

CODE REFERENCES	
FBC, BUILDING	FLORIDA BUILDING CODE, BUILDING, 2023 EIGHTH EDITION
FBC, EXISTING BUILDING	FLORIDA BUILDING CODE, EXISTING BUILDING, 2023 EIGHTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, MECHANICAL, 2023 EIGHTH EDITION
FBC, FUEL GAS	FLORIDA BUILDING CODE, FUEL GAS, 2023 EIGHTH EDITION
FBC, EXISTING BUILDING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2023 EIGHTH EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2019 EDITION
NFPA 54	NATIONAL FUEL GAS CODE, 2021 EDITION
NFPA 70	NATIONAL ELECTRIC CODE, 2020 EDITION
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, 2021 EDITION
NFPA 101	LIFE SAFETY CODE, 2021 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2019 EDITION

DESIGN CRITERIA	
BUILDING TYPE	BUSINESS
CLIMATE ZONE	2A, GADSDEN COUNTY, FLORIDA
OUTDOOR DESIGN CONDITIONS (SUMMER)	96°F DB, 78°F WB
OUTDOOR DESIGN CONDITIONS (WINTER)	25°F DB
INTERIOR DESIGN TEMPERATURES	72°F HEATING, 75°F COOLING
ENERGY COMPLIANCE METHOD	PERFORMANCE BASED.
SCOPE OF WORK	THE HVAC SCOPE OF THIS PROJECT IS TO INSTALL NEW AIR HANDLING UNITS ERVS AS REQUIRED TO PROVIDE COOLING/HEATING AND VENTILATION FOR THE EXISTING BUILDING AND INDOOR BASKETBALL BUILDING ADDITION.

PIPING SYMBOLS	
CHECK VALVE	
PIPING UP	
PIPING DOWN	
END CAP	
CONTROL VALVE	
GATE VALVE	
BUTTERFLY VALVE	
BALL VALVE	
PUMP (SCHEMATIC)	
UNION	
FLEXIBLE CONNECTION (STAINLESS STEEL, UNO)	
DIRECTION OF FLOW	
CHILLED WATER SUPPLY & CHILLED WATER RETURN	
HEATING HOT WATER SUPPLY & HEATING HOT WATER RETURN	
CONDENSATE & PUMP	
CONDENSATE	

ABBREVIATIONS & SYMBOLS	
AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISHED ROOF
AFD	ADJUSTABLE FREQ. DRIVE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
BHP	BRAKE HORSE POWER
CD	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GPM	GALLONS PER MINUTE
KW	KILLOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTUS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOC	MAXIMUM OVER CURRENT PROTECTION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
PSI	POUNDS PER SQUARE INCH
PISG	PSI GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RG	RETURN GRILLE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SG	SUPPLY GRILLE
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTED OTHERWISE
WP	WEATHER PROOF
ΔP	CHANGE IN PRESSURE
ΔT	CHANGE IN TEMPERATURE
SIM	SIMILAR
DIFFUSER TAG, NEW	

DUCT SYMBOLS	
SUPPLY AIR DUCTWORK DOWN	
SUPPLY AIR DUCTWORK UP	
OUTSIDE AIR DUCTWORK DOWN	
OUTSIDE AIR DUCTWORK UP	
FLEXIBLE CANVAS CONNECTION	
RETURN AIR DUCTWORK UP	
RETURN AIR DUCTWORK DOWN	
EXHAUST AIR DUCTWORK UP	
EXHAUST AIR DUCTWORK DOWN	
MECHANICAL EQUIPMENT WITH MAINTENANCE CLEARANCE	
MANUAL BALANCE DAMPER	
FLEXIBLE DUCTWORK	
SUPPLY AIR DIFFUSER	
RETURN AIR GRILLE	
EXHAUST AIR GRILLE	
THERMOSTAT/TEMPERATURE SENSOR WITH CONTROL WIRING	

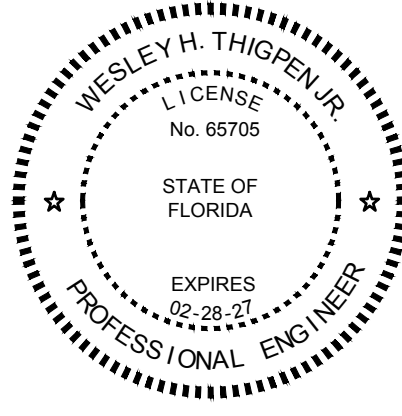
GENERAL HVAC NOTES	
1	TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
2	THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS.
3	THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE.
4	CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
5	ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.
6	WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
7	DRAWINGS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT (WHERE APPLICABLE) TO ENSURE EQUIPMENT FURNISHED WILL WORK FOR SPACES PROVIDED. FINAL DIMENSIONS OF DUCTWORK AND PIPING SHALL BE COORDINATED IN FIELD. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING TO FIT IN SPACES PROVIDED AND THESE ADDITIONAL OFFSETS AND TRANSITIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
8	DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AT TIME OF PROJECT PERMIT.
9	THERMOSTATS, HUMIDISTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND/OR OTHER DEVICES REQUIRING OCCUPANT ADJUSTMENT BUT LOCATED ON WALL SHALL BE MOUNTED 48" AFF, UNLESS NOTED OTHERWISE.
10	WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WIRE EQUIPMENT OR DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOLOGY SHALL APPLY.
11	THESE GENERAL NOTES WORK IN CONJUNCTION WITH NOTES SHOWN ON PLAN VIEWS. THESE NOTES DO NOT SUPERCEDE NOTES SHOWN ON PLAN VIEW DRAWINGS. CONVERSELY, NOTES SHOWN ON PLAN VIEW DRAWINGS DO NOT SUPERCEDE THESE GENERAL NOTES.
12	REFER TO EQUIPMENT SCHEDULES FOR AIR AND WATER PRESSURE DROPS ASSOCIATED WITH COOLING AND HEATING COILS.
13	PROVIDE ACCESS PANELS IN DUCTWORK AND/OR BUILDING CONSTRUCTION WHERE REQUIRED FOR EQUIPMENT ACCESS AND SERVICE. PANELS SHALL BE SIZED TO SUIT EQUIPMENT SERVICED. WHERE PANELS WILL BE LOCATED IN FIRE RATED WALLS AND/OR PARTITIONS, THE ACCESS PANEL SHALL MEET THE RATING OF THE WALL. REFER TO ARCHITECTURAL DRAWINGS FOR RATINGS OF WALLS AND PARTITIONS.
14	UNLESS NOTED OTHERWISE, DUCTWORK, PIPING, VALVES, DAMPERS, AND ALL ASSOCIATED ANCILLARY HVAC DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MECHANICAL SPECIFICATIONS. ALL EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE NEW, UNLESS NOTED OTHERWISE, NO EXCEPTIONS.
15	PAINT DUCTWORK AND DAMPERS VISIBLE THRU REGISTERS FLAT BLACK PRIOR TO OWNER OCCUPANCY.
16	HVAC EQUIPMENT PROVIDED FROM THIRD PARTY MANUFACTURER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. WHERE CONFLICTS BETWEEN CONTRACT DOCUMENTS AND MANUFACTURER'S INSTRUCTION ARISE, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL PREVAIL.
17	THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.
18	FOR EQUIPMENT DEMOLISHED UNDER THIS CONTRACT, THE CONTRACTOR SHALL ALLOW THE OWNER FIRST REFUSAL OF DEMOLISHED EQUIPMENT. IF EQUIPMENT IS REFUSED, THE CONTRACTOR SHALL DISPOSE OF DEMOLISHED EQUIPMENT IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. IN ADDITION, FOR EQUIPMENT INDICATED TO BE DEMOLISHED, THE CONTRACTOR SHALL ASSUME THAT THIS ALSO REQUIRES DEMOLITION OF ALL ASSOCIATED APPURTENANCES INCLUDING ELECTRICAL CONNECTIONS, CONTROLS CONNECTIONS, ETC.
19	CONTROLS COMPONENTS INDICATED TO BE DEMOLISHED SHALL ALSO INCLUDE CONTROL WIRING AND CONDUITS, REGARDLESS OF VOLTAGE. WHERE CONTROLS WIRING IS 120V AND ABOVE, A LICENSED ELECTRICAL CONTRACTOR SHALL BE PROCURED BY THE CONTROLS VENDOR TO PERFORM WORK.
20	THE CONTROLS VENDOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONTROL WIRING AND CONDUIT ASSOCIATED WITH THIS PROJECT, REGARDLESS OF VOLTAGE. WHERE CONTROL VOLTAGE IS 110V AND ABOVE, THE CONTROLS VENDOR SHALL PROCURE THE SERVICES OF A FLORIDA LICENSED ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WIRING AND CONDUITS IN ACCORDANCE WITH NEC AND THE LOCAL AUTHORITY HAVING JURISDICTION.
21	WHERE THERE ARE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCHES SHALL PREVAIL. MOUNT THERMOSTAT/HUMIDISTATS ADJACENT TO LIGHT SWITCHES.
22	AS REQUIRED BY BUILDING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TRANSITIONS AND EQUIVALENT SQUARE DUCT SIZES NEEDED TO FIT THRU JOISTS AND/OR WALL 2x4 SPACING WHERE ROUND IS SHOWN ON PLANS. THE CONTRACTOR SHALL PROVIDE THESE TRANSITIONS AND SQUARE DUCTS AT NO ADDITIONAL COST TO THE OWNER. COORDINATE WITH THE GC IN FIELD FOR JOIST AND WALL 2x4 REQUIREMENTS.
23	WHERE REQUIRED BY BUILDING CONSTRUCTION AND HEIGHT TO EQUIPMENT SERVED, THE CONTRACTOR SHALL PROVIDE HOISTING MECHANISMS AS WELL AS SCAFFOLDING WHERE REQUIRED TO INSTALL EQUIPMENT SHOWN WITHIN THESE CONTRACT DOCUMENTS. EQUIPMENT USED FOR THE INSTALLATION OF EQUIPMENT SHALL MEET ALL OSHA REQUIREMENTS.
24	PROVIDE MANUAL BALANCE DAMPERS FOR SUPPLY, RETURN, AND EXHAUST TAKE-OFFS TO REGISTERS WHETHER INDICATED OR NOT. WHERE DAMPERS WILL BE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE OPPOSED BLADE MANUAL BALANCE DAMPERS FROM REGISTER MANUFACTURER.

HVAC SPECIFICATIONS	
1	SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCTWORK: ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES AND SHALL BE CONSTRUCTED FROM G90 GALVANIZED SHEET STEEL. ALL SEAMS SHALL BE SEALED TO A MINIMUM OF 2" PRESSURE CLASS WITH WATER BASED MASTIC.
2	CONCEALED SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCT CONNECTED TO ERVS: INSULATE WITH MINIMUM, 2" THICK FIBERGLASS DUCT WRAP. SEAL SEAMS IN DUCT WRAP WITH TAPE AND A MINIMUM OF (2) COATS OF INSULATION MASTIC, WHITE IN COLOR. INSULATION SHALL HAVE A MINIMUM INSTALLED R-VALUE OF R-6.
3	EXPOSED SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCT CONNECTED TO ERVS: INSULATE WITH MINIMUM, 1.5" THICK FIBERGLASS DUCT BOARD. SEAL SEAMS IN INSULATION WITH TAPE AND A MINIMUM OF (2) COATS OF INSULATION MASTIC, WHITE IN COLOR. INSULATION SHALL HAVE A MINIMUM INSTALLED R-VALUE OF R-8.
4	CONDENSATE PIPING: CONDENSATE PIPING LOCATED ON BUILDING EXTERIOR SHALL BE TYPE DWV COPPER WITH PRESSED JOINTS. WHERE PIPING IS LOCATED INDOORS, SCHEDULE 40 PVC SOLID WALL PIPING MAY BE USED. CONDENSATE PIPING LOCATED INDOORS SHALL BE INSULATED WITH A MINIMUM, 3/4" ELASTOMERIC INSULATION WITH GLUED SEAMS AS NEEDED TO PROVIDE A COMPLETE VAPOR BARRIER. PIPING LOCATED OUTDOORS DOES NOT REQUIRE INSULATION.
5	HVAC SYSTEMS SHALL BE TESTED AND BALANCED BY A TEST AND BALANCE AGENT CERTIFIED BY NEBS OR SHALL BE A FIRM UNDER DIRECT SUPERVISION OF A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBC, ENERGY.
6	FLEXIBLE DUCTWORK SHALL BE TRILAMINATE AROUND A HELICAL COIL AND INSULATED WITH A MINIMUM OF 2" FIBERGLASS DUCT WITH A FSK VAPOR BARRIER. FLEXIBLE DUCTS SHALL BE SECURED IN PLACE TO DUCT TAKEOFFS AND REGISTERS WITH NYLON STRAP, MINIMUM, (2) SCREWS AND DUCT MASTIC. TAPE SEAMS OF FLEXIBLE DUCT INSULATION TO MATED DUCT INSULATION AND PROVIDE WITH A MINIMUM OF (2) COATS OF WHITE INSULATION MASTIC. INSULATION FOR FLEXIBLE DUCTS SHALL HAVE AN R-VALUE OF R-6.
7	FLEXIBLE DUCT CONNECTORS: FLEXIBLE CONNECTORS SHALL BE LISTED FOR USE. EXTERIOR DUCT CONNECTORS SHALL BE CHEMICAL, UV, AND WEATHER RESISTANT. PROVIDE HEAVY DUTY CONNECTIONS WHERE USED FOR CONNECTIONS TO EXHAUST FANS.
8	REFRIGERANT PIPING SHALL BE TYPE ACR WITH SEALED ENDS. PROVIDE SIZING IN ACCORDANCE WITH THE AC EQUIPMENT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. SUCTION LINES SHALL BE INSULATED WITH 1" ELASTOMERIC INSULATION. REFRIGERANT PIPING LOCATED OUTDOORS SHALL BE PROVIDED WITH A STUCCO EMBOSSED ALUMINUM JACKET.
9	MOTORIZED CONTROL DAMPERS SHALL BE MODULATING LOW VOLTAGE AND OF LOW LEAKAGE CONSTRUCTION. PROVIDE LOW VOLTAGE TRANSFORMERS TIED TO THE NEAREST RECEPTACLE CIRCUIT AS NEEDED FOR PROPER CONTROL.
10	DIFFUSERS AND GRILLES SHALL BE FROM A SINGLE MANUFACTURER. DIFFUSERS AND GRILLES SHALL BE ALL ALUMINUM CONSTRUCTION AND BE WHITE IN COLOR, UNLESS NOTED OTHERWISE.
11	FIRE DAMPERS SHALL BE OF THE DYNAMIC TYPE WITH BLADES OUTSIDE THE AIRSTREAM. PROVIDE WITH 165°F BURN THRU TYPE LINKAGE CONNECTIONS.
12	HVAC EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM OF A 1-YEAR PARTS AND LABOR WARRANTY FROM THE INSTALLING CONTRACTOR. EQUIPMENT VENDORS SHALL PROVIDE A MINIMUM, 3-YEAR EXTENDED PARTS AND LABOR WARRANTY, UNLESS NOTED OTHERWISE IN SCHEDULES.
13	WHERE A MANUFACTURER HAS PROVIDED EQUIPMENT THAT HAS NOT BEEN FACTORY SET TO THE DESIGN VALUES INDICATED HEREIN, OR WHERE IT IS FOUND THAT FACTORY DEFAULT SETTINGS FOR EQUIPMENT HAVE BEEN USED WITHOUT REGARD TO SITE SPECIFIC REQUIREMENTS FOR THE PROPOSED EQUIPMENT, THE EQUIPMENT MANUFACTURER WILL BE BILLED FOR TROUBLESHOOTING PERFORMED BY THE ENGINEER TO SET EQUIPMENT THAT WAS NOT PROPERLY SET AT THE FACTORY OR BY THE FACTORY TRAINED STARTUP TECHNICIAN.



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04 APRIL 2025

Date

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NOTES,
ABBREVIATIONS &
SYMBOLS -
MECHANICAL

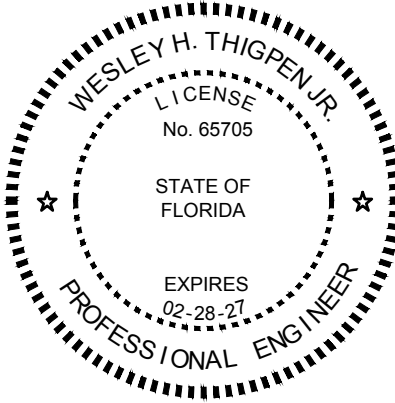
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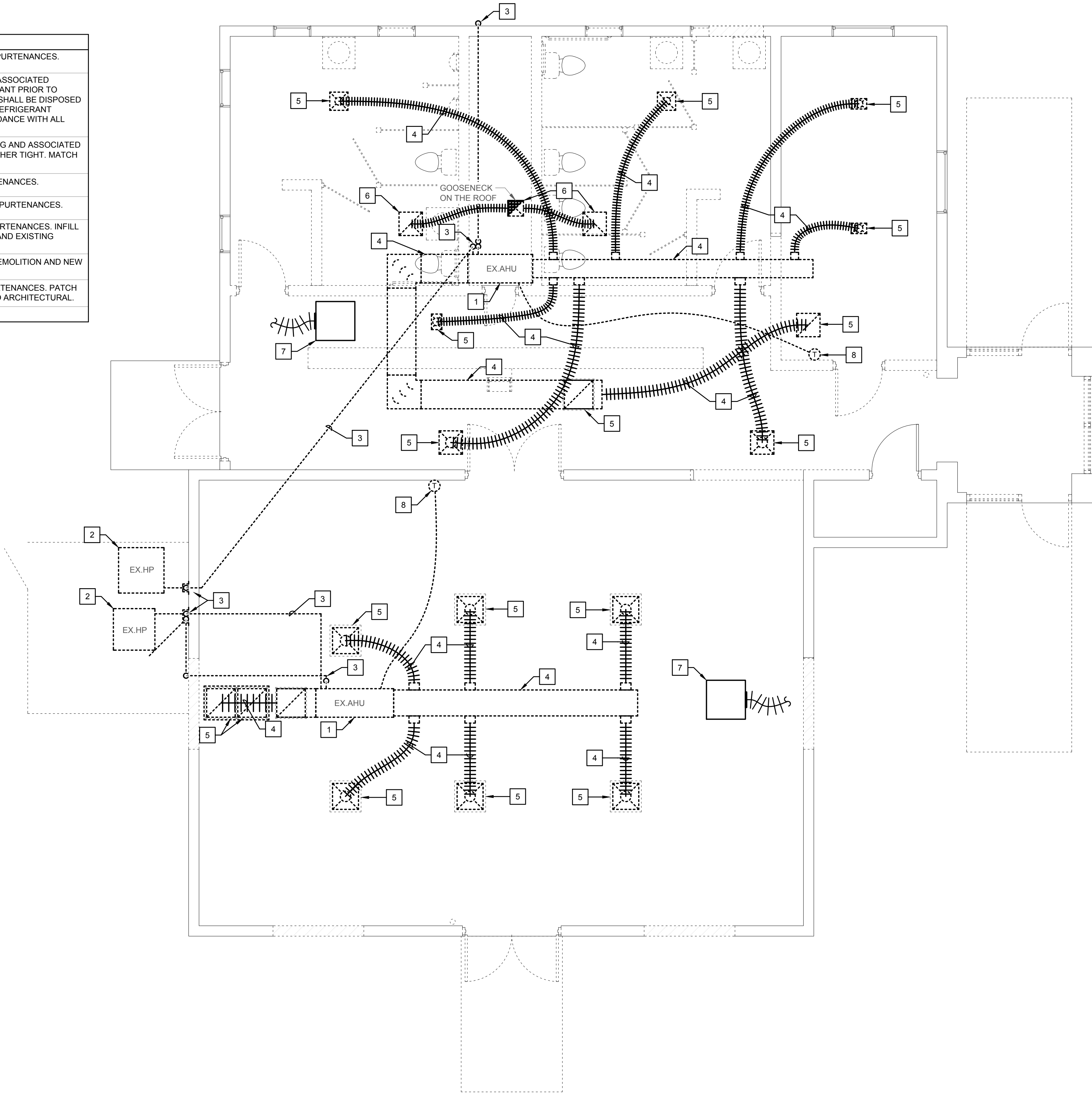
FLOOR PLAN - AREA A -
DEMOLITION -
MECHANICAL

Tallahassee Florida

MD1.1

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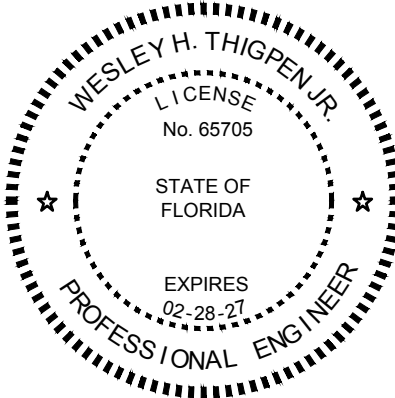
SHEET DEMOLITION KEY NOTES:	
1	DEMOLISH EXISTING AHU, DUCTWORK AND ASSOCIATED APPURTENANCES.
2	DEMOLISH EXISTING HEAT PUMP, HOUSEKEEPING PAD AND ASSOCIATED APPURTENANCES. CONTRACTOR SHALL RECLAIM REFRIGERANT PRIOR TO DEMOLITION. ONCE REFRIGERANT HAS BEEN RECLAIMED IT SHALL BE DISPOSED OF IN ACCORDANCE WITH CURRENT EPA STANDARDS. ALL REFRIGERANT RECLAMATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
3	DEMOLISH EXISTING REFRIGERANT AND CONDENSATE PIPING AND ASSOCIATED APPURTENANCES. INFILL AND SEAL OPENING AIR AND WEATHER TIGHT. MATCH EXISTING CONDITIONS, REFER TO ARCHITECTURAL.
4	DEMOLISH EXISTING DUCTWORK AND ASSOCIATED APPURTENANCES.
5	DEMOLISH EXISTING DIFFUSER/GRILLE AND ASSOCIATED APPURTENANCES.
6	DEMOLISH EXISTING EXHAUST FANS AND ASSOCIATED APPURTENANCES. INFILL AND SEAL OPENING AIR AND WEATHER TIGHT. MATCH NEW AND EXISTING CONDITIONS, REFER TO ARCHITECTURAL.
7	PROVIDE A CONSTRUCTION DUST NEGATIVE AIR FAN FOR DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.
8	DEMOLISH EXISTING THERMOSTAT AND ASSOCIATED APPURTENANCES. PATCH EXISTING WALL TO MATCH EXISTING CONDITIONS, REFER TO ARCHITECTURAL.





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FLOOR PLAN - AREA A -
RENOVATION -
DUCTWORK

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SHEET RENOVATION KEY NOTES:	
①	PROVIDE A MANUAL DAMPER FOR OUTSIDE AIR DUCTWORK. BALANCE TO CFM INDICATED ON SCHEDULES.
②	AHU SHALL BE INSTALLED IN ATTIC SPACE BETWEEN TRUSSES, SUPPORTED BY STAND. REFER TO DETAILS FOR FURTHER INFORMATION.
③	PROVIDE 20" ROUND DUCT SOX, OR EQUAL AND ROUTE AS HIGH AS POSSIBLE TO STRUCTURE, MINIMUM 15' AFF. DUCT SOX SHALL BE SIZED BY THE MANUFACTURER TO PROVIDE A MINIMUM OF 39 CFM PER LINEAR FOOT THRU THE USE OF ORIFICES SIZED AND DISTRIBUTED TO PROVIDE AIR IN A VERTICAL FLOW PATTERN.
④	ENSURE RETURN AIR GRILLE IS MINIMUM 90" AFF TO PROTECT AGAINST DAMAGE.
⑤	PROVIDE A 20x30 ACCESS DOOR TO PROVIDE MAINTENANCE AND CLEANING FOR AIR HANDLING UNIT LOCATED IN ATTIC SPACE.
⑥	WALL MOUNTED CO2 SENSOR AND OCCUPANCY SENSOR. CONNECT TO ERV-1. REFER TO DETAILS.
⑦	GRILLES FROM ERV-2 ARE TO BE INSTALLED ABOVE RETURN AIR GRILLES. ROUTE AS HIGH AS POSSIBLE TO STRUCTURE, MINIMUM 12' AFF.

1 FLOOR PLAN - AREA A - RENOVATION - DUCTWORK

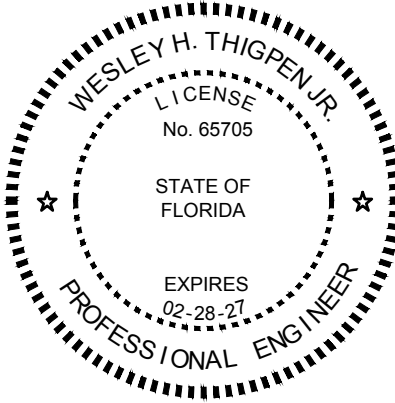
M1.1 1/4" = 1'-0"

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FLOOR PLAN - AREA B -
RENOVATION -
DUCTWORK

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M1.2

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2 MECHANICAL ROOM SECTION

M1.2 1/4" = 1'-0"

SHEET RENOVATION KEY NOTES:

1	NOT USED
2	NOT USED
3	PROVIDE 20" ROUND DUCT SOX, OR EQUAL AND ROUTE AS HIGH AS POSSIBLE TO STRUCTURE. MINIMUM 15' AFF. DUCT SOX SHALL BE SIZED BY THE MANUFACTURER TO PROVIDE A MINIMUM OF 39 CFM PER LINEAR FOOT THRU THE USE OF ORIFICES SIZED AND DISTRIBUTED TO PROVIDE AIR IN A VERTICAL FLOW PATTERN.
4	ENSURE RETURN AIR GRILLE IS MINIMUM 90" AFF TO PROTECT AGAINST DAMAGE.
5	PROVIDE DENLAR MODEL DS-30TD HOOD FOR RANGE WITH 7"Ø DISCHARGE CONNECTION OR EQUAL. HOOD SHALL BE COMPLETE WITH LIGHTING, FAN, AND PRE-INSTALLED AUTOMATIC FIRE SUPPRESSION SYSTEM. PROVIDE WITH MANUAL PULL STATION KIT, HANDICAP ACCESSIBLE CONTROL BOX AND COLOR SELECTED BY ARCHITECT. SYSTEM SHALL BE 120V/10 AND 2 AMPS. PROVIDE WITH RELAY FOR RANGE AUTOMATIC SHUTDOWN UPON SUPPRESSION SYSTEM DISCHARGE. CONNECT RANGE POWER THROUGH RELAY. HOOD PROVIDES 200 CFM EXHAUST.
6	PROVIDE WALL CAP APPROVED BY MANUFACTURER. SEAL AROUND WALL CAP AIR AND WEATHER TIGHT. WALL CAPS TO BE INSTALLED AS HIGH AS POSSIBLE.
7	GRILLES FROM ERV-2 ARE TO BE INSTALLED ABOVE RETURN AIR GRILLES. ROUTE AS HIGH AS POSSIBLE TO STRUCTURE, MINIMUM 12' AFF.
8	PROVIDE A WALL MOUNTED CO2 SENSOR AND CONNECT TO ERV-2. REFER TO DETAILS FOR FURTHER INFORMATION. MOUNT CO2 SENSOR IN BREATHING ZONE.

1 FLOOR PLAN - AREA B - RENOVATION - DUCTWORK

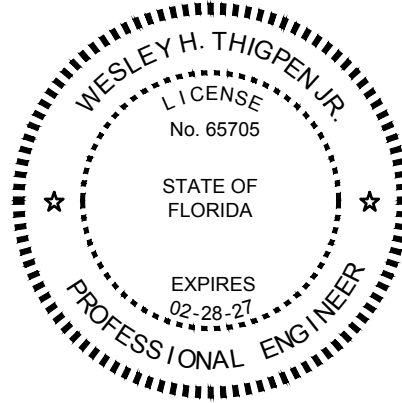
M1.2 1/4" = 1'-0"

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Certificate of Authorization #: 29709
Tomahawk Project #: 25007

RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705



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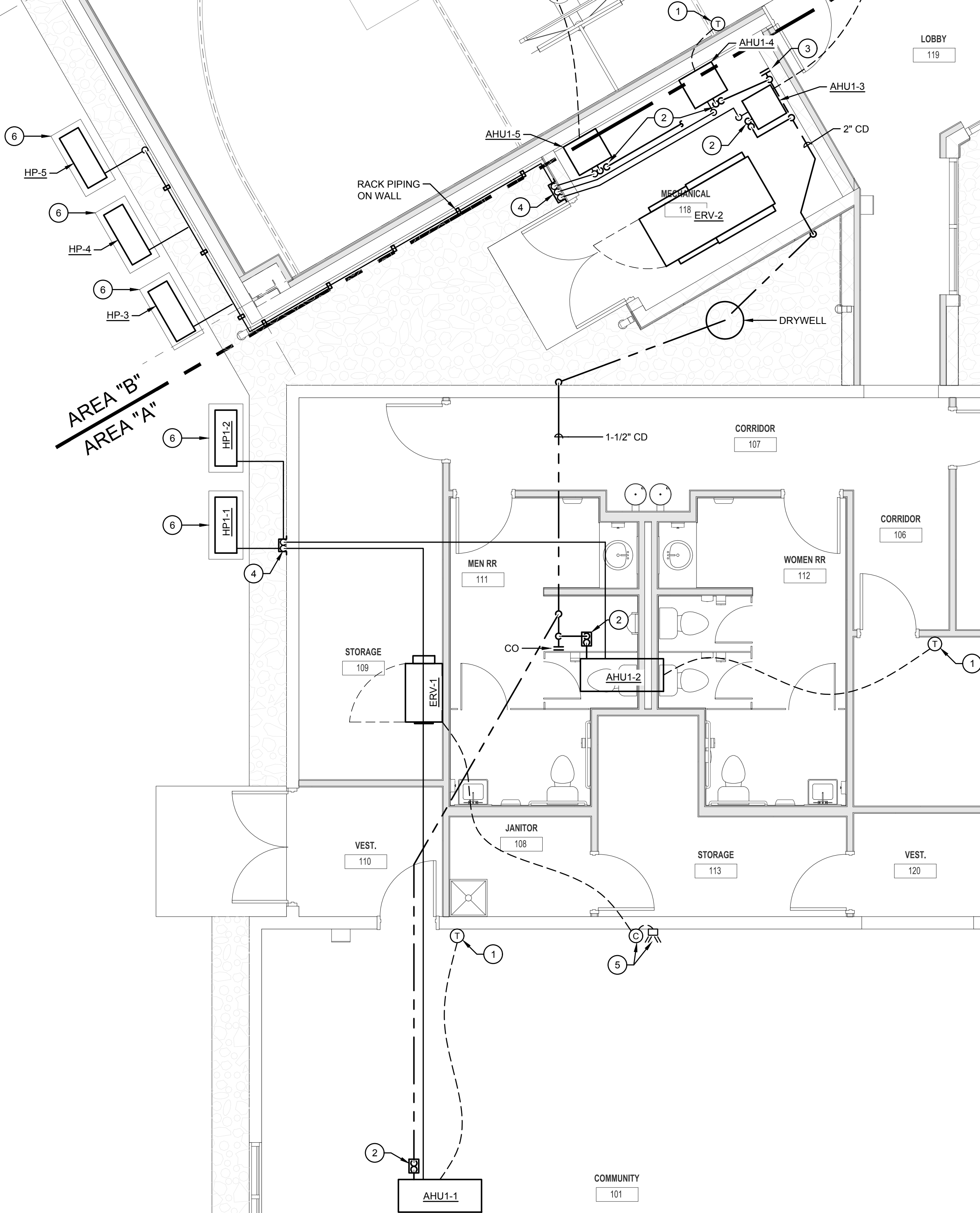
FLOOR PLAN - AREA A -
RENOVATION - PIPING

Tallahassee Florida

M2.1

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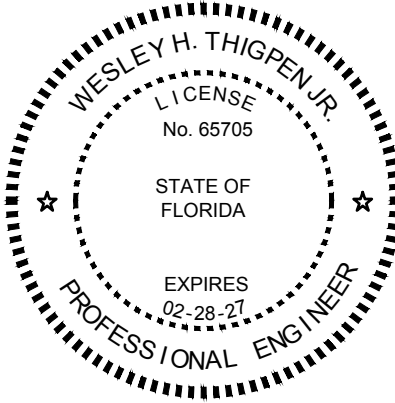
SHEET RENOVATION KEY NOTES:	
1	THERMOSTAT, MOUNTED MINIMUM 60" AFF. PROVIDE A LOCKED, VENTED, PROTECTIVE COVER FOR THERMOSTAT TO PROTECT FROM DAMAGE. REFER TO CONTROLS FOR FURTHER INFORMATION.
2	PROVIDE FULL LINE SIZE CONDENSATE WITH P-TRAP AND ROUTE CONDENSATE PUMP, ROUTE PUMPED CONDENSATE TO CONDENSATE MAIN. INSULATE CONDENSATE FROM UNIT TO PUMP AND INSULATE PUMPED CONDENSATE FROM PUMP TO CONDENSATE MAIN PER SPECIFICATIONS.
3	PROVIDE 2" CONDENSATE MAIN WITH CLEANOUT. INSULATE CONDENSATE MAIN PER SPECIFICATIONS. ROUTE THROUGH EXTERIOR OF BUILDING AND TERMINATE WITH A 90° ELBOW AT DRYWELL. ENSURE ROUTING OF CONDENSATE DOES NOT OBSTRUCT ANY WALKWAYS OR IS A TRIPPING HAZARD.
4	PROVIDE PAINTABLE WALL COVER FOR THE EXTERIOR PIPING ROUTED DOWN THE WALL. REFER TO DETAILS FOR FURTHER INFORMATION.
5	PROVIDE A LOCKED, VENTED, PROTECTIVE COVER FOR CO2 SENSOR.
6	PROVIDE A CONCRETE HOUSEKEEPING PAD, 6" LARGER THAN FOOTPRINT OF THE UNIT AND MINIMUM 6" TALL. REFER TO DETAILS FOR FURTHER INFORMATION.





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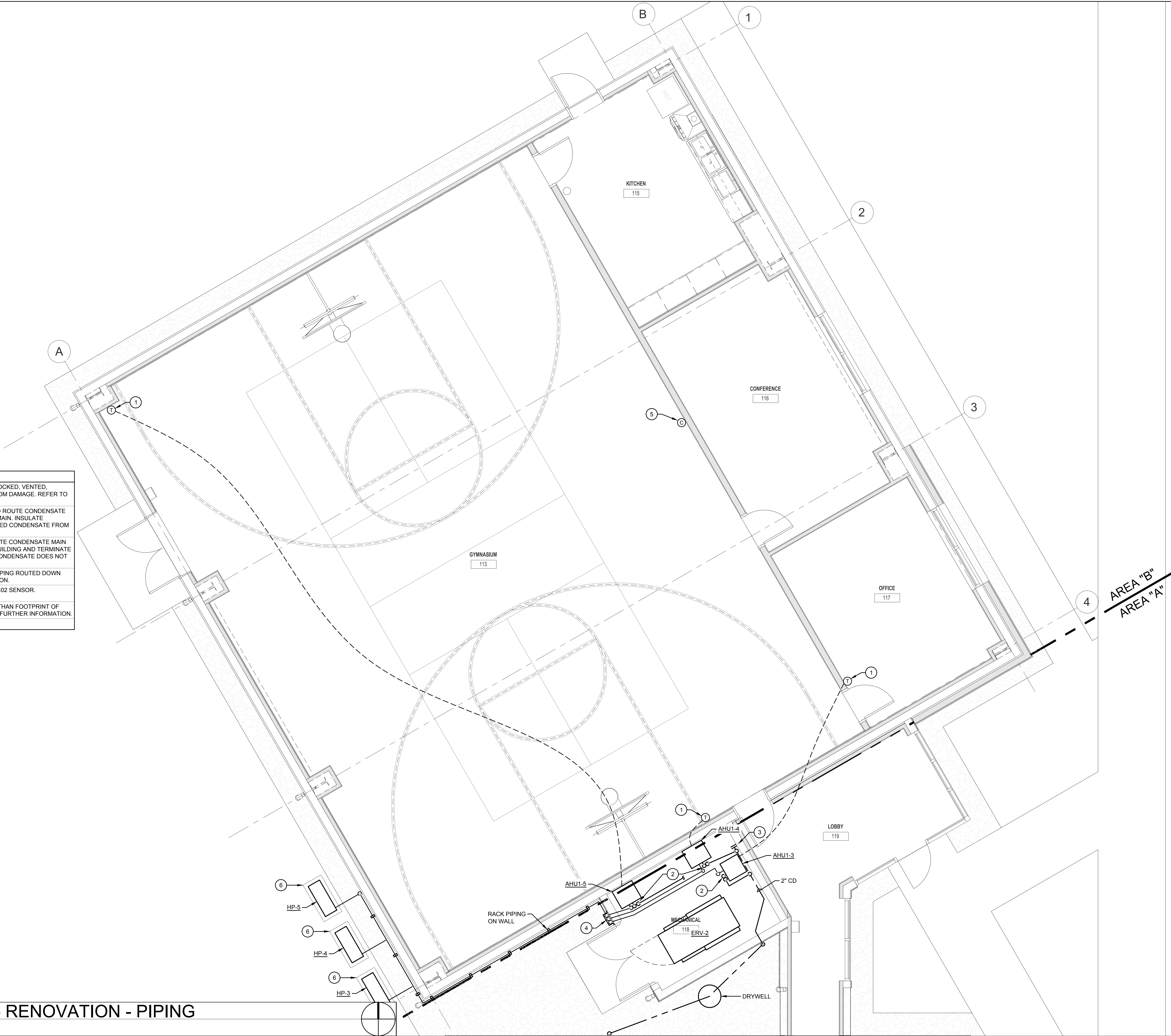
FLOOR PLAN - AREA B -
RENOVATION - PIPING

Tallahassee Florida

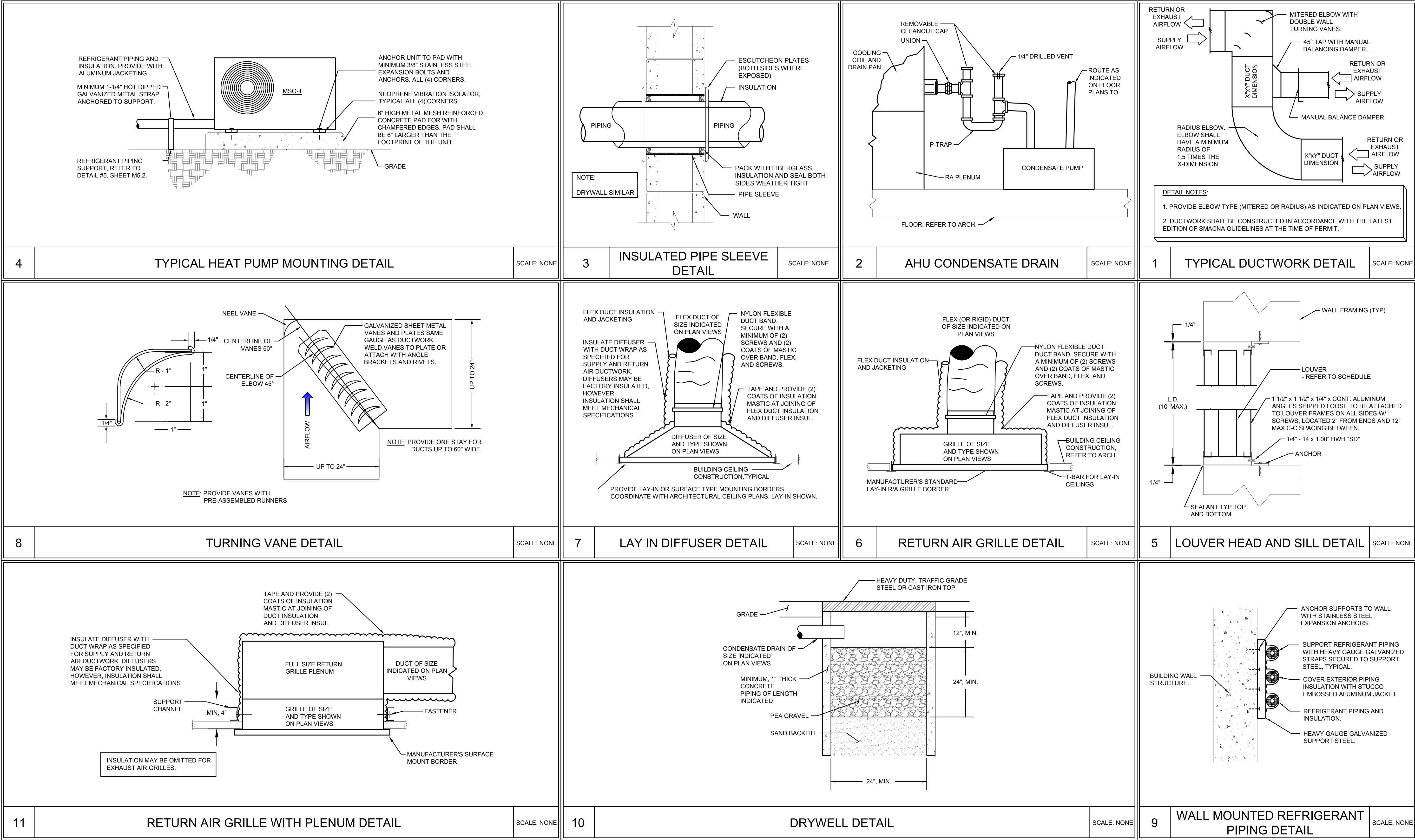
M2.2

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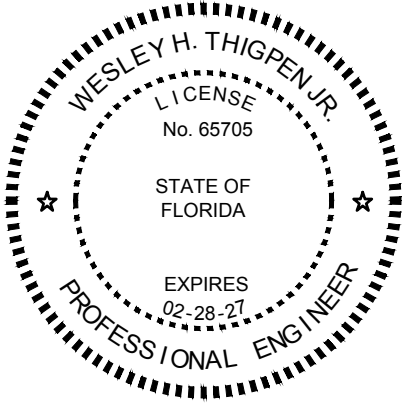


1 FLOOR PLAN - AREA B - RENOVATION - PIPING
M2.2 1/4" = 1'-0"



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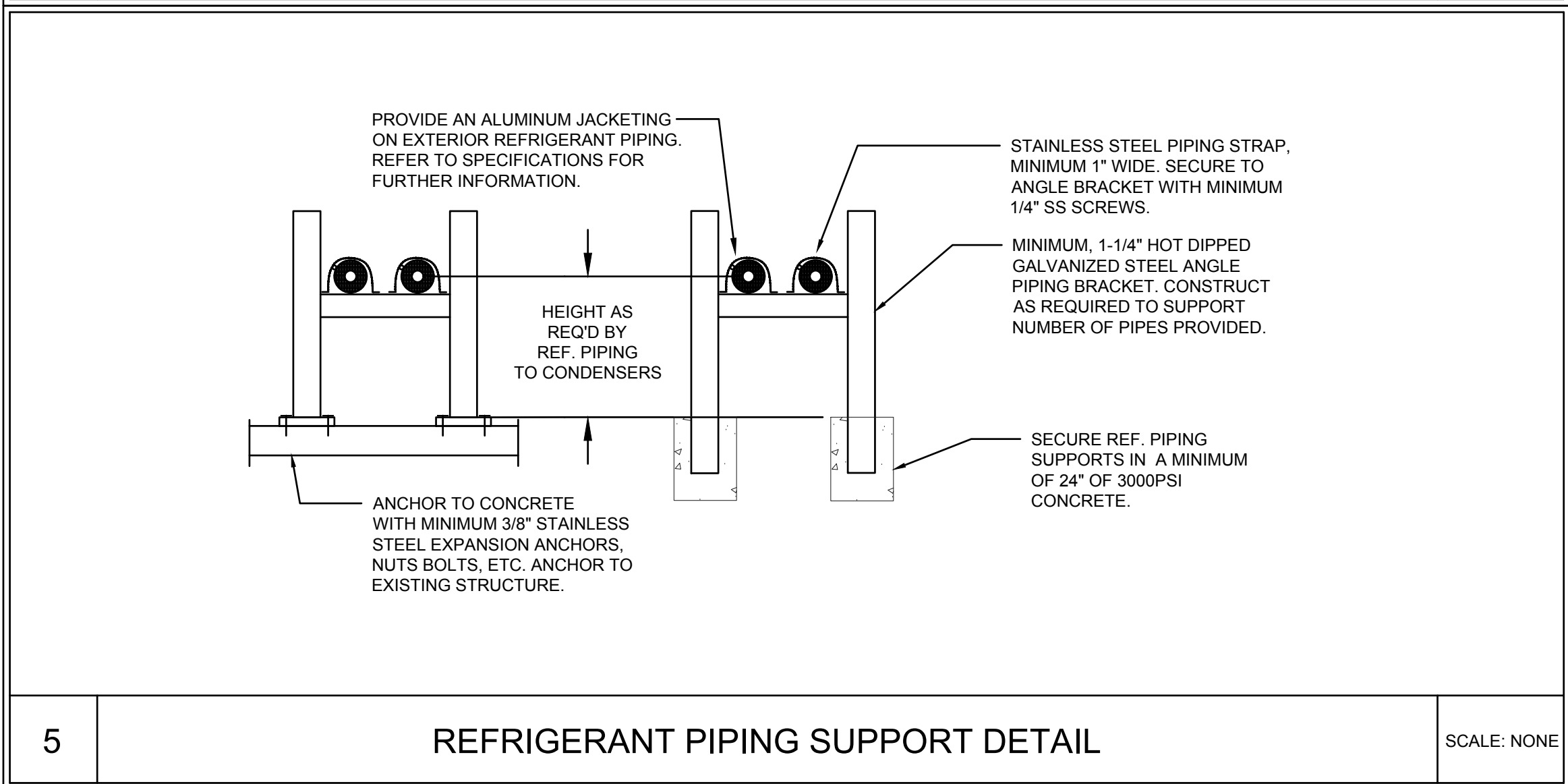
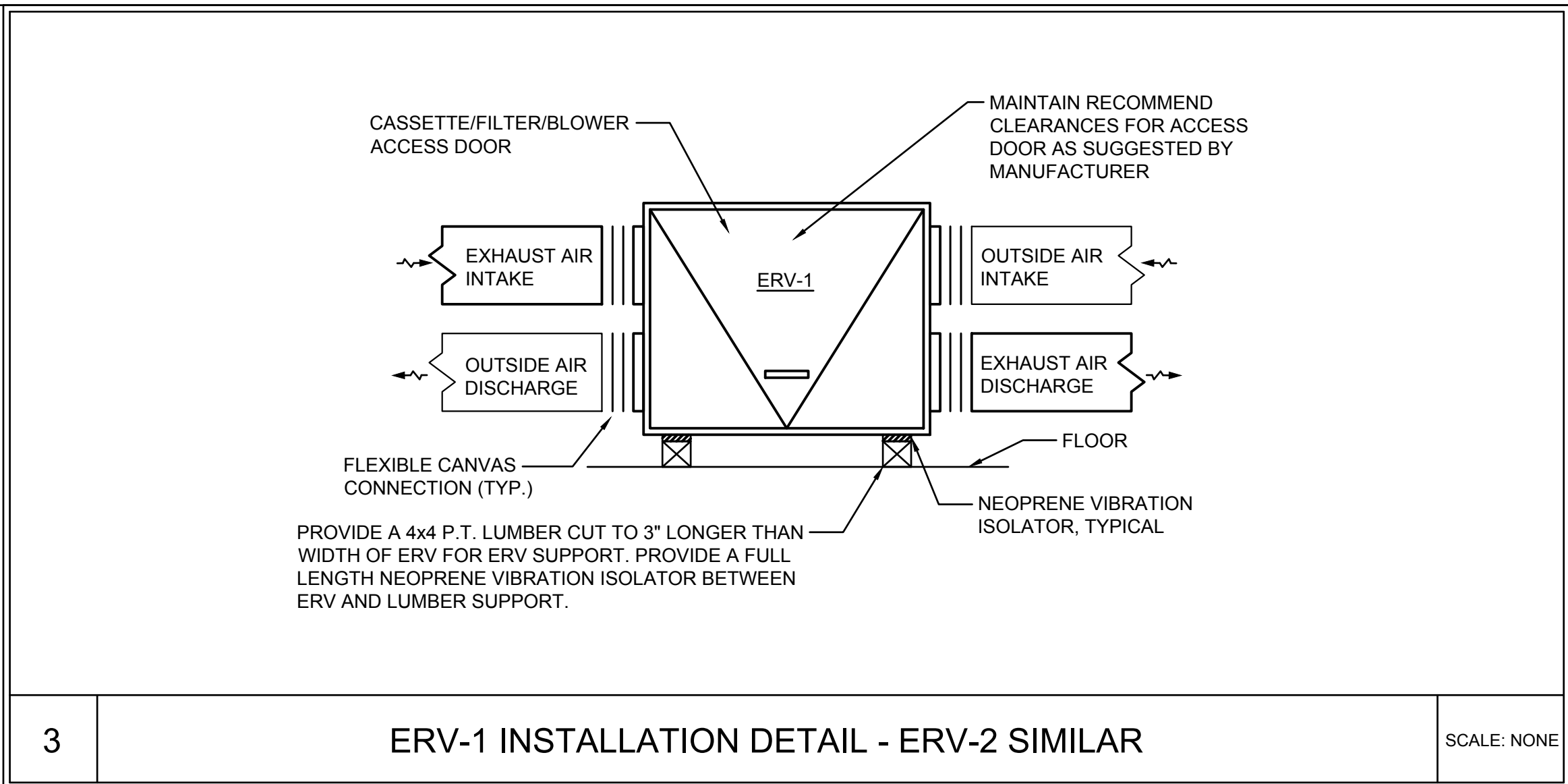
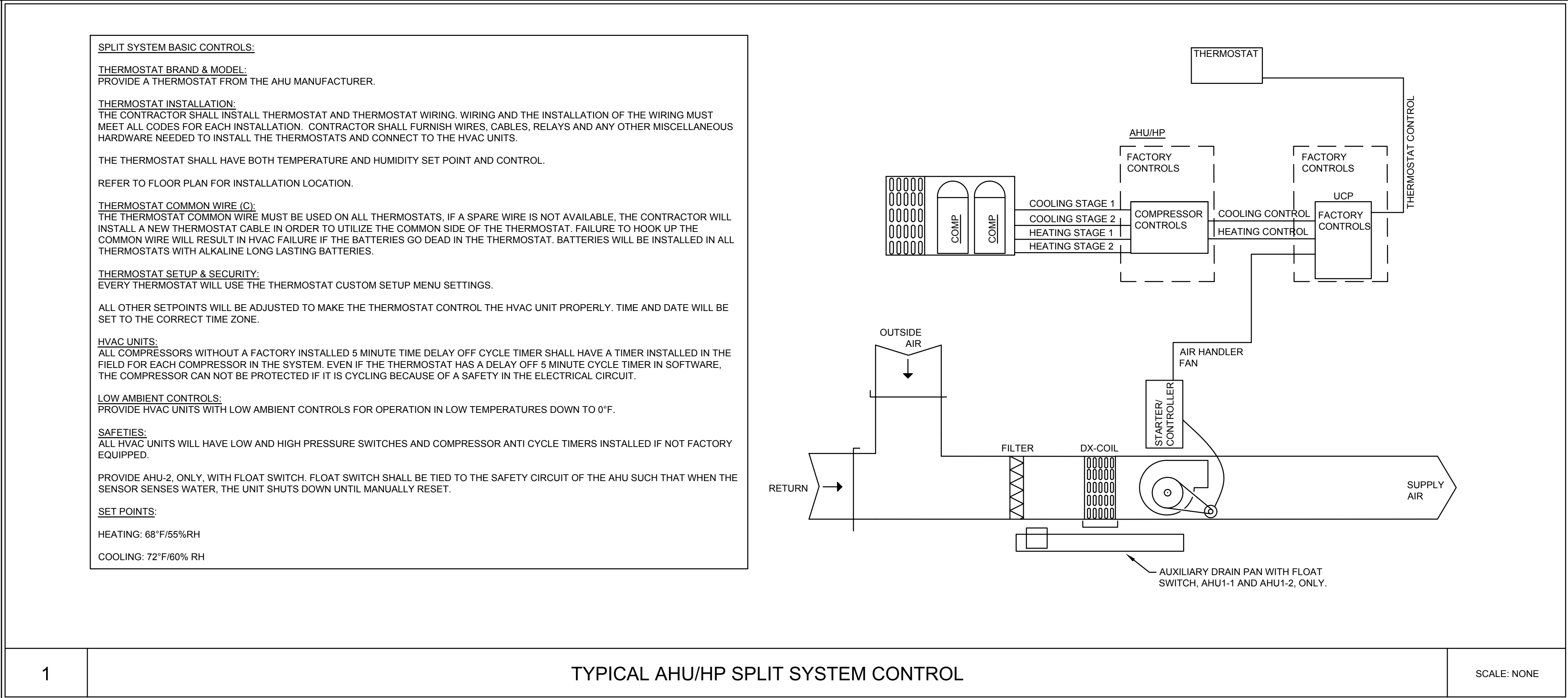
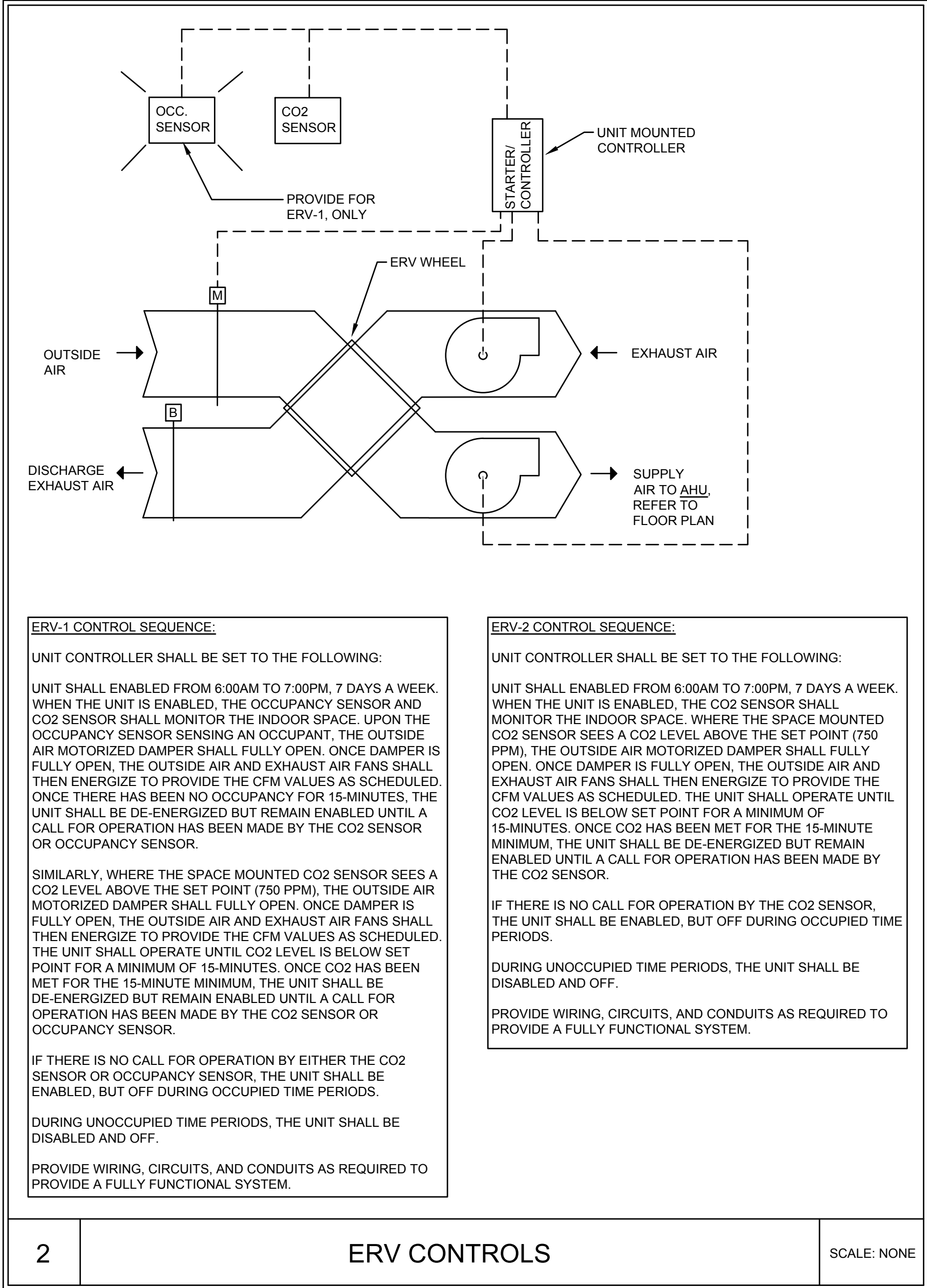
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DETAILS - MECHANICAL

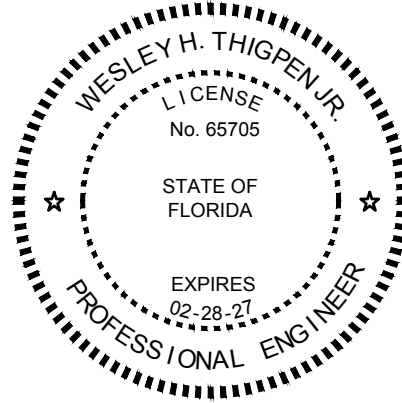
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DETAILS - MECHANICAL

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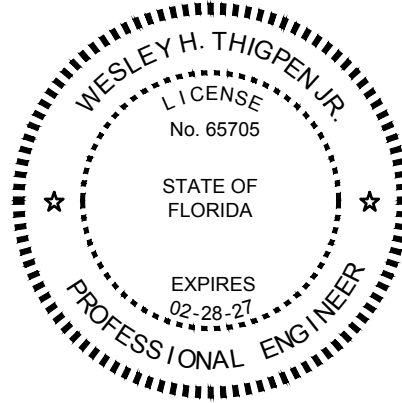
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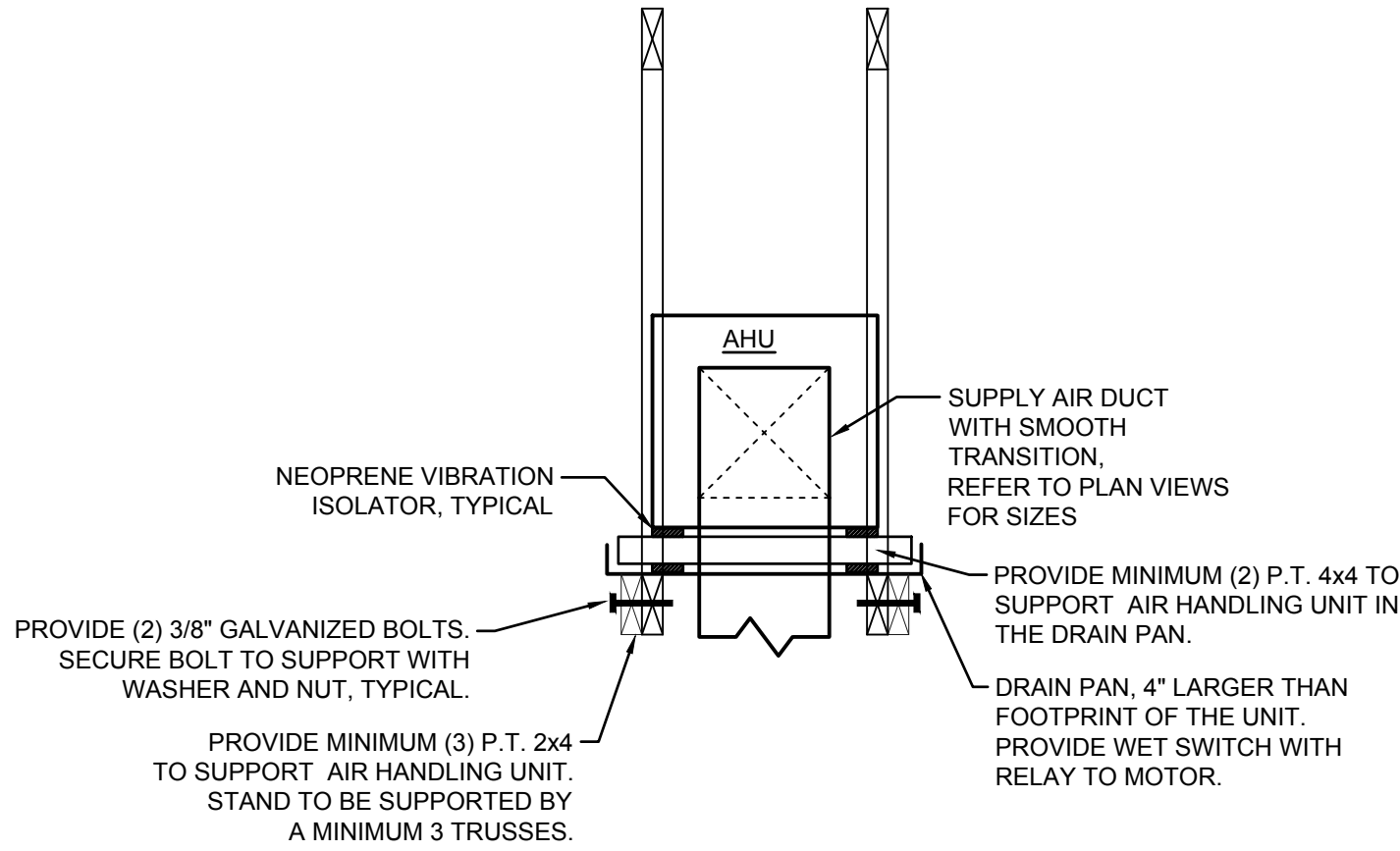


DETAILS - MECHANICAL

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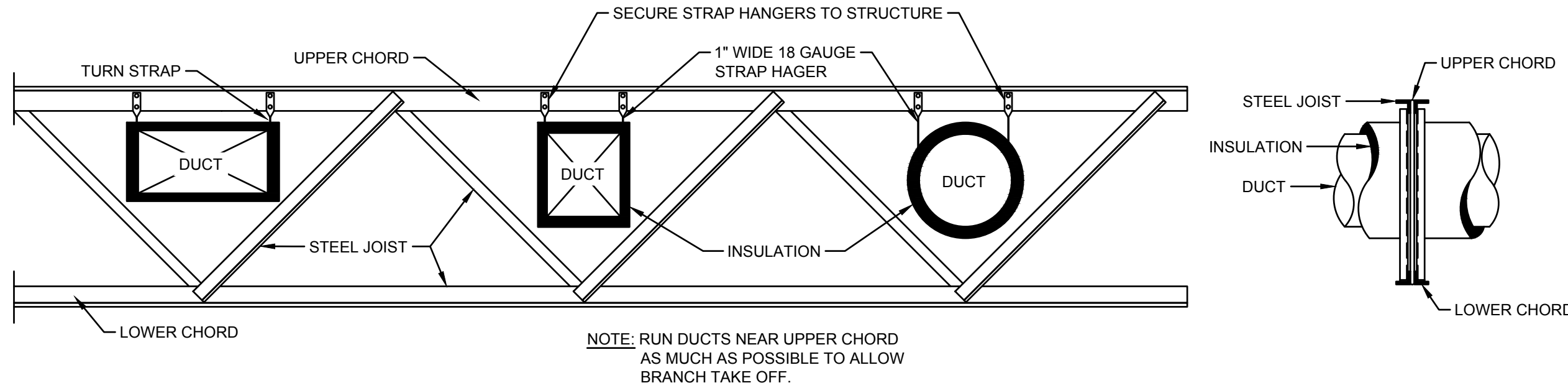
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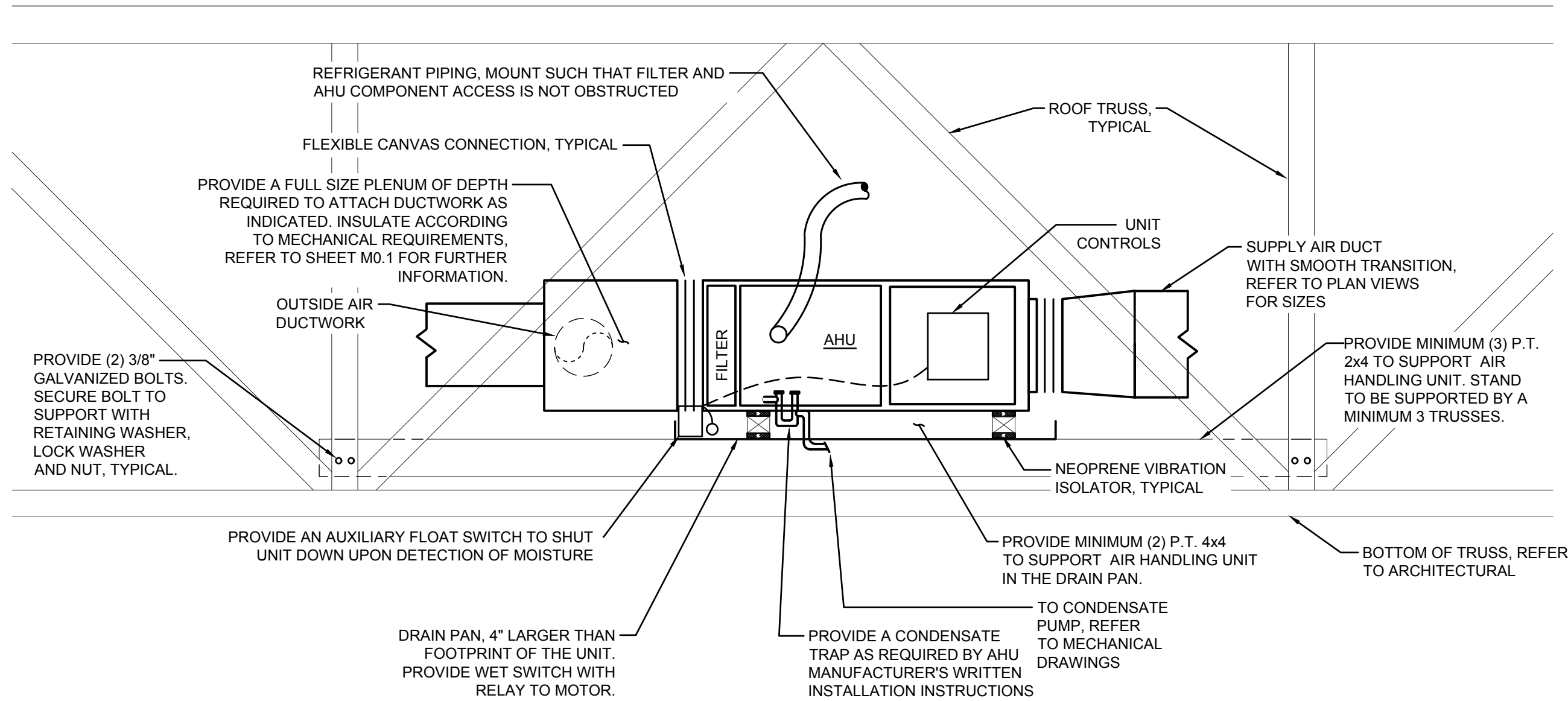
2 EAST VIEW AHU1-2 IN ATTIC DETAIL

SCALE: NONE



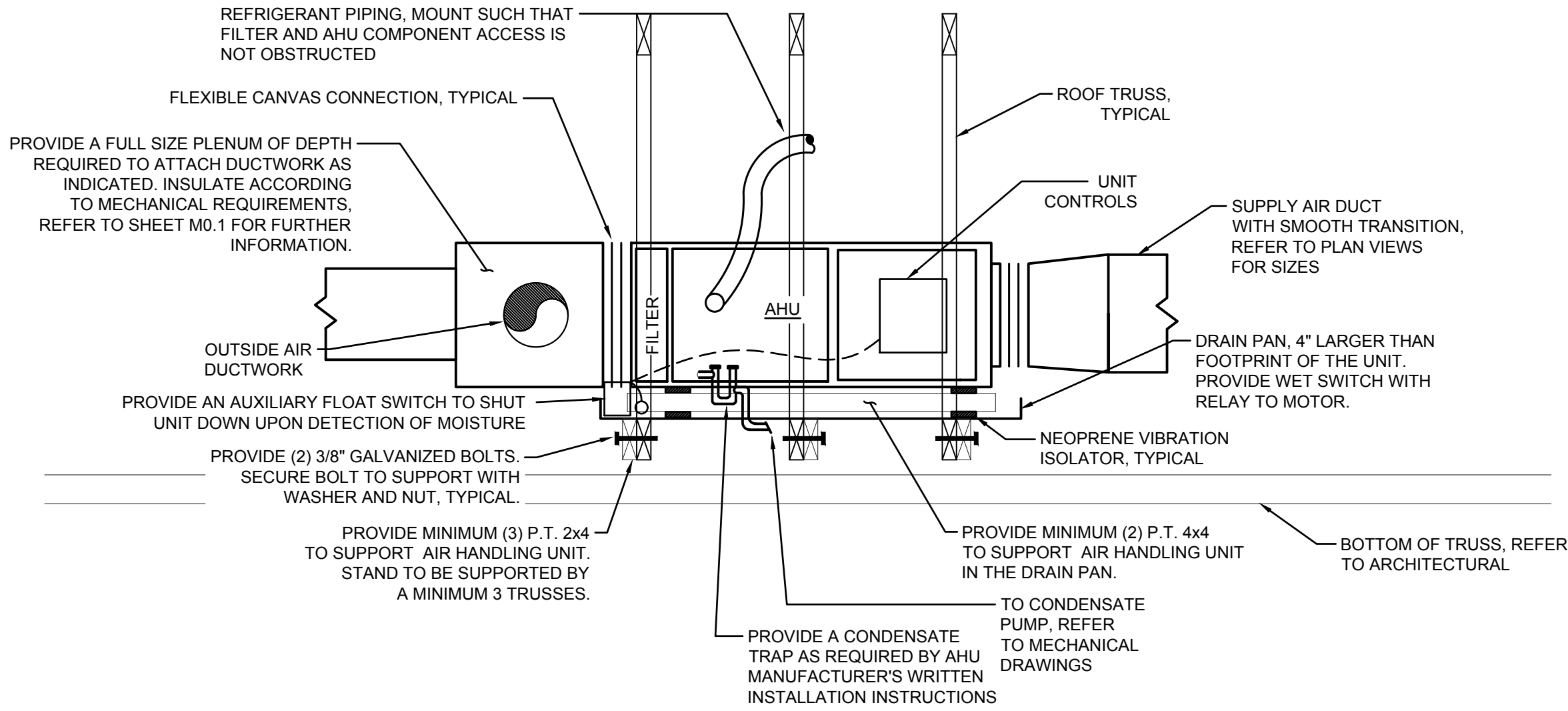
1 TYPICAL SECTION THRU LONG SPAN TYPE JOISTS
DETAIL

SCALE: NONE



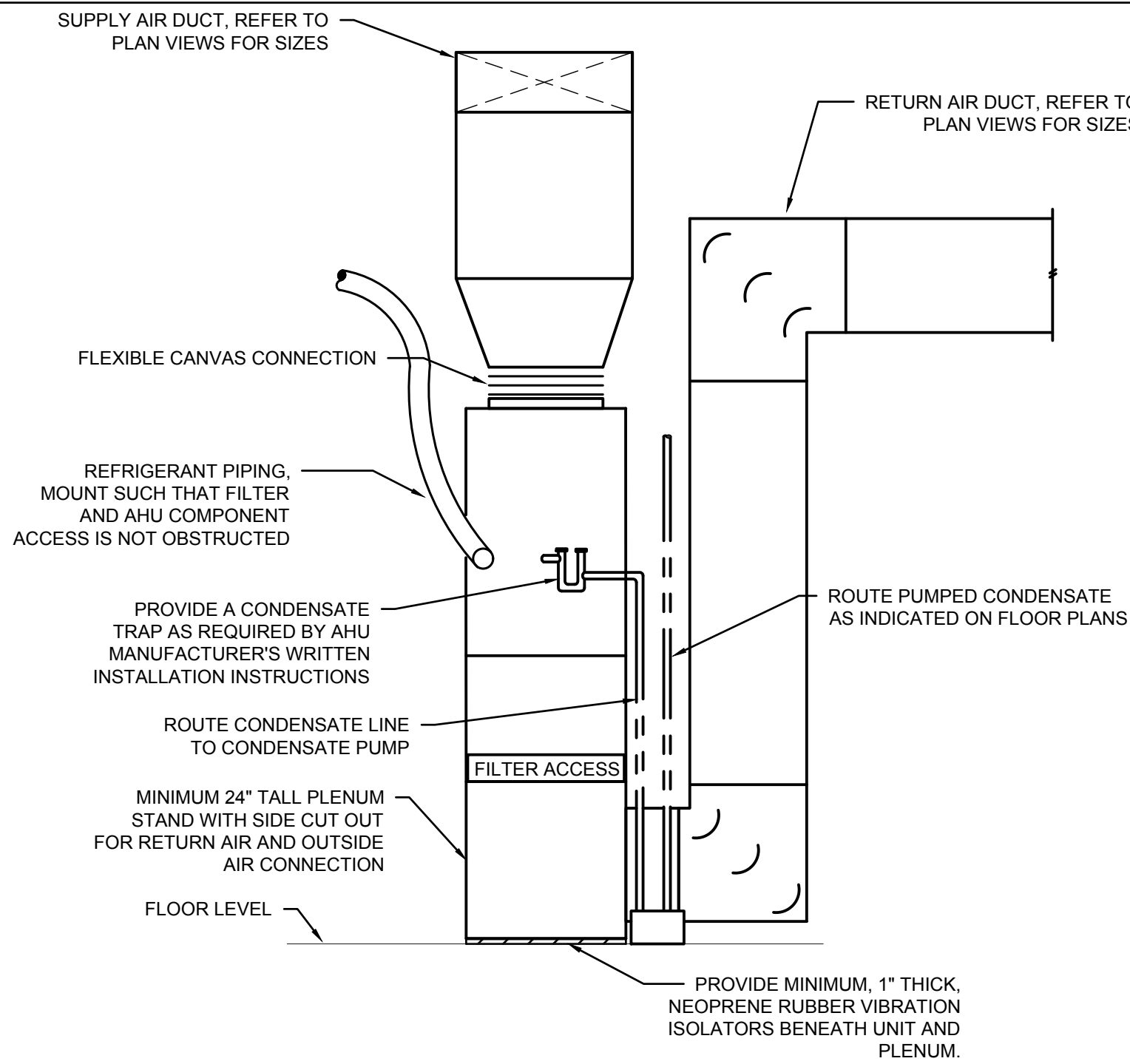
4 NORTH VIEW AHU1-2 IN ATTIC DETAIL

SCALE: NONE



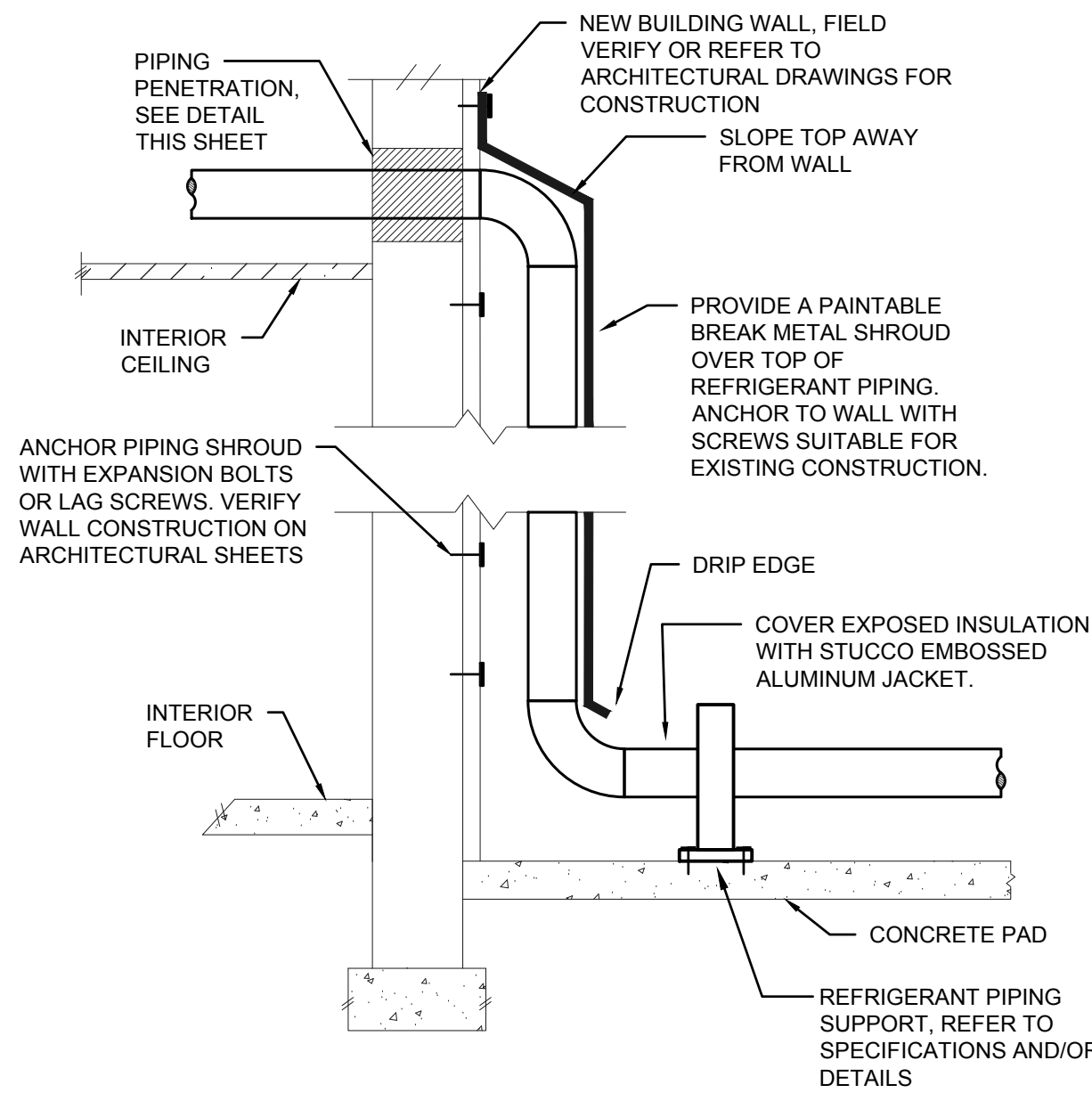
3 NORTH VIEW AHU1-1 IN ATTIC DETAIL

SCALE: NONE



6 TYPICAL AIR HANDLING UNIT DETAIL

SCALE: NONE



5 PIPING SHROUD DETAIL

SCALE: NONE

ENERGY RECOVERY VENTILATOR SCHEDULE

EQUIPMENT NO.	MODEL NO.	OUTSIDE AIR (CFM)	OUTDOOR AIR TEMPERATURE (DB/WB) °F	EXHAUST AIR (CFM)	EXHAUST AIR TEMPERATURE (DB/WB) °F	EXHAUST SP (IN. W.G.)	SUPPLY SP (IN. W.G.)	SUMMER SUPPLY CONDITIONS	ERV EFF. SENSIBLE	ERV EFF. TOTAL	FLA (EA)	MCA	MOCP	OA MOTOR HP (WATT)	EXH MOTOR HP (WATT)	VOLTS/ PHASE
ERV-1	HE-10IN	690	95°F / 78°F	690	72.0°F / 62.5°F	1.75"	1.75"	79°F / 68.4°F	69.4%	58.1%	1.73 (2)	3.9	15	370 W	370 W	208-230/1Ø
ERV-2	HE-4XINV	3605	95°F / 78°F	3405	72.0°F / 62.5°F	0.75"	0.75"	80.1°F / 69.4°F	64.5%	52.2%	14.0 (2)	32.9	45	3 HP	3 HP	208-230/1Ø

- NOTES:
- BASIS OF DESIGN: RENEWAIRE, OR EQUAL.
 - PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION.
 - PROVIDE UNIT WITH 30% EFF. MERV 8 FILTERS ON BOTH EXHAUST AND OUTSIDE AIR STREAMS.
 - PROVIDE DISCONNECT FOR EQUIPMENT AS REQUIRED BY EQUIPMENT MANUFACTURER.
 - PROVIDE UNIT WITH THE FOLLOWING: UNIT MOUNTED CONTROLLER WITH INTEGRAL OCCUPIED/UNOCCUPIED TIMECLOCK, WALL MOUNTED CO2 SENSOR, WALL MOUNTED OCCUPANCY SENSOR (ERV-1 ONLY), MOTORIZED OUTSIDE AIR DAMPER, AND GRAVITY EXHAUST AIR BACK DRAFT DAMPER. PROVIDE INSTRUCTION ON ERV OPERATION AND MAINTENANCE TO OWNER. PROVIDE TIME SCHEDULE PER OWNER'S REQUIREMENTS.

DIFFUSER SCHEDULE

PLAN MARK	CFM	NECK SIZE	DESCRIPTION
A	0-100	6"Ø	MULTIPLE CONE, SQUARE, HIGH CAPACITY, ROUND INLET (OF SIZE INDICATED) ALUMINUM CONSTRUCTION WITH ADJUSTABLE DISCHARGE. PROVIDE THROW PATTERN AS INDICATED. WHERE NO THROW PATTERN IS INDICATED, PROVIDE 4-WAY THROW.
	101-245	8"Ø	
	246-350	10"Ø	
	351-500	12"Ø	
B	501-900	14"Ø	ALL ALUMINUM CONSTRUCTION RETURN AIR GRILLE, WITH LOUVERED FACE AND 3/4" BLADE SPACING ON 45° ANGLE. PROVIDE LAY-IN TYPE BORDER WHERE LOCATED IN LAY-IN TYPE CEILINGS. PROVIDE WITH SURFACE MOUNTED BORDER WHERE LOCATED IN GYPSUM CEILINGS OR ON WALLS.
C	REFER TO PLAN VIEWS FOR CFM AND SIZES		HEAVY DUTY STEEL GYM RETURN GRILLE WITH 45° BLADES AT 1/2" SPACING. PROVIDE WITH SURFACE MOUNTED BORDER WHERE LOCATED IN WALLS. GRILLE TO BE SIMILAR TO PRICE 93. GRILLE COLOR TO BE WHITE.
D	REFER TO PLAN VIEWS FOR CFM AND SIZES		HEAVY DUTY STEEL GYM SUPPLY GRILLE WITH DOUBLE DEFLECTION BLADES AT 1/2" SPACING. PROVIDE WITH SURFACE MOUNTED BORDER WHERE LOCATED IN WALLS. GRILLE TO BE SIMILAR TO PRICE 920. GRILLE COLOR TO BE WHITE.

- NOTES:
- DIFFUSERS CONNECTED TO EXPOSED DUCTWORK IN DINING AREAS SHALL BE MILL FINISH. LAY-IN AND WALL MOUNTED DIFFUSERS AND GRILLES SHALL BE WHITE.
 - WHERE REQUIRED BY GYPSUM CEILINGS, PROVIDE WITH PLASTER RINGS OR OTHER APPURTENANCES AS REQUIRED.
 - INTERIORS OF DIFFUSERS AND GRILLES VISIBLE FROM THE FINISHED SPACE SHALL BE PAINTED FLAT BLACK.
 - WHERE DIFFUSERS/GRILLES AND SHOWN IN GYPSUM CEILINGS AND MANUAL DAMPERS IN DUCT ARE NOT READILY ACCESSIBLE, PROVIDE VOLUME DAMPERS AT FACE OF DIFFUSER/GRILLE.

SPLIT SYSTEM HEAT PUMP SCHEDULE

EQUIPMENT NO.	MODEL NO.	AHU NO.	NOMINAL TONNAGE	REFRIG. TYPE	AMBIENT DESIGN TEMP.	RATED TOTAL COOLING CAPACITY (AHRI)	RATED TOTAL HEATING CAPACITY (AHRI)	NO. OF COMP.	# OF REFRIG. CIRCUITS	SEER2	HSPF2	MCA	MOCP	VOLTAGE / PHASE
HP1-1	KUSXB601A	AHU1-1	5.0	R-32	95°F	52.5 MBH	56.5 MBH	1	1	17.5	9.4	32.0	40	208/230/1Ø
HP1-2	KUSXB241A	AHU1-2	2.0	R-32	95°F	23.2 MBH	27.0 MBH	1	1	17.5	9.7	16.0	30	208/230/1Ø
HP1-3	KUSXB481A	AHU1-3	4.0	R-32	95°F	45.5 MBH	50.0 MBH	1	1	18.0	9.4	32.0	40	208/230/1Ø
HP1-4	KUSXB601A	AHU1-4	5.0	R-32	95°F	52.5 MBH	56.5 MBH	1	1	17.5	9.4	32.0	40	208/230/1Ø
HP1-5	KUSXB601A	AHU1-5	5.0	R-32	95°F	52.5 MBH	56.5 MBH	1	1	17.5	9.4	32.0	40	208/230/1Ø

- NOTES:
- BASIS OF DESIGN: LG, OR EQUAL.
 - PROVIDE UNIT WITH MINIMUM 3-YEAR WARRANTY ON COIL AND COMPRESSOR. WARRANTY SHALL COVER PARTS AND LABOR.
 - PROVIDE REFRIGERANT LINE SIZES AS DETERMINED BY EQUIPMENT MANUFACTURER. SIZES SHALL BE BASED ON LENGTHS OF RUN AND VERTICAL LIFT. PROVIDE WITH LONG RADIUS BENDS IN LIEU OF LONG AND SHORT RADIUS ELBOWS.
 - PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION, EXTERNALLY MOUNTED, FIELD PLACED DISCONNECT IN NEMA 3R ENCLOSURE REFER TO ELECTRICAL DRAWINGS. PROVIDE ALL CONTROLS REQUIRED FOR A FULLY FUNCTIONAL AIR CONDITIONING SYSTEM.
 - PROVIDE HEAT PUMPS WITH MANUFACTURER'S STANDARD LOW AMBIENT HEAD PRESSURE CONTROLLER AND ASSOCIATED APPURTENANCES FOR COOLING DOWN TO 0°F.
 - PROVIDE UNITS WITH HIGH PRESSURE SWITCHES, LOW PRESSURE SWITCHES, ANTI SHORT CYCLE TIME DELAYS, AND HARD START KITS.
 - PROVIDE HEAT PUMP WITH INVERTER COMPRESSOR, CAPABLE OF VARIABLE COOLING STAGES, AND FOUR-WAY REVERSING VALVE.

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

EQUIPMENT NO.	MODEL NO.	HP NO.	NOMINAL TONNAGE	TOTAL CFM	OUTSIDE AIR CFM	EXT. STATIC	REFRIG. TYPE	COOLING COIL TOTAL COOLING	COOLING COIL SENSIBLE COOLING	COOLING ENT. AIR DB/WB	COOLING LVG. AIR DB/WB	HEATING CAPACITY	BLOWER MOTOR HP (WATT)	MCA	MOCP	VOLTAGE/ PHASE
AHU1-1	KNSLB601A	HP1-1	5.0	1950	640	1.0"	R-32	60.5 MBH	42.4 MBH	75°F / 63°F	55°F / 54.9°F	45.5 MBH	684 W	7.88	15	208/230/1Ø
AHU1-2	KNSLB241A	HP1-2	2.0	800	50	1.0"	R-32	30.0 MBH	21.0 MBH	75°F / 63°F	55°F / 54.9°F	22.0 MBH	250 W	3.5	15	208/230/1Ø
AHU1-3	KNSLB481A	HP1-3	4.0	1600	125	1.0"	R-32	53.0 MBH	37.1 MBH	75°F / 63°F	55°F / 54.9°F	38.5 MBH	400 W	4.25	15	208/230/1Ø
AHU1-4	KNSLB601A	HP1-4	5.0	1950	NOTE #8	1.0"	R-32	60.5 MBH	42.4 MBH	75°F / 63°F	55°F / 54.9°F	45.5 MBH	684 W	7.88	15	208/230/1Ø
AHU1-5	KNSLB601A	HP1-5	5.0	1950	NOTE #8	1.0"	R-32	60.5 MBH	42.4 MBH	75°F / 63°F	55°F / 54.9°F	45.5 MBH	684 W	7.88	15	208/230/1Ø

- NOTES:
- BASIS OF DESIGN: LG, OR EQUAL. PROVIDE AHU'S WITH 115V, LITTLE GIANT MODEL VCL-45ULS HIGH CAPACITY CONDENSATE PUMP OR EQUAL WITH POWER CORD.
 - PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION, EXTERNALLY MOUNTED, FIELD PLACED DISCONNECT AND ALL CONTROLS REQUIRED FOR A FULLY FUNCTIONAL AIR CONDITIONING SYSTEM. WHERE ELECTRICAL CHARACTERISTICS ARE MARKED AS "NA" ELECTRICAL POWER IS SERVED FROM OUTDOOR UNIT. REFER TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
 - PROVIDE AIR HANDLERS WITH MERV-8 AIR FILTERS.
 - EVAPORATOR COIL SHALL HAVE A MINIMUM 5- YEAR WARRANTY FROM UNIT MANUFACTURER. ENTIRE UNIT INCLUDING ALL PARTS AND LABOR SHALL HAVE A MINIMUM 1-YEAR WARRANTY. EVAPORATOR SHALL BE DUAL CIRCUITED WITH INTERTWINED CIRCUITS TO COILS. HEATING PERFORMANCE IS BASED ON A MINIMUM OUTDOOR AIR TEMPERATURE OF 5°F WITH AN INDOOR TEMPERATURE OF 70°F.
 - PROVIDE THERMOSTAT WITH 7-DAY PROGRAMMABLE THERMOSTAT. UNIT SHALL HAVE BOTH COOLING AND RELATIVE HUMIDITY SET POINT AND CONTROL. FOR INITIAL SETUP USE THE FOLLOWING VALUES: COOLING 75°F; HEATING 70°F; HUMIDITY 55% (MAX).
 - PROVIDE WITH THERMOSTATIC EXPANSION VALVES SET TO A MAXIMUM OF 40°F SUCTION TEMPERATURE.
 - PROVIDE UNITS WITH VARIABLE SPEED DIRECT DRIVE BLOWER MOTORS.
 - FRESH AIR FOR AHU1-4 AND AHU1-5 IS BEING PROVIDED THRU ERV-2, WHICH, IS CONNECTED DIRECTLY TO THE GYMNASIUM. REFER TO FLOOR PLANS FOR FURTHER INFORMATION.

LOUVER SCHEDULE

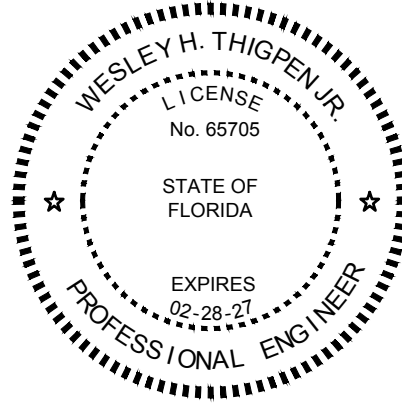
EQUIPMENT NO.	MODEL NO.	CFM	SIZE	% FREE AREA	VELOCITY	STATIC PRESS. LOSS	NOA # FLPA#	MATERIAL	FINISH	INTAKE OR EXHAUST
OAL-1	EME6325D	690	24x24	26%	663	0.03"	12-0628.05 FL-14156.1	ALUMINUM	MILL	INTAKE
OAL-2	EME6325D	7210	72x72	39%	514	0.02"	12-0628.05 FL-14156.1	ALUMINUM	MILL	INTAKE
EAL-1	EME6325D	690	24x24	26%	663	0.03"	12-0628.05 FL-14156.1	ALUMINUM	MILL	EXHAUST

- NOTES:
- BASIS OF DESIGN: RUSKIN, OR EQUAL
 - LOUVER FINISH COLOR SHALL BE MILL FINISH UNLESS REQUIRED OTHERWISE BY OWNER. VERIFY WITH OWNER PRIOR TO PURCHASING AND/OR INSTALLING.
 - FINAL DIMENSIONS OF LOUVERS SHALL BE FIELD VERIFIED PRIOR TO PROCUREMENT AND/OR INSTALLATION OF LOUVERS. FAILURE TO DO SO SHALL BE THE BURDEN OF THE INSTALLING CONTRACTOR.
 - NOA: NOTICE OF ACCEPTANCE. FLPA: FLORIDA PRODUCT APPROVAL.
 - PROVIDE FRONT FLANGES FOR FINISHED APPEARANCE ON EXTERIOR OF BUILDING.
 - PROVIDE INTAKE LOUVERS WITH FILTER RACK ON BACK SIDE OF LOUVER FOR INSTALLATION OF 1" OR 2" MERV 7 LOW EFFICIENCY FILTERS. PROVIDE WITH INTEGRAL ACCESS DOOR AND GASKETS FOR DOOR AND FILTERS TO MINIMIZE LEAKAGE. WHERE MULTIPLE FILTER SIZES ARE REQUIRED, PROVIDE A MAXIMUM OF (2) DIFFERENT SIZES OF STANDARD FILTER DIMENSIONS FOR EASILY SOURCED FILTERS. PROVIDE FILTERS WITH FILTER RACK AND PROVIDE (1) SET OF SPARE FILTERS FOR OWNER ATTIC STOCK.



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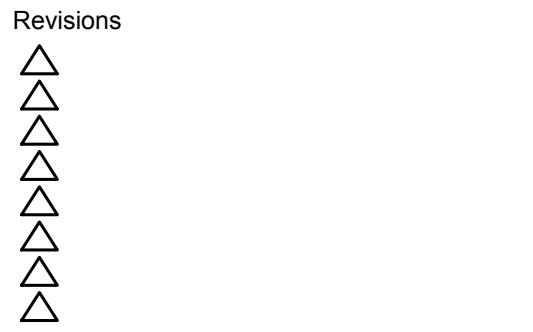
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Tallahassee Florida

M6.1

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