



① LEVEL 9 MECHANICAL PLAN

**KEYED NOTES - SHEET iM2.09**

- 1 PROVIDE ACOUSTICALLY LINED RETURN AIR BOOT THRU WALL TO DECK AS HIGH AS POSSIBLE ABOVE CEILING WITH INLET ELBOW AND OUTLET 90° ELBOW FACING
- 2 PROVIDE ACOUSTICALLY LINED RETURN AIR BOOT THRU WALL TO DECK AS HIGH AS POSSIBLE ABOVE CEILING FROM SIDEWALL TRANSFER GRILLE TO 90° ELBOW FACING
- 3 REROUTE EXISTING MEDIUM PRESSURE DUCT AS INDICATED ON DRAWINGS AND MODIFY DUCTWORK AS REQUIRED FOR CONNECTION TO REMAINING EXISTING DUCT.
- 4 REMOVE EXISTING ELECTRIC PLENUM HEATER. COORDINATE DEMOLITION OF HEATER WITH OTHER TRADES INVOLVED CLEAN AND STORE AS DIRECTED BY ARCHITECT/ OWNER.
- 5 PROVIDE YOUNG REGULATOR FOR VOLUME DAMPER CONTROLS. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
- 6 PROVIDE ACCESS PANEL FOR ACCESS REQUIREMENTS OF EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AND COORDINATE EXACT LOCATION WITH ARCHITECT AND INSTALLED LOCATION OF EQUIPMENT IN THE FIELD.
- 7 AC UNIT TO BE SUSPENDED FROM STRUCTURE WITH ISOLATION SPRINGS. PROVIDE A GALVANIZED SHEET METAL SECONDARY DRAIN PAN THAT IS A MINIMUM OF 3" LARGER (ON EACH SIDE) THAN ANY DIMENSION OF THE UNIT AND MUST EXTEND UNDER THE CONDENSATE PUMPS.
- 8 INSTALL CONDENSING UNIT ON SUPPORTS EQUAL TO BIGFOOT SYSTEMS IN PITCH PAN ON ROOF. VERIFY EXACT LOCATION WITH ARCHITECT AND BUILDING REPRESENTATIVE. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH MANUFACTURER'S SPECIFICATIONS FOR REFRIGERANT REQUIREMENTS. COORDINATE ROUTING FROM AC UNIT TO ROOF WHERE CONDENSING UNIT IS LOCATED. LOCATION OF CU SHALL NOT EXCEED 150' OF PIPING BETWEEN UNITS.
- 9 WALL TO DECK INTERFERES WITH MAIN FLOOR RETURN AIR PATH. ENSURE WALLS TO DECK SURROUNDING THIS AREA IS HELD TO 4" BELOW DECK.
- 10 ENSURE WALL TO DECK IS HELD TO 4" BELOW DECK. OR ENSURE THERE IS AN OPENING WITH A CLEAR RETURN AIR PATH THRU WALL, OPENING TO BE SIZED AT 500 FPM.
- 11 PROVIDE INSULATION PAD TO BE INSTALLED BETWEEN THERMOSTAT AND PERIMETER WALL FOR THERMOSTATS MOUNTED ON EXTERIOR COLUMN WALLS.
- 12 ALL EXPOSED ROUND DUCTWORK SHALL BE INTERNALLY LINED SPIRAL DUCT WITH MICROBIAL GROWTH TREATMENT. DUCT SHALL MATCH SAME CONSTRUCTION AND MOUNTING HEIGHT AS 10TH FLOOR SPACE.
- 13 CONTRACTOR SHALL UNDERCUT DOOR 1" FOR RETURN AIR.
- 14 INSTALL EXPANDED TAP CONNECTION AS SHOWN ON DRAWINGS. REFER TO DETAIL ON SHEET M0.01.
- 15 CONNECT NEW EXHAUST DUCT TO EXISTING EXHAUST DUCT TAP AND TRANSITION DUCT AS REQUIRED.
- 16 INSULATED CONDENSATE DRAIN PIPING ABOVE CEILING. EXTEND AND DISCHARGE TO NEAREST FLOOR DRAIN IN MECHANICAL ROOM. CONDENSATE PIPING SHOWN OFF WALL FOR CLARITY ONLY. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, AND SLOPED AT 1/8" PER FOOT TOWARDS FLOOR DRAIN. PROVIDE CONDENSATE PUMP WITH UNIT IF REQUIRED SLOPE IS UNATTAINABLE.
- 17 INSULATED OVER FLOW CONDENSATE DRAIN PIPING ABOVE CEILING. EXTEND AND DISCHARGE TO ABOVE LAVATORY IN RESTROOM AS SHOWN. PIPING SHOWN OFF WALL FOR CLARITY ONLY. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, AND SLOPED AT 1/8" PER FOOT TOWARDS FLOOR DRAIN. PROVIDE CONDENSATE PUMP WITH UNIT IF REQUIRED SLOPE IS UNATTAINABLE.
- 18 ROUND TRANSFER DUCT TO TRANSITION DOWN TO 24X24 RETURN AIR GRILLE. PROVIDE BACKPLATE AT GRILLE WITH ROUND NECK. EXTEND ROUND DUCT TO FULL SIZED RETURN AIR PLENUM SERVING AHU.
- 19 TRANSITION RETURN AIR DUCT FROM SIDEWALL GRILLE AND EXTEND INSULATED DUCT TO FULL SIZED RETURN AIR PLENUM SERVING AHU.

