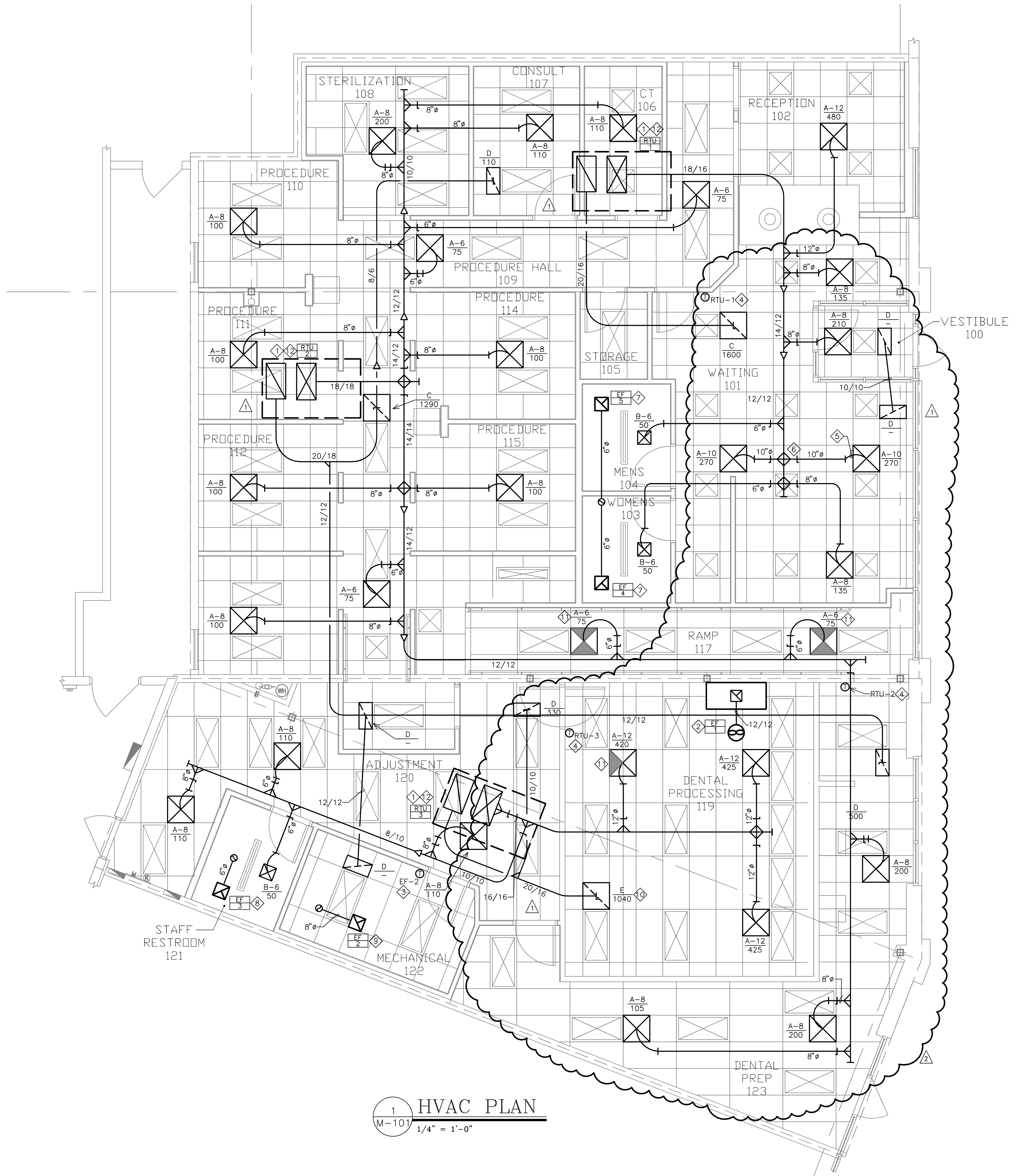


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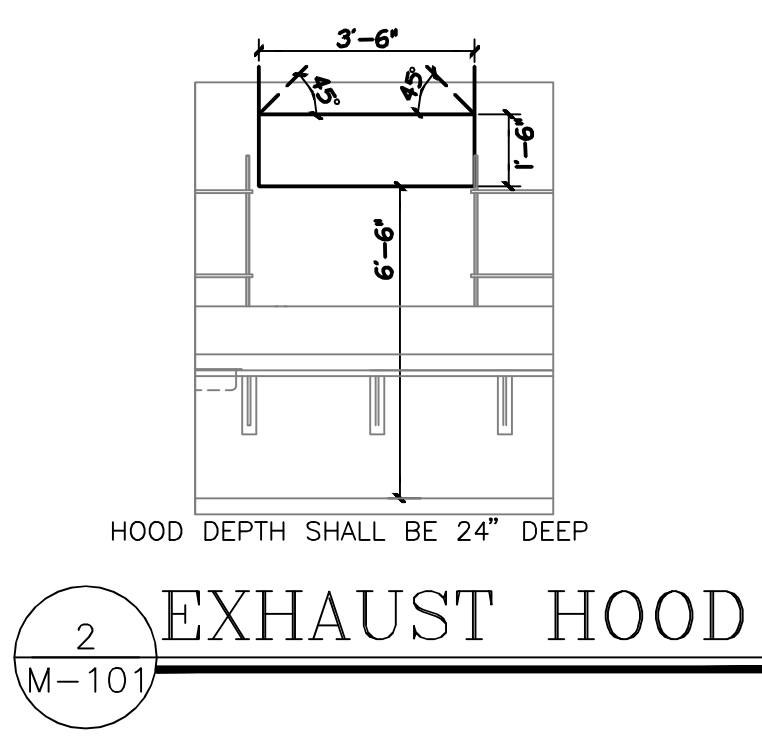
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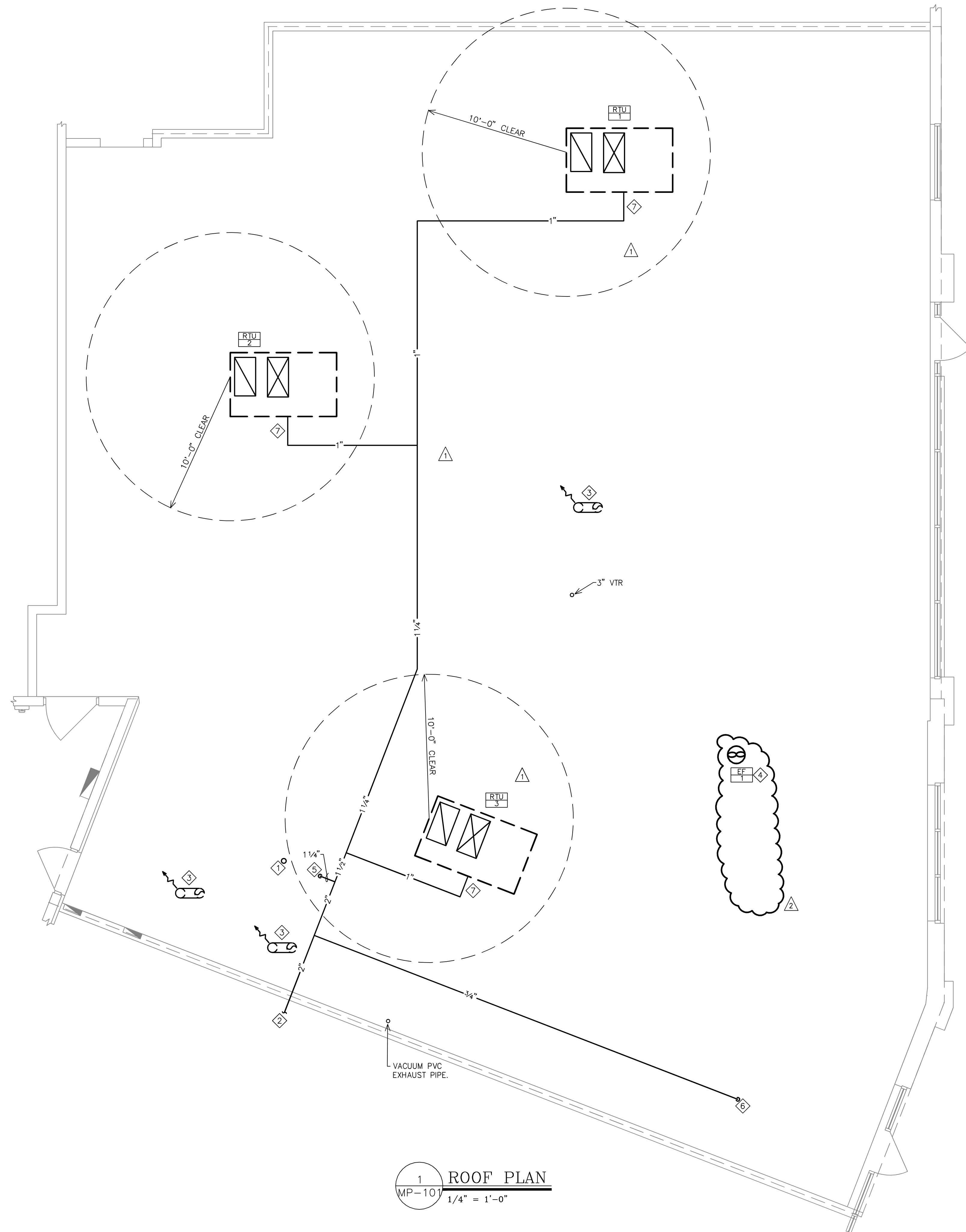
PROJECT LOCATION:
CINCINNATI, OH

- KEYED NOTES**
1. NEW GAS HEAT ROOFTOP UNIT. CONTRACTOR TO REMOVE EXISTING ROOFTOP UNIT AND PLACE NEW UNIT IN EXISTING LOCATION. RE-USE EXISTING ROOF CURB IF POSSIBLE. PROVIDE NEW IF REQUIRED. VERIFY EXACT LOCATION OF EXISTING UNIT IN FIELD. LOCATION ON DRAWINGS IS APPROXIMATE ONLY - SEE SCHEDULE FOR BALANCING DETAILS.
 2. 24"D x 42"W GALVANIZED SHEET METAL HOOD WITH 18" H VERTICAL APRON AT BOTTOM WHICH TAPERS UP TO DUCT SIZE AT THE CEILING (BOTTOM OF HOOD AT 6'-6" A.F.F.) SEE DETAIL 2/M-101. ROUTE 12"x12" GENERAL EXHAUST FAN EF-1. LOCATE EXHAUST FAN A MIN. OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES. SEE DETAIL 1/M-201. ADD METAL SKIRT FROM APRON TO ACT CEILING ABOVE.
 3. PROVIDE THERMOSTAT FOR EXHAUST FAN IN EQUIPMENT ROOM. MOUNT AT 48" A.F.F. - THERMOSTAT SHALL BE SET TO 80°F. UPON A RISE IN ROOM TEMPERATURE ABOVE THE SETPOINT THE FAN SHALL ENERGIZE AND CONTINUE TO RUN UNTIL ROOM TEMPERATURE DROPS BELOW SETPOINT.
 4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT, ECOBEE MODEL EMS-SI, FOR RTU CONTROL MOUNTED 4'-0" A.F.F. THERMOSTAT SHALL HAVE AUTOMATIC NIGHT SET-BACK WITH 6°F DEADBAND, 2-HOUR OCCUPANT OVERRIDE, AND MIN. 10-HOUR BATTERY BACKUP. THERMOSTAT JUNCTION BOX PROVIDED BY E.C.. THERMOSTAT AND WIRING BY M.C.. OWNER PROGRAMMING: OCCUPIED COOLING 75°F, OCCUPIED HEATING 69°F, UNOCCUPIED COOLING 80°F, UNOCCUPIED HEATING 55°F, OCCUPIED 7AM-6PM MON-FRI, UNOCCUPIED ON WEEKENDS.
 5. FLEX DUCT 5'-0" MAX LENGTH. TYPICAL FOR ALL. FLEX TO BE THE SAME SIZE AS DIFFUSER NECK
 6. VOLUME DAMPER AND SPIN-IN. TYPICAL FOR ALL. TAKE-OFF TO BE THE SAME SIZE AS THE DIFFUSER NECK.
 7. PROVIDE NEW TOILET EXHAUST FAN WITH INTEGRAL BACK DRAFT DAMPER. MECHANICAL CONTRACTOR TO CONNECT 6" DUCT FROM THE EXHAUST FAN TO 8" DUCT AND EXTEND 8" DUCT THRU THE ROOF TO GOOSENECK WITH BIRD SCREEN. LOCATE TOILET EXHAUST STACK SO THAT ALL ROOF PENETRATIONS OCCUR AT A MINIMUM OF TEN FEET (10'-0") AWAY FROM ANY MECHANICAL EQUIPMENT INTAKES OR OUTSIDE AIR INTAKE HOODS. USE LANDLORD DESIGNATED ROOFING CONTRACTOR FOR ALL ROOF WORK.
 8. PROVIDE NEW TOILET EXHAUST FAN WITH INTEGRAL BACK DRAFT DAMPER. MECHANICAL CONTRACTOR TO CONNECT 6" DUCT FROM THE EXHAUST FAN AND EXTEND 6" DUCT THRU THE ROOF TO GOOSENECK WITH BIRD SCREEN. LOCATE EXHAUST STACK SO THAT ALL ROOF PENETRATIONS OCCUR AT A MINIMUM OF TEN FEET (10'-0") AWAY FROM ANY MECHANICAL EQUIPMENT INTAKES OR OUTSIDE AIR INTAKE HOODS. USE LANDLORD DESIGNATED ROOFING CONTRACTOR FOR ALL ROOF WORK.
 9. PROVIDE NEW EXHAUST FAN WITH INTEGRAL BACK DRAFT DAMPER. MECHANICAL CONTRACTOR TO CONNECT 8" DUCT FROM THE EXHAUST FAN AND EXTEND 8" DUCT THRU THE ROOF TO GOOSENECK WITH BIRD SCREEN. LOCATE EXHAUST STACK SO THAT ALL ROOF PENETRATIONS OCCUR AT A MINIMUM OF TEN FEET (10'-0") AWAY FROM ANY MECHANICAL EQUIPMENT INTAKES OR OUTSIDE AIR INTAKE HOODS. USE LANDLORD DESIGNATED ROOFING CONTRACTOR FOR ALL ROOF WORK.
 10. PROVIDE 1" THROWAWAY MERV-8 FILTER IN RETURN GRILLE.
 11. BLANK-OFF SHADED PORTION OF DIFFUSER AS SHOWN.
 12. ROUTE 1" CONDENSATE PIPE W/ MIN. 3" DEEP P-TRAP TO LANDLORD APPROVED LOCATION. PROVIDE ALL FITTINGS PER LOCAL CODES AND LANDLORD REQUIREMENTS. VERIFY ROUTING AND LOCATION ON SITE.



1 HVAC PLAN
 M-101 1/4" = 1'-0"

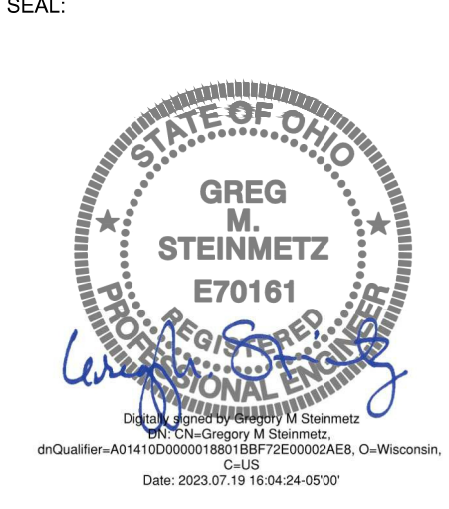




GAS SIZING CHART			
EQUIPMENT LISTING	CFH	QUANTITY	TOTAL CFH
RTU-1	80	1	80
RTU-2	80	1	80
RTU-3	80	1	80
GAS BURNERS	5	2	10
WATER HEATER	199	1	199
		TOTAL	449
TOTAL EQUIVALENT LENGTH OF GAS PIPING = 250'			
GAS PRESSURE = LESS THAN 2 PSI			
GAS PIPING MATERIAL = SCHEDULE 40 METALLIC PIPE			
GAS PRESSURE DROP = .5" W.C.			
NOTE: ALL GAS PIPE SIZING IS BASED ON TABLE 402.4(2) IN THE 2015 IFGC.			

- KEYED NOTES**
- CONCENTRIC VENT FOR INSTANTANEOUS GAS WATER HEATER (REFER TO PLUMBING DRAWINGS).
 - EXTEND AND CONNECT NEW 2" GAS PIPING TO EXISTING GAS METER, APPROX. 75' AWAY. VERIFY EXISTING GAS METER HAS A MINIMUM CAPACITY OF 449 CFH AT 7" W.C. PRESSURE. GAS PIPE SIZING BASED ON 250' TOTAL DEVELOPED LENGTH AND TABLE 402.4(2) OF THE 2015 IFGC. ANY ISSUES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER.
 - GOOSENECK EXHAUST VENT. REFER TO DETAIL 2/M-201.
 - ROOF MOUNTED EXHAUST FAN. REFER TO DETAIL 1/M-201.
 - 1-1/4" GAS DOWN THRU ROOF TO WATER HEATER.
 - 3/4" GAS DOWN THRU ROOF TO LAB BENCH. SEE DETAIL 1/P-102 FOR CONTINUATION.
 - PROVIDE BALL VALVE, DIRT LEG, UNION AND PRESSURE REGULATOR (AS REQUIRED) FOR EACH ROOFTOP UNIT.

1 ROOF PLAN
MP-101
1/4" = 1'-0"



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SHEET NUMBER / TITLE:
MP-101
 ROOF PLAN