



MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

- 1 PROVIDE AND INSTALL GAS FIRED FURNACE COMPLETE AS SPECIFIED WITH DX COOLING COIL. MOUNT FURNACE ON 14" HIGH RETURN PLENUM WITH EXTERNAL FILTER SECTION. (REFER TO DETAIL DM3.1 FOR PLENUM CONSTRUCTION AND TO DETAIL LM3.1 FOR FILTER RACK CONSTRUCTION.) COORDINATE FURNACE, PLENUM AND DUCTWORK LOCATION WITH PLUMBING FIXTURES AND PIPING. (REFER TO DETAIL QM3.1 FOR TYPICAL FURNACE PIPING CONNECTIONS.)
- 2 MOUNT CONDENSING UNIT AS SPECIFIED ON GROUND WITH 1" THICK NEOPRENE PADS UNDER EACH CORNER. EXTEND REFRIGERANT LINES THRU WALL AND RISE UP TO ROOF IN ROOM. RUN PIPING OVER HEAD AS SHOWN TO MECHANICAL ROOM AND CONNECT TO DX COOLING COIL. REFER TO SHEET M3.2 FOR TYPICAL REFRIGERANT PIPING CONNECTIONS, SUPPORTS AND INSTALLATION.
- 3 PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN AS SPECIFIED. RUN 6" Dia. DUCT UP THRU METAL ROOF TO ROOF CAP. REFER TO DETAIL EM3.1 FOR TYPICAL INSTALLATION. MULTIPLE EXHAUST DUCTS MAY BE COMBINED TO SINGLE ROOF CAP WHERE POSSIBLE. REFER TO DETAIL JM3.1 FOR MULTIPLE DUCTS TO SINGLE ROOF CAP APPLICATIONS.
- 4 PROVIDE AND INSTALL GAS FIRED UNIT HEATERS AS SPECIFIED. MOUNT UNITS AS HIGH AS POSSIBLE. RISE (2) 4" Dia. VENTS UP AND EXTEND THRU METAL ROOF WITH CONCENTRIC TYPE FITTING. (REFER TO DETAIL MM3.1 FOR TYPICAL INSTALLATION. AND VENTS THRU ROOF.) PLUMBING CONTRACTOR TO CONNECT 3/4" GAS LINE WITH PRESSURE REGULATOR, SHUT-OFF VALVE AND FLEXIBLE HOSE TO UNIT. REFER TO DETAIL CP3.1 FOR TYPICAL GAS LINE CONNECTION.
- 5 PROVIDE AND INSTALL RADIANT TUBE HEATER WITH SHIELDS AS SPECIFIED. MOUNT HEATER AS HIGH AS POSSIBLE ABOVE FLOOR AND MAINTAIN REQUIRED MANUFACTURER'S CLEARANCES FROM COMBUSTIBLE MATERIAL. HEATERS TO BE MOUNTED AT 45 DEGREE TILT WITH EXTENDED SIDE SHIELDS NEXT TO WALLS. REFER TO DETAIL DM3.2 FOR TYPICAL INSTALLATION AND REQUIRED CLEARANCES. EXTEND 4" Dia. INTAKE AND EXHAUST VENTS OUT THRU EXTERIOR WALL AND TERMINATE WITH 45 DEGREE CUT AND BUG SCREEN. KEEP VENTS AS HIGH AS POSSIBLE AND GRADE AT 1/4" SLOPE PER FOOT. REFER TO DETAIL HM3.1 FOR TYPICAL INSTALLATION OF VENT PIPING TO RADIANT HEATERS.
- 6 INSTALL OUTSIDE AIR LOUVER AND RETURN GRILLE AS SPECIFIED. MOUNT BOTTOM OF GRILLE AT 18" ABOVE FLOOR. PROVIDE MOTORIZED DAMPER IN DUCT AND INTERLOCK WITH CORRESPONDING ROOF MOUNTED EXHAUST FAN AS SHOWN ON PLAN. REFER TO DETAIL BM3.1 FOR TYPICAL INSTALLATION.
- 7 MOUNT EXHAUST FAN AS SPECIFIED ON ROOF WITH SLOPED ROOF CURB. DROP 14x14 DUCT DOWN THRU ROOF AND CONNECT TO GRILLE AT 6" BELOW ROOF DECK. REFER TO DETAIL KM3.1 FOR TYPICAL INSTALLATION. INTERLOCK EXHAUST FAN WITH CORRESPONDING INTAKE LOUVER NEAR FLOOR.
- 8 PROVIDE AND INSTALL 8'-0" Dia. CIRCULATION FAN AS SPECIFIED. MOUNT AT 20'-0" ABOVE FLOOR. COORDINATE ACTUAL LOCATION WITH ROLL-UP DOORS, LIGHT FIXTURES, AND RADIANT HEATERS.

GENERAL NOTES:

- A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- D- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- E- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.
- F- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

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