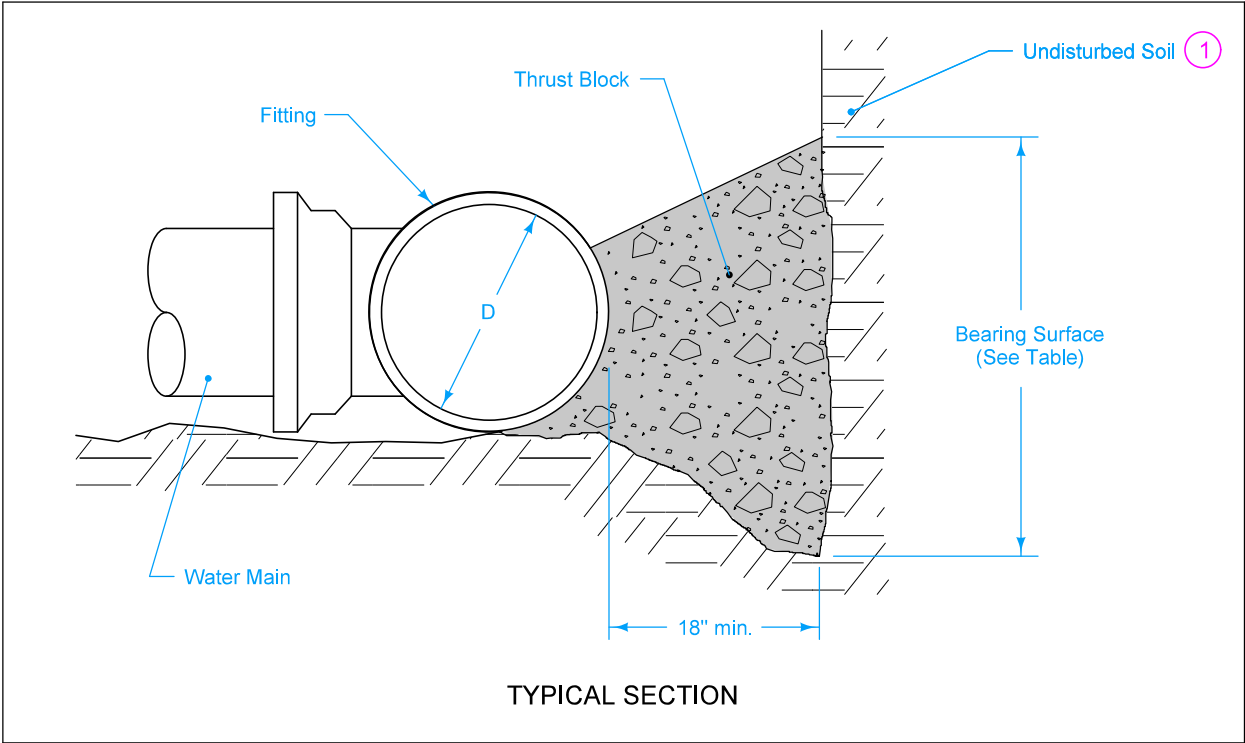
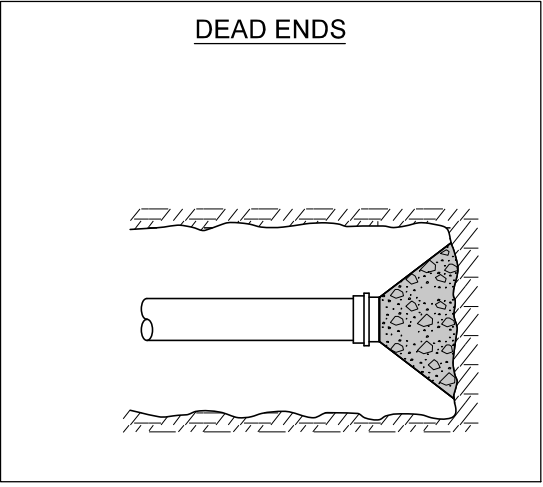
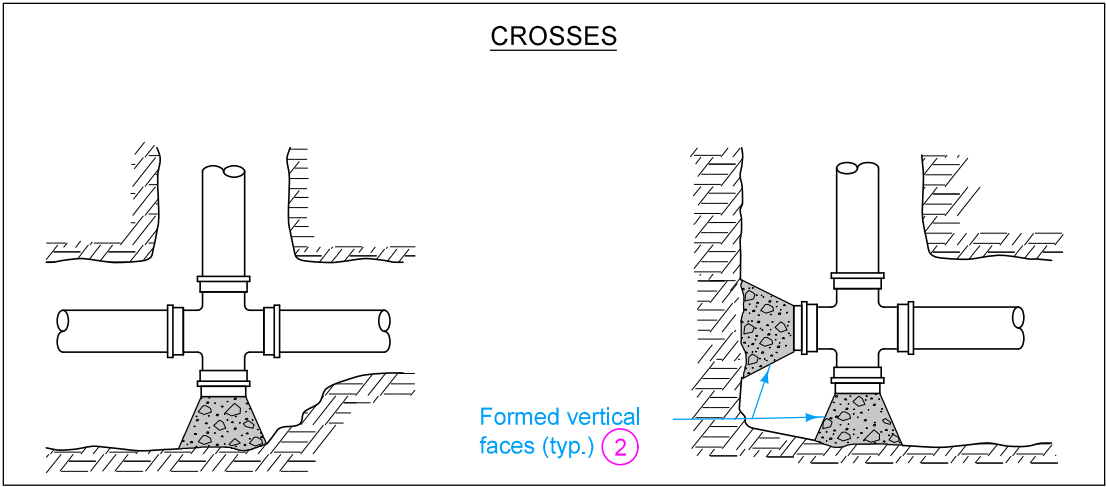
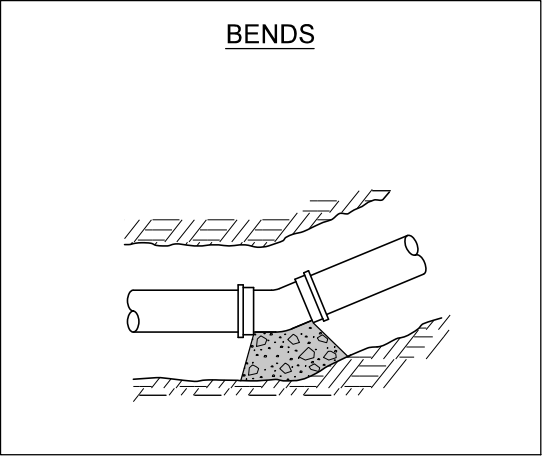
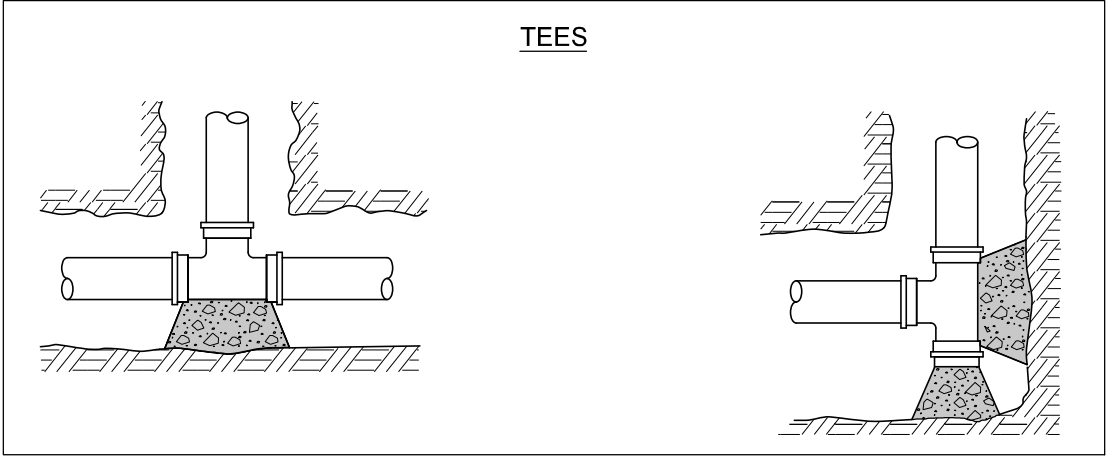




- Encase all fittings in polyethylene wrap. Do not allow concrete to directly contact joints or fitting bolts.
- 1 Extend thrust blocks to undisturbed soil. Excavation into trench wall may be necessary.
 - 2 Form vertical surfaces of poured concrete thrust blocks except on bearing surface.

Diameter of Pipe, D (inches)	MINIMUM BEARING SURFACE (sf)				
	Bends				Tees and Dead Ends
	11¼°	22½°	45°	90°	
4	1	2	3	4	3
6	2	3	5	8	6
8	2	4	8	14	10
10	3	6	12	21	15
12	5	9	16	30	21
14	6	11	22	40	28
16	7	14	28	51	36
18	9	18	35	64	45
20	11	22	42	78	55
24	16	31	61	111	79
30	24	48	93	171	121
36	34	68	133	245	173

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



TYPICAL PLAN



FIGURE 5010.101**STANDARD ROAD PLAN**

REVISION
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WM-101

SHEET 1 of 2

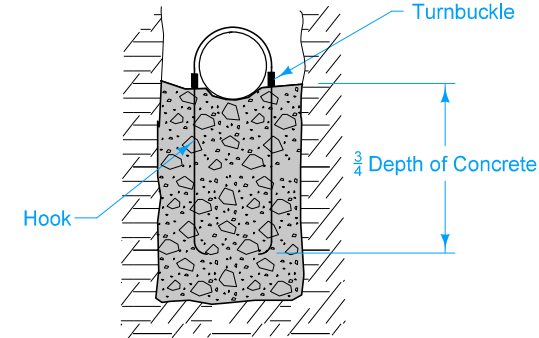
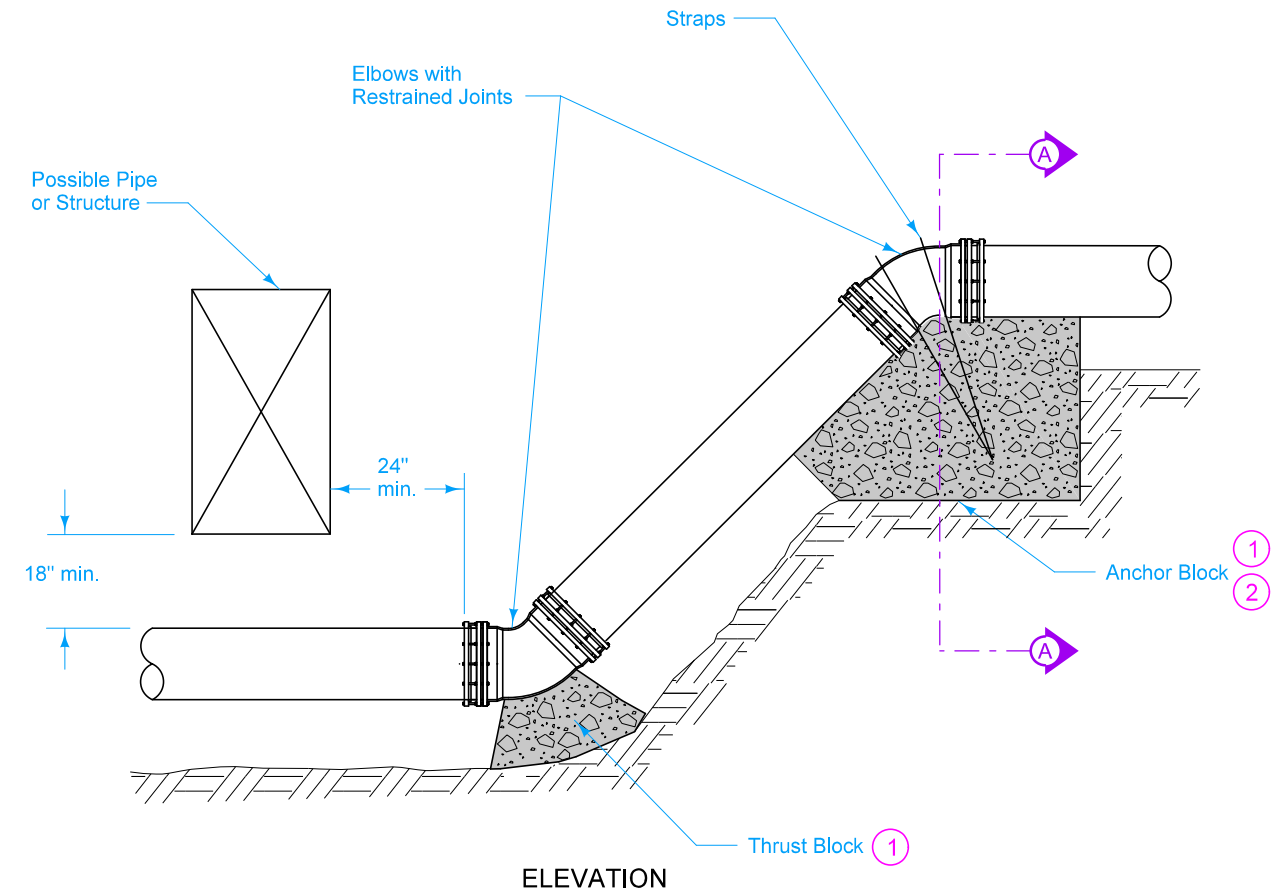
REVISIONS: Removed Interim


SUDAS DIRECTOR


DESIGN METHODS ENGINEER

THRUST BLOCKS

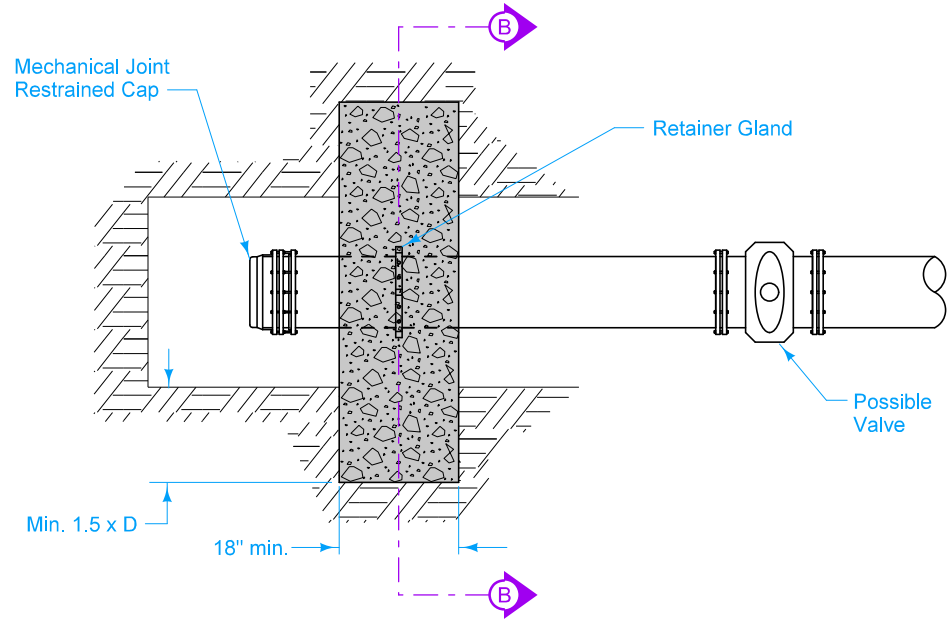
CHANGES IN PIPE DEPTH



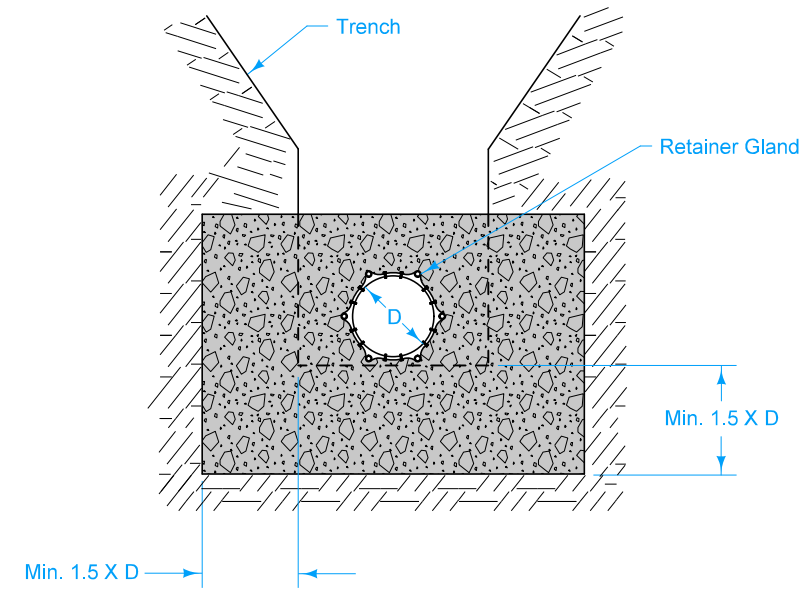
SECTION A-A

DEAD ENDS (ALTERNATE METHOD)

Use only when allowed by the Engineer, or when specified in the contract documents.



PLAN



SECTION B-B

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

- 1 Fittings are shown with both restrained joints and thrust/anchor blocks. These methods can be used independently or in conjunction with each other. Install as specified.
- 2 Anchor block sizes and shapes are detailed on individual plan sheets.

		REVISION	
		3	10-20-26
		WM-101	
FIGURE 5010.101	STANDARD ROAD PLAN	SHEET 2 of 2	
REVISIONS: Removed interim			
			
SUDAS DIRECTOR		DESIGN METHODS ENGINEER	
THRUST BLOCKS			