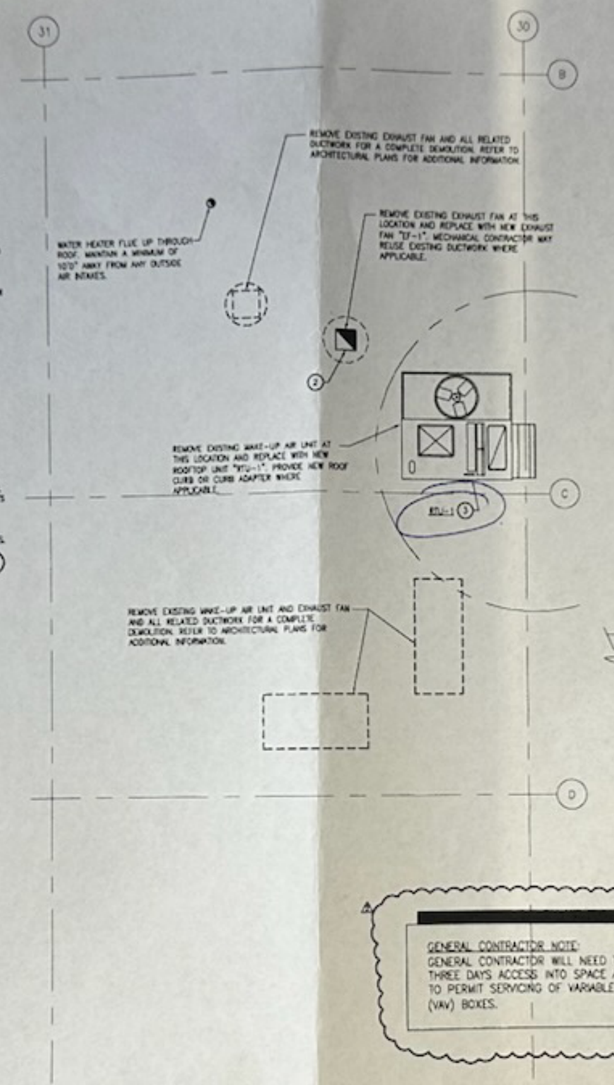
MECHANICAL GENERAL NOTES:

1. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES, LANDLORD REQUIREMENTS, CEILING HEIGHTS AND EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY DUCTWORK OR ORDERING OF ANY EQUIPMENT.
2. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
3. FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE STATE BUILDING CODE, CITY BUILDING CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
4. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
5. MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
6. MECHANICAL CONTRACTOR TO PROVIDE TENANT WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
7. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BID AND INCLUDE IN BID ALL COSTS TO MAKE FIELD COORDINATION AND ADJUSTMENT TO DUCTWORK FOR FIT INTO EXISTING STRUCTURE. CONTRACTOR SHALL VERIFY AND FIELD COORDINATE FINAL LOCATION OF MECHANICAL EQUIPMENT.
8. ALL DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR ARE TO BE MADE OF CONTINUOUS SHEET METAL.
9. IF REQUIRED, EXTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK WITH 1-1/2" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS. ADD TO SHEET METAL SIZE FOR INSULATION. IN GENERAL, DUCTWORK SHALL BE UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH GENERAL CONTRACTOR. ROUND RIGID SUPPLY, RETURN, ALL RELIEF AIR AND ALL OUTSIDE AIR DUCTS SHALL BE EXTERNALLY INSULATED WITH 1-1/2" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. ROUND DUCTWORK IN CONDITIONED SPACE SHALL BE SPIRAL DUCTWORK WITH PAINT GRIP FINISH AND DOES NOT REQUIRE INSULATION UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR PAINTED DUCT FINISHES.
10. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
11. ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS.
12. FLEXIBLE INSULATED DUCTS SHALL BE MAXIMUM 5'-0 LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
13. THE LANDLORD'S CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM TO INCLUDE PANELS, MODULES, RELAYS, WIRING, THERMOSTATS, SENSORS, DAMPERS, ACTUATORS AND ALL MISCELLANEOUS ITEMS AS REQUIRED TO FULFILL THE DESIGN INTENT AS INDICATED ON THE PLANS AND IN THE CODED NOTES.
14. ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
15. ALL LOW VOLTAGE WIRING AND CONDUIT REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ELECTRICAL CONTRACTOR ALL WIRING AND CONDUIT REQUIRED FOR EQUIPMENT OPERATION AND CONTROL.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MECHANICAL EQUIPMENT COMPONENTS ARE INSTALLED AT LOCATIONS AND ELEVATIONS WHICH MAKE THEM READILY ACCESSIBLE FOR ROUTINE MAINTENANCE WITHOUT REQUIRING ANY EXTRAORDINARY MEASURES.

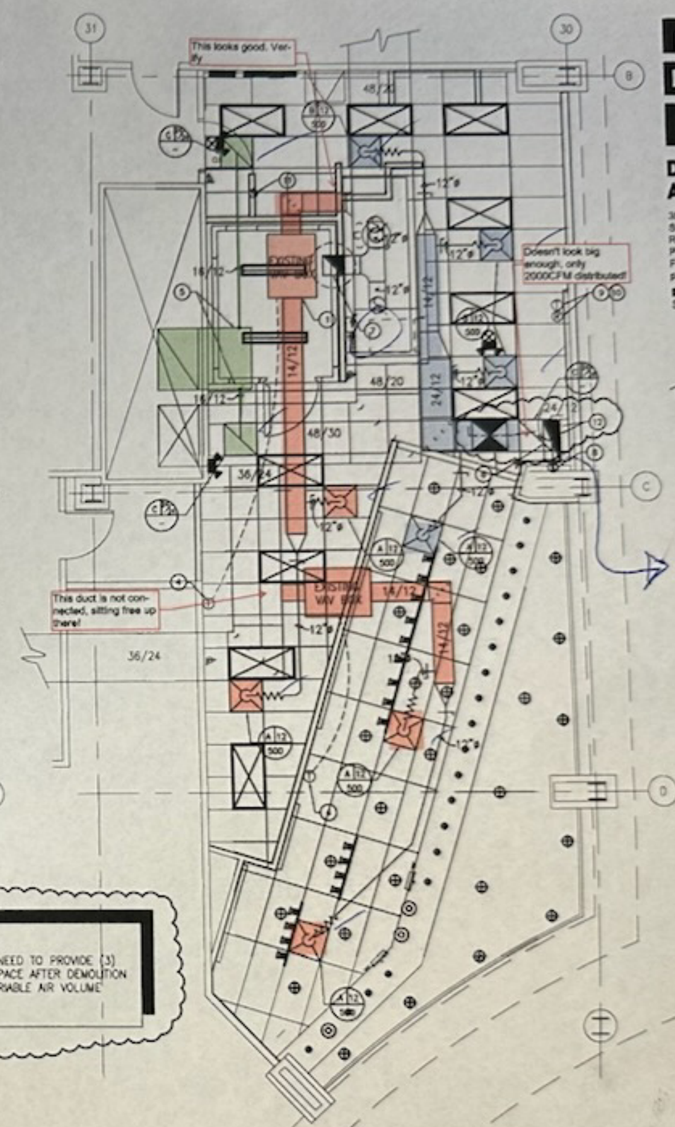
MECHANICAL PLAN NOTES:

1. CONNECT NEW DUCTWORK TO EXISTING VAV BOX THAT WAS PREVIOUSLY SERVING THIS SPACE. VERIFY EXACT LOCATION.
2. EF-1:
   MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL WHERE SHOWN ON PLANS AN EXHAUST FAN. UNIT SHALL INCLUDE SUPPORT, SPRING RUBBER VIBRATION ISOLATORS AND AUTOMATIC BACKDRAFT DAMPER. MOUNTING SUPPORTS SHALL BE BY THE MECHANICAL CONTRACTOR WITH ALL ROOF CUTTING, FLASHING, ETC. TO BE DONE BY THE AIRPORT AUTHORITY APPROVED ROOFING CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE UNLESS NOTED OTHERWISE. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL NEW 12"Ø GALVANIZED TYPE B EXHAUST DUCT FROM HOOD COLLAR TO EXHAUST FAN AND UP TO ROOF. REFER TO EXHAUST FAN SCHEDULE FOR MORE INFORMATION. EXHAUST FAN TO DISCHARGE A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES. EXHAUST FANS SHALL BE INTERLOCKED WITH ROOFTOP UNIT. EXHAUST FANS SHALL NOT RUN IF HVAC UNITS ARE NOT IN OPERATION TO PROVIDE REQUIRED MAKE-UP AIR.
3. NEW HVAC UNIT "RTU-1" MOUNTED ON ROOF AT THIS LOCATION. COORDINATE EXACT LOCATION OF UNIT ON ROOF WITH STRUCTURAL DRAWINGS AND AIRPORT AUTHORITY AND PROVIDE NECESSARY SHEET METAL OFFSETS. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET TRANSITION AT SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE. SET UNIT OUTSIDE AIR QUANTITY AS LISTED ON ROOFTOP UNIT SCHEDULE ON DRAWING M0.0. FANS TO RUN CONTINUOUS DURING OCCUPIED HOURS.
4. EXISTING BUILDING THERMOSTAT PREVIOUSLY SERVING THIS AREA TO BE RELOCATED TO NEW WALL. EXTEND WIRING AS REQUIRED FOR BUILDING THERMOSTAT TO REMAIN IN SERVICE. COORDINATE FINAL LOCATION WITH ARCHITECT AND EQUIPMENT/MILLWORK.
5. PROVIDE NEW 24/24 RETURN AIR GRILLE. CONNECT TO EXISTING RETURN AIR SYSTEM PREVIOUSLY SERVING THIS AREA.
6. 20/14 SUPPLY & 22/14 RETURN AIR DUCTS UP TO ROOFTOP UNIT "RTU-1".
7. 14/14 EXHAUST DUCT UP TO "EF-1" ON ROOF.
8. A NEW SMOKE DETECTOR SHALL BE FURNISHED/INSTALLED BY MECHANICAL CONTRACTOR AND WIRED TO SHUT DOWN CORRESPONDING AIR CONDITIONING UNIT UNDER ALARM CONDITIONS. ALL WIRING SHALL BE IN CONDUITS PER N.E.C.
9. NOT USED.
10. MECHANICAL CONTRACTOR TO MOUNT SMOKE DETECTOR REMOTE KEY STATUS AND TEST STATION NEXT TO UNIT THERMOSTAT. M.C. TO INDICATE DETECTOR SERVING ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN. ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR IN CONDUIT PER N.E.C.; COORDINATE EXACT REQUIREMENTS WITH AIRPORT AUTHORITY AND PROVIDE ALL NECESSARY WIRING AND CONTROLS TO CONNECT TO EXISTING BAS.
11. EXTEND WATER HEATER FLUE UP THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
12. PROVIDE FIRE DAMPERS AT SUPPLY AND RETURN DUCTS PENETRATING FIRE RATED ROOF. FIRE DAMPERS SHALL BE RUSKIN FD60 OR EQUAL.



MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

GENERAL CONTRACTOR NOTE:
GENERAL CONTRACTOR WILL NEED TO PROVIDE (3) THREE DAYS ACCESS INTO SPACE AFTER DEMOLITION TO PERMIT SERVICING OF VARIABLE AIR VOLUME (VAV) BOXES.



MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

FIELD VERIFY ALL CONDITIONS

- DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
- BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

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SEAL

BRUEGGER'S BAKED FRESH

CINCINNATI/NORTHERN KENTUCKY INTERNATIONAL AIRPORT
2939 TERMINAL DRIVE
CONCOURSE B, SPACES B-026 & B-027
HEBRON, KY 41048

DATE	ISSUE / REVISION
6-15-2012	AIRPORT REVIEW
6-22-2012	BID/PERMIT ISSUE
7-24-2012	REVISION 2
7-26-2012	REVISION PLAN
8-10-2012	CONST. ISSUE

MECHANICAL PLAN

DRAWING NUMBER
M2.0

RTU 1
VAV'S
EXHAUST FANS
ASSOCIATED AIR DEVICES
TOTAL = ~~$12.95~~ (*)
#1295

* REQUIREMENTS ~~$1295~~
(1) REQUIRE ESCORT TO GET TO ROOF
(2) FIGURES 1ST SHIFT WORK
(3) ACCESS TO FRONT-END CONTROL TO CALIBRATE THE VAV' SYSTEMS

(2) VAV = 220
GRD = 12 = 30 = 360
EF1 = 125 580
RTU 1 = 300 425
1005