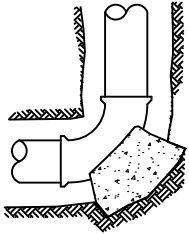
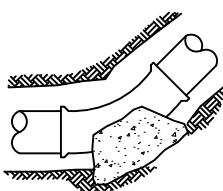
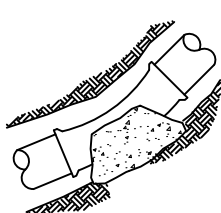
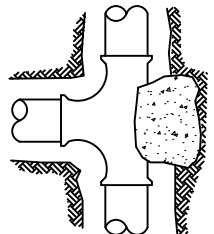
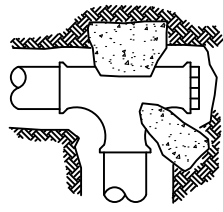
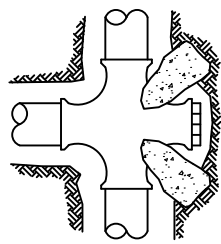
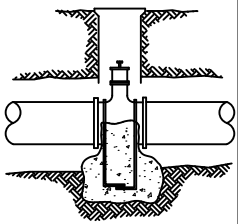
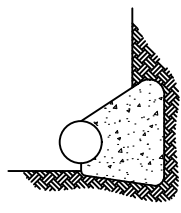
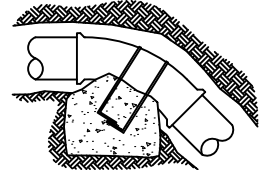


	90° BEND	45° BEND	11-1/4" OR 22-1/2" BEND	TEE OR DEAD END
TYPICAL INSTALLATION				

	CROSS W/ PLUG	TEE W/ PLUG	GATE VALVE	SIDE VIEW	VERTICAL BEND DOWN
TYPICAL INSTALLATION					

THRUST BLOCK BEARING AREA (SQ. FT.)								VERTICAL BEND DOWN VOLUME OF CONCRETE (CU. FT.)		
TYPE OF FITTING	90° BEND	45° BEND	11-1/4" OR 22-1/2" BEND	TEE OR DEAD END	CROSS W/ PLUG	TEE W/ PLUG	GATE VALVE	11-1/4" BEND	22-1/2" BEND	45° BEND
4"	2	1	1	2	2	2	2	5	10	19
6"	4	4	2	4	4	4	4	11	22	43
8"	7	4	2	5	7	7	5	20	39	77
10"	12	6	3	8	12	12	8	31	61	120
12"	16	10	5	12	16	16	12	44	88	173
14"	20	12	6	14	20	20	14	60	120	236
16"	27	15	8	18	27	27	18	79	157	308
18"	45	25	13	32	45	45	32	100	199	390
24"	65	35	18	46	65	65	46	117	353	692

NOTES:

- THRUST BLOCKS TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (P.C.C.) WITH THE FOLLOWING CHARACTERISTICS PER SSPWC SECTION 202.01.12: 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE, MAXIMUM WATER CEMENT RATIO OF 0.45, AIR ENTRAINMENT OF 6% $\pm$ 1.5%, MAXIMUM SLUMP 4-INCHES. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY CITY COUNCIL.
- AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURES OF 150 PSI WITH 2000 PSF SOIL BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL BY THE CITY ENGINEER.
- THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
- WRAP VALVES/FITTINGS WITH 8 MILS MIN. THICKNESS POLYETHYLENE WRAP TO SERVE AS BOND BREAKER. POUR THRUST BLOCK SO ACCESS TO FLANGES AND BOLTS IS NOT OBSTRUCTED.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.	
	RECLAIMED WATER THRUST BLOCK	S-513	
		APPROVED BY: JE	DATE: 1/2020