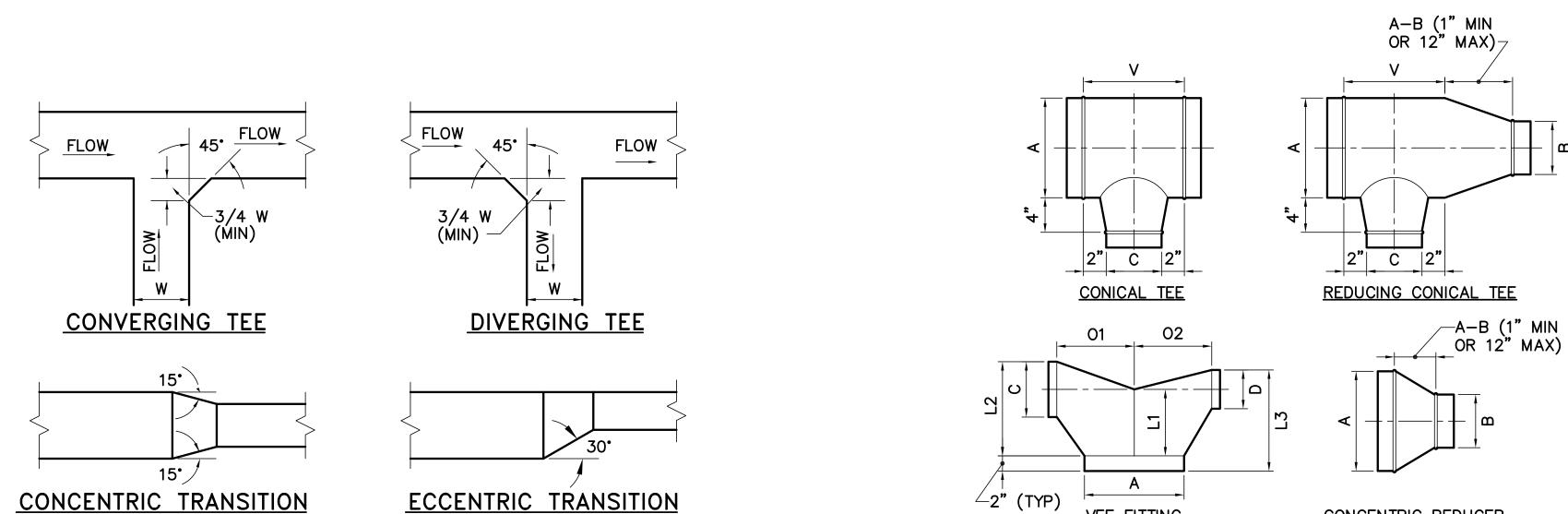


RNC KLG MSA

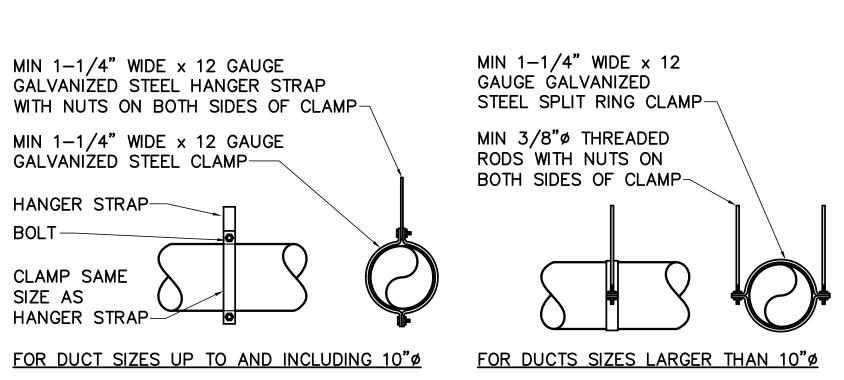
MECHANICAL DETAILS 1

SCALE: AS NOTED **DATE:** 05-24-16

DWG. M-501



1 RECTANGULAR DUCT TRANSITIONS DETAIL M-501 NOT TO SCALE



5 ROUND DUCT HANGER DETAIL
M-501 NOT TO SCALE

MIN 1-1/4" WIDE x 12 GAUGE

MIN 1-1/4" WIDE x 12 GAUGE

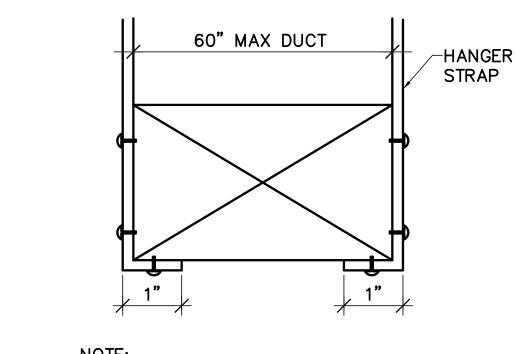
GALVANIZED STEEL CLAMP-

HANGER STRAP-

CLAMP SAME

SIZE AS

GALVANÍZED STEEL HANGER STRAP



M-501 NOT TO SCALE

2 TYPICAL ROUND DUCT FITTINGS DETAIL

CONCENTRIC REDUCER

SIZE AND RATING OF HANGERS AND SUPPORTS SHALL BE PER LATEST SMACNA STANDARDS.

6 DUCT SUPPORT ATTACHMENTS DETAIL

COIL PIPING SCHEMATIC, SEE

LSUPPLY FAN

ISOLATORS

MOUNTED ON

SPRING VIBRATION

CHWS & CHWR PIPING FOR

TOP DISCHARGE-

MOUNTED AND

WIRED SUPPLY

FAN VARIABLE

FREQUENCY

INSULATED

CASING —

MOUNTING

FRAME -

DOUBLE WALL

6" CONTINUOUS

-DUCT TRANSITION

TO SIZE OF VAV

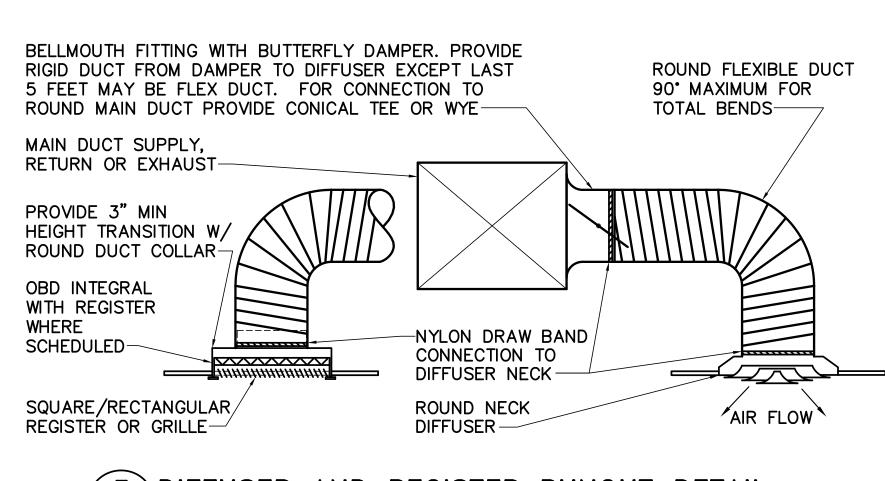
BOX COLLAR

MANUAL

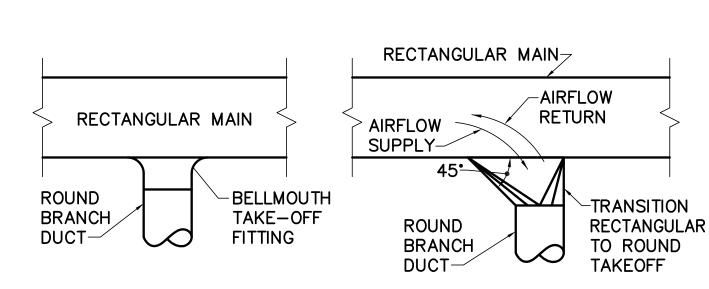
AIR VENT

DRIVE -

FACTORY

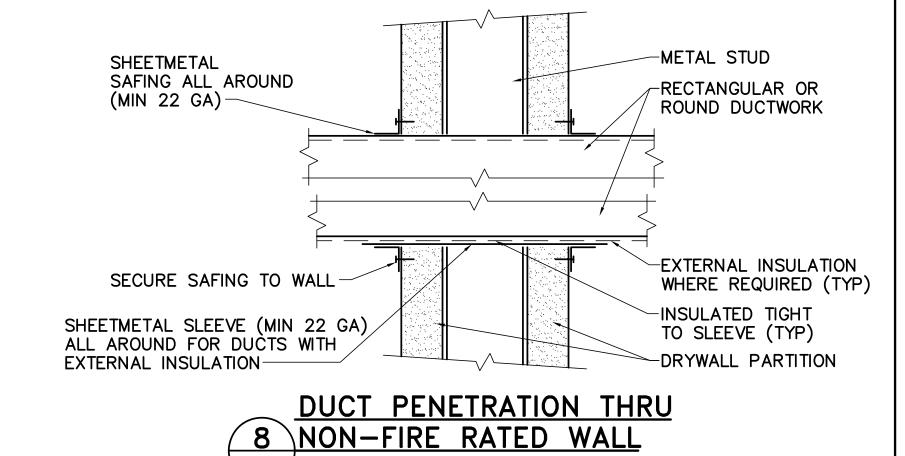


3 DIFFUSER AND REGISTER RUNOUT DETAIL M-501 NOT TO SCALE



1. SPIN-IN TYPE STRAIGHT TAKE-OFF FITTINGS SHALL NOT BE PERMITTED.

TYPICAL ROUND BRANCH DUCT 7 CONNECTIONS TO RECTANGULAR MAIN M-501 NOT TO SCALE



RECYCLED RUBBER - WHICH SIT

ON EXISTING ROOF SURFACE

W-501 NOT TO SCALE CUT FRAME MEMBERS TO PROVIDE 1/2" OR LESS GAP BETWEEN INSULATION AND FRAME MEMBERS--TYPICAL OPENING FOR DUCT. FOR INSULATION REQUIREMENTS REFER TO A2 -PROVIDE ZINC-PLATED ANGLES, BOLTS AND NUTS FOR ATTACHMENT HEIGHT TO SUIT HARDWARE (TYP) INSTALLATION -GALVANIZED, SLOTTED BUT NOT MORE STEEL STRUCTURAL FRAME THAN 36"____ SUPPORTS CUT TO SUIT INSTALLATION PRE-MANUFACTURED SUPPORT SIDE BY SIDE DUCT INSTALLATION SHOWN. BASE - THERMO PLASTIC OR

PROVIDE SIMILAR FOR SINGLE DUCT LOCATIONS.

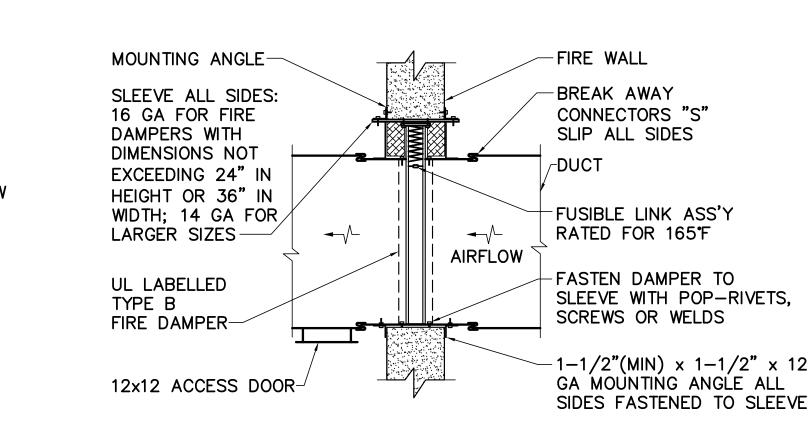
W-501 NOT TO SCALE

1-1/2"(MIN) x 1-1/2" x 12

GA MOUNTING ANGLE ALL

SIDES FASTENED TO SLEEVE

10 AHU-3 AIR HANDLING UNIT DIAGRAM M-501 NOT TO SCALE



1-1/2" x 1-1/2" x 12 GA MOUNTING ANGLE; ALL SIDES FASTENED TO SLEEVE -FIRE WALL SLEEVE ALL SIDES: 16 GA FOR FIRE BREAK AWAY CONNECTORS "S" DAMPERS WITH SLIP ALL SIDES **DIMENSIONS NOT** EXCEEDING 24" IN HEIGHT OR 36" IN WIDTH; 14 GA FOR LARGER SIZES--FUSIBLE LINK ASS'Y RATED FOR 165°F REMOVE REGISTER AIRFLOW TO ACCESS DAMPER-FASTEN DAMPER TO SIDEWALL REGISTER SLEEVE W/ 1/4" BOLTS OR GRILLE-OR 1/2" WELDS IN MTG HOLE'S AS PROVIDED UL LABELLED TYPE A FIRE DAMPER

1. FOR HORIZONTAL FLOOR INSTALLATION PROVIDE FIRE DAMPER WITH SPRING LOADED DAMPER BLADES.

2. FASTEN ANGLES TO SLEEVE WITH POP-RIVETS, SCREWS OR WELDS AT 8-INCH ON CENTER, MINIMUM 2 PER SIDE, 4 SIDES OF OPENING ON BOTH SIDES OF DAMPER.

3. PROVIDE CLEARANCE BETWEEN DAMPER SLEEVE OR DAMPER AND THE FIRE-RATED WALL, PARTITION OR FLOOR IN ACCORDANCE WITH THE FIRE DAMPER MANUFACTURER. IF REQUIRED BY THE DAMPER MANUFACTURER, PROVIDE FIRESTOPPING IN THIS SPACE ON ALL SIDES TO MAINTAIN FIRE RATING.

4. USE FOR GALVANIZED SHEET METAL DUCT ONLY.

-CHILLED WATER COOLING COIL

-HWS & HWR PIPING FOR COIL

PIPING SCHEMATIC, SEE

-PARALLEL BLADE

RETURN AIR DAMPER

MEASURING STATION

-MINIMUM MERV 13

CARTRIDGE FILTER

MINIMUM MERV 8

PRE FILTER

→ \/
\text{OUTSIDE AIR}

-OUTSIDE AIR INTAKE DAMPER

WITH INTEGRAL AIR FLOW

W/ INSULATED DRAIN PAN

-COIL ACCESS SECTION

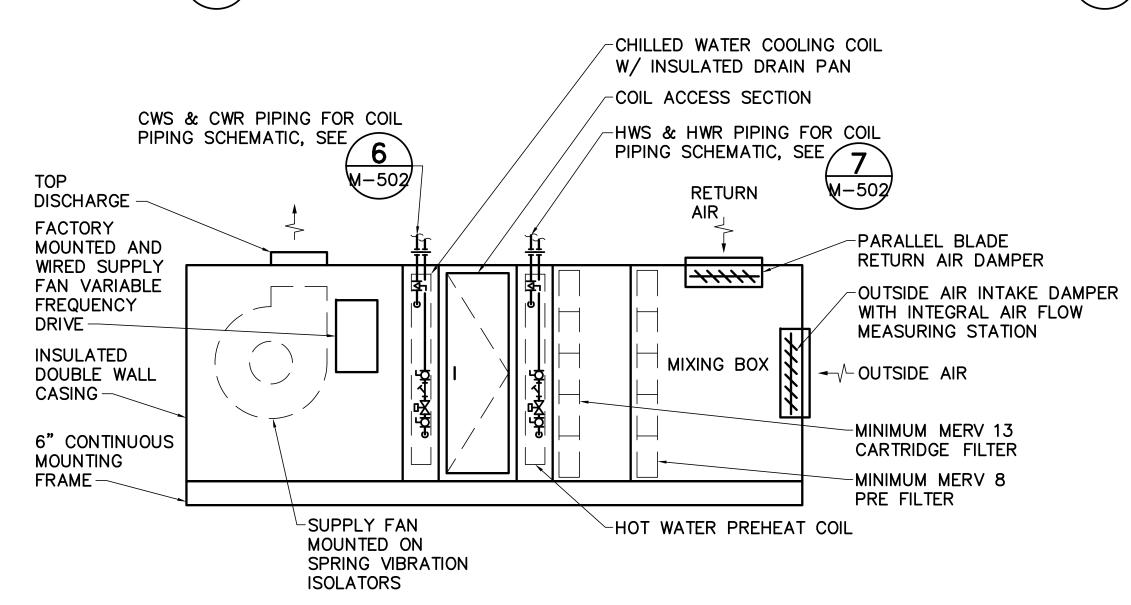
RETURN

++++

MIXING BOX

HOT WATER PREHEAT COIL

13 FIRE DAMPER DETAIL M-501 NOT TO SCALE



9 AHU-1 & AHU-2 AIR HANDLING UNIT DIAGRAM

SPIRAL DUCT -SEAL DOVETAIL ON INSIDE OF DUCT ONLY W/ EC800 OR APPROVED EQUAL DUCT SEALANT -DOVETAIL SHEET METAL SCREW OR POP -COLLAR RIVETS 6 PER LONG SIDE, 2 PER SHORT -ROUND SPIRAL SHORT SIDE-DUCT SEE PLANS FOR SIZE REFER TO -GRILLE DRAWING KEYNOTES FOR ANGLE FROM - DOVETAIL HORIZONTAL-CONNECTION MIN_{7} ALL SIDES _" FLANGE -26 GAUGE GALV TYP ALL SIDES STEEL COLLAR. LENGTH TO SUIT LOUVER

> TYPICAL DUCT MOUNTED 12 REGISTER DETAIL M-501/NOT TO SCALE

DUCT-**-UNION** DISCHARGE DUCT FLOW **BELLMOUTH** PROVIDE STRAIGHT FITTING (OR LENGTH OF DUCT CONICAL TEE AS RECOMMENDED FITTING TO BY VAV BOX ROUND DUCT)-MANUFACTURER -2-WAY MODULATING CALIBRATED CONTROL VALVE VALVE WITH [∟]STRAINER POSITIVE HWS SHUT-OFF-BALL VALVE

1. SUPPORT PIPE INDEPENDENTLY FROM COIL.

2. SUPPORT DUCT INDEPENDENTLY FROM COIL.

INTEGRAL HOT

VALVE WATER REHEAT COIL

3. PIPING BRANCH RUNOUTS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

4. HEIGHT OF BRANCH TAKE OFF SHALL BE MINIMUM 2" LESS THAN HEIGHT OF MAIN DUCT. SUBSTITUTE RECTANGULAR TO ROUND TRANSITION IN LIEU OF BELLMOUTH FITTING WHERE NECESSARY.

13 TYPICAL VAV BOX INSTALLATION DIAGRAM MP102,MP103 M-501 NOT TO SCALE

24 May, 2016 - 7:40pm :\dfile\21502.10-M501.dwg **SHEET: 136** OF **169**

<u> 11 ROOF MOUNTED DUCT SUPPORT DETAIL</u>