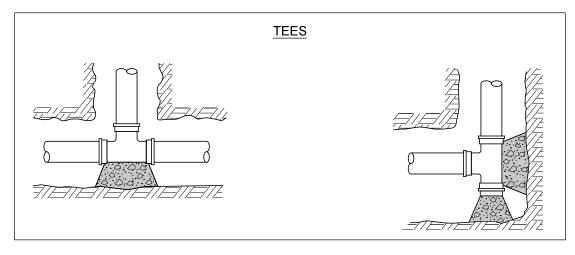
Water Main

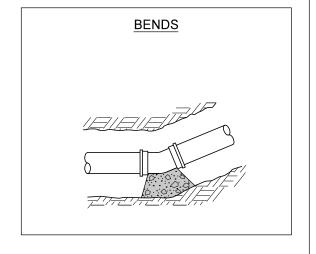
SECTION

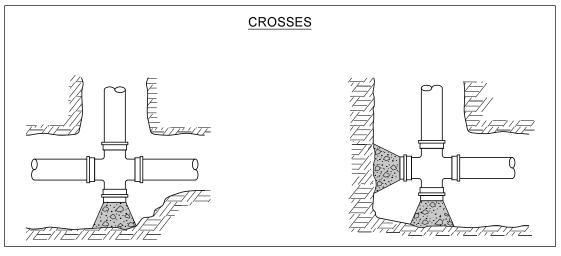
Water Main

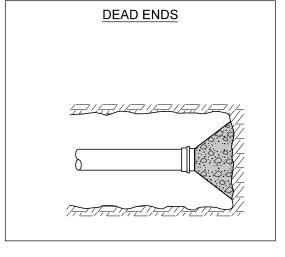
NO.	DATE	TITLE
WM-101 WM-102 WM-201	10-18-16 10-18-16 04-19-22	Thrust Blocks Tracer System Fire Hydrant Assembly

TYPICAL PLAN









Extend thrust blocks to undisturbed soil. Excavation into trench wall may be necessary.

Form vertical surfaces of poured concrete thrust blocks except on bearing surface.

Encase all fittings in polyethylene wrap. Do not allow concrete to directly contact joints or fitting bolts.

5	MINIMUM BEARING SURFACE (sf)					
Diameter of Pipe, D		Tees and				
(inches)	11 ¹ / ₄ °	22½°	45 [°]	90 [°]	Dead Ends	
4	1	1	2	4	3	
6	1	2	4	8	6	
8	2	4	7	14	10	
10	3	6	11	21	15	
12	4	8	16	29	21	
14	5	11	21	39	28	
16	7	14	27	50	36	
18	9	17	34	63	45	
20	11	21	42	78	55	
24	15	31	60	111	78	
30	24	47	92	171	120	
36	34	67	132	244	173	

Minimum surface area based on water pressure of 150 psi and allowable soil pressure of 1,000 psf.

