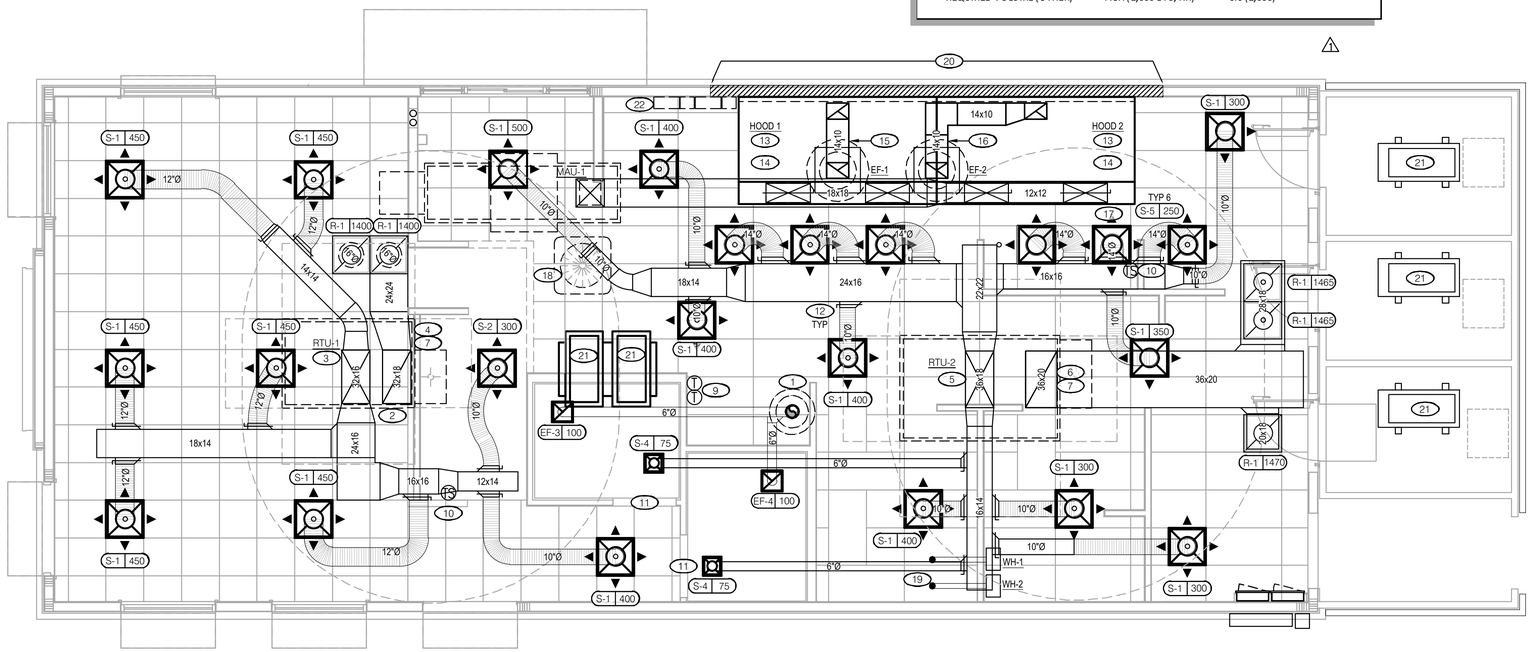
NOTE:
THE HOOD FIRE SUPPRESSION CONTRACTOR SHALL SUBMIT PLANS FOR EVALUATION AND APPROVAL PRIOR TO COMMENCEMENT OF NEW WORK.

INDOOR COMBUSTION AIR

$$\frac{\text{COMBUSTION AIR}}{\text{REQUIRED VOLUME (OTHER)}} \geq \frac{21\ \text{FT}^2\ (\text{I OTHER})}{\text{ACH}\ (1{,}000\ \text{BTU/HR})} \geq \frac{21\ (420{,}000)}{0.6\ (1{,}000)} \geq 14{,}700\ \text{FT}^3$$



NOTE:
PROVIDE SECONDARY CONDENSATE PROTECTION IN COMPLIANCE WITH FBC - MECH 307.2.3 AND RELATED SUBSECTIONS. PROVIDE SAFETY SHUT-OFF SWITCHES IN CONDENSATE DRAINS.

DUCT AND DIFFUSER PLAN 1/4"=1'-0" **A**

NOT USED **D**

A. INSTALLATION AND TERMINATION OF THE POWERED VENT SYSTEM FOR THE WATER HEATER SHALL BE IN ACCORDANCE WITH THE VENT AND WATER HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND LOCAL CODES AND REQUIREMENTS.

B. DINING ROOM / KITCHEN LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CEILING GRID / LIGHT FIXTURE LOCATIONS.

C. THERMOSTATS SHALL BE PROGRAMMABLE WITH SUBBASE AND REMOTE TEMPERATURE SENSOR; REFER TO KEYNOTES 9 and 10, THIS SHEET.

D. S/A DUCTS FOR RTU-1 (FRONT of HOUSE) SHALL RUN WITHIN THE TRUSS WEB SPACE; COORDINATE WITH STRUCTURAL DRAWINGS. SEE DETAIL 1 / S4.2.

GENERAL NOTES **C**

1. 8'Ø EXHAUST AIR DUCT UP TO ROOF MOUNTED MUSHROOM CAP, 200 CFM. SEE DETAIL 2 ON SHEET M4.0. PROVIDE BACKDRAFT DAMPER IN EACH EXHAUST DUCT CONNECTING EXHAUST FAN TO 8'Ø EXHAUST DUCT. EXHAUST FANS ÷ MOTOR DAMPERS SHALL BE WIRED TO RESTROOM LIGHTS AND CONTROLLED BY MOTION SENSOR; COORDINATE WITH ELECTRICAL.
2. THE INSIDE OF THE RETURN AIR DUCTS SHALL BE LINED FROM THE AIR HANDLING EQUIPMENT TO A DISTANCE OF 10' FROM THE UNIT WITH ULTRALITE #300 - 1/2" THICK OR OTHER APPROVED DUCT LINEAR ACOUSTICAL BOARD. THE MATERIAL SHALL BE FITTED CAREFULLY ON THE INSIDE OF THE DUCT AND SHALL BE FASTENED ON WITH CEMENT SUPPLEMENTED BY SCREWS AND WASHERS ON TOP AND SIDES OF DUCT.
3. 32 x 16 SUPPLY AIR DUCT: CONNECT TO SUPPLY AIR OPENING AT ROOFTOP UNIT, RTU-1 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
4. 32 x 18 RETURN AIR DUCT: CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-1 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
5. 36 x 18 SUPPLY AIR DUCT: CONNECT TO SUPPLY AIR OPENING AT ROOFTOP UNIT, RTU-2 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
6. 36 x 20 RETURN AIR DUCTS: CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-2 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
7. FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE WITH LOCAL CODES. DUCT SMOKE DETECTOR WIRED BY ELECTRICAL CONTRACTOR, COORDINATE WITH ELECTRICAL.
8. FURNISH AND INSTALL 3" SCHEDULE 40 PVC WATER HEATER CONCENTRIC VENT TO ROOF. COORDINATE WORK WITH ALL TRADES.
9. THERMOSTAT.
10. THERMOSTAT REMOTE SENSOR . MOUNT at 60" A.F.F.
11. UNDERCUT RESTROOM DOORS MIN. 1/2" FOR MAKE-UP AIR.
12. PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR DIFFUSERS, IN ACCESSIBLE LOCATION WHENEVER POSSIBLE. FOR NON ACCESSIBLE LOCATIONS PROVIDE REMOTE CABLE CONTROL UNIT BOWDEN MODEL 270-301 AS MANUFACTURED BY YOUNG REGULATOR CO. OR APPROVED EQUAL.
13. CANTILEVER HOOD SUPPORT RODS AWAY FROM DUCTWORK. USE ANGLE TO OFFSET THE SUPPORTS.
14. SUPPLY, RETURN, OR EXHAUST DUCTWORK RUN BETWEEN ROOF TRUSSES.
15. 14 x 10 EXHAUST AIR DUCT DOWN, TRANSITION AS NECESSARY TO CONNECT TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAILS ON SHEET M4.0 FOR FIRE PROTECTION OF DUCTWORK.
16. 14 x 10 EXHAUST AIR DUCT DOWN, TRANSITION AS NECESSARY TO CONNECT TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN EF-2. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAILS ON SHEET M4.0 FOR FIRE PROTECTION OF DUCTWORK.
17. MAKE-UP AIR CONNECTION TO HOOD PLENUM. BALANCE TO 680 CFM EACH (TYP OF 4)
18. MAKE-UP AIR CONDENSING UNIT ON ROOF EQUIPMENT STAND.
19. FURNISH AND INSTALL 3" SCHEDULE 40 PVC CONCENTRATE WATER HEATER INTAKE/VENT TERMINATION. RUN THRU WEBS TO OUTFALL AT VENT KIT ON ROOF. TERMINATION SHALL BE MIN 1'-0" AFR.
20. EXTERIOR HOOD WALL SHALL BE MTL STUD FRAMING, CEMENT BOARD WITH STAINLESS COVER EXTENDING 18" BEYOND ALL SIDES. SEE SHEET A5.2 FOR WALL DETAILS.
21. COORDINATE LOCATION OF REFRIGERATION CONDENSING UNITS FOR ICE MACHINES, COOLERS AND FREEZERS.
22. HOOD FIRE SUPPRESSION SYSTEM, SEE SHEET M3.1.

KEY NOTES **B**

REVIEWED
For Code Compliance
City of Ocala Growth Management
BLD22-1101 09/07/22

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Digitally signed by ROBERT W CASE
Date: 2022.03.31 10:27:04 -04'00'

ROBERT WAYNE CASE
FLORIDA PE. #44643

PLAN SET REVISIONS:
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CONTRACT DATE: -.-.-2019
BUILDING TYPE: Kb 30-19
PLAN VERSION: 2018.A
SITE NUMBER:
ENTITY NUMBER:
STORE NUMBER:
LIS PROJECT; 2019-304

KFC
3615 W SILVER SPRINGS BLVD.
OCALA, FL

Kb 30-19
MECHANICAL DIFFUSER AND DUCT PLAN

M2.0

PLOT DATE: 03/29/2022