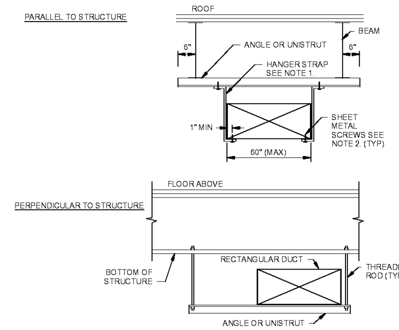
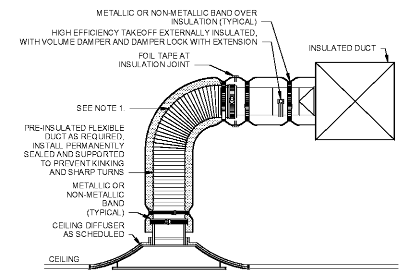


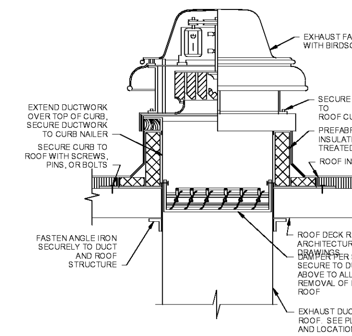
NOTES:
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 60"Ø WIDE.
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.
3. CONNECTIONS TO SLAB OR DECKING ABOVE ARE NOT PERMITTED.

(4) RECTANGULAR DUCT SUPPORT DETAIL
NTS

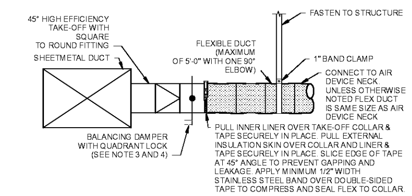


NOTES:
1. EXTEND RIGID METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.

(3) LAY-IN CEILING DIFFUSER DETAIL
NTS

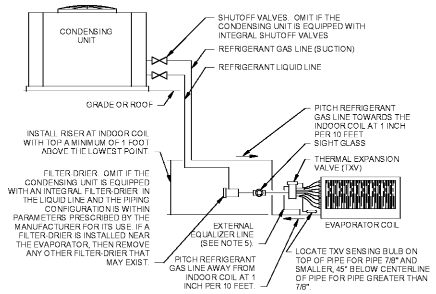


(2) DOWNBLAST EXHAUST FAN DETAIL
NTS



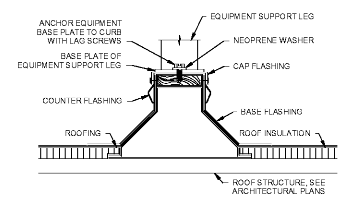
NOTES:
1. CUT OPENING IN SHEETMETAL DUCT ACCURATELY. INSTALL 45° LATERAL TO AVOID VISIBLE OPENINGS AND SECURE FITTING SUITABLY FOR PRESSURE CLASS.
2. INSTALL FLEXIBLE DUCT IN AS STRAIGHT A RUN AS POSSIBLE. USE LONG RADIUS BENDS WHERE POSSIBLE. PULL DUCT TIGHT AT BOTH ENDS AND SECURE BOTH INNER LINER & OUTER INSULATION SKIN WITH TAPE & METAL CLAMPS.
3. EXTEND DAMPER ROD TO ACCOMMODATE INSULATION IF APPLICABLE. FULL ROD END TO EDGE OF DUCTWORK AS REQUIRED AND SEAL TO MAINTAIN VAPOR BARRIER.
4. INSTALL LOCKING QUADRANT TO HANDLE ON BOTTOM OF DUCT FOR EASE OF SERVICE.

(1) 45° LATERAL FLEXIBLE DUCT TAKE OFF DETAIL
NTS

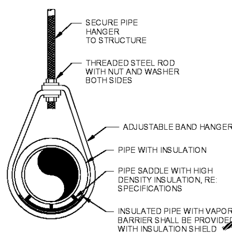


NOTES:
1. INSTALL REFRIGERANT PIPING AND COMPONENTS IN STRICT CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, WHICH SHALL TAKE PRECEDENT OVER INFORMATION PRESENTED IN THIS DETAIL.
2. ALL COMPONENTS INSTALLED SHALL BE THE EXACT MODEL RECOMMENDED BY THE MANUFACTURER WITHOUT EXCEPTION.
3. CONSULT THE MANUFACTURER REGARDING THE NEED TO INSTALL A SOLENOID VALVE IN THE LIQUID LINE BETWEEN THE FILTER-DRIER AND SITE GLASS.
4. INSTALL REFRIGERATION PIPE SIZES RECOMMENDED BY THE MANUFACTURER AND CONSULT THE MANUFACTURER REGARDING THE NEED FOR INTERMEDIATE TRAPS BASED ON THE RECOMMENDED PIPE SIZES AND PIPING CONFIGURATION.
5. INSTALL THERMAL EXPANSION VALVE WITH BALANCED PORT CONSTRUCTION AND EXTERNAL EQUALIZER LINES FOR ALL EVAPORATOR COILS EQUIPPED WITH A REFRIGERANT DISTRIBUTOR.

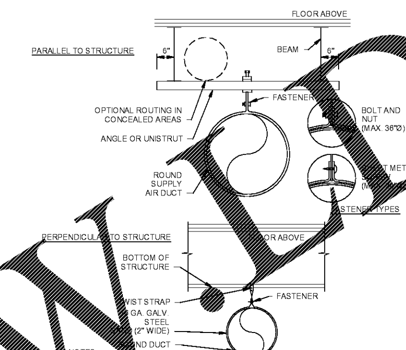
(9) REFRIGERANT PIPING DETAIL (SINGLE CIRCUIT WITH COIL ABOVE OR BELOW CU)
NTS



(7) ROOF EQUIPMENT SUPPORT RAIL DETAIL
12" = 1'-0"

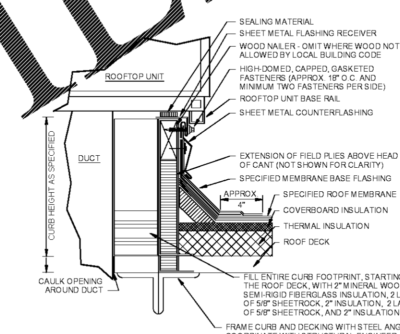


(8) ADJUSTABLE BAND PIPE HANGER
NTS



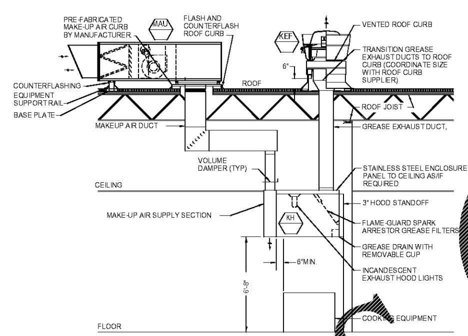
NOTES:
1. FOR DUCTS LARGER THAN 36"Ø, USE TWO HANGER RODS, WIRES OR STRAPS TO SUPPORT DUCT FROM EACH SIDE.
2. CONNECTIONS TO SLAB OR DECKING ABOVE ARE NOT PERMITTED.

(6) ROUND DUCT SUPPORT DETAIL
NTS



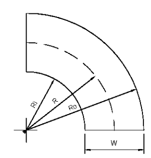
NOTES:
1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.

(5) ROOF CURB DETAIL
NTS



NOTES:
1. SUBMIT SHOP DRAWINGS OF ALL HOOD SYSTEMS TO ... FOR APPROVAL PRIOR TO INSTALLATION.
2. TOTAL HOOD SYSTEM TO BE IN COMPLETE CONFORMANCE WITH NFPA, AND ALL LOCAL CODES AND REGULATIONS.
3. COORDINATE ALL ANSUL FIRE PROTECTION SYSTEMS WITH FIRE PROTECTION CONTRACTOR WHO SHALL ALSO BE RESPONSIBLE FOR ALL PERMITS AND TESTING REQUIRED.
4. PROVIDE WRAP SYSTEMS ... APPROVED BY LOCAL CODES IN LIEU OF RATED ENCLOSURE
5. PROVIDE ACCESS PANELS AS REQUIRED BY LOCAL CODE.
6. HOODS SHALL EXTEND MINIMUM ... BEYOND ALL ... SIDES AND FRONT EDGE OF FOOD COOKING EQUIPMENT BEING SERVED.
7. CURB & ROOF OPENING EXACT DIMENSIONS SHALL BE DETERMINED BY FAN MANUFACTURER. COORDINATE WITH STRUCTURAL REQUIREMENTS.
8. MANUFACTURER SHALL MATCH ROOF SLOPE & FABRICATE CURB ACCORDINGLY SUCH THAT THE TOP OF THE CURB IS LEVEL.

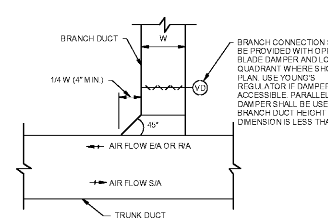
(13) KITCHEN HOOD DETAIL
NTS



W = DUCT WIDTH
R = 1.5W (MAX) [Ro = 2W, Ri = 1.0W]

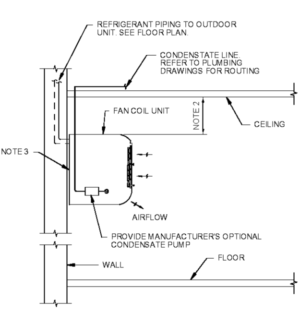
NOTE: 90° ELBOW SHOWN. IF OTHER ANGLE LESS THAN 90° IS PROVIDED USE RADIUS DIMENSIONS SHOWN ABOVE.

(12) TYPICAL GREASE EXHAUST ELBOW
NTS



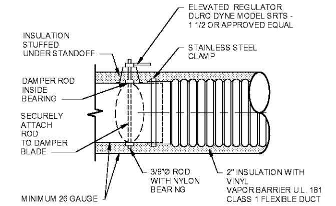
NOTES:
1. THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

(11) RECTANGULAR BRANCH TAP DETAIL
NTS



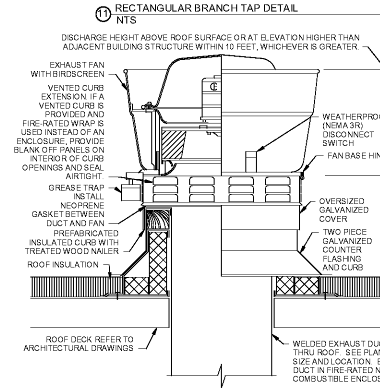
NOTES:
1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.
2. PROVIDE MINIMUM 3.5" OF CLEARANCE AT THE TOP OF THE UNIT.
3. ATTACH FAN COIL UNIT TO MANUFACTURER'S PROVIDED INSTALLATION PLATE. MOUNT INSTALLATION PLATE TO WALL PER MANUFACTURER'S RECOMMENDATIONS.

(10) VRF - FAN COIL UNIT - WALL MOUNTED
NTS

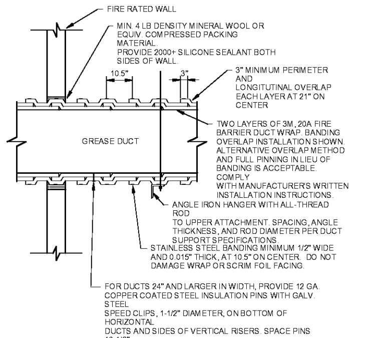


NOTES:
1. TYPICAL WHERE DAMPER IS LOCATED AT END OF RIGID ROUND DUCT AT CONNECTION TO FLEXIBLE DUCT.

(16) DAMPER AT FLEX DUCT CONNECTION DETAIL
NTS



(15) UPBLAST GREASE EXHAUST FAN DETAIL
NTS



(14) GREASE DUCT FIRE WRAP INSTALLATION INSTALLATION DETAIL
NTS

NOTE:
EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS & SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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