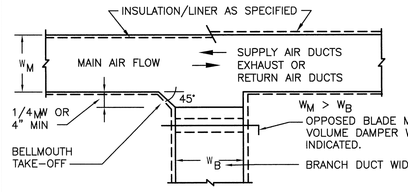
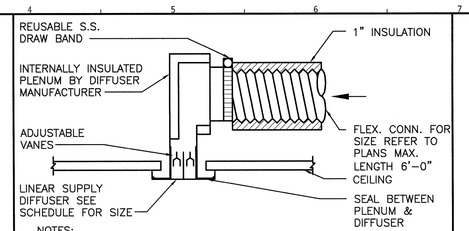
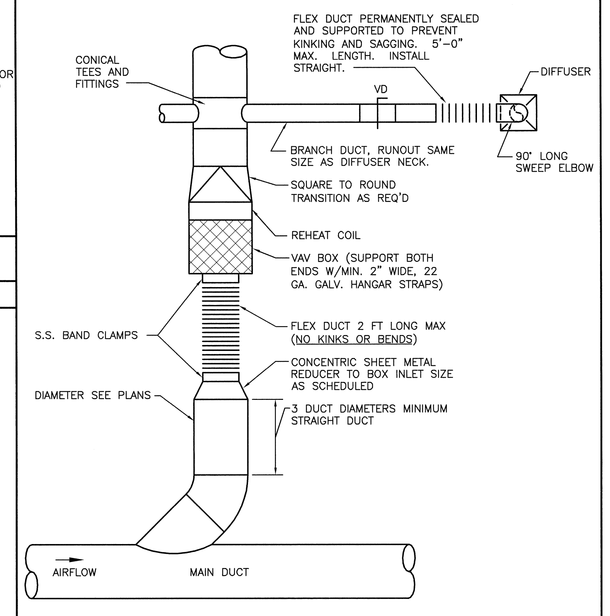


P1	RECTANGULAR DUCT MAIN & BRANCH TAKE OFFS
NOT TO SCALE	

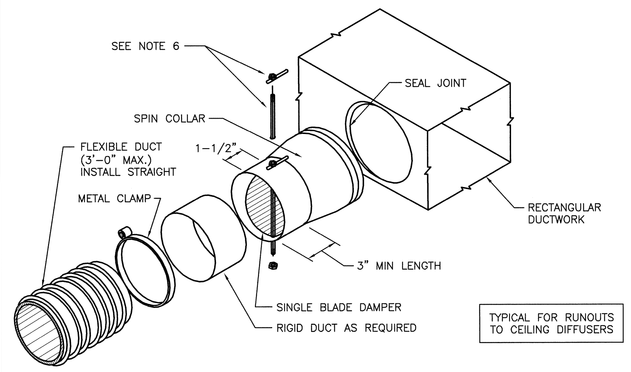


NOTES:
1. OFFSETS W/ FLEX DUCT SHALL NOT EXCEED 30° & SHALL BE GRADUAL. OFFSETS IN EXCESS OF 30° SHALL BE HARD DUCTED.
2. FLEX DUCT SHALL NOT HAVE MORE THAN 1/3" SAG/FT.
3. FOR PLENUM LENGTH REFER TO PLANS.

P4	TYPICAL LINEAR DIFFUSER
NOT TO SCALE	

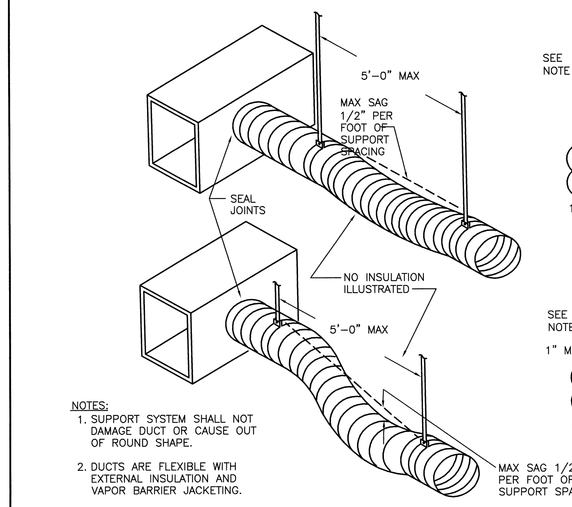


L7	VAV BOX SCHEMATIC
NOT TO SCALE	



NOTES:
1. SUPPORT IN ACCORDANCE W/ SMACNA GUIDLINES.
2. BAND FLEX TO COLLAR 1/2" MINIMUM FROM OUTBOARD END OF COLLAR.
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TESTING AND BALANCING CONTRACTOR.
4. POP RIVET OR SHEET METAL SCREWS, MINIMUM 3 EA AT 120° INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE W/DAMPER.
5. SEAL JOINTS TO PREVENT LEAKAGE USE SPECIFIED SEALANTS.
6. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY).

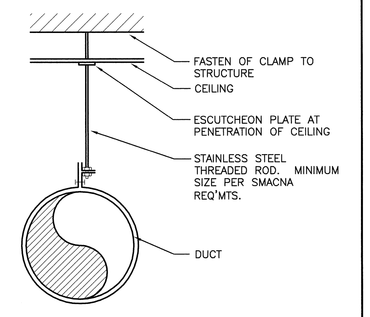
L11	SPIN COLLAR DUCT CONNECTOR WITH DAMPER
NOT TO SCALE	



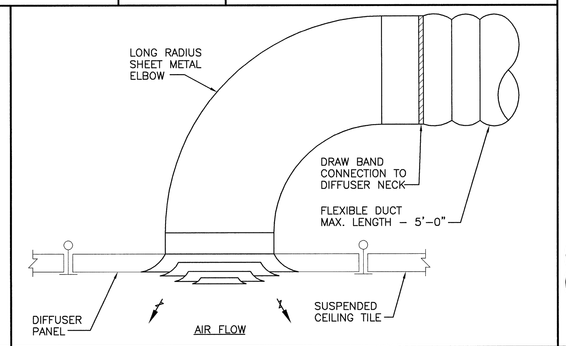
NOTES:
1. SUPPORT SYSTEM SHALL NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.
2. DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.
3. INSTALL FLEX DUCT STRAIGHT.

M16	STRAIGHT SECTION FLEXIBLE DUCT SUPPORT REQUIREMENTS
NOT TO SCALE	

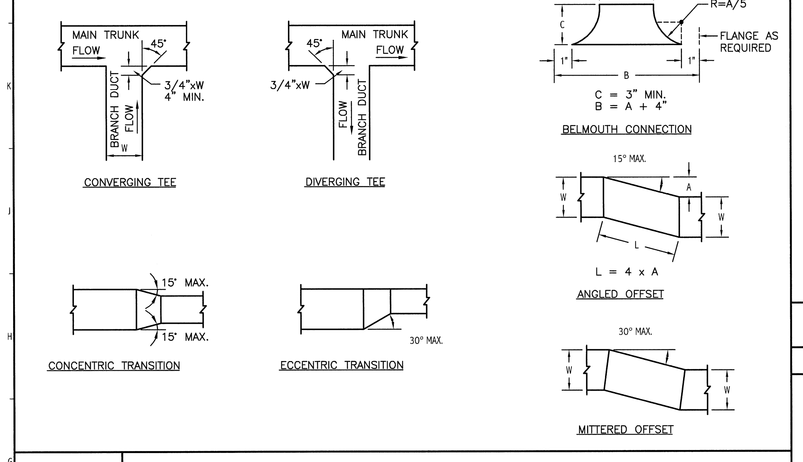
NOTES:
1. SEE G0001 FOR PROJECT GENERAL NOTES
2. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.



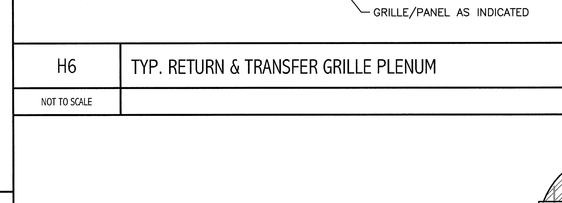
L1	DUCT HANGER
NOT TO SCALE	



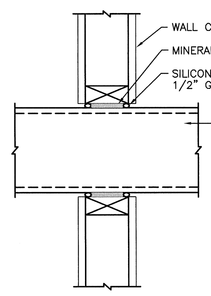
L3	FLEXIBLE DUCT
NOT TO SCALE	



G1	DUCT TRANSITIONS
NOT TO SCALE	

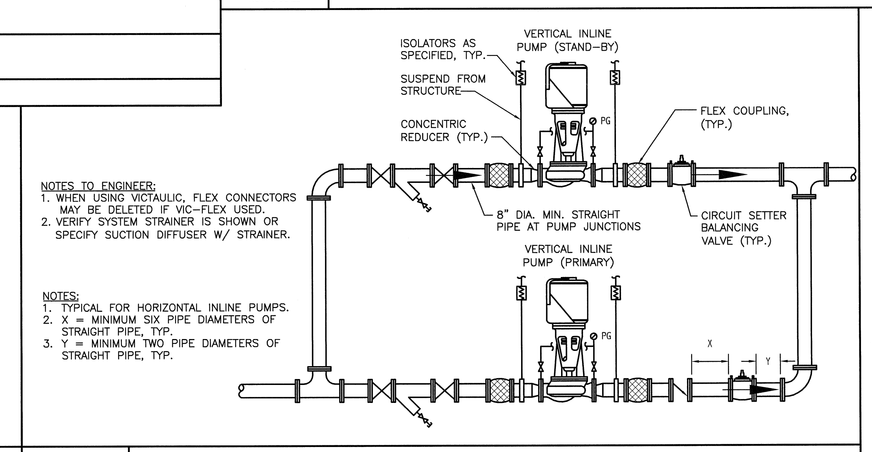


H6	TYP. RETURN & TRANSFER GRILLE PLENUM
NOT TO SCALE	



NOTES:
1. DRYWALL, METAL STUDS OR ANY OTHER RIGID MATERIAL MUST NOT TOUCH DUCT.
2. SUPPORT DUCT FROM HANGERS ON EITHER SIDE OF WALL. DO NOT LET DUCT "LOAD" ONTO WALL.
3. PENETRATION MUST BE SEALED 100% AIR TIGHT.
4. USE FIRE SEALANT AT FIRE WALLS.

H10	METAL DUCT WALL PENETRATION
NOT TO SCALE	

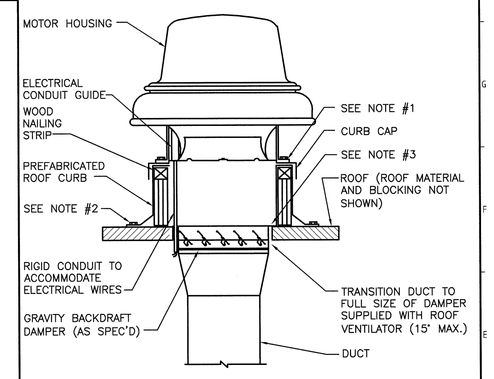


NOTES TO ENGINEER:
1. WHEN USING VICTAULIC, FLEX CONNECTORS MAY BE DELETED IF VIC-FLEX USED.
2. VERIFY SYSTEM STRAINER IS SHOWN OR SPECIFY SUCTION DIFFUSER W/ STRAINER.

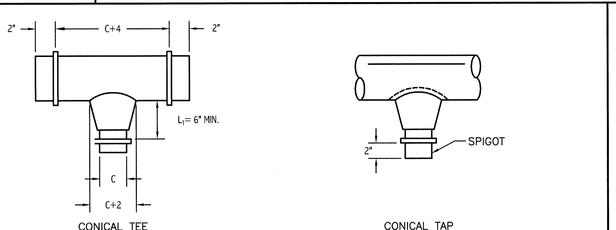
NOTES:
1. TYPICAL FOR HORIZONTAL INLINE PUMPS.
2. X = MINIMUM SIX PIPE DIAMETERS OF STRAIGHT PIPE, TYP.
3. Y = MINIMUM TWO PIPE DIAMETERS OF STRAIGHT PIPE, TYP.

H15	IN-LINE PUMP PIPING DETAIL
NOT TO SCALE	

NOTES:
1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF BLOCKING.
3. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH ROOF VENTILATOR.
4. RUN ELECTRIC LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

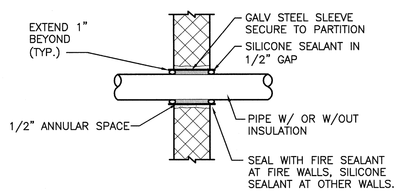


D20	ROOF VENTILATOR DETAIL
NOT TO SCALE	

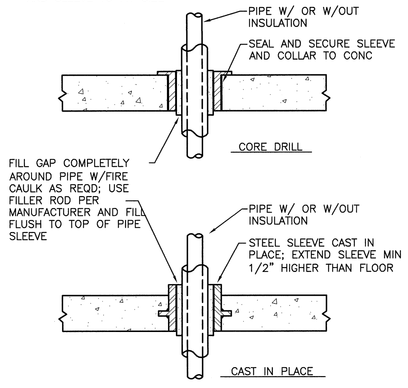


A1	CONICAL TEES
NOT TO SCALE	

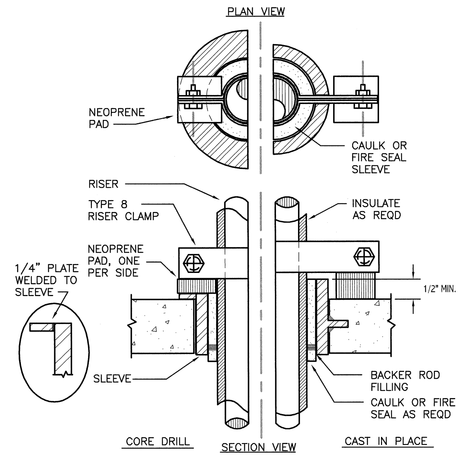
NOTE:
WHERE PIPING IS EXPOSED AT FINISH WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.



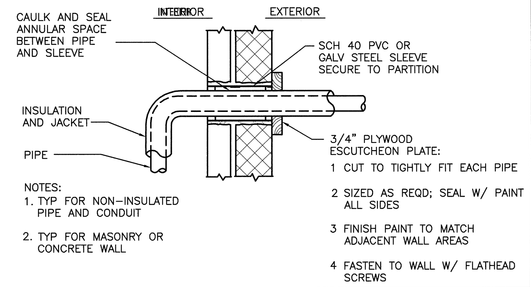
NOTE:
CORE DRILL EXISTING FLOOR AND SLEEVE TO FIT SIZE



PLAN VIEW

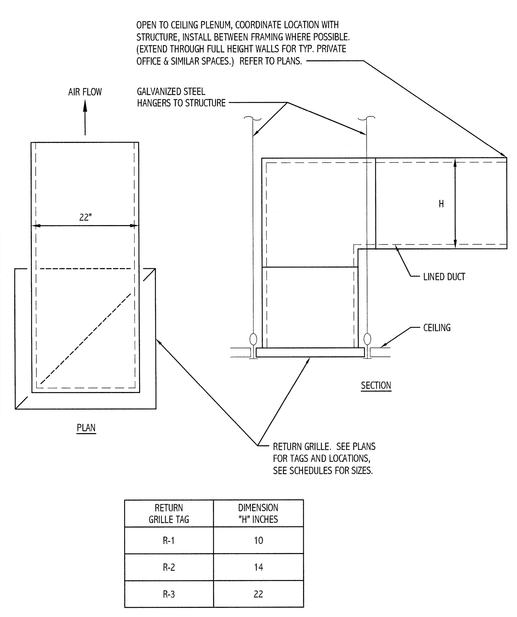


NOTE:
IF CAST IN PLACE, USE STEEL SLEEVE AND SET NEOPRENE PAD ON CONC



NOTES:
1. TYP FOR NON-INSULATED PIPE AND CONDUIT
2. TYP FOR MASONRY OR CONCRETE WALL

A5	PIPE PENETRATION DETAILS
NOT TO SCALE	



RETURN GRILLE TAG	DIMENSION "H" INCHES
R-1	10
R-2	14
R-3	22

A12	RETURN AIR BOOT DETAIL
NOT TO SCALE	TYPICAL PLENUM RETURN

REV.	DESCRIPTION	DATE
	ISSUED FOR G.M.P. & PERMITTING 4-3-09	

CURRENT ISSUE STATUS:

SMRT
ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN
COMMISSIONING
144 Fore Street/P.O. Box 618
Portland, Maine 04104
tel. (207) 772-3846
fax. (207) 772-1070
www.smrtinc.com

MARTIN'S POINT HEALTH CARE
MEDICAL OFFICE BUILDING
PORTLAND, MAINE

MECHANICAL
DETAILS
SHEET TITLE:

SCALE:	AS NOTED
PROJECT MANAGER:	SLB
JOB CAP/DRAWN:	TCM/DIL
A/E OF RECORD:	TAC
SMRT CAD FILE:	M-501-08139
PROJECT No.	08139
DATE:	
GRAPHIC SCALE:	0" 1"
SHEET No.	M-501

©COPYRIGHT 2008 SMRT INC

PROGRESS PRINT