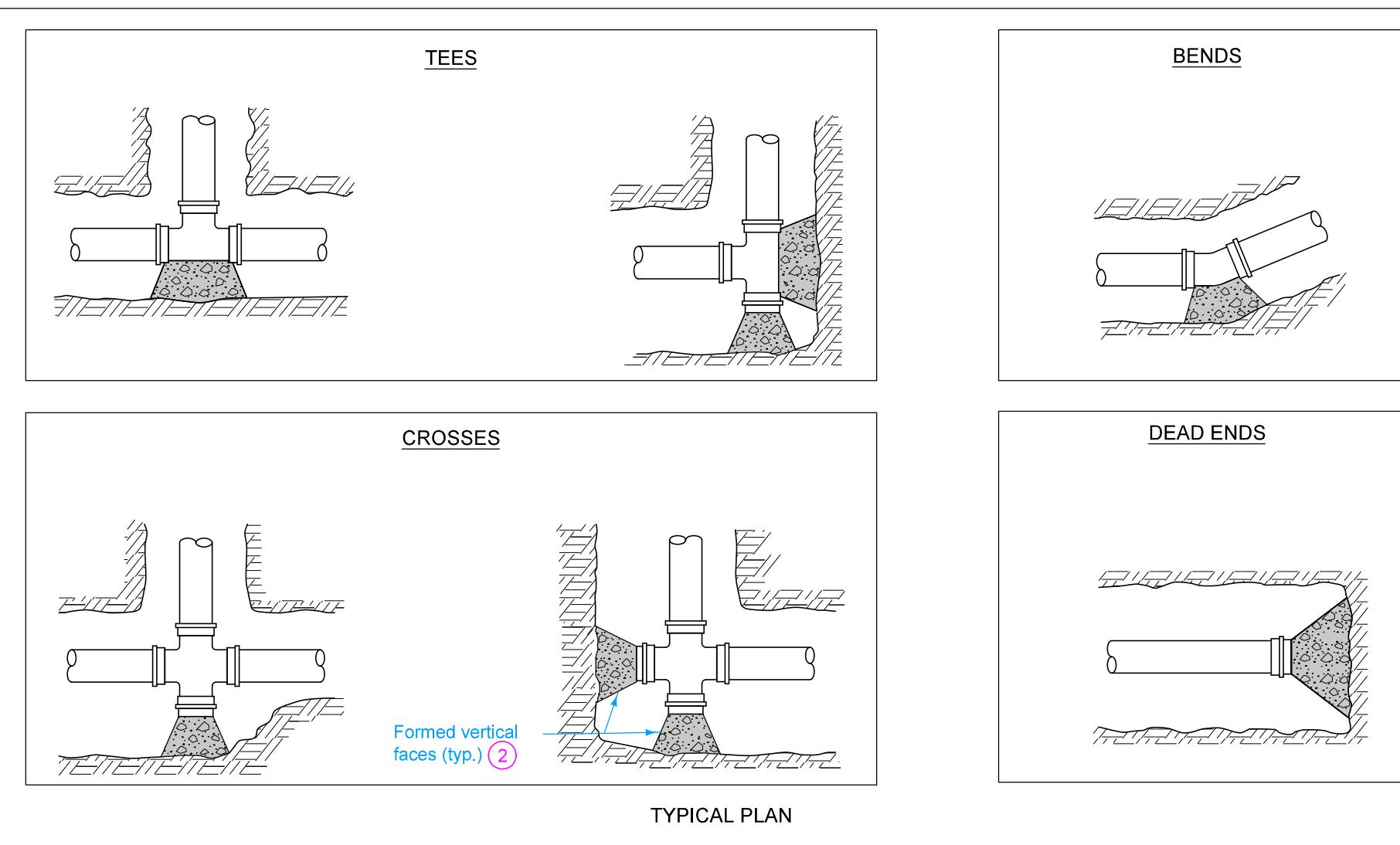


Encase all fittings in polyethylene wrap. Do not allow concrete to directly contact joints or fitting bolts.

- (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.

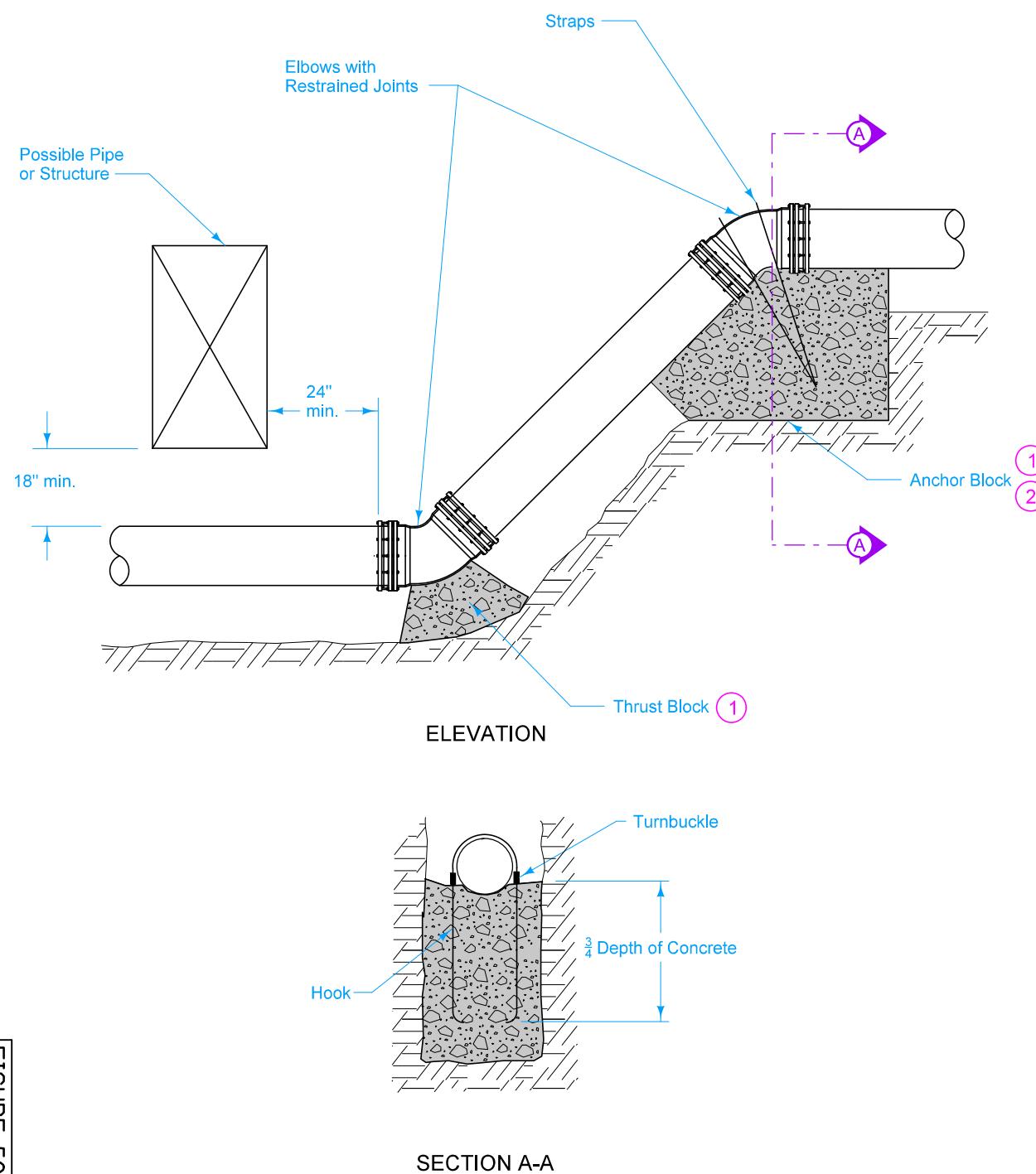


Diameter of Pipe, D (inches)	MINIMUM BEARING SURFACE (sf)				Tees and Dead Ends	
	Bends					
	$11\frac{1}{4}^{\circ}$	$22\frac{1}{2}^{\circ}$	$45^{\circ}$	$90^{\circ}$		
4	1	2	3	4	3	
6	2	3	5	8	6	
8	2	4	8	14	10	
10	3	6	12	21	15	
12	5	9	16	30	21	
14	6	11	22	40	28	
16	7	14	28	51	36	
18	9	18	35	64	45	
20	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.

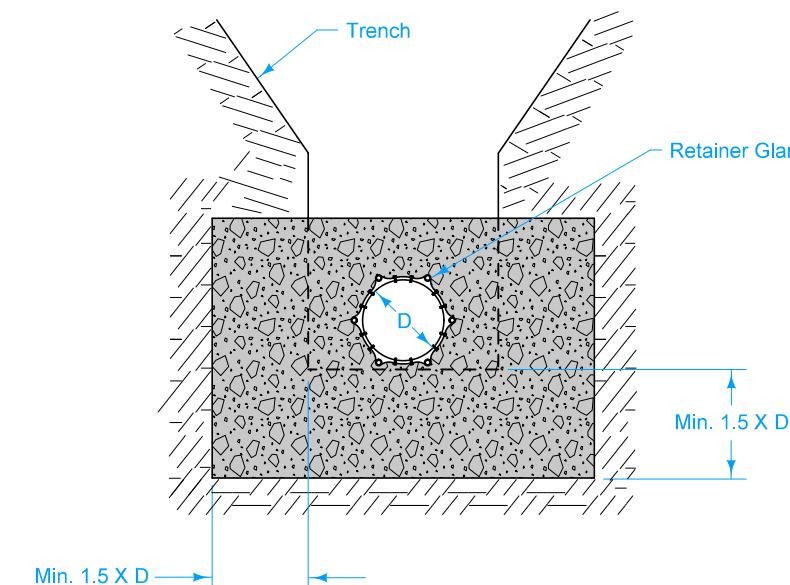
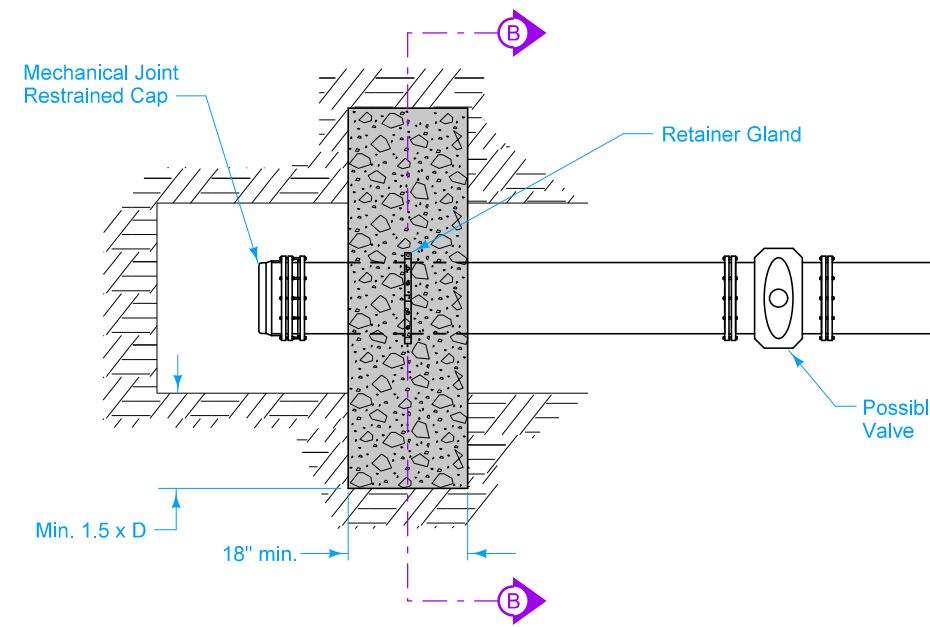
<b>SUDAS</b>	<b>INTERIM</b>	REVISION 2 01-01-26
<b>FIGURE 5010.101</b>	<b>STANDARD ROAD PLAN</b>	WM-101
SHEET 1 of 2		
REVISIONS: Updated table and notes to match SUDAS.		
<i>[Signature]</i> SUDAS DIRECTOR	<i>[Signature]</i> DESIGN METHODS ENGINEER	<i>[Signature]</i>
<b>THRUST BLOCKS</b>		

### CHANGES IN PIPE DEPTH



### DEAD ENDS (ALTERNATE METHOD)

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



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.

FIGURE 5010.101 SHEET 2 OF 2

SUDAS	REVISION 2 01-01-26
<b>INTERIM</b>	<b>WM-101</b>
FIGURE 5010.101	STANDARD ROAD PLAN
SHEET 2 of 2	
REVISIONS: Updated table and notes to match SUDAS.	
<i>[Signature]</i> SUDAS DIRECTOR	<i>[Signature]</i> DESIGN METHODS ENGINEER
<b>THRUST BLOCKS</b>	