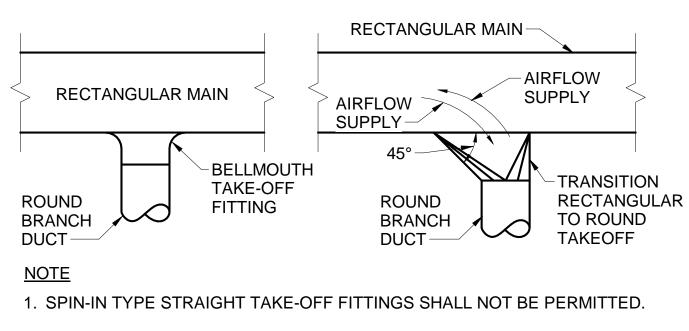
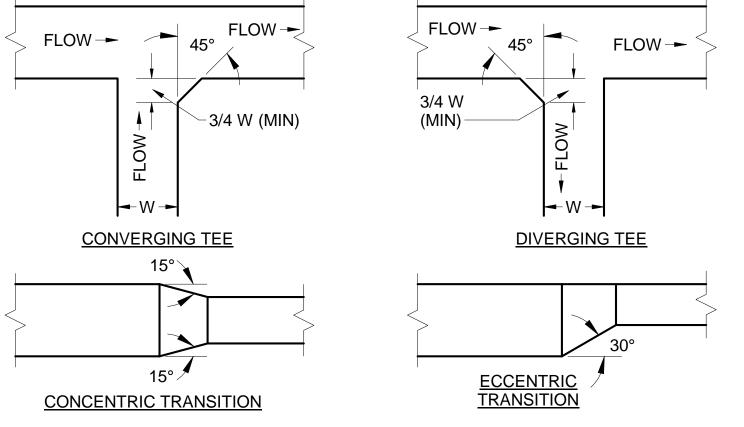


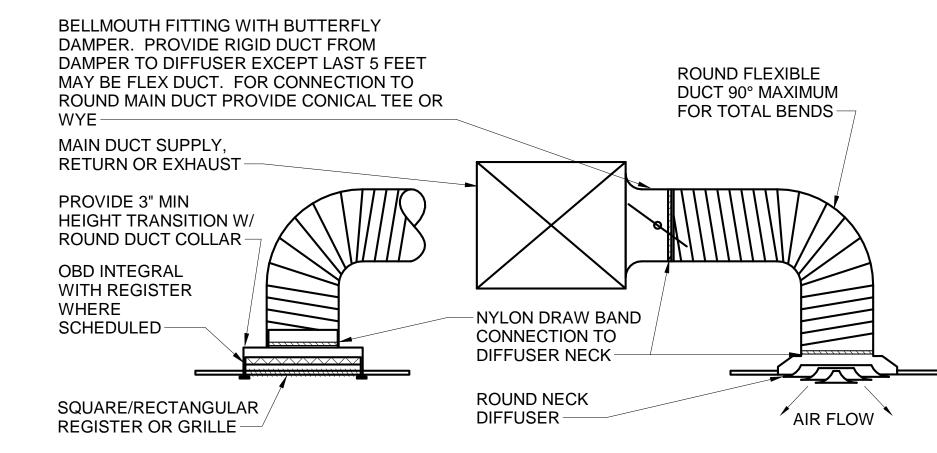
1 TYPICAL ROUND DUCT FITTINGS DETAIL M-501 SCALE: N.T.S.



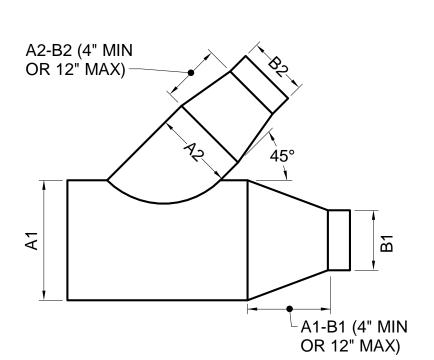




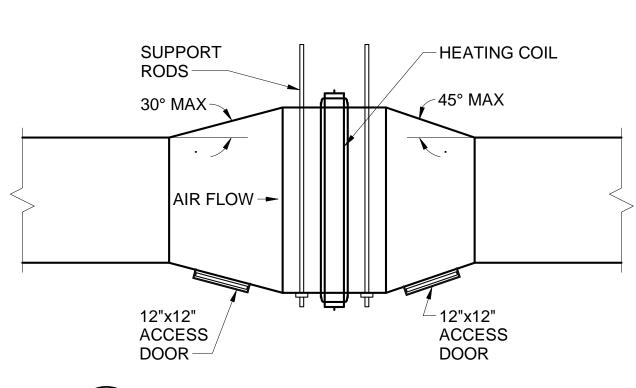
3 RECTANGULAR DUCT TRANSITIONS DETAIL M-501/SCALE: N.T.S.



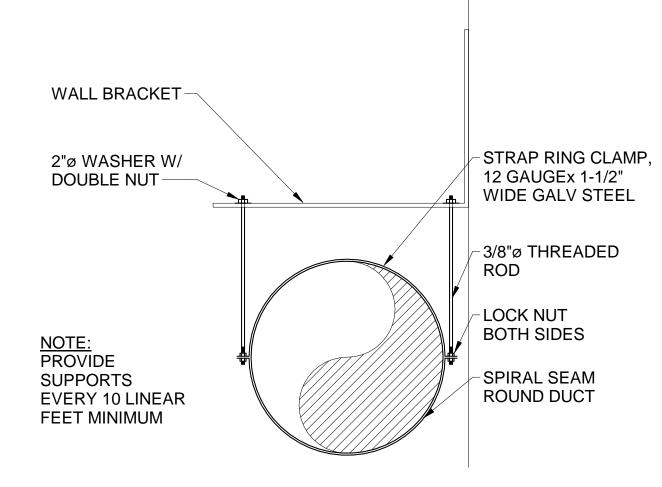
4 DIFFUSER AND REGISTER RUNOUT DETAIL M-501 SCALE: N.T.S.



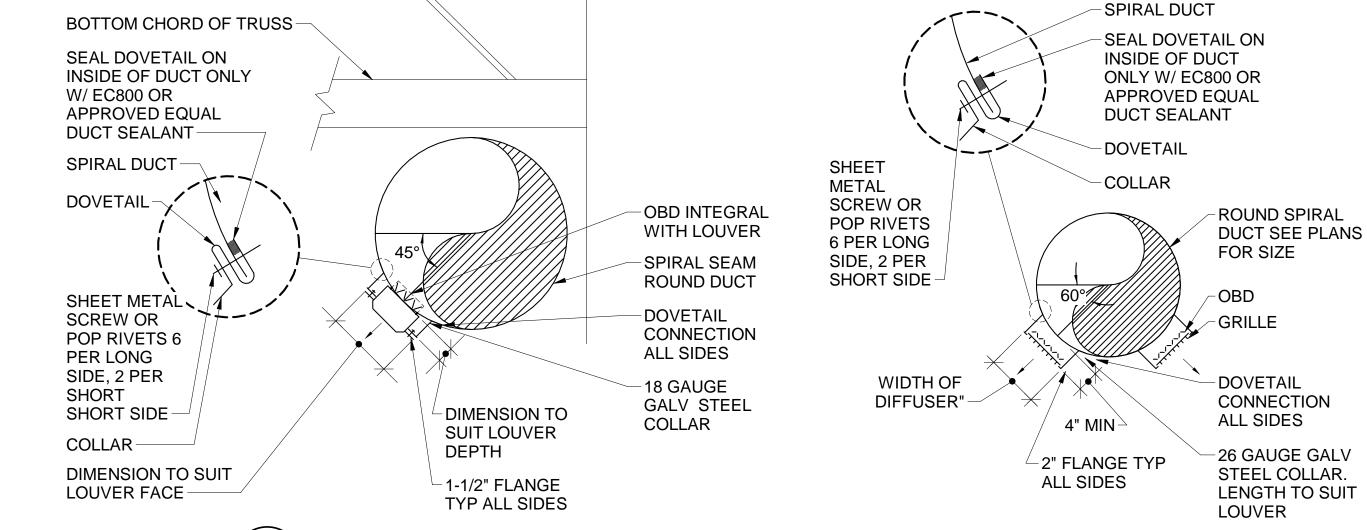
5 \ROUND DUCT-CONICAL REDUCING LATERAL M-501 SCALE: N.T.S.



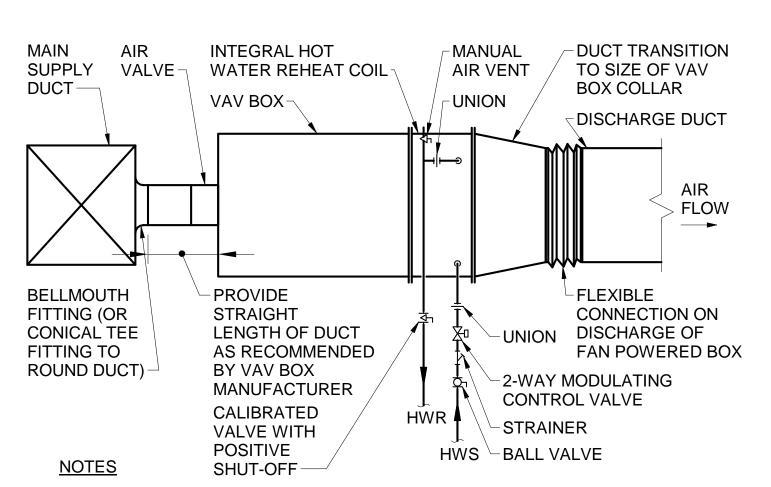
6 NOTE TO SELECT THE TOTAL OF THE TO M-501 SCALE: N.T.S.



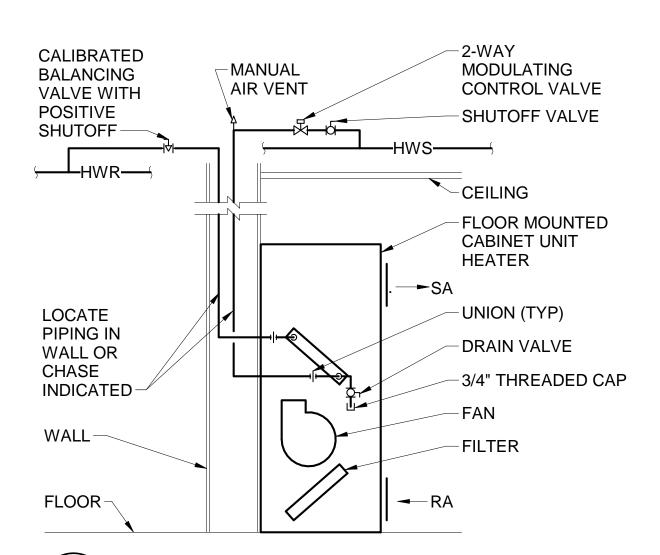
EXPOSED SPIRAL DUCT SECTION M-501/SCALE: N.T.S.



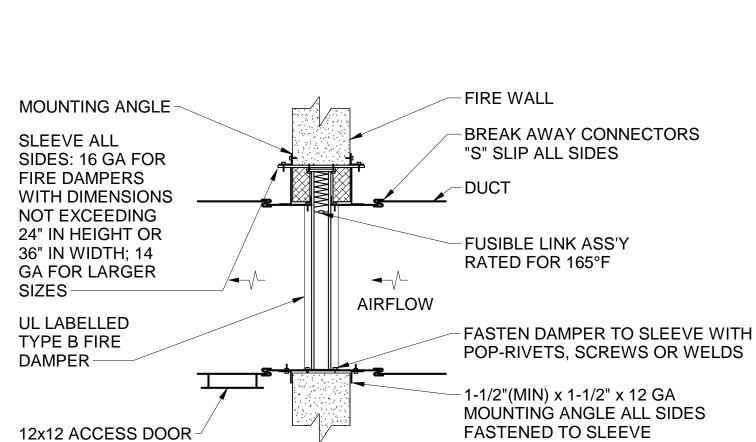
8 DRUM SLOT LOUVER SECTION/TYPICAL DUCT MOUNTED REGISTER DETAIL M-501/SCALE: N.T.S.



- 1. SUPPORT PIPE INDEPENDENTLY FROM COIL.
- 2. SUPPORT DUCT INDEPENDENTLY FROM COIL
- PIPING BRANCH RUNOUTS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- 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
- 9 TYPICAL VAV BOX INSTALLATION DIAGRAM M-501 SCALE: N.T.S.



12 CABINET HEATER PIPING SCHEMATIC M-501 SCALE: N.T.S.



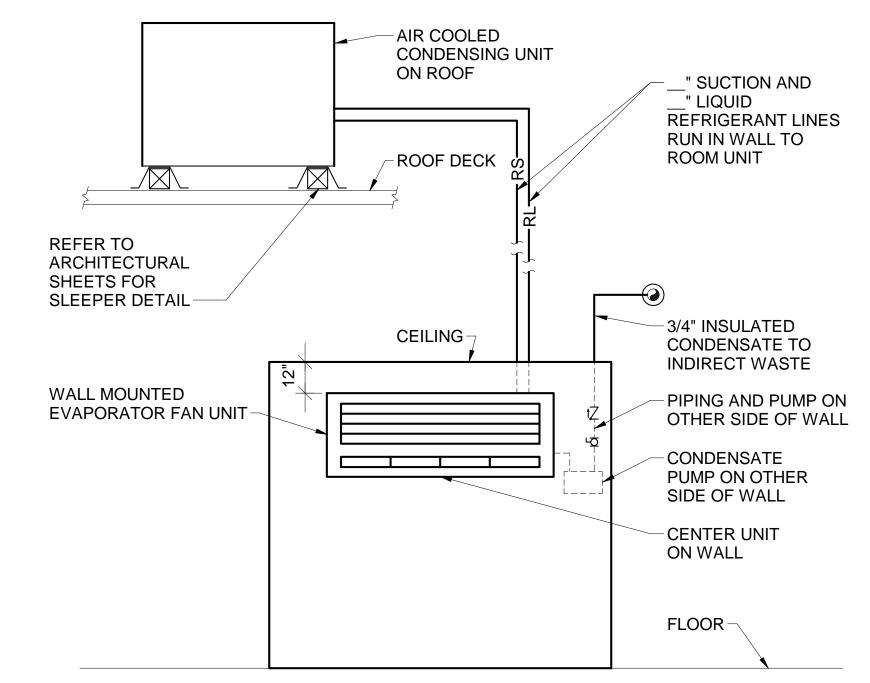
FASTENED TO SLEEVE

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

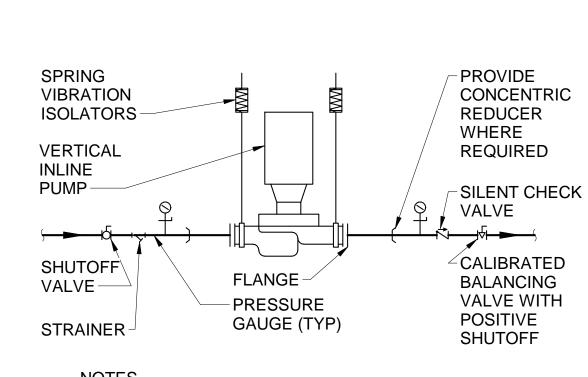
NOTES

- 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.

10 FIRE DAMPER DETAIL M-501 SCALE: N.T.S.



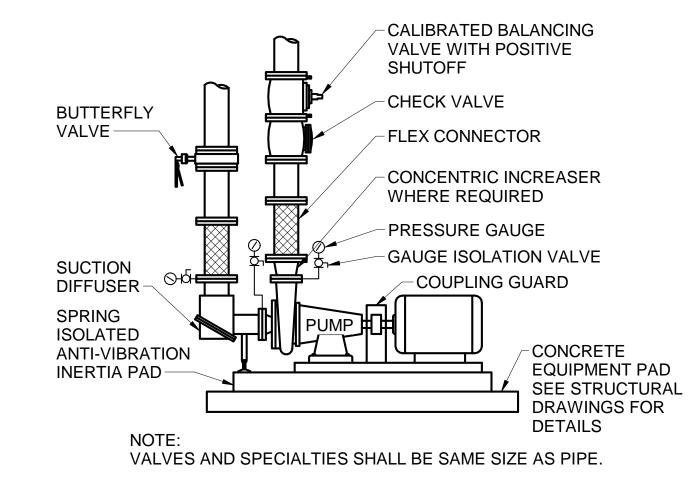
11 DUCTLESS SPLIT SYSTEM ELEVATION M-501 SCALE: N.T.S.



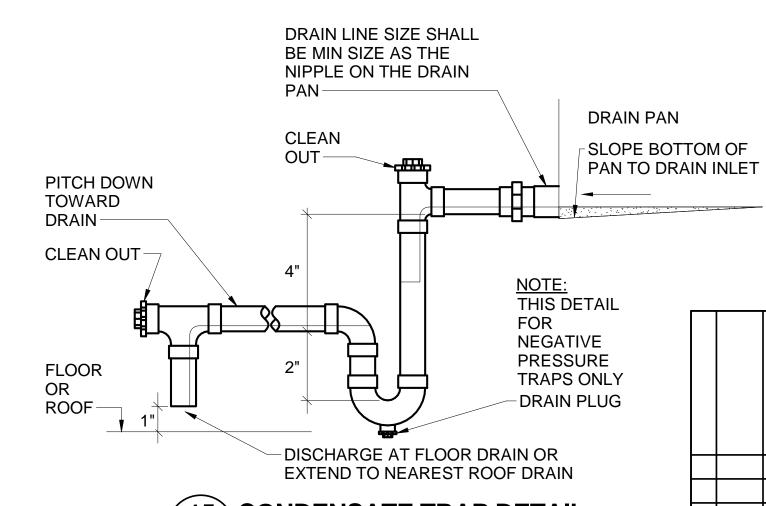
NOTES 1. VALVES SHALL BE SAME SIZE AS PIPE.

∕ 13 \INLINE PUMP PIPING DETAIL M-501 SCALE: N.T.S.

2. PROVIDE SPRING VIBRATION ISOLATORS FOR PUMP.



14\SEPARATELY COUPLED END SUCTION PUMP DETAIL M-501 SCALE: N.T.S.



STATE OF MAINE PUBLIC SCHOOL PROJECT PORTLAND PUBLIC SCHOOLS CHATTHEW S. NEW FRED P. HALL ELEMENTARY SCHOOL ATION 23 ORONO ROAD, PORTLAND, ME No. 9235 **MECHANICAL DETAILS 1**

OAK POINT DAM M-501 15 CONDENSATE TRAP DETAIL RAWN BY: KIG M-501 | SCALE: N.T.S. CHECK BY: MSA NO. DATE SHEET NO. DESCRIPTION PLANNING 207.283.0193 247 OF 312 **REVISIONS** DATE 03/17/17 231 Main Street, Biddeford, Maine 04005