

METAL END SECTIONS FOR CONC. OR METAL CIRCULAR PIPE	PIPE DIA. (IN.)	MIN. THICK. IN INCHES	DIMENSIONS				L DIMENSIONS ①						CONCRETE CU. YDS.
			A	H	W	OVERALL WIDTH	SLOPE	LENGTH	SLOPE	LENGTH	SLOPE	LENGTH	
15 ②	0.064	8"	6"	21"	3'-1"	4:1	1'-8"	6:1	2'-6"	10:1	5'-10"	0.15	
18 ②	0.064	8"	6"	24"	3'-4"	4:1	2'-8"	6:1	4'-0"	10:1	8'-4"	0.16	
21 ②	0.064	8"	6"	27"	3'-7"	4:1	3'-8"	6:1	5'-6"	10:1	10'-10"	0.18	
24 ②	0.064	8"	6"	30"	3'-10"	4:1	4'-8"	6:1	7'-0"	10:1	13'-4"	0.19	
30	0.109	12"	9"	36"	5'-0"	4:1	6'-8"	6:1	10'-0"			0.25	
36	0.109	12"	9"	42"	5'-6"	4:1	8'-8"	6:1	13'-0"			0.27	
42	0.109	16"	12"	48"	6'-8"	4:1	10'-8"	6:1	16'-0"			0.33	
48	0.109	16"	12"	54"	7'-2"	4:1	12'-8"	6:1	19'-0"			0.35	
54	0.109	16"	12"	60"	7'-8"	4:1	14'-8"	6:1	22'-0"			0.38	
60	0.109	16"	12"	66"	8'-2"	4:1	16'-8"	6:1	25'-0"			0.40	

- ~ NOTES ~
- ① DIMENSIONAL TOLERANCE +1" -0"
- ② FOR METAL END SECTIONS WITH A SLOPE OF 10:1 USE A METAL THICKNESS OF .109" MIN.

METAL END SECTIONS FOR METAL ARCHED PIPE	EQUV. DIA. (IN.)	SPAN (IN.)	RISE (IN.)	MIN. THICK. IN INCHES	DIMENSIONS				L DIMENSIONS ①						CONCRETE CU. YDS.
					A	H	W	OVERALL WIDTH	SLOPE	LENGTH	SLOPE	LENGTH	SLOPE	LENGTH	
18 ②	21	15	15	.064	8"	6"	27"	3'-7"	4:1	1'-8"	6:1	2'-6"	10:1	5'-10"	0.18
21 ②	24	18	18	.064	8"	6"	30"	3'-10"	4:1	2'-8"	6:1	4'-0"	10:1	8'-4"	0.19
24 ②	28	20	20	.064	8"	6"	34"	4'-2"	4:1	3'-4"	6:1	5'-0"	10:1	10'-0"	0.21
30	35	24	24	.079	12"	9"	41"	5'-5"	4:1	4'-8"	6:1	7'-0"			0.27
36	42	29	29	.109	12"	9"	48"	6'-0"	4:1	6'-4"	6:1	9'-6"			0.30
42	49	33	33	.109	16"	12"	55"	7'-3"	4:1	7'-8"	6:1	11'-6"			0.36
48	57	38	38	.109	16"	12"	63"	7'-11"	4:1	9'-4"	6:1	14'-0"			0.39
54	64	43	43	.109	16"	12"	70"	8'-6"	4:1	11'-0"	6:1	16'-6"			0.42
60	71	47	47	.109	16"	12"	77"	9'-1"	4:1	12'-4"	6:1	18'-6"			0.45
72	83	57	57	.109	16"	12"	89"	10'-1"	4:1	15'-8"	6:1	23'-6"			0.50

METAL END SECTIONS FOR CONCRETE ELLIPTICAL PIPE	EQUV. DIA. (IN.)	SPAN (IN.)	RISE (IN.)	MIN. THICK. IN INCHES	DIMENSIONS				L DIMENSIONS				CONCRETE CU. YDS.
					A	H	W	OVERALL WIDTH	SLOPE	LENGTH	SLOPE	LENGTH	
18	23	14	14	.064	8"	6"	29"	3'-9"	4:1	1'-4"	6:1	2'-0"	0.19
24	30	19	19	.064	8"	6"	36"	4'-4"	4:1	3'-0"	6:1	4'-6"	0.21
30	38	24	24	.079	12"	9"	44"	5'-8"	4:1	4'-8"	6:1	7'-0"	0.28
36	45	29	29	.109	16"	12"	51"	6'-11"	4:1	6'-4"	6:1	9'-6"	0.34
42	53	34	34	.109	16"	12"	59"	7'-7"	4:1	8'-0"	6:1	12'-0"	0.37
48	60	38	38	.109	16"	12"	66"	8'-2"	4:1	9'-4"	6:1	14'-0"	0.40
54	68	43	43	.109	16"	12"	74"	8'-10"	4:1	11'-0"	6:1	16'-6"	0.44
60	76	48	48	.109	16"	12"	80"	9'-4"	4:1	12'-8"	6:1	19'-0"	0.46

USE WITH CUR. STD. DWGS.  
RDB-150, RDB-155

KENTUCKY  
DEPARTMENT OF HIGHWAYS

DIMENSIONS FOR  
METAL END SECTIONS

STANDARD DRAWING NO. RDB-160-02

SUBMITTED *William S. Hall* 12-01-15  
DATE  
APPROVED *[Signature]* 12-01-15  
DATE  
STATE HIGHWAY ENGINEER