2 @ 6 x 3 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.	Size	No.	Spacing in.	Length ft.	No.	No.	No.		
Continuous	No Fill	8.5	8	8	8	14.00	7	1	12	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	62	12	6	0.96	254
Continuous	3	10	10	8	8	14.00	8	1	12	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	62	12	6	1.12	262
Continuous	5	9	9	8	8	14.00	5	2	6	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	76	0	6	1.03	251
Continuous	10	9	9	8	8	14.00	5	2	6	13.50	4	2	6	13.50	4	2	6	14.50	7	1	12	14.50	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	76	0	6	1.03	240
Moment Break	20	8	9	8	8	14.00	4	2	12	6.66	6	2	6	13.50	6	2	6	14.50	4	2	12	6.66	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	76	0	6	0.98	247
Moment Break	30	11	12	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	76	0	6	1.25	242
Moment Break	40	14	15	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	3.00	5	2	12	3.00	4	2	12	3.00	76	0	6	1.52	242
Moment Break	50	16	17	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	3.00	5	2	12	3.00	5	2	12	3.00	76	0	6	1.70	244
Moment Break	60	17	18	8	8	14.00	4	2	12	6.66	7	2	6	13.50	6	2	6	14.50	4	2	12	6.66	4	2	12	3.00	5	2	12	3.00	5	2	12	3.00	76	0	6	1.79	264

2 @ 6 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.	Size	No.	Spacing in.	Length ft.	No.	No.	No.		
Continuous	No Fill	8.5	8	8	8	14.00	7	1	12	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	68	12	6	1.03	262
Continuous	3	10	10	8	8	14.00	8	1	12	13.50	5	2	6	13.50	4	2	6	14.50	4	2	6	14.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	68	12	6	1.19	260
Continuous	5	9	9	8	8	14.00	5	2	6	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	82	0	6	1.10	260
Continuous	10	9	9	8	8	14.00	5	2	6	13.50	4	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	82	0	6	1.10	250
Moment Break	20	8	9	8	8	14.00	4	2	12	6.66	6	2	6	13.50	6	2	6	14.50	4	2	12	6.66	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	82	0	6	1.06	256
Moment Break	30	11	13	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	82	0	6	1.37	251
Moment Break	40	14	15	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	82	0	6	1.60	251
Moment Break	50	16	16	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	4.00	5	2	12	4.00	4	2	12	4.00	82	0	6	1.73	251
Moment Break	60	17	18	9	8	14.17	4	2	12	6.66	7	2	6	13.67	8	1	12	14.67	4	2	12	6.66	4	2	12	4.00	5	2	12	4.00	5	2	12	4.00	82	0	6	1.91	270

2 @ 6 x 5 REINFORCED CONCRETE BOX BRIDGE

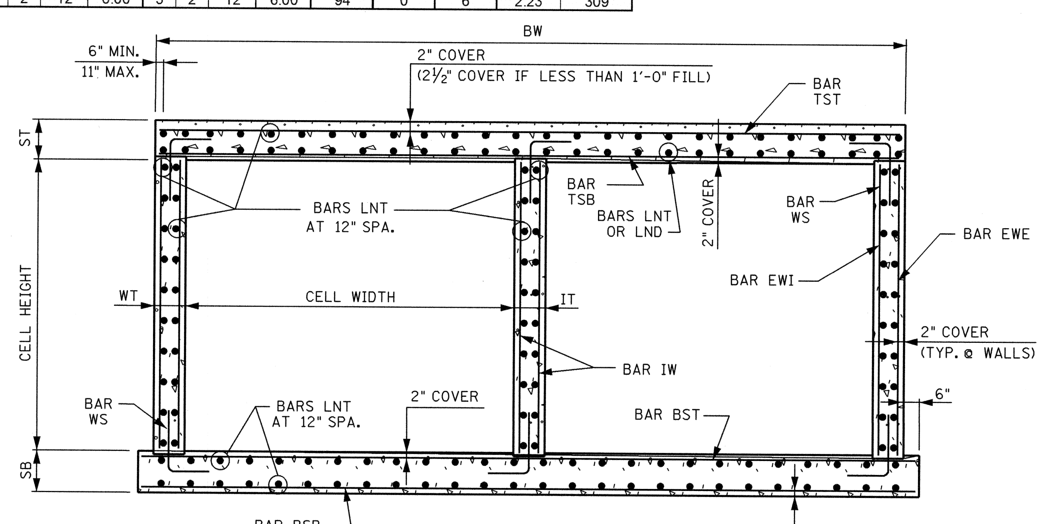
	Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars IW				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
		ST in.	SB in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	No.	No.	No.		
Continuous	No Fill	8.5	8	8	8	14.00	7	1	12	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	74	12	6	1.11	271
Continuous	3	10	10	8	8	14.00	8	1	12	13.50	5	2	6	13.50	4	2	6	14.50	4	2	6	14.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	74	12	6	1.27	269
Continuous	5	9	9	8	8	14.00	5	2	6	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	88	0	6	1.18	269
Continuous	10	9	9	8	8	14.00	5	2	6	13.50	4	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	88	0	6	1.18	258
Moment Break	20	8	10	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	88	0	6	1.18	260
Moment Break	30	11	13	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	5.00	6	2	12	5.00	4	2	12	5.00	88	0	6	1.45	264
Moment Break	40	14	15	9	8	14.17	4	2	12	6.66	6	2	6	13.67	8	1	12	14.67	4	2	12	6.66	4	2	12	5.00	6	2	12	5.00	4	2	12	5.00	88	0	6	1.72	265
Moment Break	50	16	17	10	8	14.33	4	2	12	6.66	6	2	6	13.83	8	1	12	14.83	4	2	12	6.66	4	2	12	5.00	5	2	12	5.00	5	2	12	5.00	88	0	6	1.94	265
Moment Break	60	17	18	10	8	14.33	4	2	12	6.66	7	2	6	13.83	6	2	6	14.83	4	2	12	6.66	4	2	12	5.00	6	2	12	5.00	5	2	12	5.00	88	0	6	2.04	290

2 @ 6 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.	Size	No.	Spacing in.	Length ft.	No.	No.	No.		
Continuous	No Fill	8.5	8	8	8	14.00	7	1	12	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	80	12	6	1.18	285
Continuous	3	10	10	8	8	14.00	8	1	12	13.50	5	2	6	13.50	4	2	6	14.50	4	2	6	14.50	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	80	12	6	1.34	283
Continuous	5	9	9	8	8	14.00	5	2	6	13.50	5	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	94	0	6	1.25	283
Continuous	10	9	9	8	8	14.00	5	2	6	13.50	4	2	6	13.50	4	2	6	14.50	5	2	6	14.50	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	94	0	6	1.25	273
Moment Break	20	8	10	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	6	6.00	6	4	6	6.00	4	2	12	6.00	94	0	6	1.25	292
Moment Break	30	11	13	9	8	14.17	4	2	12	6.66	6	2	6	13.67	8	1	12	14.67	4	2	12	6.66	4	2	12	6.00	6	4	6	6.00	4	2	12	6.00	94	0	6	1.57	293
Moment Break	40	14	15	10	8	14.33	4	2	12	6.66	6	2	6	13.83	8	1	12	14.83	4	2	12	6.66	4	2	12	6.00	6	4	12	6.00	4	2	12	6.00	94	0	6	1.85	294
Moment Break	50	16	17	11	8	14.50	4	2	12	6.66	6	2	6	14.00	8	1	12	15.00	4	2	12	6.66	4	2	12	6.00	6	4	12	6.00	5	2	12	6.00	94	0	6	2.08	299
Moment Break	60	17	18	12	8	14.67	4	2	12	6.66	7	2	6	14.17	6	2	6	15.17	4	2	12	6.66	4	2	12	6.00	7	2	12	6.00	5	2	12	6.00	94	0	6	2.23	309

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



TYPICAL SECTION

CONST. NO. ____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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 6'-0"
CLEAR HEIGHTS 3'-0" THRU 6'-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

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28-JUL-2010
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