

EXTERIOR REFRIGERANT LINES WITH ALUMINUM JACKET, INSTALLED TO SHED WATER AND

5.SYSTEMS SHALL BE PLACED UNDER A VACUUM FOR REMOVAL OF NON-CONDENSABLES

6.SYSTEMS SHALL BE PRESSURE TESTED USING NITROGEN PRIOR TO BEING PUT INTO

SECURED WITH STAINLESS STEEL BANDS 12" O.C.

7.PIPES SHALL BE SIZED BY THE EQUIPMENT MFG.

PRIOR TO BEING PUT INTO SERVICE.

SERVICE.

LEGEND

THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED: FBC, BUILDING FLORIDA BUILDING CODE 8TH EDITION FBC, MECHANICAL FLORIDA BUILDING CODE 8TH EDITION FBC, EXISTING BUILDING FLORIDA BUILDING CODE 8TH EDITION FBC, FUEL GAS FLORIDA BUILDING CODE 8TH EDITION FBC, ENERGY CONSERVATIONFLORIDA BUILDING CODE 8TH EDITION FFPC FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT NFPA 54 NATIONAL FUEL GAS CODE NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS NFPA 101 LIFE SAFETY CODE NFPA 101A GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY NFPA 101B CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES NFPA 900 BUILDING ENERGY CODE ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS ADA AMERICAN WITH DISABILITIES ACT UL UNDERWRITERS LABORATORIES THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS. **DUCTWORK SPECIFICATIONS** 1.SHEET METAL DUCTWORK

CODE REFERENCE

ALL MAY NOT APPLY

1.1.DUCT MATERIAL CLASS "A" GALVANIZED STEEL OR ROLLED STEEL IN COMPLIANCE WITH SMACNA 205-3RD EDITION LOW/MEDIUM PRESSURE DUCT STANDARDS TABLE 1.1. DUCTS SHALL BE TESTED, VERIFIED AND RECORDED IN ACCORDANCE WITH ASHRAE 90.1-2013 REQUIREMENT BASED ON LEAKAGE RATE LESS THAN 4% PER 100SF OF DUCT. 1.2. SEALER: LOW VOC MASTIC PAINT.

2.1.LINES SHALL BE RUN STRAIGHT, LEVEL, PLUMB, AND ROUTED AS INDICATED IN THESE DRAWINGS. ALL LABELED DUCT DIMENSIONS ARE INTERNAL SIZES AND INDICATE FULL INSIDE CLEAR FREE AREA.

2.2.MINOR MODIFICATIONS TO DUCT ROUTING DUE TO OBSTRUCTIONS OR COORDINATION WITH OTHER TRADES WILL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER. ANY CHANGES IN SIZE TO DUCTWORK MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION. 2.3. ALL MITERED RECTANGULAR DUCT 90 DEGREE ELBOWS SHALL BE PROVIDED WITH

TURNING VANES. 2.4. ALL SUPPLY, RETURN AND EXHAUST DUCTS SHALL BE EXTERNALLY INSULATED UNLESS OTHERWISE NOTED. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE MICROLIGHT XL 2" THICK 0.75 PCF R6.0 OUT OF THE BOX WITH FSK VAPOR BARRIER. SEAL WITH FIRE RATED MASTIC SEAL PER UL-181A-M AT ALL JOINTS AND SEAMS; OR APPROVED ACRYLIC FOIL PRESSURE SENSITIVE TAPE PER UL-181A-P APPLIED USING SQUEEGEE APPROVED METHOD AT JOINTS AND SEAMS. RUBBER BASE TAPES ARE NOT ALLOWED.

2.5. DUCTBOARD IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD.

2.6. DUCTS SHALL HAVE MINIMUM INSULATION VALUES AS LISTED IN FBC-EC 403.2.9.1.

3.FLEXIBLE DUCTS:

3.1. DUCT TO AIR TERMINALS SHALL BE LIMITED IN LENGTH AS SHOWN IN DETAILS. 3.2. SHALL BE UL LISTED AS A CLASS 1 AIR DUCT COMPLYING WITH UL STANDARD 181, NFPA 90A & 90B AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE DEVELOPMENT RATING NOT OVER 50.

3.3. SHALL HAVE A POSITIVE OPERATING PRESSURE OF 10" MINIMUM. FLEXIBLE DUCT SHALL HAVE BEEN TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 200°F UNDER CONTINUOUS OPERATION.

3.4. SHALL BE RATED FOR A MINIMUM AIR VELOCITY OF 5000 FPM. 3.5. INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4 PCF DENSITY FIBERGLASS. SUPPLY DUCTS SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 4.2, BUT R-6 FOR SUPPLY DUCT IN ATTIC AND OUTDOOR SPACES. OUTER LINER SHALL BE A BI-DIRECTIONAL FIBERGLASS REINFORCED METALIZED VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS.

3.6. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHERE REQUIRED. FLEXIBLE DUCT SHALL HAVE A FULL 10-YEAR WARRANTY. 3.7. INNER LINER SHALL CONSIST OF A CPE CORE PERMANENTLY BONDED TO A COATED

SPRING STEEL WIRE HELIX (MIN. 041" THICK). 3.8. SHALL BE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8M OR EQUAL. 3.9. SHALL BE SUPPORTED SO THAT HORIZONTAL RUNS ARE STRAIGHT AND WITHOUT SAGS OR BENDS. SHEET METAL SADDLES SHALL BE PROVIDED AT ALL HANGERS FOR FLEX DUCTS TO PREVENT KINKING OF THE DUCTS AND EXCESSIVE COMPRESSION OF THE INSULATION.

1.ONLY NEW EQUIPMENT SHALL BE PROVIDED UNLESS INDICATED AS EXISTING TO REMAIN.

2.ALL CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE REGIONS FOR VIBRATION ISOLATION.

HVAC GENERAL NOTES

3.ALL EQUIPMENT SHALL BE LABELED SO THAT USERS CAN IDENTIFY EACH PIECE OF EQUIPMENT. LABELS SHALL BE CONSISTENT WITH EQUIPMENT TAGS THAT ARE LISTED IN THE SCHEDULES WITHIN THESE DOCUMENTS. ANY ABOVE CEILING EQUIPMENT SHALL HAVE A LABEL PROVIDED ON THE CEILING BELOW THE UNIT FOR EASE OF LOCATING BY MAINTENANCE PERSONNEL.

4.ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.

5.INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE CEILING.

S.COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL EQUIPMENT SO THAT THE REQUIRED CODE CLEARANCES TO ELECTRICAL EQUIPMENT IS

'.DUCTWORK AND PIPING INSTALLATIONS SHALL ALLOW FOR EQUIPMENT RECOMMENDED MAINTENANCE CLEARANCES. CONVENIENT ACCESS FOR REMOVAL OF FILTERS SHALL BE MAINTAINED.

8.MATERIALS INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE.

9.COORDINATE THE PLACEMENT AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND LIGHTING LAYOUT.

10.THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.

11.AT THE ONSET OF TEST AND BALANCE ACTIVITIES PROVIDE NEW FILTERS TO ALL UNITS. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. SEAL ALI OPEN ENDED DUCTS DURING CONSTRUCTION.

12.ENSURE ALL EQUIPMENT HAS BEEN CLEANED AT THE END OF THE PROJECT.

13.DO NOT LOCATE AIR INTAKES CLOSER THAN 10 FEET FROM ANY VENT OR EXHAUST OUTLETS. ROUTE TOILET EXHAUST TO LOCATION SHOWN ON PLANS. WALL CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BACKDRAFT DAMPER, BIRD AND INSECT

14.PROVIDE FIRE DAMPER IF SHOWN ON PLANS, WHERE DUCT PENETRATES FIRE-RATED CONSTRUCTION. ATTACH 1/2" OR LARGER TEXT LABELING THE DAMPER ACCESS LOCATION(S). EQUIVALENT APPLIES FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER.

15.INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIVISION 26) IN SUPPLY AIR DUCT BEFORE ANY TAKE OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY OF 2000 CFM OR GREATER.

16.WHERE FIRE, SMOKE, COMBINATION FIRE SMOKE DAMPERS CONTROL DAMPERS, VALVES, COILS OR OTHER DEVICE NEEDING ACCESS ARE INSTALLED, PROVIDE DUCT ACCESS DOORS. WHERE INSTALLED IN INACCESSIBLE LOCATIONS, PROVIDE CEILING/WALL ACCESS PANELS. PANELS LOCATED IN RATED ASSEMBLIES SHALL BEAR A UL RATING. COORDINATE LOCATION OF SUCH ACCESS WITH ARCHITECT PRIOR TO

17.PROVIDE MEANS OF TEST AND BALANCE IN ALL TAKE OFF FITTINGS OF SUPPLY EXHAUST, RETURN SYSTEMS AND AT EACH POINT WHERE A BRANCH SERVES TWO OR MORE GRILLES, WHETHER SHOWN ON THE PLANS OR NOT.

18.WHERE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCH TAKES PRECEDENCE. CONTROLLERS SHALL BE MOUNTED ADJACENT AND WITHIN 48" AFF.

9.PRODUCE MANAFACTURER'S INSTALLATION INSTRUCTION AT INSPECTION PER FBC-

19.1.SPLIT A/C EQUIPMENT: LENNOX, TRANE, CARRIER, DAIKIN 19.2.AIR DISTRIBUTION: PRICE, METALAIRE, TITUS 19.3. FANS: PENNBERRY, GREENHECK, BROAN, PANASONIC, COOK 19.4.LOUVERS: GREENHECK, RUSKIN, POTTORF

DESIGN CRITERIA

BUILDING TYPE GROUP B, BUSINESS

CLIMATE ZONE 2A, MADISON, FLORIDA

OUTDOOR DESIGN CONDITIONS (SUMMER) 95 DEG Fdb, 77 DEG Fwb

OUTDOOR DESIGN CONDITIONS (WINTER) 20 DEG Fdb

INTERIOR DESIGN CONDITIONS 75 DEG F COOLING, 72 DEG F HEATING

CONDENSATE PIPING

.CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS. 2.ALL CONDENSATE DRAIN PIPE SYSTEMS SHALL HAVE A BUILT TRAP AT EACH PIECE OF EQUIPMENT PER DETAILS.

3.ALL LINES SHALL BE INSULATED WITH 1/2" ARMAFLEX FROM EQUIPMENT TO APPROVED DISPOSAL POINT OR OUTSIDE AT GRADE IN COMPLIANCE WITH FBC-M 307.2.1. OUTSIDE DISPOSAL AT EARTH SHALL BE MINIMUM 1 FOOT AWAY FROM BUILDING STRUCTURE AND FOUNDATION.

4.TRAP AIR CONDITIONING CONDENSATE AND RUN TO LOCATION SHOWN ON PLANS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRST 12" OF CONDENSATE PIPE, INCLUDING TRAP. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDENSATE PIPE AFTER 12" OF PIPE FROM THE UNIT, UP TO AND INCLUDING CONDENSATE

5.COVER ALL EXTERIOR CONDENSATE LINES WITH ALUMINUM JACKET, INSTALLED TO SHED WATER AND SECURED WITH STAINLESS STEEL BANDS 12" O.C.

6.IF OTHERWISE UNSPECIFIED, TERMINATE CONDENSATE INTO STORM CONNECTION, OR ARCHITECT-APPROVED GRAVEL PATCH OR DRYWELL AT LEAST 12" AWAY FROM BUILDING.

PROVIDE CONDENSATE SAFETY SWITCH AND UNIT SHUTOFF SEQUENCE IN THE EVENT OF CONDENSATE OVERFLOW OR BACKUP.

8.CONDENSATE DRAIN SIZING (PER FBC-M TABLE 307.2.2)

UP TO 20 TONS 3/4" DIAMETER 21 TO 40 TONS 1"DIAMETER 41 TO 90 TONS 1 1/4"DIAMETER 91 TO 125 TONS 1 1/2" DIAMETER 126 TO 250 TONS 2" DIAMETER

251 AND ABOVE SIZED BASED ON ACTUAL FLOW

GENERAL NOTES

1.THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.

2.THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES 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 OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

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.PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.

7.PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.

8.DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.

9.THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.

10.THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT

I1.ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN WHO ARE TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS

INCIDENTAL TO THE PROJECT. 12.ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPS REGULATIONS AND

13.THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.

14.REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS, AND BARRICADES FOR

15.COORDINATE ALL DEMOLITION, CLEANING, AND CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE OWNER A FULL CONSTRUCTION SCHEDULE.

16.CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.

17.THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED

SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER. 18.ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND

FREE OF DEFECTS. 19.IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY

THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.

20.SUPPORTS, HANGERS, WIRING, AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.

21.ALL ROOF EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 120 MPH WIND

22.PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED. 23.CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A

SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES. 24.STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR, OR BEAM

SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

25.CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.

26. VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING

MECHANICAL SHEET INDEX

NUMBER	SHEET NAME	
M001	HVAC NOTES & LEGENDS	
M101	HVAC FLOOR PLAN	
M501	HVAC DETAILS	
M502	HVAC DETAILS	
M601	HVAC SCHEDULES	

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Robert E. Gelhardt II, PE#77568

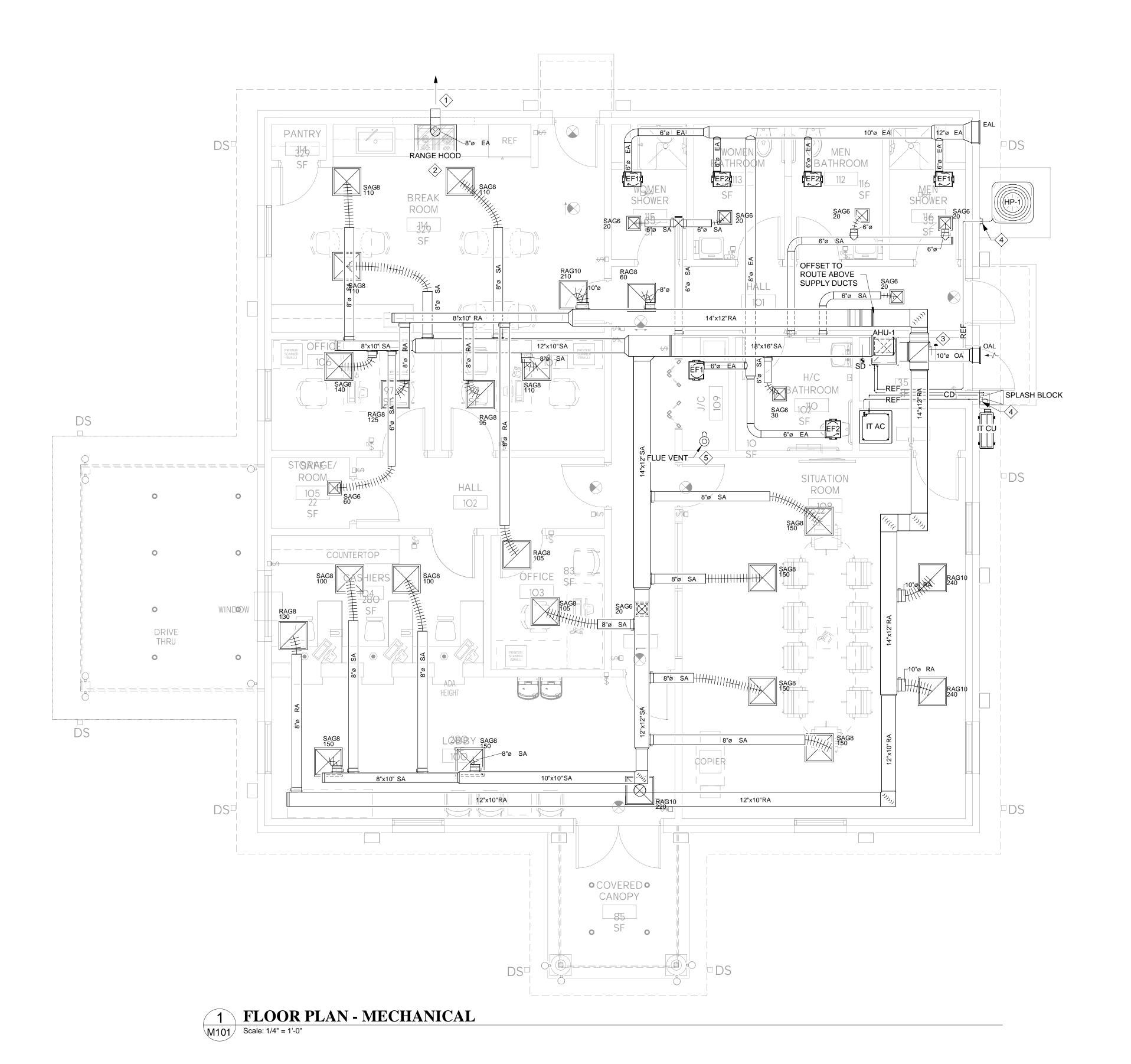
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PHASE: PERMIT PLANS

HVAC NOTES &

LEGENDS



MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL ROUTE NEW DUCTS WITHIN CEILING SPACE

2. NEW DUCT WORK SHALL USE SHEET METAL DUCTS. NO DUCTBOARD.

3. CONTRACTOR SHALL PROVIDE ALL NEW GRILLES.

4. COORDINATE EXACT LOCATION OF GRILLES INTO THE CEILING ON SITE. OFFSETS TO GRILLES MORE THAN ONE ACT TILE NEEDS APPROVAL OF EOR OR ARCHITECT.

5. CONTRACTOR SHALL COORDINATE WITH TRUSS MANUFACTURER, OFFSET DUCTS IN ATTIC AS NEEDED.

X MECHANICAL KEYED NOTES

- THROUGH WALL WITH MANUFACTURER PROVIDED WALL CAP TERMINATION AND INSECT SCREEN.
- PROVIDE RESIDENTAIL STYLE RANGE HOOD WITH ANSUL FIRE PROTECTION SYSTEM.

 INSTALL MOTORIZED DAMPER IN OA DUCT MOTORIZED
- INSTALL MOTORIZED DAMPER IN OA DUCT. MOTORIZED DAMPER SHALL BE AT MIN POSITION WHEN UNOCCUPIED AND OPEN (BALANCED TO VENTILATION RATE LISTED IN SCHEDULE) WHEN OCCUPIED.

 INSTALL SHROUD OVER EXTERIOR REFRIGERANT PIPING
- AND SEAL AROUND THE CONNECTION TO THE BUILDING WITH SILICONE CAULKING TO MAKE AN AIR AND WATER TIGHTSEAL. THE EXPOSED EXTERIOR REFRIGERANT PIPING SHALL BE INSULATED AND COVERED WITH ALUMINUM JACKETING
- 5 FLUE VENT FOR GAS WATER HEATER, SEE DETAIL.



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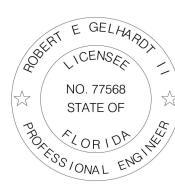
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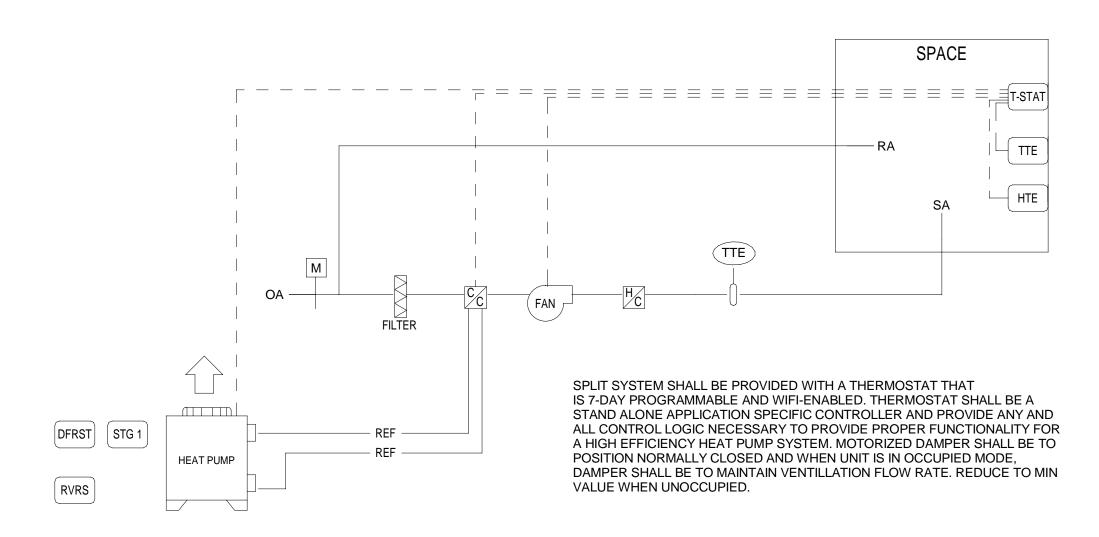
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PHASE: PERMIT PLANS

HVAC FLOOR PLAN

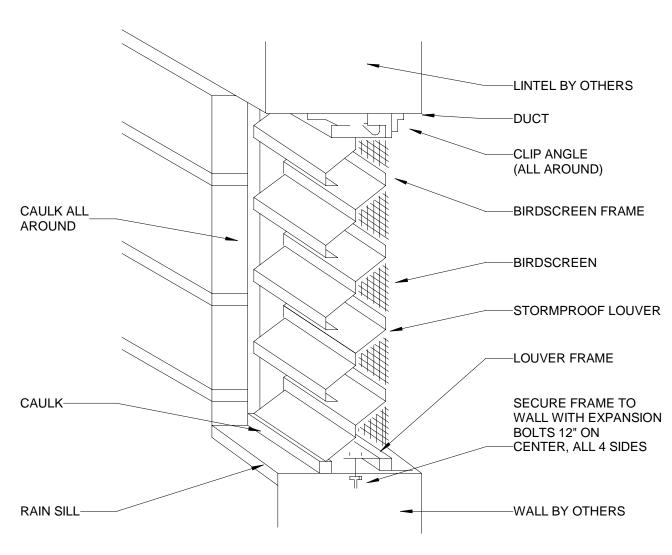


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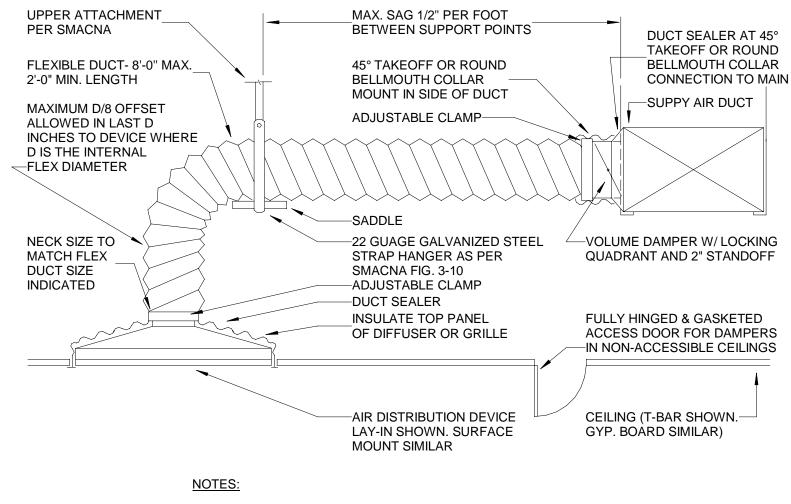




4 EXHAUST FAN DETAIL







- 1. FLEXIBLE DUCTS SHALL BE IN ONE PIECE AND SHALL NOT BE SPLICED TOGETHER.
- 2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
- 3. FLEXIBLE AIR DUCT SHALL NOT EXCEED 8 FT. WHEN EXTENDED. ELBOW RADIUS SIZED FOR NO LESS THAN R/D=1.0.
- 4. FLEXIBLE AIR DUCT SHALL NOT BE LESS THAN 5 FEET FOR ACOUSTICAL PURPOSES.

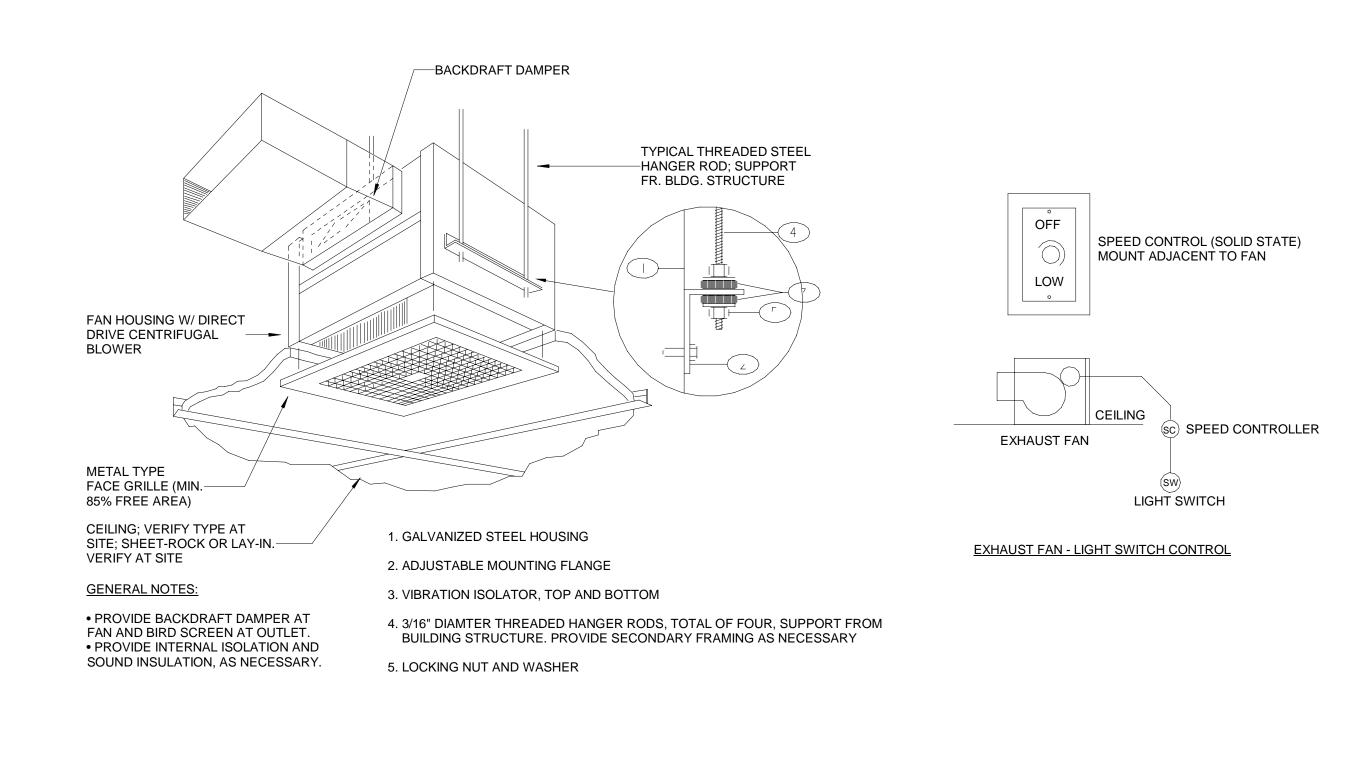
MAINTAIN 12" MIN. CLEARANCE

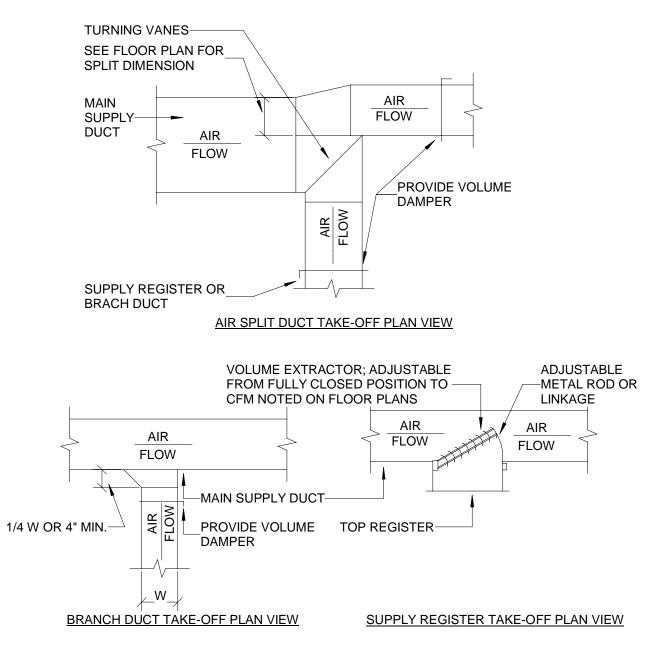
ABOVE HIGHEST ANTICIPATED

SNOW LEVEL. MAXIMUM OF 24"

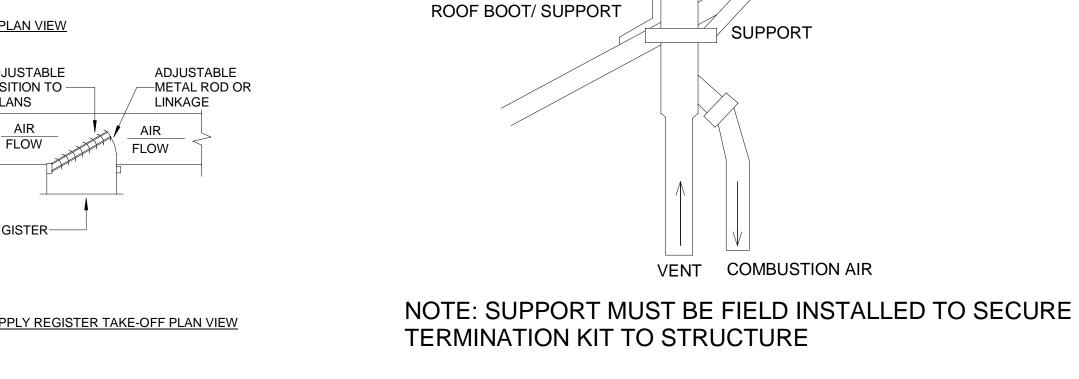
ABOVE ROOF.







5 SUPPLY DUCTWORK TAKE-OFF DETAIL





COMBUSTION AIR



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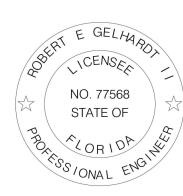
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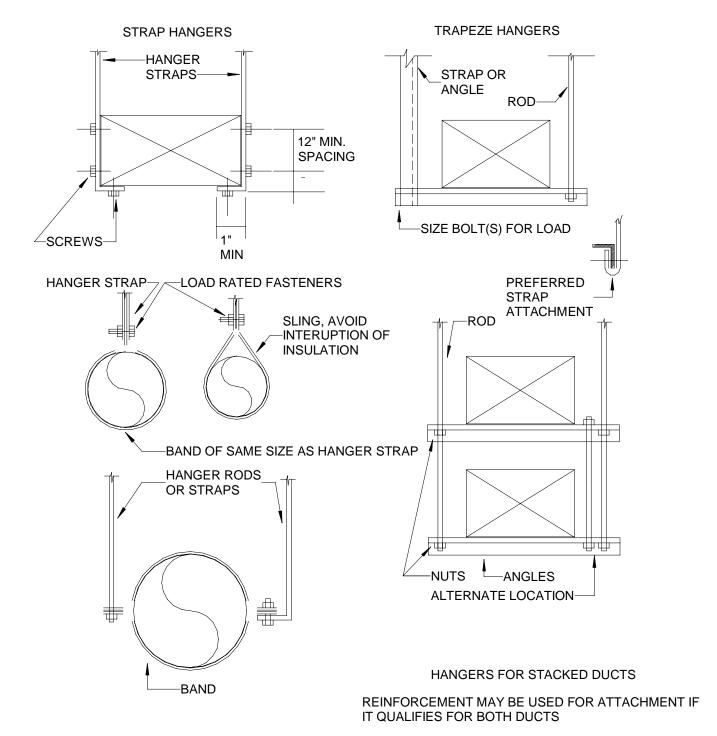
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HVAC DETAILS

M501

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DUCT HANGER DETAILS



DO NOT EXCEED LOAD RATING FOR METHOD USED.



2 HANGER DETAILS



-DRAIN PAN

-DIELECTRIC

FITTING

DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE NIPPLE ON THE DRAIN PAN. PIPING SHALL

UNIT TYPE

DRAW THRU

1 AHU DRAIN TRAP

BELOW IS MET-

PITCH DOWN

CLEAN OUT-

TOWARD DRAIN-

FROM BUILDING.

BE RIGID COPPER TYPE L O TYPE M UNLESS NOTE

1.CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.

2.DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE

3.TERMINATE AT CODE ALLOWED GREEN SPACE INTO GRAVEL PIT MINIMUM 12"

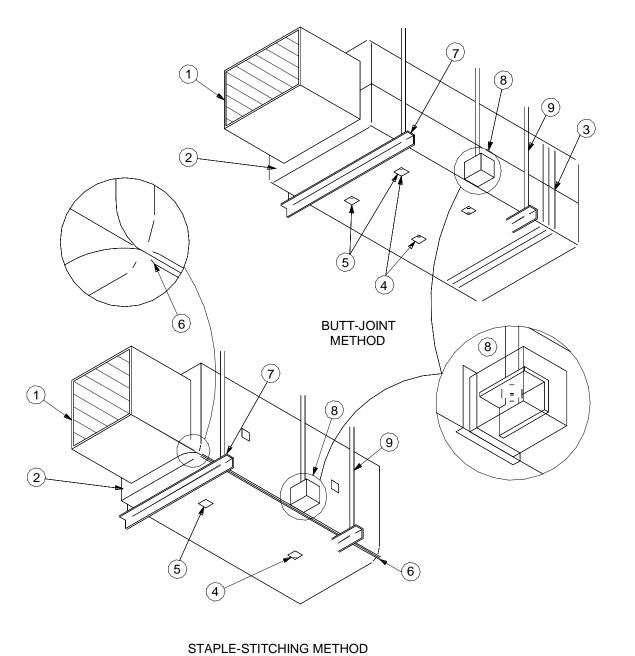
2" PLUS X

WHERE X = STATIC PRESSURE IN PAN

BLOW THRU 1" MINIMUM

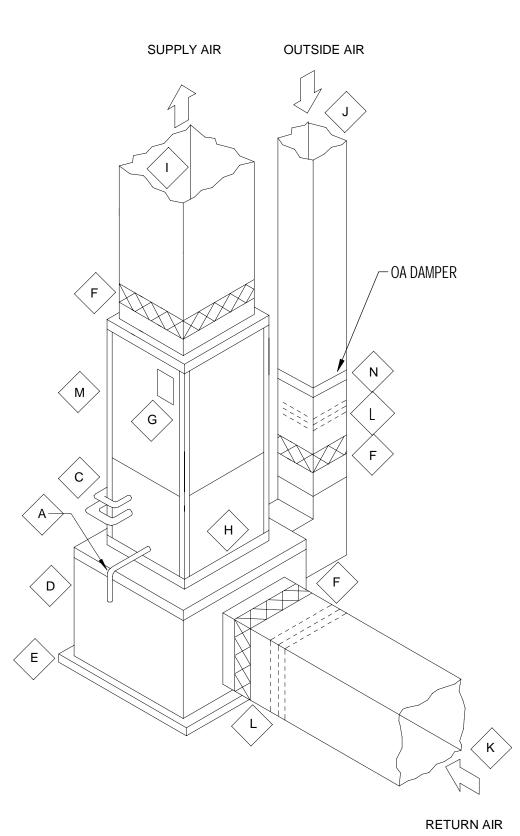
INSTALL REFRIGERANT PIPING IN PVC CONDUIT 3'-0" MINIMUM OR AS IF SPACE AVAILABLE; RECOMMENDED BY VENDOR VERIFY WITH ENGINEER PRIOR TO INSTALLATION EXTERIOR WALL VERIFY TYPE —FINISHED WALL REMOTE HEAT PUMP OR WALL SEAL PENETRATION WITH CONDENSING UNIT LINE SET COMPRESSION SLEEVE TYPE "TITAN GS30" BY AIREX MFG BOLT 2-1/2"x2-1/2" ANGLE TO UNIT. --WALL SURFACE GASKET SEAL (MINIMUM (4) BOLTS PER SIDE) PAINT STAINLESS STEEL CLAMP-WITH RUST-PROOF PAINT. SECURE LONG RADIUS TO SLAB WITH GALVANIZED "RM CLIPS" UV CABLE TIES-AS MANUFACTURED BY R.M. ENTERPRISES PVC ELBOW ALL MATERIAL WALL ANCHOR SCREWS 6" MIN. OR AS—— OTHERWISE NOTED INSULATION PROTECTIVE PVC COVER TYE E-FLEX GUARD BY AIREX MFG INC. ISOLATION PAD PROVIDE TAPCON ANCHORS-ANGLE TO UNIT. (MINIMUM (4) ANCHORS PER SIDE.) - 6" THK. CONC. PAD 12" DEEP X 12" WIDE WITH FIBERGLASS MESH PER STATE HURRICANE GUIDE--FOOTING PEA-GRAVEL BED AROUND LINES FOR LOCAL WIND MHP RATING ENTIRE CONC. PAD

4 CONDENSING/HEAT PUMP UNIT OUTDOOR INSTALLATION DETAIL



- 1 GALVANIZED METAL DUCT WITH SEALED SEAMS AND JOINTS USING PS-S POLY TYPE NO.P-301 PRODUCT.
- 2 BLANKET INSULATION WITH FACTORY-APPLIED VAPOR-RETARDER JACKET, 2" THICK R-6, 3/4 LB. CU. FT. DENSITY.
- 3 FACTORY LAP ALL SEALS (SEALED WITH ADHESIVE AND/OR STAPLES AND VAPOR-RETARDER TAPE). TAPE ALLOWS ALL JOINTS WITH FASON (SMANCA) ALUMINUM REINFORCED PRESSURE SENSITIVE TAPE; COAT EDGES, SEAMS, AND JOINTS WITH INSUL-COUSTIC PRODUCT BY "SURE-COAT M1-110" PRODUCT FIRE RESISTANT MASTIC.
- MECHANICAL FASTENERS SUPPORTING INSULATION ON UNDERSIDE OF DUCTS OVER 24" WIDE (SPACE 3" MAXIMUM FROM THE BUTT JOINT).
- 5 VAPOR-RETARDER TAPE OVER TEARS AND PENETRATIONS OF THE VAPOR-RETARDER JACKET TO KEEP AIR TIGHT CONDITION.
- 6 ALTERNATE METHOD OF LAP SEAL LONGITUDINAL JOINT LAPPED AND FOLDED, THEN STAPLED SECURELY IN PLACE.
- 7 HANGER ON EXTERIOR OF INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR-RETARDER TAPE.
- HANGER EMBEDDED IN INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR RETARDER TAPE.
- 9 COMPLETELY ENCAPSULATE HANGER ROD AND ANGLE. SEAL TOP PENETRATION. ENCAPSULATE AND SEAL STRAP HANGERS IN A SIMILAR MANNER.

3 BLANKET FIBERGLASS INSULATION DETAIL



iggr A. iggr > INSTALL CONDENSATE AS INDICATED IN DETAIL WITH INSULATED DRAIN & CLEANOUT; ROUTE TO EARTH AREA, STORM DRAIN, DRY-WELL, OR FLOOR DRAIN AS SO NOTED IN DRAWINGS.

B. NOT USED

C. > ROUTE REFRIGERANT LINES TO MATCHING HP UNIT; SEE SPEC'S, DRAWINGS & PIPING SCHEMATIC FOR REQUIREMENTS.

 $^{\prime}$ D. $^{\prime}$ AHU TO BE MOUNTED ON STEEL ANGLE STAND WITH SEALED METAL PLENUM BOX; BOX TO BE LINED WITH 1" ARMACELL AP-COILFLEX ELASTOMERIC CLOSED CELL FOAM WITH MICROBAN COATING.

E. MOUNT UNIT & PLENUM BOX ON NEOPRENE/CORK PAD COVERING ENTIRE BASE AS SHOWN; AHUS' SHALL HAVE AUX. DRAIN PANS UDNER SYSTEM WITH WATER DETECTION DEVICE & SECONDARY DRAIN PER CODE.

F. > FLEXIBLE DUCT CONNECTOR.

G. > UL APPROVED BREAKER OR DISCONNECT FOR FAN & HEATER IN COMPLIANCE WITH NEC CODE & LOCAL REQUIREMENTS.

H. > 2" MERV 13 AIR FILTER & RACK; SEE SPEC'S FOR ADDITIONAL INFORMATION & REQUIREMENTS.

SUPPLY AIR DUCT WITH 1" ARMACELL AP-COILFLEX ELASTOMERIC CLOSED FOAM FIRST FIVE FET & EXTERNAL INSULATION

> EXTERNAL INSULATED OUTSIDE AIR DUCT. SEE DRAWINGS FOR ADDITIONAL INFORMATION.

> BUILDING RETURN AIR DUCT; DUCT TO BE INSULATED WITH EXTERIOR INSULATION.

L. OPPOSED BLADE BALANCING DAMPER.

M. AIR HANDLING UNIT; SEE SCHEDULES, SPEC'S & DRAWINGS FOR

ADDITIONAL REQUIREMENTS.

N. MOTORIZED OUTSIDE AIR; ADJUST FOR OCCUPIED AND NON-OCCUPIED / HOURS. REFER TO UNIT SCHEDULE AND FLOOR PLAN FOR VALUES.



5 UP FLOW VERTICAL AIR HANDLING UNIT WITH ATTACHED DUCT SYSTEM DETAIL

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> NO. 77568 STATE OF

Robert E. Gelhardt II, PE#77568

	SUBMITTAL							
PHASE	DATE	DRAWN	CHEC					
DD	07/25/24	LJ	REGII					
50% CD	09/13/24	LJ	REGII					
90% CD	10/04/24	LJ	REGII					
100% CD	10/22/24	LJ	REGII					
PERMIT	O2/21/25	LJ	REGII					

REVISIONS # DATE COMMENTS

24002 PROJ. NO. PHASE: PERMIT PLANS

HVAC DETAILS

M502

AIR HANDLER SCHEDULE EXT. SP (IN WG) VOLTAGE/ PHASE MANUFACTURER NOMINAL TON TOTAL CFM OA CFM MOTOR HP EAT (DB/WB) AUX HEATER MARK LAT (DB/WB) MCA MOCP REMARKS UNIT 0.50 in-wg 80 °F/67 °F 55 °F/54.9 °F LENNOX 8000 W IT AC 75 °F/50 °F 55 °F/54.0 °F 2,5 LCN098HV4 0.75 300 0.10 in-wg 0.2 0 W REMARKS:

1. INSTALL WITH MERV13 FILTER, MANUFACTURER'S THERMOSTAT, MOTORIZED OUTSIDE AIR DAMPER, & DRAIN PAN OVERFLOW SWITCH.

2. PROVIDE SINGLE POINT POWER CONNECTION WITH INTEGRAL DISCONNECT.
3. UNOCCUPIED SETBACK AND OPTIMAL START SEQUENCES.

4. OA MOTORIZED DAMPER SHALL OPEN FULLY DURING OCCUPANCY HOURS AND SET TO MINIMUM VALUE OF 150CFM DURING NON-OCCUPANT HOURS.

5. SET TO COOLING ONLY MODE. INDOOR UNIT POWERED BY OUTDOOR UNIT.

MARK	MODEL NUMBER	MATCHING UNIT	NOMINAL TON	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	SEER2	VOLTAGE/ PHASE	MCA	MOCP	REMARKS
HP-1	0EL18XPV-060	AHU-1	5	60000.0 Btu/h	48000.0 Btu/h	48000.0 Btu/h	17.1	208 V/1	35	60	1-3
IT CU	LUU097HV	IA AC	0.75	9000.0 Btu/h	7000.0 Btu/h	0.0 Btu/h	20.2	208 V/1	12	15	1,2

			<u>AIR</u>	DISTRIBUTIO	ON DEVICE	<u>SCHEDULE</u>		
MARK	SERVICE	MFG	MODEL	CFM RANGE	NECK SIZE	FACE SIZE	DETAILS	IMAGE
RAG8	RETURN	PRICE	APDDR	0-150	8"ø	2' - 0"x2' - 0"	LAYIN OR SURFACE MOUNTED; ALUMINUM MATERIAL; PERFORATED FACE; DUCTED RETURN;	0
RAG10	RETURN	PRICE	APDDR	150-275	10"ø	2' - 0"x2' - 0"	LAYIN OR SURFACE MOUNTED; ALUMINUM MATERIAL; PERFORATED FACE; DUCTED RETURN;	O
SAG6	SUPPLY	PRICE	SCD	0-105	6"ø	1' - 0"x1' - 0"	4 WAY DIRECTIONAL; LAYIN OR SURFACE MOUNTED DIFFUSER; ALUMINUM MATERIAL.	
SAG8	SUPPLY	PRICE	SCD	80-160	8"ø	2' - 0"x2' - 0"	4 WAY DIRECTIONAL; LAYIN OR SURFACE MOUNTED DIFFUSER; ALUMINUM MATERIAL.	

				LOUVER S	SCHEDULE	
MARK	SERVICE	MANUFACTURER	MODEL	FACE SIZE	DETAILS	
EAL18	EXHAUST	RUSKIN	EME3625MD	18"x12"	700 CFM EXHAUST. WIND DRIVEN RAIN RESISTANT. AMCA 550 AND AMCA 540 APPROVED. VERTICAL STATIONARY LOUVER. 3" LOUVER DEPTH. 0.37 FREE AREA SQFT. 1882 FREE AREA VEL FPM. 25% FREE AREA.	
OAL12	INTAKE	RUSKIN	EME3625MD	12"x12"	400 CFM INTAKE. WIND DRIVEN RAIN RESISTANT. AMCA 550 AND AMCA 540 APPROVED. VERTICAL STATIONARY LOUVER. 3" LOUVER DEPTH. 0.22 FREE AREA SQFT. 1793 FREE AREA VELOCITY FPM. 22% FREE AREA.	

				EXHAU	ST FAN SCH	<u>IEDULE</u>					
MARK	MANUFACTURER	MODEL	EXHAUST CFM	AREAS SERVED	DRIVE TYPE	MOTOR (W)	EXT. SP (IN WG)	SONES	UNIT WEIGHT	VOLTS/PHASE	REMARKS
EF1	LOREN COOK	GC-128	50	JANITORS/SHOWERS	DIRECT	27W	0.08 in-wg	1	15	115V/1	1
EF2	LOREN COOK	GC-148	75	RESTROOMS	DIRECT	45W	0.08 in-wg	1	15	115V/1	1
DEMVDK6.											



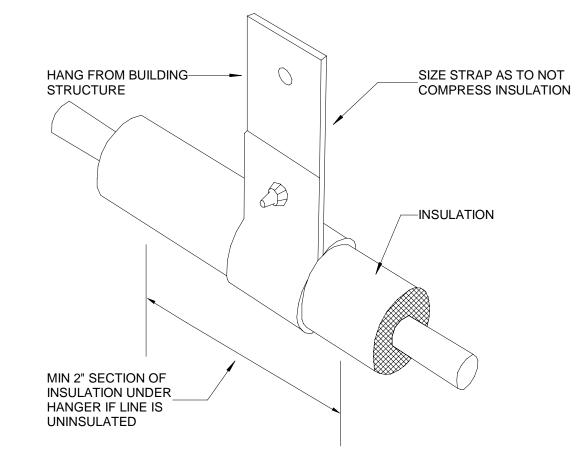
KEMAKKS:					
1. TIE EXHAUST FAN CONTROL	TO LIGHT SWITCH.	PROVIDE FAN SPEED	CONTROLLER AN	ID BACKDRAFT DAMPER.	INTERMITTENT USE.

		SING	LE ZONE VE	NT SCHEDUL	<u>.E</u>			
SPACE NO. NAME	ZONE AREA (FT^2)	ZONE POP. (PEOPLE)	PEOPLE OA RATE (CFM/PPL)	AREA OA RATE (CFM/FT^2)	E_Z	UNOCCO. ZONE OA (CFM)	BREATHING ZONE OA (CFM)	ZONE OA (CFM)
100 LOBBY	273 SF	6	5	0.06 CFM/SF	0.8	20	46	58
101 CASHIERS	165 SF	3	8	0.06 CFM/SF	0.8	12	32	41
102 SITUATION ROOM	538 SF	10	5	0.06 CFM/SF	0.8	40	82	103
103A MENS RR	122 SF	0	0	0.00 CFM/SF	0.8	0	0	0
103B WOMENS RR	123 SF	0	0	0.00 CFM/SF	0.8	0	0	0
103C HALL	107 SF	0	0	0.06 CFM/SF	0.8	8	6	8
103D HALL	200 SF	0	0	0.06 CFM/SF	0.8	15	12	15
104 OFFICE	97 SF	1	5	0.06 CFM/SF	0.8	7	11	14
105 OFFICE	104 SF	1	5	0.06 CFM/SF	0.8	8	11	14
106 OFFICE	110 SF	1	5	0.06 CFM/SF	0.8	8	12	15
107 H/C BATHROOM	114 SF	0	0	0.00 CFM/SF	0.8	0	0	0
108 BREAK ROOM	343 SF	6	5	0.06 CFM/SF	0.8	26	51	63
110 IT	31 SF	0	0	0.06 CFM/SF	0.8	2	2	2
TOTAL	2327 SF	28				148	266	332

MARK	TOTAL CFM	RA CFM	EA CFM	OA CFM	AIR BALANCE
AHU-1	2000	1600	0	400	400
EF1	0	0	50	0	-25
EF1	0	0	50	0	-25
EF1	0	0	50	0	-25
EF2	0	0	75	0	-50
EF2	0	0	75	0	-50
EF2	0	0	75	0	-50
IT AC	300	300	0	0	0
KEF	0	0	235	0	-100
TOTAL: 9	2300	1900	610	400	75
REMARKS:					

L	24x24 INTERIORLY LINED RETURN AIR——PLENUM	PAINT INSIDE OF -DUCTWORK AND PLENUM FLAT BLACK
5	RETURN AIR GRILLE,— SEE SCHEDULES FOR TYPE	CEILING, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION









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50%	6CD	09/13/24	LJ	REGII		
90%	6CD	10/04/24	LJ	REGII		
100	% CD	10/22/24	LJ	REGII		
PER	RMIT	O2/21/25	LJ	REGII		
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PROJ. NO. <u>24002</u>						

HVAC SCHEDULES

PHASE: PERMIT PLANS

M601

