

2 @ 18 x 9 REINFORCED CONCRETE BOX BRIDGE

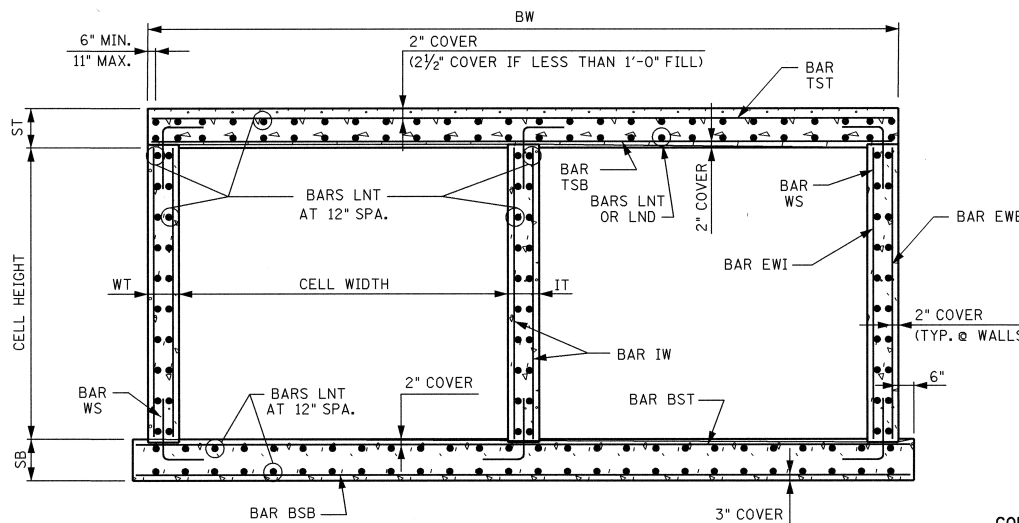
	Maximum Fill Height ft.	Dimensions					Bars TST		Bars TSB		Bars BST		Bars BSB		Bars EWE		Bars EW		Bars IW		Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF														
		ST in.	SB in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	No.			No.	No.												
Continuous	No Fill	12.5	12	8	8	38.00	7	2	6	37.50	8	2	6	37.50	5	2	6	38.50	8	2	6	38.50	4	2	12	9.00	5	2	12	9.00	4	2	12	9.00	170	72	6	3.58	924
	3	15	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	9.00	6	2	12	9.00	4	2	12	9.00	170	72	6	4.23	954
	5	16	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	9.00	5	4	6	9.00	4	2	12	9.00	208	0	6	4.47	943
	10	20	20	8	8	38.00	9	2	6	37.50	7	2	6	37.50	9	1	12	38.50	9	2	6	38.50	4	2	12	9.00	6	4	6	9.00	4	2	12	9.00	208	0	6	5.42	1098
Moment Break	20	20	20	9	8	38.17	4	2	12	18.66	11	2	6	37.67	10	2	6	38.67	4	2	12	18.66	4	2	12	9.00	7	4	6	9.00	5	2	12	9.00	208	0	6	5.50	1106
	30	29	29	11	8	38.50	4	2	12	18.66	10	2	6	38.00	10	2	6	39.00	4	2	12	18.66	4	2	12	9.00	6	4	6	9.00	4	4	6	9.00	208	0	6	7.81	1022
	40	36	36	13	8	38.83	4	2	12	18.66	10	2	6	38.33	10	2	6	39.33	4	2	12	18.66	4	2	12	9.00	5	4	6	9.00	5	4	6	9.00	208	0	6	9.69	1024
	50	41	42	14	8	39.00	4	2	12	18.66	10	2	6	38.50	10	2	6	39.50	4	2	12	18.66	4	2	12	9.00	7	2	12	9.00	6	4	6	9.00	212	0	6	11.12	1046
	60	46	47	15	9	39.25	4	2	12	18.66	10	2	6	38.75	10	2	6	39.75	4	2	12	18.66	4	2	12	9.00	6	2	12	9.00	6	4	6	9.00	212	0	6	12.49	1040

2 @ 18 x 10 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions					Bars TST		Bars TSB		Bars BST		Bars BSB		Bars EWE		Bars EW		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.	No.			No.	No.												
Continuous	No Fill	12.5	12	8	8	38.00	7	2	6	37.50	8	2	6	37.50	5	2	12	38.50	8	2	6	38.50	4	2	12	10.00	6	2	12	10.00	4	2	12	10.00	176	72	6	3.65	942
	3	15	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	10.00	5	4	6	10.00	4	2	12	10.00	176	72	6	4.31	975
	5	16	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	10.00	7	2	12	10.00	4	2	12	10.00	214	0	6	4.54	953
	10	20	20	8	8	38.00	9	2	6	37.50	7	2	6	37.50	9	1	12	38.50	9	2	6	38.50	4	2	12	10.00	7	4	6	10.00	4	2	12	10.00	214	0	6	5.49	1133
Moment Break	20	20	20	10	8	38.33	4	2	12	18.66	11	2	6	37.83	10	2	6	38.83	4	2	12	18.66	4	2	12	10.00	7	4	6	10.00	5	2	12	10.00	214	0	6	5.66	1125
	30	29	29	12	8	38.67	4	2	12	18.66	10	2	6	38.17	10	2	6	39.17	4	2	12	18.66	4	2	12	10.00	6	4	6	10.00	6	2	12	10.00	214	0	6	8.00	1042
	40	36	36	14	8	39.00	4	2	12	18.66	10	2	6	38.50	10	2	6	39.50	4	2	12	18.66	4	2	12	10.00	6	4	6	10.00	5	4	6	10.00	218	0	6	9.89	1062
	50	41	42	16	8	39.33	4	2	12	18.66	10	2	6	38.83	10	2	6	39.83	4	2	12	18.66	4	2	12	10.00	4	4	6	10.00	6	4	6	10.00	218	0	6	11.44	1053
	60	46	47	17	9	39.58	4	2	12	18.66	10	2	6	39.08	10	2	6	40.08	4	2	12	18.66	4	2	12	10.00	5	4	6	10.00	6	4	6	10.00	218	0	6	12.83	1072

2 @ 18 x 11 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions					Bars TST		Bars TSB		Bars BST		Bars BSB		Bars EWE		Bars EW		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.	No.			No.	No.												
Continuous	No Fill	12.5	12	8	8	38.00	7	2	6	37.50	8	2	6	37.50	5	2	12	38.50	8	2	6	38.50	4	2	12	11.00	6	2	12	11.00	4	2	12	11.00	182	72	6	3.73	952
	3	15	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	11.00	7	2	12	11.00	4	2	12	11.00	182	72	6	3.48	838
	5	16	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	8	1	12	38.50	8	2	6	38.50	4	2	12	11.00	7	4	6	11.00	4	2	12	11.00	220	0	6	3.48	838
	10	20	20	9	8	38.17	9	2	6	37.67	7	2	6	37.67	9	1	12	38.67	9	2	6	38.67	4	2	12	11.00	7	4	6	11.00	4	2	12	11.00	220	0	6	3.48	838
Moment Break	20	20	20	11	8	38.50	4	2	12	18.66	11	2	6	38.00	10	2	6	39.00	4	2	12	18.66	4	2	12	11.00	7	4	6	11.00	5	2	12	11.00	220	0	6	3.48	838
	30	29	30	13	8	38.83	4	2	12	18.66	10	2	6	38.33	10	2	6	39.33	4	2	12	18.66	4	2	12	11.00	7	4	6	11.00	6	2	12	11.00	220	0	6	3.48	838
	40	36	36	15	8	39.17	4	2	12	18.66	10	2	6	38.67	10	2	6	39.67	4	2	12	18.66	4	2	12	11.00	7	4	6	11.00	5	4	6	11.00	224	0	6	3.48	838
	50	41	42	17	8	39.50	4	2	12	18.66	10	2	6	39.00	10	2	6	40.00	4	2	12	18.66	4	2	12	11.00	6	4	6	11.00	6	4	6	11.00	224	0	6	3.48	838
	60	46	47	19	9	39.92	4	2	12	18.66	10	2	6	39.42	10	2	6	40.42	4	2	12	18.66	4	2	12	11.00	6	4	6	11.00	6	4	6	11.00	224	0	6	3.48	838



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 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 = 4 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