



MINIMUM THRUST BLOCK BEARING AREA (SQ. FT.) – SEE NOTE 2

TYPE OF FITTING	90° BEND	45° BEND	11¼° OR 22½° BEND	TEE OR DEAD END	TEE W/PLUG	CROSS W/PLUG	INLINE VALVE
SIZE OF PIPE	4"	2	1	1	2	2	1
	6"	4	4	2	4	4	2
	8"	7	4	2	5	7	2
	10"	12	6	3	8	12	3
	12"	16	10	5	12	16	5
	14"	20	12	6	14	20	6
	16"	27	15	8	18	27	8
	18"	45	25	13	32	45	13
	24"	65	35	18	48	65	18

NOTES:

- THRUST BLOCKS TO BE CONSTRUCTED OF 4000 PSI CONCRETE PER SECTION 202.04 OF THE SSPWC.
- MINIMUM AREAS GIVEN ARE FOR PRESSURE CLASS 235 PIPE AT TEST PRESSURE OF 150 P.S.I., WITH 2000 P.S.I. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF ENGINEER.
- BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
- JOINTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
- WRAP ALL FITTINGS WITH POLY WRAP PRIOR TO CONCRETE PLACEMENT.

NO.	REVISED	DATE	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	SECTION:	WASHOE	
			THRUST RESTRAINT	DRAWING NO:	WR-2.12	
				DATE:	8/12	PAGE: 25