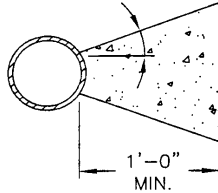


TYPICAL THRUST BLOCK BEND

TYPICAL THRUST BLOCK TEE OUTLET

TYPICAL THRUST BLOCK DEAD END

45° MAX. (TYP. FOR ALL ANGLES).



TYPICAL SECTION THRU THRUST BLOCK

NOTES:

1. ALL THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
2. RESTRAINT SYSTEM FOR VERTICAL PIPE BENDS SHALL BE APPROVED BY THE CITY ENGINEER.
3. THRUST RESTRAINT SYSTEMS FOR PIPES LARGER THAN 12" SHALL BE DESIGNED ON A CASE BY CASE BASIS AND SHALL BE APPROVED BY THE CITY ENGINEER.

THRUST BLOCK AREA REQUIRED		
FITTINGS	ALLOWABLE SOIL BEARING VALUE	
	1000 LBS. PER SQ. FT.	
6" LINE OR SMALLER	"A"	"B"
22 1/2"	1'-6"	1'-6"
45°	2'-0"	2'-0"
90°	3'-0"	2'-6"
TEE OUTLET	2'-6"	2'-0"
DEAD END	2'-6"	2'-0"
8" LINE		
22 1/2"	2'-0"	2'-0"
45°	3'-0"	2'-6"
90°	4'-0"	3'-0"
TEE OUTLET	3'-0"	3'-0"
DEAD END	3'-0"	3'-0"
10" LINE		
22 1/2"	3'-0"	2'-0"
45°	3'-6"	3'-0"
90°	5'-0"	4'-0"
TEE OUTLET	4'-0"	3'-6"
DEAD END	4'-0"	3'-6"
12" LINE		
22 1/2"	3'-0"	3'-0"
45°	4'-0"	4'-0"
90°	7'-0"	4'-0"
TEE OUTLET	5'-0"	4'-0"
DEAD END	5'-0"	4'-0"

REV. NO.	REV. DATE	REV. BY
3	10/7/93	SA
DIGITIZED		1/1/92
DWG. BY	RC	SCALE
CK. BY		NONE

THRUST BLOCK DETAILS

CITY OF STOCKTON
DEPARTMENT OF PUBLIC WORKS

REVISION APPROVED BY CITY ENGINEER	
<i>Finbar J. O'Regan</i>	
DATE: 01/09/02	
SUPERCEDES DWG. DATED	DRAWING NO.
7/1/89	100