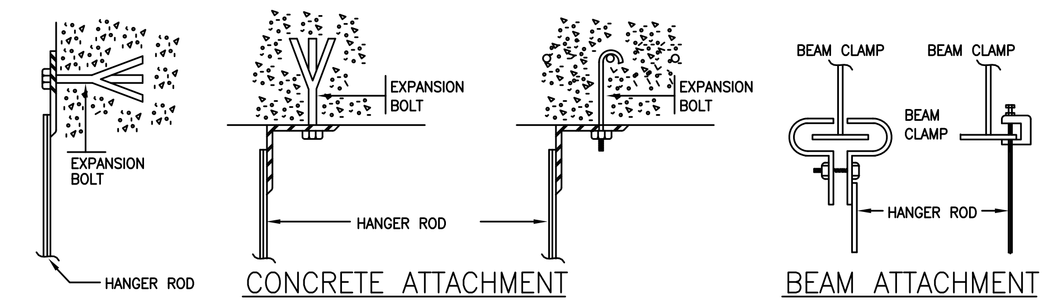
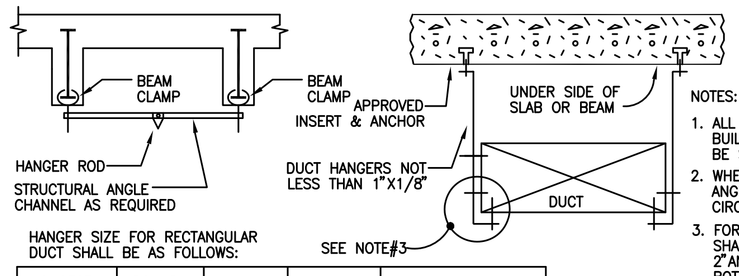


CONCRETE ATTACHMENT

BEAM ATTACHMENT

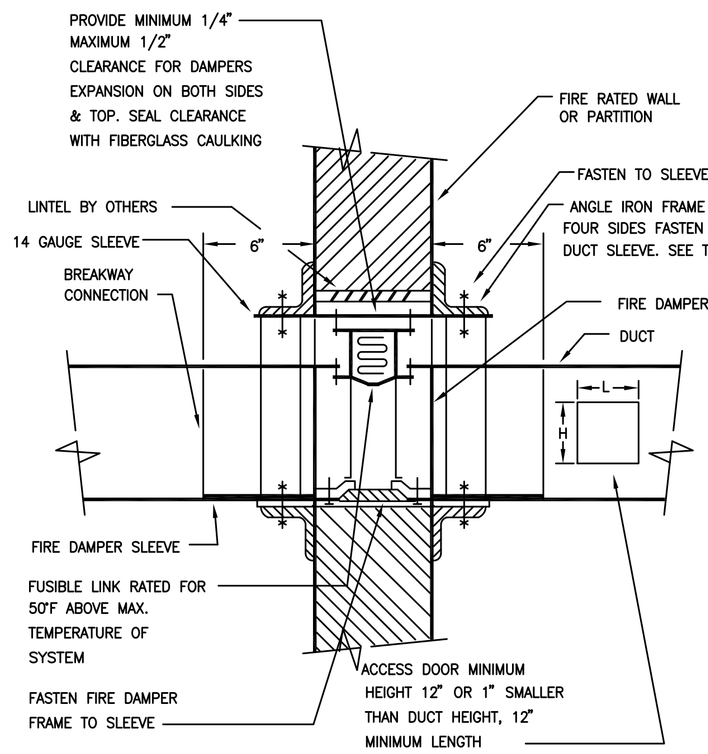


HANGER SIZE FOR RECTANGULAR DUCT SHALL BE AS FOLLOWS:

LONGEST DIMENSION OF DUCT	ROUND HANGERS	MAX SPACING SEE NOTE #4	STRAP HANGERS	TRAPEZE SHELF ANGLES
UP TO 18"	8" GA.WIRE	8'-0"	1"X1/8"	1"X1"X 1/8"
19" TO 30"	1/4" ROD	8'-0"	1"X1/8"	1"X1"X 1/8"
31" TO 42"	1/4" ROD	8'-0"	1"X1/8"GA.	1 1/2"X 1 1/2"X 1/8"

DUCT SUPPORT DETAIL

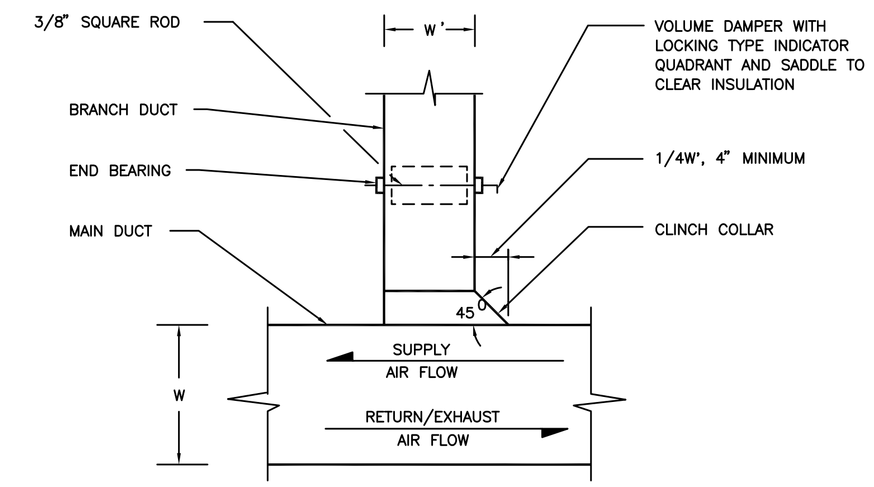
NOTES:
1. ALL DUCT TO BE HUNG FROM BUILDING CONSTRUCTION NOT TO BE SUPPORTED FROM HUNG CEILING.
2. WHEN DUCT AREA EXCEEDS 8 SQ.FT. ANGLE STIFFENERS REQUIRED AROUND CIRCUMFERENCE EVERY 4'-0.
3. FOR DUCT OVER 48"WIDE HANGERS SHALL TURN UNDER DUCT AT LEAST 2"AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF THE DUCT.
4. FOR DUCTS WITH A CROSS SECTIONAL AREA OF 4 SQ.FT. OR LESS. HANGERS SHALL BE NO MORE THAN 8FT. APART. FOR DUCTS WITH A CROSS SECTIONAL AREA OF MORE THAN 4 SQ.FT. BUT NOT OVER 8 SQ.FT. HANGERS SHALL BE NOT MORE THAN 6 FT. A PART. AND FOR DUCTS WITH A CROSS SECTIONAL AREA OF MORE THAN 8 SQ.FT. HANGERS SHALL BE NOT MORE THAN 4 FT. A PART. THE DISTANCES BETWEEN SHALL BE MEASURED LINEARLY ALONG THE DUCT.



ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 30"	1"X1"X1/8"
31"TO 54"	1-1/2"X1-1/2"X1/8"
55"TO 84"	3"X2"X3/16"
85"TO 120"	3"X2"X3/16"

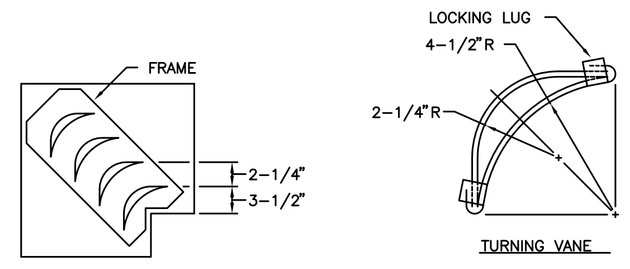
FIRE DAMPER DETAIL

GENERAL NOTES:
1. FIRE DAMPER TO BE U.L. LABELED N.F.P.A. 90A (IN N.Y.C.,B.S.A. & M.E.A. APPROVED)
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF FIRE DAMPER FOR APPROVAL, WHICH SHALL MEET N.F.P.A. STANDARD 90 A (IN N.Y.C.,B.S.A.& M.E.A. APPROVED)
3. DETAILS SHOWN ARE FOR FIRE DAMPERS IN HORIZONTAL DUCTWORK. FOR FIRE DAMPERS IN VERTICAL DUCTWORK DETAILS SIMILAR.
4. ACCESS DOOR IS SHOWN IN SIDE OF DUCT; IF FUSIBLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT RELOCATE ACCESS DOOR.
5. FIRE DAMPERS SHALL BE SPRING LOADED



NOTES
1. FURNISH THIS TYPE CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS ⊥ FOR LOW PRESSURE BRANCHES WITH LESS THAN 700 CFM AND MEDIUM PRESSURE BRANCHES WITH LESS THAN 1000 CFM.
2. NOT TO BE USED AS SUBSTITUTE FOR ELBOW

RECTANGULAR DUCT ANGULAR TAP WITH VOLUME DAMPER

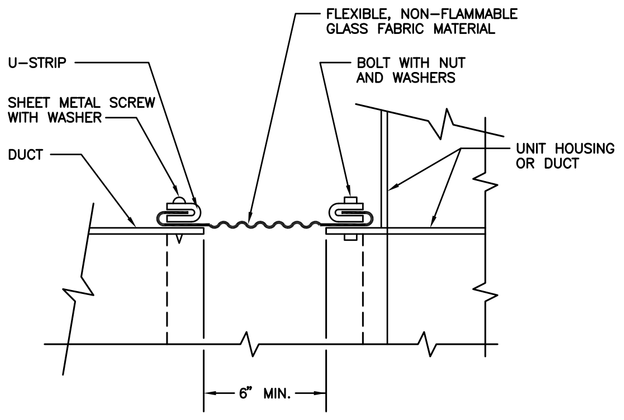


VANED ELBOW

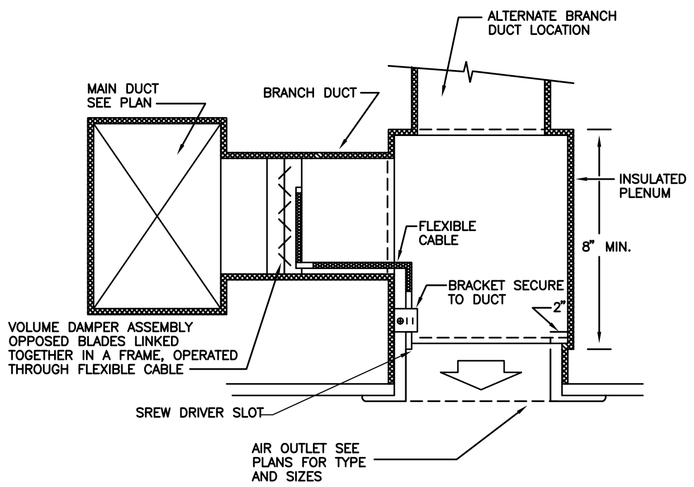
TURNING VANE

NOTES:
1. LOCKING LUGS INTEGRAL WITH VANE
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES – BOLTED OR RIVETED TO ELBOW
4. VANES AND FRAMES – SAME GAUGE AS ELBOW

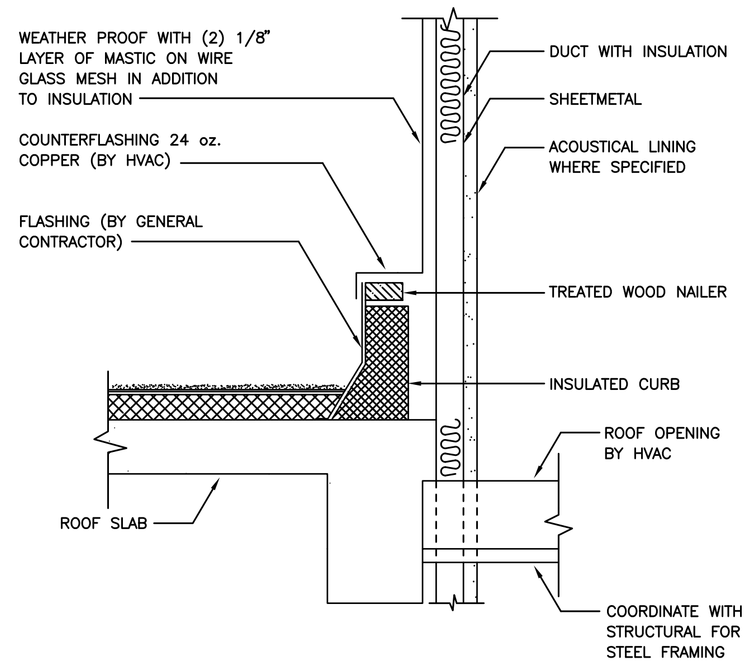
DOUBLE THICKNESS TURNING VANES FOR SQUARE ELBOW



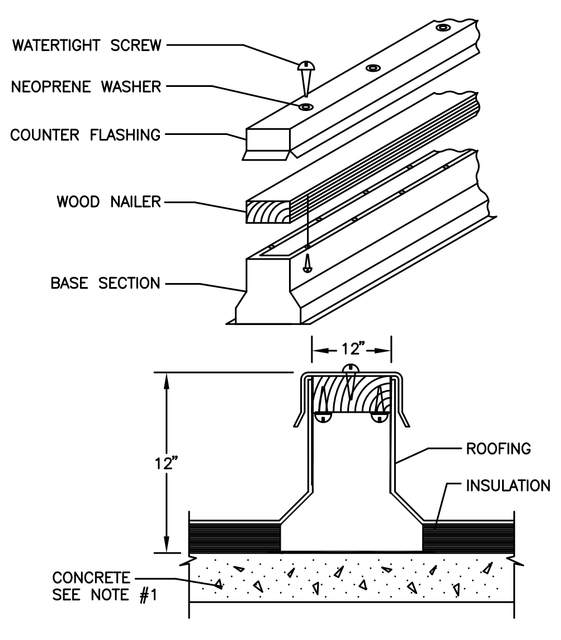
FLEXIBLE CONNECTION
NOT TO SCALE



CORD OPERATED DAMPER DETAIL
NOT TO SCALE

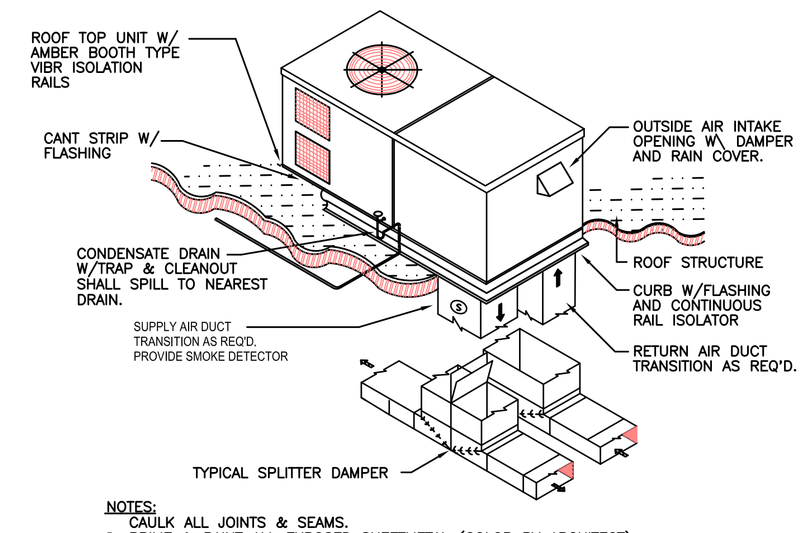


DUCT PENETRATION THROUGH ROOF
NOT TO SCALE



NOTE:
1. FOR METAL DECK ROOF CONSTRUCTION PROVIDE STEEL SUPPORT UNDER ROOF CURB.

ROOF CURB DETAIL
NOT TO SCALE



NOTES:
1. CAULK ALL JOINTS & SEAMS.
2. PRIME & PAINT ALL EXPOSED SHEETMETAL (COLOR BY ARCHITECT).
3. FURNISH AND INSTALL PROPER CURB AND FLASHING AS REQUIRED. PROVIDE LAG BOLTS TO CURB THRU A/C UNIT TO WITHSTAND HURRICANE FORCE WINDS.
4. SUPPLY AND RETURN DUCT TRANSITIONS AS REQUIRED.

ROOF TOP UNIT DETAIL
N.T.S.

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Arlington, Virginia 22201

CLIENT:
Crumbs Bakeshop
110 West 40th Street
Suite 310
New York, New York 10018

ISSUES:

No.	Date	Description
1	06.14.10	ISSUED FOR REVIEW
1	06.23.10	ISSUED FOR BID

SEAL:

DRAWN BY: RT

SCALE: As Noted

DRAWING TITLE: HVAC Details

DRAWING NO.
M-301.00

SHEET 3 OF 4