

1 @ 14 x 8 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	WT 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 Fill	10.5	8	15.33	4	1	12	14.83	9	2	6	14.83	4	2	12	6.50	5	2	12	6.50	45	28	2	2	1.67	1.06	253
3	13	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	6.50	5	2	12	6.50	45	28	2	2	1.67	1.18	232
5	12	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	6.50	5	2	12	6.50	60	0	2	2	1.67	1.13	212
10	14	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	6.50	5	2	12	6.50	60	0	2	2	1.67	1.22	212
20	17	8	15.33	4	1	12	14.83	9	2	6	14.83	4	2	12	6.50	5	2	12	6.50	60	0	2	2	1.67	1.37	234
30	23	9	15.50	4	1	12	15.00	9	2	6	15.00	4	2	12	6.50	6	2	12	6.50	62	0	2	2	1.75	1.71	243
40	29	10	15.67	4	1	12	15.17	9	2	6	15.17	4	2	12	6.50	5	2	12	6.50	62	0	2	2	1.83	2.06	238
50	33	11	15.83	4	1	12	15.33	9	2	6	15.33	4	2	12	6.50	5	2	12	6.50	62	0	2	2	1.92	2.32	239
60	37	12	16.00	4	1	12	15.50	9	2	6	15.50	4	2	12	6.50	5	2	12	6.50	62	0	2	2	2.00	2.59	241

1 @ 14 x 9 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	WT 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 Fill	10.5	8	15.33	4	1	12	14.83	9	2	6	14.83	4	2	12	7.50	5	2	12	7.50	49	28	2	2	1.67	1.11	259
3	13	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	7.50	5	2	12	7.50	49	28	2	2	1.67	1.23	238
5	12	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	7.50	5	2	12	7.50	64	0	2	2	1.67	1.18	219
10	14	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	7.50	6	2	12	7.50	64	0	2	2	1.67	1.27	225
20	17	8	15.33	4	1	12	14.83	9	2	6	14.83	4	2	12	7.50	6	4	6	7.50	64	0	2	2	1.67	1.42	270
30	23	10	15.67	4	1	12	15.17	9	2	6	15.17	4	2	12	7.50	5	4	6	7.50	64	0	2	2	1.83	1.83	259
40	29	11	15.83	4	1	12	15.33	9	2	6	15.33	4	2	12	7.50	6	2	12	7.50	64	0	2	2	1.92	2.19	251
50	33	12	16.00	4	1	12	15.50	9	2	6	15.50	4	2	12	7.50	6	2	12	7.50	66	0	2	2	2.00	2.46	254
60	37	13	16.17	4	1	12	15.67	9	2	6	15.67	4	2	12	7.50	5	2	12	7.50	66	0	2	2	2.08	2.74	248

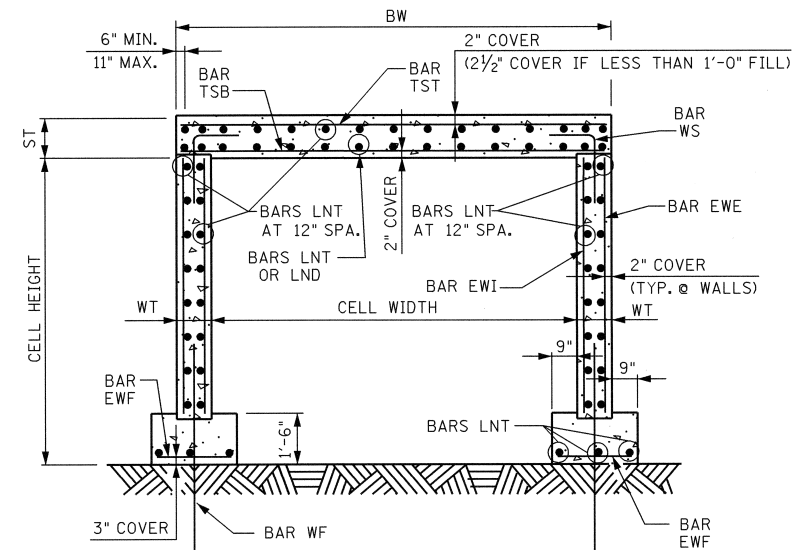
1 @ 14 x 10 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	WT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.							
No Fill	10.5	8	15.33	4	1	12	14.83	9	2	6	14.83	4	2	12	8.50	5	2	12	8.50	53	28	2	2	1.67	1.16	265
3	13	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	8.50	5	2	12	8.50	53	28	2	2	1.67	1.28	244
5	12	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	8.50	6	2	12	8.50	68	0	2	2	1.67	1.23	232
10	14	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	8.50	5	4	6	8.50	68	0	2	2	1.67	1.32	242
20	17	9	15.50	4	1	12	15.00	9	2	6	15.00	4	2	12	8.50	6	4	6	8.50	68	0	2	2	1.75	1.54	281
30	23	11	15.83	4	1	12	15.33	9	2	6	15.33	4	2	12	8.50	6	4	6	8.50	68	0	2	2	1.92	1.97	284
40	29	12	16.00	4	1	12	15.50	9	2	6	15.50	4	2	12	8.50	6	4	6	8.50	70	0	2	2	2.00	2.34	286
50	33	14	16.33	4	1	12	15.83	9	2	6	15.83	4	2	12	8.50	5	4	6	8.50	70	0	2	2	2.17	2.69	273
60	37	15	16.50	4	1	12	16.00	9	2	6	16.00	4	2	12	8.50	5	4	6	8.50	70	0	2	2	2.25	2.98	275

1 @ 14 x 11 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	WT 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 Fill	10.5	8	15.33	4	1	12	14.83	9	2	6	14.83	4	2	12	9.50	5	2	12	9.50	57	28	2	2	1.67	1.21	272
3	13	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	9.50	6	2	12	9.50	57	28	2	2	1.67	1.33	259
5	12	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	9.50	6	2	12	9.50	72	0	2	2	1.67	1.28	239
10	14	8	15.33	4	1	12	14.83	8	2	6	14.83	4	2	12	9.50	6	4	6	9.50	72	0	2	2	1.67	1.37	268
20	17	10	15.67	4	1	12	15.17	9	2	6	15.17	4	2	12	9.50	6	4	6	9.50	72	0	2	2	1.83	1.67	292
30	23	12	16.00	4	1	12	15.50	9	2	6	15.50	4	2	12	9.50	6	4	6	9.50	74	0	2	2	2.00	2.12	296
40	29	14	16.33	4	1	12	15.83	9	2	6	15.83	4	2	12	9.50	6	4	6	9.50	74	0	2	2	2.17	2.58	299
50	33	15	16.50	4	1	12	16.00	9	2	6	16.00	4	2	12	9.50	6	4	6	9.50	74	0	2	2	2.25	2.87	300
60	37	17	16.83	4	1	12	16.33	9	2	6	16.33	4	2	12	9.50	6	4	6	9.50	74	0	2	2	2.42	3.24	303

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.
 Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
 Bars EWF Size = 4 No. = 2 Spacing = 12 in.

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



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
 SLAB BRIDGE
 INTERIOR SECTION
 SPANS: 1 BARREL AT 14'-0"
 CLEAR HEIGHTS 8'-0" THRU 11'-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/RJC DATE: 12-09
 CHECKED BY: RLL/ALP DATE: 2-10

C:\Users\epw\Documents\Projects\119#120#121_1BARREL_SLAB14'.DGN
 File: 1-6-10\14' - 50mm\STD-17-119#120#121_1BARREL_SLAB14'.DGN