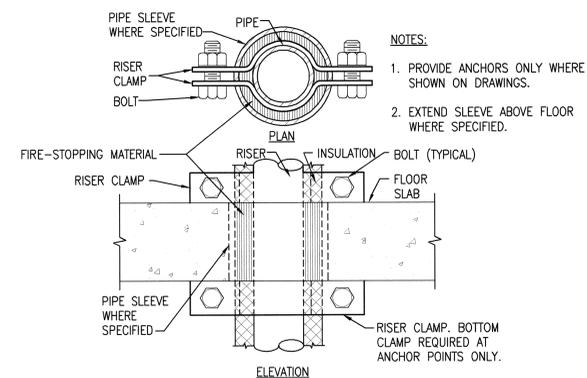


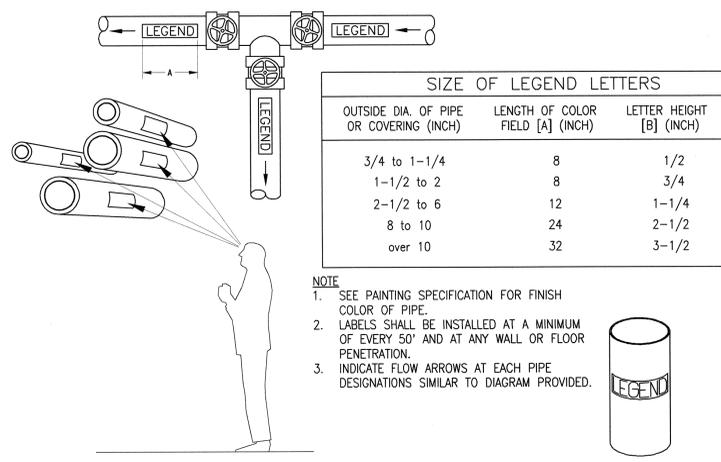
MAXIMUM PIPE/TUBING SUPPORT SPACING										
NOM. SIZE	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
	THRU (20)	(25)	(32)	(40)	(50)	(65)	(75)	(100)	(125)	(150)
PIPE	7	7	7	9	10	11	12	14	16	17
(M)	(2.1)	(2.1)	(2.1)	(2.7)	(3.0)	(3.4)	(3.7)	(4.1)	(4.9)	(5.2)
TUBING	5 FT	6	7	8	8	9	10	12	13	14
(M)	5 FT	(1.8)	(2.1)	(2.4)	(2.4)	(2.7)	(3.0)	(3.7)	(4.0)	(4.1)

NOTES:
 1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.
 2. EACH PIPE SEGMENT SHALL HAVE A MINIMUM OF ONE (1) HANGER, REGARDLESS OF SUPPORT SPACING INDICATED.
 3. SUPPORT PIPE WITHIN 12" OF EACH ELBOW.

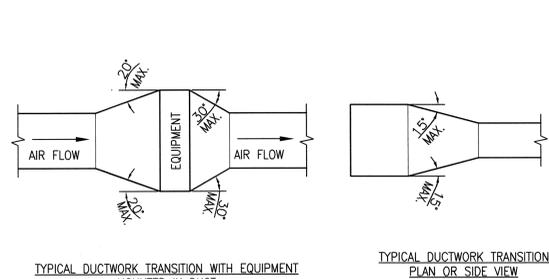
A1 TYPICAL PIPE HANGERS
SCALE: NONE



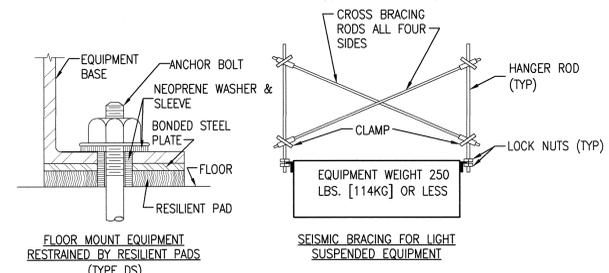
D1 SUPPORT/ANCHOR FOR PIPE RISERS
SCALE: NONE



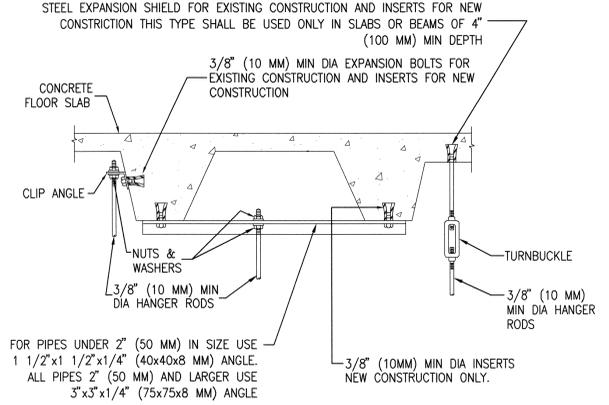
F1 PIPING SYSTEM IDENTIFICATION
SCALE: NONE



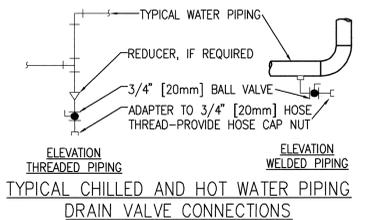
A4 TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT
SCALE: NONE



C4 SEISMIC BRACING FOR EQUIPMENT
SCALE: NONE

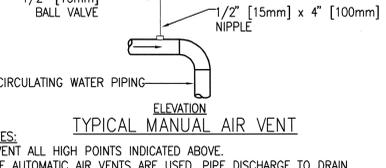


A7 TYPICAL METHOD OF SECURING HANGER RODS IN CONCRETE SLABS AND BEAMS
SCALE: NONE

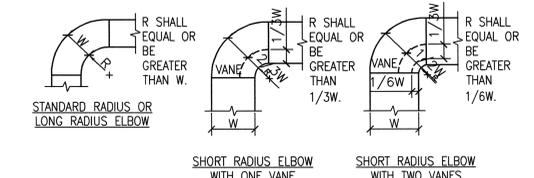


TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

NOTES:
 1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
 2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

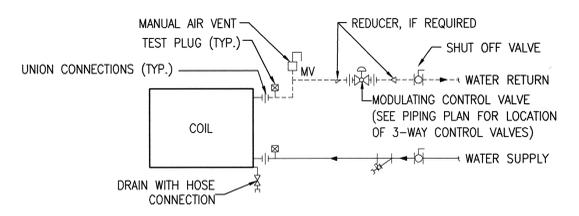


D7 DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)
SCALE: NONE



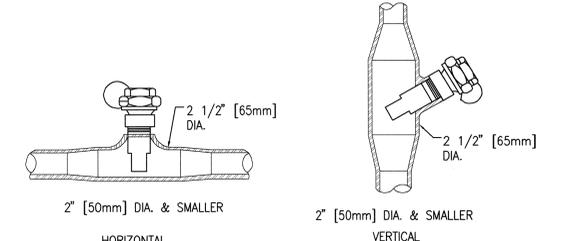
NOTE:
 1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

F7 DUCTWORK RADIUS ELBOWS
SCALE: NONE



A9 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS
SCALE: NONE

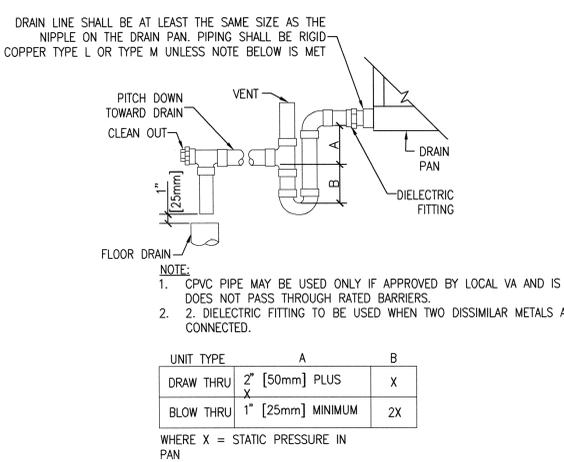
NOTES:
 1. TO ENSURE MINIMUM PIPE FLOW AND ADEQUATE TEMPERATURE IN HW HEATING LOOP, SOME VAV TERMINALS WILL BE PROVIDED WITH 3-WAY CONTROL VALVES.



C9 INSTALLATION OF THERMOMETER WELLS
SCALE: NONE

NOTES:
 1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
 3. ALL SINGLE VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
 4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

D9 DUCTWORK SQUARE VANED ELBOWS
SCALE: NONE



F4 AIR HANDLING UNIT DRAIN TRAP DETAIL
SCALE: NONE

REVISION NO.	REVISION DESCRIPTION

Department of Veterans Affairs
Veterans Healthcare System of the Ozarks
 1100 North College Avenue
 Fayetteville, AR 72703

Architect/Engineer Address

HARRELL DESIGN GROUP, P.C.

8016 TOWER POINT DRIVE
 CHARLOTTE, NC 28227
 P 704-814-1320
 F 704-321-0833
 WWW.HARRELLDC.COM
 COPYRIGHT © 2014 HARRELL DESIGN GROUP, PC
 HDC PROJECT # 14001

APPROVALS:	
CHIEF OF ENGINEERING	

Drawing Title MECHANICAL DETAILS	Project Title RENOVATE 3B CLINIC FOR STEP-DOWN, B1	Date 1/8/2015
FULLY SPRINKLERED	Drawn DWS	Project Number 564-14-102
100% FINAL CONSTRUCTION DRAWINGS	Building Number 1	AutoCAD File Name DRAWING No. M501
	Checked DWS	Const. Contract No.
	Reviewed JEM	

