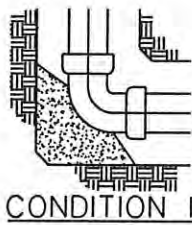
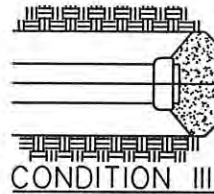


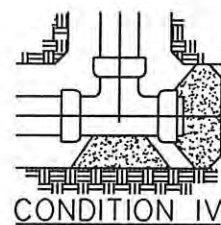
TEE



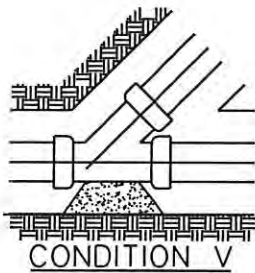
90° BEND



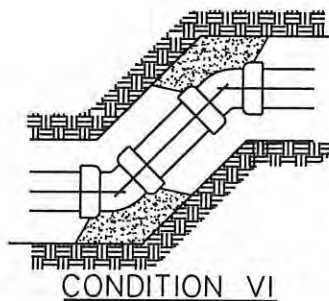
CAP OR PLUG



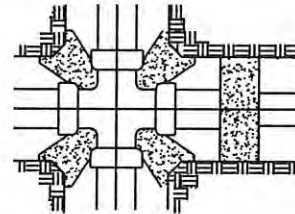
TEE & PLUG



45° LATERAL



(A) 22.5° OR 11.25° BEND  
(B) 45° & 11.25° BEND



CROSS & REDUCER

**NOTES:**

1. PIPE FITTINGS SHALL BE WRAPPED WITH 1 LAYER OF 10 MIL POLYETHYLENE SHEETING TAPED IN PLACE. SEE SPECIFICATIONS.
2. THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL, OR APPROVED COMPACTED BACKFILL.
3. THRUST BLOCKS SHALL BE CLASS 560-C-3250 CONCRETE, UNLESS OTHERWISE SPECIFIED.
4. ALL BURIED BOLTS SHALL BE COATED WITH 2 COATS OF 3M CO. EC-244 OR PREVIOUSLY APPROVED EQUAL.

PIPE SIZE (IN INCHES)	- THRUST BLOCK BEARING AREA -							AREA IN SQ. FT.
	CONDITIONS							
	I.	II.	III.	IV.	V.	(A) VI.	(B) VII.	
4	2.7	3.8	2.7	2 @ 2.7	2.7	1.1	2.1	4 @ 3.8
6	5.6	7.9	5.6	2 @ 5.6	5.6	2.2	4.3	4 @ 7.9
8	9.6	13.6	9.6	2 @ 9.6	9.6	3.8	7.4	4 @ 13.6
10	14.5	20.5	14.5	2 @ 14.5	14.5	5.7	11.1	4 @ 20.5
12	20.5	29.0	20.5	2 @ 20.5	20.5	8.0	15.7	4 @ 29.0
14	27.6	39.0	27.6	2 @ 27.6	27.6	10.8	21.1	4 @ 39.0
16	35.7	50.4	35.7	2 @ 35.7	35.7	13.9	27.3	4 @ 50.4
18	44.8	63.4	44.8	2 @ 44.8	44.8	17.5	34.3	4 @ 63.4
20	55.0	77.7	55.0	2 @ 55.0	55.0	21.4	42.1	4 @ 77.7
24	78.4	110.9	78.4	2 @ 78.4	78.4	30.6	60.0	4 @ 110.9

BASED ON 100 P.S.I. PRESSURE AND ALLOWABLE BEARING PRESSURE OF 1000 P.S.F.



APPROVED: *Navid Basu* DATE: 3/8/2016

CITY OF SANTA ANA  
PUBLIC WORKS AGENCY

DATE		REVISION
9/28/01	A.F.	UPDATED
5/2/07	J.B.	UPDATED
8/12/09	R.R.	ADDED 11 1/4° BEND
6/4/13	J.A.	UPDATED INFORMATION

THRUST BLOCK INSTALLATION

STD. PLAN NUMBER  
1412