EMERG. SAFETY STATION ESS-5 EMERG. SAFETY STATION ESS-6 EMERG. SAFETY STATION ESS-7 EMERG. SAFETY STATION ESS-8 EMERG. SAFETY STATION EWC-1 ELEC. WATER COOLER 1-1/2"	HR WITH 7 CUBIC ACID WASTE RATED PARKUSA MODEL ANT50 T GUARDIAN MODEL G1909 I INTEGRAL HEAT
AT-1 ACID NEUTRALIZATION TANK ACID NEUTRALIZATION TANK ACID NEUTRALIZATION TANK SEB PLAN S S S SEE PLAN PLAN PLAN PLAN PLAN PLAN PLAN S S S SEE PLAN TANK ESS-1 EMERG. SAFETY STATION 1-1/4" INSIDE EMERGENCY EYEWASH/SHOWER COMBINATION UNIT, WITH ACID EMERGENCY	ACID WASTE RATED PARKUSA MODEL ANT50 T GUARDIAN MODEL G1909 I INTEGRAL HEAT
ESS-2 EMERG. SAFETY STATION 1-1/4" EMERGENCY EYEWASH/SHOWER COMBINATION UNIT, WITH TRACE AND INSULATION. EXTEND HEAT TRACING AND INSULATION. EXTEND HEAT FRACING AND INSULATION. EXTEND HEAT TRACING AND INSULATION. EXCEPT HEAT TRACING AND IN	I INTEGRAL HEAT
ESS-2 EMERG. SAFETY STATION 1-1/4" TRACE AND INSULATION. EXTEND HEAT TRACING AND INSULATION. EXTEND HEAT TRACING AND INSUALLE EXPOSED EXTERIOR PIPING. EWC-1 ELEC. WATER COOLER 1-1/2" 1-1/2" 1/2" WALL-MOUNTED, BI-LEVEL (ADA), 120-VOLT, 20-AMP ELECTR WITH 8 GPH CHILLING CAPACITY, FILTERED WITH VISUAL FILE FLOOR CLEANOUT PLAN FINISHED FLOOR CLEANOUT FOR MEDIUM DUTY TRAFFIC. FCO-2 FLOOR CLEANOUT SEE PLAN EXTRA-HEAVY-DUTY ADJUSTABLE FLOOR CLEANOUT. FD-1 FLOOR DRAIN SEE PLAN PLAN FLOOR DRAIN, TOILET ROOMS, CAST IRON W/ TRAP PRIMER ADJUSTABLE STRAINER. FD-2 FLOOR DRAIN SEE PLAN PLAN FLOOR DRAIN, TOILET ROOMS, CAST IRON W/ TRAP PRIMER ADJUSTABLE STRAINER. FD-3 CATCH BASIN 4" SEE PLAN PLAN ROUND GRATE, WITH SEDIMENT BUCKET, AND MECHANICAL ROOMS, CAST IRON W/ TRAP PRIMER ADJUSTABLE STRAINER. HB-1 HOSE BIBB 3/4" HOSE BIBB WITH VACUUM BREAKER HB-2 HOSE BIBB 3/4" HOSE BIBB WITH VACUUM BREAKER HD-1 HUB DRAIN SEE PLAN PLAN FREEZELESS ANIT-SIPHON WALL FAUCET. HD-1 HUB DRAIN SEE PLAN STANDARD 4"X6" REDUCER, CAST IRON, WITH MECHANICAL HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE AND NOZZILE/ WATER GUN. LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" LAVATORY, WALL-MID, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. LAVATORY, UNDER-COUNTER-MTD, 19"X16", WHITE, WITH OV BATTERY-OPERATED-S ENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	
FD-2 FLOOR DRAIN FD-3 CATCH BASIN HD-1 HOSE BIBB HB-2 HOSE BIBB HD-1 HOSE SIBB HD-1 HOSE STATION FD-1 HOSE STATION FD-1 HOSE STATION FD-1 HOSE STATION FD-1 LAVATORY FD-1 LAVATORY FD-1 LAVATORY FD-2 LAVATORY FD-1 HOOR CLEANOUT FD-2 FLOOR CLEANOUT FD-3 CATCH BASIN FD-3 CATCH BASIN FD-3 CATCH BASIN FD-3 CATCH BASIN FD-4 HOSE STATION FD-5 SEE FD-6 PLAN FD-7 STANDARD 4" FD-8 SEE FD-9 SEE FD-8 SEE FD-8 SEE FD-8 SEE FD-8 SEE FD-8 SEE FD-8 SEE FD-9 SEE FD-8 SEE FD-9 SE FD-9	
FCO-1 FLOOR CLEANOUT PLAN FINISHED FLOOR CLEANOUT FOR MEDIUM DUTY TRAFFIC. FCO-2 FLOOR CLEANOUT SEE PLAN EXTRA-HEAVY-DUTY ADJUSTABLE FLOOR CLEANOUT. FD-1 FLOOR DRAIN SEE SEE PLAN PLAN PLAN PLAN PLAN PLAN PLAN PLAN	
FLOOR CLEANOUT PLAN EXTRA-HEAVY-DUTY ADJUSTABLE FLOOR CLEANOUT. FD-1 FLOOR DRAIN SEE PLAN PLAN FLOOR DRAIN, TOILET ROOMS, CAST IRON W/ TRAP PRIMER ADJUSTABLE STRAINER. FD-2 FLOOR DRAIN SEE PLAN FLOOR DRAIN EXTRA-HEAVY DUTY, MECHANICAL ROOMS, CAST IRON W/ TRAP PRIMER PLAN PLAN PLAN CATCH BASIN W/ HEAVY DUTY, MECHANICAL ROOMS, CAST IRON MECHANICAL PLAN SEE PLAN 3/4" HOSE BIBB WITH VACUUM BREAKER FREEZELESS ANIT-SIPHON WALL FAUCET. HD-1 HUB DRAIN SEE PLAN STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL PLAN PLAN PLAN PLAN HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN. L-1 LAVATORY 1-1/2" 1-1/2" 1/2" LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. LAVATORY 1-1/2" 1-1/2" 1/2" BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	ZURN MODEL ZN1400
FD-1 FLOOR DRAIN PLAN PLAN ADJUSTABLE STRAINER. FD-2 FLOOR DRAIN SEE PLAN PLAN FLOOR DRAIN EXTRA-HEAVY DUTY, MECHANICAL ROOMS, C ROUND GRATE, WITH SEDIMENT BUCKET, AND MECHANICAL ROOMS, C ROUND GRATE, WITH SEDIMENT BUCKET, AND MECHANICAL ROOMS, C ROUND GRATE, WITH SEDIMENT BUCKET, AND MECHANICAL PLAN DEDIMENT BUCKET. HB-1 HOSE BIBB 3/4" HOSE BIBB WITH VACUUM BREAKER HB-2 HOSE BIBB 3/4" FREEZELESS ANIT-SIPHON WALL FAUCET. HD-1 HUB DRAIN SEE PLAN STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL PLAN HOT AND COLD WATER HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN. L-1 LAVATORY 1-1/2" 1/2" 1/2" LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. L-2 LAVATORY 1-1/2" 1-1/2" 1/2" BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	ZURN MODEL Z1400-NH
FD-2 FLOOR DRAIN PLAN PLAN ROUND GRATE, WITH SEDIMENT BUCKET, AND MECHANICAL SEE PLAN AND SEDIMENT BUCKET. HB-1 HOSE BIBB 3/4" HOSE BIBB WITH VACUUM BREAKER HB-2 HOSE BIBB 3/4" FREEZELESS ANIT-SIPHON WALL FAUCET. HD-1 HUB DRAIN SEE PLAN STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN. L-1 LAVATORY 1-1/2" 1/2" 1/2" 1/2" LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. L-2 LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" BATTERY-OPERATED-S STRAINER.	2005-A-B-P050
HB-1 HOSE BIBB 3/4" HOSE BIBB WITH VACUUM BREAKER HB-2 HOSE BIBB 3/4" FREEZELESS ANIT-SIPHON WALL FAUCET. HD-1 HUB DRAIN SEE PLAN PLAN STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL HS-1 HOSE STATION 3/4" 3/4" HOT AND COLD WATER HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN. L-1 LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. L-2 LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	
HB-2 HOSE BIBB 3/4" FREEZELESS ANIT-SIPHON WALL FAUCET. HD-1 HUB DRAIN SEE PLAN PLAN STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL HS-1 HOSE STATION 3/4" 3/4" HOT AND COLD WATER HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN. L-1 LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. L-2 LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	ON SLOTTED GRATE, ZURN MODEL Z887-24-HD
HD-1 HUB DRAIN SEE PLAN STANDARD 4"x6" REDUCER, CAST IRON, WITH MECHANICAL HS-1 HOSE STATION 3/4" 3/4" HOT AND COLD WATER HOSE STATION WITH TEMPERATURE HIGH PRESSURE HOSE AND NOZZLE/ WATER GUN. L-1 LAVATORY 1-1/2" 1-1/2" 1/2" LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. L-2 LAVATORY 1-1/2" 1-1/2" 1/2" LAVATORY, UNDER-COUNTER-MTD, 19"x16", WHITE, WITH OV BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	WOODFORD BRASS MODEL 24C
L-1 LAVATORY L-2 LAVATORY LAVATORY LAVATORY LAVATORY LAVATORY LAVATORY LAVATORY, WALL-MTD, WHITE, WITH BATTERY-OPERATED-S 0.35 GPM AERATOR, AND GRID STRAINER. LAVATORY, UNDER-COUNTER-MTD,19"x16", WHITE, WITH OV BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	WOODFORD BRASS MODEL 19C3 CHARLOTTE PIPE PART NO. 102, JAY R SMITH TRAP SEAL MODEL 2692
L-1 LAVATORY 1-1/2 1-1/2 1/2 0.35 GPM AERATOR, AND GRID STRAINER. L-2 LAVATORY 1-1/2" 1-1/2" 1/2" 1/2" LAVATORY, UNDER-COUNTER-MTD,19"x16", WHITE, WITH OV BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	E GAUGE, 50FT OF T&S BRASS MODEL MV-0771-12CW
L-2 LAVATORY 1-1/2" 1-1/2" 1/2" BATTERY-OPERATED-SENSOR FAUCET, 0.35 GPM AERATOR STRAINER.	SENSOR FAUCET, ZURN MODEL Z5320 ZURN FAUCET MODEL Z6915-XL
4" THERMOSTATIC MASTER MIVING VALVE SHALL BE	
MV-1 MIXING VALVE 1" 1" THERMOSTATIC MASTER MIXING VALVE. VALVE SHALL BI TEMP. TO 115 F.	,
MV-2 TEMPERING VALVE 1" 1" THERMOSTATIC MIXING VALVE SET TO DELIVER UP TO 34 G VALVE SHALL BE ASSE 1071 CERTIFIED, AND MEET LOW-LEA	
RD-1 ROOF DRAIN SEE PLAN COMBINED LARGE SUMP ROOF DRAIN WITH SECONDARY OV MEMBRANE CLAMP RINGS, INTEGRAL GRAVEL STOP, 15-IN LIRON ROOF DRAIN BODIES, OVERFLOW STANDPIPE, AND 24 GALVANIZED SUMP RECEIVER.	ACQUERED CAST MIEAR MODEL P1060
RD-2 DOWNSPOUT NOZZLE SEE CONTROL SEE CONTROL	OVER. MIFAB MODEL R1960
S-1 MOP SINK 2" 1-1/2" 1/2" 32"x32" TERRAZO CORNER MOP SINK WITH WALL GUARDS, 8 HOOK, AND 5 FT OF VINYL HOSE.	
S-2 UTILITY SINK 2" 1-1/2" 1/2" FLOOR MTD, STAINLESS STEEL, LEVER HANDLE FAUCET WI'S SPOUT.	TH HOSE THREADED SANILAV MODEL U2424F
TD-1 TRENCH DRAIN SEE PLAN SEE PLAN SEE PLAN SEE PLAN SEE PLAN ACID WASTE 4-INCH WIDE PRE-SLOPED TRENCH DRAIN WIT IRON INDEPENDENTLY ANCHORED FRAME AND SLOTTED GIVEN SERIES CATCH BASIN WITH GALVANIZED STEEL TRASH BUCK	RATE, ANDE 2900 GRATE & FRAME ASTM A536
TP-1 TRAP PRIMER 1/2" WATER CLOSET FLUSH VALVE VACUUM BREAKER TRAP PRI	IMER SLOAN MODEL VBF-72-A
TP-2 1/2"	
WC-1 WATER CLOSET 4" 2" 1" WALL CLOSET, WALL-MTD, WHITE, ELONGATED, WITH ANTIN BATTERY-OPERATED-SEENSOR 1.1 GPF FLUSH VALVE, AND LID-LESS WHITE SEAT.	·
WH-1 WALL HYDRANT 3/4" FREEZLESS WALL HYDRANT WITH INTEGRAL ANIT-SIPHON ERECESSED BOX.	ZURN SEAT MODEL Z596SS-EL
WH-2 ROOF HYDRANT 3/4" FREEZELESS SANITARY ROOF HYRANT WITH VACUUM BREA	ZURN SEAT MODEL Z596SS-EL

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

NOTES:

- VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
 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.
- PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS.
 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 A12.18.6, NSF/ANSI 372, AND NSF/ANSI 61.

ELECTRIC WATER HEATERS NUMBER FOTAL KW RECOVERY PEAK CAPACITY @ DEMAND AREA SERVED MANUFACTURER MODEL 100°F RISE (GPH) ELEMENTS 120 480 3 1, 2, 3, 4 A.O. SMITH **DEN-120** UNIT #1 A.O. SMITH DEN-120 UNIT #2 120 12.0 480 3 1, 2, 3, 4

49

140

140

120

120

EQUAL PRODUCTS BY: BRADFORD WHITE, RHEEM, STATE

NOTES

1. COORDINATE ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

UNIT #3

UNIT #4

2. PROVIDE 4-IN HOUSEKEEPING PAD.

A.O. SMITH

A.O. SMITH

- 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.

DEN-120

DEN-120

INSTANTANEOUS ELECTRIC WATER HEATERS										
TAG	MANUFACTURER	MODEL	AREA SERVED	PEAK DEMAND (GPM)	TEMP RISE @ 23 GPM (°F)	SUPPLY TEMP (°F)	TOTAL KW	ELECT V	RICAL PH	NOTES
IWH-1	EEMAX	AP072480 EFD-N4X	REFRIG. SKID		21	70	72	480	3	1, 2, 3, 4

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

NOTE

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

TAG	MANUFACTURER	MODEL	AREA SERVED	TYPE	GPM	HEAD	RPM	HP	ELEC1	RICAL	NOTES
IAG	MANUFACTURER	MODEL	ANEA SERVED	ITPE	GPIVI	(FT)	KEW	ПЕ	V	PH	INOTES
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

NOTE

- 1. COORDINATE ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE AND INSTALL AQUASTAT WITH TIMER AND REQUIRED ACCESSORIES.
- PROVIDE BYPASS AROUND PUMP WITH SHUT-OFF IN NORMALLY CLOSED POSITION.
 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.

- timothy m. taylor, PE mechanical engineer
- 8294 Highway 92, Suite 220 Woodstock, GA 30189 tel. 770.928.7120 North Carolina Lic. No. 036761

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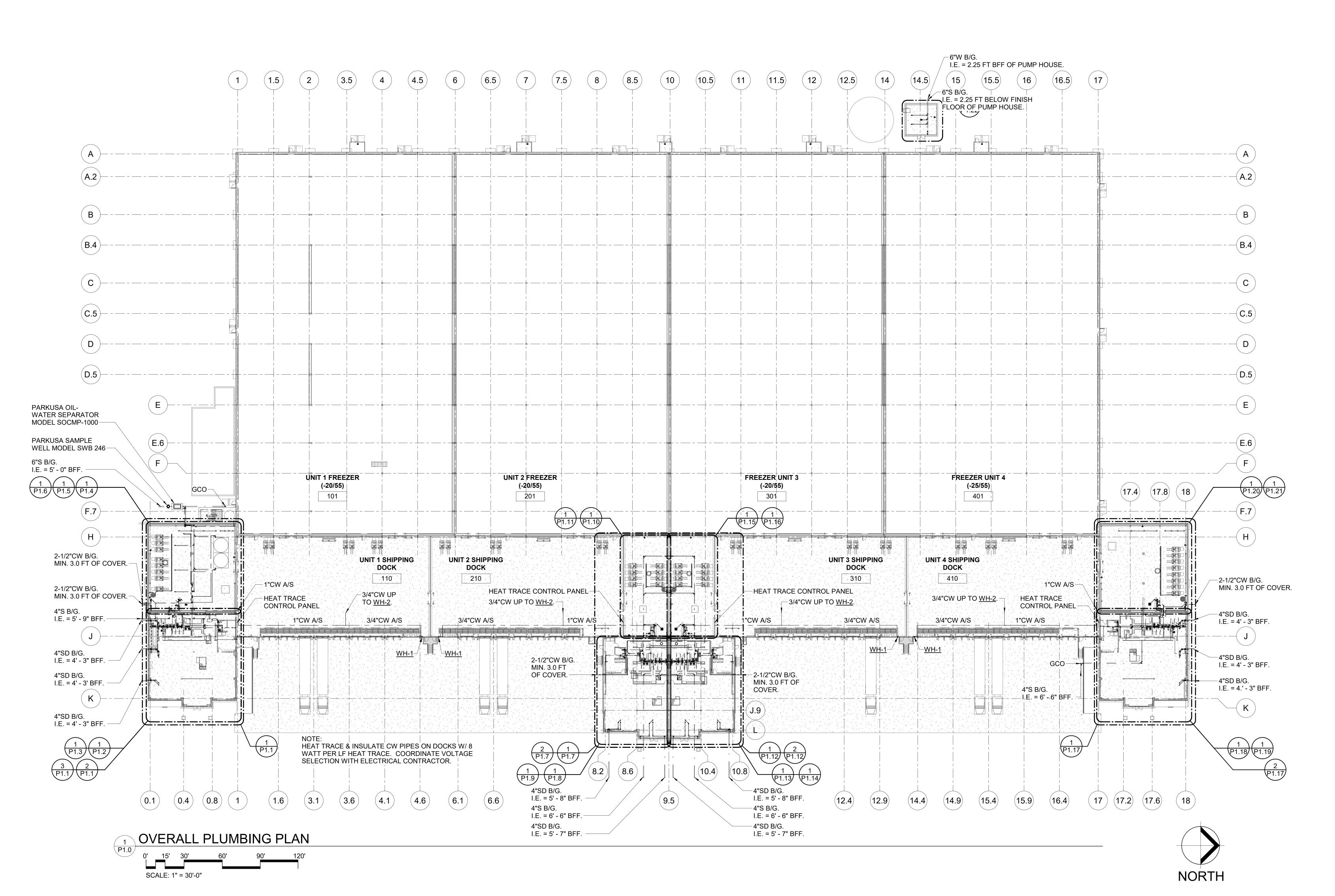
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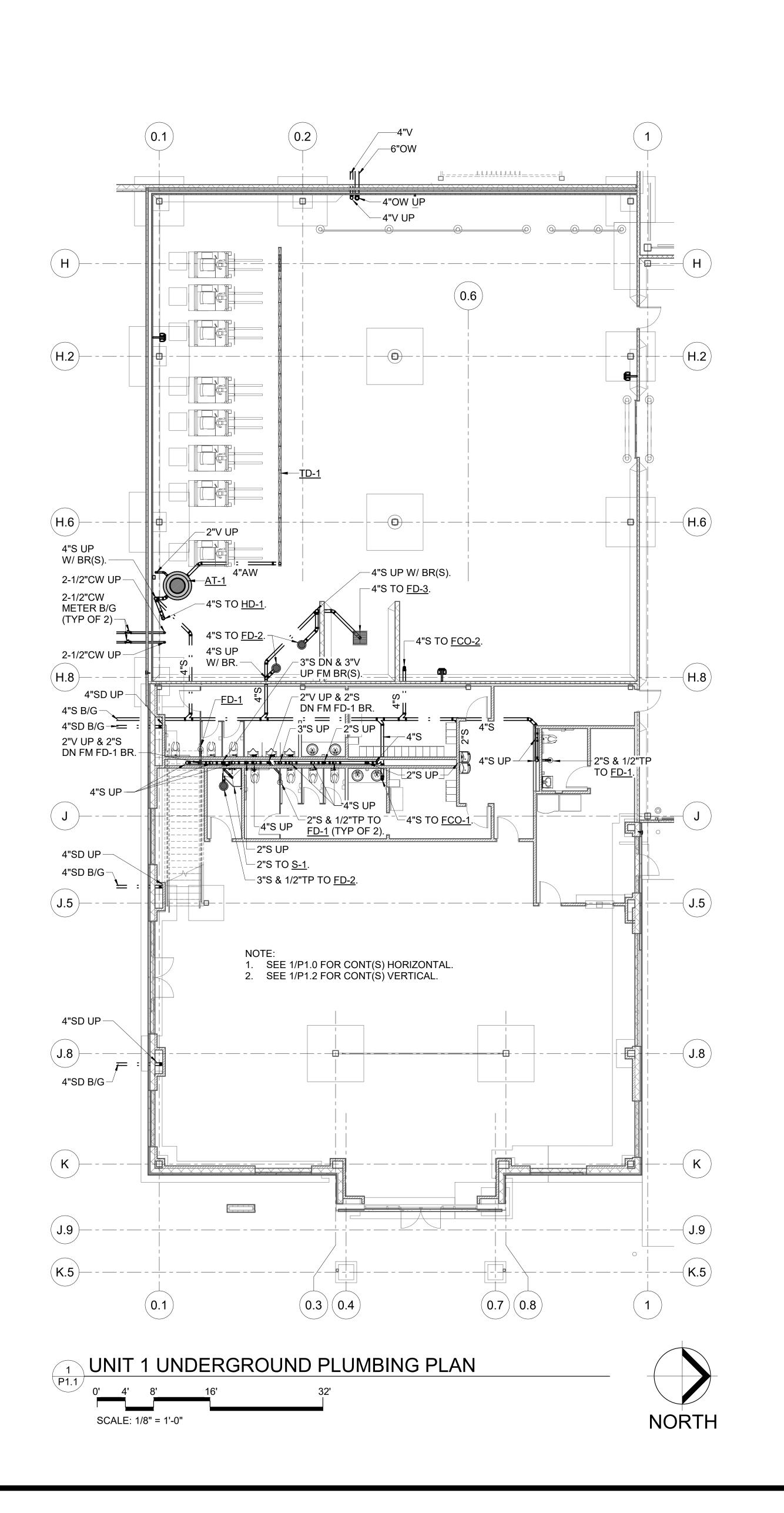
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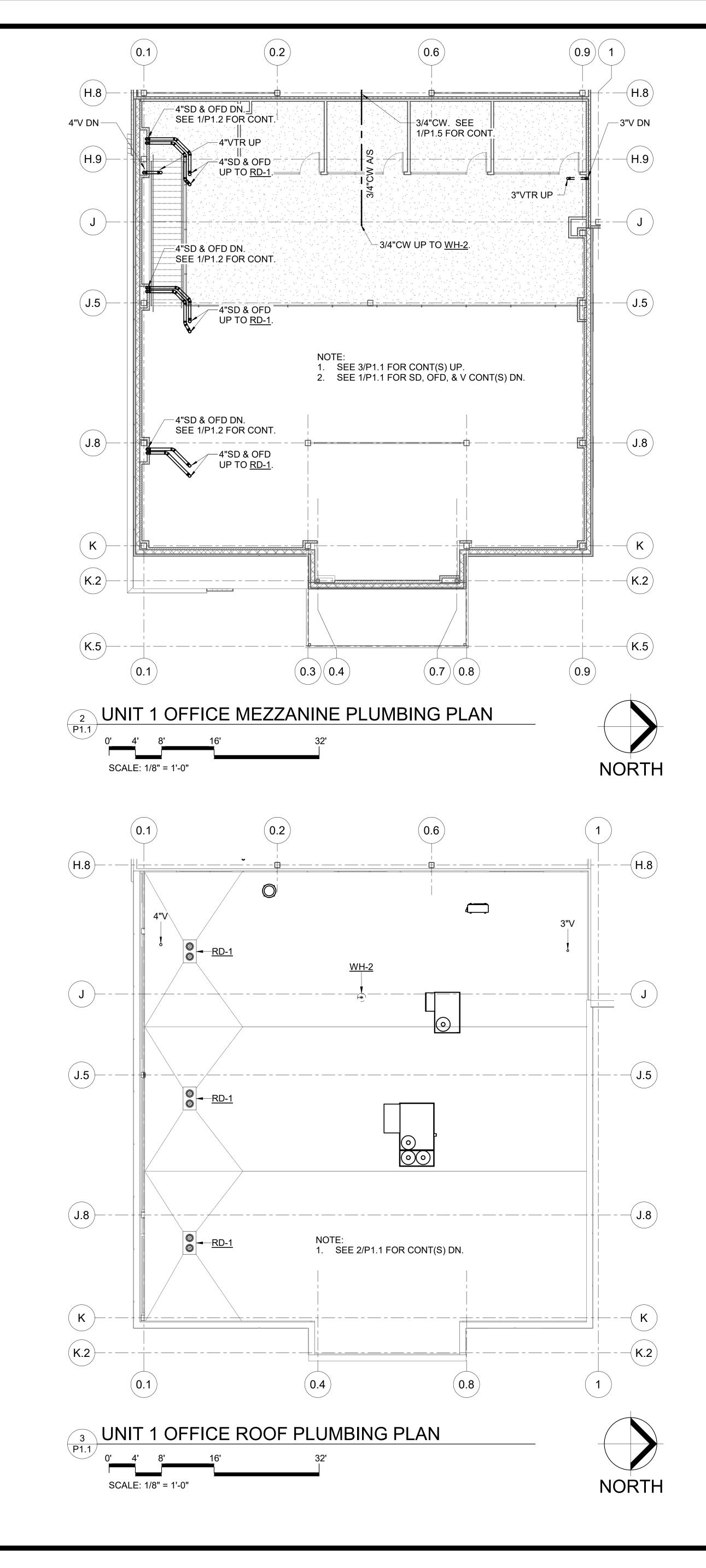


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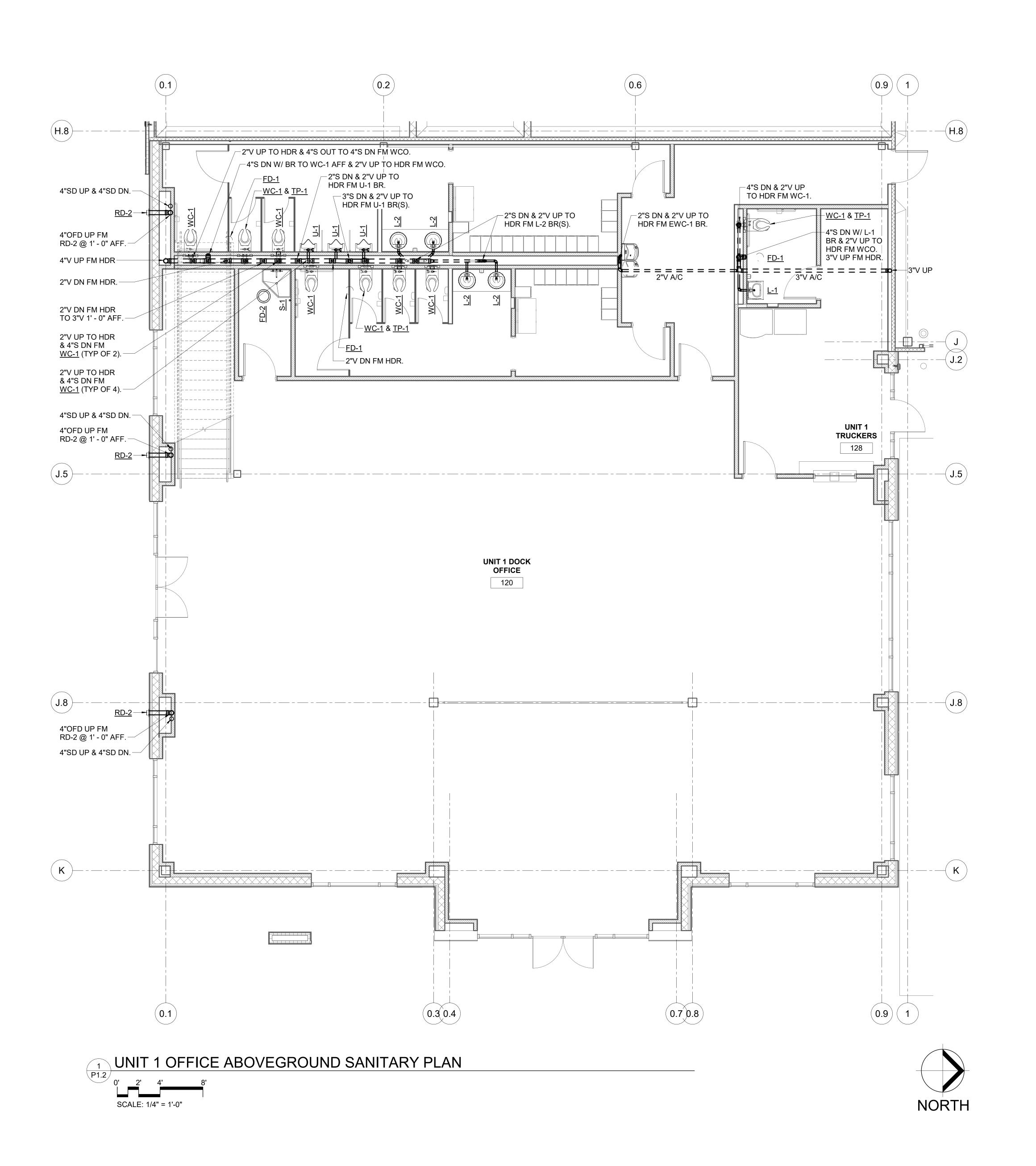
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UNIT 1 PLUMBING PLANS

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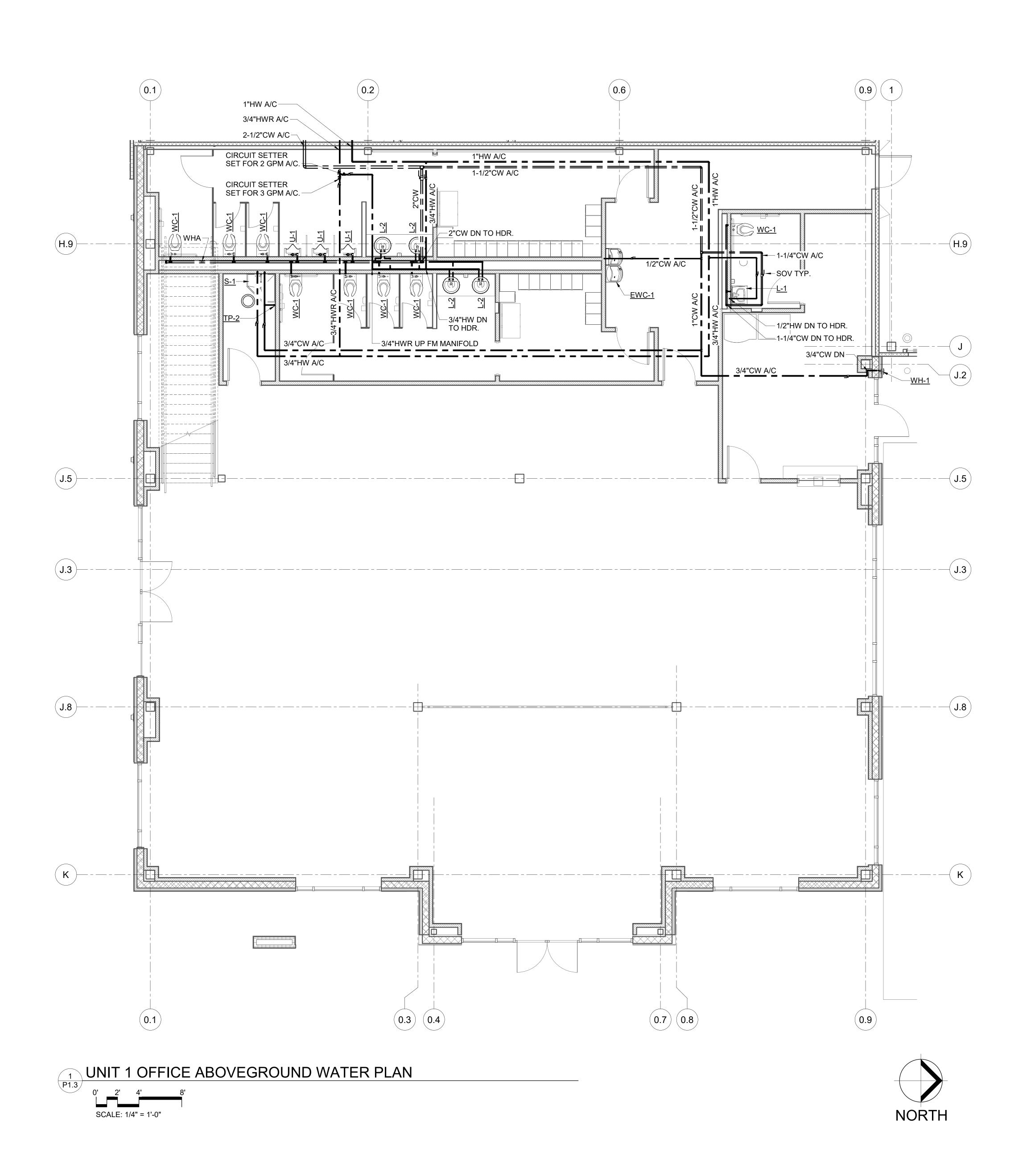
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UNIT 1 OFFICE ABOVEGROUND SANITARY PLAN

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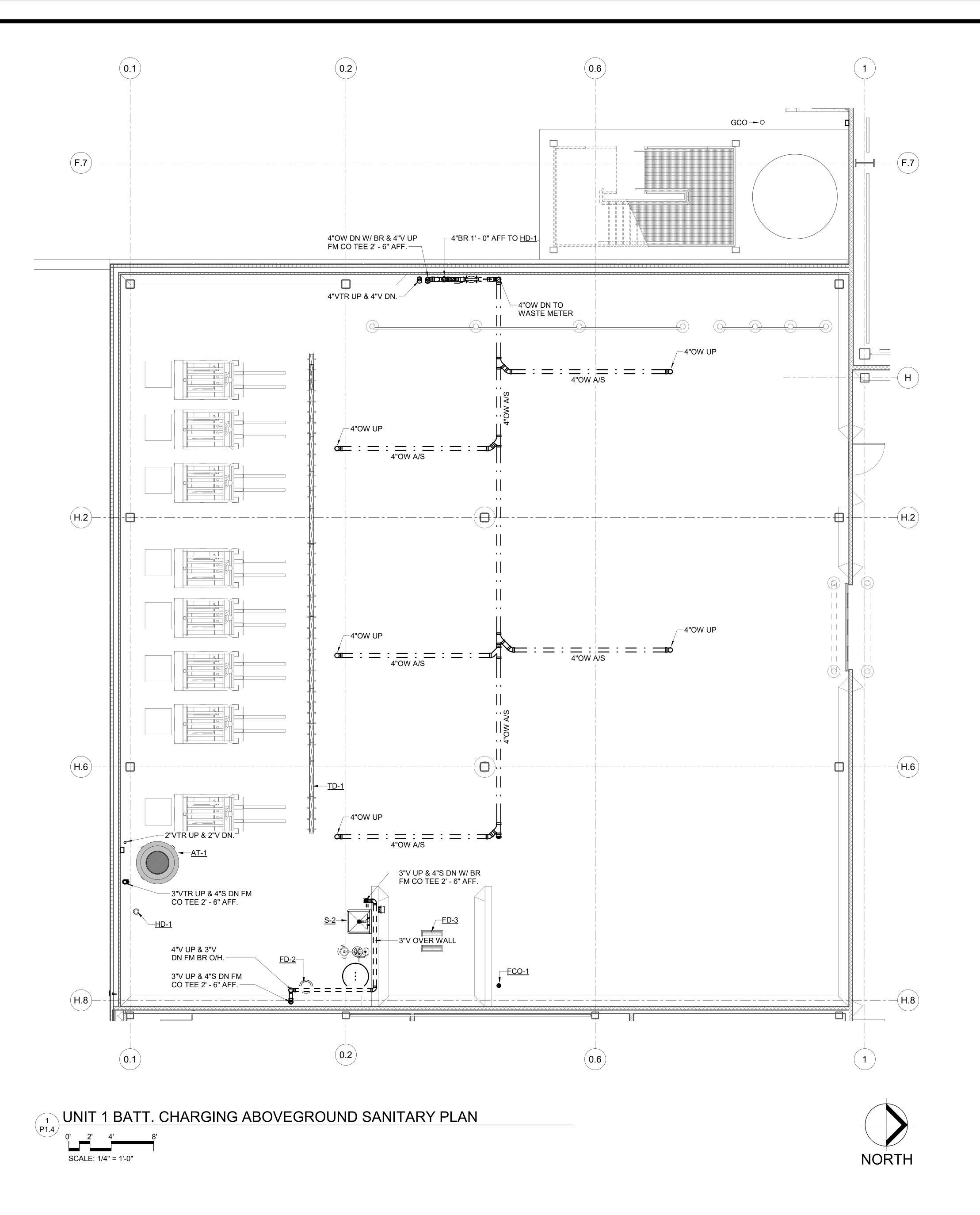
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UNIT 1 OFFICE WATER PLAN

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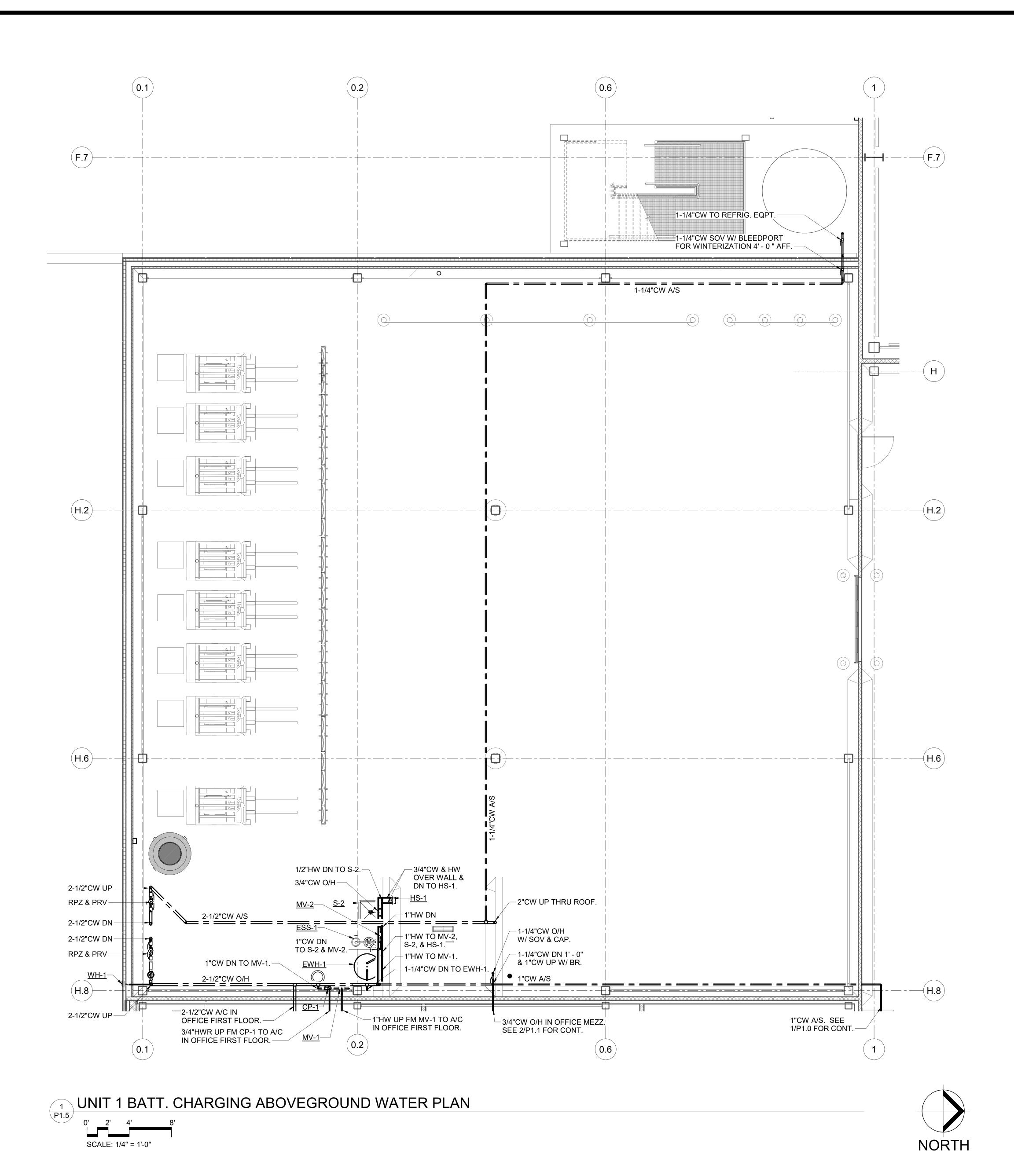


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UNIT 1 BATT. CHARGING **ABOVEGROUND SANITARY PLAN**



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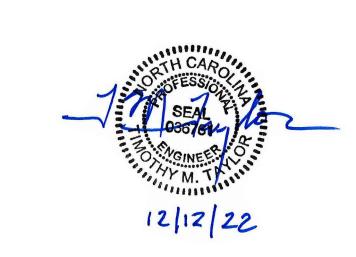


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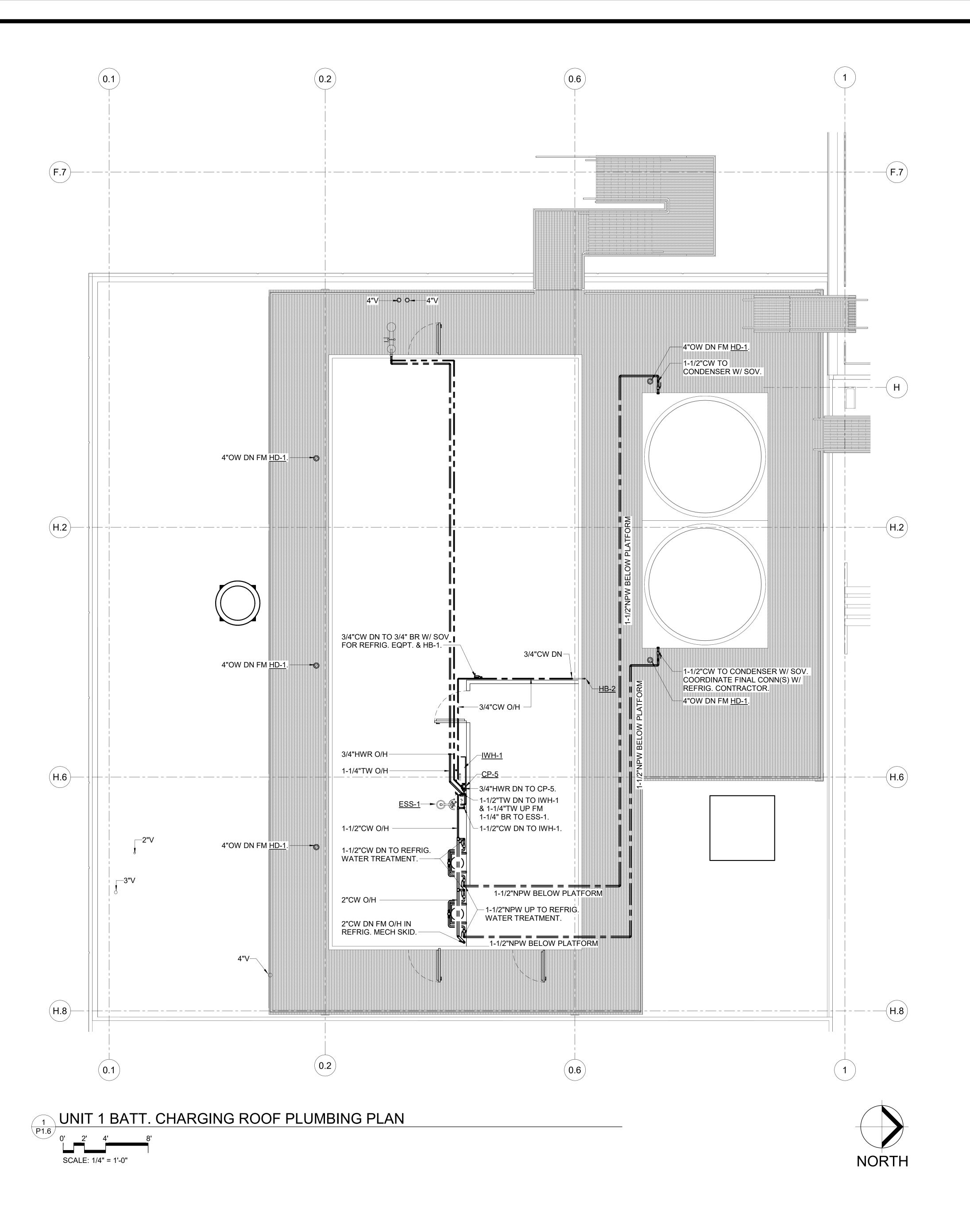
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UNIT 1 BATT.
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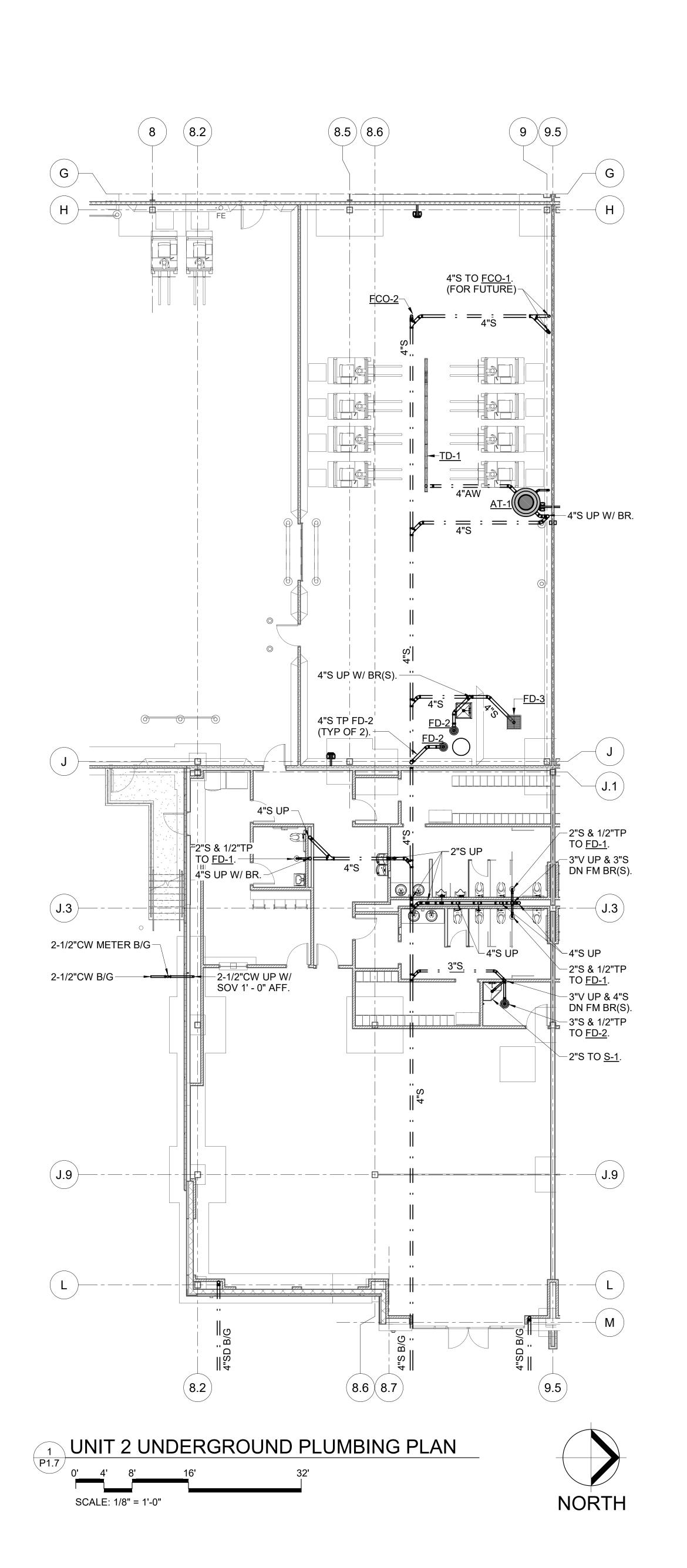
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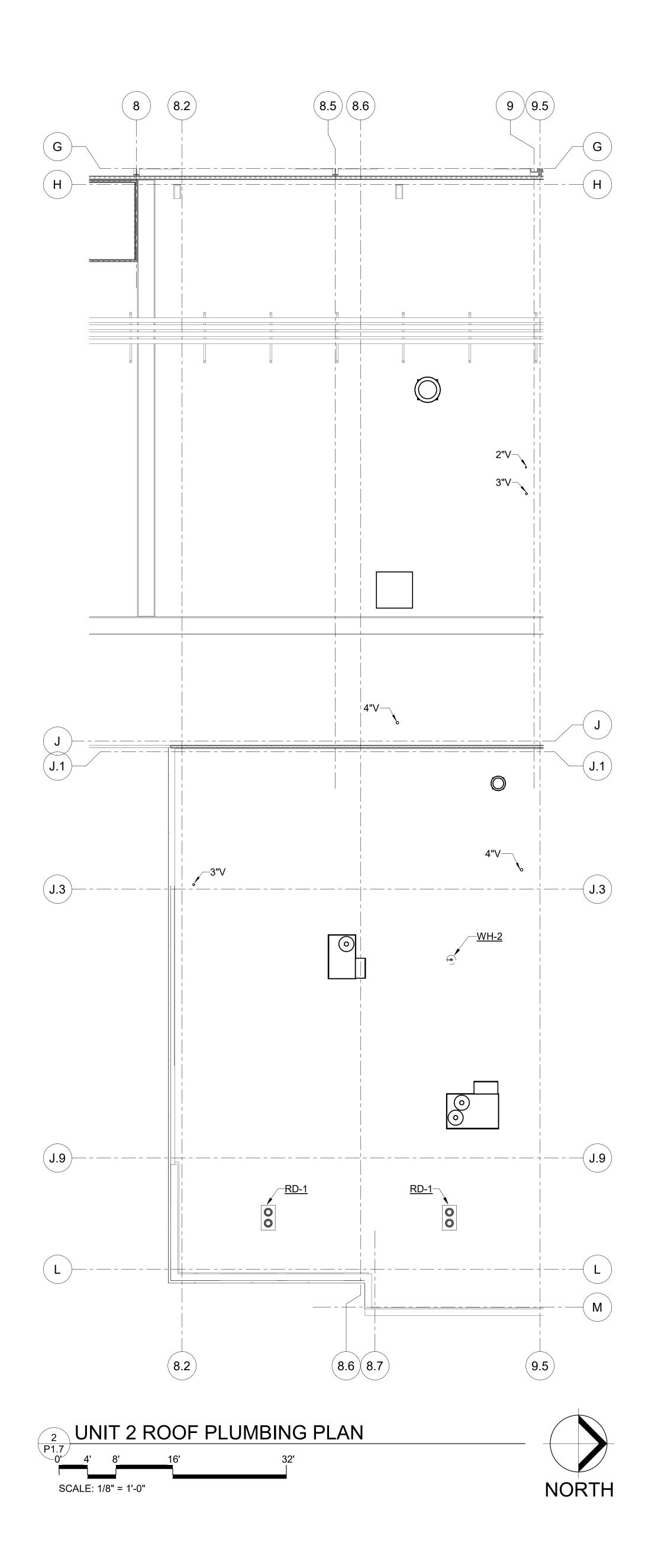
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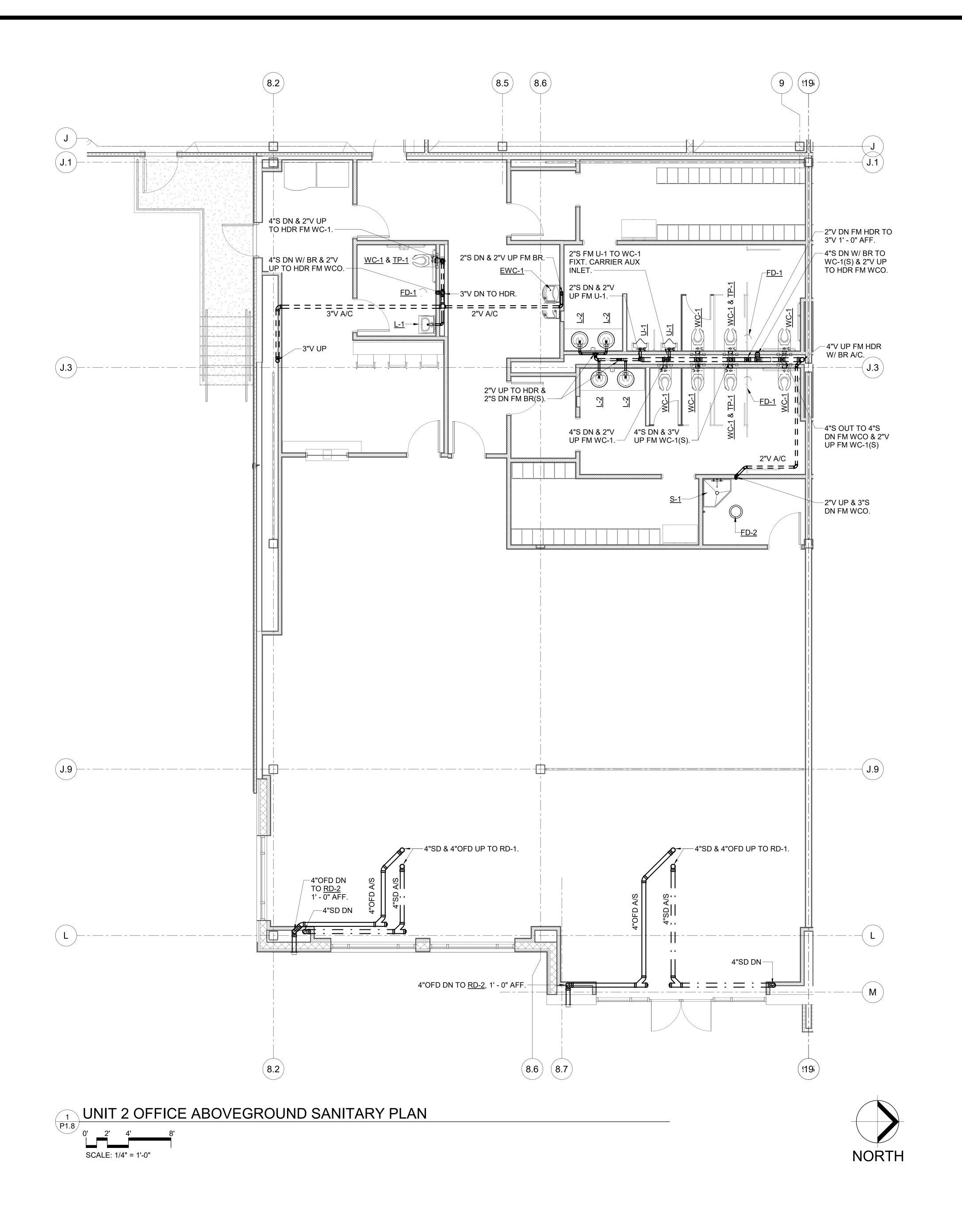
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UNIT 2 PLUMBING PLANS

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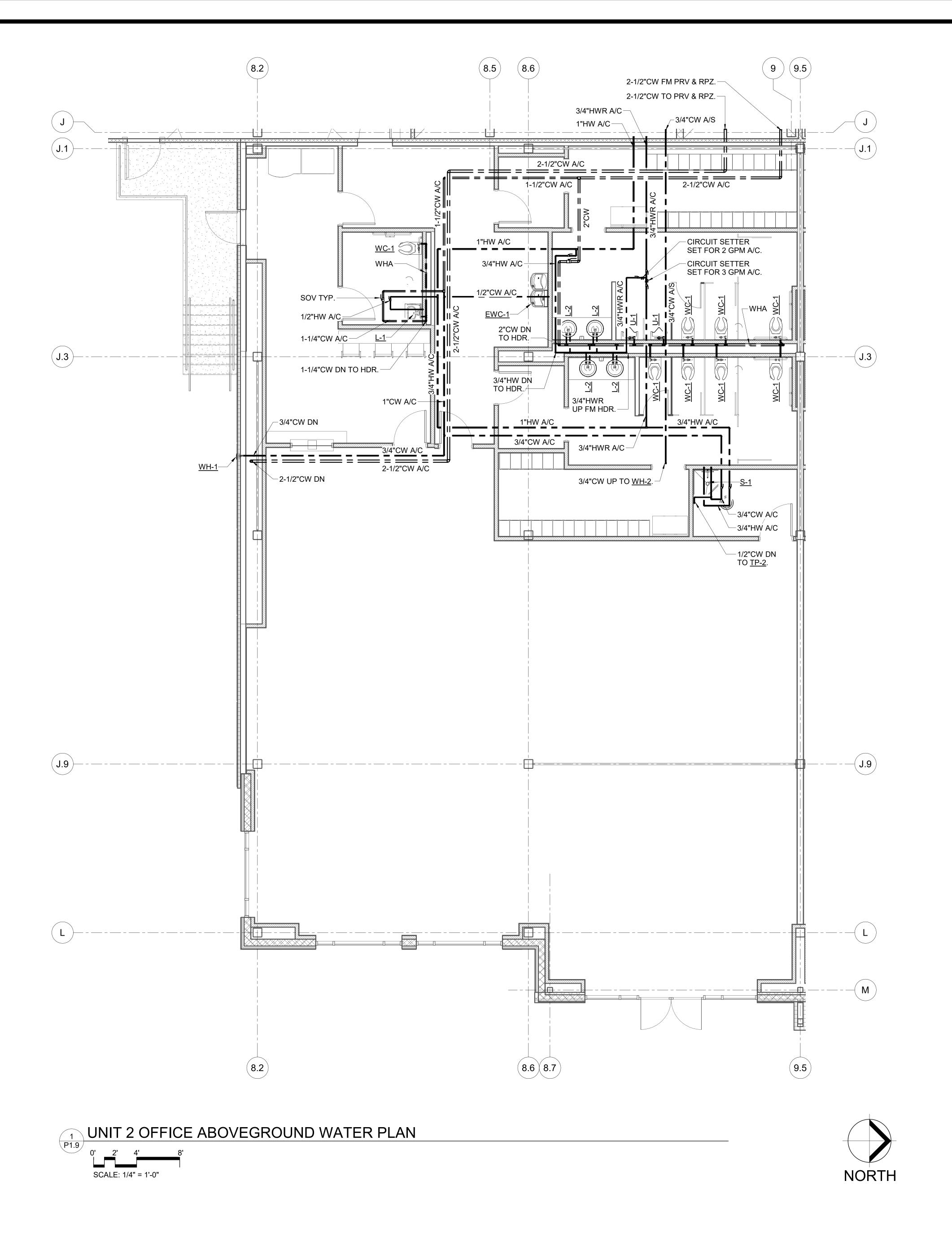
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UNIT 2 OFFICE ABOVEGROUND SANITARY PLAN

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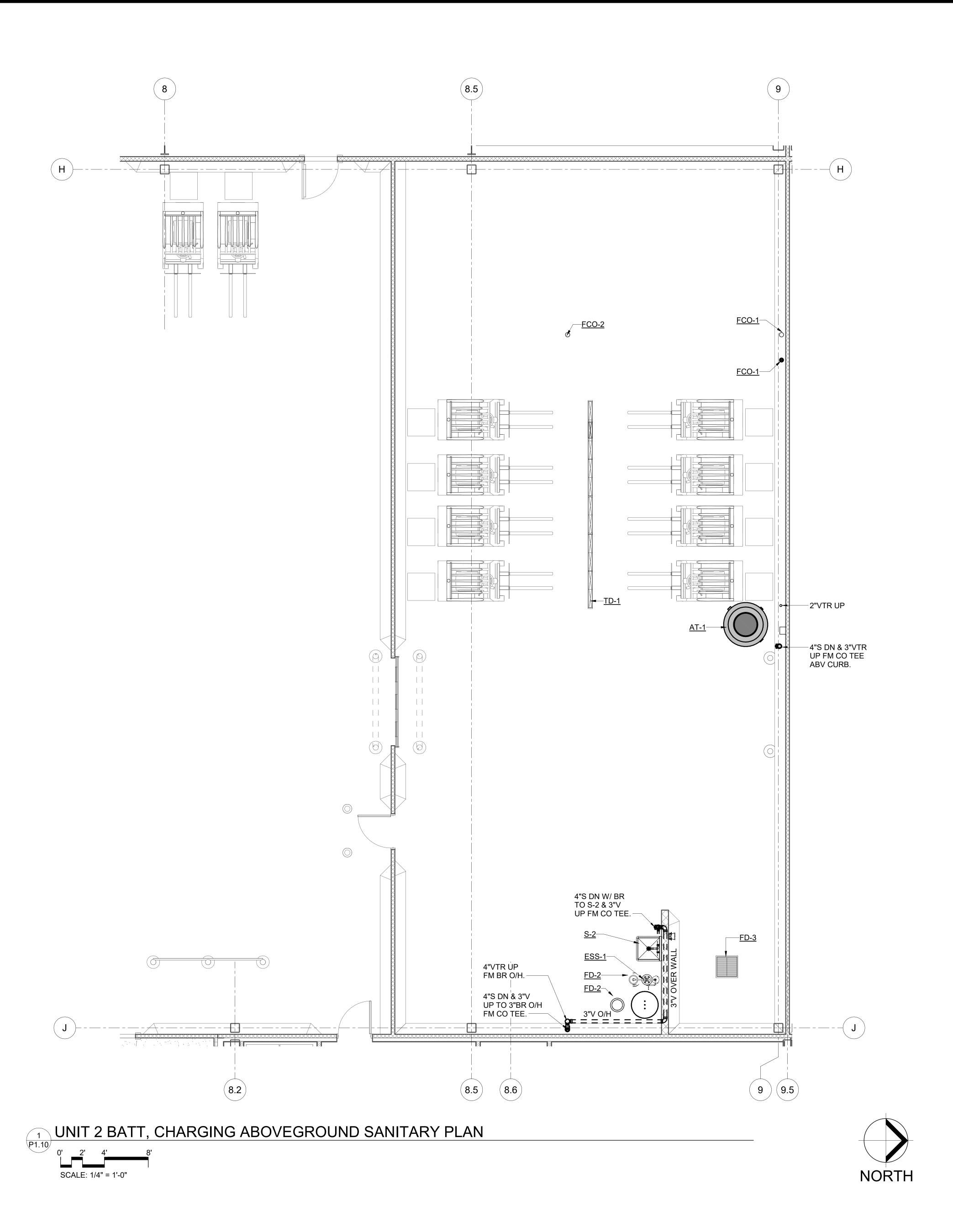
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UNIT 2 OFFICE WATER PLAN

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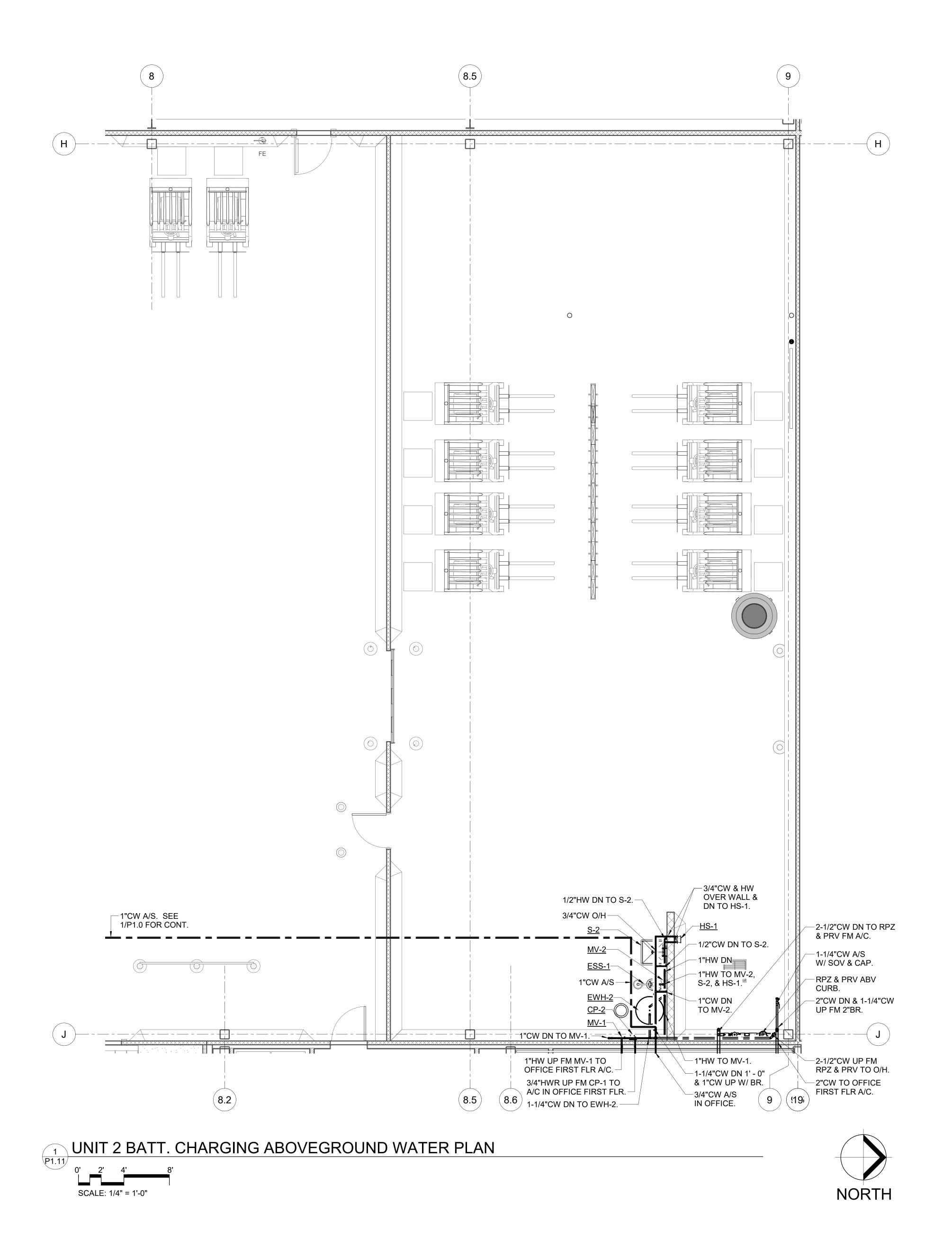
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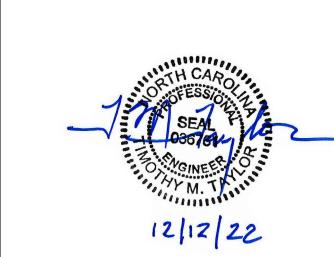
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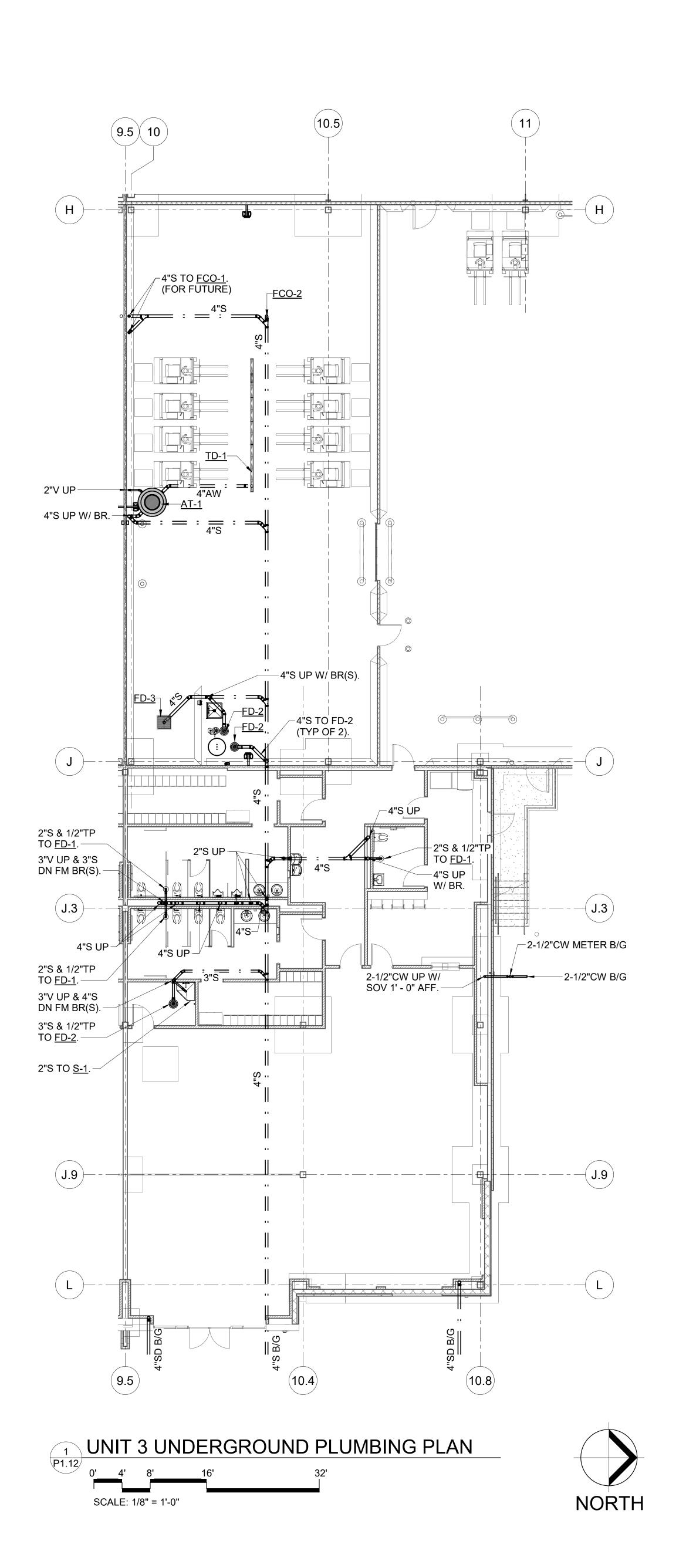
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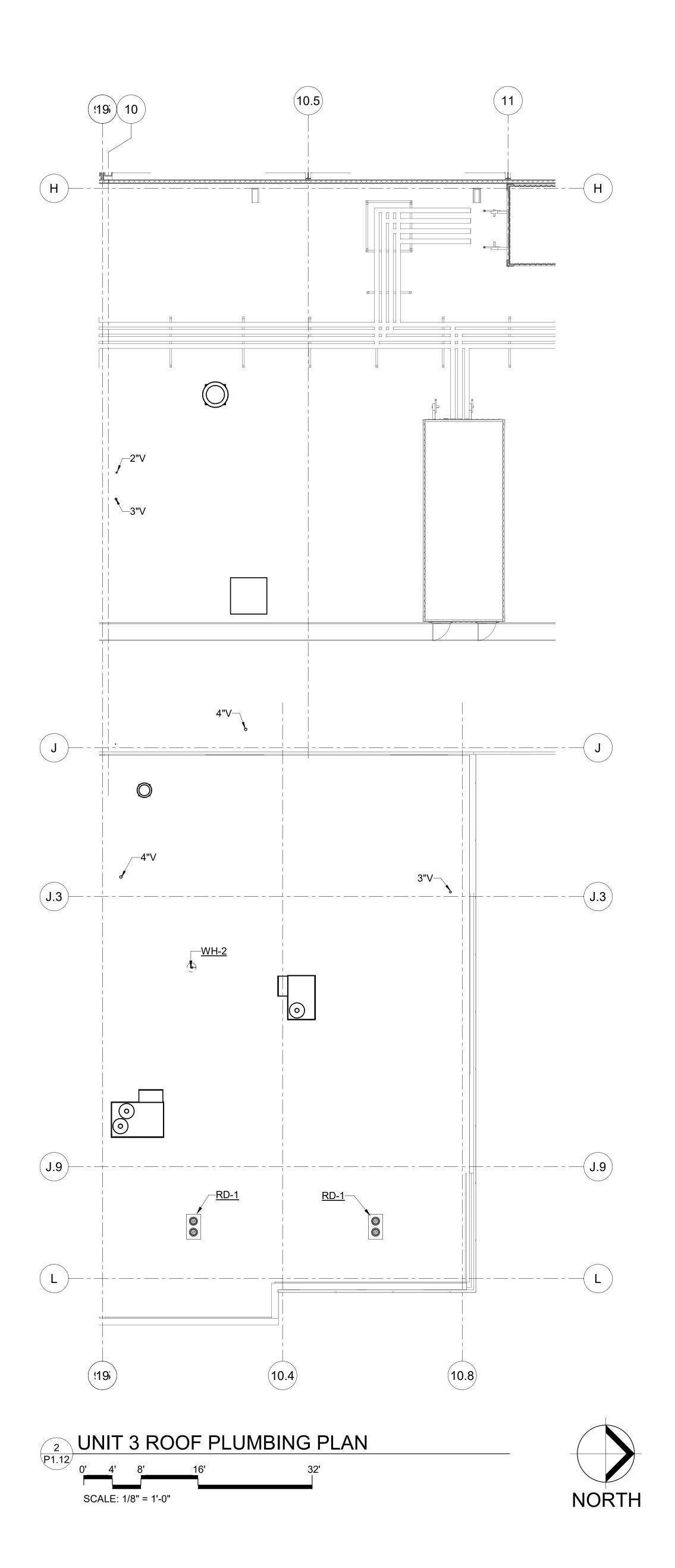
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UNIT 2 BATT.
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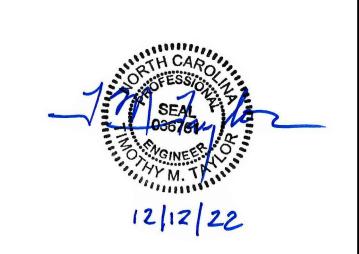
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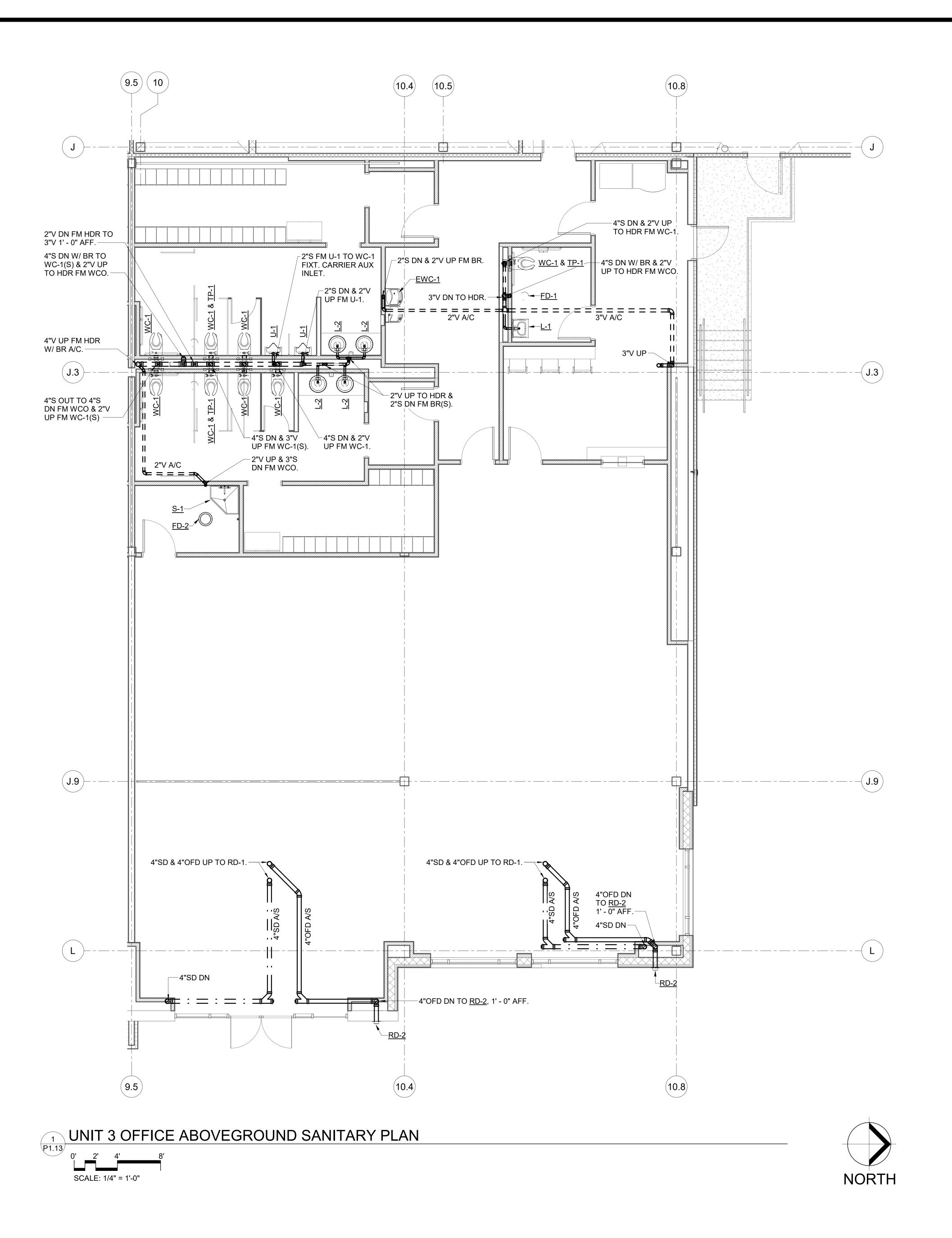


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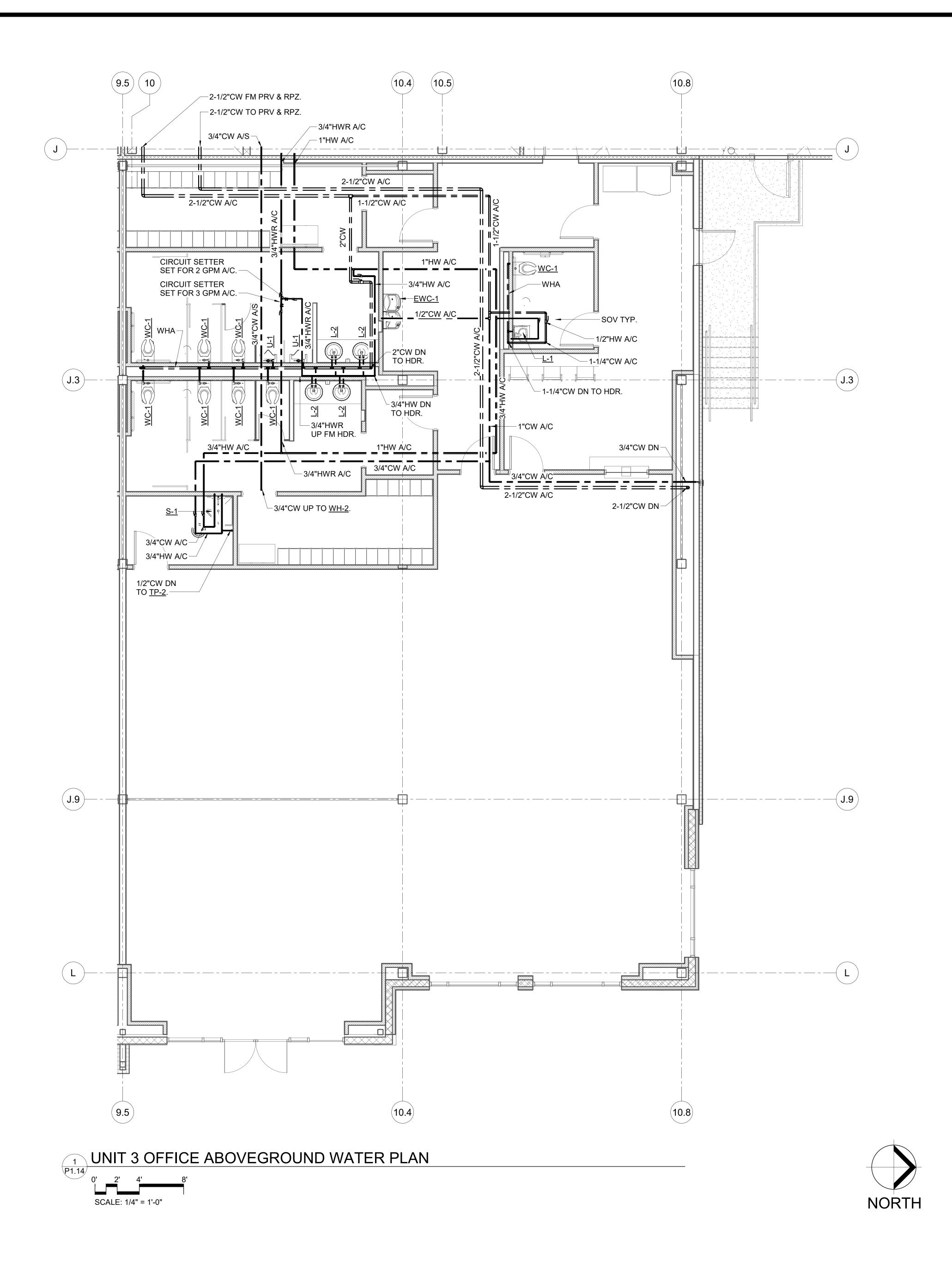
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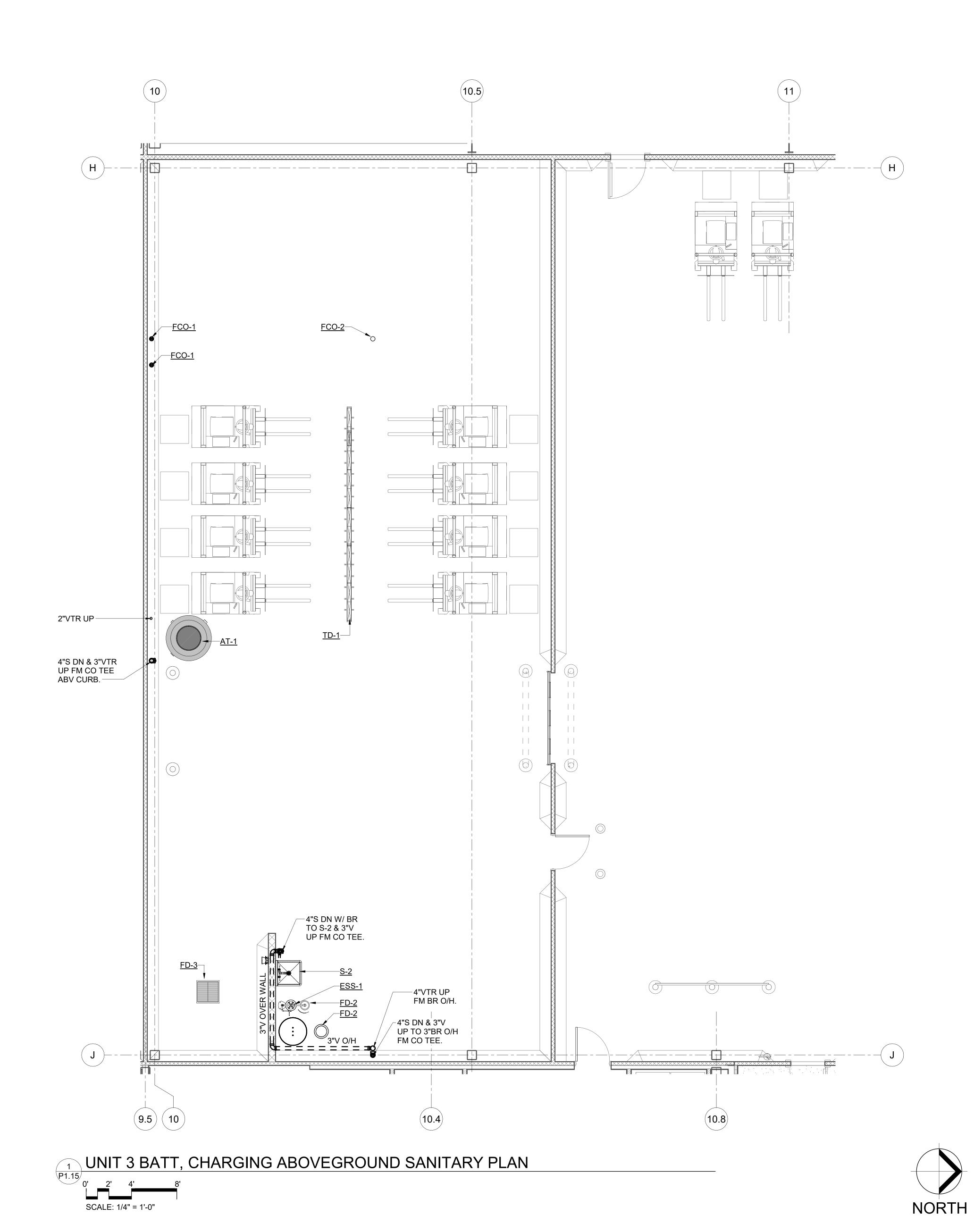
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UNIT 3 OFFICE WATER PLAN

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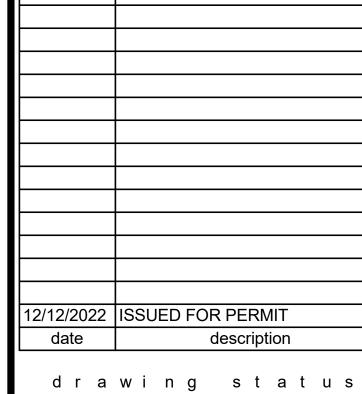
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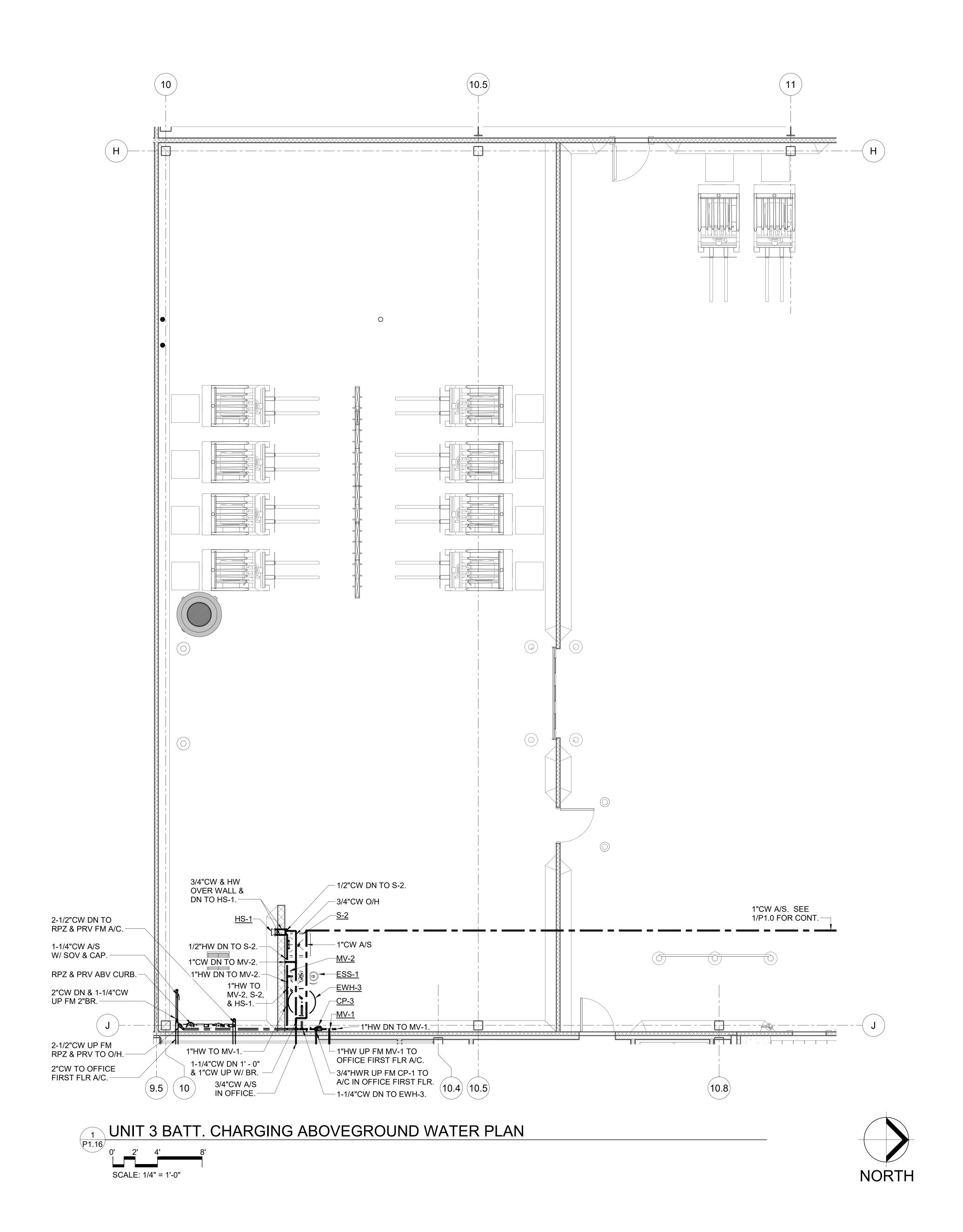


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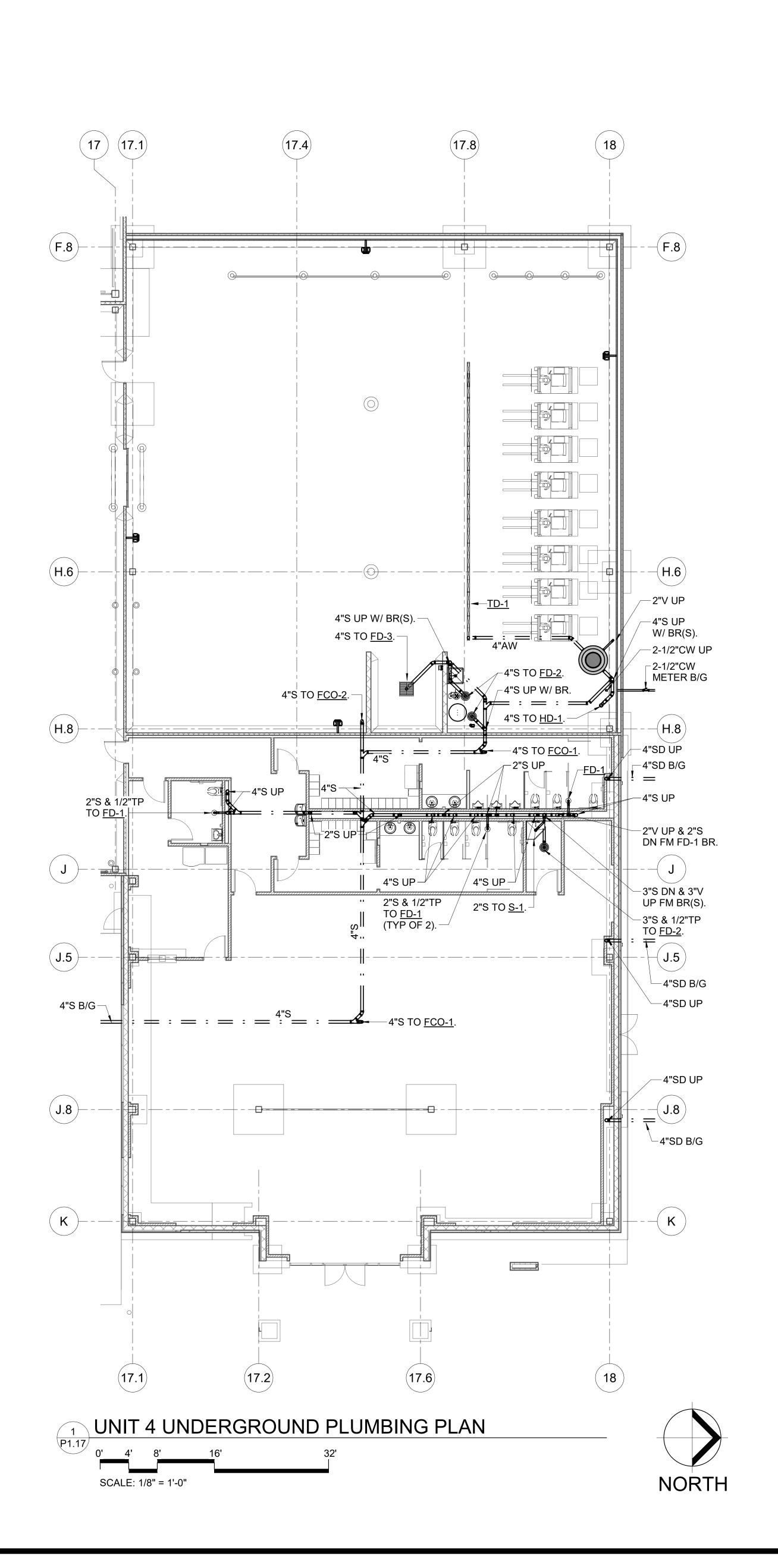


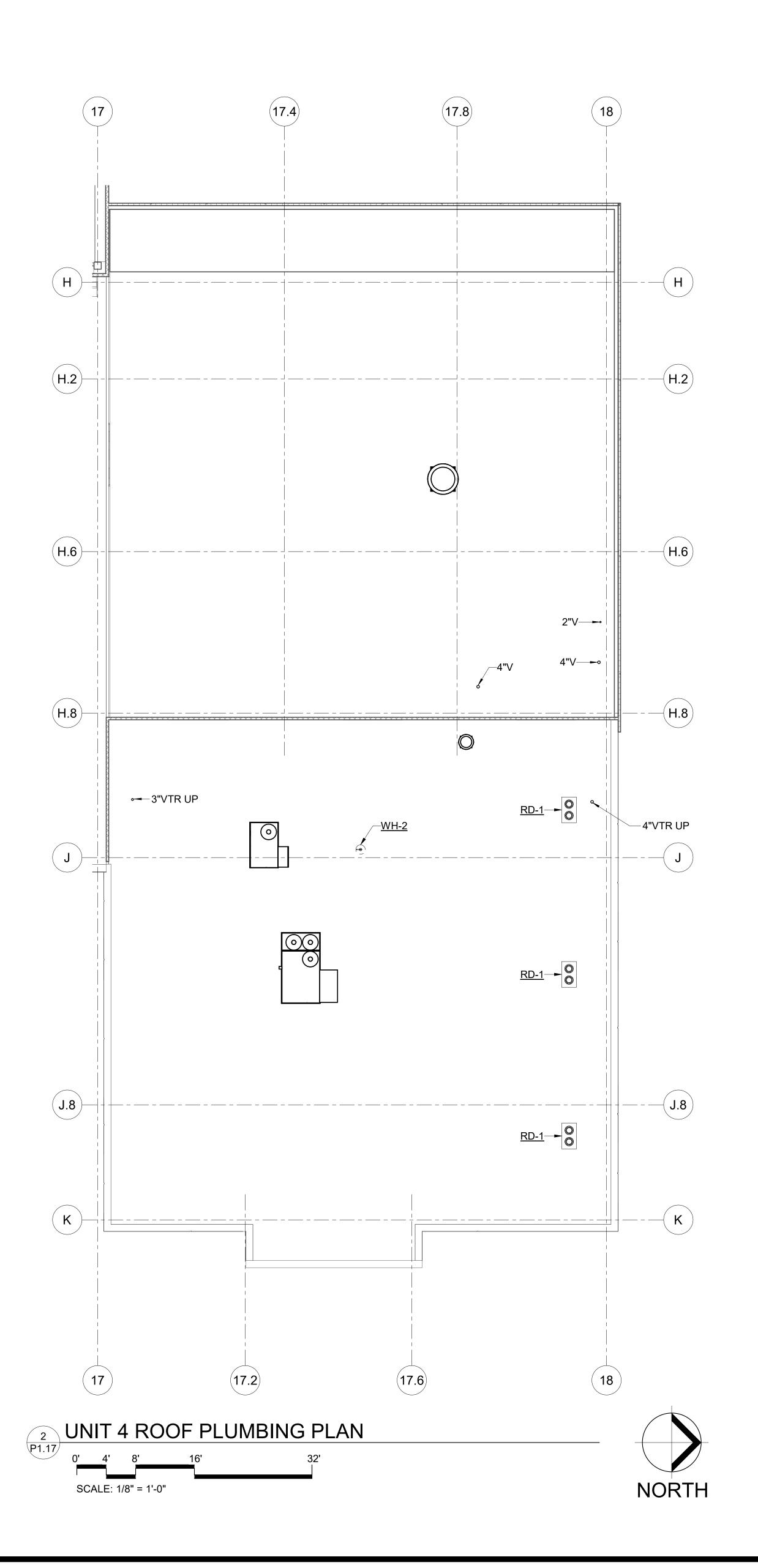
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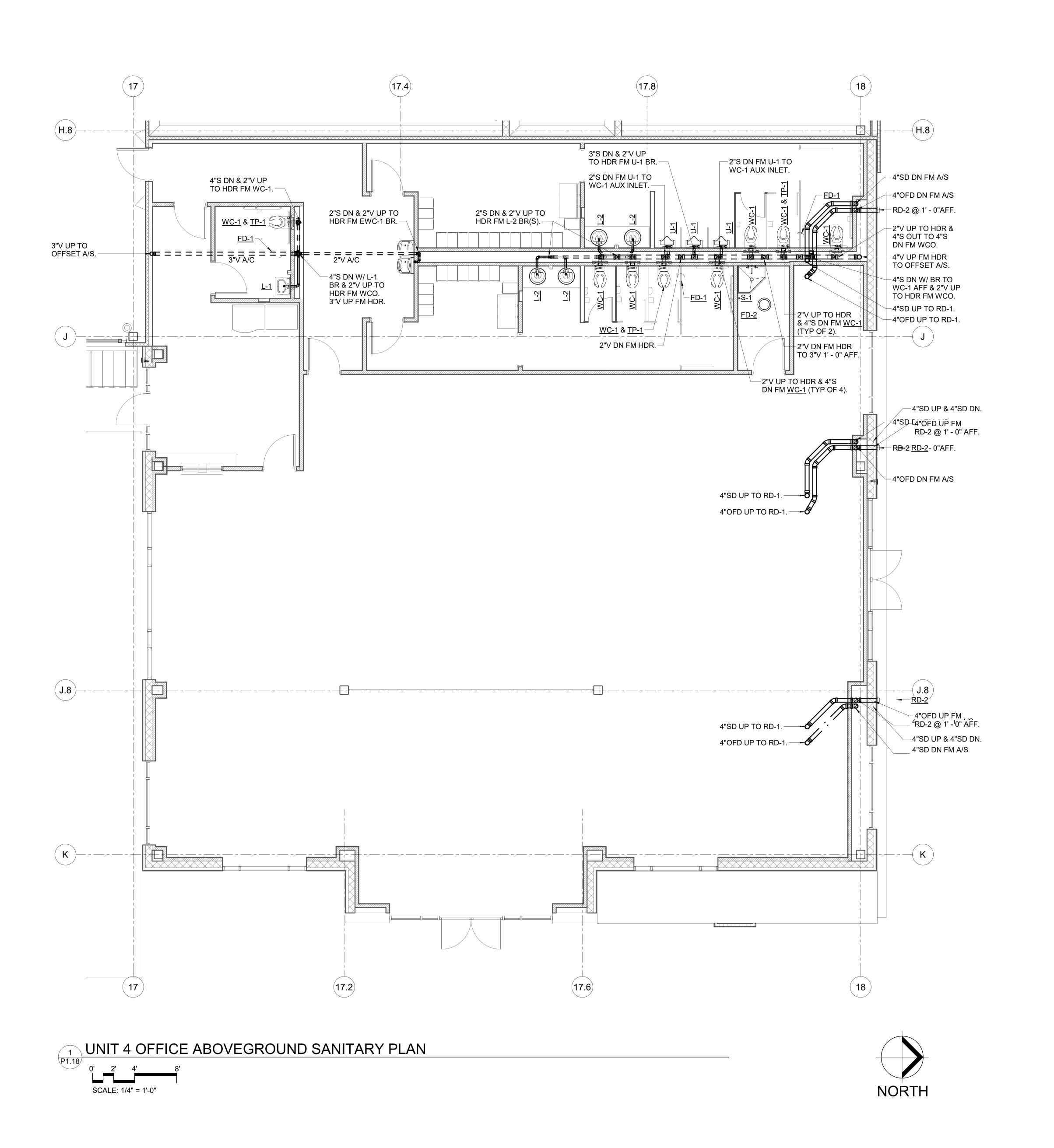
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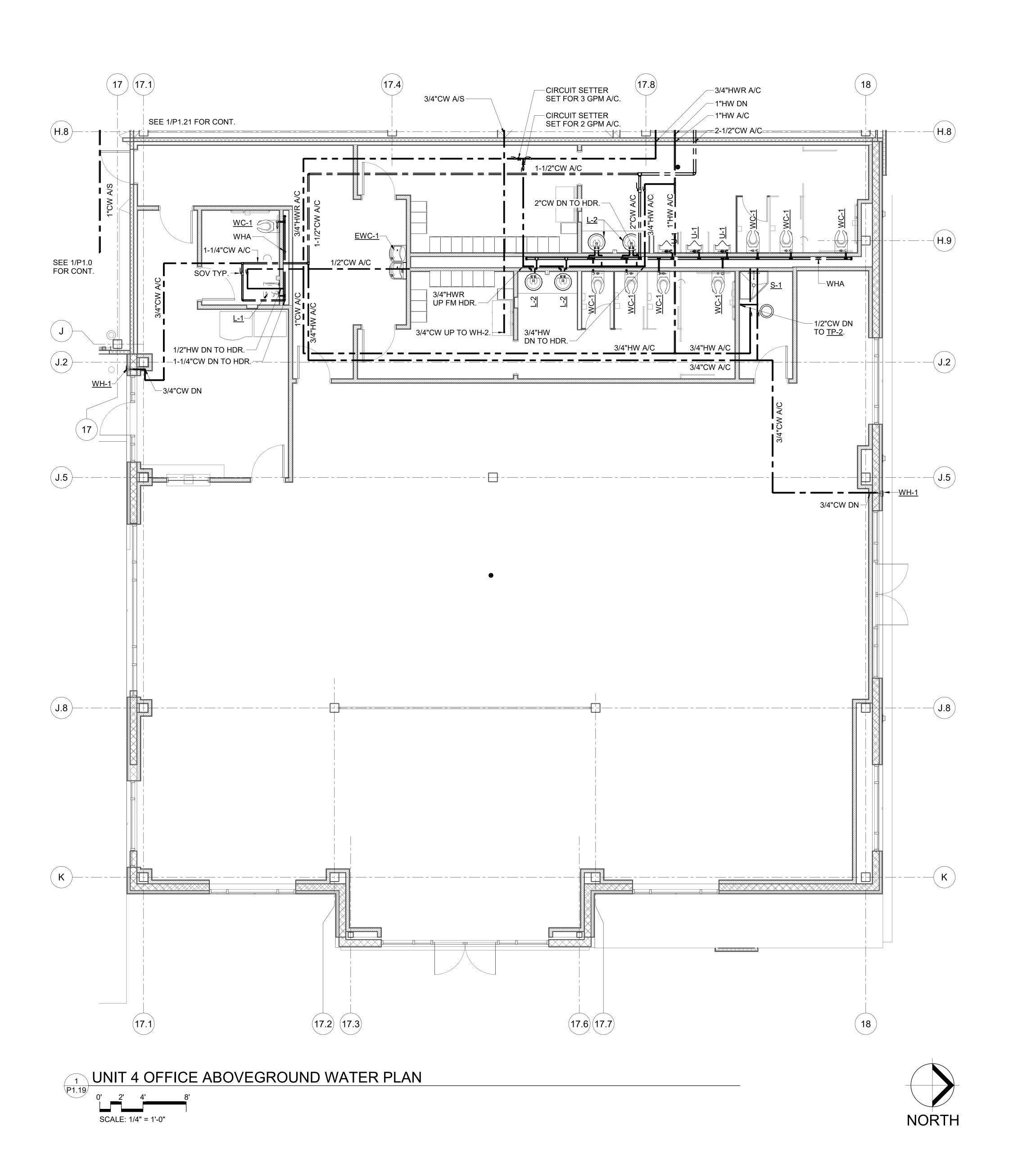
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UNIT 4 OFFICE
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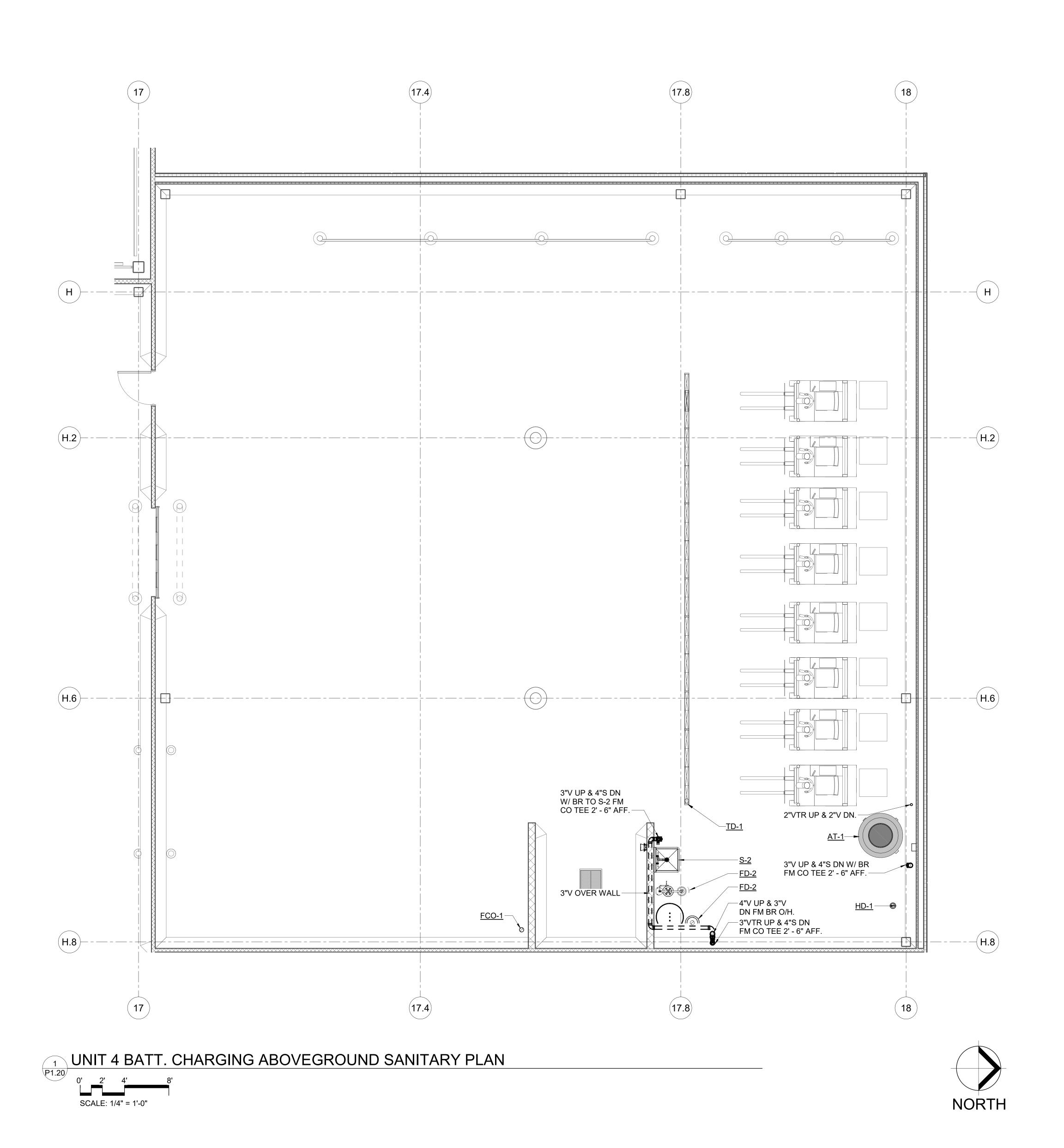


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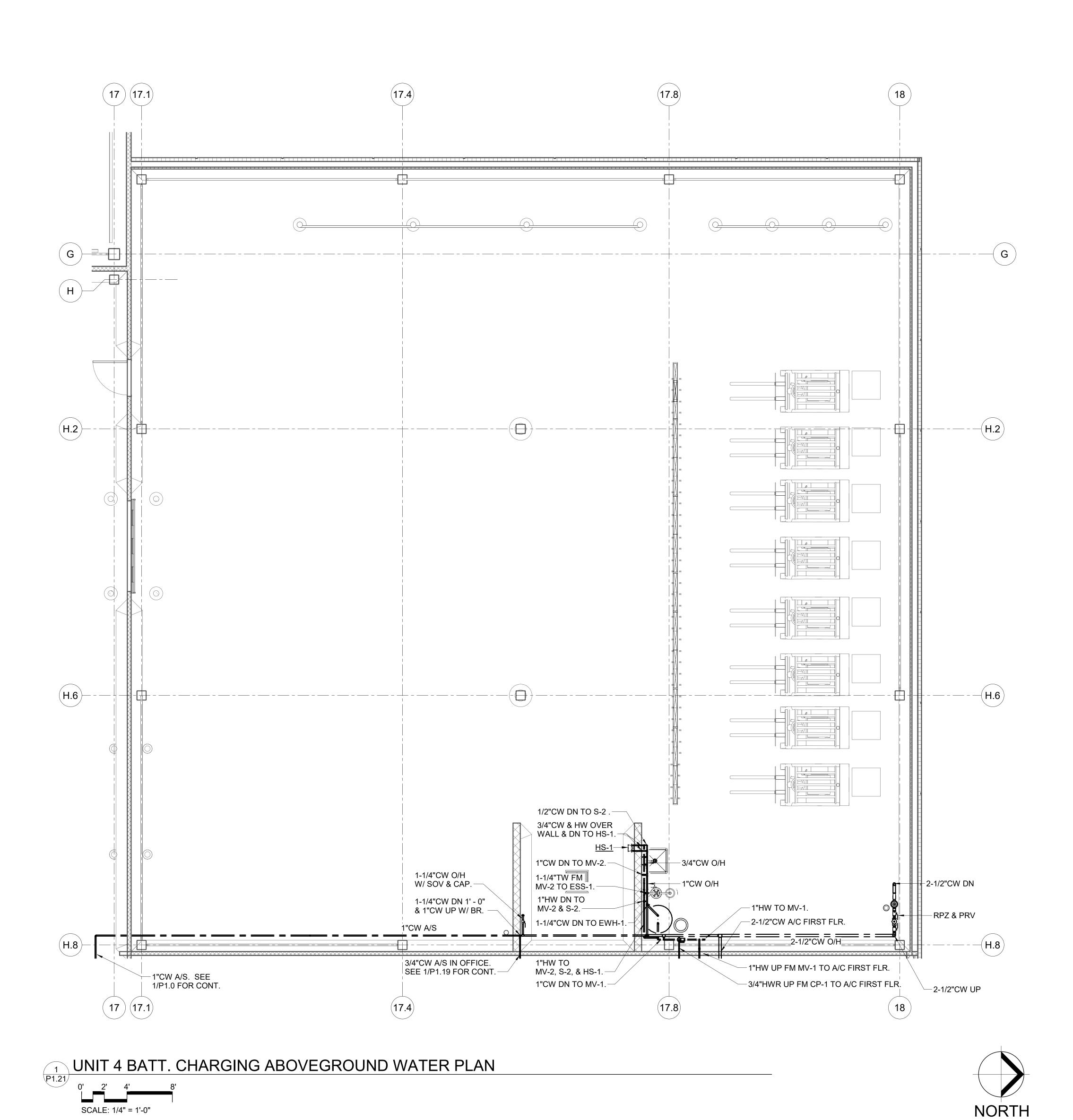


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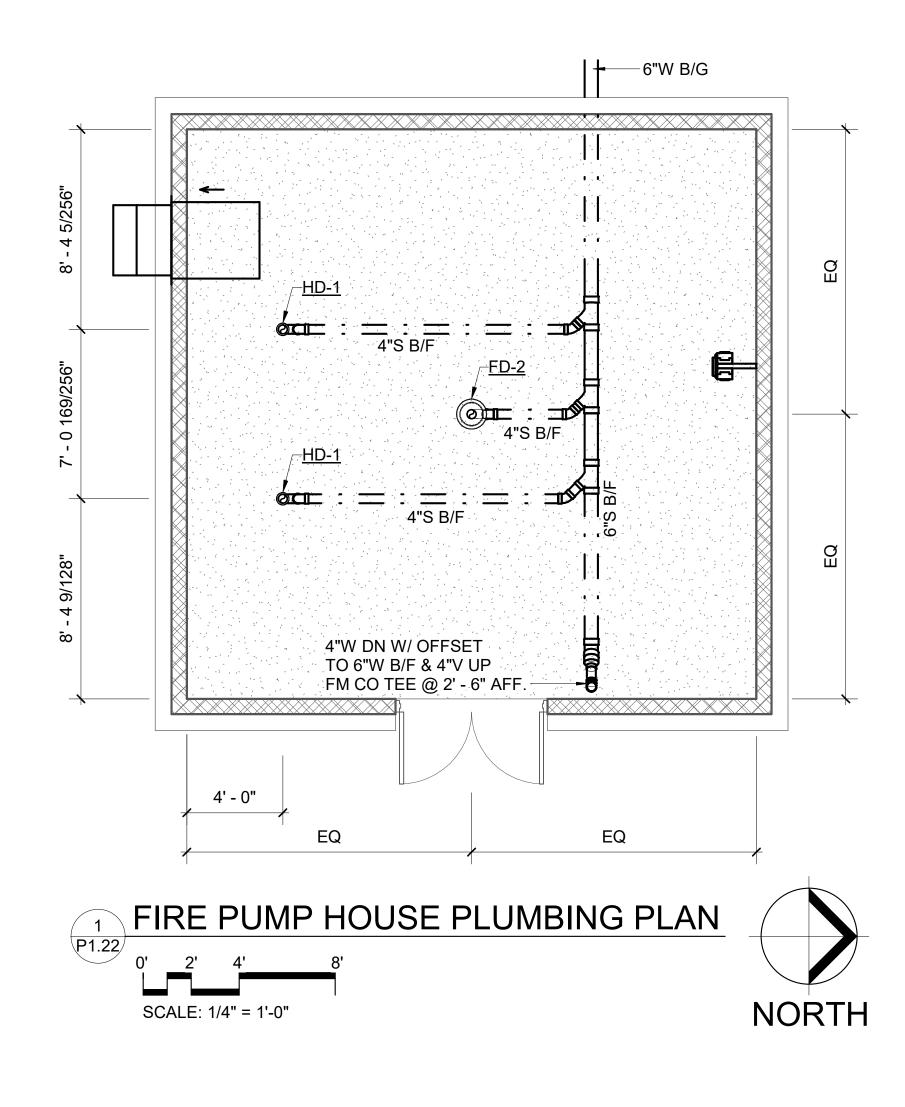


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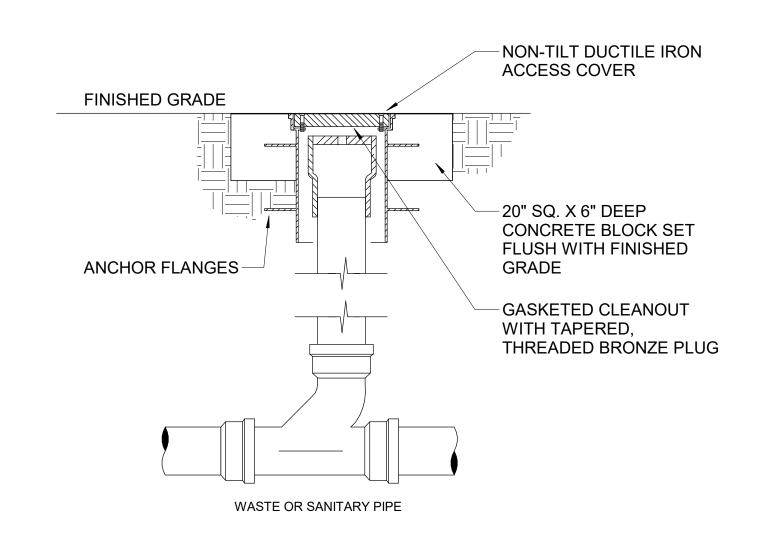
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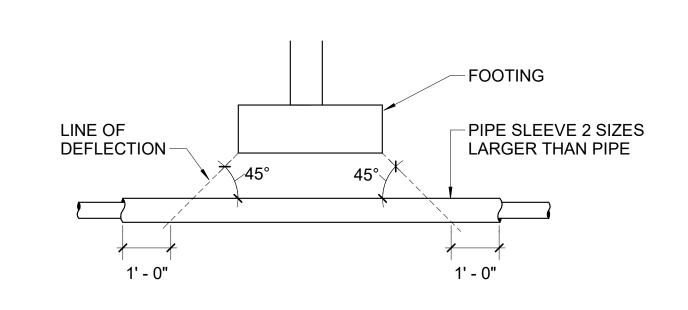
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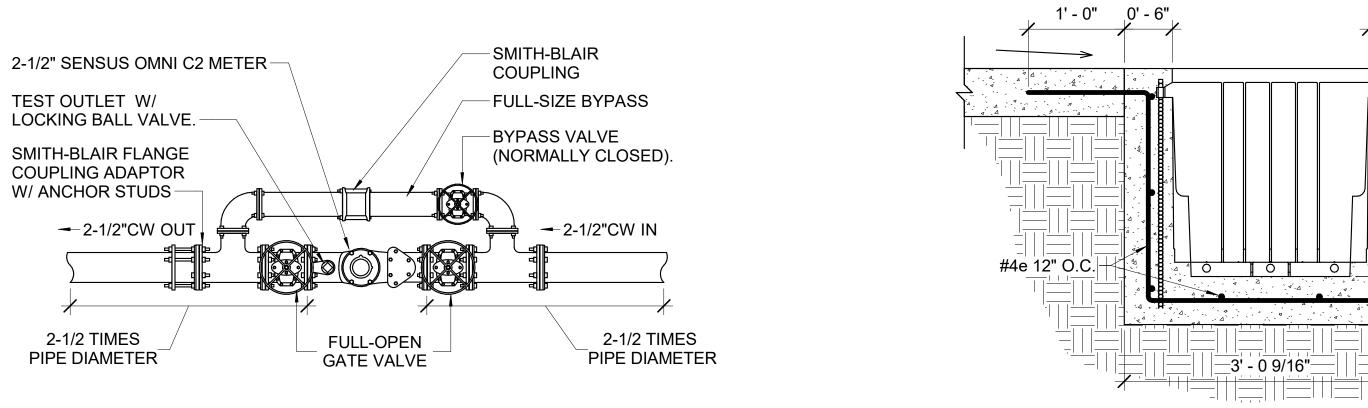
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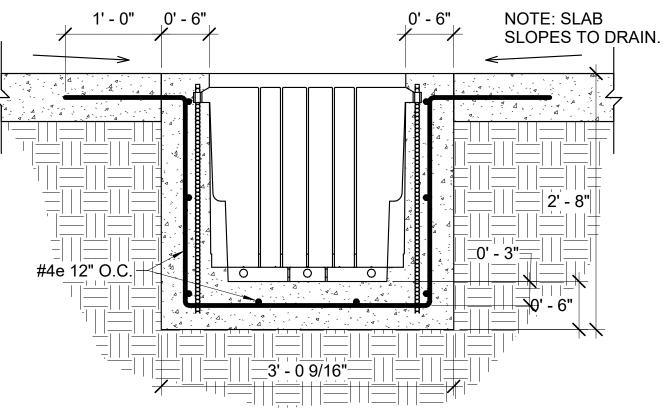
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BUILDING
PLUMBING PLANS









-WALL CONSTRUCTION WILL VARY. REFER TO

DRAWINGS FOR TYPE.

- COUNTERSUNK SCREW

PROVIDE STAINLESS STEEL

COVER OR PAINT COVER

TO MATCH ADJACENT WALL. COORDINATE WITH

CAST IRON RING AND COVER

W+6*

PLAN VIEW

SWB-1

PARK

SAMPLE WELL BASIN

SCALE NONE

2018

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ARCHITECTURAL

-CLEANOUT PLUG



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timothy m. taylor, PE

mechanical engineer

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tel. 770.928.7120

North Carolina Lic. No. 036761

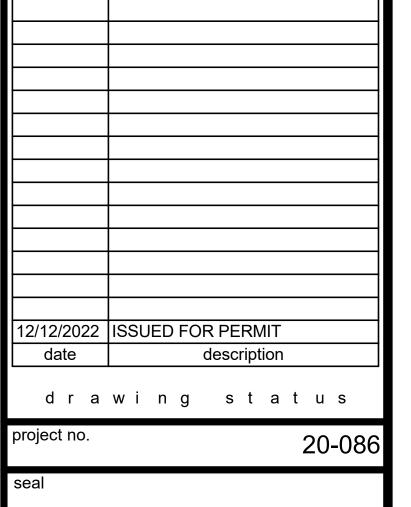
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12/12/22

PLUMBING DETAILS

SAMPLE WELL DETAIL P2.1 N.T.S.

SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.

. INSTALLATION INSIDE BLDG MUST BE POURED IN PLACE (15"MIN) NO CONCRETE PIPE

8. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE

. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY

Class I/II concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

Cast iron rings and grates are manufactured of grey cast iron conforming to ASTM A48 Class 30, Heavy-Duty AASH10_H20/HL93

. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.

SPECIFICATIONS

CONCRETE:

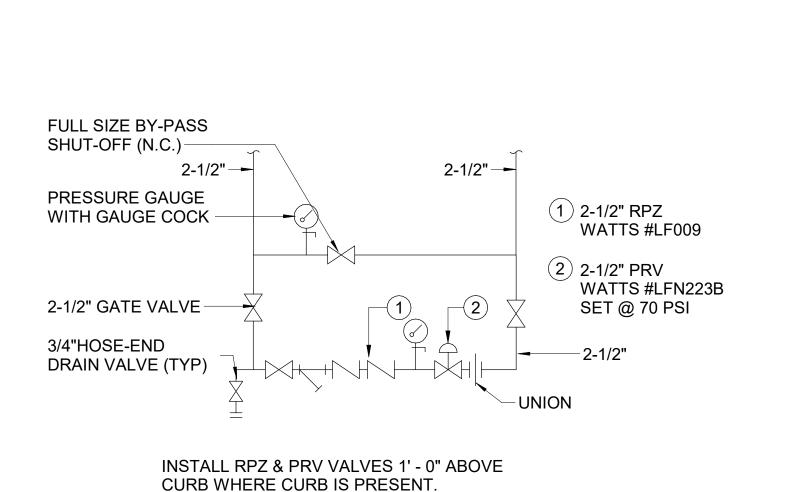


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P2.1 N.T.S.

TP-1 DETAIL

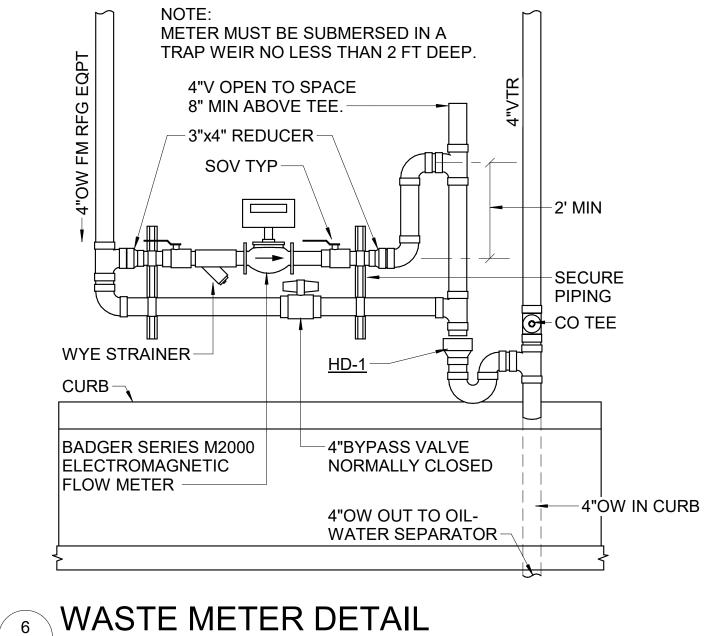


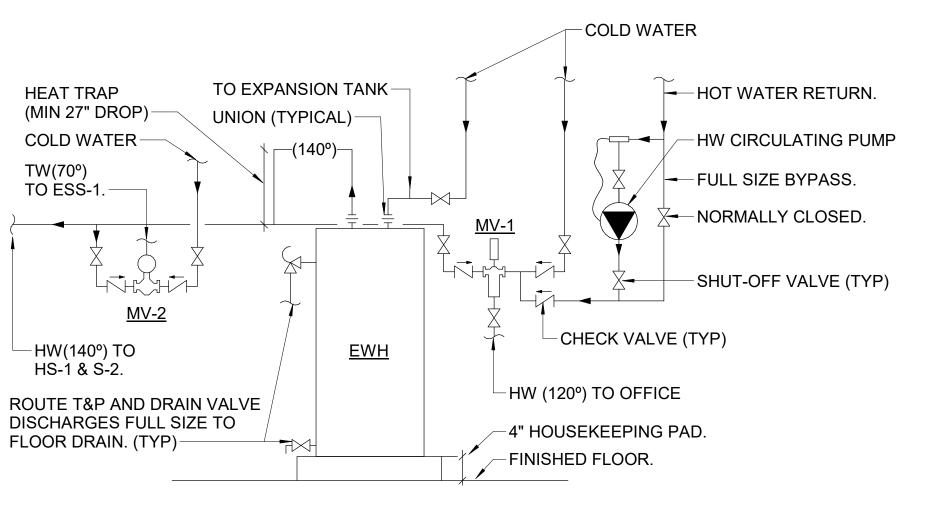


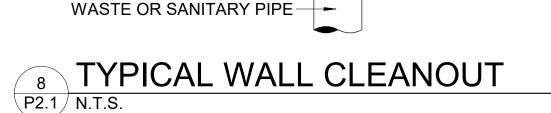
INSULATED AS SPECIFIED

PIPE SADDLE ON HOT WATER

INSULATION PROTECTION SHIELD







CAST IRON RING AND COVER

FD-3 DETAIL

WASTE OR VENT RISER

CLEANOUT TEE-

FINISH FLOOR

VARIES

P2.1 N.T.S.

RPZ & PRV STATION

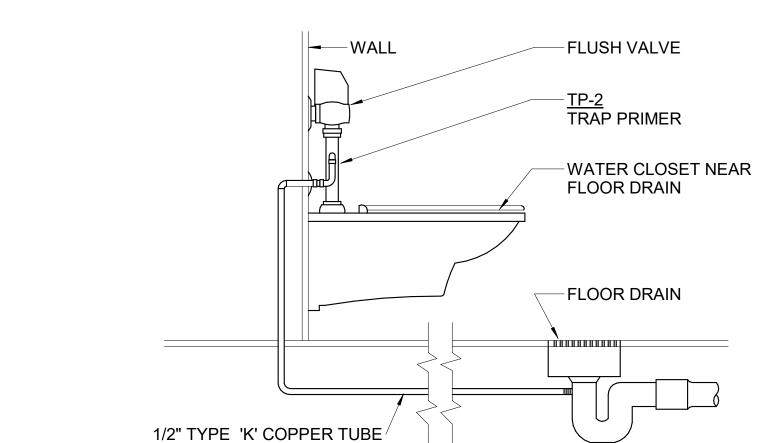
REFER TO SPECIFICATIONS.

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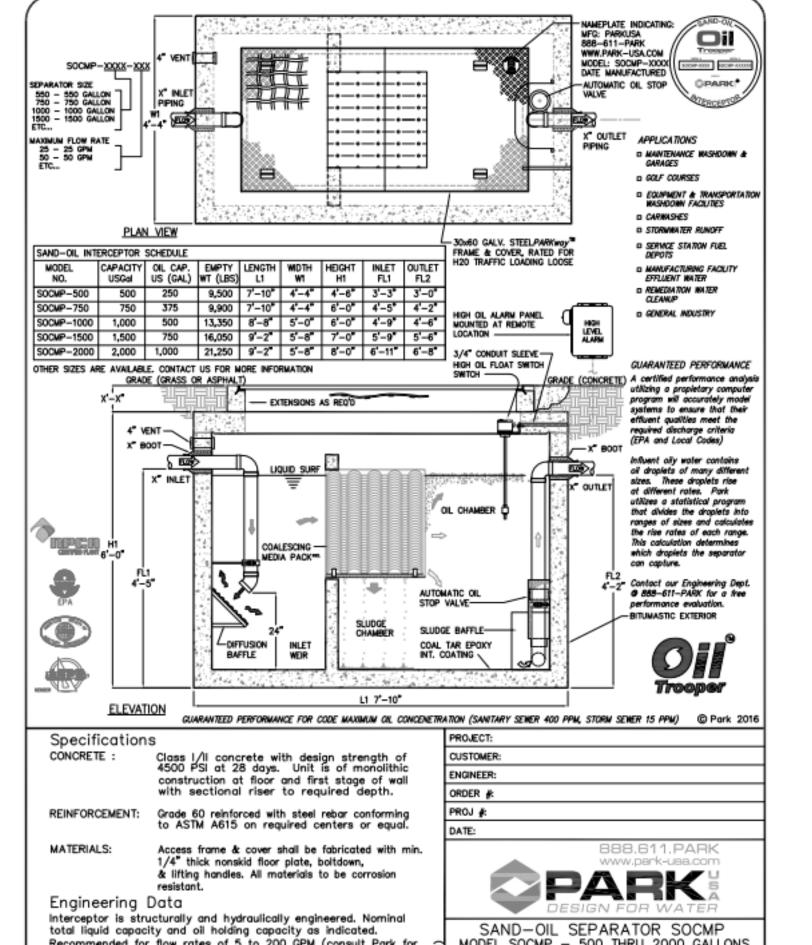
PIPE HANGER DETAIL

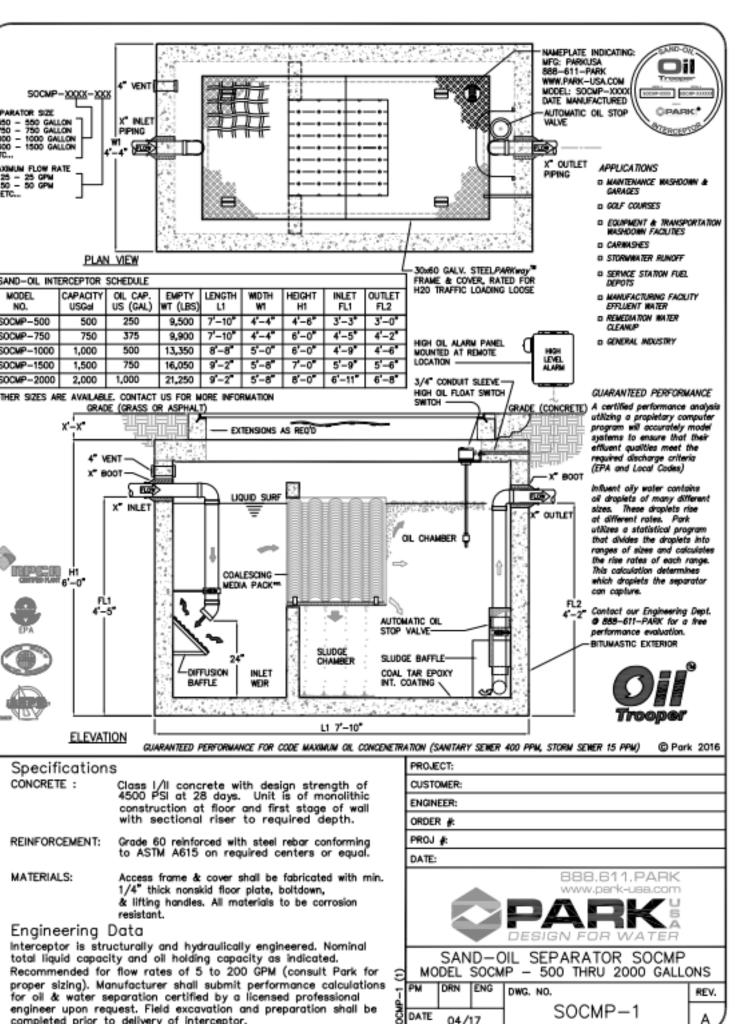
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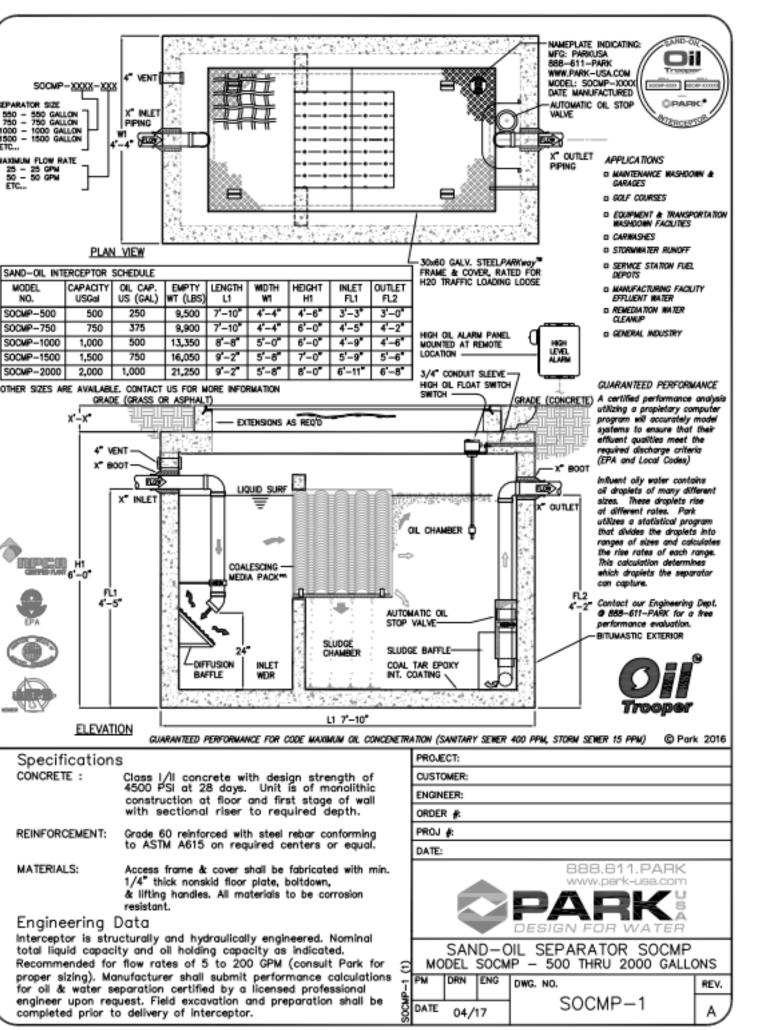
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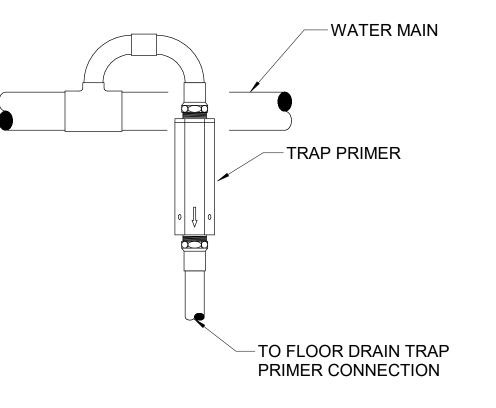




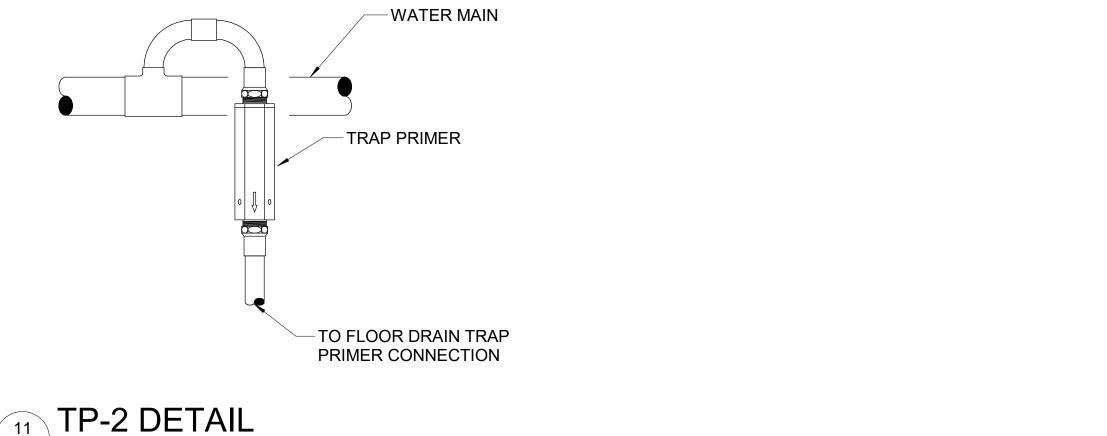




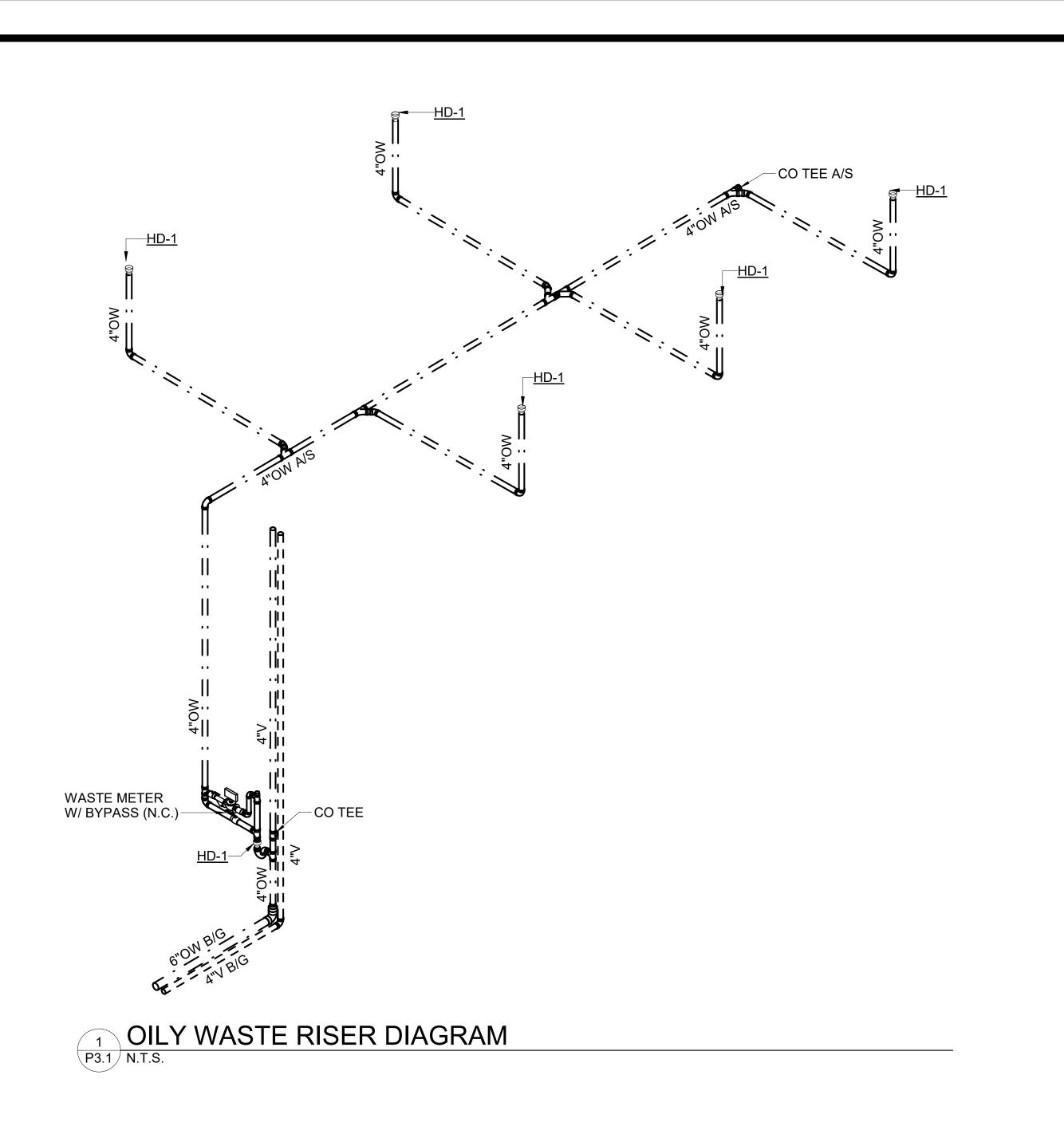


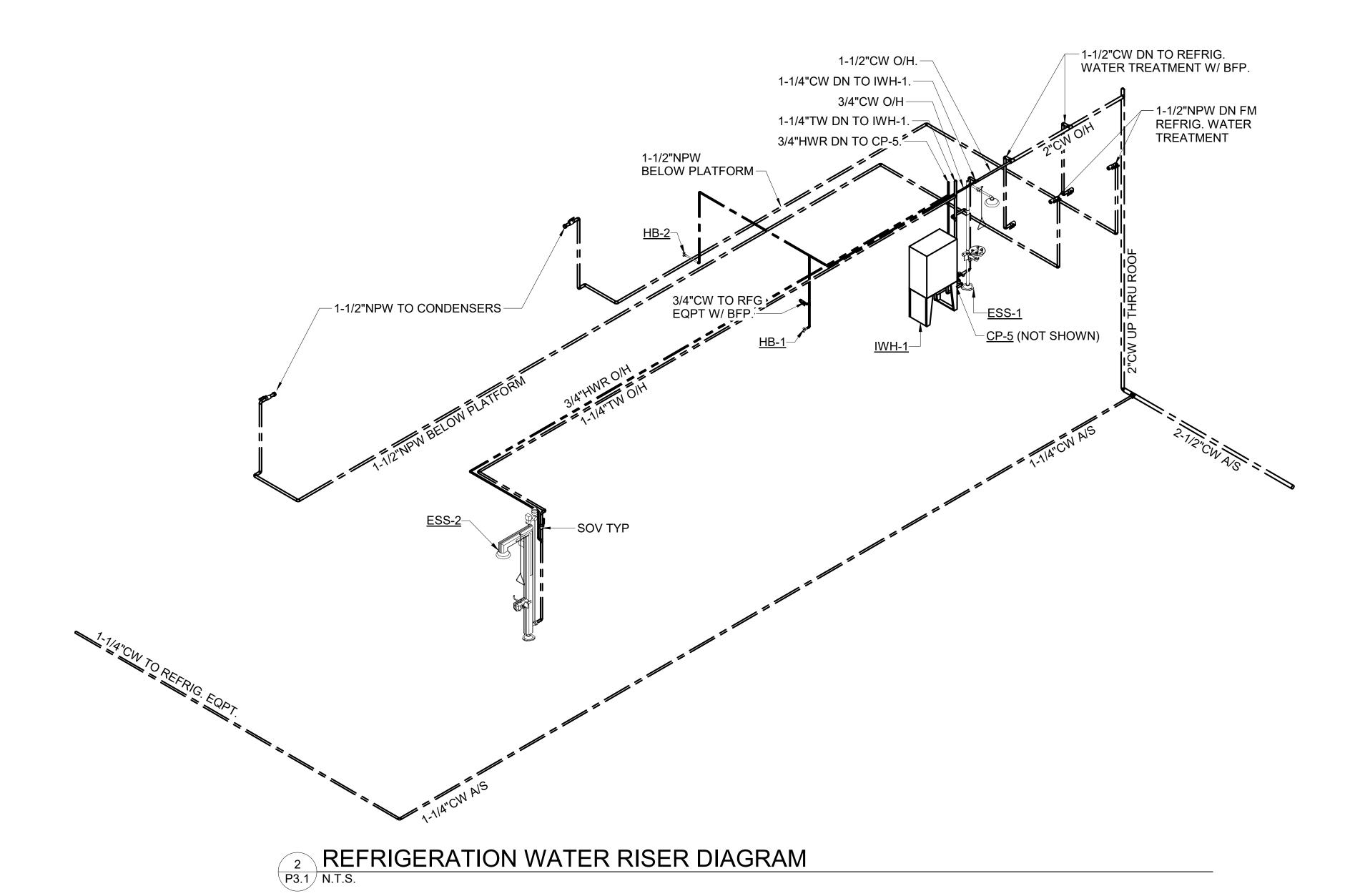


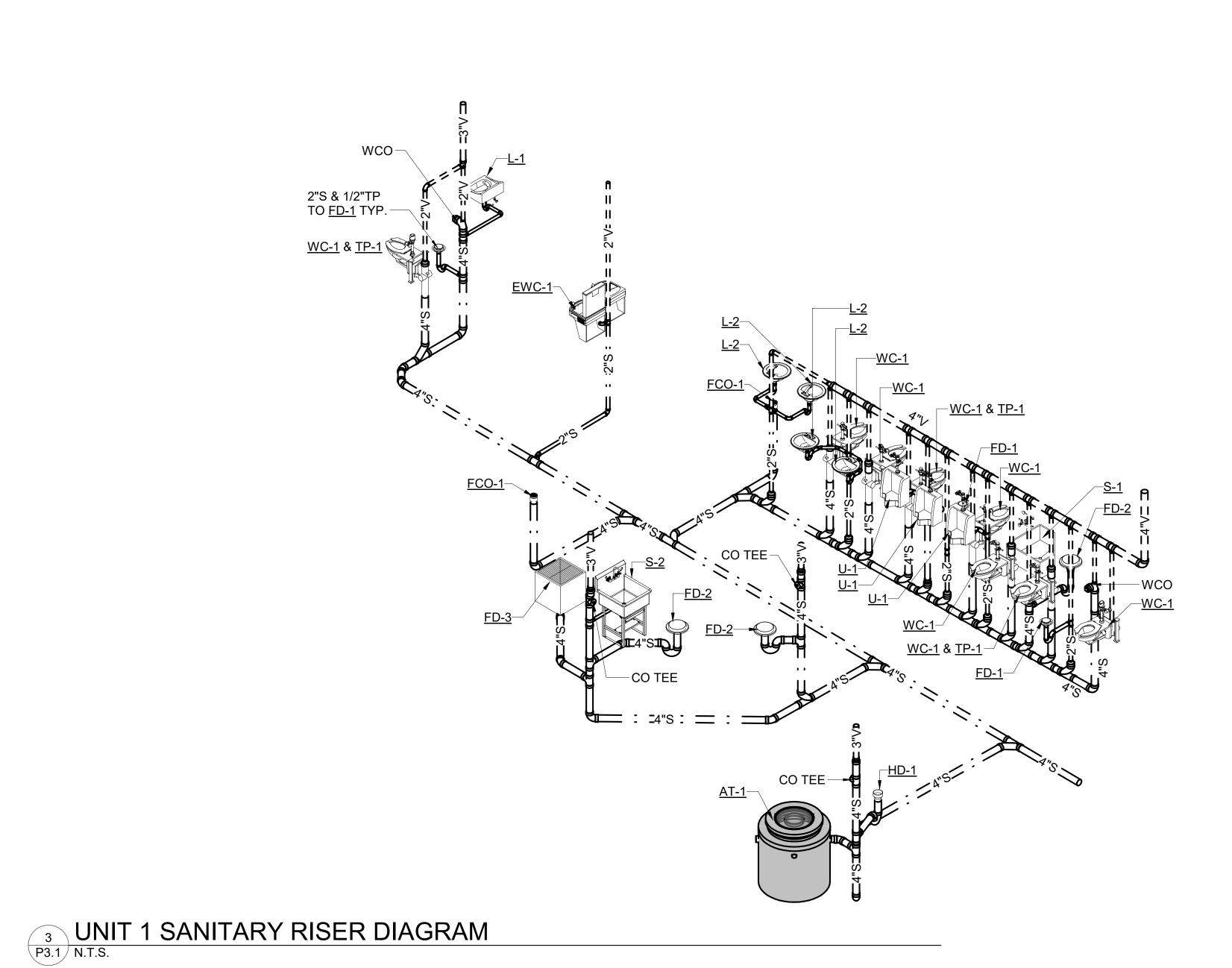
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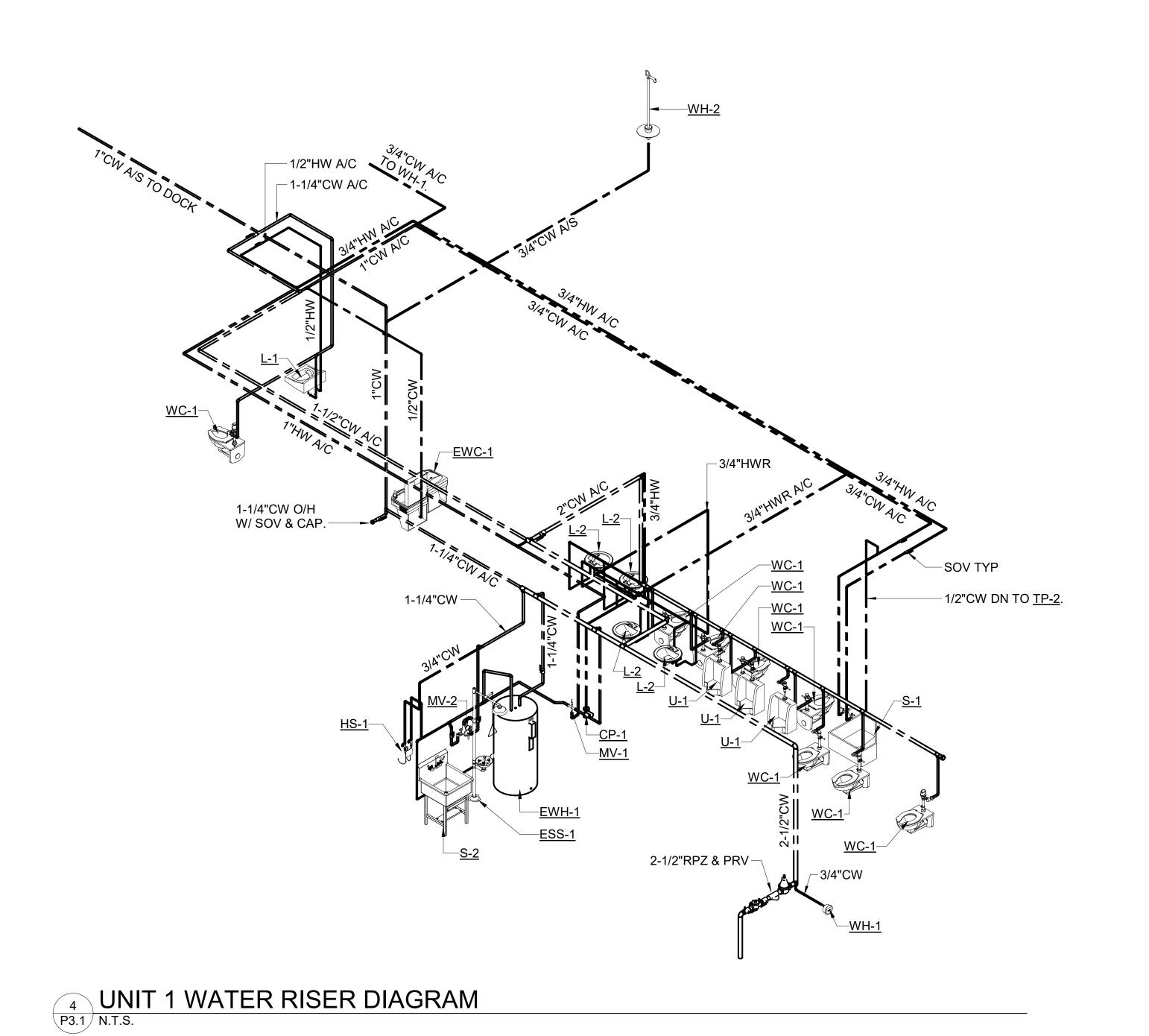


OIL-WATER SEPARATOR DETAIL P2.1 N.T.S.









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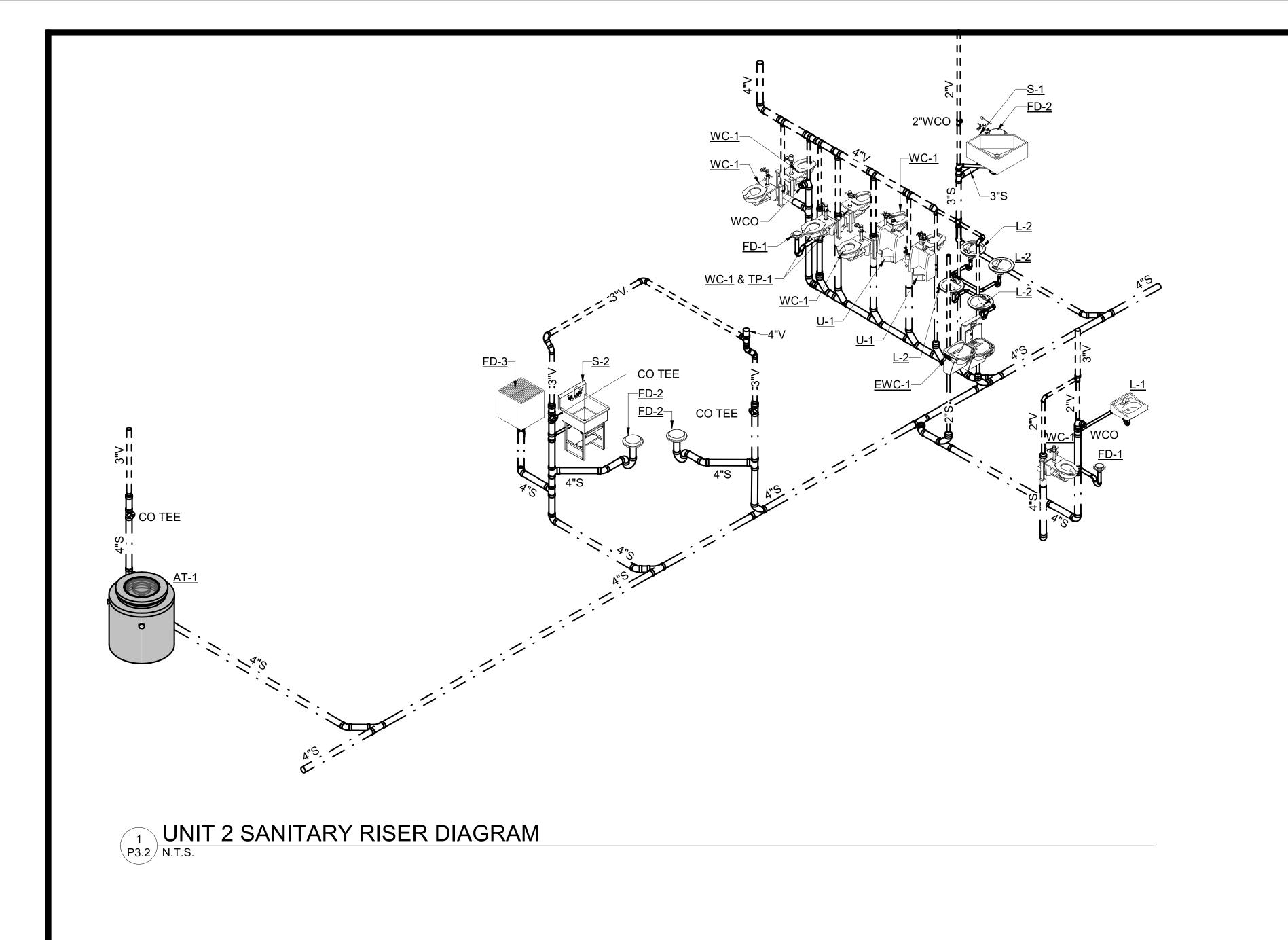
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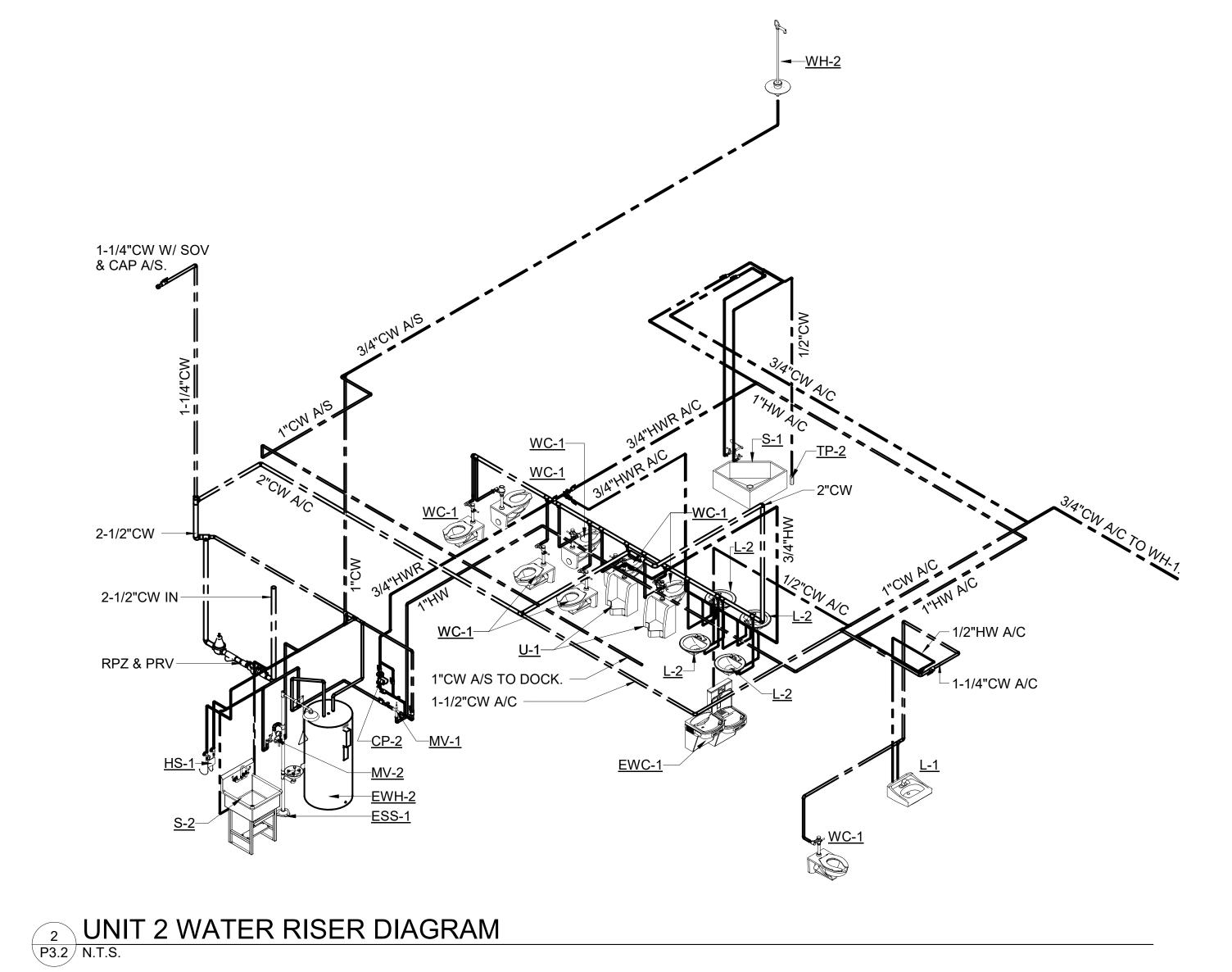


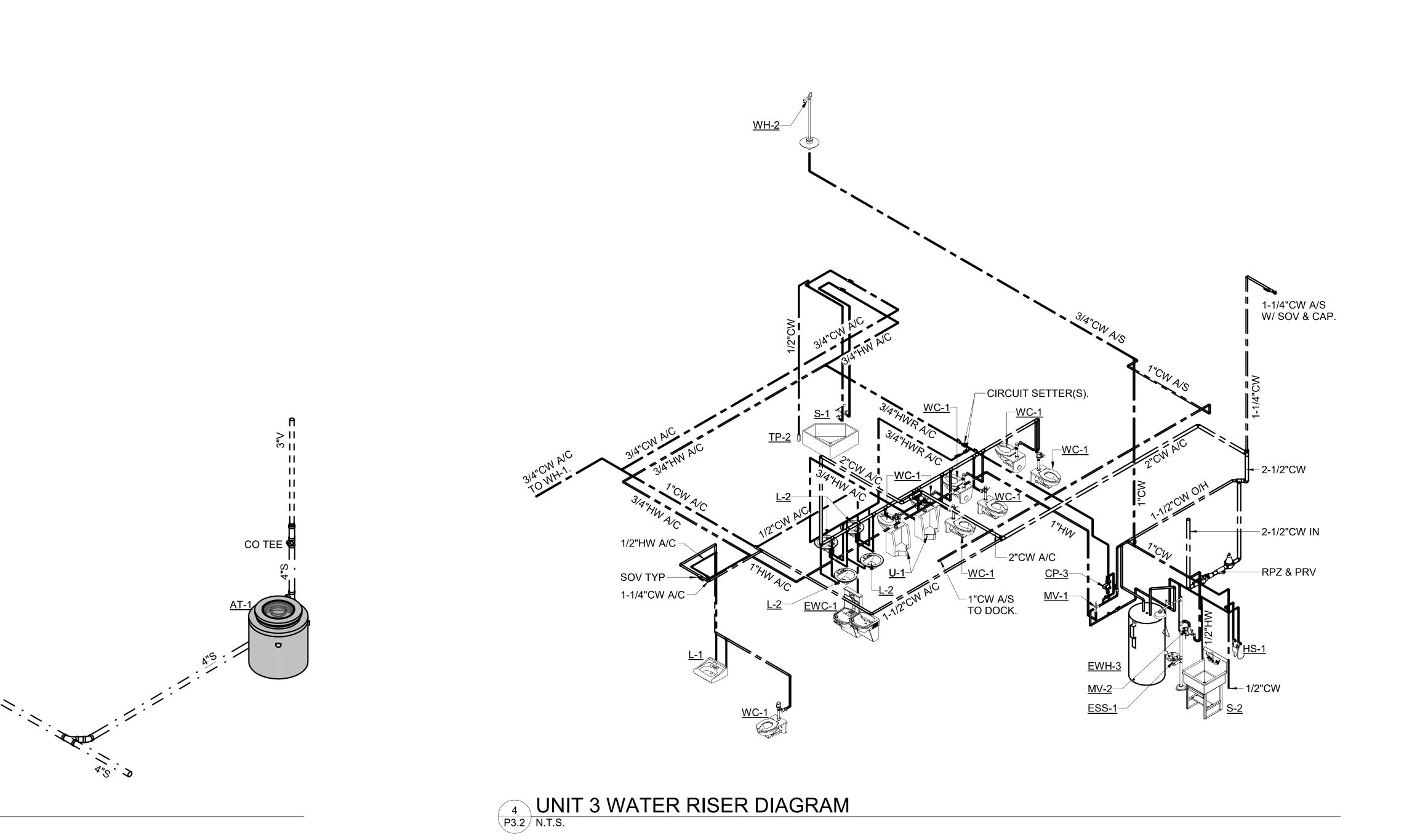
UNIT 1 PLUMBING RISER DIAGRAMS

P3.1



UNIT 3 SANITARY RISER DIAGRAM





timothy m. taylor, PE mechanical engineer

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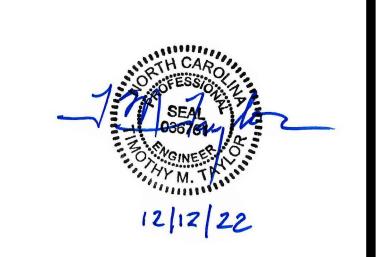
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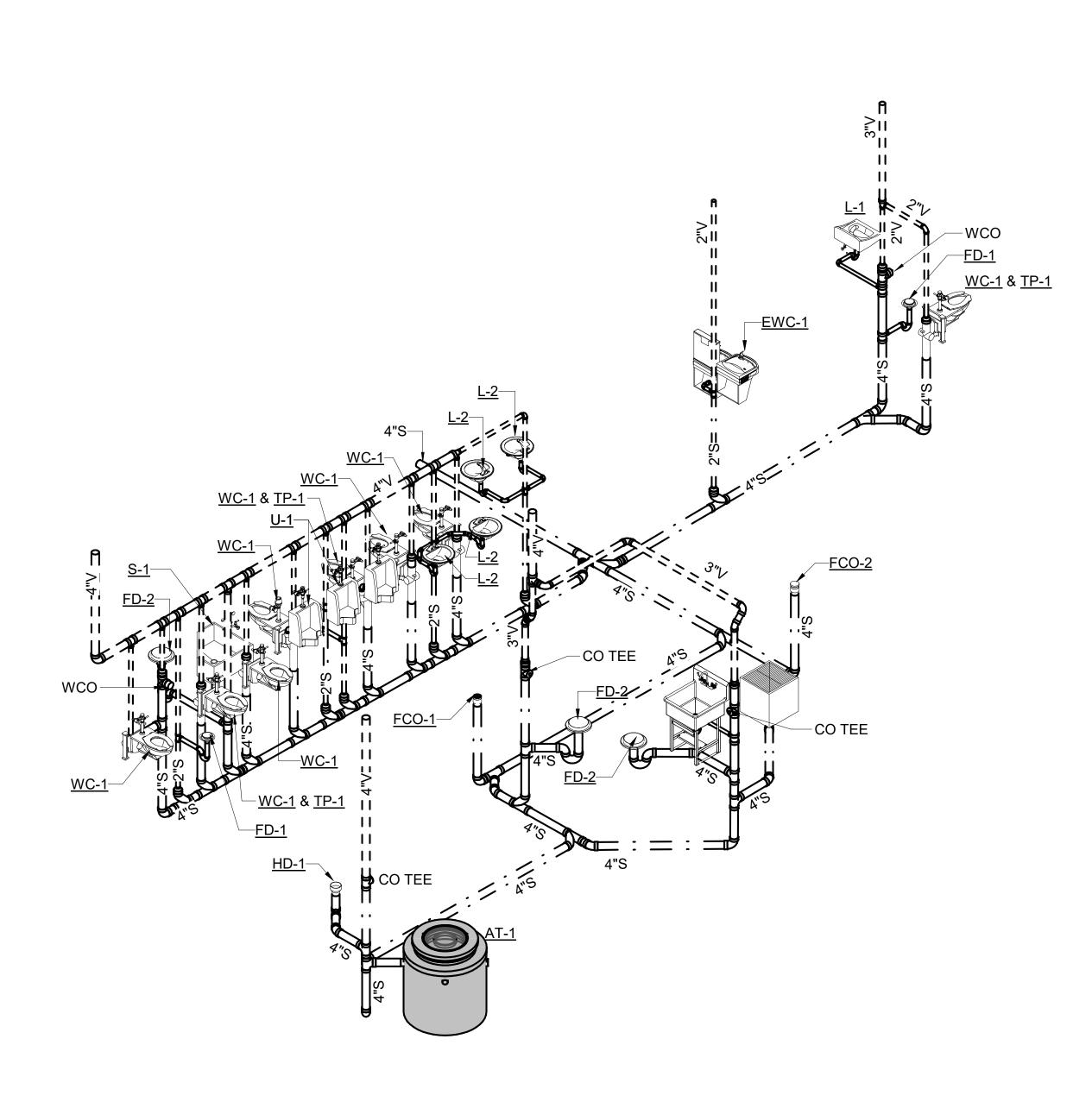
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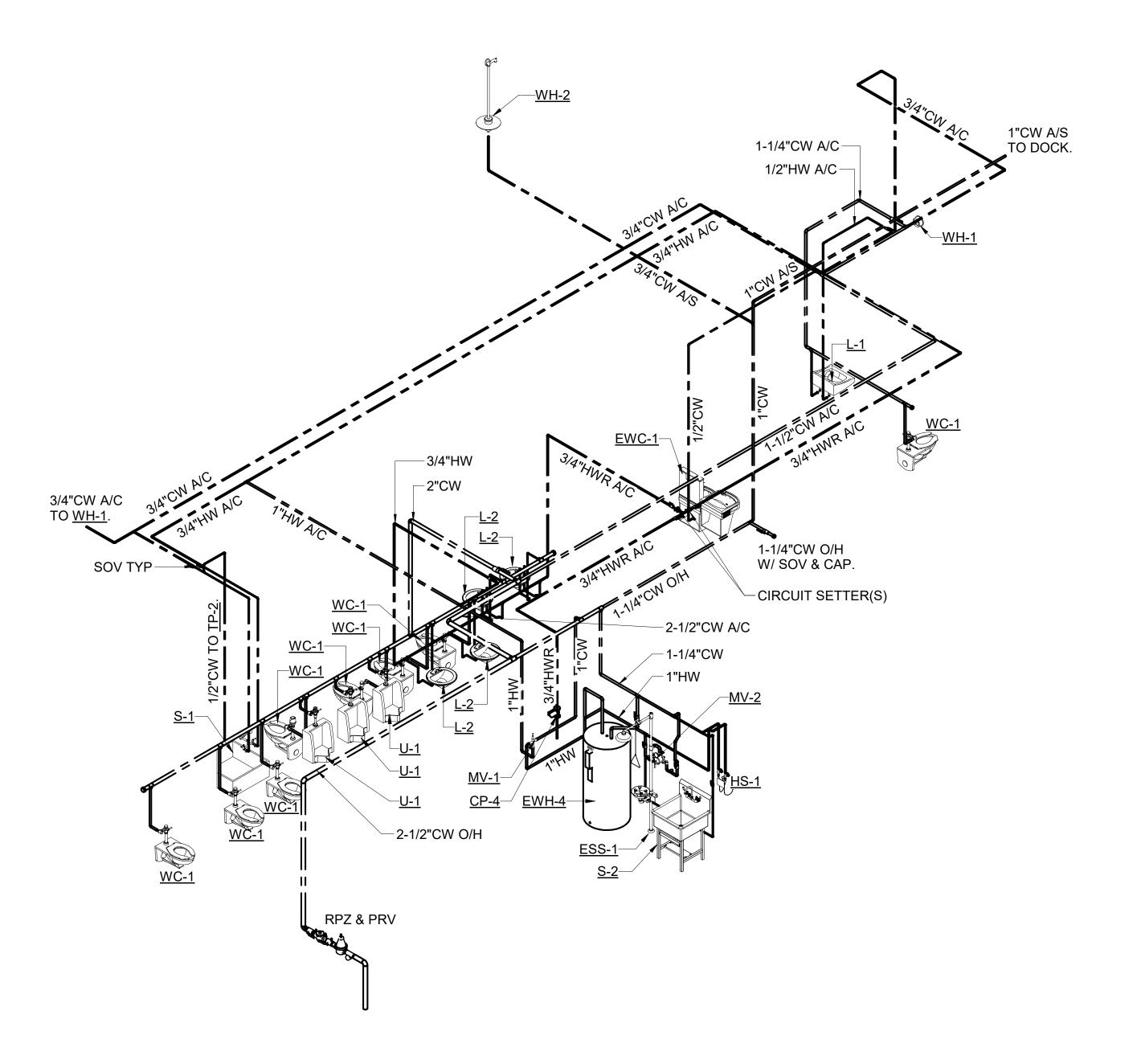


UNIT 2 AND UNIT 3 PLUMBING RISER DIAGRAMS

P3.2



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



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

timothy m. taylor, PE mechanical engineer

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UNIT 4 PLUMBING RISER DIAGRAMS

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P3.3