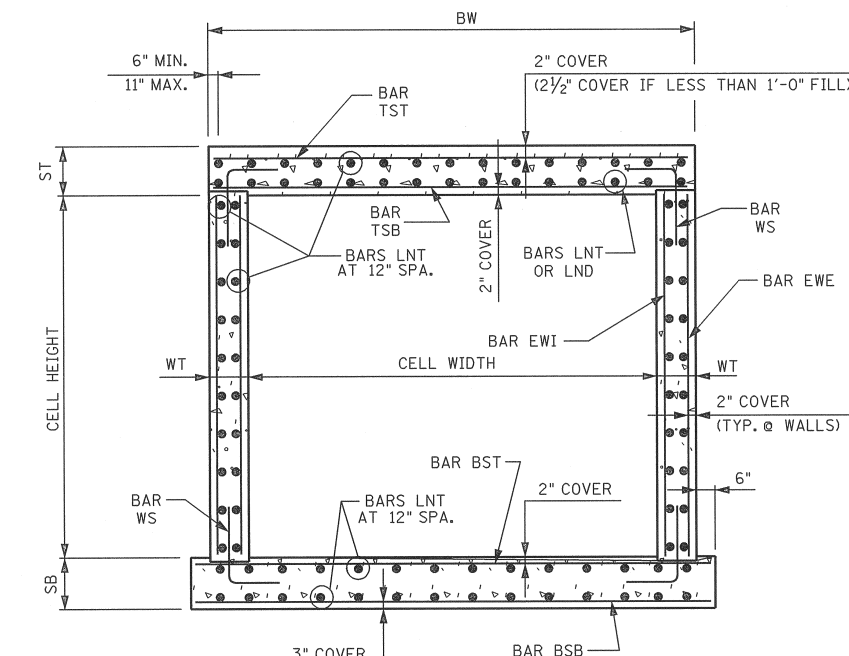


CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
	2010		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 14 x 12 REINFORCED CONCRETE BOX BRIDGE																																	
Maximum Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT 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.	No.	No.	No.						
No Fill	10.5	10	8	15.33	4	1	12	14.83	9	2	6	14.83	8	2	6	15.83	4	1	12	15.83	4	2	12	12.00	7	2	12	12.00	96	28	4	1.59	418
3	13	13	8	15.33	4	1	12	14.83	8	2	6	14.83	8	2	6	15.83	4	1	12	15.83	4	2	12	12.00	7	4	6	12.00	96	28	4	1.86	445
5	12	12	8	15.33	4	1	12	14.83	8	2	6	14.83	8	2	6	15.83	4	1	12	15.83	4	2	12	12.00	8	4	6	12.00	110	0	4	1.77	455
10	14	14	10	15.67	4	1	12	15.17	8	2	6	15.17	9	2	6	16.17	4	1	12	16.17	4	2	12	12.00	7	4	6	12.00	110	0	4	2.14	453
20	17	17	12	16.00	4	1	12	15.50	9	2	6	15.50	9	2	6	16.50	4	1	12	16.50	4	2	12	12.00	8	4	6	12.00	114	0	4	2.62	513
30	23	24	15	16.50	4	1	12	16.00	9	2	6	16.00	9	2	6	17.00	4	1	12	17.00	4	2	12	12.00	7	4	6	12.00	114	0	4	3.58	490
40	29	30	17	16.83	4	1	12	16.33	9	2	6	16.33	9	2	6	17.33	4	1	12	17.33	4	2	12	12.00	7	4	6	12.00	114	0	4	4.42	495
50	33	34	19	17.17	4	1	12	16.67	9	2	6	16.67	9	2	6	17.67	4	1	12	17.67	4	2	12	12.00	7	4	6	12.00	118	0	4	5.06	503
60	37	38	21	17.50	4	1	12	17.00	9	2	6	17.00	9	2	6	18.00	4	1	12	18.00	4	2	12	12.00	7	4	6	12.00	118	0	4	5.72	508

1 @ 14 x 13 REINFORCED CONCRETE BOX BRIDGE																																	
Maximum Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT 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.	No.	No.	No.						
No Fill	10.5	10	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	13.00	7	4	6	13.00	100	28	4	1.64	502
3	13	13	9	15.50	4	1	12	15.00	8	2	6	15.00	8	2	6	16.00	4	1	12	16.00	4	2	12	13.00	7	4	6	13.00	100	28	4	2.01	459
5	12	12	9	15.50	4	1	12	15.00	8	2	6	15.00	9	2	6	16.00	4	1	12	16.00	4	2	12	13.00	8	4	6	13.00	114	0	4	1.91	495
10	14	14	10	15.67	4	1	12	15.17	8	2	6	15.17	9	2	6	16.17	4	1	12	16.17	4	2	12	13.00	9	4	6	13.00	114	0	4	2.20	536
20	17	18	13	16.17	4	1	12	15.67	9	2	6	15.67	9	2	6	16.67	4	1	12	16.67	4	2	12	13.00	8	4	6	13.00	118	0	4	2.85	530
30	23	25	16	16.67	4	1	12	16.17	9	2	6	16.17	9	2	6	17.17	4	1	12	17.17	4	2	12	13.00	8	4	6	13.00	118	0	4	3.83	537
40	29	30	18	17.00	4	1	12	16.50	9	2	6	16.50	9	2	6	17.50	4	1	12	17.50	4	2	12	13.00	8	4	6	13.00	122	0	4	4.63	545
50	33	34	21	17.50	4	1	12	17.00	9	2	6	17.00	9	2	6	18.00	4	1	12	18.00	4	2	12	13.00	7	4	6	13.00	122	0	4	5.41	520
60	37	38	23	17.83	4	1	12	17.33	9	2	6	17.33	9	2	6	18.33	4	1	12	18.33	4	2	12	13.00	7	4	6	13.00	122	0	4	6.09	525

1 @ 14 x 14 REINFORCED CONCRETE BOX BRIDGE																																	
Maximum Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT 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.	No.	No.	No.						
No Fill	10.5	10	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	14.00	8	4	6	14.00	104	28	4	1.69	549
3	13	13	9	15.50	4	1	12	15.00	8	2	6	15.00	8	2	6	16.00	4	1	12	16.00	4	2	12	14.00	8	4	6	14.00	104	28	4	2.06	507
5	12	12	10	15.67	4	1	12	15.17	8	2	6	15.17	9	2	6	16.17	4	1	12	16.17	4	2	12	14.00	8	4	6	14.00	118	0	4	2.06	512
10	14	14	11	15.83	4	1	12	15.33	8	2	6	15.33	9	2	6	16.33	4	1	12	16.33	4	2	12	14.00	9	4	6	14.00	118	0	4	2.36	555
20	17	18	14	16.33	4	1	12	15.83	9	2	6	15.83	9	2	6	16.83	4	1	12	16.83	4	2	12	14.00	9	4	6	14.00	122	0	4	3.03	588
30	23	25	17	16.83	4	1	12	16.33	9	2	6	16.33	9	2	6	17.33	4	1	12	17.33	4	2	12	14.00	8	4	6	14.00	122	0	4	4.04	555
40	29	30	20	17.33	4	1	12	16.83	9	2	6	16.83	9	2	6	17.83	4	1	12	17.83	4	2	12	14.00	8	4	6	14.00	126	0	4	4.98	565
50	33	34	22	17.67	4	1	12	17.17	9	2	6	17.17	9	2	6	18.17	4	1	12	18.17	4	2	12	14.00	8	4	6	14.00	126	0	4	5.66	570
60	37	38	24	18.00	4	1	12	17.50	9	2	6	17.50	9	2	6	18.50	4	1	12	18.50	4	2	12	14.00	8	4	6	14.00	130	0	4	6.36	577



TYPICAL SECTION

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

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 = 5 Spacing = 6 in.
 Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 STANDARD REINFORCED CONCRETE
 BOX BRIDGE
 INTERIOR SECTION
 SPANS: 1 BARREL AT 14'-0"
 CLEAR HEIGHTS 12'-0" THRU 14'-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