

2:1 SLOPE

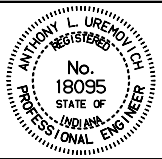
Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	3'-6"	2'-0"	3'-11"	1	5'-0 ⁷ / ₈ "	-	-	4'-7"	-
21 x 15	1'-11"	3'-10"	2'-0"	4'-3 ¹ / ₂ "	1	5'-5 ³ / ₈ "	-	-	4'-11 ³ / ₈ "	-
24 x 18	2'-2"	4'-4"	3'-0"	4'-10 ¹ / ₈ "	2	6'-0 ¹ / ₈ "	-	-	5'-6 ¹ / ₈ "	-
28 x 20	2'-4"	4'-8"	3'-0"	5'-2 ¹ / ₂ "	2	6'-4 ³ / ₈ "	-	-	5'-10 ³ / ₈ "	-
35 x 24	2'-8"	5'-4"	4'-0"	5'-11 ¹ / ₂ "	3	7'-1 ¹ / ₂ "	-	-	6'-7 ¹ / ₂ "	-
42 x 29	3'-1"	6'-2"	4'-0"	6'-10 ³ / ₄ "	3	8'-0 ³ / ₄ "	-	-	7'-6 ³ / ₄ "	-
49 x 33	3'-5"	6'-10"	5'-0"	7'-7 ³ / ₈ "	3	8'-9 ³ / ₈ "	-	-	8'-3 ³ / ₈ "	-
57 x 38	3'-10"	7'-8"	5'-0"	8'-6 ¹ / ₈ "	3	9'-8 ¹ / ₈ "	-	-	9'-2 ¹ / ₈ "	-
64 x 43	4'-3"	8'-6"	6'-0"	9'-6"	4	10'-8"	-	-	10'-2"	-
71 x 47	4'-7"	9'-2"	6'-0"	10'-3"	4	11'-5"	-	-	10'-11"	-

3:1 SLOPE

Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	5'-3"	2'-0"	5'-6 ³ / ₈ "	1	6'-11 ¹ / ₂ "	1	2'-7 ¹ / ₂ "	5'-0 ³ / ₈ "	1'-6"
21 x 15	1'-11"	5'-9"	2'-0"	6'-0 ³ / ₈ "	1	7'-5 ³ / ₈ "	1	2'-7 ¹ / ₂ "	5'-0 ³ / ₈ "	2'-0"
24 x 18	2'-2"	6'-6"	3'-0"	6'-10 ¹ / ₄ "	2	8'-3 ¹ / ₄ "	-	-	7'-10 ¹ / ₄ "	-
28 x 20	2'-4"	7'-0"	3'-0"	7'-4 ¹ / ₂ "	2	8'-9 ³ / ₈ "	-	-	8'-4 ¹ / ₂ "	-
35 x 24	2'-8"	8'-0"	4'-0"	8'-5 ¹ / ₄ "	3	9'-10 ¹ / ₄ "	-	-	9'-5 ¹ / ₄ "	-
42 x 29	3'-1"	9'-3"	4'-0"	9'-9"	3	11'-2"	-	-	10'-9"	-
49 x 33	3'-5"	10'-3"	5'-0"	10'-9 ³ / ₈ "	3	12'-2 ³ / ₄ "	-	-	11'-9 ³ / ₈ "	-
57 x 38	3'-10"	11'-6"	5'-0"	12'-1 ¹ / ₂ "	3	13'-6 ¹ / ₂ "	1	5'-7 ¹ / ₂ "	10'-1 ¹ / ₂ "	3'-0"
64 x 43	4'-3"	12'-9"	6'-0"	13'-5 ¹ / ₄ "	4	14'-10 ³ / ₈ "	1	6'-7 ¹ / ₂ "	11'-5 ¹ / ₄ "	3'-0"
71 x 47	4'-7"	13'-9"	6'-0"	14'-5 ¹ / ₈ "	4	15'-11"	1	6'-7 ¹ / ₂ "	12'-5 ¹ / ₈ "	3'-0"

4:1 SLOPE

Pipe Size	H	L	W	Longitudinal Pipe			Cross Tube			
				S	No.	Length	No.	Length	S 1	S 2
17 x 13	1'-9"	7'-0"	2'-0"	7'-2 ³ / ₈ "	1	8'-11 ¹ / ₄ "	1	2'-7 ¹ / ₂ "	5'-9 ³ / ₈ "	2'-9"
21 x 15	1'-11"	7'-8"	2'-0"	7'-10 ¹ / ₈ "	1	9'-7 ¹ / ₂ "	1	2'-7 ¹ / ₂ "	5'-8 ¹ / ₈ "	3'-6"
24 x 18	2'-2"	8'-8"	3'-0"	8'-11 ¹ / ₄ "	2	10'-7 ³ / ₈ "	1	3'-7 ¹ / ₂ "	8'-3 ¹ / ₄ "	2'-0"
28 x 20	2'-4"	9'-4"	3'-0"	9'-7 ¹ / ₂ "	2	11'-4"	1	3'-7 ¹ / ₂ "	8'-11 ¹ / ₂ "	2'-0"
35 x 24	2'-8"	10'-8"	4'-0"	11'-0"	3	12'-8 ¹ / ₂ "	-	-	12'-4"	-
42 x 29	3'-1"	12'-4"	4'-0"	12'-8 ¹ / ₂ "	3	14'-5 ¹ / ₈ "	1	4'-7 ¹ / ₂ "	11'-0 ¹ / ₂ "	3'-0"
49 x 33	3'-5"	13'-8"	5'-0"	14'-1"	3	15'-9 ³ / ₈ "	1	5'-7 ¹ / ₂ "	12'-5"	3'-0"
57 x 38	3'-10"	15'-4"	5'-0"	15'-9 ³ / ₈ "	3	17'-6 ¹ / ₄ "	1	5'-7 ¹ / ₂ "	12'-7 ³ / ₈ "	4'-6"
64 x 43	4'-3"	17'-0"	6'-0"	17'-6 ¹ / ₄ "	4	19'-2 ¹ / ₈ "	1	6'-7 ¹ / ₂ "	12'-4 ¹ / ₄ "	6'-6"
71 x 47	4'-7"	18'-4"	6'-0"	18'-10 ¹ / ₄ "	4	20'-7 ³ / ₈ "	1	6'-7 ¹ / ₂ "	12'-8 ¹ / ₄ "	7'-6"

INDIANA DEPARTMENT OF TRANSPORTATION	
GRATED BOX END SECTION	
TYPE I DIMENSIONS	
JANUARY 1999	
STANDARD DRAWING NO.E 715-GBT0-06	
	DETAILS PLACED IN THIS FORMAT 11-15-99 /s/ Anthony L. Uremovich 11-15-99 DESIGN STANDARDS ENGINEER DATE
/s/ Firooz Zandi CHIEF HIGHWAY ENGINEER	11-15-99 DATE
DESIGN STANDARDS ENGINEER	ORIGINALLY APPROVED 1-04-99