

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

2 @ 12 x 4 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 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	10	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	6	26.50	4	2	6	26.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	108	48	6	1.97	527
3	14	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	7	1	12	26.50	6	2	6	26.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	108	48	6	2.59	546
5	14	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	134	0	6	2.59	514
10	16	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	134	0	6	2.91	565
20	16	16	8	8	26.00	4	2	12	12.67	9	2	6	25.50	9	2	6	26.50	4	2	12	12.67	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	134	0	6	2.91	576
30	21	21	8	8	26.00	4	2	12	12.67	8	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	4.00	5	2	12	4.00	5	2	12	4.00	134	0	6	3.73	502
40	26	26	8	8	26.00	4	2	12	12.67	8	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	4.00	5	2	12	4.00	4	4	6	4.00	134	0	6	4.55	505
50	31	31	8	8	26.00	4	2	12	12.67	8	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	4.00	5	2	12	4.00	7	2	12	4.00	134	0	6	5.37	510
60	34	34	8	8	26.00	4	2	12	12.67	9	2	6	25.50	9	2	6	26.50	4	2	12	12.67	4	2	12	4.00	5	2	12	4.00	7	2	12	4.00	134	0	6	5.86	587

2 @ 12 x 5 REINFORCED CONCRETE BOX BRIDGE

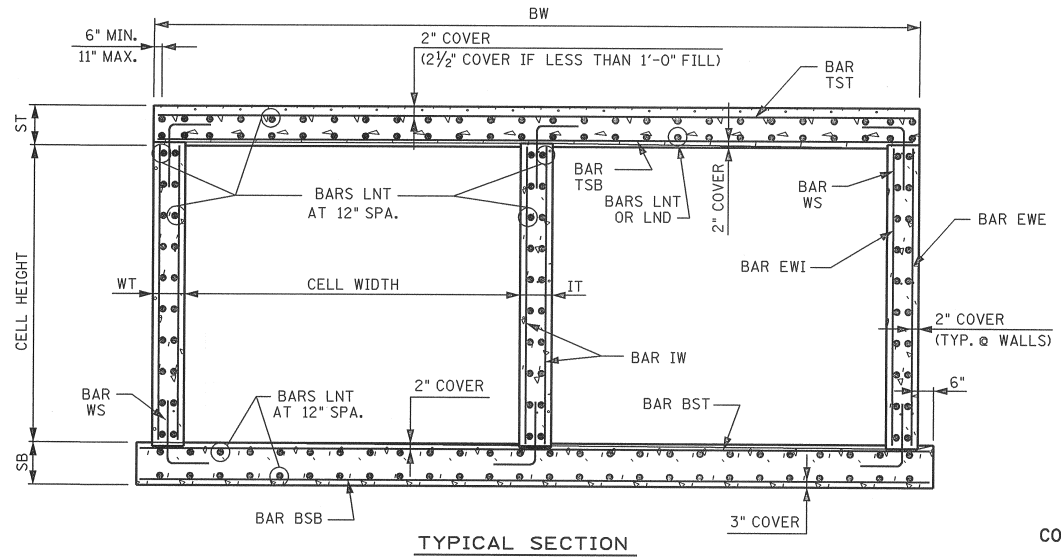
Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars IW				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	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	10	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	6	26.50	4	2	6	26.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	114	48	6	2.05	564
3	14	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	7	1	12	26.50	6	2	6	26.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	114	48	6	2.66	554
5	14	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	140	0	6	2.66	523
10	16	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	140	0	6	2.99	574
20	16	16	8	8	26.00	4	2	12	12.67	9	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	140	0	6	2.99	545
30	21	21	8	8	26.00	4	2	12	12.67	8	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	5.00	5	2	12	5.00	5	2	12	5.00	140	0	6	3.81	512
40	26	26	8	8	26.00	4	2	12	12.67	8	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	5.00	5	2	12	5.00	4	4	6	5.00	140	0	6	4.62	515
50	31	31	9	8	26.17	4	2	12	12.67	8	2	6	25.67	11	1	12	26.67	4	2	12	12.67	4	2	12	5.00	5	2	12	5.00	7	2	12	5.00	140	0	6	5.50	524
60	34	34	10	8	26.33	4	2	12	12.67	9	2	6	25.83	9	2	6	26.83	4	2	12	12.67	4	2	12	5.00	5	2	12	5.00	7	2	12	5.00	140	0	6	6.06	603

2 @ 12 x 6 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 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	10	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	6	26.50	4	2	6	26.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	120	48	6	2.12	573
3	14	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	7	1	12	26.50	6	2	6	26.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	120	48	6	2.73	563
5	14	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	146	0	6	2.73	531
10	16	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	146	0	6	3.06	583
20	16	16	8	8	26.00	4	2	12	12.67	9	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	146	0	6	3.06	554
30	21	21	8	8	26.00	4	2	12	12.67	8	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	6.00	6	2	12	6.00	5	2	12	6.00	146	0	6	3.88	527
40	26	26	9	8	26.17	4	2	12	12.67	8	2	6	25.67	11	1	12	26.67	4	2	12	12.67	4	2	12	6.00	5	2	12	6.00	4	4	6	6.00	146	0	6	4.76	527
50	31	31	10	8	26.33	4	2	12	12.67	8	2	6	25.83	11	1	12	26.83	4	2	12	12.67	4	2	12	6.00	5	2	12	6.00	7	2	12	6.00	146	0	6	5.65	537
60	34	34	11	8	26.50	4	2	12	12.67	9	2	6	26.00	9	2	6	27.00	4	2	12	12.67	4	2	12	6.00	5	2	12	6.00	7	2	12	6.00	146	0	6	6.22	617

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.



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 12'-0"
 CLEAR HEIGHTS 4'-0" THRU 6'-0"
 0' THRU 60' FILL
 2010

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

CORRECT *Edward P. Wasserman*
 ENGINEER OF STRUCTURES