

METAL END SECTIONS FOR CIRCULAR PIPES									
Pipe Dia.	Min. Thick.	Dimensions, in.				L Dimensions			
		A	H	W	Overall Width	Slope	Length (in.)	Slope	Length (in.)
15	.064	8	6	37	37	4:1	20	6:1	30
18	.064	8	6	40	40	4:1	32	6:1	48
21	.064	8	6	43	43	4:1	44	6:1	66
24	.064	8	6	46	46	4:1	56	6:1	84
30	.109	12	9	60	60	4:1	80	6:1	120
36	.109	12	9	66	66	4:1	104	6:1	156
42	.109	16	12	80	80	4:1	128	6:1	192
48	.109	16	12	86	86	4:1	152	6:1	228
54	.109	16	12	92	92	4:1	176	6:1	264
60	.109	16	12	66	98	4:1	200	6:1	300

SAFETY METAL END SECTIONS FOR PIPE-ARCHES											
Equiv. Dia. (in.)	Span		Min. Thick in.	Dimensions, in.				L Dimensions			
	Rise	Span		A	H	W	Overall Width	Slope	Length (in.)	Slope	Length (in.)
	18	21	15	.064	8	6	27	43	4:1	20	6:1
21	24	18	.064	8	6	30	46	4:1	32	6:1	48
24	28	20	.064	8	6	34	50	4:1	40	6:1	60
30	35	24	.079	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	16	12	77	109	4:1	148	6:1	222
72	83	57	.109	16	12	89	121	4:1	188	6:1	282

INDIANA DEPARTMENT OF TRANSPORTATION
SAFETY METAL CULVERT END SECTIONS FOR CORRUGATED PIPE
 JANUARY 1998
 STANDARD DRAWING NO. E 715-SMES-06
 DETAILS PLACED IN THIS FORMAT 11-15-98
 L. URENOY
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 DESIGN STANDARDS ENGINEER
 /s/ Fyroz Zaidi
 CHIEF HIGHWAY ENGINEER
 11-15-98
 DATE
 1-02-98