

LEGEND

	EQUIPMENT TAG	SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
	DETAIL TAG (*1* INDICATES IDENTIFICATION NUMBER; *M3* INDICATES THE SHEET NUMBER DRAWN ON)	(2)SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
	SHEET NOTE	TYP TEMP	TEMPERATURE
	SUPPLY DUCT SECTION POSITIVE PRESSURE	SA	SUPPLY AIR
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	RA	RETURN AIR
	RECTANGULAR DUCT SIZE (*A* INDICATES SIDE SHOWN; *B* INDICATES SIDE NOT SHOWN)	EA	EXHAUST AIR
	INDICATES RISE IN ELEVATION OF DUCT.	MA	MIXED AIR
	EXTERNALLY INSULATED DUCTWORK	OA	OUTDOOR AIR
	INTERNALLY INSULATED DOUBLE WALL SPIRAL DUCTWORK	TA	TRANSFER AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	EF	EXHAUST FAN
	DUCT ELBOW WITH TURNING VANES	CD	CEILING DIFFUSER
	RADIUS DUCT ELBOW	RG	RETURN GRILLE
	FLEXIBLE DUCT CONNECTION	EC	EXHAUST GRILLE
	MANUAL VOLUME BALANCING DAMPER	ER	EXHAUST REGISTER
	MOTORIZED DAMPER	CREF	CEILING ROOF EXHAUST FAN
	FIRE DAMPER WITH ACCESS DOORS	AHU	INDOOR AIR HANDLING UNIT
	BACKDRAFT DAMPER	CU	OUTDOOR CONDENSING UNIT
	TEE WITH TURNING VANES	①	TEMPERATURE AND HUMIDITY SENSOR WITH SET POINT ADJUSTMENT, *1* INDICATES UNIT CONTROLLED
	TRANSITION	⊙	DUCT MOUNTED SMOKE DETECTOR
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE	⊕	FLOOR DRAIN
	BRANCH DUCT TAKEOFF WITH MVD	UC	UNDERCUT DOOR 3/4"
		DG	18"x18" DOOR GRILLE WITH AUXILIARY MOUNTING FRAME, TITUS MODEL CT-700L
		AFF	ABOVE FINISHED FLOOR
		⊠	FIRE DAMPER AT CEILING DIFFUSER OR GRILLE
		XFR	TRANSFER AIR
		DDC	DIRECT DIGITAL CONTROLS
		IRH	INFRARED RADIANT HEATER
		TC	TIME CLOCK
		SWG	SIDE WALL GRILLE WITH OPPOSED BLADE BALANCING DAMPER
		S	EQUIPMENT SWITCH
		CF	CEILING FAN

SEQUENCE OF OPERATION

AHU/HP
 GENERAL: PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH UNIT. THERMOSTAT SHALL BE CAPABLE OF PERFORMING THE SEQUENCE OUTLINED BELOW. THERMOSTAT SHALL ACCEPT AN EXTERNAL OCCUPIED SCHEDULE FROM THE ELECTRONIC MECHANICAL EQUIPMENT TIME CLOCK.

OCCUPIED MODE: THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL OPERATE A 2ND STAGE OF HEAT ONLY WHEN OUTDOOR TEMPERATURE IS BELOW 40°F. THE SETPOINT FOR COOLING SHALL BE 75° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70° F ADJUSTABLE.

UNOCCUPIED MODE: THE INDOOR FAN AND HP SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 85° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60° F ADJUSTABLE.

VERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR 1 HOUR.

OAU/CU-1
 THE FOLLOWING SEQUENCE OF OPERATIONS SHALL BE PROVIDED BY THE UNIT MANUFACTURER:

GENERAL: PROVIDE FACTORY MOUNTED AND WIRED DIGITAL CONTROLLER CAPABLE OF PERFORMING THE SEQUENCE OUTLINED BELOW. STARTING AND STOPPING OF EQUIPMENT SHALL BE BY A UNIT MOUNTED DIGITAL CONTROLLER. WITH THE DIGITAL CONTROLLER IN THE AUTO POSITION, THE UNIT SHALL BE STARTED AUTOMATICALLY BY THE OCCUPANCY SIGNAL FROM THE ELECTRONIC TIME CLOCK AND ALL CONTROLS ACTIVATED SUBJECT TO THE FIRE ALARM RELAY, SAFETIES, AND OVERLOADS. THE CONTROLLER SHALL BE CAPABLE OF 7 DAY PROGRAMMING WITH OCCUPIED AND UNOCCUPIED SCHEDULING. INTERLOCKED EXHAUST FANS SHALL RUN CONTINUALLY DURING OCCUPIED TIMES.

OCCUPIED MODE DEHUMIDIFICATION: THE MOTORIZED OA DAMPER SHALL OPEN TO THE BALANCED POSITION AND THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE UNIT SHALL DEHUMIDIFY SUPPLY AIR ANYTIME THE OUTDOOR AIR DEWPOINT IS ABOVE 55°F. THE UNIT SHALL REHEAT SUPPLY AIR TO SPACE CONDITIONS WITH VARIABLE HOT GAS REHEAT, MAINTAINING LEAVING AIR TEMPERATURE OF 72°F.

OCCUPIED MODE HEATING: WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 50°F, THE UNIT SHALL MODULATE SCR ELECTRIC STRIP HEAT TO MAINTAIN 70°F LEAVING AIR TEMPERATURE. THE ELECTRIC HEAT SHALL BE LOCKED OUT DURING COOLING.

SUPPLY AIR RESET-TEMPERATURE BASED: AT THE START OF EACH PERIOD OF OCCUPANCY, THE UNIT CONTROLLER SHALL SET SUPPLY AIR TEMPERATURE TO 60F. THE UNIT CONTROLLER SHALL MONITOR THE ASSOCIATED AHU'S IN THE AREAS SERVED BY THE OAU. UPON A CALL FOR HEATING FROM MORE THAN 10% OF THE UNITS SERVED BY THE OAU, THE UNIT CONTROLLER SHALL RESET OAU DISCHARGE AIR TEMPERATURE UP IN 5F INCREMENTS UNTIL THERE ARE FEWER THAN 10% OF THE UNITS SERVED WITH HEATING DEMAND OR A MAXIMUM SUPPLY AIR TEMPERATURE OF 75F HAS BEEN REACHED.

SUPPLY AIR RESET-HUMIDITY BASED: THE UNIT CONTROLLER SHALL MONITOR THE ASSOCIATED AHU'S IN THE AREAS SERVED BY EACH OAU. UPON A RISE IN AVERAGE RELATIVE HUMIDITY ABOVE 65% (ADJUSTABLE), THE CONTROLLER SHALL RESET OAU DISCHARGE AIR TEMPERATURE UP IN 5F INCREMENTS UNTIL THE CALL FOR DEHUMIDIFICATION HAS BEEN SATISFIED OR A MAXIMUM SUPPLY AIR TEMPERATURE OF 75F HAS BEEN REACHED.

UNOCCUPIED MODE: THE MOTORIZED OA DAMPER SHALL CLOSE AND THE UNIT SHALL NOT OPERATE.

GENERAL NOTES

1. ALL DUCT DIMENSIONS ARE NET INSIDE.
2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
3. FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
5. PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
6. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
7. ALL AHU AND OAU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
8. PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
9. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
10. ROUTE REFRIGERANT LINES AND CONDENSATE ALONG WALLS OF MECHANICAL ROOMS. LINES SHALL NOT CROSS WALKING PATH TO INDOOR EQUIPMENT.
11. ALL LOW VOLTAGE CONTROLS SHALL BE ROUTED IN CONDUIT.
12. ALL WORK SHALL COMPLY WITH 7TH EDITION (2020) FLORIDA BUILDING CODE.
13. PROVIDE 4" THICK INDIVIDUAL HOUSEKEEPING PADS UNDER ALL OUTSIDE CONDENSING UNITS AND HEAT PUMPS. HOUSEKEEPING PAD SHALL BE 4" WIDER THAN EQUIPMENT ON ALL SIDES.

DUCTWORK NOTES

1. ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0" WHERE LENGTH REQUIRED EXCEEDS 5'-0". INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
2. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
3. ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKE-OFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
4. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
5. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
6. STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
7. WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.

100% OUTSIDE AIR UNIT SCHEDULE

UNIT OAU/CU	BASIS OF DESIGN	OAU MODEL	CU MODEL	CONFIGURATION	TOTAL AIRFLOW (CFM)	OA (CFM)	ESP (IN. WC)	FAN (HP)	DEHUMIDIFICATION		TOTAL (BTUH)	SENSIBLE (BTUH)	ISMRE	HEATING		OAU ELECTRICAL			CU ELECTRICAL			NOTES
									EAT° (DB/WB)	LAT° (DP)				EAT (DB)	KW	VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP	
1	DESERT AIRE	QV15	RC5S067C3K22400	SPLIT	2005	2005	0.5	5.0	84.0/80.0	54.3	184000	130700	7.9	25	28	208/3	113	125	208/3	7.4	15	1,2,3,4,5,6,7,8,9

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|--|---|---|
| 1. ISMRE IS INTEGRATED SEASONAL MOISTURE REMOVAL EFFICIENCY. | HOT GAS REHEAT AND LIQUID SUBCOOLING. | 7. PROVIDE DIRECT DRIVE FAN WITH ECM MOTOR. |
| 2. ESP DOES NOT INCLUDE FILTER, CASING, ETC. | 4. PROVIDE SCR ELECTRIC HEAT. | 8. MAXIMUM WEIGHT: 1444 LBS. |
| 3. PROVIDE 100% OUTSIDE AIR DEHUMIDIFICATION UNIT WITH | 5. PROVIDE SINGLE POINT POWER CONNECTION. | 9. PROVIDE MOTORIZED OUTSIDE AIR DAMPER. |
| | 6. PROVIDE REFRIGERANT SHOP DRAWINGS. | |

SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HP	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING		TOTAL (BTUH)	SENSIBLE (BTUH)	SEER	HEATING		SUPPL. HEAT (KW)	AHU ELECTRICAL			HP ELECTRICAL			NOTES
					MAT° (DB/WB)	OAT° (DB/WB)				MAT° (DB)	OAT° (DB)		VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP	
1	1660	220	0.5	0.75	73.1/60.3	95.0/78.0	34800	34800	14.6	70.8	55	7.21	208/1	52.0	60.0	208/1	26.0	40.0	1,2,3,4,5,6,7,8,9
2	1100	385	0.5	0.50	72.5/59.5	95.0/78.0	24200	23000	14.6	71.2	55	3.60	208/1	27.0	30.0	208/1	15.0	20.0	1,2,3,4,5,6,7,8,9
3	1295	170	0.5	0.50	73.2/61.0	95.0/78.0	31400	26800	14.6	70.9	55	5.77	208/1	40.0	40.0	208/1	18.0	30.0	1,2,3,4,5,6,7,8,9
4	1280	180	0.5	0.50	73.2/60.6	95.0/78.0	29800	26700	14.6	70.9	55	5.77	208/1	40.0	40.0	208/1	18.0	30.0	1,2,3,4,5,6,7,8,9

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|---|---|--|
| 1. PROVIDE 2 * 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS. | 4. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION. | 7. COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT. |
| 2. EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240. | 5. PROVIDE THERMAL EXPANSION VALVES. | 8. PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS. |
| 3. ESP DOES NOT INCLUDE FILTER, CASING, ETC. | 6. DIRECT DRIVE AHU FAN. | 9. PRETREATED OUTSIDE AIR. |



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**South Walton County Mosquito Control District
 New Headquarters Building**

774 North County Highway 393
 Santa Rosa Beach, Florida 32459

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No.	Description	Date



HVAC LEGEND, SCHEDULES, AND NOTES



Project number: 18106
 Date: 06-20-2023
 PIC: KAJ
 PM: KAJ

M100

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FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H2O)	MAX. MOTOR POWER	SONES/db (MAX.)	BASIS OF DESIGN	MODEL	CONTROL	ELECTRICAL	NOTES
										VOLTS/PHASE	
EF-1	ROOF	1110	1200	0.5	1 HP	NA	STROBIC AIR	M24A05N01016	INTERLOCK WITH WITH HOOD	208/3	1,2,3,4,5,9,10,11
EF-2	INLINE	630	903	0.25	1/2 HP	3.3 / 4.9	COOK	I20SQN17DEC	INTERLOCK WITH OAU-1	208/1	1,2,3,4,5
FF-1	WALL	1380	5960	NA	1/2 HP	NA	MARS	STD236-1U-OB	INTERLOCK WITH DOOR LIMIT SWITCH	208/3	1,8
FF-2	WALL	1440	4247	NA	1/2 HP	NA	MARS	STD248-1U-OB	INTERLOCK WITH DOOR LIMIT SWITCH	208/3	1,8
BF-1	INLINE	190	2175	2.5	65 W	NA	FANTECH	DBF4XL	INTERLOCK WITH PRESSURE SWITCH	120/1	1
BF-2	INLINE	190	2175	2.5	65 W	NA	FANTECH	DBF4XL	INTERLOCK WITH PRESSURE SWITCH	120/1	1

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|---|---|--|
| <ol style="list-style-type: none"> 1. PROVIDE DISCONNECT 2. PROVIDE SOLID STATE SPEED CONTROLLER. 3. PROVIDE BACK DRAFT DAMPER 4. PROVIDE THERMAL OVERLOAD 5. PROVIDE DIRECT DRIVE FAN | <ol style="list-style-type: none"> 6. PROVIDE ALUMINUM ROOF CURB 7. PROVIDE INSULATED HOUSING. 8. PROVIDE DOOR SWITCH. 9. PROVIDE MIXED FLOW INDUCED DILUTION HIGH PLUME FAN. | <ol style="list-style-type: none"> 10. PROVIDE BYPASS AIR INTAKE WITH WEATHERHOOD AND BIRDSCREEN. 11. PROVIDE FAN WITH EFFECTIVE STACK HEIGHT OF 16' WITH 15 MPH WIND. |
|---|---|--|

VENTILATION SCHEDULE

SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON
CORRIDOR	0.06	0
CONFERENCE ROOM	0.06	5
OFFICE	0.06	5
RECEPTION	0.06	5
RESTROOM	0	70/FIXTURE
SHOWER	0	50/FIXTURE
DWELLING UNIT	0.06	5
STORAGE	0.12	0

NOTE:
VENTILATION RATES HAVE BEEN REDUCED IN ACCORDANCE WITH ASHRAE STANDARD 62.1-2016, INDOOR AIR QUALITY PROCEDURE.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	80	12x12	6Ø	TDC-AA
CD-2 CFM	245	12x12	8Ø	TDC-AA
CD-3 CFM	350	12x12	10Ø	TDC-AA
SWG-1 CFM	530	12x12	12x12	272FL
<u>RG, EG, SG, TG, RR, ER</u>				
xx-1 CFM	450	12x12	12x12	350FL
xx-2 CFM	1705	22x22	22x22	350FL

- 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.
 5. PROVIDE ALUMINUM BIRD SCREEN FOR SOFFIT GRILLES.

MINI SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

UNIT	BASIS OF DESIGN	MODEL	TYPE	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING EAT °F DB/WB	RATED COOLING CAPACITY (BTUH)		NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING TOTAL CAPACITY (BTUH)	DESIGN HEATING EAT °F DB	AIRFLOW (CFM)	VOLTS/PHASE	FAN (WATTS)	FAN FLA (AMPS)	NOTES
						COOLING TOTAL	COOLING SENSIBLE								
WM-1.1	MITSUBISHI	PKA-A36KA7	WALL	36000	80.0 / 67.0	35700	35600	36000	800	69.5	810	FED FROM MHP-1	NA	NA	1,2,3,4
WM-2.1	MITSUBISHI	PKA-A24KA7	WALL	24000	80.0 / 67.0	24000	24000	24000	600	69.5	385	FED FROM MHP-2	NA	NA	1,2,3,4
WM-3.1	MITSUBISHI	PKA-A18LA	WALL	18000	80.0 / 67.0	18000	13140	19000	600	69.5	385	FED FROM MHP-3	NA	NA	1,2,3,4
WM-4.1	MITSUBISHI	PKA-A30KA7	WALL	30000	80.0 / 67.0	25700	25000	30000	600	69.5	705	FED FROM MHP-4	NA	NA	1,2,3,4

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 47°F (DB)
3. PROVIDE HARD WIRED REMOTE THERMOSTAT.
4. INDOOR UNIT IS POWERED BY OUTDOOR UNIT.

MINI SPLIT SYSTEM CONDENSING UNIT SCHEDULE

UNIT	BASIS OF DESIGN	MODEL	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING OUTDOOR TEMP DB	SEER2	NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING OUTDOOR TEMP DB	HSPF2	VOLTS/PHASE	MCA (AMPS)	MOCF (AMPS)	NOTES
MHP-1	MITSUBISHI	PUZ-HA36NKA	36000	95.0	18.7	36000	25.0	9.0	208/1	24.0	40.0	1,2
MHP-2	MITSUBISHI	PUZ-HA24NHA1	24000	95.0	19.5	24000	25.0	9.5	208/1	17.0	27.0	1,2
MHP-3	MITSUBISHI	PUZ-A18NKA7	18000	95.0	19.8	18000	25.0	11.2	208/1	11.0	28.0	1,2
MHP-4	MITSUBISHI	PUZ-HA30NKA	30000	95.0	18.5	30000	25.0	8.5	208/1	24.0	40.0	1,2

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. EFFICIENCY VALUES FOR SEER AND HSPF ARE BASED ON AHRI 1250 TEST METHOD FOR NON-DUCTED INDOOR UNITS.

LOUVER SCHEDULE

MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT² (MIN)
LVR-1 CFM	2005	40x20	2.46
LVR-2 CFM	650	24x18	0.76

1. PROVIDE RUSKIN MODEL 'EME3625MD' (OR EQUAL) EXTRUDED ALUMINUM, WIND-DRIVEN RAIN RESISTANT, STATIONARY LOUVER WITH BIRDSCREEN AND FLORIDA PRODUCT APPROVAL.
2. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
3. PROVIDE LOUVERS WITH FLANGED FRAME. VERIFY FRAME TYPE WITH ARCHITECT.

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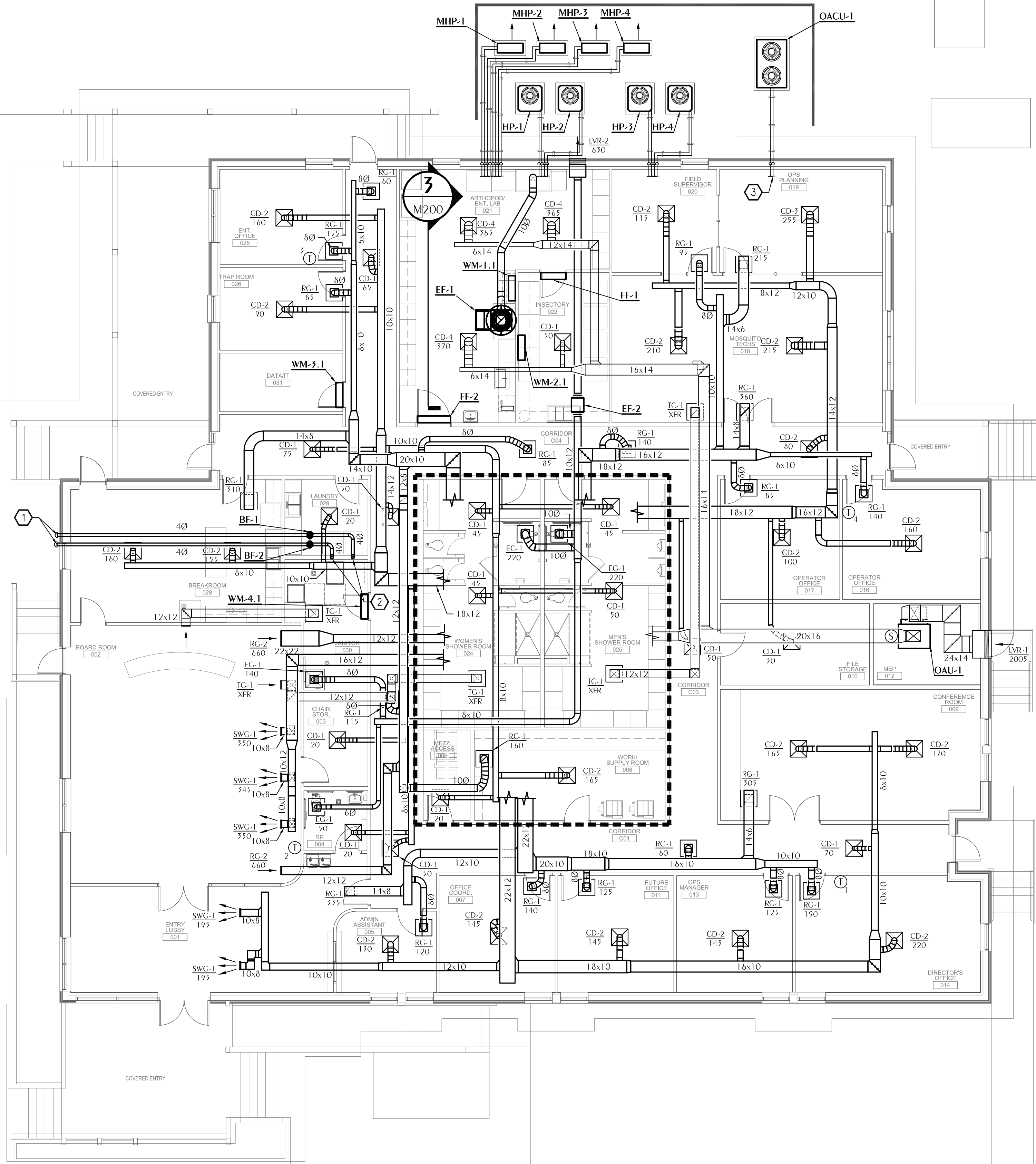
HVAC SCHEDULES



Project number: 18106
 Date: 06-20-2023
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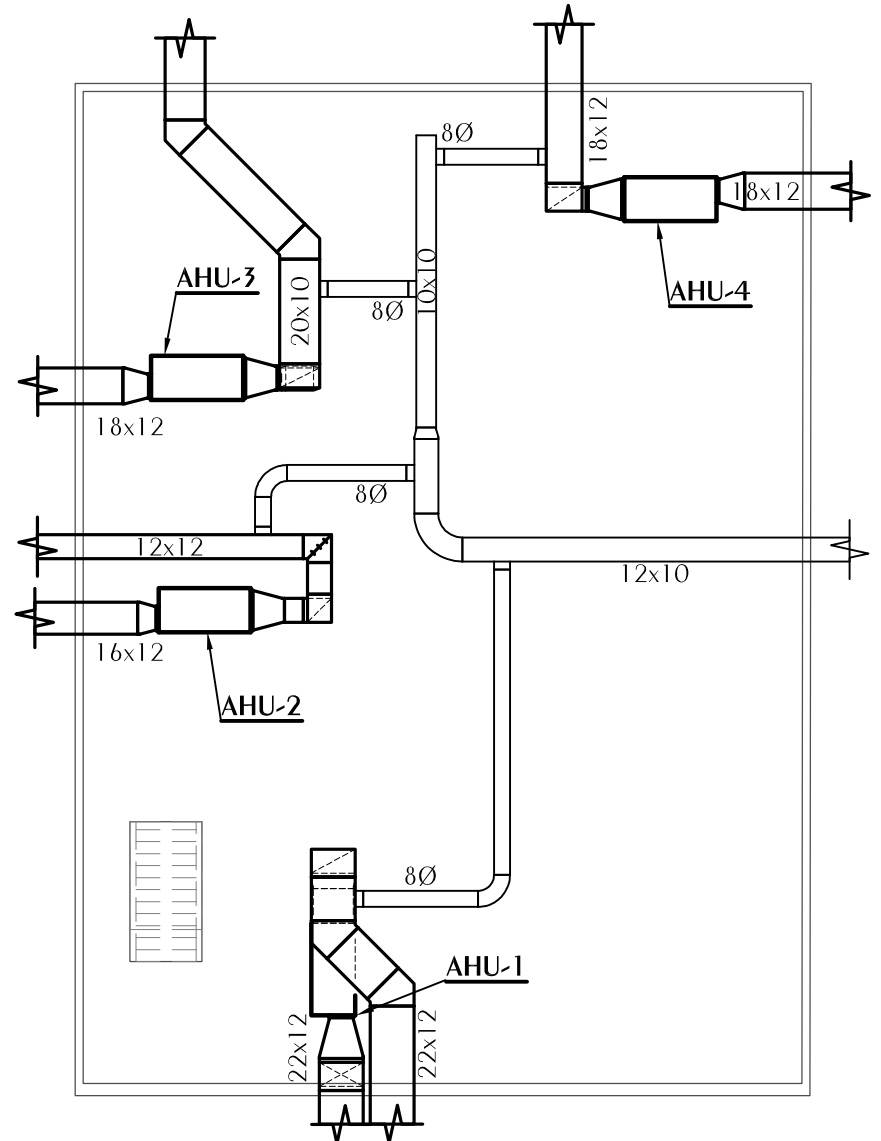
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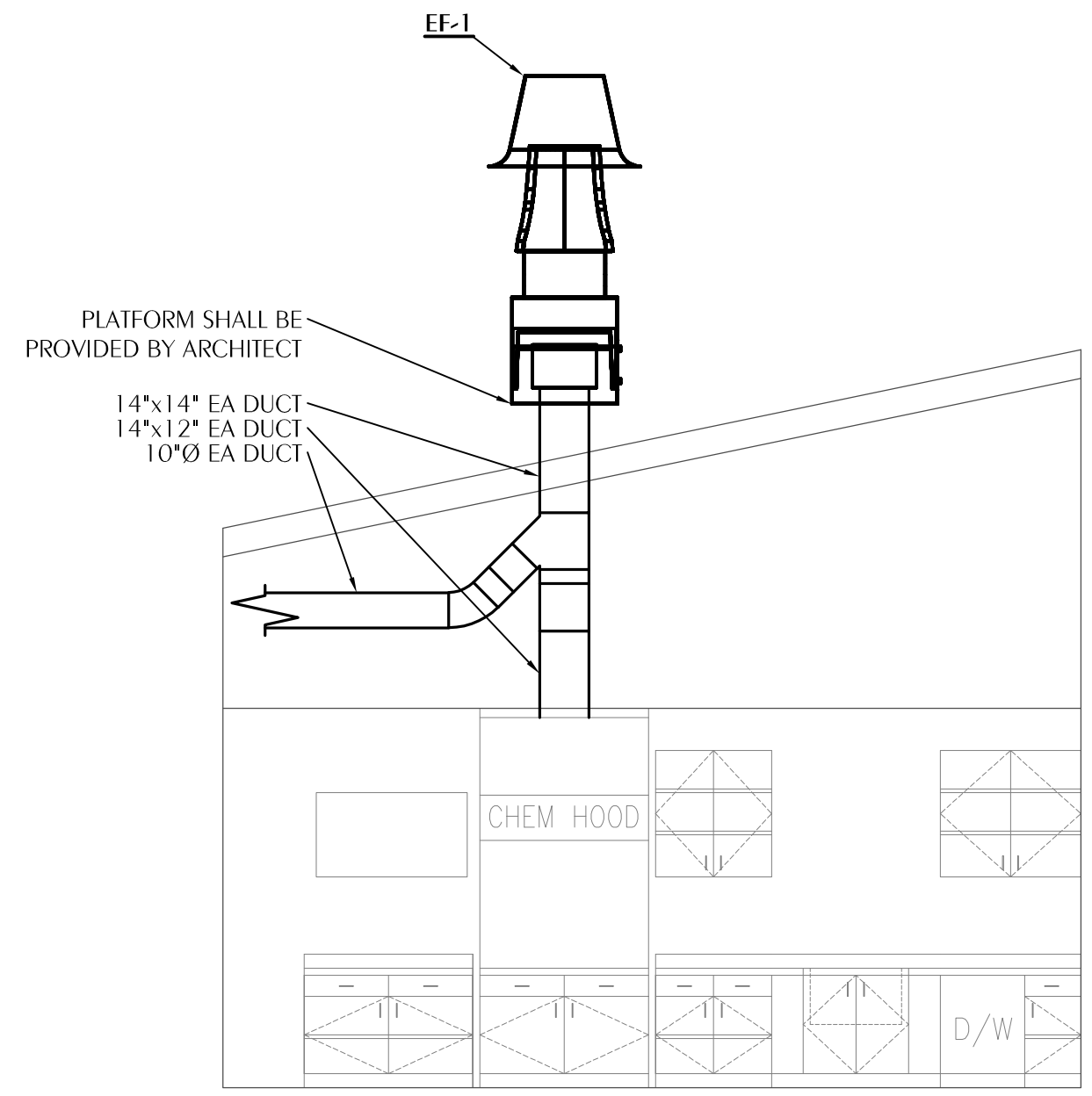
1 HVAC FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SHEET NOTES

- ① PROVIDE 6" DRYER EXHAUST WALL CAP. SEIHO SFZC-6 OR APPROVED EQUAL.
- ② PROVIDE UTILITY BOX IN WALL TO ALLOW CLOTHES DRYER EXHAUST DUCT TO RISE UP IN WALL CAVITY. BOX SHALL HAVE CONNECTION FOR 40" DUCT. BOX SHALL BE 22 GAUGE ALUMINIZED STEEL. DRYERBOX MODEL 425 OR APPROVED EQUAL.
- ③ ROUTE REFRIGERANT PIPING ABOVE CEILING TO CORRESPONDING UNIT. TYPICAL.



2 HVAC MEZZANINE PLAN
 SCALE: 1/8" = 1'-0"



3 HVAC SECTION CUT
 SCALE: 1/4" = 1'-0"



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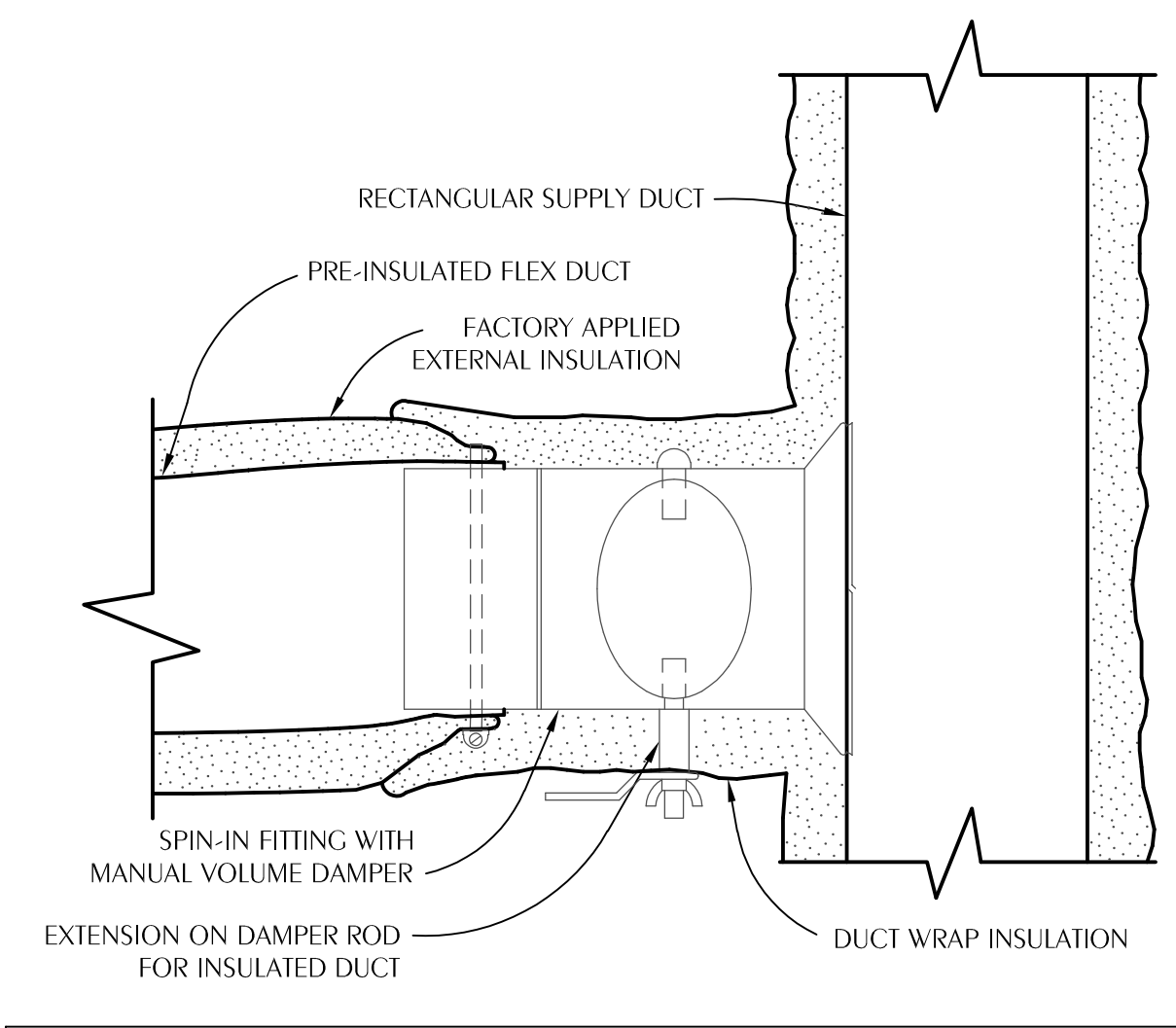
HVAC FLOORPLAN

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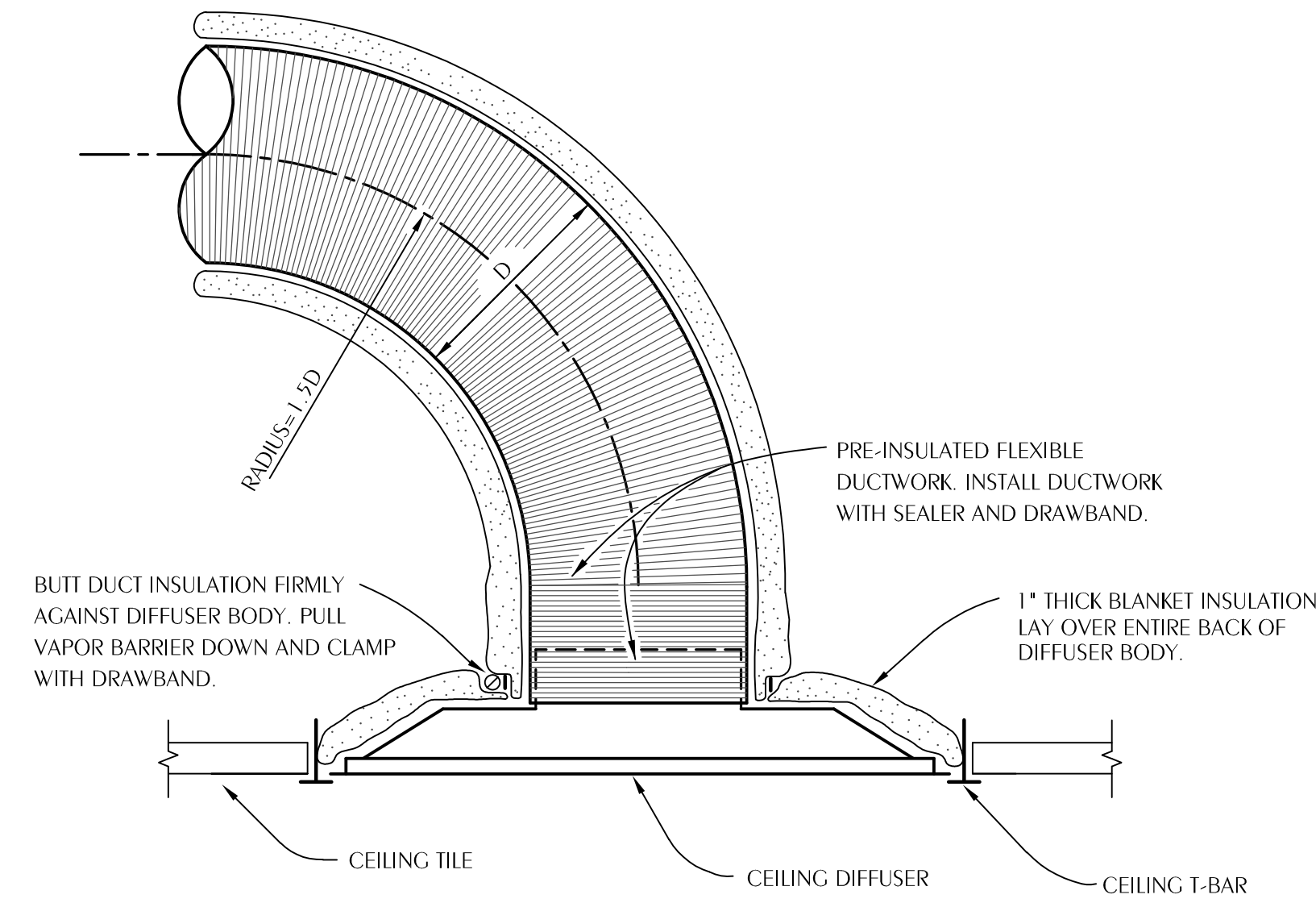
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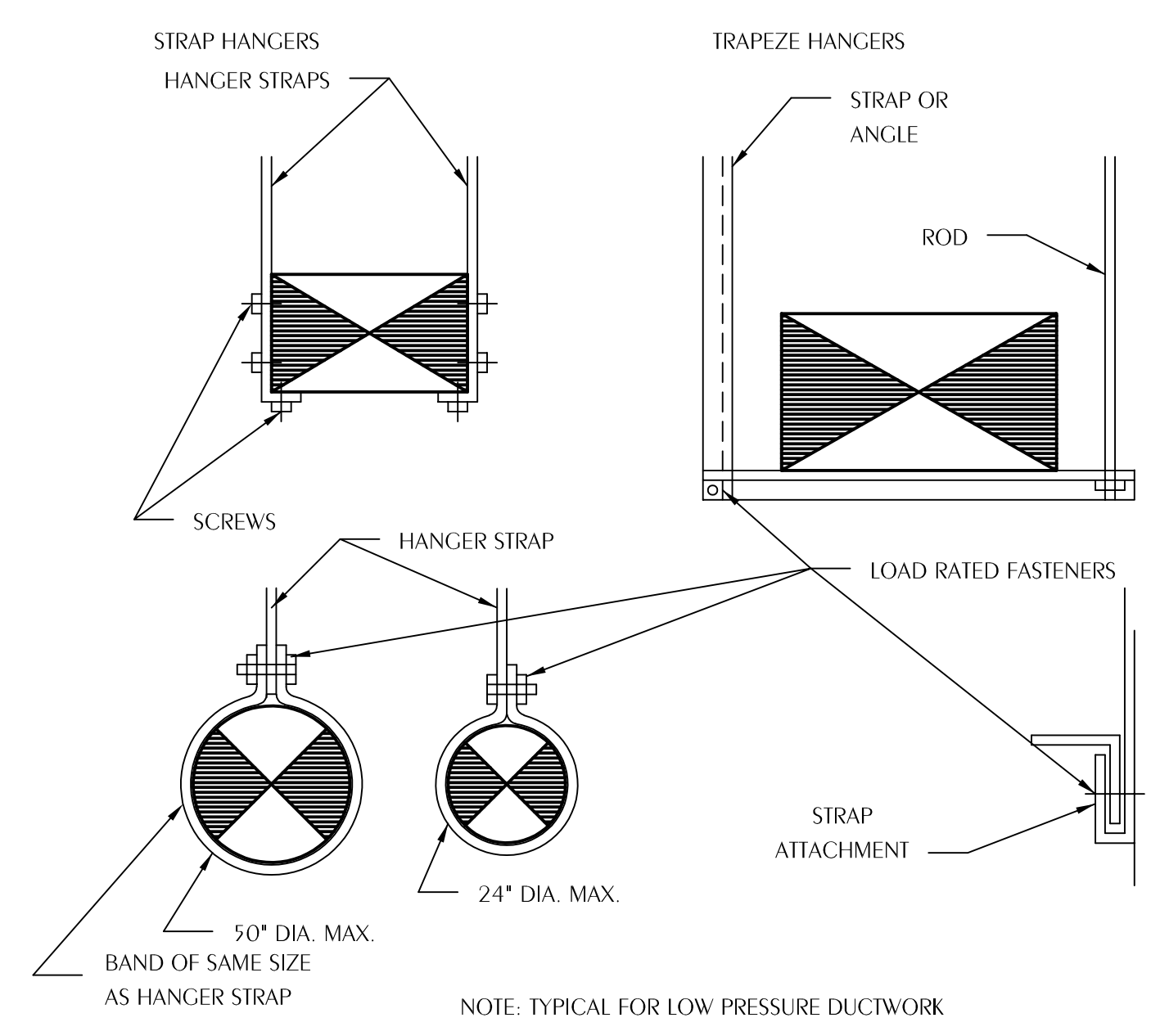
NOTES:
 CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.
 ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.
 PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKE OFFS LOCATED ABOVE HARD CEILINGS.

1 TYPICAL FLEX DUCT TAKEOFF DETAIL
 M300 SCALE: NONE

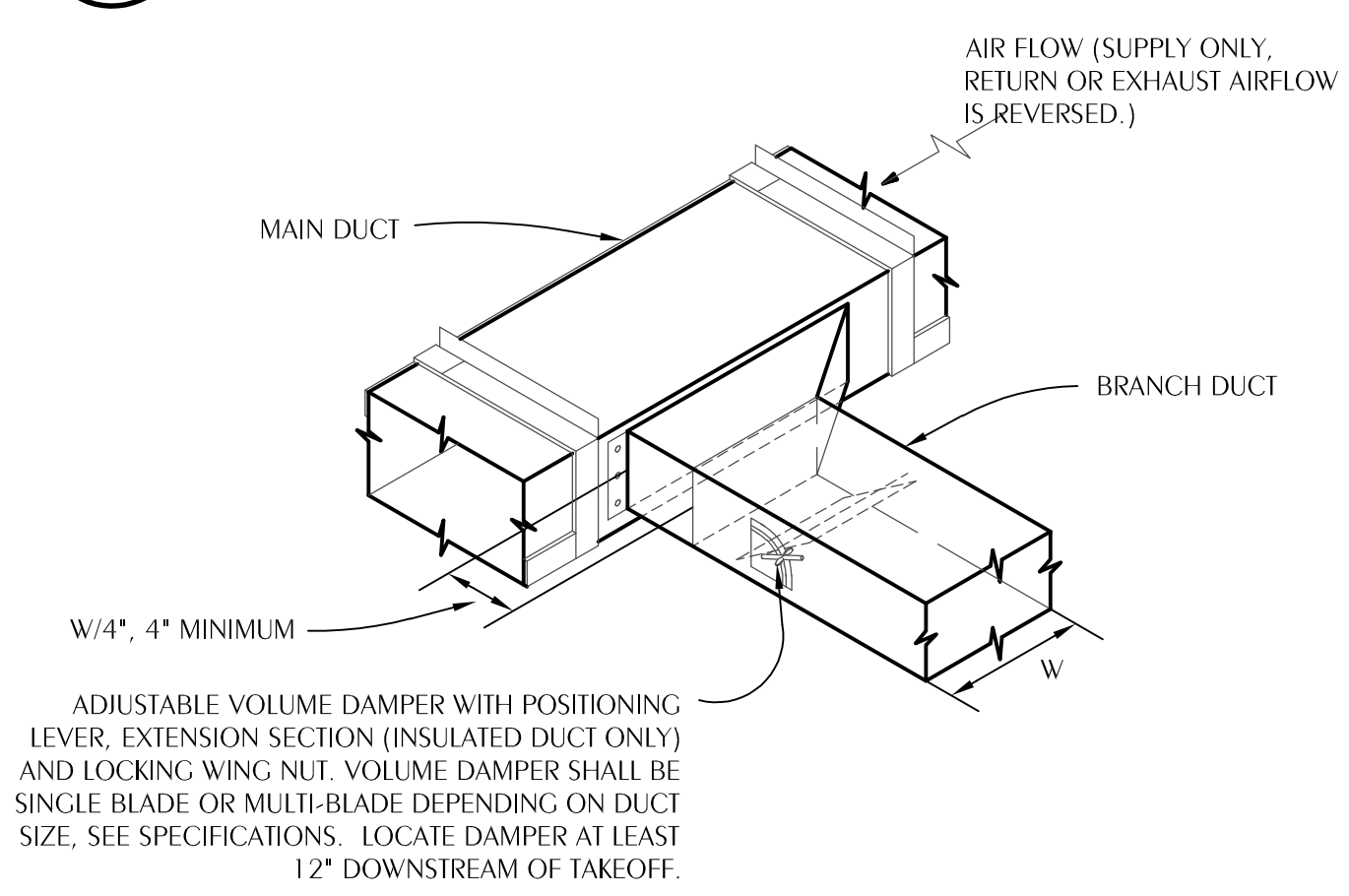


NOTES:
 FLEX DUCT SHALL BE NO LONGER THAN 5'-0\"/>

2 TYPICAL FLEX DUCT TAKEOFF DETAIL
 M300 SCALE: NONE

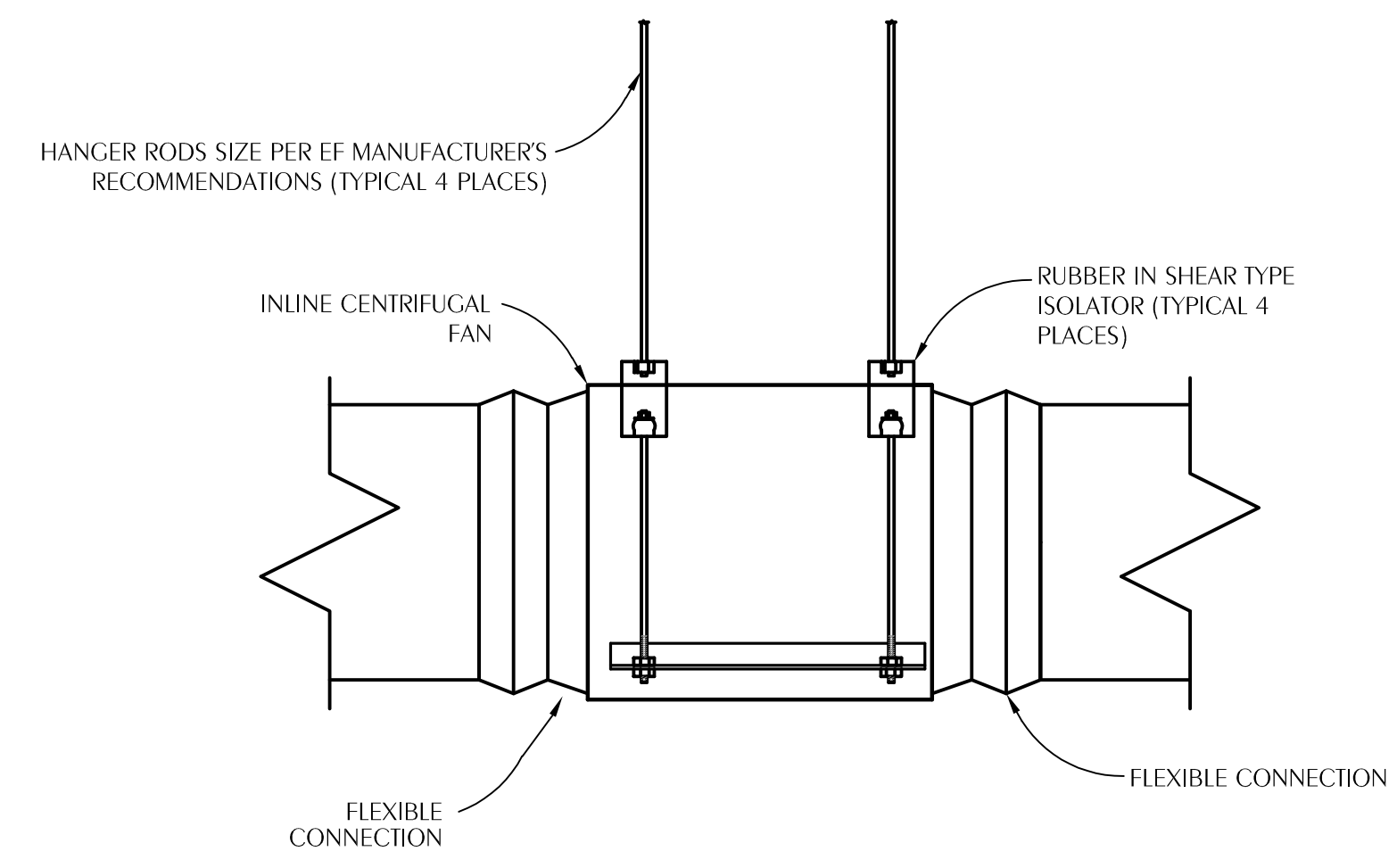


3 DUCT HANGER DETAILS
 M300 SCALE: NONE

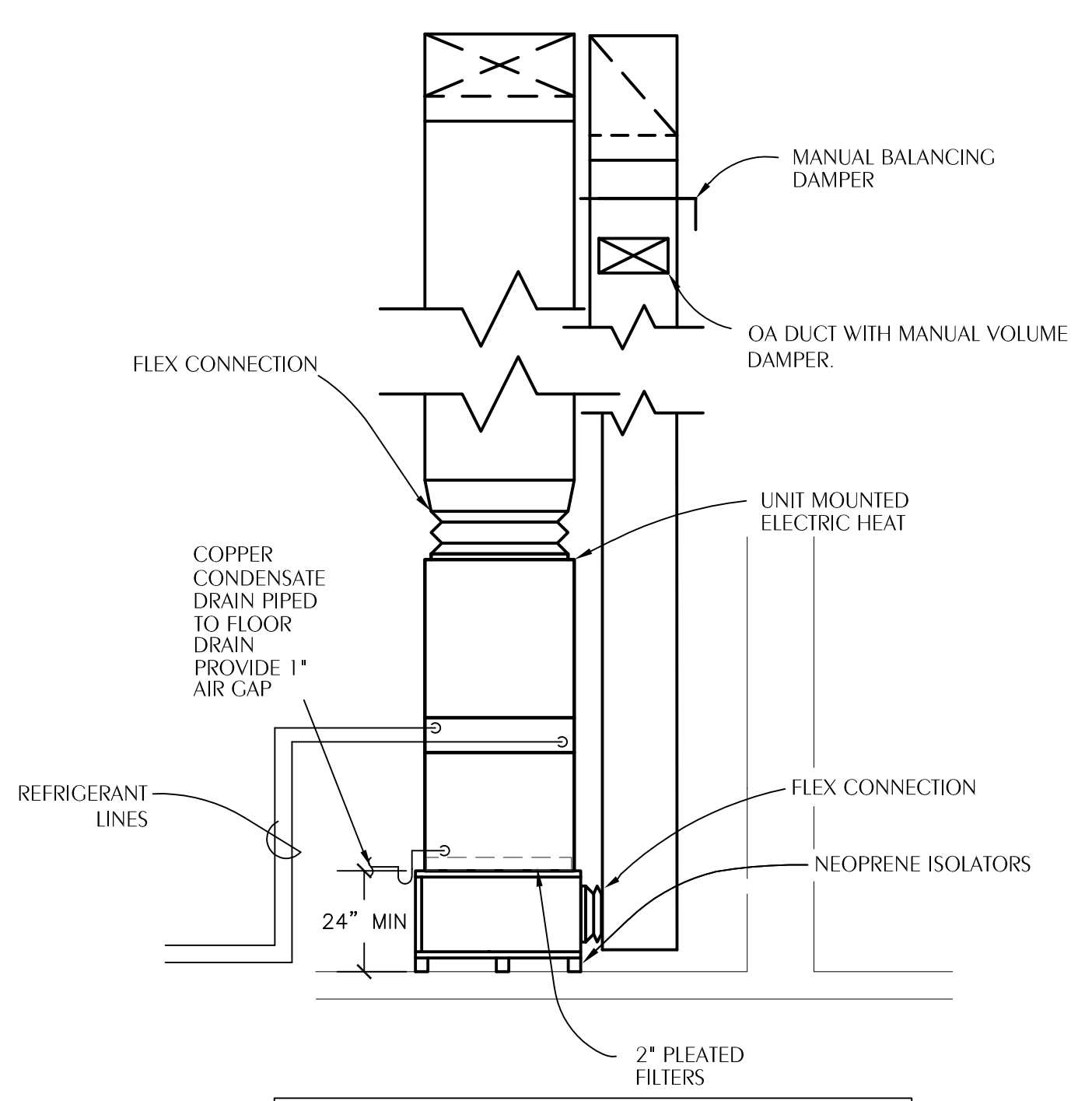


NOTES:
 PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKEOFFS LOCATED ABOVE HARD CEILINGS.

4 TYPICAL BRANCH DUCT TAKEOFF
 M300 SCALE: NONE



5 INLINE FAN DETAIL
 M300 SCALE: NONE



NOTES:
 SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.
 PROVIDE FACTORY FABRICATED RETURN AIR PLENUM OR ENGINEER APPROVED EQUAL WITH 2\"/>

6 VERTICAL UPFLOW AHU DETAIL
 M300 SCALE: NONE

WATFORD ENGINEERING
 4462 Clinton Street Marianna, Florida 32446
 311 N. College St. Office 1016 Auburn, AL 36830
 Florida CA Number: 27025
 KATH A. JOHNSON, P.E.
 Florida License Number: 96637
 850.538.5447
 Project Number: 2020-025
 Checked By: KAJ
 Drawn By: SSS

DAG ARCHITECTS
 DAG Architects, AAC000745
 1223 Airport Road Destin, Florida 32541
 850.837.8152 www.dagarchitects.com

**South Walton County Mosquito Control District
 New Headquarters Building**

774 North County Highway 393
 Santa Rosa Beach, Florida 32459

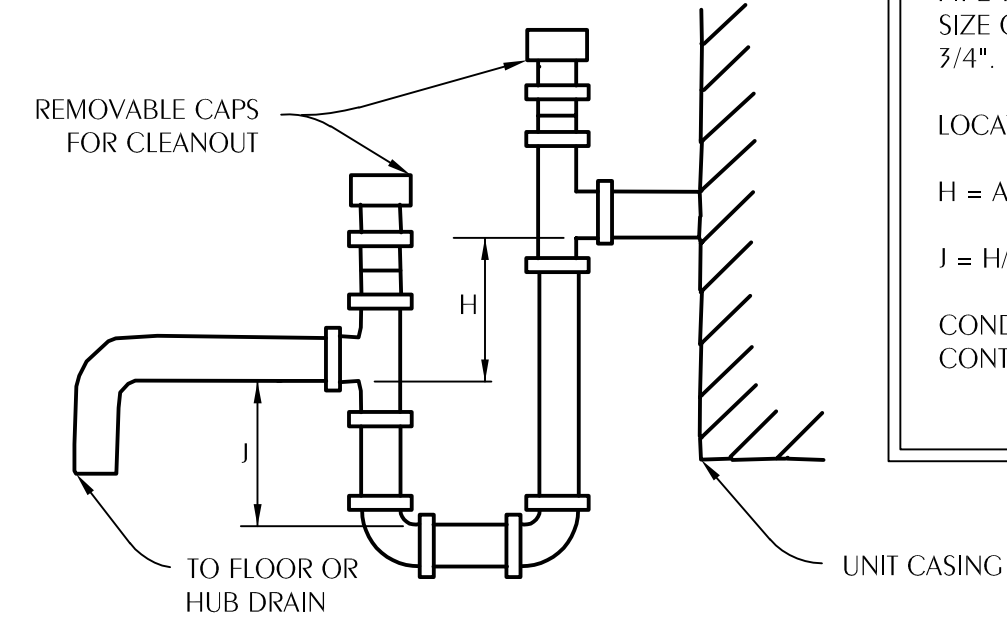
PERMIT SET

No.	Description	Date

HVAC DETAILS

Project number: 18106
 Date: 06-20-2023
 PIC: KAJ
 PM: KAJ

M300



NOTES:
 PIPE TYPE 'L' HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4\"/>

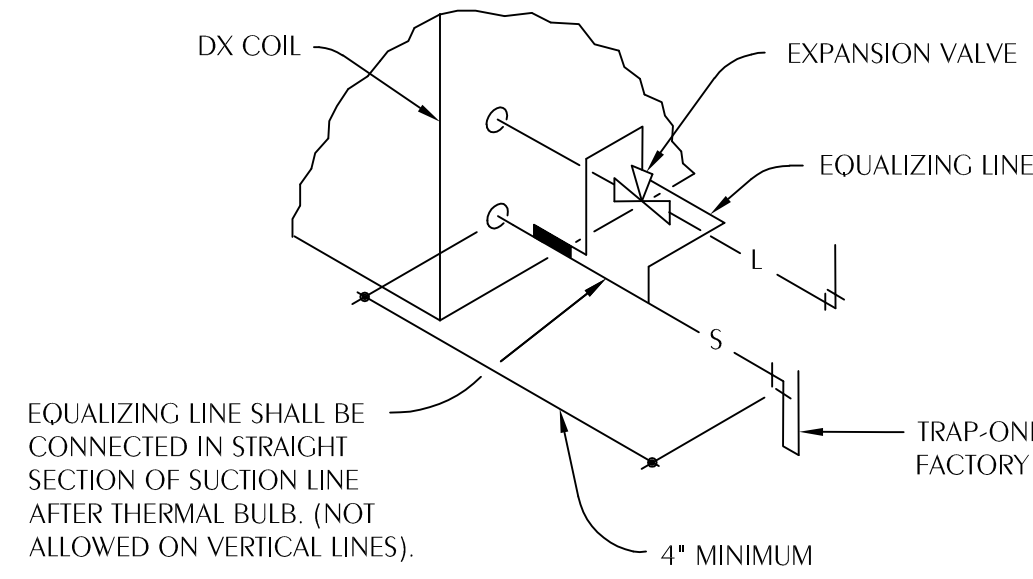
LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

$H = \text{AIR UNIT TOTAL STATIC PRESSURE} + 1"$

$J = H/2$

CONDENSATE PIPE SHALL BE PROVIDED BY THE HVAC CONTRACTOR.

1 **NEGATIVE PRESSURE CONDENSATE DRAIN TRAP**
 M301 SCALE: NONE



NOTES:
 THERMOSTATIC BULB TO BE AS CLOSE TO COIL AS POSSIBLE
 NOT ALLOWED ON VERTICAL LINES.

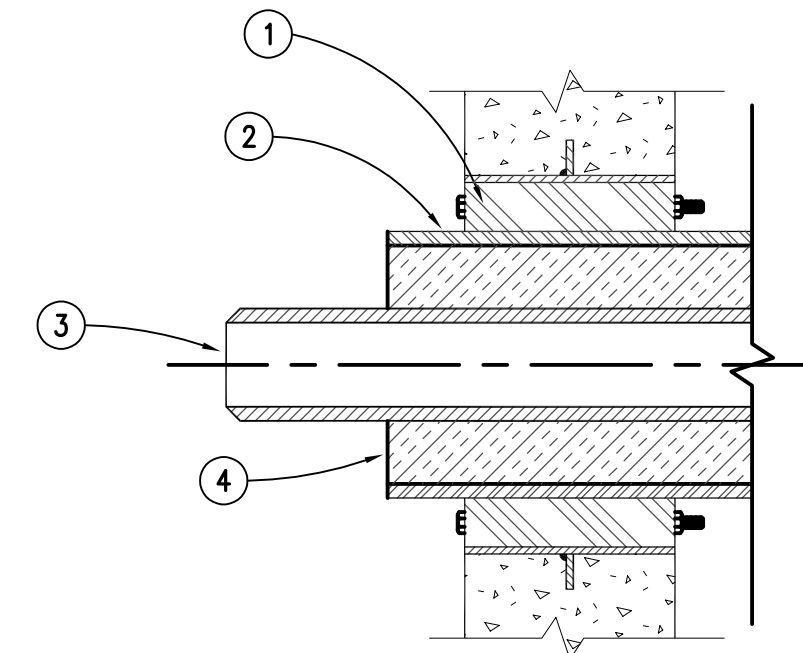
INSULATE REFRIGERANT LINES PER SPECIFICATIONS.

EQUALIZING LINE SHALL BE CONNECTED IN STRAIGHT SECTION OF SUCTION LINE AFTER THERMAL BULB. (NOT ALLOWED ON VERTICAL LINES).

4" MINIMUM

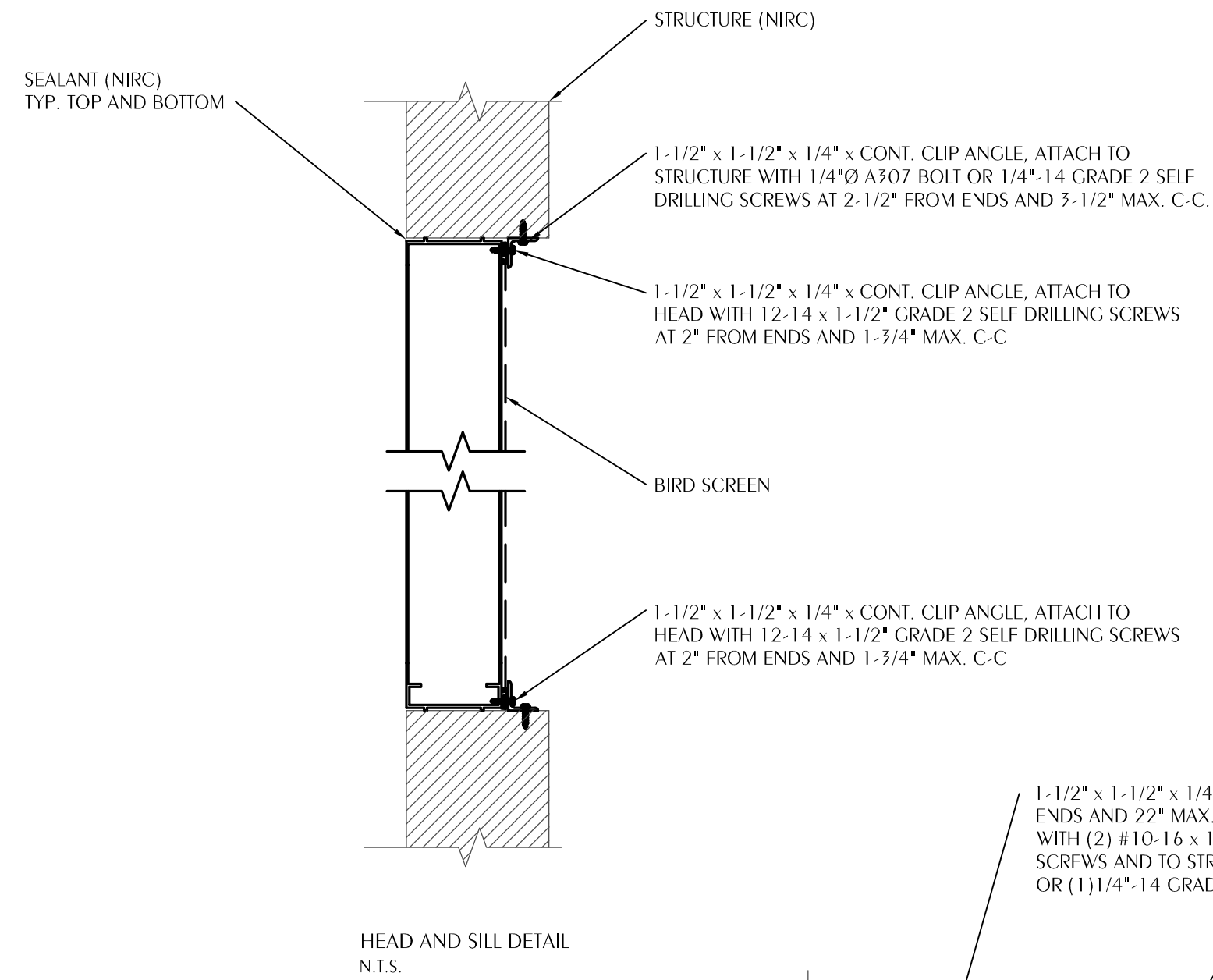
2 **REFRIGERANT COIL CONNECTION DETAIL**
 M301 SCALE: NONE

5/8" O.D. OR SMALLER
 7/8" O.D. OR LARGER



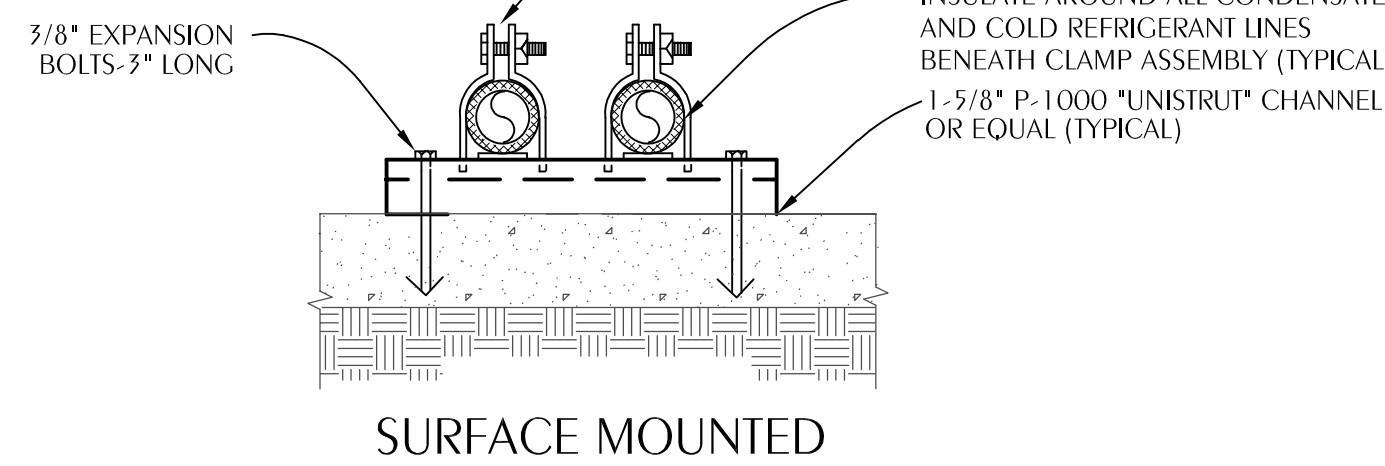
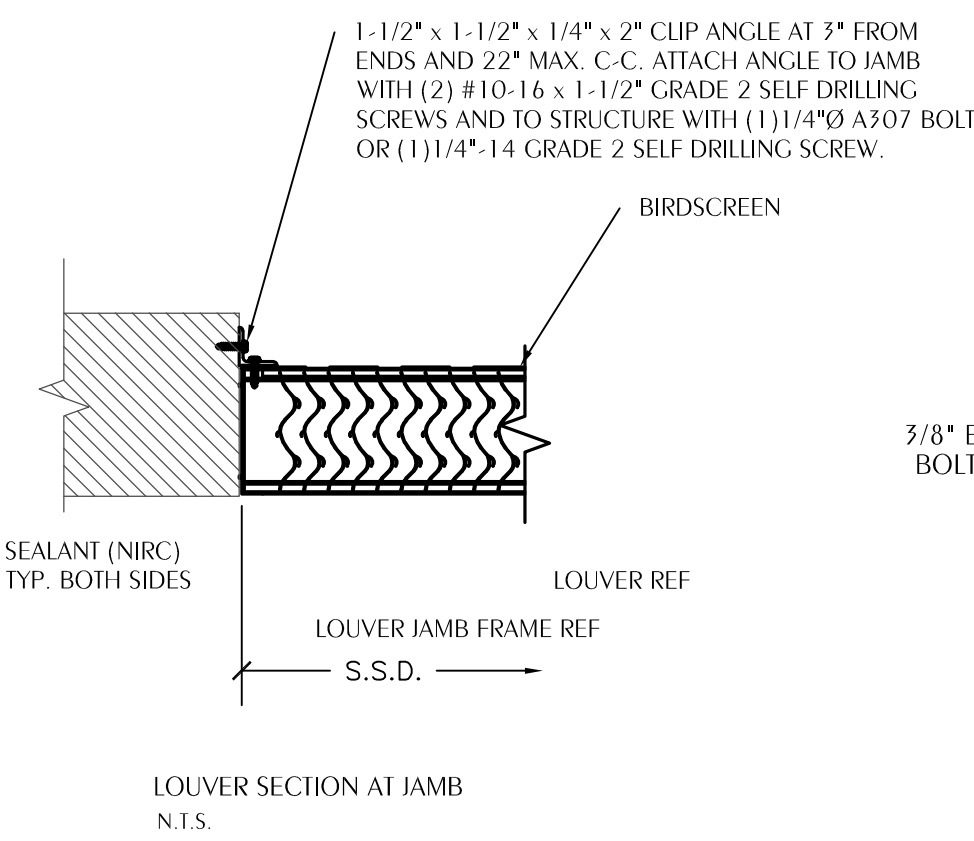
- 1 WALL OR FLOOR SEAL APPURTENANCES PER SPECIFICATIONS
- 2 PIPE SLEEVE PER SPECIFICATIONS
- 3 PIPING
- 4 INSULATION

3 **TYPICAL WALL PIPE PENETRATION**
 M301 SCALE: NONE



NOTES:
 1. THE INSTALLATION SHOWN HEREIN MUST BE FOLLOWED STRICTLY TO ENSURE COMPLIANCE WITH FLORIDA BUILDING CODE PRODUCT APPROVAL.
 2. CONTINUOUS INSTALLATION ANGLES AND FASTENERS ARE SHIPPED LOOSE AND REQUIRE INSTALLATION IN THE FIELD.
 3. SHIMS MAY BE REQUIRED TO ACHIEVE CONSISTENT CLEARANCE BETWEEN LOUVER AND OPENING ON ALL SIDES.

HEAD AND SILL DETAIL
 N.T.S.



NOTE:
 PROVIDE FACTORY END CAPS FOR CHANNEL.

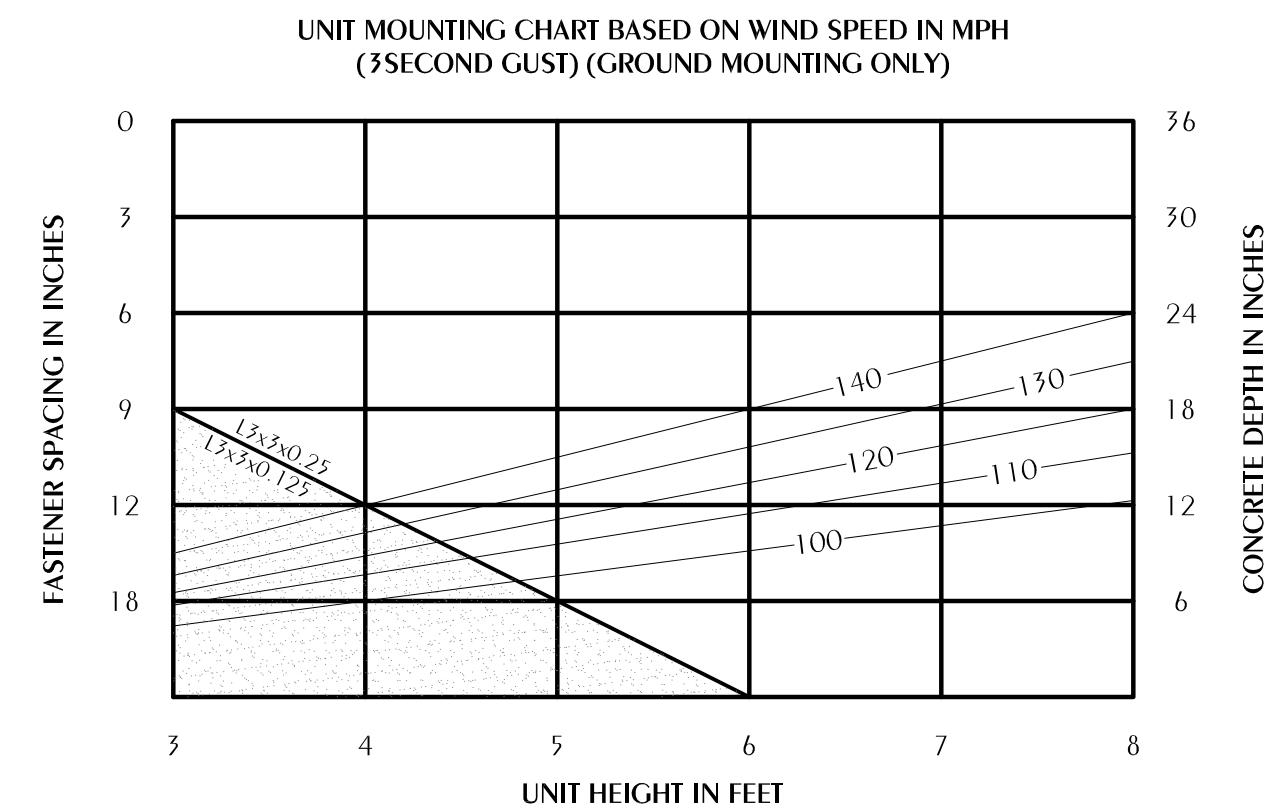
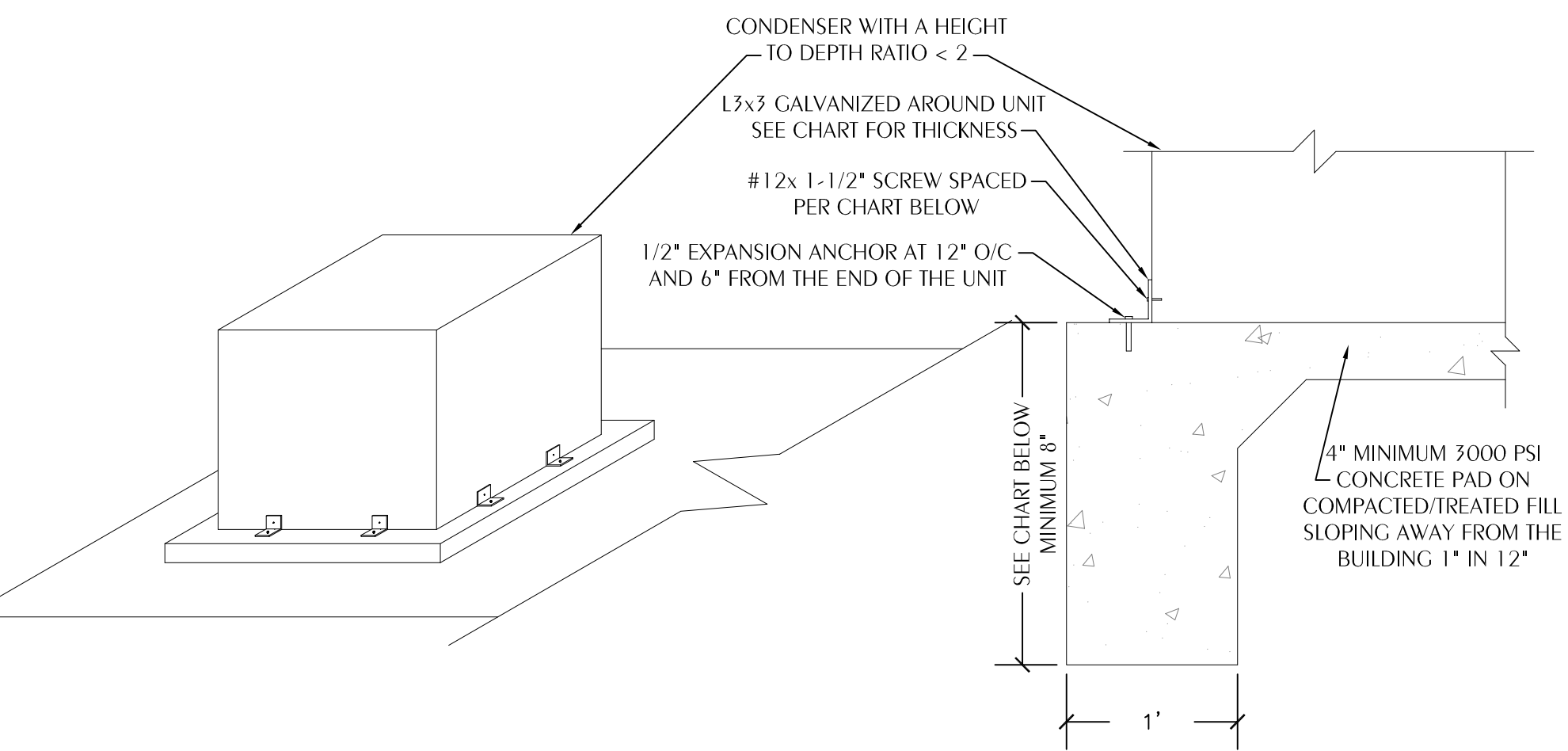
PROVIDE ALUMINUM JACKET BETWEEN INSULATION AND PIPE CLAMP AT ALL INDOOR LOCATIONS.

PROVIDE SMOOTH ALUMINUM JACKET OVER ALL EXPOSED OUTDOOR INSULATION.

PROVIDE SUPPORT AT INTERVALS REQUIRED BY THE FLORIDA BUILDING CODE AND PROJECT SPECIFICATIONS.

4 **WALL LOUVER DETAIL**
 M301 SCALE: NONE RUSKIN EME3625MD OR EQUAL
 MIAMI-DADE NOA NO. 20.1201.02

5 **TYPICAL EXTERIOR PIPING SUPPORT DETAIL**
 M301 SCALE: NONE



DESIGN CRITERIA:

CODE: ASCE 7-05
 VELOCITY: SEE BELOW
 K_z : 0.70
 K_{zt} : 1.00
 K_d : 0.85
 IMPORTANCE: 1.15
 EXPOSURE: B
 C_f : 1.3
 G_f : 0.85
 q_z :
 100 mph 17.52 psf
 110 mph 21.20 psf
 120 mph 25.22 psf
 130 mph 29.60 psf
 140 mph 34.33 psf
 P_{dstg} :
 100 mph 19.36 psf
 110 mph 23.42 psf
 120 mph 27.87 psf
 130 mph 32.71 psf
 140 mph 37.94 psf

6 **OUTDOOR MECHANICAL UNIT MOUNTING DETAIL**
 M301 SCALE: NONE

South Walton County Mosquito Control District
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774 North County Highway 393
 Santa Rosa Beach, Florida 32459

PERMIT SET

No.	Description	Date

HVAC DETAILS

WATFORD ENGINEERING
 4462 Clinton Street Marianna, Florida 32446
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Florida CA Number: 27825
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 Florida License Number: 96527
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 Project Number: 2020-025
 Checked By: KJA
 Drawn By: SSS

Project number: 18106
 Date: 06-20-2023
 PIC: KAJ
 PM: KAJ

M301