

3 @ 12 x 7 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWM				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.	No.	No.	No.						
Continuous	No Fill	11.5	11	8	8	38.67	7	2	6	38.17	7	2	6	38.17	6	1	12	39.17	5	2	6	39.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	176	72	8	3.41	768
	3	14	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	7	1	12	39.17	8	1	12	39.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	176	72	8	4.08	744
	5	13	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	8	1	12	39.17	6	2	6	39.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	214	0	8	3.83	785
	10	15	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	5	2	6	39.17	6	2	6	39.17	4	2	12	7.00	6	2	12	7.00	4	4	12	7.00	214	0	8	4.32	769
Moment Break	20	16	16	8	8	38.67	4	3	12	12.67	9	2	6	38.17	11	1	12	39.17	4	3	12	12.67	4	2	12	7.00	5	4	6	7.00	4	4	12	7.00	214	0	8	4.56	825
	30	21	21	9	8	38.83	4	3	12	12.67	8	2	6	38.33	11	1	12	39.33	4	3	12	12.67	4	2	12	7.00	5	4	6	7.00	5	4	12	7.00	214	0	8	5.83	782
	40	26	26	11	8	39.17	4	3	12	12.67	8	2	6	38.67	11	1	12	39.67	4	3	12	12.67	4	2	12	7.00	6	2	12	7.00	5	4	12	7.00	218	0	8	7.19	780
	50	31	31	12	8	39.33	4	3	12	12.67	8	2	6	38.83	11	1	12	39.83	4	3	12	12.67	4	2	12	7.00	6	2	12	7.00	4	8	6	7.00	218	0	8	8.49	790
	60	34	34	13	8	39.50	4	3	12	12.67	9	2	6	39.00	9	2	6	40.00	4	3	12	12.67	4	2	12	7.00	5	2	12	7.00	7	4	12	7.00	218	0	8	9.30	922

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

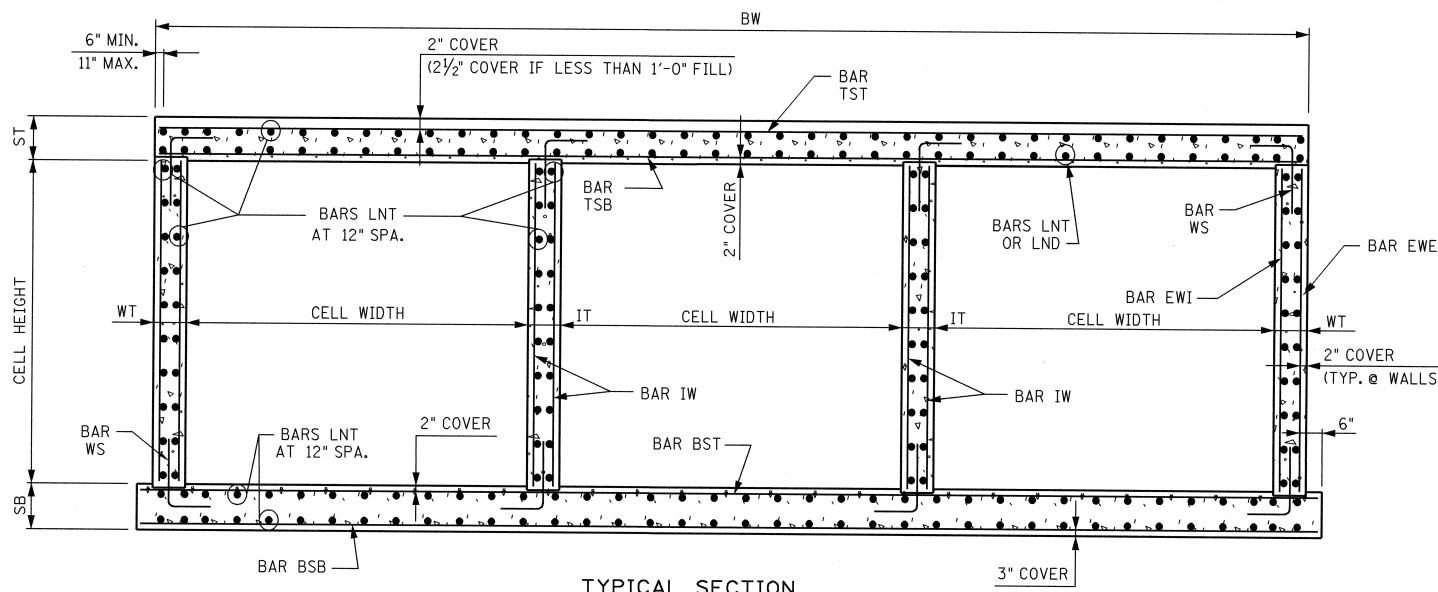
3 @ 12 x 8 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWM				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.	No.	No.	No.						
Continuous	No Fill	11.5	11	8	8	38.67	7	2	6	38.17	7	2	6	38.17	6	1	12	39.17	5	2	6	39.17	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	184	72	8	3.51	779
	3	14	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	7	1	12	39.17	8	1	12	39.17	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	184	72	8	4.17	756
	5	13	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	8	1	12	39.17	9	1	12	39.17	4	2	12	8.00	6	2	12	8.00	4	4	12	8.00	222	0	8	3.93	820
	10	15	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	5	2	6	39.17	6	2	6	39.17	4	2	12	8.00	5	4	6	8.00	4	4	12	8.00	222	0	8	4.42	791
Moment Break	20	16	16	9	8	38.83	4	3	12	12.67	9	2	6	38.33	11	1	12	39.33	4	3	12	12.67	4	2	12	8.00	6	4	6	8.00	4	4	12	8.00	222	0	8	4.72	856
	30	21	21	10	8	39.00	4	3	12	12.67	8	2	6	38.50	11	1	12	39.50	4	3	12	12.67	4	2	12	8.00	6	4	6	8.00	5	4	12	8.00	226	0	8	6.01	816
	40	26	26	12	8	39.33	4	3	12	12.67	8	2	6	38.83	11	1	12	39.83	4	3	12	12.67	4	2	12	8.00	7	2	12	8.00	5	4	12	8.00	226	0	8	7.38	804
	50	31	31	13	8	39.50	4	3	12	12.67	8	2	6	39.00	11	1	12	40.00	4	3	12	12.67	4	2	12	8.00	6	4	6	8.00	4	8	6	8.00	226	0	8	8.69	831
	60	34	34	14	8	39.67	4	3	12	12.67	9	2	6	39.17	9	2	6	40.17	4	3	12	12.67	4	2	12	8.00	5	4	6	8.00	7	4	12	8.00	226	0	8	9.52	957

3 @ 12 x 9 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions					Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWM				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.	No.	No.	No.						
Continuous	No Fill	11.5	11	8	8	38.67	7	2	6	38.17	7	2	6	38.17	6	1	12	39.17	5	2	6	39.17	4	2	12	9.00	5	2	12	9.00	4	4	12	9.00	188	72	8	3.61	788
	3	14	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	7	1	12	39.17	8	1	12	39.17	4	2	12	9.00	6	2	12	9.00	4	4	12	9.00	188	72	8	4.27	773
	5	13	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	8	1	12	39.17	9	1	12	39.17	4	2	12	9.00	6	2	12	9.00	4	4	12	9.00	226	0	8	4.03	829
	10	15	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	8	1	12	39.17	6	2	6	39.17	4	2	12	9.00	6	4	6	9.00	4	4	12	9.00	226	0	8	4.52	841
Moment Break	20	16	16	10	8	39.00	4	3	12	12.66	9	2	6	38.50	8	2	6	39.50	4	3	12	12.66	4	2	12	9.00	6	4	6	9.00	4	4	12	9.00	230	0	8	4.90	874
	30	21	21	11	8	39.17	4	3	12	12.66	8	2	6	38.67	11	1	12	39.67	4	3	12	12.66	4	2	12	9.00	7	4	6	9.00	5	4	12	9.00	230	0	8	6.20	852
	40	26	26	13	8	39.50	4	3	12	12.66	8	2	6	39.00	11	1	12	40.00	4	3	12	12.66	4	2	12	9.00	6	4	6	9.00	5	4	12	9.00	230	0	8	7.59	836
	50	31	31	15	8	39.83	4	3	12	12.66	8	2	6	39.33	8	2	6	40.33	4	3	12	12.66	4	2	12	9.00	6	4	6	9.00	4	8	6	9.00	230	0	8	9.00	851
	60	34	34	16	8	40.00	4	3	12	12.66	9	2	6	39.50	9	2	6	40.50	4	3	12	12.66	4	2	12	9.00	6	4	6	9.00	7	4	12	9.00	234	0	8	9.83	998

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.



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: 3 BARRELS AT 12'-0"
 CLEAR HEIGHTS 7'-0" THRU 9'-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