


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	SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
a. STANDARD 15	THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY - 2017
b. STANDARD 55	VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2019
c. STANDARD 62.1	ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
d. STANDARD 90.1	
2. ASME	BOILER AND PRESSURE VESSEL CODE - 2019
a. SECTION IV	RULES FOR CONSTRUCTION OF HEATING BOILERS
b. ASME A17.1	SAFETY CODE FOR ELEVATORS AND ESCALATORS - 2019
3. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).	
4. NATIONAL FIRE CODES	
a. NFPA 1	UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
b. NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM - 2019
d. NFPA 25	STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2020
e. NFPA 54	NATIONAL FUEL GAS CODE - 2021
f. NFPA 70	NATIONAL ELECTRICAL CODE - 2020
g. NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE - 2019
h. NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021
i. NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2021
j. NFPA 91	STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2020
k. NFPA 101	LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
5. FLORIDA BUILDING CODE, 2023 8TH EDITION	
a. BUILDING CODE	
b. ENERGY CONSERVATION CODE	
c. MECHANICAL CODE	
d. PLUMBING CODE	
e. FUEL GAS CODE	
f. ACCESSIBILITY CODE	
6. FLORIDA STATUTES	
a. CHAPTER 471	ENGINEERING
b. CHAPTER 533.80	BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
7. FLORIDA ADMINISTRATIVE CODE	
a. CHAPTER 98-7	FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
b. CHAPTER 61C-5	FLORIDA ELEVATOR SAFETY CODE
c. CHAPTER 61G15-34	RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
d. CHAPTER 69A-3	FIRE PREVENTION - GENERAL PROVISIONS
e. CHAPTER 69A-47	UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
f. CHAPTER 69A-60	THE FLORIDA FIRE PREVENTION CODE
8. ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS (ADAAG)	
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.	

ABBREVIATIONS	
AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
AHU	EXHAUST AIR UNIT
BAS	BUILDING AUTOMATION SYSTEM
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER
BF	BELOW FLOOR
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BRP	BRITISH THERMAL UNITS PER HOUR
BTUH	CONDENSATE
C	COOLING COIL
CC	CEILING DIFFUSER
CD	CUBIC FEET PER MINUTE
CFM	CHILLED WATER
CHW	CHILLED WATER SUPPLY PIPING
CHWS	CHILLED WATER RETURN PIPING
CHWR	CENTER OF PIPE
COP	CONSTANT VOLUME
CV	DIRECT DIGITAL CONTROL PANEL
DDC	DOOR GRILLE (24"x16", UNO)
DG	DOWN
DN	DEDICATED OUTSIDE AIR SYSTEM
DOAS	EXHAUST AIR GRILLE
EA	EXHAUST FAN
EAG	EXHAUST REGISTER
EF	FEET
ER	DEGREES FAHRENHEIT DRY BULB
F	DEGREES FAHRENHEIT WET BULB
*Fdb	FAN COIL UNIT
Fdb	FIRE DAMPER
FD	FILTER MIXING BOX
FMB	FEET PER MINUTE
FPM	COMBINATION FIRE/SMOKE DAMPER
FSD	GALLONS PER HOUR
GPH	GALLONS PER MINUTE
GPM	
HC	HEATING COIL
HHW	HEATING HOT WATER
HHWS	HEATING HOT WATER SUPPLY PIPING
HHWR	HEATING HOT WATER RETURN PIPING
HP	HORSEPOWER
IN	INCHES
LBG	LINEAR BAR GRILLE
MCA	MINIMUM CIRCUIT AMPACITY
MCCP	MAXIMUM OVERLOAD PROTECTION
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NIS	NOT IN SCOPE
N.O.	NORMALLY OPEN
O.A.	OUTSIDE AIR
P	PUMP
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SF	SUPPLY FAN
SMS	SHEET METAL SIZE
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
TAC	TRANSFER AIR GRILLE
TAS	TRANSFER AIR SLEEVE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TYP	TYPICAL
UC	DOOR UNDERCUT (3/4", UNO)
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VALVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VFM	VENTURI FLOW METER
VVT	VARIABLE VOLUME TERMINAL UNIT
WG	WATER GAUGE

COMMISSIONING NOTES	
1.	THE BUILDING MECHANICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION C408 "SYSTEMS COMMISSIONING".
2.	THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR PROVIDING THE SERVICES OF AN APPROVED COMMISSIONING PROVIDER FROM ONE OF THE FOLLOWING PROVIDERS: a. HZENGINERING b. MOSES ENGINEERING c. MITCHELL GULLEDGE ENGINEERING
3.	MECHANICAL SYSTEM TESTING SHALL ENSURE THAT COMPONENTS, EQUIPMENT, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. TESTING SHALL INCLUDE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD, AND EMERGENCY CONDITIONS.
4.	A COMMISSIONING PLAN SHALL BE DEVELOPED BY THE COMMISSIONING PROVIDER AND SHALL INCLUDE THE FOLLOWING ITEMS: (1) A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES; (2) A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES, OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED; (3) FUNCTIONS TO BE TESTED, INCLUDING BUT NOT LIMITED TO, CALIBRATIONS AND CONTROLS; (4) CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED, INCLUDING BUT NOT LIMITED TO, AFFIRMING WINTER AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS; (5) MEASURABLE CRITERIA FOR PERFORMANCE.
5.	PRIOR TO PASSING THE FINAL INSPECTION, THE COMMISSIONING PROVIDER SHALL PROVIDE EVIDENCE OF SYSTEMS COMMISSIONING AND COMPLETION. A COMPLETED PRELIMINARY REPORT THE COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE PROVIDED TO THE OWNER, CERTIFIED BY THE COMMISSIONING PROVIDER. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT" AND SHALL IDENTIFY: (1) ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING THAT HAVE NOT BEEN CORRECTED AT THE TIME OF THE REPORT PREPARATION; (2) DEFERRED TESTS THAT CANNOT BE PERFORMED DUE TO CLIMATIC CONDITIONS; AND (3) CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF DEFERRED TESTS. THE PRELIMINARY COMMISSIONING REPORT SHALL BE MADE AVAILABLE TO THE CODE OFFICIAL AT THEIR REQUEST.
6.	WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY, PROVIDE THE FINAL COMMISSIONING REPORT TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND SHALL INCLUDE (1) RESULTS OF FUNCTIONAL PERFORMANCE TESTS; (2) DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED; (3) FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS, INCLUDING MEASURED CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY. EXCEPTION: DEFERRED TESTS WHICH CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION FOR CLIMATIC CONDITIONS.
7.	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 CONTRACTORS.

HVAC NOTES	
1.	PRESSURE TEST PIPING SYSTEMS WITH WATER AT 100 PSI 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 FILL. PRESSURE SHALL REMAIN ON SYSTEM UNTIL INSPECTED BY ENGINEER.
2.	TRAP AIR CONDITIONING CONDENSATE AND RUN TO SAFEWASTE AT LOCATION SHOWN ON PLANS.
3.	COMPLETELY FLUSH AND CLEAN THE CHILLED WATER AND HEATING HOT WATER SYSTEMS. SEE WATER TREATMENT SPECIFICATIONS.
4.	PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF CHILLED WATER AND HEATING HOT WATER PIPING SYSTEMS.
5.	COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATIONS WITH ELECTRICAL TO PROVIDE THE REQUIRED CLEARANCES AROUND ALL ELECTRICAL PANELS, SWITCHGEAR, ETC.
6.	INSTALLATION OF EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR REMOVAL OF FILTERS AND FOR MAINTENANCE.
7.	DUCT SIZES GIVEN ARE SHEET METAL SIZES.
8.	THE RETURN AIR FROM INDIVIDUAL ROOMS IS THRU AN ABOVE-CEILING RETURN AIR PLENUM.
9.	THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
10.	PROVIDE NEW AIR FILTERS IN EACH UNIT REQUIRING FILTERS 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.
11.	VACUUM CLEAN THE INTERIOR OF ALL HVAC EQUIPMENT PRIOR TO SUBSTANTIAL COMPLETION.
12.	WHERE ROUND DUCT IS INDICATED ON PLANS, USE SPIRAL WOUND DUCTWORK ONLY.
13.	PROVIDE 3 DIAMETERS OF STRAIGHT DUCT AT INLET TO AIR TERMINAL UNITS. DUCT SIZE SHALL BE SAME AS BOX INLET. IF INLET DUCT LENGTH EXCEEDS 5 FEET, INCREASE INLET DUCT SIZE BY 4" UP TO 3 FEET FROM BOX INLET.
14.	PROVIDE FLEXIBLE DUCT CONNECTIONS AT EACH EQUIPMENT CONNECTION.
15.	OUTSIDE AIR INTAKES SHALL NOT BE LOCATED ANY CLOSER THAN 15 FEET FROM ANY CHIMNEY OR EXHAUST OUTLET OR PLUMBING VENT TERMINAL.
16.	PROVIDE FIRE DAMPER AT EVERY DUCT PENETRATION OF FIRE RATED CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE PARTITIONS AND BARRIERS. WHERE FIRE DAMPERS ARE REQUIRED, PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
17.	DUCT MOUNTED SMOKE DETECTORS (FURNISHED BY FIRE ALARM CONTRACTOR) ARE REQUIRED IN SUPPLY TRUNK DUCT FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY GREATER THAN 2000 CFM AND ELSEWHERE INDICATED ON PLANS. COORDINATE WITH FIRE ALARM CONTRACTOR FOR PLACEMENT OF DETECTOR. WHERE DUCT MOUNTED SMOKE DETECTORS ARE REQUIRED, PROVIDE DUCT ACCESS DOORS TO ALLOW VIEWING AND SERVICING. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
18.	PROVIDE SMOKE DAMPER AT DUCT PENETRATIONS OF SMOKE BARRIERS, WHETHER SHOWN ON THE PLANS OR NOT. SEE ARCHITECTURAL PLANS FOR LOCATION OF SMOKE BARRIERS, WHERE SMOKE DAMPERS OR COMBINATION FIRE/SMOKE DAMPERS ARE REQUIRED. PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS AND TO ALLOW VIEWING AND REMOVAL OF SMOKE DETECTORS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
19.	WHERE CONTROL DAMPERS OR COILS ARE INSTALLED IN DUCTWORK, PROVIDE DUCT ACCESS DOORS TO ALLOW INSPECTION OF DEVICE. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
20.	DUCTWORK SHALL 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.
21.	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.
22.	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.
23.	MINIMUM PIPE SIZE FOR CHILLED WATER, HEATING HOT WATER AND COOLING COIL CONDENSATE SHALL BE 3/4". REFER TO SCHEDULE FOR RUNOUT PIPE SIZE TO INDIVIDUAL EQUIPMENT.
24.	SECTIONS OF PIPE STORED ON SITE OR PLACED IN TRENCHES SHALL HAVE EACH OPEN END COVERED AT ALL TIMES EXCEPT WHILE MAKING CONNECTIONS. IF DEBRIS IS FOUND INSIDE PIPE, IT SHALL BE COMPLETELY REMOVED PRIOR TO ASSEMBLY.
25.	PRIOR TO FINAL INSPECTION, PROVIDE CERTIFIED TEST & BALANCE REPORT AND OPERATIONS & MAINTENANCE MANUALS TO THE OWNER.
26.	PROVIDE DUCT ACCESS DOOR AT EACH FLOW MEASURING STATION.
27.	DUCT CONSTRUCTION INCLUDING SHEET METAL THICKNESS, SEAM AND JOINT CONSTRUCTION, REINFORCEMENT, AND HANGERS AND SUPPORTS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE DUCT."

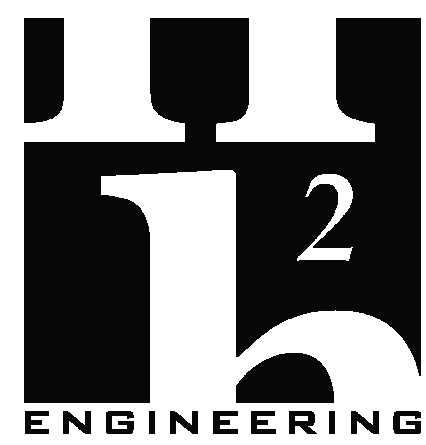
GENERAL NOTES	
1.	DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS.
2.	FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR DEFICIENCIES ASSOCIATED THEREWITH.
3.	BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
4.	THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
5.	CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
6.	WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
7.	ERECT AND MAINTAIN REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
8.	COORDINATE AND SEQUENCE CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
9.	THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
10.	THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
11.	THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
12.	THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
13.	CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA OR SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
14.	THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
15.	PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
16.	NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
17.	PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
18.	SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
19.	ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 150 MPH WIND LOAD.
20.	CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
21.	BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
22.	CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
23.	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.
DRAWING INDEX	
M001	GENERAL NOTES & LEGENDS
M002	GENERAL NOTES & LEGENDS
M301	CHW PIPING SCHEMATIC
M302	HHW PIPING SCHEMATIC
M401	SCHEDULES
M402	SCHEDULES
M403	SCHEDULES
M404	SCHEDULES
M101-N	FIRST FLOOR PLAN NORTH
M101-S	FIRST FLOOR PLAN SOUTH
M102-N	SECOND FLOOR PLAN NORTH
M102-S	SECOND FLOOR PLAN SOUTH
M103	ROOF PLAN
M201	ENLARGED PLANS CHILLER YARD
M202	ENLARGED PLANS MECHANICAL RM 1-086
M203	ENLARGED PLANS MECHANICAL RM 2-038
M204	ENLARGED PLANS MECHANICAL RM 2-012
M205	ENLARGED PLANS
M503	DETAILS
M502	DETAILS
M501	DETAILS
M504	DETAILS
PROJECT PHASE	
CONSTRUCTION DOCUMENTS	
DATE	DRAWN BY
15 JANUARY 2025	JDR
PROJECT NO	CHECKED BY
68100	JLT
SHEET TITLE	
GENERAL NOTES & LEGENDS	
SHEET NO	REV NO
M001	



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NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS.



ENGINEERING

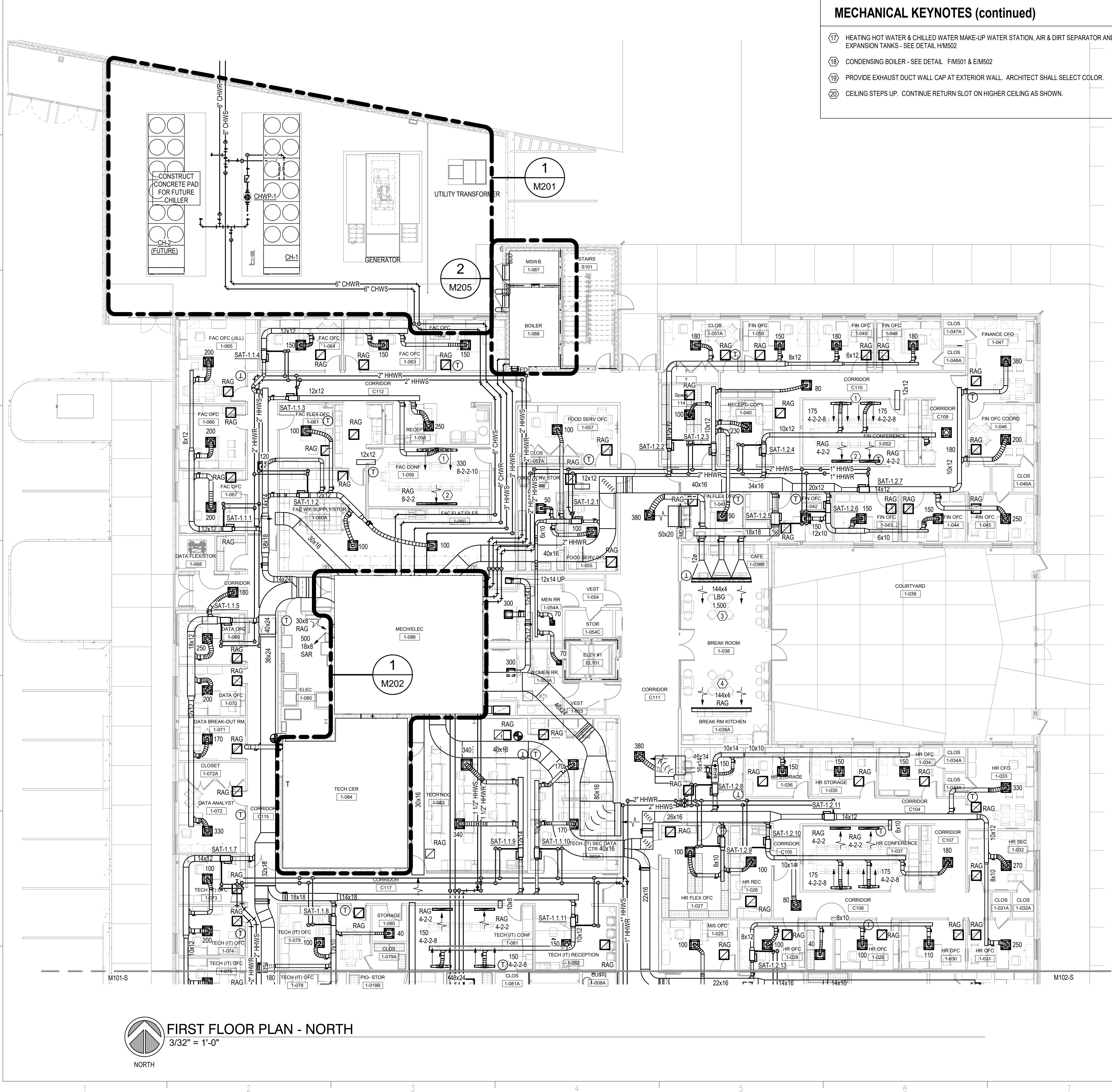
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**WCSD EDUCATIONAL
ANCILLARY FACILITIES -
DISTRICT OFFICE**

**RECEIVED
ALLSTATE CONSTRUCTION
01-16-2025**



MECHANICAL KEYNOTES (continued)

- 17 HEATING HOT WATER & CHILLED WATER MAKE-UP WATER STATION, AIR & DIRT SEPARATOR AND EXPANSION TANKS - SEE DETAIL HM502
- 18 CONDENSING BOILER - SEE DETAIL FM501 & EM502
- 19 PROVIDE EXHAUST DUCT WALL CAP AT EXTERIOR WALL. ARCHITECT SHALL SELECT COLOR.
- 20 CEILING STEPS UP. CONTINUE RETURN SLOT ON HIGHER CEILING AS SHOWN.

COORDINATION NOTES

1. CONTRACTOR TO COORDINATE THE LOCATION, ALIGNMENT, ELEVATION AND/OR SPACING OF ANY EXPOSED DEVICE, FIXTURE, AND/OR PIECE OF EQUIPMENT WITH THE ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND/OR REFLECTED CEILING PLANS. DISCREPANCIES AND/OR CONFLICTS CONTAINED WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IF AN EXPOSED ITEM IS NOT INDICATED ON THE ARCHITECTURAL DOCUMENTS NOTIFY THE ARCHITECT FOR CLARIFICATION OF PLACEMENT PRIOR TO INSTALLATION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC LOCATIONS OF CEILING MOUNTED DEVICES. DEVICES SHALL BE INSTALLED IN THE CENTER OF CEILING TILES WHERE ACOUSTICAL CEILING SYSTEMS ARE SPECIFIED AND ON THE SAME CENTERLINES WITH OTHER ADJACENT CEILING MOUNTED DEVICES IN THE SAME SPACE. IF A DEVICE'S LOCATION IS NOT CLEARLY INDICATED OR THERE IS A CONFLICT WITHIN THE CONTRACT DOCUMENTS NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION.
3. LOCATION OF WALL AND FLOOR MOUNT DEVICES IS DIAGMMATIC AND SHOWN FOR CLARITY. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DEVICES. WHERE NOT INDICATED ON ARCHITECT'S PLAN COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
4. AT EXTERIOR LOCATIONS AND IN SPACES WITH EXPOSED STRUCTURE EXPOSED UTILITIES (INCLUDING PIPING, DUCTWORK, RACEWAYS, ETC.) SHALL BE INSTALLED NEATLY, BUNDLED TOGETHER TO EXTENT POSSIBLE AND RUN AT RIGHT ANGLES TO BUILDING LINES. THESE UTILITIES SHALL BE PAINTED TO MATCH ADJACENT SURFACE OR AS DIRECTED BY ARCHITECT. HANGERS, STEEL SHAPES AND SLOTTED STEEL SUPPORTS SHALL BE PAINTED TO MATCH RACEWAY OR AS DIRECTED BY ARCHITECT. TO EXTENT POSSIBLE CONTRACTOR SHALL AVOID EXPOSED RACEWAYS BY INSTALLING UTILITIES BELOW GRADE, IN WALL, OR ABOVE ADJACENT CONCEALED CEILING SPACES.
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3. PROVIDE MINIMUM 12" HIGH PLENUM LINED WITH 1" THICK INSULATION ON TOP OF CEILING MOUNTED RETURN AND EXHAUST AIR GRILLES (W/L TO MATCH GRILLE).
4. PROVIDE IDENTIFICATION STICKERS (1/2" ROUND) ON GRID WHERE VALVES OR TERMINAL UNITS ARE LOCATED ABOVE ACCESSIBLE CEILINGS.
5. ABOVE GROUND HYDRONIC PIPING SHALL BE METAL PER SPECIFICATION 232113.12 ABOVE GROUND METAL HYDRONIC PIPING; BELOW GRADE HYDRONIC PIPING MAY BE PLASTIC PER SPECIFICATION 232113.15 UNDERGROUND PLASTIC HYDRONIC PIPING.

MECHANICAL KEYNOTES

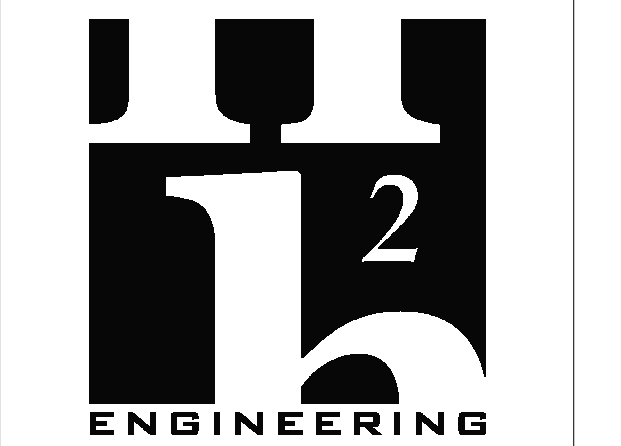
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- 16 BASE MOUNTED END SUCTION SECONDARY PUMP - SEE DETAIL CM501



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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251 E. 7TH AVENUE TALLAHASSEE FL 32303
(850) 222-7442
www.emiarch.com
LICENSE # A-000097 © 2000-13

NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2" SCALE NOTED ON THESE DRAWINGS.



H2 ENGINEERING
H2E PROJECT No. 17-17
114 EAST 5TH AVENUE TALLAHASSEE, FL
32303 PHONE 850.224.7922
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Florida Registry #2485
Jeffrey L. Tyler, P.E. #57093

WCSD EDUCATIONAL ANCILLARY FACILITIES - DISTRICT OFFICE

RECEIVED
ALLSTATE CONSTRUCTION
01-16-2025

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 15 JANUARY 2025	DRAWN BY JDR
PROJECT NO 68100	CHECKED BY JLT

SHEET TITLE
FIRST FLOOR PLAN NORTH

SHEET NO M101-N	REV NO
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FIRST FLOOR PLAN - NORTH
3/32" = 1'-0"
NORTH

1/15/2025 3:33:50 PM

MECHANICAL KEYNOTES (continued)

- 17 HEATING HOT WATER & CHILLED WATER MAKE-UP WATER STATION, AIR & DIRT SEPARATOR AND EXPANSION TANKS - SEE DETAIL HM502
- 18 CONDENSING BOILER - SEE DETAIL FM501 & EM502
- 19 PROVIDE EXHAUST DUCT WALL CAP AT EXTERIOR WALL. ARCHITECT SHALL SELECT COLOR.
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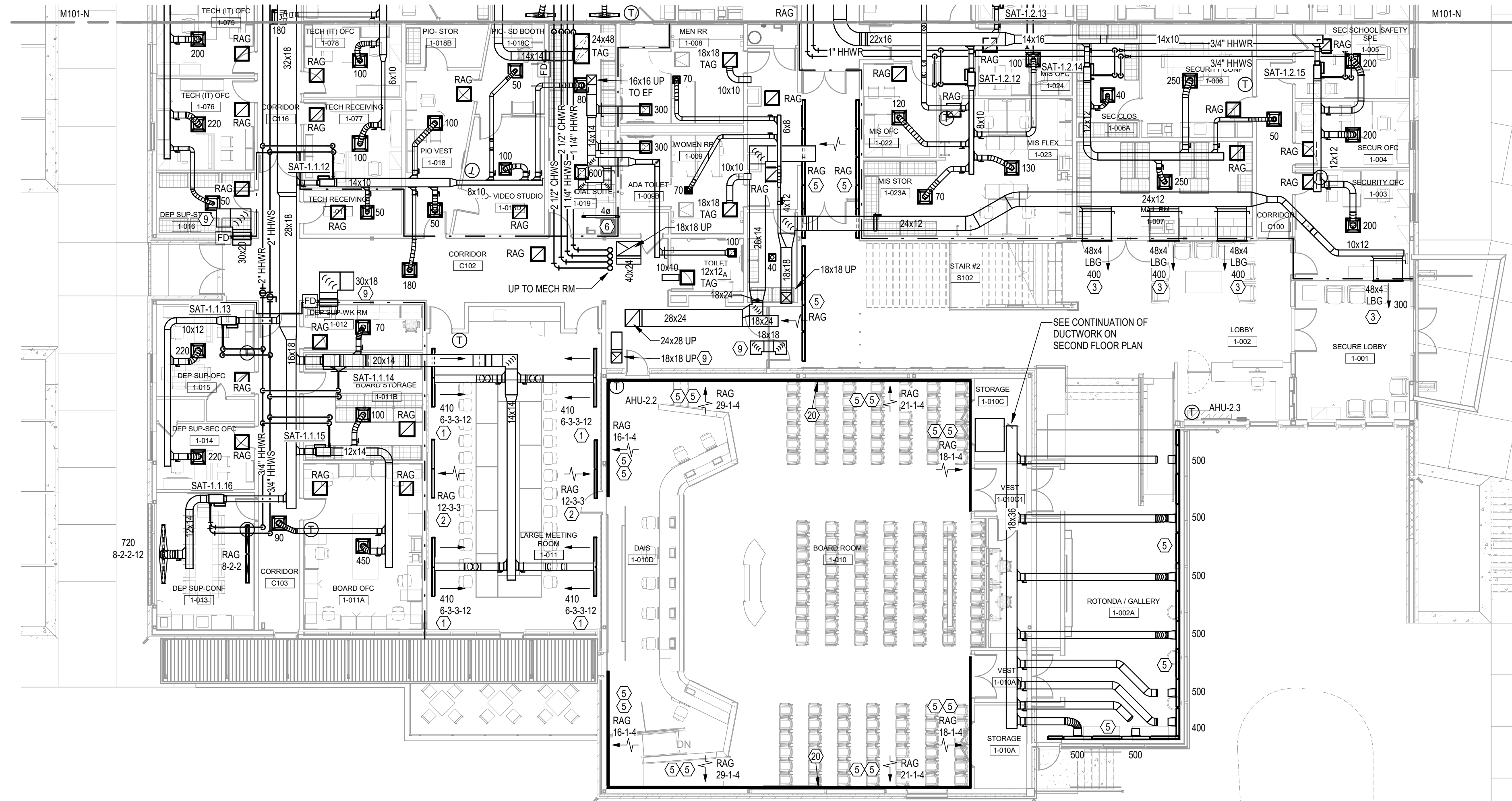
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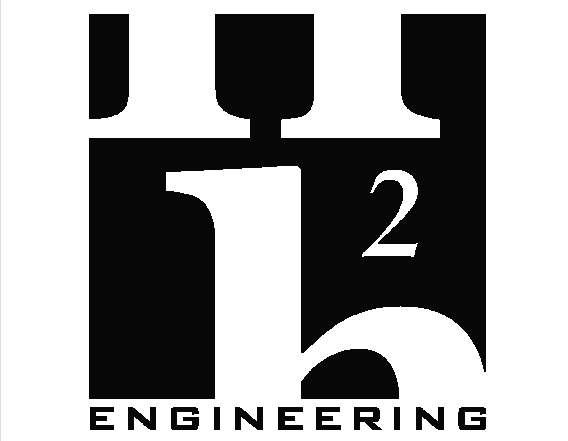
FIRST FLOOR PLAN - SOUTH
3/32" = 1'-0"
NORTH



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

ELLIOTT MARSHALL PINES PA. (EMI architects)
251 E. 7TH AVENUE TALLAHASSEE FL 32303
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LICENSE #A-00000008 0000153

NOTE:
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Jeffrey L. Tyler, P.E. #57093

**WCSD EDUCATIONAL
ANCILLARY FACILITIES -
DISTRICT OFFICE**

RECEIVED
ALLSTATE CONSTRUCTION
01-16-2025

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 15 JANUARY 2025	DRAWN BY JDR
PROJECT NO 68100	CHECKED BY JLT

SHEET TITLE
**FIRST FLOOR PLAN
SOUTH**

SHEET NO M101-S	REV NO
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MECHANICAL KEYNOTES (continued)

- 17 HEATING HOT WATER & CHILLED WATER MAKE-UP WATER STATION, AIR & DIRT SEPARATOR AND EXPANSION TANKS - SEE DETAIL HM502
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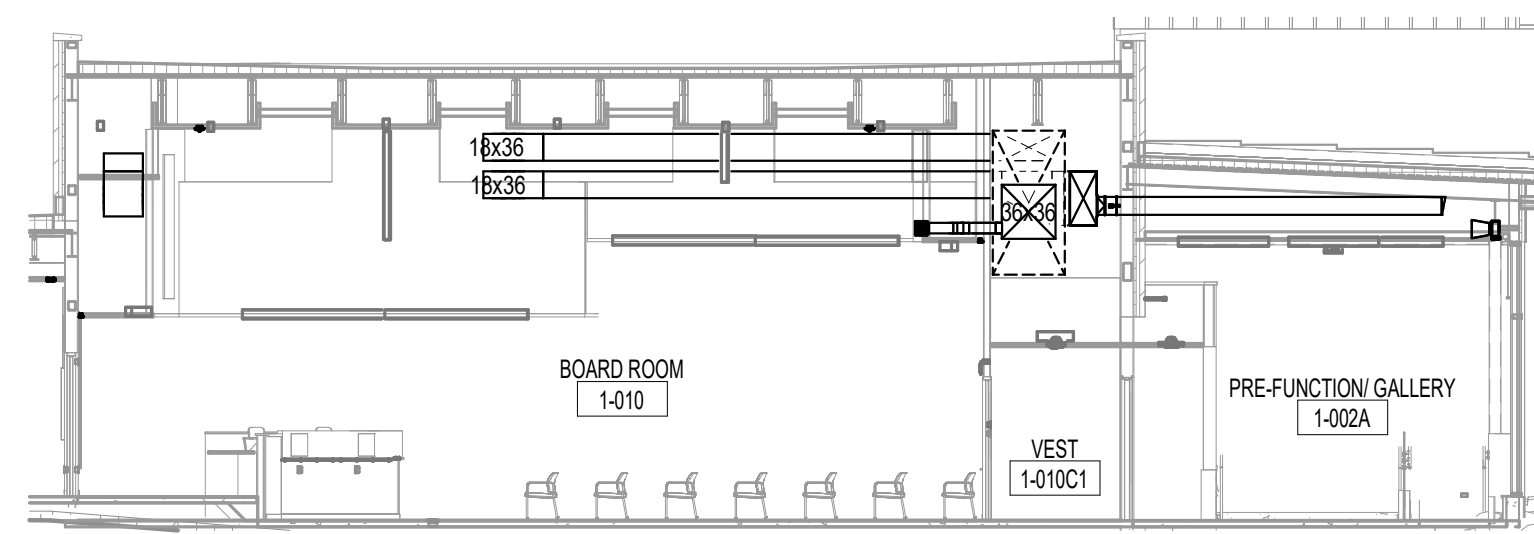
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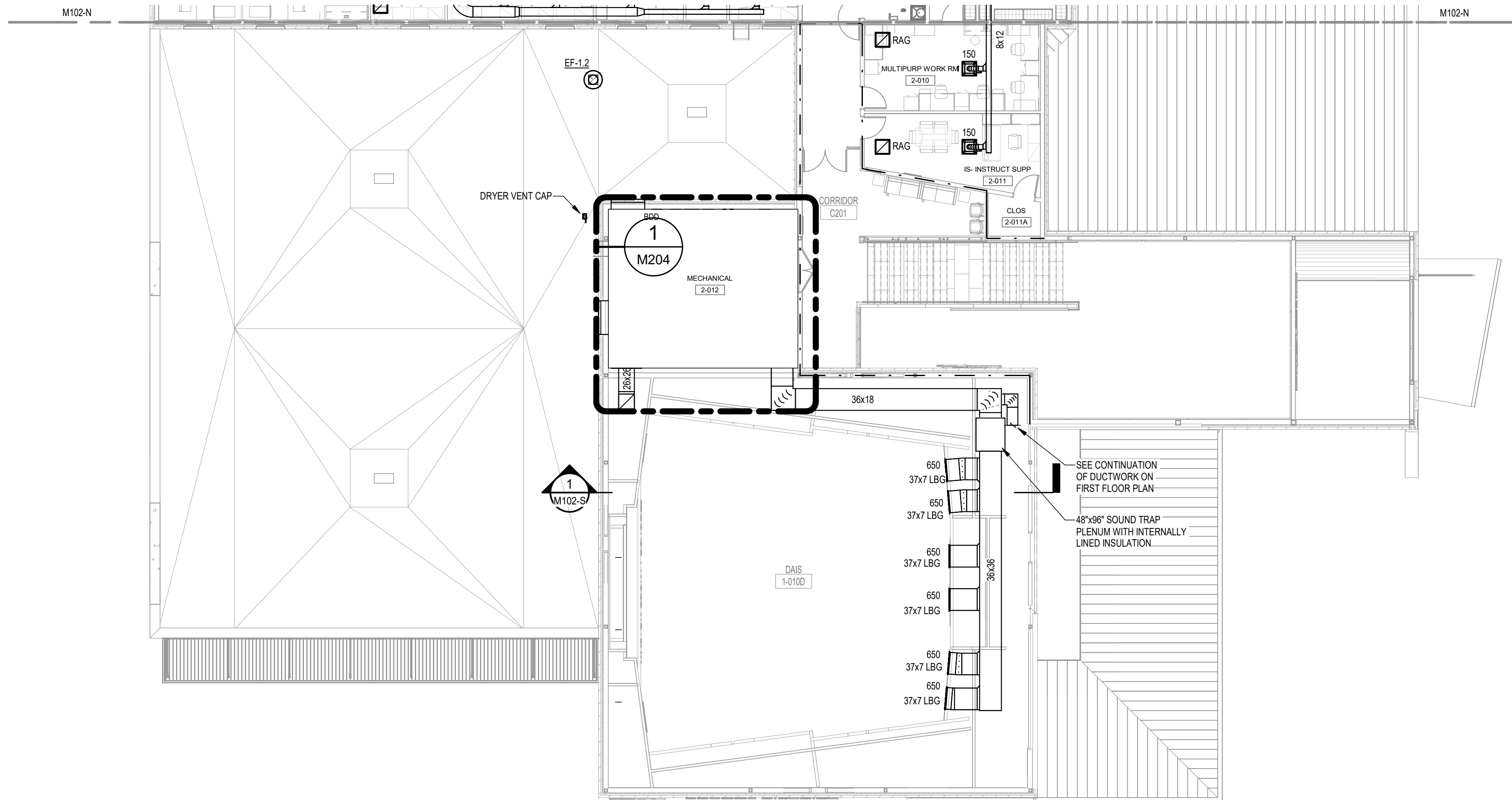
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3. PROVIDE MINIMUM 12" HIGH PLENUM LINED WITH 1" THICK INSULATION ON TOP OF CEILING MOUNTED RETURN AND EXHAUST AIR GRILLES (WXL TO MATCH GRILLE).
4. PROVIDE IDENTIFICATION STICKERS (1/2" ROUND) ON GRID WHERE VALVES OR TERMINAL UNITS ARE LOCATED ABOVE ACCESSIBLE CEILINGS.
5. ABOVE GROUND HYDRONIC PIPING SHALL BE METAL PER SPECIFICATION 232113.12 "ABOVE GROUND METAL HYDRONIC PIPING". BELOW GRADE HYDRONIC PIPING MAY BE PLASTIC PER SPECIFICATION 232113.15 "UNDERGROUND PLASTIC HYDRONIC PIPING".

MECHANICAL KEYNOTES

- 1 PROVIDE SLOT SUPPLY DIFFUSER WITH FLANGE PLASTER FRAME. CONCEALED MOUNTING MOUNTING AND SQUARE PLENUM. WHERE INSTALLED IN LAY-IN CEILING PROVIDE TEGULAR LAY IN FRAME. LENGTH, INLET SIZE, NUMBER OF SLOTS AND SLOT WIDTH INDICATED ON PLANS. PRICE; SDS (TYPE 7 OR TYPE 17) SDB OR APPROVED EQUAL - SEE DETAIL EM503.
- 2 PROVIDE SLOT RETURN AIR GRILLE WITH FLANGE PLASTER FRAME. CONCEALED MOUNTING WITHOUT PLENUM. WHERE INSTALLED IN LAY-IN CEILING PROVIDE TEGULAR LAY IN FRAME. LENGTH, NUMBER OF SLOTS AND SLOT WIDTH INDICATED ON PLANS. PRICE; SDR (TYPE 7 OR TYPE 17) OR APPROVED EQUAL - SEE DETAIL DM503.
- 3 LINEAR BAR GRILLE, 0-DEG DEFLECTION, 3/32" BARS ON 1/4" SPACING WITH 3/4" FLANGED FRAME AND DIRECTIONAL VANES MOUNTED BEHIND GRILLE. LENGTH AND HEIGHT INDICATED ON PLANS. PRICE; LBP-15A-750 OR APPROVED EQUAL.
- 4 LINEAR BAR GRILLE, 0-DEG DEFLECTION, 3/32" BARS ON 1/4" SPACING WITH 3/4" FLANGED FRAME. LENGTH AND HEIGHT INDICATED ON PLANS. PRICE; LBP-15A-750 OR APPROVED EQUAL.
- 5 PROVIDE CONTINUOUS ARCHITECTURAL SLOT GRILLE ALONG EDGE OF CEILING WITH 1-2" SLOT. FOR SUPPLY SECTIONS PROVIDE ANGULAR PATTERN AND SUPPLY PLENUM WITH FOAM INSULATION (CFP). FOR RETURN SECTIONS PROVIDE FULLY OPEN SLOT AND RETURN AIR SIGHT BAFFLE. WHERE TERMINATING AT A WALL PROVIDE FLUSH END, OTHERWISE PROVIDE MITERED ENDS. PROVIDE EXPOSED FRAME (EF) WITH CONCEALED MOUNTING CLIP (MP-DR). PRICE; CFJS OR APPROVED EQUAL - SEE DETAIL DM503.
- 6 IN WALL DRYER VENT BOX
- 7 PROVIDE OPPOSED BLADE DAMPER AT GRILLE OR DIFFUSER, INTEGRAL WITH AIR DISTRIBUTION DEVICE AND OPERABLE FROM THE GRILLE OR DIFFUSER FACE.
- 8 GRADE GROUND LEVEL INSIDE UTILITY YARD AND TREAT SOIL WITH WEED KILLER. PROVIDE TWO LAYERS OF WEED CLOTH LAID WITH SEAMS AT 90 DEGREES TO ONE ANOTHER AND COVER WITH MINIMUM 3" THICK LAYER OF #57 GRAVEL FROM EDGE OF EQUIPMENT PADS TO YARD WALLS.
- 9 INTERNALLY LINED TRANSFER AIR DUCT ABOVE CEILING. TURN ELBOW UP AND LEAVE OPEN ONE EACH END OF DUCT.
- 10 PROVIDE AIR DEVICE WITH CABLE ACTUATED DAMPER, EQUIVALENT TO METROPOLITAN AIR TECHNOLOGIES MODEL RT-100. SET CABLE LENGTH AS REQUIRED TO TERMINATE AT AIR DEVICE FACE.
- 11 AIR COOLED CHILLER AND PRIMARY PUMP TO BE INSTALLED AS PART OF THIS PROJECT.
- 12 AIR COOLED CHILLER AND PRIMARY PUMP TO BE INSTALLED AS PART OF FUTURE EPICENTER PROJECT. PIPING UP TO ISOLATION VALVES AS INDICATED TO BE INSTALLED AS PART OF THIS PROJECT.
- 13 AIR COOLED CHILLER - SEE DETAIL AM501 & EM501
- 14 VERTICAL INLINE PRIMARY PUMP - SEE DETAIL BM501
- 15 PROVIDE ISOLATION BUTTERFLY VALVES ON SECONDARY SUPPLY AND RETURN LINES TO DISTRICT OFFICE BUILDING AND TO FUTURE EPICENTER BUILDING.
- 16 BASE MOUNTED END SUCTION SECONDARY PUMP - SEE DETAIL CM501



1 BOARDROOM 1-1010
3/32" = 1'-0"



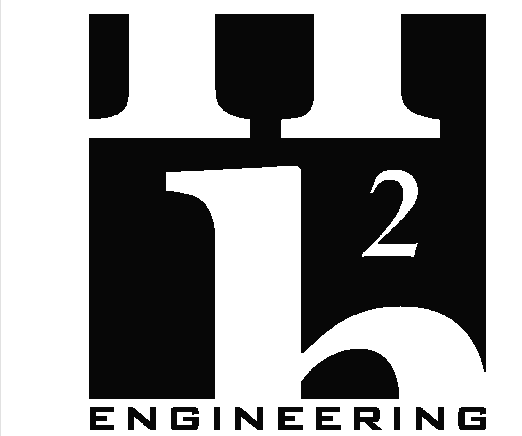
SECOND FLOOR PLAN - SOUTH
3/32" = 1'-0"
NORTH



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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NOTE:
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PROJECT NO 68100	CHECKED BY JLT

SHEET TITLE

**SECOND FLOOR PLAN
SOUTH**

SHEET NO M102-S	REV NO
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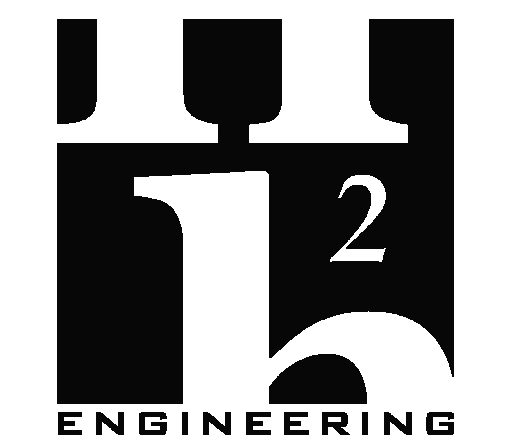
SEE SHEET M201
FOR KEYNOTE REFERENCES



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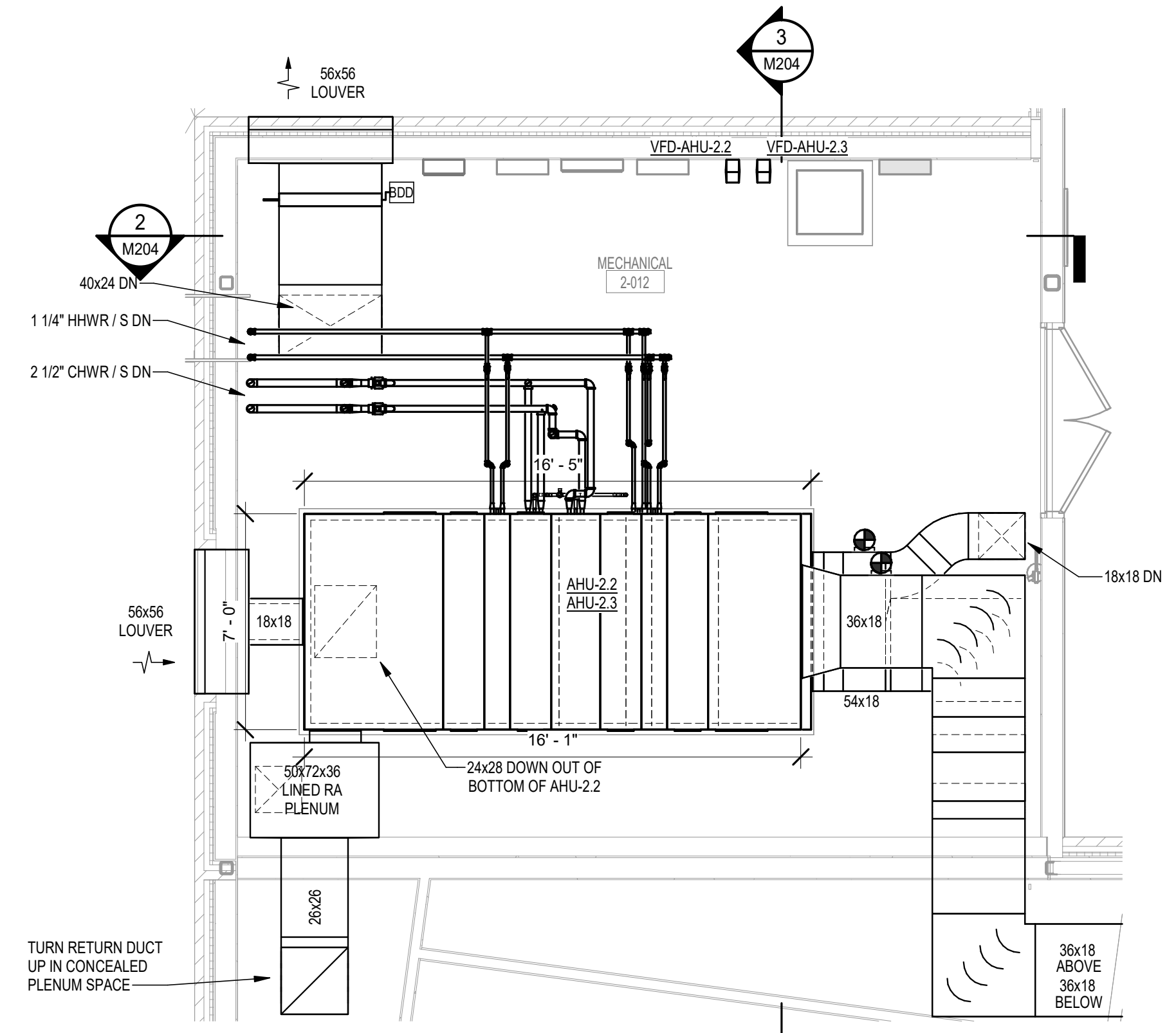
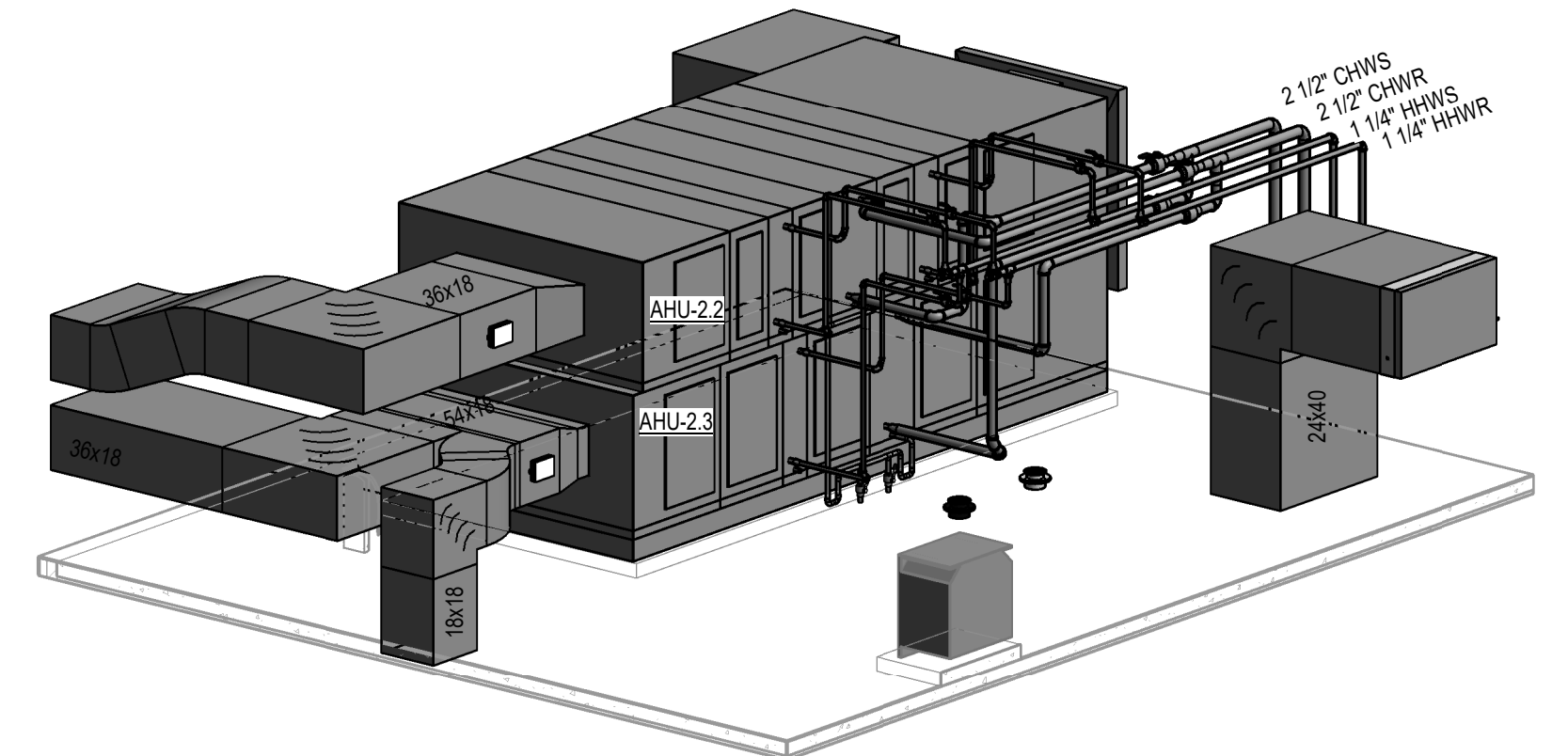
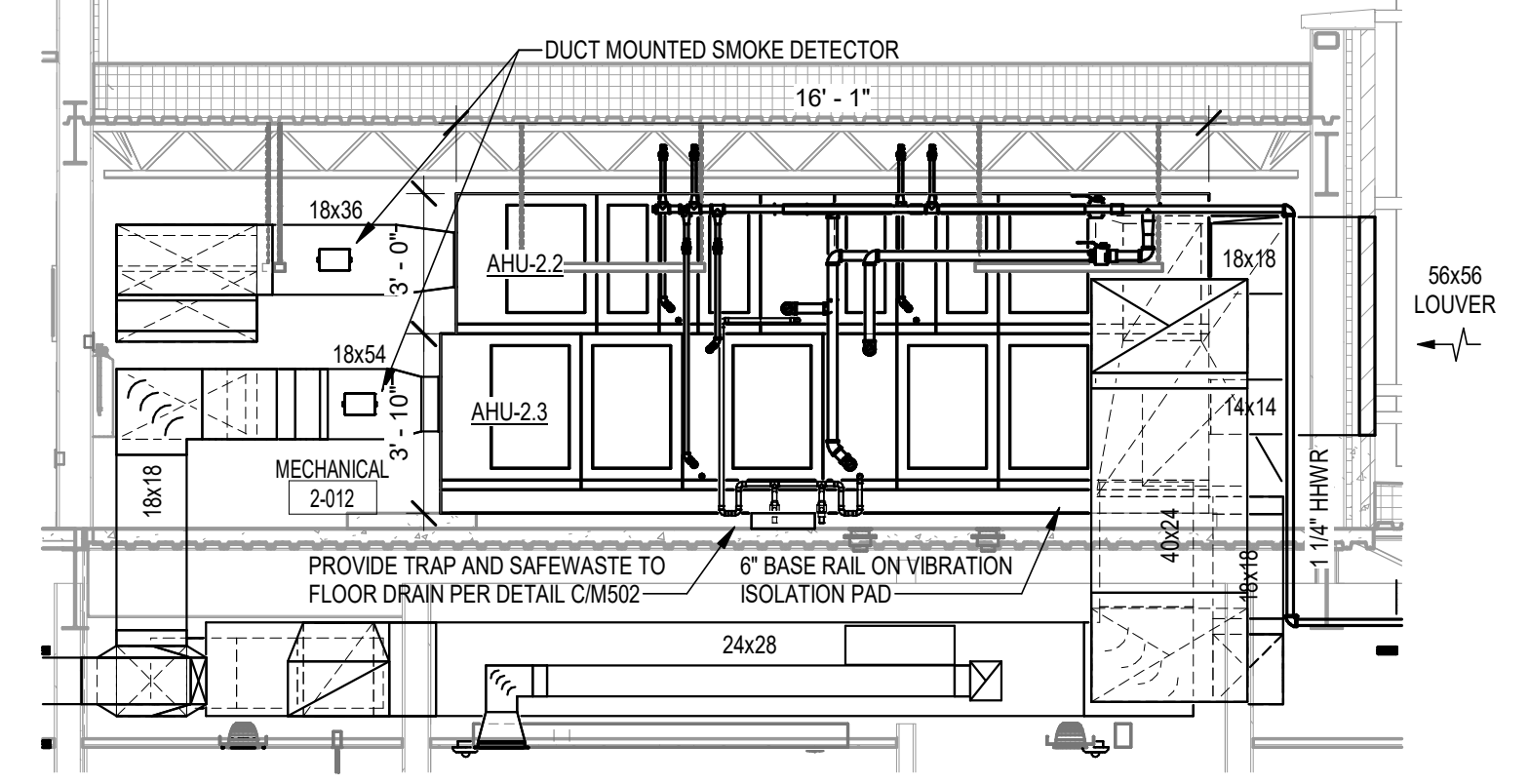
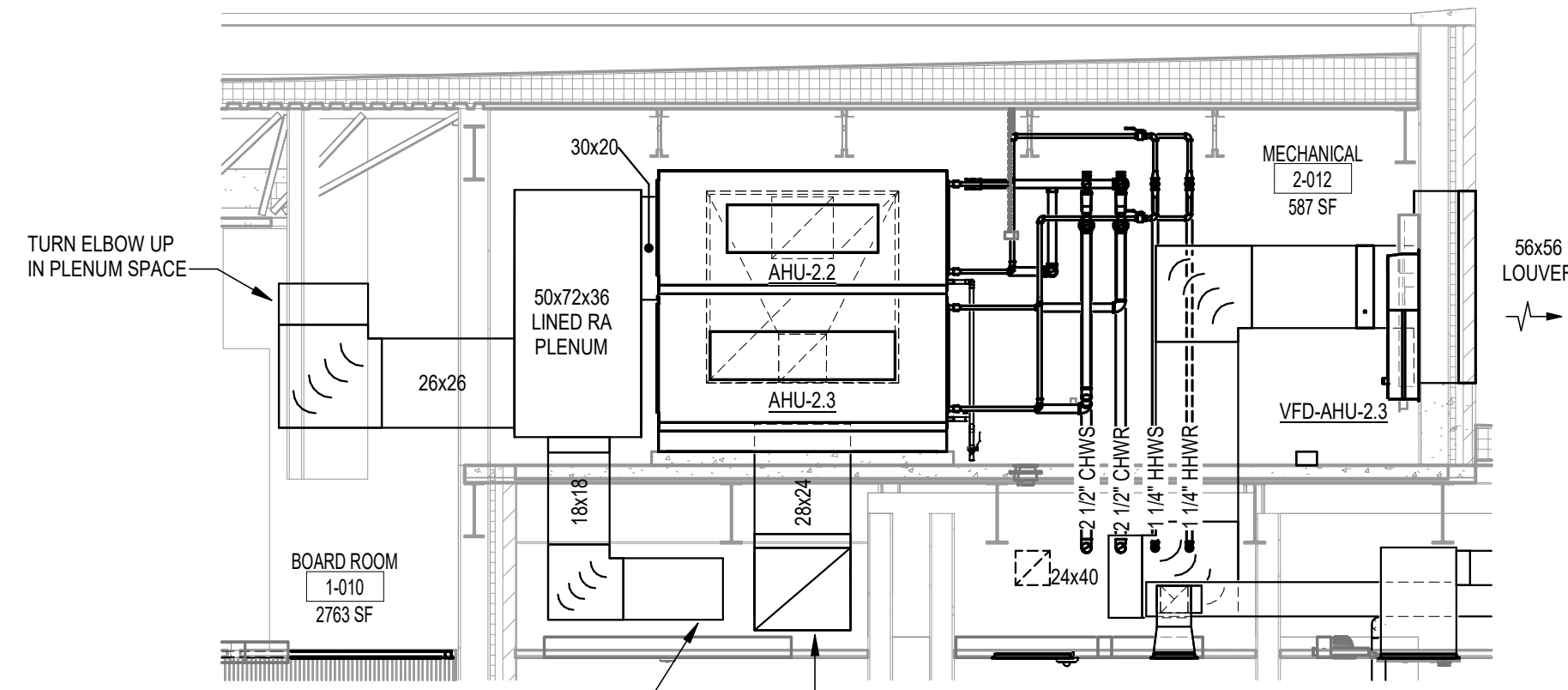
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JLT

SHEET TITLE

ENLARGED PLANS
MECHANICAL RM 2-012

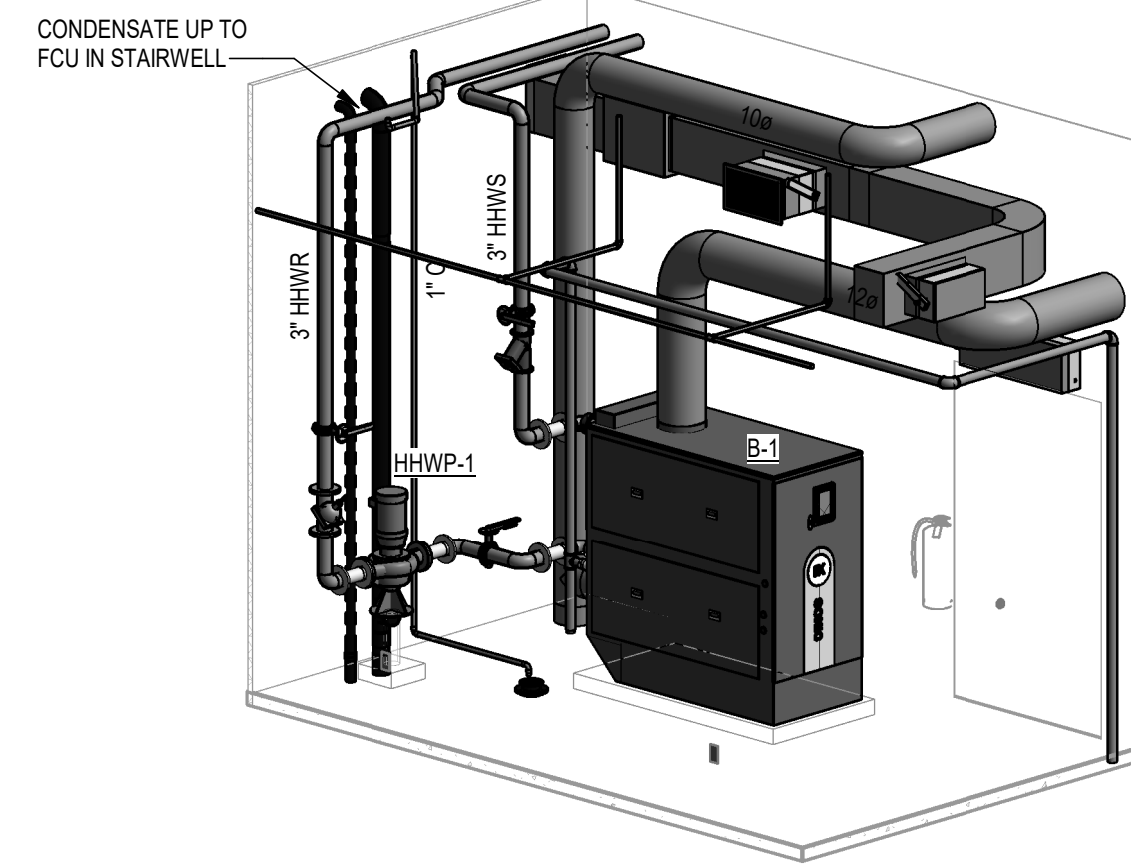
SHEET NO
M204

REV NO

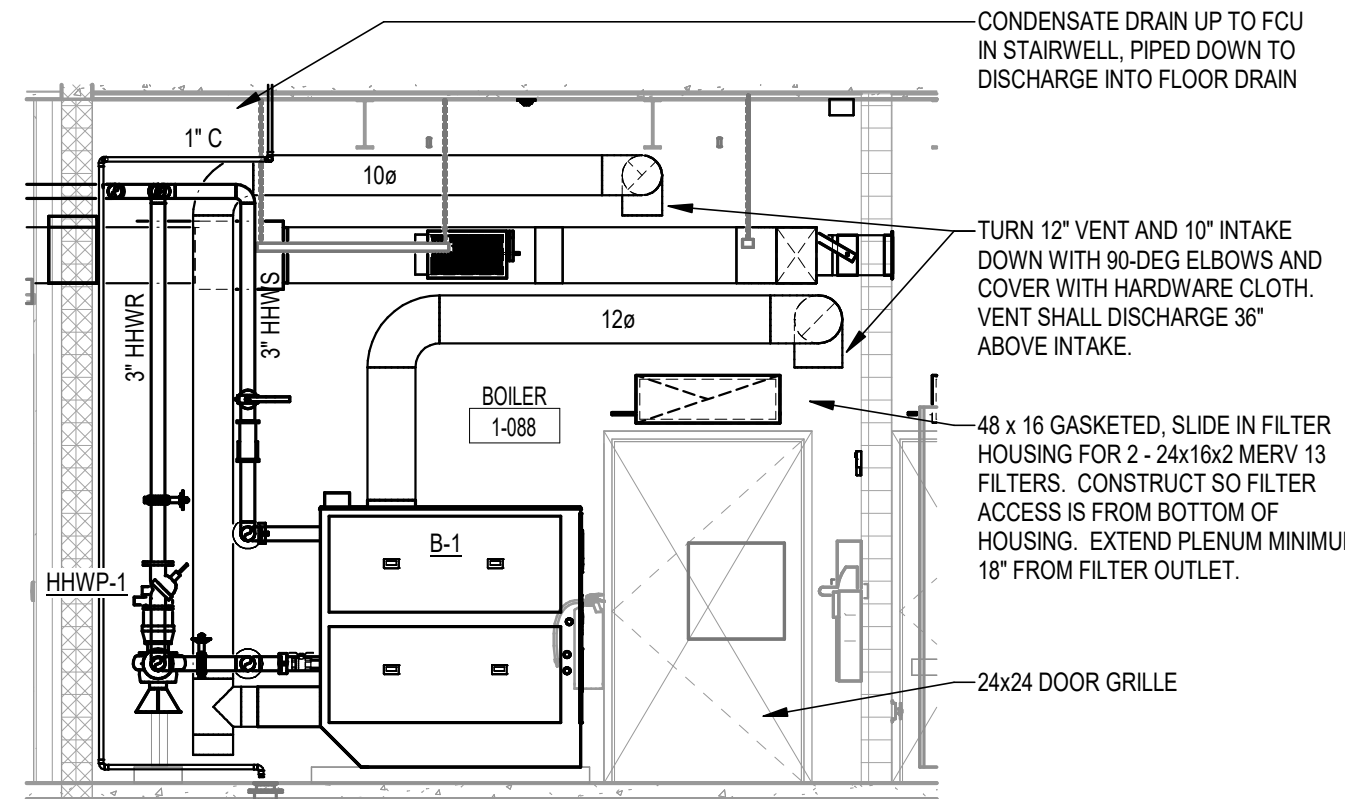


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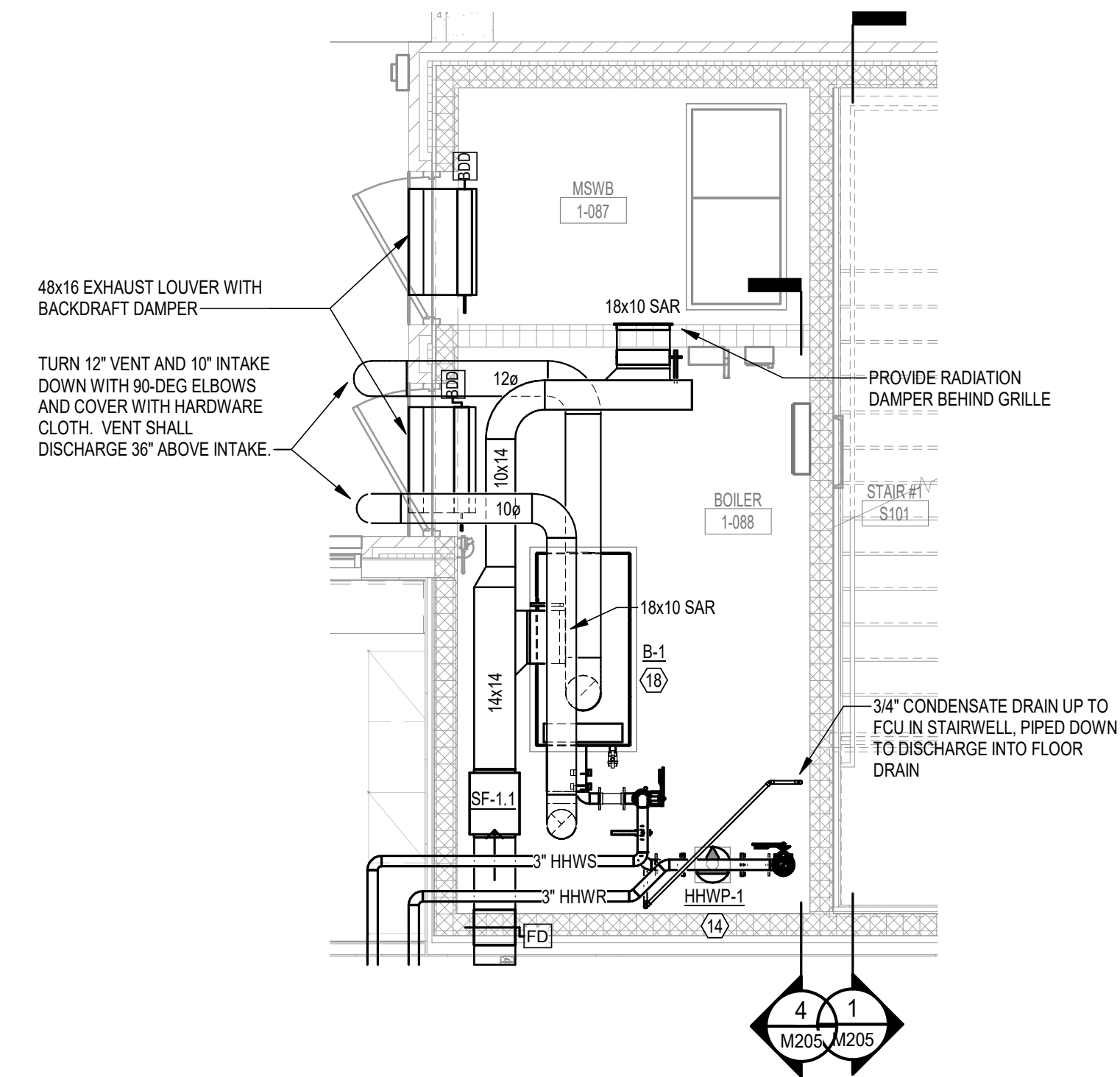


3 PIPING ISOMETRIC- BOILER RM 1-088

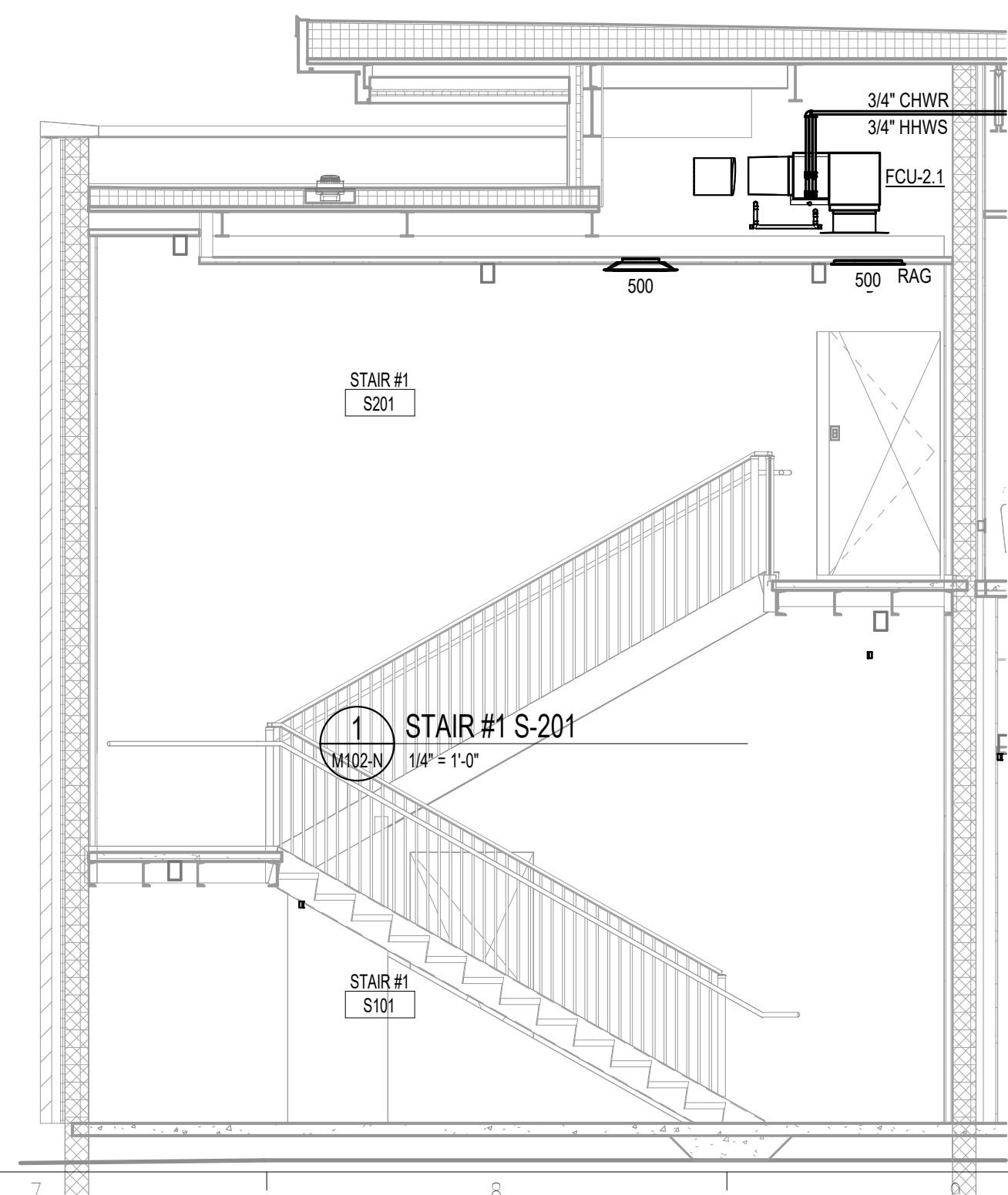


4 MECHANICAL RM 1-088
M205 1/4" = 1'-0"

SEE SHEET M201 FOR KEYNOTE REFERENCES



2 ENLARGED PLAN - BOILER RM 1-088
M101-N 1/4" = 1'-0"



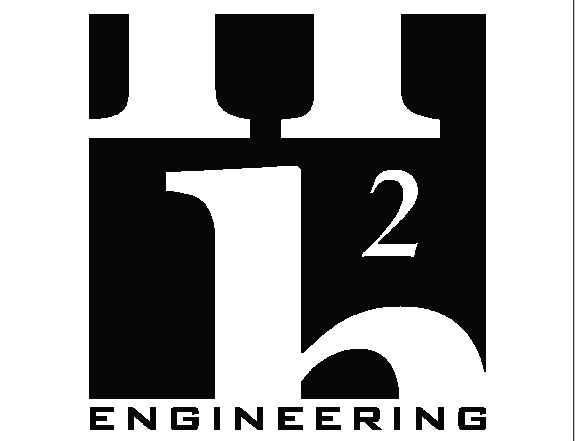
1 STAIR #1 S-201
M102-N 1/4" = 1'-0"



ARCHITECTURE
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GRAPHICS

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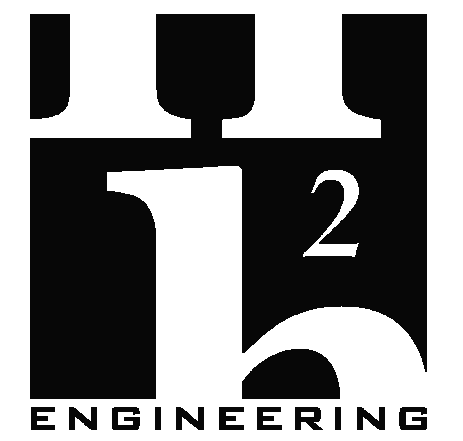
PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 15 JANUARY 2025	DRAWN BY JDR
PROJECT NO 68100	CHECKED BY JLT

SHEET TITLE
ENLARGED PLANS

SHEET NO M205	REV NO
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CONSTRUCTION DOCUMENTS

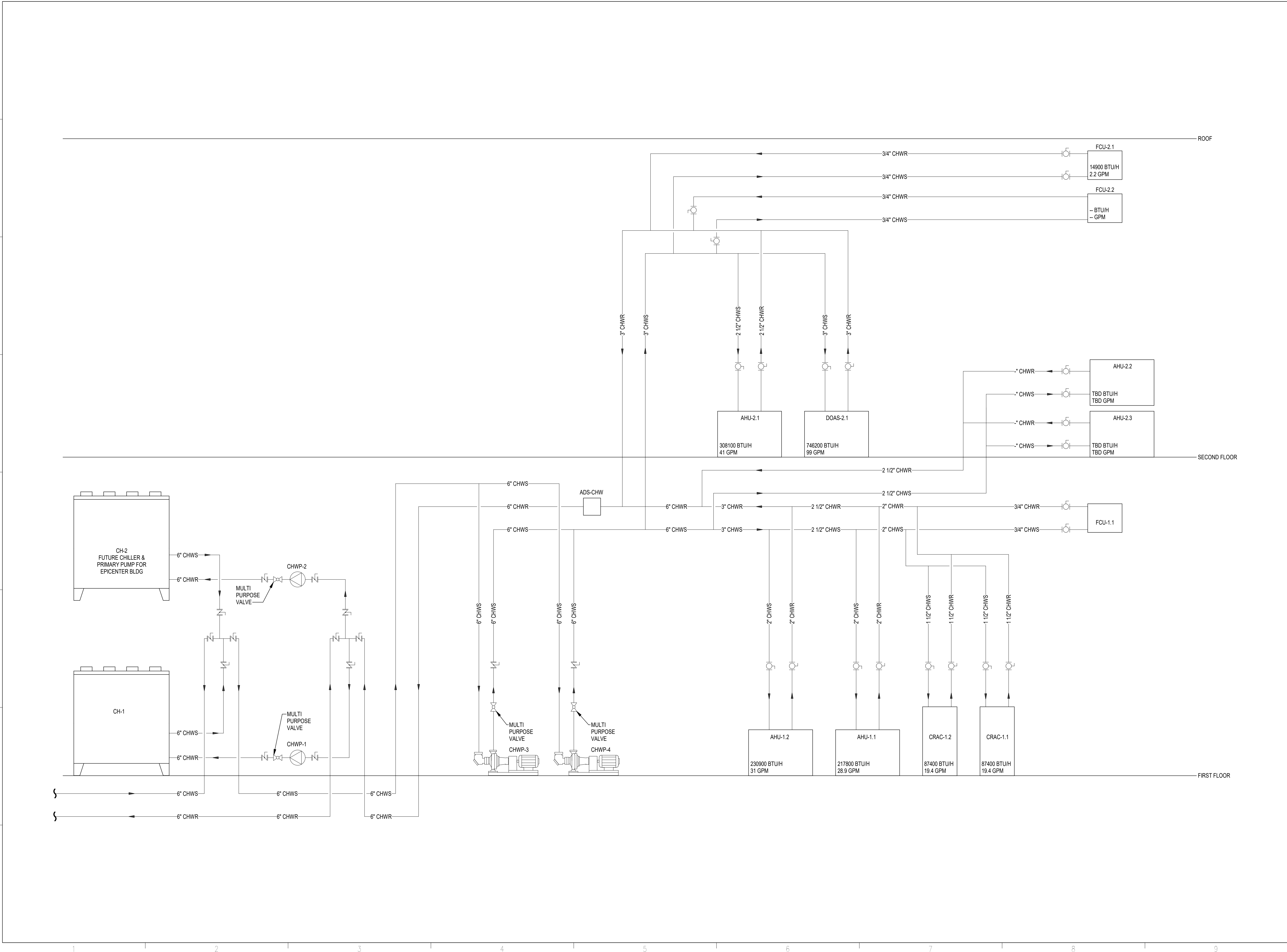
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SHEET TITLE

CHW PIPING SCHEMATIC

SHEET NO M301	REV NO
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SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT																		
DESIGNATION (SAT-)		SAT-1.1.1	SAT-1.1.2	SAT-1.1.3	SAT-1.1.4	SAT-1.1.5	SAT-1.1.6	SAT-1.1.7	SAT-1.1.8	SAT-1.1.9	SAT-1.1.10	SAT-1.1.11	SAT-1.1.12	SAT-1.1.13	SAT-1.1.14	SAT-1.1.15	SAT-1.1.16	
AIR VALVE																		
NOMINAL DIAMETER	IN.	8	8	8	8	10	6	8	8	8	6	8	8	8	14	8	8	
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.40		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
AIR FLOW RATES																		
MAXIMUM COOLING	CFM	600	420	580	450	1,170	200	770	520	680	340	450	610	440	1,710	640	720	
MINIMUM COOLING	CFM	180	150	180	150	360	200	240	160	210	110	150	190	150	600	200	220	
MAXIMUM HEATING	CFM	210	175	210	180	400	N/A	280	185	250	140	175	220	300	750	230	250	
MINIMUM HEATING	CFM	180	150	180	150	360	N/A	240	160	210	110	150	190	150	600	200	220	
HEATING COIL DATA - HYDRONIC																		
HEATING CAPACITY	MBTUH	8.1	6.7	8.1	6.9	15.4		10.8	7.1	9.6	5.4	6.7	8.5	11.6	28.9	8.9	9.6	
AIR ENTERING HEATING COIL	*F	55	55	55	55	55		55	55	55	55	55	55	55	55	55	55	
AIR LEAVING HEATING COIL	*F	90	90	90	90	90		90	90	90	90	90	90	90	90	90	90	
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160		180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	
WATER FLOW	GPM	0.8	0.7	0.8	0.7	1.5		1.1	0.7	1	0.5	0.7	0.8	1.2	2.9	0.9	1	
RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4		3/4	3/4	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	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	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	NO	NO	NO	NO	NO	NO	NO	
MAX DISCHARGE SOUND RATING	NC	30	30	30	30	30		30	30	30	30	30	30	30	20	30	30	
MAX RADIATED SOUND RATING	NC	25	25	25	25	30		25	25	25	25	25	25	25	30	25	25	
NOTES:																		
1		BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT																

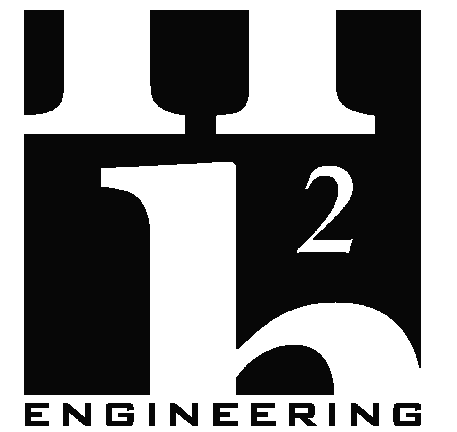
SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT																		
DESIGNATION (SAT-)		SAT-1.2.1	SAT-1.2.2	SAT-1.2.3	SAT-1.2.4	SAT-1.2.5	SAT-1.2.6	SAT-1.2.7	SAT-1.2.8	SAT-1.2.9	SAT-1.2.10	SAT-1.2.11	SAT-1.2.12	SAT-1.2.13	SAT-1.2.14	SAT-1.2.15		
AIR VALVE																		
NOMINAL DIAMETER	IN.	6	8	8	8	14	8	10	10	6	8	10	8	6	8	8		
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.40	0.40	0.25	0.25	0.40	0.25	0.25	0.25	0.25		
AIR FLOW RATES																		
MAXIMUM COOLING	CFM	390	690	500	530	1,880	450	830	980	200	610	850	520	350	590	600		
MINIMUM COOLING	CFM	120	210	150	160	600	150	250	300	80	190	260	160	110	180	180		
MAXIMUM HEATING	CFM	150	230	180	190	660	180	320	350	110	230	325	200	110	220	210		
MINIMUM HEATING	CFM	120	210	150	160	600	150	250	300	80	190	260	160	110	180	180		
HEATING COIL DATA - HYDRONIC																		
HEATING CAPACITY	MBTUH	5.8	8.9	6.9	7.3	25.4	6.9	12.3	13.5	4.2	8.9	12.5	7.7	4.2	8.5	8.1		
AIR ENTERING HEATING COIL	*F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
AIR LEAVING HEATING COIL	*F	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160		
WATER FLOW	GPM	0.6	0.9	0.7	0.7	2.5	0.7	1.2	1.3	0.5	0.9	1.3	0.8	0.5	0.8	0.8		
RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	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	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	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	NO	NO	NO	NO	NO	NO	NO		
MAX DISCHARGE SOUND RATING	NC	30	30	30	30	20	30	30	30	30	30	30	30	30	30	30		
MAX RADIATED SOUND RATING	NC	25	25	25	25	30	25	30	30	25	25	30	25	25	25	25		
NOTES:																		
1		BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT																



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PROJECT PHASE
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PROJECT NO 68100	CHECKED BY JLT

SHEET TITLE
SCHEDULES

SHEET NO M403	REV NO
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SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT		SAT-2.1.1	SAT-2.1.2	SAT-2.1.3	SAT-2.1.4	SAT-2.1.5	SAT-2.1.6	SAT-2.1.7	SAT-2.1.8	SAT-2.1.9	SAT-2.1.10	SAT-2.1.11	SAT-2.1.12	SAT-2.1.13	SAT-2.1.14	SAT-2.1.15	SAT-2.1.16	SAT-2.1.17	SAT-2.1.18	
DESIGNATION (SAT-)																				
AIR VALVE																				
NOMINAL DIAMETER	IN.	8	10	10	8	10	6	10	8	10	8	8	10	10	8	10	10	8	6	
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.40	0.40	0.25	0.40	0.25	0.40	0.25	0.40	0.25	0.25	0.40	0.40	0.25	0.40	0.40	0.25	0.15	
AIR FLOW RATES																				
MAXIMUM COOLING	CFM	480	1,300	1,080	420	1,120	400	840	670	840	450	480	1,030	1,080	450	850	1,050	560	300	
MINIMUM COOLING	CFM	150	390	330	150	340	120	260	210	240	150	150	310	330	150	260	320	170	90	
MAXIMUM HEATING	CFM	175	420	425	175	380	160	300	230	330	180	180	355	420	180	310	380	195		
MINIMUM HEATING	CFM	150	390	330	150	340	120	260	210	240	150	150	310	330	150	260	320	170		
HEATING COIL DATA - HYDRONIC																				
HEATING CAPACITY	MBTUH	6.7	16.2	16.4	6.7	14.6	6.2	11.6	8.9	12.7	6.9	6.9	13.7	16.2	6.9	11.9	14.6	7.5		
AIR ENTERING HEATING COIL	*F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
AIR LEAVING HEATING COIL	*F	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160	180 - 160		
WATER FLOW	GPM	0.7	1.6	1.6	0.7	1.5	0.6	1.2	0.9	1.3	0.7	0.7	1.4	1.6	0.7	1.2	1.5	0.8		
RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	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	1	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	2-WAY	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	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
MAX DISCHARGE SOUND RATING	NC	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
MAX RADIATED SOUND RATING	NC	25	30	30	25	30	25	30	25	30	25	25	30	30	25	30	30	25	25	
NOTES:																				
1	BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT																			

FANS		EF-1.1	EF-1.2	SF-1.1	EF-2.1
DESIGNATION					
SERVICE		CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST
MOUNTING METHOD		ROOF	ROOF	SUSPENDED	CEILING
FAN TYPE		CENTRIFUGAL UPBLAST	CENTRIFUGAL UPBLAST	CENTRIFUGAL SQUARE IN-LINE	CENTRIFUGAL CABINET
AIR FLOW	CFM	1,200	1,500	1,200	120
STATIC PRESSURE	IN.	0.50	0.45	0.35	0.25
AIRSTREAM TEMPERATURE	DEG F	70	70	70	70
FAN SPEED	RPM	1,725	1,140	1,725	1,100
FAN DRIVE		DIRECT	DIRECT	DIRECT	DIRECT
MOTOR SPEED	RPM	1,725	1,140	1,725	1,100
MOTOR POWER	HP or W	1/3 HP	1/3 HP	1/4 HP	22 W
MOTOR BRAKE HORSEPOWER	BHP	0.28	0.28	0.24	0.01
ELECTRONICALLY COMMUTATED MOTOR		NO	NO	NO	NO
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	120 / 1	277 / 1	120 / 1
WEIGHT	LBS.	78	95	35	17
NOISE LEVEL (RADIATED)	SONES or LwA	11.8 SONES	10.3 SONES	7.6 SONES	0.4 SONES
STANDARD NOTES		1, 2, 3, 4, 7, 9	1, 2, 3, 4, 7, 9	1, 2, 4, 10, 14, 15, 16, 17, 18	1, 2, 4, 11, 20, 21
SPECIAL NOTES		19	19	19	20
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER		CUE-100-A	CUE-140-B	SQ-100	SP-A125
DETAIL REFERENCE		HM504	HM504	GM504	
NOTES:					
1	PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED.				
2	PROVIDE SOLID STATE SPEED CONTROLLER, FACTORY MOUNTED.				
3	PROVIDE BIRD SCREEN.				
4	PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.				
7	PROVIDE PRE-FABRICATED INSULATED ROOF CURB, 12-INCH HIGH WITH DAMPER TRAY, SLOPED TO MATCH ROOF SLOPE.				
9	PROVIDE TIE-DOWN EYELETS.				
10	PROVIDE SPRING ISOLATORS.				
11	PROVIDE RUBBER-IN-SHEAR ISOLATORS.				
12	PROVIDE WALL COLLAR.				
13	PROVIDE VIBRATION ISOLATION RAILS WITH HOUSED SPRINGS.				
14	PROVIDE INSULATED HOUSING.				
15	PROVIDE SIDE DISCHARGE ARRANGEMENT (WHERE INDICATED ON PLANS).				
16	PROVIDE INLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).				
17	PROVIDE OUTLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).				
18	PROVIDE WIRE GUARD (WHERE NOT CONNECTED TO DUCTWORK).				
19	FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.				
20	FAN SHALL INTERLOCK WITH LIGHT SWITCH.				
21	PROVIDE FAN WITH WHITE ALUMINUM GRILL FACE.				

LOUVERED PENTHOUSE VENTILATOR SCHEDULE		LPV-1
DESIGNATION		
SERVICE		INTAKE
AIRFLOW		CFM 7,800
THROAT SIZE		IN. x IN. 48 x 48
HEIGHT		IN. 23
WEIGHT		LBS. 213
MANUFACTURER		LOREN COOK
MODEL NUMBER		TRE 48x48x6
DETAIL REFERENCE		
NOTES:		
1	PROVIDE PREFABRICATED ROOF CURB WITH WELDED CAP CORNERS AND DAMPER TRAY.	
2	PROVIDE BACKDRAFT DAMPER (ONLY FOR RELIEF SERVICE)	
3	PROVIDE ALUMINUM BIRD SCREEN.	
4	PROVIDE MIAMI-DADE COMPLIANT.	

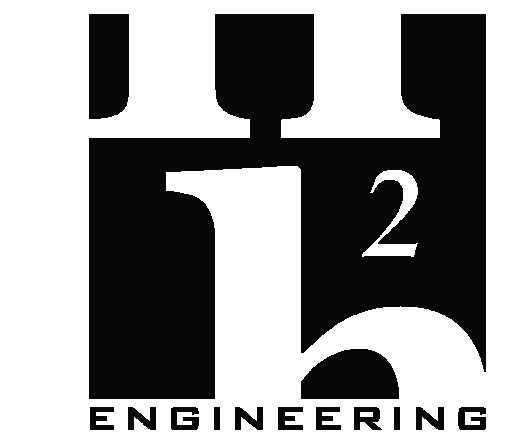
FAN COIL UNIT		FCU-1.1	FCU-2.1	FCU-2.2	
DESIGNATION					
AIR FLOW RATES	TOTAL SUPPLY AIR	CFM	500	500	500
COOLING COIL DATA					
TOTAL COOLING CAPACITY	MBTUH	14.9	14.9	14.9	
SENSIBLE COOLING CAPACITY	MBTUH	12.0	12.0	12.0	
AIR ENTERING COOLING COIL	*Fdb - *Fwb	76.8 - 64.0	76.8 - 64.0	76.8 - 64.0	
AIR LEAVING COOLING COIL	*Fdb - *Fwb	54.5 - 54.0	54.5 - 54.0	54.5 - 54.0	
CHW ENTERING & LEAVING TEMPERATURE	*F - *F	44.5 - 58.0	44.5 - 58.0	44.5 - 58.0	
WATER FLOW	GPM	2.2	2.2	2.2	
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		13.8		
AIR ENTERING HEATING COIL	*F		60		
AIR LEAVING HEATING COIL	*F		85		
HHW ENTERING & LEAVING TEMPERATURE	*F - *F		180.0 - 160.0		
WATER FLOW	GPM		1.4		
RUNOUT PIPE SIZE	IN.		3/4		
CONTROL VALVE (TYPE)			3-WAY		
SUPPLY FAN DATA					
FAN TYPE		TANGENTIAL	TANGENTIAL	TANGENTIAL	
DRIVE TYPE		DIRECT	DIRECT	DIRECT	
FAN MOTOR HORSEPOWER	HP	1/4	1/4	1/4	
ELECTRICAL CHARACTERISTICS	V / PH	208 / 1	208 / 1	208 / 1	
UNIT DATA					
ORIENTATION		HORIZONTAL	HORIZONTAL	HORIZONTAL	
WEIGHT	LBS	62	62	62	
FILTER		1" THICK PLEATED	1" THICK PLEATED	1" THICK PLEATED	
MANUFACTURER		ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	
MODEL NUMBER		HPP-08	HPP-08	HPP-08	
NOTES:					
1	PROVIDE WALL MOUNTED THERMOSTAT. UNIT TO BE CONTROLLED ON/OFF BASED ON ROOM TEMPERATURE (SET POINT 75 DEG ADJ.)				
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	UNIT FCU-2.1 SHALL BE MOUNTED ABOVE CEILING WITH CEILING ACCESS PANEL. BOTTOM RETURN AND TELESCOPING RETURN CONNECTION.				
4	UNIT FCU-1.1 AND FCU-2.2 SHALL BE HORIZONTALLY MOUNTED WITH A REAR RETURN.				



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NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS.



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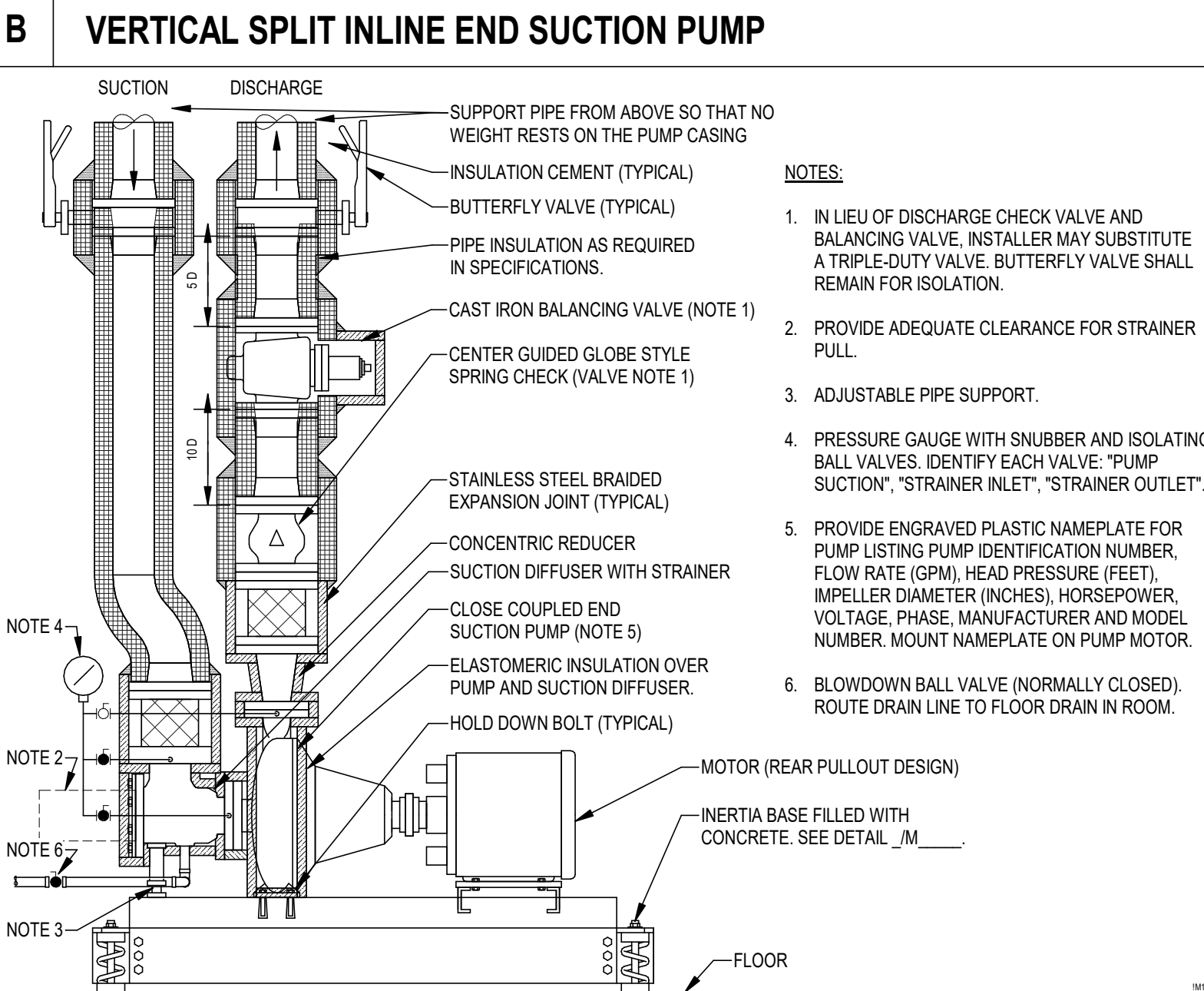
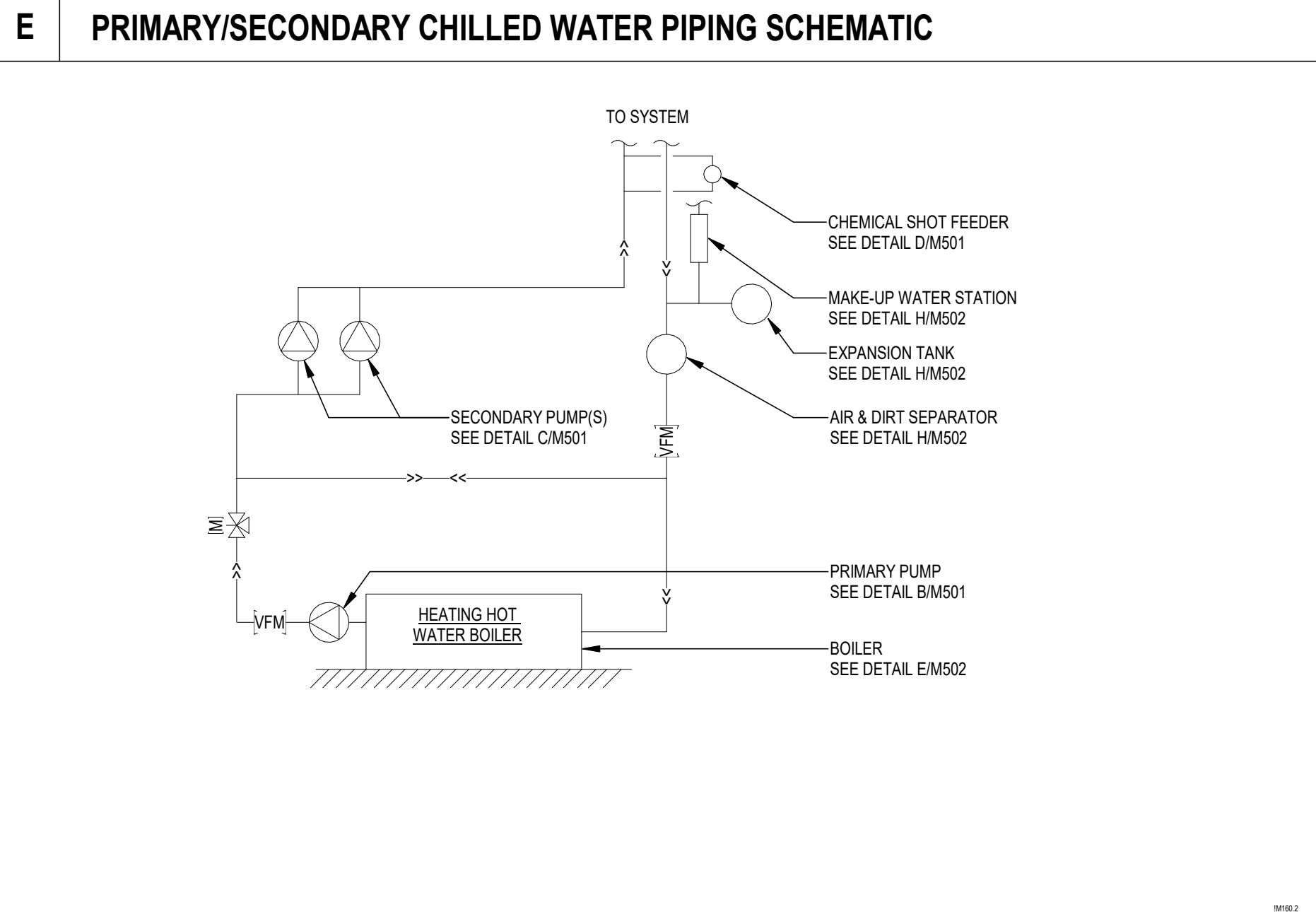
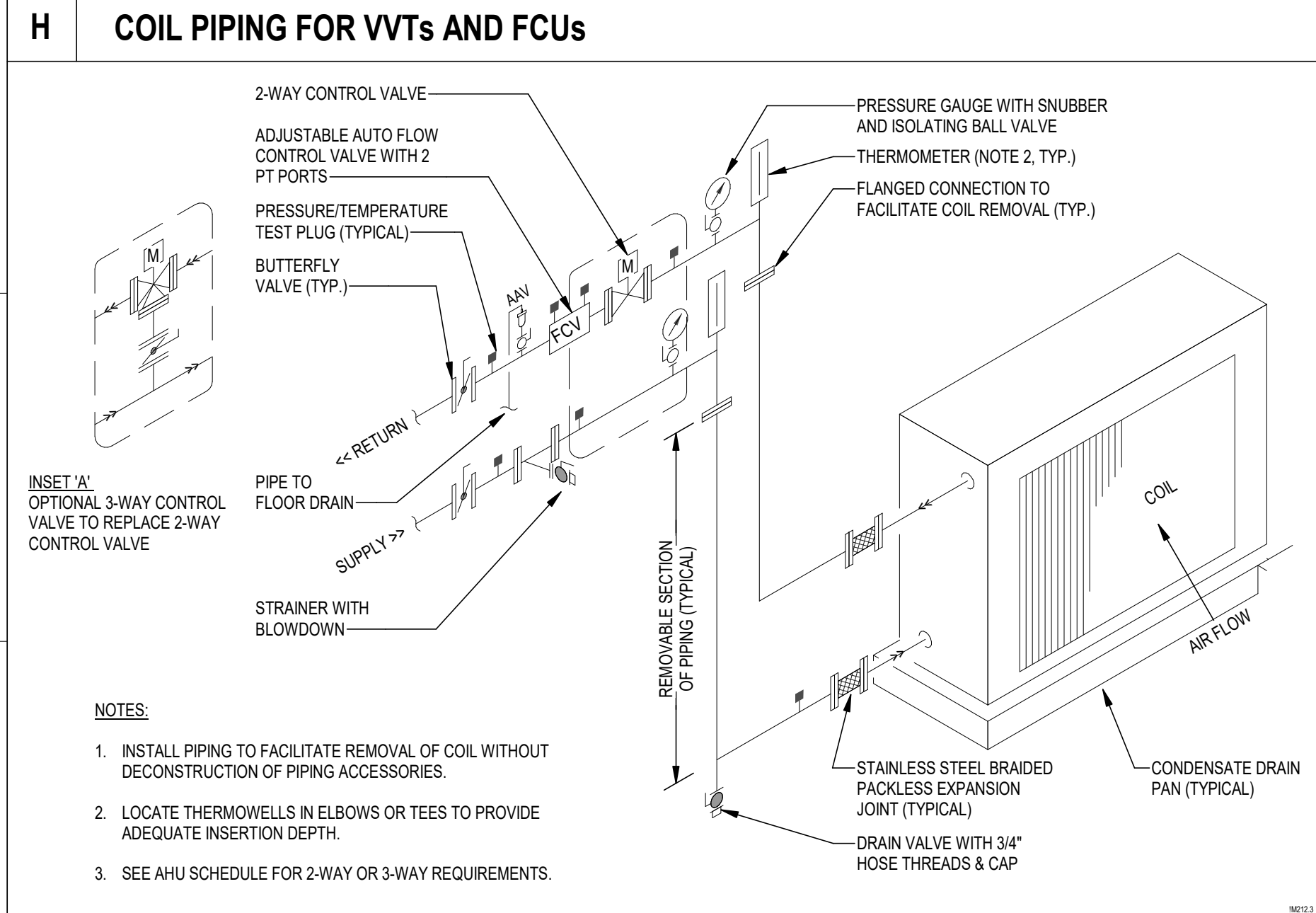
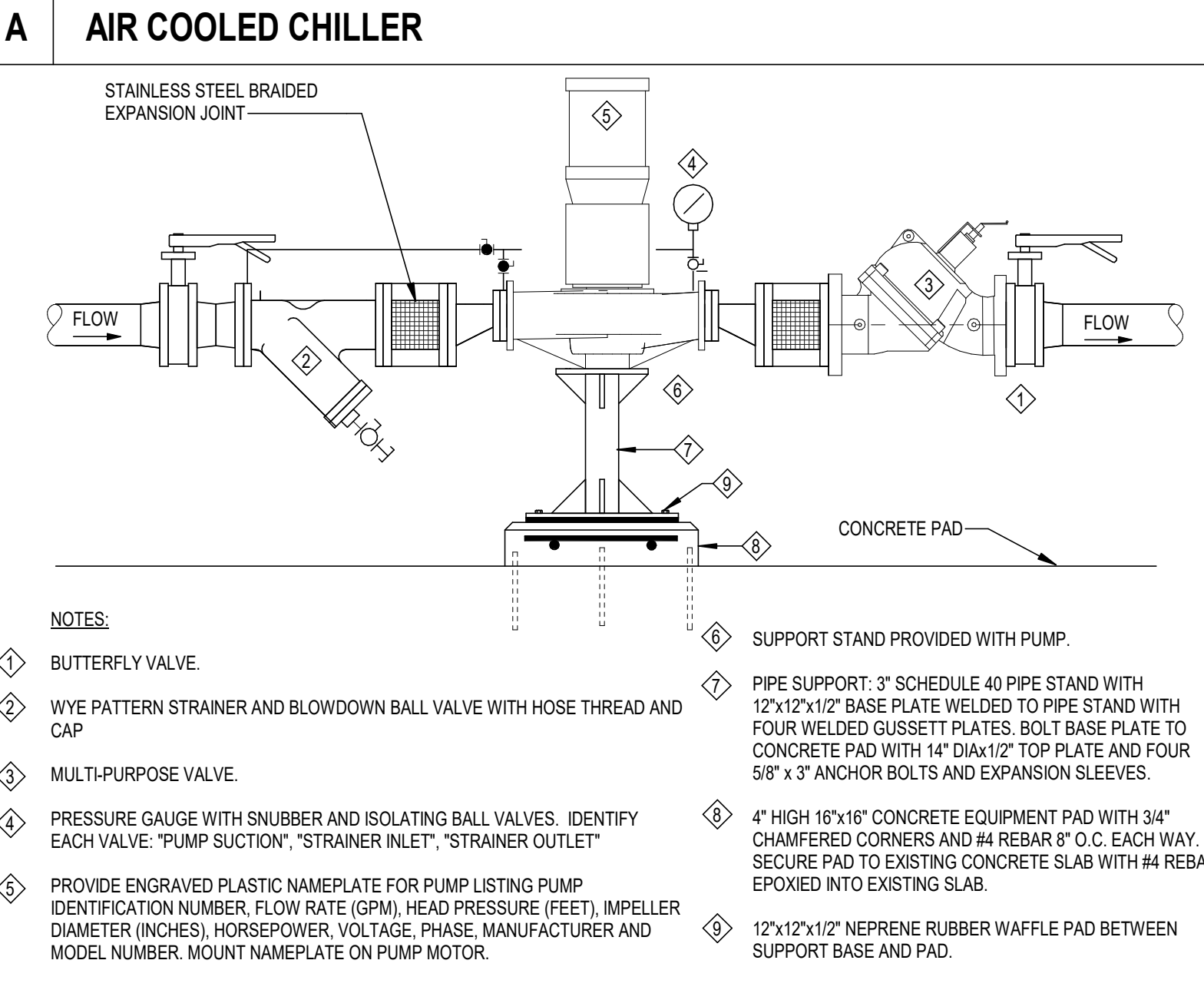
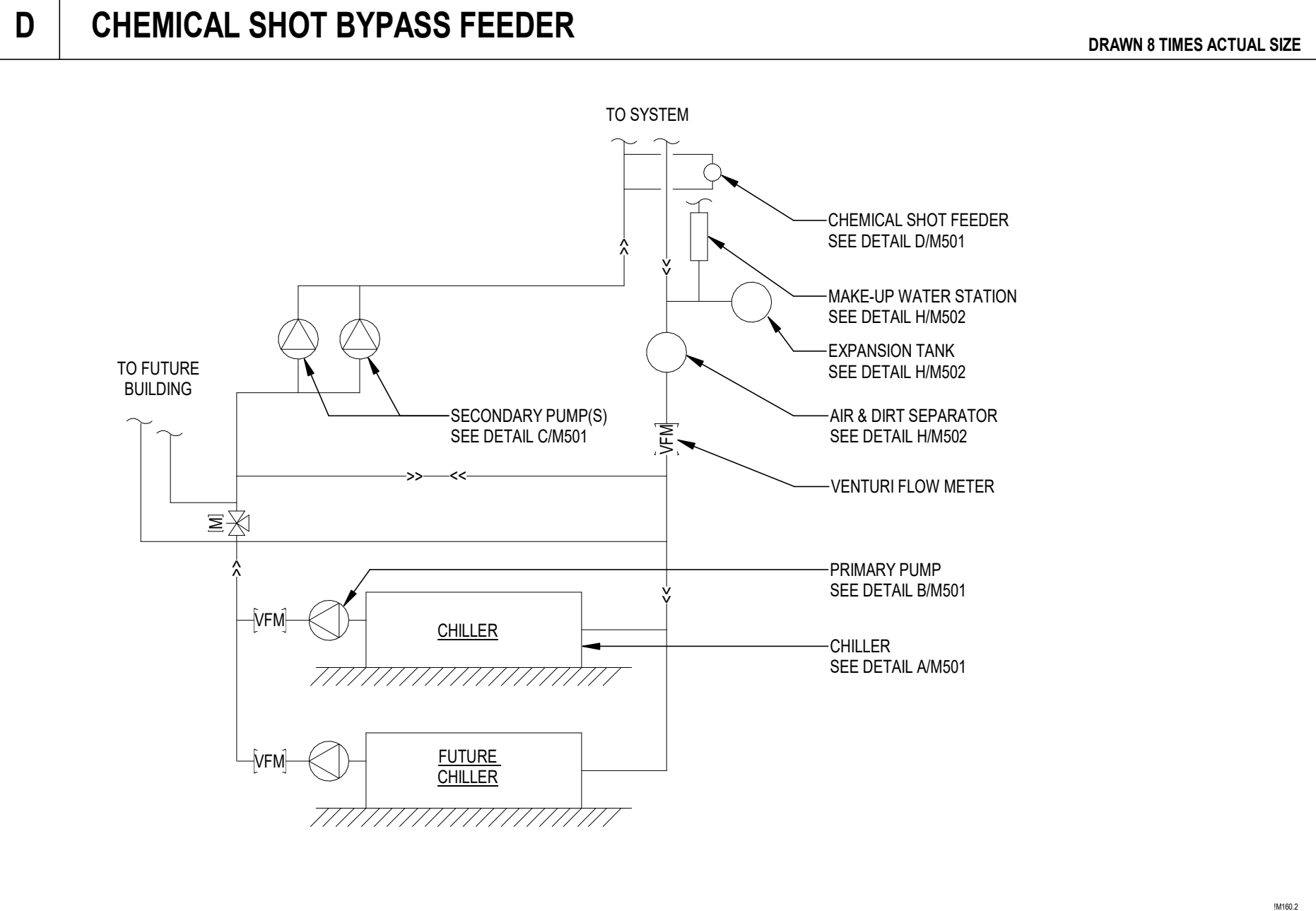
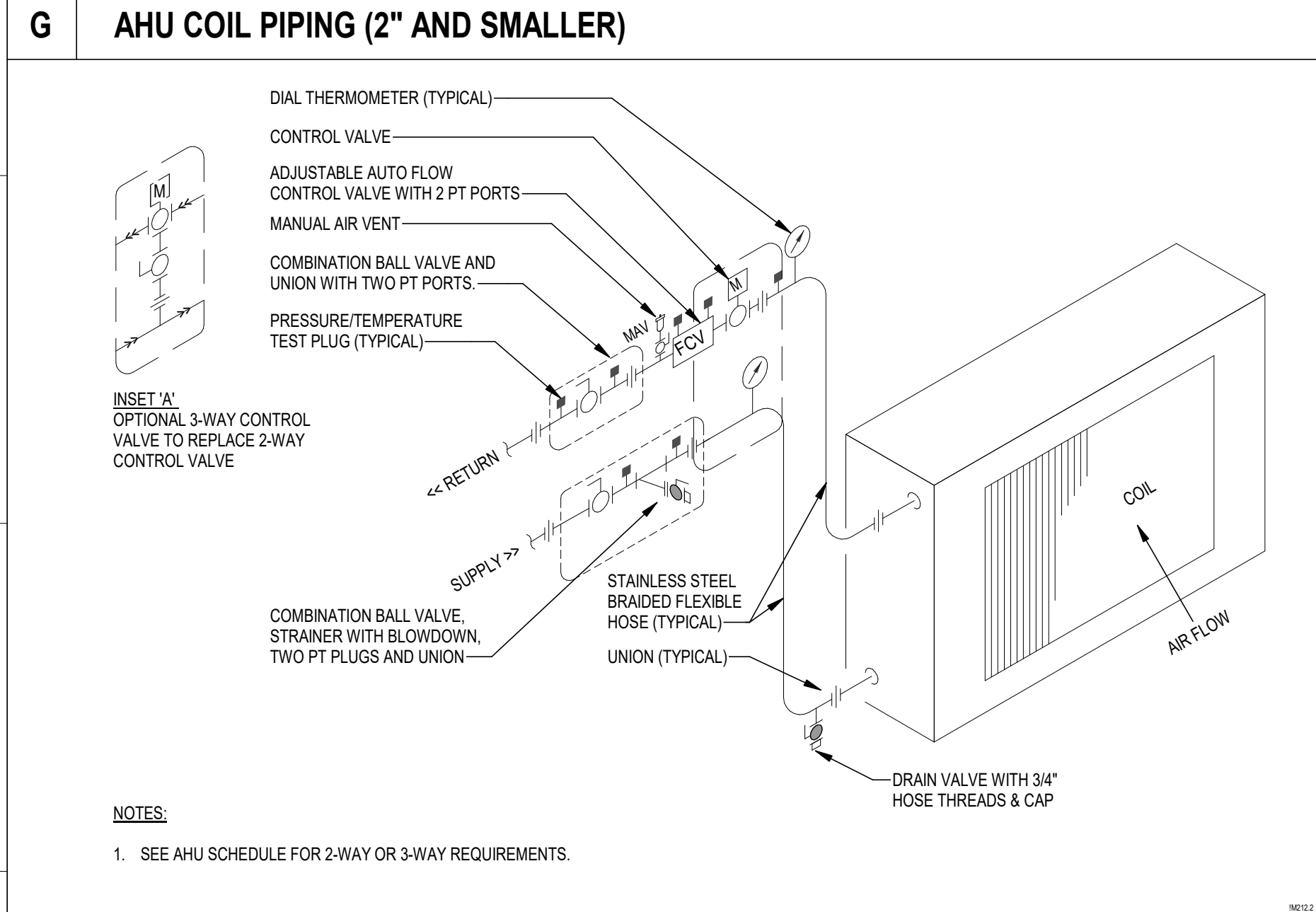
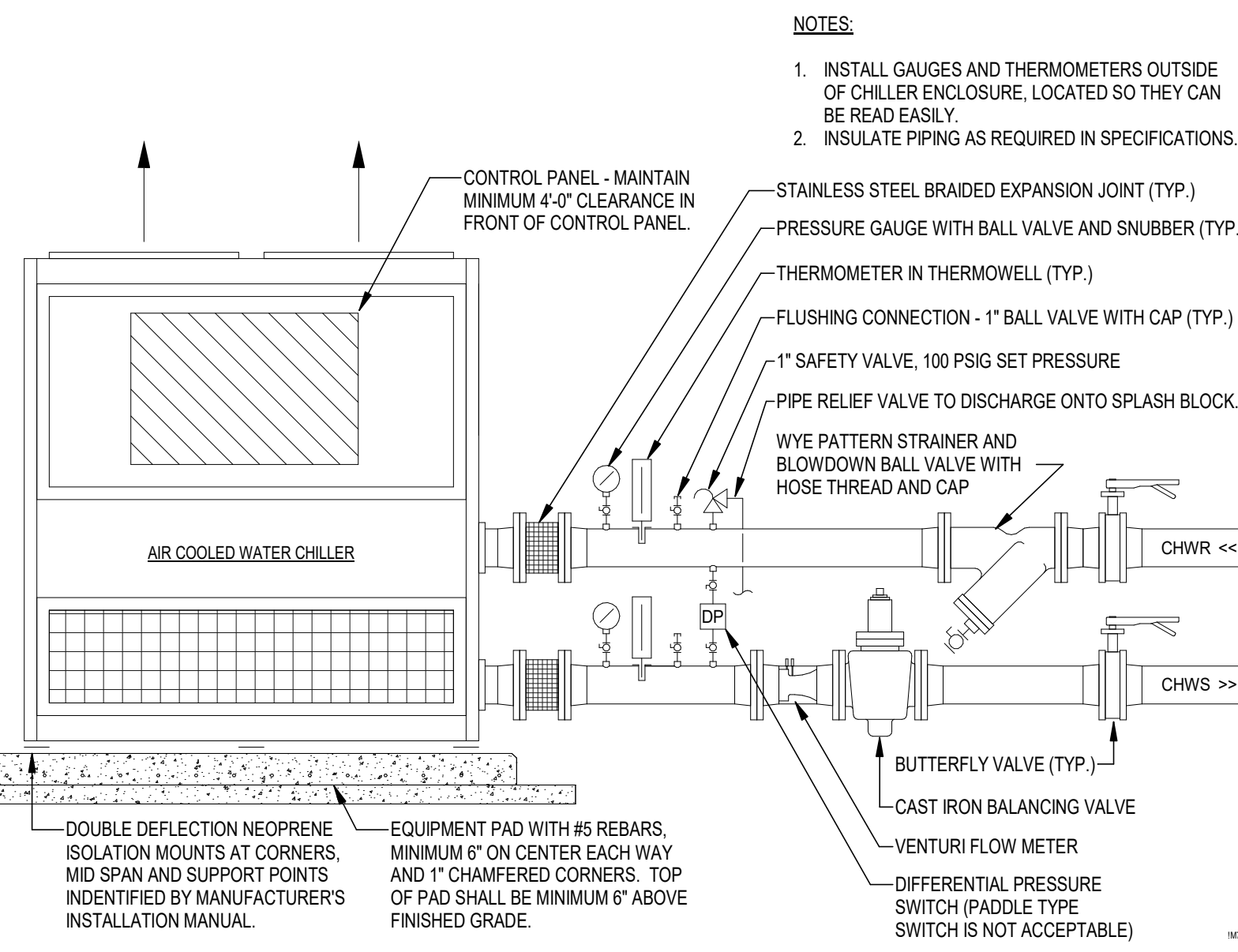
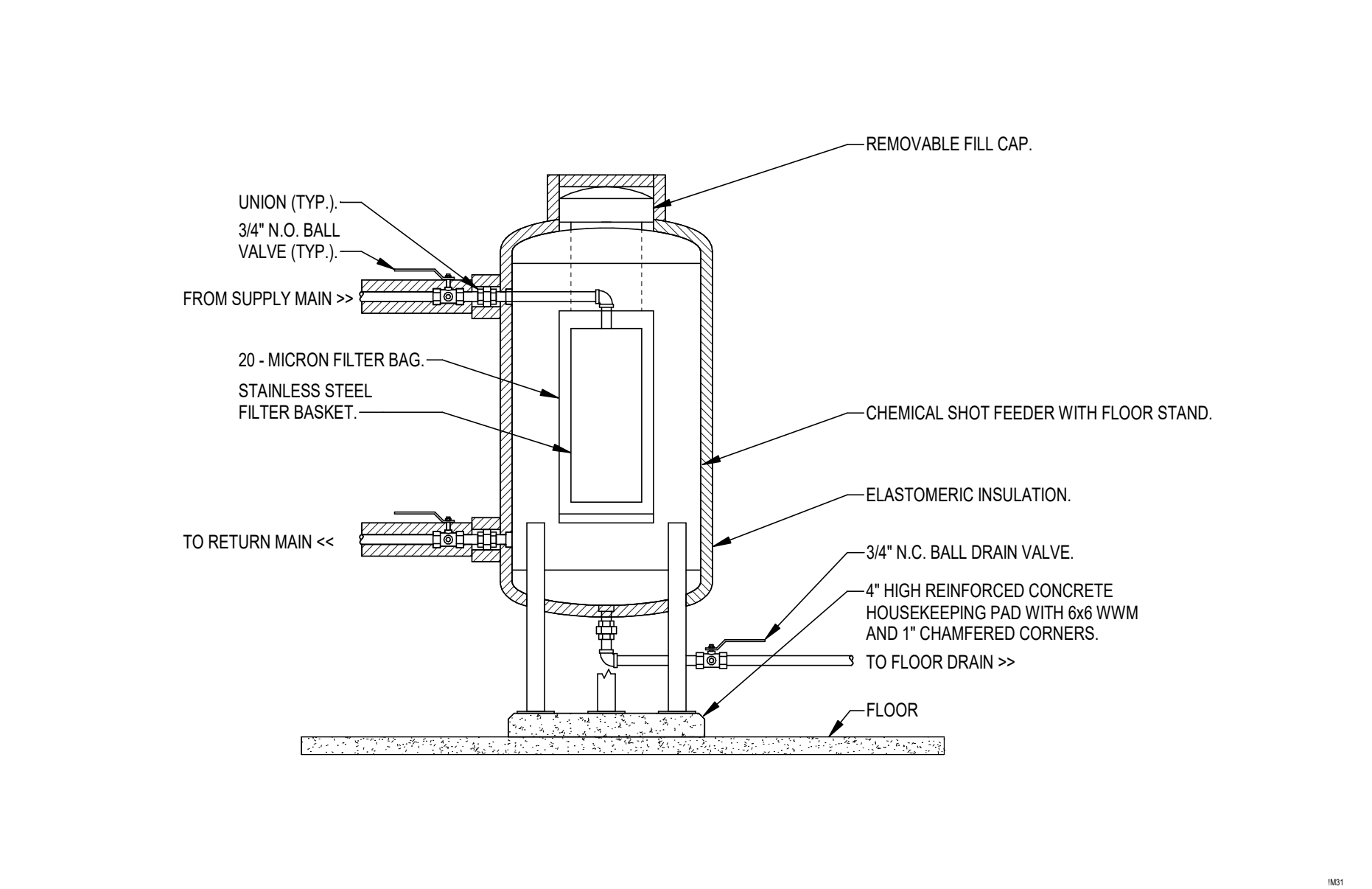
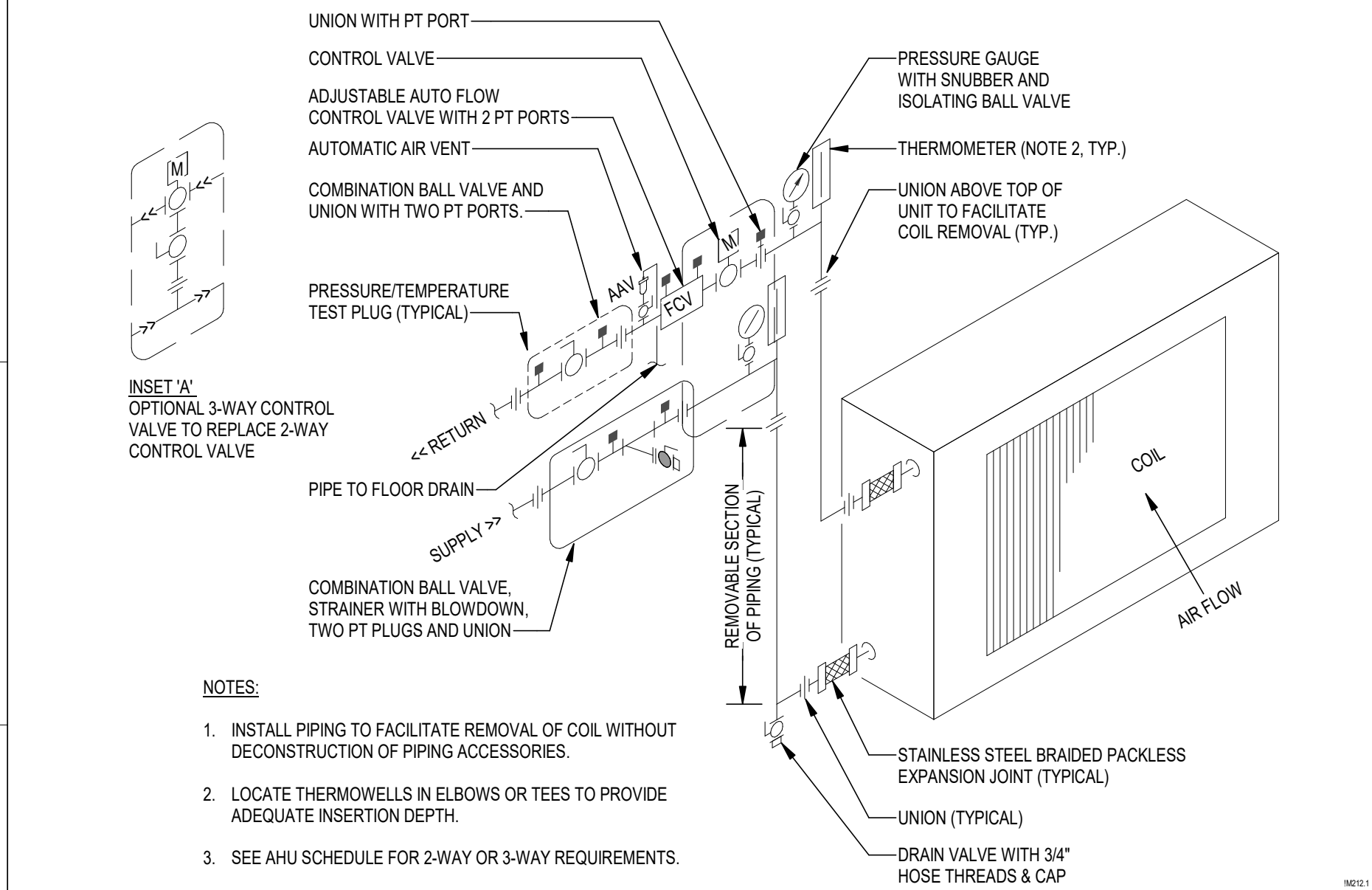
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SCHEDULES

SHEET NO M404 REV NO

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J AHU COIL PIPING (2 1/2\"/>

F PRIMARY/SECONDARY HEATING HOT WATER PIPING SCHEMATIC

C BASE MOUNTED END SUCTION PUMP

NOTE:
11\"/>

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THE SCALE NOTED ON THESE DRAWINGS.

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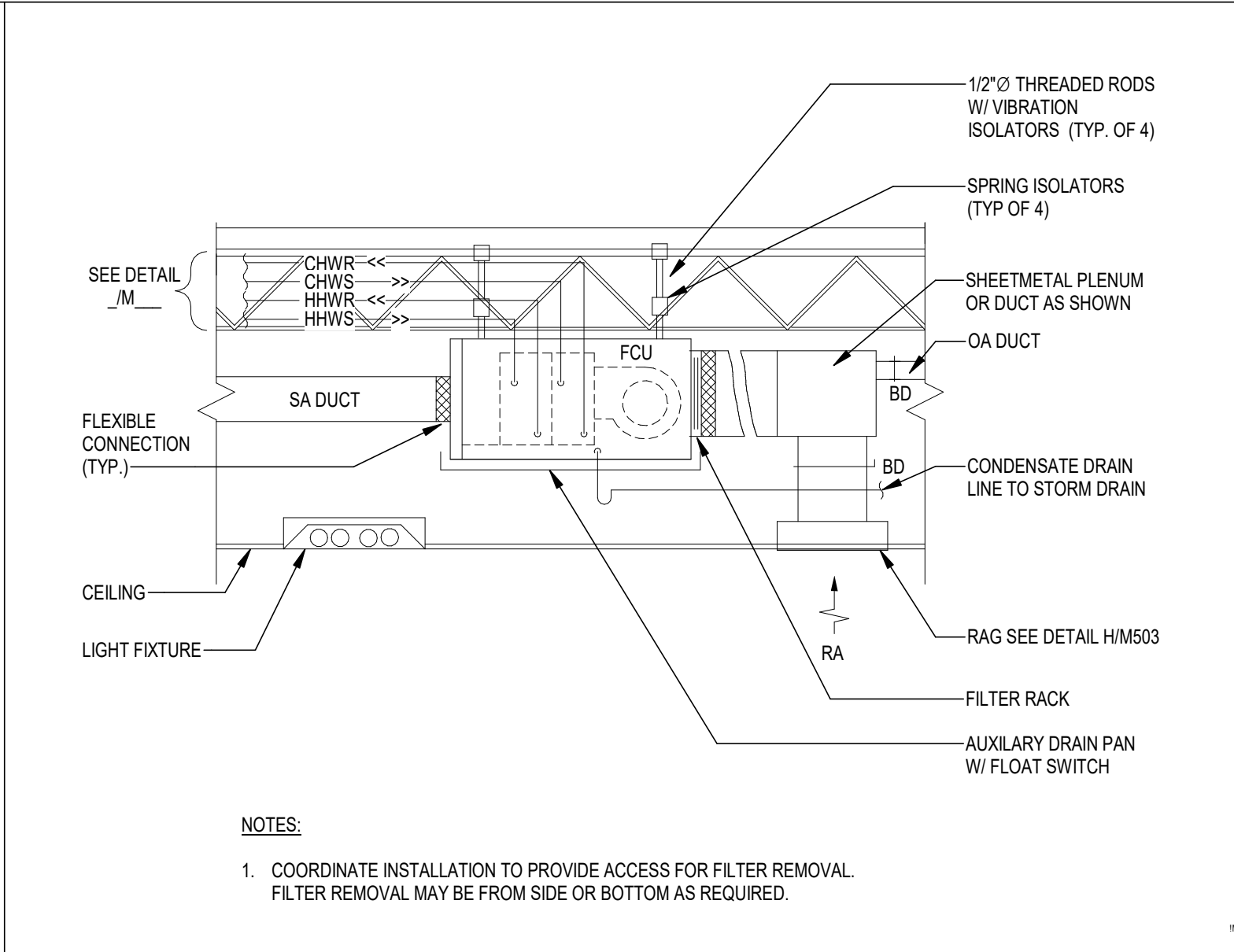
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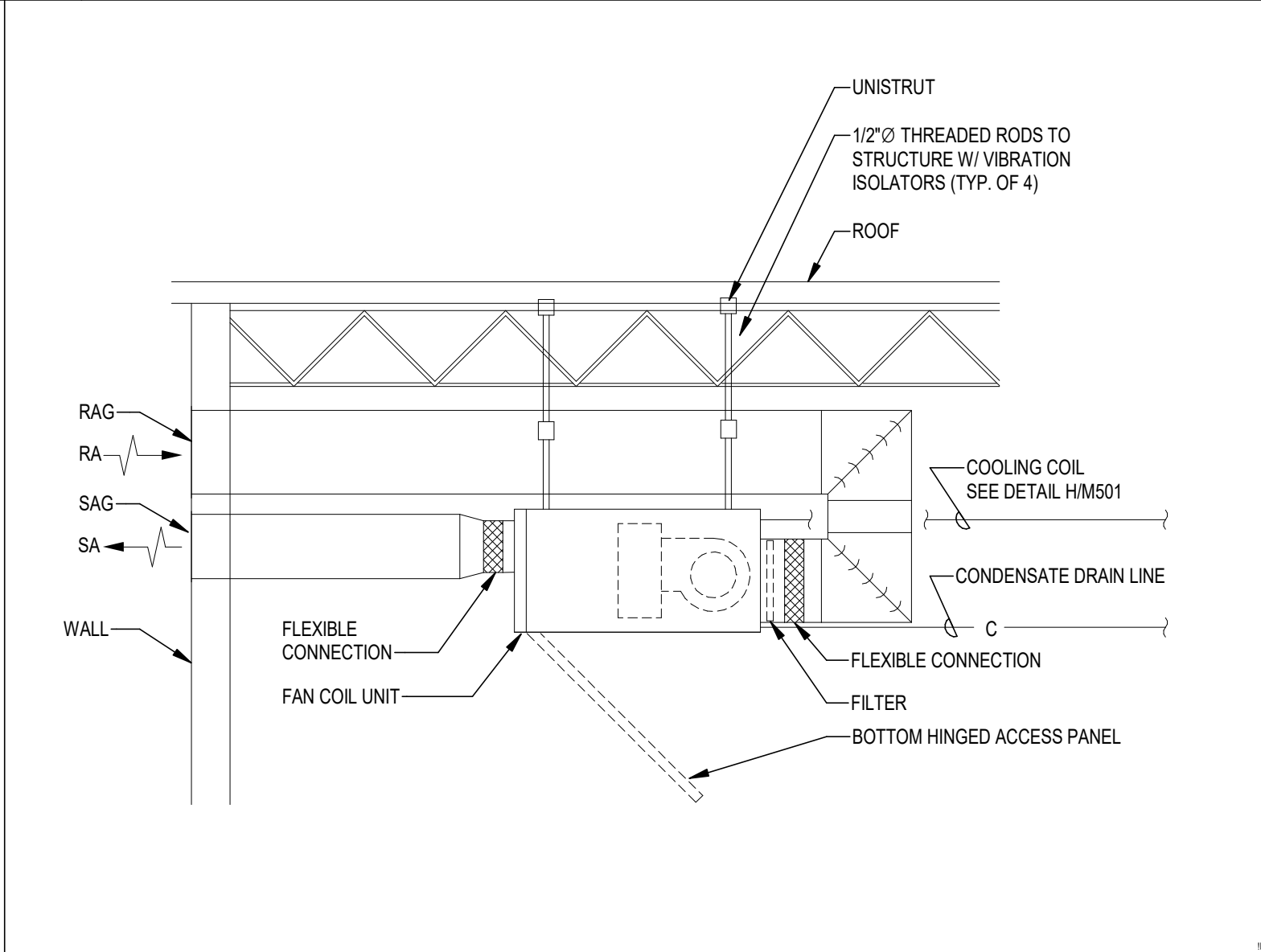
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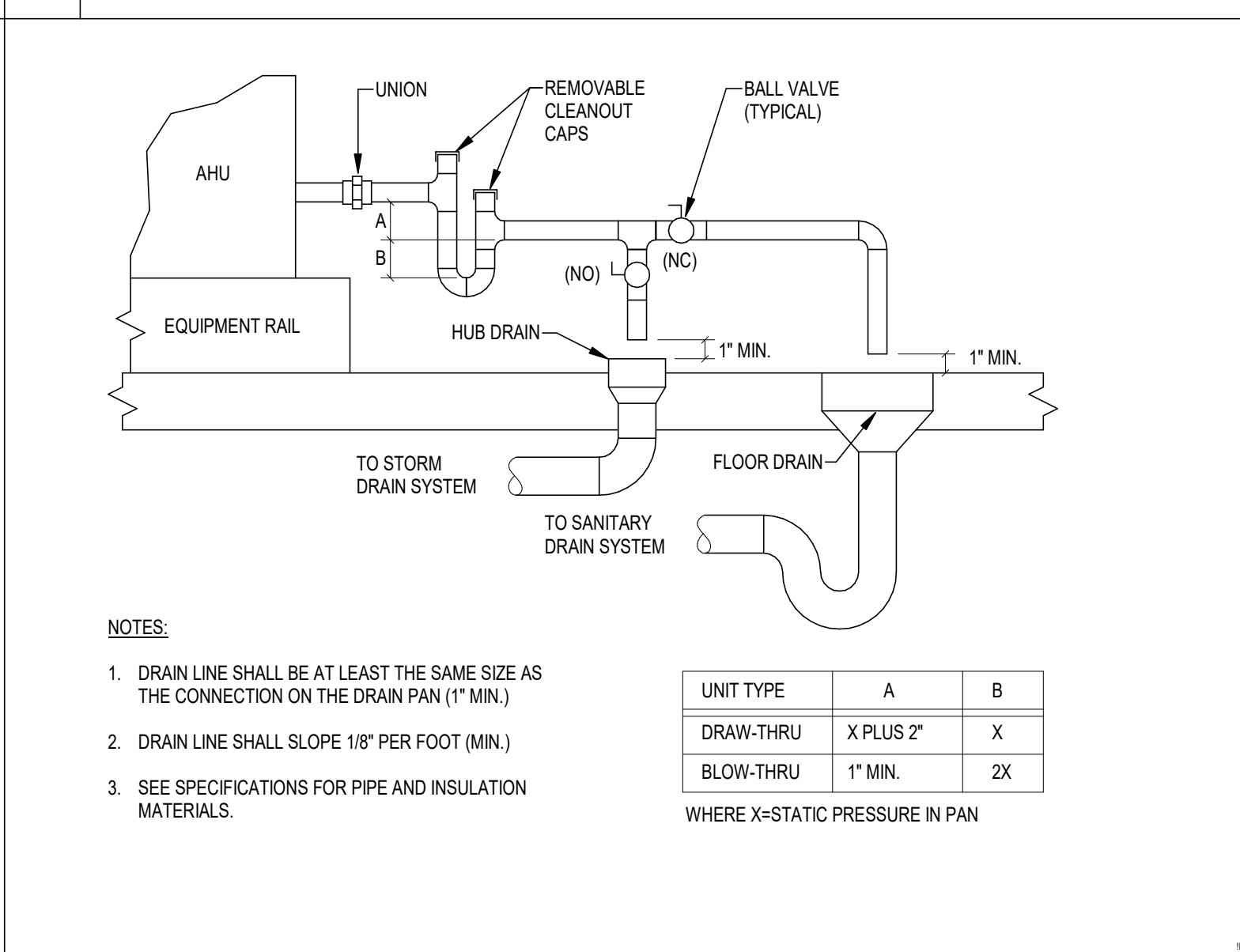
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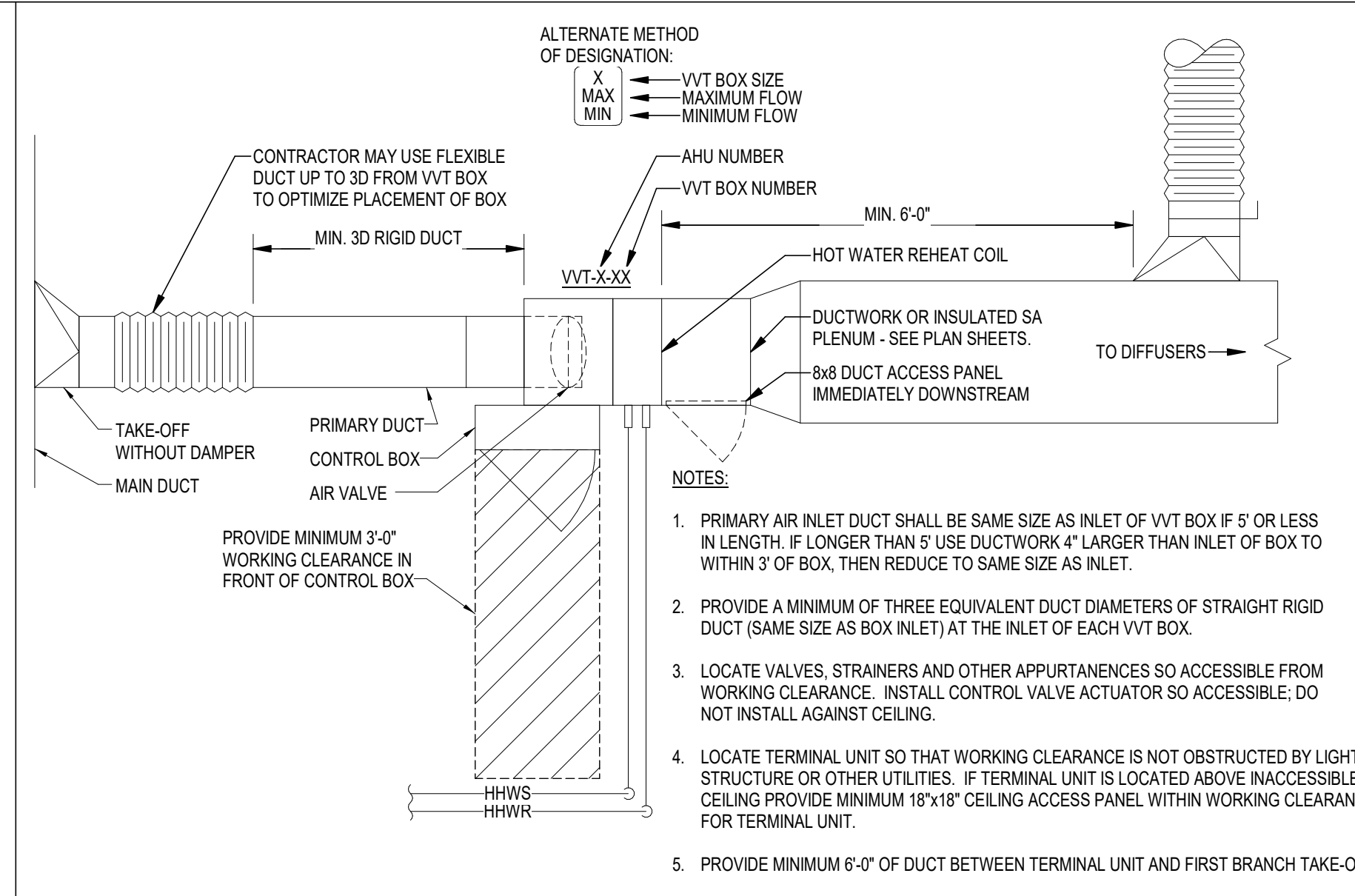
A FAN COIL UNIT AT STAIRWELL



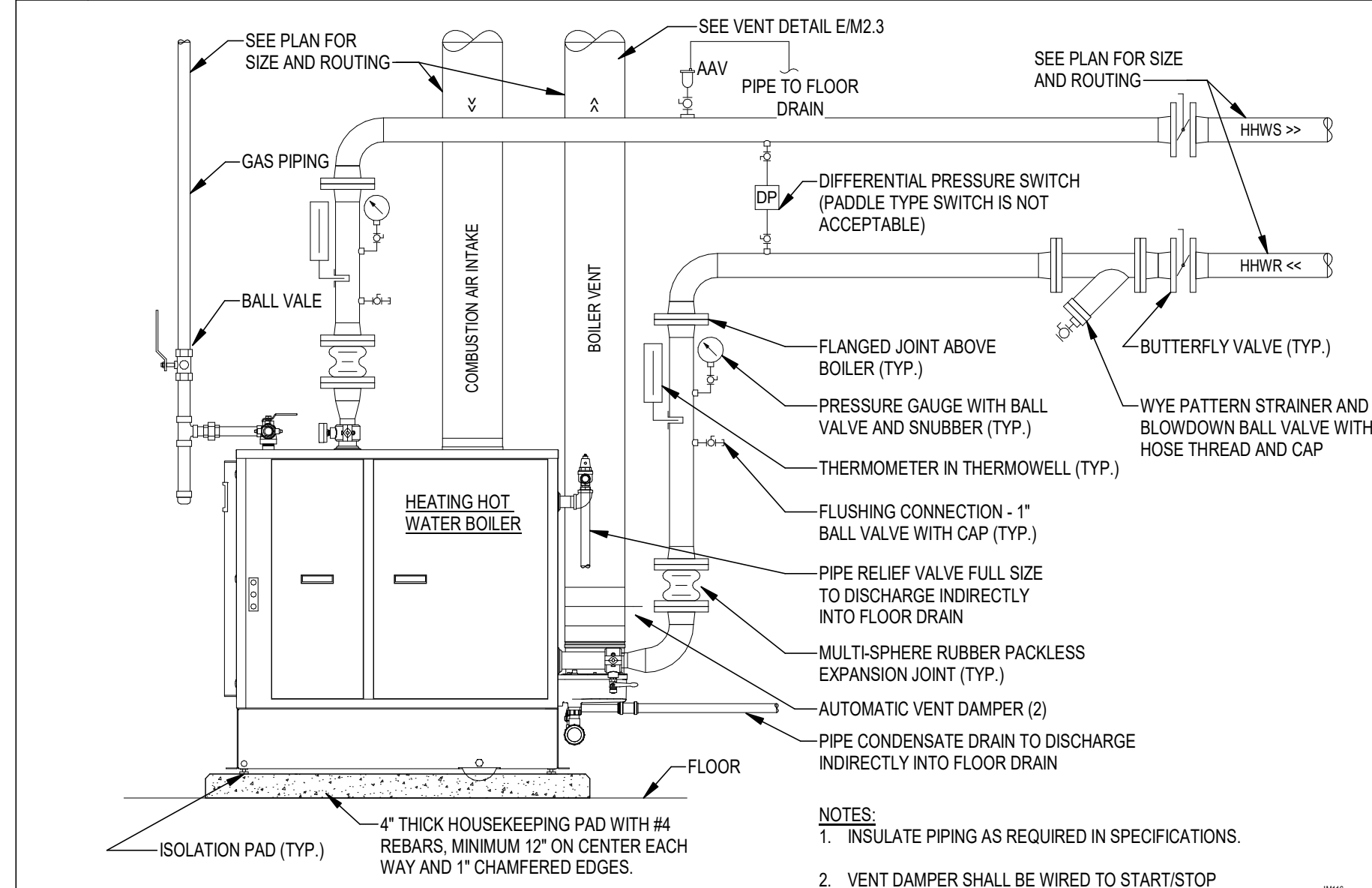
B FAN COIL UNIT AT ELECTRICAL ROOMS



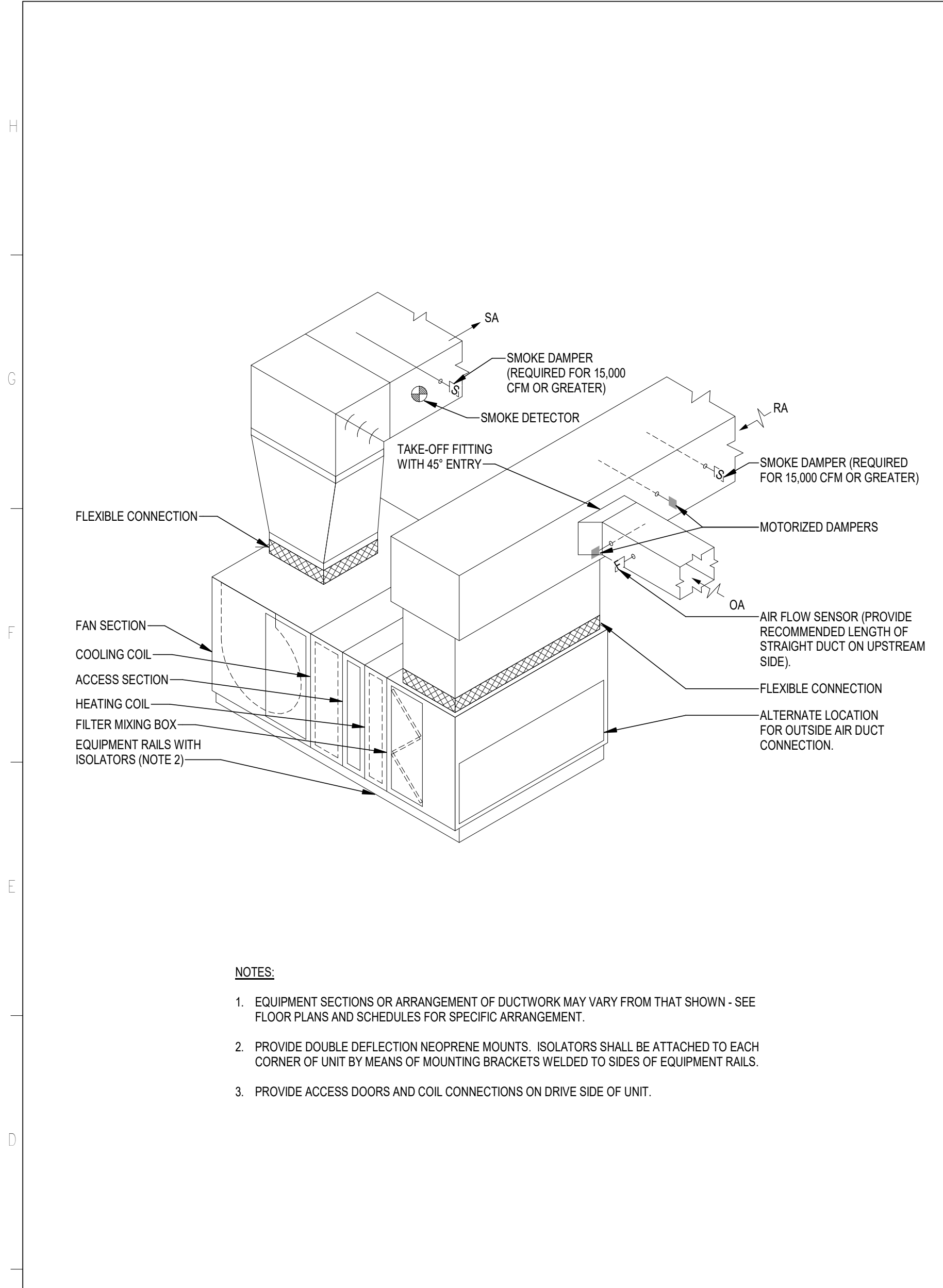
C AHU CONDENSATE DRAIN



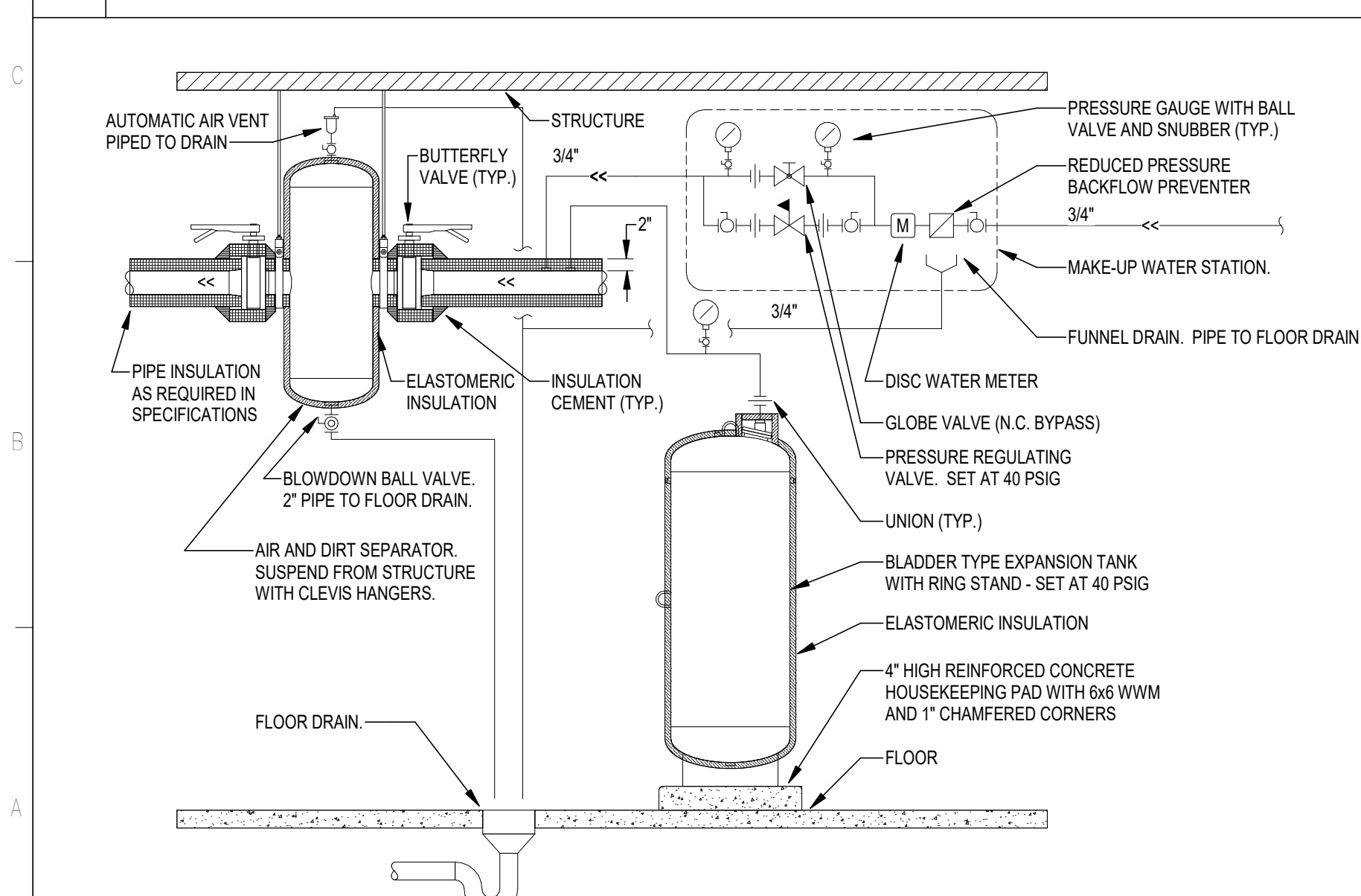
D VARIABLE VOLUME TERMINAL UNIT



E HOT WATER BOILER

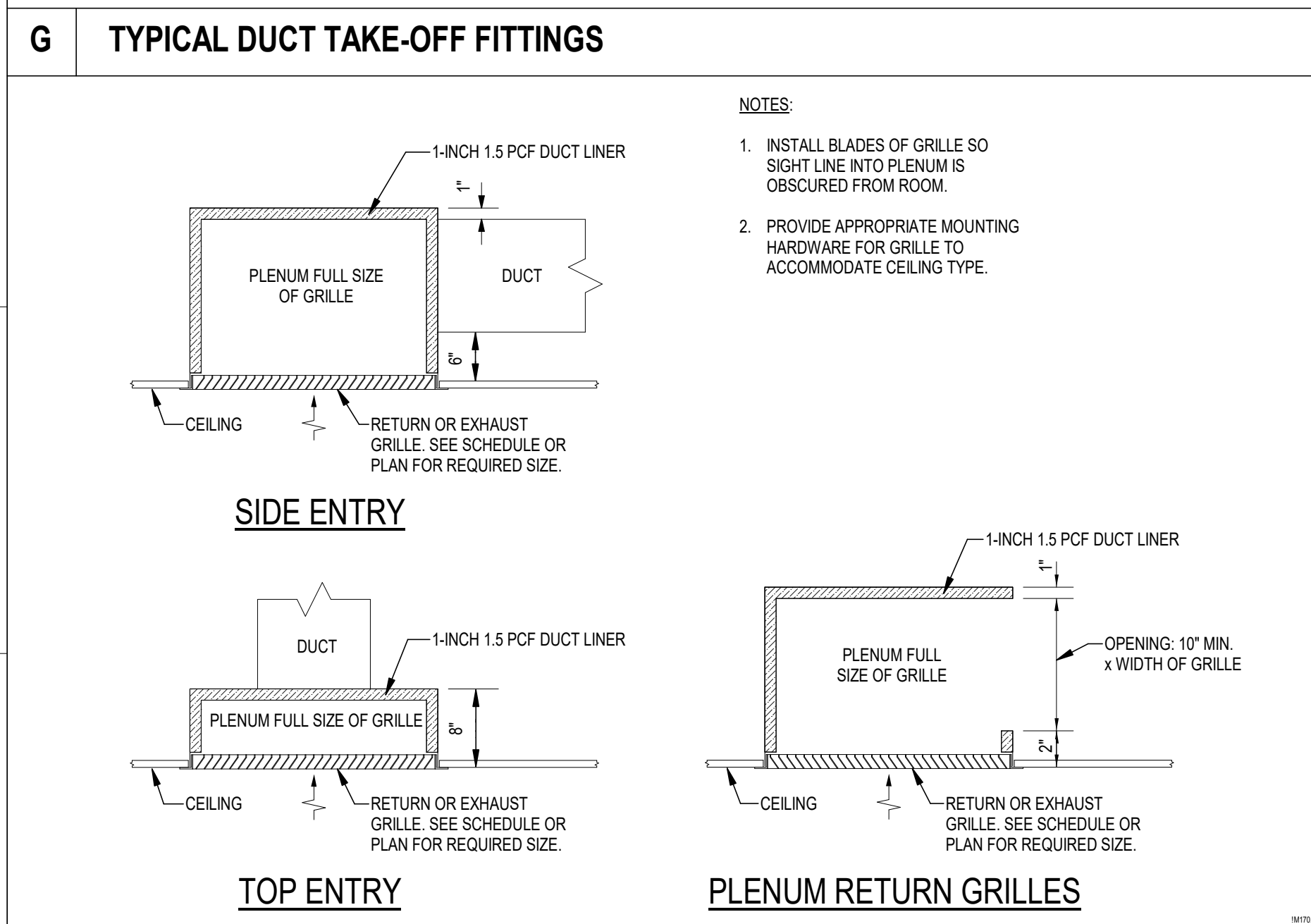
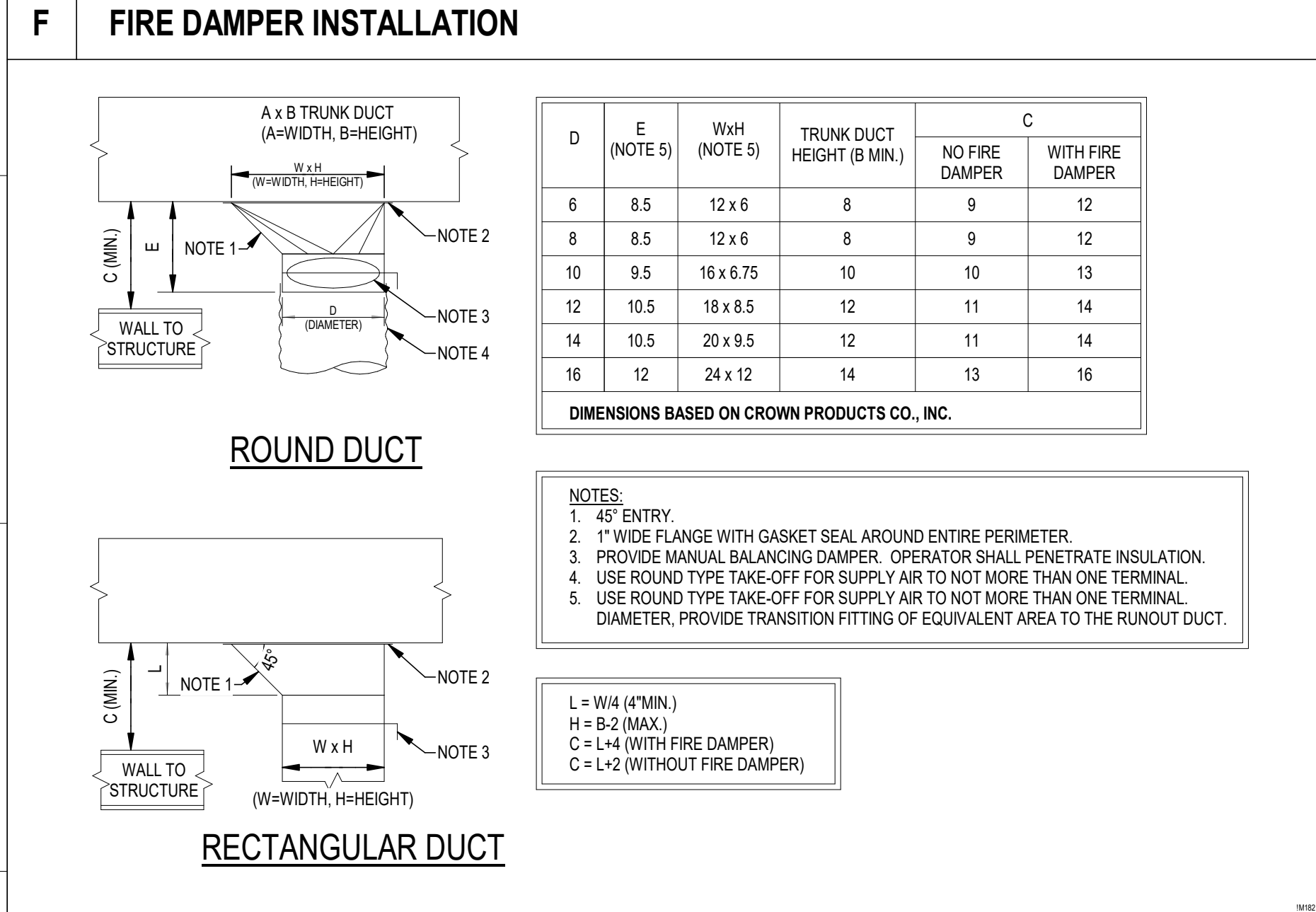
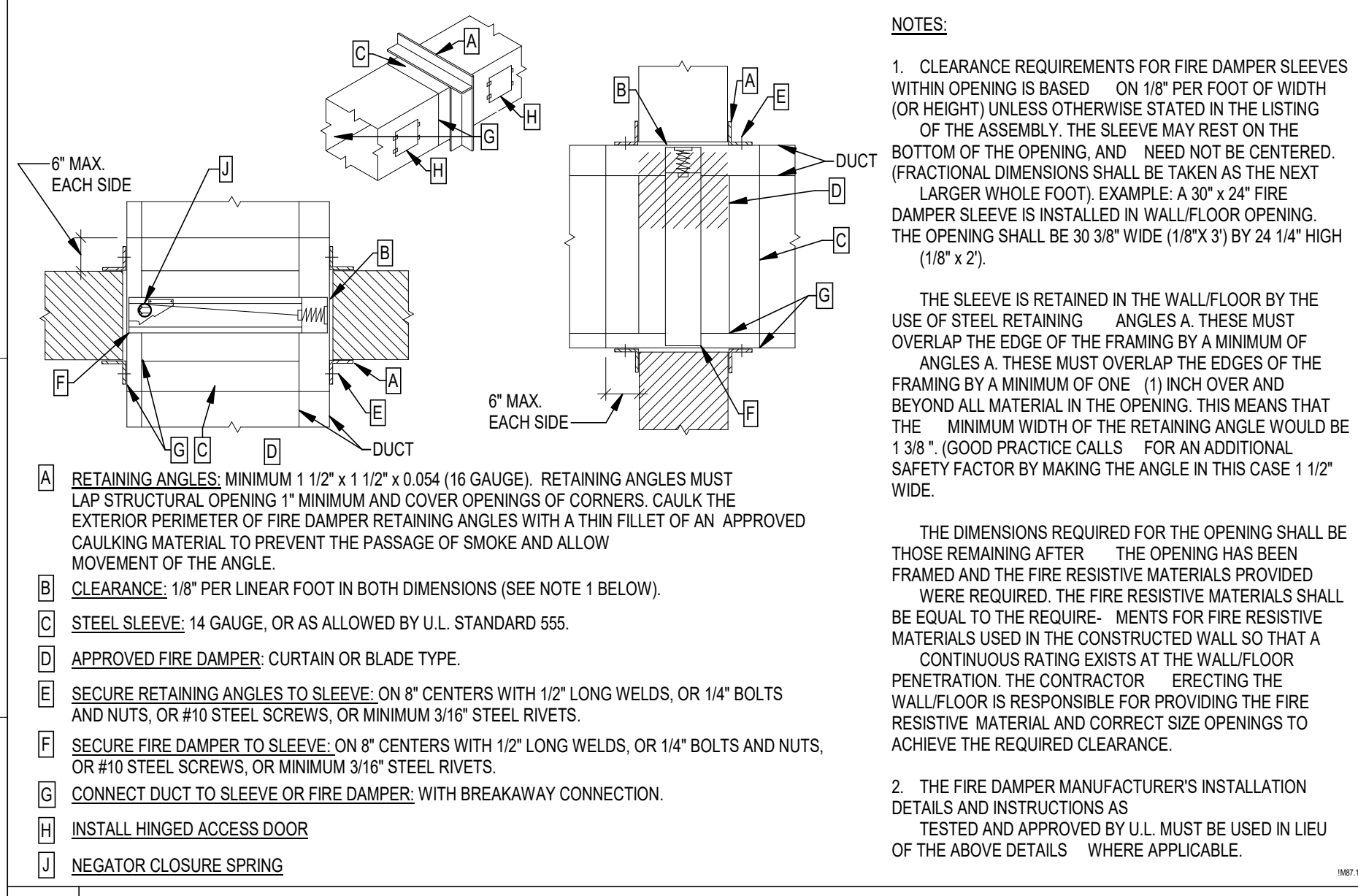


G HORIZONTAL MODULAR AIR HANDLING UNIT

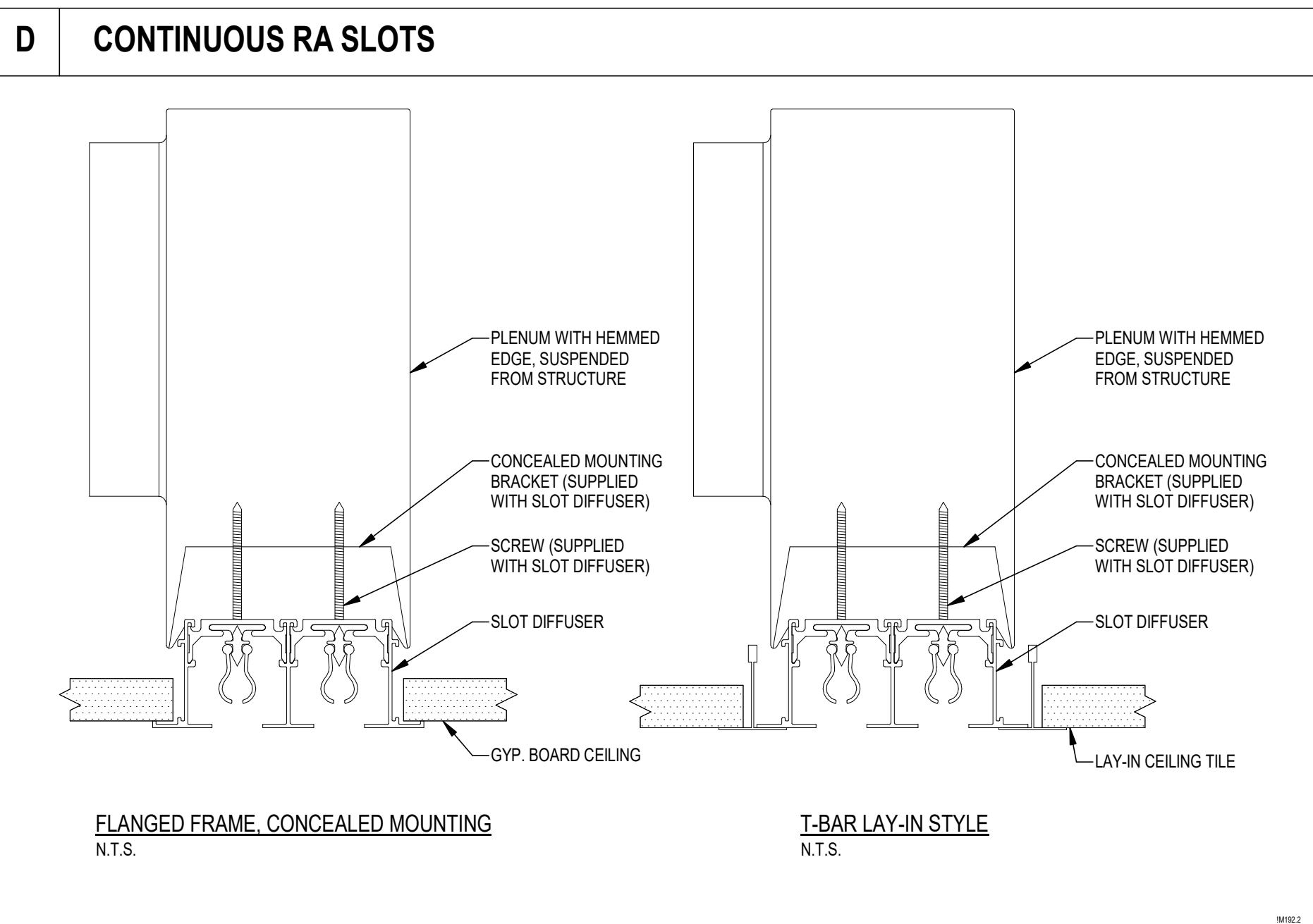
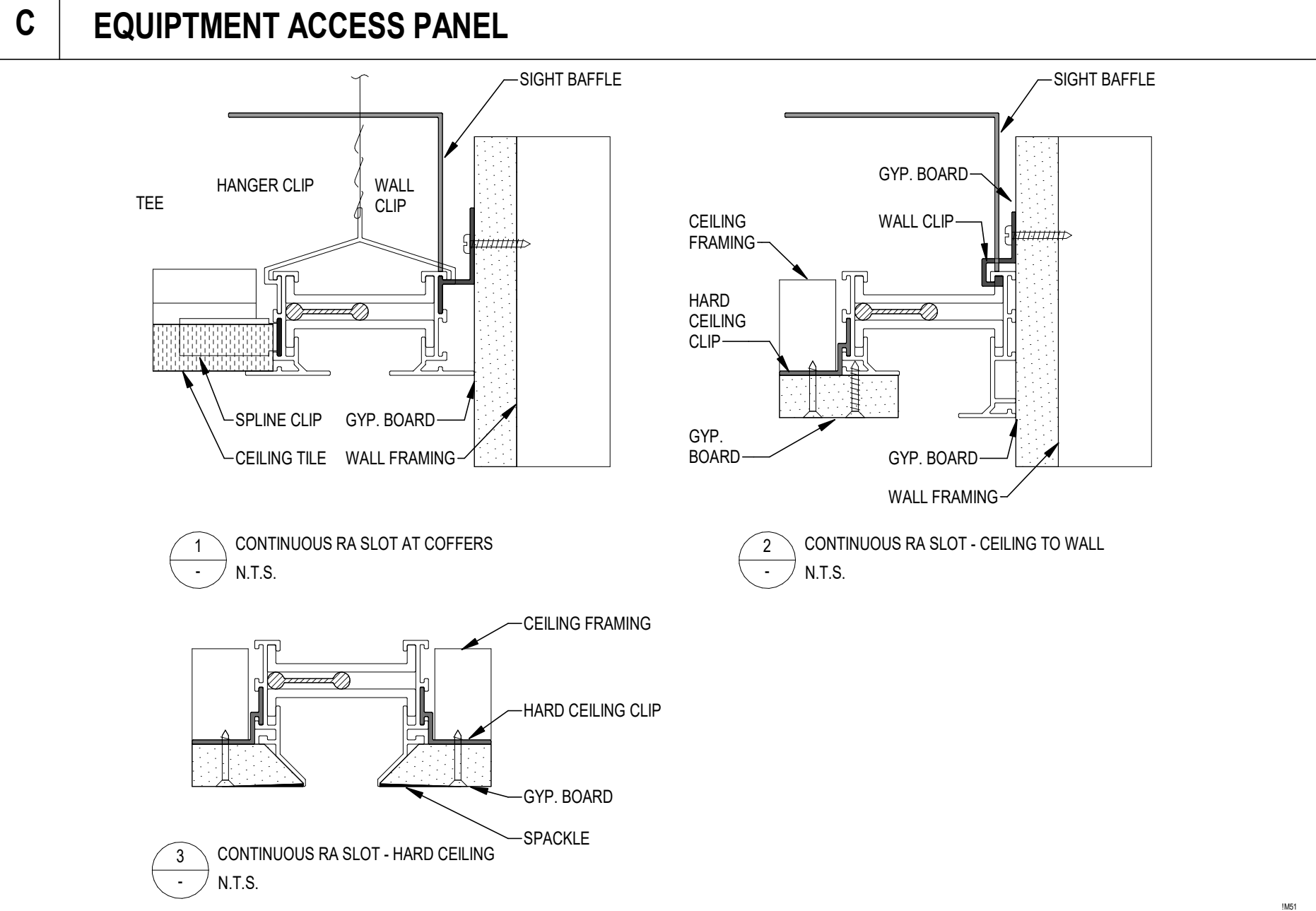
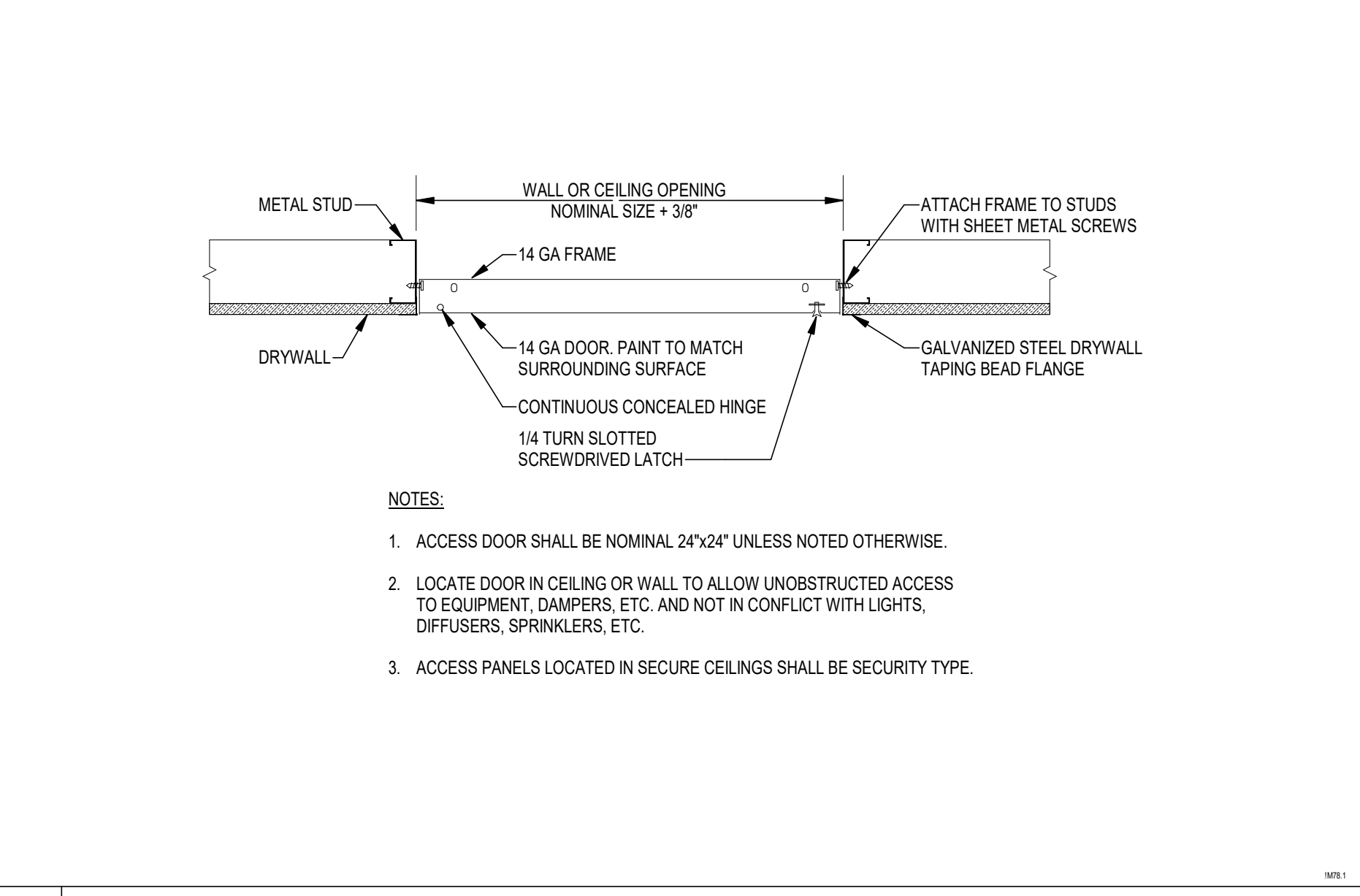


H AIR AND DIRT SEPARATOR / EXPANSION TANK / MAKE-UP WATER STATION

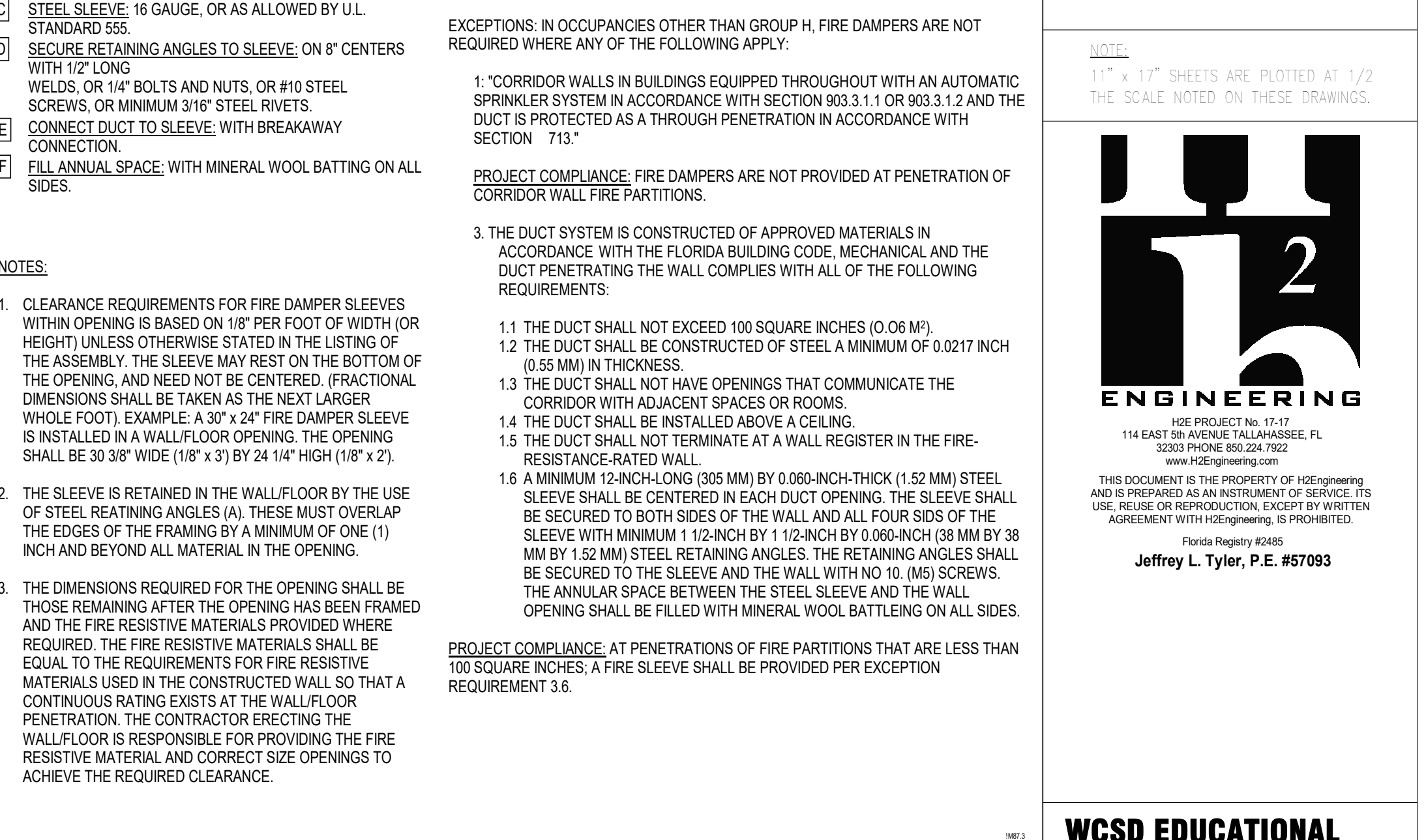
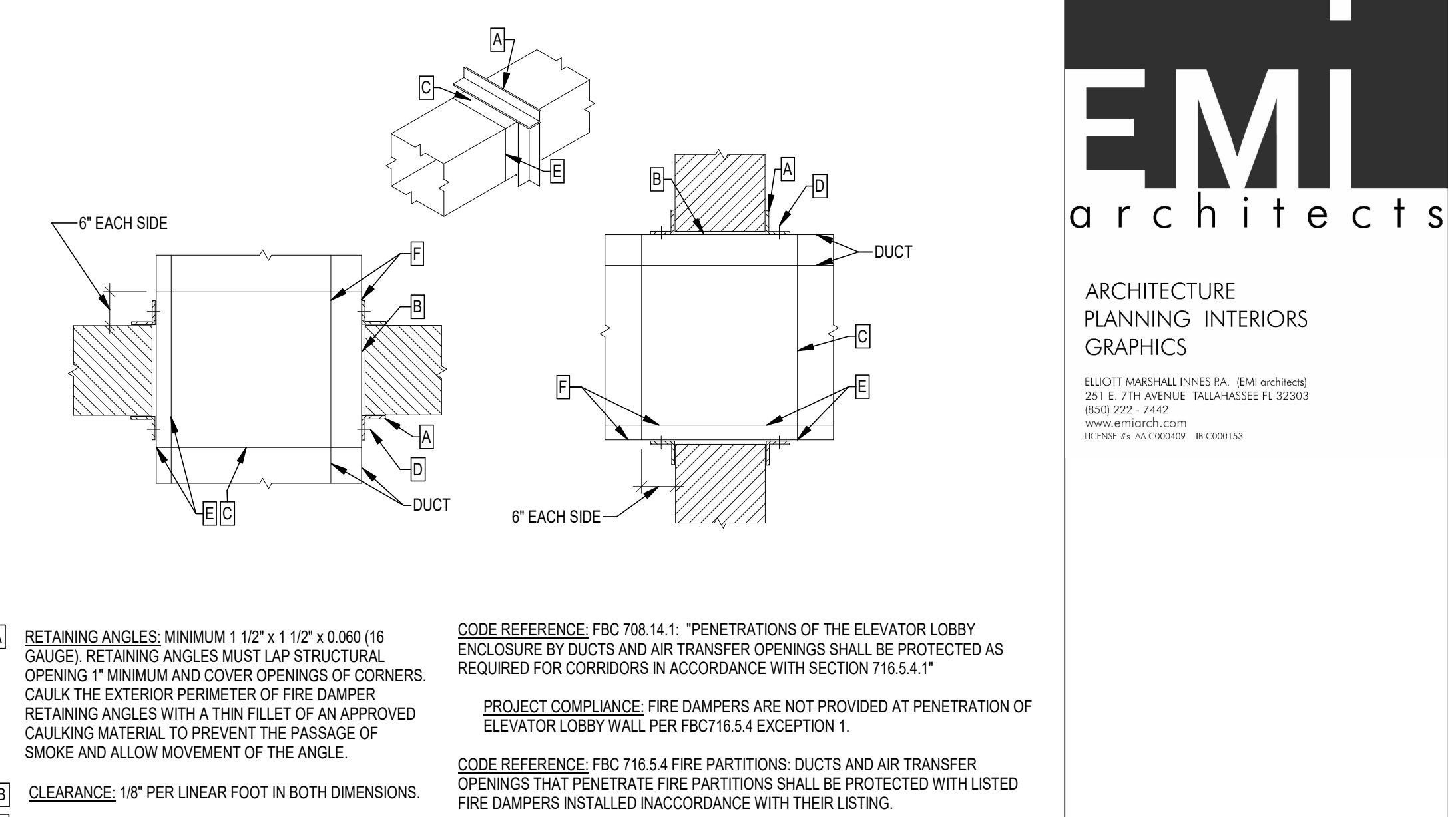
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H RETURN OR EXHAUST CEILING GRILLE



E SLOT DIFFUSER DETAIL



B FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER



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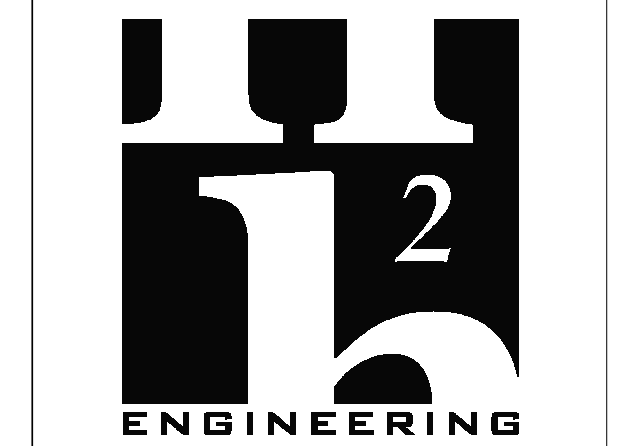
CODE REFERENCE: FBC 708.14.1: "PENETRATIONS OF THE ELEVATOR LOBBY ENCLOSURE BY DUCTS AND AIR TRANSFER OPENINGS SHALL BE PROTECTED AS REQUIRED FOR CORRIDORS IN ACCORDANCE WITH SECTION 716.5.4.1"

PROJECT COMPLIANCE: FIRE DAMPERS ARE NOT PROVIDED AT PENETRATION OF ELEVATOR LOBBY WALL PER FBC 716.5.4 EXCEPTION 1.

CODE REFERENCE: FBC 716.5.4 FIRE PARTITIONS: DUCTS AND AIR TRANSFER OPENINGS THAT PENETRATE FIRE PARTITIONS SHALL BE PROTECTED WITH LISTED FIRE DAMPERS INSTALLED IN ACCORDANCE WITH THEIR LISTING.

EXCEPTIONS: IN OCCUPANCIES OTHER THAN GROUP H, FIRE DAMPERS ARE NOT REQUIRED WHERE ANY OF THE FOLLOWING APPLY:

NOTE:
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