

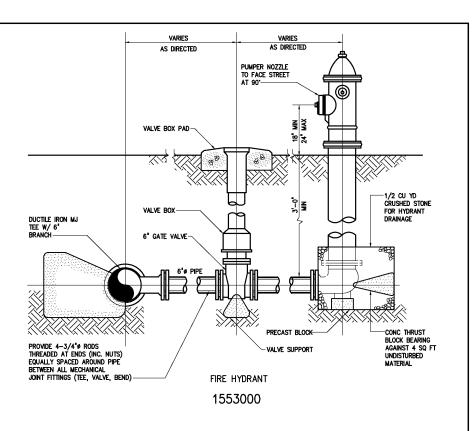
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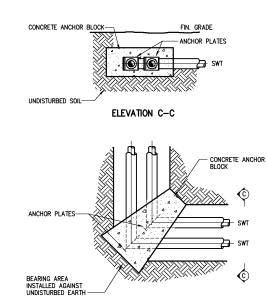
						THREA	DED ROD	SCH	EDULE					
					DESI	GN PRES	SSURE (DIM	ENSIONS	IN INCHES	,				
PIPE	50 PSI 100 PSI		PSI	150 PSI		200 PSI		250 PSI		300 PSI		350 PSI		
SIZE	BOLTS NO-DIA	TAB THK												
4,6	2-3/4	1	2-3/4	1	2-3/4	1	2-3/4	1	2-3/4	1	2-3/4	1	2-3/4	1
8	2-3/4	1 1/4	2-3/4	1 1/4	2-3/4	1 1/4	2-3/4	1 1/4	2-3/4	1 1/4	4-3/4	1 1/4	4-3/4	1 1/4
10	2-3/4	1 1/4	2-3/4	1 1/4	2-3/4	1 1/4	4-3/4	1 1/4	4-3/4	1 1/4	4-3/4	1 1/4	4-3/4	1 1/4
12	2-3/4	1 1/4	2-3/4	1 1/4	4-3/4	1 1/4	4-3/4	1 1/4	6-3/4	1 1/4	6-3/4	1 1/4	6-3/4	1 1/4
14	2-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2
16	2-3/4	1 1/2	4-3/4	1 1/2	6-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2	4-3/4	1 1/2	6-3/4	1 1/2
18	2-3/4	1 3/4	4-3/4	1 3/4	6-3/4	1 3/4		1 3/4	6-3/4	1 3/4		1 3/4	6-3/4	1 3/4
20	4-3/4	1 3/4	4-3/4	1 3/4	4-3/4	1 3/4	4-3/4	1 3/4	6-3/4	1 3/4	6-3/4	1 3/4	8-3/4	1 3/4
24	4-3/4	2	4-3/4	2	6-3/4	2	6-3/4	····2	8-3/4	2	10-3/4	····2	10-3/4	2
30	4–1	2 1/4	41	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4
36	4-1	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2
	4-1 1/4										12-1 1/4			2 3/4
		2 3/4	4-1 1/4	2 3/4	8-1 1/4		8-1 1/4							
54	6-1 1/4	3	6-1 1/4		8-1 1/4		12-1 1/4	3	14-1 1/4		16-1 1/4	3	18-1 1/4	3
THREADED RODS FOR ALL PIPE DIAMETERS IN THE SHADED AREA SHALL BE ASTM A193 (GRADE B7). ALL OTHER THREADED RODS SHALL BE ASTM A35. ALL TABS SHALL BE ASTM A57.2 GR50. ASTM A193 (GRADE B7) RODS SHALL BE LABELED AND BUNDLED SEPARATELY. THIS SCHEDULE SHALL APPLY FOR HARNESSED FLANGED ADAPTERS, HARNESSED FLEXIBLE COUPLINGS AND ALL MECHANICAL JOINT COUPLINGS, SLEEVES ETC. THAT ARE REQUIRED TO BE HARNESSED.														

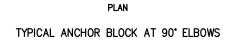
5. RODS THREADED AT ENDS (INCLIDING NUTS) SHALL BE EQUALLY SPACED AROUND PIPE BETWEEN ALL MECHANICAL JOINT FITTINGS (TEE, VALVES, BEND, PLUG, ETC.) OR AS OTHERWISE SHOWN ON THE CONTRACT DRAWNOS. THREADED RODS SHALL BE AS SHOWN IN THE THREADED ROD SCHEDULE. SEE NOTE 6.

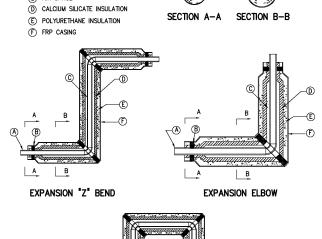
6. RODS, NUTS, ETC., IN CONTACT WITH SOIL SHALL BE PAINTED WITH TWO COATS COAL TAR (MIN 26 DRY MIL THICKNESS) TNEMEC 46-465 HI-BUILD OR EQUAL.

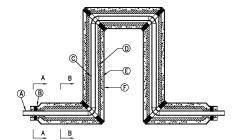
A STEEL CARRIER PIPE B GUIDE © AIR SPACE







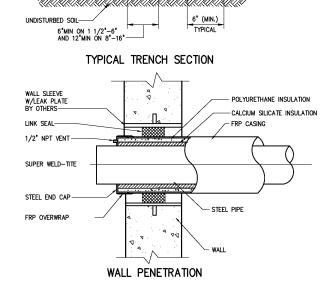




EXPANSION LOOP PRE-INSULATED SUPER WELD-TITE EXPANSION FITTINGS

STEAM PIPING DETAILS

NOT TO SCALE



				DESIGNED	H&S
				DRAWN	H&:S
				CHECKED	
3	RECORD DRAWING	JAN 2006	RLT	PROJ. ENGR.	H&S
2	CONSTRUCTION	JAN 2004	RLT	PROJ. ENGR	1100
1	REGULATORY APPROVAL	NOV 2003	RLT		
NO.	ISSUED FOR	DATE	BY	APPROVED	

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CITY OF ROANOKE VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT PROCESS TRAIN IMPROVEMENTS

MISCELLANEOUS STANDARD	DETAILS

	THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JANUARY 2004				
		H & S JOB NUMBER	30788C			
		CONTRACT NUMBER C	DRAWING NUMBER D13			