

CEILING SUPPLY DIFFUSERS

SYMBOL	CFM	NECK SIZE	MINIMUM - MAXIMUM 1/2 SPACING	FACE DIMENSION	
				HARD CEILING	LAY-IN CEILING
	48-80	6"Ø	4" - 8"	12x12	24x24
	85-180	8"Ø	4" - 8"	12x12	24x24
	185-340	10"Ø	8" - 10"	24x24	24x24
	345-500	12"Ø	9" - 10"	24x24	24x24
	505-600	14"Ø	10" - 12"	24x24	24x24

NOTE:
1. RUNOUT DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE INDICATED NECK SIZE.

CEILING RETURN OR EXHAUST REGISTERS & GRILLES

SYMBOL	CFM	GRILLE SIZE	RUNOUT DUCT (NOTE 2)	OR	CFM	GRILLE SIZE	RUNOUT DUCT (NOTE 2)
	0-95	8x8 (NOTE 1)	8x6		100-195	10x10 (NOTE 1)	8x8
	200-295	12x12 (NOTE 1)	10x8		300-395	18x18 (NOTE 1)	12x12
	400-495	22x22 (NOTE 1)	12x12		500-595	24x24 (NOTE 1)	14x12
	600-695	24x24 (NOTE 1)	14x12		700-795	24x24 (NOTE 1)	14x12
	800-1500	48x24 (NOTE 1)	18x14				

NOTES:
1. USE 22x22 GRILLE SIZE FOR ALL LAY-IN CEILING APPLICATIONS. USE SIZE INDICATED FOR HARD CEILING APPLICATIONS.
2. WHERE DUCT CONNECTION IS SHOWN, RUNOUT DUCT SHALL BE SIZE SHOWN IN SCHEDULE U.N.O.
3. USE 18x18 GRILLE SIZE AND 12x12 RUNOUT DUCT FOR HARD CEILING APPLICATIONS WHERE SIZE OR AIRFLOW IS NOT INDICATED.
4. USE 12x12 RUN OUT DUCT FOR LAY-IN CEILING APPLICATIONS WHERE AIRFLOW IS NOT INDICATED.

SIDEWALL REGISTERS AND GRILLES

CFM	SUPPLY AIR		RETURN AIR OR EXHAUST AIR	
	REGISTER SIZE	RUNOUT DUCT	REGISTER SIZE	RUNOUT DUCT
0-95	8x6	8x6	8x6	8x6
100-195	10x6	10x6	10x6	10x6
200-295	12x6	12x6	18x6	18x6
300-395	18x6	18x6	24x6	24x6
400-495	18x8	18x8	30x6	30x6
500-595	18x10	18x10	30x10	30x10

PIPING AND FITTINGS

	CONDENSATE DRAIN PIPING FROM COOLING COIL
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	HEATING HOT WATER SUPPLY PIPING
	HEATING HOT WATER RETURN PIPING
	REFRIGERANT PIPING (ONE LINE REPRESENTS BOTH LIQUID AND GAS LINES)
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	STRAINER
	UNION
	FLEXIBLE PIPE CONNECTION
	AUTOMATIC AIR VENT AND ISOLATION BALL VALVE
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	FLOW DIRECTION IN PIPE
	NEW PIPE
	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED

MISCELLANEOUS

	ELEVATION MARK - DISTANCE ABOVE FINISHED FLOOR TO CENTER OF PIPE OR TOP OF DUCT
	POINT OF CONNECTION, NEW TO EXISTING
	SMOKE RATED WALL
	1 HOUR FIRE RATED WALL
	2 HOUR FIRE RATED WALL

VALVES

	BALL VALVE (WITH QUARTER TURN HANDLE)
	BUTTERFLY VALVE (WITH QUARTER TURN HANDLE)
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	SOLENOID VALVE
	VALVE ACTUATORS: QUARTER TURN LEVER HANDWHEEL ELECTRIC MOTOR SOLENOID

MEASUREMENTS AND CONTROLS

	THERMOSTAT/TEMPERATURE SENSOR
	HUMIDITY SENSOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	AIRFLOW STATION
	AUTOMATIC AIR VENT AND ISOLATION VALVE
	PRESSURE GAUGE AND ISOLATION VALVE
	CIRCUIT SETTER
	FLOW CONTROL VALVE
	VENTURI FLOW METER
	PRESSURE & TEMPERATURE TEST STATION

AIR DISTRIBUTION

	RECTANGULAR SHEET METAL DUCT
	ROUND SHEET METAL DUCT
	LINED DUCTWORK - DIMENSION ARE SHEET METAL SIZE
	LINED DUCTWORK WITH EXTERIOR LAGGING - SEE DETAIL FMS.03
	WELDED STAINLESS STEEL DUCTWORK
	FLEXIBLE RUNOUT DUCT
	ROUND OR RECTANGULAR TAKE-OFF FITTING WITH BALANCING DAMPER - SEE DETAIL CMS.02
	SUPPLY AIR DUCTWORK SECTION
	RETURN AIR DUCTWORK SECTION
	EXHAUST AIR DUCTWORK SECTION
	AIR BALANCING DAMPER (MANUAL)
	CONTROL DAMPER (MOTORIZED)
	BACKDRAFT DAMPER
	FIRE/SMOKE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	DUCTWORK FLEXIBLE CONNECTION
	DUCTWORK ACCESS PANEL
	DUCT ELBOW WITH SINGLE THICKNESS TURNING VANES
	SIDEWALL REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
	ROUND CEILING SA DIFFUSER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SHADED REGION INDICATES SECTORIZING BAFFLE(S)
	SQUARE CEILING SA DIFFUSER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SHADED REGION INDICATED SECTORIZING BAFFLE(S)
	RECTANGULAR CEILING RA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) WHERE CFM IS NOT INDICATED, PROVIDE STANDARD SIZE FOR CEILING TYPE INDICATED IN SCHEDULE. SEE DETAIL CMS.02
	RECTANGULAR CEILING EA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SEE DETAIL BMS.02
	ACCESS PANEL IN INACCESSIBLE CEILING (24x24, UNO) SEE DETAIL AMS.02
	SINGLE DUCT AIR TERMINAL UNIT. SEE DETAIL BMS.01
	DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR)
	DOOR GRILLE (24"x16", UNO)
	DOOR UNDERCUT (3/4", UNO)
	LINEAR BAR DIFFUSER, SIZE AND AIR FLOW (CFM). SEE DETAIL HWS.03

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.	
1. ASHRAE a. STANDARD 15 b. STANDARD 55 c. STANDARD 62.1 d. STANDARD 90.1	SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019 THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY - 2017 VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2019 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
2. ASME a. BOILER AND PRESSURE VESSEL CODE - 2019 1. SECTION VIII b. ASME A17.1	RULES FOR CONSTRUCTION OF PRESSURE VESSELS SAFETY CODE FOR ELEVATORS AND ESCALATORS - 2019
3. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA)	
4. NATIONAL FIRE CODES a. NFPA 1 b. NFPA 13 c. NFPA 25 d. NFPA 54 e. NFPA 70 f. NFPA 72 g. NFPA 90A h. NFPA 90B i. NFPA 91 j. NFPA 101	UNIFORM FIRE CODE - 2021 (FLORIDA EDITION) STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM - 2019 STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2020 NATIONAL FUEL GAS CODE - 2021 NATIONAL ELECTRICAL CODE - 2020 NATIONAL FIRE ALARM AND SIGNALING CODE - 2019 STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021 STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2021 CLIPS MAXIMUM 38" O.C. MINIMUM 1 EACH SIDE TO SECURE EQUIPMENT TO CURB WITH #10 TIE SCREWS ON EACH SIDE OF CLIP. LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
5. FLORIDA BUILDING CODE, 2023 EDITION INTERNATIONAL BUILDING CODE, 2024 EDITION a. BUILDING CODE b. EXISTING BUILDING CODE c. ENERGY CONSERVATION CODE d. MECHANICAL CODE e. PLUMBING CODE f. FUEL GAS CODE g. ACCESSIBILITY CODE	
6. FLORIDA STATUTES a. CHAPTER 471 b. CHAPTER 553.80	ENGINEERING BUILDING CONSTRUCTION STANDARDS, FLORIDA BUILDING CODE - ENFORCEMENT
7. FLORIDA ADMINISTRATIVE CODE a. CHAPTER 9B7 b. CHAPTER 61C-5 c. CHAPTER 61G15-34 d. CHAPTER 69A-3 e. CHAPTER 69A-47 f. CHAPTER 69A-40 8. ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS (ADAAG)	FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS FIRE PREVENTION - GENERAL PROVISIONS UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS THE FLORIDA FIRE PREVENTION CODE

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THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

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ABBREVIATIONS

AC	ABOVE CEILING	HHW	HEATING HOT WATER
AFR	ABOVE FINISHED FLOOR	HHWS	HEATING HOT WATER SUPPLY PIPING
AHP	AS-HIGH-AS-POSSIBLE	HHWR	HEATING HOT WATER RETURN PIPING
AHU	AIR HANDLING UNIT	HP	HORSEPOWER
BAS	BUILDING AUTOMATION SYSTEM	IN	INCHES
BD	BALANCING DAMPER	MCA	MINIMUM CIRCUIT AMPACITY
BDD	BACKDRAFT DAMPER	MOC	MAXIMUM OVERLOAD PROTECTION
BF	BELOW FLOOR	NA	NOT APPLICABLE
BHP	BROKE HORSEPOWER	N/C	NORMALLY CLOSED
BOD	BOTTOM OF DUCT	NIS	NOT IN SCOPE
BOP	BOTTOM OF PIPE	N.O.	NORMALLY OPEN
BTUH	BRITISH THERMAL UNITS PER HOUR	OA	OUTSIDE AIR
C	CONDENSATE	P	PUMP
CC	COOLING COIL	RA	RETURN AIR
CFM	CEILING DIFFUSER	RAG	RETURN AIR GRILLE
CFM	CUBIC FEET PER MINUTE	RA	RETURN AIR REGISTER
CHW	CHILLED WATER	REF	REFRIGERANT
CHWS	CHILLED WATER SUPPLY PIPING	RPM	REVOLUTIONS PER MINUTE
CHWR	CHILLED WATER RETURN PIPING	SA	SUPPLY AIR
COP	CENTER OF PIPE	SAR	SUPPLY AIR REGISTER
CV	CONSTANT VOLUME	SAT	SUPPLY AIR TERMINAL UNIT
DDC	DIRECT DIGITAL CONTROL PANEL	SF	SUPPLY FAN
DG	DOOR GRILLE (24"x16", UNO)	SMT	SHEET METAL SIZE
DN	DOWN	SP	STATIC PRESSURE
DOAS	DEDICATED OUTSIDE AIR SYSTEM	SQ FT	SQUARE FEET
EA	EXHAUST AIR	TAS	TRANSFER AIR GRILLE
EAG	EXHAUST AIR GRILLE	TAS	TRANSFER AIR SLEEVE
ER	EXHAUST REGISTER	TCD	TEMPERATURE CONTROL DIFFUSER
FEET	FEET	TOD	TOP OF DUCT
F	FAN COIL UNIT	TOP	TOP OF PIPE
FCU	FAN COIL UNIT	TYD	TYPICAL
Fdb	DEGREES FAHRENHEIT DRY BULB	UC	UNDERCUT (3/4", UNO)
Fdb	DEGREES FAHRENHEIT WET BULB	UG	UNDERGROUND
Fdb	DEGREES FAHRENHEIT WET BULB	UH	UNIT HEATER
Fdb	DEGREES FAHRENHEIT WET BULB	UN	UNLESS NOTED OTHERWISE
Fdb	DEGREES FAHRENHEIT WET BULB	V	VALVE
Fdb	DEGREES FAHRENHEIT WET BULB	V	VARIABLE AIR VOLUME
Fdb	DEGREES FAHRENHEIT WET BULB	VFD	VARIABLE FREQUENCY DRIVE
Fdb	DEGREES FAHRENHEIT WET BULB	VFM	VENTURI FLOW METER
Fdb	DEGREES FAHRENHEIT WET BULB	WVG	WATER GAUGE

MECHANICAL GENERAL NOTES

- COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATIONS WITH ELECTRICAL TO PROVIDE THE REQUIRED CLEARANCES AROUND ALL ELECTRICAL PANELS, SWITCHGEAR, ETC. INSTALLATION OF EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR REMOVAL OF FILTERS AND FOR MAINTENANCE.
- WHERE AIRFLOW STATIONS, COILS, CONTROL DAMPERS, SMOKE DETECTORS, SMOKE DAMPERS, FIRE DAMPERS, OR COMBINATION FIRE/SMOKE DAMPERS ARE INSTALLED, PROVIDE DUCT ACCESS DOORS TO ALLOW SERVICING AND VIEWING OF DEVICE. PROVIDE CEILINGWALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
- PROVIDE EXTERIOR LOUVERS WITH NECESSARY TRIM KIT TO RECESS LOUVER INTO FINISH MASONRY SURFACE. SEAL ANY REMAINING OPENING AROUND PERIMETER. SEE STRUCTURAL DRAWINGS FOR LOCATION OF LINTELS, BOND BEAMS AND REINFORCING AND COORDINATE ACCORDINGLY. LOUVERS IN MASONRY CONSTRUCTION SHALL BE DIMENSIONED IN BRICK COURSE MODULUS OF 4" W x 8" H (IF DIMENSION ON PLANS IS NOT BRICK COURSE ROUND UP TO NEXT LARGER COURSE MODULUS. PROVIDE MINIMUM 2" DEEP (WH TO MATCH LOUVER) INSULATED SHEET METAL PLENUM WITH BOTTOM SLOPED TO DRAIN ON INTERIOR SIDE OF LOUVERS.
- PROVIDE MINIMUM 24" HIGH DOUBLE WALL, FULLY WELDED, INSULATED ROOF CURBS WITH 2x4 PRESSURE TREATED WALKER FOR ALL ROOF MOUNTED EQUIPMENT. HEIGHT SHALL BE EXTENDED BEYOND 24" AS NECESSARY FOR INSULATION THICKNESS AND PROPER FLASHING AS DETERMINED BY ROOFING CONTRACTOR. CURBS SHALL BE RATED FOR WIND SPEED AND EXPOSURE CATEGORY FOR PROJECT LOCATION PER FLORIDA BUILDING CODE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ATTACHMENT SIGNED & SEALED BY STRUCTURAL ENGINEER LICENSED IN FLORIDA. ATTACHMENT SHALL BE THE MORE STRINGENT REQUIREMENTS AS DETERMINED BY ENGINEER OR THE FOLLOWING:
A. PROVIDE #10 TEK SCREWS (METAL DECK) OR 1/4" TAPCONS (CONCRETE DECK) AT MAXIMUM 24" O.C. MINIMUM 2 EACH SIDE AROUND PERIMETER TO SECURE CURB TO ROOF. PROVIDE MGM STANDARD CLIPS MAXIMUM 38" O.C. MINIMUM 1 EACH SIDE TO SECURE EQUIPMENT TO CURB WITH #10 TIE SCREWS ON EACH SIDE OF CLIP.
- VACUUM CLEAN THE INTERIOR OF ALL HVAC EQUIPMENT PRIOR TO SUBSTANTIAL COMPLETION.
- PRIOR TO FINAL INSPECTION, PROVIDE CERTIFIED TEST & BALANCE REPORT AND OPERATIONS & MAINTENANCE MANUALS TO THE OWNER.
- PROVIDE NEW AIR FILTERS IN EACH UNIT REQUIRE FILTERING WHEN THE PROJECT IS READY FOR TEST AND BALANCE. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. REPLACE FILTERS DURING CONSTRUCTION ACCORDING TO FILTER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL OPEN ENDS OF DUCT WORK DURING CONSTRUCTION.
- LOCATIONS OF EXISTING EQUIPMENT ARE BASED ON REFERENCE MATERIALS PROVIDED TO THE ENGINEER AND CONCEALED ELEMENTS HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL LOCATE CONCEALED ELEMENTS AND NOTIFY ENGINEER IF VARIANCES BETWEEN THESE DOCUMENTS AND ACTUAL FIELD CONDITIONS EXIST AND MAY MATERIALLY AFFECT THE DESIGN INTENT.

MECHANICAL DUCTWORK NOTES

- DUCT SIZES INDICATED ARE SHEET METAL SIZES. IT IS RECOMMENDED THAT DUCTWORK BE FABRICATED FROM FIELD MEASUREMENTS TAKEN AS THE BUILDING STRUCTURE AND SPACE COMPETING SYSTEMS ARE PROGRESSIVELY INSTALLED. THE DUCTWORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS IS DIAGRAMMATIC AND DOES NOT NECESSARILY INCLUDE ALL MODIFICATIONS REQUIRED TO AVOID THESE INTERFERENCES. BEFORE FABRICATING ANY DUCTWORK, CHECK THE PHYSICAL CONDITIONS AT THE JOB SITE AND MAKE CHANGES IN CROSS SECTIONS, ROUTING, OFFSETS AND SIMILAR ITEMS WHETHER SPECIFICALLY INDICATED OR NOT. VERIFY THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING DUCTWORK, PIPING, LIGHT FIXTURES, CEILING SYSTEMS AND TO PROVIDE EQUIPMENT SERVICE. COSTS REQUIRED TO CHANGE DUCTWORK TO FIT THE SPACE AVAILABLE AND AVOID INTERFERENCES CAUSED BY SPACE COMPETING SYSTEMS SHALL BE BORNE BY THE CONTRACTOR. NO ADDITIONAL REMUNERATION WILL BE PAID BY THE OWNER.
- DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESS, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS, AND HANGERS AND HANGERS, SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE DUCT."
- WHERE ROUND DUCT IS INDICATED ON PLANS, USE SPIRAL WOUND DUCTWORK. "SNAPLOCK" DUCTWORK IS NOT ACCEPTABLE.
- APPLY EXTERNAL INSULATION TO SINGLE WALL SUPPLY DUCTS, RETURN DUCTS AND OUTSIDE AIR DUCTS PER SPECIFICATIONS. DOUBLE WALL DUCTS AND DUCTS INDICATED ON PLANS TO HAVE INTERNAL DUCT LINER SHALL NOT RECEIVE EXTERNAL INSULATION.
- PROVIDE FLEXIBLE DUCT CONNECTIONS AT EACH EQUIPMENT CONNECTION.
- WHEREVER THE DEPTH OF THE TRUNK DUCT IS LESS THAN THE ROUND BRANCH DUCT DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE BRANCH DUCT.
- PROVIDE VOLUME CONTROL DAMPERS IN SIDE TAKE-OFF FITTINGS TO SUPPLY AIR DIFFUSERS AND EXHAUST AIR AND RETURN AIR GRILLES AND AT EACH DUCT BRANCH SERVING TWO OR MORE AIR TERMINALS, WHETHER SHOWN ON THE DRAWINGS OR NOT.
- COORDINATE EXACT LOCATIONS OF AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND THE LIGHTING LAYOUT.
- CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
- PROVIDE MINIMUM 10" HIGH PLENUM, LINED WITH 1" THICK INSULATION, ON TOP OF CEILING MOUNTED RETURN AND EXHAUST AIR GRILLES (WAL TO MATCH GRILLE).
- PROVIDE FIRE DAMPER AT PENETRATIONS OF FIRE RATED BARRIERS AND PARTITIONS UNLESS NOTED OTHERWISE. PENETRATIONS OF 1-HOUR FIRE BARRIER OR NON-RATED FLOOR ASSEMBLY BY FULLY DUCTED SYSTEM DO NOT REQUIRE INSTALLATION OF A FIRE DAMPER PER IMC 607.5.2 OR 607.6.3 BUT SHALL BE INSTALLED PER DETAIL INCLUDED IN THESE PLANS OR SIMILAR UL LISTED PENETRATION. PENETRATIONS OF 1-HOUR FIRE BARRIER BY TRANSFER DUCTS SHALL BE PROVIDED WITH A FIRE DAMPER.
- INSTALL DUCT MOUNTED SMOKE DETECTOR(S) (FURNISHED BY DIV. 29) IN SUPPLY TRUNK DUCT BEFORE ANY TAKE-OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY OF 2000 CFM OR GREATER AND WHERE INDICATED ON PLANS.
- RETURN AIR FROM INDIVIDUAL ROOMS IS THRU AN ABOVE-CEILING RETURN AIR PLENUM.
- OUTSIDE AIR INTAKES SHALL NOT BE LOCATED ANY CLOSER THAN 15 FEET FROM ANY EXHAUST OUTLET OR PLUMBING VENT TERMINAL.
- COORDINATE DUCT WITNESS TESTING WITH AUTHORITY HAVING JURISDICTION.

MECHANICAL PIPING NOTES

- ABOVE GROUND HYDRONIC PIPING SHALL BE METAL PER SPECIFICATION 232113.12.12 "ABOVE GROUND METAL HYDRONIC PIPING". BELOW GRADE HYDRONIC PIPING MAY BE PLASTIC PER SPECIFICATION 232113.15 "UNDERGROUND PLASTIC HYDRONIC PIPING".
- COMPLETELY FLUSH AND CLEAN HYDRONIC PIPING SYSTEMS PRIOR TO PUTTING INTO SERVICE. SEE WATER TREATMENT SPECIFICATIONS FOR REQUIREMENTS.
- PRESSURE TEST HYDRONIC PIPING SYSTEMS WITH WATER AT 100 PSIG FOR A MINIMUM OF 4 HOURS. FOR AIR TEST LEAVE PRESSURE ON SYSTEM FOR 24 HOURS. SYSTEM SHALL BE VERIFIED AT SAME TIME AND APPROXIMATELY SAME TEMPERATURE 24 HOURS FOLLOWING FLL. PRESSURE SHALL REMAIN ON SYSTEM UNTIL INSPECTED BY ENGINEER.
- COVER OPEN ENDS OF PIPE STORED ON SITE OR PLACED IN TRENCHES. ANY DEBRIS INSIDE PIPE SHALL BE REMOVED PRIOR TO ASSEMBLY, FLUSHING AND TESTING.
- MINIMUM PIPE SIZE FOR HYDRONIC PIPING SHALL BE 3/4". REFER TO EQUIPMENT SCHEDULES FOR BRANCH PIPE SIZE TO INDIVIDUAL EQUIPMENT.
- PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF HYDRONIC PIPING SYSTEMS.
- TRAP AIR CONDITIONING CONDENSATE AND RUN TO SAFE-WASTE LOCATION SHOWN ON PLANS.

COMMISSIONING NOTES

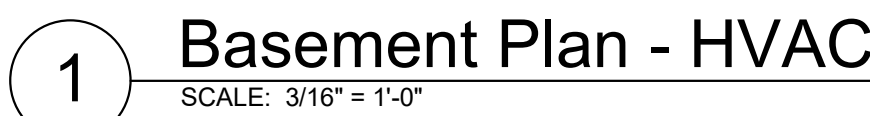
- THE BUILDING MECHANICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION C408 "SYSTEMS COMMISSIONING".
- THE OWNER IS RESPONSIBLE FOR PROVIDING THE SERVICES OF AN APPROVED COMMISSIONING PROVIDER.
- ELECTRICAL, PLUMBING, HVAC, CONTROLS AND TAB CONTRACTORS SHALL ASSIST WITH COMMISSIONING EFFORTS INCLUDING (NOT LIMITED TO) PERFORMING PRE-TESTING OF FUNCTIONAL PERFORMANCE TEST (TEST CRITERIA PROVIDED BY COMMISSIONING AUTHORITY) PRIOR TO COMMISSIONING AUTHORITY PERFORMING FUNCTION PERFORMANCE TEST VERIFICATION WITH AFOREMENTIONED CONTRACTOR.

DRAWING INDEX

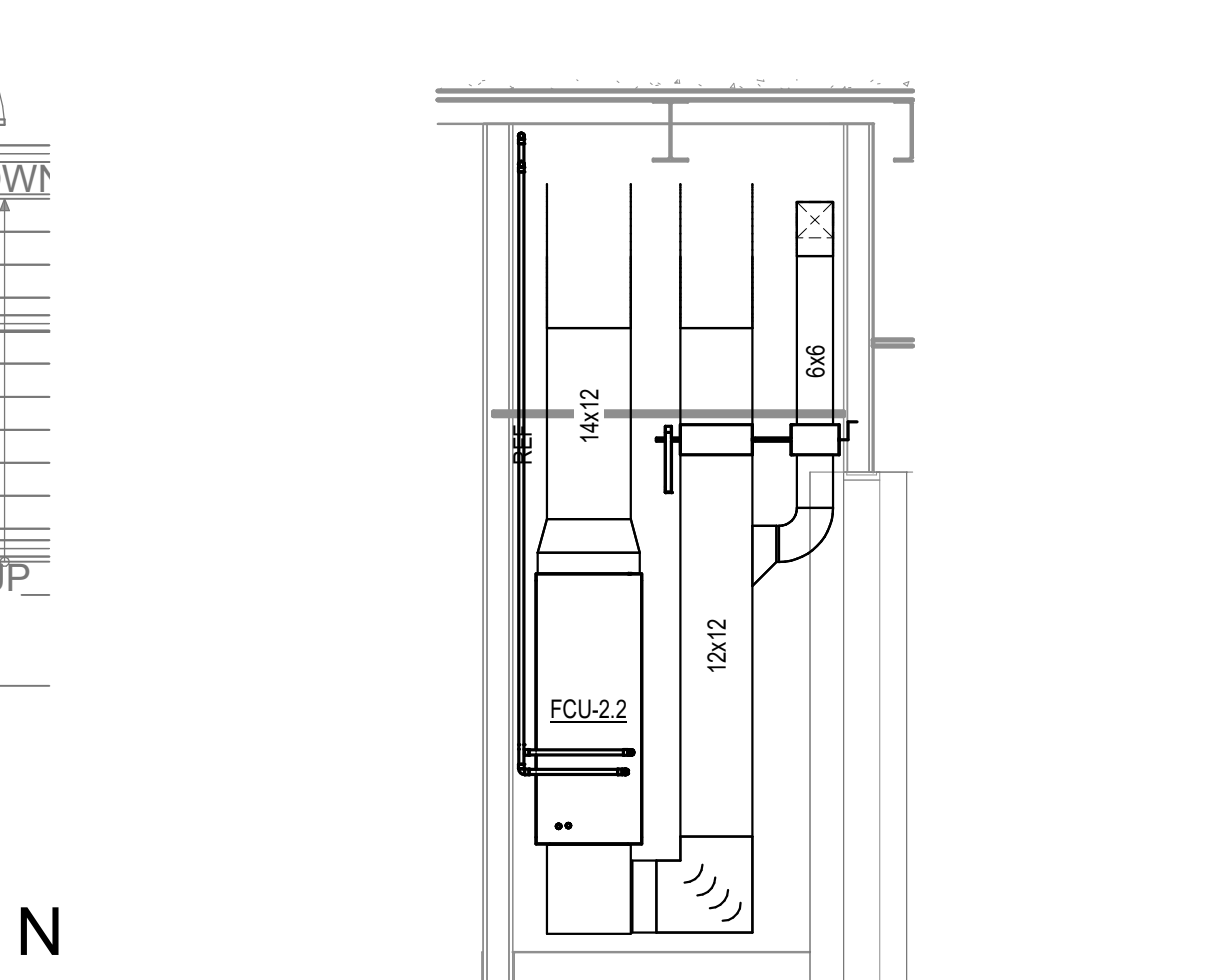
M.O. 01	General Notes & Legends
M1.10	Basement Plan
M1.11	First Floor Plan
M1.12	Second Floor Plan
M1.13	Roof & Attic Duct Plan
M2.11	Mech Room C100-2 Enlarged Plan & Sections
M2.21	Mech Room C300-8 Enlarged Plan & Sections
M2.32	Mech Room C300-1 Enlarged Plan & Sections
M3.01	CHW & HHW Riser
M4.01	Schedules
M4.02	Schedules
M4.03	Schedules
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M5.02	Details
M5.03	Details
M5.04	Details
M5.05	Details

GENERAL NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2020 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- DRAWINGS ARE DIAGRAMMATIC. INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
- FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, CONTRACTOR IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
- BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH CONTRACTOR WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON CONTRACTOR'S PART.
- THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH CONTRACTOR'S WORKS.
- CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR SEQUENCING AND COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
- WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
- ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AROUND HAZARDOUS INCLUDING PROMINENTLY PLACING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRANS TRAVELING CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE MANPOWER AND EQUIPMENT NECESSARY TO MAINTAIN THE PROJECT SCHEDULE.
- THE CONTRACTOR SHALL BE RESTRICTED TO AREAS DESIGNATED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS AND IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
- THE CONTRACTOR SHALL FURNISH "AS-BUILT" RECORD DOCUMENTS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.</

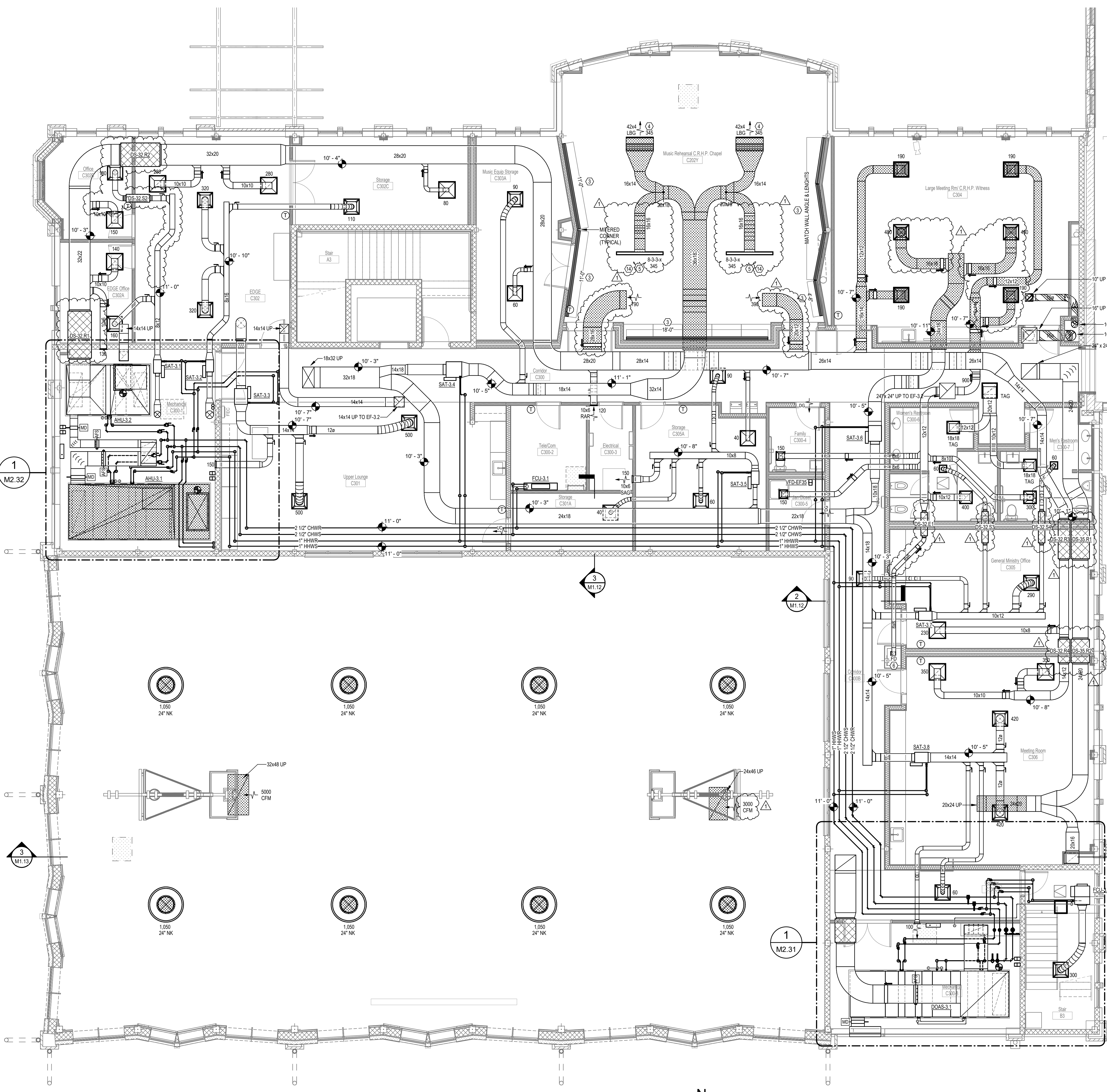


- SHEET
M1.10

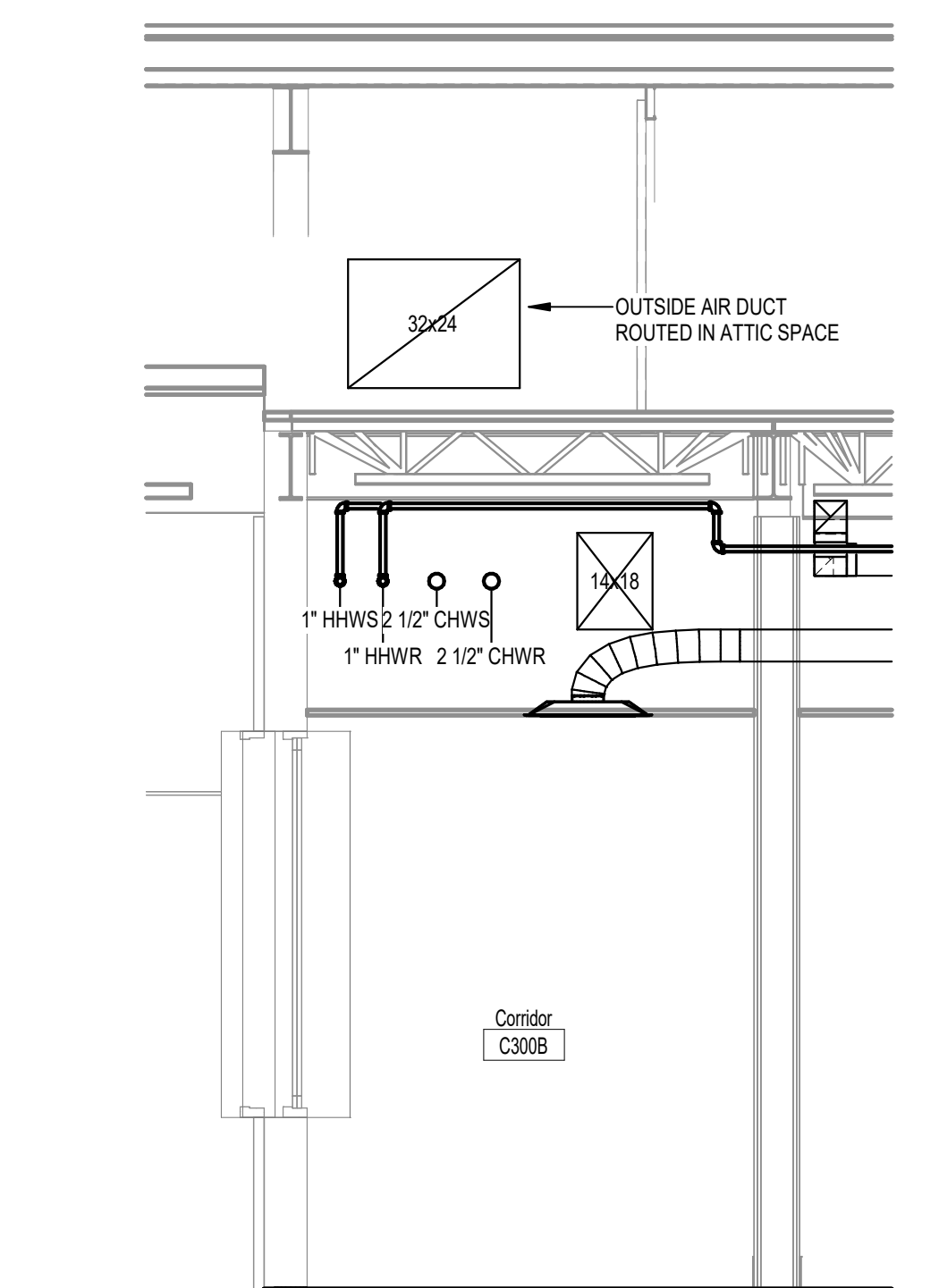
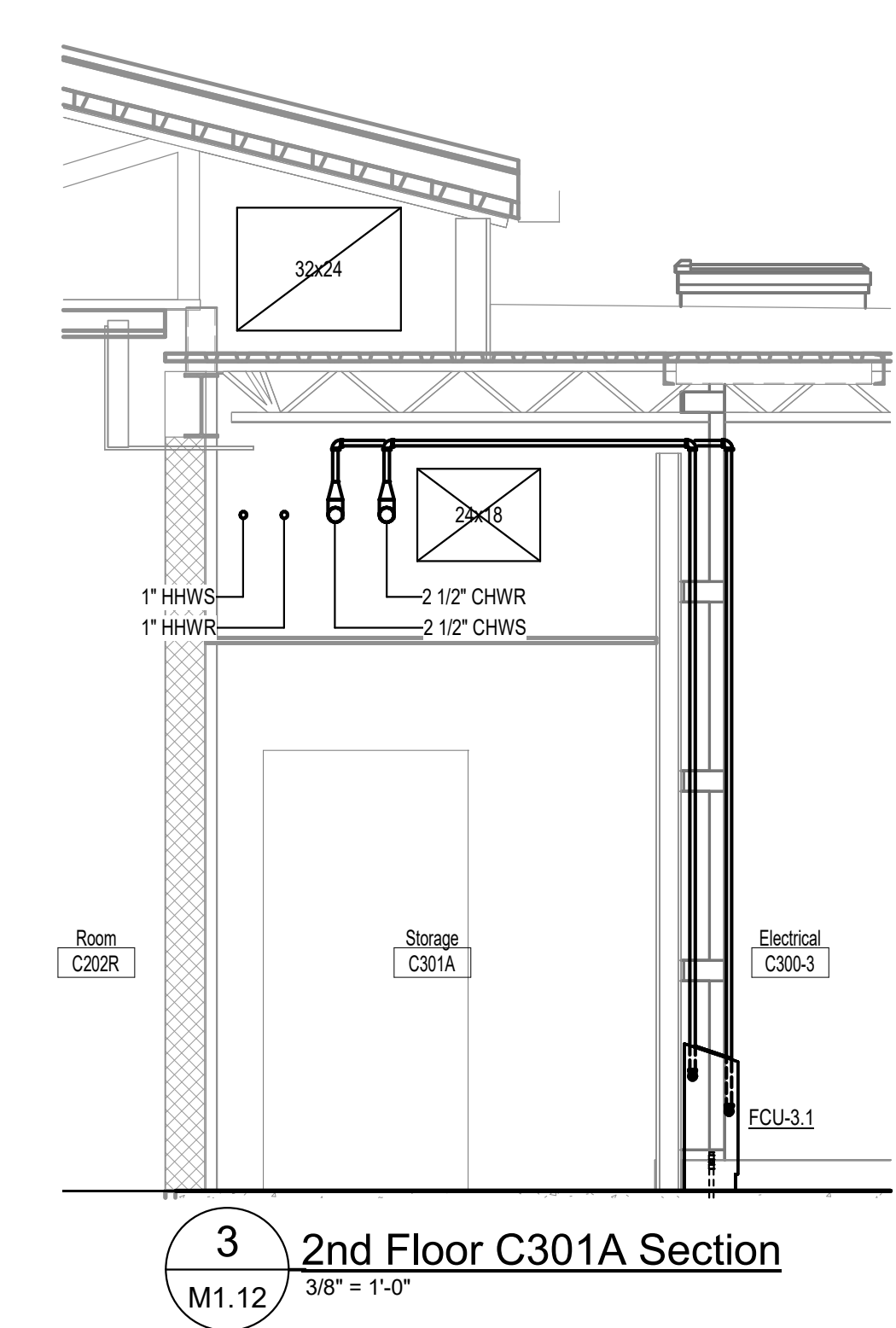


3 Mech Rm C200B - FCU-2.2 Elevation
M1.11 3/8" = 1'-0"

DRAWING NAME First Floor Plan	SHEET M1 11
---	-----------------------

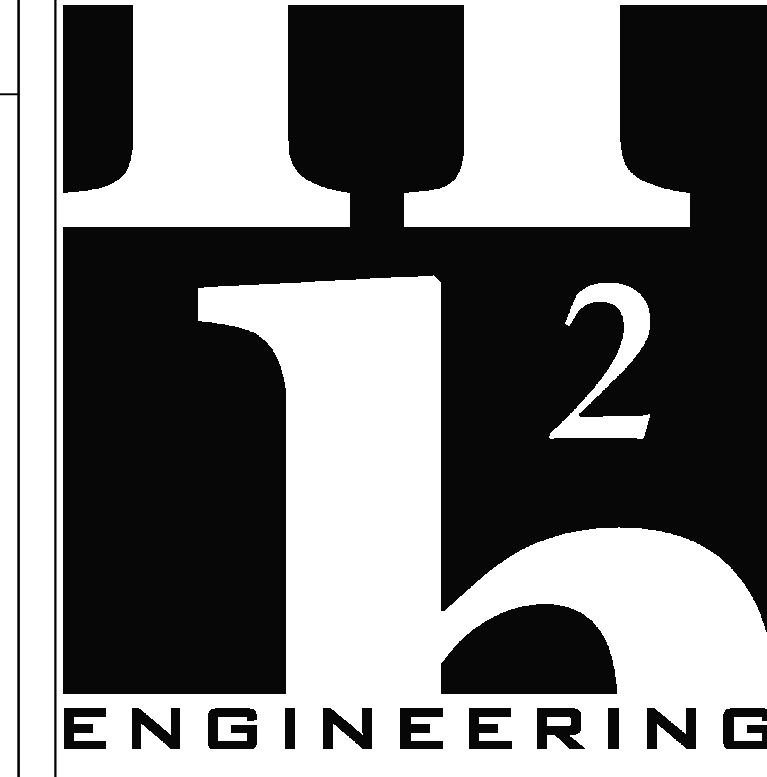


- MECHANICAL PLAN KEYNOTES**
- 1 DEMOLISH EXISTING CHILLER AND INSTALL NEW AIR COOLED CHILLER TO REPLACE EXISTING. REMOVE PIPING CONNECTIONS AND APPURTENANCES AS NECESSARY TO MAKE-UP NEW CONNECTION. PROVIDE NEW APPURTENANCES IN NEW PIPING - SEE DETAIL C.M5.01.
 - 2 DEMOLISH EXISTING PUMP AND SUCTION DIFFUSER AND INSTALL NEW PUMP AND SUCTION DIFFUSER TO REPLACE EXISTING. REMOVE PIPING CONNECTIONS AND APPURTENANCES AND NECESSARY TO MAKE-UP NEW CONNECTION. PROVIDE NEW APPURTENANCES TO REPLACE ANY REMOVED DEVICES IN NEW PIPING - SEE DETAIL C.M5.01.
 - 3 PROVIDE CONTINUOUS ARCHITECTURAL SURFACE MOUNT SLOT GRILLE ALONG EDGE OF CEILING WITH 1 - 1 1/2" SLOT. PROVIDE FULLY OPEN SLOT (RT) AND RETURN AIR SIGHT Baffle. WHERE TERMINATING AT A WALL, PROVIDE FLUSH END. OTHERWISE PROVIDE MITERED ENDS AND OR CORNERS. PROVIDE EXPOSED HYBRID FRAME (FM-EF) WITH FRAME FLUSH WITH WALL MOUNTING (MP-DRXBN). PRICE: CF OR APPROVED EQUAL - SEE DETAIL C.M5.03.
 - 4 LINEAR BAR SUPPLY GRILLE, 0-DEG DEFLECTION, 32" BARS ON 14" SPACING WITH 3/4" FLANGED FRAME AND DIRECTIONAL VANES MOUNTED BEHIND GRILLE. LENGTH AND HEIGHT INDICATED ON PLANS. PRICE: UP-15A-750 OR APPROVED EQUAL.
 - 5 PROVIDE SLOT SUPPLY DIFFUSER WITH FLANGE PLASTER FRAME, CONCEALED MOUNTING AND SQUARE PLENUM. WHERE INSTALLED IN LAY-IN CEILING PROVIDE REGULAR LAY IN FRAME. DEVICES LONGER THAN 2'-0" SHALL BE PROVIDED WITH CONTINUOUS SLOTS WITH OUTSIDE FRAME AND MITERED CORNERS. WHERE PLENUM LENGTH EXCEEDS 4'-0" PROVIDE CUSTOM PLENUM LENGTH. INLET SIDE, NUMBER OF SLOTS AND SLOT WIDTH INDICATED ON PLANS. PRICE: SDS (TYPE 7 OR TYPE 17) SDB OR APPROVED EQUAL - SEE DETAIL B.M5.03.
 - 6 FIRE DAMPER AT SLAB PENETRATION. INSTALL ACCESS PANEL IN DUCT ABOVE SLAB WHERE INSTALLED IN MECHANICAL ROOM AND BELOW SLAB WHERE INSTALLED IN AN ENCLOSED CHASE - SEE DETAIL D.M5.03.
 - 7 PASSIVE WRAP AROUND HEAT PIPE ENERGY RECOVERY PIPING AND COILS.
 - 8 HORIZONTAL SUSPENDED FAN COIL UNIT ABOVE STAIRWELL CEILING - SEE DETAIL E.M5.01.
 - 9 GREASE EXHAUST DUCT AND DISHWASHER HOOD EXHAUST DUCT SHALL BE 16 GAUGE WELDED STAINLESS STEEL DUCTWORK WITH NO DAMPERS OR VANES. SLOPE DUCT BACK TO HOOD AT MINIMUM 1/4" PER FOOT - SEE SPECIFICATIONS.
 - 10 ROUTE CONDENSATE DRAIN SO NOT TO IMPEDE ACCESS TO HVAC UNIT IN ANY WAY AND TERMINATE OVER HUB - DRAIN SEE PLUMBING DRAWINGS FOR LOCATION OF HUB AND FLOOR DRAINS. SEE DETAILS H & J.M5.01.
 - 11 INSTALL ISOLATION VALVES, STRAINER, AND CONTROL VALVE IN HORIZONTAL SECTION OF PIPING. MAKE ALL DEVICES ACCESSIBLE AND DO NOT BLOCK ACCESS TO ANY DOORS OR PANELS OF UNIT. CONTROL VALVE SHALL BE INSTALLED WITH ACTUATOR FACING UP AND ABOVE PIPING. IT PORTS SHALL BE INSTALLED FACING UP SO AS NOT TO COLLECT DEBRIS. PROVIDE SPACE BELOW HOSE DRAIN VALVE ON STRAINER TO ATTACH DRAIN HOSE. SEE DETAILS A & G.M5.01.
 - 12 INSULATE GREASE AND DISHWASHER EXHAUST DUCT WITH 2-HR FIRE RATED DUCT WRAP FROM 2ND FLOOR SLAB TO ROOF DECK.
 - 13 AIR HANDLING UNIT TO BE INSTALLED ON CONCRETE FILLED INERTIA BASE FRAME WITH EXTERNAL SPRING ISOLATORS. SEE NOISE & VIBRATION CONTROL SPECIFICATION. PROVIDE DOUBLE DEFLECTION NEOPRENE MOUNTS BETWEEN BASE RAIL AND INERTIA BASE AT CORNERS AND MID SPAN. SEE DETAIL F.M5.02.
 - 14 SLOT DIFFUSER SHALL HAVE CUSTOM 20" HIGH PLENUM WITH SQUARE INLET TO MATCH RUNOUT DUCT AS NOTED.



1 Second Floor Plan - HVAC
SCALE: 3/16" = 1'-0"

2 2nd Floor Corridor C300B Section
3/8" = 1'-0"



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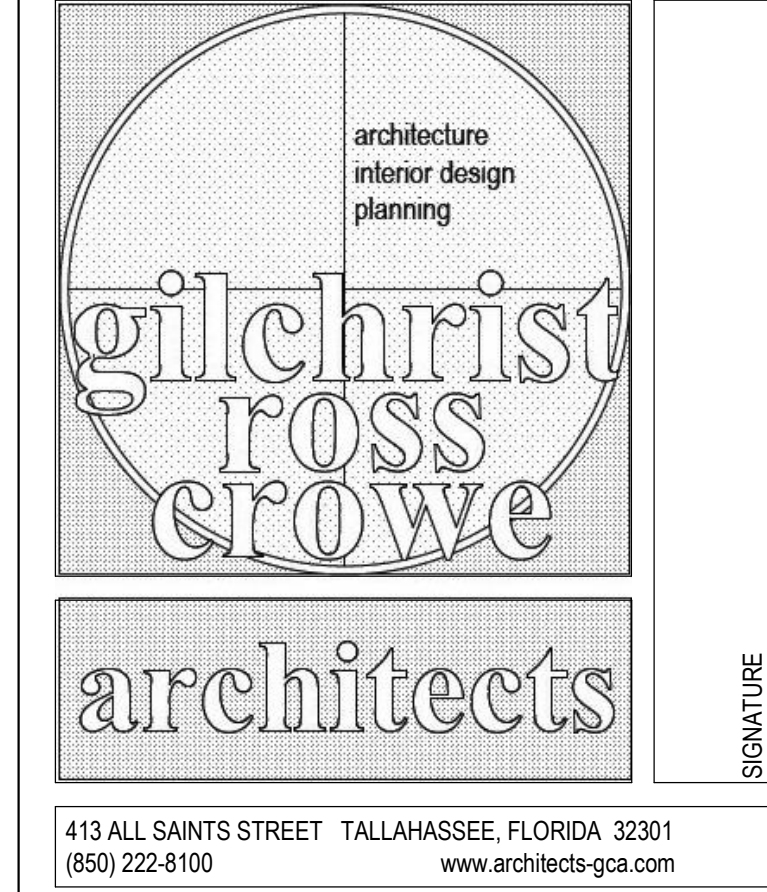
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1	REVISION 1 - ADDENDA 1	07-09-26

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Community
Center**

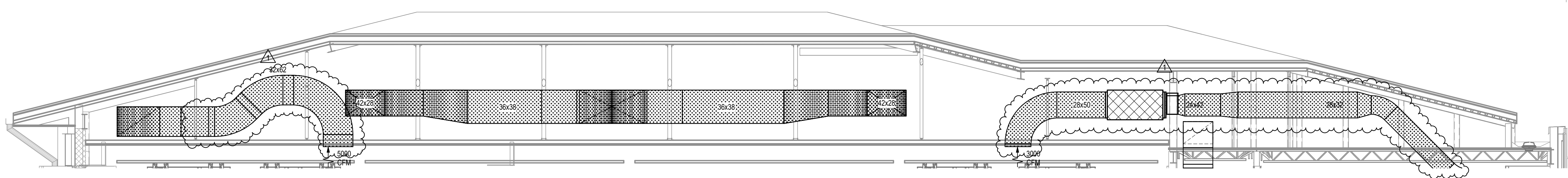
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DRAWING NAME
Second Floor Plan

SHEET
M1.12



3 Community Room Attic Duct
M1.13 3/16" = 1'-0"

- ① DEMOLISH EXISTING CHILLER AND INSTALL NEW AIR COOLED CHILLER TO REPLACE EXISTING. REMOVE PIPING CONNECTIONS AND APPURTENANCES AS NECESSARY TO MAKE-UP NEW CONNECTION. PROVIDE NEW APPURTENANCES IN NEW PIPING. - SEE DETAIL CM5.01.
- ② DEMOLISH EXISTING PUMP AND SUCTION DIFFUSER AND INSTALL NEW PUMP AND SUCTION DIFFUSER. REMOVE EXISTING PIPING CONNECTIONS AND APPURTENANCES AND NECESSARY TO MAKE-UP NEW CONNECTION. PROVIDE NEW APPURTENANCES TO REPLACE ANY REMOVED DEVICES IN NEW PIPING. - SEE DETAIL FM5.01.
- ③ PROVIDE CONTINUOUS ARCHITECTURAL SURFACE MOUNT SLOTE GRILLE ALONG EDGE OF CEILING WITH 1" X 1/2" SLOTE. PROVIDE FULLY OPEN SLOTE (RT) AND RETURN AIR SLOTE (Baffle). Wherever installed at a wall, provide FLUSH END. OTHERWISE PROVIDE MITERED ENDS AND OR CORNERS. PROVIDE EXPOSED HYBRID FRAME (FM-FE) WITH FRAME FLUSH WITH WALL MOUNTING (MP-DHBN). PRICE: OF APPROVED ALUO. - SEE DETAIL CM5.03.
- ④ LINEAR BAY SUPPLY GRILLE, 0.062 DEFLECTION, 332" BAYS AT 14" SPACING WITH 34" FLANGED FRAME AND DIRECTIONAL VANE, DANGLED BEHIND GRILLE. LENGTH AND HEIGHT INDICATED ON PLANS. PRICE: OF APPROVED ALUO. - SEE DETAIL CM5.04.
- ⑤ INSTALL SUPPLY DIFFUSER WITH FLANGE PLASTER FRAME. CONCEALED MOUNTING AND SQUARE PLENUM. WHERE INSTALLED IN LAY-IN CEILING PROVIDE REGULAR IY IN FRAME. DEVICES LONGER THAN 2'4" SHALL BE PROVIDED WITH CONTINUOUS SLOTS WITH OUTSIDE FRAME AND MITERED ENDS. LENGTH OF EXHAUST SHALL BE 4'0" PROVIDE CUSTOM LENGTH. LENGTH INLET SIDE, NUMBER OF SLOTS AND SLOTE WIDTH INDICATED ON PLANS. PRICE: S05 (TYPE Y OR TYPE 17) S08 OR APPROVED ALUO. - SEE DETAIL BM5.03.
- ⑥ FIRE DAMPER AT SLAB PENETRATION. INSTALL ACCESS PANEL IN DUCT ABOVE SLAB WHERE INSTALLED IN MECHANICAL ROOM AND BELOW SLAB WHERE INSTALLED IN AN ENCLOSED SPACE. - SEE DETAIL DM5.03.
- ⑦ PASSIVE WRAP AROUND HEAT PIPE ENERGY RECOVERY PIPING AND COOLS.
- ⑧ HORIZONTAL SUSPENDED FAN COIL UNIT ABOVE STAIRWELL CEILING. - SEE DETAIL EM5.01
- ⑨ GEAUSE EXHAUST DUCT AND DISHWASHER HOOD EXHAUST DUCT SHALL BE 16 GAUGE WELDED STAINLESS STEEL DUCTWORK WITH NO DAMPERS OR VANES. SLOPE DUCT BACK TO HOOD AT MINIMUM 1/4" PER FOOT. - SEE SPECIFICATIONS.
- ⑩ ROUTE CONDENSATE DRAIN SO NOT TO IMPRDE ACCESS TO HVAC UNIT IN ANY WAY AND TERMINATE DRAIN TO OUTSIDE. PROVIDE PLUMBING DRAWINGS FOR LOCATION OF HUB AND FLOOR DRAINS. SEE DETAILS J & JM5.01.
- ⑪ INSTALL ISOLATION VALVES, STRAINER, AND CONTROL VALVE IN HORIZONTAL SECTION OF PIPING. MAKE ALL DEVICES ACCESSIBLE AND DO NOT BLOCK ACCESS TO ANY DOORS OR PANELS OF UNIT. CONTROL VALVE SHALL BE INSTALLED WITH ACTUATOR FACING UP AND ABOVE PIPING. PT PORTS SHALL BE USED FOR LEAK DETECTION OR NOT TO SELECT DETECTION. PROVIDE SLOPE BELOW HOOD DRAIN VALVE ON STRAINER TO ATTACH DRAIN HOSE. SEE DETAILS S & GM5.01.
- ⑫ INSULATE GEAUSE AND DISHWASHER EXHAUST DUCT WITH 2" R FIRE RATED WRAP FROM WRAP AND FLOOR SLAB TO ROOF DECK.
- ⑬ AIR HANDLING UNIT TO BE INSTALLED ON CONCRETE FILLD INERTIA BASE WITH EXTERNAL SPRING ISOLATORS, SEE NOISE & VIBRATION CONTROL SPECIFICATION. PROVIDE DOUBLE DUCT AND SPRING MOUNTING BETWEEN BASE RAIL AND INERTIA BASE AT CORNERS AND SPAN. SEE DETAIL FM5.02.
- ⑭ SLOTE DIFFUSER SHALL HAVE CUSTOM 20" HIGH PLENUM WITH SQUARE INLET TO MATCH RUNOUT DUCT AT NOTED.

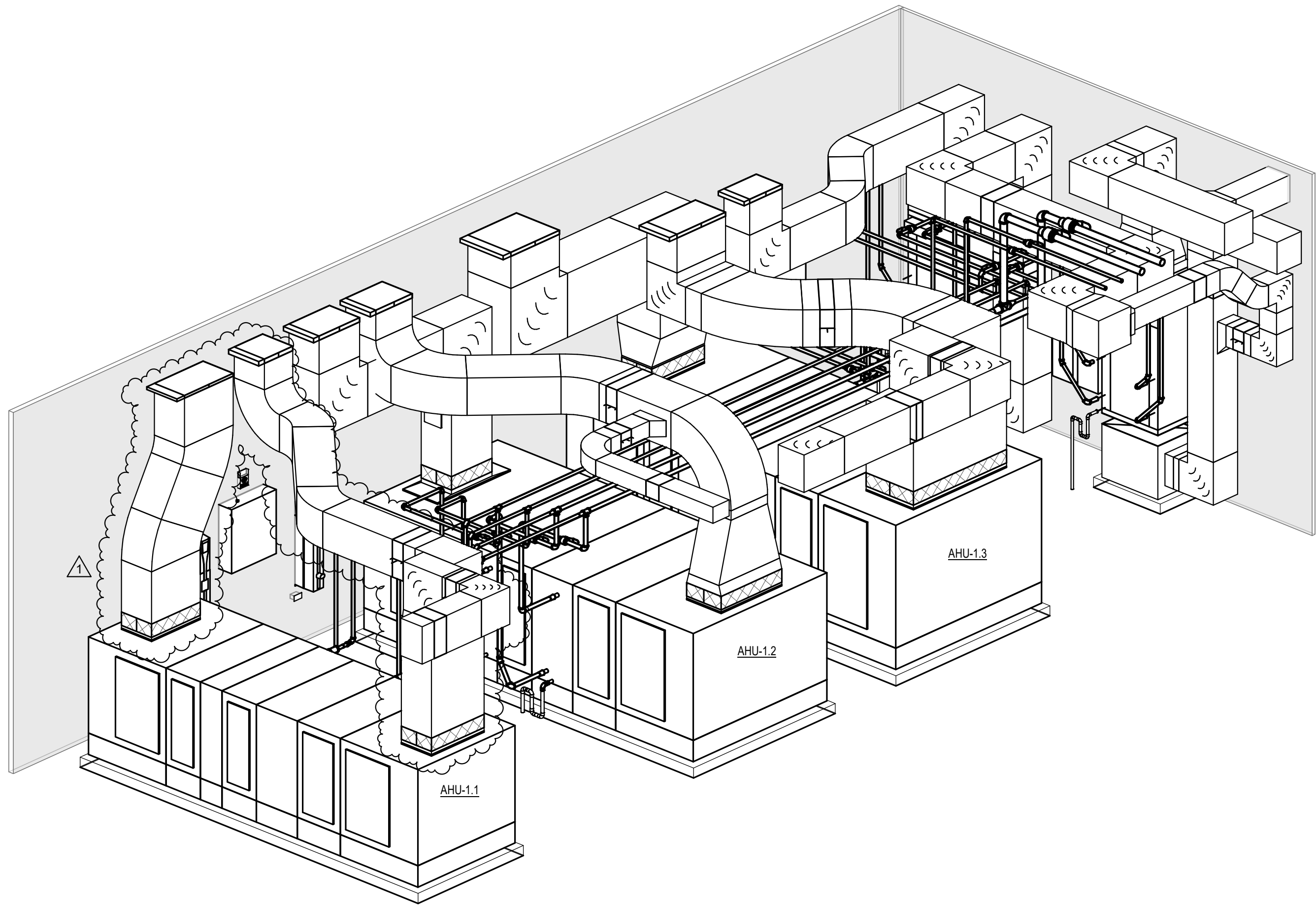
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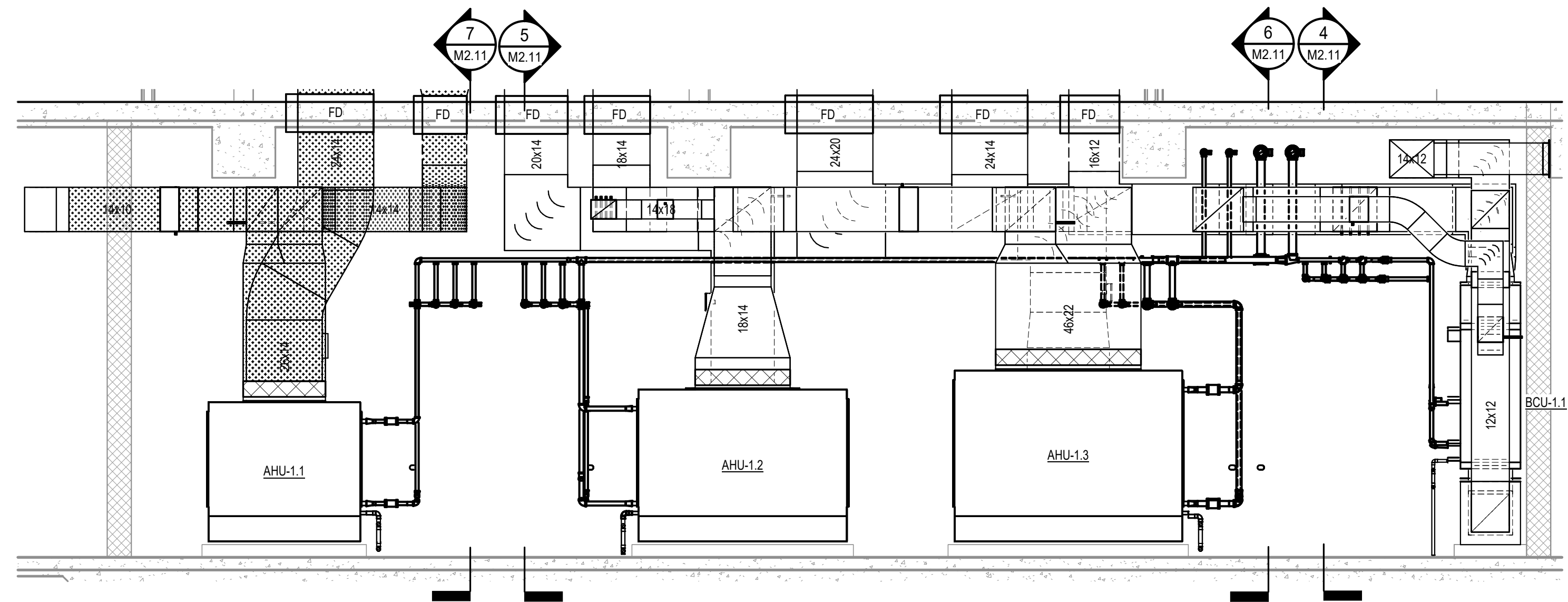
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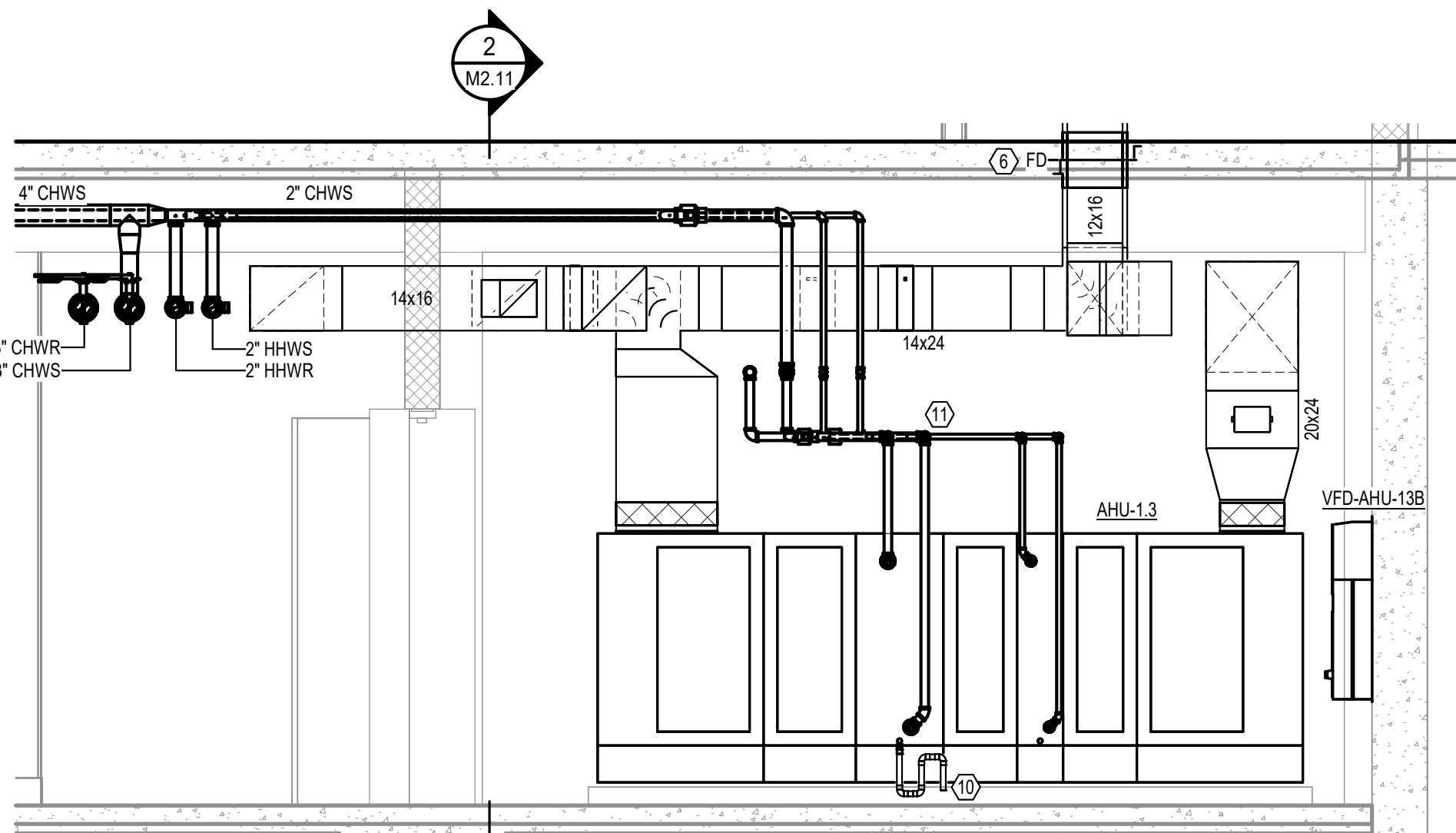




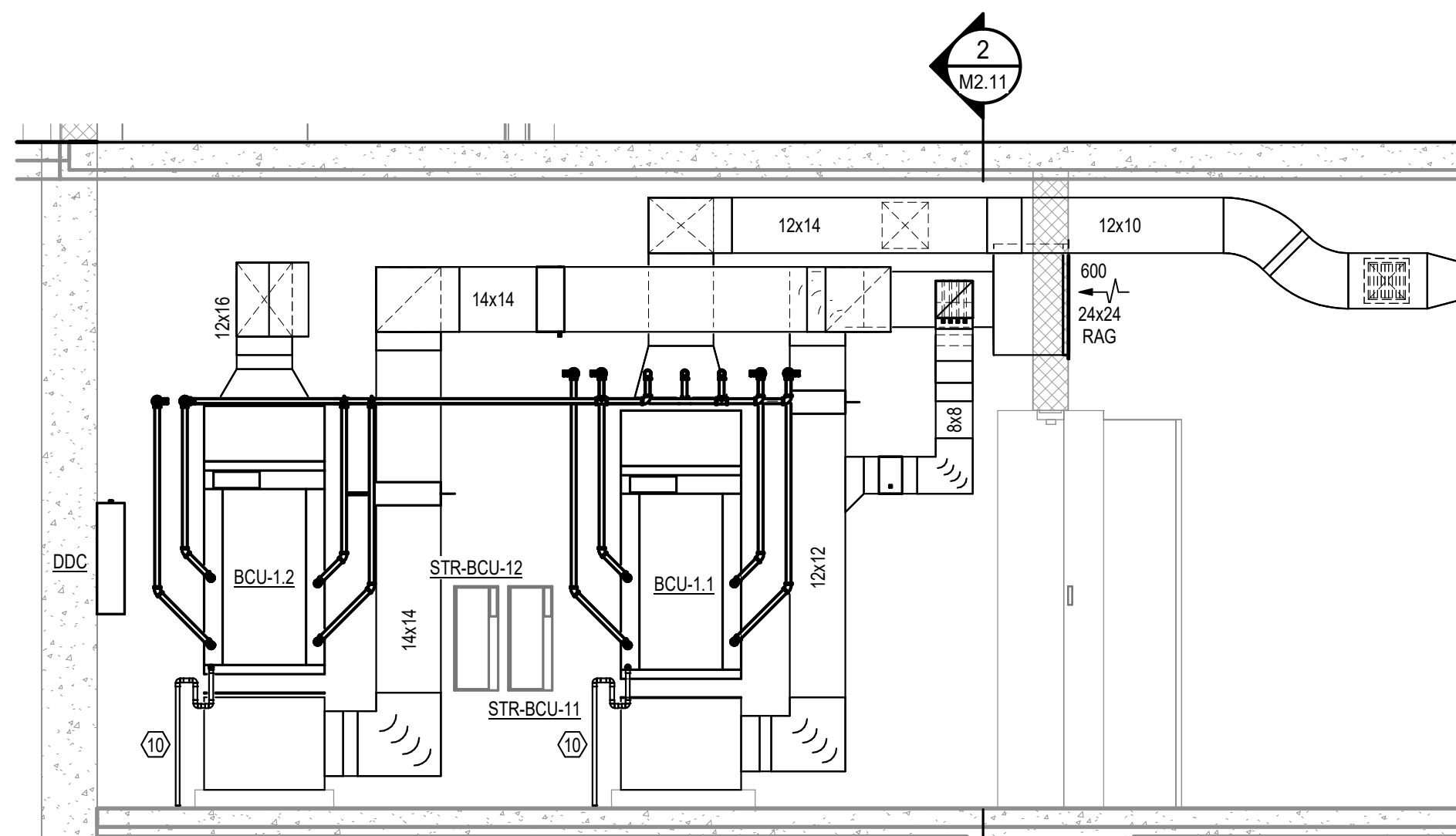
3 Mech Rm C100-2 - Perspective
M2.11



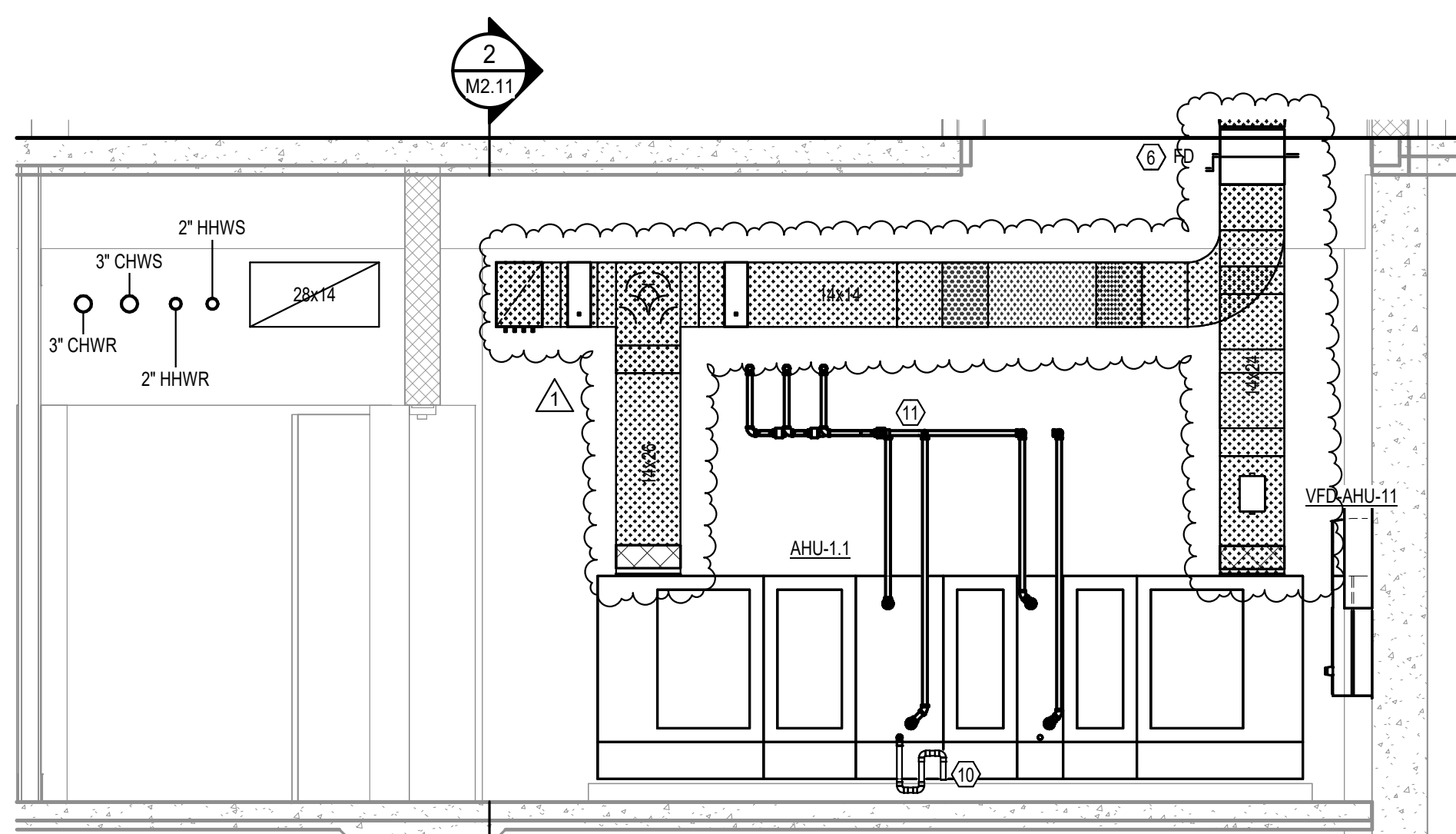
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M2.11 3/8" = 1'-0"



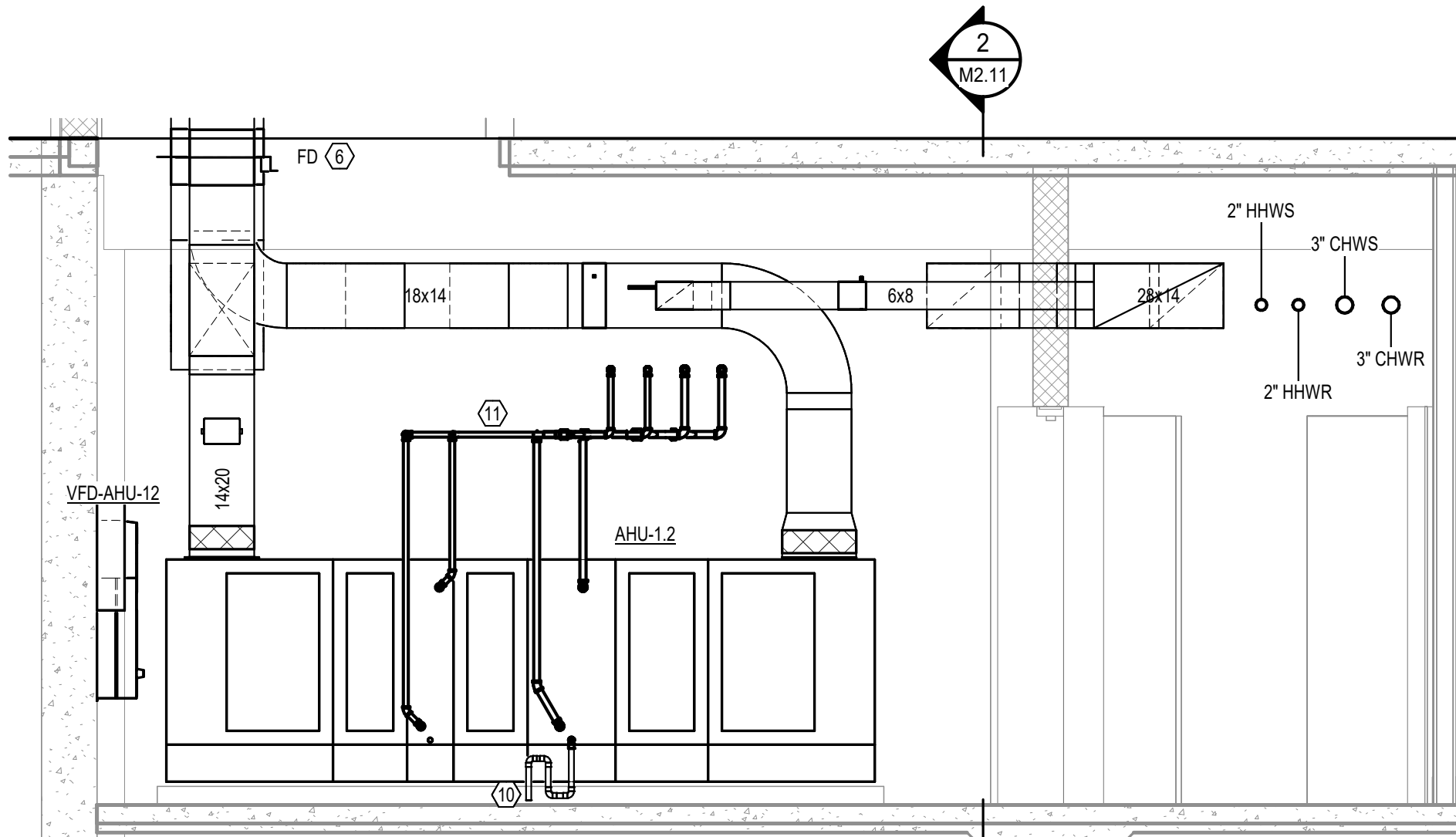
6 Mech Rm C100-2 - AHU-1.3 Elevation
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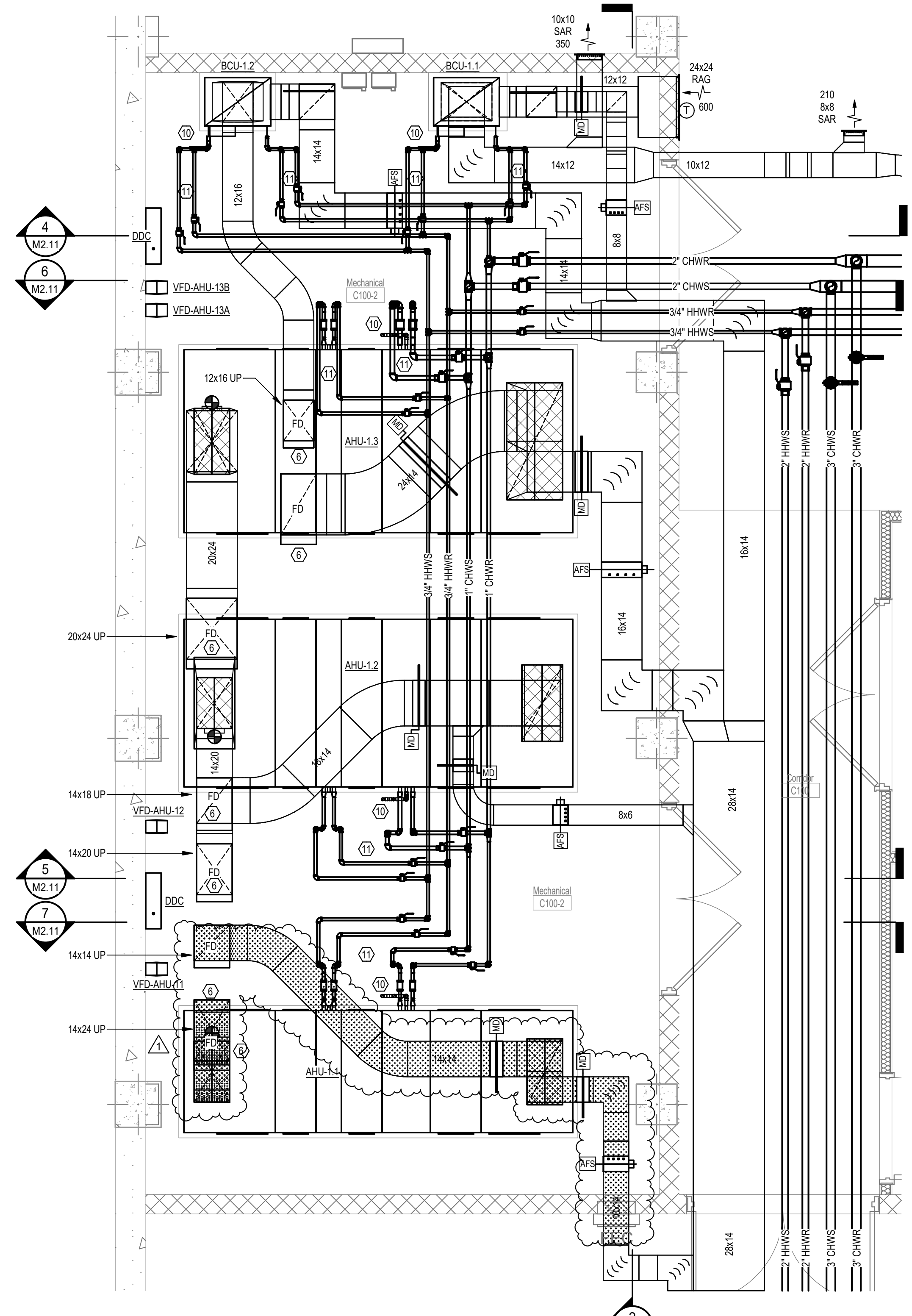
4 Mech Rm C100-2 - BCU-1.1 & 1.2 Elevation
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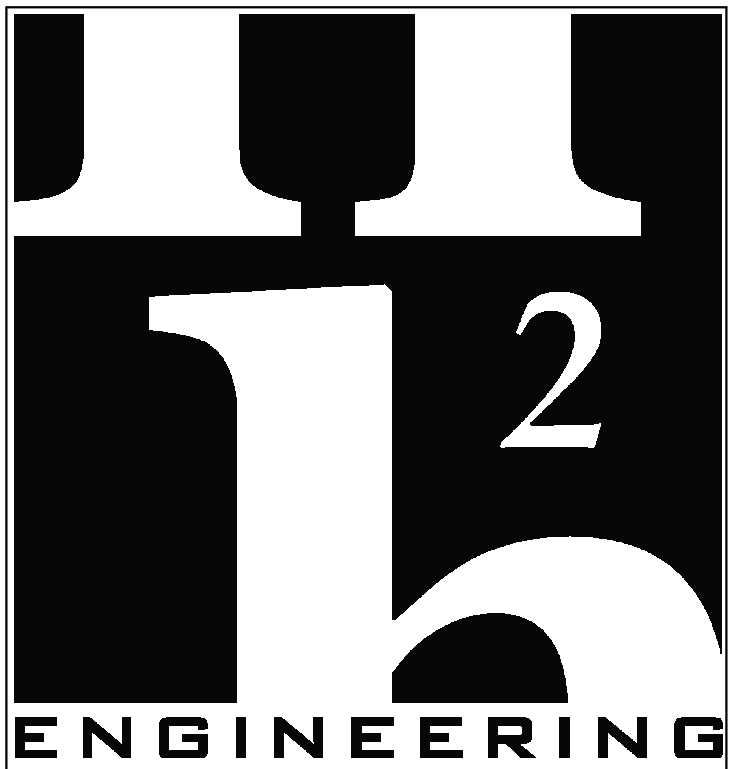
7 Mech Rm C100-2 - AHU-1.1 Elevation
M2.11 3/8" = 1'-0"



5 Mech Rm C100-2 - AHU-1.2 Elevation
M2.11 3/8" = 1'-0"



1 Enlarged Plan - Mech Rm C100-2
M2.11 3/8" = 1'-0"



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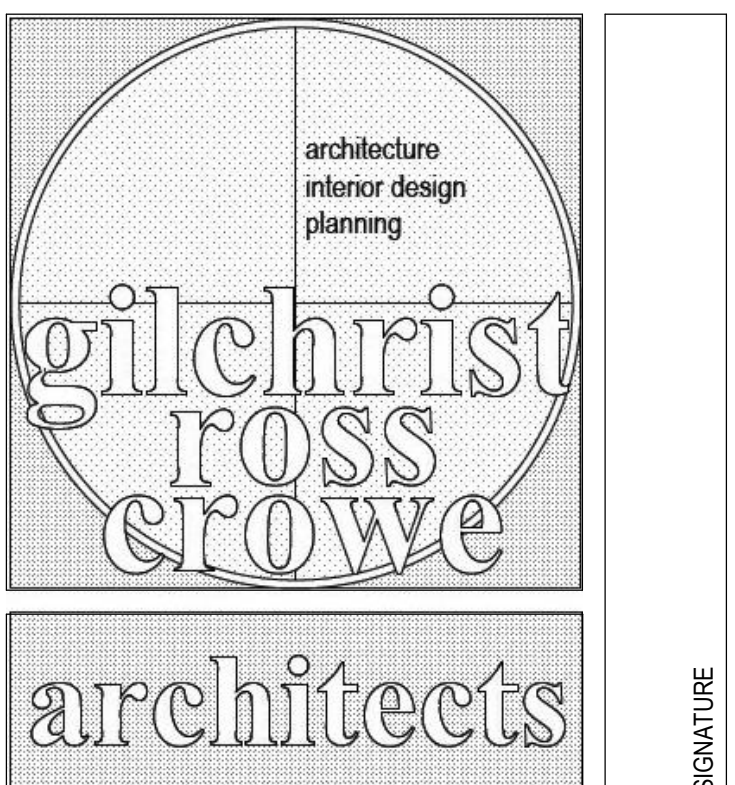
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REVIEWED BY:	MTS	MTS	MTS	MTS		
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DRAWING NAME
**Mech Room
C100-2 Enlarged
Plan & Sections**

SHEET
M2.11

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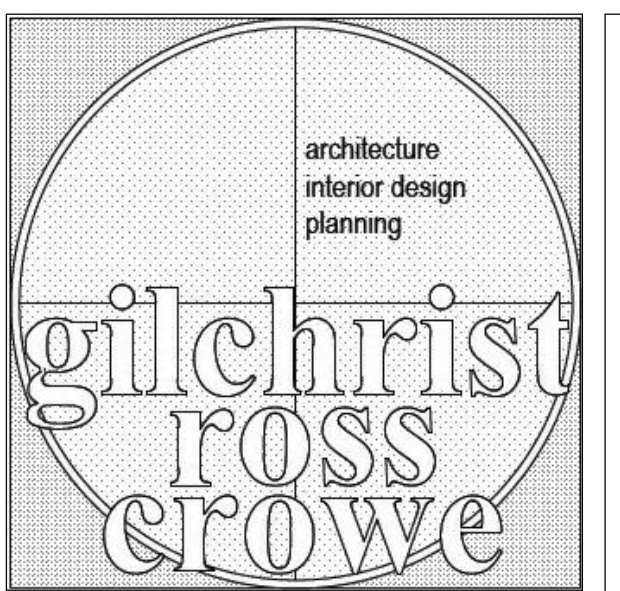
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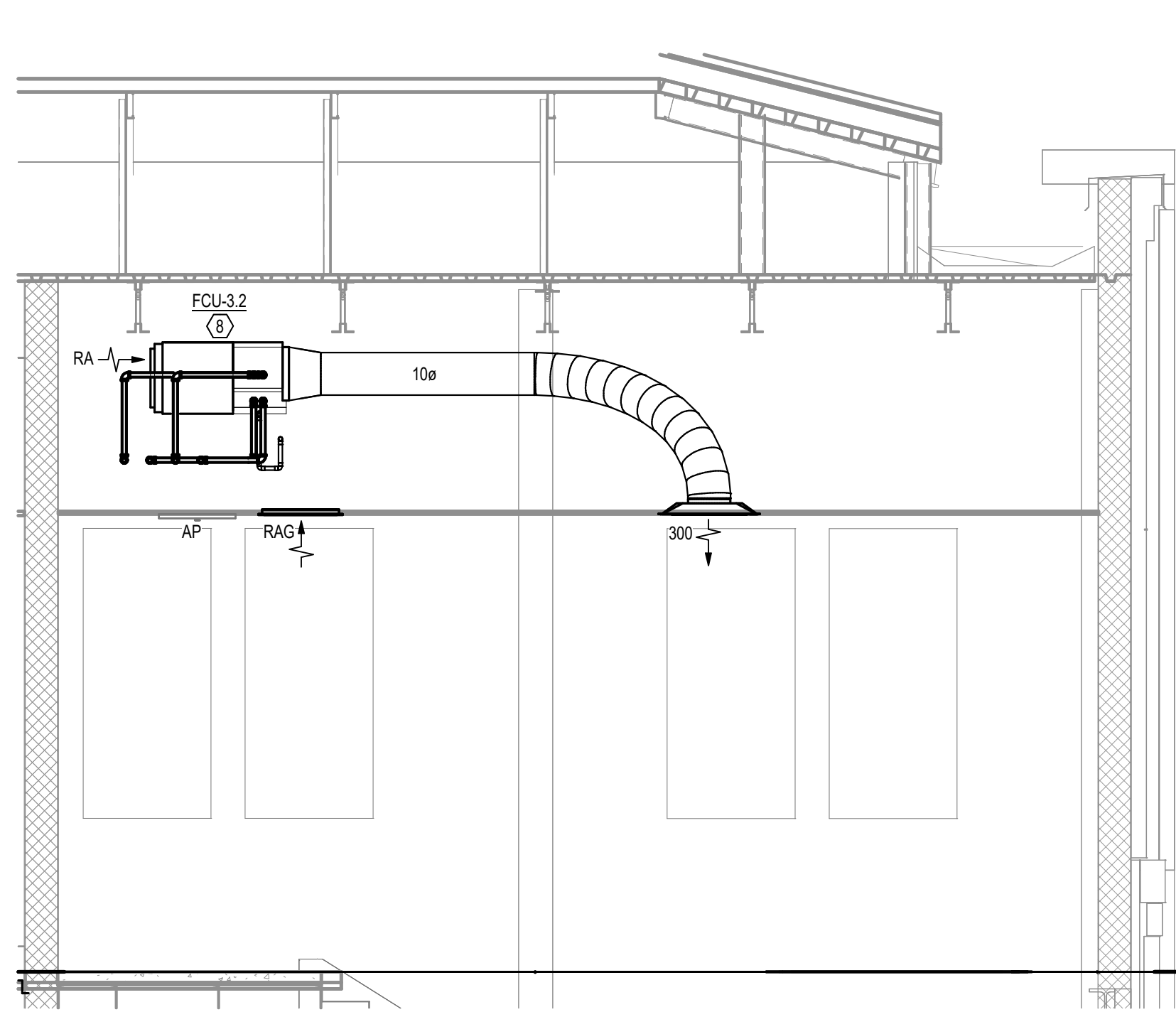
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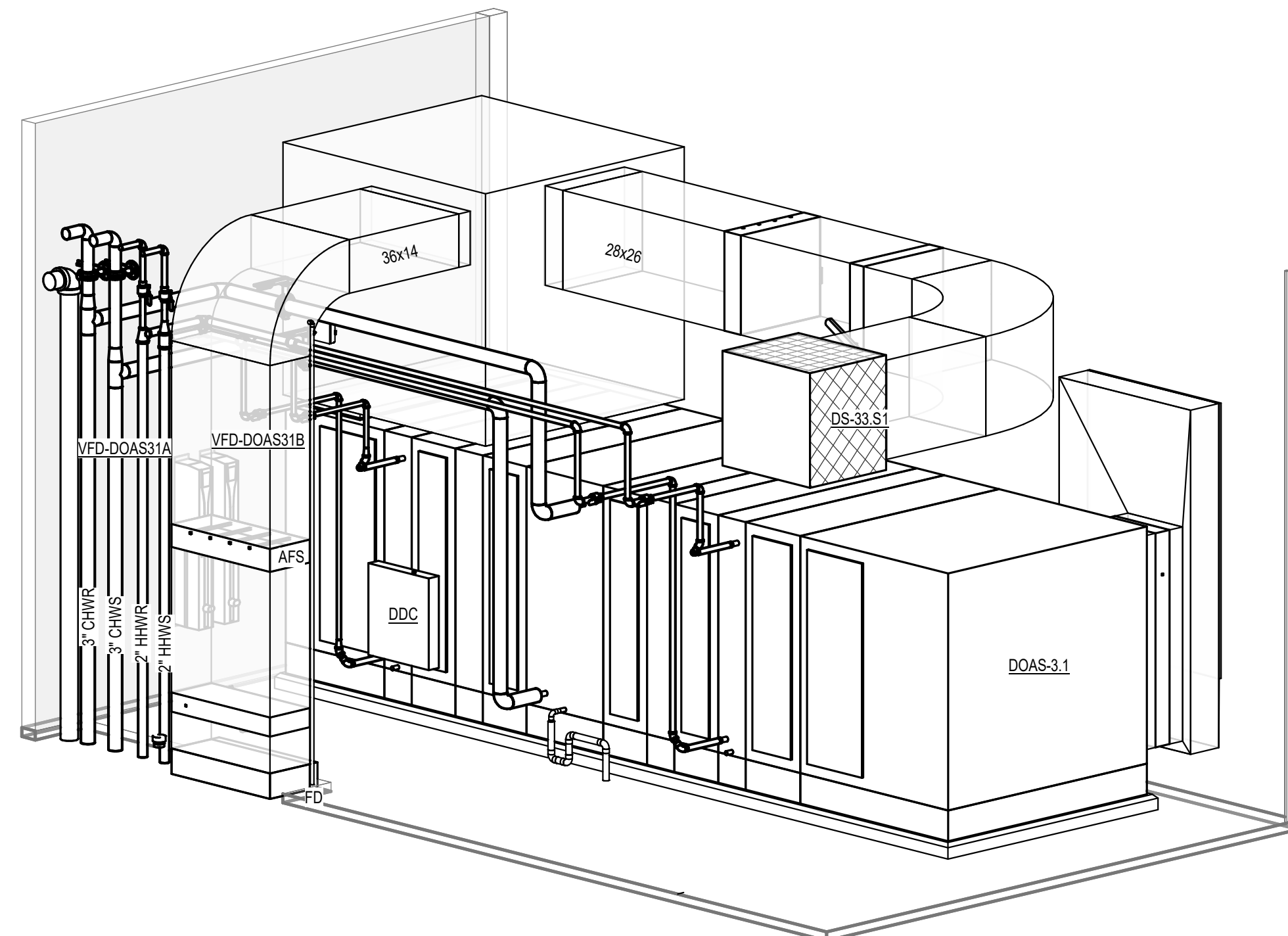
DRAWING NAME
Mech Room
C300-8 Enlarged
Plan & Sections

SHEET

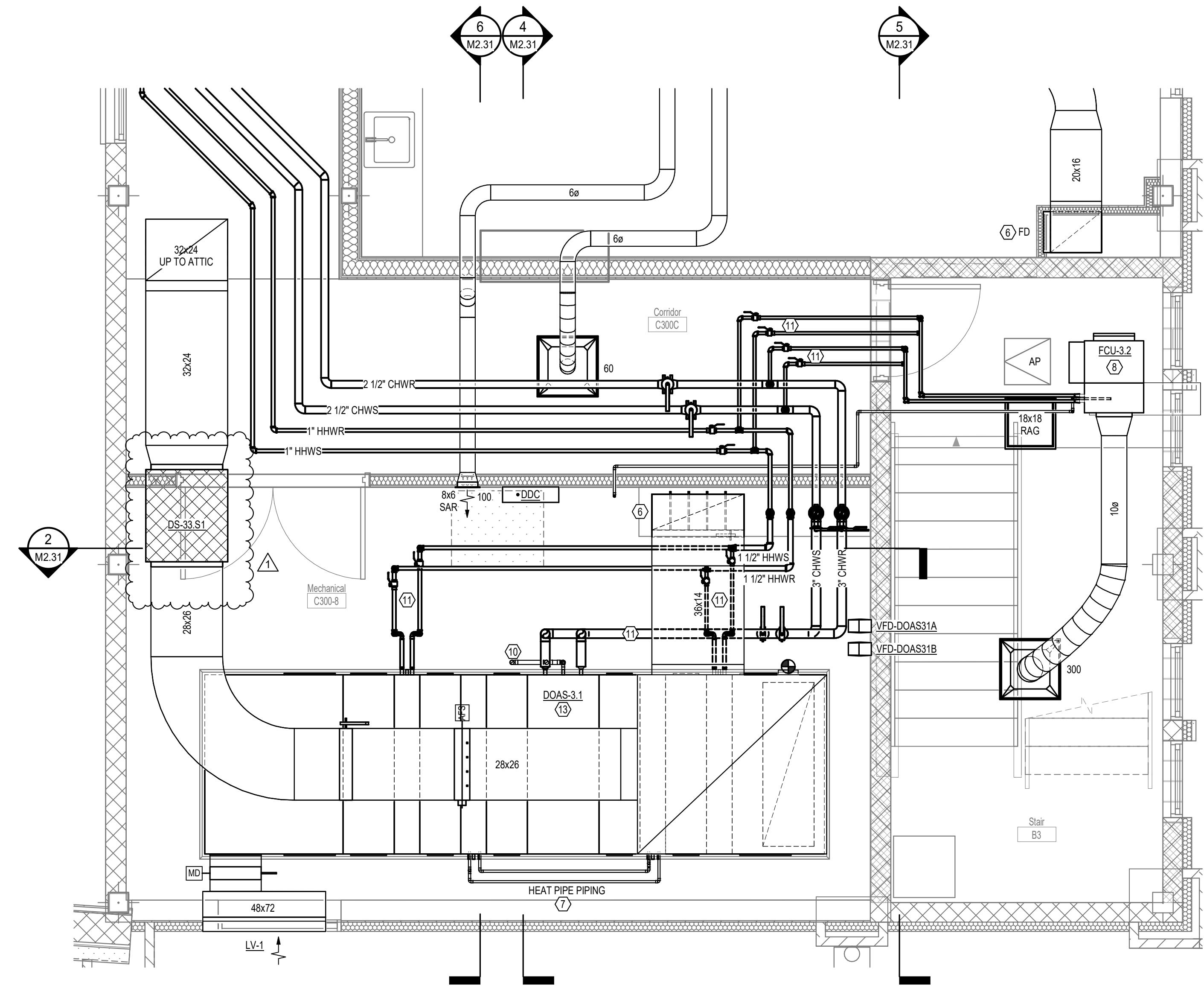
M2.31



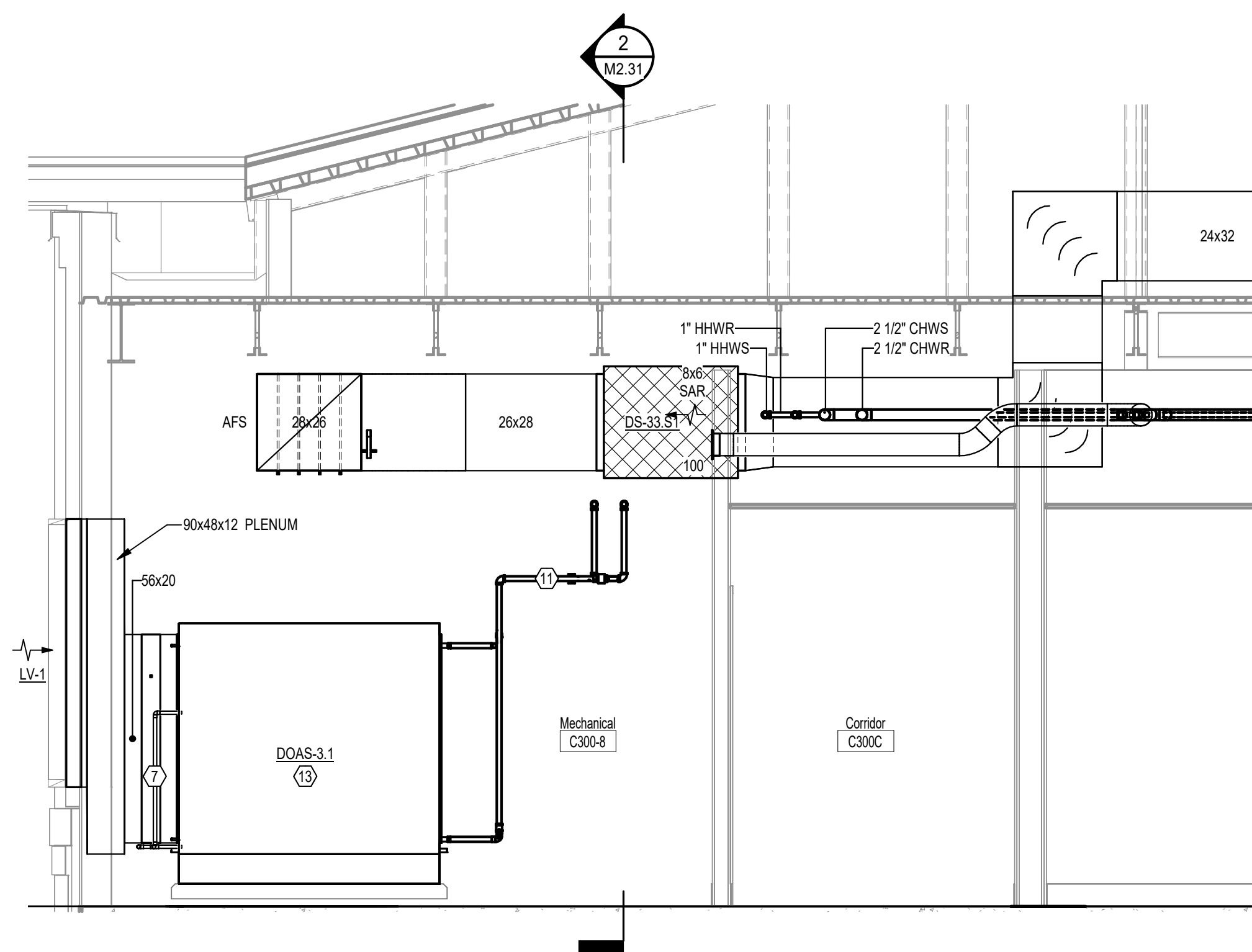
5 Stair B3 - FCU-3.2 Elevation
M2.31 $3/8" = 1'-0"$



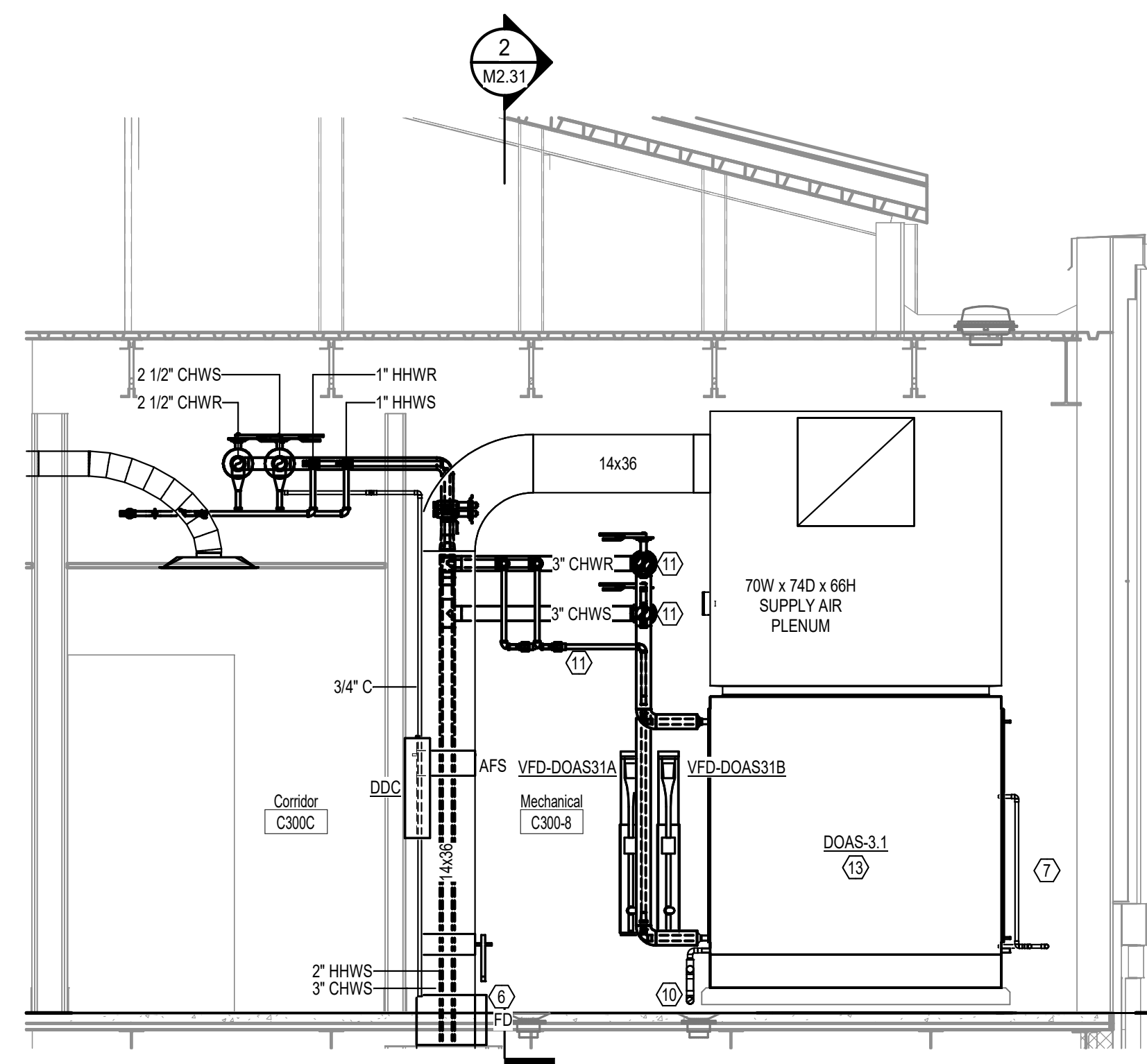
3 Mech Rm C300-8 - Perspective
M2.31



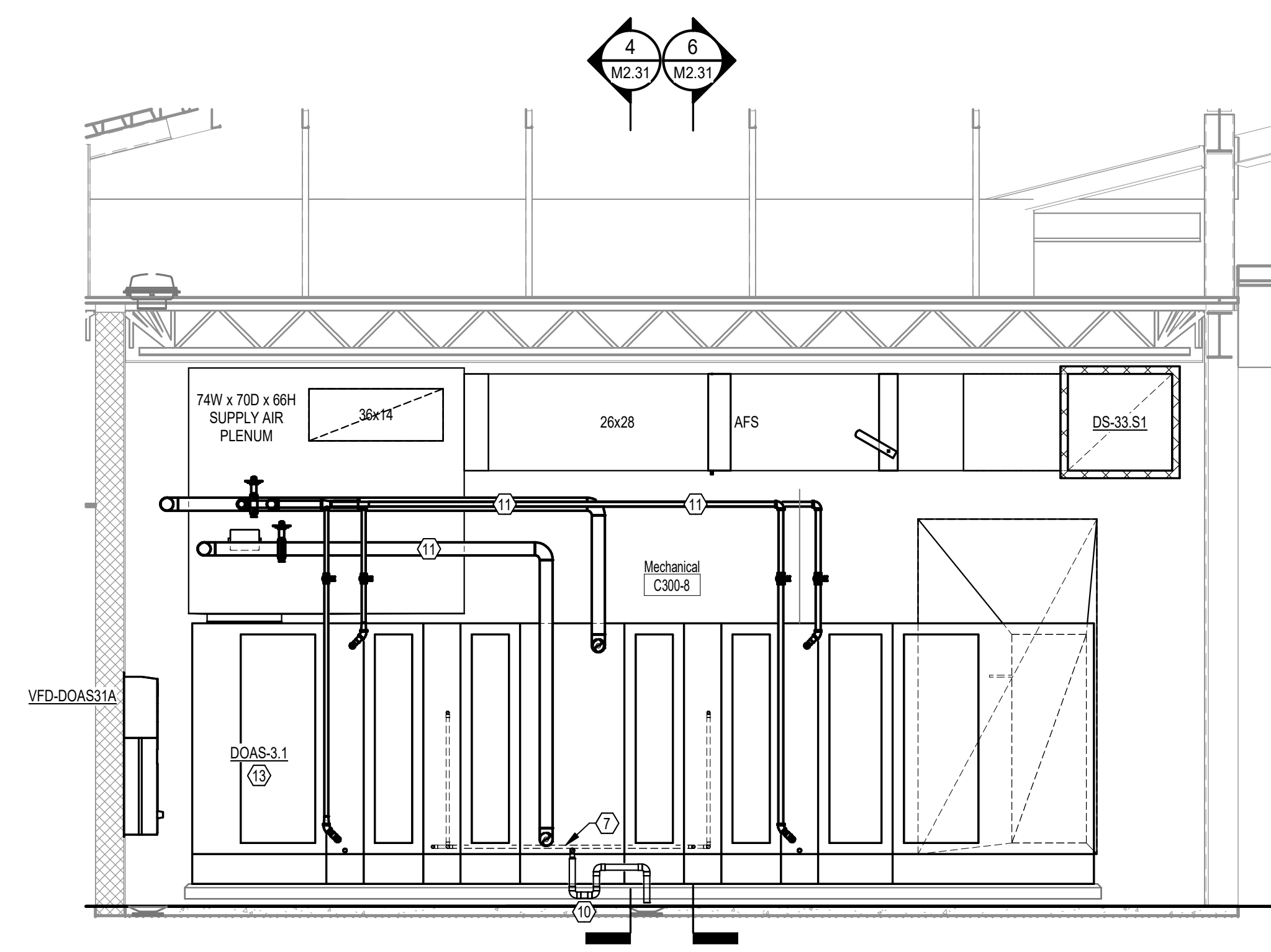
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M2.31 3/8" = 1'-0"



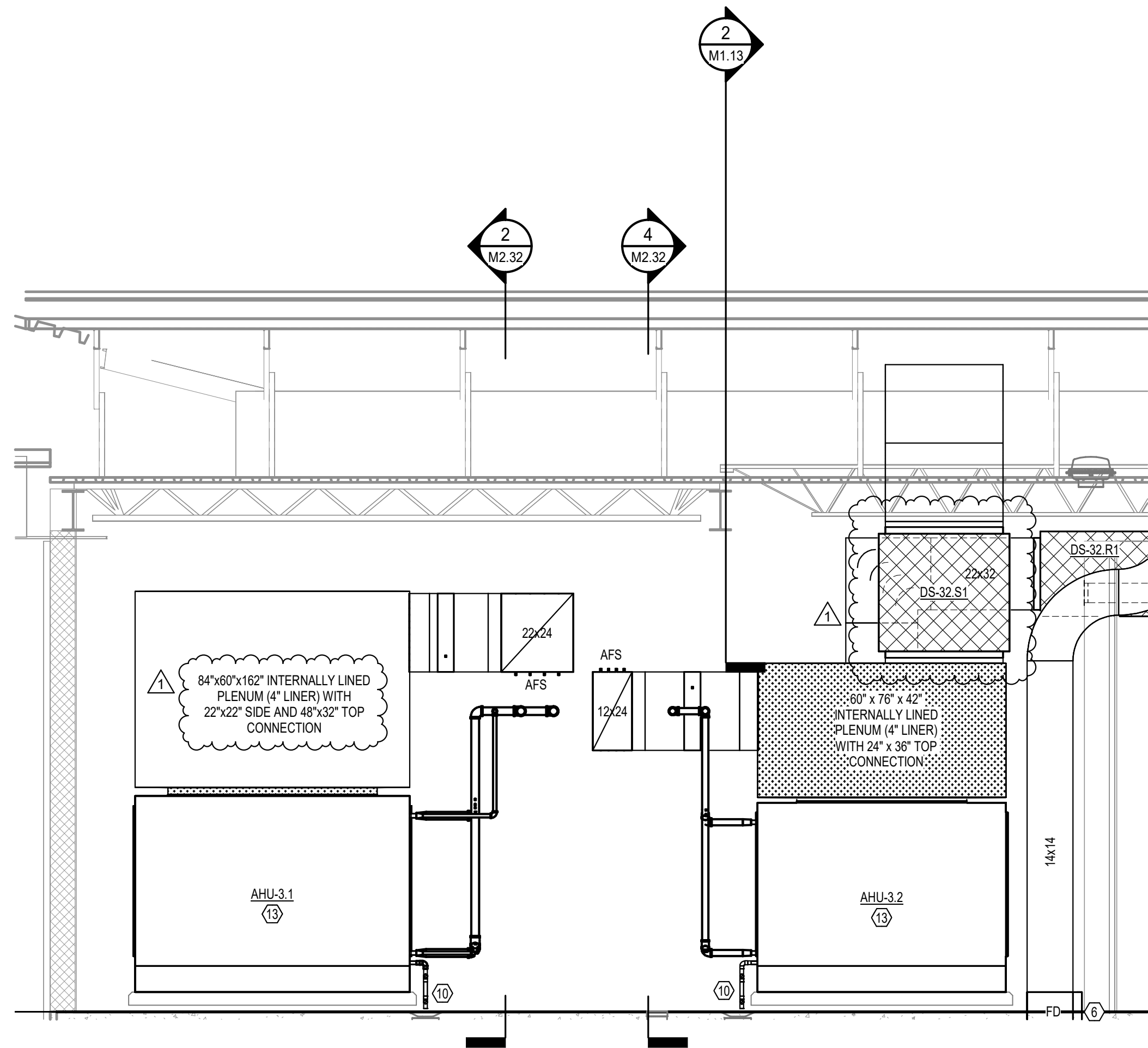
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M2.31 $3/8" = 1'-0"$



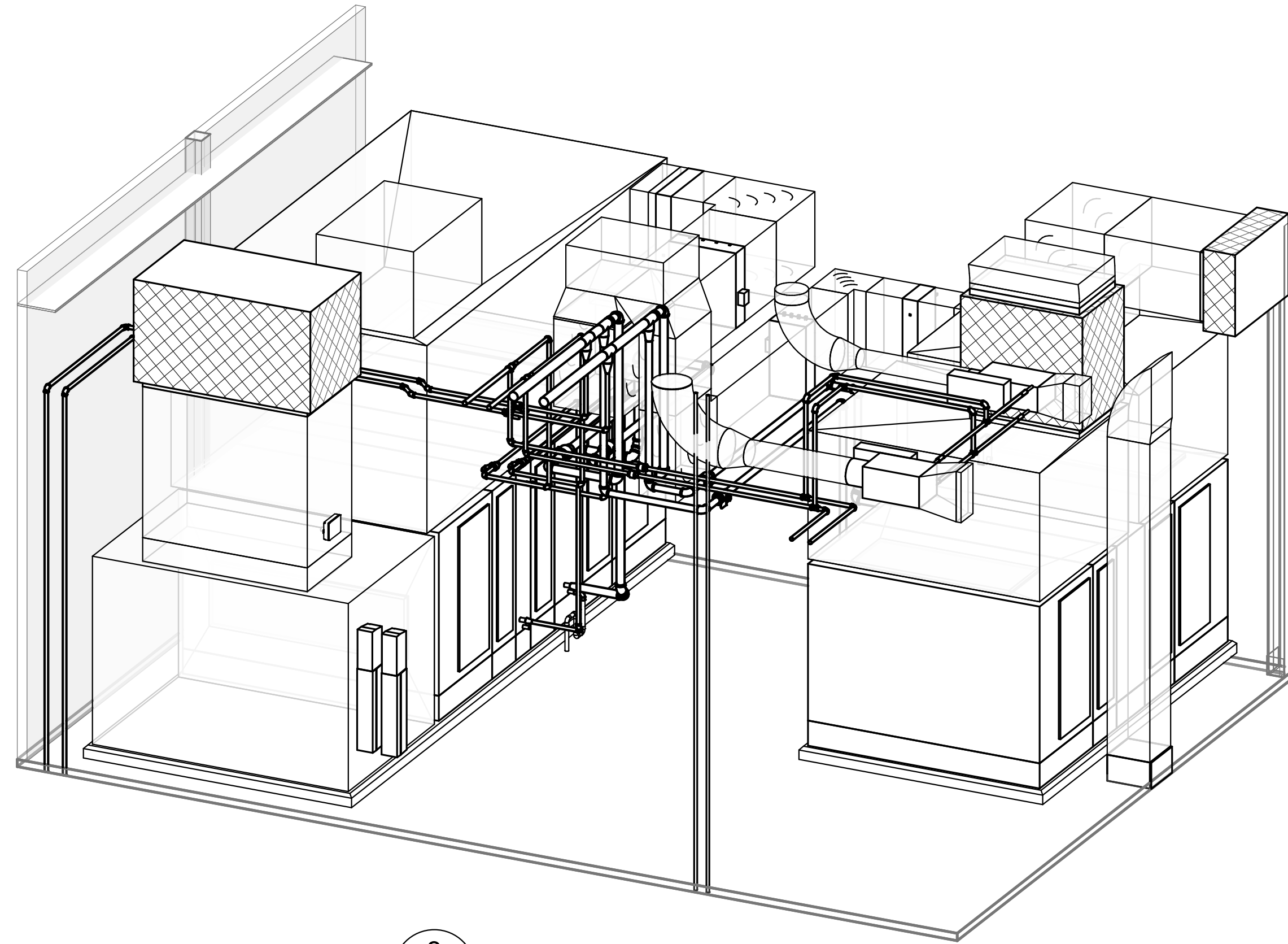
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M2.31 3/8" = 1'-0"



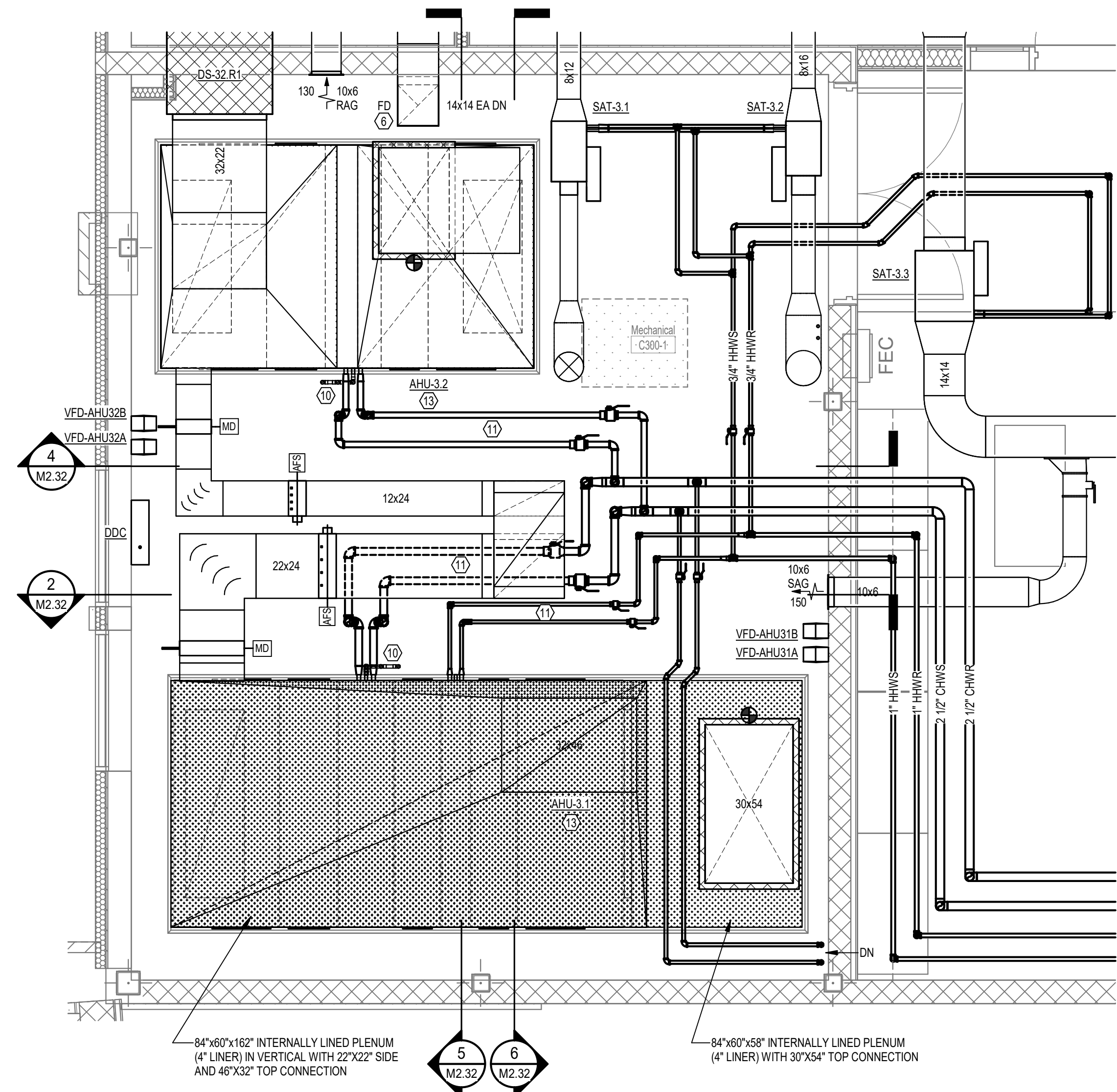
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M2.31 $3/8" = 1'-0"$



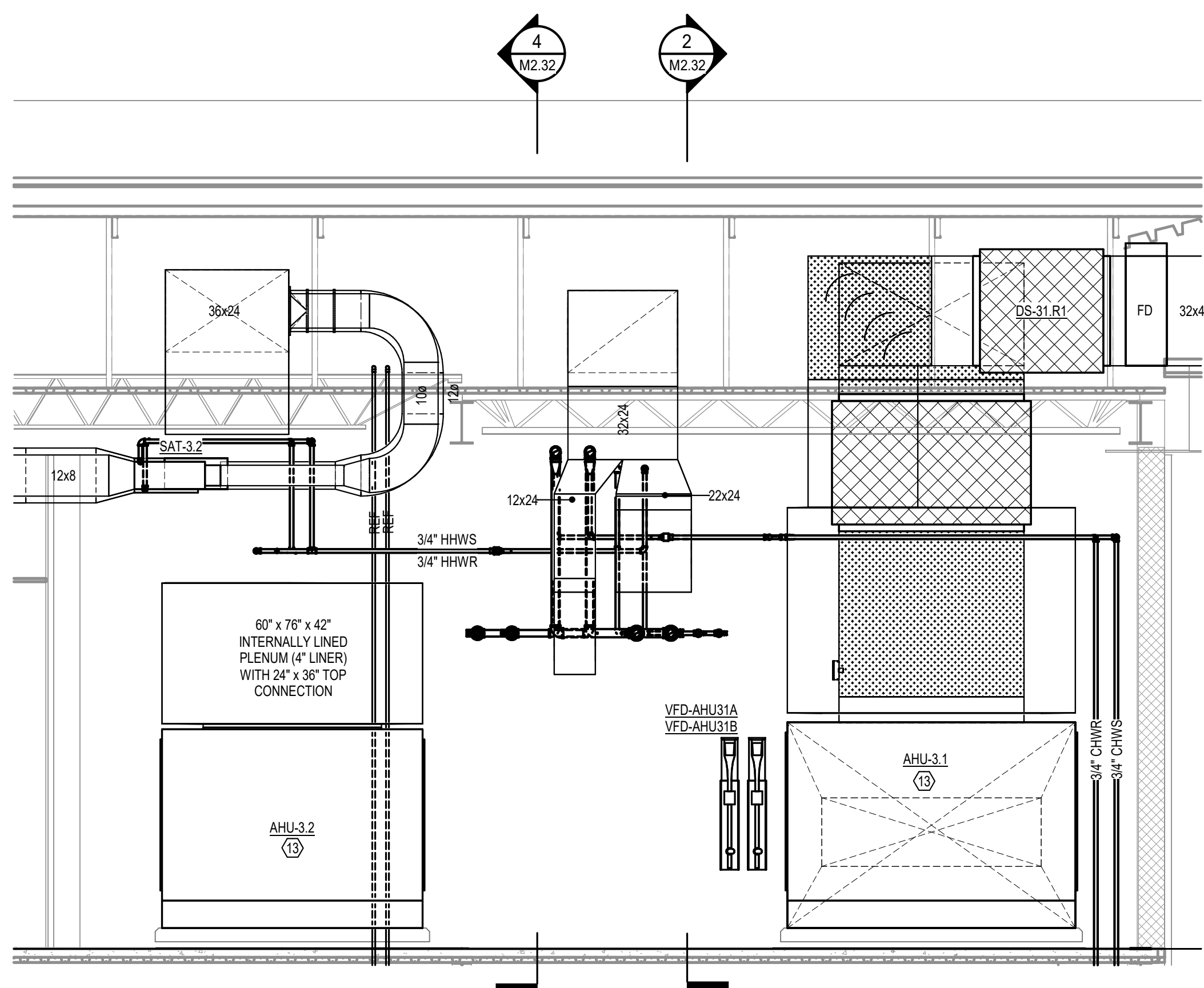
5 Mech Rm C300-1 - West Elevation
3/8" = 1'-0"



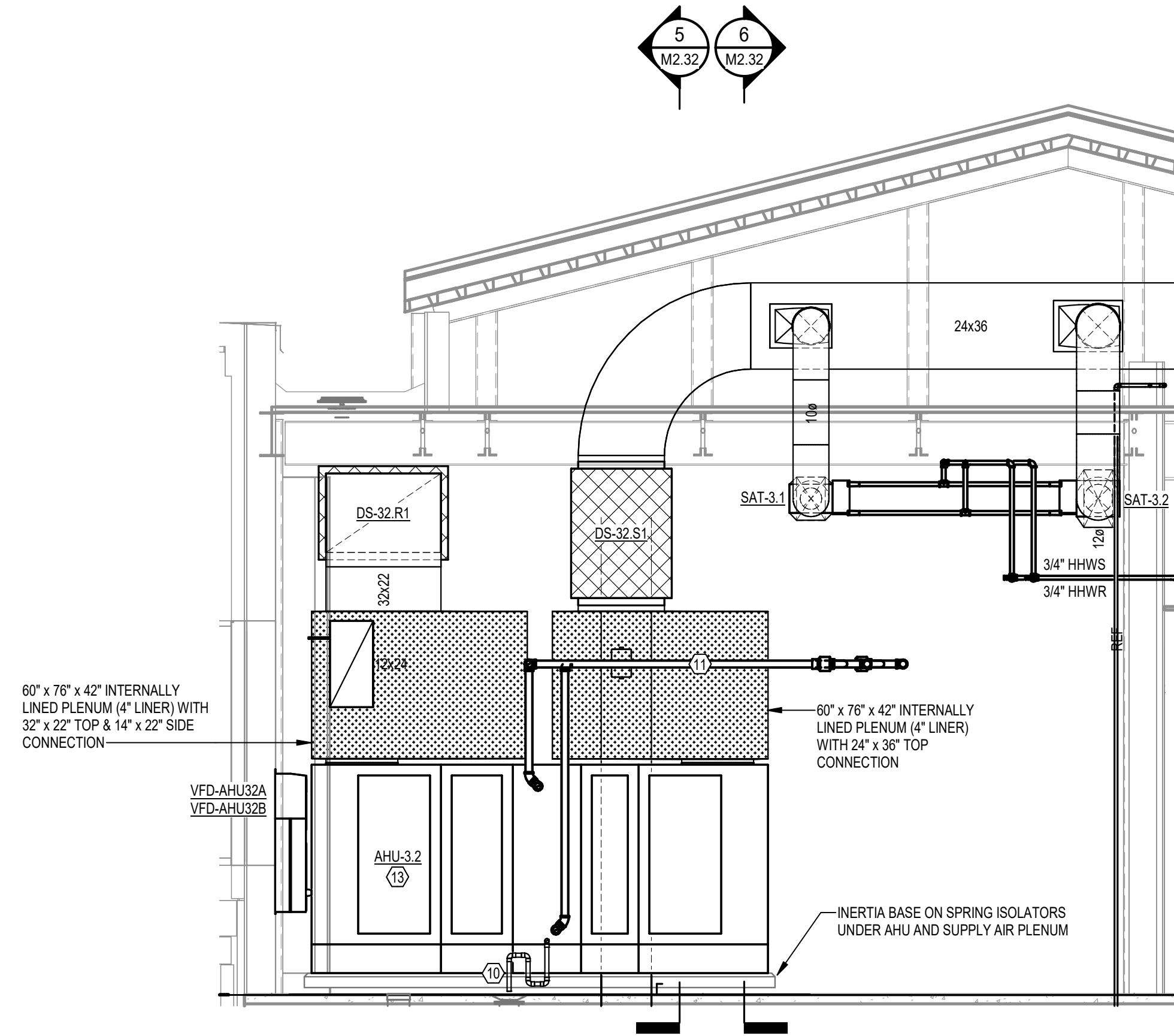
3 Mech Rm C300-1 - Perspective
3/8" = 1'-0"



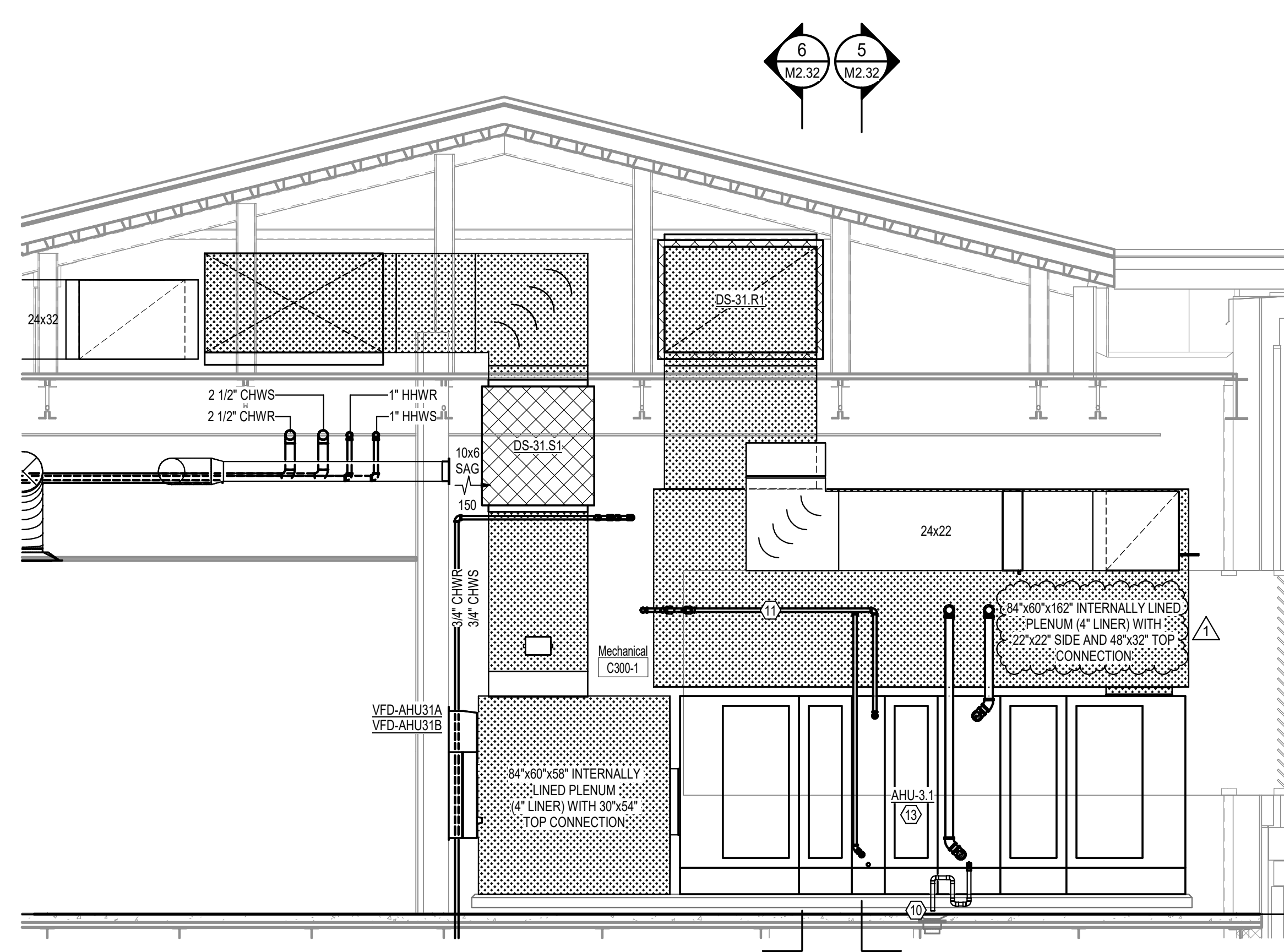
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3/8" = 1'-0"



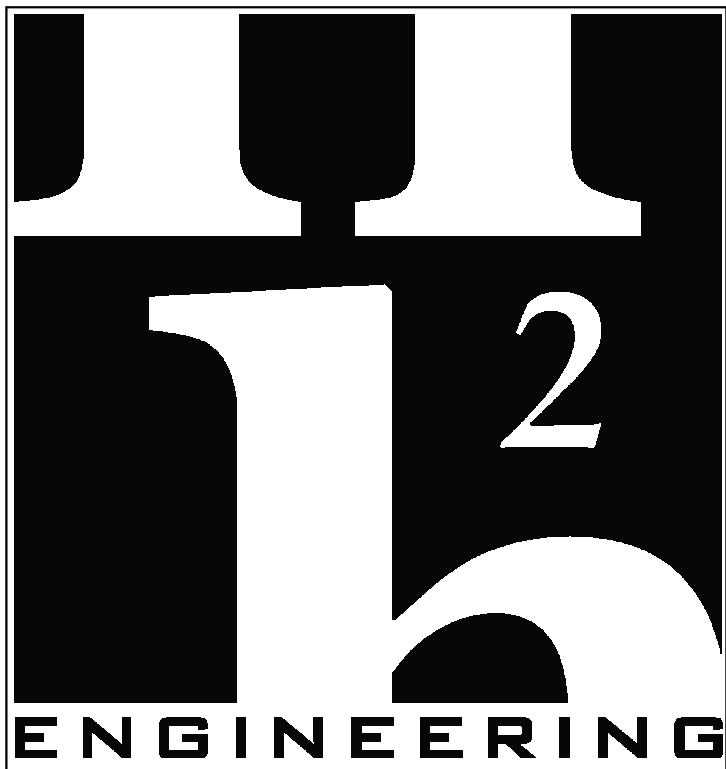
6 Mech Rm C300-1 - East Elevation
3/8" = 1'-0"



4 Mech Rm C300-1 - AHU-3.2 Elevation
3/8" = 1'-0"



2 Mech Rm C300-1 - AHU-3.1 Elevation
3/8" = 1'-0"



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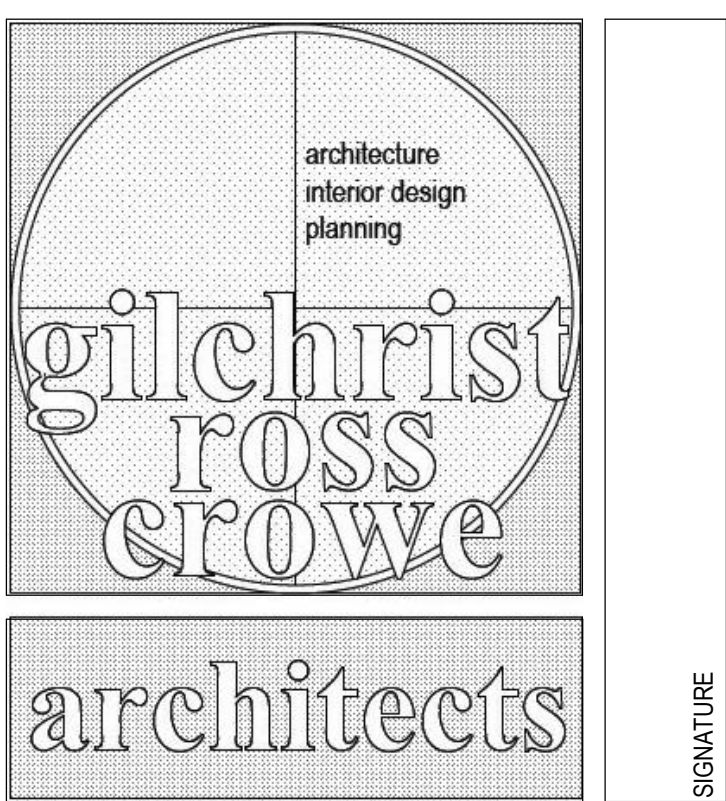
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H2Engineering Inc
114 E 5th Ave
Tallahassee, FL 323203
(850) 224-7922

PHASE:	BY:	DATE:
DESIGN DEVELOPMENT	JDR	6-27-25
65% CONSTR DOCUMENTS	JDR	1-30-26
95% CONSTR DOCUMENTS	JDR	4-14-26
100% CONSTR DOCUMENTS	MTS	6-9-26
CONTRACT DOCUMENTS		
PERMIT DOCUMENTS		

1	REVISION 1 - ADDENDA 1	07-09-26

**Good Shepherd
Catholic Church
Community
Center**

4665 Thomasville Rd,
Tallahassee, FL 32309
GRC Project Number 21275



413 ALL SAINTS STREET TALLAHASSEE, FLORIDA 32301
(850) 222-8100
www.architects-gca.com

DRAWING NAME
**Mech Room
C300-1 Enlarged
Plan & Sections**

SHEET
M2.32

FAN COIL UNIT									
DESIGNATION		FCU-2.1		FCU-3.1		FCU-3.2			
AIR FLOW RATES									
TOTAL SUPPLY AIR		CFM		350		350		350	
COOLING COIL DATA									
TOTAL COOLING CAPACITY		MBTUH		7.2		7.2		7.2	
SENSIBLE COOLING CAPACITY		MBTUH		7.2		7.2		7.2	
AIR ENTERING COOLING COIL		*Fdb - *Fwb		74.0 – 61.9		74.0 – 61.9		74.0 – 61.9	
AIR LEAVING COOLING COIL		*Fdb - *Fwb		55.0 – 54.7		55.0 – 54.7		55.0 – 54.7	
CHW ENTERING & LEAVING TEMPERATURE		*F - *F		45.0 – 55.0		45.0 – 55.0		45.0 – 55.0	
WATER FLOW		GPM		1.5		1.5		1.5	
GLYCOL CONCENTRATION		%		0		0		0	
RUNOUT PIPE SIZE		IN.		3/4		3/4		3/4	
CONDENSATE DRAIN SIZE		IN.		3/4		3/4		3/4	
CONTROL VALVE (TYPE)				3-WAY		3-WAY		3-WAY	
HEATING COIL DATA - HYDRONIC									
HEATING CAPACITY		MBTUH						6.1	
AIR ENTERING HEATING COIL		*F						68	
AIR LEAVING HEATING COIL		*F						84	
HHW ENTERING & LEAVING TEMPERATURE		*F - *F						180.0 – 140.0	
WATER FLOW		GPM						0.4	
RUNOUT PIPE SIZE		IN.						3/4	
CONTROL VALVE (TYPE)								3-WAY	
SUPPLY FAN DATA									
FAN TYPE / # OF FANS				FC / 2		FC / 2		FC / 2	
DRIVE TYPE				DIRECT		DIRECT		DIRECT	
FAN MOTOR HORSEPOWER PER FAN		HP		1/4		1/4		1/4	
ELECTRICAL CHARACTERISTICS		V / PH		120 / 1		120 / 1		120 / 1	
UNIT DATA									
ORIENTATION				VERTICAL		VERTICAL		HORIZONTAL	
CABINET				EXPOSED		EXPOSED		CONCEALED	
SUPPLY CONFIGURATION				SLOPPED TOP		SLOPPED TOP		DUCTED	
RETURN CONFIGURATION				STAMPED GRILLE		STAMPED GRILLE		REAR RETURN	
PIPING CONNECTION SIDE (FACING AIRSTREAM)				RIGHT		RIGHT		RIGHT	
WEIGHT		LBS		165		165		155	
FILTER				1" MERV 13		1" MERV 13		1" MERV 13	
MANUFACTURER				TRANE		TRANE		TRANE	
MODEL NUMBER				FCUB060		FCUB060		FCDB060	
DETAIL REFERENCE				D & JMS.01		D & JMS.01		D, E, & JMS.01	
NOTES:									
1. INSTALL SUSPENDED UNITS ENTIRELY WITHIN AN AUXILIARY DRAIN PAN. PROVIDE CONDENSATE FLOAT SWITCH INTERLOCKED WITH SUPPLY FAN IN DRAIN PAN.									
2. UNITS FCU-3.2 ARE HORIZONTALLY MOUNTED SUSPENDED UNITS WITH REAR RETURN WITH DUCTED FRONT SUPPLY.									
3. UNITS FCU-2.1 & FCU-3.1 ARE FLOOR MOUNTED UNITS WITH VERTICAL DISCHARGE.									
4. PROVIDE ELASTOMERIC CLOSED CELL FOAM INSULATION									
5. PROVIDE STAINLESS STEEL DRAIN PAN									
6. PROVIDE TOGGLE DISCONNECT SWITCH									
7. PROVIDE CONDENSATE OVERFLOW SWITCH IN PRIMARY DRAIN PAN.									

PUMP SCHEDULE				
DESIGNATION		CHWP-1		HHWP-3 & 4
APPLICATION				
SERVICE		CHW		HHW
DISTRIBUTION TYPE		PRIMARY		SECONDARY
LOCATION TYPE		INTERIOR		INTERIOR
DESIGN CRITERIA				
TOTAL SYSTEM DESIGN FLOW	GPM	350		90
PUMP SEQUENCINGS		DUTY		DUTY / STANDBY
PUMP QUANTITY (INCLUDING REDUNDANCY)	#	1		2
PERFORMANCE				
PUMP TYPE		CLOSE COUPLED BASE MOUNTED END SUCTION		CLOSE COUPLED VERTICAL INLINE END SUCTION
PERCENT OF DESIGN FLOW	%	100		100
CAPACITY	GPM	350		90
FIXED HEAD	FT.	30		20
TOTAL DYNAMIC HEAD	FT.	30		80
EFFICIENCY	%	82		62
SHUT-OFF HEAD	FT.	38		87
IMPELLER DIAMETER	IN.	6.3		8.9
PUMP SEAL		MECHANICAL		MECHANICAL
MOTOR SPEED	RPM	1,760		1,760
MOTOR HORSEPOWER	HP - BHP	5 - 3.6		5 - 3.5
MOTOR ENCLOSURE		ODP		ODP
MOTOR WINDING		#N/A		#N/A
ELECTRICAL CHARACTERISTICS	V / PH	460 / 3		460 / 3
RLA	AMPS	7.6		7.6
MCA / MOCP	AMPS - AMPS	9.5 – 20		9.5 – 20
VARIABLE FREQUENCY DRIVE		NO		YES
NOTES		1		1
MANUFACTURER		TACO		TACO
MODEL NUMBER		C3007D		C1509D
DETAIL REFERENCE		FIM5.04		FIM5.04
NOTES:				
1. PROVIDE BRONZE WEAR RING.				

BUILDING AIR BALANCE												
				MAXIMUM OUTSIDE AIR RATES				MINIMUM OUTSIDE AIR RATES				
				KITCHEN HOOD ON		KITCHEN HOOD OFF		KITCHEN HOOD ON		KITCHEN HOOD OFF		
				FLOOR 1	BUILDING TOTAL	FLOOR 1	BUILDING TOTAL	FLOOR 1	BUILDING TOTAL	FLOOR 1	BUILDING TOTAL	
OUTSIDE AIR												
	BCU-1.1 (BASEMENT)	CFM	200			200		200			200	
	BCU-1.2 (1ST FLR CORRIDOR)	CFM			1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	AHU-1.1 (YOUTH)	CFM			600	600	600	600	600	600	600	
	AHU-1.2 (KITCHEN)	CFM			150	150	150	150	150	150	150	
	AHU-1.3 (RECEPTION)	CFM			1,200	1,200	1,200	1,000	1,000	300	300	
	FCU-1.1 (CHAPEL)	CFM			100	100	100	100	100	100	100	
	AHU-3.1 (COMMUNITY)	CFM			3,400	3,400	3,400	3,400	2,400	2,400	400	400
	AHU-3.2 (CLASSROOM / MEETING)	CFM		2,350		2,350		2,350		2,350		2,350
EXHAUST AIR												
	EF-3.1 (1ST FLOOR)	CFM			-920	-920	-920	-920	-920	-920	-920	-920
	EF-3.2 (2ND FLOOR)	CFM		-1,900	-80	-1,980	-80	-1,980	-80	-1,980	-80	-1,980
	EF-3.3 (KITCHEN HOOD)	CFM			-2,600	-2,600	0	-2,600	-2,600		0	0
	EF-3.4 (DISHWASHER HOOD)	CFM			-800	-800	-800	-800	-800	-800	-800	-800
	EF-3.5 (RELIEF AIR AHU-3.1)	CFM			-1,000	-1,000	-3,000	-3,000	0	0	0	0
TRANSFER AIR												
	TO 1ST FLR CORRIDOR	CFM			200	200	200	200	200	200	200	200
	FROM YOUTH	CFM			-400	-400	-400	-400	-400	-400	-400	-400
	TO KITCHEN	CFM			3,300	3,300	1,300	1,300	3,300	3,300	400	400
	FROM RECEPTION	CFM			-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-100	-100
	FROM COMMUNITY	CFM			-100	-100	-100	-100	-100	-100	-100	-100
	SF-1.1 (COMMUNITY TO KITCHEN)	CFM			-2,000	-2,000	0	-2,000	-2,000		0	0
	TOTAL TRANSFER	CFM	0	0	0	0	0	0	0	0	0	0
	NET PRESSURIZATION	CFM	200	450	1,050	1,700	1,650	2,300	850	1,500	750	1,400
	BUILDING AREA	SF	2,500	9,500	14,000	26,000	14,000	26,000	14,000	26,000	14,000	26,000
	NET PRESSURIZATION	CFM/SF	0.080	0.047	0.075	0.065	0.118	0.088	0.061	0.058	0.054	0.054

AIR COOLED CHILLER SCHEDULE			
DESIGNATION		CH-1	
CHILLER UNIT DATA			
NOMINAL CAPACITY	TONS	200	
REFRIGERATION CAPACITY TOTAL	TONS	194.4	
NO. OF COMPRESSORS & NO. OF CIRCUITS	# - #	2	-- 2
TYPE OF REFRIGERANT		R-513A	
REFRIGERANT CHARGE	LBS.	264	
MAXIMUM LENGTH x WIDTH x HEIGHT	IN.	318 x 87 x 94	
OPERATING WEIGHT	LBS.	11,500	
EVAPORATOR DATA			
WATER SUPPLY TEMPERATURE	*F	44	
WATER RETURN TEMPERATURE	*F	58	
FLOW RATE	GPM	340	
PASSES	#	2	
PRESSURE DROP	FT.	10	
WORKING PRESSURE	PSIG	150	
FOULING FACTOR	HR*SF*DEG/BTU	0.00010	
PERCENT ETHYLENE GLYCOL	%	0	
CONDENSER DATA			
AMBIENT AIR TEMPERATURE	*F	95	
NUMBER OF FANS	#	14	
FAN TYPE		VARIABLE SPEED	
CONDENSER COILS (TUBES / FINS)		AL MICROCHANNEL	
CONDENSER COATING		NONE	
PERFORMANCE DATA			
ENERGY EFFICIENCY RATIO (@ 100% LOAD)	BTU / (W*HR)	10.4	
NPLV	BTU / (W*HR)	17.1	
IFLV	BTU / (W*HR)	16.7	
ELECTRICAL DATA			
COMPRESSOR STARTER TYPE		VFD	
ELECTRICAL CHARACTERISTICS & NO. OF CIRCUITS	V / PH - #	460 / 3	-- 1
RLA	AMPS	342	
MCA	AMPS	383	
MOCP	AMPS	500	
TOTAL POWER	kW	224	
MANUFACTURER		TRANE	
MODEL		RTAF300ELV*1XU1A1N21W 2HXNCCVH1BPBGXXAX1	
DETAIL REFERENCE		C/M5.01	
NOTES:			
1. PROVIDE SEPARATE 115V/10 POWER CONNECTION FOR EVAPORATOR HEAT TAPE.			
2. PROVIDE CIRCUIT BREAKER WITH 65,000 AMP SCOR			
3. PROVIDE CONVENIENCE RECEPTACLE			
4. PROVIDE BACnet INTERFACE			
5. PROVIDE HARD-WIRED COMMUNICATION INTERFACE FOR LEAVING WATER, DEMAND LIMIT, % CAPACITY & PROGRAMMABLE RELAY			
6. PROVIDE DOUBLE DEFLECTION NEOPRENE ISOLATORS			
7. PROVIDE FLANGED PIPING CONNECTIONS			
8. PROVIDE FACTORY INSULATION ON EVAPORATOR FOR HIGH HUMIDITY OR PROVIDE FIELD INSULATION THICKNESS OF 1.5" OVER EVAPORATOR			

BLOWER COIL UNIT SCHEDULE				
DESIGNATION		BCU-1.1		BCU-1.2
AREA SERVED		BASEMENT		1ST FLOOR
AIR FLOW RATES				
TOTAL SUPPLY AIR		CFM	800	1,000
OUTSIDE AIR		CFM	200	1,000
COOLING COIL DATA - HYDRONIC				
TOTAL COOLING CAPACITY		MBTUH	16.3	12.9
SENSIBLE COOLING CAPACITY		MBTUH	16.3	12.9
AIR ENTERING COOLING COIL		*Fdb - *Fwb	73.7 – 61.7	66.9 – 58.2
AIR LEAVING COOLING COIL		*Fdb - *Fwb	55.0 – 54.7	55.0 – 54.7
CHW ENTERING & LEAVING TEMPERATURE		*F - *F	44.0 – 56.0	44.0 – 56.0
WATER FLOW		GPM	2.7	2.1
GLYCOL CONCENTRATION		%	0	0
RUNOUT PIPE SIZE		IN.	3/4	3/4
CONDENSATE DRAIN SIZE		IN.	3/4	3/4
CONTROL VALVE (TYPE)			2-WAY	2-WAY
HEATING COIL DATA - HYDRONIC				
HEATING CAPACITY		MBTUH	14.5	20.6
AIR ENTERING HEATING COIL		*F	67.3	65
AIR LEAVING HEATING COIL			84	84
HHW ENTERING & LEAVING TEMPERATURE		*F - *F	180.0 – 140.0	180.0 – 140.0
WATER FLOW		GPM	1.5	1
RUNOUT PIPE SIZE		IN.	3/4	3/4
CONTROL VALVE (TYPE)			2-WAY	2-WAY
SUPPLY FAN DATA				
FAN TYPE			FORWARD CURVED	FORWARD CURVED
DRIVE TYPE			DIRECT	DIRECT
EXTERNAL STATIC PRESSURE		IN. WG	0.8	0.7
MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTER)		IN. WG	2.9	1.8
DIRTY FILTER ALLOWANCE		IN. WG	0.5	0.3
FAN MOTOR HORSEPOWER		HP - BHP	1 – 0.7	1 – 0.6
ELECTRICAL CHARACTERISTICS		V / PH	480 / 3	480 / 3
MCA / MOCP		AMPS - AMPS	2.6 – 15	2.6 – 15
VARIABLE FREQUENCY DRIVE			NONE	NONE
UNIT DATA				
ORIENTATION			VERTICAL	VERTICAL
FILTER			2" MERV 13	2" MERV 13
MANUFACTURER			TRANE	TRANE
MODEL NUMBER			BCVE036GB**C3	BCVE036GB**C3
DETAIL REFERENCE			G & H.M5.01	G & H.M5.01
NOTES:				
1 BRAKE HORSEPOWER INDICATED IS MAXIMUM ALLOWED.				
2 INSTALL ALL UNITS LOCATED ABOVE GROUND LEVEL FINISHED FLOOR ENTIRELY WITHIN AN AUXILIARY DRAIN PAN. PROVIDE SWITCH INTERLOCKED WITH SUPPLY FAN IN DRAIN PAN.				
3 PROVIDE DOUBLE WALL CASING WITH 1-INCH INSULATION.				
4 PROVIDE STAINLESS STEEL DRAIN PAN.				
5 PROVIDE FACTORY MOUNTED CONDENSATE OVERFLOW SWITCH WIRED TO SHUT DOWN SUPPLY FAN.				



SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT

DESIGNATION (SAT-)		SAT-3.1	SAT-3.2	SAT-3.3	SAT-3.4	SAT-3.5	SAT-3.6	SAT-3.7	SAT-3.8
AIR VALVE									
NOMINAL DIAMETER	IN.	6	8	10	12	6	10	6	10
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.40	0.30	0.25	0.40	0.25	0.40
AIR FLOW RATES									
MAXIMUM COOLING	CFM	340	750	1,150	1,470	340	960	380	1,000
MINIMUM COOLING	CFM	110	230	350	450	110	290	120	300
MAXIMUM HEATING	CFM	225	435	360	730	110	400	230	360
MINIMUM HEATING	CFM	110	230	350	450	110	290	120	300
HEATING COIL DATA - HYDRONIC									
TOTAL HEATING CAPACITY	MBTUH	8.4	16.3	13.1	27.3	4.1	15.0	8.6	13.5
SPACE HEATING CAPACITY	MBTUH	3.4	6.6	5.3	11.1	1.7	6.1	3.5	5.5
AIR ENTERING HEATING COIL	"F	50	50	50	50	50	50	50	50
AIR LEAVING HEATING COIL	"F	84	84	84	84	84	84	84	84
HHW ENTERING & LEAVING TEMPERATURE	"F - "F	180 -- 140	180 -- 140	180 -- 140	180 -- 140	180 -- 140	180 -- 140	180 -- 140	180 -- 140
WATER FLOW	GPM	0.5	0.8	0.7	1.4	0.5	0.7	0.5	0.7
RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1
CONTROL VALVE (TYPE)		2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
SOUND CRITERIA - (NOTE 1)									
INTEGRAL SILENCER		NO	NO	NO	NO	NO	NO	NO	NO
MAX DISCHARGE SOUND RATING	NC	30	30	30	25	30	30	30	30
MAX RADIATED SOUND RATING	NC	25	25	30	30	25	30	25	30

- NOTES:
1 BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT
2 SUPPLY AIR TERMINALS SHALL BE PROVIDED WITH FACTORY MOUNTED 120V/24V CONTROL TRANSFORMER
3 SEE INSTALLATION DETAIL BIM5.01

VARIABLE FREQUENCY DRIVE SCHEDULE								
EQUIPMENT DESIGNATION	ELECTRICAL CHARACTERISTICS (V / PH)	TOTAL HORSEPOWER (HP)	PULSE WIDTH MODULATED INVERTER	ENCLOSURE NEMA RATING	HARMONIC MITIGATION	BYPASS DEVICE	MANUFACTURER	MODEL NUMBER
VFD-AHU11	460 / 3	2	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU12	460 / 3	2	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU13A	460 / 3	2	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU13A	460 / 3	2	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU31A	460 / 3	5	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU31B	460 / 3	5	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU32A	460 / 3	5	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-AHU32B	460 / 3	5	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-DOAS31A	460 / 3	7 1/2	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-DOAS31B	460 / 3	7 1/2	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-EF36	460 / 3	3/4	6-PULSE	TYPE 1	3% LINE REACTOR	STARTER	ABB	ACH580

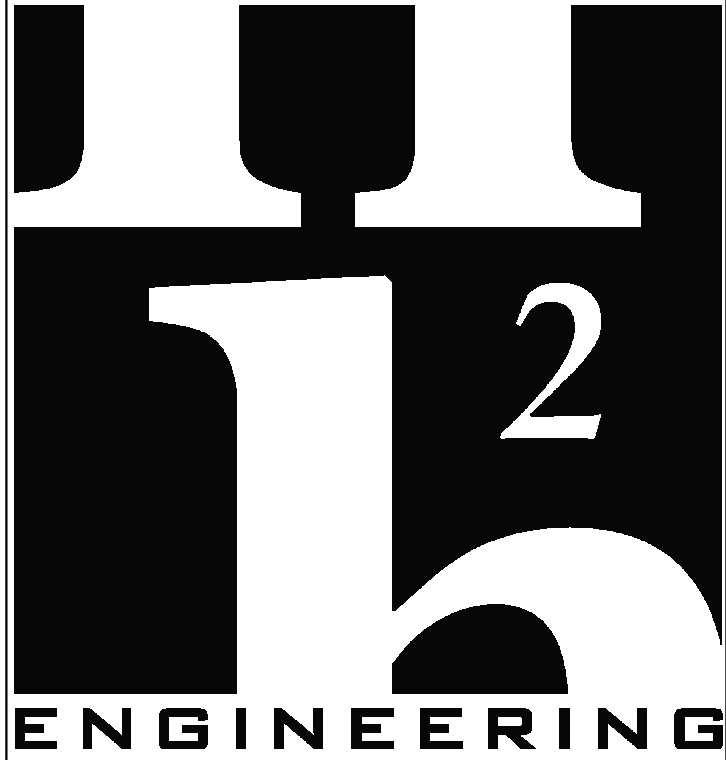
LOUVER SCHEDULE

DESIGNATION		LV-1
SERVICE		INTAKE
AIRFLOW	CFM	9,000
DIMENSIONS	IN X IN	48 x 72
FREE AREA	SQ FT	12.6
AIR VELOCITY	FPM	715
MAXIMUM AIR PRESSURE DROP	IN WG	0.2
MAXIMUM WATER PENETRATION	OZ / SF	< 0.01
AMCA 540 / 550 RATED		YES
FLANGED FRAME		YES
FLANGE WIDTH	IN	1.75
EXTENDED SILL WITH WATER DAM		YES
SCREEN		BIRD
FILTER RACK (REAR TUCK IN)		NO
BLANK OFF PANEL		NO
MOUNTING ANGLES		NO
SECURITY BARS		NO
COATING		AAMA 2605
MANUFACTURER		GREENHECK
MODEL NUMBER		EHV-550D
DETAIL REFERENCE		BIM5.04

AIR HANDLING UNIT SCHEDULE

DESIGNATION			AHU-1.1	AHU-1.2	AHU-1.3	AHU-3.1	AHU-3.2	DOAS-2.1	
GENERAL									
AREA SERVED			YOUTH	KITCHEN	RECEPTION	COMMUNITY	CLASSROOM		
CONTROL CONFIGURATION			SZ VAV	SZ VAV	SZ VAV	SZ VAV	MZVAV	CV	
UNIT CONFIGURATION			MB-PF-CC-AS- RH-AS-SF	MB-PF-CC-AS- RH-AS-SF	MB-PF-CC-AS- RH-AS-SF	MB-PF-CC-AS- RH-AS-SF	MB-PF-CC-AS-SF	MB-PF-PH-AS-HP-AS- CC-AS-HP-AS-SF	
ACCESS SECTION (AS) DOOR SIDE			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
MAX LENGTH x WIDTH x HEIGHT (NOT INCLUDING BASE RAIL)	IN.		153 x 48 x 36	153 x 48 x 36	153 x 72 x 46	153 x 84 x 52	127 x 76 x 50	243 x 70 x 62	
BASE RAIL HEIGHT	IN.		8	8	8	8	8	8	
AIR FLOW RATES									
TOTAL SUPPLY AIR	CFM		1,500	1,700	3,100	8,400	6,500	9,000	
OUTSIDE AIR	CFM		600	150	1,200	3,400	2,350	9,000	
RETURN AIR	CFM		900	1,550	1,900	5,000	4,150	0	
MINIMUM SUPPLY FAN SPEED SETTING	%		40	30	40	45	40	20	
MINIMUM OUTSIDE AIR FLOW SETTING	CFM		600	150	1000 – 300	2400 – 400	2,350	1,800	
MIXING BOX SECTION (MB)									
DUCT CONNECTION			TOP	TOP	TOP	TOP	TOP	SIDE	
DAMPERS			NONE	NONE	NONE	NONE	NONE	OA	
PRE-FILTER SECTION (PF)									
FILTER ORIENTATION			ANGLED	ANGLED	ANGLED	ANGLED	ANGLED	ANGLED	
TYPE OF FILTER			2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED	
FILTER EFFICIENCY			MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	
PREHEAT COIL DATA - HYDRONIC (PH)									
HEATING CAPACITY	MBTUH							206.0	
AIR ENTERING HEATING COIL	"F							26.9	
AIR LEAVING HEATING COIL	"F							48	
HHW ENTERING & LEAVING TEMPERATURE	"F - "F							180 – 140	
WATER FLOW	GPM							11	
RUNOUT PIPE SIZE	IN.							1 1/4	
CONNECTIONS SIDE (FACING INTO AIRSTREAM)								LEFT	
CONTROL VALVE (TYPE)								2-WAY	
COOLING COIL DATA - HYDRONIC (CC)									
TOTAL COOLING CAPACITY	MBTUH		32.5	45.2	88.3	235	145	705	
SENSIBLE COOLING CAPACITY	MBTUH		28.0	35.9	61.8	167	123	238	
AIR ENTERING COOLING COIL	"Fdb - "Fwb		71.2 – 61.3	75.0 – 62.5	75.0 – 62.5	75.0 – 62.5	75.0 – 62.5	76.4 – 75.9	
AIR LEAVING COOLING COIL	"Fdb - "Fwb		54.0 – 53.7	54.0 – 53.7	53.0 – 52.7	53.0 – 52.7	54.0 – 53.7	53.0 – 52.7	
CHW ENTERING & LEAVING TEMPERATURE	"F - "F		44 – 60	44 – 60	44 – 60	44 – 60	44 – 60	44 – 60	
WATER FLOW	GPM		4.1	5.7	12	30	19	89	
MINIMUM FACE AREA (@ 430 FPM)	SQ. FT.		3.5	4.0	7.2	19.5	15.1	20.9	
GLYCOL CONCENTRATION	%		0	0	0	0	0	0	
RUNOUT PIPE SIZE	IN.		3/4	3/4	1 1/4	2	1 1/2	3	
CONDENSATE DRAIN SIZE	IN.		3/4	3/4	1	1	1	1	
CONNECTIONS SIDE (FACING INTO AIRSTREAM)			LEFT	RIGHT	LEFT	RIGHT	LEFT	LEFT	
CONTROL VALVE (TYPE)			2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	
REHEAT COIL DATA - HYDRONIC (RH)									
HEATING AIRFLOW (% OF TOTAL SUPPLY AIR)	%		40	30	40	45			100
HEATING AIRFLOW	CFM		600	510	1,240	3,780			9,000
HEATING CAPACITY	MBTUH		12.4	8.6	25.3	75.9			117.0
AIR ENTERING HEATING COIL	"F		65.0	68.5	65.2	65.5			53.0
AIR LEAVING HEATING COIL	"F		84.0	84.0	84.0	84.0			65.0
HHW ENTERING & LEAVING TEMPERATURE	"F - "F		180 – 140	180 – 140	180 – 140	180 – 140			180 – 140
WATER FLOW	GPM		0.7	0.5	1.3	3.8	5.9		
RUNOUT PIPE SIZE	IN.		3/4	3/4	3/4	3/4	3/4	3/4	
CONNECTIONS SIDE (FACING INTO AIRSTREAM)			LEFT	RIGHT	LEFT	RIGHT	LEFT	LEFT	
CONTROL VALVE (TYPE)			2-WAY	2-WAY	2-WAY	3-WAY		3-WAY	
SUPPLY FAN SECTION (SF)									
DUCT CONNECTION			TOP	TOP	TOP	TOP	TOP	TOP	
FAN TYPE			PLENUM	PLENUM	FAN ARRAY	FAN ARRAY	FAN ARRAY	FAN ARRAY	
DRIVE TYPE			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	
ELECTRONICALLY COMMUTATED MOTOR (ECM)			NO	NO	NO	NO	NO	NO	
FAN QUANTITY (INCLUDING REDUNDANCY)	#		1	1	2	2	2	2	
REDUNDANCY			NONE	NONE	NONE	NONE	NONE	NONE	
EXTERNAL STATIC PRESSURE	IN. WG		1.5	1.5	1.3	1.3	2.0	1.5	
MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTERS)	IN. WG		3.8	3.8	3.6	3.6	4.0	5.0	
DIRTY FINAL FILTER ALLOWANCE	IN. WG		0.7	0.7	0.7	0.7	0.7	0.7	
FAN MOTOR HORSEPOWER (PER FAN)	HP - BHP		2.0 – 1.5	2.0 – 1.7	2.0 – 1.5	5.0 – 3.9	5.0 – 3.4	7.5 – 5.9	
FAN MOTOR HORSEPOWER (UNIT TOTAL @ DESIGN)	HP - BHP		2.0 – 1.5	2.0 – 1.7	4.0 – 2.9	10.0 – 7.8	10.0 – 6.8	15.0 – 11.8	
ELECTRICAL CHARACTERISTICS & NO. OF CIRCUITS	V / PH - #		480 / 3 – 1	480 / 3 – 1	480 / 3 – 1	480 / 3 – 2	480 / 3 – 2	480 / 3 – 2	
RLA (PER CIRCUIT)	AMPS		3.4	3.4	6.8	7.6	7.6	11	
MCA / MOCP (PER CIRCUIT)	AMPS - AMPS		4.3 – 15	4.3 – 15	7.7 – 15	9.5 – 20	9.5 – 20	13.8 – 30	
VARIABLE FREQUENCY DRIVE (PROVIDED BY DIV 26)			1 PER UNIT	1 PER UNIT	1 PER FAN	1 PER FAN	1 PER FAN	1 PER FAN	
FAN INTERNAL MOUNTING	REF SPEC 230548		SPNMI	SPNMI	SPNMI	DDNM	DDNM	DDNM	
INLET / DISCHARGE SOUND DATA									
63 HZ	dB		70 / 73	70 / 74	65 / 69	73 / 76	72 / 75	73 / 77	
125 HZ	dB		65 / 70	65 / 70	65 / 75	75 / 77	74 / 76	75 / 78	
250 HZ	dB		63 / 69	59 / 66	62 / 70	89 / 87	87 / 85	89 / 87	
500 HZ	dB		60 / 75	55 / 73	68 / 73	69 / 80	69 / 79	69 / 82	
1000 HZ	dB		57 / 65	52 / 62	56 / 65	67 / 78	67 / 77	68 / 79	
2000 HZ	dB		58 / 66	53 / 62	58 / 65	72 / 79	71 / 78	72 / 80	
4000 HZ	dB		55 / 63	51 / 60	55 / 66	64 / 72	64 / 72	65 / 74	
8000 HZ	dB		52 / 59	49 / 57	50 / 60	56 / 64	56 / 64	56 / 66	
RADIATED SOUND DATA									
63 HZ	dB		68	69	76	76	76	78	
125 HZ	dB		68	69	67	77	75	78	
250 HZ	dB		64	64	69	80	78	81	
500 HZ	dB		69	70	70	73	72	75	
1000 HZ	dB		64	65	64	72	71	74	
2000 HZ	dB		45	47	51	55	54	56	
4000 HZ	dB		38	39	46	44	45	46	
8000 HZ	dB		31	32	39	33	33	34	
SPECIAL FEATURES									
UNIT EXTERNAL MOUNTING	REF SPEC 230548		WP	WP	WP	CB-SPNMI	CB-SPNMI	CB-SPNMI	
DETAIL REFERENCE			A, G, & HIMS.01	A, G, & HIMS.01	A, G, & HIMS.01	A, G, & HIMS.01 FIMS.02	A, G, & HIMS.01 FIMS.02	A, G, & HIMS.01 FIMS.02	

- NOTES:
1 BRAKE HORSEPOWER INDICATED IS MAXIMUM ALLOWED
2 PROVIDE FLOAT SWITCH INTERLOCKED WITH SUPPLY FAN IN PRIMARY DRAIN PAN
3 MAXIMUM ALLOWABLE DIMENSIONS FOR EQUIPMENT SHOWN IN AIR HANDLING UNIT LAYOUTS THIS PAGE. SUBMITTAL DATA SHALL INCLUDE INFORMATION DEMONSTRATING COMPLIANCE WITH MAXIMUM ALLOWABLE WIDTH INCLUDING COIL PULL.



114 EAST 5th AVENUE
TALLAHASSEE, FL 32303
PHONE 850.224.7922
www.H2Engineering.com

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Consultants:

Mechanical, Plumbing and Electrical
H2Engineering Inc
114 E 5th Ave
Tallahassee, FL 323203
(850) 224-7922

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Good Shepherd
Catholic Church
Community
Center

4665 Thomasville Rd,
Tallahassee, Fl 32309
GRC Project Number 21275



413 ALL SAINTS STREET TALLAHASSEE, FLORIDA 32301
(850) 222-8100
www.architects-gca.com

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Schedules

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SIGNATURE

DUCT SILENCER SCHEDULE

DESIGNATION			DS-11 S1	DS-11 R1	DS-13 S1	DS-13 R1	DS-31 S1	DS-31 R1	DS-32 S1	DS-32 S2	DS-32 S3	DS-32 S4	DS-32 R1	DS-32 R2	DS-32 R3	DS-32 R4	DS-33 S1	DS-35 R1	DS-35 R2	DS-35 R3	DS-32 E1
	SHAPE		RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR
	CONFIGURATION		STRAIGHT	STRAIGHT	ELBOW	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT
	FLOW DIRECTION (NOTE 1)		FORWARD	REVERSE	FORWARD	REVERSE	FORWARD	REVERSE	FORWARD	REVERSE	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD	FORWARD
	FACE DIMENSION (WIDTH x HEIGHT / or DIAMETER)	IN x IN	30 x 18	24 x 20	40 x 20	38 x 20	50 x 30	46 x 32	36 x 24	8 x 8	6 x 6	6 x 6	24 x 20	32 x 20	14 x 14	14 x 12	24 x 20	28 x 26	28 x 26	24 x 20	24 x 20
	LENGTH	IN	36	36	36	36	36	36	36	48	48	48	72	36	36	36	48	48	48	48	48
	INLET LEG (NOTE 4)	IN																			
	OUTLET LEG (NOTE 4)	IN																			
	MAXIMUM AIRFLOW	CFM	1,500	1,500	3,100	1,900	8,400	5,000	6,390	180	60	60	5,050	4,630	930	700	5,750	3,000	3,000	3,000	80
	MAXIMUM PRESSURE DROP (INCLUDING SYSTEM EFFECTS)	INCH W.G.	0.04	0.16	0.20	0.16	0.06	0.01	0.04	0.05	0.25	0.25	0.21	0.21	0.03	0.03	0.21	0.01	0.01	0.00	0.25
OCTAVE BAND DYNAMIC INSERTION LOSS / GENERATED NOISE (NOTE 2)																					
	63 Hz	dB / dB	6 / 27	6 / 37	6 / 48	8 / 44	3 / 43	5 / 25	5 / 25	6 /	6 /	6 /	7 / 48	5 /	5 /	5 /	9 / 51	7 /	7 /	7 /	6 /
	125 Hz	dB / dB	7 / 20	11 / 29	11 / 29	14 / 21	5 / 27	6 / 20	7 / 20	10 /	10 /	10 /	13 / 25	10 /	10 /	10 /	15 / 42	14 /	14 /	13 /	10 /
	250 Hz	dB / dB	9 / 15	20 / 32	21 / 33	20 / 25	9 / 17	9 / 15	10 / 15	19 /	19 /	19 /	22 / 29	18 /	18 /	18 /	23 / 45	24 /	24 /	23 /	19 /
	500 Hz	dB / dB	11 / 17	36 / 36	32 / 39	28 / 38	17 / 31	14 / 21	14 / 15	31 /	37 /	37 /	30 / 40	33 /	33 /	33 /	32 / 48	44 /	44 /	34 /	37 /
	1000 Hz	dB / dB	9 / 22	40 / 35	33 / 39	23 / 42	13 / 34	10 / 29	11 / 10	33 /	42 /	42 /	25 / 44	36 /	36 /	36 /	24 / 47	46 /	46 /	34 /	42 /
	2000 Hz	dB / dB	8 / 14	34 / 35	26 / 37	15 / 42	11 / 29	7 / 18	8 / 10	28 /	38 /	38 /	17 / 45	32 /	32 /	32 /	19 / 49	42 /	42 /	27 /	38 /
	4000 Hz	dB / dB	7 / 10	25 / 27	21 / 31	13 / 42	8 / 21	6 / 10	8 / 10	21 /	27 /	27 /	11 / 46	24 /	24 /	24 /	14 / 44	31 /	31 /	21 /	27 /
	8000 Hz	dB / dB	5 / 10	18 / 20	15 / 23	10 / 33	7 / 17	4 / 10	7 / 10	15 /	19 /	19 /	9 / 38	17 /	17 /	17 /	10 / 37	21 /	21 /	15 /	19 /
MANUFACTURER			PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	
MODEL NUMBER			RM36/ZC	RM36/1E	RL36/4F	RM36/WG	RM36/7B	RM36/VB	RL36/WB	RL36/2E	RL48/1D	RL48/1D	RM72/9C	RM36/2G	RM36/2G	RM36/2G	RL36/WG	RL36/1G	RL36/1G	RL36/5G	RL48/1D

- NOTES:
- 1 FORWARD FLOW INDICATES WHERE NOISE AND AIRFLOW MOVE IN SAME DIRECTIONS. REVERSE FLOW INDICATES WHERE NOISE AND AIRFLOW MOVE IN OPPOSITE DIRECTIONS.
 - 2 DYNAMIC INSERTION LOSS DETERMINED IN ACCORDANCE WITH ASTM E477-99.
 - 3 DYNAMIC INSERTION LOSS DATA SHOWN FOR EACH SILENCER IS BASED ON ACOUSTICAL DATA FROM BASIS OF DESIGN AIR HANDLING UNITS. IF ACOUSTICAL DATA FOR APPROVED ALTERNATE IS DIFFERENT FROM BASIS OF DESIGN, CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING DUCT SILENCERS THAT DO NOT EXCEED GENERATED NOISE REQUIREMENTS FOR EACH OCTAVE BAND, AS INDICATED IN THE SCHEDULE ABOVE. PROVIDE ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVEL, INCLUDING AIRBORNE AND BREAKOUT NOISE, IN THE OCCUPIED SPACES, MEET NC 30.
 - 4 INDICATED LENGTH APPLIES TO ELBOW SILENCER.



RANGE HOOD SCHEDULE

DESIGNATION		RH-1
	OVERALL HOOD DIMENSIONS	IN x IN 168x74
	DIMENSIONS (EXHAUST HOOD ONLY)	IN L X IN W X IN H 156x60x24
	EXHAUST AIR FLOW RATE	CFM 2,600
	EXHAUST DUCT CONNECTION	IN 160
	DIMENSIONS (MAKEUP AIR PLENUM)	IN L X IN W X IN H 168x146
	MAKEUP AIR FLOW RATE	CFM 2,100
	DUCT CONNECTION (MAKEUP AIR)	IN QTY 3 - 12X28
	GREASE FILTER QUANTITY	QTY 9
	GREASE FILTER DIMENSIONS	IN x IN 20x16
	GREASE FILTER EFFICIENCY	% 85
	FINISH	STAINLESS STEEL
MANUFACTURER		CAPTIVEAIRE
DETAIL REFERENCE		AMS.05
NOTES:		
1	PROVIDE HOOD WITH 1'-0" WIDE UTILITY CABINET AND INTERNAL FIRE SUPPRESSION SYSTEM	
2	PROVIDE LIGHT.	
3	PROVIDE HOOD WITH ALL ACCESSORIES AND INSTALLATION KITS NECESSARY TO HAVE A FULLY FUNCTIONING EXHAUST HOOD. SEE DETAIL AMS.05 FOR DIMENSIONS AND ACCESSORIES	
4		

FAN SCHEDULE

DESIGNATION			EF-3.1		EF-3.2		EF-3.3		EF-3.4		EF-3.5		SF-2.1	
	SERVICE		CLASS 1 OR 2 EXHAUST		CLASS 1 OR 2 EXHAUST		GREASE EXHAUST		DISHWASHER EXHAUST		CLASS 1 OR 2 EXHAUST		CLASS 1 OR 2 MAKEUP	
	MOUNTING METHOD		ROOF		ROOF		ROOF		ROOF		ROOF		SUSPENDED	
	FAN TYPE		CENTRIFUGAL UPBLAST		CENTRIFUGAL UPBLAST		CENTRIFUGAL UPBLAST		CENTRIFUGAL UPBLAST		CENTRIFUGAL UPBLAST		CENTRIFUGAL SQUARE IN-LINE	
	AIR FLOW	CFM	920		1,980		2,600		800		3,000		2,000	
	STATIC PRESSURE	IN.	0.5		0.4		1.8		0.8		0.3		0.4	
	AIRSTREAM TEMPERATURE	DEG F	75		75		150		100		75		75	
	FAN SPEED	RPM	929		730		1,501		1,533		674		897	
	FAN DRIVE		DIRECT		DIRECT		DIRECT		DIRECT		DIRECT		DIRECT	
	MOTOR SPEED	RPM	1,800		1,800		1,800		1,800		900		1,800	
	MOTOR POWER	HP or W	1/4	HP	3/4	HP	2	HP	1/4	HP	1	HP	3/4	HP
	MOTOR BRAKE HORSEPOWER	BHP	0.14		0.24		1.26		0.19		0.36		N/A	
	ELECTRONICALLY COMMUTATED MOTOR		NO		NO		NO		NO		NO		NO	
	ELECTRICAL CHARACTERISTICS	V / PH	120 / 1		120 / 1		208 / 3		120 / 1		208 / 3		120 / 1	
WEIGHT	LBS.	85		125		150		65		150		115		
NOISE LEVEL (RADIATED)	SONES or LwA	7.0	SONES	7.1	SONES	19.0	SONES	8.9	SONES	8.1	SONES	7.4	SONES	
STANDARD NOTES		1, 2, 3, 4, 6, 7, 9		1, 2, 3, 4, 6, 7, 9		1, 6, 7, 9, 23, 24		1, 2, 3, 4, 6, 7, 9		1, 3, 4, 6, 7, 9		1, 2, 4, 10, 15, 16, 17		
SPECIAL NOTES														
MANUFACTURER			GREENHECK		GREENHECK		GREENHECK		GREENHECK		GREENHECK		GREENHECK	
MODEL NUMBER			CUE-140-VG		CUE-180-VG		CUE-180HP-VG		CUE-100-VG		CUE-200-VG		SQ-160-VG	
DETAIL REFERENCE			DIMS.02		DIMS.02		GMS.02		DIMS.02		DIMS.02		EMS.02	

- NOTES:
- 1 PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED FOR SINGLE PHASE MOTORS (3/4 HP AND SMALLER). ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR 1 HP MOTOR AND LARGER.
 - 2 PROVIDE SOLID STATE SPEED CONTROLLER, FACTORY MOUNTED.
 - 3 PROVIDE BIRD SCREEN.
 - 4 PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.
 - 6 PROVIDE EXTENDED LUBRICATION LINES.
 - 7 PROVIDE PRE-FABRICATED INSULATED ROOF CURB, 24-INCH HIGH WITH DAMPER TRAY. SLOPED TO MATCH ROOF SLOPE.
 - 10 PROVIDE SPRING ISOLATORS.
 - 16 PROVIDE INLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).
 - 17 PROVIDE OUTLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).
 - 23 PROVIDE VENTED EXTENSION WITH HINGED BASE.
 - 24 PROVIDE GREASE TRAP WITH DRAIN CONNECTION.

WRAP-AROUND HEAT PIPE SCHEDULE

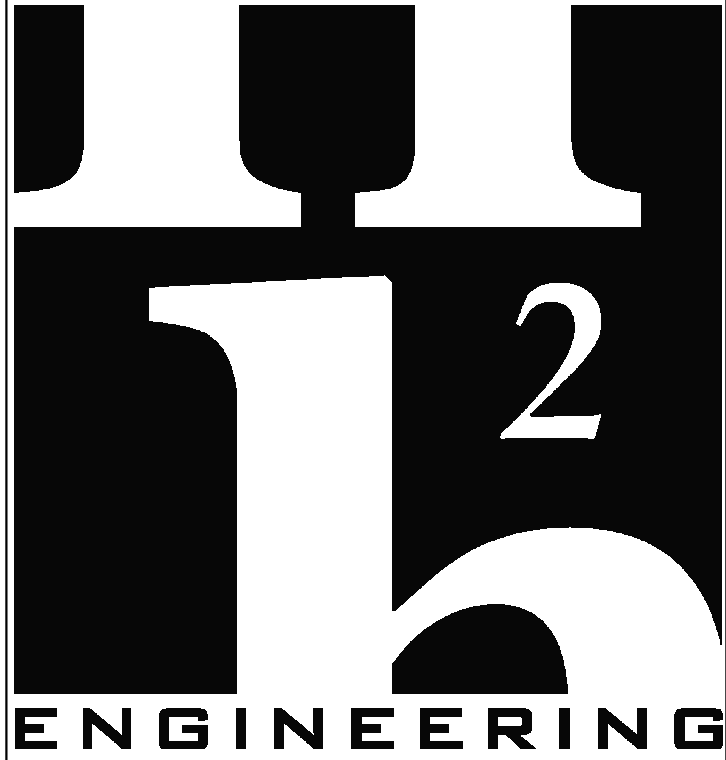
DESIGNATION		WH-PP-2.1
ASSOCIATED SYSTEM		DOAS-2.1
PERFORMANCE		
AIR FLOW RATE		CFM 9,000
SENSIBLE CAPACITY		MBTUH 136
HEAT PIPE EFFECTIVENESS		% 40
PRE-COOL COIL DATA		
AIR ENTERING COIL		*Fdb - *Fwb 87.8 -- 79.3
AIR LEAVING COIL		*Fdb - *Fwb 76.4 -- 75.9
MAXIMUM AIR PRESSURE LOSS		IN. WG 0.7
REHEAT COIL DATA		
AIR ENTERING COIL		*Fdb - *Fwb 53.0 -- 52.7
AIR LEAVING COIL		*Fdb - *Fwb 66.9 -- 58.2
MAXIMUM AIR PRESSURE LOSS		IN. WG 0.7
SPECIAL FEATURES		
SOLENOID VALVE		NO
REFRIGERANT		R-410A
MANUFACTURER		HEAT PIPE TECH

AIR CURTAIN SCHEDULE

DESIGNATION		AC-1
LOCATION		KITCHEN
AIR QUANTITY		CFM 900
FAN QUANTITY & MOTOR SIZE		# - HP 1 - 1/6
ELECTRICAL CHARACTERISTICS		V / PH 120 / 1
FULL LOAD AMPS		AMPS 2.4
MANUFACTURER		MARS
MODEL NUMBER		LPN236-1UA-08
NOTES:		
1	MATCH COLOR OF INTERIOR MOUNTING SURFACE.	
2	PROVIDE MOTOR PANEL AND DOOR LIMIT SWITCH. AIR CURTAIN SHALL ACTIVATE AS DOOR BEGINS TO OPEN.	

DESIGN CONDITIONS

OUTDOOR CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)			
	COOLING (1% ANNUAL)	*Fdb - *Fwb	94.3 - 75.9
	HEATING (99.6% ANNUAL)	*Fdb	26.5
	ENTHALPY (1% ANNUAL)	*Fdb - *Fwb	87.8 - 79.3
	DEHUMIDIFICATION (1% ANNUAL)	*Fdb - *Fwb	82.3 - 78.6
INDOOR CONDITIONS - SUMMER			
	GENERAL	*Fdb - %RH	74 - 56
	COMMUNITY ROOM & RECEPTION HALL	*Fdb - %RH	74 - 63
	TELECOMMUNICATION ROOMS	*Fdb - %RH	74 - 50
	STAIR TOWERS	*Fdb - %RH	76 - 55
	MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	*Fdb - %RH	76 - 50
INDOOR CONDITIONS - WINTER			
	GENERAL	*Fdb - %RH	70 - 30
	COMMUNITY ROOM & RECEPTION HALL	*Fdb - %RH	70 - 30
	TELECOMMUNICATION ROOMS	*Fdb - %RH	70 - 30
	STAIR TOWERS	*Fdb - %RH	68 - 30
	MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	*Fdb - %RH	68 - 30



114 EAST 5th AVENUE
TALLAHASSEE, FL 32303
PHONE 850.224.7922
www.H2Engineering.com

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Consultants:

Mechanical, Plumbing and Electrical
H2Engineering Inc
114 E 5th Ave
Tallahassee, FL 323203
(850) 224-7922

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CONTRACT DOCUMENTS			
PERMIT DOCUMENTS			
1	REVISION 1 - ADDENDA 1		07-09-26

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4665 Thomasville Rd,
Tallahassee, Fl 32309
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architects

413 ALL SAINTS STREET TALLAHASSEE, FLORIDA 32301
(850) 222-8100
www.architects-gca.com

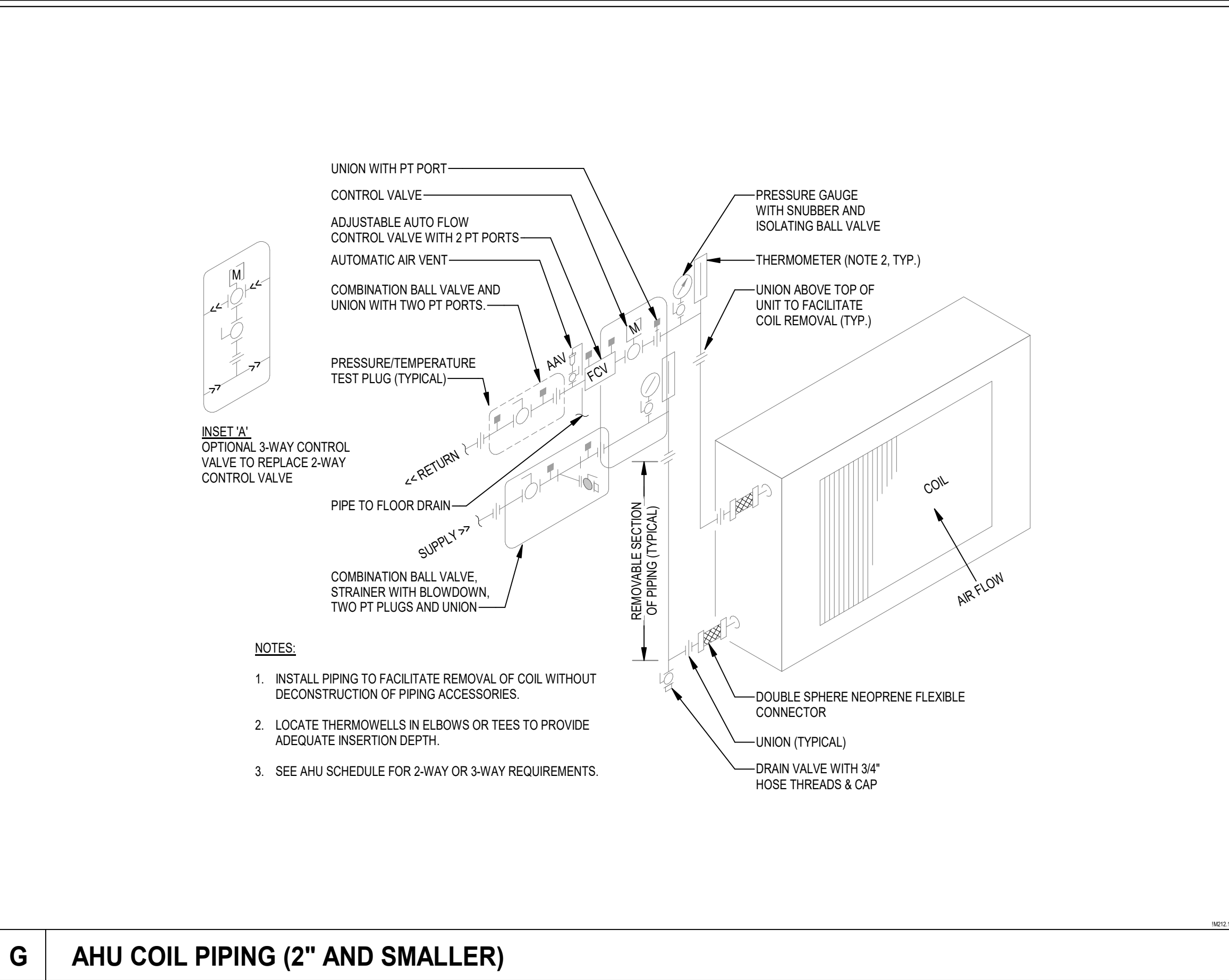
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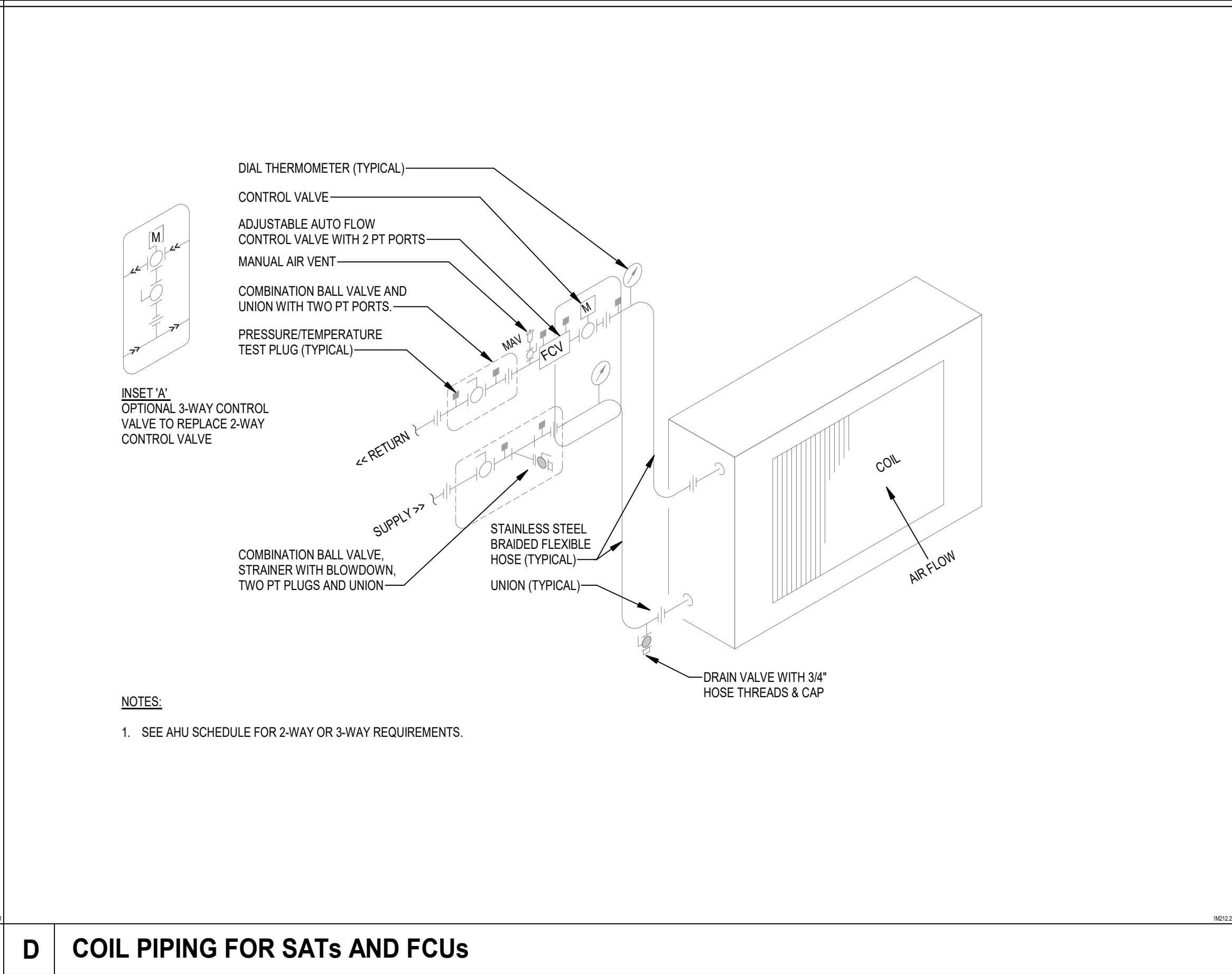
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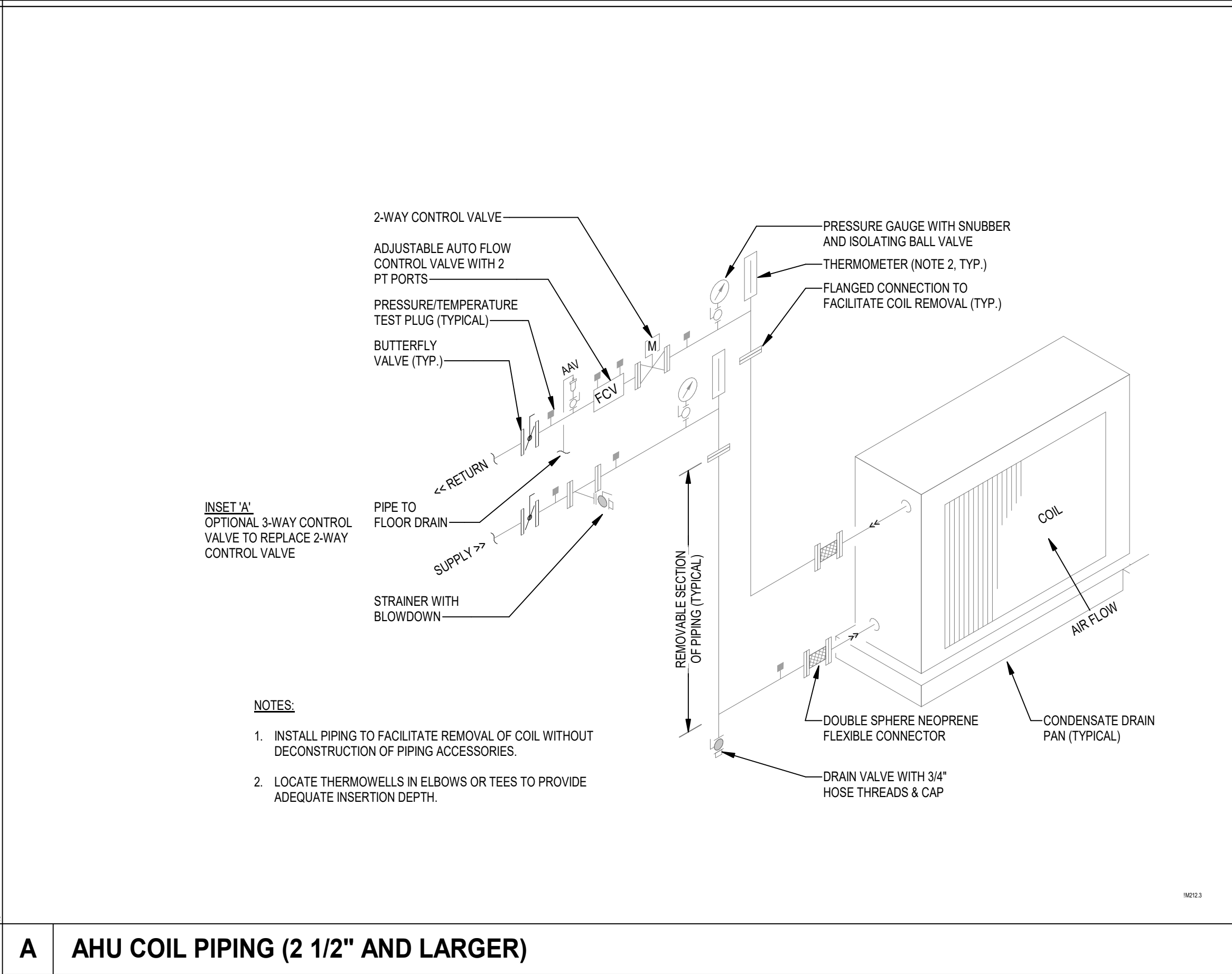
6/9/2026 1:35:02 PM Autodesk Docs\01-167 Good Shepherd Church\21-167 Good Shepherd Church - Multi-Purpose BLDG MEP R25.rvt



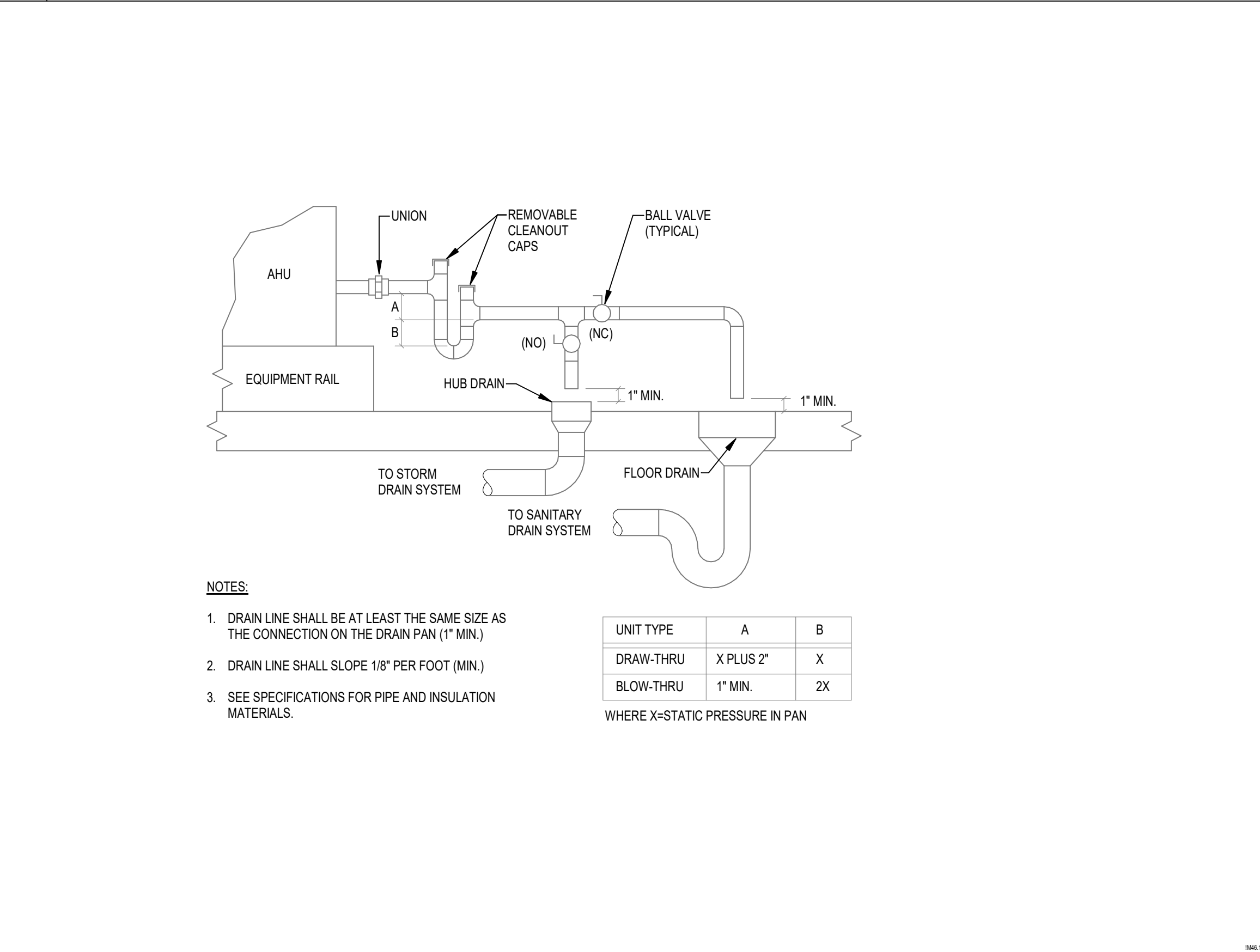
G AHU COIL PIPING (2" AND SMALLER)



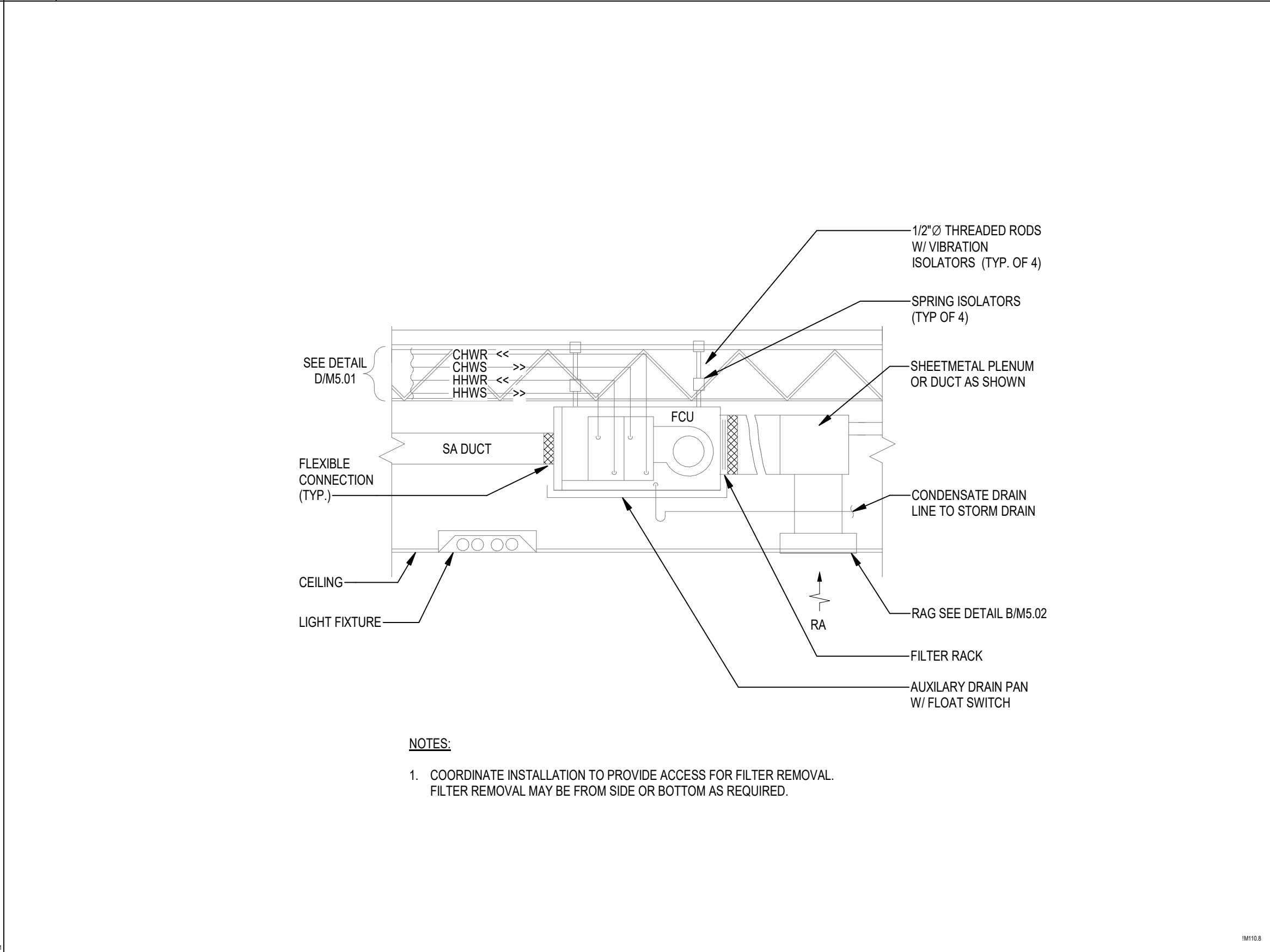
D COIL PIPING FOR SATs AND FCUs



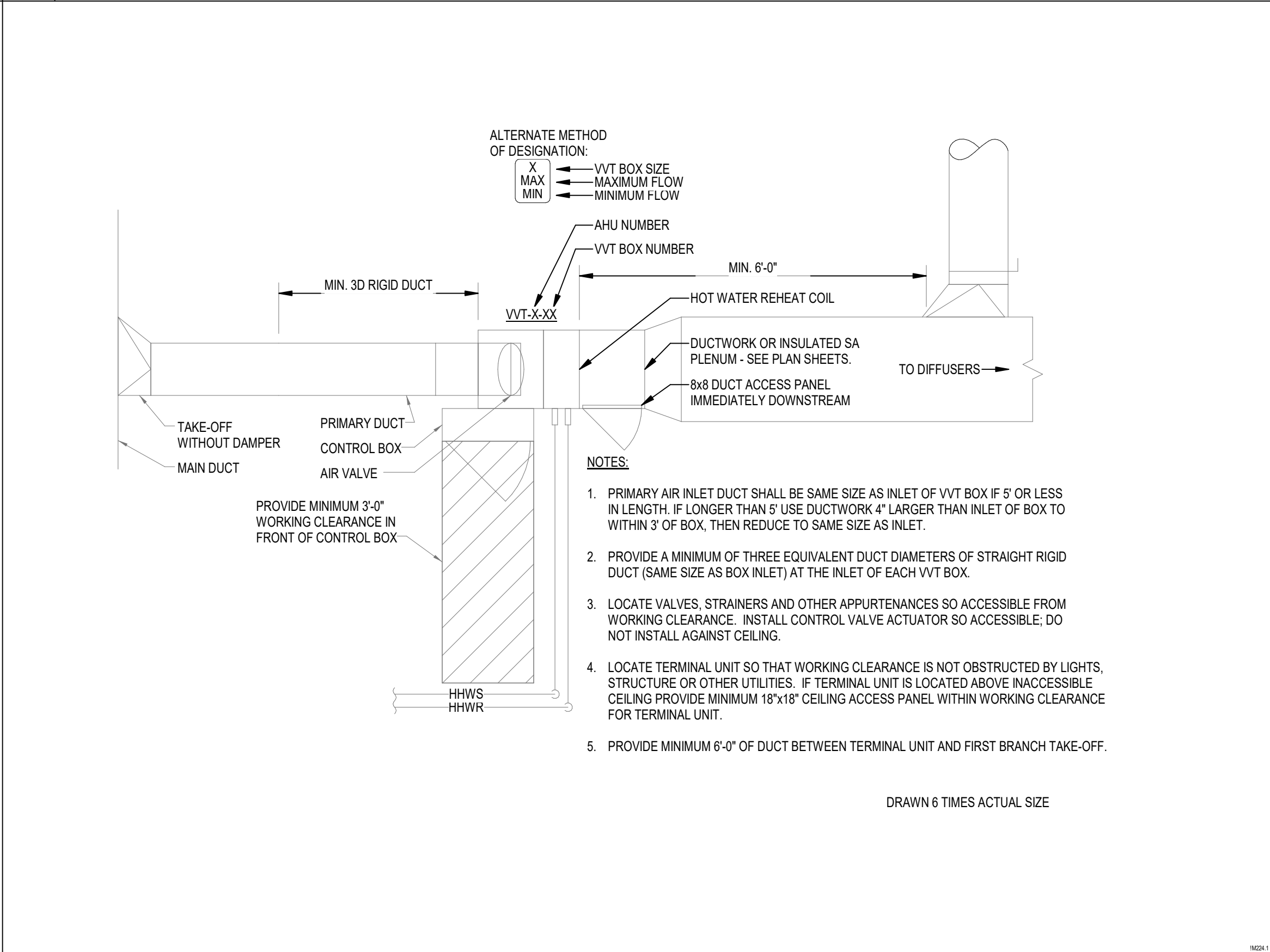
A AHU COIL PIPING (2 1/2" AND LARGER)



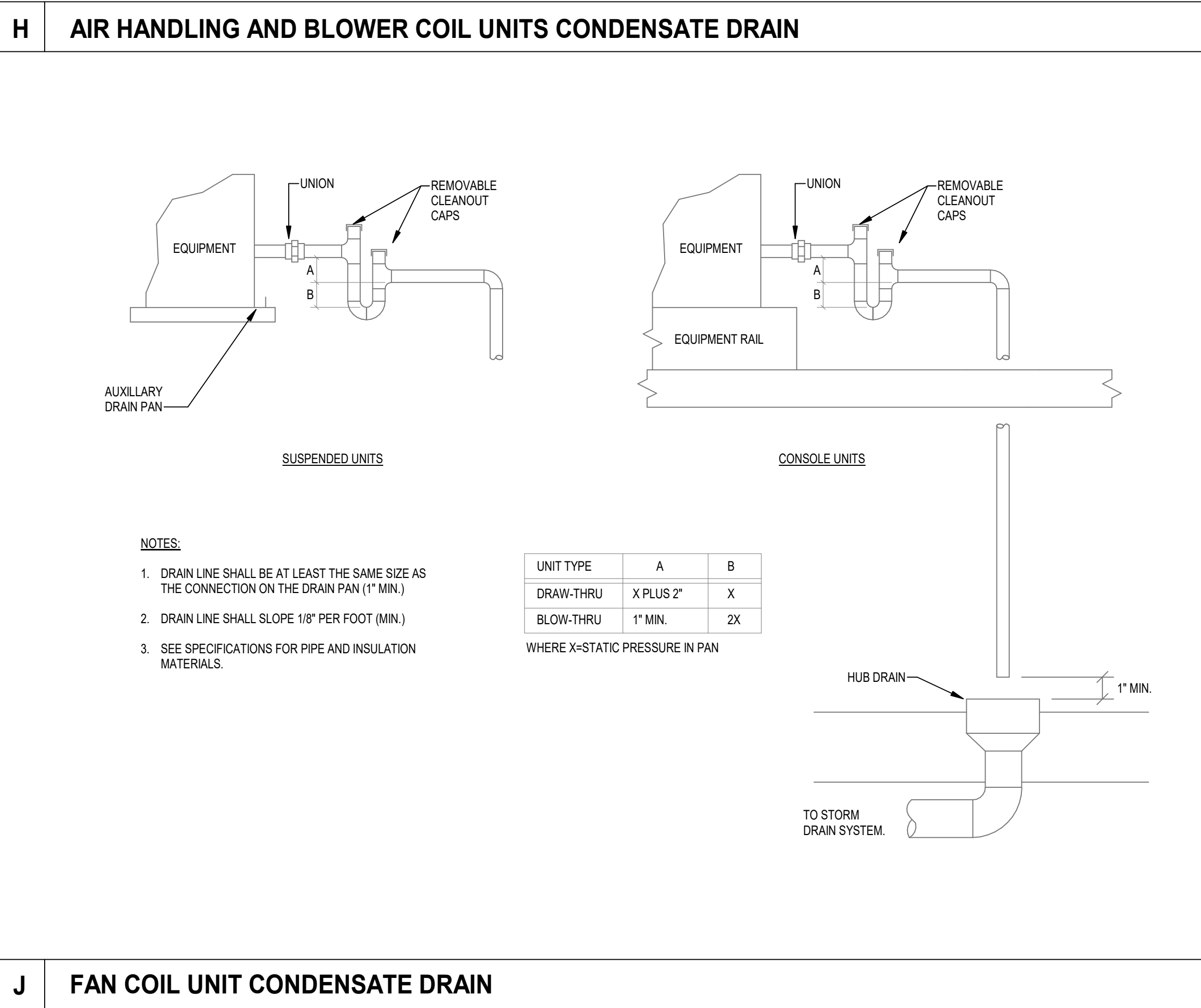
H AIR HANDLING AND BLOWER COIL UNITS CONDENSATE DRAIN



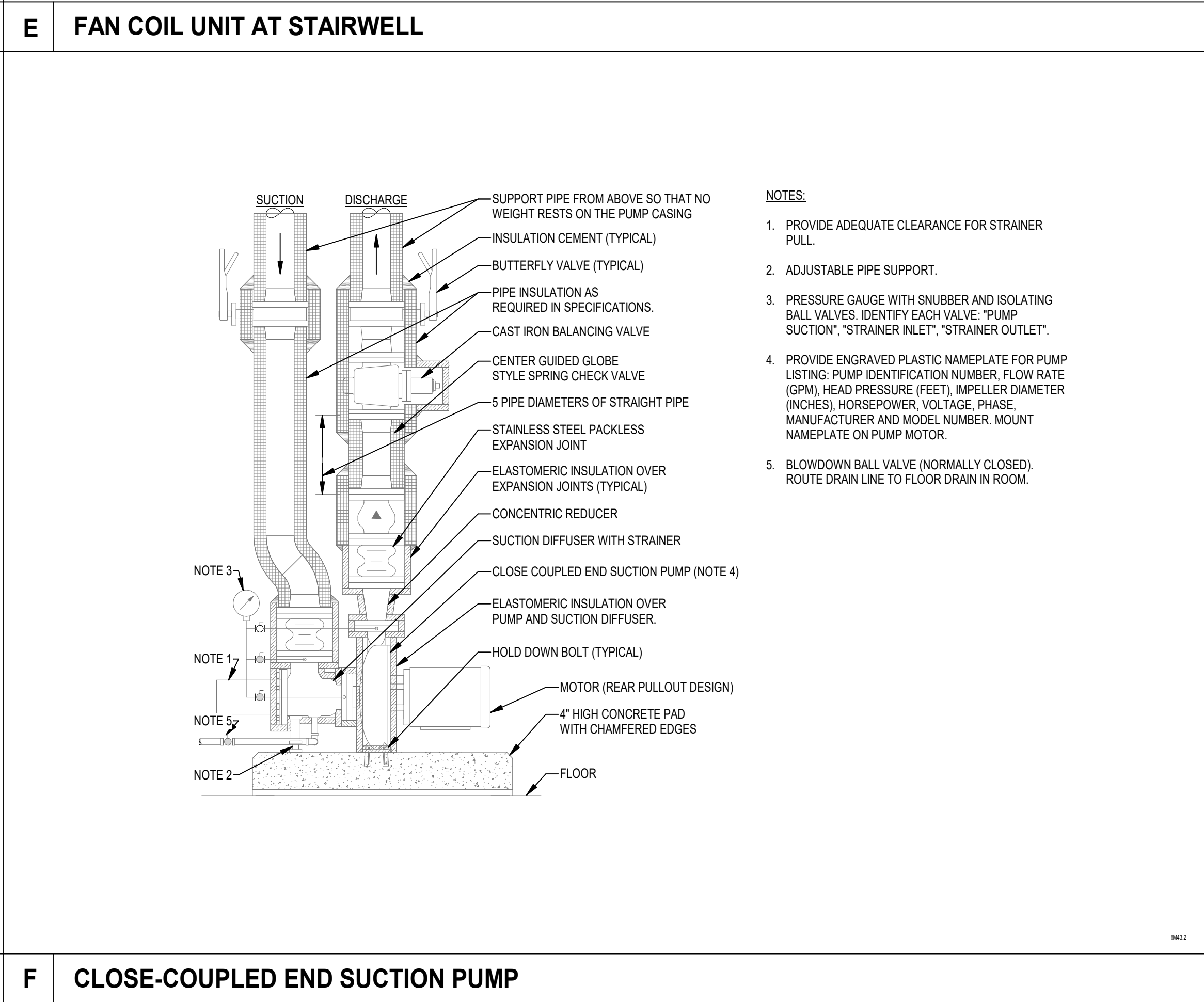
E FAN COIL UNIT AT STAIRWELL



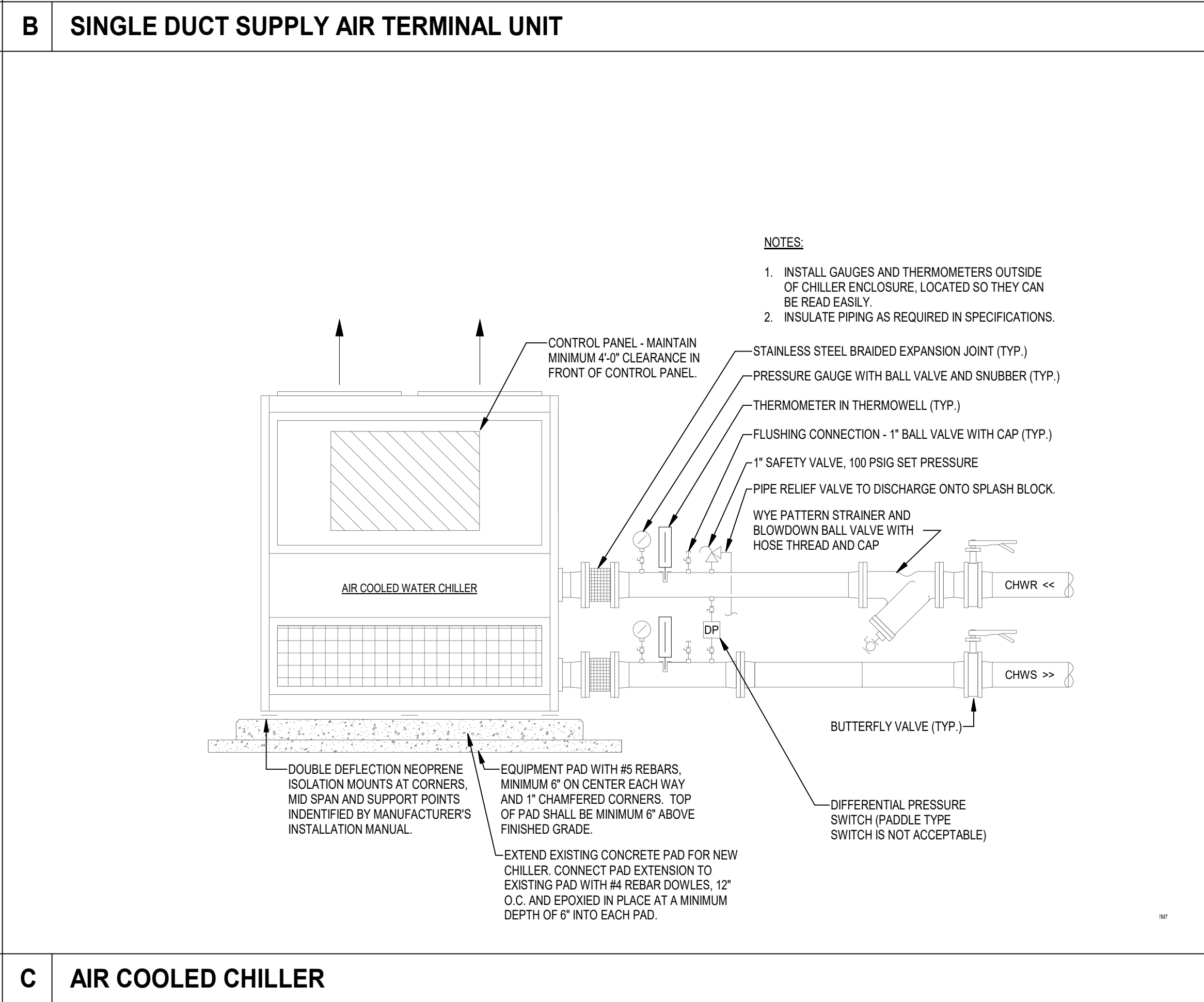
B SINGLE DUCT SUPPLY AIR TERMINAL UNIT



J FAN COIL UNIT CONDENSATE DRAIN



F CLOSE-COUPLED END SUCTION PUMP



C AIR COOLED CHILLER

H2

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114 EAST 5th AVENUE
TALLAHASSEE, FL 32303
PHONE 850.224.7922
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H2E PROJECT No. 21-067

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Matthew T. Scarings, P.E. #54639

Matthew T. Scarings
State of Florida
Professional Engineer
P.E. #54639

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Mechanical, Plumbing and Electrical
H2Engineering Inc
114 E 5th Ave
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**Good Shepherd
Catholic Church
Community
Center**

4665 Thomasville Rd,
Tallahassee, Fl 32309
GRC Project Number 21275

architecture
interior design
planning

**gilchrist
ross
crowe**

architects

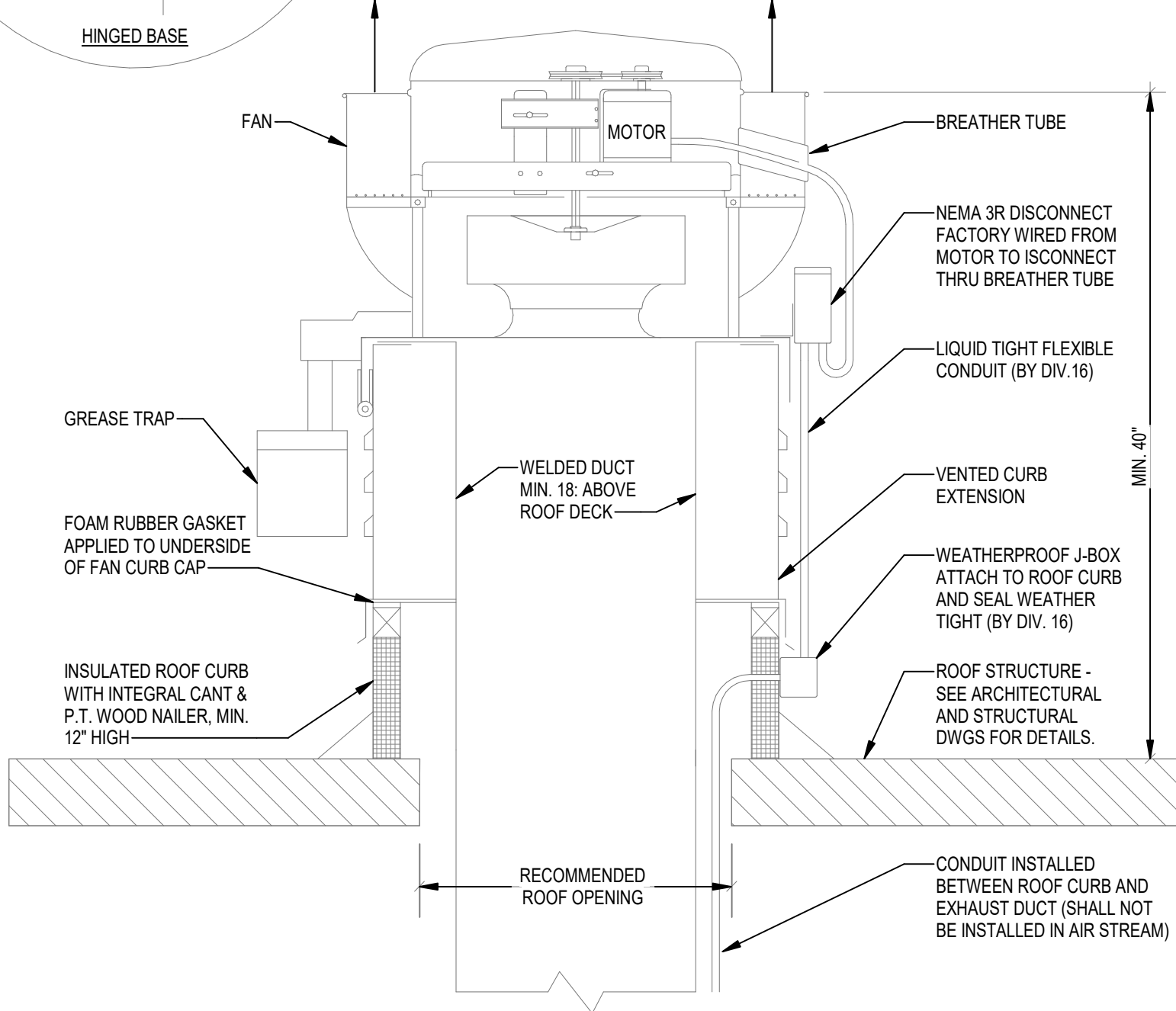
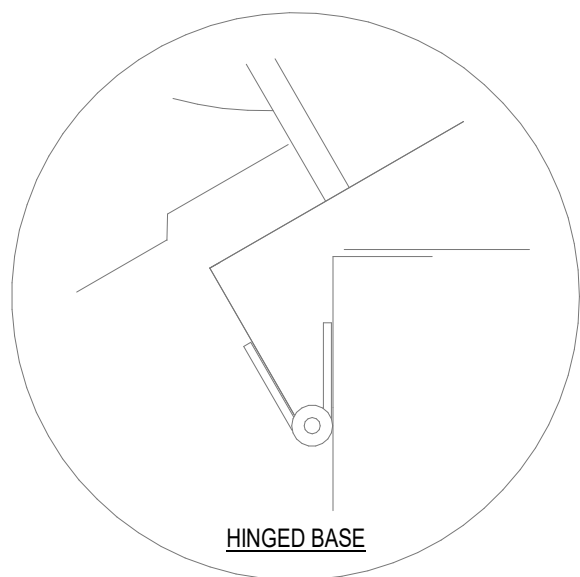
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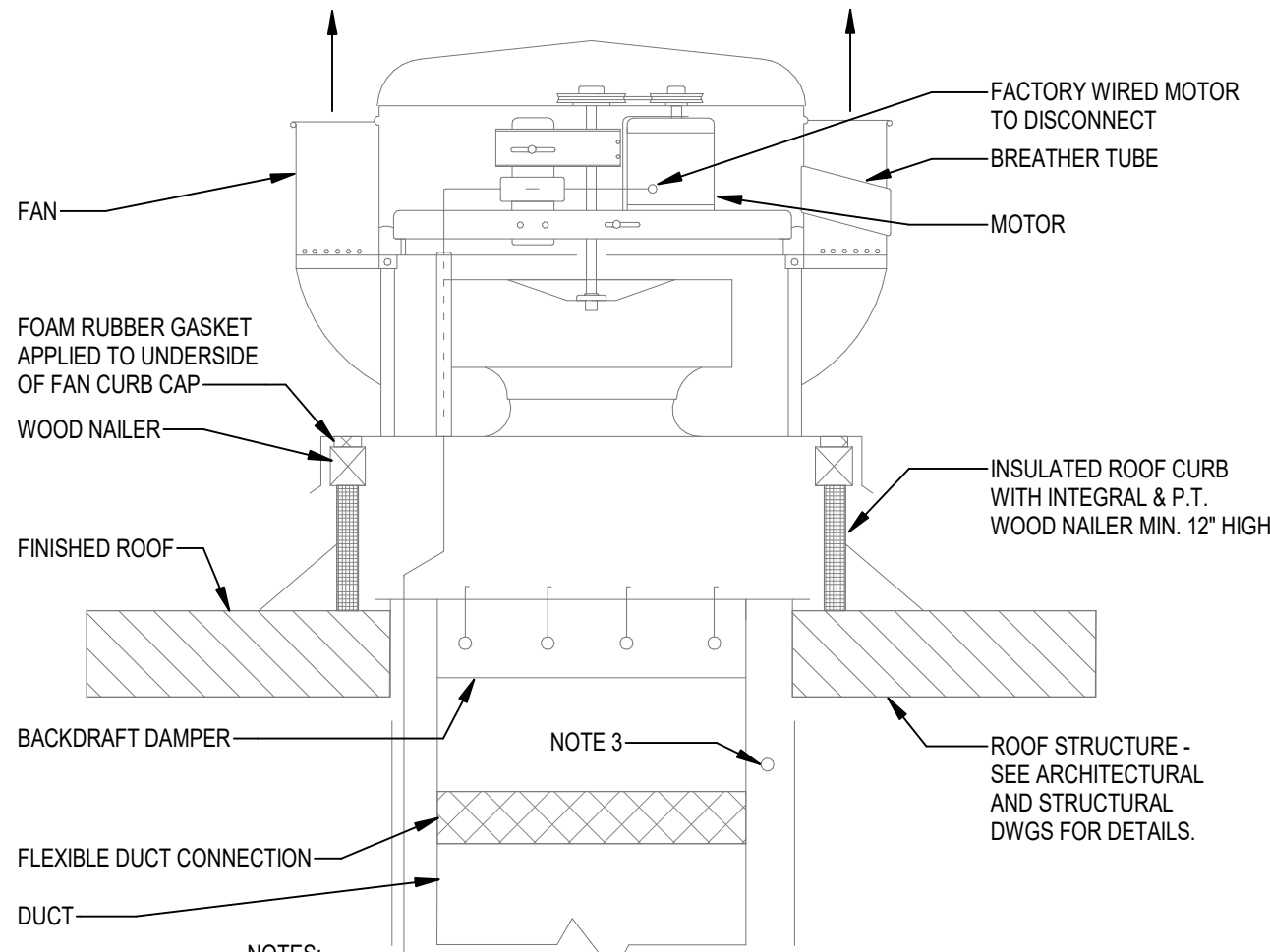
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Autodesk Docs\21-167 Good Shepherd Church\21-167 Good Shepherd Church - Multi-Purpose BLDG MEP R225.rvt

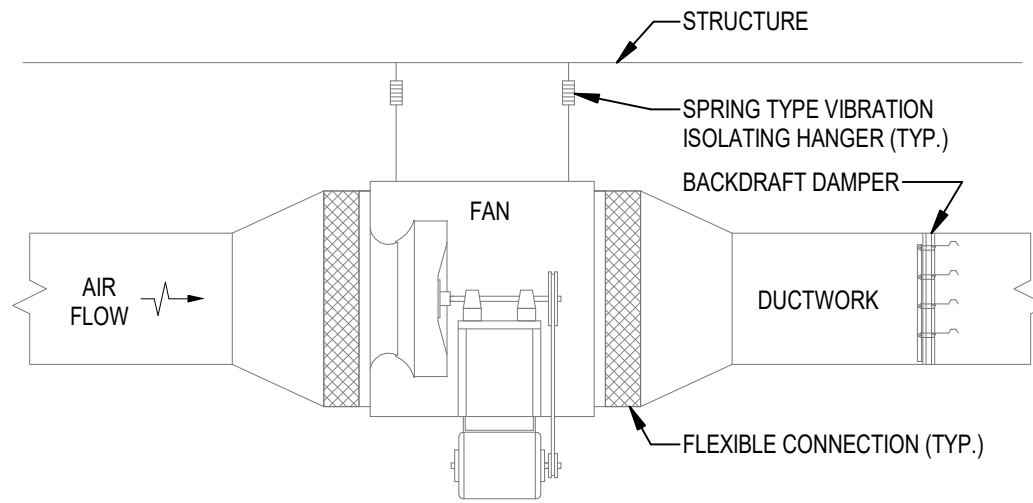
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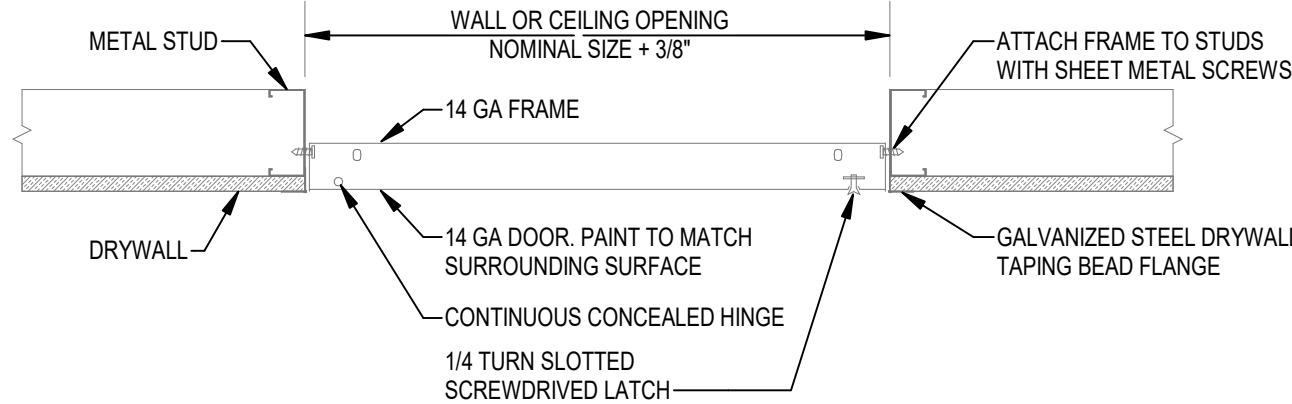
- NOTES:**
1. SECURE FAN TO CURB WITH SHEETMETAL SCREWS, 12" O.C. ALL AROUND.
 2. SECURE CURB TO ROOF WITH SHEETMETAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION.
 3. WIRING MUST NOT BE INSTALLED IN AIR STREAM.
 4. SEE _JM2.1 FOR ROOF CURB TIE-DOWN.



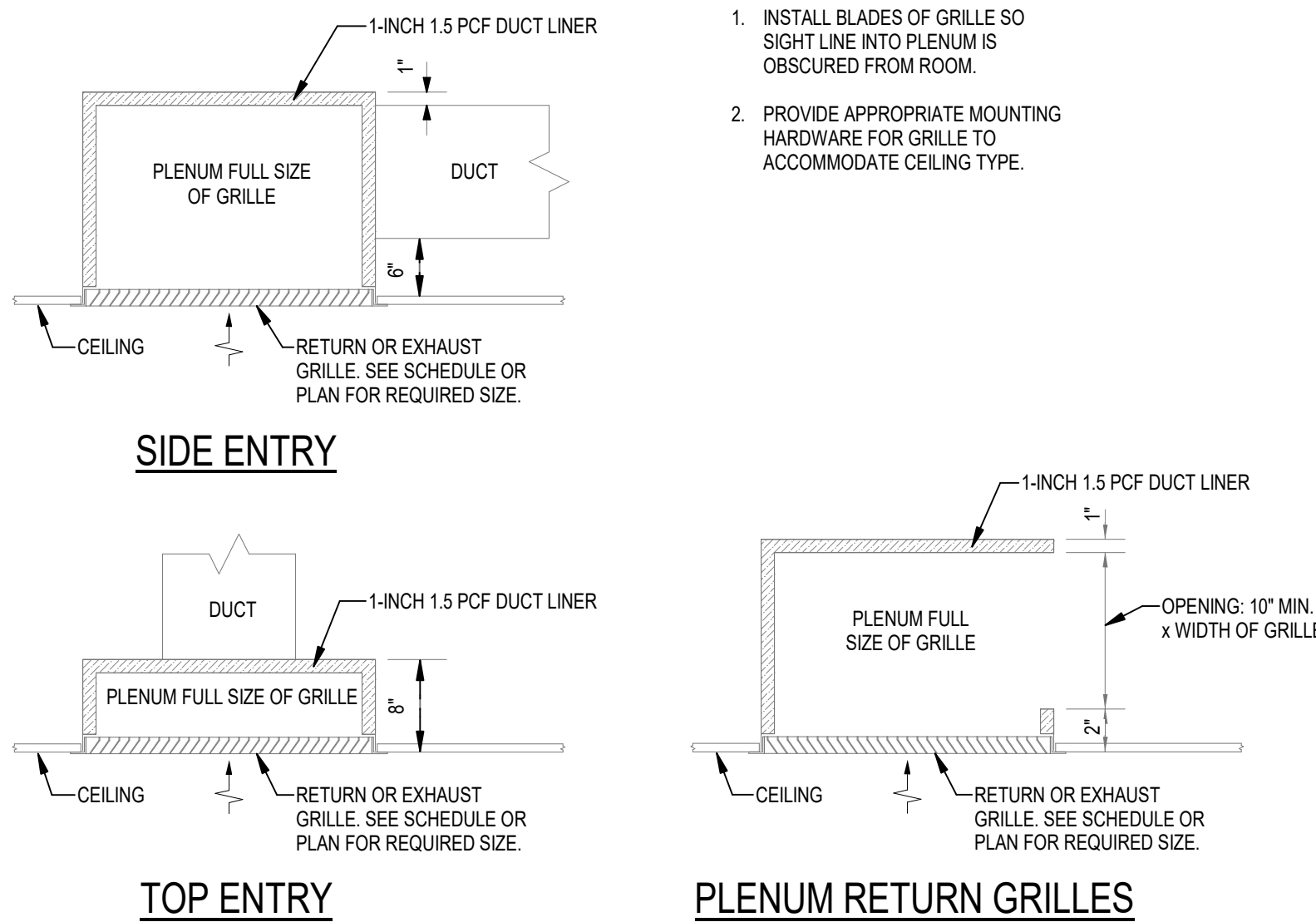
- NOTES:**
1. SECURE FAN TO CURB AS NECESSARY TO MEET CODE REQUIRED WIND LOADING.
 2. SECURE CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION AS NECESSARY TO MEET CODE REQUIRED WIND LOADING.
 3. MINIMUM 1 1/4" CLEARANCE FOR ELECTRICAL CONDUIT.
 4. SEE ROOF CURB AND TIE-DOWN DETAIL.



- NOTES:**
1. INSTALL TO ALLOW ACCESS FOR MAINTENANCE.
 2. PROVIDE DIRECT DRIVE FAN WHERE SCHEDULED.



- NOTES:**
1. ACCESS DOOR SHALL BE NOMINAL 24"x24" UNLESS NOTED OTHERWISE.
 2. LOCATE DOOR IN CEILING OR WALL TO ALLOW UNOBSTRUCTED ACCESS TO EQUIPMENT, DAMPERS, ETC. AND NOT IN CONFLICT WITH LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
 3. ACCESS PANELS LOCATED IN SECURE CEILINGS SHALL BE SECURITY TYPE.



- NOTES:**
1. INSTALL BLADES OF GRILLE SO SIGHT LINE INTO PLENUM IS OBSCURED FROM ROOM.
 2. PROVIDE APPROPRIATE MOUNTING HARDWARE FOR GRILLE TO ACCOMMODATE CEILING TYPE.

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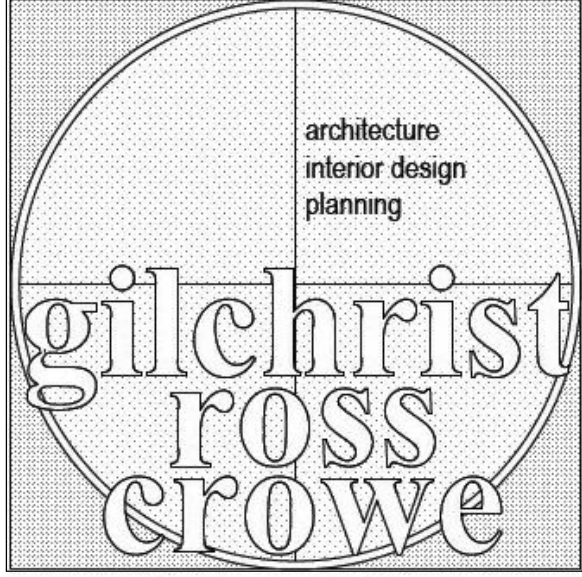
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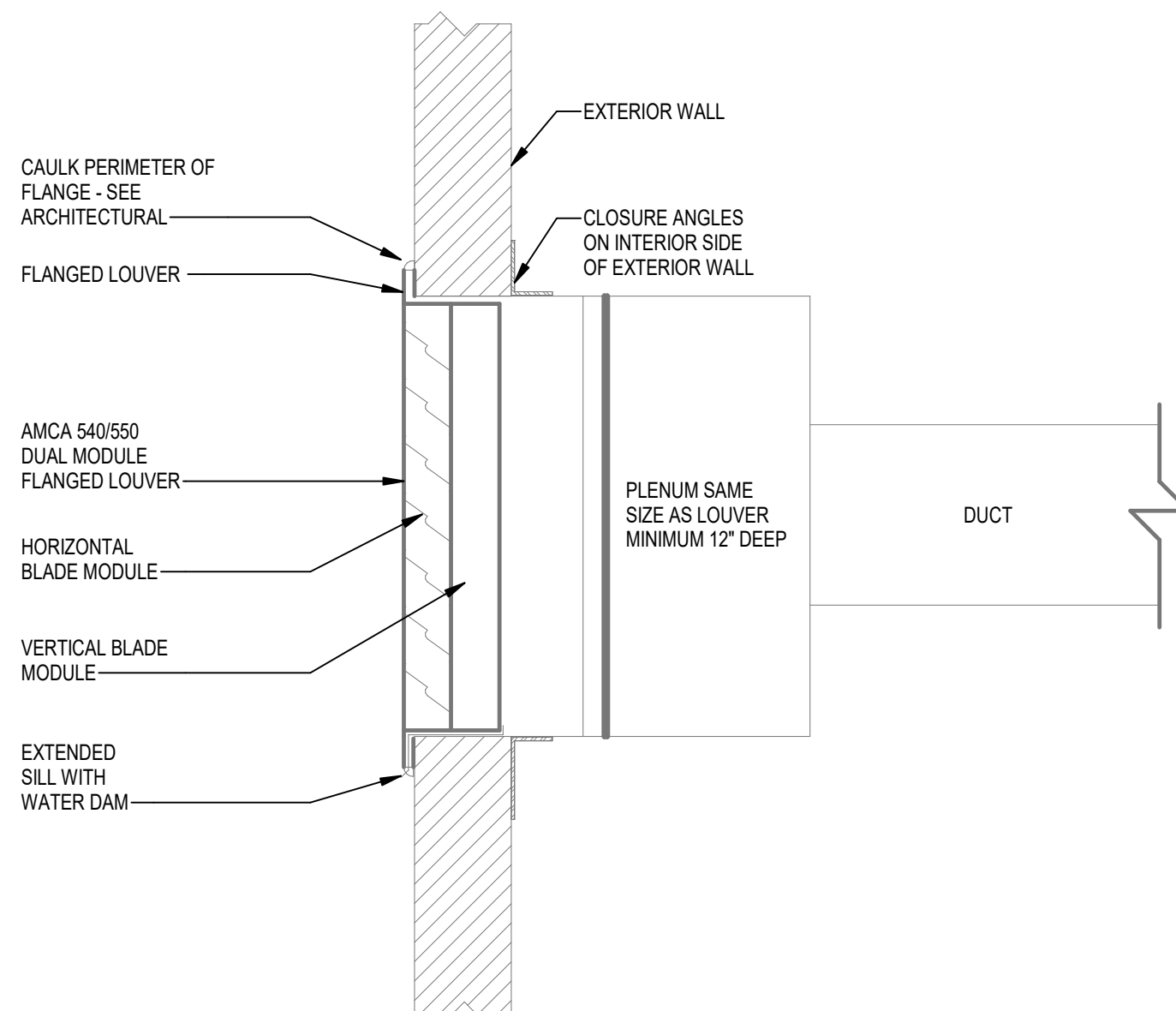


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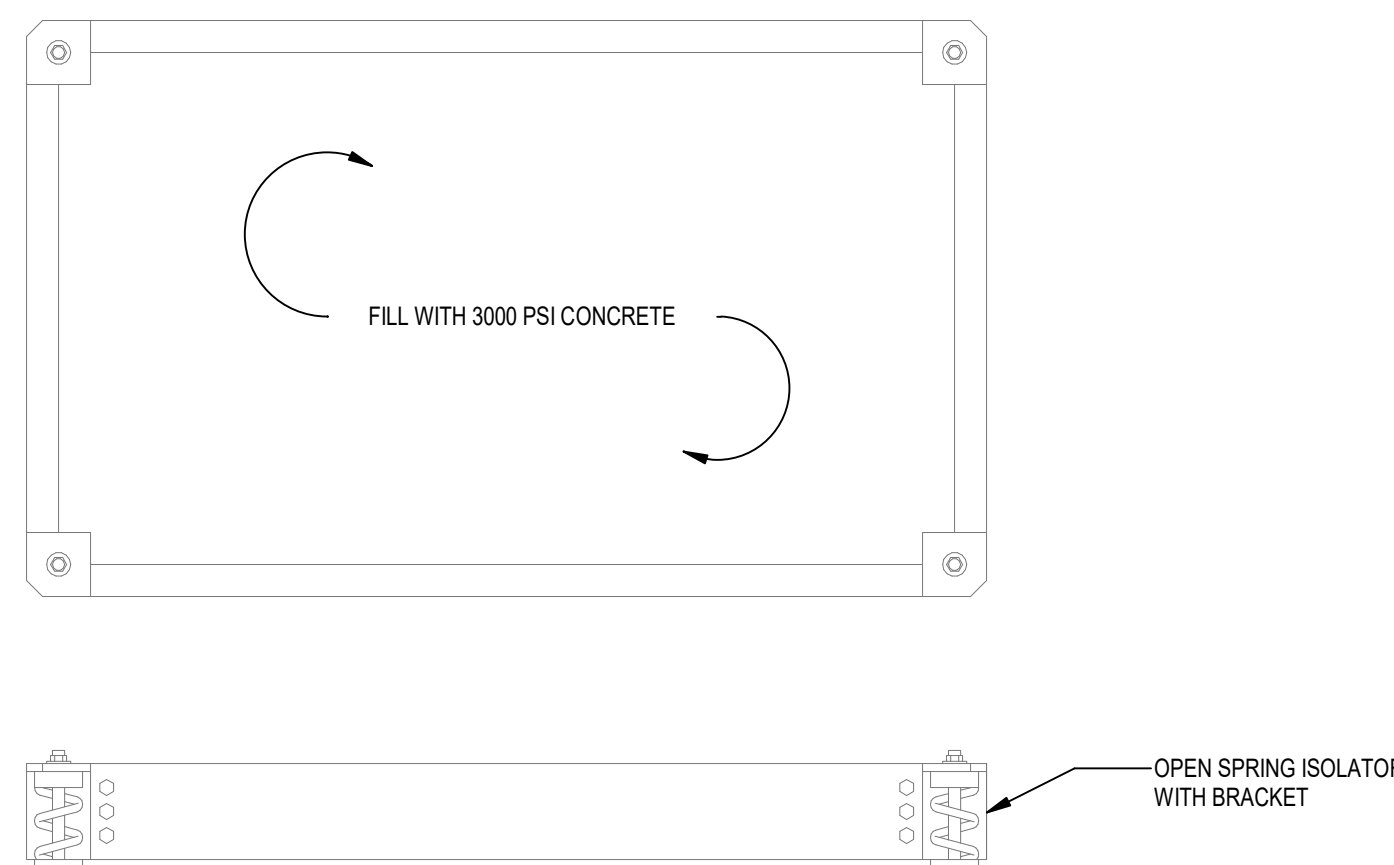
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G KITCHEN UPBLAST ROOF EXHAUST FAN - HINGED COVER



NOTE: PROVIDE ATTACHMENT HARDWARE RECOMMENDED BY FAN AND LOUVER MANUFACTURER

E IN-LINE FAN



- NOTES:**
1. DEPTH OF CHANNELS SHALL BE 1/12 OF LONGEST SPAN, 6" MINIMUM.
 2. PROVIDE REBAR WELDS IN PLACE.
 3. PROVIDE ADJUSTABLE ANCHOR BOLTS.

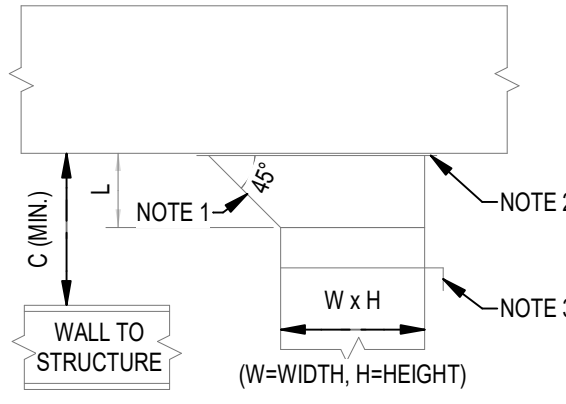
B RETURN OR EXHAUST CEILING GRILLE

A x B TRUNK DUCT (A=WIDTH, B=HEIGHT)		W x H (W=WIDTH, H=HEIGHT)		TRUNK DUCT HEIGHT (B MIN.)		C	
D		E (NOTE 5)		W x H (NOTE 5)		NO FIRE DAMPER	
6	8.5	12	6	8	9	12	
8	8.5	12	6	8	9	12	
10	9.5	16	6.75	10	10	13	
12	10.5	18	8.5	12	11	14	
14	10.5	20	9.5	12	11	14	
16	12	24	12	14	13	16	

- NOTES:**
1. 4" ENTRY.
 2. 1" WIDE FLANGE WITH GASKET SEAL AROUND ENTIRE PERIMETER.
 3. PROVIDE MANUAL BALANCING DAMPER. OPERATOR SHALL PENETRATE INSULATION.
 4. USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL.
 5. USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL. DAMPER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.

L = W/4 (4" MIN.)
H = B/2 (MAX.)
C = L+4 (WITH FIRE DAMPER)
C = L+2 (WITHOUT FIRE DAMPER)

ROUND DUCT

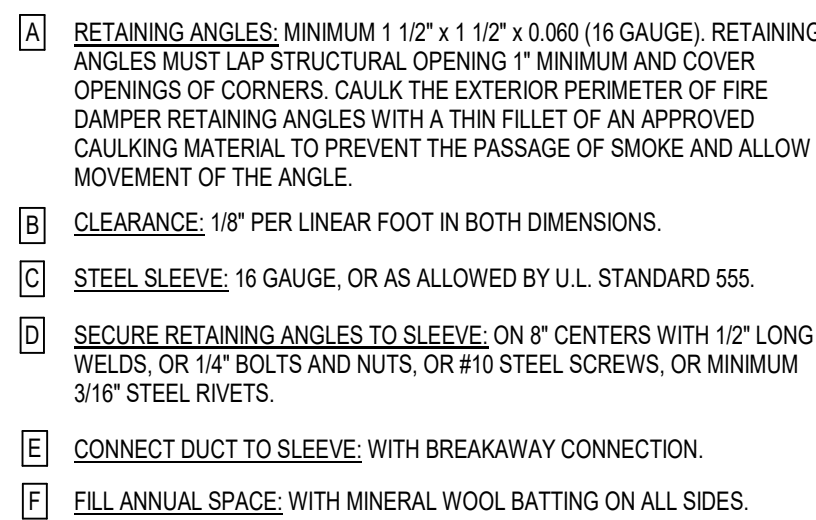


RECTANGULAR DUCT

H WALL MOUNTED LOUVER

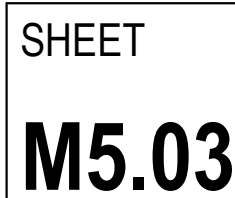
F INERTIA BASE

C TYPICAL TAKE-OFF FITTINGS

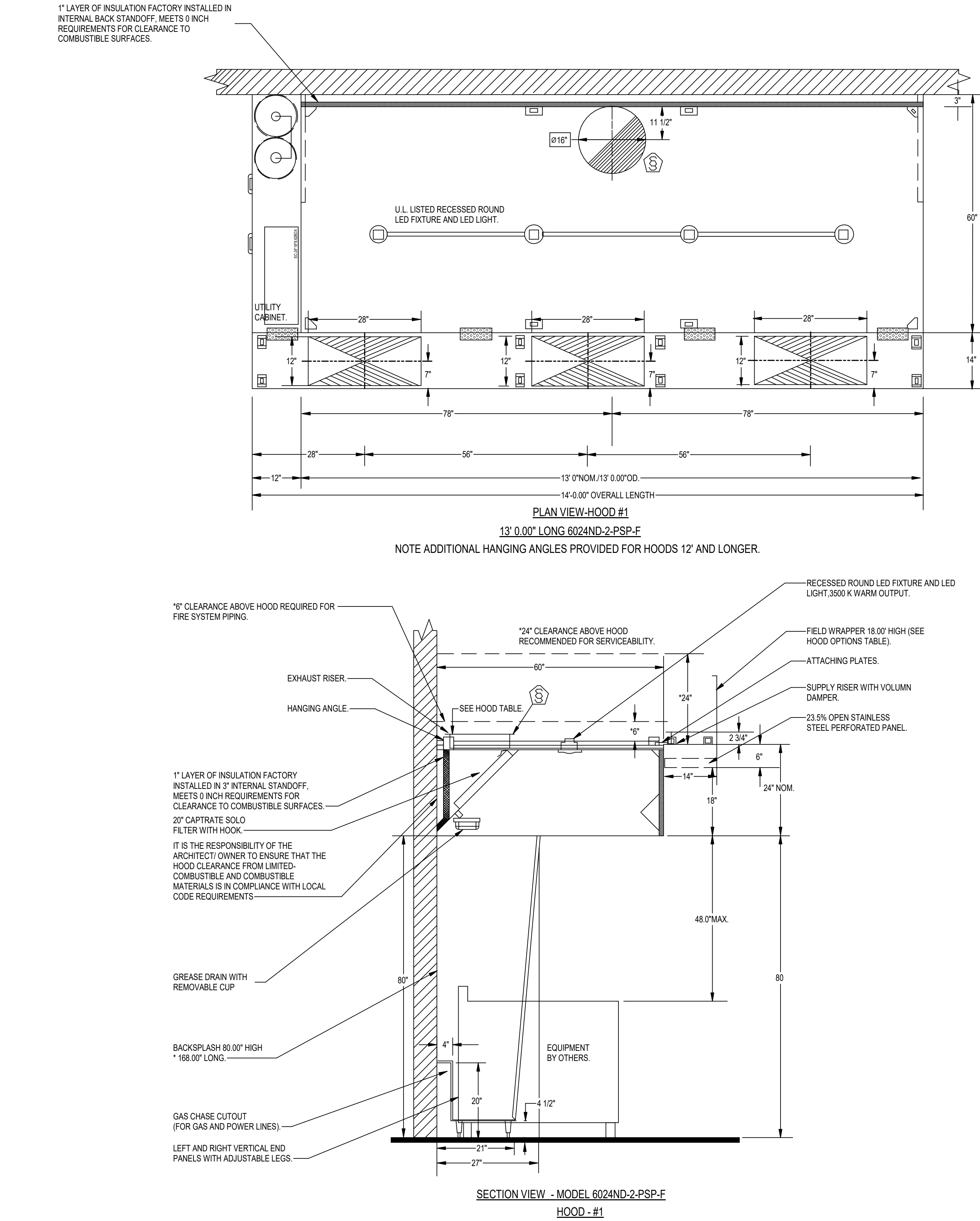


E PENETRATION OF FIRE RATED PARTITION NOT REQUIRING FIRE DAMPER

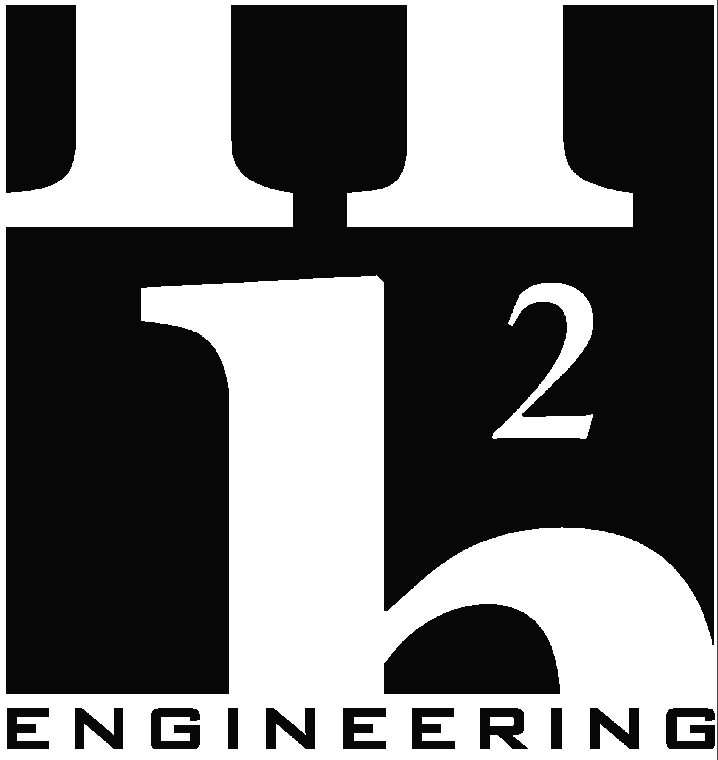
C	CONTINUOUS RA SLOTS
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A KITCHEN HOOD DETAIL



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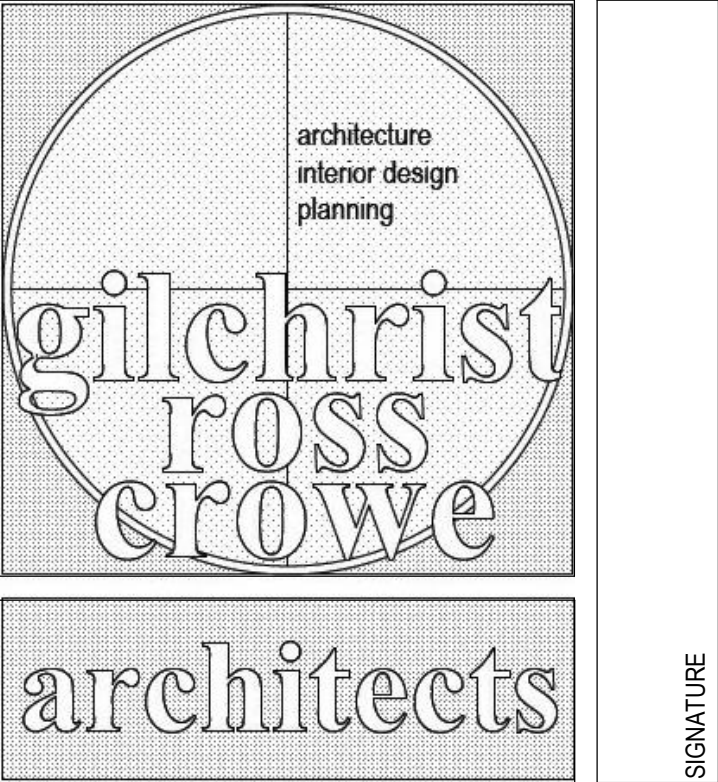
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