



Design - Build Contractor

230 West 5th Street
Panama City, FL 32401
(850) 215-5540

LYNN HAVEN
METHODIST CHURCH
3203 MINNESOTA AVENUE
LYNN HAVEN, FL 32444

REVISION		
#	DESCRIPTION	DATE

Designed By:
S.DAY

Drawn By:
S.DAY

HVAC
LEGEND,
NOTES, AND
DETAILS

M1-0

03/10/2025 10:00:00 AM

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HVAC LEGEND

- EX. 10"x8"
- 10"x8"
- 10"x8"
- 10"x8"
- 10"x8"
- 10"x8"
- 10"x8"
- 8"
- RECTANGULAR BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. TAKEOFF SHALL BE MADE WITH A 45 DEGREE COLLAR.
- ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. BRANCH DUCT SHALL BE FLEXIBLE ROUND DUCT OR ROUND METAL "SNAPLOCK" DUCT AS INDICATED. ROUND DUCT TAP-IN SHALL BE MADE WITH 45 DEGREE SIDE TAKEOFF FITTING WITH MANUAL VOLUME DAMPER. SEE "ROUND DUCT TAP-IN MOUNTING DETAIL" ON THIS SHEET.
- MVD
- ACD
- RECTANGULAR TO ROUND DUCT TRANSITION.
- RECTANGULAR SUPPLY OR OUTSIDE AIR DUCTWORK IN SECTION.
- RECTANGULAR RETURN OR EXHAUST AIR DUCTWORK IN SECTION.
- CEILING DIFFUSER. LOUVERED FACE. AIR FLOW AS INDICATED. SQUARE FACE DIMENSIONS AND ROUND NECK SIZE AS INDICATED IN 'AIR DEVICE SCHEDULE' ON SHEET M201. DIRECTION OF THROW AS INDICATED BY ARROWS. CONSTRUCTED FROM ALUMINUM. TITUS MODEL IMS-AA OR APPROVED EQUIVALENT. SEE 'SQUARE CEILING DIFFUSER MOUNTING DETAIL' ON THIS SHEET.
- CEILING REGISTER. CURVED BLADE. AIR FLOW AS INDICATED. RECTANGULAR NECK SIZE AS INDICATED IN 'AIR DEVICE SCHEDULE' ON SHEET M201. DIRECTION OF FLOW AS INDICATED BY ARROWS. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER OPERABLE FROM THE FACE OF THE REGISTER. TITUS MODEL 250 OR APPROVED EQUIVALENT.
- RETURN GRILLE. EGG CRATE FACE WITH 1/2"x1/2"x1/2" ALUMINUM CORE. AIR FLOW AS INDICATED. RECTANGULAR NECK SIZE AS INDICATED IN 'AIR DEVICE SCHEDULE' ON SHEET M201. TITUS MODEL 50F OR APPROVED EQUIVALENT.
- OUTSIDE AIR LOUVER. WIND-DRIVEN RAIN RESISTANT, WITH FLORIDA PRODUCT APPROVAL NUMBER. DRAINABLE EXTRUDED ALUMINUM STATIONARY BLADES POSITIONED VERTICALLY. RUSKIN MODEL EME2625DFL OR ENGINEER APPROVED EQUIVALENT. PROVIDE WITH BIRD SCREEN.
- UNDERCUT DOOR 1" TO ALLOW AIR FLOW IN THE DIRECTION INDICATED.
- SUPPLY AND OUTSIDE AIR FLOW.
- RETURN AND EXHAUST AIR FLOW.
- 1 OR P1
- EF-#
- AH-#
- HPU-#
- PHPU-#
- CONNECTION OF NEW TO EXISTING.
- EX.

GENERAL NOTES

- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
- ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING AND THE GENERAL CONTRACTORS IN THE FIELD.
- THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH PIECE OF EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. COORDINATE WITH THE ELECTRICAL AND GENERAL CONTRACTORS IN THE FIELD. COORDINATE THE EXACT LOCATION OF ALL OUTDOOR UNITS IN THE FIELD WITH THE OWNER AND ARCHITECT.
- PROVIDE WATER PROOF SEALING OF ALL PIPE AND DUCT PENETRATIONS OF EXTERIOR WALLS, FLOORS, AND/OR ROOF.
- ALL DUCTWORK AND PIPING PENETRATING FIRE RATED WALLS SHALL BE FIRE STOPPED. FIRE DAMPERS SHALL BE PROVIDED IN ALL DUCTWORK PENETRATIONS OF FIRE RATED WALLS AND FLOORS WHETHER INDICATED OR NOT.

DUCTWORK & INSULATION NOTES

- ALL SUPPLY, RETURN, OUTSIDE, AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE. RECTANGULAR OR ROUND GALVANIZED METAL AS INDICATED. SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS B, EXTERNALLY INSULATED WITH 2" THICK DUCT WRAP WITH A MINIMUM INSTALLED R-VALUE OF 6.0. EXHAUST AIR DUCTWORK MAY BE UNINSULATED.
- AT OWNERS DISCRETION, 1-1/2" THICK FIBROUS GLASS DUCTBOARD WITH A MINIMUM INSTALLED R-VALUE OF 6.0 MAY BE SUBSTITUTED FOR METAL SUPPLY AND RETURN AIR DUCTWORK ONLY (NOT OUTSIDE AIR DUCTWORK). DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. MASTICS SHALL BE PLACED OVER THE ENTIRE JOINT BETWEEN ALL MATED SURFACES. MASTICS SHALL NOT BE DILUTED. TWO 45 DEGREE ELBOWS MAY BE SUBSTITUTED FOR CURVED 90 DEGREE ELBOWS INDICATED. MITERED 90 DEGREE ELBOWS SHALL NOT BE USED FOR THESE FITTINGS. TWO 45 DEGREE ELBOWS MAY ALSO BE SUBSTITUTED FOR MITERED 90 DEGREE ELBOWS WITH TURNING VANES. IF 90 DEGREE MITERED ELBOWS ARE USED FOR THESE FITTINGS, THEY SHALL BE PROVIDED WITH TURNING VANES AS INDICATED. ALL METAL ROUND "SNAP-LOCK" DUCT AND SPIN-IN FITTINGS SHALL BE EXTERNALLY INSULATED WITH 2" THICK DUCT WRAP WITH A MINIMUM INSTALLED R-VALUE OF 6.0.
- DUCTWORK THAT IS EXPOSED TO WEATHER SHALL BE EXTERNALLY INSULATED METAL DUCT SAME AS DESCRIBED ABOVE WITH THE ADDITION OF THE FOLLOWING:
 - THE ENTIRE OUTER SURFACE OF THE INSULATION SHALL BE COVERED WITH TWO COATS OF WEATHER BARRIER MASTIC REINFORCED WITH FABRIC OR MESH DESIGNED FOR OUTDOOR APPLICATION. EACH COAT SHALL BE MINIMUM 1/16 INCH IN THICKNESS.
 - AFTER THE APPLICATION OF THE WEATHER BARRIER MASTIC, THE ENTIRE EXTERIOR SHALL BE COVERED WITH A MINIMUM 0.016 INCH THICK SMOOTH ALUMINUM JACKET. JACKET SHALL BE INSTALLED SO THAT THE LONGITUDINAL SEAMS ARE POSITIONED TO SHED WATER.
- AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. WHERE DUCTWORK MUST BE ROUTED OVER LIGHTS, MAINTAIN A 2" CLEARANCE BETWEEN DUCT INSULATION AND TOP OF LIGHTS.
- ALL DUCTWORK WALL PENETRATIONS SHALL BE SEALED AIR TIGHT REGARDLESS WALL FIRE RATING STATUS.

SEQUENCE OF OPERATION

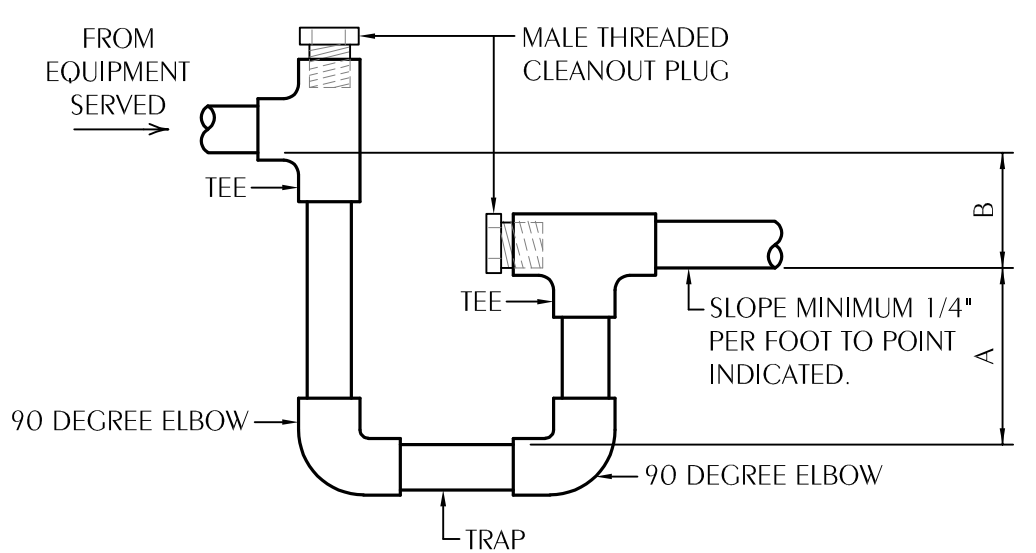
THE OUTSIDE AIR AUTOMATIC CONTROL DAMPER SHALL REMAIN OPEN TO ITS BALANCED POSITION AND THE INDOOR FAN SHALL REMAIN ENERGIZED DURING ALL OCCUPIED TIMES.

COOLING
A CALL FOR COOLING FROM THE SPACE THERMOSTAT SHALL ENERGIZE THE REFRIGERATION CIRCUITS IN STAGES IN REVERSE MODE AS DICTATED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS. ALL REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN THE SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

HEATING
A CALL FOR HEATING FROM THE SPACE THERMOSTAT SHALL ENERGIZE THE REFRIGERATION CIRCUITS IN STAGES IN REVERSE MODE AS DICTATED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS. ALL REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN THE SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

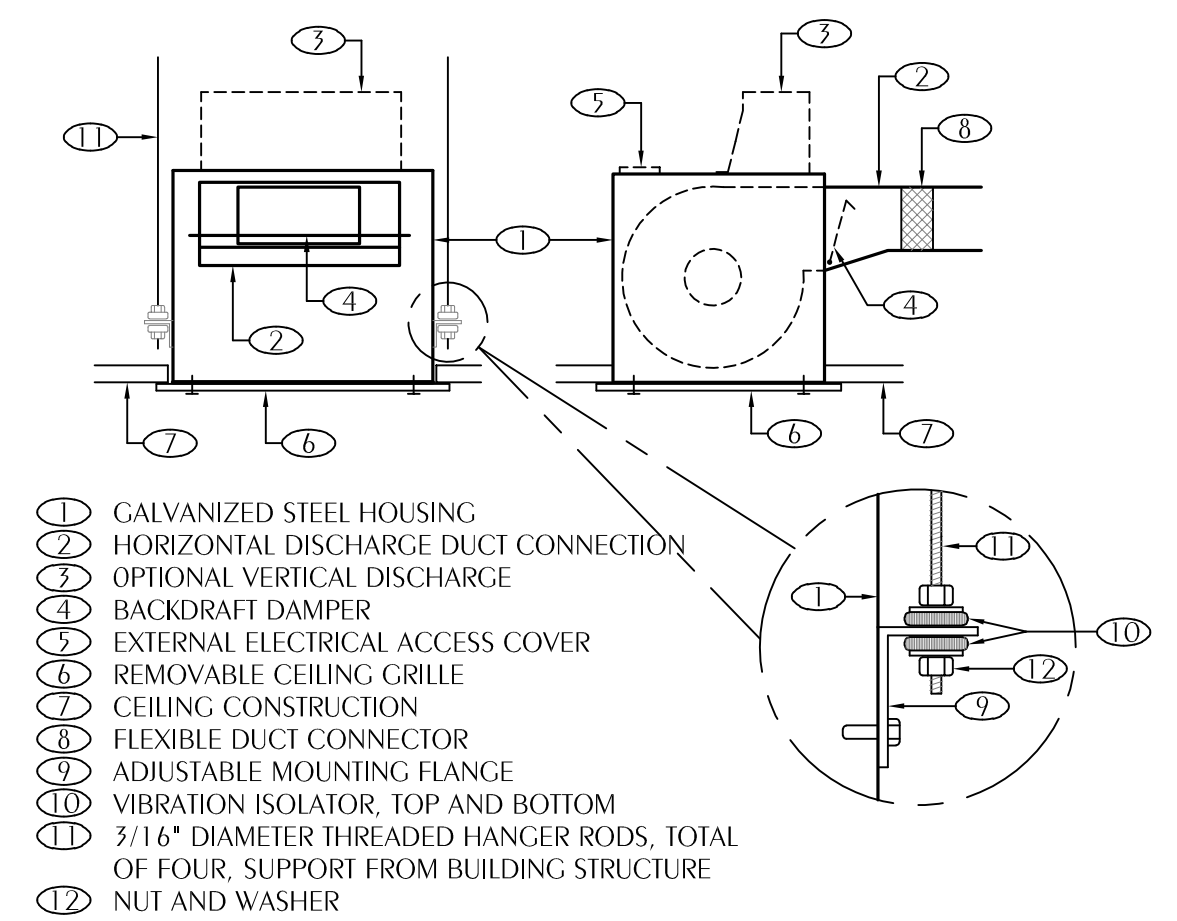
IF THE SPACE HEATING REQUIREMENTS CAN NOT BE MET USING THE REVERSE CYCLE ALONE, THE ELECTRIC HEATER WILL BE ENERGIZED IN STAGES AND CONTROLLED BY THE HEAT PUMP UNIT'S INTERNAL CONTROLS TO PROVIDE SUPPLEMENTAL HEAT. THE ELECTRIC HEATER AND THE REFRIGERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN THE SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

UNOCCUPIED MODE
WHEN THE SPACE IS UNOCCUPIED, THE UNITS SHALL OPERATE SAME AS DESCRIBED ABOVE. THE OUTSIDE AIR AUTOMATIC CONTROL DAMPER SHALL REMAIN COMPLETELY CLOSED AND THE EXHAUST FANS SHALL REMAIN DE-ENERGIZED.

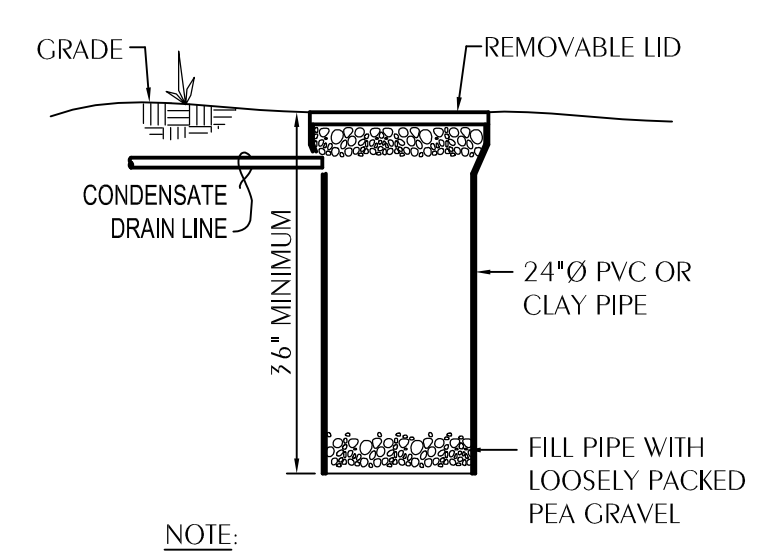


A = 0.5 X B
B = EQUIPMENT INTERNAL STATIC PRESSURE + 1" MINIMUM

CONDENSATE DRAIN DETAIL
NOT TO SCALE

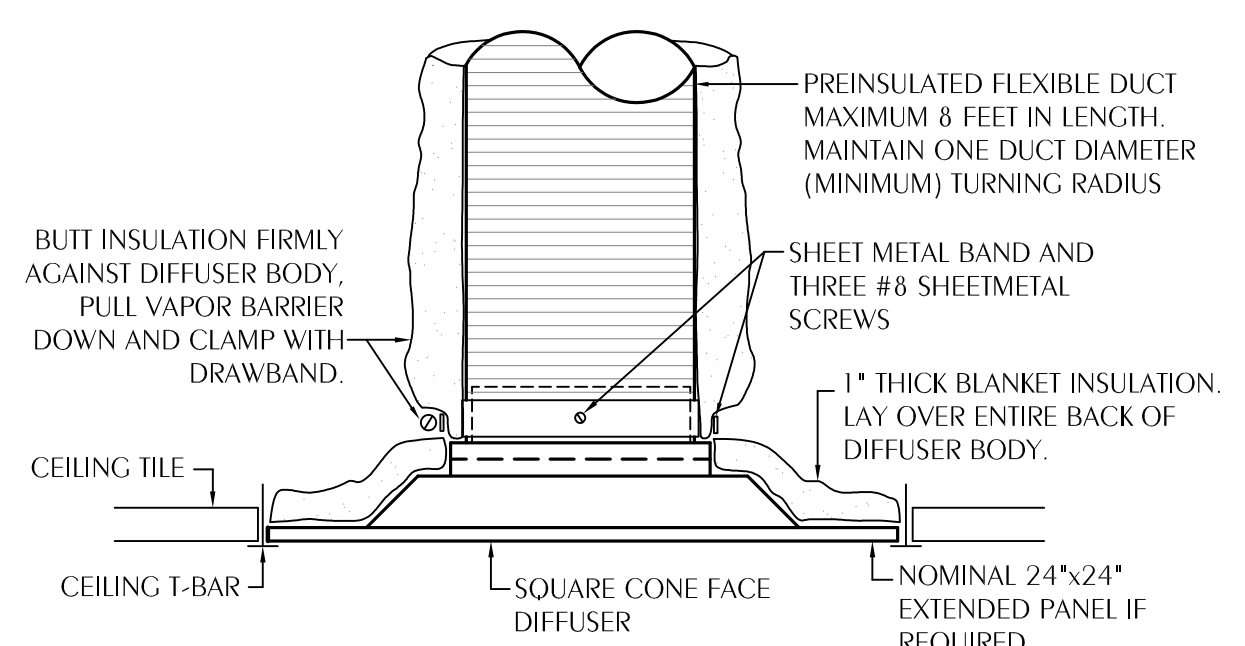


CEILING EXHAUST FAN INSTALLATION DETAIL
NOT TO SCALE

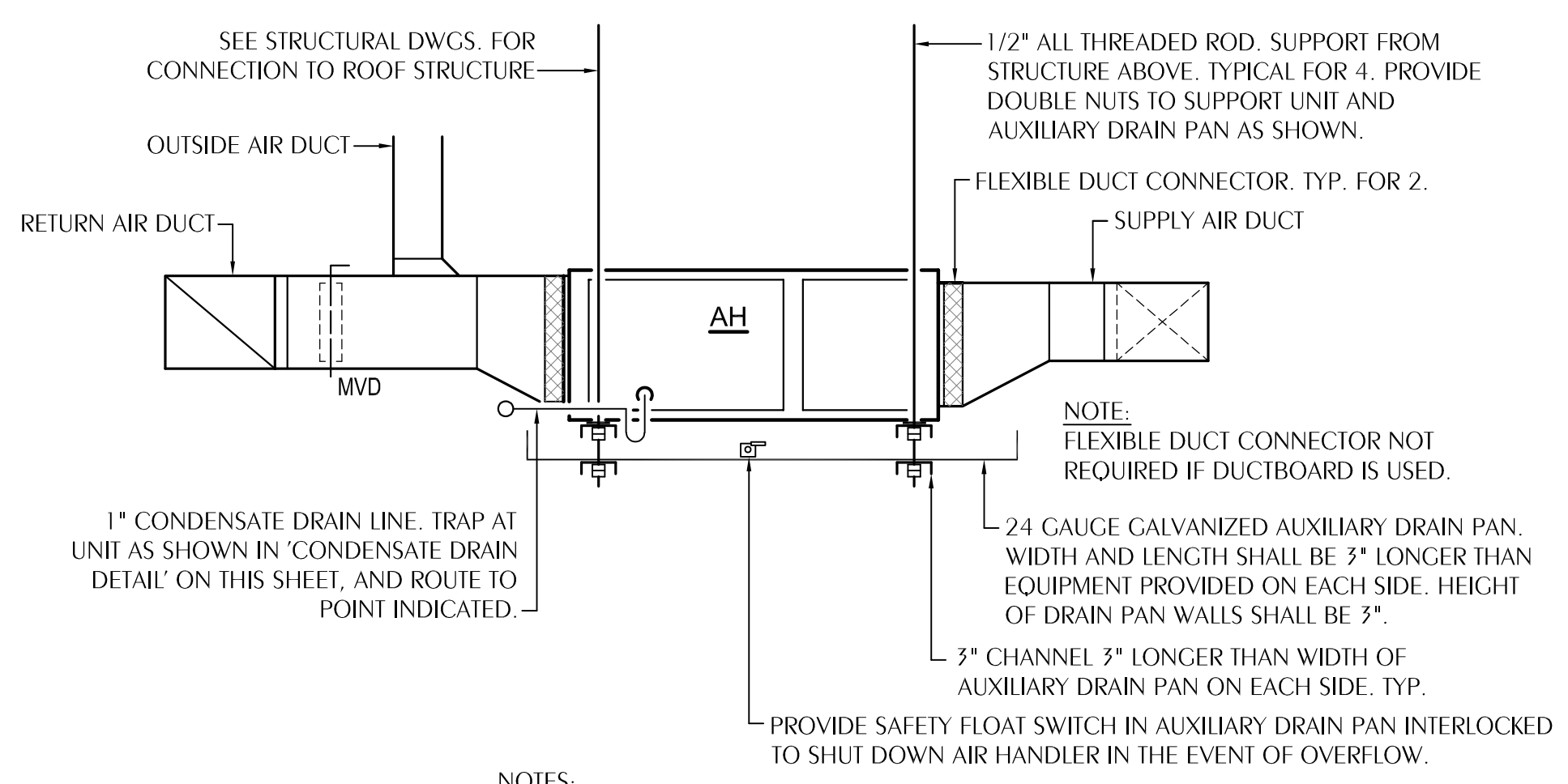


NOTE: SECURELY ANCHOR CONDENSATE PIPE IN PLACE.

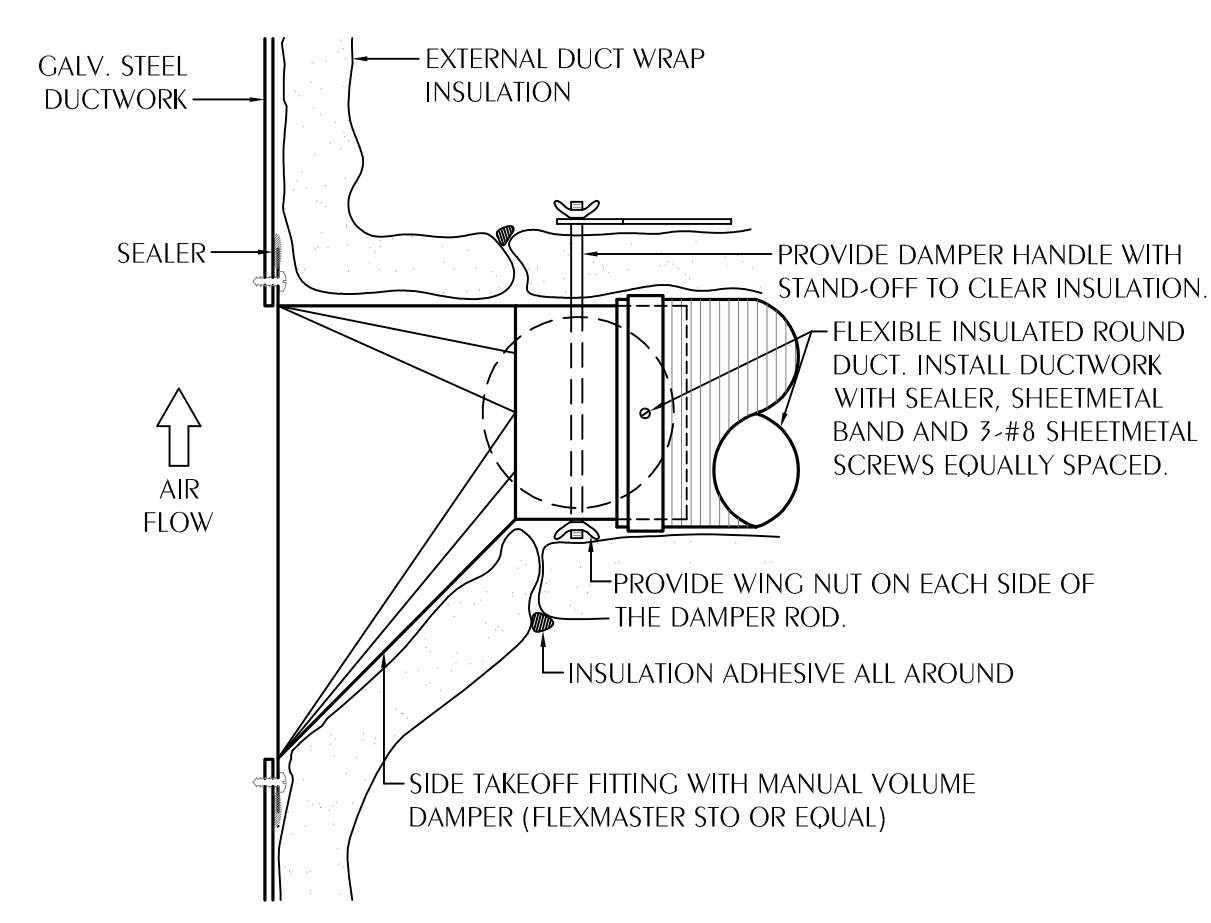
DRY WELL DETAIL
NOT TO SCALE



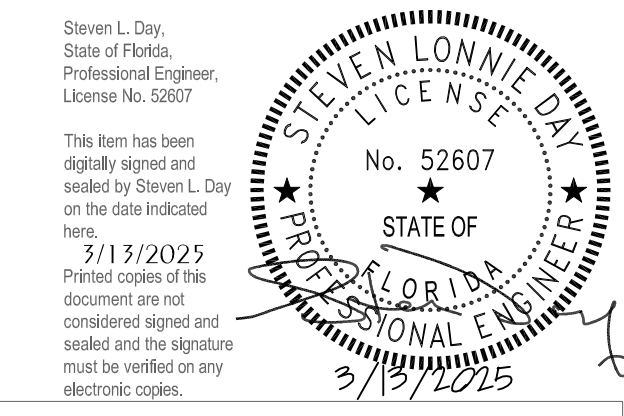
SQUARE CEILING DIFFUSER INSTALLATION DETAIL
NOT TO SCALE

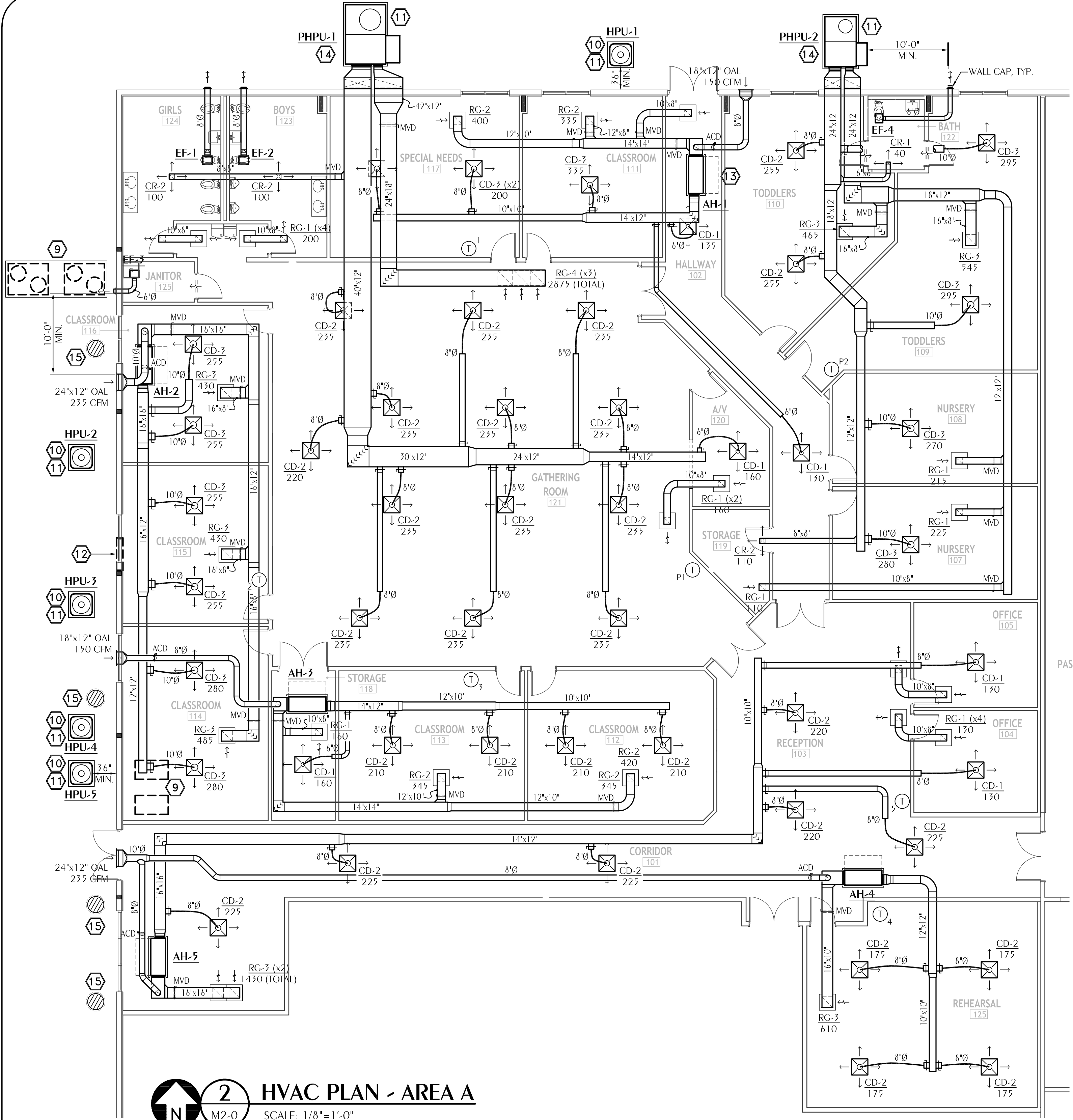


AIR HANDLER INSTALLATION DETAIL
NOT TO SCALE

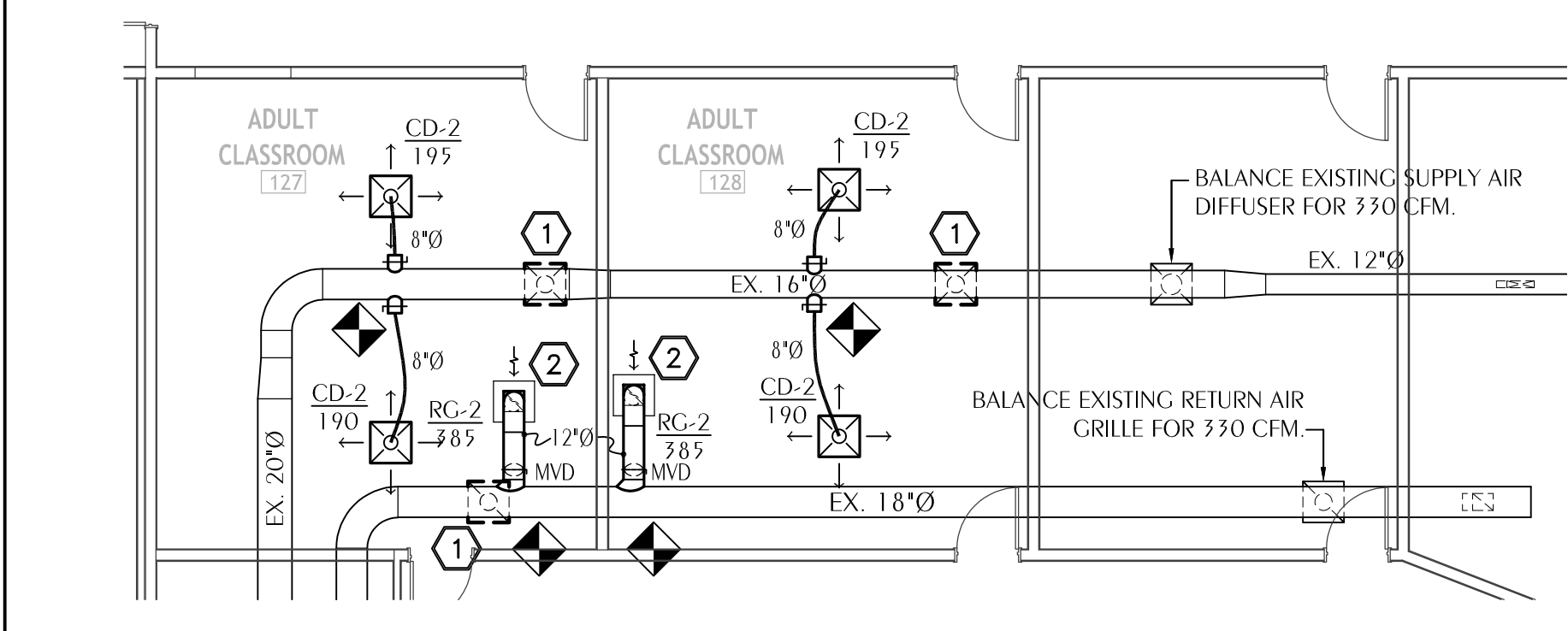


ROUND DUCT TAP-IN MOUNTING DETAIL
NOT TO SCALE

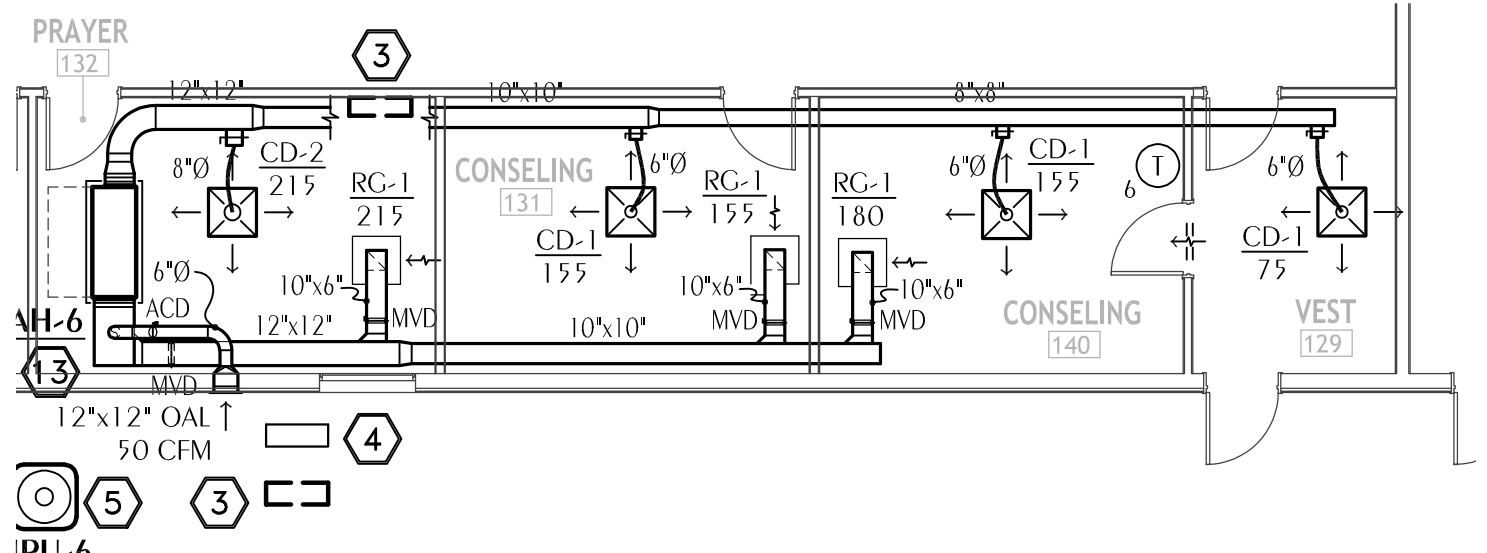




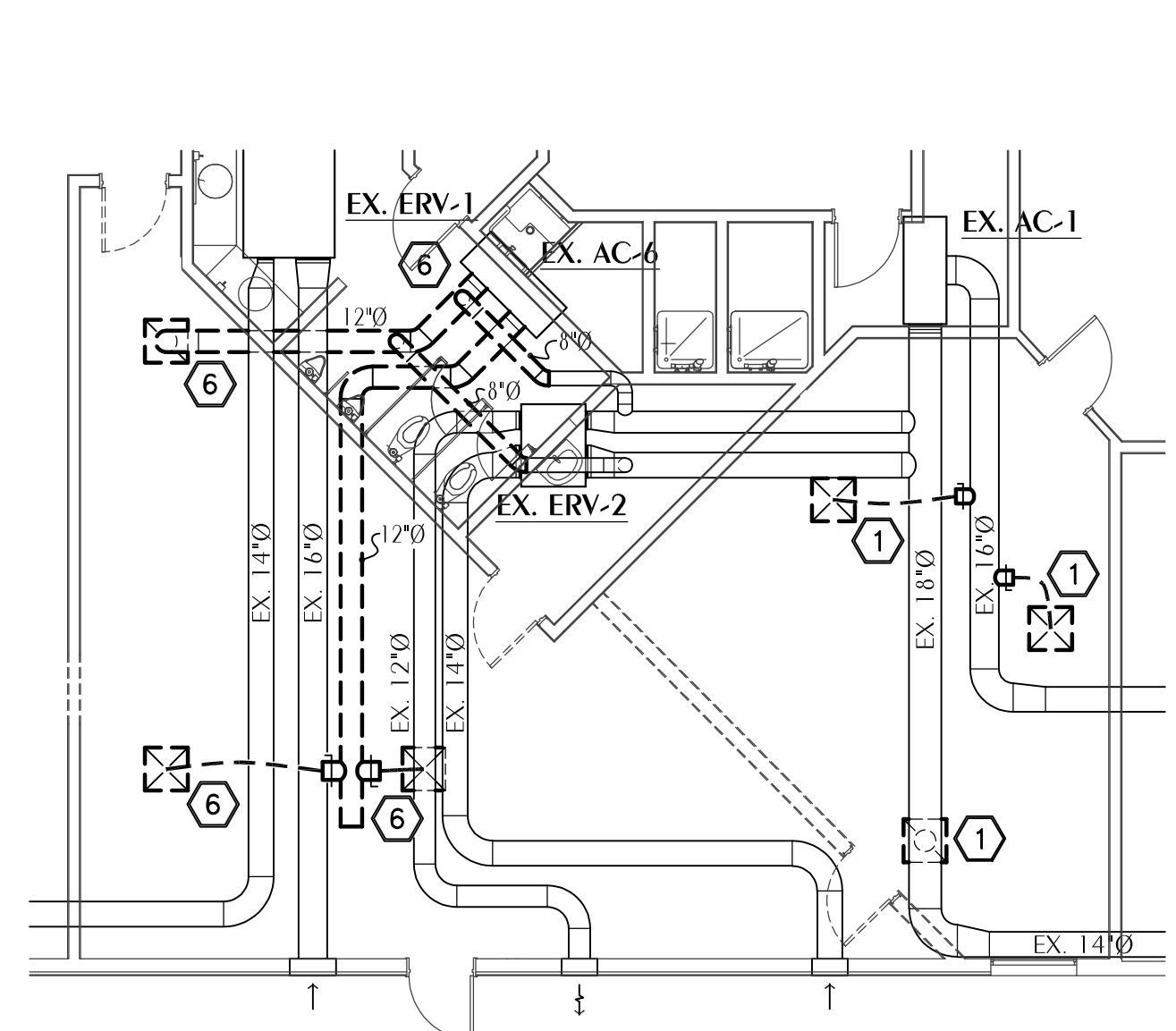
2 HVAC PLAN - AREA A
M2-0 SCALE: 1/8"=1'-0"



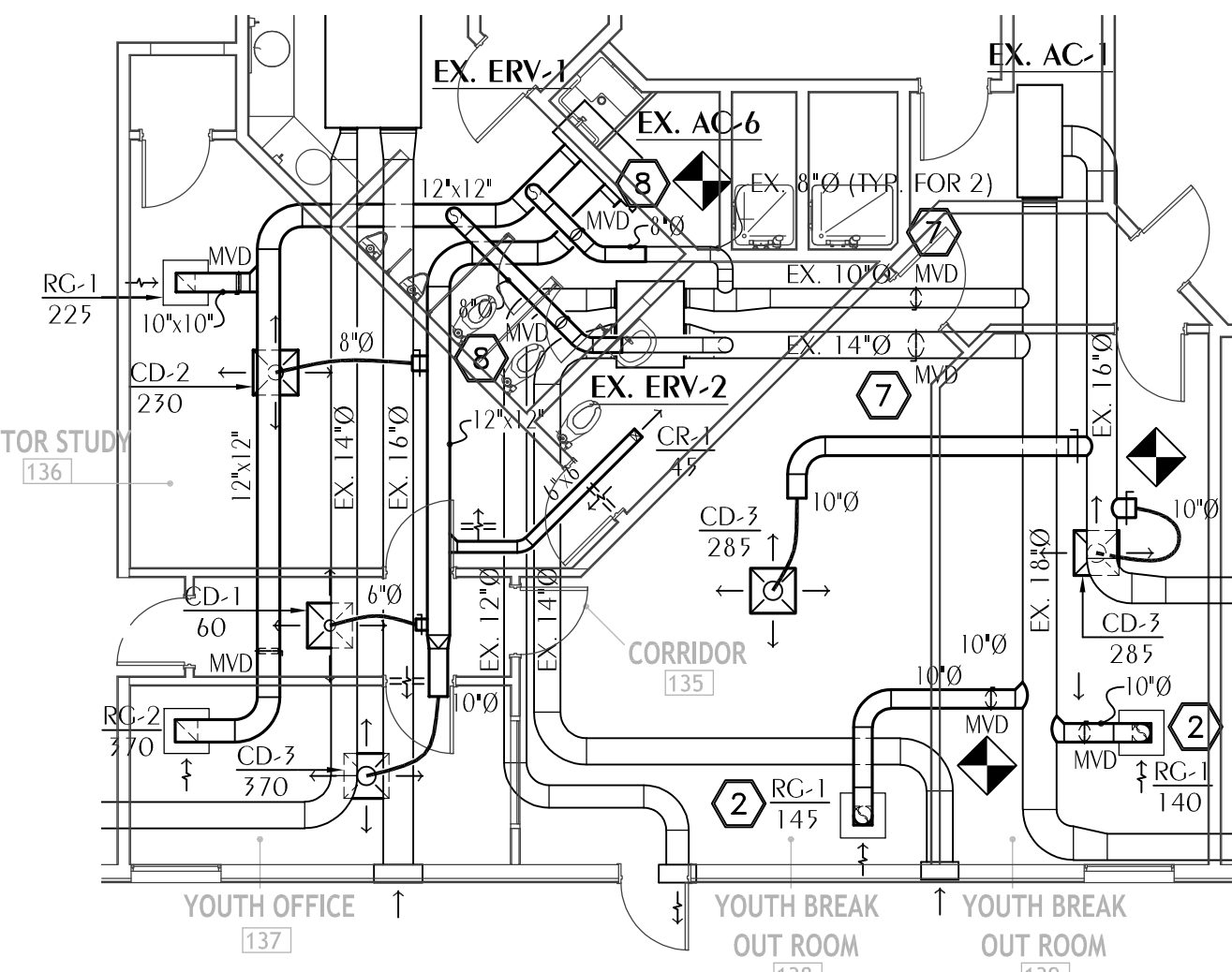
3 HVAC PLAN - AREA B
M2-0 SCALE: 1/8"=1'-0"



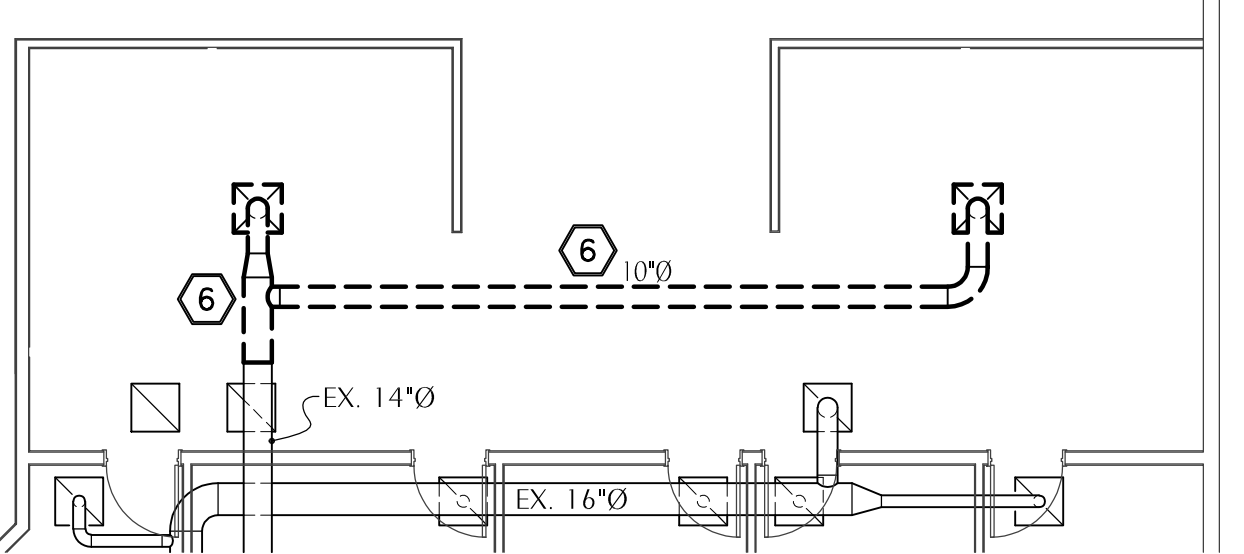
4 HVAC PLAN - AREA C
M2-0 SCALE: 1/8"=1'-0"



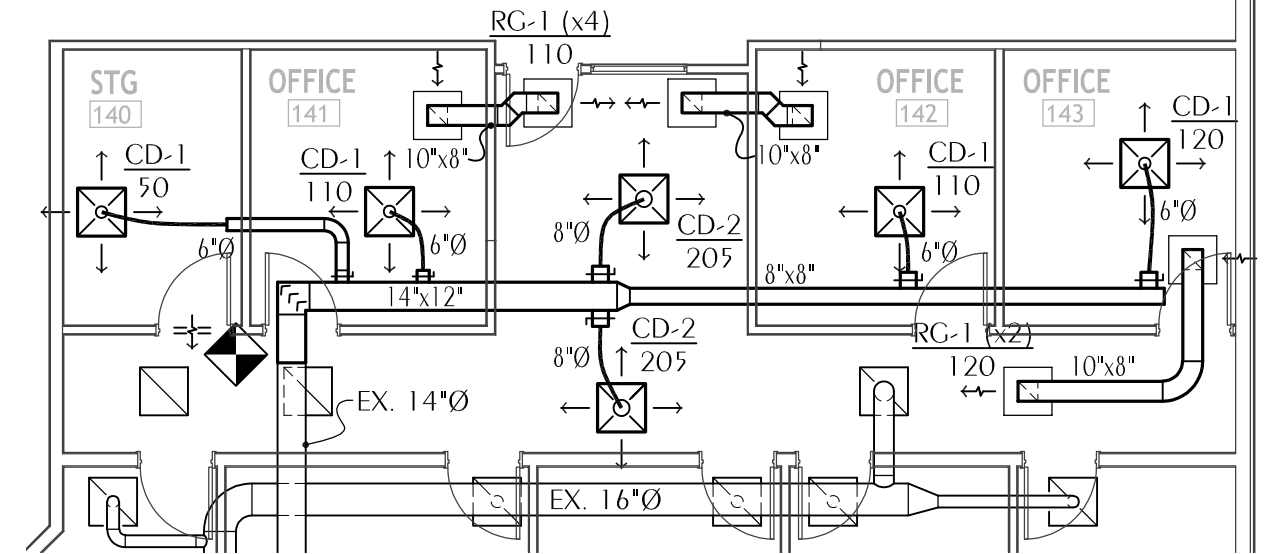
5 HVAC PLAN - AREA D
M2-0 SCALE: 1/8"=1'-0" DEMOLITION



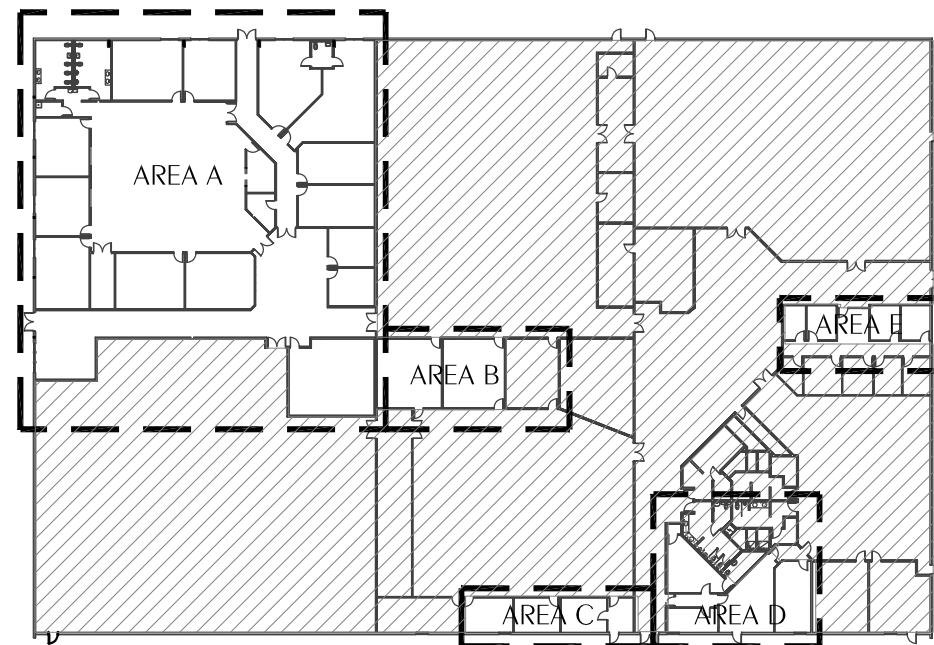
6 HVAC PLAN - AREA D
M2-0 SCALE: 1/8"=1'-0" NEW WORK



7 HVAC PLAN - AREA E
M2-0 SCALE: 1/8"=1'-0" DEMOLITION



8 HVAC PLAN - AREA E
M2-0 SCALE: 1/8"=1'-0" NEW WORK



1 KEY PLAN
M1-0 SCALE: NONE

SHEET NOTES

- 1 REMOVE EXISTING SUPPLY AIR DIFFUSER OR RETURN AIR GRILLE, COMPLETE WITH DUCT RUNOUT AND ANY SUPPORTS, DAMPERS AND ACCESSORIES. PATCH AND INSULATE EXISTING DUCT TRUNK TO MATCH ADJACENT EXISTING.
- 2 ROUTE ROUND DUCT DOWN, TRANSITION SMOOTHLY TO SQUARE GRILLE NECK SIZE AND CONNECT.
- 3 REMOVE EXISTING DUCTLESS SPLIT-SYSTEM AIR CONDITIONER INDOOR AND OUTDOOR UNITS. REMOVE ALL ASSOCIATED REFRIGERANT PIPING, CONDENSATE DRAIN PIPING, AND ELECTRICAL.
- 4 EXISTING DUCTLESS SPLIT-SYSTEM AIR CONDITIONER OUTDOOR UNIT TO REMAIN. DRAWING MAY BE INACCURATE. CONTRACTOR SHALL VERIFY IN THE FIELD CORRECT CONDENSING UNIT TO REMOVE.
- 5 SECURE HEAT PUMP UNIT TO EXISTING CONCRETE SIDEWALK PER MANUFACTURER'S RECOMMENDATIONS. LOCATE HEAT PUMP UNIT BETWEEN EXISTING DOWNSPOUT AND EXISTING ELECTRICAL DISCONNECT FOR RTU-4. ROUTE REFRIGERANT PIPING FROM HEAT PUMP UNIT ABOVE GRADE, THROUGH EXTERIOR WALL, UP TO ABOVE CEILING LEVEL, AND OVER TO AIR HANDLER. CONNECT REFRIGERATION CIRCUIT AT AIR HANDLER AND HEAT PUMP UNITS PER MANUFACTURER'S RECOMMENDATIONS. INSULATE ENTIRE LENGTH OF SUCTION LINE. COORDINATE EXTERIOR WALL WEATHERPROOFING WITH THE GENERAL CONTRACTOR IN THE FIELD.
- 6 REMOVE DUCTWORK AND CEILING DEVICES AS INDICATED, COMPLETE WITH ALL DAMPERS, SUPPORTS, AND ACCESSORIES.
- 7 IF NOT ALREADY PRESENT, INSTALL MVD IN EXISTING ROUND DUCT AND BALANCE FOR 575 CFM.
- 8 BALANCE FOR 100 CFM.
- 9 REMOVE TWO ABANDONED 10 TON AIR HANDLERS AND TWO ABANDONED 10 TON CONDENSING UNITS. REMOVE ALL ASSOCIATED CONTROLS, ELECTRICAL CONNECTIONS, AND INTERCONNECTING REFRIGERANT PIPING. COORDINATE SEALING OF EXTERIOR WALL WITH THE GENERAL CONTRACTOR IN THE FIELD.
- 10 ROUTE REFRIGERANT PIPING FROM EACH OUTDOOR UNIT ABOVE GRADE, INSIDE EXTERIOR WALL, UP TO ABOVE CEILING LEVEL, AND OVER TO APPROPRIATE INDOOR UNIT. CONNECT EACH REFRIGERATION CIRCUIT AT INDOOR AND OUTDOOR UNITS PER MANUFACTURER'S RECOMMENDATIONS. INSULATE ENTIRE LENGTH OF EACH SUCTION LINE.
- 11 PROVIDE CONCRETE EQUIPMENT PAD MINIMUM 3" LARGER THAN EQUIPMENT PROVIDED ON ALL SIDES. SECURE EACH HEAT PUMP UNIT TO EQUIPMENT PAD PER MANUFACTURER'S RECOMMENDATIONS. LOCATE EACH HEAT PUMP UNIT SO THAT ROOF RUNOFF DOES NOT POUR DIRECTLY ON UNIT.
- 12 REMOVE EXISTING WALL-MOUNTED PROPELLER FAN AND ALL ASSOCIATED ACCESSORIES. COORDINATE EXTERIOR WALL REPAIR WITH THE GENERAL CONTRACTOR IN THE FIELD.
- 13 TRAP CONDENSATE AT AIR HANDLER AND ROUTE THROUGH AND DOWN EXTERIOR WALL. SPILL IN NEAREST EXISTING STORM DRAIN.
- 14 TRAP CONDENSATE AT AIR HANDLER AND ROUTE TO AND DRAIN IN NEAREST EXISTING STORM DRAIN.
- 15 CONDENSATE DRY WELL. SEE 'DRY WELL DETAIL' ON SHEET M1-0. PROVIDE GALVANIZED FIXED AIR GAP FITTING, EQUIVALENT TO ZURN MODEL 1024 FOR EACH DRAIN PIPE CONNECTION AND INSTALL BOTTOM OF FITTING APPROXIMATELY 3" ABOVE GRADE. ROUTE CONDENSATE PIPE FROM AIR GAP FITTING UNDERGROUND TO DRY WELL. DRAIN CONDENSATE FROM EACH AIR HANDLER INTO ITS AIR GAP FITTING.

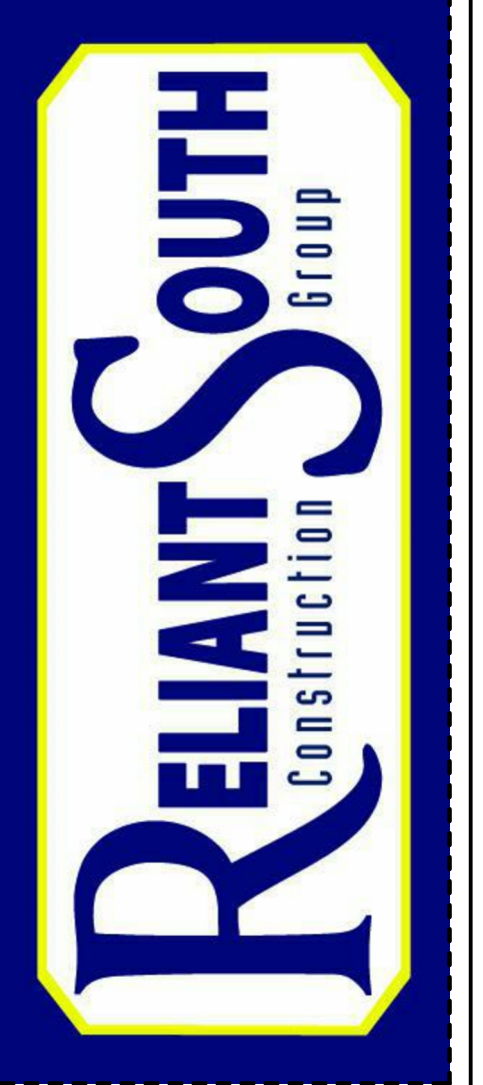
Steven L. Day,
State of Florida,
Professional Engineer,
License No. 52607

3/13/2025
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3/13/2025

WATFORD ENGINEERING
4452 Clinton Street Marianna, Florida 32446
2449 Moores Mill Road, Suite 100, Auburn, AL 36830

Florida CA Number: 27825
Steven L. Day, PE
Florida License Number: 52607
850.526.3447
Project Number: 2024-085



Design - Build Contractor
230 West 5th Street
Panama City, FL 32401
(850) 215-5540

**LYNN HAVEN
METHODIST CHURCH**
3203 MINNESOTA AVENUE
LYNN HAVEN, FL 32444

REVISION		
#	DESCRIPTION	DATE

Designed By: S.DAY

Drawn By: S.DAY

HVAC PLANS

M2-0

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SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HPU	BASIS OF DESIGN	MODEL AH/HPU	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING				SUPPL. HEAT	AH ELECTRICAL			HPU ELECTRICAL			NOTES
							TOTAL (BTUH)	SEER2	TOTAL (BTUH)	HSPF2		VOLTS/PHASE	MCA	MOCP	VOLTS/PHASE	MCA	MOCP	
1	CARRIER	F15ANXB36L00/ 27SCA536A003	1000	150	0.5	1/2	33,840	14.3	34,000	7.5	3.8 kW	208/1	27.3	30	208/1	19.2	30	1,2,3,4,5,6,7,8,9
2	CARRIER	F15ANXC48L00/ 27SCA548A003	1580	235	0.5	3/4	46,000	14.3	46,500	7.5	6.0 kW	208/1	42.8	45	208/1	29.4	50	1,2,3,4,5,6,7,8,9
3	CARRIER	F15ANXB30L00/ 27SCA530A003	1000	150	0.5	1/2	27,660	14.3	28,120	7.5	3.8 kW	208/1	27.3	30	208/1	16.3	25	1,2,3,4,5,6,7,8,9
4	CARRIER	F15ANXB24L00/ 27SCA524A003	700	90	0.5	1/3	23,460	14.3	23,450	7.5	3.8 kW	208/1	27.3	30	208/1	13.5	20	1,2,3,4,5,6,7,8,9
5	CARRIER	F15ANXC48L00/ 27SCA548A003	1600	170	0.5	3/4	46,000	14.3	46,500	7.5	6.0 kW	208/1	42.8	45	208/1	29.4	50	1,2,3,4,5,6,7,8,9
6	CARRIER	F15ANXB18L00/ 27SCA518A003	600	50	0.5	1/3	16,350	14.3	17,180	7.5	2.3 kW	208/1	17.0	20	208/1	10.9	15	1,2,3,4,5,6,7,8,9

1. PROVIDE 2" MERV 8 FILTERS AND FILTER HOUSING.
2. EFFICIENCIES IN ACCORDANCE WITH AHRI STANDARD 210/240.
3. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
4. ELECTRIC HEATER OUTPUT AS RATED AT VOLTAGE INDICATED.
5. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
6. PROVIDE THERMAL EXPANSION VALVES.
7. DIRECT DRIVE AHU FAN.
8. HEATING AND COOLING CAPACITY ARE RATED AT AHRI (AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE) CONDITIONS. PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.
9. SEER2 AND HSPF 2 VALUES LISTED ARE MINIMUM.

AIR PURIFICATION EQUIPMENT SCHEDULE

ZONE	SUPPLY CFM	OA CFM	PRESS. IN. W.C.	BASIS OF DESIGN	MODEL	QUANTITY	ELECTRICAL		NOTES
							VOLTS/PHASE	WATTS	
AH-1	1000	150	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
AH-2	1580	235	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
AH-3	1000	150	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
AH-4	700	90	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
AH-5	1600	170	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
AH-6	600	50	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
PHPU-1	3400	525	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4
PHPU-2	1800	240	<0.01	GPS	DM2	1	24 VAC/1	11	1,2,3,4

1. GPS = GLOBAL PLASMA SOLUTIONS.
2. PROVIDE BASIS OF DESIGN OR EQUAL LISTED IN SPECIFICATIONS.
3. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
4. MANUFACTURER MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL.

PACKAGED HEAT PUMP UNIT SCHEDULE

UNIT PHPU	BASIS OF DESIGN	MODEL	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING				HEATING				SUPPL. HEAT	RTU ELECTRICAL			NOTES	
							MAT° (DB/WB)	OAT° (DB/WB)	TOTAL (BTUH)	SENSIBLE (BTUH)	IEER	MAT° (DB)	OAT° (DB)	TOTAL (BTUH)		HSPF2	VOLTS/PHASE	MCA		MOP
1	CARRIER	50FEQM12A2A6-0A0A0	3400	525	0.5	1.27	78.6/66.5	95.0/78.0	123,130	85,990	15.0	63.7	25	111,990	3.4 COP	13.8 kW	480/3	52.0	60	1,2,3,4,5,6,7,8,9,10,11
2	CARRIER	50FEQA06A2A6-0A0A0	1800	240	0.5	0.78	78.4/66.8	95.0/78.0	63,120	46,400	13.4 SEER2	62.5	25	56,900	6.7	5.5 kW	480/3	24.0	30	1,2,3,4,5,6,7,8,9,10,11

1. PROVIDE 2" MERV 8 FILTERS.
2. EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
3. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
4. ELECTRIC HEATER KW IS AS RATED AT 208V.
5. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS, AND AUTOMATIC OUTSIDE AIR DAMPER. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
6. PROVIDE THERMAL EXPANSION VALVES.
7. TRAP CONDENSATE AT UNIT AND ROUTE TO NEAREST RAIN CUTTER.
8. COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
9. PROVIDE PROGRAMMABLE THERMOSTAT.
10. PROVIDE UV-C GERMICIDAL LIGHT IN BLOWER/EVAPORATOR COIL SECTION TO AID IN REDUCING VIRUSES AND BACTERIA. PROVIDE WITH SAFETY INTERLOCK TO TERMINATE POWER WHEN ACCESS PANELS ARE REMOVED.
11. PROVIDE WITH FACTORY-INSTALLED ECONOMIZER OPTION.

FAN SCHEDULE

UNIT	TYPE	CFM	MAX FAN RPM	ESP (IN. H2O)	MAX MOTOR POWER	SONES/dB (MAX.)	BASIS OF DESIGN	MODEL	CONTROL	ELECTRICAL VOLTS/PHASE	NOTES
EF-3	CEF	70	840	0.375	15 WATTS	2.0	GREENHECK	SP-A50-90-VG	INTERLOCK WITH PHPL-1	120/1	1,2,3,4,5,6,7
EF-4	CEF	70	840	0.375	15 WATTS	2.0	GREENHECK	SP-A50-90-VG	INTERLOCK WITH LIGHTS	120/1	1,2,3,4,5,6,7

1. CEF - CEILING EXHAUST FAN
2. PROVIDE DISCONNECT.
3. PROVIDE SOLID STATE SPEED CONTROLLER.
4. PROVIDE BACK DRAFT DAMPER.
5. PROVIDE THERMAL OVERLOAD.
6. PROVIDE DIRECT DRIVE FAN.
7. PROVIDE VIBRATION ISOLATION HANGERS.

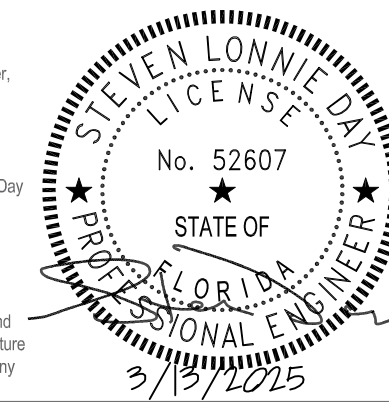
AIR DEVICE SCHEDULE

MARK	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	24x24	60	TMS
CD-2 CFM	24x24	80	TMS
CD-3 CFM	24x24	100	TMS
CR-1 CFM	6x4	6x4	250
CR-2 CFM	8x8	8x8	250
RG-1 CFM	10x10	10x10	50F
RG-2 CFM	12x12	12x12	50F
RG-3 CFM	16x16	16x16	50F
RG-4 CFM	22x22	22x22	50F

- NOTES:
1. MAX NC=20
 2. PROVIDE 2x2 LAY IN PANEL FOR AIR DEVICES IN LAY IN CEILINGS.
 3. PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
 4. PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS OR WALLS.
 5. WITH THE EXCEPTION OF 'CR-4', PROVIDE CEILING REGISTERS (CR) WITH A MANUAL AIR VOLUME CONTROL DAMPER OPERABLE FROM THE FRONT OF THE REGISTER.

Steven L. Day,
State of Florida,
Professional Engineer,
License No. 52607

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WATFORD
ENGINEERING
4452 Clinton Street Marianna, Florida 32446
2449 Moores Mill Road, Suite 100, Auburn, AL 36830

Florida CA Number: 27825
Steven L. Day, PE
Florida License Number: 52607
850.526.3447
Project Number: 2024-085



Design - Build Contractor

230 West 5th Street
Panama City, FL 32401
(850) 215-5540

LYNN HAVEN
METHODIST CHURCH
3203 MINNESOTA AVENUE
LYNN HAVEN, FL 32444

REVISION		
#	DESCRIPTION	DATE

Designed By:
S.DAY

Drawn BY:
S.DAY

HVAC
SCHEDULES

M3-0

03/10/2025 10:00:00 AM

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