

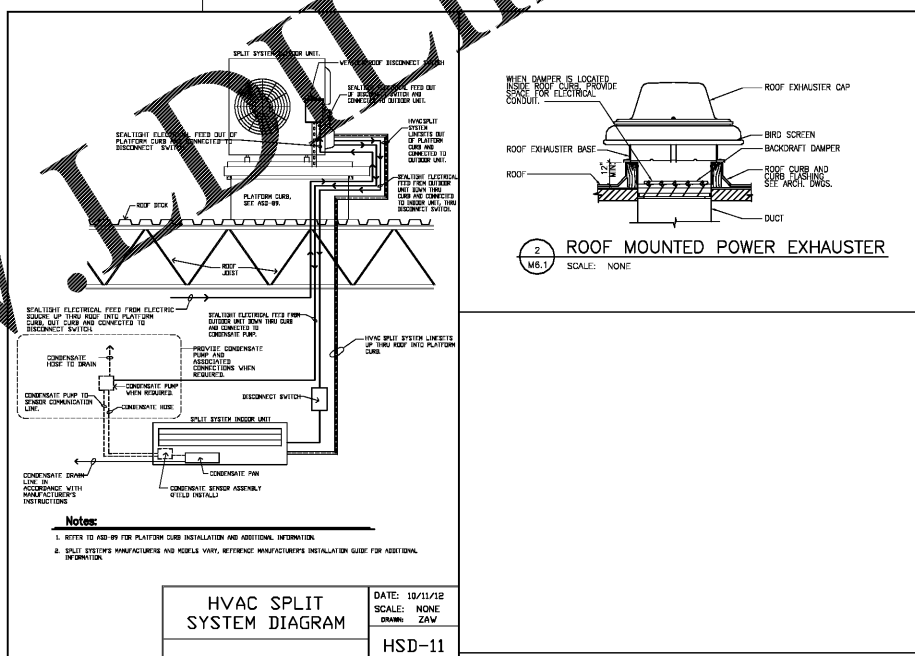
Order Plans @

MECHANICAL NOTES

- 1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. GENERAL CONTRACTOR WILL REMBURSE KROGER FOR ANY DAMAGE TO EQUIPMENT THAT OCCURS DURING TRANSPORTATION.
3. GENERAL CONTRACTOR IS TO PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER BIDS AND LOCAL CODES.
4. DUCT SIZES ARE SHOWN AS CLEAR INSIDE FREE AREA DIMENSIONS. PROVIDE FLEXIBLE CONNECTIONS WHERE DUCTS CONNECT TO UNIT (ON RISER). RUN ALL DUCTWORK AS HIGH AS POSSIBLE TO AVOID INTERFERENCE OF INTERFERING DUCT. ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS. COORDINATE ELEVATION AND LOCATION WITH RAIN LEADERS, WATER PIPING, PLUMBING VENTS AND MAJOR ELECTRICAL CONDUITS OR CABLE TRAY.
5. PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLS, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
6. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS (LATEST ISSUE). DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
7. ALL CONTROL WIRING SHALL BE RUN INSIDE WALLS OR ABOVE CEILINGS IN UNFINISHED AREAS. ROUTE CONTROL WIRING INSIDE CONDUIT IN JOIST SPACE. CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING SENSORS, THERMOSTATS, AUDIO-VISUAL ANNUNCIATORS, ROOF-TOP UNITS, SMOKE DETECTORS, CONTROLLER PANELS AND CONTROL PANELS.
8. PROVIDE DEEP SEAL TRAP AT CONDENSATE DRAIN FROM DX COIL AT ALL UNITS. INSTALL ALL CONDENSATE DRAIN PIPING WITHIN THE BUILDING WITH MINIMUM R-3 AP ARMYLEX TYPE INSULATION. ROUTE TO SPILLSHEDLOCK MINIMUM 5FT AWAY FROM UNIT ON ROOF. ALL CONDENSATE PIPING SHALL BE INSTALLED WATER-TIGHT, SECURED AND CLAMPED ON SUPPORT FOR THE ENTIRE LENGTH OF RUN ABOVE AND BELOW ROOF. CONDENSATE LINE SIZE SHALL BE FULL SIZE OF UNIT CONNECTION AND NOT LESS THAN 2" INTERNAL DIAMETER. CONDENSATE PIPING SHALL NOT DECREASE IN SIZE FROM THE UNIT CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL. THE PIPING SHALL HAVE AN ADEQUATE AIR SEAL TRAP AT EACH UNIT CONNECTION WITH A VENT DOWNSTREAM OF THE TRAP. ROUTE CONDENSATE TO ROOF IF NO LOCATION IS SPECIFIED. CONTRACTOR TO RUN ALL CONDENSATE PIPING IN WALL AND CONCEALED FROM VIEW AS MUCH AS POSSIBLE.
10. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHOW THE RELATIONSHIP BETWEEN EQUIPMENT AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT SIZE OR LOCATION. BUILDING DIMENSIONS SHALL BE TAKEN FROM MECL, PLANS AND EQUIPMENT DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DATA.
11. CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
12. ALL FLEX DUCT SHALL BE FIBERGLASS-FIBERGLASS LULU LISTED, CLASSIFIED AS A CLASS 1 AIR DUCT, AND MEET LOCAL CODE REQUIREMENTS. FLEXIBLE DUCT TAKE-OFF TO BE THERMAX TYPE MAKE OR EQUIVALENT.
13. ALL FANS 1/8 HP AND ABOVE SHALL HAVE FUSED DISCONNECT SWITCHES MOUNTED AT THE FAN. IF APPROVED BY LOCAL AUTHORITIES, NON-FUSED DISCONNECT SWITCHES MAY BE USED DISCONNECTS PROVIDED BY ELECTRICAL CONTRACTOR.
14. MAXIMUM LENGTH OF FLEXIBLE DUCT IS NOT TO EXCEED 8'-0". BRANCH DUCT RUN OUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE SPECIFIED.
15. CONTRACTOR TO COORDINATE ALL CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND MATERIAL. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
16. MOUNT ALL THERMOSTATS/SENSORS IN NON-SHADE AREAS AT 60" A.F.T. UNLESS OTHERWISE NOTED. ANY THERMOSTATS/SENSORS LOCATED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATING BASE. ALL CONTROL WIRING SHALL RUN INSIDE OF ABOVE CEILINGS.
17. PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY RETURN AIRWAYS AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS SHOWN FOR AIRWAY SIZING. INSTALL AT A MINIMUM OF TWO DUCT JOINTS FOR EACH BRANCH. PROVIDE IDENTIFICATION LABELS FOR EACH DAMPER. DAMPERS SHALL BE IDENTIFIED AS FOLLOWS: VOLUME DAMPER: PROVIDE IDENTIFICATION LABELS FOR EACH DAMPER. BALANCING DAMPERS: IDENTIFICATION LABELS SHALL BE PLACED TO THE WALLS, CEILING AND SHALL BE IDENTIFIED AS FOLLOWS: PROVIDE TURNING VANES IN 90 & 180 DEGREE TURNED ELBOWS OBTAINING ALL REQUIRED CLEARANCES AND PATHS FOR DISCONNECT FEETS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISCONNECT FEETS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS. SPECIFICALLY LOCAL STATE AND LOCAL CODES.
20. THE CONTRACTOR SHALL FURNISH EQUIPMENT AND TOOLS TO PERFORM MECHANICAL WORK AS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE INSULATION.
21. CONTRACTOR SHALL NOT ROUTE DUCTWORK THROUGH ELECTRICAL EQUIPMENT AND PANELS.
22. CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES (ELECTRICAL CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, SPRINKLER CONTRACTOR, ELECTRICAL CONTRACTOR, ETC.) AFFECTED BY THAT PIECE OF EQUIPMENT. CLEARANCES, WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC.) PRIOR TO ORDERING EQUIPMENT AND AGAIN PRIOR TO INSTALLATION (ROOF TOP EQUIPMENT OR LIGHTING ABOVE ROOF). NO EXTRA COMPENSATION WILL BE APPROVED IF SUCH WORK IS NOT PERFORMED BY EACH RESPECTIVE CONTRACTOR AND SUBCONTRACTOR.
23. CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THE CONTRACTOR'S RESPONSIBILITY FOR VERIFYING EXISTING BUILDING AND THEORETICAL SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING, AIR TERMINAL DEVICES, ETC. BEFORE STARTING WORK.
24. ALL OBVIOUS ERRORS AND/OR OMISSIONS IN THE ABOVE MENTIONED DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT / ENGINEER PRIOR TO CONSTRUCTION.
25. ANY MECHANICAL ITEMS IN QUESTION REGARDING REMOVAL/REUSE SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER. CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION TO THE ARCHITECT/ENGINEER IN WRITING PRIOR TO REMOVAL OF ANY MECHANICAL ITEMS.
26. SET MECHANICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
27. ALL COSTS INCURRED BY ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY CONTRACTOR. ANY ADDITIONAL COSTS/SERVICES RESULTING FROM PROPOSED SUBSTITUTE EQUIPMENT SHALL BE PROVIDED AT NO EXTRA COST TO THE OWNER.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

- NOTES TO GENERAL CONTRACTOR REGARDING KROGER SUPPLIED CONTRACTOR INSTALLED EQUIPMENT:
1. CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM KROGER PROJECT ENGINEER. COORDINATE WITH VENDOR.
2. CONTRACTOR TO RECEIVE EQUIPMENT, PERFORM INSPECTION, AND RETURN TO VENDOR WITHIN 48 HOURS AFTER DELIVERY (20 DAY RETURN ON DAMAGE).
3. CONTRACTOR TO PROVIDE SAFE HARBORING, INSULATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
4. CONTRACTOR TO HONOR ANY WARRANTY CLAIMS PRIOR TO STARTING WORK WITH VENDOR.



FAN SCHEDULE table with columns: MARK, CFM, E.S.P. WG, DRIVE, H.P., TYPE, BASIS OF DESIGN (CAPTIVE/AIR), EPRO#, LOCATION/SERVICE, AFS CURB MODEL#, NOTES. Includes fans EF-4 through EF-6.

- 1. FANS ARE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CURBS, SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF FANS.
2. FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING FAN CURB DIMENSIONS. PROVIDE CURB ADAPTER IF NEW AND EXISTING FAN CURB DIMENSIONS ARE DIFFERENT.
4. FAN TO BE CONTROLLED BY WALL SWITCH.

AIR CONDITIONING UNIT SCHEDULE table with columns: INDOOR UNIT (MARK, CFM, FAN MOTOR, BASIS OF DESIGN (MITSUBISHI)), OUTDOOR UNIT (MARK, MBH COOLING @95°F AMBIENT, MBH HEATING @47°F AMBIENT, BASIS OF DESIGN (MITSUBISHI), EPRO#, NOTES). Includes unit ECU-1.

- 1. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF SPLIT SYSTEM UNITS.
2. PROVIDE LONG LINE APPLICATION WHEN THE TOTAL TUBING LENGTH EXCEEDS 40 FT OR WHEN THERE IS MORE THAN 16 FT VERTICAL SEPARATION BETWEEN INDOOR AND OUTDOOR UNITS. REFRIGERANT LINES TO BE INSULATED FOR THE ENTIRE LENGTH OF RUN BETWEEN INDOOR AND OUTDOOR UNITS.
3. PROVIDE CONDENSATE PUMP MODEL LITTLE GIANT MODEL VCMA-20 OR EQUIVALENT TO ROUTE CONDENSATE FROM INDOOR UNIT TO ROOF.
4. PROVIDE WITH LOW AMBIENT KIT AND WIND BAFFLES TO AVOID REVERSE ROTATION OF CONDENSER FAN.
5. ROOF MOUNTED OUTDOOR CONDENSING UNITS TO BE INSTALLED ON 45"x20"x14" TALL CURB, AFS CURB MODEL# 42486.
6. UNIT PROVIDED AS PART OF ADD ALTERNATE #2. COORDINATE WITH KROGER PROJECT MANAGER.

HVAC LEGEND & ABBREVIATIONS table listing symbols for components like Supply Diffuser, Return Grille, Air Distribution TAD, Temperature Sensor, Humidity Sensor, Manual Volume Damper, Splitter Damper, Fire Damper, Double Thick Turning Vane, Door Louver, Rooftop Unit, Fan Coil Unit, Electric Fan, Gas Unit Heater, Heater, and Condensing Unit.



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REVISIONS table with columns for revision number, description, and date.

HVAC SCHEDULES, NOTES AND DETAILS