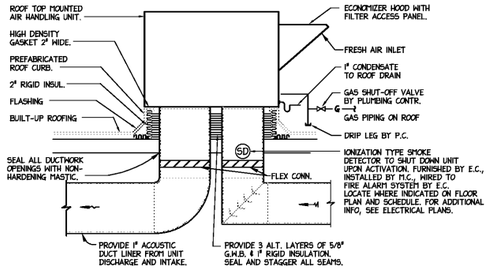
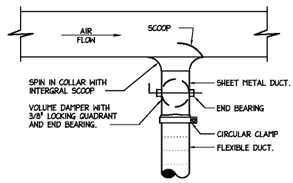


NOTES:

1. 1½" AUXILIARY DRAIN PAN WITH MICROFLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH FURNACE. INSTALL FLOAT SWITCH IN ONE CORNER OF PAN AND TILT PAN TO THAT CORNER.

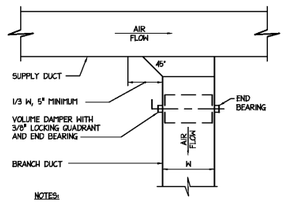
1 GAS ROOFTOP UNIT
NO SCALE



NOTES:

1. SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
2. TAP OFF TOP/SIDE/BOTTOM OF DUCT AS REQUIRED

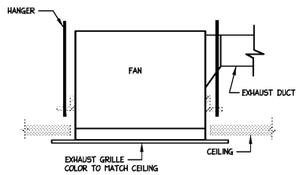
2 BRANCH TAKEOFF TO SINGLE OUTLET
NO SCALE



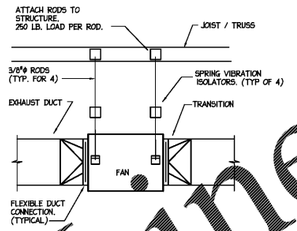
NOTES:

1. SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
2. TAP OFF TOP/SIDE/BOTTOM OF DUCT AS REQUIRED

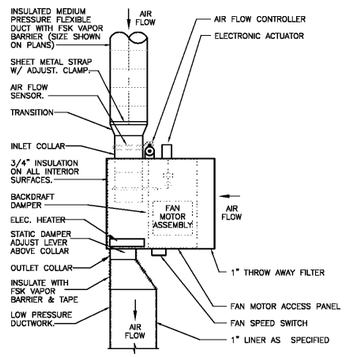
3 BRANCH TAKEOFF
NO SCALE



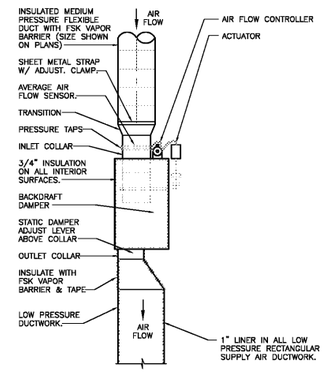
4 EXHAUST FAN DETAIL
NO SCALE



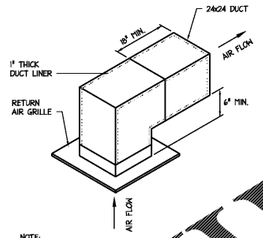
5 IN-LINE FAN DETAIL
NO SCALE



6 VARIABLE VOLUME FAN POWERED BOX W/ ELEC. HEAT
NO SCALE



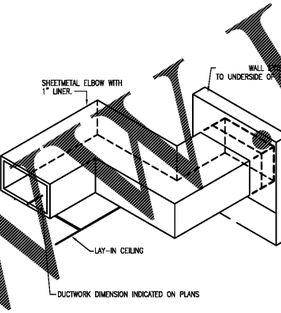
7 VARIABLE VOLUME BOX DETAIL
NO SCALE



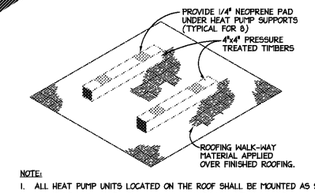
NOTE:

THIS DETAIL IS TYPICAL FOR ALL RETURN AIR DIFFUSERS IN OFFICES, PROCEDURE AND EXAM ROOMS, ETC., WITH SOUND BATTS IN WALLS, ON CEILING AND WHERE WALLS EXTEND UP TO STRUCTURE. EXTEND SOUND TRAP LEG THRU WALLS AS REQ'D TO INSURE THAT ALL ROOMS HAVE RETURN AIR CAPABILITIES. COORD. W/ARCH'L DWGS.

8 SOUND TRAP DETAIL
NO SCALE



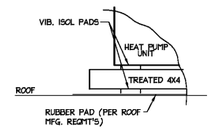
9 TRANSFER AIR DUCT
NO SCALE



NOTE:

1. ALL HEAT PUMP UNITS LOCATED ON THE ROOF SHALL BE MOUNTED AS SHOWN.
2. ALL HEAT PUMP UNITS TO BE EQUIPPED WITH VIBRATION ISOLATORS.

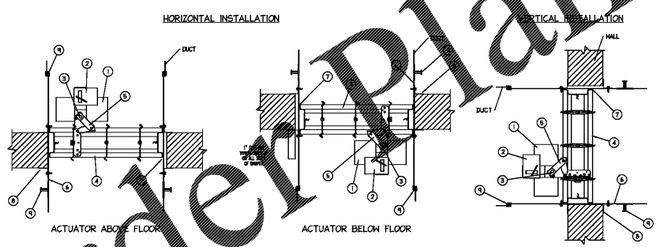
10 HEAT PUMP UNIT ROOF MOUNTING DETAIL
NO SCALE



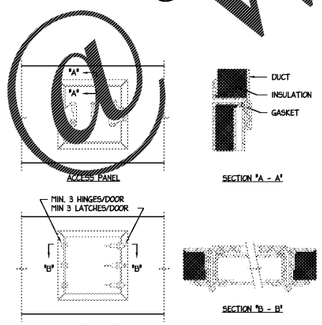
11 CONDENSING UNIT PAD DETAIL
NO SCALE

ITEM. DESCRIPTION

1. ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. RUSKIN'S UL LISTED FIRE DAMPER ACTUATORS MAY BE FIELD INSTALLED IF PROPERLY LABELED. SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS.
2. OPTIONAL FIRESTAT OR SP100
3. AUXILLARY OPERATING JACK SHAFT
4. DAMPER
5. OVER CENTER LOCK
6. SLEEVE
7. CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME
8. PFMA OR CONVENTIONAL MOUNTING ANGLES
9. S-JOINT/DUCT MATE, SLEEVE TO DUCT



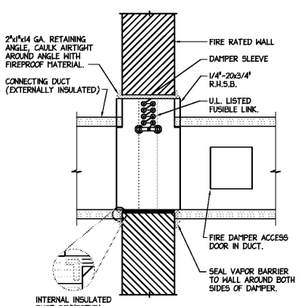
12 FIRE-SMOKE DAMPER DETAIL
NO SCALE



NOTES:

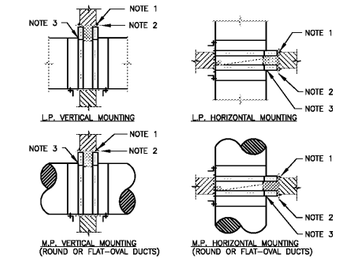
1. LATCHES SHALL BE OF THE HEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. PROVIDE ACCESS DOORS ON DUCTWORK INSTALLED IN CHASE, ABOVE CEILING, INSTALLED IN EQUIPMENT ROOMS. PROVIDE ACCESS PANELS ON ALL EQUIPMENT AND DUCTWORK INSTALLED ABOVE FINISHED CEILINGS WHERE SPACE LIMITATIONS DO NOT ALLOW HINGED DOORS TO OPEN.
4. DOORS/PANELS TO HAVE UL LISTING WHERE LOCATED IN RATED CHASE ASSY.

13 ACCESS DOOR AND PANEL DETAILS
NO SCALE



14 DUCT FIRE DAMPER DETAIL
NO SCALE

NOTE:
FIRE DAMPERS ARE TO BE LISTED & LABELED, AND COMPLY WITH U.L. 555.
SMOKE DAMPERS ARE TO BE LISTED & LABELED, AND COMPLY WITH U.L. 555S.
FIRE-SMOKE DAMPERS ARE TO BE LISTED & LABELED, AND COMPLY WITH U.L. 555 & 555S.
RADIATION DAMPERS ARE TO BE LISTED & LABELED, AND COMPLY WITH U.L. 555C.



NOTES:

1. ANGLES SHALL BE A MINIMUM OF 1-1/2x1-1/2x1/8. FASTEN TO COLLAR ONLY W/ 1/4" DIA. NUTS BOLTS. ANGLES REQ'D ON ALL FOUR SIDES OF WALL OR FLOOR SLAB. (TYP. ALL FIRE DAMPERS)
2. COLLAR GAUGES SHALL CONFORM TO SMACNA STDS. (TYP. ALL FIRE DAMPERS)
3. USE SLIP JOINT CONN. AS RECOMMENDED BY SMACNA (TYP. ALL FIRE DAMPERS)
4. PROVIDE AN ACCESS DOOR IN DUCTWORK FOR EACH DAMPER FOR ACCESS TO FUSIBLE LINKS. CONTRACTOR SHALL ASSURE ACCESS THRU CEILING AND STRUCTURE. ACCESS DOORS SHOWN ON PLANS FOR CLARITY.

15 FIRE DAMPER DETAILS
NO SCALE

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DEC 7, 2018
PROJECT NUMBER = C-2130

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DB CONSULTING
246 LOVES FARM ROAD
BLACKSBURG, SC 29702
(704) 497-7228 FIRM NO.: C-TBD

REVISIONS

DATE DECEMBER 7, 2018
PROJECT NUMBER 9197-000

SHEET TITLE
DETAILS

SHEET NUMBER
M-003

96-1719-M003.dwg, Plotted By: kayse
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