

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

1 @ 16 x 13 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bar 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.	No.	No.	No.	Length ft.		
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	11.50	4	4	6	11.50	67	32	2	2	1.66	1.42	273
3	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	11.50	7	2	12	11.50	67	32	2	2	1.66	1.45	290
5	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	11.50	8	2	12	11.50	84	0	2	2	1.66	1.45	294
10	13	9	17.50	4	1	12	17.00	9	2	6	17.00	4	2	12	11.50	9	2	12	11.50	84	0	2	2	1.75	1.59	337
20	16	12	18.00	4	1	12	17.50	10	2	6	17.50	4	2	12	11.50	8	2	12	11.50	86	0	2	2	2	2.01	357
30	25	14	18.33	4	1	12	17.83	9	2	6	17.83	4	2	12	11.50	6	4	6	11.50	86	0	2	2	2.16	2.70	336
40	31	16	18.67	4	1	12	18.16	9	2	6	18.16	4	2	12	11.50	8	2	12	11.50	86	0	2	2	2.33	3.23	331
50	36	18	19.00	4	1	12	18.50	10	2	6	18.50	4	2	12	11.50	8	2	12	11.50	88	0	2	2	2.5	3.72	369
60	40	20	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	11.50	8	2	12	11.50	88	0	2	2	2.66	4.15	372

1 @ 16 x 14 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bar 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.	No.	No.	No.	Length ft.		
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	12.50	7	2	12	12.50	71	32	2	2	1.66	1.47	298
3	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	12.50	6	4	6	12.50	71	32	2	2	1.66	1.50	322
5	12	9	17.50	4	1	12	17.00	11	1	12	17.00	4	2	12	12.50	8	2	12	12.50	88	0	2	2	1.75	1.59	305
10	13	10	17.67	4	1	12	17.16	9	2	6	17.16	4	2	12	12.50	9	2	12	12.50	88	0	2	2	1.83	1.73	350
20	16	13	18.17	4	1	12	17.66	10	2	6	17.66	4	2	12	12.50	6	4	6	12.50	90	0	2	2	2.08	2.18	377
30	25	15	18.50	4	1	12	18.00	9	2	6	18.00	4	2	12	12.50	6	4	6	12.50	90	0	2	2	2.25	2.89	348
40	31	18	19.00	4	1	12	18.50	9	2	6	18.50	4	2	12	12.50	6	4	6	12.50	92	0	2	2	2.5	3.54	353
50	36	20	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	12.50	8	2	12	12.50	92	0	2	2	2.66	4.04	381
60	40	21	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	12.50	6	4	6	12.50	92	0	2	2	2.75	4.38	391

1 @ 16 x 15 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bar 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.	No.	No.	No.	Length ft.		
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	13.50	6	4	6	13.50	75	32	2	2	1.66	1.52	331
3	12	9	17.50	4	1	12	17.00	11	1	12	17.00	4	2	12	13.50	8	2	12	13.50	75	32	2	2	1.75	1.64	323
5	12	9	17.50	4	1	12	17.00	11	1	12	17.00	4	2	12	13.50	7	4	6	13.50	92	0	2	2	1.75	1.64	352
10	13	11	17.83	4	1	12	17.33	9	2	6	17.33	4	2	12	13.50	7	4	6	13.50	92	0	2	2	1.91	1.90	380
20	16	14	18.33	4	1	12	17.83	10	2	6	17.83	4	2	12	13.50	9	2	12	13.50	94	0	2	2	2.16	2.36	399
30	25	16	18.57	4	1	12	18.16	9	2	6	18.16	4	2	12	13.50	7	4	6	13.50	94	0	2	2	2.33	3.08	388
40	31	19	19.17	4	1	12	18.66	9	2	6	18.66	4	2	12	13.50	9	2	12	13.50	96	0	2	2	2.58	3.75	375
50	36	21	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	13.50	9	2	12	13.50	96	0	2	2	2.75	4.27	412
60	40	23	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	13.50	6	4	6	13.50	96	0	2	2	2.91	4.74	405

1 @ 16 x 16 REINFORCED CONCRETE SLAB BRIDGE																										
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bar 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.	No.	No.	No.	Length ft.		
No Fill	11.5	9	17.50	4	1	12	17.00	11	1	12	17.00	4	2	12	14.50	8	2	12	14.50	79	32	2	2	1.75	1.67	333
3	12	9	17.50	4	1	12	17.00	11	1	12	17.00	4	2	12	14.50	7	4	6	14.50	79	32	2	2	1.75	1.70	374
5	12	10	17.67	4	1	12	17.16	11	1	12	17.16	4	2	12	14.50	7	4	6	14.50	96	0	2	2	1.83	1.80	365
10	13	11	17.83	4	1	12	17.33	9	2	6	17.33	4	2	12	14.50	11	2	12	14.50	96	0	2	2	1.91	1.96	428
20	16	15	18.50	4	1	12	18.00	10	2	6	18.00	4	2	12	14.50	7	4	6	14.50	98	0	2	2	2.25	2.56	431
30	25	18	19.00	4	1	12	18.50	9	2	6	18.50	4	2	12	14.50	9	2	12	14.50	100	0	2	2	2.5	3.41	385
40	31	20	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	14.50	7	4	6	14.50	100	0	2	2	2.66	3.99	407
50	36	23	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	14.50	9	2	12	14.50	100	0	2	2	2.91	4.64	426
60	40	25	20.17	4	1	12	19.66	10	2	6	19.66	4	2	12	14.50	9	2	12	14.50	102	0	2	2	3.08	5.12	431

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 top slab is the riding surface (No Fill), the concrete cover to the top mat of reinforcing shall be 2-1/2 inches.

The following bar information applies to all fill cases in the table 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.
Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
Bars EWF Size = 4 No. = 2 Spacing = 12 in.

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-15-4.
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STANDARD REINFORCED CONCRETE
SLAB BRIDGE
INTERIOR SECTION
SPANS: 1 BARREL AT 16'-0"
CLEAR HEIGHTS 13'-0" THRU 16'-0"
0' THRU 60' FILL
2000

CORRECT *Edward P. Wasserman*
ENGINEER OF STRUCTURES

DESIGNED BY JOHN PHILLIPS DATE 1-00
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY JOHN PHILLIPS DATE 6-00