

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

3 @ 14 x 12 REINFORCED CONCRETE SLAB BRIDGE																																
Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW		Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF			
	ST 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.	No.	No.	No.	No.	Length ft.			
	No Fill	10.5	8	8	44.67	7	2	6	44.16	6	2	6	44.16	4	2	12	10.50	5	2	12	10.50	4	4	12	10.50	136	42	4	4	1.66	2.96	634
	3	10	8	8	44.67	10	1	12	44.16	7	2	6	44.16	4	2	12	10.50	4	4	6	10.50	4	4	12	10.50	136	42	4	4	1.66	2.89	697
	5	10	8	8	44.67	10	1	12	44.16	6	2	6	44.16	4	2	12	10.50	7	2	12	10.50	4	4	12	10.50	180	0	4	4	1.66	2.89	649
	10	13	9	8	44.83	9	1	12	44.33	8	1	12	44.33	4	2	12	10.50	8	2	12	10.50	4	4	12	10.50	180	0	4	4	1.75	3.39	609
	20	15	11	8	45.17	4	3	12	14.66	9	2	6	44.66	4	2	12	10.50	8	2	12	10.50	4	4	12	10.50	182	0	4	4	1.91	3.83	675
	30	22	13	8	45.50	4	3	12	14.66	9	2	6	45.00	4	2	12	10.50	8	2	12	10.50	5	4	12	10.50	182	0	4	4	2.08	4.97	693
	40	28	15	8	45.83	4	3	12	14.66	9	2	6	45.33	4	2	12	10.50	8	2	12	10.50	4	8	6	10.50	182	0	4	4	2.25	5.99	708
	50	32	17	8	46.17	4	3	12	14.66	9	2	6	45.66	4	2	12	10.50	8	2	12	10.50	7	4	12	10.50	184	0	4	4	2.41	6.74	741
	60	36	18	8	46.33	4	3	12	14.66	9	2	6	45.83	4	2	12	10.50	5	4	6	10.50	7	4	12	10.50	184	0	4	4	2.5	7.40	730

3 @ 14 x 13 REINFORCED CONCRETE SLAB BRIDGE																																
Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW		Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF			
	ST 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.	No.	No.	No.	No.	Length ft.			
	No Fill	10.5	8	8	44.67	7	2	6	44.16	6	2	6	44.16	4	2	12	11.50	4	4	6	11.50	4	4	12	11.50	144	42	4	4	1.66	3.06	669
	3	10	8	8	44.67	10	1	12	44.16	7	2	6	44.16	4	2	12	11.50	7	2	12	11.50	5	4	12	11.50	144	42	4	4	1.66	2.99	742
	5	10	8	8	44.67	10	1	12	44.16	6	2	6	44.16	4	2	12	11.50	6	4	6	11.50	5	4	12	11.50	188	0	4	4	1.66	2.99	703
	10	13	9	8	44.83	9	1	12	44.33	8	1	12	44.33	4	2	12	11.50	7	4	6	11.50	5	4	12	11.50	188	0	4	4	1.75	3.49	674
	20	15	12	8	45.33	4	3	12	14.66	9	2	6	44.83	4	2	12	11.50	6	4	6	11.50	5	4	12	11.50	190	0	4	4	2	4.03	716
	30	22	14	8	45.67	4	3	12	14.66	9	2	6	45.16	4	2	12	11.50	8	2	12	11.50	5	4	12	11.50	190	0	4	4	2.16	5.19	710
	40	28	16	8	46.00	4	3	12	14.66	9	2	6	45.50	4	2	12	11.50	8	2	12	11.50	4	8	6	11.50	192	0	4	4	2.33	6.23	727
	50	32	18	8	46.33	4	3	12	14.66	9	2	6	45.83	4	2	12	11.50	7	4	12	11.50	7	4	12	11.50	192	0	4	4	2.5	6.99	762
	60	36	20	8	46.67	4	3	12	14.66	9	2	6	46.16	4	2	12	11.50	8	2	12	11.50	7	4	12	11.50	192	0	4	4	2.66	7.76	765

3 @ 14 x 14 REINFORCED CONCRETE SLAB BRIDGE																																
Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW		Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete CY/LF	Reinf. Steel LB/LF			
	ST 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.	No.	No.	No.	No.	Length ft.			
	No Fill	10.5	8	8	44.67	7	2	6	44.16	6	2	6	44.16	4	2	12	12.50	7	2	12	12.50	5	4	12	12.50	152	42	4	4	1.66	3.16	700
	3	10	8	8	44.67	10	1	12	44.16	7	2	6	44.16	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	152	42	4	4	1.66	3.09	781
	5	10	9	8	44.83	10	1	12	44.33	6	2	6	44.33	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	196	0	4	4	1.75	3.18	720
	10	13	10	8	45.00	9	1	12	44.50	8	1	12	44.50	4	2	12	12.50	7	4	6	12.50	5	4	12	12.50	198	0	4	4	1.83	3.69	695
	20	15	13	8	45.50	4	3	12	14.66	9	2	6	45.00	4	2	12	12.50	9	2	12	12.50	5	4	12	12.50	198	0	4	4	2.08	4.25	743
	30	22	15	8	45.83	4	3	12	14.66	9	2	6	45.33	4	2	12	12.50	9	2	12	12.50	5	4	12	12.50	198	0	4	4	2.25	5.43	748
	40	28	18	8	46.33	4	3	12	14.66	9	2	6	45.83	4	2	12	12.50	6	4	6	12.50	4	8	6	12.50	200	0	4	4	2.5	6.58	756
	50	32	20	8	46.67	4	3	12	14.66	9	2	6	46.16	4	2	12	12.50	6	4	6	12.50	7	4	12	12.50	200	0	4	4	2.66	7.36	794
	60	36	22	8	47.00	4	3	12	14.66	9	2	6	46.50	4	2	12	12.50	8	2	12	12.50	7	4	12	12.50	202	0	4	4	2.83	8.14	789

Note: Maximum fill height 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 = 5 Spacing = 12 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.
Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
Bars MW Size = 4 No. = 2 Spacing = 12 in. Length = 1.66 ft.
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: 3 BARREL AT 14'-0"
CLEAR HEIGHTS 12'-0" THRU 14'-0"
0' THRU 60' FILL
2000

DESIGNED BY STEPHANIE HASTINGS DATE 12-99
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY STEPHANIE HASTINGS DATE 6-00

CORRECT *Edward P. Wasserman*
ENGINEER OF STRUCTURES