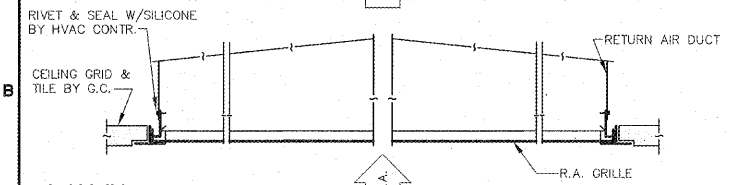
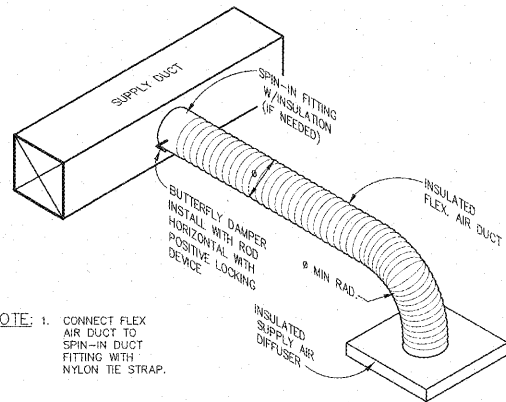


SURFACE MOUNTED



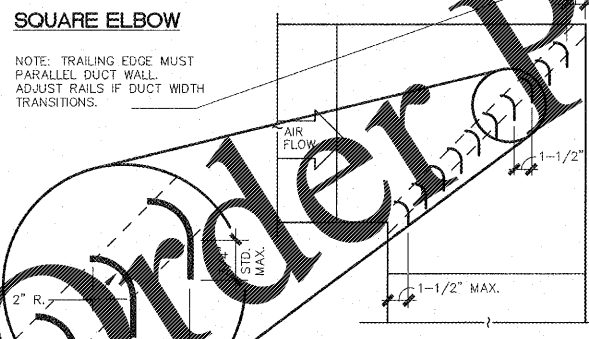
1 GRILLE CONNECTION
M301 SCALE: NONE

2 FLEXIBLE DUCT SPLICING DETAIL
M301 SCALE: NONE



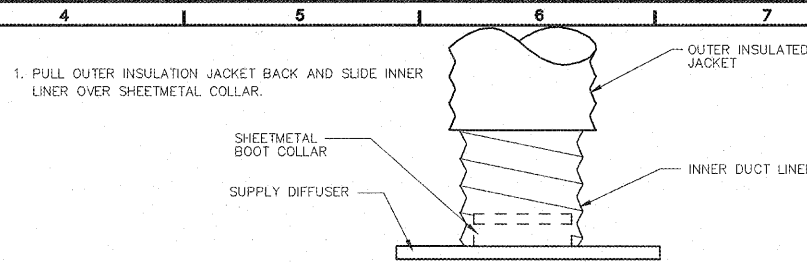
NOTE: 1. CONNECT FLEX AIR DUCT TO SPIN-IN DUCT FITTING WITH NYLON TIE STRAP.

3 TYPICAL DUCT CONNECTION
M301 SCALE: NONE



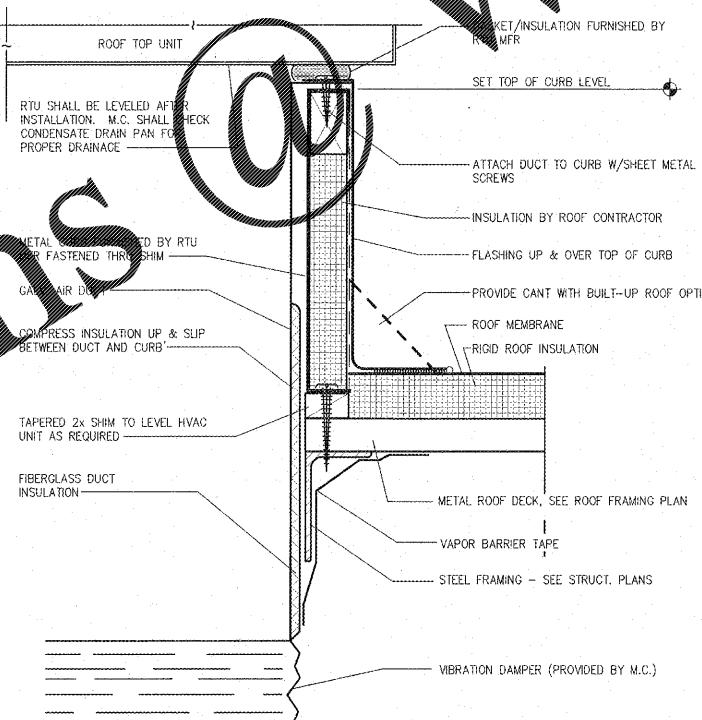
NOTE: THIS IS AN ASHRAE TYPE 3 VANE AVAILABLE FROM BARBER-COLEMAN OR SHOP FAB. WITH RAILS FROM "EAST COAST METAL DISTRIBUTORS" OR EQUAL.

4 TYPICAL DUCT ELBOW
M301 SCALE: NONE



5 FLEX DUCT CONNECTION TO DIFFUSERS AND SHEETMETAL DUCTWORK COLLARS
M301 SCALE: NONE

6 ROOF CURB DETAIL
M301 SCALE: NONE



HVAC SEQUENCE OF OPERATION

M.C. SHALL SET THERMOSTAT "OCCUPIED" AND "UNOCCUPIED" MODES TO OWNER'S OPERATION SCHEDULE. EVAPORATOR FANS SHALL RUN CONTINUOUSLY(ON) IN THE "OCCUPIED" MODE.

NORMAL OPERATION (OCCUPIED):
EF-1, EF-2 AND SF-1, EVAPORATOR FANS, AND ECONOMIZERS ON RTU-1 AND RTU-2 SHALL OPERATE CONTINUOUSLY UPON ACTIVATION OF KITCHEN HOOD SWITCH. INTERLOCK RELAY FIELD PROVIDED. NORMALLY OPEN CONTACTS FOR THIS ARE INCLUDED INTERNALLY IN THE HOOD ELECTRICAL CONTROL PANEL. SEE DETAILS THIS SHEET AND HOOD SHEETS.
UPON DEACTIVATION OF THE KITCHEN HOOD CONTROL PANEL, ALL AIR HANDLING UNITS SHALL BE CONTROLLED VIA INDIVIDUAL SENSORS AND THERMOSTATS.

THE TEMPERATURE SCHEDULE SET POINTS SHALL BE SPECIFIC FOR EACH RTU AND SHALL BE FIELD ADJUSTABLE.
SPACE TEMPERATURE SET POINTS: RTU-2: 74°F COOLING, 70°F HEATING
RTU-1: 78°F COOLING, 68°F HEATING
SPACE HUMIDITY SET POINTS: RTU1&2: 60% RH

ALL RTU'S COOLING/HEATING SWITCH/OVER SHALL BE AUTOMATIC BASED ON THE SPACE DEMAND. EVAPORATOR FANS SHALL BE SET TO RUN CONTINUOUSLY(ON) DURING "OCCUPIED" MODES. OUTSIDE AIR INTAKE ON ECONOMIZERS OR DAMPERS SHALL BE IN MINIMUM OPEN POSITION TO DELIVER CFM'S INDICATED IN AIR BALANCE SCHEDULE ON SHEET M2 OR SHALL FOLLOW THE ECONOMIZER OPERATION DESCRIBED BELOW.

ECONOMIZER OPERATION (IF APPLICABLE):
THE RTU'S EQUIPPED WITH ECONOMIZERS (SEE UNITS SCHEDULE ON SHEET M1) SHALL UTILIZE "FREE COOLING" AS THE FIRST STAGE OF COOLING. WHEN OUTDOOR AIR ENTHALPY IS LOWER THAN THE MIXED AIR ENTHALPY, OUTSIDE AIR INTAKE DAMPERS SHALL MODULATE FROM MIN. TO MAX. OPEN POSITION AND SPACE RETURN AIR DAMPERS SHALL MODULATE FROM MAX. TO MIN. RELIEF DAMPERS SHALL BE CONTROLLED RESPECTIVELY VIA INTEGRAL RTU CONTROL. IF THE OUTSIDE AIR ALONE CANNOT SATISFY THE SPACE COOLING DEMAND, THE COMPRESSORS SHALL BE ENERGIZED. WHEN OUTDOOR AIR ENTHALPY IS HIGHER THAN MIXED AIR ENTHALPY, OR WHEN THE LOW LIMIT SENSOR LOCATED IN DISCHARGE AIR REACHES ITS SET POINT (55°F - 60°F), THE OUTDOOR AIR AND RETURN AIR DAMPERS SHALL BE SET TO DELIVER MINIMUM G.A. CFM'S INDICATED IN THE AIR BALANCE SCHEDULE.

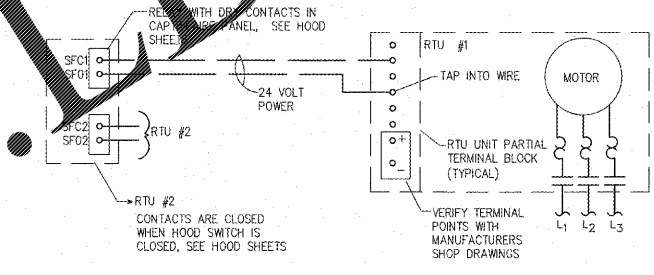
NIGHT SETBACK OPERATION (UNOCCUPIED):
SPACE TEMPERATURE SET POINTS: RTU-1, AND 2: 85°F COOLING, 55°F HEATING.

ALL RTU'S EVAPORATOR FANS, COMPRESSORS AND HEATER SHALL RUN ON DEMAND ONLY(AUTO) ANY MOTORIZED OUTSIDE AIR DAMPERS SHALL BE IN CLOSED POSITION. M.C. SHALL VERIFY REQUIREMENT FOR AUTOMATIC SETBACK CONTROL WITH LOCAL AUTHORITIES AND COORDINATE WITH EQUIPMENT SUPPLIER.

EMERGENCY OPERATION:
E.C. SHALL WIRE ANSUL SYSTEM ON TYPE 1 GREASE COOKING HOOD SO THAT UPON FIRE DETECTION OR MANUAL ACTIVATION ALL POWER TO EQUIPMENT UNDER HOOD SHALL BE ISOLATED, WHILE THE EXHAUST FAN SHALL CONTINUE TO OPERATE. ELECTRICAL SHUNT TRIPPING SHALL ISOLATE ALL POWER TO EQUIPMENT UNDER HOOD. EVAPORATOR FAN ON EACH RTU SHALL BE SHUT DOWN BY INDIVIDUAL SMOKE DETECTOR UPON DETECTING SMOKE.

FIRE PROTECTION GLOBAL SHUTDOWN:
IF LOCAL CODE OFFICIAL REQUIRES GLOBAL SHUTDOWN OF ALL RTU'S UPON SMOKE DETECTION IN ANY RTU DUCTWORK, MANUAL ACTIVATION OF SPRINKLER OR ANSUL SYSTEM, FIRE DETECTION UNDER ANY HOOD, OR WATER FLOW IN THE SPRINKLER SYSTEM, THE FIRE ALARM SYSTEM SHALL PROVIDE A RELAY WHICH IS TIED TO THE FIRE ALARM PANEL TO SHUT DOWN ALL RTU'S SIMULTANEOUSLY.

HOODS:
HOODS HAVE (1) SWITCH FOR FAN OPERATION AND (2) SWITCH FOR LIGHTS. THE MANAGER SHOULD TURN BOTH SWITCHES ON UPON ARRIVAL. ENERGIZING THE FAN SWITCH ENABLES THE CONTROL PANEL TO AUTOMATICALLY TURN ON EXHAUST FAN. HOOD TEMPERATURE REACHES 300 DEGREES (MEASURED BY DUCT STAT IN HOOD RISER AND COMPARED TO BASE ROOM SENSOR.), EXHAUST FAN WILL TURN OFF ONLY IF HOOD TEMPERATURE IS BELOW 85 DEGREES FINISHED FOR THE DAY. THE MANAGER SHOULD TURN THE HOOD LIGHT SWITCH OFF AND THE FAN SWITCH TO AUTO (WILL ACTIVATE AUTOMATICALLY IF RISER TEMPERATURE REACHES 85). THERE IS A FAN OVER-RIDE SWITCH.



NOTES:
1. M.C. SHALL WIRE SENSOR TO RTU TERMINAL BLOCK #1 IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. DASHED LINE INDICATES WIRING PROVIDED/INSTALLED BY M.C. SOLID LINE WIRING IS PROVIDED BY E.C.
3. LENNOX RESERVES THE RIGHT TO CHANGE THE REQUIRED TERMINATION POINTS AND SETTINGS AS DESCRIBED ABOVE. CONTACT LENNOX FOR LATEST REQUIREMENTS PRIOR TO STARTING ANY WORK.

7 RTU INTERLOCK WIRING DETAIL
M301 SCALE: NONE

LHRT Project No. 18187
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PROJECT: FIVE GUYS BURGERS & FRIES
630 CRANE CREEK DRIVE
AUGUSTA, GA, 30907
DRAWING: MECHANICAL DETAILS AND CONTROLS

Revisions

REVISION DATE

PROJECT DATE: 12.3.18
Drawn By: RJB
Checked By: MJM
Sheet No.: M301

Order Plans