PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	EQUIPMENT BASIS OF DESIGN	CONNECTION SIZE	REMARKS	SUBMITTAL REQUIRED
	BALL VALVE	WATTS - FBV-4	EQUAL TO PIPE SIZE	FULL PORT QUARTER TURN	NO
FCO/ECO	FLOOR/EXTERIOR CLEANOUT	WATTS CO-1190-PR60	EQUAL TO PIPE SIZE UP TO 4"	INSTALL FLUSH WITH FINISHED FLOOR OR GRADE ROUND NICKEL-BRONZE TOP	YES
WH-1	EXTERIOR WALL HYDRANT	WATTS HY-450	3/4"	PROVIDE WITH BALL VALVE, MOUNT 24" ABOVE FINISHED GRADE	YES
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD MODEL 170-LF	1/2"	PROVIDE AT ALL LAVATORIES AND HAND SINKS SEE DETAILS, SET MAX TEMP TO 110°F	YES
TMV-2	MASTER MIXING VALVE	BRADLEY S59-2025	1" IN, 1-1/4" OUT	PROVIDE AT EWH-1 140°F OUTLET. SET MAX TEMP TO 120°F, SEE DETAIL.	YES
WHA	WATER HAMMER ARRESTOR	PRECISION PLUMBING PRODUCTS SC SERIES	1/2", 3/4" OR 1"	USE PDI WH201 STANDARDS	YES
WCO	WALL CLEANOUT	WATTS CO-440-RD	EQUAL TO PIPE SIZE UP TO 4"	MINIMUM 12" AFF SURFACE, PROVIDE COVER AND BRASS SCREW	YES
FD-1	FLOOR DRAIN	WATTS FD-100-A-7	3"	ROUND HEEL-PROOF TYPE STRAINER, SCHEDULE 40 GASKET, TRAP PRIMER CONNECTION. SEE FLOOR DRAIN DETAIL.	YES
BV-1	HOT WATER RETURN BALANCING VALVE	KEMPER MULTITHERM 15404 SERIES	EQUAL TO PIPE SIZE	THERMOSTATIC BALANCING VALVE WITH INTEGRATED, UNION AND LEAD FREE BALL VALVES.	YES
RCP-1	CIRCULATING PUMP	TACO 007	3/4"	5 GPM @ 11 FT. HD., 120V/1PH, PROVIDE W/ PROGRAMMABLE TIMER AND AQUASTAT, PIPE CONNECTION SIZES - 3/4" HWR.	YES
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS P1-500	1/2"	MAY BE USED WITH DISTRIBUTION BLOCK PRECISION PLUMBING PRODUCTS MODEL DU-4	YES
FD-1	FLOOR SINK	WATTS FS-740	LINE SIZE	IMPACT MODIFIED PVC BODY W/ PVC 1/2 GRATE AND STRAINER SEE FLOOR SINK DETAIL.	YES
HB-1	HOSE BIBB	WATTS SC8	1/2"	PROVIDE WITH BALL VALVE, MOUNT 24" ABOVE FINISHED GRADE	YES
RH-1	ROOF HYDRANT	WATTS HY-900	3/4"	PROVIDE WITH BALL VALVE AND CAP DRAIN LINE AS REQUIRED	YES

NOTE: MANUFACTURER AND MODEL NUMBER INTENDED FOR LEVEL OF QUALITY. SUBSTITUTIONS MAY BE SUBMITTED IF QUALITY MEETS THIS LEVEL.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	ROUGH-IN CONNECTIONS CW	110° HW	DIRECT WASTE	VENT	PLUMBING FIXTURE BASIS OF DESIGN	FAUCET/VALVE ASSEMBLY BASIS OF DESIGN	STRAINER, DRAIN & TRAP BASIS OF DESIGN	REMARKS	SUBMITTAL REQUIRED
WC-1	CHILD HEIGHT FLOOR MOUNT TANK WATER CLOSET	3/4"	--	4"	2"	AM. STANDARD 2315228	INCLUDED 1.28 GPF	--	1.28 GPF, 10" AFF FLOOR MOUNTED TANK TOILET. PROVIDE BRASSCRAFT ANGLE STOP, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON. INCLUDE AM. STANDARD 5001G.055 OPEN FRONT SEAT. FLUSHING LEVER TO BE ON WIDE SIDE.	YES
WC-2	CHILD ADA / STANDARD FLOOR MOUNT TANK WATER CLOSET	3/4"	--	4"	2"	AM. STANDARD 2462100	INCLUDED 1.1 GPF	--	1.1 GPF, RIM 15" AFF FLOOR MOUNTED TANK TOILET. PROVIDE BRASSCRAFT ANGLE STOP, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON. INCLUDE BEMIS 1955CT SEAT.	YES
WC-3	ADULT ADA FLOOR MOUNT TANK WATER CLOSET	3/4"	--	4"	2"	AM. STANDARD 215AA104	INCLUDED 1.1 GPF	--	1.28 GPF, RIM 16.5" AFF FLOOR MOUNTED TANK TOILET. PROVIDE BRASSCRAFT ANGLE STOP, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON. INCLUDE BEMIS 1955CT SEAT.	YES
UR-1	ADA WALL MOUNT FLUSH VALVE URINAL	3/4"	--	4"	2"	AM. STANDARD 6590.001	AM. STANDARD 6063.013	--	0.125 GPF, 3/4" TOP SPUD URINAL. PROVIDE ZURN Z1222 FLOOR MOUNTED WALL CARRIER. INSTALL ACCORDING TO MANUFACTURER ADA GUIDELINES.	YES
L-1	ADA WALL MOUNTED LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	AM. STANDARD 0356.421	T&S EC-3142-VF05	GRID STRAINER	21-1/4"x21-1/4"x6" DEEP WALL HUNG LAVATORY. ELECTRONIC SENSOR, 0.5 GPM FAUCET. PROVIDE ZURN Z1231EZ CONCEALED ARM CARRIER. PROVIDE BRASSCRAFT ANGLE STOPS, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON.	YES
L-2	UNDERMOUNT LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	AM. STANDARD 9482.000	T&S EC-3142-VF05	GRID STRAINER	15"x12"x5" DEEP ROUND UNDER-MOUNT LAVATORY. ELECTRONIC SENSOR, 0.5 GPM FAUCET. PROVIDE BRASSCRAFT ANGLE STOPS, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON.	YES
L-3	ADA WALL MOUNTED LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	AM. STANDARD 0356.421	T&S EC-3142-VF05	GRID STRAINER	21-1/4"x21-1/4"x6" DEEP WALL HUNG LAVATORY. ELECTRONIC SENSOR, 0.5 GPM FAUCET. PROVIDE ZURN Z1231EZ CONCEALED ARM CARRIER. PROVIDE BRASSCRAFT ANGLE STOPS, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON.	YES
S-1	ADA UNDERMOUNT SINK	1/2"	1/2"	1 1/2"	1 1/2"	AM. STANDARD 18SB6231800S	AM. STANDARD 7545.170	GRID STRAINER	23"x17"x6" DEEP RECTANGULAR UNDER-MOUNT SINK. 1.5 GPM, TWO LEVER, DECK MOUNTED FAUCET. PROVIDE BRASSCRAFT ANGLE STOPS, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON. INSTALL ACCORDING TO MANUFACTURERS ADA GUIDELINES.	YES
HS-1	HAND SINK	1/2"	1/2"	1 1/2"	1 1/2"	AM. STANDARD 9482.000	T&S EC-3142-VF05	GRID STRAINER	15"x12"x5" DEEP ROUND UNDER-MOUNT LAVATORY. ELECTRONIC SENSOR, 0.5 GPM FAUCET. PROVIDE BRASSCRAFT ANGLE STOPS, STAINLESS STEEL BRAIDED SUPPLY AND CHROME PLATED ESCUTCHEON.	
MS-1	MOP SINK BASIN	1/2"	1/2"	3"	1 1/2"	FIAT MSB2424	T&S BRASS B-0665-BSTR	--	VINYL BUMPER GUARDS, HOSE AND BRACKET, GRID DRAIN.	YES
EWC-1	ELECTRIC WATER COOLER	1/2"	1/2"	1-1/2"	1 1/2"	OASIS PGVFACSL	-- --	--	PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SINK, FAUCET AND ALL APPURTENANCES. ADA PER MANUFACTURER INSTALLATION REQUIREMENTS.	YES

NOTE:
1. MANUFACTURER AND MODEL NUMBER INTENDED FOR LEVEL OF QUALITY. SUBSTITUTIONS MAY BE SUBMITTED IF QUALITY MEETS THIS LEVEL.
2. FF&E TO PROVIDE ALL PLUMBING FIXTURES. CONTRACTOR SHALL INSTALL ALL FIXTURES AND PROVIDE ROUGH-IN AND CONNECTIONS AS REQUIRED.

TANK WATER HEATER SCHEDULE

MARK	LOCATION	MFGR	MODEL NUMBER	STORAGE CAPACITY	TOATAL KW	VOLT/ PHASE	RECOVERY IN GPH @ 90°F RISE	OUTLET TEMP. DEG. F	REMARKS	SUBMITTAL REQUIRED
EWH-1	FIRST FLOOR JANITOR CLOSET	A.O. SMITH	DVE-120	119	30	480/3	185°F	140°F	DUAL ELEMENT - NON SIMULTANEOUS	YES
EWH-2	FIRST FLOOR JANITOR CLOSET	A.O. SMITH	DVE-120	119	30	480/3	185°F	140°F	DUAL ELEMENT - NON SIMULTANEOUS	YES
EWH-3	SECOND FLOOR JANITOR CLOSET	A.O. SMITH	DEL-20	20	4.5	208/1	21°F	120°F	SINGLE ELEMENT	YES

INSTANTANEOUS WATER HEATER SCHEDULE

MARK	LOCATION	MFGR	MODEL NUMBER	TOATAL KW	VOLT/ PHASE	TEMP. RISE	REMARKS	SUBMITTAL REQUIRED
IWH-1	TEACHER'S ROOM SINK - 2ND FLOOR	STEIBEL ELTRON	MINI 6-2	4.3	208/1	28°F @ 1.5 GPM	INSTALL PER MANUFACTURERS INSTRUCTIONS	YES
IWH-2	TEACHER'S ROOM SINK - 1ST FLOOR	STEIBEL ELTRON	MINI 6-2	4.3	208/1	28°F @ 1.5 GPM	INSTALL PER MANUFACTURERS INSTRUCTIONS	YES

PLUMBING PIPING LEGEND

2" CW	DOMESTIC WATER (GENERIC)
2" HW	DOMESTIC HOT WATER
2" HWR	DOMESTIC HOT WATER RETURN
4" SAN	SANITARY WASTE LINE (UNDERGOUND)
4" SAN	SANITARY WASTE LINE (ABOVEGROUND)
2" V	SANITARY VENT LINE (ABOVEGROUND)
4" GW	GREASE WASTE LINE (UNDERGOUND)
4" GW	GREASE WASTE LINE (ABOVEGROUND)
1 1/2" SPD	ELEVATOR SUMP PUMP DRAIN LINE
	PIPE UP (MID AND END OF RUN)
	PIPE DOWN (MID AND END OF RUN)
	VALVE (HORZONTAL AND VERTICAL RUN)

PLUMBING GENERAL NOTES

1. NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT THE EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED. THE SEPARATE DIVISIONAL CONTRACT DOCUMENTS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DIVISIONAL CONTRACT DOCUMENTS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL DOCUMENTS AND TRADES TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS BID AND INSTALLED.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED TO COMMENCE AND COMPLETE PLUMBING WORK.
3. SUBMIT FULL SUBMITTALS OF ALL PLUMBING EQUIPMENT AND MATERIALS TO THE ENGINEER FOR REVIEW, WHETHER IT IS EXACTLY AS SPECIFIED OR NOT. WHERE ALTERNATE MANUFACTURERS ARE LISTED IN THE BOOK SPECIFICATIONS, ONE OF THOSE MANUFACTURERS SHALL BE PROVIDED UNLESS A REQUEST FOR SUBSTITUTION HAS BEEN SUBMITTED PRIOR TO BID AND THE MANUFACTURER SUBSEQUENTLY IS LISTED AS AN ACCEPTABLE MANUFACTURER IN AN ADDENDUM. FOR ALL EQUIPMENT WHICH HAS BEEN SCHEDULED DIRECTLY ON THE DESIGN DRAWINGS, PROVIDE WITHIN THE SUBMITTAL A PERFORMANCE SCHEDULE FOR THE PROPOSED EQUIPMENT IN THE SAME FORMAT AS INCLUDED ON THE DRAWINGS. FAILURE TO PROVIDE REQUIRED PERFORMANCE SCHEDULE WILL RESULT IN REJECTION OF THE ENTIRE SUBMITTAL.
4. THE CONTRACT DOCUMENTS AND SUBMITTALS OF ALL TRADES SHALL BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION AND INSTALLATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.
5. PLUMBING DRAWINGS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE PLUMBING SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SUBMITTALS, AND SIMILAR CERTIFIED DATA.
6. PLUMBING DRAWINGS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE PLUMBING SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SUBMITTALS, AND SIMILAR CERTIFIED DATA.
7. ALL PLUMBING EQUIPMENT INSTALLED OUTDOORS SHALL BE SECURED TO ITS SUPPORT AS DETAILED BY THE STRUCTURAL ENGINEER FOR THE REQUIRED WIND LOAD DESIGN.
8. ALL EXTERIOR EXPOSED MATERIALS SHALL BE CONSTRUCTED OF NON-FERROUS MATERIALS AND BE PAINTED WITH TWO COATS OF RUST INHIBITOR PAINT.
9. INSTALL AND TEST ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN ADEQUATE SERVICE SPACE AS REQUIRED. SERVICE SPACE SHALL BE CLEAR OF DUCTS, PIPES, CONDUITS, WALL STUDS, CEILING HANGERS, AND ANY OTHER CONSTRUCTION APPURTENANCE.
10. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL CEILING/FLOOR/WALL ACCESS PANELS THAT MAY BE REQUIRED FOR THE INSTALLATION, INSPECTION, AND SERVICE OF PLUMBING EQUIPMENT WHETHER OR NOT IT IS SHOWN. ACCESS PANELS TO BE SELECTED BY THE ARCHITECT.
11. ALL PLUMBING EQUIPMENT SHALL BE LABELED WITH ENGRAVED, LAMINATED, PLASTIC SIGNS. SIGNS SHALL BE 1/8" THICK AND A MINIMUM OF 1-3/4" HIGH WITH 1" HIGH LETTERS. LENGTH OF THE SIGN SHALL BE THE SUM OF THE LETTERS/NUMBERS PLUS 3/4" ON EACH END. EXTERIOR SIGNS SHALL BE UV RATED, DESIGNATED AND MANUFACTURED TO BE EXPOSED TO THE ELEMENTS.
12. AT PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 80 HOURS OF TRAINING ON THE OPERATION AND MAINTENANCE OF THE PLUMBING EQUIPMENT.
13. CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON PARTS AND LABOR FROM THE DATE OF SUBSTANTIAL COMPLETION.
14. FOR SEALING OF PIPE PENETRATION THROUGH FIRE RATED WALLS, REFER TO ARCHITECTURAL CONTRACT DOCUMENTS. ALL RATED WALL PENETRATIONS SHALL BE SEALED USING APPROVED UL DETAILS.
15. PROVIDE ADDITIONAL PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF FIRE RATED WALLS. PIPING SHALL NOT BE SUPPORTED FROM ANY FIRE RATED WALL.
16. ALL PIPING MUST BE INSTALLED 6" AWAY FROM ANY FIRE RATED WALL.
17. ALL RATED WALL PENETRATIONS SHALL BE MADE AT A 90° ANGLE.
18. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPING MATERIALS SHALL BE OF APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION. PROVIDE PIPE SADDLES BELOW INSULATED PIPES.
19. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
20. RIGID SUPPORT SWAY BRACING SHALL BE PROVIDED AT CHANGES IN DIRECTION GREATER THAN 45° FOR PIPE SIZES 4" AND LARGER.
21. ANCHORAGE SHALL BE PROVIDED TO RESTRAIN DRAINAGE PIPING FROM AXIAL MOVEMENT. FOR PIPE SIZES GREATER THAN 4", RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER SUITABLE METHODS AS SPECIFIED BY THE COUPLING MANUFACTURER SHALL BE UTILIZED.
22. PROVIDE ALL OFFSETS AND FITTINGS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. MAKE CONNECTION TO SITE UTILITIES. COORDINATE WITH SITE UTILITY CONTRACTOR AS REQUIRED.
23. CONCEAL PIPING ABOVE CEILING, WITHIN WALL OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
24. PROVIDE AN AIR GAP WHEN WASTE CONNECTION IS REQUIRED TO BE INDIRECT, SERVICING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
25. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED. IF PIPING IS NOT AVAILABLE CHROME PLATED, PIPING SHALL BE PAINTED WITH CHROME COLORED PAINT.
26. PROVIDE CLEANOUTS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - PLUMBING. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE. WHEN OUTDOORS, PROVIDE CONCRETE ADJACENT TO CLEANOUT AS SHOWN ON THE DETAIL ON THE DRAWINGS. PROVIDE CLEANOUTS IN VERTICAL RISERS A MINIMUM OF EVERY THREE FLOORS.
27. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL DEVICES. PROVIDE INSULATED DRAIN PAN UNDER PIPING WHERE ABSOLUTELY NOT POSSIBLE TO AVOID.
28. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIERS DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF FIXTURE. ALL WALL HUNG WATER CLOSET BOWLS SHALL BE SUPPORTED BY A CONCEALED METAL CARRIER THAT IS ATTACHED TO THE BUILDING STRUCTURAL MEMBERS. THE CARRIER SHALL CONFORM TO ASME A112.6.1M OR ASME 112.6.2.A. WALL HUNG WATER CLOSET MUST BE CAPABLE OF SUPPORTING A LOAD OF 500 POUNDS AT THE END OF THE WATER CLOSET. ALL WALL HUNG URINALS SHALL BE SUPPORTED BY A CONCEALED METAL CARRIER THAT TRANSFERS THE WEIGHT OF THE URINAL TO THE FLOOR.
29. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY TO USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
30. SECURE THE BASE OF ALL WATER COOLERS TO THE WALL. CAULK ALONG TOP OF WATER COOLER TO WALL.
31. FOLLOW ADA GUIDELINES FOR ACCESSIBILITY TO PLACES OF PUBLIC ACCOMMODATION AND COMMERCIAL FACILITIES BY INDIVIDUALS WITH DISABILITIES. THESE GUIDELINES ARE TO BE APPLIED DURING DESIGN, CONSTRUCTION AND ALTERATION OF SUCH BUILDING AND FACILITIES TO THE EXTENT REQUIRED BY REGULATIONS ISSUED BY FEDERAL AGENCIES, INCLUDING THE DEPARTMENT OF JUSTICE, UNDER THE AMERICANS WITH DISABILITIES ACT (ADA), LATEST EDITION.
32. THE LOCATIONS OF ALL CLEANOUTS, VALVES, GAUGES, ETC. SHALL BE LOCATED FOR ACCESS AND/OR SERVICE IN REFERENCE TO THE FINISHED BUILDING. WALL CLEANOUT SHALL BE 18" A.F.F. AND FLOOR CLEANOUTS SHALL BE LOCATED WITHIN 12" OF AN ADJACENT WALL.
33. WHERE PLUMBING SERVICES ARE REQUIRED FOR EQUIPMENT FURNISHED UNDER OTHER TRADES OR PROVIDED BY THE OWNER (OFCI), THE CONTRACTOR SHALL DETERMINE ACCURATE ROUGHING REQUIREMENTS IN ADVANCE OF WORK, SET EQUIPMENT IN PLACE AND MAKE NECESSARY SERVICE CONNECTIONS. PROVIDE ACCESSORIES AS REQUIRED.
34. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND ROUGHING DIMENSIONS OF ALL PLUMBING FIXTURES, DRAINS, ETC.
35. ALL FLOOR DRAINS SHALL BE SERVED BY AN APPROVED GRAVITY TYPE TRAP PRIMER.
36. PROVIDE 1/2" TYPE K SOFT COPPER SUPPLY LINE FROM TRAP PRIMER TO FLOOR DRAIN. PROVIDE CORROSION PROTECTION WHERE UNDERGROUND.
37. ALL HOSE BIBBS, WALL HYDRANTS AND HOSE END CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED INTEGRAL VACUUM BREAKER AND SHUT OFF VALVE LOCATED ABOVE THE CEILING. UNLESS OTHERWISE NOTED, ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE INSTALLED 24" ABOVE FINISHED FLOOR OR GRADE.
38. DIELECTRIC UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS (SUCH AS COPPER TO GALVANIZED
39. ALL VENT PENETRATIONS THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES, DOORS, WINDOWS AND OTHER BUILDING OPENINGS. WHERE POSSIBLE, EXTEND VENT PIPE TO THE BACK SIDE OF BUILDINGS WITH SLOPED ROOFS.
40. VERIFY SIZES, LOCATION, INVERTS AND ELEVATIONS PRIOR TO INSTALLING ANY PIPING.
41. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND FURNISH EQUIPMENT WIRED FOR THE VOLTAGE SHOWN HEREIN. PROVIDE STATEMENT INDICATING THIS HAS OCCURRED WITH THE SHOP DRAWING SUBMITTALS.
42. SLOPE ALL STORM AND SANITARY PIPING 8" AND LARGER AT A MINIMUM SLOPE OF 1/16" PER FOOT. SLOPE ALL SANITARY PIPING 3" TO 6" AT A MINIMUM SLOPE OF 1/8" PER FOOT. ALL SANITARY PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT.
43. ALL EXPOSED PIPING UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED WITH PROTECTIVE UNDER-SINK PIPE COVERS AND PLUMBING ENCLOSURES AS MANUFACTURED BY TRUEBRO.
44. ALL SANITARY, VENT AND WATER PIPING SHALL BE TESTED BEFORE BEING CONCEALED IN ANY WAY. ALL JOINTS SHALL BE MADE DRIP TIGHT BEFORE BEING CONCEALED. DOMESTIC WATER PIPING SHALL BE TESTED AT 1-1/2 TIMES OPERATING PRESSURE OR 100 PSI, WHICHEVER IS GREATER.
45. DISINFECT POTABLE WATER SYSTEM PER THE FLORIDA BUILDING CODE. PROVIDE DOCUMENTATION IN THE CLOSE OUT DOCUMENTS.
46. PROVIDE PVC SLEEVE WITH LONG RADIUS ELBOWS FOR DOMESTIC COLD WATER PIPING ROUTED UNDER BUILDING'S FIRST FLOOR SLAB.
47. PROVIDE ALUMINUM JACKET ON PIPING INSULATION EXPOSED TO EXTERIOR AND PIPING INSIDE MEP ROOMS BELOW 7'0" AFF.
48. PROVIDE SUPPLY LINE. 1/2" ANGLE STOP VALVE, WALL FLANGE, CHROME PLATED AND BRAIDED STAINLESS STEEL TOILET & LAVATORIES.
49. LAVATORIES & SINK TRAPS: PROVIDE 17 GUAGE, CHROME PLATED BRASS WITH WALL FLANGE AND NO CLEANOUT.
50. ALL EXTERIOR EXPOSED PIPING HANGERS TO BE STAINLESS STEEL.

PLUMBING PIPE ANDACCESSORIES SPECIFICATIONS

A. ABOVEGROUND SANITARY, VENT, AND STORM WATER PIPING 2" AND LARGER SHALL BE SOLID CORE PVC TYPE DWV AND SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: ASTM D 2665, ASTM D 2949 OR CSA B181.2. FITTINGS SHALL BE PVC AND SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: ASTM D 2665, ASTM D 3311 OR ASTM F 1866. JOINTS SHALL BE SOLVENT CEMENTING. A PURPLE PRIMER THAT CONFORMS TO ASTM F 656 SHALL BE APPLIED TO JOINT SURFACES (CLEAN AND FREE FROM MOISTURE). SOLVENT CEMENT NOT PURPLE IN COLOR AND CONFORMING TO ASTM D 2564, CSA B137.3, CSA B181.2 OR CSA B182.1 SHALL BE APPLIED TO ALL JOINT SURFACES. JOINTS SHALL BE IN ACCORDANCE WITH ASTM D 2855. WRAP ALL VERTICAL PIPING WITH 2" FIBERGLASS INSULATION TO REDUCE NOISE.

B. UNDERGROUND SANITARY, VENT, AND STORM WATER PIPING SHALL BE SOLID CORE PVC TYPE DWV AND SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: ASTM D 2665, ASTM D 2949 OR CSA B181.2. FITTINGS SHALL BE PVC AND SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: ASTM D 2665, ASTM D 3311 OR ASTM F 1866. JOINTS SHALL BE SOLVENT CEMENTING. A PURPLE PRIMER THAT CONFORMS TO ASTM F 656 SHALL BE APPLIED TO JOINT SURFACES (CLEAN AND FREE FROM MOISTURE). SOLVENT CEMENT NOT PURPLE IN COLOR AND CONFORMING TO ASTM D 2564, CSA B137.3, CSA B181.2 OR CSA B182.1 SHALL BE APPLIED TO ALL JOINT SURFACES. JOINTS SHALL BE IN ACCORDANCE WITH ASTM D 2855.

C. INSULATE ALL VERTICAL AND HORIZONTAL STORM WATER PIPING WITH FLEXIBLE ELASTOMERIC THERMAL INSULATION "PIPE, 1" FOR 1" PIPE, 2.5" FOR LARGER THAN 1-1/2" PIPE.

D. COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING:
* PIPING 21/2" AND LARGER: CORZAN SCHEDULE 80 (IPS) PIPE AND FITTINGS MEETING ASTM F441 AND NSF/ANSI STANDARDS 14 AND 61. MATERIAL SHALL MEET CELL CLASS 23447 PER ASTM D1784. SOLVENT JOINTS SHALL BE PER ASTM D2855
* PIPING WITHIN 10'-0" OF WATER HEATERS SHALL BE SCHEDULE 80 CORZAN PIPE AND FITTINGS MEETING ASTM F441 AND NSF/ANSI STANDARDS 14 AND 61. MATERIAL SHALL MEET CELL CLASS 23447 PER ASTM D1784. SOLVENT JOINTS SHALL BE PER ASTM D2855
* BELOW GRADE SHALL BE TYPE "K" SOFT COPPER PIPING. ALL FITTINGS SHALL BE INSTALLED ABOVE GRADE. CONTRACTOR MAY SUBSTITUTE COPPER WITH TYPE A PEX AND INCREASE ONE PIPE SIZE. FITTINGS SHALL NOT BE INSTALLED BELOW GRADE.
* PIPING UP TO 2" SHALL BE CPVC FLOWGUARD GOLD SCHEDULE 40 MEETING CELL CLASS 24448 PER ASTM D1784. PIPE AND FITTINGS SHALL MEET ASTM D2846 AND NSF/ANSI 14 AND 61. SOLVENT JOINT CEMENT SHALL CONFORM TO ASTM F493.

E. PROPRESS OR PEX TYPE WATER PIPING IS NOT ACCEPTABLE TO BE INSTALLED ON PROJECT WITH EXCEPTION TO SPECIFIC EXCLUSIONS.

F. INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING WITH 1-1/2" FIBERGLASS WITH "ASJ" VAPOR BARRIER JACKET AND 25/50 FIRE/SMOKE RATING. PROVIDE ALUMINUM JACKET ON ALL EXTERIOR INSULATION.

G. CONDENSATE PIPING SHALL BE SEAMLESS TYPE "L" HARD COPPER TUBE AND SHALL CONFORM TO NSF 61 AND ASTM B 75, ASTM B 88, ASTM B 251 OR ASTM B 447. FITTINGS SHALL BE COPPER OR COPPER ALLOY AND SHALL CONFORM TO NSF 61 AND ASME B16.15, ASME B16.18, ASME B16.22, ASME B16.23, ASME B16.26 OR ASME B16.29. SOLDERED JOINTS SHALL BE MADE IN ACCORDANCE WITH THE METHODS OF ASTM B828. THE JOINING OF WATER SUPPLY SHALL BE 95/5 LEAD FREE SOLDER AND THE SOLDER SHALL CONFORM TO ASTM B 32.

H. ALL CONDENSATE PIPING SHALL BE INSULATED WITH 3/4" THICK SEAMLESS CLOSED CELL RUBBER PIPE INSULATION. INSULATION EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE UV RESISTANT.

J. PROVIDE VALVES WHERE INDICATED ON PLAN AND NECESSARY FOR PROPER SYSTEM OPERATION, COMPONENT ISOLATION AND CODE REQUIUREMENTS. PROVIDE VALVES RATED FOR 125 PSI OR GREATER WORKING PRESSURE IN WATER PIPING. PROVIDE FULL PORT BALL VALVES OR BUTTERFLY VALVES. BALL VALVES: NIBCO S-585-70; CHECK VALVES: NIBCO S-413; DRAIN VALVES: NIBCO S-585-70-HC; BALANCING VALVES: NIBCO S-1710.

PLUMBING CODE CRITERIA

THE FOLLOWING IS A LIST OF ALL CODES ADOPTED DECEMBER 31, 2024 BY THE STATE FIRE MARSHALL'S RULE 69A3.012 F.A.C.:
* FLORIDA BUILDING CODE 8TH EDITION (2023)
* FLORIDA PLUMBING CODE 8TH EDITION (2023)
* FLORIDA FUEL GAS CODE 8TH EDITION (2023)
* FLORIDA ENERGY EFFICIENCY CODE 8TH EDITION (2023)
* FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023)
* NFPA 13, 2019 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

OTHER:
* AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE) STANDARDS
* LOCAL CODES AND ORDINANCES

ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	GPM	GALLONS PER MINUTE
AAV	AIR ADMITTANCE VALVE	HB	HOSE BIBB
ADA	AMERICANS WITH DISABILITIES ACT	HR	HOUR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HW	HOT WATER
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	I.E.	INVERT ELEVATION
CD	CONDENSATE DRAIN	MAX	MAXIMUM
CW	COLD WATER	MIN	MINIMUM
DCV	DOUBLE CHECK VALVE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
D.F.U.	DRAINAGE FIXTURE UNITS	NTS	NOT TO SCALE
DIA	DIAMETER	PDI	PLUMBING DRAINAGE INSTITUTE
DN	DOWN	PSIG	POUNDS PER SQUARE INCH
DWG	DRAWING	RM	ROOM
ECO	EXTERIOR CLEANOUT	SS	SANITARY SEWER
°F	DEGREES FAHRENHEIT	TYP	TYPICAL
FBC	FLORIDA BUILDING CODE	W/	WITH
FCO	FLOOR CLEANOUT	WCO	WALL CLEANOUT
FD	FLOOR DRAIN	V	VENT
GAL	GALLONS	VTR	VENT THRU ROOF

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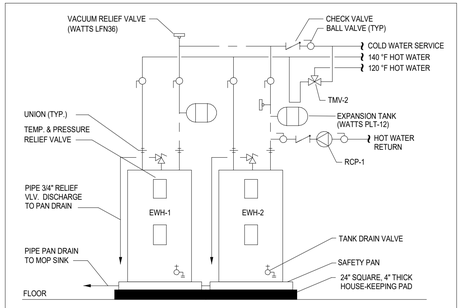
LAKEFRONT BOY'S SCHOOL
OKEECHOBEE, FL

DRAWING TITLE
PLUMBING SCHEDULES

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ENGINEER OF RECORD
KEITH M. PRZECLAWSKI, PE
PE #82393

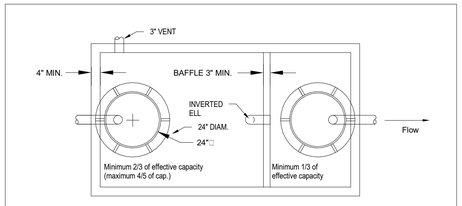
DATE: 03/05/2025
SCALE: As indicated
PROJ. NO. : 250265
DESIGNED BY: BJG
DRAWN BY: BJG
CHECKED BY: KMP
DRAWING NO.: P001



ELECTRIC WATER HEATER DETAIL

NTS

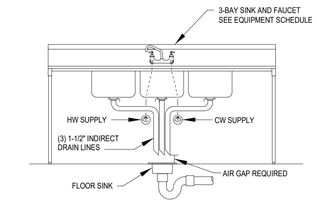
COMMENT: PROVIDE HOUSE KEEPING PAD



Notes:
1. Minimum tank volume is 750 gallons. Maximum tank volume is 1250 gallons.
2. Multiple units shall be linked in series.
3. Provide a minimum 8" freeboard above the liquid level.
4. Minimum effective depth of liquid compartments is 42".
5. Minimum pipe size is 4".
6. Use 4000 psi Portland Type II concrete with minimum 3/4 " cover on reinforcing steel.
7. Interceptor tank and manholes subject to traffic shall be designed for AASHTO H-20 loading.
8. Manhole covers shall be stamped "grease".
9. Provide 2" gap between baffle and tank top.
10. Only kitchen wastewater shall pass through a grease interceptor before discharge to sanitary sewer system.
11. Refer to chapter 64e-6.013(8) of the Florida Administrative Code.

GREASE TRAP DETAIL

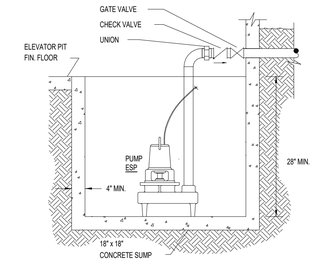
NTS



COMMENTS:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.

FOOD PREP - 3 BAY COMBINATION SINK DETAIL

NTS



SUMP PUMP (ESP-1) BASIS OF DESIGN:
LIBERTY PUMPS MODEL 280 SERIES, 1/2 HP, 115V VOLT/1 PHASE, 50 GPM @ 14 FT. HD., 1 1/2" DIA. DISCHARGE, 115 VOLT.

TRACTION ELEVATOR PIT SUMP PUMP DETAIL

NTS

GREASE TRAP WORKSHEET*

2013 FLORIDA ADMINISTRATIVE CODE - RULE 64E-6.013, (7), (d), 1.
RESTAURANTS

(S) x (GS) x (HR/12) x (LF) = EFFECTIVE CAPACITY OF GREASE INTERCEPTOR IN GALLONS.

(S) = NUMBER OF SEATS** = 443

(GS) = GALLONS OF WASTEWATER PER SET
(X) USE 25 GALLONS FOR ORDINARY RESTAURANT
(_) USE 10 GALLONS FOR SINGLE SERVICE ARTICLE RESTAURANTS

TOTAL GALLONS PER SEAT = 25

(HR/12) NUMBER OF HOURS ESTABLISHMENT IS OPEN = 3 /12 = 0.25

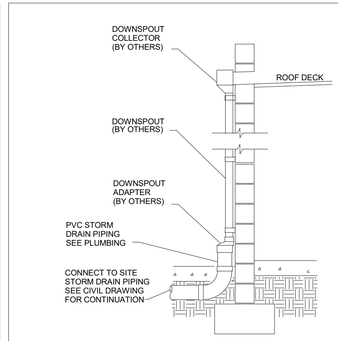
(LF) = LOADING FACTOR = 0.75
USE 2.0 INTERSTATE HIGHWAYS
USE 1.5 OTHER FREEWAYS
USE 1.25 RECREATIONAL AREAS
USE 1.0 MAIN HIGHWAYS
USE 0.75 OTHER ROADS

(443) X (25) X (25) X (0.75 = 2077 EFFECTIVE CAPACITY OF GREASE INTERCEPTOR IN GALLONS.

BUILDING REQUIRES (2) GREASE TRAPS WITH 1250 GALLON CAPACITY EACH FOR A TOTAL OF 2,500 GALLONS.

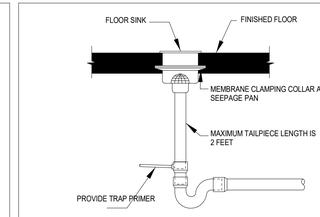
* VALUES USED ARE BASED FROM ARCHITECTURAL DRAWINGS AND TENANT REQUEST

** SEATING BASED ON HALF OF TOTAL SQ. FT. ASSUMED AS DINING AREA: FLORIDA BUILDING CODE, 2014 FOR "ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED": 6,645 SQ. FT. / 15 SQ. FT PER PERSON = 430 SEATS.



DOWNSPOUT DETAIL

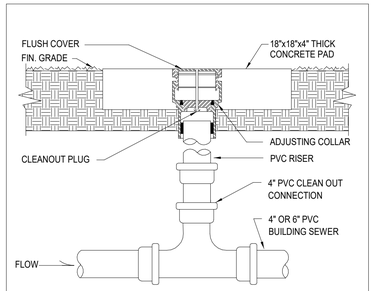
NTS



COMMENTS:
1. LOCATE FLOOR SINK WHERE SHOWN PLAN. IF SITUATION IS FLOOR SLAB ON GRADE, SET DRAIN BODY IN PLACE, PROVIDE BACKFILL, AND POUR AROUND IT. DO NOT RECESS FLOOR SINKS.
2. SEE PLUMBING FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL NUMBER.
3. ALL FLOOR SINK TRAPS SHALL HAVE TRAP PRIMERS. PROVIDE FLOOR DRAIN WITH TRAP PRIMER CONNECTION OR PRECISION PLUMBING PRODUCTS; ADAPTER FITTING MODEL PPA, SIZED TO MATCH DRAIN OUTLET.

FLOOR SINK DETAIL

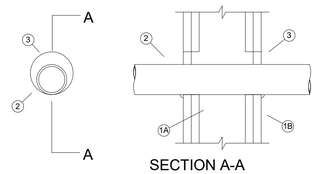
NTS



2-WAY EXTERIOR CLEANOUT DETAIL

NTS

SYSTEM NO. W-L-2241
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATINGS - 0, 1/4, 1 AND 1-3/4 HR (SEE ITEM 2)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



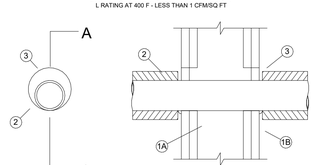
SECTION A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED MAX 16 IN. OC. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. DIAM OF OPENING TO BE 1 IN. TO 1-1/8 IN. LARGER THAN OUTSIDE DIAM OF PIPE. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. WHEN ITEM 2G OR 2H IS USED, THE HOURLY F RATING IS 1 HR.
2. THROUGH PENETRANT - ONE NONMETALLIC PIPE, CONDUIT OR TUBE TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES, CONDUITS AND TUBES MAY BE USED:
   A. POLYVINYL CHLORIDE (PVC) PIPE - NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN..
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN. DIAM (OR SMALLER) OR SCHEDULE 80 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN. (25 MM).
   F. POLYVINYL CHLORIDE (PVC) PIPE - NOM 3 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN.
   G. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 3 IN. DIAM (OR SMALLER) CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1 IN. WHEN ITEM 2A OR 2B IS USED, THE T RATING IS 1/4 HR. WHEN ITEM 2C, 2D, OR 2E IS USED, THE T RATING IS 1 HR AND 1-3/4 HR FOR 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY. WHEN ITEM 2F, 2G, OR 2H IS USED, T RATING IS 0 HR.
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY, AT POINT CONTACT LOCATION, MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT NONMETALLIC PIPE/GYPSUM BOARD INTERFACE ON BOTH SURFACES OF WALL. SPECIFIED TECHNOLOGIES INC - SPECSEAL LCI SEALANT OR TYPE WF300 FIRESTOP CAULK (FOR WOOD STUDS ONLY) * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

UNINSULATED NON METALLIC PIPE WALL PENETRATION FIRESTOP DETAIL

NTS

SYSTEM NO. W-L-2241
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATINGS - 0, 1/4, 1 AND 1-3/4 HR (SEE ITEM 2)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

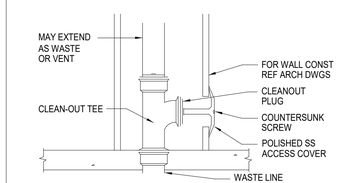


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   A. POLYVINYL CHLORIDE (PVC) PIPE - NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN. .
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN. DIAM (OR SMALLER) OR SCHEDULE 80 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN. (25 MM).
   F. POLYVINYL CHLORIDE (PVC) PIPE - NOM 3 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN.
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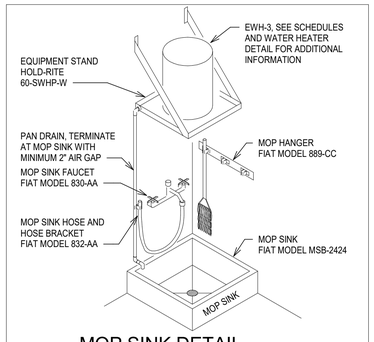
INSULATED NON METALLIC PIPE WALL PENETRATION FIRESTOP DETAIL

NTS



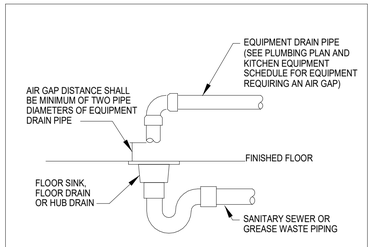
WALL CLEANOUT DETAIL

NTS



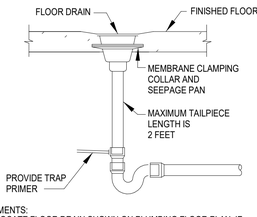
MOP SINK DETAIL

NTS



AIR GAP DETAIL

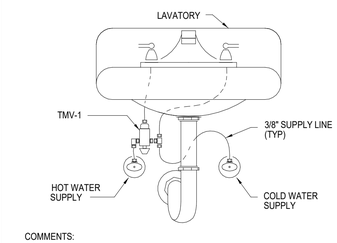
NTS



COMMENTS:
1. LOCATE FLOOR DRAIN SHOWN ON PLUMBING FLOOR PLAN. IF SITUATION IS FLOOR SLAB ON GRADE. SET DRAIN BODY IN PLACE. PROVIDE BACKFILL, AND POUR AROUND IT. RECESS TOP OF FLOOR DRAINS 1/2" BELOW FLOOR DATUM AND SLOPE FLOOR TO IT.
2. SEE PLUMBING FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL NUMBER.
3. ALL FLOOR DRAIN TRAPS SHALL HAVE TRAP PRIMERS. PROVIDE FLOOR DRAIN WITH TRAP PRIMER CONNECTION OR PRECISION PLUMBING PRODUCTS; ADAPTER FITTING MODEL PPA, SIZED TO MATCH DRAIN OUTLET.

FLOOR DRAIN DETAIL

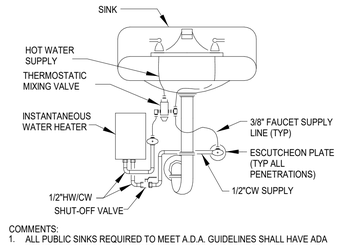
NTS



COMMENTS:
1. ALL PUBLIC LAVATORIES AND HAND SINKS REQUIRED TO MEET A.D.A. GUIDELINES SHALL HAVE ADA COMPLIANT UNDER-SINK PROTECTION. SUPPLY, WASTE AND VALVES MUST ALL BE COVERED.
2. ALL HAND SINKS AND LAVATORIES REQUIRE THERMOSTATIC MIXING VALVES SET TO 110°F.

THERMOSTATIC MIXING VALVE DETAIL

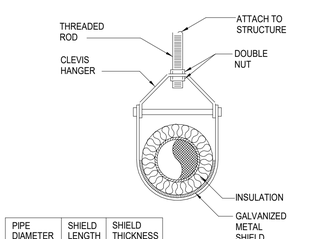
NTS



COMMENTS:
1. ALL PUBLIC SINKS REQUIRED TO MEET A.D.A. GUIDELINES SHALL HAVE ADA COMPLIANT UNDER-SINK PROTECTION. SUPPLY, WASTE, EQUIPMENT AND VALVES MUST ALL BE COVERED.
2. SET TEMPERATURE TO 120°F. ASSE 1070 COMPLIANT THERMOSTATIC CONTROL DEVICE REQUIRED.

INSTANTANEOUS WATER HEATER DETAIL

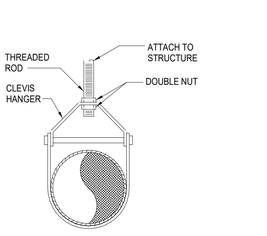
NTS (IWH-1)



PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS
UP TO 3"	12"	18 USSG
4" AND ABOVE	15"	16 USSG

INSULATED PIPE SUPPORT DETAIL

NTS



PIPE SUPPORT DETAIL

NTS

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LAKEFRONT BOY'S SCHOOL
OKEECHOBEE, FL

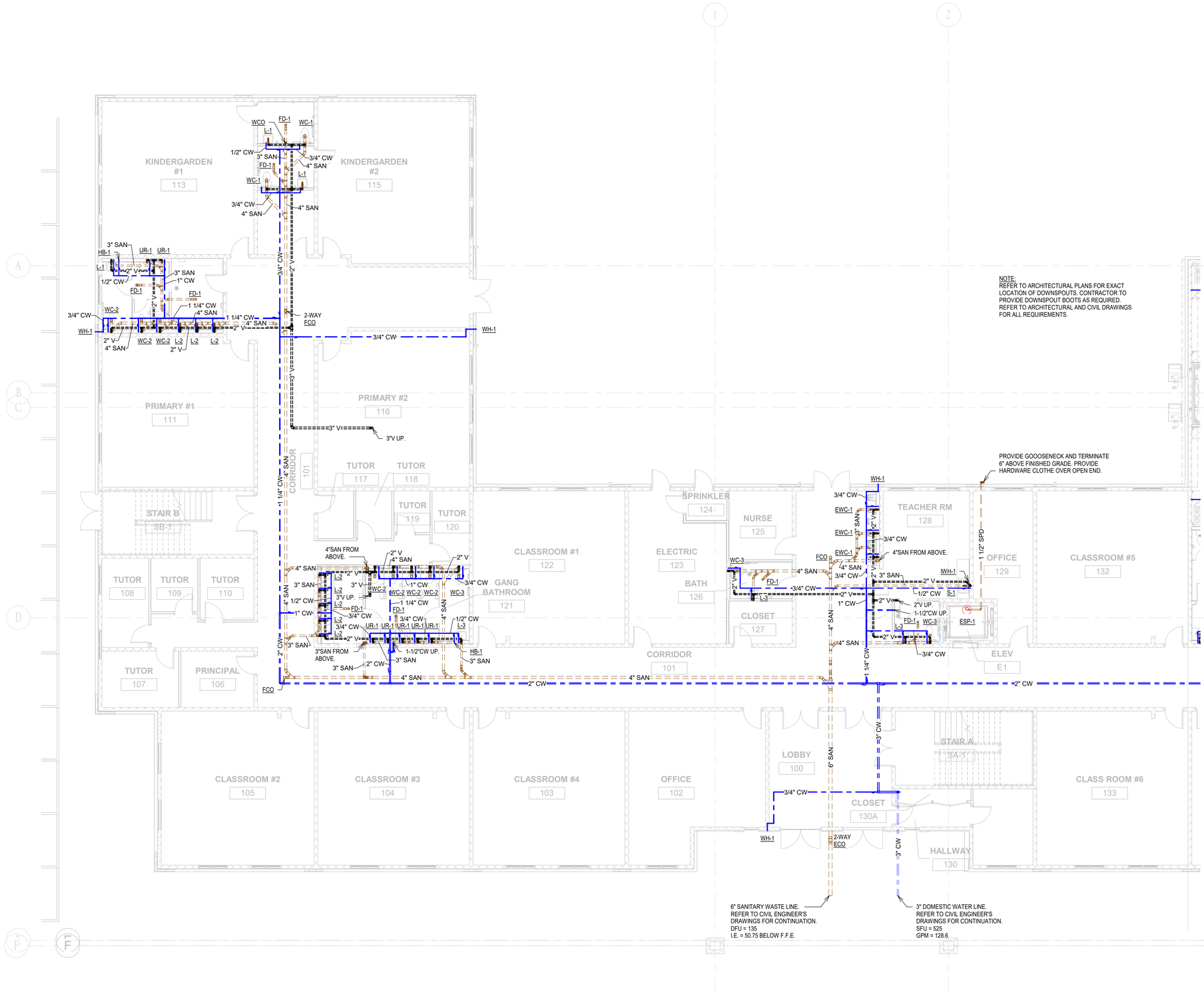
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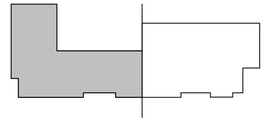
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PE #82393

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NOTE:
REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOWNSPOUTS. CONTRACTOR TO PROVIDE DOWNSPOUT BOOTS AS REQUIRED. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL REQUIREMENTS.



KEY PLAN

1 PLUMBING 1ST FLOOR PLAN-SIDE A
SCALE: 1/8" = 1'-0"

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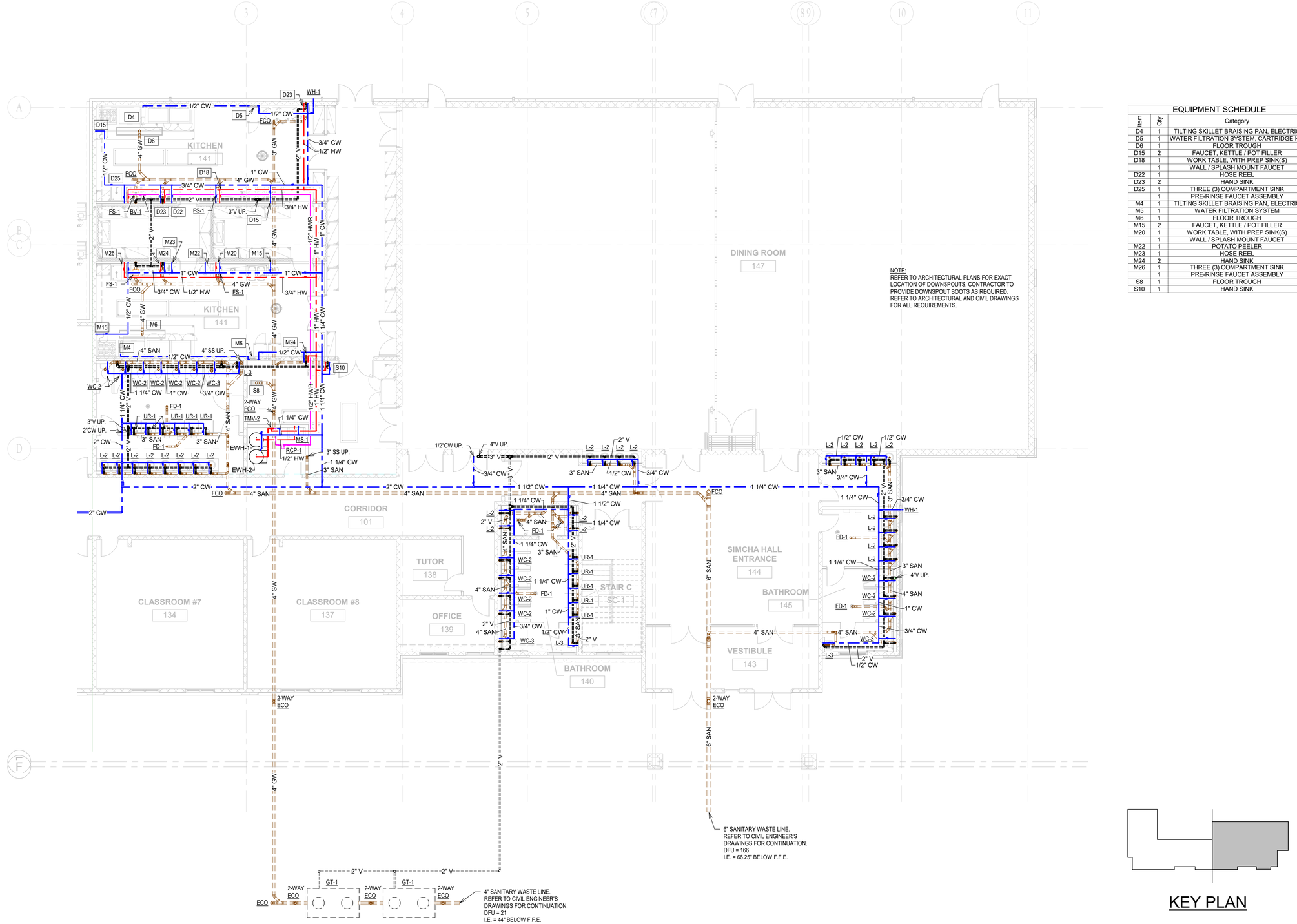
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PLUMBING 1ST FLOOR-SIDE A

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1 PLUMBING 1ST FLOOR PLAN-SIDE B
SCALE: 1/8" = 1'-0"

EQUIPMENT SCHEDULE		
Item	Qty	Category
D4	1	TILTING SKILLET BRAISING PAN, ELECTRIC
D5	1	WATER FILTRATION SYSTEM, CARTRIDGE KIT
D6	1	FLOOR TROUGH
D15	2	FAUCET, KETTLE / POT FILLER
D18	1	WORK TABLE, WITH PREP SINK(S)
	1	WALL / SPLASH MOUNT FAUCET
D22	1	HOSE REEL
D23	2	HAND SINK
D25	1	THREE (3) COMPARTMENT SINK
	1	PRE-RINSE FAUCET ASSEMBLY
M4	1	TILTING SKILLET BRAISING PAN, ELECTRIC
M5	1	WATER FILTRATION SYSTEM
M6	1	FLOOR TROUGH
M15	2	FAUCET, KETTLE / POT FILLER
M20	1	WORK TABLE, WITH PREP SINK(S)
	1	WALL / SPLASH MOUNT FAUCET
M22	1	POTATO PEELER
M23	1	HOSE REEL
M24	1	HAND SINK
M26	1	THREE (3) COMPARTMENT SINK
	1	PRE-RINSE FAUCET ASSEMBLY
S8	1	FLOOR TROUGH
S10	1	HAND SINK

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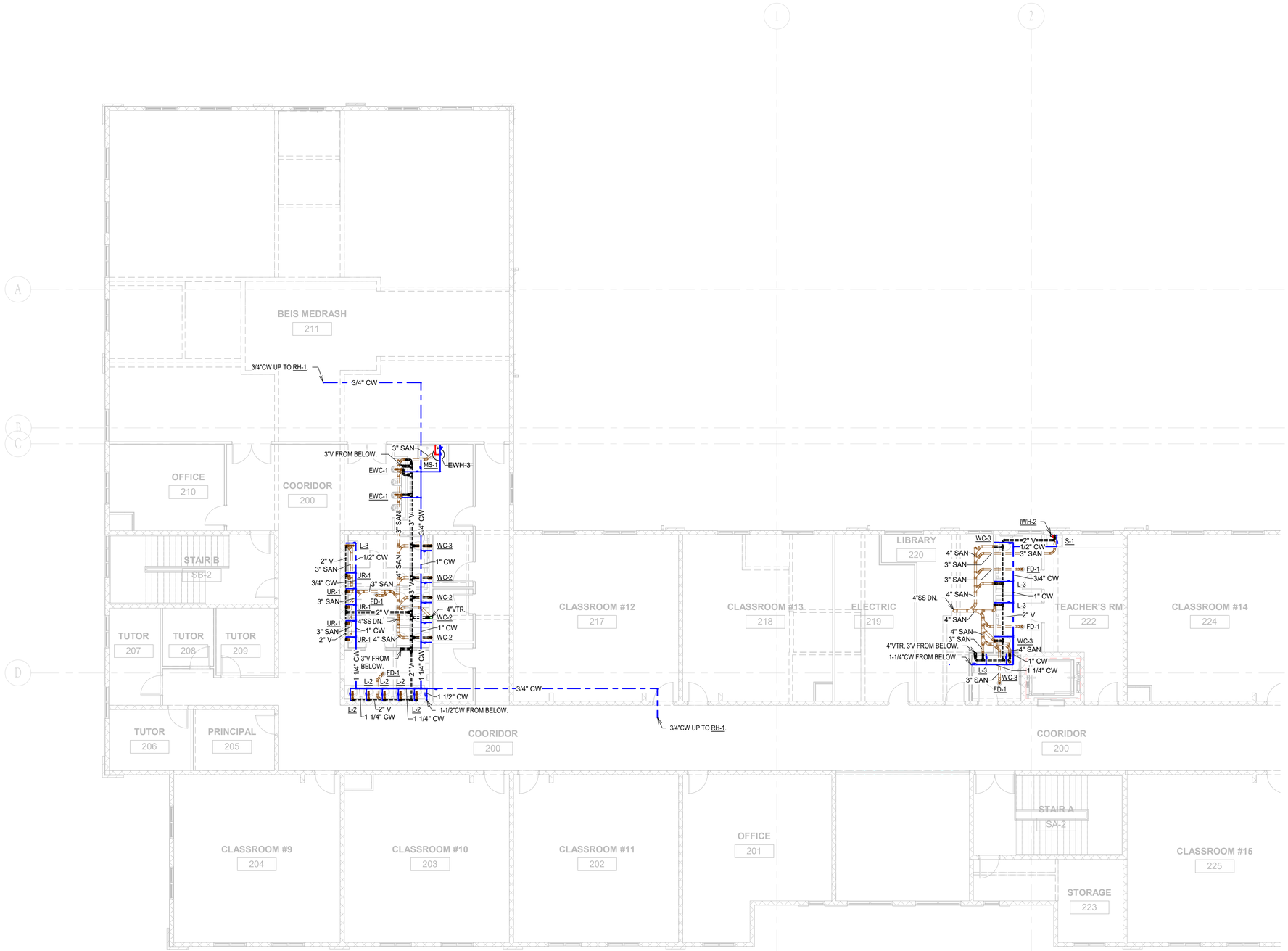
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PLUMBING 1ST FLOOR-SIDE B

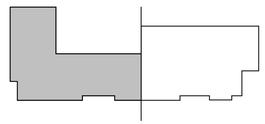
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1 PLUMBING 2ND FLOOR PLAN-SIDE A
SCALE: 1/8" = 1'-0"



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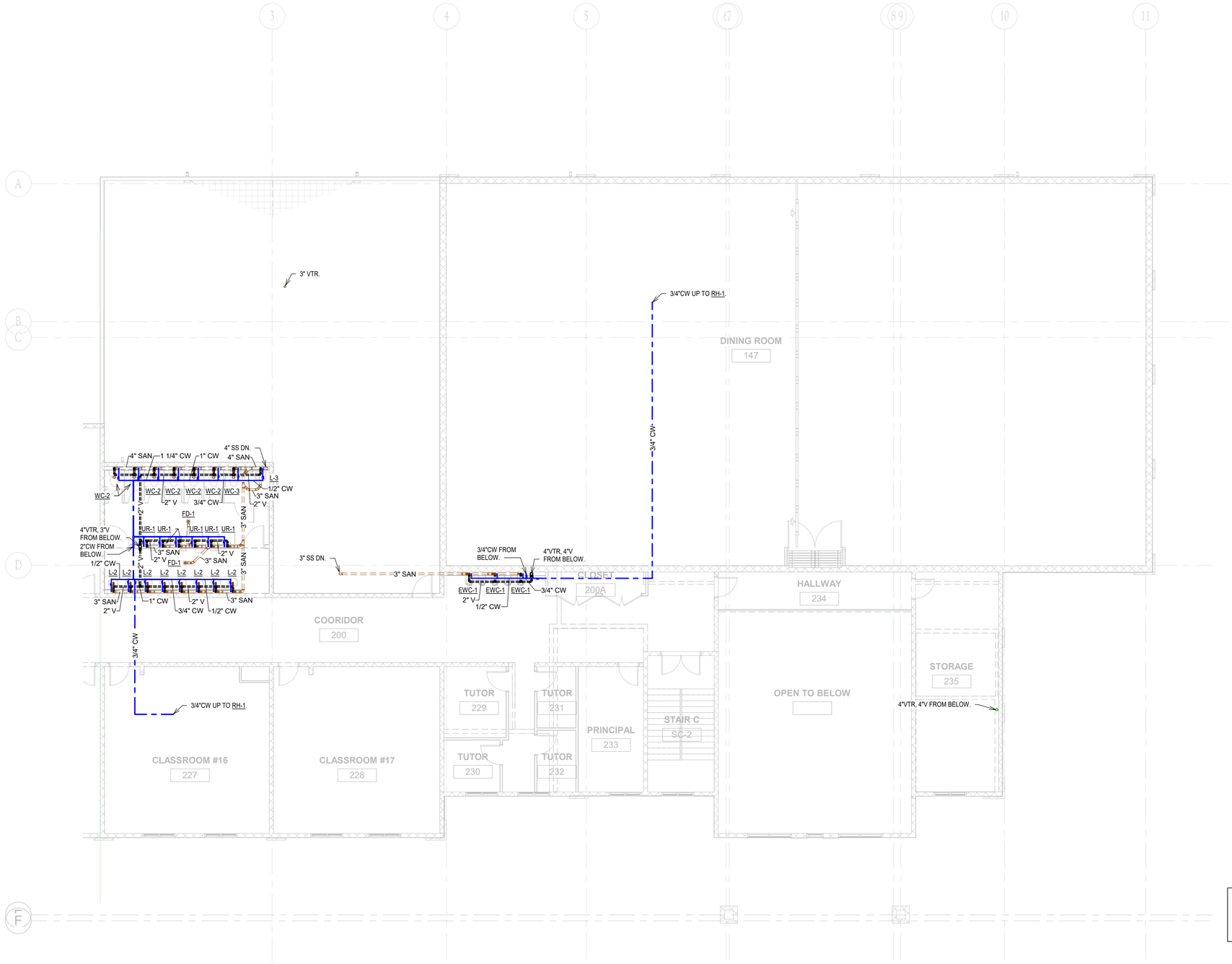
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PLUMBING 2ND FLOOR-SIDE A

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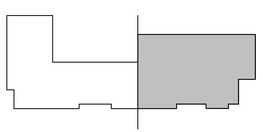
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1 PLUMBING 2ND FLOOR PLAN-SIDE B

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



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PLUMBING 2ND FLOOR-SIDE B

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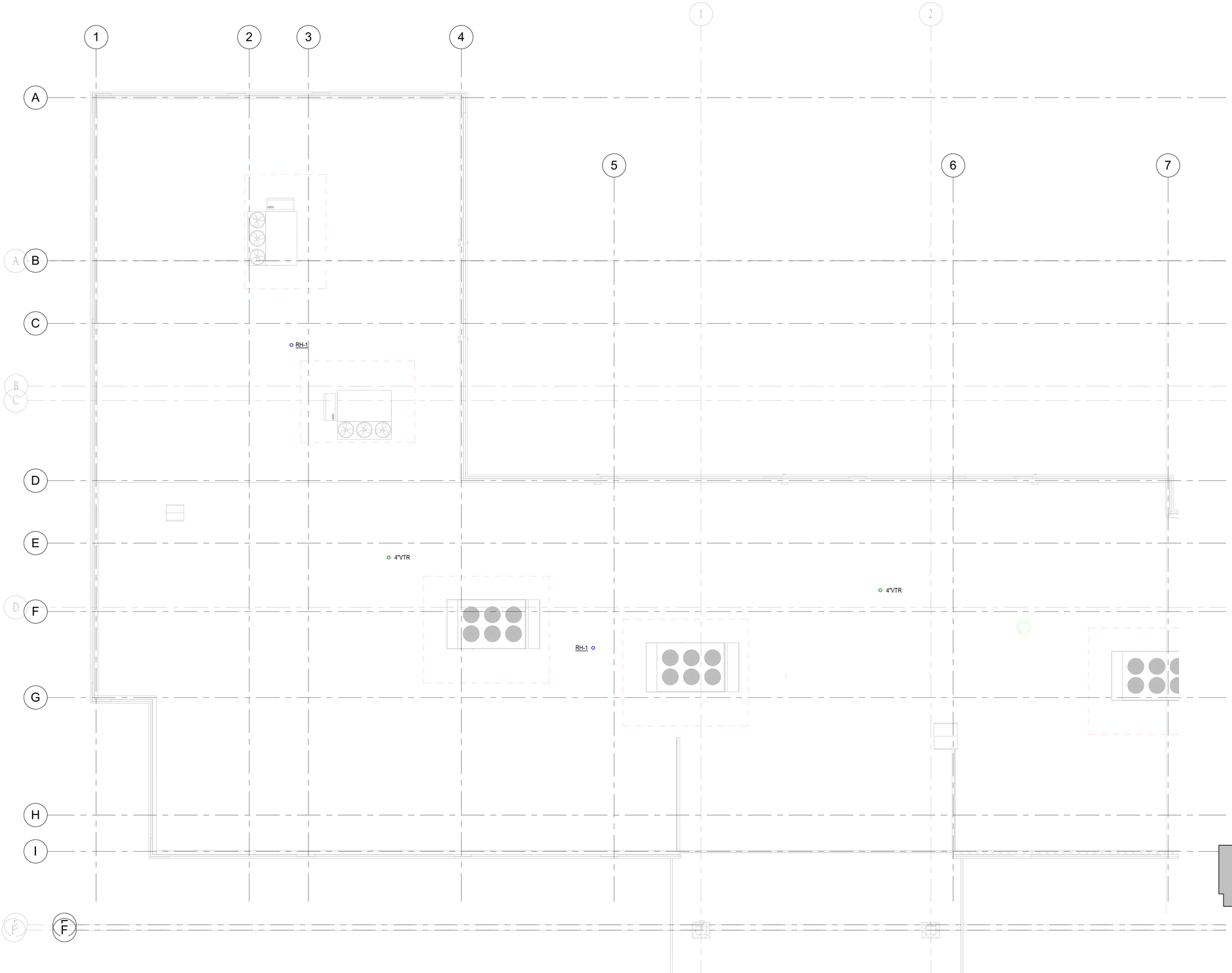
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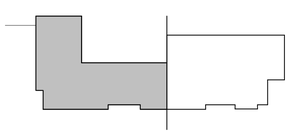
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1 PLUMBING ROOF PLAN-SIDE A
SCALE: 1/8" = 1'-0"



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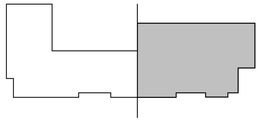
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1 PLUMBING ROOF PLAN-SIDE B
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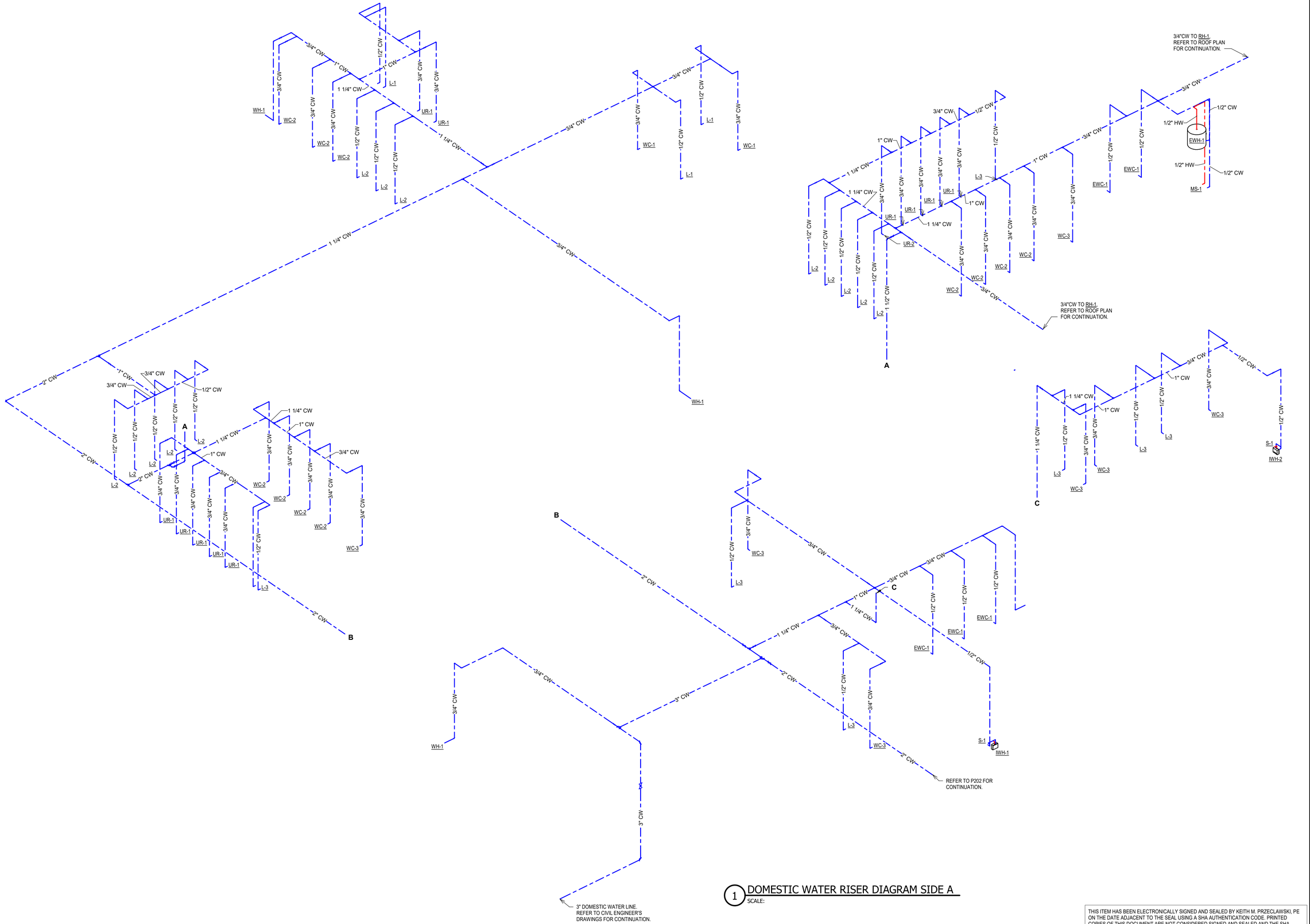
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1 DOMESTIC WATER RISER DIAGRAM SIDE A
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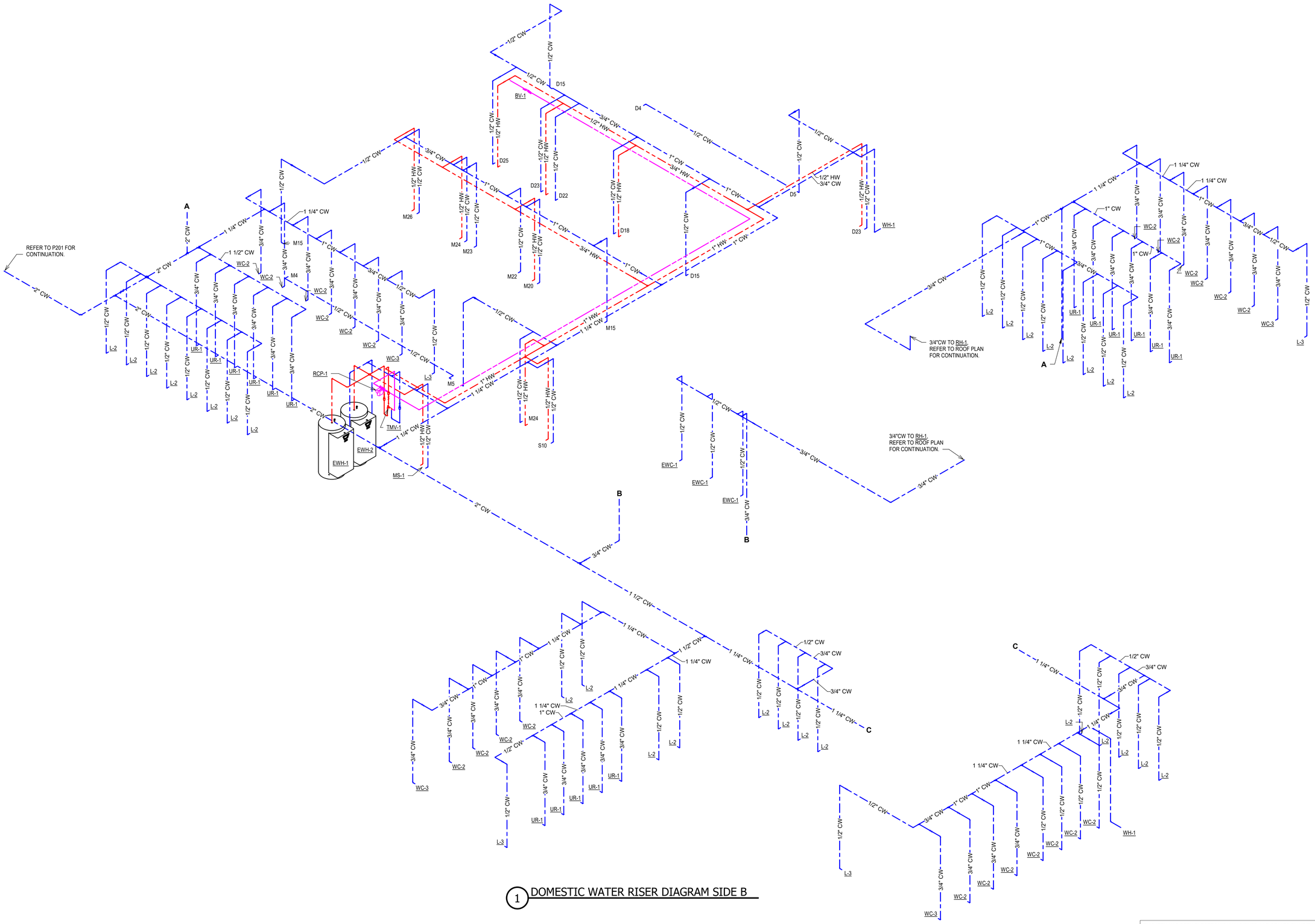
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1 DOMESTIC WATER RISER DIAGRAM SIDE B

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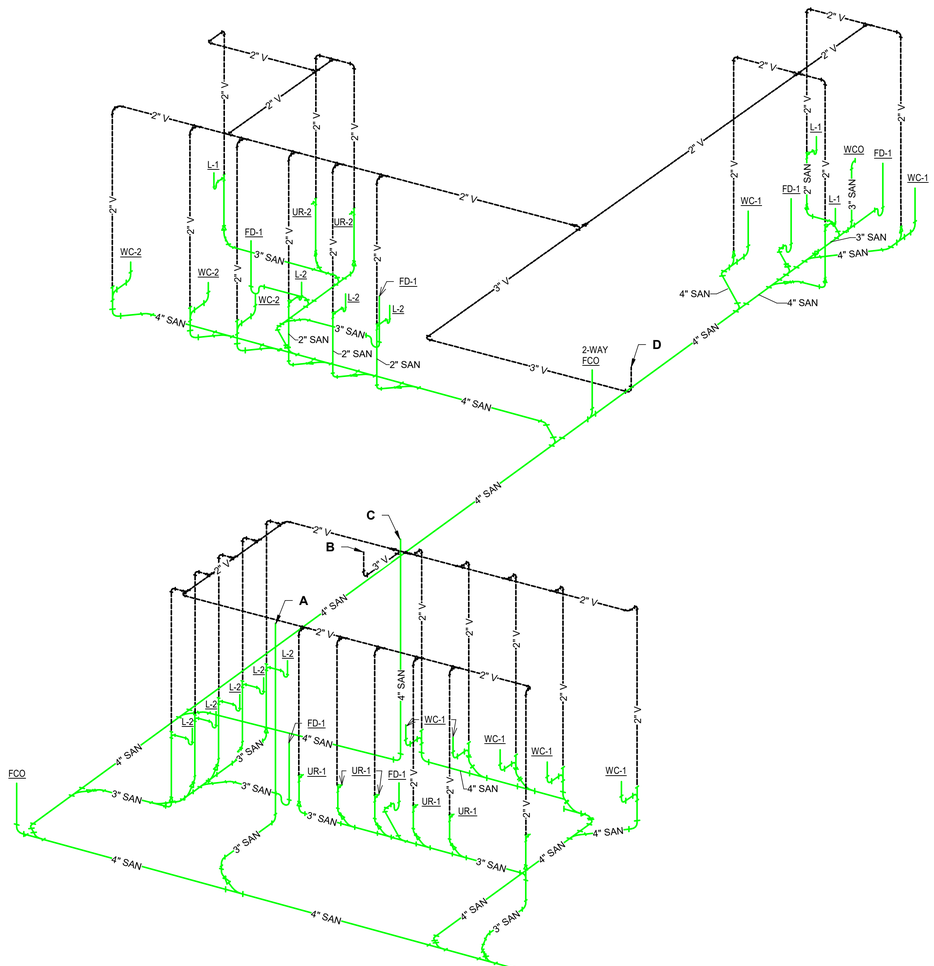
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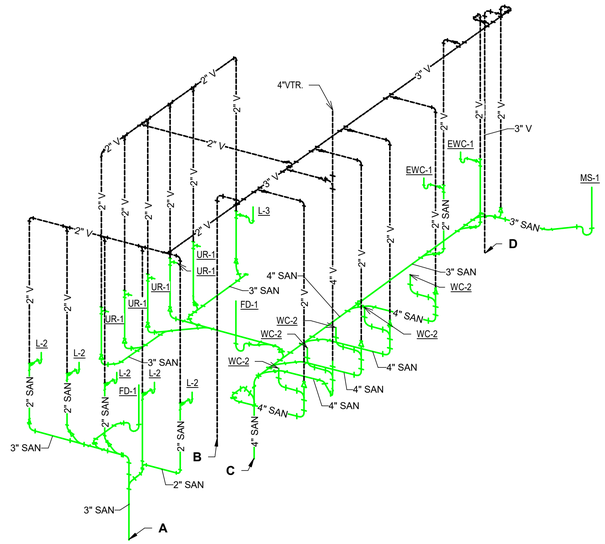
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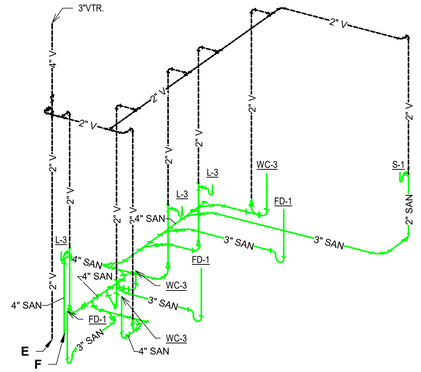
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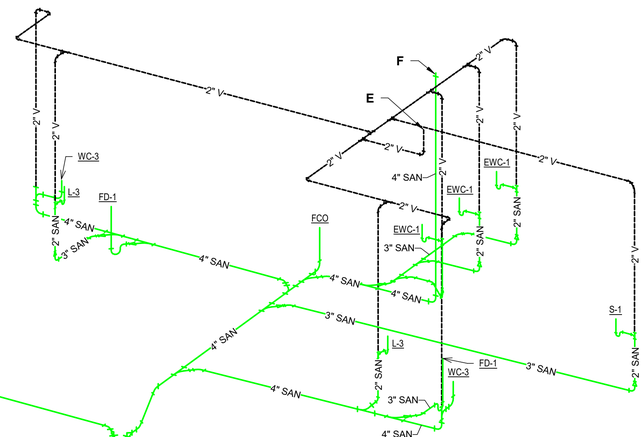
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1 SANITARY WASTE AND VENT RISER DIAGRAM - SIDE A
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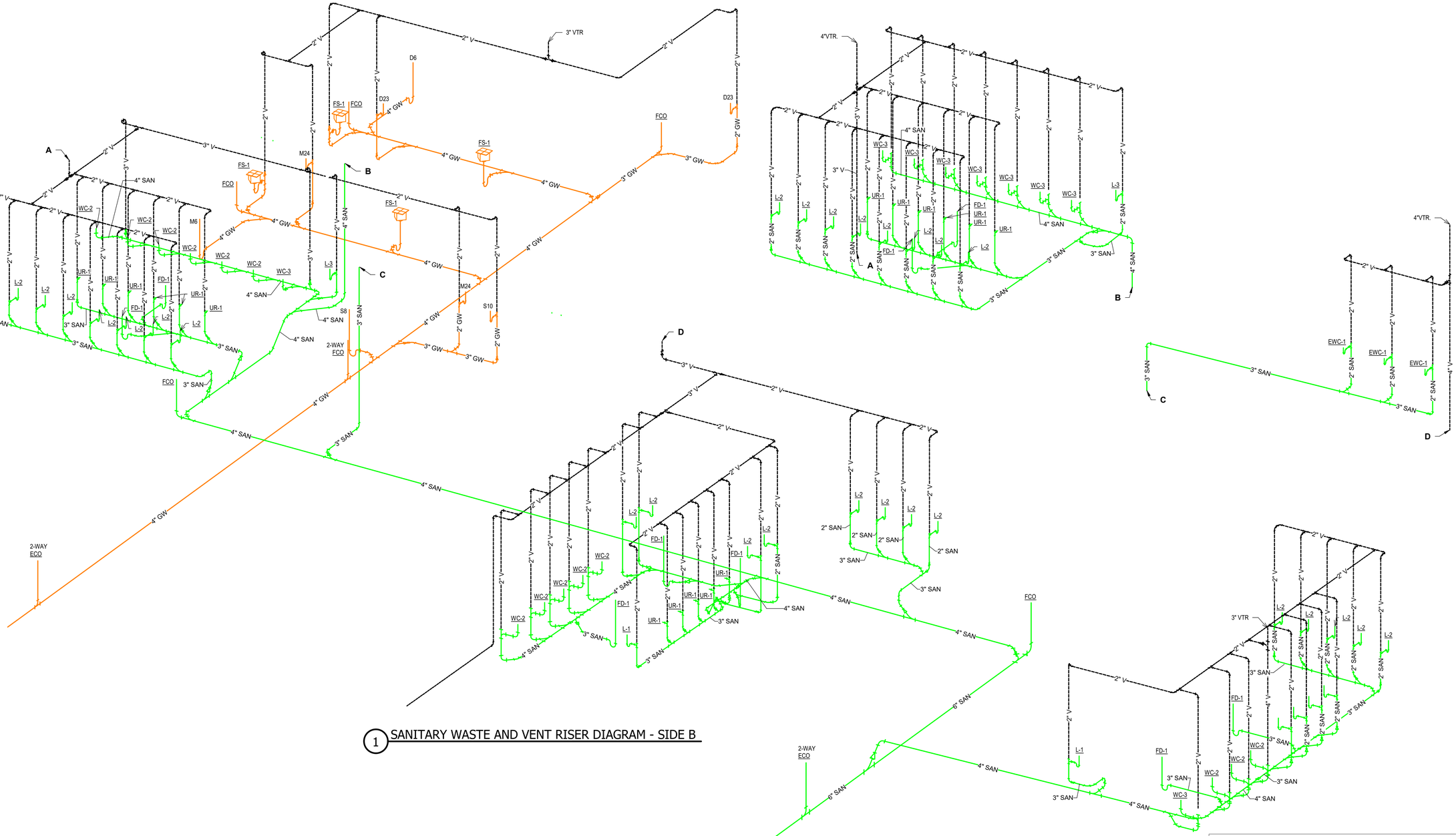
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