CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @12 x 10 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT 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 IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	10	8	8	26.00	7	2	6	25.50	7	2	6	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	10.00	6	2	12	10.00	4	2	12	10.00	140	48	6	2.42	635
	3	14	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	10.00	6	2	12	10.00	4	2	12	10.00	140	48	6	3.03	615
	5	14	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	7	2	6	26.50	4	2	12	10.00	6	4	6	10.00	4	2	12	10.00	166	0	6	3.03	621
	10	16	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	7	1	12	26.50	7	2	6	26.50	4	2	12	10.00	8	4	6	10.00	4	2	12	10.00	166	0	6	3.36	700
Moment Break	20	16	16	10	8	26.33	4	2	12	12.66	9	2	6	25.83	9	2	6	26.83	4	2	12	12.66	4	2	12	10.00	7	4	6	10.00	4	2	12	10.00	166	0	6	3.51	691
	30	21	21	13	8	26.83	4	2	12	12.66	8	2	6	26.33	11	1	12	27.33	4	2	12	12.66	4	2	12	10.00	7	4	6	10.00	5	2	12	10.00	166	0	6	4.59	627
	40	26	26	14	8	27.00	4	2	12	12.66	8	2	6	26.50	11	1	12	27.50	4	2	12	12.66	4	2	12	10.00	7	4	6	10.00	4	4	6	10.00	170	0	6	5.52	637
	50	31	31	16	8	27.33	4	2	12	12.66	8	2	6	26.83	11	1	12	27.83	4	2	12	12.66	4	2	12	10.00	7	4	6	10.00	7	2	12	10.00	170	0	6	6.56	655
	60	34	34	18	8	27.67	4	2	12	12.66	9	2	6	27.17	9	2	6	28.17	4	2	12	12.66	4	2	12	10.00	6	4	6	10.00	7	2	12	10.00	170	0	6	7.27	718

2 @12 x 11 REINFORCED CONCRETE BOX BRIDGE

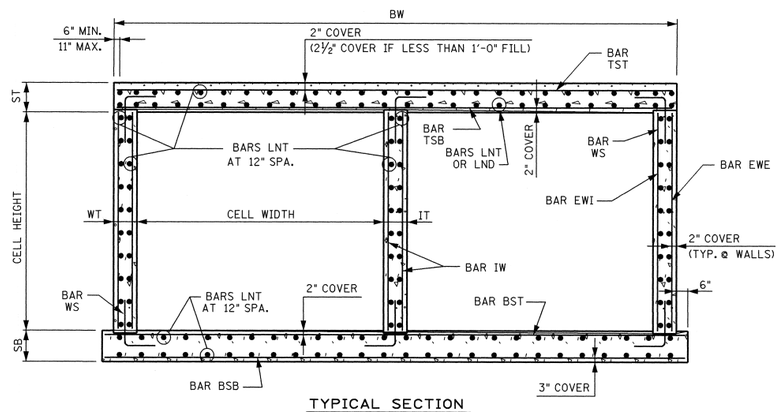
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	10	8	8	26.00	7	2	6	25.50	7	2	6	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	11.00	6	2	12	11.00	4	2	12	11.00	146	48	6	2.49	644
	3	14	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	11.00	7	2	12	11.00	4	2	12	11.00	146	48	6	3.10	637
	5	14	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	7	2	6	26.50	4	2	12	11.00	7	4	6	11.00	4	2	12	11.00	172	0	6	3.10	658
	10	16	16	9	8	26.17	8	2	6	25.67	6	2	6	25.67	7	1	12	26.67	7	2	6	26.67	4	2	12	11.00	8	4	6	11.00	4	2	12	11.00	172	0	6	3.52	720
Moment Break	20	16	16	11	8	26.50	4	2	12	12.66	9	2	6	26.00	9	2	6	27.00	4	2	12	12.66	4	2	12	11.00	8	4	6	11.00	4	2	12	11.00	172	0	6	3.69	736
	30	21	21	14	8	27.00	4	2	12	12.66	8	2	6	26.50	11	1	12	27.50	4	2	12	12.66	4	2	12	11.00	7	4	6	11.00	5	2	12	11.00	176	0	6	4.79	647
	40	26	26	16	8	27.33	4	2	12	12.66	8	2	6	26.83	11	1	12	27.83	4	2	12	12.66	4	2	12	11.00	7	4	6	11.00	4	4	6	11.00	176	0	6	5.83	657
	50	31	31	18	8	27.67	4	2	12	12.66	8	2	6	27.17	11	1	12	28.17	4	2	12	12.66	4	2	12	11.00	7	4	6	11.00	7	2	12	11.00	176	0	6	6.88	676
	60	34	34	19	8	27.83	4	2	12	12.66	9	2	6	27.33	9	2	6	28.33	4	2	12	12.66	4	2	12	11.00	7	4	6	11.00	7	2	12	11.00	176	0	6	7.51	760

2 @12 x 12 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT 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 IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	10	8	8	26.00	7	2	6	25.50	7	2	6	25.50	6	1	12	26.50	7	2	6	26.50	4	2	12	12.00	7	2	12	12.00	5	2	12	12.00	152	48	6	2.56	660
	3	14	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	12.00	7	4	6	12.00	5	2	12	12.00	152	48	6	3.18	706
	5	14	14	9	8	26.17	7	2	6	25.67	6	2	6	25.67	7	1	12	26.67	7	2	6	26.67	4	2	12	12.00	7	4	6	12.00	5	2	12	12.00	178	0	6	3.27	684
	10	16	16	10	8	26.33	8	2	6	25.83	6	2	6	25.83	7	1	12	26.83	7	2	6	26.83	4	2	12	12.00	8	4	6	12.00	5	2	12	12.00	178	0	6	3.69	748
Moment Break	20	16	16	12	8	26.67	4	2	12	12.66	9	2	6	26.17	11	1	12	27.17	4	2	12	12.66	4	2	12	12.00	8	4	6	12.00	5	2	12	12.00	178	0	6	3.87	724
	30	21	22	15	8	27.17	4	2	12	12.66	8	2	6	26.67	11	1	12	27.67	4	2	12	12.66	4	2	12	12.00	7	4	6	12.00	5	2	12	12.00	182	0	6	5.08	664
	40	26	26	17	8	27.50	4	2	12	12.66	8	2	6	27.00	11	1	12	28.00	4	2	12	12.66	4	2	12	12.00	8	4	6	12.00	4	4	6	12.00	182	0	6	6.05	705
	50	31	31	19	8	27.83	4	2	12	12.66	8	2	6	27.33	11	1	12	28.33	4	2	12	12.66	4	2	12	12.00	8	4	6	12.00	7	2	12	12.00	182	0	6	7.13	725
	60	34	34	21	8	28.17	4	2	12	12.66	9	2	6	27.67	9	2	6	28.67	4	2	12	12.66	4	2	12	12.00	7	4	6	12.00	7	2	12	12.00	186	0	6	7.87	784

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.



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: 2 BARRELS AT 12'-0"
CLEAR HEIGHTS 10'-0" THRU 12'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

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