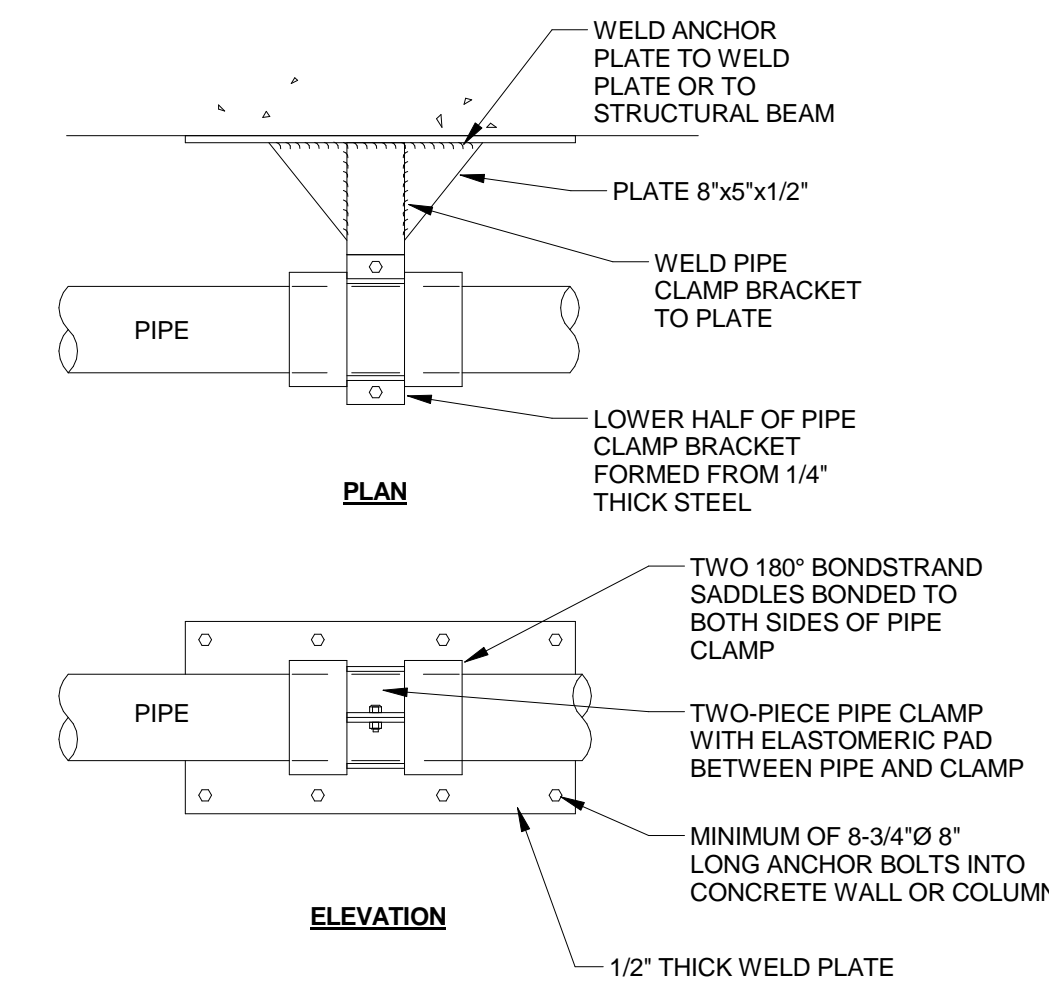


MAXIMUM PIPE/TUBING SUPPORT SPACING																			
NOM. SIZE	IN. [mm]	THRU 3/4 [20]	1 [25]	1 1/4 [32]	2 [40]	2 1/2 [50]	3 [65]	4 [75]	5 [100]	6 [125]	8 [150]	10 [200]	12 [250]	14 [300]	16 [350]	18 [400]	20 [450]	24 [600]	
PIPE	FT. [mm]		7	7	12	15	15	11	12	14	16	17	19	22	23	25	27	28	32
	FT. [mm]	[2100]	[2100]	[2100]	[2700]	[3000]	[3400]	[3700]	[4100]	[4500]	[5200]	[5800]	[6700]	[7000]	[7600]	[8200]	[8600]	[9100]	[9600]
TUBING	5 FT [mm]		6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-
	FT. [mm]	[1500]	[1800]	[2100]	[2400]	[2400]	[2700]	[3000]	[3700]	[4000]	[4400]	[4900]	-	-	-	-	-	-	-
NOTE: FOR TRAPEZE HANGER TIE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

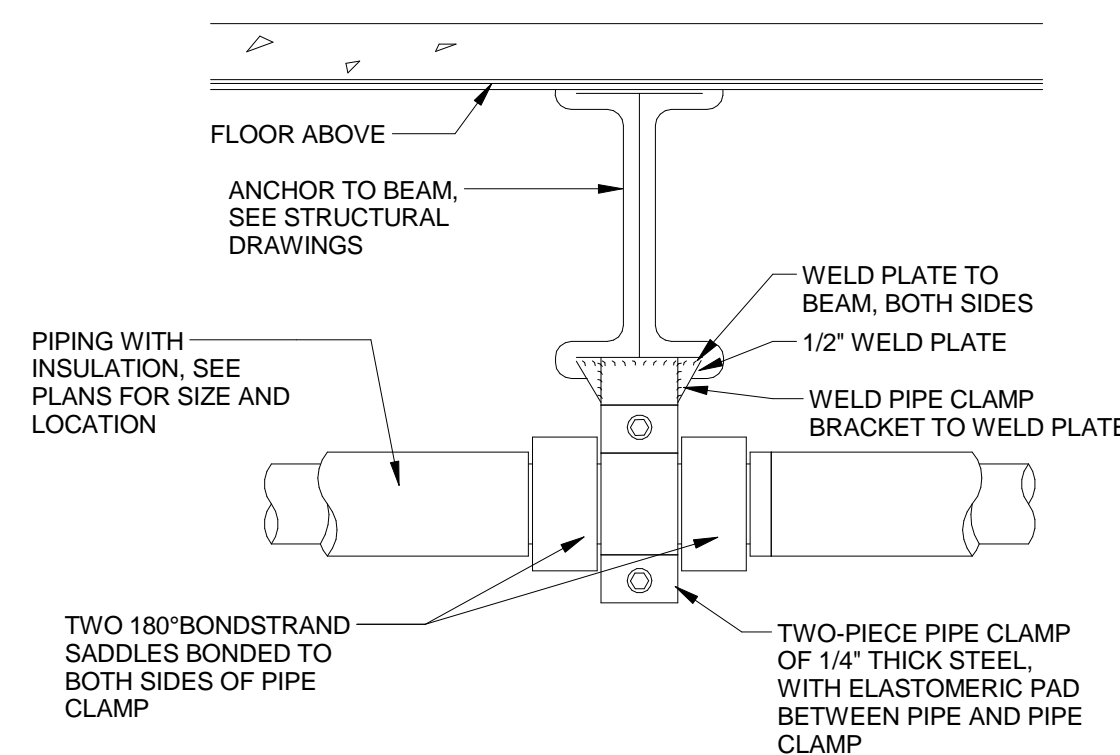
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

PIPE HANGERS



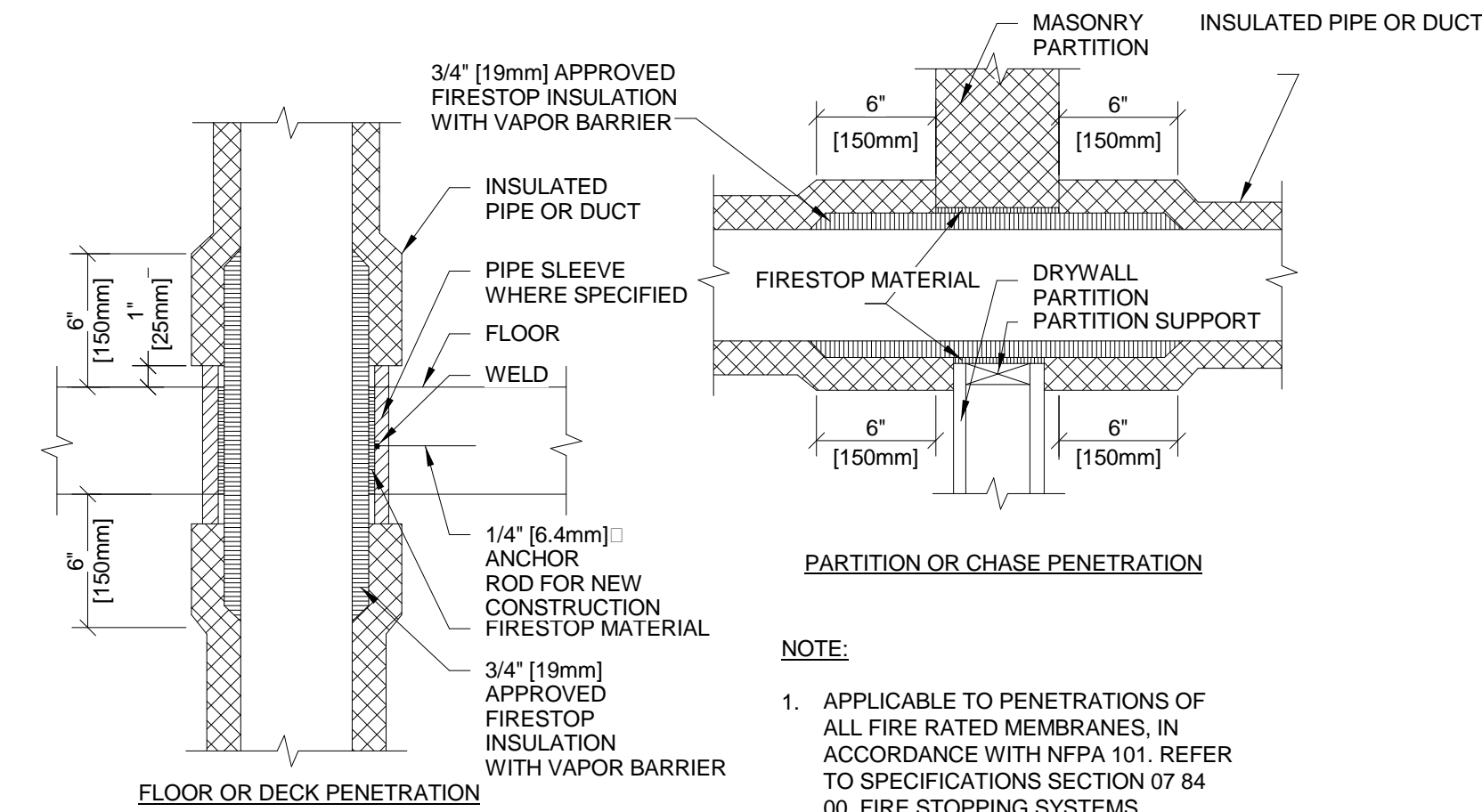
PIPE ANCHOR DETAIL

SCALE = NONE

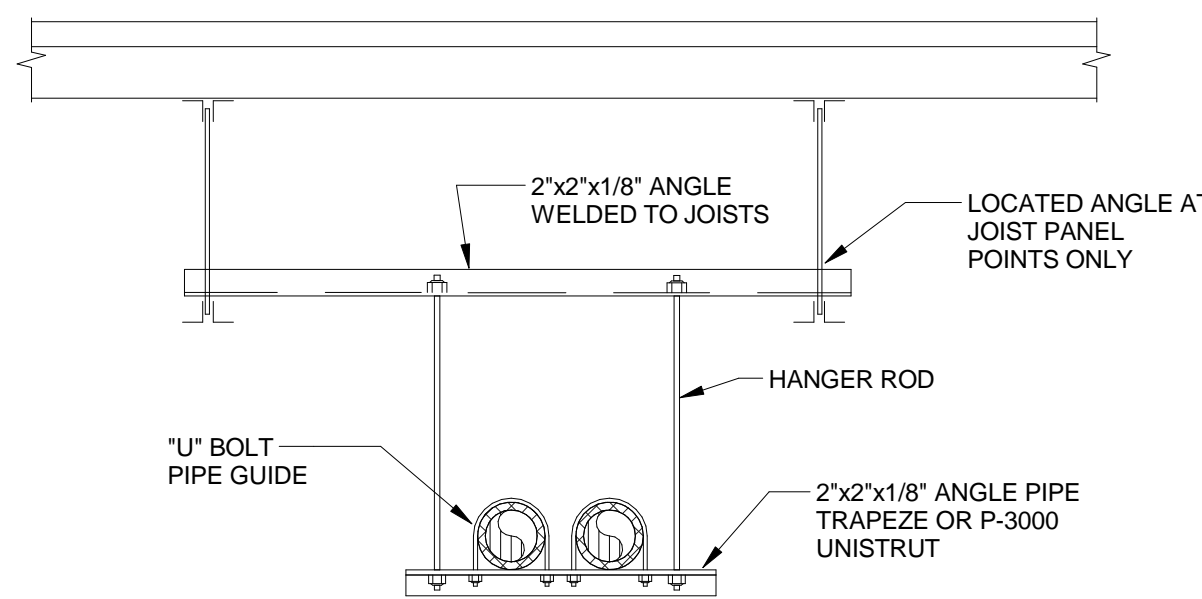


PIPE ANCHOR DETAIL

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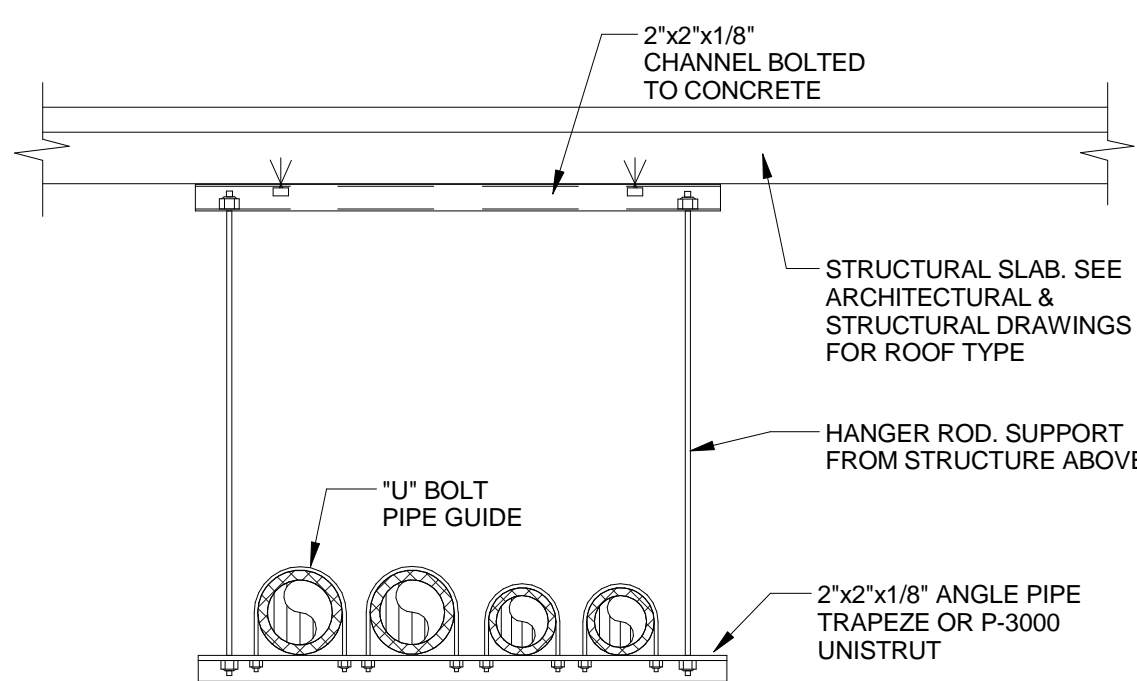
PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIERS



- NOTES:
1. PROVIDE SHEET METAL SLEEVE AROUND PIPE INSULATION AT ALL PIPE HANGERS. SEE SPECS. FOR INSULATION
 2. "U" BOLTS SHALL BE USED AS GUIDES ONLY, NOT ANCHORS.
 3. "U" BOLTS SHALL BE ON EVERY THIRD TRAPEZE (MIN.)
 4. DO NOT TIGHTEN "U" BOLTS ON PIPING OR INSULATION, LEAVE LOOSE AS PIPE GUIDE.

PIPE HANGER DETAIL

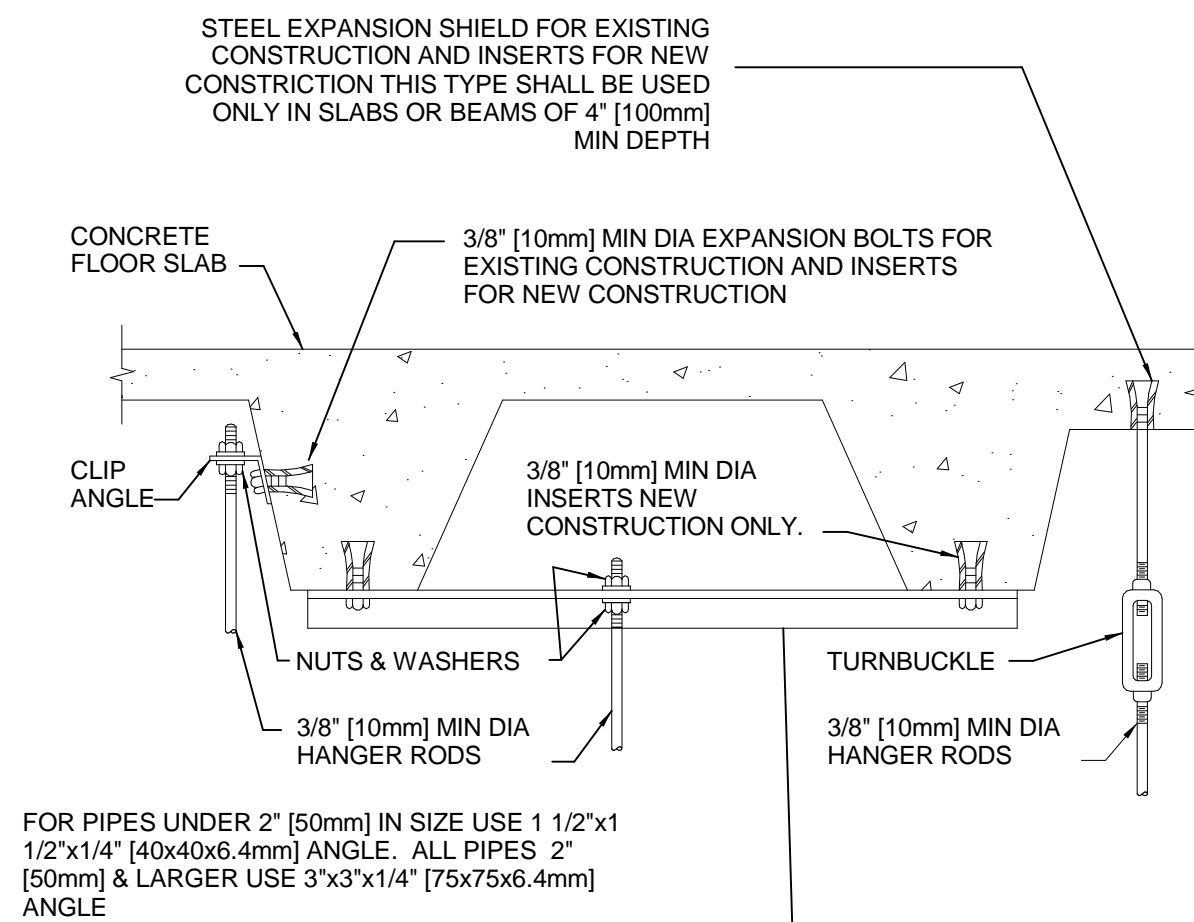
SCALE = NONE



- NOTES:
1. DO NOT HANG PIPING FROM STEE TEMS
 2. "U" BOLTS SHALL BE USED AS GUIDES ONLY, NOT ANCHORS.
 3. "U" BOLTS SHALL BE ON EVERY THIRD TRAPEZE (MIN.)
 4. DO NOT TIGHTEN "U" BOLTS ON PIPING OR INSULATION, LEAVE LOOSE AS PIPE GUIDE.
 5. PROVIDE SHEET METAL SLEEVE AROUND PIPE INSULATION AT ALL PIPE HANGERS. SEE SPECS. FOR INSULATION

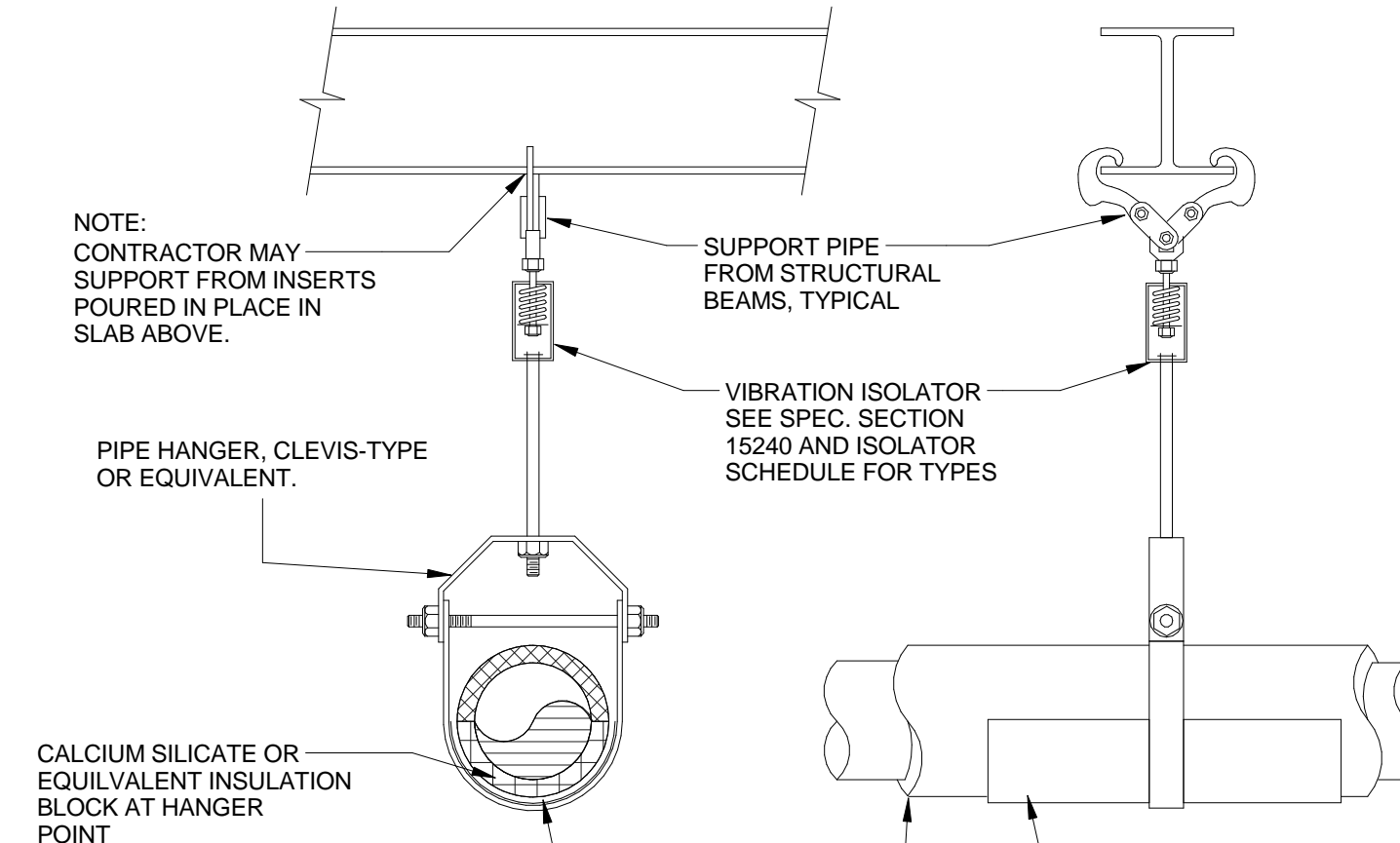
PIPE HANGER DETAIL

SCALE = NONE



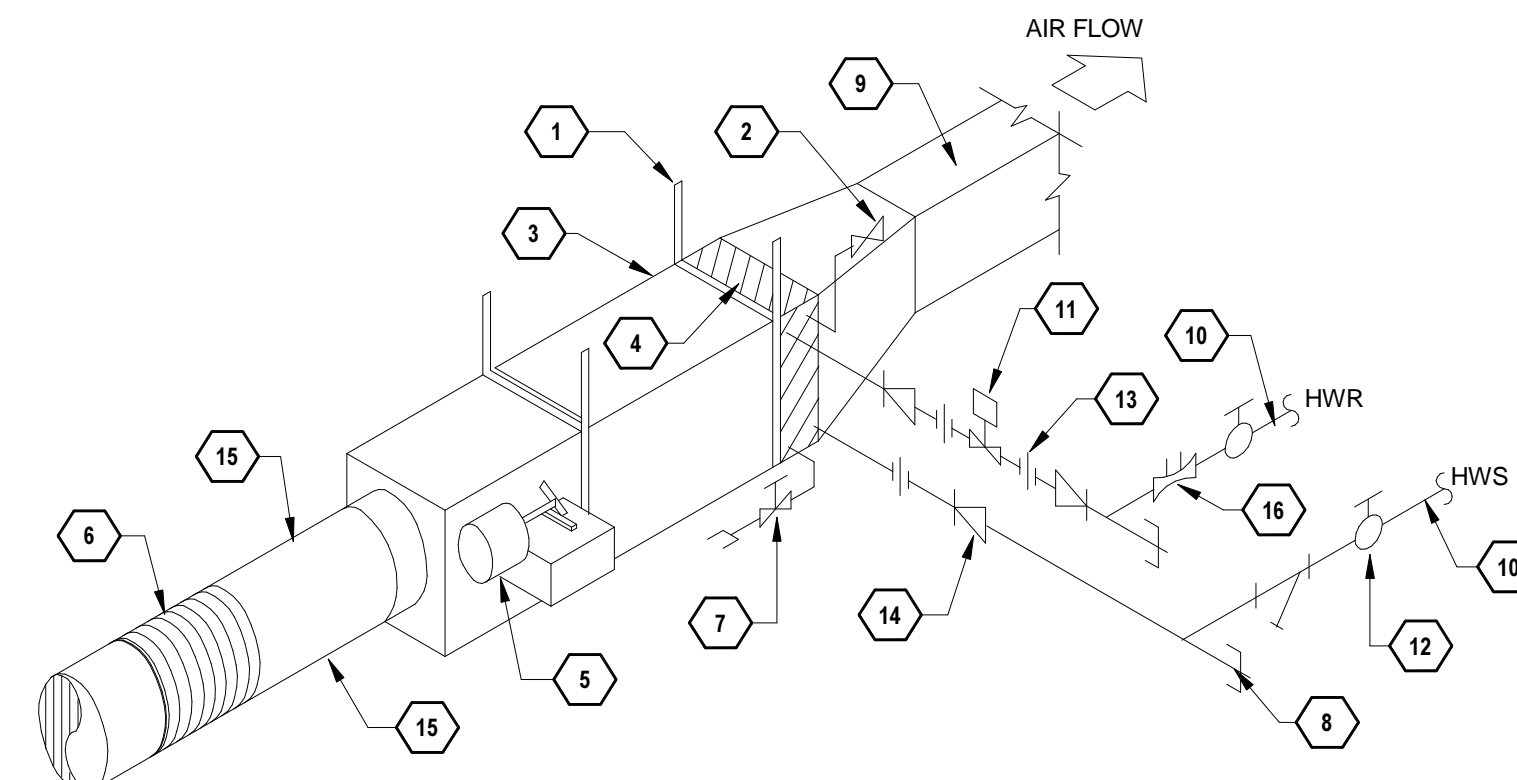
SECURING HANGER RODS IN CONCRETE

SCALE = NONE



PIPE HANGER DETAIL

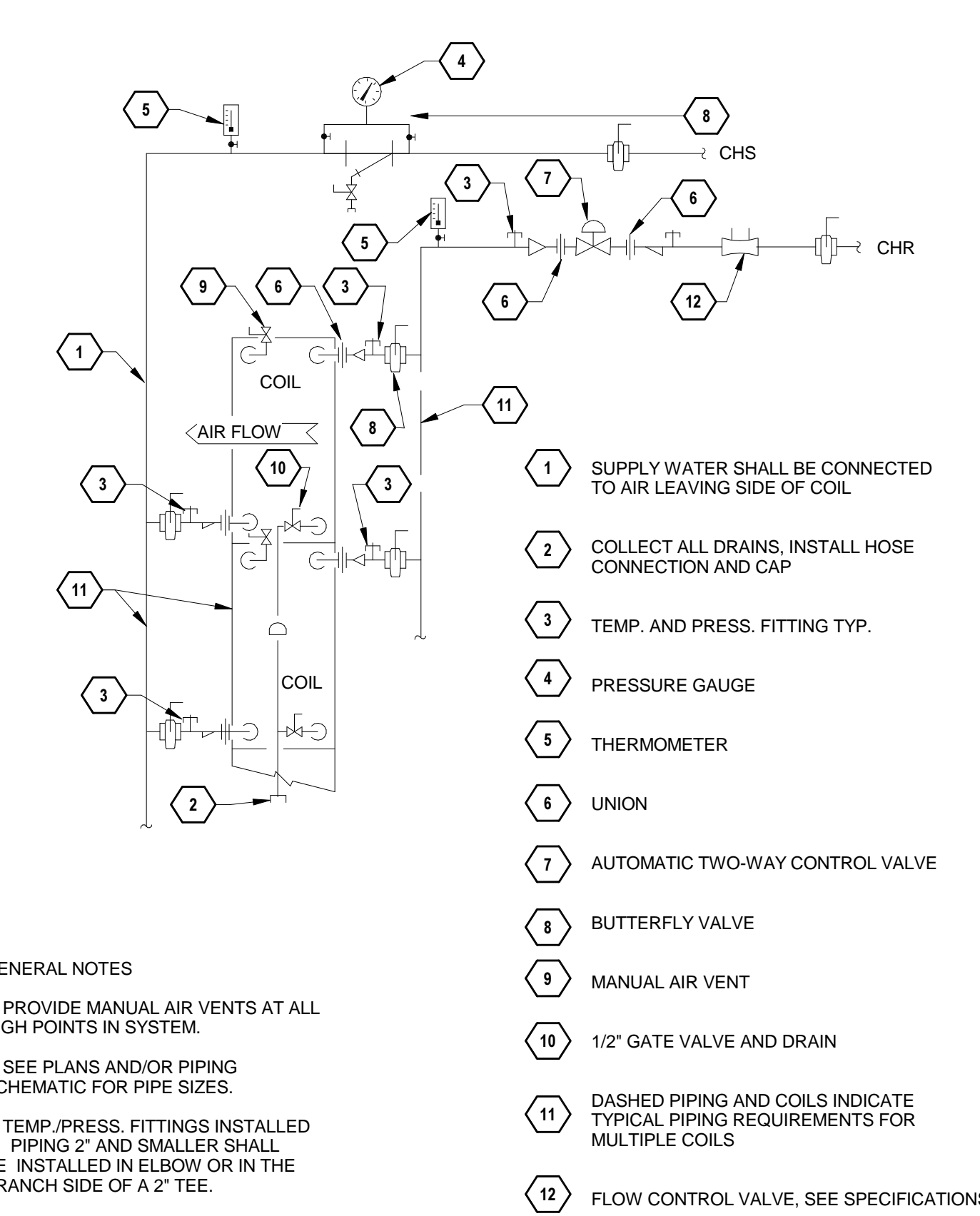
SCALE = NONE



1. METAL STRAP SUPPORT FROM STRUCTURE (TYPICAL)
2. MANUAL AIR VENT ON COIL OR HWR PIPING
3. FACTORY FABRICATED SOUND ATTENUATOR
4. HOT WATER COIL
5. VALVE ACTUATOR
6. HIGH VELOCITY FLEXIBLE SUPPLY DUCT 12" MIN., 24" MAX.
7. DRAIN
8. TEMPERATURE-PRESSURE FITTING (TYP.)
9. LOW VELOCITY DUCTWORK TO DISTRIBUTION
10. REFER TO PLANS FOR PIPE SIZES
11. 2-WAY CONTROL VALVE, NORMALLY CLOSED. FAIL TO COOL
12. BALL VALVE (TYP)
13. UNION (TYP)
14. REDUCER (TYP)
15. HIGH VELOCITY RIGID SUPPLY DUCT, 3 FT. MINIMUM STRAIGHT RUN PRIOR TO TERMINAL UNIT CONNECTION. SEE SCHEDULE FOR VALVE AND DUCT SIZES
16. FLOW BALANCING VALVE, OR FLOW LIMITING VALVE, SEE SPECIFICATIONS

SINGLE DUCT VAV TERMINAL UNIT WITH REHEAT COIL 2-WAY CONTROL VALVE

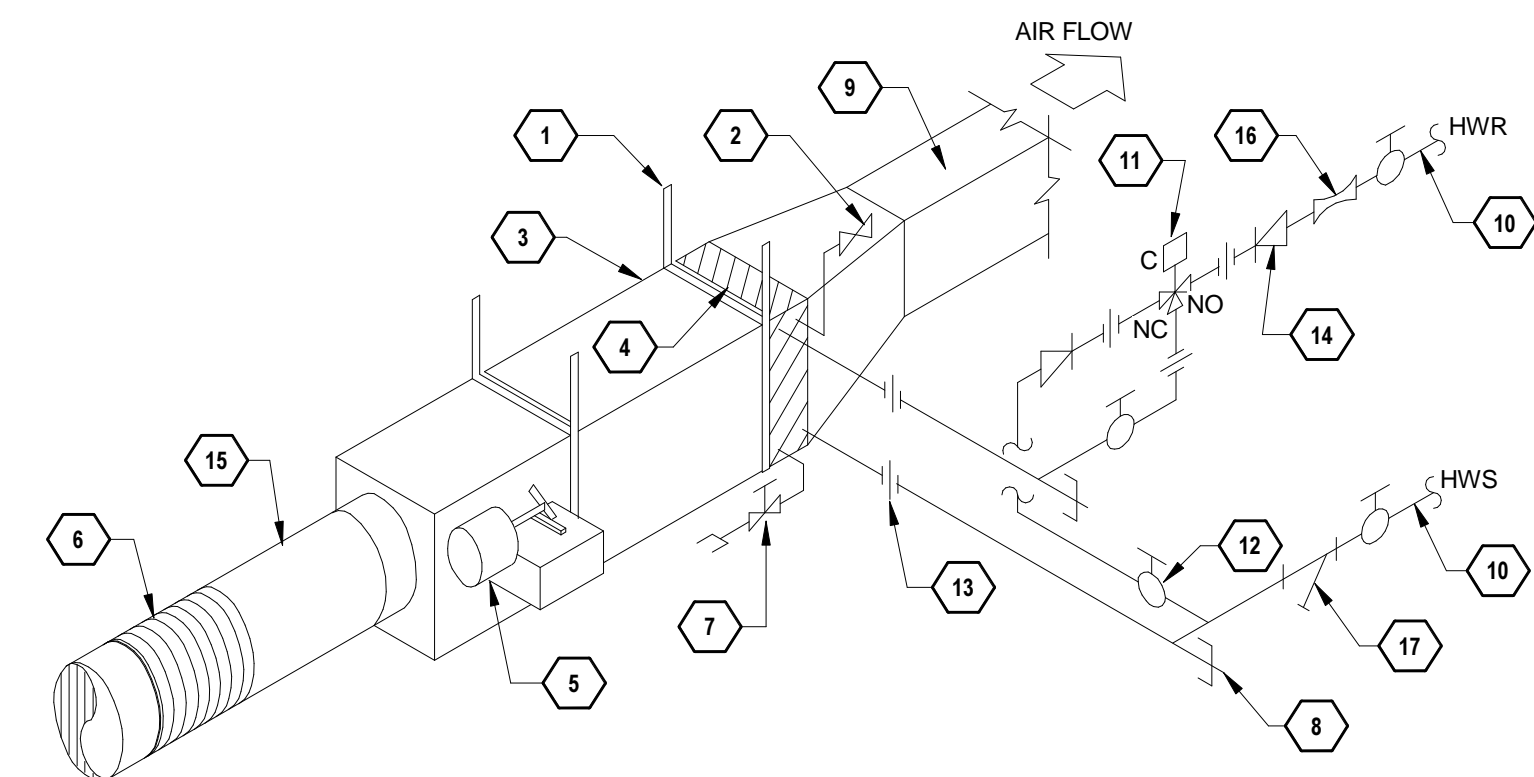
SCALE = NONE



- GENERAL NOTES
1. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN SYSTEM.
 2. SEE PLANS AND/OR PIPING SCHEMATIC FOR PIPE SIZES.
 3. TEMP./PRESS. FITTINGS INSTALLED IN PIPING 2" AND SMALLER SHALL BE INSTALLED IN ELBOW OR IN THE BRANCH SIDE OF A 2" TEE.

CHILLED WATER COIL PIPING SCHEMATIC (2-WAY)

SCALE = NONE



1. METAL STRAP SUPPORT FROM STRUCTURE (TYPICAL)
2. MANUAL AIR VENT ON COIL OR HWR PIPING
3. FACTORY FABRICATED SOUND ATTENUATOR
4. HOT WATER COIL
5. VALVE ACTUATOR
6. HIGH VELOCITY FLEXIBLE SUPPLY DUCT 12" MIN., 24" MAX.
7. DRAIN
8. TEMPERATURE-PRESSURE FITTING (TYP.)
9. LOW VELOCITY DUCTWORK TO DISTRIBUTION
10. REFER TO PLANS FOR PIPE SIZES
11. 3-WAY CONTROL VALVE
12. BALL VALVE (TYP)
13. UNION (TYP)
14. REDUCER (TYP)
15. HIGH VELOCITY RIGID SUPPLY DUCT, 3 FT. MINIMUM STRAIGHT RUN PRIOR TO TERMINAL UNIT CONNECTION. SEE SCHEDULE FOR VALVE AND DUCT SIZE
16. FLOW BALANCING VALVE, SEE SPEC.
17. STRAINER

SINGLE DUCT VAV TERMINAL UNIT WITH REHEAT COIL 3-WAY CONTROL VALVE

SCALE = NONE

COMPLETION ITEM NO. _____
FULLY SPRINKLERED

CONSULTANTS:		ARCHITECT/ENGINEERS		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management	
				MECHANICAL DETAILS		MICU-SICU CONSOLIDATION & PACU BUILDING 41		501-324			
				Approved: Project Director		Location		Building Number		Department of Veterans Affairs	
						NM/VAHCS RAYMOND G. MURPHY VAMC		BUILDING 41			
						Date		Drawing Number			
						SEPTEMBER 26, 2014		M502			
						Checked		Dwg. Of			
						ROS		ACB			