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- GENERAL NOTES**
- RUN REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. SUCTION PIPING SHALL BE INSULATED WITH 1/2" THICK PIPE INSULATION ON PIPING SMALLER THAN 1", 1" THICK PIPE INSULATION ON PIPING 1" AND LARGER SUD OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE.
 - FLEXIBLE DUCTWORK NOT TO EXCEED 5'-0". WHEN LONGER RUNS OCCUR, USE MINIMUM #26 GA HARD ROUND DUCTWORK TO MAINTAIN REQUIRED LENGTH.
 - CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE OWNER AND ARCHITECT.
 - CONTRACTOR TO PROVIDE PROTECTIVE HOUSINGS ON ALL HVAC AND REFRIGERATION EQUIPMENT LOCATED OUTSIDE.
 - GENERAL CONTRACTOR TO PROVIDE PIPE STAND TO HOLD REFRIGERANT LINES UP OFF ROOF.
 - EXHAUST DUCTS SHALL MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY OUTSIDE AIR INTAKE.
 - COORDINATE EXACT LOCATION OF ALL ROOF PENETRATIONS WITH THE ARCHITECTURAL DRAWINGS.
 - CONTRACTOR SHALL PERFORM AN AIR BALANCE OF THE HVAC SYSTEMS TO THE AIR QUANTITIES SHOWN ON THE PLAN AND EQUIPMENT SCHEDULE. SUBMIT AIR BALANCE REPORT TO ENGINEER AND OWNER FOR APPROVAL.
 - CONTRACTOR SHALL INSTALL 1/2" HARDWARE CLOTH ACROSS ALL RETURN AIR AND SUPPLY AIR DUCTWORK TO PREVENT DEBRIS GETTING INTO THE AIR DISTRIBUTION SYSTEM DURING CONSTRUCTION.
 - INSTALL 1" ACOUSTICAL DUCT LINER IN FIRST 10' OF SUPPLY AND RETURN AIR DUCT FROM ROOFTOP UNIT.
 - BRACH SUPPLY DUCT CONNECTION TO MAIN SUPPLY DUCT SHALL BE A MIN. 5'-0" FROM RTU SUPPLY DROP.

- SHEET KEYNOTES**
- REMOTE TEMPERATURE/HUMIDITY SENSOR MOUNTED IN RETURN DUCT. CONNECT TO PROGRAMMABLE THERMOSTAT/HUMIDISTAT LOCATED IN BACK OF HOUSE AREA.
 - THERMOSTAT FOR RTU-1, RTU-2 & RTU-4 TO BE SET AT 68°F FOR HEATING AND 72°F FOR COOLING AND 50% FOR HUMIDITY. THERMOSTAT FOR RTU-3 TO BE SET AT 67°F FOR HEATING AND 73°F FOR COOLING AND 50% FOR HUMIDITY (THERMOSTATS SHALL BE INSTALLED VERTICALLY ON WALL BEHIND BOOK SWITCHES ABOVE THERMOSTATS).
 - SPIN-IN FITTING AND EXTRACTOR SCOOP, TYPICAL.
 - ROUTE DUCTWORK BELOW JOIST.
 - ROUTE DUCTWORK BETWEEN JOIST.
 - ROUTE BRANCH DUCTS THROUGH ROOF JOIST.
 - UNDERCUT DOOR 3/4" FOR AIR TRANSFER.
 - PACKAGED HVAC UNIT TO BE INSTALLED ON ROOF CURB POSITIONED OVER BUILDING STEEL. COORDINATE. INSTALL WITH ARCHITECT DWG. SEE DETAIL 2 AND 6 ON SHEET M400, AND DETAIL 6 ON SHEET S402.
 - INSTALL REFRIGERANT PIPING FROM REMOTE CONDENSER ON ROOF TO INDOOR EQUIPMENT/EVAPORATOR AND CONNECT FOR OPERATION. PROVIDE 1/2" THICK PIPING INSULATION ON SUCTION PIPING. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT VENDOR.
 - ROUTE REFRIGERANT LINES UNDER SLAB IN 6" PVC. REFER TO PLUMBING SHEETS FOR PVC LOCATION.
 - REFRIGERANT PIPING UP FROM BELOW FLOOR IN PIT AND INTO CEILING SPACE TO EQUIPMENT ON ROOF. SEE PIT DETAIL 10 ON SHEET S430.
 - EXHAUST DUCT UP THROUGH ROOF TO EXHAUST FAN. SEE DETAIL 1 ON SHEET M400.
 - BALANCE DAMPER SHALL BE YOUNG REGULATOR MODEL 802OR LOCKING HAND QUADRANT WITH 2" STANDOFF. HAND QUADRANT SHALL BE MOUNTED ON BOTTOM OF DUCT. PROVIDE MAGNETIC INDICATOR ON CEILING GRID FOR LOCATION OF HAND QUADRANT. TYPICAL. SEE DETAIL 5 ON SHEET M400.
 - VENDOR TO PROVIDE CHILLED WATER PIPING FROM YOGURT MACHINES #4025 TO REMOTE CHILLER #4096 ON ROOF. PIPING TO GO THROUGH ATR HUB. SEE DETAIL 3 ON SHEET A201.
 - REFRIGERANT PIPING UP THROUGH ROOF IN ATR HUB. SEE DETAIL 3 ON SHEET A201.
 - SMOKE DETECTOR PROVIDED BY ROOFTOP UNIT MANUFACTURER TO SHUTDOWN UNIT UPON SENSING SMOKE AND SEND OUT A REMOTE ALARM SIGNAL.
 - TRANSITION DUCT ABOVE CEILING SPACE. DUCT SHALL BE ROUTED THROUGH ROOF JOIST.
 - EF-4 THERMOSTAT SHALL CLOSE ON TEMPERATURE RISE. THERMOSTAT SHALL BE SET AT 75°F. THERMOSTAT SHALL BE HONEYWELL MODEL T651A3018. COORDINATE WITH ELECTRICAL.

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