



H.8 ENLARGED HVAC PLAN
SCALE: 3/8" = 1'-0" (IF PRINTED IN 24" x 36" FORMAT)

NOTE:
COORDINATE ROUTING OF DUCTWORK WITH STRUCTURAL BEAMS, JOIST, PIPING, CONDUIT, ETC. IN FIELD. PROVIDE OFFSETS AS REQUIRED FOR CEILING ELEVATION CHANGES, ETC. AS REQUIRED.

NOTE:
PROVIDE FIRE CAULKING, SLEEVES, ETC. AT ALL PENETRATIONS THROUGH WALL ASSEMBLIES AS REQUIRED TO COMPLY WITH UL LISTING OF ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR UL ASSEMBLY DESIGNATIONS FOR ALL WALLS. VERIFY ALL WALL TYPES WITH ARCHITECTURAL PLANS.

HVAC KEYNOTES:

- PROVIDE AND INSTALL NEW VERTICAL AIR CONDITIONING UNIT ON FLOOR IN THIS VICINITY. PROVIDE 24" HIGH (MINIMUM) PAINTED ANGLE IRON FRAME AND RUBBER ISOLATION PADS BELOW AIR CONDITIONING UNIT IN DRAIN PAN WITH FLOAT SWITCH. SEE MECHANICAL SPECIFICATIONS. CONNECT RETURN AIR DUCT TO INDOOR AIR CONDITIONING UNIT FULL SIZE. RUN INSULATED CONDENSATE DRAIN LINE FULL SIZE FROM AIR CONDITIONING UNIT TO FLOOR DRAIN AND TERMINATE. PROVIDE 2" AIR GAP BETWEEN DRAIN LINE AND FLOOR DRAIN. REFER TO PLUMBING PLAN FOR LOCATION OF FLOOR DRAIN.
- PROVIDE AND INSTALL A MANUAL BALANCING DAMPER AND 120-160 ELECTRICAL SERVICE MOTORIZED DAMPER IN OUTSIDE AIR DUCT IN THIS VICINITY. INTERLOCK MOTORIZED DAMPER WITH RESPECTIVE INDOOR AIR CONDITIONING UNIT HEAT STRIP AND OUTDOOR CONDENSING UNIT COMPRESSOR TO OPEN WHEN UNIT HEAT STRIP OR COMPRESSOR ARE ON AND CLOSE WHEN UNIT HEAT STRIP OR COMPRESSOR ARE OFF. PROVIDE ALL RELAYS, WIRING, ETC. REQUIRED FOR PROPER INSTALLATION AND OPERATION. CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT AS SHOWN. INSULATE MOTORIZED DAMPER SAME AS DUCT FOR NOISE.
- PROVIDE AND INSTALL OUTDOOR CONDENSING UNIT ON RUBBER ISOLATION PADS ON CONCRETE PAD IN THIS VICINITY. CONCRETE PAD BY GENERAL CONTRACTOR. RUN INSULATED REFRIGERANT LINES TO EXTERIOR WALL ON UNI-STRUT SUPPORTS. THIMBLE REFRIGERANT PIPING INTO EXTERIOR WALL. TURN AND RISE UP IN EXTERIOR WALL TO ABOVE CEILING ELEVATION. CONTINUE ABOVE CEILING ELEVATION AND CONNECT TO RESPECTIVE INDOOR AIR CONDITIONING UNIT IN MECHANICAL ROOM. PROVIDE ALL REFRIGERANT ACCESSORIES AND ITEMS REQUIRED FOR PROPER INSTALLATION AND OPERATION. WRAP ALL EXTERIOR / EXPOSED PIPING WITH WHITE VENTURE CLAD. OVERLAP ALL SEAMS AND INSTALL AS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WALL PENETRATION BOX (AIRTEX TITAN 6830 OR APPROVED EQUIVALENT AT EACH REFRIGERANT LINE WALL PENETRATION - SEE DETAIL). SEAL ALL WALL PENETRATIONS AIR AND WEATHER TIGHT.
- PROVIDE AND INSTALL A MANUAL VOLUME BALANCING DAMPER IN DUCTWORK IN THIS VICINITY.
- PROVIDE AND INSTALL A HEAVY GAUGE EXTRUDED ALUMINUM DIVER WITH BIRDSCREEN AT SIZE INDICATED. DUCT GAP, EXTENDED SILL, AND ANODIZED FINISH (COLOR BY ARCHITECT). LOUVER SHALL BE GREENHECK EVH-SOLID HIGH VELOCITY, WIND DRIVEN, RAIN DRAINABLE STATIONARY LOUVER OR APPROVED EQUAL WITH BACKDRAFT DAMPER. CONNECT DUCTWORK FULL SIZE TO LOUVER. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOUVER LOCATIONS AND ELEVATIONS PRIOR TO INSTALLATION.
- PROVIDE AND INSTALL T-DAY PROGRAMMABLE THERMOSTAT ON WALL IN THIS VICINITY. COORDINATE EXACT THERMOSTAT LOCATION AND ELEVATION IN FIELD WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE ALL WIRING, CONDUIT, ETC. REQUIRED FOR PROPER OPERATION.
- PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN IN THIS VICINITY. PROVIDE ALL WIRING, CONTROLS, DUCTWORK, ETC. REQUIRED FOR PROPER INSTALLATION AND OPERATION. PROVIDE AND INSTALL MOTION SENSOR (CEILING TYPE WITH 15 MINUTE TIMER) FOR ON/OFF CONTROL OF EXHAUST FAN. SENSOR SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION OF FAN AND MOTION SENSOR WITH ARCHITECTURAL CEILING PLAN, LIGHTS, AND ALL OTHER CEILING DEVICES. COLOR OF MOTION SENSOR TO MATCH COLOR OF LIGHT SWITCH COVERS.
- UNDERCUT DOOR 3/4" FOR TRANSFER AIR.
- PROVIDE INSULATED RETURN AIR PLENUM FULL SIZE OF GRILLE WITH ROUND DUCT CONNECTION FOR CONNECTION OF RETURN AIR DUCT.
- PROVIDE AND INSTALL A MANUAL DAMPER AT DUCT TAP SPIN FITTING AND BALANCE TO CFM INDICATED AT DIFFUSER. DUCT TAPS SHALL BE A MINIMUM OF 12" FROM END OF SUPPLY AIR DUCT (TYPICAL).
- PROVIDE AND INSTALL HORIZONTAL AIR CONDITIONING UNIT FROM STRUCTURE IN THIS VICINITY. PROVIDE 8" PAINTED ANGLE IRON FRAME AND RUBBER ISOLATION PADS BELOW AIR CONDITIONING UNIT IN DRAIN PAN WITH FLOAT SWITCH. PROVIDE SUPPLY AND RETURN AIR DUCT AS SHOWN. COORDINATE LOCATION OF UNIT WITH ALL TRADES, PROVIDING APPROPRIATE CLEARANCE TO ACCESS EQUIPMENT. RUN INSULATED CONDENSATE DRAIN LINE FULL SIZE FROM AIR CONDITIONING UNIT AND TERMINATE IN HUB DRAIN. PROVIDE 2" AIR GAP BETWEEN DRAIN LINE AND HUB DRAIN. REFER TO PLUMBING PLAN FOR HUB DRAIN LOCATION. FILTER RACK SHALL BE PROVIDED BY MANUFACTURER FULL SIZE OF RETURN AIR OPENING.
- CONNECT TO EXISTING S/A DUCTWORK IN THIS VICINITY.
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- OFFSET O/A DUCTWORK UP IN THIS VICINITY TO MAXIMUM HEIGHT POSSIBLE. REFER TO SHEET M.110 FOR CONTINUATION.
- ADJUST EXISTING SUPPLY REGISTERS AS REQUIRED TO ENSURE PROPER AIR FLOW ABOVE NEW LOW WALL.
- REMOVE EXISTING REFRIGERANT PIPE INSULATION ABOVE ROOMS 105 AND 106, AND RE-INSULATE PIPE WITH SPECIFIED INSULATION.

HVAC GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL CODES TO THE SATISFACTION OF CODE AUTHORITIES HAVING JURISDICTION.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 90A & 101, THE CLEAN AIR ACT AND THE AMERICANS WITH DISABILITIES ACT.
- COORDINATE ALL CEILING DEVICES, DUCTWORK, ETC. WITH LIGHTING, STRUCTURE, ETC. THROUGH GENERAL CONTRACTOR. REFER TO ALL DRAWINGS (STRUCTURAL, PLUMBING, ELECTRICAL, ARCHITECTURAL, ETC.). NOTIFY ARCHITECT/ENGINEER CONCERNING ANY CONFLICTS NOTED PRIOR TO BIDS FOR CLARIFICATION TO THE SATISFACTION OF THE BIDDER. REFER TO SPECIFICATIONS SECTION 15000 FOR REQUIREMENTS. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE ALL CEILING DEVICE LOCATIONS WITH CEILING GRID.
- ALL SUPPLY, EXHAUST, RETURN AND FRESH AIR DUCTWORK SHALL BE EXTERNALLY INSULATED. DUCT SIZES SHOWN ARE CLEAR METAL TO METAL. WRAP DUCTWORK EXTERNALLY.
- HARDCAST ALL DUCTWORK JOINTS FOR AIRTIGHT SYSTEM. REFER TO DETAILS FOR DUCTWORK TAP, SPLITTER, BRANCH CONFIGURATION, ETC. INSTALL IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND INSTALLATION GUIDELINES.
- THE EXISTING BUILDING WILL BE OCCUPIED DURING CONSTRUCTION DURING NORMAL BUSINESS HOURS, WHICH ARE 7:30 AM TO 5:00 PM ON MONDAY THRU THURSDAY AND 7:30 AM TO NOON ON FRIDAY. ADDITIONALLY, THERE ARE REGULARLY SCHEDULED MEETINGS IN THE EVENINGS.
- PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN "AUTO" MODE.

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CARENCRO
CITY HALL
EXPANSION
2026



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| Drawn RW | Scale AS NOTED | |
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