

MECHANICAL GENERAL NOTES

1. MATERIALS, EQUIPMENT, AND SYSTEMS SHALL MEET ALL PERTINENT REQUIREMENTS OF THE UNDERWRITERS LABORATORY (UL), THE 2021 INTERNATIONAL MECHANICAL CODE, THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE, THE 2021 INTERNATIONAL PLUMBING CODE, AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE), SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA), ALL NFPA CODES AND STANDARDS, NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES OF JEFFERSON PARISH WHICH MAY BE IN EFFECT.
2. CONTRACTORS SHALL BE LICENSED IN ACCORDANCE WITH LOCAL AND STATE LAWS.
3. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK UNDER THIS CONTRACT WITH ALL OTHER BUILDING TRADES. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING.
4. THE WORK REQUIRED CONSISTS OF PERFORMING ALL LABOR AND FURNISHING ALL MATERIALS, DEVICES AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF ALL MECHANICAL SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL ASSOCIATED ITEMS REQUIRED FOR THE PROPER OPERATION OF ALL MECHANICAL SYSTEMS.
5. THE INFORMATION INDICATED WITHIN THESE DRAWINGS IS DIAGRAMMATIC IN NATURE, CONTAINING INFORMATION TO A DEGREE OF DETAIL CONSISTENT WITH THEIR SCALE, ADEQUATE TO CONVEY THE DESIGN INTENT AND THEREFORE DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING OR SLOPE. PROVIDE EQUIPMENT, MATERIALS AND METHODS NOT SHOWN OR SPECIFIED BUT REQUIRED TO PROVIDE A COMPLETE AND COORDINATED INSTALLATION.
6. CONTRACTORS SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THEY SHALL EXAMINE ALL SERVICES, EQUIPMENT, SURFACES, ETC., WHICH THIS WORK IS IN ANY WAY DEPENDENT UPON, AND BRING ANY DISCREPANCIES DETERMINED OR OMISSIONS FOUND IN THE DRAWINGS TO THE OWNER'S ATTENTION BEFORE SUBMITTING BID. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD DIMENSIONS, LOCATIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF ANY MATERIALS AND COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT WILL AFFECT THE WORK FOR RESOLUTION.
8. ALL PERMITS AND FEES REQUIRED FOR THIS WORK SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR AND INCLUDED IN BID PRICE.
9. ANYTHING DRAWN OR SPECIFIED ON THESE PLANS SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY LOCAL, MUNICIPAL, OR STATE LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY MECHANICAL OR RELATED WORK, WHERE ANY PORTION OF THE SYSTEMS IS NOT INSTALLED AS IN ACCORDANCE WITH APPLICABLE LAWS, ORDINANCES, REGULATIONS AND CODES. THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER APPROVED BY THE OWNER AND WITHOUT ADDITIONAL COST TO THE OWNER.
10. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.
11. ALL EQUIPMENT SHALL BE NEW AND UNUSED, UON, AND SHALL BEAR THE LABEL OF AN APPROVED AGENCY. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT CONFORMANCE TO MANUFACTURER'S INSTRUCTIONS, EXCEPT WHERE THESE SPECIFICATIONS REQUIRE A HIGHER QUALITY INSTALLATION THAN RECOMMENDED BY MANUFACTURER. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH INSTALLATION INSTRUCTIONS, WHICH SHALL BE MADE AVAILABLE AT THE JOB SITE.
12. ALL EXISTING TO REMAIN EQUIPMENT SHALL BE CLEANED TO LIKE NEW CONDITION, SERVICED, AND TESTED IN PLACE BY THE CONTRACTOR. THE EQUIPMENT SHALL BE FUNCTION LIKE NEW. ANY REPAIRS REQUIRED TO MAKE THE EQUIPMENT FULLY FUNCTIONAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF IT IS FOUND THAT THE EQUIPMENT IS NOT SERVICEABLE THE EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
13. ALL EQUIPMENT AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE, REPLACEMENT AND/OR USE. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT, DEVICES AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
14. IF EQUIPMENT, DEVICES AND MATERIALS, OTHER THAN THOSE SCHEDULED OR SPECIFIED, ARE APPROVED AND PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND PROVIDE REVISED UTILITIES AND SERVICE CONNECTIONS AND VERIFY THE SPACE ALLOTTED IS ADEQUATE TO MAINTAIN THE CLEARANCE REQUIREMENTS REQUIRED BY THE MANUFACTURER AND FOR ACCESS AND MAINTAINABILITY AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
15. PROVIDE STARTERS FOR ALL EQUIPMENT UNLESS SPECIFICALLY IDENTIFIED AS BEING PROVIDED BY THE ELECTRICAL CONTRACTOR.
16. ALL INSTALLED SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED IN PLACE ON SITE. REPLACE ANY AND ALL DEFECTIVE DEVICES, ITEMS OR SYSTEMS AT CONTRACTOR'S OWN EXPENSE BEFORE COMPLETION OF THE PROJECT.
17. CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERRECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLING MANUFACTURER'S GUARANTEED EQUIPMENT. THIS CONTRACTOR'S GUARANTEE SHALL EXIST FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO DEFECTS IN MATERIAL AND TO DEFECTIVE WORKMANSHIP OF ANY KIND.
18. CONTRACTOR SHALL REPLACE AT CONTRACTOR'S OWN EXPENSE ANY CONTRACTOR-SUPPLIED MATERIALS, EQUIPMENT, AND RELATED ITEMS THAT FAIL OR ARE FOUND TO BE DEFECTIVE WITHIN THE GUARANTEE PERIOD.
19. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS TO ALLOW FOR MECHANICAL INSTALLATIONS. SPECIAL CONSIDERATION SHALL BE MADE FOR LARGE EQUIPMENT. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED IN PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF MECHANICAL EQUIPMENT AND MATERIALS.
20. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF MECHANICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK.
21. COORDINATE MECHANICAL EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, LIGHT FIXTURES, AND OTHER INSTALLATIONS.
22. EQUIPMENT LOCATIONS, ROOF & WALL OPENINGS ARE APPROXIMATE: VERIFY SIZE AND COORDINATE WITH GENERAL CONTRACTOR, EQUIPMENT SUPPLIER, AND OWNER. PROVIDE STEEL FRAMING AROUND ROOF OPENING(S) WHERE REQUIRED AND AROUND WALL OPENING(S) WHERE REQUIRED.
23. ALL FINISHED CONSTRUCTION AND/OR EXISTING BUILDING AND SITE FEATURES NOT BEING ALTERED BY THIS PROJECT ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL REPAIR ALL DAMAGE OCCURRING TO FINISHED AND/OR EXISTING CONSTRUCTION CAUSED BY THE CONTRACTOR'S OPERATIONS AT HIS/HER EXPENSE TO THE COMPLETE SATISFACTION OF THE OWNER.
24. DO NOT ENDANGER OR DAMAGE INSTALLED WORK THROUGH PROCEDURES AND PROCESSES OF CUTTING AND PATCHING. ARRANGE FOR REPAIRS REQUIRED TO RESTORE OTHER WORK, BECAUSE OF DAMAGE CAUSED AS A RESULT OF MECHANICAL INSTALLATIONS.
25. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL MECHANICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
26. INSTALL MECHANICAL EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
27. ALL MECHANICAL SYSTEMS SHALL BE TESTED, BALANCED, AND ADJUSTED. COORDINATE AND PROVIDE BALANCING DEVICE REQUIREMENTS WITH TEST AND BALANCE SERVICE TO ASSURE ADEQUATE DAMPERS AND VALVES ARE PROVIDED FOR FLOW CONTROL. MECHANICAL CONTRACTOR TO PROVIDE ALL MANUAL VOLUME DAMPERS WHERE SHOWN ON DRAWINGS AND WHERE REQUESTED BY BALANCING CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
28. BALANCING CONTRACTOR SHALL CALIBRATE ALL THERMOSTATS AND SENSORS AT THE COMPLETION OF THE PROJECT.
29. THE ENTIRE INSTALLATION, INCLUDING THE GAUGES OF DUCTWORK, SHALL BE IN STRICT COMPLIANCE WITH SMACNA STANDARDS, EXCEPT WHERE THESE SPECIFICATIONS REQUIRE A STRICTER INSTALLATION STANDARD. SYSTEM IS 1" PRESSURE CLASS, UON. ALL DUCTS SHALL BE SEALED TO MEET SMACNA CLASS C REQUIREMENTS MINIMUM, AND SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'. SEALANT SHALL COMPLY WITH U.L. STANDARD 181.
30. ALL SQUARE THROAT, 90 DEGREE MITERED DUCT ELBOWS SHALL HAVE TURNING VANES AT 2" SPACING THAT ARE EXTENDED IN THE DIRECTION OF AIRFLOW OR SHALL BE RADIIUSED, PER SMACNA. ALL DUCT TRANSITIONS SHALL BE SMOOTH (90 DEGREE TAPER MAXIMUM), NOT ABRUPT.
31. ALL SUPPLY AND RETURN AND OUTSIDE AIR DUCTS SHALL BE INSULATED WITH A MINIMUM OF 1-1/2" FIBERGLASS DUCT INSULATION. WHERE PIPES PASS THROUGH FIRE-RATED CONSTRUCTION, SEAL WITH CODE REQUIRED MATERIALS. INSULATION SHALL BE FIBERGLASS WRAP WITH SCRIM-REINFORCED FOIL BACKING. SEAL ALL JOINTS AND PUNCTURES TO PRESERVE VAPOR BARRIER.
32. WHERE DUCTS PASS THROUGH FIRE-RATED CONSTRUCTION, PROVIDE DAMPER AND SEAL WITH CODE REQUIRED MATERIALS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED CONSTRUCTION.
33. ACCESS DOORS AND/OR PANELS SHALL BE PROVIDED AT ALL MAINTENANCE AND SERVICE LOCATIONS FOR CONCEALED EQUIPMENT, VALVES, DAMPERS AND DEVICES. UNLESS A SIZE IS SPECIFICALLY NOTED, PANELS SHALL BE SIZED TO SERVICE EQUIPMENT/DEVICE BUT SHALL NOT BE LESS THAN 12" X 12".
34. DOORS AND PANELS SHALL HAVE THE SAME FIRE RATING AS THE WALL OR CEILING IN WHICH THEY ARE INSTALLED. ACCESS DOORS AND/OR PANELS ARE NOT REQUIRED WHERE ADJUSTMENT, MAINTENANCE AND REPLACEMENT ARE POSSIBLE THROUGH LAY-IN SUSPENDED CEILING.
35. DUCT SMOKE DETECTORS AND ACCESSORIES SHALL BE UL TESTED AND LISTED. EQUIPMENT AND INSTALLATION SHALL MEET ALL PERTINENT REQUIREMENTS OF THE MECHANICAL CODE AND NFPA 72. DUCT SMOKE DETECTORS LOCATED MORE THAN 10 FT ABOVE THE FINISHED FLOOR, OR LOCATED SUCH THAT THE DETECTOR'S ALARM INDICATOR IS NOT VISIBLE TO RESPONDING PERSONNEL, SHALL BE PROVIDED WITH REMOTE ALARM INDICATORS. EACH REMOTE INDICATOR SHALL BE CLEARLY LABELED AS TO FUNCTION AND AIR HANDLING UNIT SERVED, WITH AN ACRYLIC ENGRAVED NAMEPLATE.
36. ALL DIFFUSERS AND GRILLES SHALL BE FACTORY FINISHED WHITE. ALL DIFFUSERS IN HIGH HUMIDITY AREA SHALL BE ALUMINUM.
37. ALL MECHANICAL EQUIPMENT SHALL HAVE VIBRATION ISOLATORS, AS WELL AS FLEXIBLE DUCT CONNECTORS. FLEXIBLE CONNECTORS SHALL BE UL 181 TESTED AND LABELED AND SHALL NOT EXCEED 12" IN LENGTH.
38. ALL DUCT COVERINGS, LININGS, TAPE AND VIBRATION ISOLATION CONNECTORS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25, AND A MAXIMUM SMOKE GENERATION RATING OF 50.
39. ALL DUCT DIMENSIONS LISTED ON PLANS ARE INSIDE CLEAR DIMENSIONS. INCREASE DUCTWORK SIZE TO ACCOMMODATE THE THICKNESS OF ACOUSTICAL LINER WHERE LINER IS SPECIFIED.
40. FLEXIBLE DUCTS SHALL NOT EXCEED 7' IN LENGTH, NOR SHALL THEY BE INSTALLED WHERE THEY MUST BE FLATTENED. FLEXIBLE DUCTS SHALL BE UL 181 TESTED AND LABELED, AND MUST BE FASTENED PER SMACNA STANDARDS. IF JOB CONDITIONS DO NOT PERMIT PROPER INSTALLATION OF FLEXIBLE DUCT, RECTANGULAR GALVANIZED STEEL DUCT WITH EQUAL FREE AREA SHALL BE USED INSTEAD. FIBERGLASS DUCT BOARD SHALL NOT BE USED.
41. PROVIDE VOLUME DAMPERS AT EACH BRANCH OFF OF A TRUNK DUCT TO A SUPPLY DIFFUSER.
42. INSULATION AND VAPOR BARRIER SHALL BE PROVIDED ON ALL PIPING AND EQUIPMENT SUBJECT TO HEAT LOSS, CONDENSATION, OR CONSTITUTING A POTENTIAL BURN HAZARD.
43. PIPE, DUCT AND EQUIPMENT INSULATION SHALL NOT BE CRUSHED OR COMPRESSED THROUGH INTERFERENCE WITH SYSTEMS INSTALLED BY OTHER TRADES OR BUILDING CONSTRUCTION.
44. ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID FREEZING. NO PIPING SHALL BE INSTALLED WITHIN EXTERIOR WALLS EXCEPT AT CONDENSATE PIPING TERMINATION POINTS.
45. PIPING CONNECTIONS TO ALL EQUIPMENT THAT PRODUCES CONDENSATE SHALL BE MADE WITH A P-TRAP IMMEDIATELY AFTER THE EQUIPMENT PIPE CONNECTION. ROUTE THE CONDENSATE PIPING ABOVE CEILING AS HIGH AS POSSIBLE. PROVIDE CONDENSATE PUMP WHERE GRAVITY SLOPED PIPING IS NOT POSSIBLE.
46. ALL AIR HANDLERS, CONDENSERS, CONTROL DEVICES AND OTHER MECHANICAL APPARATUS SHALL BE CLEARLY MARKED FOR EASY IDENTIFICATION AND SAFETY. USE BLACK PLASTIC OR BAKELITE NAME PLATE ENGRAVED WITH WHITE LETTERS 1/4" HIGH. PUNCHED TAPE IS NOT ACCEPTABLE.
47. COORDINATE ALL DUCTWORK, DEVICE, PIPING AND EQUIPMENT LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK. COORDINATE WITH GENERAL CONTRACTOR, AND ALL TRADES, ALL REQUIREMENTS FOR INSTALLATION, INCLUDING SERVICE UTILITY CONNECTIONS, POINT LOADS, CHASES, SLEEVES, SUPPORTING DEVICES, OPENINGS AND CUT-OUTS, AND PENETRATIONS OF WALLS, CEILINGS OR SHAFTS.
48. MECHANICAL CONTRACTOR SHALL FURNISH RECORD SET OF DRAWINGS WITH ANY DEVIATIONS MARKED IN RED INK.
49. MERV-13 FILTERS SHALL BE UTILIZED WHENEVER APPLICABLE.

MECHANICAL SYMBOLS

	DUCT SECTION UP, POSITIVE PRESSURE
	DUCT SECTION UP, NEGATIVE PRESSURE
	DUCT SECTION DOWN, POSITIVE PRESSURE
	DUCT SECTION DOWN, NEGATIVE PRESSURE
	GALV STEEL DUCT, 1ST NUMBER IS SIDE SHOWN (IN)
	THERMOSTAT
	HEAT ONLY THERMOSTAT
	MANUAL VOLUME DAMPER
	SUPPLY DIFFUSER, REGISTER, OR GRILLE, CFM AS NOTED ON SCHEDULE AND FLOOR PLAN
	RETURN OR EXHAUST GRILLE, CFM AS NOTED ON SCHEDULE AND FLOOR PLAN
	SIDEWALL SUPPLY GRILLE, CFM AS NOTED ON SCHEDULE AND FLOOR PLAN
	TURNING VANES, EXTENDED IN DIRECTION OF FLOW AND LOCATED 2" ON CENTER
	DYNAMIC FIRE DAMPER WITH ACCESS PANEL
	RECTANGULAR TO ROUND DUCT TRANSITION
	DUCT ELEVATION CHANGE, U = UP, D = DOWN
	DUCT TRANSITION
	STANDARD 45° BRANCH, SUPPLY/RETURN WITH MANUAL VOLUME DAMPER
	ROUND FLEXIBLE DUCT, SIZE IN INCHES
	DUCT ACCESS DOOR
	NUMBERED NOTE
AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BDD	BACK DRAFT DAMPER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
CA	COMBUSTION AIR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EXH	EXHAUST
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
G	GAS
GC	GENERAL CONTRACTOR
HC	HEAT CAPACITY
HP	HORSE POWER
HSR	HIGH SIDEWALL REGISTER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HTR	ELECTRIC HEATER
KW	KILOWATT
LRA	LOCKED ROTOR AMPS
MBH	THOUSAND BRITISH THERMAL UNITS
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MUA	MAKEUP AIR UNIT
MVD	MANUAL VOLUME DAMPER
NC	NOISE CRITERIA
OA	OUTDOOR AIR
RA	RETURN AIR
RAG	RETURN AIR GRILLE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

DIFFUSER AND GRILLE SCHEDULE

ID	CFM	NC	OVERALL	NECK	MATERIAL	DR	TR	FD	DESCRIPTION	MFR - MODEL
HSR-A	50-150	<25	8"x8"	6"x6"	STEEL	YES	YES	NO	3-WAY CEILING DIFFUSER	TITUS - 300RL
HSR-B	150-300	20-30	10"x10"	8"x8"	STEEL	YES	YES	NO	3-WAY CEILING DIFFUSER	TITUS - 300RL
HSR-C	400	<25	12"x12"	10"x10"	STEEL	YES	YES	NO	3-WAY CEILING DIFFUSER	TITUS - 300RL
CD-A	50-100	<25	24"x24"	6"Ø	STEEL	YES	YES	NO	3-WAY CEILING DIFFUSER	TITUS - OMNI-AA
CD-B	125-200	20-30	24"x24"	8"Ø	STEEL	YES	YES	NO	3-WAY CEILING DIFFUSER	TITUS - OMNI-AA
CD-C	200-300	28	24"x24"	16"Ø (15"x15")	ALUMINUM	YES	YES	NO	4-WAY HIGH CAPACITY LOUVERED FACE DIFFUSER W/OBD (SEE DAMPER SCHEDULE BELOW)	TITUS - TDC-AA
RAG-A	1200-1600	<30	26"x18"	24"x16"	STEEL	NO	NO	NO	FILTER GRILLE	TITUS - 350RL

ABBREVIATIONS: DR - OPPOSED BLADE ALUMINUM DAMPER
TR - SQUARE TO ROUND NECK TRANSITION
FD - FIRE DAMPER ASSEMBLY WITH RADIATION BLANKET

- NOTES:**
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
 2. TITUS INDUSTRIES MODELS SHOWN OR EQUAL NAILOR OR PRICE.
 3. AIR DISTRIBUTION DEVICES SHALL BE STEEL CONSTRUCTION FOR ALL DIFFUSERS/GRILLES AND INSTALLED WITH STAINLESS STEEL SCREWS.
 4. PROVIDE STEEL PLASTER RINGS FOR MOUNTING AIR DEVICES IN HARD PLASTER AND DRYWALL CEILINGS.
 5. ALL CEILING-MOUNTED AIR DEVICES SHALL HAVE COLOR AS SELECTED BY ARCHITECT.
 6. THE INTERIOR OF ALL AIR DEVICES INCLUDING ACCESSORIES SHALL BE FLAT BLACK, FACTORY OR FIELD APPLIED.
 7. LOCATE ALL CEILING-MOUNTED AIR DEVICES IN CEILING. COORDINATE WITH OTHER DIVISIONS OF WORK AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND PREFERRED MOUNTING METHOD.
 8. PROVIDE SHEET METAL RADIUS ELBOW FULL SIZE OF CEILING DIFFUSER, EXHAUST REGISTER OR RETURN AIR GRILLE NECK FOR CONNECTION TO THE NECK AND FLEXIBLE DUCT, WHERE REQUIRED.
 9. AIR QUANTITY AND NECK SIZE AS SHOWN ON THE DRAWINGS.

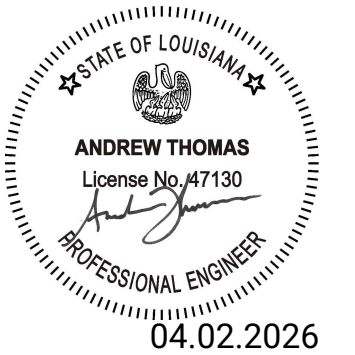
DAMPER SCHEDULE

ROUND	ID	MANUFACTURER	MODEL	TYPE
BDD	1	SSWDR-53	BACKDRAFT DAMPER	
OBD	GREENHECK	AG-95	OPPOSED BLADE DAMPER	

- NOTES:**
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. BACKDRAFT DAMPER TO BE INSTALLED IN VERTICAL POSITION AT PENETRATION OF RATED WALL ASSEMBLY.
 3. OPPOSED BLADE DAMPER TO BE INSTALLED ON NECK OF EACH TDC-AA SUPPLY REGISTER.
 4. PROVIDE 12" x 12" ACCESS PANEL AT/NEAR BDD DAMPER LOCATIONS AS REQUIRED FOR SFM INSPECTION AND MAINTENANCE.

Terrytown Laundromat

51 Holmes Blvd, Ste C, D, E
Terrytown, LA 70114



Drawn By AT
Checked By AT

Permit 04.02.2026

M-0.01

Mechanical General Notes &
Schedules

DOAS-1 (MAKE-UP AIR SYSTEM) - PACKAGED AIR HANDLING UNIT SCHEDULE																				
TAG	SERVES	BASIS OF DESIGN (GREENHECK)	EXTERNAL STATIC PRESSURE IN W.G.	CONNECTED TO:		COOLING CAPACITY				HEATING CAPACITY			HOT GAS REHEAT			ELECTRICAL			RECOMMENDED FUSE SIZE	
				CONDENSING UNIT	SUPPLY FAN	AIR FLOW RATE CFM	ENTERING AIR		LEAVING AIR		TOTAL BTU/H	ENTERING AIR °F DB	LEAVING AIR °F DB	TOTAL BTU/H	ENTERING AIR °F DB	LEAVING AIR °F DB	POWER SUPPLY	MIN CIRCUIT AMPS		MAX OVERCURRENT PROTECTION
							*F DB	*F WB	*F DB	*F WB										
OA-AHU-1	LAUNDRY	RV-110	1.25	OA-CU-1	10,360	740,800	95	80	52.7	52.6	221,700	30	106.2	221,700	55	70.0	208V - 230V 1PH	5.4	9.3	15

- NOTES:
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
 2. UNIT SHALL BE LOW PROFILE.
 3. UNIT SHALL PROVIDE 100% OUTSIDE AIR WITHOUT RECIRCULATION.
 4. FILTER MONITORING WITH REMOTE ALARM VIA PRESSURE MEASUREMENT ACROSS THE FILTER. MERV13 FILTERS ON OA.
 5. UNITS SHALL BE UL, CSA, AND AHRI CERTIFIED.
 6. FACTORY MOUNTED DX AND HGRH COILS. FACTORY MOUNTED AND BRAZED EXPANSION VALVE KITS (EEV) UTILIZED FOR TEMPERATURE AND HUMIDITY CONTROL. CONTROLLER AND UNIT ARE CONNECTED TO SINGLE POINT POWER.
 7. SHIP LOOSE TEMPERATURE AND HUMIDITY SENSOR FOR DISCHARGE AIR TEMPERATURE AND HUMIDITY CONTROL.
 8. UNIT SHALL INCLUDE FACTORY PROGRAMMED SPACE PRESSURE CONTROL WITH DIFFERENTIAL PRESSURE TRANSDUCER FOR FAN TRACKING.
 9. INTAKE LOUVER SHALL BE GREENHECK EVH-501 (VERTICAL WIND-DRIVEN RAIN) WITH VCD-40 LOW-LEAKAGE DAMPER.
 10. PROVIDE DIGITAL SCROLL COMPRESSORS FOR CAPACITY MODULATION TO MATCH VARIABLE EXHAUST LOAD.

DOAS-1 (MAKE-UP AIR SYSTEM) - CONDENSER UNIT SCHEDULE																																				
TAG	BASIS OF DESIGN (GREENHECK)	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE		CONNECTION RATIO (%)	VOLTAGE-PHASE	ELECTRICAL												DIMENSIONS		EFFICIENCY (NONDUCTED/DUCTED OR SPECIFIC COMBO)						OPTIONS AND ACCESSORIES				
				BTU/H	AMBIENT DESIGN (*F DB)	BTU/H	AMBIENT DESIGN (*F DB / WB)	FACTORY CHARGE (LBS)	ADD'L REFRIGERANT (LBS)			MIN CIRCUIT AMPS (MCA)				MAX OVERCURRENT PROTECTION (MOP)				RUNNING CURRENT (RLA)				(WXHxD) (INCH)	WEIGHT (LBS)	EER	IEER	COP47	COP17	SCHE	SEER		HSPF			
												MOD #1	MOD #2	MOD #3	TOTAL	MOD #1	MOD #2	MOD #3	TOTAL	MOD #1	MOD #2	MOD #3	TOTAL													
OA-CU-1	OCC	60-65	AIR COOLED HEAT RECOVERY (1)	740,800	95	221,700	30.0/25.8	25.8	N/A	75.0	208/230V - 3PH	350.0				350.0	450.0			450.0	280.0					280.0	TBD x TBD x TBD	4200.0	14.6/12.5	27.8/21.9	4.23/3.56	2.63 / 2.31	26.4 / 21.1	N/A , N/A	N/A , N/A	TBD (1)

- NOTES:
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
 2. PRIOR TO ACCEPTANCE, ENSURE PRODUCTS ARRIVE ON SITE WRAPPED IN PROTECTIVE CARDBOARD AND WEATHER-RESISTANT WRAPPING. INSPECT FOR DAMAGE.
 3. INSTALL UNIT LEVEL PER MANUFACTURER'S SPECIFICATIONS AND SECURE TO BASE TO WITHSTAND MIAMI DADE HURRICANE FORCE WINDS.

SEQUENCE OF OPERATION: MUA-1 (RV-110)

1. UNIT ENABLE: SYSTEM SHALL BE ENABLED VIA REMOTE MANUAL SWITCH.
2. INTAKE DAMPER (VCD-40): ON UNIT ENABLE, THE INTAKE DAMPER SHALL POWER OPEN. THE SUPPLY FAN SHALL REMAIN INTERLOCKED OFF UNTIL THE DAMPER END-SWITCH CONFIRMS THE FULLY OPEN POSITION.
3. BUILDING PRESSURE CONTROL: THE UNIT CONTROLLER SHALL MODULATE THE SUPPLY FAN VFD TO MAINTAIN A BUILDING PRESSURE SETPOINT OF +0.03"W.G. (ADJUSTABLE) RELATIVE TO THE OUTDOORS VIA A DIFFERENTIAL PRESSURE TRANSDUCER.
4. DEHUMIDIFICATION MODE: ACTIVE WHEN OUTDOOR AIR DEWPOINT (OADP) IS ABOVE 55 F.
COOLING: MODULATE DIGITAL COMPRESSORS TO MAINTAIN A 55 F LEAVING COIL TEMPERATURE (LCT).
REHEAT: MODULATE HOT GAS REHEAT (HGRH) COIL TO MAINTAIN A NEUTRAL 70 F DISCHARGE AIR TEMPERATURE (DAT).
5. HEATING MODE: ACTIVE WHEN OUTDOOR AIR TEMPERATURE (OAT) IS BELOW 65 F. MODULATE HEAT SOURCE TO MAINTAIN A 70 F DAT.
6. SAFETY & SHUTDOWN:
ON UNIT DISABLE, THE FAN SHALL STOP AND THE INTAKE DAMPER SHALL SPRING-RETURN TO THE CLOSED POSITION.

2021 IMC SECTION 403 MECHANICAL VENTILATION: 403.3 OUTDOOR AIR AND LOCAL EXHAUST AIRFLOW RATES & 508.1.2: AIR BALANCE

COMMERCIAL LAUNDRY:
OCCUPANT DENSITY: 20 CFM / 1000 S.F. @ 2768 S.F. = 55 PEOPLE
PEOPLE OUTDOOR AIRFLOW RATE: (55 PEOPLE) * (7.5 CFM / PERSON) = 412.5 CFM
AREA OUTDOOR AIRFLOW RATE: 0.12 * 2768 S.F. = 332.5 CFM

TOTAL OUTDOOR AIR PROVIDED TO SPACE = 420 CFM (140 CFM TIED INTO RETURN OF EACH INDOOR AHU)

INTAKE LOUVER SCHEDULE

ID	MFR - MODEL	QTY.	FREE AREA S.F.	FREE AREA PERCENTAGE	ESP	DIMENSIONS	SERVES
EVH-501D	GREENHECK - EVH-501D	1	13.78	55%	0.09	60"H x 60"W x 5"D	LAUNDROMAT

- NOTES:
1. AMCA 550 LISTED HURRICANE RATED INTAKE LOUVER.
 2. FRAME SHALL BE HEAVY GAUGE EXTRUDED 6063-T5 ALUMINUM.
 3. MAKE-UP AIR SYSTEM AND INTAKE LOUVERS/DAMPERS SHALL BE INTERLOCKED TOGETHER VIA PRESSURE DIFFERENTIAL SENSORS AND CONTROLLERS.
 4. LOUVER TO BE INSTALLED WITH MANUFACTURER RECOMMENDED SLEEVE INTO EXTERIOR WALL TO ENSURE WATERTIGHT SEAL BETWEEN LOUVER AND DUCTWORK.

INTAKE DAMPER SCHEDULE

ID	MFR - MODEL	QTY.	ESP	DIMENSIONS	SERVES	ACTUATOR ELECTRIC INFO
VCD-40	GREENHECK - VCD-40	1	0.03	59.75"H x 59.75"W x 4"D	LAUNDROMAT	120 VAC

- NOTES:
1. INTAKE DAMPERS SHALL BE INSTALLED IN A JACKSHAFT CONFIGURATION FOR A TOTAL 4 DAMPERS PER 1 INTAKE LOUVER.
 2. MAKE-UP AIR SYSTEM AND INTAKE LOUVERS/DAMPERS SHALL BE INTERLOCKED TOGETHER VIA PRESSURE DIFFERENTIAL SENSORS AND CONTROLLERS.
 3. ACTUATOR MOUNTING SHALL BE INTERNAL.
 4. ENCLOSURE SHALL BE NEMA 3 OR GREATER.

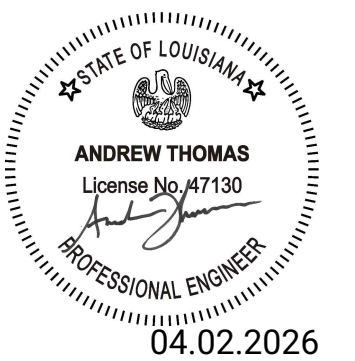
EXHAUST FAN SCHEDULE

ID	MFR - MODEL	QTY.	CFM	ESP	SONES	DRIVE	DIMENSIONS	WT(LBS)	SERVES	MOTOR DATA		
										POWER	VOLT/PH/Hz	RPM
EF-1	GREENHECK - SP-B80	2	50	0.25"	0.8	DIRECT	14.875 "x13.25"x7"	10	BATHROOMS	13 W	115/1/60	900

- NOTES:
1. PROVIDE FAN WITH INTEGRAL BACKDRAFT DAMPER.
 2. SUSPEND FAN FROM STRUCTURE WITH SPRING TYPE VIBRATION ISOLATION, MAXIMUM DEFLECTION 3/4".
 3. PROVIDE MANUFACTURER'S DISCONNECT.
 4. EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH.

Terrytown Laundromat

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Terrytown, LA 70114

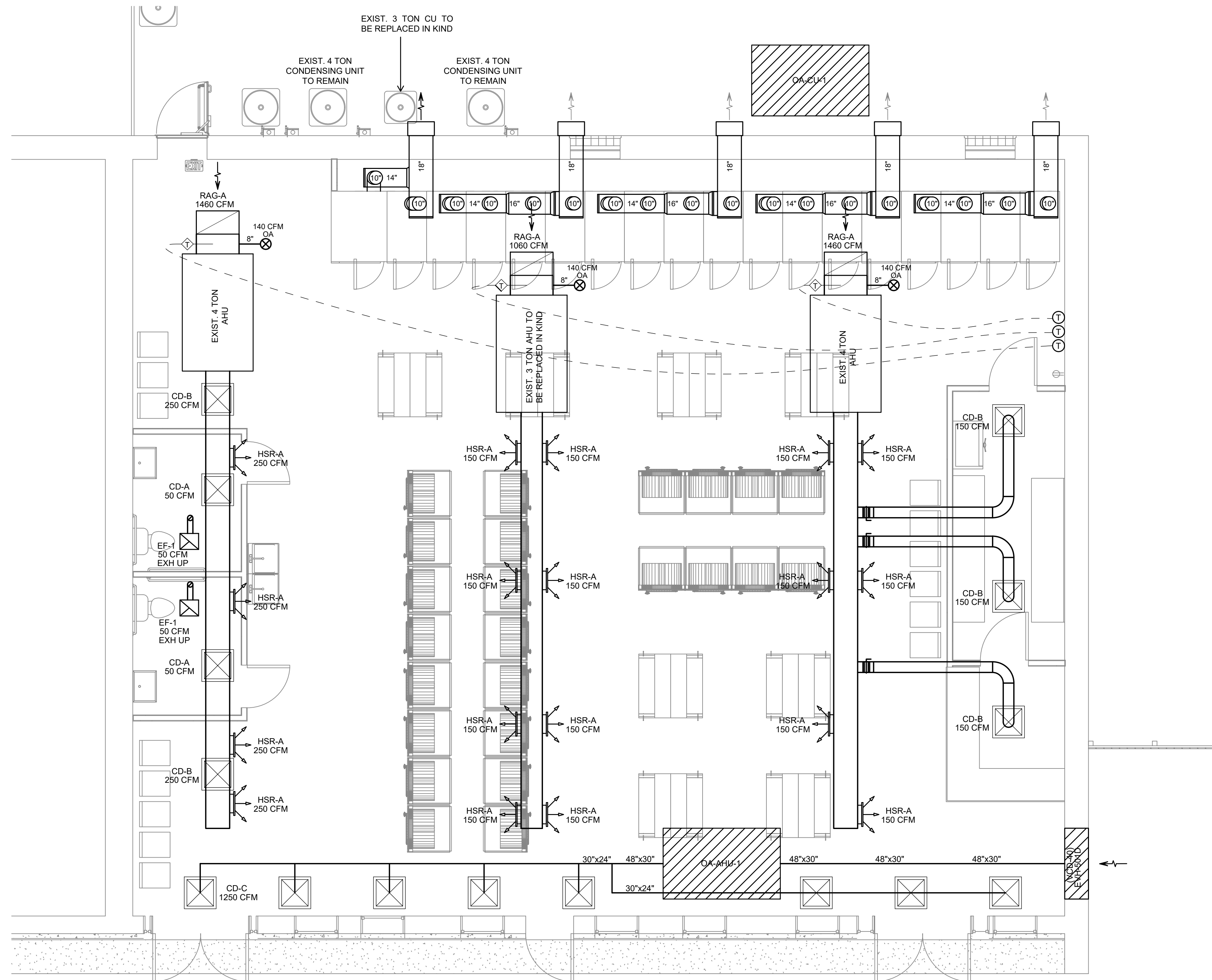


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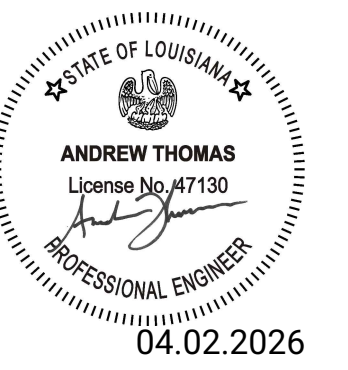
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HVAC Schedules



Terrytown Laundromat

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Terrytown, LA 70114

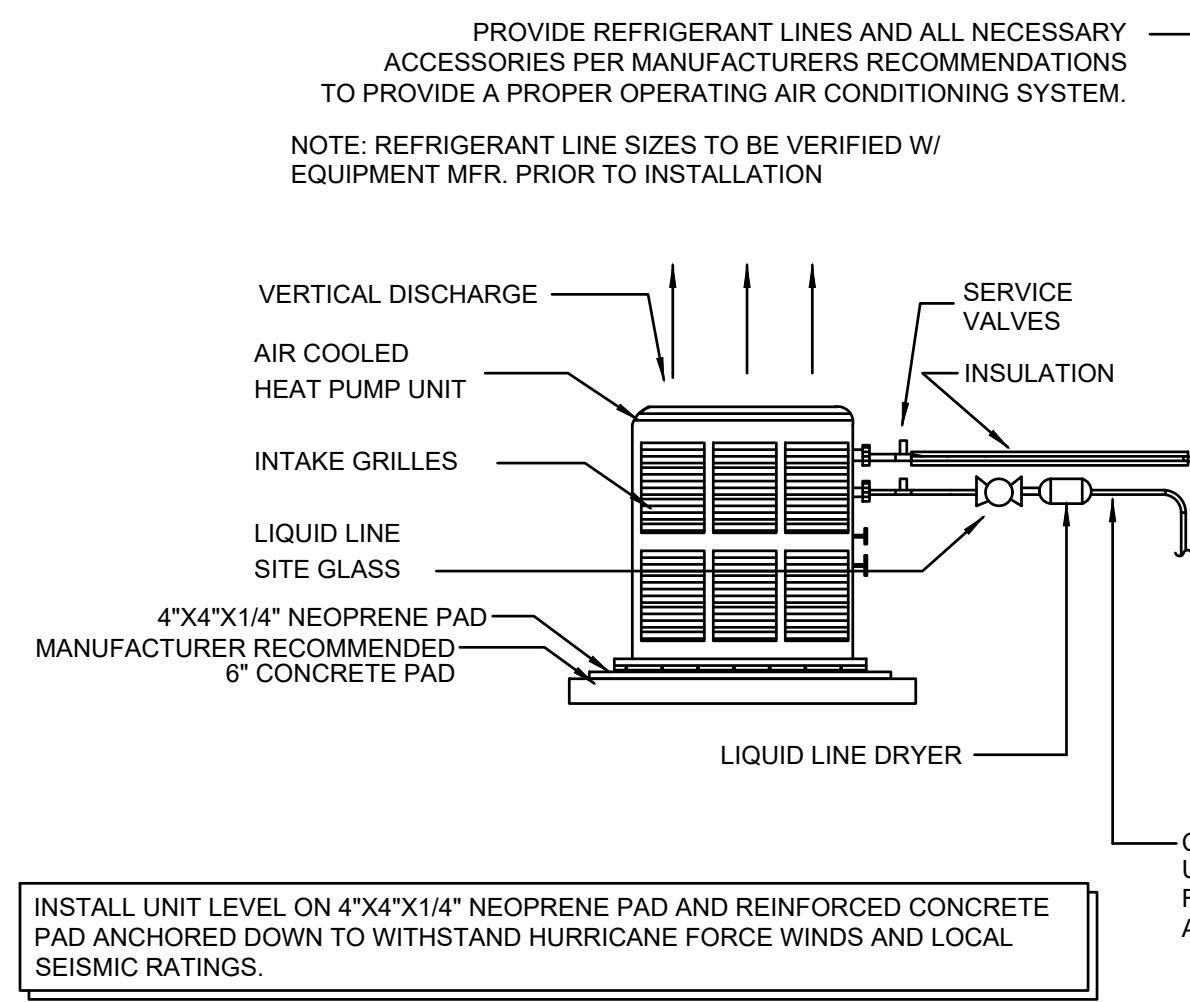


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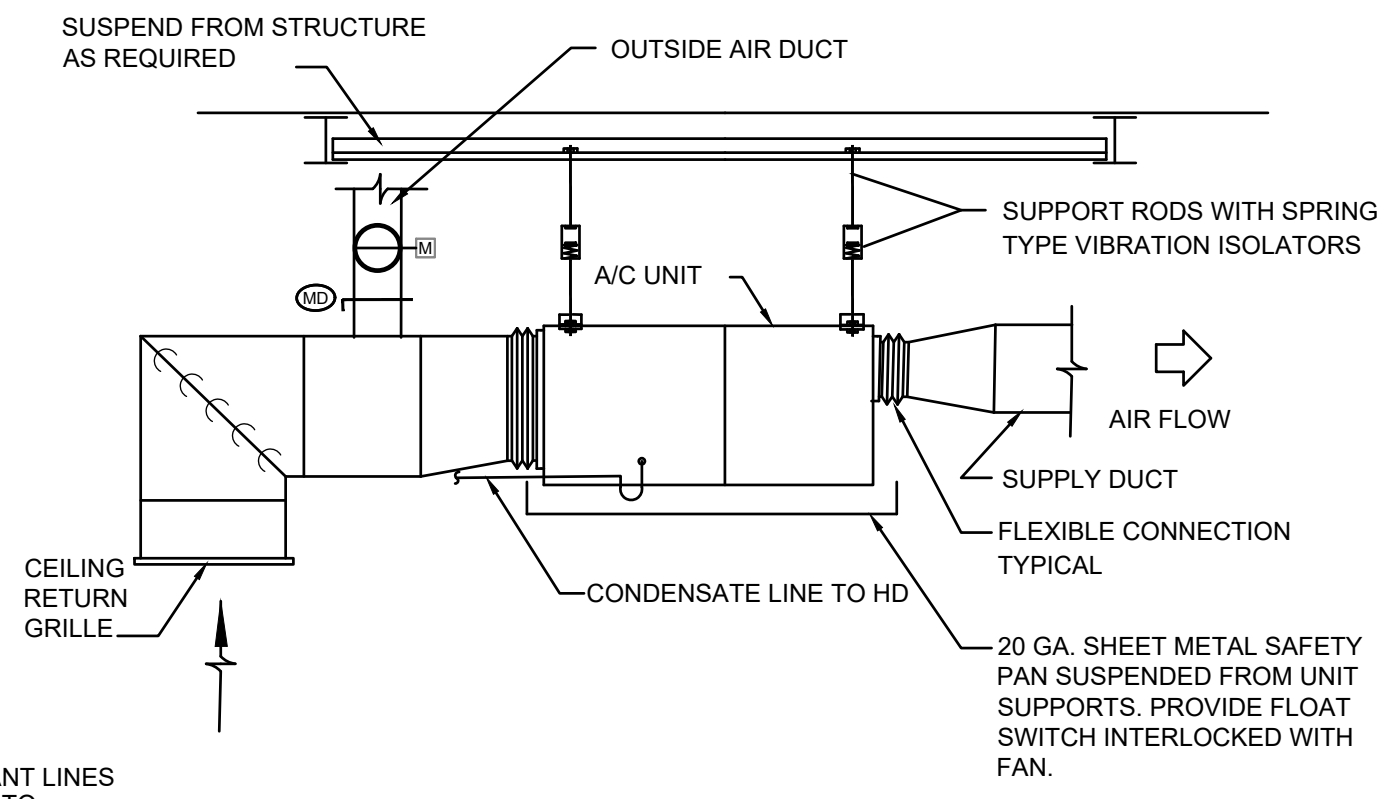
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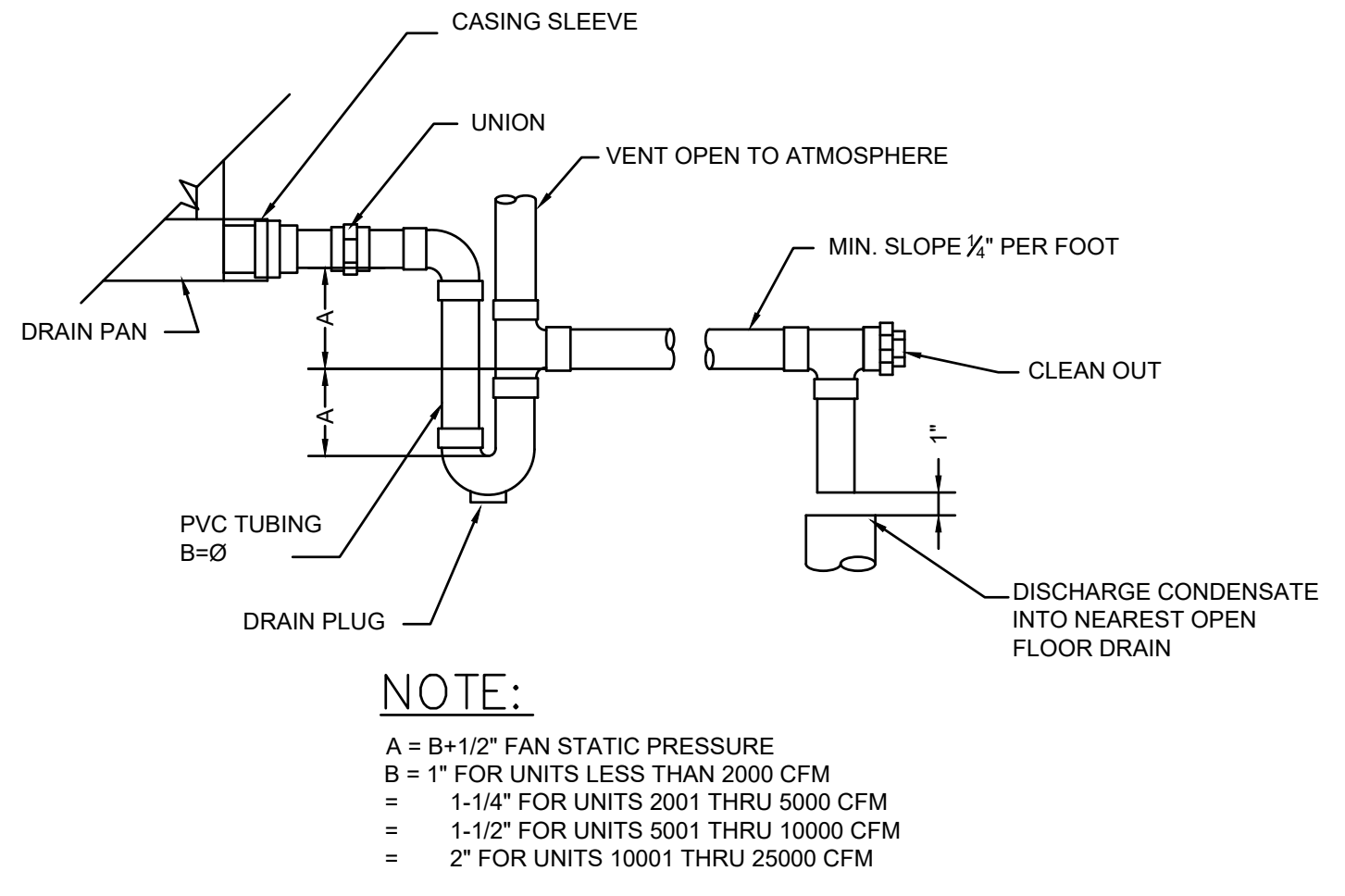
First Floor HVAC Plan



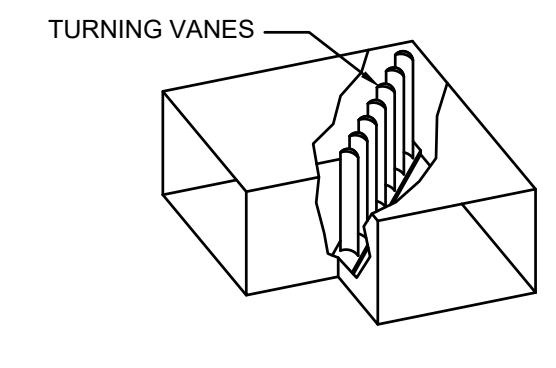
1 TYPICAL OUTDOOR UNIT DETAIL
M2.01 N.T.S



2 TYP. CEILING SUSPENDED AHU DETAIL
M2.01 N.T.S

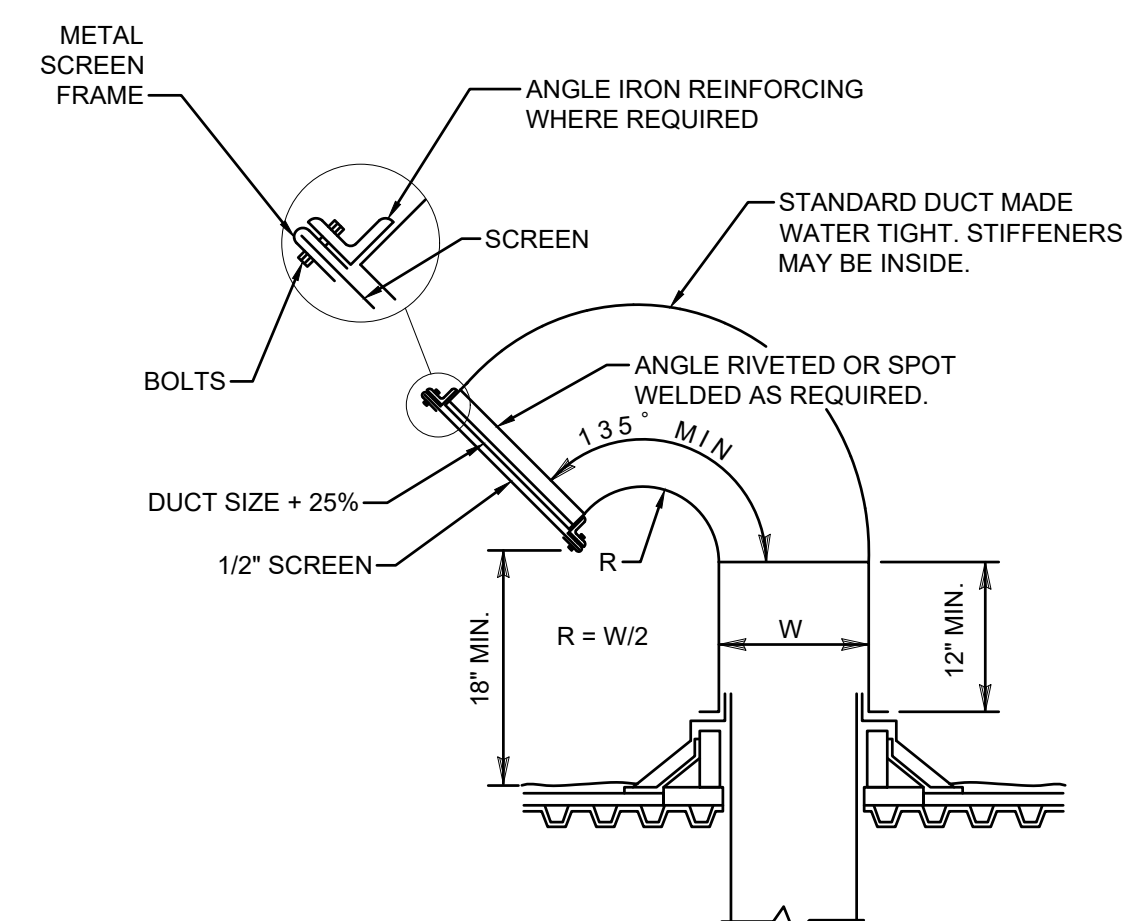


3 CONDENSATE DRAIN DETAIL
M2.01 N.T.S

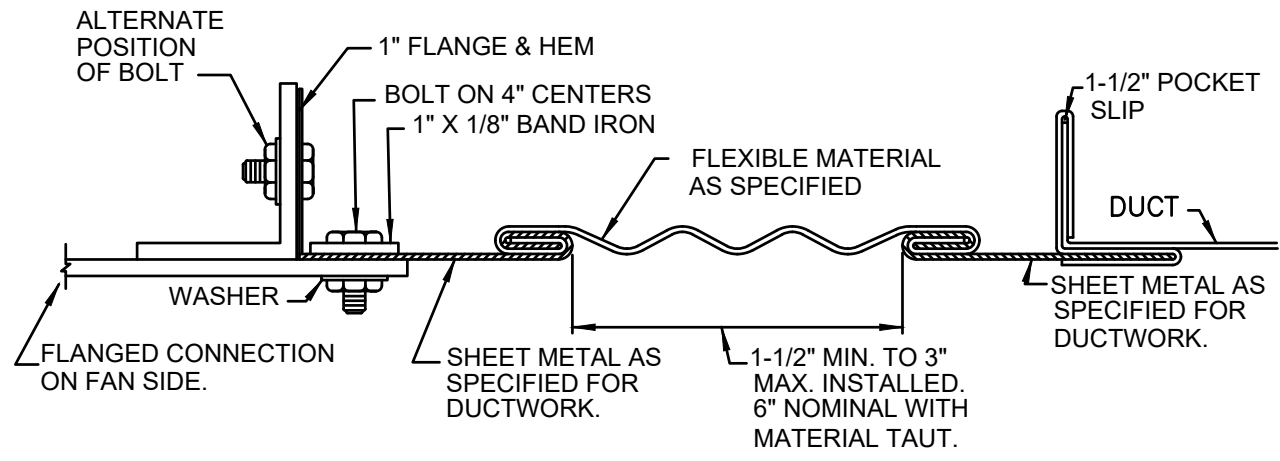


- NOTE:
1. ALL ELBOWS SHALL HAVE TURNING VANES.
 2. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 3. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 4. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
 5. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.

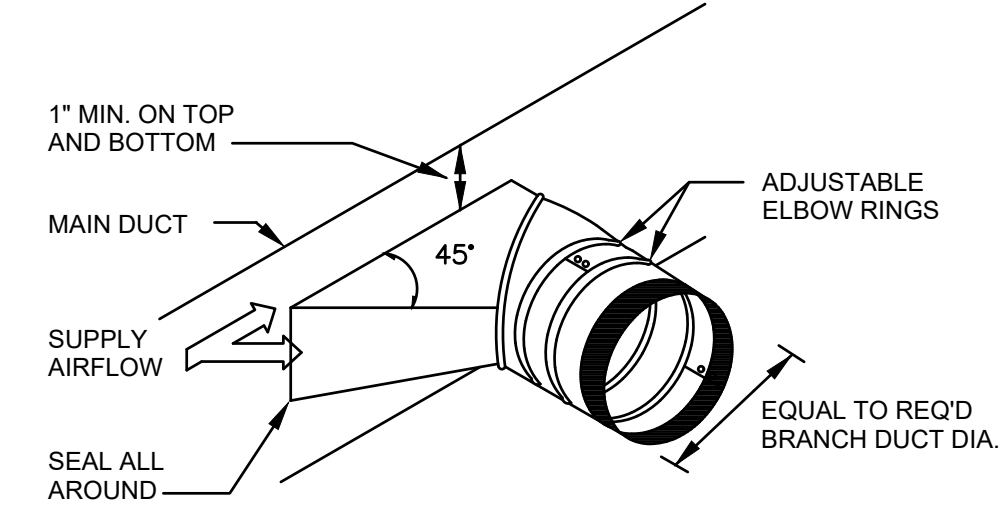
4 TURNING VANE DETAIL
M2.01 N.T.S



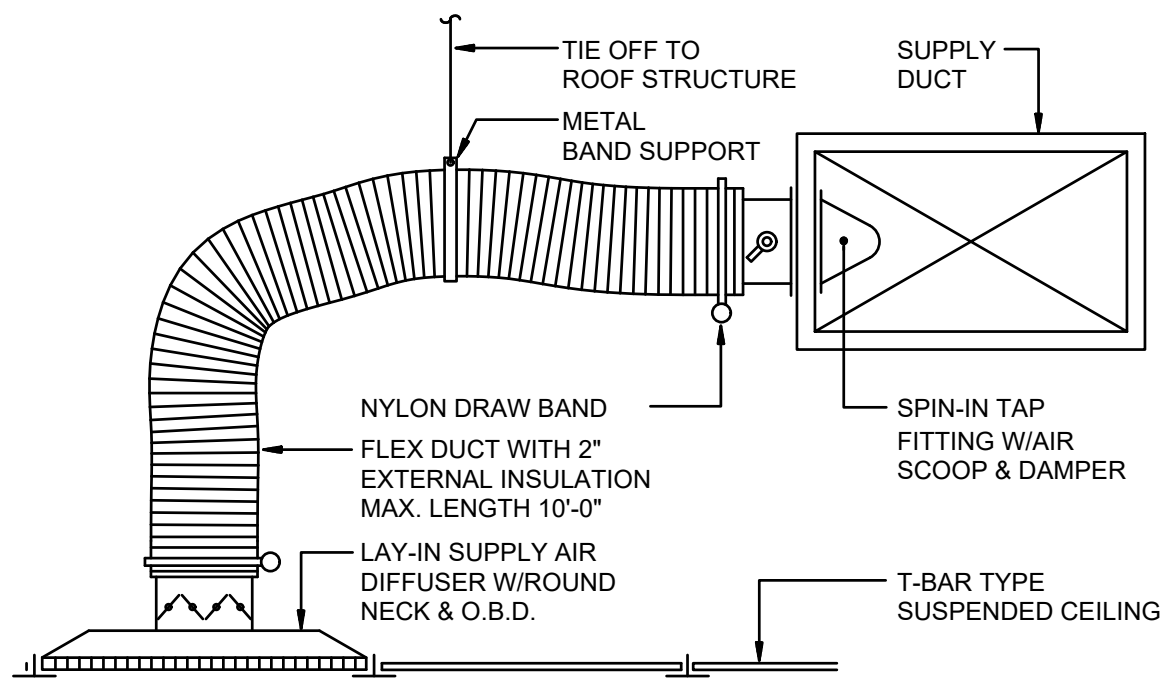
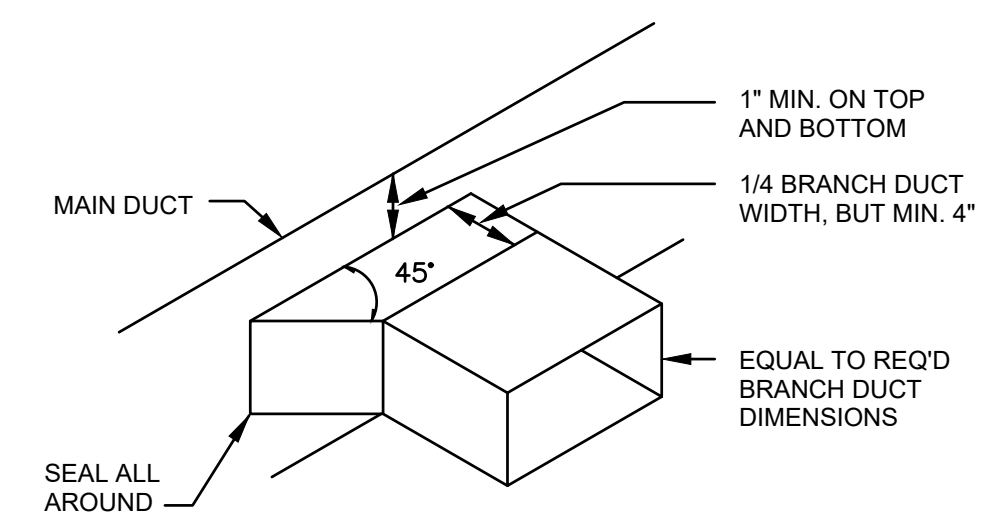
5 GOOSENECK
M2.01 N.T.S



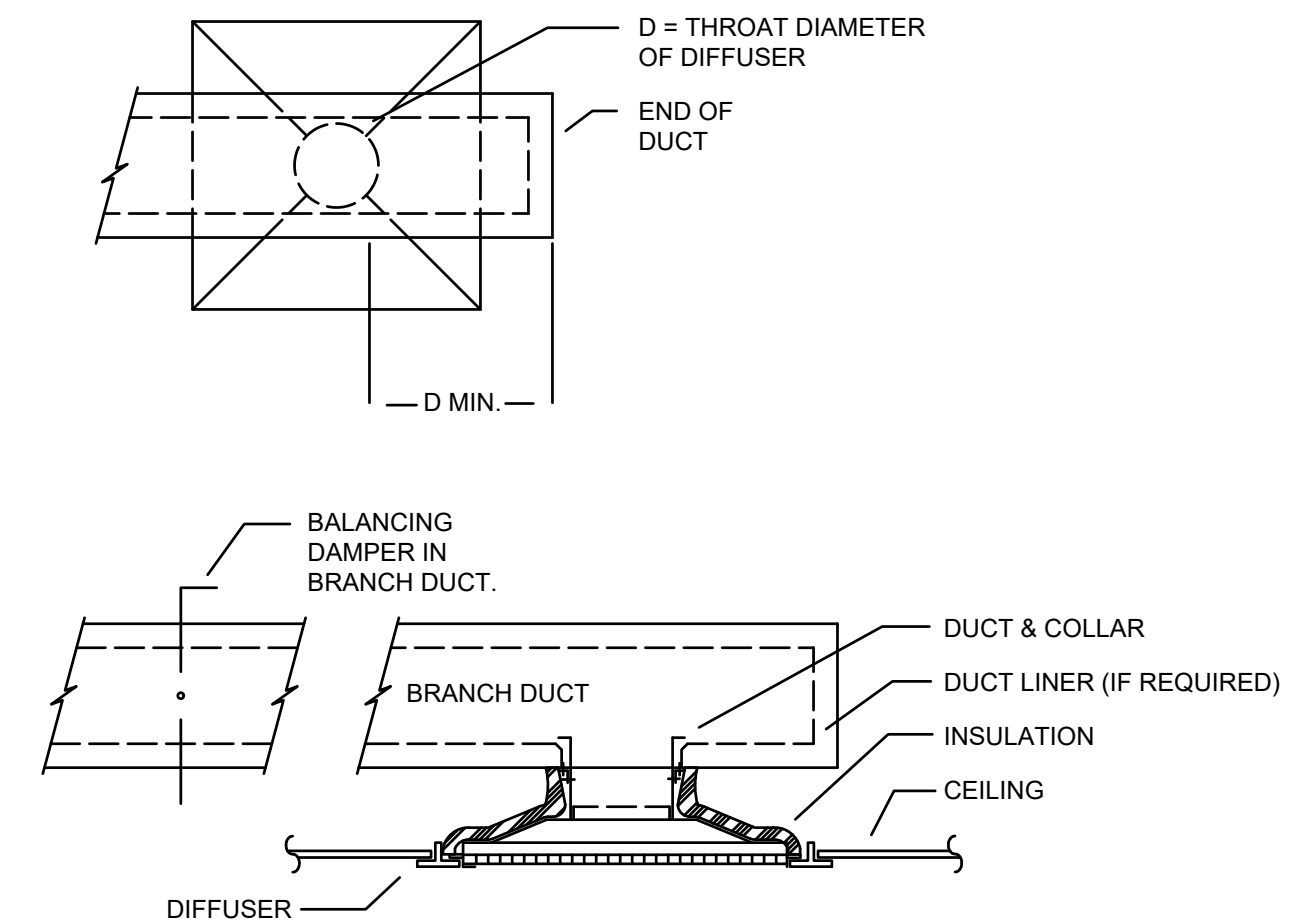
6 RECTANGLE DUCT FLEX CONNECTION
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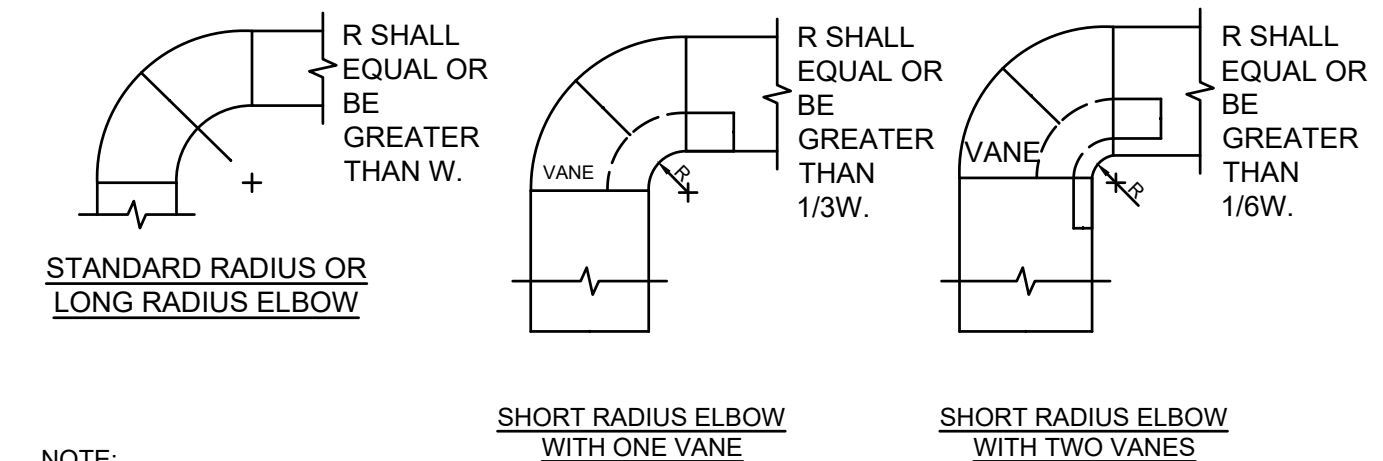
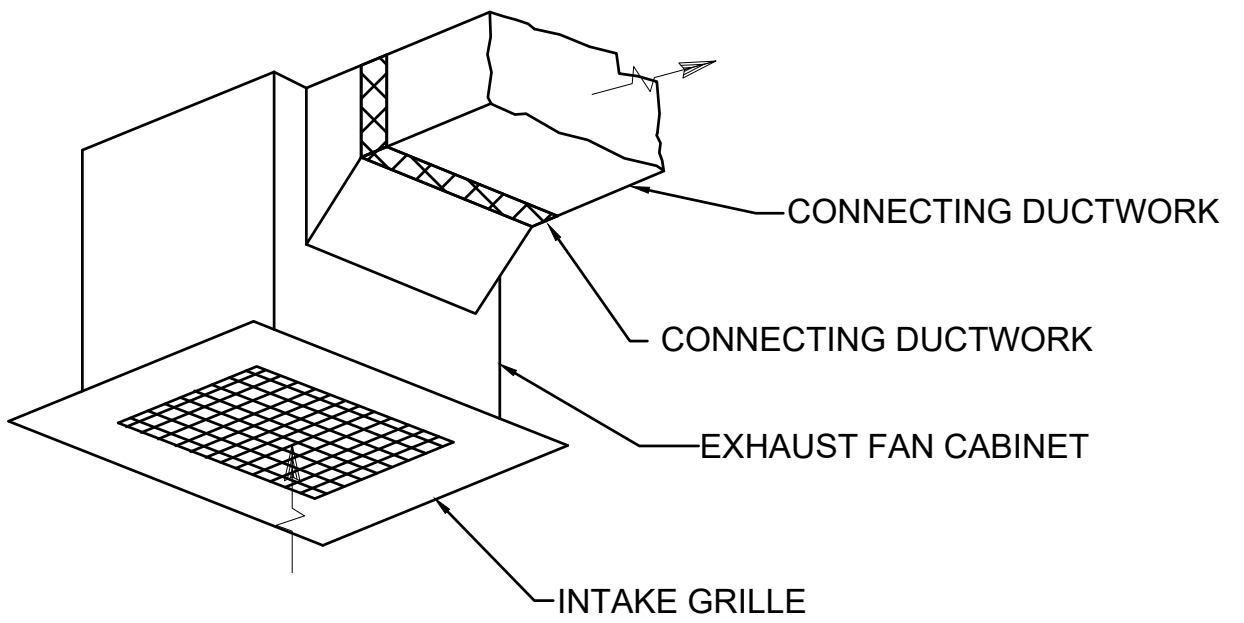
7 TYPICAL BRANCH TAKE-OFF FITTING
M2.01 N.T.S



8 TYPICAL SUPPLY AIR DIFFUSER DETAIL
M2.01 N.T.S



9 CEILING EXHAUST FAN DETAIL
M2.01 N.T.S

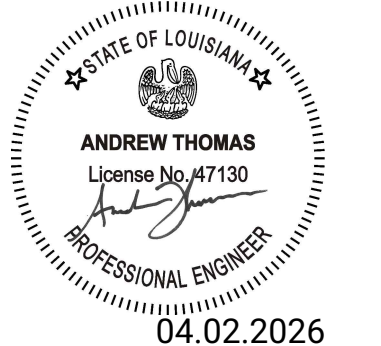


- NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

10 DUCT RADIUS ELBOW DETAIL
M2.01 N.T.S

Terrytown Laundromat

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HVAC Details

PLUMBING GENERAL NOTES	
1. MATERIALS, EQUIPMENT, AND SYSTEMS SHALL MEET ALL PERTINENT REQUIREMENTS OF THE UNDERWRITERS LABORATORY (UL), THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM), THE 2021 INTERNATIONAL PLUMBING CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE, 2021 INTERNATIONAL MECHANICAL CODE, AMERICAN WATER WORKS ASSOCIATION (AWWA), ALL NFPA CODES AND STANDARDS, NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES OF JEFFERSON PARISH WHICH MAY BE IN EFFECT.	27. ALL OPENINGS FOR WASTE, VENT AND OTHER PIPES SHALL BE SEALED WITH ACOUSTIC SEALANT TO PREVENT TRANSMISSION OF SOUND BETWEEN FLOORS AND ROOMS. ALL FLOOR-MOUNTED FIXTURES SHALL BE SET ON NEOPRENE ISOLATORS.
2. BIDDERS SHALL BE LICENSED CONTRACTORS IN ACCORDANCE WITH LOCAL AND STATE LAWS.	28. ALL PIPES THAT PENETRATE FIRED RATED PARTITIONS OR FLOORS SHALL HAVE THE ANNULAR SPACE SEALED WITH FIRE STOP SEALANT.
3. BIDDERS SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THEY SHALL EXAMINE ALL SERVICES, EQUIPMENT, SURFACES, ETC., WHICH THIS WORK IS IN ANY WAY DEPENDENT UPON, AND BRING ANY DISCREPANCIES DETERMINED OR OMISSIONS FOUND IN THE DRAWINGS TO THE OWNER'S ATTENTION BEFORE SUBMITTING BID.	29. ALL DOMESTIC WATER PIPING, VENT PIPING AND GAS PIPING SHALL RUN ABOVE CEILING, UON. ALL SANITARY AND STORM PIPING SHALL BE RUN UNDER THE FLOOR, UON.
4. ALL INSTALLED SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED IN PLACE ON SITE. REPLACE ANY AND ALL CONTRACTOR SUPPLIED DEFECTIVE DEVICES, ITEMS OR SYSTEMS AT CONTRACTOR'S OWN EXPENSE BEFORE COMPLETION OF THE PROJECT.	30. NO HOT AND COLD WATER SUPPLY PIPING SHALL BE RUN ON COLD SIDE OF INSULATION IN OUTSIDE WALLS, CRAWL SPACE, ATTIC, OR OTHER UNHEATED SPACE.
5. CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERRECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLING MANUFACTURER'S GUARANTEED EQUIPMENT. THIS CONTRACTOR'S GUARANTEE SHALL EXIST FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO DEFECTS IN MATERIAL AND TO DEFECTIVE WORKMANSHIP OF ANY KIND.	31. ALL COLD WATER SUPPLY PIPING (ALL SIZES), AND ALL HOT WATER SUPPLY PIPING 1-1/4" AND SMALLER, SHALL BE INSULATED WITH A MINIMUM 1" THICK FIBERGLASS PIPE INSULATION, WITH ALL SERVICE JACKET AND SEALED SEAMS. ALL HOT WATER SUPPLY PIPING 1-1/2" AND LARGER SHALL BE INSULATED WITH A MINIMUM 1-1/2" THICK FIBERGLASS PIPE INSULATION, WITH ALL SERVICE JACKET AND SEALED SEAMS. PROVIDE AND INSTALL TRAP/WRAP ADA COMPLIANT, VINYL COATED WITH STANDARD WHITE FINISH, FOAM INSULATION ON ALL EXPOSED PLUMBING WASTE AND SUPPLY CONNECTORS UNDERNEATH ALL PUBLIC LAVATORIES. ALL INTERIOR HORIZONTAL AND VERTICAL STORM PIPING, ABOVE SLAB, SHALL BE INSULATED WITH 1" OWENS CORNING SSL-II FIBERGLASS MINIMUM.
6. THE SYSTEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED TO SERVE ALL FIXTURES, EQUIPMENT, AND AREAS WITHIN THE CONTRACT LIMIT LINES AS SET FORTH BY THE ARCHITECTURAL SOLUTION FOR THE PROJECT. SYSTEMS SHALL INCLUDE ALL EQUIPMENT, APPURTENANCES, SAFETY DEVICES, AND CONTROLS NECESSARY FOR THE INTENDED SERVICE.	32. ALL WALL HYDRANTS SHALL BE FREEZE-PROOF WITH BUILT-IN VACUUM BREAKER, UON.
7. ALL PERMITS AND FEES REQUIRED FOR THE WORK SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR AND INCLUDED IN BID PRICE.	33. ALL HORIZONTAL BRANCHES AND VENTS 3" IN DIAMETER AND OVER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM, UNLESS OTHERWISE NOTED. ALL HORIZONTAL BRANCHES AND VENTS UNDER 3" IN DIAMETER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, UNLESS OTHERWISE NOTED (UON).
8. ANYTHING DRAWN OR SPECIFIED ON THESE PLANS SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY LOCAL, MUNICIPAL OR STATE LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY PLUMBING OR RELATED WORK, WHERE ANY PORTION OF THE SYSTEMS ARE NOT INSTALLED AS IN ACCORDANCE WITH APPLICABLE LAWS, ORDINANCES, REGULATIONS AND CODES. THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER APPROVED BY THE OWNER AND WITHOUT ADDITIONAL COST TO THE OWNER.	34. ENSURE INCOMING FUEL AND GAS LINE TO REGULATOR(S) ADHERE TO 2021 IFGC, LOCAL BUILDING CODES, AND CITY ORDINANCES. COORDINATE CLEARANCE DISTANCES FROM BUILDING COMPONENTS TO ENSURE A SAFE AND PROPER FUNCTIONING SYSTEM.
9. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.	
10. ALL EQUIPMENT AND FIXTURES SHALL BE NEW AND UNUSED AND INSTALLED IN STRICT CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE FIXTURES COMPLETE WITH ALL TRIM, STOPS, HANGERS, CARRIERS, SUPPORTS, ETC. INCLUDING PROVISION FOR THE HANDICAPPED, IF REQUIRED. WHERE FIXTURES ARE ACCESSIBLE TO THE HANDICAPPED, FIXTURES MUST COMPLY WITH ALL FEDERAL ADA REGULATIONS.	
11. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS TO ALLOW FOR PLUMBING INSTALLATIONS. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF PLUMBING EQUIPMENT AND MATERIALS.	
12. DO NOT ENDANGER OR DAMAGE INSTALLED WORK THROUGH PROCEDURES AND PROCESSES OF CUTTING AND PATCHING. PROVIDE REPAIRS REQUIRED TO RESTORE OTHER WORK, BECAUSE OF DAMAGE CAUSED AS A RESULT OF PLUMBING INSTALLATIONS.	
13. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED IN PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.	
14. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF PLUMBING MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING-IN THE BUILDING.	
15. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL PLUMBING SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.	
16. INSTALL PLUMBING EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS, AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.	
17. COORDINATE THE INSTALLATION OF PLUMBING MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, LIGHT FIXTURES, DUCTWORK, CONDUIT, AND OTHER INSTALLATIONS. COORDINATE PLUMBING EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS.	
18. ALL PIPES SHALL BE OF THE SIZE GIVEN ON THE DRAWINGS. ALL PIPING SHALL BE RUN TRUE TO LINE. PIPES MAY BE MOVED, IF NECESSARY FOR INSTALLATION, PROVIDED THAT THE NATURE OF THE SYSTEM IS NOT CHANGED. ALL PIPES SHALL BE CONCEALED, LOCATED ABOVE CEILING, BELOW FLOOR OR IN WALLS, EXCEPT WHERE CONNECTION IS MADE TO FIXTURE.	
19. COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. COMPLY WITH REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES, AND CONTROLLING AGENCIES. PROVIDE REQUIRED CONNECTION FOR EACH SERVICE.	
20. PLUMBING SERVICE ROUGH-IN SHALL BE BASED ON INFORMATION, DRAWINGS, EQUIPMENT CUTS, ETC. PREPARED BY THE EQUIPMENT SUPPLIER. FINAL PLUMBING CONNECTIONS SHALL BE MADE FROM ROUGH-IN TO EQUIPMENT AFTER EQUIPMENT IS SET IN PLACE.	
21. ACTUAL LOCATIONS AND MOUNTING METHODS FOR FIXTURES AND PENETRATIONS ARE SUBJECT TO ARCHITECT'S APPROVAL. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.	
22. ALL PIPES, PUMPS, CONTROL DEVICES, FIRE PROTECTION, AND MISCELLANEOUS APPARATUS SHALL BE CLEARLY MARKED FOR EASY IDENTIFICATION AND SAFETY. USE BLACK PLASTIC OR BAKELITE NAME PLATE ENGRAVED WITH WHITE LETTERS 1/4" HIGH. PUNCHED TAPE IS NOT ACCEPTABLE.	
23. THE HOT AND COLD WATER SUPPLY LINE BRANCHES FOR ALL LAVATORIES, SINKS, SHOWERS, TUBS, AND HOSE BIBBS SHALL HAVE JOSAM, ZURN, OR EQUAL WATER HAMMER ARRESTERS INSTALLED ON THE HIGH POINT AT THE END OF EACH BRANCH LINE.	
24. ALL ABOVE-GROUND WATER SUPPLY PIPING SHALL BE TYPE "L" RIGID COPPER. ALL BELOW GRADE WATER SUPPLY PIPING SHALL BE TYPE "K" SOFT COPPER WITH AT LEAST 50' BETWEEN JOINTS. ALL JOINTS SHALL BE SOLDERED WITH "LEAD-FREE" SOLDER (E.G., 95-5).	
25. FLUSH AND STERILIZE WATER SYSTEM AFTER CONNECTIONS ARE MADE IN ACCORDANCE WITH LOCAL REGULATIONS.	
26. ALL SANITARY WASTE PIPING BELOW SLAB SHALL BE CAST-IRON OR PVC. ALL ABOVE GRADE SANITARY WASTE AND VENT PIPING SHALL BE CAST-IRON. REFER TO TABLES 702.1 & 702.2 OF 2021 IPC FOR MATERIALS & STANDARDS.	

PLUMBING LEGEND	
	GREASE WASTE
	WASTE
	VENT
	COLD WATER LINE
	HOT WATER LINE
	STORM DRAIN
	STORM DRAIN OVERFLOW
	BALL VALVE
	WALL HYDRANT
	PIPE UP
	PIPE DOWN
	ABOVE FINISHED FLOOR
	AIR ADMITTANCE VALVE
	AREA DRAIN
	BACK FLOW PREVENTER
	BATH TUB
	CLEAN OUT
	CONDENSATE
	COLD WATER
	DISHWASHER
	EXISTING TO REMAIN
	ELECTRIC WATER HEATER
	FLOOR DRAIN
	FIRE DEPARTMENT CONNECTION
	FLOOR CLEAN OUT
	GENERAL CONTRACTOR
	GREASE TRAP
	GREASE WASTE
	HUB DRAIN (HVAC)
	HOT WATER
	KITCHEN SINK
	LAVATORY
	MECHANICAL CONTRACTOR
	MOP BASIN
	OVERFLOW ROOF DRAIN
	OVERFLOW ROOF
	PRESSURE RELIEF LINE
	REFRIGERATOR BOX
	ROOF DRAIN
	RAIN LEADER
	SHOWER
	STORM DRAIN
	STORM DRAIN OVERFLOW
	UNLESS OTHERWISE NOTED
	VENT
	VENT TO ROOF
	WASTE
	WATER CLOSET
	WALL CLEANOUT
	WASHING MACHINE BOX
	WATER HEATER

PLUMBING FIXTURE SCHEDULE										
ID	FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	DFU	SFU	DESCRIPTION (AMERICAN STANDARD FIXTURE EXCEPT AS NOTED)	ADA	
MS	MOP SINK	3"	2-1/2"	1/2"	1/2"	3	4	ZURN #Z1996-24; MOP SERVICE BASIN 24 X 24 X 10 MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND 3 GASKETED OUTLET CONNECTION. CERTIFICATIONS: MEETS ANSI Z124.6, CSA LISTED, AND IAPMO LISTED UNDER FILE # 3561		
WCO	WALL CLEANOUT	--	--	--	--	--	--	JOSAM #58900; WALL CLEANOUT WITH SMOOTH ACCESS COVER. CAULKING FERRULE WITH BRASS RAISED HEAD PLUG, POLISHED NICKALOY OR STAINLESS STEEL COVER PLATE SECURED WITH S.S. SCREW.		
FCO	FLOOR CLEAN OUT	--	--	--	--	--	--	JOSAM #55000-SS; ADJUSTABLE CLEANOUT C.I. BODY WITH BRONZE PLUG, ADJUSTABLE HOUSING, POLISHED STAINLESS STEEL TOP. PROVIDE ALL ACCESSORIES SO FLOOR DRAINS ARE INSTALLED FLUSH WITH FINISH FLOORS AND ARE NOT A TRIP HAZARD. VERIFY FINISH FLOOR TYPE BEFORE ORDERING INCLUDING AND NOT LIMITED TO CARPET, CERAMIC TILE, VINYL TILE AND CONCRETE (INDOORS AND OUTDOORS).		
FD	FLOOR DRAIN	2"	2"	--	--	3	--	JOSAM #3000A; CAST IRON FLOOR DRAIN TWO PIECE, ADJUSTABLE ROUND SATIN NICKALOY STRAINER, 1/2" TRAP PRIMER TAP, INSIDE CAULK. PROVIDE ZURN Z1022 TRAP PRIMER OR SLOAN VBF-72-A TRAP PRIMER. VERIFY FINISH FLOOR TYPE BEFORE ORDERING INCLUDING AND NOT LIMITED TO CARPET, CERAMIC TILE, VINYL TILE AND CONCRETE (INDOORS AND OUTDOORS).		
WC	WATER CLOSET	3"	2"	1/2"	-	4	10	PROFLO PF1705HEWH; PROFLO HIGH-EFFICIENCY TOILET BOWL (PF1705HEWH), A COMPATIBLE PROFLO TOILET SEAT (PFTSCOF2000WH), AND AN AMERICAN STANDARD FLUSH VALVE (6047.121.002). SYSTEM REQUIRES A SEPARATE WALL CARRIER FOR INSTALLATION. THE ENTIRE SYSTEM IS DESIGNED TO BE ADA COMPLIANT WHEN INSTALLED AT THE CORRECT HEIGHT, AND ITS COMPONENTS MEET ASSE 1037 AND ANS/ASME 112.19.2 STANDARDS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.		
LAV	LAVATORY	2"	1-1/2"	1/2"	1/2"	1	2	VERGE WITH WASHBAR TECHNOLOGY - LVQ2 SERIES #LVQ2; COORDINATE COUNTER WIDTH WITH ARCHITECTURAL DRAWINGS. SHALL MEET ADA REQUIREMENTS.		
HD	HUB DRAIN	3"	2-1/2"	--	--	2	--	ZURN MODEL #Z115E; CAST IRON FLOOR DRAIN WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE SEAT (PFTSCOF2000WH), AND AN AMERICAN STANDARD FLUSH VALVE (6047.121.002). SYSTEM REQUIRES A SEPARATE WALL CARRIER FOR INSTALLATION. THE ENTIRE SYSTEM IS DESIGNED TO BE ADA COMPLIANT WHEN INSTALLED AT THE CORRECT HEIGHT, AND ITS COMPONENTS MEET ASSE 1037 AND ANS/ASME 112.19.2 STANDARDS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.		
HS / WS	HAND SINK / WASH SINK	2"	2"	1/2"	1/2"	2	--	PROFLO #PF5514/PF5518; WALL-HUNG, 4-INCH CENTERSET, THREE HOLE CONFIGURATION, WHITE FINISH, WALL-MOUNTED, COMPLIANT WITH ASME/ANSI A112.19.2M STANDARDS, ADA COMPLIANT, 8 INCH WIDE-SPREAD FAUCET, 1.2 GPM MAX FLOW RATE AT 60 PSI, ASME A112.18.2 COMPLIANT.		
-	TRAP PRIMER	--	--	--	--	--	--	JOSAM #88300; ALL BRONZE TRAP PRIMER VALVE WITH 1/2" N.P.T. INLET, INTEGRAL BACKFLOW PREVENTER, VACUUM BREAKER PORTS AND 1/2" F.N.P.T. OUTLET		
-	WATER MIXING VALVE	--	--	1/2"	1/2"	--	--	LEONARD MODEL # TM-186-1520A-RF-S-TL; LARGE THERMOSTATIC MIXING VALVE, ADJUSTABLE HIGH TEMPERATURE STOP, INLET CHECK STOPS, WALL SUPPORT, OUTLET BALL VALVES SMALL TYPE TM THERMOSTATIC WATER MIXING VALVE, INLET CHECK STOPS, LOCKING TEMPERATURE REGULATOR AND MOUNTED IN CABINET WITH DOOR AND LOCK.		

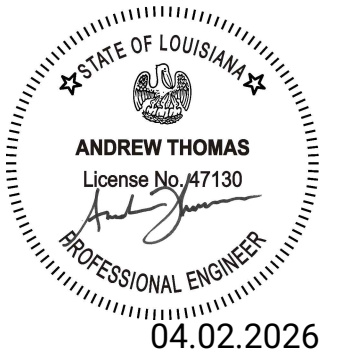
NOTES: 1. ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH AND ACCEPTED BY OWNER PRIOR TO ORDERING. FIXTURES IN SCHEDULE ARE FOR PRICING PURPOSES ONLY.

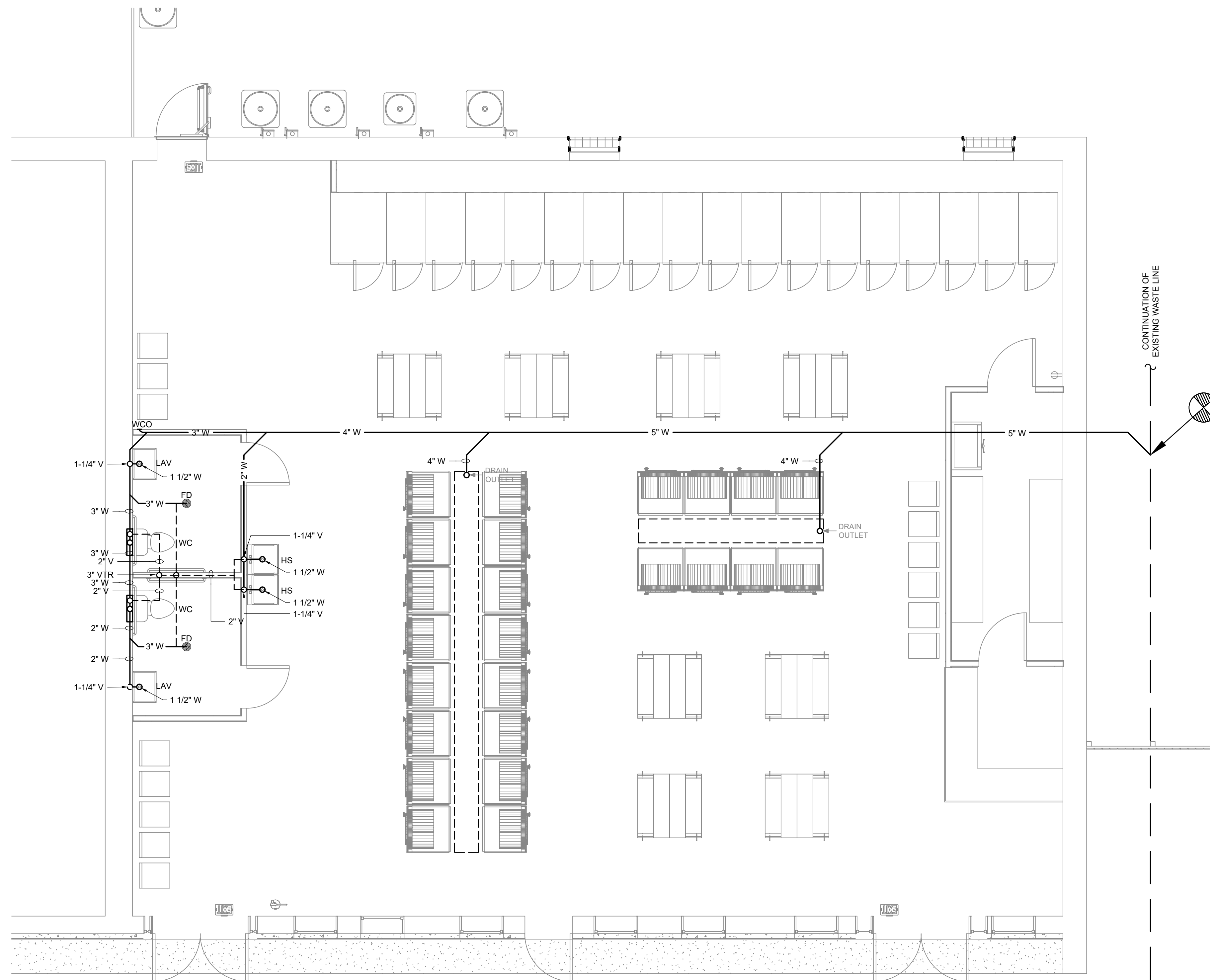
TANKLESS GAS WATER HEATER											
ID	BASIS OF DESIGN	QUANTITY	FUEL	BTU RATING	THERMAL EFFICIENCY, % / UNIFORM ENERGY FACTOR	MAX CURRENT (A) / FUSE (A)	REQUIRED VOLTAGE CONNECTION (V)	WATTS (W) NORMAL / STANDBY / FREEZE PROTECTION	SHIPPING WEIGHT LBS	DIMENSIONS	SERVES
WH-1	RINNAI: SENSEI - CXP199	4	NATURAL GAS	199,000	97% TE / 0.98 UEF	4 A / 10 A	120	98 / 1.3 / 174	58	18.5"W x 11.4"D x 30.1"H	LAUNDROMAT

- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & SPECIFICATIONS.
- UNIT SHALL BE INSTALLED TO THE EXTERIOR WALL LOCATION VIA WALL MOUNT WHERE INDICATED ON PLANS. UNIT SHALL BE SECURED TO WITHSTAND 133 MPH HURRICANE FORCE WINDS.
- WATER HEATER ACCESSORIES SHALL INCLUDE:
 - OUTDOOR VERSA-VENT CAP
 - DIGITAL DISPLAY
 - ISOLATION VALVES AND PRESSURE RELIEF VALVE (PRV) INSTALLATION KIT
 - CONDENSATE NEUTRALIZER KIT (IF REQUIRED BY AHJ OR IF CONDENSATE IS PIPED TO A DRAIN AND/OR ENVIRONMENTAL SENSITIVE AREA, I.E. SOIL, VEGETATION, OR GROUNDWATER).
 - TEMPERATURE PRESSURE RELIEF VALVE PER ANSI Z21.22/CSA 4.4 STANDARDS, RATED UP TO 150 PSI AND 200,000 BTU/HR. DISCHARGE FROM THE PRESSURE RELIEF VALVE SHOULD BE PIPED TO THE GROUND OR INTO A DRAIN SYSTEM PER LOCAL CODES.

PUMP SCHEDULE											
SYMBOL	SERVICE	QTY	GPM	HEAD PRESSURE (FT)	MOTOR HP	RPM	VOLT/Hz/PH	WATTS RANGE	AMPS RANGE	BASIS OF DESIGN	DESCRIPTION
HWRP-1	HOT WATER	1	123	39	0.59	3500	208-230/60/1	17 - 440	0.19-1.96	GRUNDFOS: MAGNA3 40-120 F (N)	HOT WATER RECIRCULATION PUMP

- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & SPECIFICATIONS.
- THE HOT WATER RECIRCULATION PUMP SHALL BE CONFIGURED TO MAINTAIN A LOOP TEMPERATURE AT 140 DEGREES FAHRENHEIT.
- POINT OF USE TEMPERING: INSTALL THERMOSTATIC MIXING VALVES (TMVs) AT LAVATORIES AND HAND / WASH SINKS. TMVs FOR LAVATORIES AND HAND SINKS SHALL BE SET TO DELIVER WATER BETWEEN 100 - 110 DEGREES FAHRENHEIT TO PREVENT SCALDING.

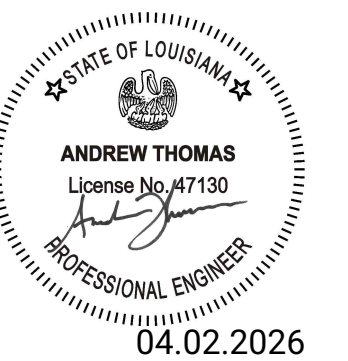




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Terrytown Laundromat

51 Holmes Blvd, Ste C, D, E
Terrytown, LA 70114

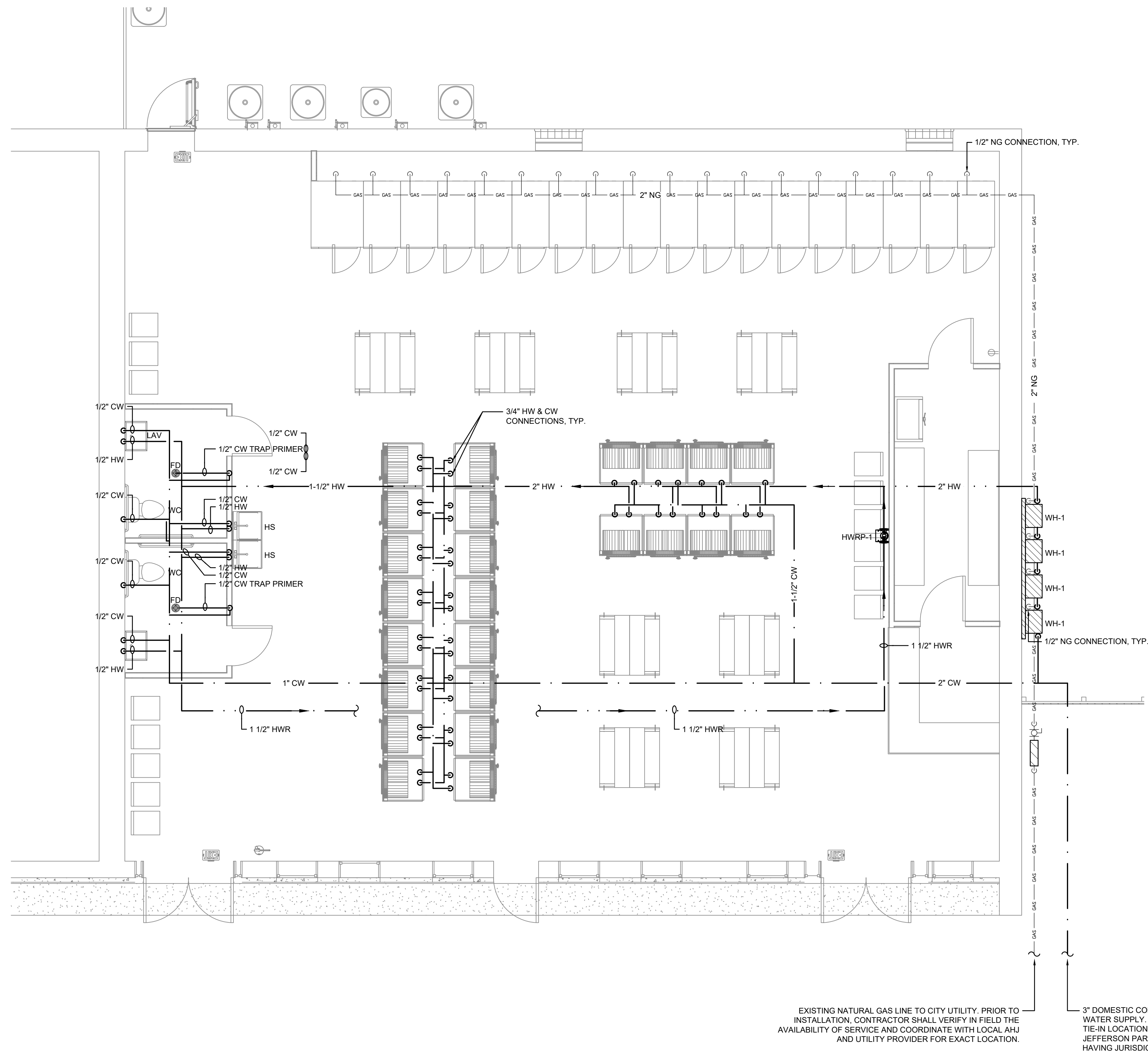


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P-1.01

First Floor Waste & Vent
Plan

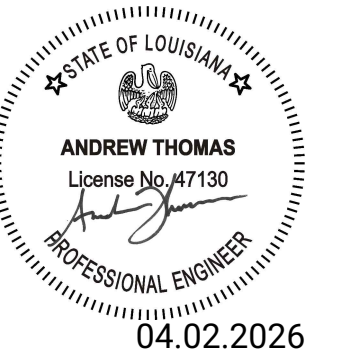


EXISTING NATURAL GAS LINE TO CITY UTILITY. PRIOR TO INSTALLATION, CONTRACTOR SHALL VERIFY IN FIELD THE AVAILABILITY OF SERVICE AND COORDINATE WITH LOCAL AHJ AND UTILITY PROVIDER FOR EXACT LOCATION.

3\"/>

Terrytown Laundromat

51 Holmes Blvd, Ste C, D, E
 Terrytown, LA 70114



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P-2.01

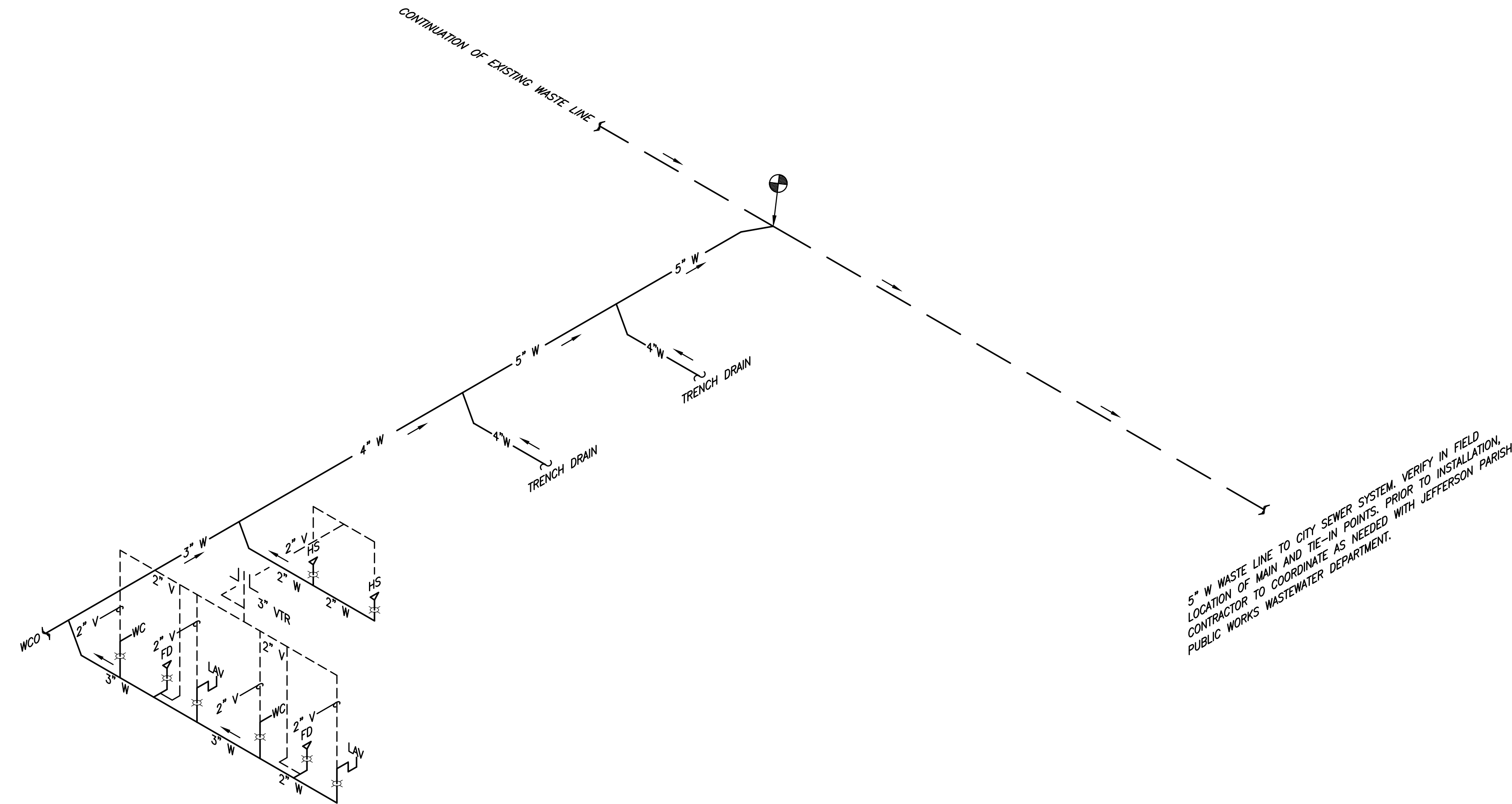
First Floor Domestic Water
 & Nat Gas Plan

MATERIALS, EQUIPMENT, AND SYSTEMS SHALL COMPLY WITH THE 2021 INTERNATIONAL PLUMBING CODE, LOUISIANA STATE UNIFORM CONSTRUCTION CODE, LOUISIANA STATE UNIFORM CONSTRUCTION CODE COUNCIL, THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE, 2021 INTERNATIONAL MECHANICAL CODE, AMERICAN WATER WORKS ASSOCIATION (AWWA), ALL NFPA CODES AND STANDARDS, NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES OF JEFFERSON PARISH WHICH MAY BE IN EFFECT.

RISERS ARE DIAGRAMMATIC. DO NOT SCALE FROM DRAWINGS.

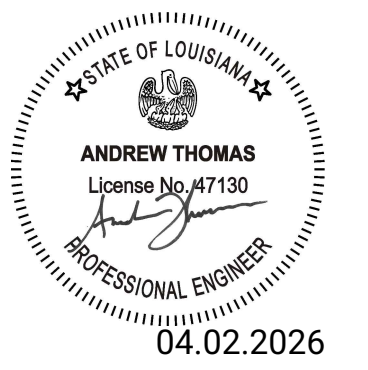
1 1/2" HORIZONTAL WASTE LINES SHALL NOT BE USED BELOW GROUND.

1 1/4" VENTS SHALL NOT BE USED BELOW GROUND.



Terrytown Laundromat

51 Holmes Blvd, Ste C, D, E
Terrytown, LA 70114

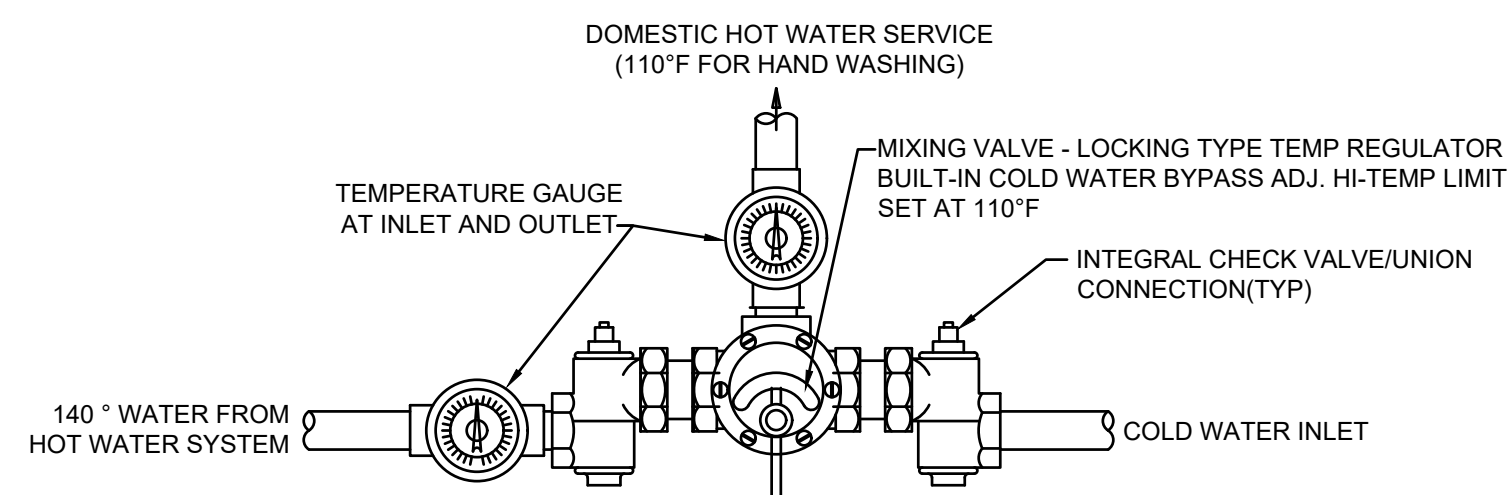


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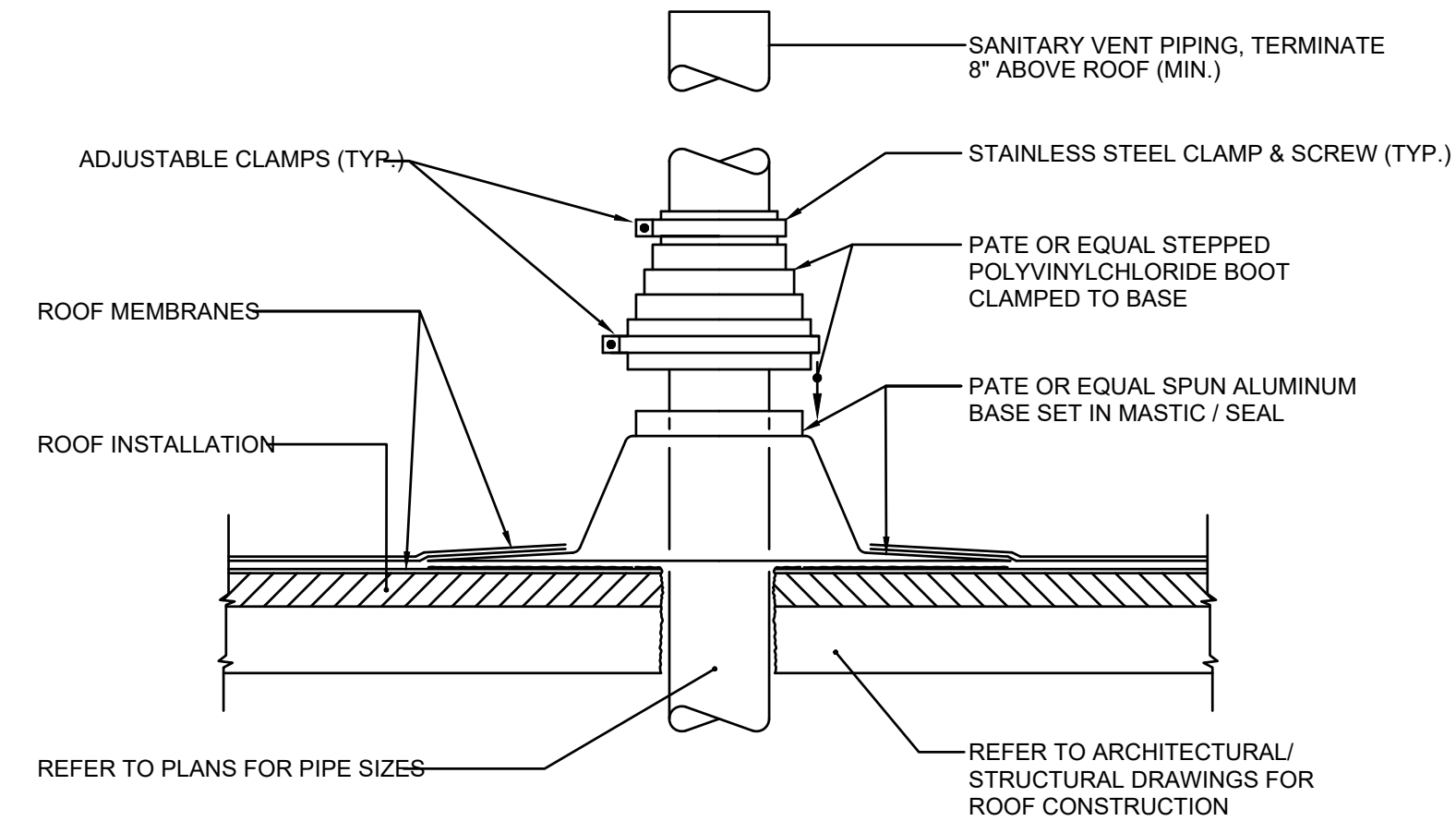
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P-3.01

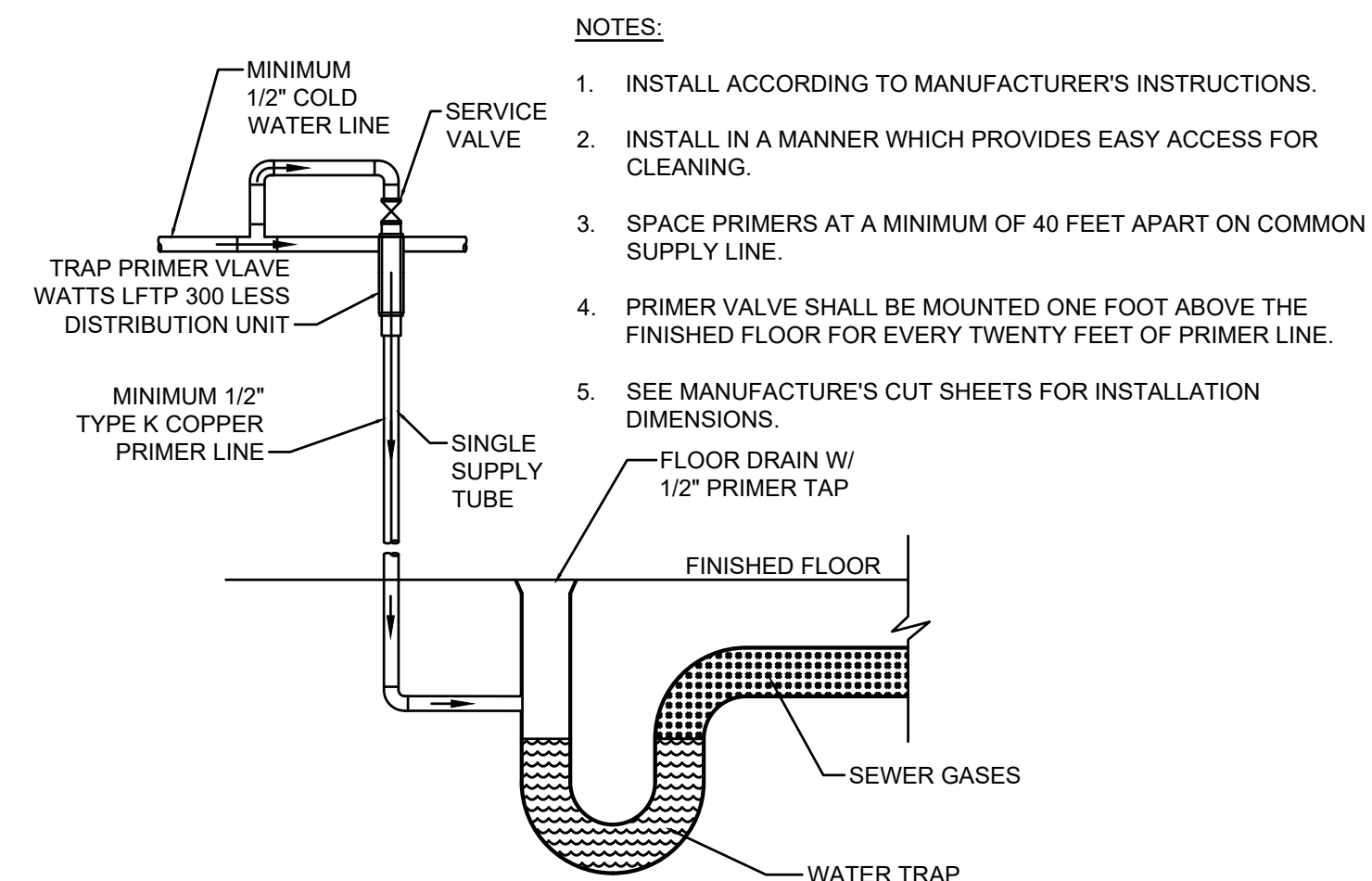
Waste & Vent Isometric
Riser Diagram



1 THERMOSTATIC MIXING VALVE
P4.01 N.T.S

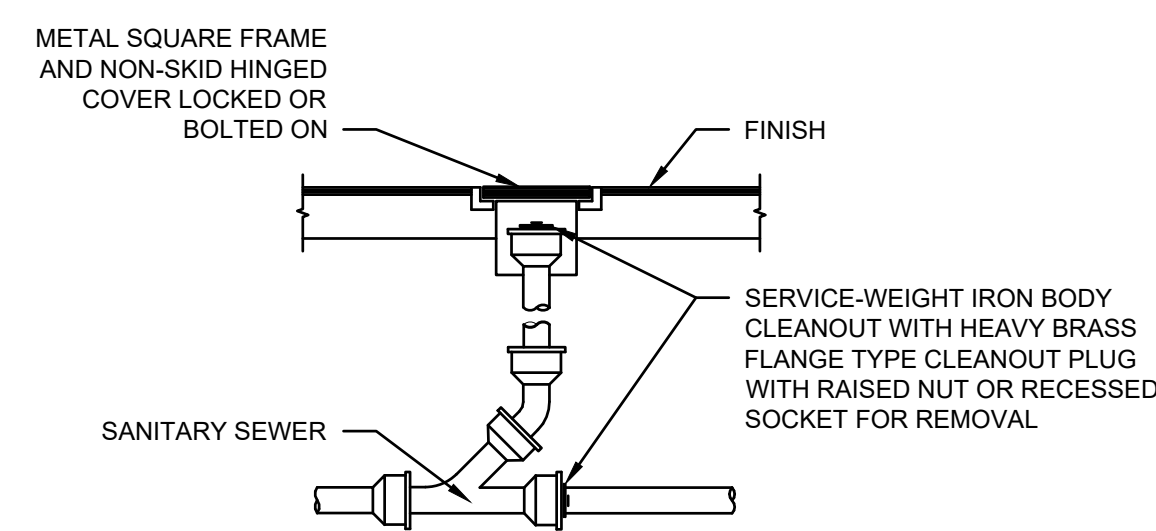


2 VENT THROUGH ROOF
P4.01 N.T.S

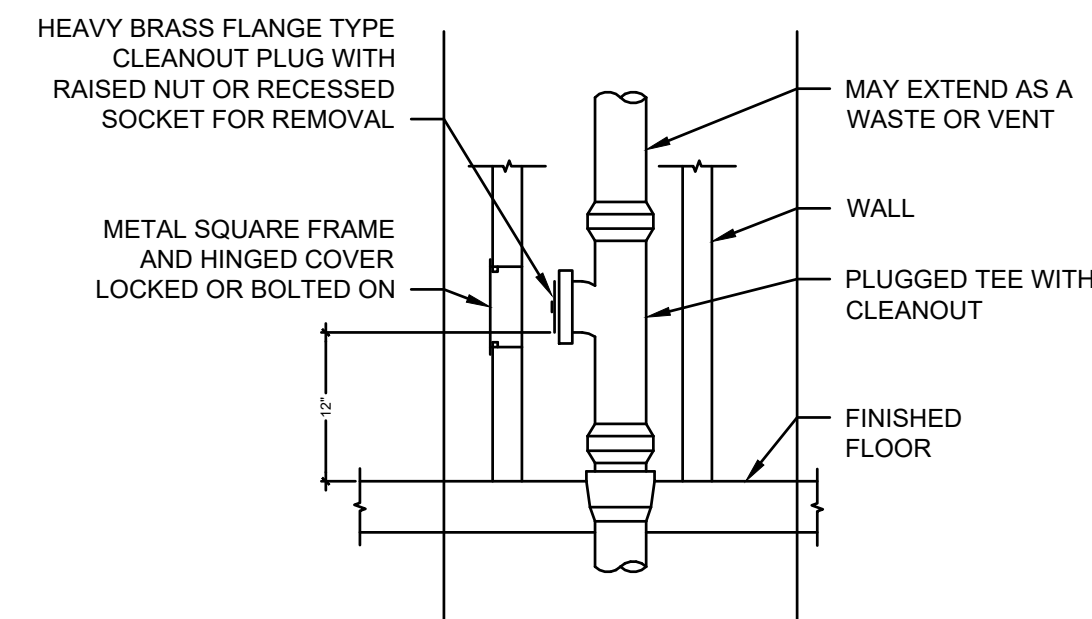


3 TRAP PRIMER
P4.01 N.T.S

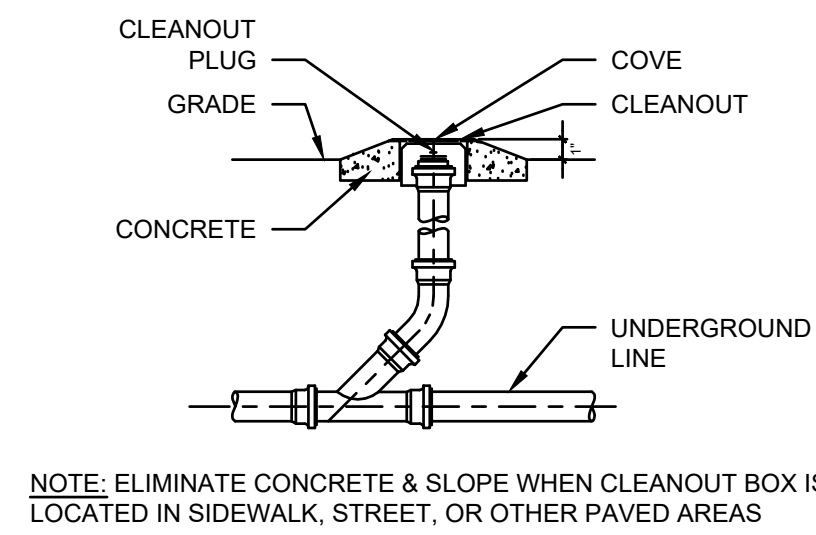
- NOTES:**
1. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 2. INSTALL IN A MANNER WHICH PROVIDES EASY ACCESS FOR CLEANING.
 3. SPACE PRIMERS AT A MINIMUM OF 40 FEET APART ON COMMON SUPPLY LINE.
 4. PRIMER VALVE SHALL BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY TWENTY FEET OF PRIMER LINE.
 5. SEE MANUFACTURE'S CUT SHEETS FOR INSTALLATION DIMENSIONS.



4 INTERIOR FLOOR CLEANOUT
P4.01 N.T.S

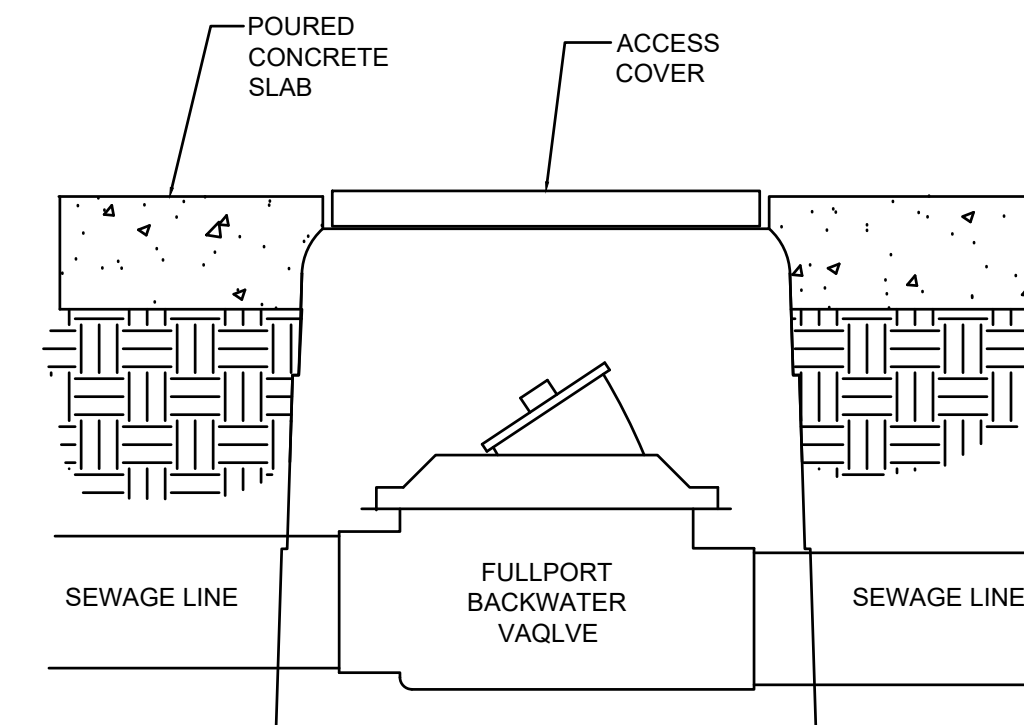


5 INTERIOR WALL CLEANOUT
P4.01 N.T.S

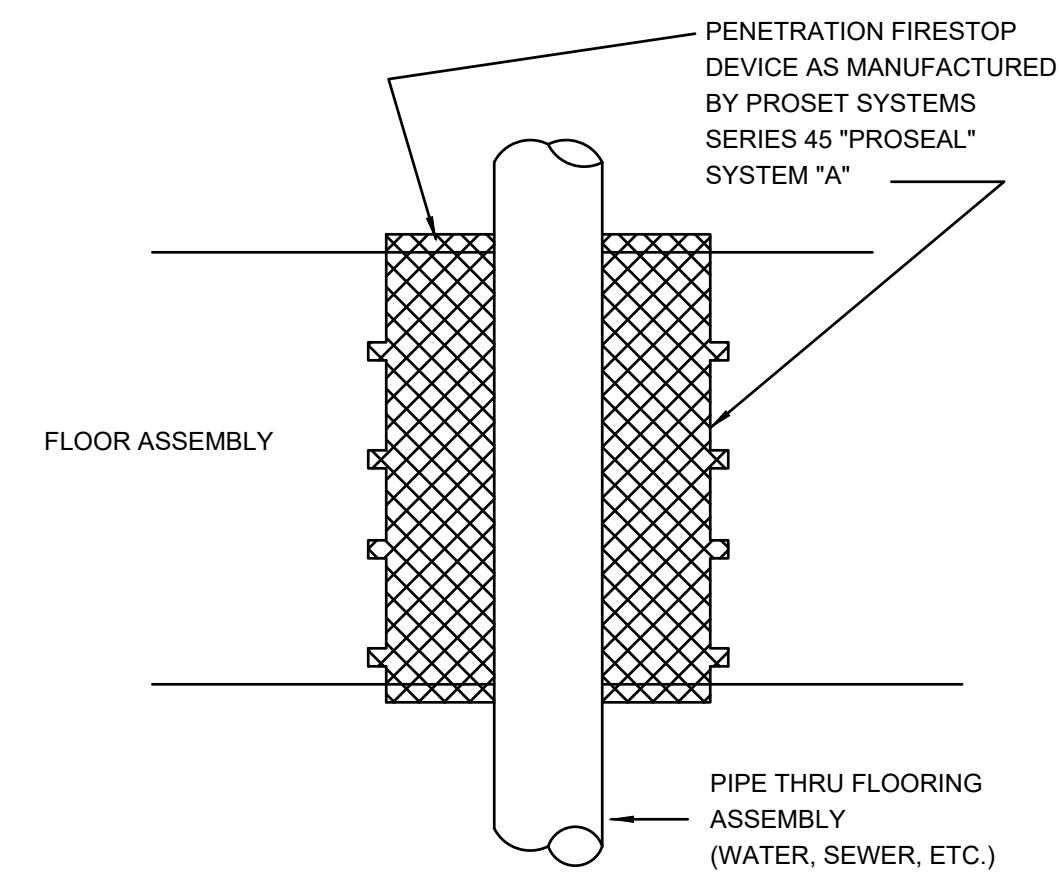


6 EXTERIOR CLEANOUT
P4.01 N.T.S

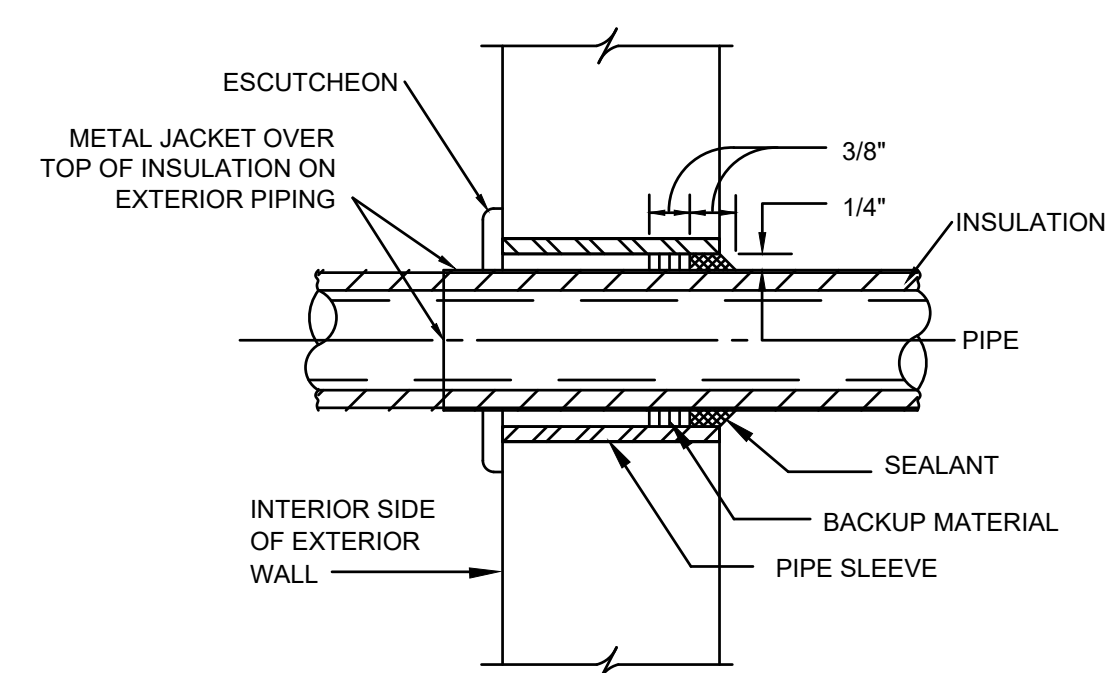
NOTE: ELIMINATE CONCRETE & SLOPE WHEN CLEANOUT BOX IS LOCATED IN SIDEWALK, STREET, OR OTHER PAVED AREAS



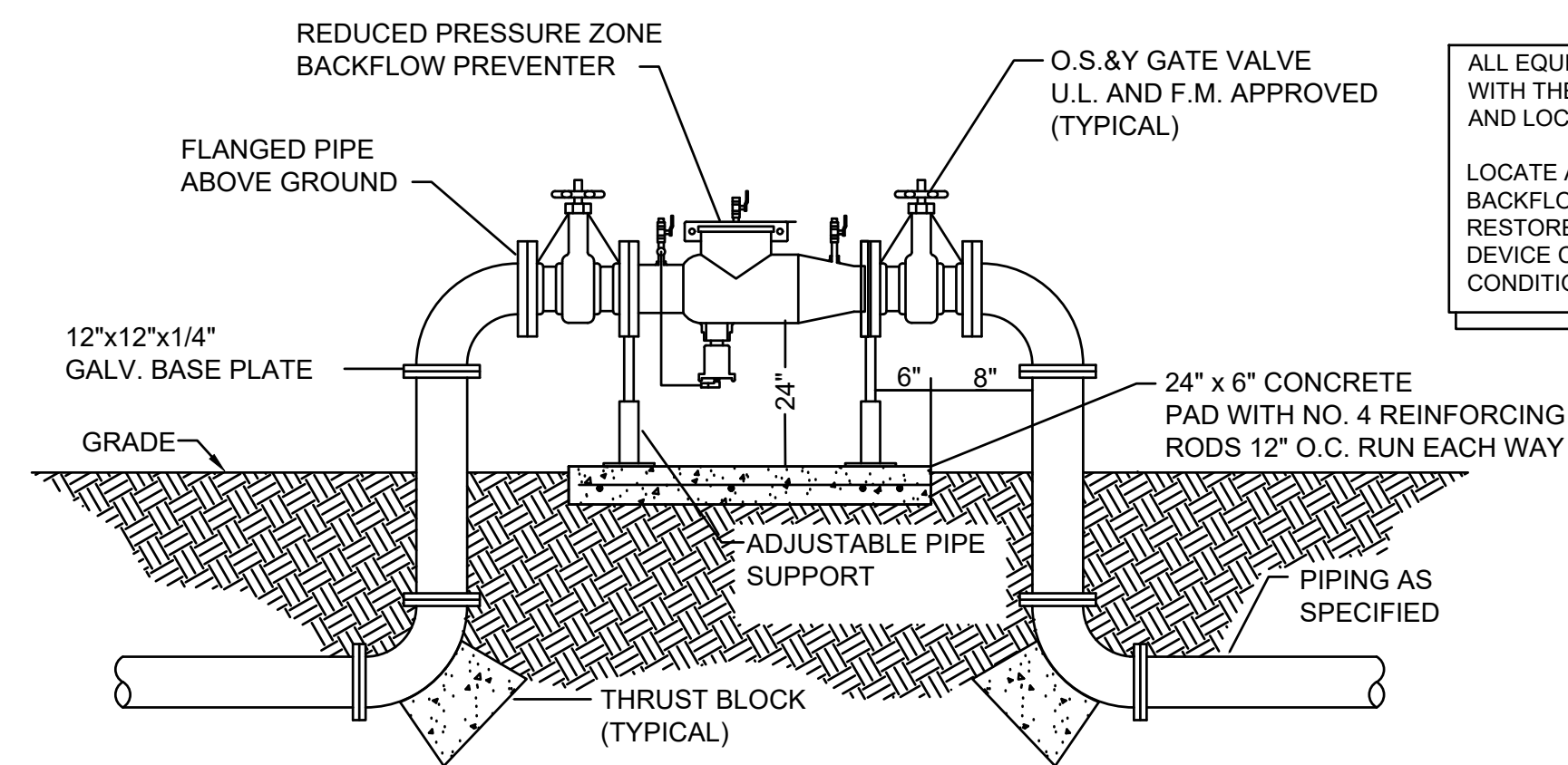
7 BACKWATER VALVE
P4.01 N.T.S



8 PIPE FLOOR PENETRATION
P4.01 N.T.S

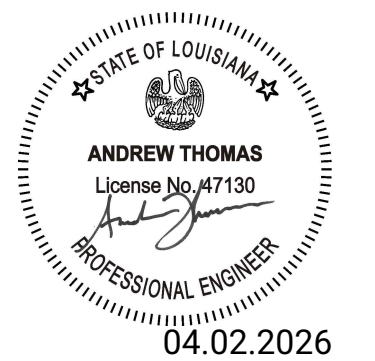


9 PIPE WALL PENETRATION
P4.01 N.T.S



10 RPZ BACKFLOW PREVENTER
P4.01 N.T.S

ALL EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE CODES AND REGULATIONS OF BOTH 2021 IPC AND LOCAL AUTHORITIES HAVING JURISDICTION.
LOCATE AND INSPECT EXISTING DCDA AND/OR RPZ BACKFLOW PREVENTER IN FIELD. EQUIPMENT SHALL BE RESTORED TO PROPER WORKING CONDITION. IF ANY DEVICE CANNOT BE RESTORED TO WORKING CONDITION, IT SHALL BE REPLACED IN KIND.



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HANGER SCHEDULE			
COPPER TUBING	SUPPORT SPACING	ROD SIZE	NOTES
3/4" AND SMALLER	5'-0" O.C.	3/8"	1 & 2
1"	6'-0" O.C.	3/8"	-
1 1/4"	7'-0" O.C.	3/8"	-
1 1/2" - 2"	8'-0" O.C.	3/8"	-
2 1/2"	9'-0" O.C.	1/2"	-
3"	10'-0" O.C.	1/2"	-
4"	12'-0" O.C.	1/2"	-
STEEL PIPE	SUPPORT SPACING	ROD SIZE	NOTES
1 1/4" AND SMALLER	7'-0" O.C.	3/8"	-
1 1/2" - 2 1/2"	9'-0" O.C.	3/8"	-
3"	12'-0" O.C.	1/2"	-
4"	14'-0" O.C.	5/8"	-
5"	16'-0" O.C.	5/8"	-
6"	17'-0" O.C.	3/4"	-
8" - 10"	19'-0" O.C.	7/8"	-
CAST IRON PIPE	SUPPORT SPACING	ROD SIZE	NOTES
4" AND SMALLER	5' - 0" O.C. & AT EVERY JOINT	3/8"	10 FT. MAX SPACING: ONE PIPE SECTION AT JOINTS, AT CHANGE OF DIRECTION, AND AT BRANCH CONNECTION
5" - 6"	5' - 0" O.C. & AT EVERY JOINT	1/2"	
8" AND LARGER	5' - 0" O.C. & AT EVERY JOINT	3/4"	
DUCTILE IRON PIPE			
20 FT. MAX SPACING: MIN OF ONE (1) HANGER PER PIPE SECTION NEAR JOINT BEHIND BELL, AT CHANGE OF DIRECTION AND BRANCH CONNECTIONS.			

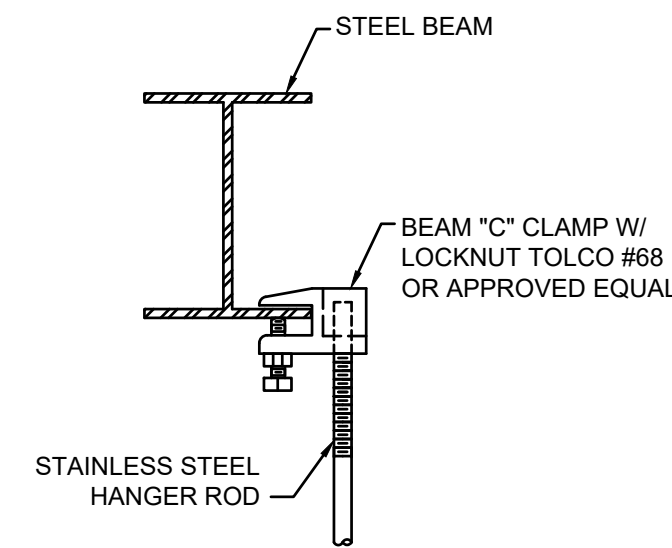
HANGER NOTES:

- RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS WITH 3/8 IN. MINIMUM DIAMETER.
- HANGERS ON INSULATED SYSTEMS SHALL INCORPORATE PROTECTION SADDLES OR SHIELDS OR SHALL BE CLAMPED OR WELDED TO THE PIPE AND PROJECT THROUGH THE INSULATION TO PROVIDE EXTERNAL ATTACHMENT.

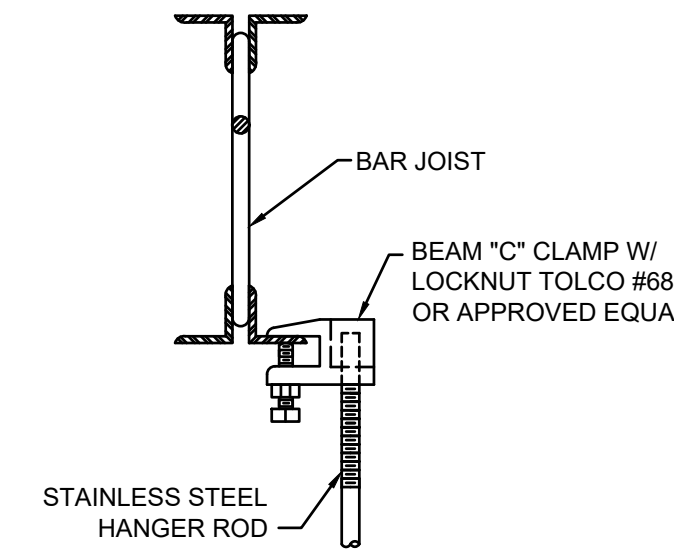
PLUMBING NOTES:

- P-TRAPS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- PROVIDE INSULATING COVER TO WASTE AND SUPPLY PIPING UNDER LAVATORY.
- FURNISH FAUCET, TRAP, PIPING, WALL CARRIER AND INSULATION AS REQUIRED FOR EACH FIXTURE.

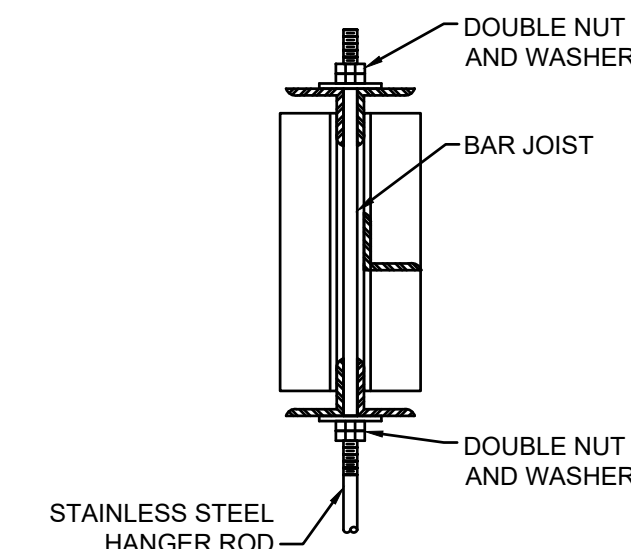
1 PIPE HANGER SCHEDULE
P4.02 N.T.S



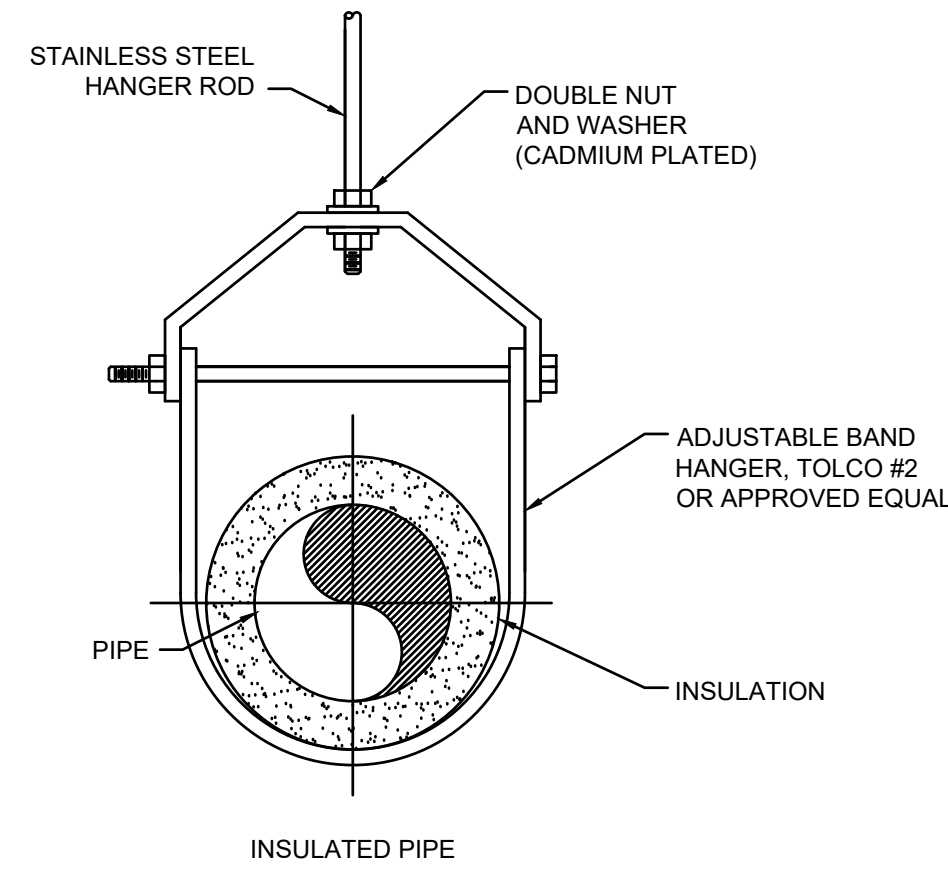
2 BEAM CLAMP DETAIL
P4.02 N.T.S



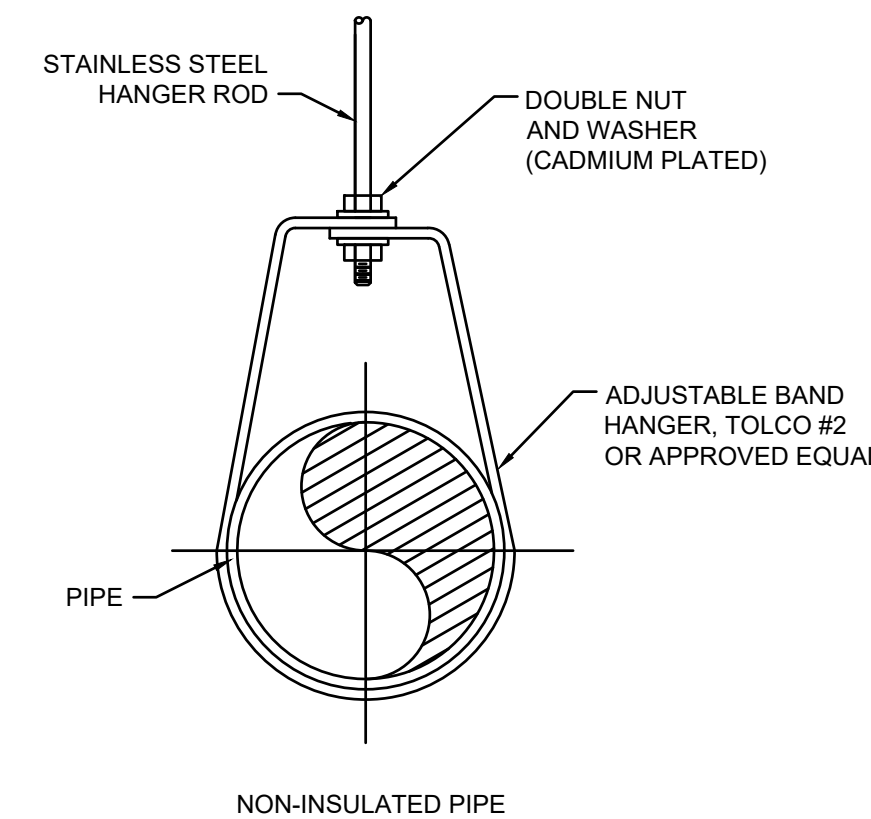
3 JOIST CLAMP DETAIL
P4.02 N.T.S



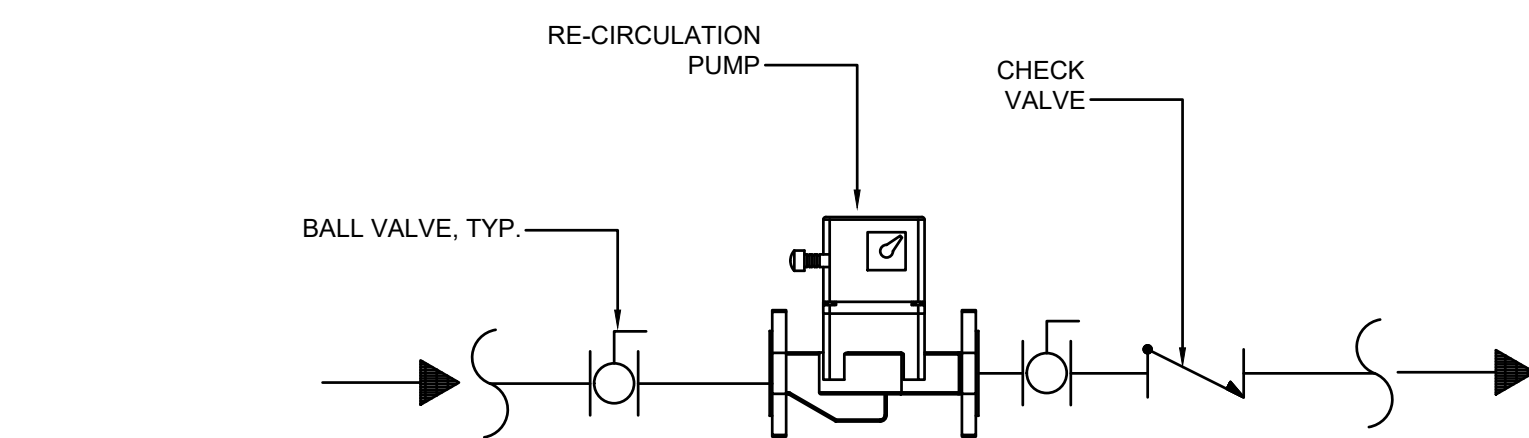
4 ROD BETWEEN JOIST DETAIL
P4.02 N.T.S



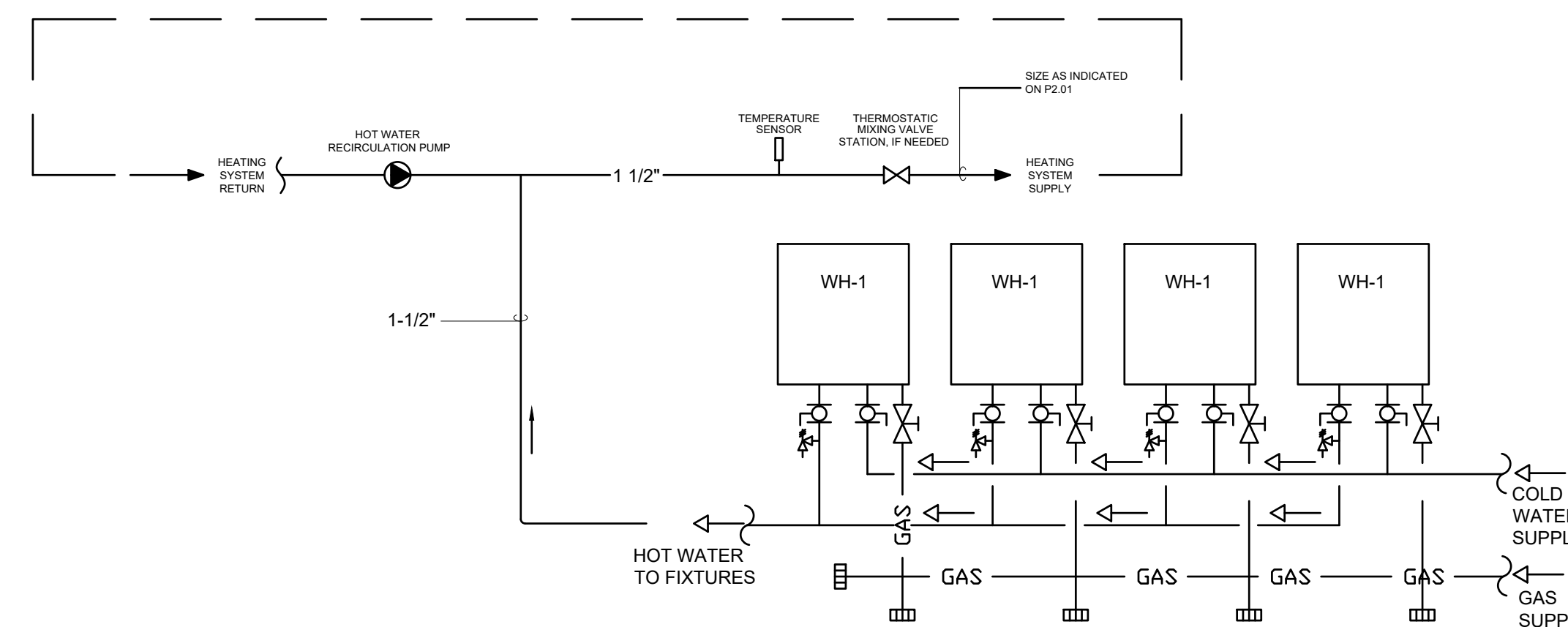
5 PIPE HANGER DETAIL
P4.02 N.T.S



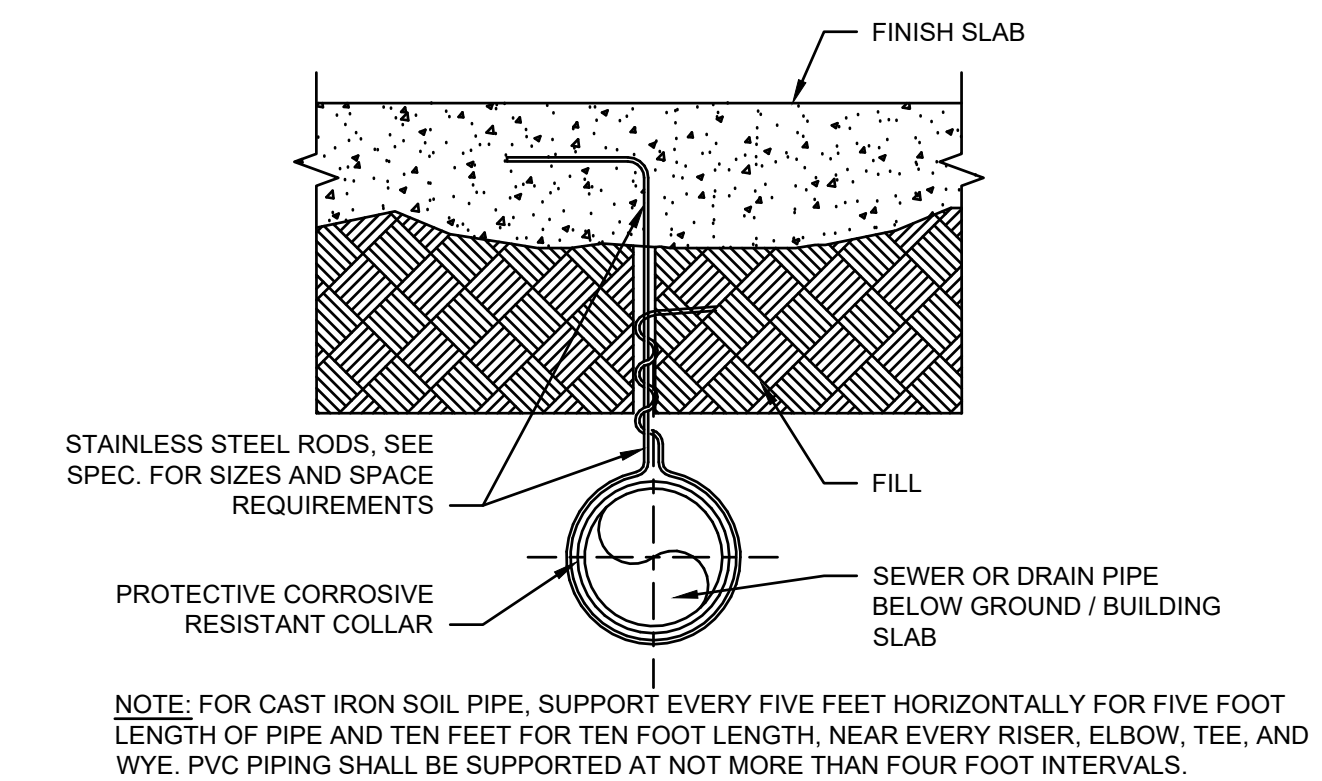
6 PIPE HANGER DETAIL
P4.02 N.T.S



8 HOT WATER RECIRCULATION PUMP DETAIL, TYP.
P4.02 N.T.S



9 HOT WATER RECIRCULATION LOOP PIPING DETAIL
P4.02 N.T.S



10 SEWER LINE SUPPORT DETAIL
P4.02 N.T.S

