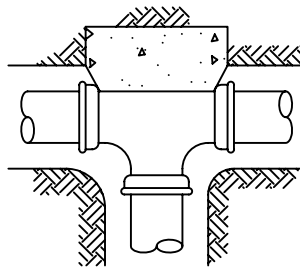
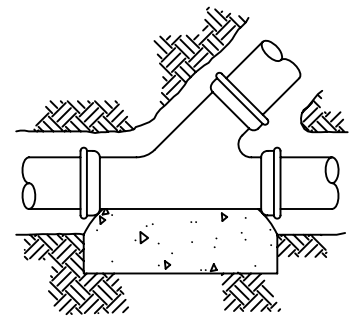


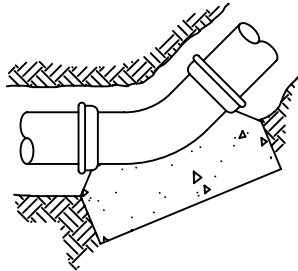
90° BEND



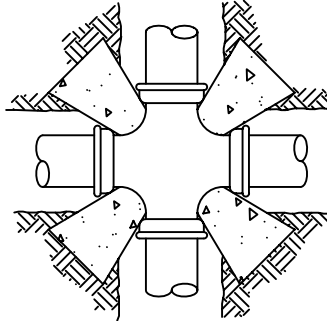
TEE



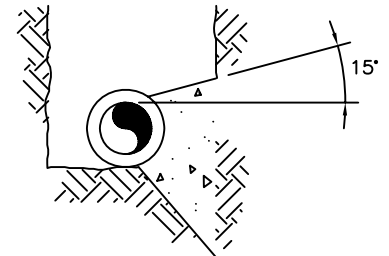
WYE



45° BEND



CROSS



TYPICAL SECTION THROUGH THRUST BLOCK

REQUIRED AREA FOR THRUST BLOCK (SQ. FT.)
BASED ON ALLOW. SOIL BEARING VALUE OF 2000 psf

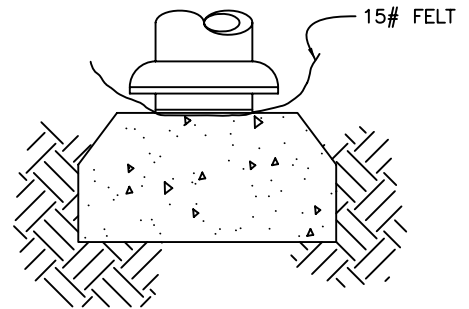
PIPE DIA.	90°	45° & WYE	22 1/2"	11 1/4"	B.O. & PLUG	TEE	CROSS
4	1.5	1.0	0.5	-	1.0	1.0	1.0
6	4.0	2.5	1.5	1.0	3.0	3.0	2.5
8	7.5	4.0	2.0	1.0	5.0	5.0	2.55
10	11.5	6.5	3.5	2.0	8.0	8.0	4.0
12	16.0	9.0	4.5	2.5	11.5	11.5	6.5
16	29.0	16.0	8.0	4.0	20.0	20.0	11.0
18	37.0	29.0	10.0	5.0	26.0	26.0	13.0

MULTIPLIERS FOR THRUST BLOCK AREAS

ACTUAL SOIL BEARING VALUE	MULTIPLIER
1000 psf	2.0
1500 psf	1.33
2000 psf	1.0
2500 psf	0.8
3000 psf	0.67

EXAMPLE

ACTUAL SOIL BEARING VALUE = 1000 psf
FOR 8" BLOW OFF
REQUIRED AREA IS (2.0)(5.0 SQ. FT.) = 10.0 SQ. FT.



PLUG

NOTES:

1. ALL THRUST BLOCKS TO BE PLACED AGAINST UNDISTURBED EARTH.
2. THRUST BLOCKS SHALL BE CLASS B CONCRETE.
3. 15# ROOFING FELT TO BE PLACED BETWEEN PLUG AND THRUST BLOCK CONCRETE.
4. SEVEN DAY CURE TIME REQUIRED PRIOR TO FILLING OR PRESSURING MAINS.
5. THRUST BLOCKS SHALL BE FORMED BEYOND UNDISTURBED EARTH.

REV. 09/06

Dublin San Ramon Services District

DATE
MAY 1987

CONCRETE THRUST BLOCKS

DESIGNED
RMR

SIGNED COPY ON FILE AT DISTRICT OFFICE

DRAWING
W-2