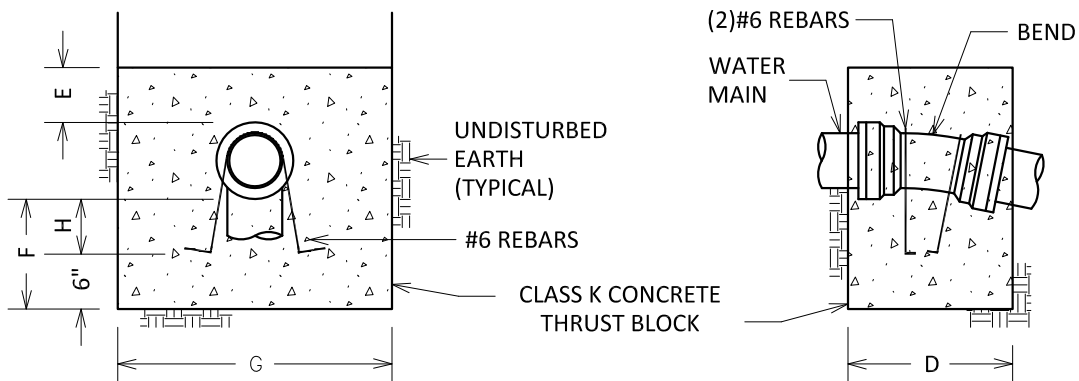
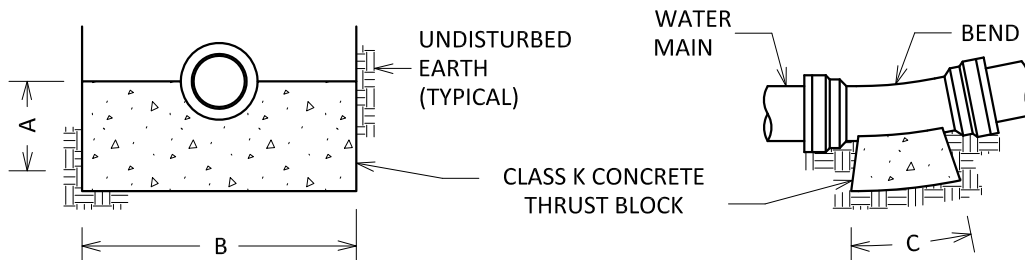


PIPE SIZE	BEND	TOP SECTION MINIMUM VOLUME CONCRETE	MINIMUM DIMENSIONS (IN FEET)							
			A	B	C	D	E	F	G	H
6"	11-1/4°	0.45 CY	1.0	2.5	1.0	2.0	1.0	1.0	2.5	0.5
	22-1/2°	0.85 CY	1.0	2.5	1.0	2.5	1.5	2.0	2.5	1.5
	45°	1.55 CY	1.0	2.5	1.5	4.0	1.5	2.0	2.5	1.5
	90°	2.20 CY	1.0	2.5	3.0	5.0	2.0	2.5	2.5	2.0
8"	11-1/4°	0.75 CY	1.0	2.7	1.0	2.0	1.0	2.0	3.0	1.5
	22-1/2°	1.50 CY	1.0	2.7	1.5	3.5	1.0	2.5	3.0	2.0
	45°	2.75 CY	1.0	2.7	2.5	5.0	1.5	2.5	3.5	2.0
	90°	3.85 CY	1.5	2.7	4.5	5.0	2.0	3.5	3.5	3.0
12"	11-1/4°	1.70 CY	1.0	3.0	1.5	3.5	1.5	2.0	3.0	1.5
	22-1/2°	3.35 CY	1.0	3.0	2.5	5.0	2.0	2.5	3.0	2.0
	45°	6.15 CY	1.5	3.0	4.5	6.5	2.5	4.0	3.5	3.5
	90°	8.70 CY	2.0	3.0	8.5	8.0	2.5	4.0	4.0	3.5



UPPER VERTICAL BEND



LOWER VERTICAL BEND

NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON HOLLY WATER MAIN PIPE LARGER THAN 12 INCHES.
2. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-8.

CITY OF ROCHESTER

VERTICAL
THRUST BLOCK
HOLLY SYSTEM

ISSUED	6-1-09	NON-STANDARD DWG.NO.S900-10
REVISED		