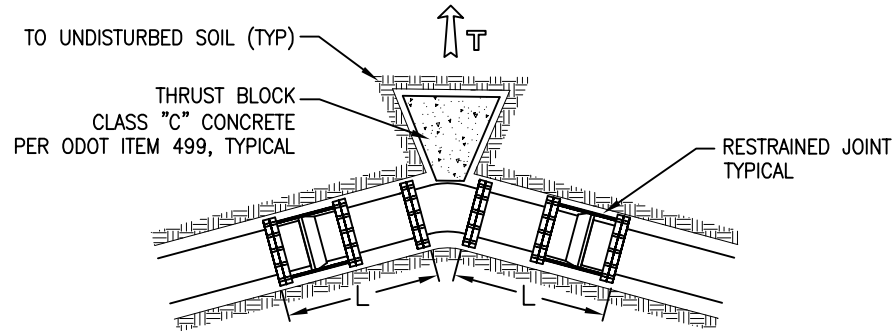
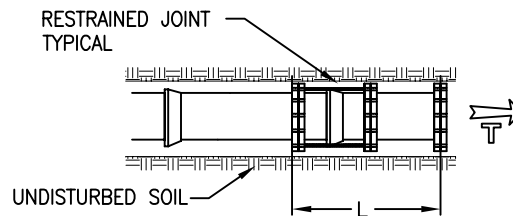


THRUST BLOCKING BEARING AREA (S.F.) REQUIRED FOR 200 PSI WATER PRESSURE BASED ON 2000 PSF SOIL					
NOM. PIPE DIA. (IN.)	DEAD END	90° BEND	45° BEND	22½° BEND	11¼° BEND
6"	3.7	5.3	2.9	1.5	0.7
8"	6.4	9.1	4.9	2.5	1.3
10"	9.7	13.7	7.4	3.8	1.9
12"	13.7	19.4	10.5	5.3	2.7
16"	23.8	33.6	18.2	9.3	4.7



HORIZONTAL BEND RESTRAINT LENGTH



DEAD END OR VALVE RESTRAINT LENGTH

HORIZONTAL BEND					*CROSS	VALVE or DEAD END PLUG
SIZE	11 ¼'	22 ½'	45'	90'		
6"	2'	3'	5'	12'	6'	36'
8"	2'	4'	7'	16'	17'	47'
10"	2'	4'	8'	19'	26'	57'
12"	3'	5'	10'	22'	36'	67'
16"	3'	6'	12'	28'	55'	87'

NOTES:

1. SEE DETAIL WM-1 FOR AGGREGATE BEDDING SPECIFICATIONS
2. ALL DUCTILE IRON WATER MAIN SHALL BE WRAPPED IN POLYETHYLENE.