



PREPARED BY



	CROSS W/ PLUG	TEE W/ PLUG	GATE VALVE	SIDE VIEW	VERTICAL BEND DOWN
TYPICAL INSTALLATION					
	90° BEND	45° BEND	11-1/4° OR 22-1/2° BEND	TEE OR DEAD END	BLANK

THRUST BLOCK BEARING AREA (SQ. FT.)								VERTICAL BEND DOWN CONCRETE VOLUME (CU. FT.)		
TYPE OF FITTING	90° BEND	45° BEND	11-1/4° 22-1/2° BEND	GATE VALVE	TEE W/PLUG	CROSS W/PLUG	TEE OR DEAD END	11-1/4° BEND	22-1/2° BEND	45° BEND
SIZE OF PIPE	4"	2	1	1	2	2	2	5	10	19
	6"	4	4	2	4	4	4	11	22	43
	8"	7	4	2	5	7	5	20	39	77
	10"	12	6	3	8	12	8	31	61	120
	12"	16	10	5	12	16	12	44	88	173
	14"	20	12	6	14	20	20	60	120	236
	16"	27	15	8	18	27	27	79	157	308
	18"	45	25	13	32	45	45	100	199	390
	24"	65	35	18	46	65	5	46	117	353

NOTES:

- THRUST BLOCKS TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (P.C.C.) WITH THE FOLLOWING CHARACTERISTICS: 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. PREMIX CONCRETE IS NOT ALLOWED.
- AREAS GIVEN ARE FOR TEST PRESSURES OF 150 PSI WITH 2000 PSF BEARING CAPACITY. INSTALLATIONS USING DIFFERENT TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF SVGID.
- THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
- WRAP VALVES/FITTINGS WITH 10 MILS POLYETHYLENE WRAP PER AWWA C105 TO SERVE AS BOND BREAKER. POUR THRUST BLOCK SO ACCESS TO FLANGES AND BOLTS IS NOT OBSTRUCTED.

SUN VALLEY GENERAL IMPROVEMENT DISTRICT

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THRUST BLOCK DETAIL

NOT TO SCALE

DRAWING

SV-7

9/30/20