CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 12 REINFORCED CONCRETE BOX BRIDGE

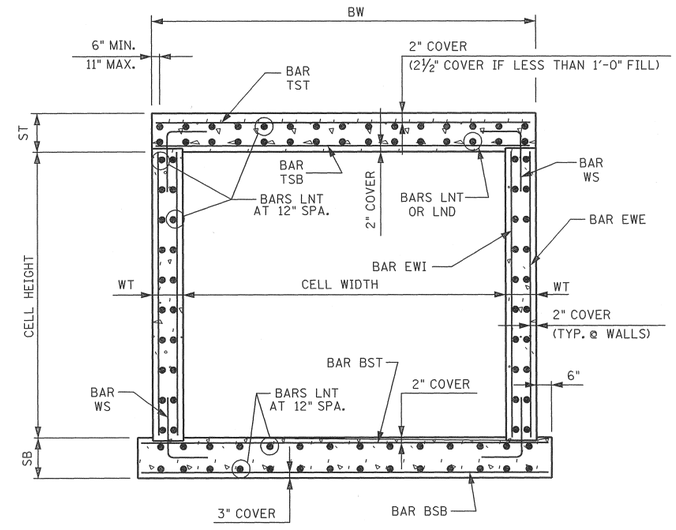
Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
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	12.00	7	2	12	12.00	108	36	4	1.97	551
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	12.00	7	4	6	12.00	108	36	4	2.43	510
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	12.00	8	4	6	12.00	126	0	4	2.43	571
10	15	16	10	19.67	4	1	12	19.17	10	2	6	19.17	10	2	6	20.17	4	1	12	20.17	4	2	12	12.00	7	4	6	12.00	126	0	4	2.67	616
20	20	21	12	20.00	4	1	12	19.50	11	2	6	19.50	10	2	6	20.50	4	1	12	20.50	4	2	12	12.00	8	4	6	12.00	130	0	4	3.48	695
30	29	30	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	12.00	7	4	6	12.00	130	0	4	4.94	635
40	36	37	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	12.00	7	4	6	12.00	130	0	4	6.07	641
50	41	42	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	12.00	7	4	6	12.00	134	0	4	6.96	650
60	46	47	20	21.33	4	1	12	20.83	10	2	6	20.83	10	2	6	21.83	4	1	12	21.83	4	2	12	12.00	7	4	6	12.00	134	0	4	7.75	653

1 @ 18 x 13 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	12	19.83	4	1	12	19.83	4	2	12	13.00	7	4	6	13.00	112	36	4	2.02	599
3	15	15	9	19.50	4	1	12	19.00	8	2	6	19.00	8	2	12	20.00	4	1	12	20.00	4	2	12	13.00	7	4	6	13.00	112	36	4	2.57	510
5	15	15	9	19.50	4	1	12	19.00	9	2	6	19.00	9	2	6	20.00	4	1	12	20.00	4	2	12	13.00	8	4	6	13.00	130	0	4	2.57	588
10	15	16	10	19.67	4	1	12	19.17	10	2	6	19.17	10	2	6	20.17	4	1	12	20.17	4	2	12	13.00	8	4	6	13.00	130	0	4	2.73	661
20	20	21	13	20.17	4	1	12	19.67	11	2	6	19.67	10	2	6	20.67	4	1	12	20.67	4	2	12	13.00	8	4	6	13.00	134	0	4	3.66	713
30	29	30	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	13.00	7	4	6	13.00	134	0	4	5.14	650
40	36	37	18	21.00	4	1	12	20.50	10	2	6	20.50	10	2	6	21.50	4	1	12	21.50	4	2	12	13.00	8	4	6	13.00	138	0	4	6.29	691
50	41	42	20	21.33	4	1	12	20.83	10	2	6	20.83	10	2	6	21.83	4	1	12	21.83	4	2	12	13.00	7	4	6	13.00	138	0	4	7.20	665
60	46	47	22	21.67	4	1	12	21.17	10	2	6	21.17	10	2	6	22.17	4	1	12	22.17	4	2	12	13.00	7	4	6	13.00	138	0	4	8.13	671

1 @ 18 x 14 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	11	9	19.50	4	1	12	19.00	10	2	6	19.00	10	2	12	20.00	4	1	12	20.00	4	2	12	14.00	7	4	6	14.00	116	36	4	2.17	663
3	15	15	9	19.50	4	1	12	19.00	8	2	6	19.00	8	2	12	20.00	4	1	12	20.00	4	2	12	14.00	8	4	6	14.00	116	36	4	2.63	571
5	15	15	10	19.67	4	1	12	19.17	9	2	6	19.17	9	2	6	20.17	4	1	12	20.17	4	2	12	14.00	8	4	6	14.00	134	0	4	2.73	605
10	15	16	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	14.00	8	4	6	14.00	134	0	4	2.90	679
20	20	21	14	20.33	4	1	12	19.83	11	2	6	19.83	10	2	6	20.83	4	1	12	20.83	4	2	12	14.00	8	4	6	14.00	138	0	4	3.85	731
30	29	30	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	14.00	8	4	6	14.00	138	0	4	5.36	700
40	36	37	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	14.00	8	4	6	14.00	142	0	4	6.53	709
50	41	43	22	21.67	4	1	12	21.17	10	2	6	21.17	10	2	6	22.17	4	1	12	22.17	4	2	12	14.00	8	4	6	14.00	142	0	4	7.65	718
60	46	47	24	22.00	4	1	12	21.50	10	2	6	21.50	10	2	6	22.50	4	1	12	22.50	4	2	12	14.00	7	4	6	14.00	146	0	4	8.53	692



TYPICAL SECTION

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.

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 12'-0" THRU 14'-0" 0' THRU 60' FILL 2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-67

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

09-23-2009 10:40:40 C:\Projects\Standards\Tables\17-65&66&67&68_1BARRELL_BOX18'.DGN Files 1-6-10\18' Span\STD-17-65&66&67&68_1BARRELL_BOX18'.DGN