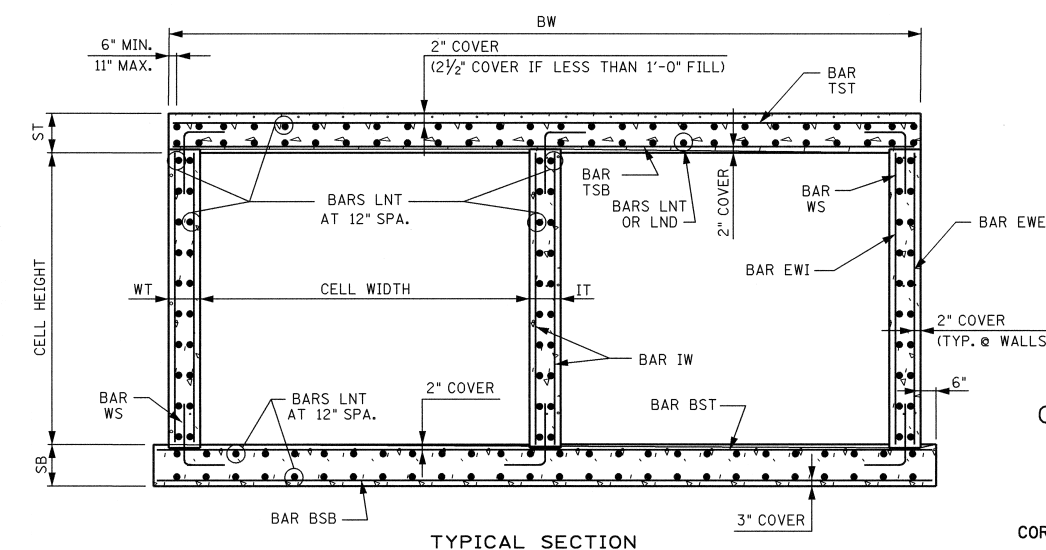


CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
	2010		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 18 x 12 REINFORCED CONCRETE BOX BRIDGE																																						
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars IW			Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF	
	ST	SB	WT	IT	BW	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	12.5	12	8	8	38.00	7	2	6	37.50	8	2	6	37.50	6	2	6	38.50	8	2	6	38.50	4	2	12	12.00	7	2	12	12.00	5	2	12	12.00	188	72	6	3.80	1019
3	15	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	12.00	7	4	6	12.00	5	2	12	12.00	188	72	6	4.45	1054
5	16	16	9	8	38.17	8	2	6	37.67	7	2	6	37.67	8	1	12	38.67	8	2	6	38.67	4	2	12	12.00	7	4	6	12.00	5	2	12	12.00	226	0	6	4.78	1035
10	20	20	10	8	38.33	9	2	6	37.83	7	2	6	37.83	9	1	12	38.83	9	2	6	38.83	4	2	12	12.00	7	4	6	12.00	5	2	12	12.00	226	0	6	5.83	1178
20	20	21	12	8	38.67	4	2	12	18.66	11	2	6	38.17	10	2	6	39.17	4	2	12	18.66	4	2	12	12.00	8	4	6	12.00	5	2	12	12.00	226	0	6	6.14	1193
30	29	30	15	8	39.17	4	2	12	18.66	10	2	6	38.67	10	2	6	39.67	4	2	12	18.66	4	2	12	12.00	7	4	6	12.00	6	2	12	12.00	230	0	6	8.63	1108
40	36	37	17	8	39.50	4	2	12	18.66	10	2	6	39.00	10	2	6	40.00	4	2	12	18.66	4	2	12	12.00	7	4	6	12.00	5	4	6	12.00	230	0	6	10.57	1128
50	41	42	19	9	39.92	4	2	12	18.66	10	2	6	39.42	10	2	6	40.42	4	2	12	18.66	4	2	12	12.00	7	4	6	12.00	5	4	6	12.00	230	0	6	12.10	1135
60	46	47	20	9	40.08	4	2	12	18.66	10	2	6	39.58	10	2	6	40.58	4	2	12	18.66	4	2	12	12.00	7	4	6	12.00	6	4	6	12.00	234	0	6	13.47	1162

2 @ 18 x 13 REINFORCED CONCRETE BOX BRIDGE																																						
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars IW			Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF	
	ST	SB	WT	IT	BW	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	12.5	12	8	8	38.00	7	2	6	37.50	8	2	6	37.50	6	2	6	38.50	8	2	6	38.50	4	2	12	13.00	7	4	6	13.00	4	4	6	13.00	194	72	6	3.87	1091
3	15	15	9	8	38.17	11	1	12	37.67	7	2	6	37.67	6	2	6	38.67	8	2	6	38.67	4	2	12	13.00	7	4	6	13.00	4	4	6	13.00	194	72	6	4.62	1093
5	16	16	9	8	38.17	8	2	6	37.67	7	2	6	37.67	6	2	6	38.67	8	2	6	38.67	4	2	12	13.00	8	4	6	13.00	4	4	6	13.00	232	0	6	4.86	1104
10	20	20	10	8	38.33	9	2	6	37.83	7	2	6	37.83	6	2	6	38.83	9	2	6	38.83	4	2	12	13.00	9	4	6	13.00	4	4	6	13.00	232	0	6	5.92	1257
20	20	21	13	8	38.83	4	2	12	18.66	11	2	6	38.33	10	2	6	39.33	4	2	12	18.66	4	2	12	13.00	8	4	6	13.00	4	4	6	13.00	232	0	6	6.34	1222
30	29	30	16	8	39.33	4	2	12	18.66	10	2	6	38.83	10	2	6	39.83	4	2	12	18.66	4	2	12	13.00	7	4	6	13.00	6	2	12	13.00	236	0	6	8.86	1127
40	36	37	18	9	39.75	4	2	12	18.66	10	2	6	39.25	10	2	6	40.25	4	2	12	18.66	4	2	12	13.00	8	4	6	13.00	5	4	6	13.00	236	0	6	10.88	1182
50	41	42	20	9	40.08	4	2	12	18.66	10	2	6	39.58	10	2	6	40.58	4	2	12	18.66	4	2	12	13.00	7	4	6	13.00	5	4	6	13.00	240	0	6	12.36	1158
60	46	47	22	10	40.50	4	2	12	18.66	10	2	6	40.00	10	2	6	41.00	4	2	12	18.66	4	2	12	13.00	7	4	6	13.00	5	4	6	13.00	240	0	6	13.94	1165

2 @ 18 x 14 REINFORCED CONCRETE BOX BRIDGE																																						
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars IW			Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF	
	ST	SB	WT	IT	BW	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	12.5	12	9	8	38.17	7	2	6	37.67	8	2	6	37.67	6	2	6	38.67	8	2	6	38.67	4	2	12	14.00	7	4	6	14.00	6	2	12	14.00	200	72	6	4.05	1115
3	15	15	9	8	38.17	11	1	12	37.67	7	2	6	37.67	6	2	6	38.67	8	2	6	38.67	4	2	12	14.00	8	4	6	14.00	6	2	12	14.00	200	72	6	4.70	1149
5	16	16	10	8	38.33	8	2	6	37.83	7	2	6	37.83	8	1	12	38.83	8	2	6	38.83	4	2	12	14.00	8	4	6	14.00	6	2	12	14.00	238	0	6	5.05	1117
10	20	20	11	8	38.50	9	2	6	38.00	7	2	6	38.00	9	1	12	39.00	9	2	6	39.00	4	2	12	14.00	9	4	6	14.00	6	2	12	14.00	238	0	6	6.11	1302
20	20	21	14	8	39.00	4	2	12	18.66	11	2	6	38.50	10	2	6	39.50	4	2	12	18.66	4	2	12	14.00	8	4	6	14.00	6	2	12	14.00	242	0	6	6.56	1251
30	29	30	17	8	39.50	4	2	12	18.66	10	2	6	39.00	10	2	6	40.00	4	2	12	18.66	4	2	12	14.00	8	4	6	14.00	6	2	12	14.00	242	0	6	9.10	1182
40	36	37	19	9	39.92	4	2	12	18.66	10	2	6	39.42	10	2	6	40.42	4	2	12	18.66	4	2	12	14.00	8	4	6	14.00	5	4	6	14.00	242	0	6	11.14	1205
50	41	43	22	10	40.50	4	2	12	18.66	10	2	6	40.00	10	2	6	41.00	4	2	12	18.66	4	2	12	14.00	8	4	6	14.00	5	4	6	14.00	246	0	6	12.97	1218
60	46	47	24	10	40.83	4	2	12	18.66	10	2	6	40.33	10	2	6	41.33	4	2	12	18.66	4	2	12	14.00	7	4	6	14.00	6	4	6	14.00	246	0	6	14.37	1214



NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-17-5.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 STANDARD REINFORCED CONCRETE BOX BRIDGE
 INTERIOR SECTION
 SPANS: 2 BARRELS AT 18'-0"
 CLEAR HEIGHTS 12'-0" THRU 14'-0"
 0' THRU 60' FILL
 2010

CORRECT *Edward P. Wasserman*
 ENGINEER OF STRUCTURES

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 height of fill above the top slab is less than 1 foot, the top mat of reinforcing in the top slab shall be constructed with 2-1/2 inches of concrete cover.

The following bar information applies to all fill cases in the tables above:
 Bars LNT Size = 4 Spacing = 12 in.
 Bars LND Size = 4 Spacing = 6 in.
 Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.

DESIGNED BY: RLL/ALP DATE: 12-09
 DRAWN BY: KEVIN MARTINKO DATE: 1-10
 SUPERVISED BY: EPW/RLC DATE: 12-09
 CHECKED BY: RLL/ALP DATE: 2-10