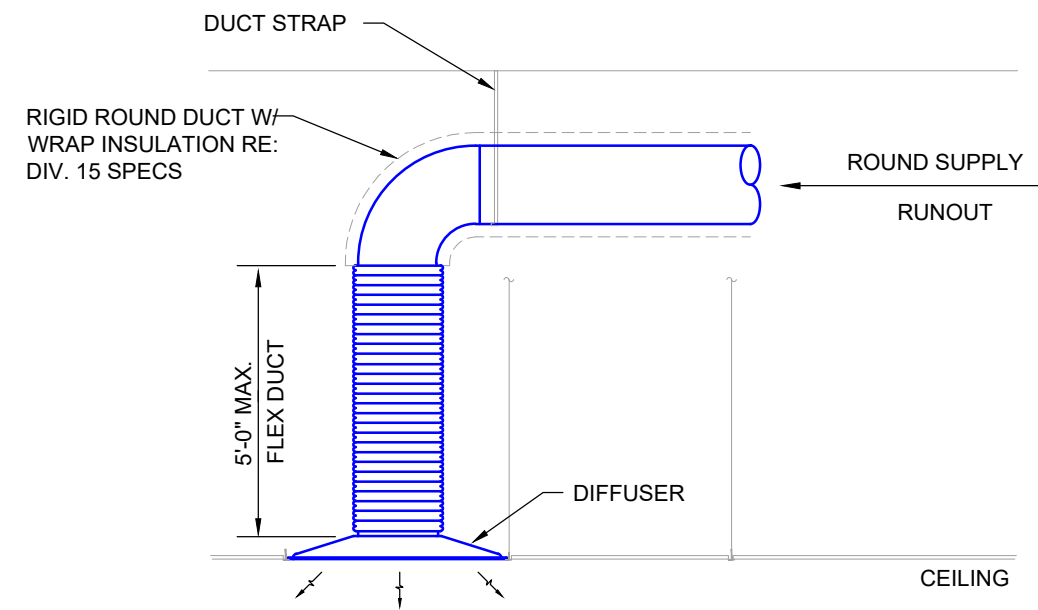
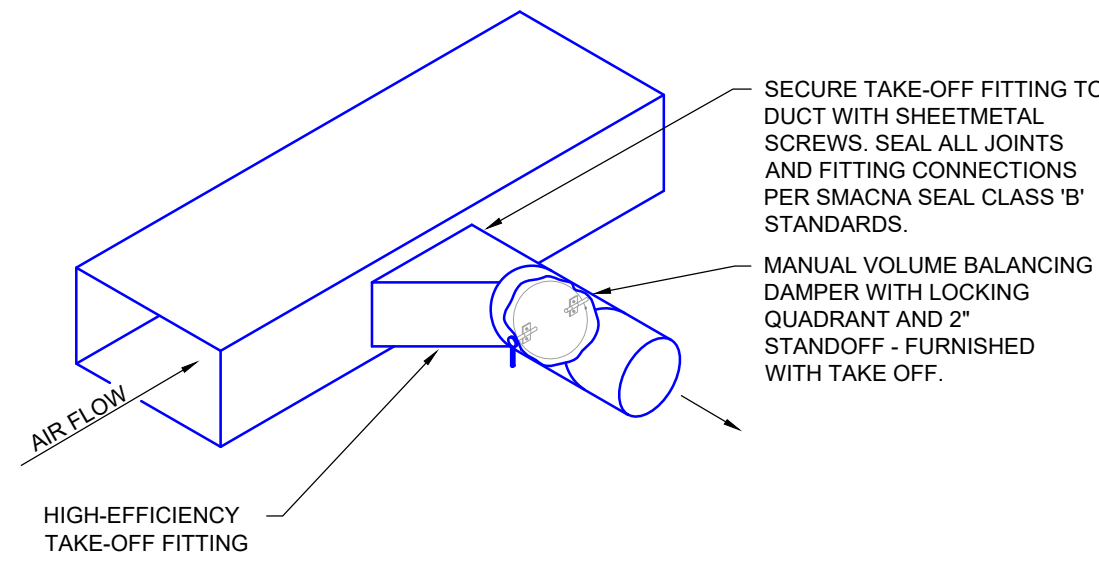


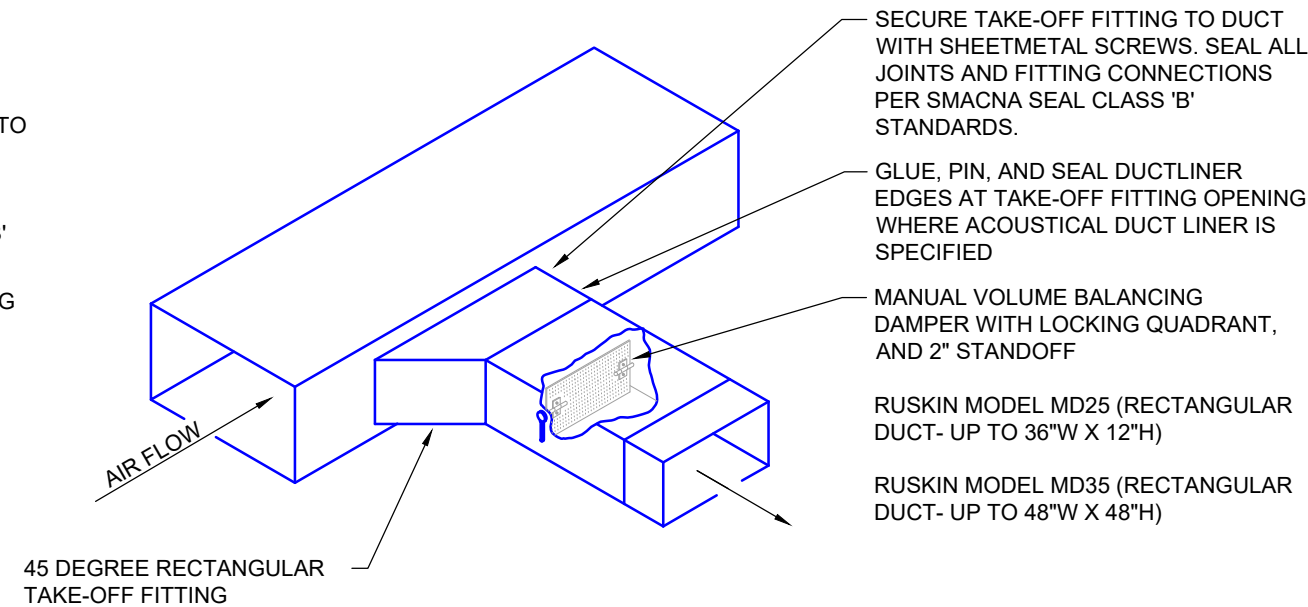


- NOTES:
1. USE IN VERTICAL ARRANGEMENT WHERE POSSIBLE. IF BENDING IS NECESSARY, SUPPORT FLEX DUCT TO MAXIMIZE BEND RADIUS. - 90 DEGREE TURNS ARE NOT ALLOWED.
 2. PROVIDE AIRTIGHT CONNECTIONS TO RIGID ROUND DUCT AND AIR DEVICE.
 3. SEE SPECIFICATIONS FOR FLEX DUCT RESTRICTIONS.

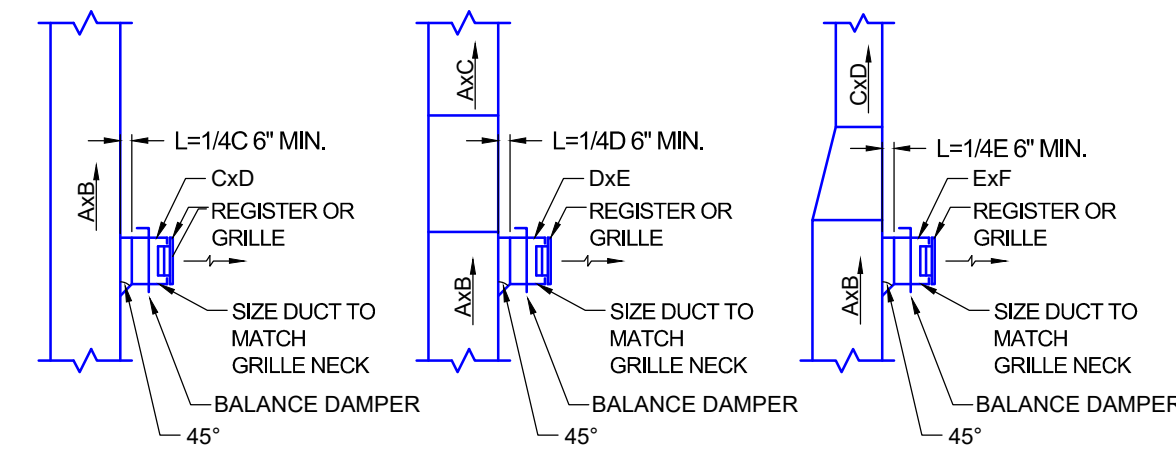
FLEXIBLE DUCT DETAIL
SCALE: NTS



ROUND DUCT TAKE-OFF DETAIL
SCALE: NTS

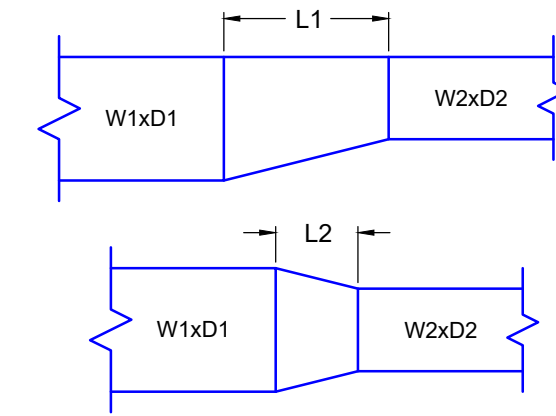


RECTANGULAR DUCT TAKE-OFF
SCALE: NTS



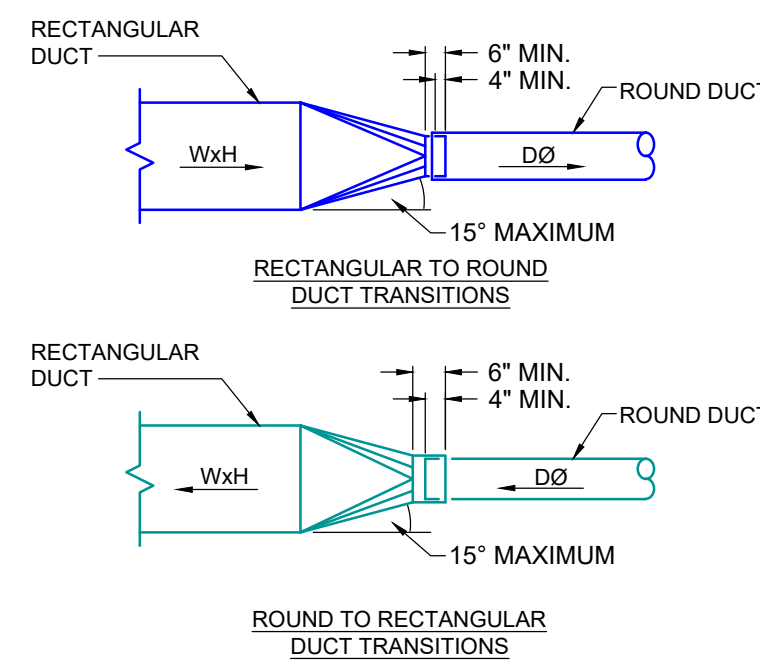
- NOTES:
1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
 2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM, OR CONCENTRIC.
 3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
 4. TAP HEIGHT DIMENSION SHOULD BE 2 INCHES SMALLER THAN MAIN DUCT HEIGHT.
 5. SIDE TAPS SHOWN, BOTTOM TAPS SIMILAR.

GRILLE/REGISTER TAPS FOR EXPOSED RECT. DUCTWORK DETAIL
SCALE: NTS



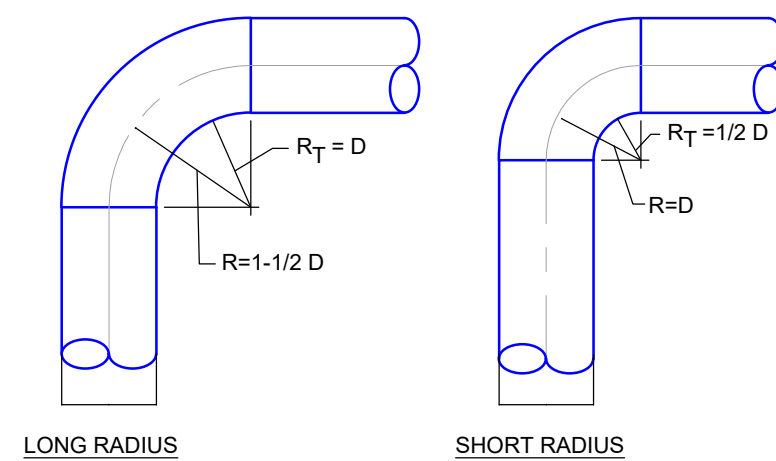
- NOTES:
1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
 2. $L1 = 4 \times \text{DELTA } W$ ($W1-W2$) OR $4 \times \text{DELTA } D$ ($D1-D2$) WHICHEVER IS GREATER.
 3. $L2 = 2 \times \text{DELTA } W$ ($W1-W2$) OR $2 \times \text{DELTA } D$ ($D1-D2$) WHICHEVER IS GREATER.

RECT. DUCT TRANSITIONS DETAIL
SCALE: NTS



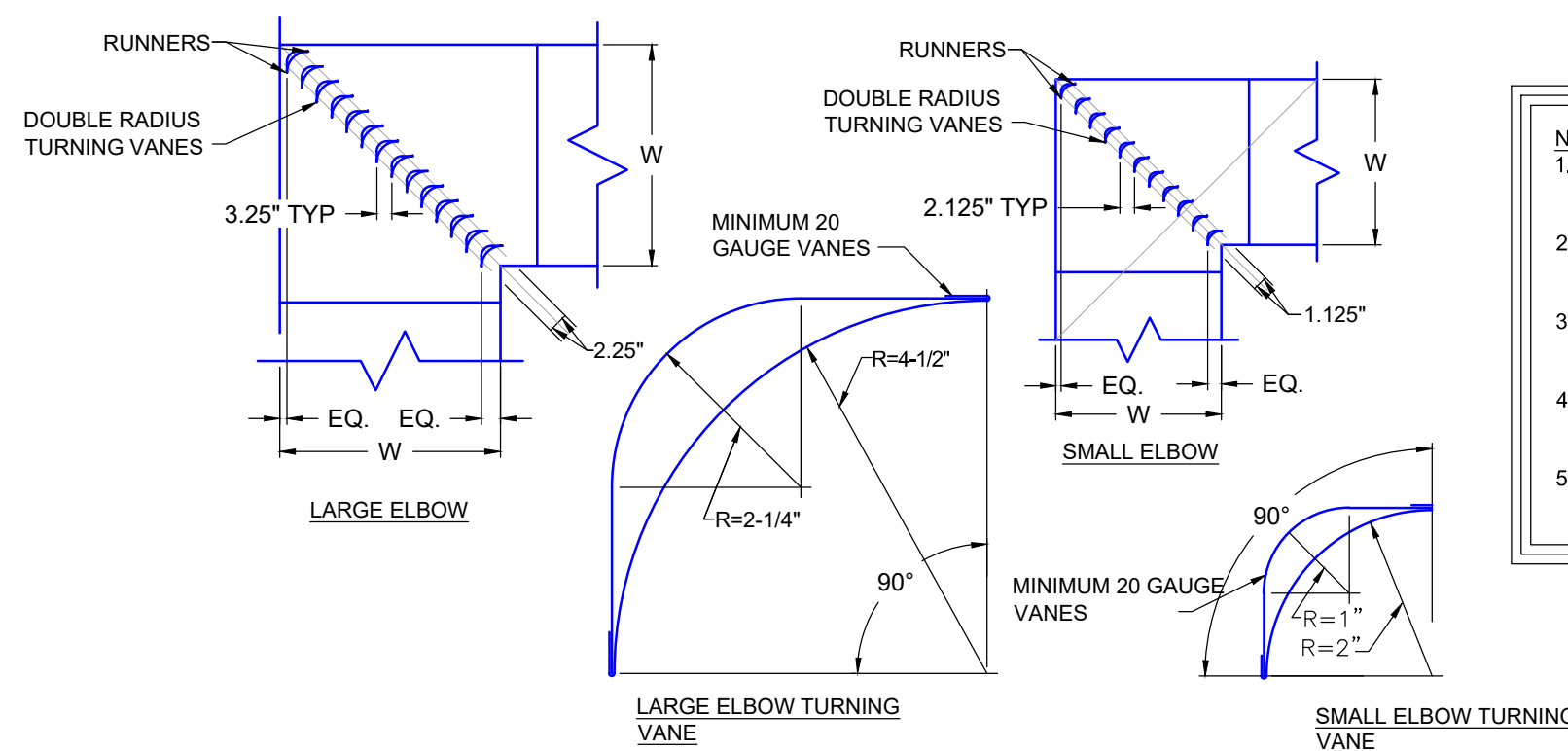
- NOTES:
1. DIMENSIONS W, H, AND D AS INDICATED ON THE DRAWINGS.

ROUND/RECTANGULAR DUCT TRANSITIONS DETAIL
SCALE: NTS



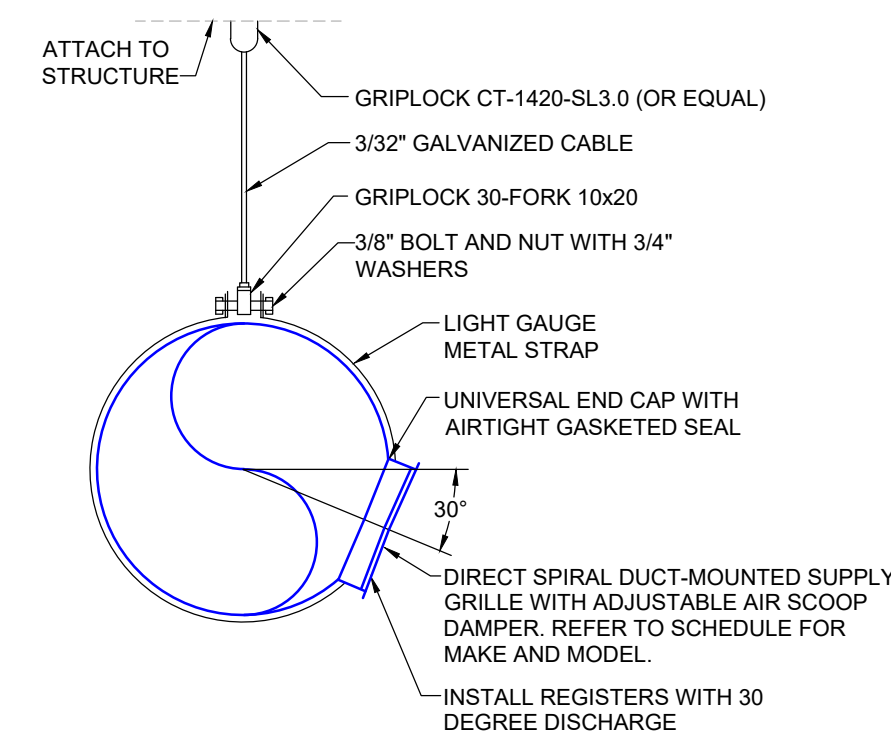
- NOTES:
1. DIMENSION D AS SHOWN ON THE DRAWINGS.
 2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE EVER POSSIBLE OR UNLESS OTHERWISE INDICATED.
 3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

DUCTWORK - ROUND ELBOW DETAIL
SCALE: NTS

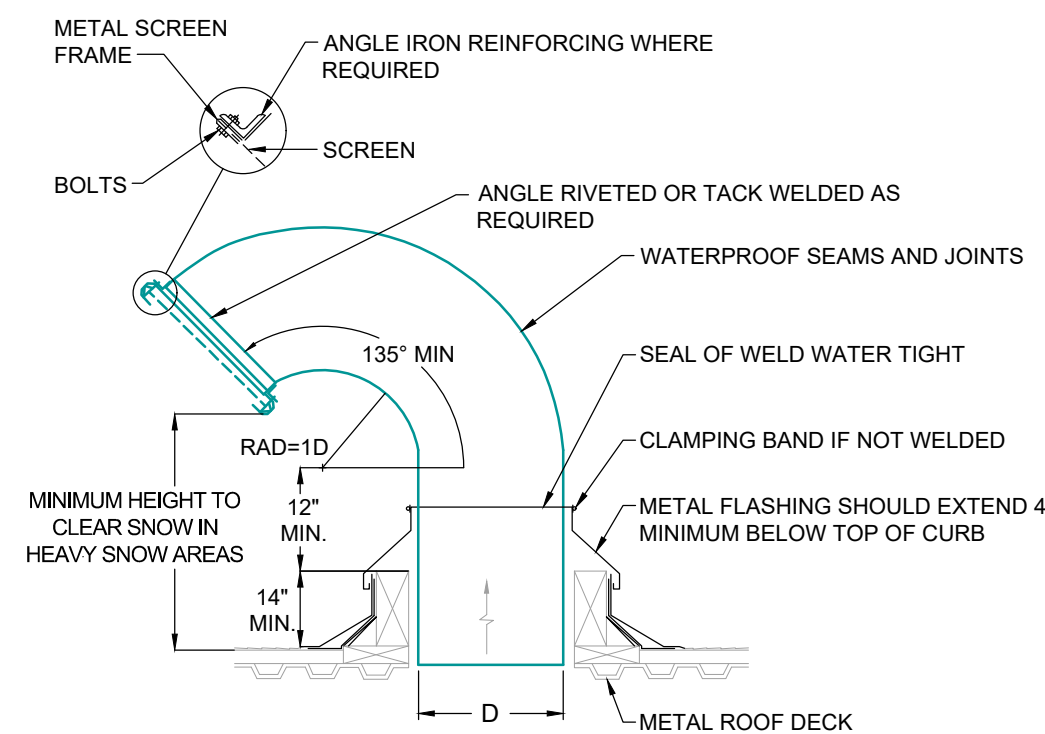


- NOTES:
1. FOR DUCT SIZES WHERE W IS 24 INCHES AND SMALLER, USE SMALL ELBOW DETAIL.
 2. FOR DUCT SIZES WHERE W IS LARGER THAN 24 INCHES, USE LARGE ELBOW DETAIL.
 3. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
 4. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
 5. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60 INCHES.

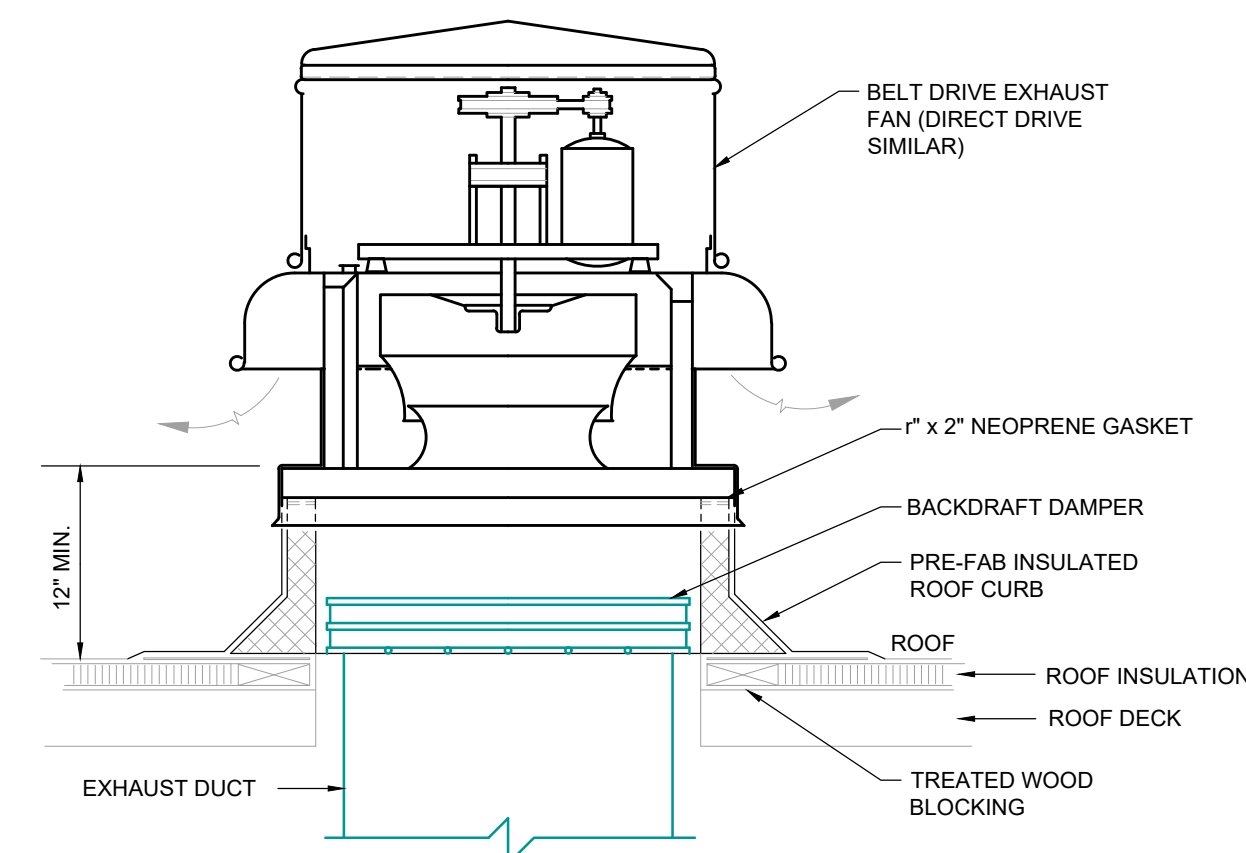
90° SQUARE / RECTANGULAR ELBOW DETAIL
SCALE: NTS



EXPOSED SPIRAL DUCTWORK DETAIL
SCALE: NTS



FLAT ROOF GOOSENECK EXHAUST TERMINATION DETAIL
SCALE: NTS



- NOTES:
1. EXACT DIMENSIONS OF CURB & ROOF SHALL BE DETERMINED BY FAN MFR. COORDINATE WITH STRUCTURAL REQUIREMENTS.
 2. MOUNT TOP OF CURB LEVEL. VERIFY ROOF SLOPE & FABRICATE CURB ACCORDINGLY.

CENTRIFUGAL TYPE ROOF EXHAUST FAN DETAIL
SCALE: NTS