



**DESIGN DATA**

1. DESIGN OF THRUST BLOCK IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE AND 250 PSI TEST PRESSURE. ACTUAL INSIDE DIAMETER OF DIP, CLASS 50 AS STD.
2. CONCRETE SHALL BE CLASS A, 3000 PSI. UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE HIGH EARLY.
3. ENGINEER SHALL VERIFY SOIL CONDITIONS BEFORE THRUST BLOCK DESIGN IS IMPLEMENTED.
4. USE OF THIS TYPE OF BLOCKING REQUIRES SPECIFIC APPROVAL OF THE INSPECTOR.

BEND DEGREES	SIZE INCHES	VOLUME CU YDS	"A" VERT BARS	BEND DEGREES	SIZE INCHES	VOLUME CU YDS	"A" VERT BARS
11 1/4 DEG	6"	0.3	2	45 DEG	6"	1.1	2
	8"	0.5	2		8"	1.9	2
	10"	0.8	2		10"	3.0	2
	12"	1.1	2		12"	4.3	2
	14"	1.5	4		14"	5.8	4
	16"	1.9	4		16"	7.6	4
22 1/2 DEG	20"	3.0	4	90 DEG	20"	11.9	4
	24"	4.4	4		24"	17.1	4
	6"	0.5	2		6"	2.0	2
	8"	1.0	2		8"	3.5	2
	10"	1.5	2		10"	5.5	2
	12"	2.2	2		12"	7.9	4
	14"	3.0	4		14"	10.8	4
	16"	3.9	4		16"	14.0	4
	20"	6.1	4		20"	21.9	4
	24"	8.7	4		24"	31.6	4

REVISIONS

**City of Cumming**  
 Department of Utilities - Distribution and Collection Division



**THRUST RESTRAINT  
 UPWARD THRUST (ENCASED)**

**W-28**