1 @ 16 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	Reinf. Steel
	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.	CY/LF	LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	7.50	5	2	12	7.50	51	32	2	2	1.67	1.23	280
3	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	7.50	5	2	12	7.50	51	32	2	2	1.67	1.36	255
5	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	7.50	5	2	12	7.50	68	0	2	2	1.67	1.36	233
10	15	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	7.50	6	2	12	7.50	68	0	2	2	1.67	1.41	265
20	19	8	17.33	4	1	12	16.83	10	2	6	16.83	4	2	12	7.50	7	2	12	7.50	68	0	2	2	1.67	1.63	303
30	26	10	17.67	4	1	12	17.17	9	2	6	17.17	4	2	12	7.50	6	2	12	7.50	68	0	2	2	1.83	2.14	267
40	32	11	17.83	4	1	12	17.33	9	2	6	17.33	4	2	12	7.50	6	2	12	7.50	68	0	2	2	1.92	2.54	269
50	37	12	18.00	4	1	12	17.50	10	2	6	17.50	4	2	12	7.50	5	2	12	7.50	70	0	2	2	2.00	2.89	296
60	41	13	18.17	4	1	12	17.67	10	2	6	17.67	4	2	12	7.50	5	2	12	7.50	70	0	2	2	2.08	3.19	298

1 @ 16 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	Reinf. Steel
	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.	CY/LF	LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	8.50	5	2	12	8.50	55	32	2	2	1.67	1.28	286
3	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	8.50	5	2	12	8.50	55	32	2	2	1.67	1.41	261
5	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	8.50	6	2	12	8.50	72	0	2	2	1.67	1.41	247
10	15	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	8.50	7	2	12	8.50	72	0	2	2	1.67	1.46	281
20	19	9	17.50	4	1	12	17.00	10	2	6	17.00	4	2	12	8.50	6	4	6	8.50	72	0	2	2	1.75	1.75	329
30	26	11	17.83	4	1	12	17.33	9	2	6	17.33	4	2	12	8.50	7	2	12	8.50	72	0	2	2	1.92	2.28	285
40	32	12	18.00	4	1	12	17.50	9	2	6	17.50	4	2	12	8.50	5	4	6	8.50	74	0	2	2	2.00	2.69	288
50	37	14	18.33	4	1	12	17.83	10	2	6	17.83	4	2	12	8.50	6	2	12	8.50	74	0	2	2	2.17	3.12	313
60	41	15	18.50	4	1	12	18.00	10	2	6	18.00	4	2	12	8.50	6	2	12	8.50	74	0	2	2	2.25	3.43	315

1 @ 16 x 11 REINFORCED CONCRETE SLAB BRIDGE

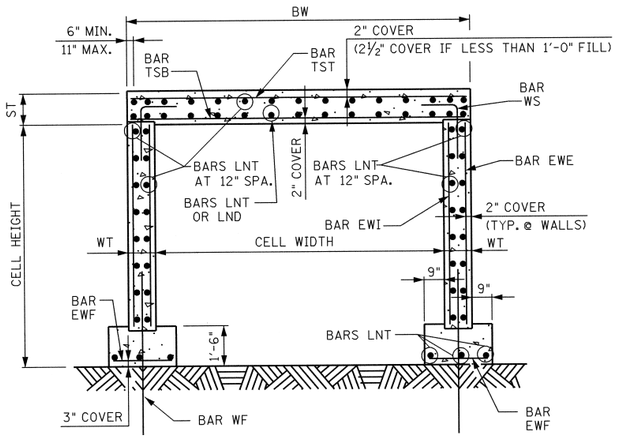
Fill Height ft.	Dimensions			Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Concrete	Reinf. Steel
	ST in.	WT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	No.	No.	No.	No.	Length ft.	CY/LF	LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	9.50	5	2	12	9.50	59	32	2	2	1.67	1.33	292
3	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	9.50	6	2	12	9.50	59	32	2	2	1.67	1.46	276
5	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	9.50	6	2	12	9.50	76	0	2	2	1.67	1.46	254
10	15	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	9.50	6	4	6	9.50	76	0	2	2	1.67	1.51	307
20	19	10	17.67	4	1	12	17.17	10	2	6	17.17	4	2	12	9.50	7	4	6	9.50	76	0	2	2	1.83	1.88	362
30	26	12	18.00	4	1	12	17.50	9	2	6	17.50	4	2	12	9.50	6	4	6	9.50	78	0	2	2	2.00	2.43	314
40	32	13	18.17	4	1	12	17.67	9	2	6	17.67	4	2	12	9.50	6	4	6	9.50	78	0	2	2	2.08	2.84	315
50	37	15	18.50	4	1	12	18.00	10	2	6	18.00	4	2	12	9.50	6	4	6	9.50	78	0	2	2	2.25	3.30	351
60	41	16	18.67	4	1	12	18.17	10	2	6	18.17	4	2	12	9.50	6	4	6	9.50	78	0	2	2	2.33	3.62	352

1 @ 16 x 12 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	Reinf. Steel
	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.	CY/LF	LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	10.50	6	2	12	10.50	63	32	2	2	1.67	1.37	308
3	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	10.50	6	2	12	10.50	63	32	2	2	1.67	1.51	283
5	14	8	17.33	4	1	12	16.83	8	2	6	16.83	4	2	12	10.50	6	4	6	10.50	80	0	2	2	1.67	1.51	293
10	15	9	17.50	4	1	12	17.00	9	2	6	17.00	4	2	12	10.50	6	4	6	10.50	80	0	2	2	1.75	1.64	319
20	19	11	17.83	4	1	12	17.33	10	2	6	17.33	4	2	12	10.50	7	4	6	10.50	80	0	2	2	1.92	2.03	375
30	26	13	18.17	4	1	12	17.67	9	2	6	17.67	4	2	12	10.50	7	4	6	10.50	82	0	2	2	2.08	2.59	348
40	32	15	18.50	4	1	12	18.00	9	2	6	18.00	4	2	12	10.50	6	4	6	10.50	82	0	2	2	2.25	3.10	328
50	37	17	18.83	4	1	12	18.33	10	2	6	18.33	4	2	12	10.50	6	4	6	10.50	82	0	2	2	2.42	3.58	364
60	41	18	19.00	4	1	12	18.50	10	2	6	18.50	4	2	12	10.50	6	4	6	10.50	84	0	2	2	2.50	3.90	367

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.



TYPICAL SECTION

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-17-5.

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD REINFORCED CONCRETE SLAB BRIDGE
INTERIOR SECTION
SPANS: 1 BARREL AT 16'-0"
CLEAR HEIGHTS 9'-0" THRU 12'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-123

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

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