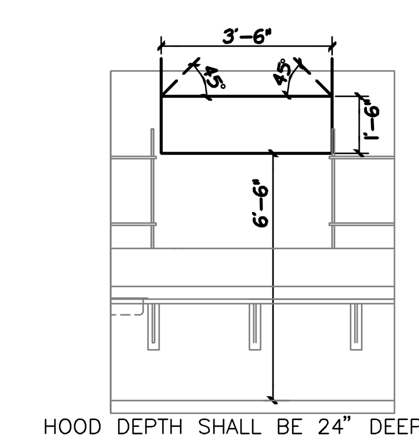
1
M-101
HVAC PLAN
1/4" = 1'-0"



2
M-101
EXHAUST HOOD

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 DUCT UP FROM HOOD TO ROOF MOUNTED 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"ø DUCT FROM THE EXHAUST FAN TO 8"ø DUCT AND EXTEND 8"ø 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"ø DUCT FROM THE EXHAUST FAN AND EXTEND 6"ø 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"ø DUCT FROM THE EXHAUST FAN AND EXTEND 8"ø 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.

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DUNHAM

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SEAL:

STATE OF OHIO
GREG M. STEINMETZ
E70161
REGISTERED PROFESSIONAL ENGINEER

Digitally signed by Gregory M Steinmetz
DN: CN=Gregory M Steinmetz, dnQualifier=A01410D0000018801BBF72E00002AE8, O=Wisconsin, C=US
Date: 2023.07.19 16:04:59-05'00'

PROJECT NO.: 2022-0530
DRAWN BY: SRM
CHECKED BY: GS

ISSUE:	DATE:
PERMIT REVIEW SUBMITTAL	04-19-2023

REVISION:		DATE:
1	CLIENT COMMENTS	05-16-2023
2	CLIENT REVISIONS	07-19-2023
3		
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PROJECT LOCATION:
CINCINNATI, OH

SHEET NUMBER / TITLE:
M-101
HVAC PLAN