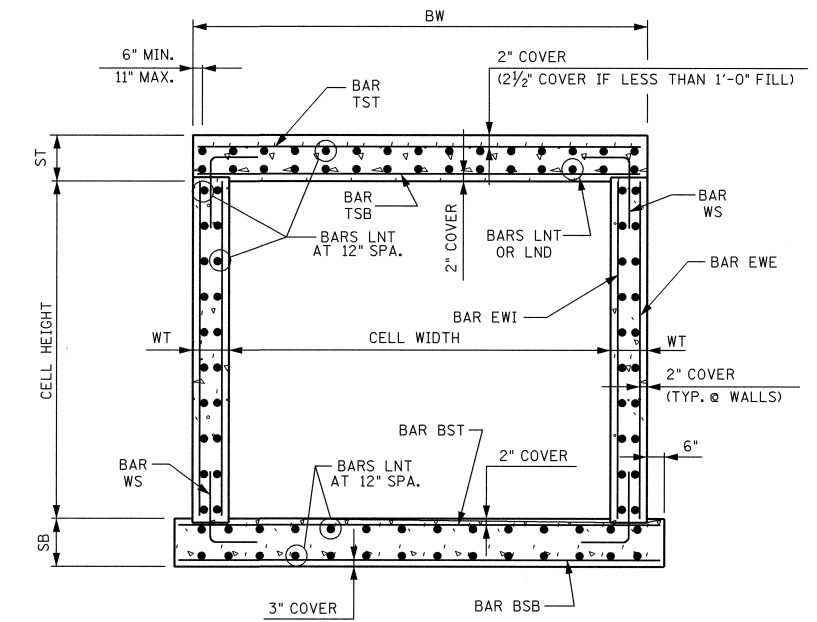


CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
	2010		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 9 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	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	9.00	5	2	12	9.00	96	36	4	1.82	509
3	15	15	8	19.33	4	1	12	18.83	8	2	6	18.83	8	2	6	19.83	4	1	12	19.83	4	2	12	9.00	5	2	12	9.00	96	36	4	2.28	418
5	15	15	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	9.00	6	2	12	9.00	114	0	4	2.28	457
10	15	16	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	9.00	5	4	6	9.00	114	0	4	2.34	538
20	20	20	9	19.50	4	1	12	19.00	11	2	6	19.00	10	2	6	20.00	4	1	12	20.00	4	2	12	9.00	7	4	6	9.00	114	0	4	2.97	615
30	29	29	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	9.00	6	4	6	9.00	114	0	4	4.25	564
40	36	36	13	20.17	4	1	12	19.67	10	2	6	19.67	10	2	6	20.67	4	1	12	20.67	4	2	12	9.00	5	4	6	9.00	118	0	4	5.31	556
50	41	42	14	20.33	4	1	12	19.83	10	2	6	19.83	10	2	6	20.83	4	1	12	20.83	4	2	12	9.00	7	2	12	9.00	118	0	4	6.12	558
60	46	47	15	20.50	4	1	12	20.00	10	2	6	20.00	10	2	6	21.00	4	1	12	21.00	4	2	12	9.00	6	2	12	9.00	118	0	4	6.86	552

1 @ 18 x 10 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	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	10.00	6	2	12	10.00	100	36	4	1.87	524
3	15	15	8	19.33	4	1	12	18.83	8	2	6	18.83	8	2	6	19.83	4	1	12	19.83	4	2	12	10.00	5	4	6	10.00	100	36	4	2.33	445
5	15	15	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	10.00	5	4	6	10.00	118	0	4	2.33	476
10	15	16	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	10.00	7	4	6	10.00	118	0	4	2.39	586
20	20	20	10	19.67	4	1	12	19.17	11	2	6	19.17	10	2	6	20.17	4	1	12	20.17	4	2	12	10.00	7	4	6	10.00	118	0	4	3.11	631
30	29	29	12	20.00	4	1	12	19.50	10	2	6	19.50	10	2	6	20.50	4	1	12	20.50	4	2	12	10.00	6	4	6	10.00	122	0	4	4.41	579
40	36	36	14	20.33	4	1	12	19.83	10	2	6	19.83	10	2	6	20.83	4	1	12	20.83	4	2	12	10.00	6	4	6	10.00	122	0	4	5.49	585
50	41	42	16	20.67	4	1	12	20.17	10	2	6	20.17	10	2	6	21.17	4	1	12	21.17	4	2	12	10.00	6	4	6	10.00	122	0	4	6.41	592
60	46	47	17	20.83	4	1	12	20.33	10	2	6	20.33	10	2	6	21.33	4	1	12	21.33	4	2	12	10.00	5	4	6	10.00	122	0	4	7.17	576

1 @ 18 x 11 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	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	11.00	6	2	12	11.00	104	36	4	1.92	531
3	15	15	8	19.33	4	1	12	18.83	8	2	6	18.83	8	2	6	19.83	4	1	12	19.83	4	2	12	11.00	5	4	6	11.00	104	36	4	2.38	453
5	15	15	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	11.00	6	4	6	11.00	122	0	4	2.38	504
10	15	16	9	19.50	4	1	12	19.00	10	2	6	19.00	9	2	6	20.00	4	1	12	20.00	4	2	12	11.00	7	4	6	11.00	122	0	4	2.53	565
20	20	20	11	19.83	4	1	12	19.33	11	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	11.00	7	4	6	11.00	122	0	4	3.26	646
30	29	30	13	20.17	4	1	12	19.67	10	2	6	19.67	10	2	6	20.67	4	1	12	20.67	4	2	12	11.00	7	4	6	11.00	126	0	4	4.65	616
40	36	36	15	20.50	4	1	12	20.00	10	2	6	20.00	10	2	6	21.00	4	1	12	21.00	4	2	12	11.00	7	4	6	11.00	126	0	4	5.69	622
50	41	42	17	20.83	4	1	12	20.33	10	2	6	20.33	10	2	6	21.33	4	1	12	21.33	4	2	12	11.00	6	4	6	11.00	126	0	4	6.62	605
60	46	47	19	21.17	4	1	12	20.67	10	2	6	20.67	10	2	6	21.67	4	1	12	21.67	4	2	12	11.00	6	4	6	11.00	130	0	4	7.51	614



TYPICAL SECTION

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: 1 BARREL AT 18'-0"
 CLEAR HEIGHTS 9'-0" THRU 11'-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 = 5 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