

## NOTES

4. Provide two 1" (in) minimum diameter rods on valves up through 10" (in) diameter. Valves larger than 10" (in) require special tie rod design.

SIZE 4" 6" 8"

> 10" 12"

14" 16"

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1. Contractor to provide blocking adequate to withstand full test pressure.

2. Divide thrust by safe bearing load to determine required area (in square feet) of concrete to distribute load.

3. Areas to be adjusted for other pressure conditions.

Ξ	TEST PRESSURE (PSI)	THRUST AT FITTINGS IN POUNDS				
		Α	В	С	D	E
		TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
	250	3,140	4,440	2,405	1,225	615
	250	7,070	9,995	5,410	2,760	1,385
	250	12,565	17,770	9,620	4,905	2,465
	250	19,635	27,770	15,030	7,660	3,850
	250	28,275	39,985	21,640	11,030	5,545
	250	38,485	54,425	29,455	15,015	7,545
	250	50,265	71,085	38,470	19,615	9,855

SOIL TYPE	SAFE BEARING LOAD (PSF)	
MUCK, PEAT, ETC.	0	
SOFT CLAY	1,000	
SAND	2,000	
SAND AND GRAVEL	3,000	
AND AND GRAVEL CEMENTED WITH CLAY	4,000	
HARD SHALE	10,000	



## **CONCRETE THRUST BLOCK**

**STANDARD PLAN B-90.40-01** 

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION



STATE DESIGN ENGINEER

Washington State Department of Transportation