



TEES						
PIPE DIA. (IN)	D DIM.	L DIM.	H DIM.	W DIM.	CONC. VOLUME (YD <sup>3</sup> )	THRUST (LBF)
4	0'-6"	2'-4"	1'-2"	0'-11"	0.06	4,072
6	0'-8"	3'-4"	1'-8"	1'-4"	0.16	8,413
8	0'-9"	4'-5"	2'-3"	1'-10"	0.39	14,473
10	0'-11"	5'-5"	2'-9"	2'-3"	0.73	21,773
12	1'-1"	6'-5"	3'-3"	2'-8"	1.20	30,791
90° BENDS						
PIPE DIA. (IN)	D DIM.	L DIM.	H DIM.	W DIM.	CONC. VOLUME (YD <sup>3</sup> )	THRUST (LBF)
4	0'-5"	2'-9"	1'-5"	1'-2"	0.10	5,758
6	0'-8"	4'-0"	2'-0"	1'-8"	0.29	11,898
8	0'-9"	5'-3"	2'-8"	2'-3"	0.67	20,468
10	0'-11"	6'-5"	3'-3"	2'-9"	1.21	30,792
12	1'-1"	8'-7"	3'-10"	3'-3"	2.00	43,545
45° BENDS						
PIPE DIA. (IN)	D DIM.	L DIM.	H DIM.	W DIM.	CONC. VOLUME (YD <sup>3</sup> )	THRUST (LBF)
4	0'-4"	2'-0"	1'-0"	0'-10"	0.04	3,116
6	0'-7"	2'-11"	1'-6"	1'-2"	0.11	6,439
8	0'-8"	3'-10"	1'-11"	1'-7"	0.25	11,077
10	0'-11"	4'-9"	2'-5"	1'-11"	0.49	16,664
12	1'-1"	6'-7"	2'-10"	2'-3"	0.79	23,566
22½° BENDS						
PIPE DIA. (IN)	D DIM.	L DIM.	H DIM.	W DIM.	CONC. VOLUME (YD <sup>3</sup> )	THRUST (LBF)
4	0'-5"	1'-5"	0'-9"	0'-6"	0.01	1,589
6	0'-7"	2'-1"	1'-1"	0'-9"	0.04	3,283
8	0'-9"	2'-9"	1'-5"	1'-0"	0.09	5,647
10	0'-10"	3'-4"	1'-8"	1'-3"	0.16	8,495
12	1'-0"	4'-0"	2'-0"	1'-6"	0.28	12,014

**NOTES:**

- THRUST BLOCK DIMENSIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA.

WORKING PRESSURE = 150 PSI  
 SOIL BEARING CAPACITY = 1,500 PSF  
 SAFETY FACTOR = 1.5

THESE ARE THE MINIMUM DESIGN CRITERIA. IF ACTUAL WORKING PRESSURE IS GREATER THAN 150 PSI OR IF ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1,500 PSF, DIMENSIONS SHALL BE RECALCULATED.

- THRUST BLOCK CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
- THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
- A MINIMUM 10 MIL PLASTIC SHEET SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
- ALL BOLTS SHALL REMAIN ACCESSIBLE. DO NOT COVER WITH CONCRETE.



**HENRY COUNTY WATER & SEWERAGE AUTHORITY**

**THRUST BLOCK**

REVISED: 01/01/2012

SCALE: N.T.S.

DETAIL NO.

**W11**