

CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 14 x 12 REINFORCED CONCRETE BOX BRIDGE																																						
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	No.	No.	No.						
No Fill	10.5	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	4	2	6	30.50	8	1	12	30.50	4	2	12	12.00	6	2	12	12.00	5	2	12	12.00	162	28	6	2.72	625
3	11	10	8	8	30.00	7	2	6	29.50	6	2	6	29.50	7	1	12	30.50	7	2	6	30.50	4	2	12	12.00	8	2	12	12.00	5	2	12	12.00	162	28	6	2.86	718
5	11	11	9	8	30.17	10	1	12	29.66	8	1	12	29.66	5	2	6	30.66	10	1	12	30.66	4	2	12	12.00	8	2	12	12.00	5	2	12	12.00	192	0	6	3.04	715
10	12	14	10	8	30.33	11	1	12	29.83	8	1	12	29.83	8	1	12	30.83	11	1	12	30.83	4	2	12	12.00	9	2	12	12.00	5	2	12	12.00	192	0	6	3.51	815
20	15	17	12	8	30.67	4	2	12	14.66	9	2	6	30.16	9	2	6	31.16	4	2	12	14.66	4	2	12	12.00	9	2	12	12.00	5	2	12	12.00	192	0	6	4.26	786
30	22	24	15	8	31.17	4	2	12	14.66	9	2	6	30.66	9	2	6	31.66	4	2	12	14.66	4	2	12	12.00	6	4	6	12.00	5	2	12	12.00	196	0	6	5.90	787
40	28	30	17	8	31.50	4	2	12	14.66	9	2	6	31.00	9	2	6	32.00	4	2	12	14.66	4	2	12	12.00	8	2	12	12.00	6	2	12	12.00	196	0	6	7.28	794
50	32	34	19	8	31.83	4	2	12	14.66	9	2	6	31.33	9	2	6	32.33	4	2	12	14.66	4	2	12	12.00	8	2	12	12.00	7	2	12	12.00	196	0	6	8.29	812
60	35	38	21	8	32.17	4	2	12	14.66	9	2	6	31.66	9	2	6	32.66	4	2	12	14.66	4	2	12	12.00	8	2	12	12.00	8	2	12	12.00	200	0	6	9.31	834

2 @ 14 x 13 REINFORCED CONCRETE BOX BRIDGE																																						
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	No.	No.	No.						
No Fill	10.5	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	6	1	12	30.50	8	1	12	30.50	4	2	12	13.00	8	1	12	13.00	4	4	6	13.00	168	28	6	2.80	679
3	11	10	9	8	30.17	7	2	6	29.66	6	2	6	29.66	7	1	12	30.66	7	2	6	30.66	4	2	12	13.00	8	2	12	13.00	4	4	6	13.00	168	28	6	3.02	740
5	11	11	9	8	30.17	10	1	12	29.66	8	1	12	29.66	8	1	12	30.66	10	1	12	30.66	4	2	12	13.00	9	2	12	13.00	4	4	6	13.00	198	0	6	3.12	773
10	12	14	10	8	30.33	11	1	12	29.83	8	1	12	29.83	8	1	12	30.83	11	1	12	30.83	4	2	12	13.00	11	2	12	13.00	4	4	6	13.00	198	0	6	3.60	886
20	15	18	13	8	30.83	4	2	12	14.66	9	2	6	30.33	9	2	6	31.33	4	2	12	14.66	4	2	12	13.00	7	4	6	13.00	4	4	6	13.00	198	0	6	4.56	828
30	22	25	16	8	31.33	4	2	12	14.66	9	2	6	30.83	9	2	6	31.83	4	2	12	14.66	4	2	12	13.00	9	2	12	13.00	4	4	6	13.00	202	0	6	6.22	820
40	28	30	18	8	31.67	4	2	12	14.66	9	2	6	31.16	9	2	6	32.16	4	2	12	14.66	4	2	12	13.00	9	2	12	13.00	6	2	12	13.00	202	0	6	7.52	829
50	32	34	21	8	32.17	4	2	12	14.66	9	2	6	31.66	9	2	6	32.66	4	2	12	14.66	4	2	12	13.00	6	4	6	13.00	7	2	12	13.00	206	0	6	8.66	843
60	36	38	23	8	32.50	4	2	12	14.66	9	2	6	32.00	9	2	6	33.00	4	2	12	14.66	4	2	12	13.00	6	4	6	13.00	8	2	12	13.00	206	0	6	9.70	864

2 @ 14 x 14 REINFORCED CONCRETE BOX BRIDGE																																						
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	No.	No.	No.						
No Fill	10.5	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	6	1	12	30.50	8	4	6	30.50	4	2	12	14.00	9	2	12	14.00	6	2	12	14.00	174	28	6	2.87	727
3	11	10	9	8	30.17	7	2	6	29.66	6	2	6	29.66	7	1	12	30.66	7	2	6	30.66	4	2	12	14.00	9	2	12	14.00	6	2	12	14.00	174	28	6	3.10	779
5	11	11	10	8	30.33	10	1	12	29.83	8	1	12	29.83	8	1	12	30.83	10	1	12	30.83	4	2	12	14.00	9	2	12	14.00	6	2	12	14.00	204	0	6	3.30	795
10	12	15	11	8	30.50	11	1	12	30.00	8	1	12	30.00	8	1	12	31.00	10	1	12	31.00	4	2	12	14.00	11	2	12	14.00	6	2	12	14.00	204	0	6	3.88	881
20	15	18	14	8	31.00	4	2	12	14.66	9	2	6	30.50	9	2	6	31.50	4	2	12	14.66	4	2	12	14.00	10	2	12	14.00	6	2	12	14.00	208	0	6	4.76	861
30	22	25	17	8	31.50	4	2	12	14.66	9	2	6	31.00	9	2	6	32.00	4	2	12	14.66	4	2	12	14.00	7	4	6	14.00	6	2	12	14.00	208	0	6	6.46	861
40	28	30	20	8	32.00	4	2	12	14.66	9	2	6	31.50	9	2	6	32.50	4	2	12	14.66	4	2	12	14.00	9	2	12	14.00	6	2	12	14.00	212	0	6	7.89	852
50	32	34	22	8	32.33	4	2	12	14.66	9	2	6	31.83	9	2	6	32.83	4	2	12	14.66	4	2	12	14.00	7	4	6	14.00	7	2	12	14.00	212	0	6	8.93	891
60	36	33	24	8	32.67	4	2	12	14.66	9	2	6	32.16	9	2	6	33.16	4	2	12	14.66	4	2	12	14.00	7	4	6	14.00	8	2	12	14.00	212	0	6	9.99	913

Note: Maximum fill height shown in the table is measured from the bottom of the top slab. To obtain the total fill height from the flow line, add the height of the box.  
 Note: When top slab is the riding surface (No Fill), the concrete cover to the top mat of reinforcing shall be 2-1/2 inches.

The following bar information applies to all fill cases in the table above:  
 Bars LNT Size = 4 Spacing = 12 in.  
 Bars LND Size = 5 Spacing = 12 in.  
 Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-15-4.  
 STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 STANDARD REINFORCED CONCRETE BOX BRIDGE  
 INTERIOR SECTION  
 SPANS: 2 BARRELS AT 14'-0"  
 CLEAR HEIGHTS 12'-0" THRU 14'-0"  
 0' THRU 60' FILL  
 2000  
 CORRECT *Edward F. Wasserman*  
 ENGINEER OF STRUCTURES  
 STD-15-64

DESIGNED BY: STEPHANIE HASTINGS  
 DRAWN BY: KEVIN MARTINKO  
 SUPERVISED BY: FIELDS & HOLLORAN  
 CHECKED BY: STEPHANIE HASTINGS  
 DATE: 12-99  
 DATE: 3-00  
 DATE: 3-00  
 DATE: 6-00