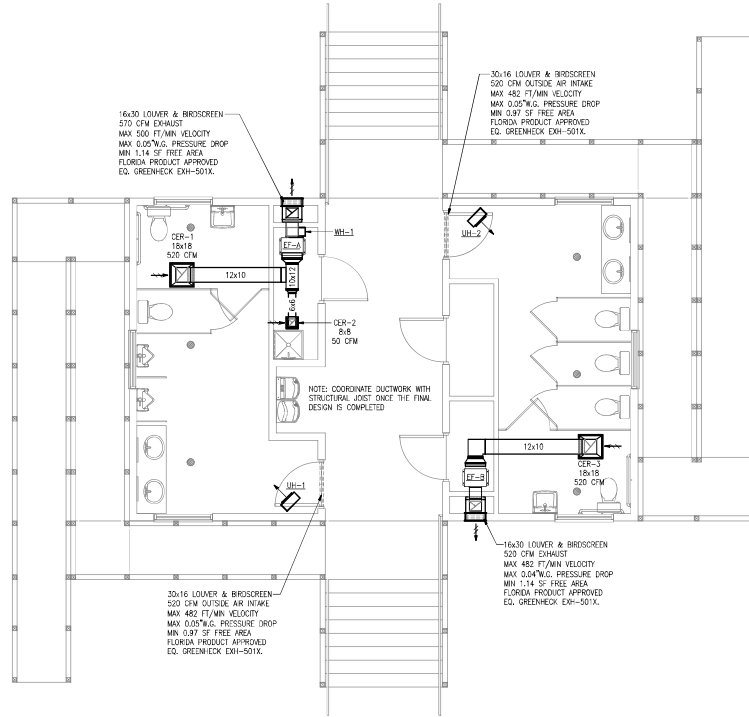


- GENERAL MECHANICAL NOTES
- FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL SYSTEM. DUE TO THE SCHEMATIC NATURE OF THESE PLANS, THE CONTRACTOR SHALL FIELD-VERIFY LOCATIONS FOR EQUIPMENT, DUCTWORK, AND ACCESSORIES. IN ADDITION, THIS WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. THE CONTRACTOR SHALL ALSO REVIEW THE STRUCTURAL DRAWINGS BEFORE FABRICATING AND INSTALLING DUCTWORK OR EQUIPMENT.
 - ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCED WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
 - ALL MATERIALS SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER ONES ACCEPTANCE OR SHOWN DEFECTUAL USE, WHICHEVER IS FIRST. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - DUCT SIZES ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DUCT SHALL BE OF LOW-PRESSURE (2.0" w.g.) CONSTRUCTION AS CLASSIFIED BY SMACNA UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL USE MINIMUM 2" EXTERNAL WRAP (MINIMUM R=6.0). DUCTBOARD SHALL NOT BE USED.
 - FLEXIBLE DUCT MAY BE INSTALLED ONLY WHERE SHOWN ON THE DRAWINGS. DUCT SHALL BE EXTERNALLY-INSULATED CORRUGATED METAL WITH A MAXIMUM LENGTH OF 6'-0". FOR TAKE-OFFS LONGER THAN 6'-0", THE REMAINDER OF THE DISTANCE SHALL BE EXTERNALLY-WRAPPED SINGLE-WALL ROUND DUCT WITH A 30-INCH STYLE TOP AT THE MAIN DUCT.
 - HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE BEAMS LESS THAN 4" THICK. ALL RETURN AND EXHAUST GRILLES SHALL HAVE OPPOSED-BLADE DAMPERS. ALL SUPPLY-SIDE TAKE-OFFS SHALL HAVE A BALANCING DAMPER.
 - FIRE DAMPERS AND FIRE-STOPPING SHALL BE PROVIDED FOR ANY PENETRATIONS OF FIRE-RATED PARTITIONS. VERIFY LOCATIONS OF ALL FIRE-STOPPING ON THE ARCHITECTURAL DRAWINGS.
 - ALL GRILLES AND REGISTERS SHALL BE EQUAL TO THUS WITH ALUMINUM CONSTRUCTION. SUPPLY GRILLES SHALL BE APPROVED BY THE OWNER AND THE ARCHITECT. SUPPLY REGISTERS SHALL BE EQUAL TO MODEL 300. RETURN EXHAUST AND TRANSFER GRILLES SHALL BE EQUAL TO MODEL 300 WITH OPPOSED-BLADE DAMPERS. GRILLE FINISH SHALL BE APPROVED BY THE OWNER AND THE ARCHITECT.
 - EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE ABLE TO PROVIDE THE REQUIRED CAPACITIES IN THE MODE OF ITS PERFORMANCE RANGE. THE EQUIPMENT SHALL HAVE ALL THE NECESSARY CONTROLS AND ACCESSORIES TO ALLOW FOR FULL OPERATION. IF EQUIPMENT HAS COMPONENTS OF A VIBRATING NATURE, THE CONTRACTOR SHALL PROVIDE THE NECESSARY VIBRATION CONTROLS.
 - CONTROLS SHALL BE EQUAL TO MANUFACTURER'S CONTROLS. THERMOSTATS SHALL BE DIGITAL WITH BATTERY BACK-UP. SETPOINTS SHALL FOLLOW DESIGN CONDITIONS OR BE AS DIRECTED BY THE OWNER.
 - THE HVAC SYSTEM SHALL BE TESTED AND BALANCED ACCORDING TO AHS STANDARDS. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A COPY OF THE TEST AND BALANCE REPORT AND THE OWNER WITH A LETTER STATING THAT THE SYSTEM(S) HAVE BEEN BALANCED TO WITHIN 10% OF DESIGN PARAMETERS.

MECHANICAL LEGEND

MARK	DESCRIPTION
CFM	CUBIC FEET PER MINUTE
CEH	CEILING EXHAUST REGISTER (TYPUS 350F)
OA	OUTSIDE AIR
→	RETURN OR EXHAUST AIR
⊕	THERMISTOR/SENSOR
Ⓢ	EXHAUST AIR DUCTWORK



WALL HEATER SCHEDULE

MARK	DESCRIPTION	FUEL TYPE	INPUT	OUTPUT	HEAT	TEMP	RISE	AIRFLOW	FJA	VOLTAGE	PHASE	Hz	MANUFACTURER	MODEL	WEIGHT
WH-1 & WH-2	ELECTRIC UNIT HEATER	ELECTRICITY	2200 WATTS	24,121 BTU	34,121 BTU	13.7°F	1	200	141.7	240	1	60	REZNOR	EHA-TSL-10-HC15	50 LBS

NOTES: PROVIDE INTERNAL TAMPER-PROOF SINGLE-STAGE THERMOSTAT. INSTALL UNIT AS TAMPER-PROOF AS POSSIBLE.

Inline Cabinet Fan Schedule

MARK INFORMATION		FAN INFORMATION					MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WGS)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LBS.)	SIZE (HP)	VICP	ENCLOSURE	MOTOR RPM	WINDINGS
1	EF-A	CSFPA710	510	0.25	1,005	0.13	38	0	115/60/1	CP	1080	1

SELECTED OPTIONS AND ACCESSORIES

ULULU 507 Listed - Electric Fan
 Solid State Speed Control 0 Amp, Shipped Loose
 Isolation Kit (PN: VI-KIT-SVPCSP), Shipped Loose
 Adjustable easy installation mounting bracket
 Oversized 1/4" x 1/4" Material
 Fan shall run with light switch in bathroom.

Inline Cabinet Fan Schedule

MARK INFORMATION		FAN INFORMATION					MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LBS.)	SIZE (HP)	VICP	ENCLOSURE	MOTOR RPM	WINDINGS
1	EF-B	CSFPA710	520	0.25	948	0.11	38	0	115/60/1	CP	1080	1

SELECTED OPTIONS AND ACCESSORIES

ULULU 507 Listed - Electric Fan
Solid State Speed Control 0 Amp, Shipped Loose
Isolation Kit (PN: VI-KIT-SVPCSP), Shipped Loose
Adjustable easy installation mounting bracket
Oversized 1/4" x 1/4" Material
Fan shall run with bathroom lights.

WALL HEATER SCHEDULE															
MARK	DESCRIPTION	FUEL TYPE	INPUT	OUTPUT	HEAT	TEMP	RISE	AIRFLOW	FJA	VOLTAGE	PHASE	Hz	MANUFACTURER	MODEL	WEIGHT
WH-1	ELECTRIC WALL HEATER	ELECTRICITY	2,000 WATTS	6,825 BTU	39	160	8.3	240	1	60			REZNOR	EHA-TSL-2-HC15	24 LBS

NOTES: PROVIDE INTERNAL SINGLE-STAGE THERMOSTAT. INSTALL UNIT AS TAMPER-PROOF AS POSSIBLE.

1 MECHANICAL FLOOR PLAN

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



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PE Job Number: 2426

1 APR 2025 FOR BID

MECHANICAL FLOOR
PLAN, SCHEDULES,
LEGEND, & NOTES

M1.10

Notes: Areas and the lines and change indicated needs building official approval and use will be the minimum required, applicable or changed to the plan or owner should the owner require modification and control of all information, including a 2024.

DATE: 1 APR 2025

DRAWN BY: JAP

PROJECT NO: 2017

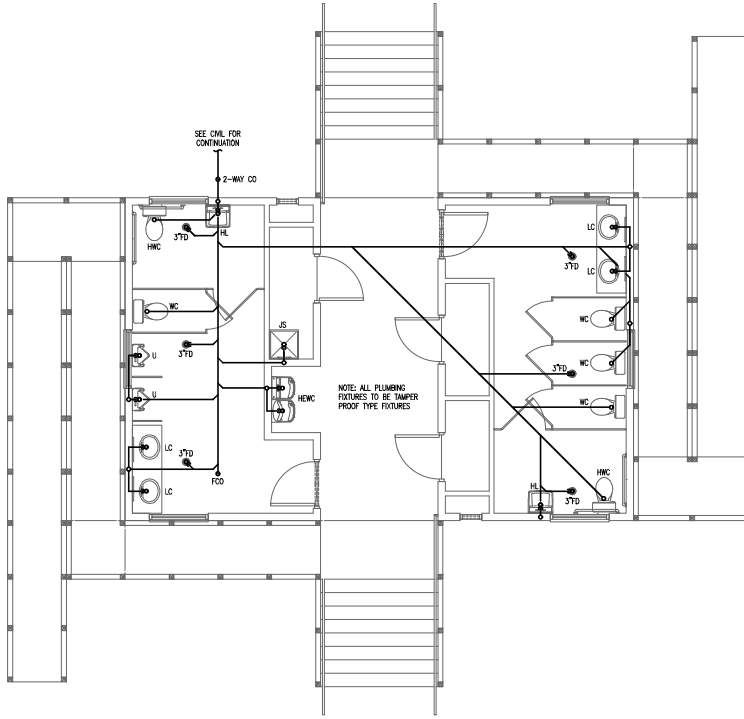
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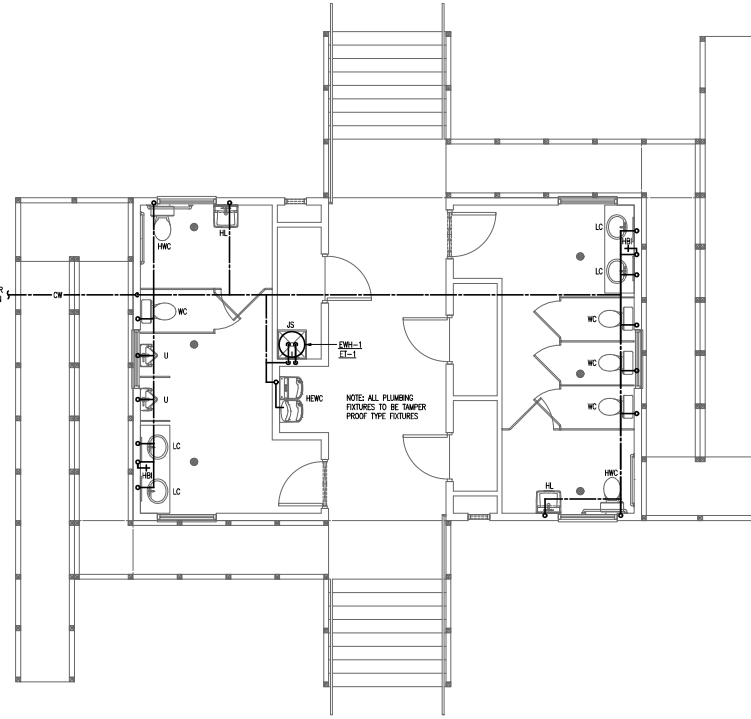
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1 PLUMBING FLOOR PLAN - SANITARY SEWER
SCALE: 1/4" = 1'-0"



2 PLUMBING FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"



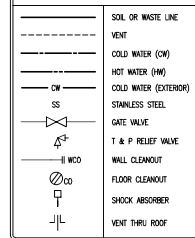
GENERAL PLUMBING NOTES

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NEEDED TO PROVIDE A COMPLETE PLUMBING SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, WATER PIPING, WASTE AND VENT PIPING, AND ALL NECESSARY VALVES, TRAPS, AND ACCESSORIES.
- ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCED WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
- ROUGH-INS SHALL BE MADE FROM ARCHITECTURAL DRAWINGS AND FIELD VERIFICATION, NOT FROM PLUMBING DRAWINGS AS THEY ARE ONLY SCHEMATIC. THIS CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND TAPS, AND FOR CHECKING ALL ELEVATIONS, GRADES, AND INVERTS BEFORE THE START OF CONSTRUCTION. IF UNSATISFACTORY CONDITIONS EXIST, NOTIFY THE ARCHITECT IMMEDIATELY.
- THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS TO AVOID CONFLICTS WITH OTHER TRADES. MAKE DEVIATIONS AS NECESSARY FROM THE WORK SHOWN ON THE DRAWINGS TO ENSURE THE WORK FITS THE SPACES PROVIDED. NOTIFY THE ARCHITECT OF ALL NECESSARY DEVIATIONS.
- IF NEW CONNECTIONS REQUIRE INTERRUPTION OF EXISTING SERVICES, ALL PREPARATORY WORK SHALL BE COMPLETED EARLY TO MINIMIZE TIME, WHERE POSSIBLE, PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN UTILITY SERVICE.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST.
- ALL SANITARY AND VENT LINES SHALL BE HUBLESS CAST IRON PIPE (CIPR) 310-78 STANDARD WEIGHT WITH SPOOT ENDS FOR COUPLING. HUBLESS CAST IRON JOINTS TO BE CIPR 310 STAINLESS STEEL SHIELD OVER ONE PIECE NEOPRENE SLEEVE. THIS CONTRACTOR MAY USE PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2685 WHERE ALLOWED BY CODE.
- ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATER-TIGHT IN A MANNER APPROVED BY THE MANUFACTURER OF THE ROOFING MATERIAL AND COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
- PROVIDE CLEANOUPS WHERE INDICATED ON PLANS AND AS NECESSARY TO COMPLY WITH THE STANDARD PLUMBING CODE. ALL CLEANOUPS SHALL BE IN ACCESSIBLE LOCATIONS.
- INSULATE ALL DOMESTIC WATER PIPING ABOVE GRADE WITH 3/4" THICK FLEXIBLE CLOSED-CELL POLYETHYLENE INSULATION. SEAL ALL JOINTS AND SEAMS AND INSULATE FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.
- INSTALL SHOCK ABSORBERS VERTICALLY AT EACH FIXTURE. OFFSET AS NEEDED TO GAIN A MINIMUM HEIGHT OF 18". ALL SHOCK ABSORBERS SHALL BE A MINIMUM OF ONE PIPE SIZE LARGER THAN THE BRANCH BEING SERVED.
- PROVIDE CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS IN FINISHED AREAS AND UNDER LAVATORIES. PROVIDE STOPS AND TRAPS FOR ALL FIXTURES. LEAK TEST WATER PIPING, FOR NOT LESS THAN 90 MINUTES AT 100 PSI. FULL SANITARY SEWER SYSTEM TO 100 PSI. LEAK TEST AND LEAK STAND FOR AT LEAST 30 MINUTES WITHOUT LEAKAGE. AFTER PRESSURE TESTS HAVE BEEN MADE, THOROUGHLY FLUSH THE ENTIRE DOMESTIC WATER SYSTEM WITH WATER UNTIL ALL ENTRAINED DIRT AND MUD HAVE BEEN REMOVED, AND STERILIZE. THE STERILIZING MATERIAL SHALL BE EITHER LIQUID CHLORINE CONFORMING TO THE FED. SPEC. FB-C-120, OR HYPOCHLORITE CONFORMING TO FED. SPEC. D-5-114, OR FED. SPEC. D-5-802M. THE CHLORINATING AGENT SHALL PROVIDE A MINIMUM DOSAGE OF 50 PPM AND SHALL BE RETAINED IN THE SYSTEM FOR 90 MIN. THE SYSTEM WILL THEN BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE RESIDUAL CHLORINE IS REDUCED TO LESS THAN 1.0 PPM. HAVE THREE STATE-APPROVED INDEPENDENT TESTING FACILITIES TAKE SAMPLES AND DELIVER CERTIFICATES OF APPROVAL TO THE OWNER. ANY NEGATIVE RESULTS MUST BE INVESTIGATED, AND IF NECESSARY CORRECTED, BEFORE THE BUILDING MAY BE ACCEPTED.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SANITARY	C.W.	H.W.
HWC	WATER CLOSET, FLOOR, FLUSH VALVE, ADA COMPLIANT, SS CONST, WILLOWBURY INDUSTRIES MODEL, ETT-1490-FM-FA-TS-HC	4"	1-1/4"	-
WC	WATER CLOSET, FLOOR, FLUSH VALVE, SS CONST, WILLOWBURY INDUSTRIES MODEL, ETT-1490-FM-FA-TS	4"	1-1/4"	-
U	URINAL, ADA COMPLIANT, SS CONST, WILLOWBURY INDUSTRIES MODEL, UN-1412-WC-FA-TS	2"	3/4"	-
HL	LAVATORY, WALL HUNG, ADA COMPLIANT, SS CONST, WILLOWBURY INDUSTRIES MODEL, HS-1014-96-HC-FA	1 1/4"	1/2"	-
LC	LAVATORY, COUNTERTOP, SS CONST, WILLOWBURY INDUSTRIES MODEL, CWLD-2-OF	1 1/4"	1/2"	-
HWEC	ELECTRIC WATER COOLER, ADA COMPLIANT, COOLER MUST BE RATED FOR OUTDOOR INSTALLATION	1 1/4"	1/2"	-
JS	JANITOR SINK, MOLDED STONE	1 1/2"	1/2"	1/2"
FD	FLOOR DRAIN W/ TRAP PRIMER AND TRAP GUARD	5"	-	-
HB	HOSE BIBB, FLUSH FACE, KEYED HANDLE, SS CONST	-	1/2"	-
EW-1	ELECTRIC WATER HEATER, 20 GALLON LOWBOY, 4.5 KW ELEMENTS, 200/5, EQUAL TO JO SMITH DELCO	Tap	1/2"	1/2"
ET-1	EXPANSION TANK, 2.1 GALLON, 1.48 GALLON TANK ACCEPTANCE, 150 PSI MAXIMUM PRESSURE, EQUAL TO WATTS PLT-5			

PLUMBING LEGEND



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DATE: 1/18/2025
DRAWN BY: JPE
PROJECT NO: 2025-001
REVISED: 1/18/2025

1 APR 2025 FOR BID

PLUMBING FLOOR PLANS, SCHEDULE, LEGEND & NOTES

P1.10

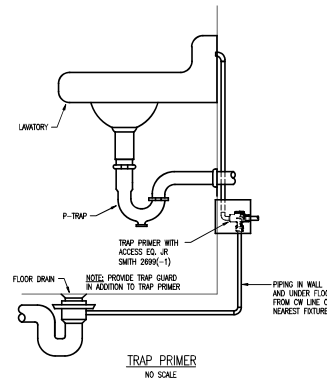
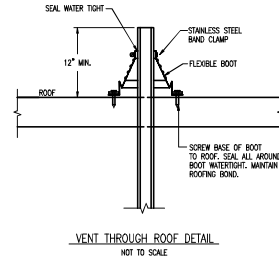
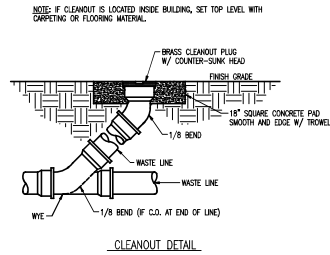
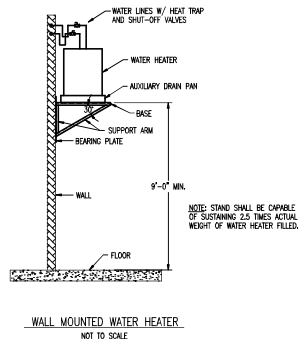
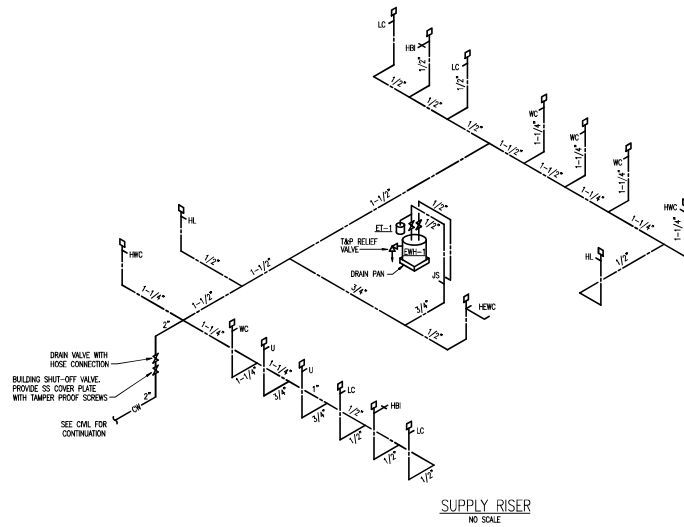
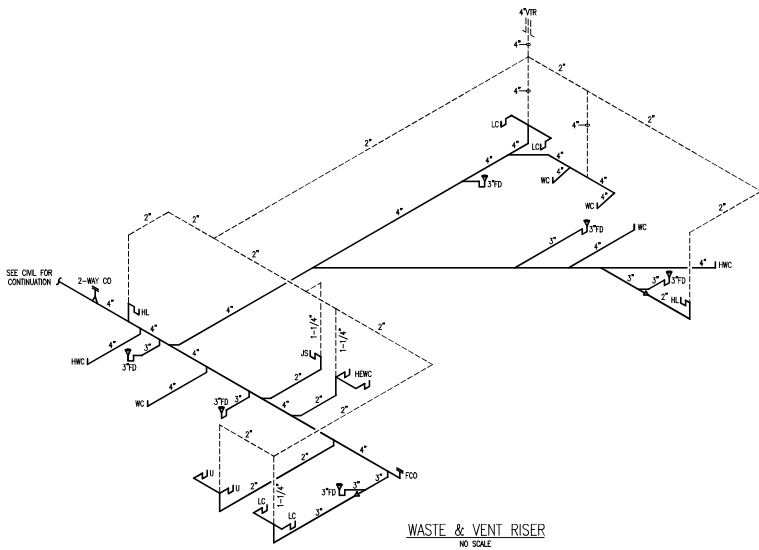
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PE Job Number: 2425

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PE Job Number: 2426

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PLUMBING RISERS
& DETAILS

P2.10

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