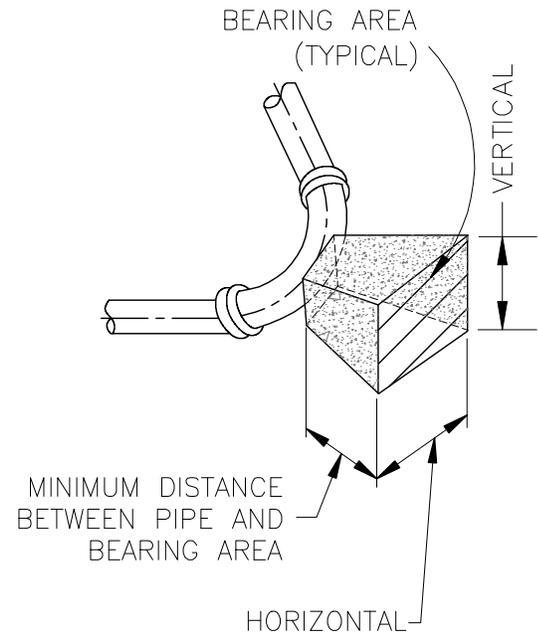


HORIZONTAL THRUST (LBS)  
MINIMUM BEARING AREA (SQUARE FEET)

FITTING SIZE	22 1/2 ° BEND		45 °BEND		90 °BEND		TEE OR DEAD END	
	THRUST	AREA	THRUST	AREA	THRUST	AREA	THRUST	AREA
4"	1,450	2	2,800	2	5,200	3	3,700	2
6"	2,900	2	5,800	3	10,700	6	7,600	4
8"	5,100	3	10,100	5	18,600	10	13,200	7
10"	8,300	5	16,500	8	30,400	16	21,500	12
12"	11,900	6	23,400	12	43,300	21	30,600	16
14"	16,100	8	31,800	16	58,700	30	41,500	21
16"	20,900	10	41,200	21	76,000	38	53,800	27
24"	-	-	-	-	-	-	-	-
30"	-	-	-	-	-	-	-	-

TYPICAL DIMENSIONS

BEARING AREA SQUARE FEET	HORIZ. FEET	VERT. FEET	MIN. DISTANCE FEET
2	2	1	1
3	2	1.5	1
4	2	2	1
5	2.5	2	1
6	3	2	1.25
7	3.5	2	1.5
8	4	2	1.7
10	5	2	2
16	5.3	3	2.25
21	6.4	3.3	2.75
27	7.2	3.75	3
30	7.5	4	3.5
38	9	4.5	3.5



NOTES:

- THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
- MINIMUM VOLUME OF THRUST BLOCK IS 3 CUBIC FEET.
- THE ABOVE TABLES ARE BASED ON A SOIL HAVING A BEARING VALUE OF 2000 PSF. FOR OTHER SOILS MUTIPLY THE BEARING AREA BY THE FOLLOWING FACTORS.

MUCK	0 PSF NOT ACCEPTABLE
SOFT CLAY	1000 PSF MULTIPLY BEARING AREA BY 2.0
SAND	2000 PSF NO ADJUSTMENT
SAND AND GRAVEL	3000 PSF MULTIPLY BEARING AREA BY 0.66
SAND AND GRAVEL CEMENTED WITH CLAY	4000 PSF MULTIPLY BEARING AREA BY 0.5

- THE ABOVE TABLES ARE BASED ON A TEST PRESSURE OF 200 PSI FOR OTHER PRESSURES ADJUST PROPORTIONATELY.

**Fair Oaks Water District**

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**FAIR OAKS  
WATER DISTRICT**

**THRUST BLOCK DETAILS**

APPROVED:  
M. NISENBOYM  
DRAWN BY  
T. EGGAR  
DRAWING  
**STD-1**  
REVISED  
AUG 2007  
SCALE  
N/A

**Standard Specifications**

**Standard Drawing 1**