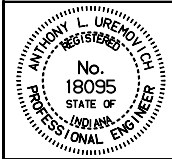


4:1 SLOPE							
PIPE SIZE	H	L	W	S	GRATE C		GRATE B
					No.	LENGTH	LENGTH
17 x 13	1'-6	6'-0	2'-0	6'-1	1	3'-8	1'-0
21 x 15	1'-8	6'-8	2'-0	6'-9	1	4'-0	1'-4
24 x 18	1'-11	7'-8	3'-0	7'-9	2	2'-8	1'-0
28 x 20	2'-1	8'-4	3'-0	8'-5	2	3'-0	1'-0
35 x 24	2'-5	9'-8	4'-0	9'-9	3	2'-4	1'-4
42 x 29	2'-10	11'-4	4'-0	11'-5	5	2'-0	-
49 x 33	3'-2	12'-8	5'-0	12'-9	5	2'-0	1'-4
57 x 38	3'-7	14'-4	5'-0	14'-5	6	2'-0	1'-0
64 x 43	4'-0	16'-0	6'-0	16'-5	9	1'-8	-
71 x 47	4'-4	17'-4	6'-0	17'-9	9	1'-8	1'-4

10:1 SLOPE							
PIPE SIZE	H	L	W	S	GRATE C		GRATE B
					No.	LENGTH	LENGTH
17 x 13	1'-6	15'-0	2'-0	14'-9	2	4'-0	3'-4
21 x 15	1'-8	16'-8	2'-0	16'-5	3	4'-0	1'-0
24 x 18	1'-11	19'-2	3'-0	19'-1	5	2'-6	2'-4
28 x 20	2'-1	20'-10	3'-0	20'-9	5	3'-0	2'-4
35 x 24	2'-5	24'-2	4'-0	24'-1	8	2'-4	2'-0
42 x 29	2'-10	28'-4	4'-0	28'-1	10	2'-4	1'-4
49 x 33	3'-2	31'-8	5'-0	31'-9	17	1'-8	-
57 x 38	3'-7	35'-10	5'-0	35'-9	23	1'-4	1'-8
64 x 43	4'-0	40'-0	6'-0	40'-1	22	1'-8	-
71 x 47	4'-4	43'-4	6'-0	43'-5	24	1'-8	-

6:1 SLOPE							
PIPE SIZE	H	L	W	S	GRATE C		GRATE B
					No.	LENGTH	LENGTH
17 x 13	1'-6	9'-0	2'-0	8'-9	1	4'-0	2'-8
21 x 15	1'-8	10'-0	2'-0	9'-9	1	4'-0	3'-8
24 x 18	1'-11	11'-6	3'-0	11'-5	3	2'-8	1'-4
28 x 20	2'-1	12'-6	3'-0	12'-5	3	3'-0	1'-4
35 x 24	2'-5	14'-6	4'-0	14'-5	5	2'-0	2'-4
42 x 29	2'-10	17'-0	4'-0	17'-1	7	2'-0	1'-0
49 x 33	3'-2	19'-0	5'-0	19'-1	8	2'-0	1'-0
57 x 38	3'-7	21'-6	5'-0	21'-5	9	2'-0	1'-4
64 x 43	4'-0	24'-0	6'-0	24'-1	12	1'-8	2'-0
71 x 47	4'-4	26'-0	6'-0	26'-1	18	1'-4	-

APPROXIMATE QUANTITIES									
PIPE Size	4:1 SLOPE			6:1 SLOPE			10:1 SLOPE		
	Str. Steel, lb.	Conc., cys	Reinf. Steel, lb.	Str. Steel, lb.	Conc., cys	Reinf. Steel, lb.	Str. Steel, lb.	Conc., cys	Reinf. Steel, lb.
17 x 13	355	1.2	305	495	1.6	415	820	2.5	640
21 x 15	385	1.3	335	540	1.8	460	910	2.8	715
24 x 18	605	1.8	440	875	2.5	610	1445	3.9	935
28 x 20	645	2.0	465	940	2.7	645	1545	4.2	1020
35 x 24	975	2.7	615	1435	3.7	855	2375	5.8	1325
42 x 29	1145	3.1	700	1710	4.4	995	2750	6.9	1570
49 x 33	1520	4.0	880	2270	5.6	1230	3825	8.9	1960
57 x 38	1715	4.5	985	2525	6.4	1400	4400	10.2	2245
64 x 43	2295	5.7	1210	3335	8.1	1725	5560	12.9	2755
71 x 47	2470	6.2	1310	3735	8.9	1880	6005	14.2	3015

INDIANA DEPARTMENT OF TRANSPORTATION	
GRATED BOX END SECTION TYPE II	
DIMENSIONS AND QUANTITIES	
JANUARY 1999	
STANDARD DRAWING NO. E 715-GBTT-06	
	DETAILS PLACED IN THIS FORMAT 11-15-99 /s/ Anthony L. Uremovich 11-15-99 DESIGN STANDARDS ENGINEER DATE
	/s/ Firooz Zandi 11-15-99 CHIEF HIGHWAY ENGINEER DATE ORIGINALLY APPROVED 1-04-99