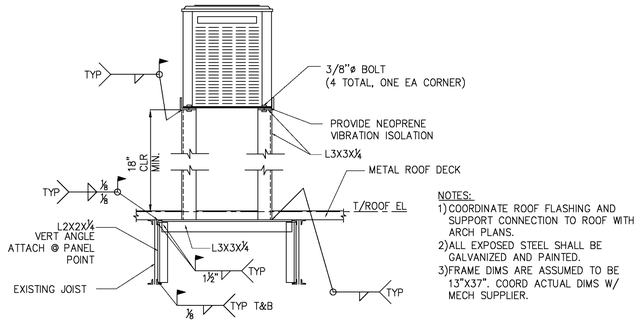
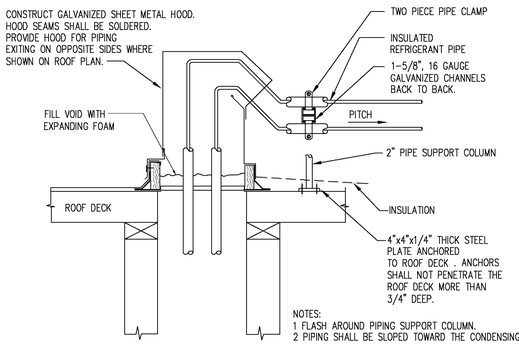


NOTES:
1) COORDINATE ROOF FLASHING AND SUPPORT CONNECTION TO ROOF WITH ARCH PLANS.
2) ALL EXPOSED STEEL SHALL BE GALVANIZED AND PAINTED.
3) FRAME DIMS ARE ASSUMED TO BE 13"X37". COORD ACTUAL DIMS W/ MECH SUPPLIER.

5 M2.1 ROOF-MOUNTED CONDENSER DETAIL

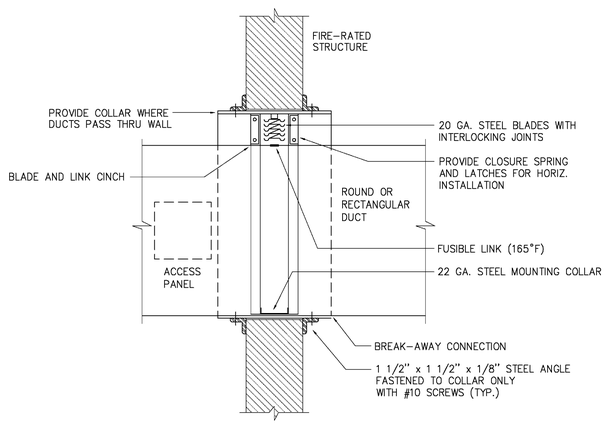
NOT TO SCALE



NOTES:
1 FLASH AROUND PIPING SUPPORT COLUMN.
2 PIPING SHALL BE SLOPED TOWARD THE CONDENSING UNITS.

6 M2.1 REFRIGERANT PIPING ROOF PENETRATION

NOT TO SCALE

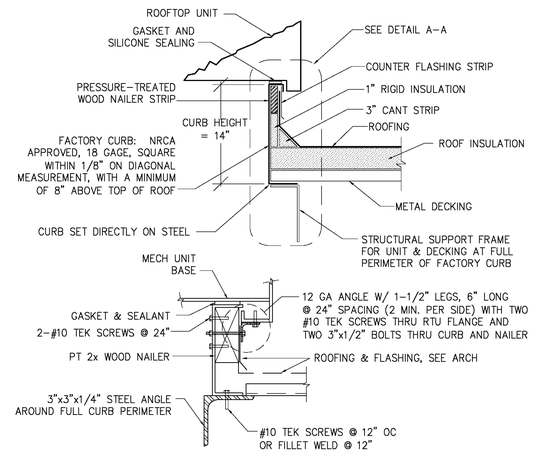


7 M2.1 UL-555 DYMANIC FIRE DAMPER DETAIL

NOT TO SCALE

MECHANICAL SUBCONTRACTOR SHALL PROVIDE ITEMS NOTED BELOW

GENERAL CONTRACTOR SHALL PROVIDE ITEMS NOTED BELOW

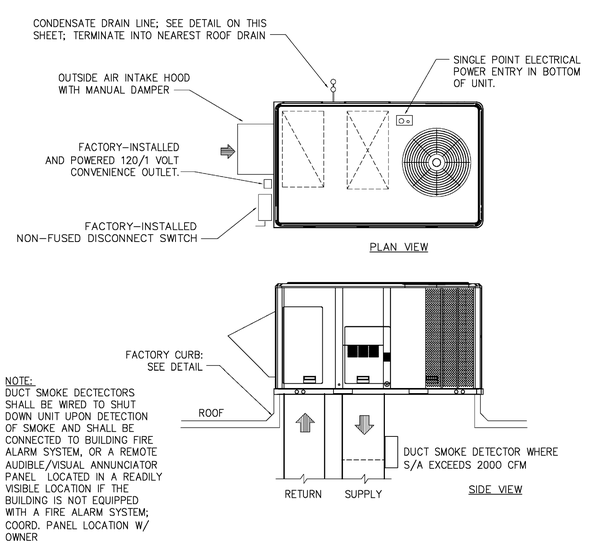


DETAIL A-A

1. MECHANICAL SUBCONTRACTOR SHALL FURNISH ROOF OPENING SIZES & LOCATIONS, FOR STRUCTURAL SUPPORT FRAMING BY GENERAL CONTRACTOR.
2. THIS CURB DETAIL WILL ALLOW THE UNIT TO SLOPE WITH THE SLOPE OF THE ROOF PITCH. THIS DETAIL CAN ONLY BE USED (A) IF THE CONDENSATE DRAIN PAN OUTLET IS ON THE LOW SIDE OF THE UNIT, OR (B) IF THE CONDENSATE DRAIN PAN IS NOT AFFECTED BY SLOPE. THIS DETAIL CAN NOT BE USED IF THE CONDENSATE DRAIN CONNECTION IS ON THE HIGH SIDE OF THE UNIT.
3. COORDINATE THIS DETAIL WITH ARCHITECTURAL APPLICATIONS FOR THE ROOF.

2 M2.1 ROOFTOP UNIT CURB DETAIL

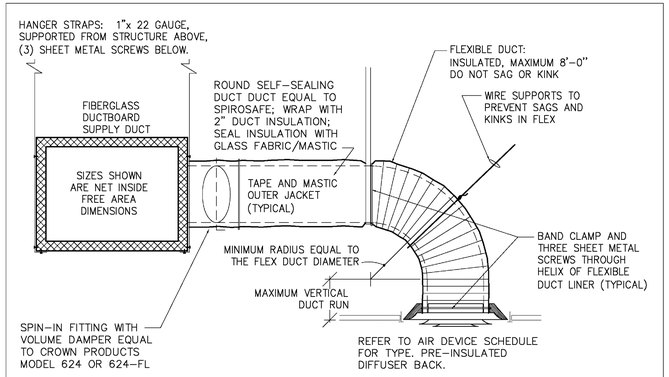
NOT TO SCALE



NOTE:
DUCT SMOKE DECTECTORS SHALL BE WIRED TO SHUT DOWN UNIT UPON DETECTION OF SMOKE AND SHALL BE CONNECTED TO BUILDING FIRE ALARM SYSTEM, OR A REMOTE AUDIBLE/VISUAL ANNUNCIATOR PANEL LOCATED IN A READILY VISIBLE LOCATION IF THE BUILDING IS NOT EQUIPPED WITH A FIRE ALARM SYSTEM; COORD. PANEL LOCATION W/ OWNER

5 M2.1 ROOFTOP UNIT DETAIL

NOT TO SCALE

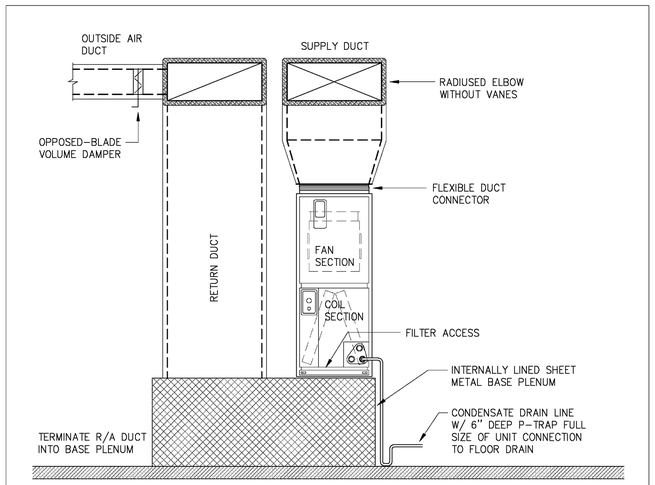


DUCT FABRICATION NOTES:

1. DUCTS SHALL BE FABRICATED & INSTALLED PER THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS.
2. ALTERNATE INTERPRETATIONS OF SMACNA DUCT MATERIAL, HANGERS AND REINFORCEMENTS ARE SUBJECT TO ENGINEER APPROVAL, AND REQUIRE SEPARATE SUBMITTAL OF THE ALTERNATES.
3. FLEXIBLE DUCT CONNECTORS SHALL BE PROVIDED WHERE SHOWN ON THE PLAN.
4. SUPPLY AIR DROPS FROM ROOFTOP UNITS SHALL TRANSITION FROM THE UNIT OPENING SIZE TO MITERED ELBOWS, WITH SIZES AS SHOWN ON THE PLAN. IF TWO SUPPLY AIR DUCT RUNS ARE AT THE UNIT, THEN TWO SEPERATE DROPS & ELBOWS SHALL BE PROVIDED.
5. RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE UNIT OPENING.
6. OFFSETS SHALL NOT REDUCE THE FREE AREA, AND SHALL NOT EXCEED 30°. A RADIUS HEEL SHALL BE PROVIDED ON 30° OFFSETS. SMALLER OFFSETS SHALL BE MITERED AT BOTH THE HEEL & THROAT.
7. TRANSITIONS SHALL NOT EXCEED 1:3 RATIO (4" TRANSITION PER FOOT SINGLE SIDED TRANSITION, AND 8" PER FOOT DOUBLE SIDED TRANSITION).
8. INSULATION SHALL BE NFPA 90 APPROVED, WITH MINIMUM R-VALUE OF 6.0. WRAP INSULATION SHALL BE 2" THICK (MINIMUM R-6) WITH ALUMINUM FOIL FACING.
9. RECTANGULAR BRANCH CONNECTIONS SHALL BE 45° ENTRY TYPE PER SMACNA FIGURE 2-6.
10. ROUND DUCT CONNECTIONS SHALL BE WITH "CROWN PRODUCTS COMPANY" 624 OR 624-FL FITTINGS, DAMPER AND HANDLE. SPRAY PAINT LOCATIONS OF HANDLES.
11. FLEXIBLE DUCT SHALL INCLUDE AN INNER POLYETHYLENE LINER, A SPRING HELIX, 1-1/4" BLANKET INSULATION (R-6.0), A FOIL OUTER VAPOR BARRIER, AND BE UL-181 APPROVED.
12. ALL TAPE SHALL BE SMACNA APPROVED.
13. SEAL ALL SUPPLY, RETURN & OUTSIDE AIR DUCT JOINTS WITH DUCT SEALER; SEAL ALL INSULATION JOISTS WITH GLASS FABRIC AND MASTIC.

1 M2.1 CONCEALED DUCTWORK DETAIL

NOT TO SCALE



2 M2.1 VERTICAL AIR HANDLING UNIT DETAIL

NOT TO SCALE

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MECHANICAL DETAILS

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DRAWN BY:	WMG
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SHEET NO:
M2.1
SHEET