CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 16 x 9 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	7.50	4	2	12	7.50	51	32	2	2	1.66	1.22	236
3	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	7.50	4	2	12	7.50	51	32	2	2	1.66	1.25	236
5	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	7.50	4	2	12	7.50	68	0	2	2	1.66	1.25	226
10	13	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	7.50	5	2	12	7.50	68	0	2	2	1.66	1.30	257
20	16	8	17.33	4	1	12	16.83	10	2	6	16.83	4	2	12	7.50	6	2	12	7.50	68	0	2	2	1.66	1.46	294
30	25	10	17.67	4	1	12	17.16	9	2	6	17.16	4	2	12	7.50	5	2	12	7.50	68	0	2	2	1.83	2.08	260
40	31	11	17.83	4	1	12	17.33	9	2	6	17.33	4	2	12	7.50	5	2	12	7.50	68	0	2	2	1.91	2.48	261
50	36	12	18.00	4	1	12	17.50	10	2	6	17.50	4	2	12	7.50	4	2	12	7.50	70	0	2	2	2	2.83	290
60	40	13	18.17	4	1	12	17.66	10	2	6	17.66	4	2	12	7.50	4	2	12	7.50	70	0	2	2	2.08	3.13	292

1 @ 16 x 10 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	8.50	4	2	12	8.50	55	32	2	2	1.66	1.27	242
3	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	8.50	4	2	12	8.50	55	32	2	2	1.66	1.30	242
5	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	8.50	5	2	12	8.50	72	0	2	2	1.66	1.30	238
10	13	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	8.50	6	2	12	8.50	72	0	2	2	1.66	1.35	271
20	16	9	17.50	4	1	12	17.00	10	2	6	17.00	4	2	12	8.50	7	2	12	8.50	72	0	2	2	1.75	1.58	312
30	25	11	17.83	4	1	12	17.33	9	2	6	17.33	4	2	12	8.50	6	2	12	8.50	72	0	2	2	1.91	2.22	275
40	31	12	18.00	4	1	12	17.50	9	2	6	17.50	4	2	12	8.50	4	4	6	8.50	74	0	2	2	2	2.62	275
50	36	14	18.33	4	1	12	17.83	10	2	6	17.83	4	2	12	8.50	5	2	12	8.50	74	0	2	2	2.16	3.06	305
60	40	15	18.50	4	1	12	18.00	10	2	6	18.00	4	2	12	8.50	5	2	12	8.50	74	0	2	2	2.25	3.37	306

1 @ 16 x 11 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	9.50	4	2	12	9.50	59	32	2	2	1.66	1.32	248
3	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	9.50	5	2	12	9.50	59	32	2	2	1.66	1.35	255
5	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	9.50	5	2	12	9.50	76	0	2	2	1.66	1.35	245
10	13	8	17.33	4	1	12	16.83	9	2	6	16.83	4	2	12	9.50	7	2	12	9.50	76	0	2	2	1.66	1.40	289
20	16	10	17.67	4	1	12	17.16	10	2	6	17.16	4	2	12	9.50	8	2	12	9.50	76	0	2	2	1.83	1.71	334
30	25	12	18.00	4	1	12	17.50	9	2	6	17.50	4	2	12	9.50	7	2	12	9.50	78	0	2	2	2	2.37	295
40	31	13	18.17	4	1	12	17.66	9	2	6	17.66	4	2	12	9.50	7	2	12	9.50	78	0	2	2	2.08	2.78	296
50	36	15	18.50	4	1	12	18.00	10	2	6	18.00	4	2	12	9.50	7	2	12	9.50	78	0	2	2	2.25	3.24	332
60	40	16	18.67	4	1	12	18.16	10	2	6	18.16	4	2	12	9.50	7	2	12	9.50	78	0	2	2	2.33	3.55	333

1 @ 16 x 12 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	10.50	5	2	12	10.50	63	32	2	2	1.66	1.37	260
3	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	10.50	5	2	12	10.50	63	32	2	2	1.66	1.40	260
5	12	8	17.33	4	1	12	16.83	11	1	12	16.83	4	2	12	10.50	7	2	12	10.50	80	0	2	2	1.66	1.40	271
10	13	9	17.50	4	1	12	17.00	9	2	6	17.00	4	2	12	10.50	5	2	6	10.50	80	0	2	2	1.75	1.53	298
20	16	11	17.83	4	1	12	17.33	10	2	6	17.33	4	2	12	10.50	8	2	12	10.50	80	0	2	2	1.91	1.86	345
30	25	13	18.17	4	1	12	17.66	9	2	6	17.66	4	2	12	10.50	8	2	12	10.50	82	0	2	2	2.09	2.53	318
40	31	15	18.50	4	1	12	18.00	9	2	6	18.00	4	2	12	10.50	5	2	6	10.50	82	0	2	2	2.25	3.04	309
50	36	17	18.83	4	1	12	18.33	10	2	6	18.33	4	2	12	10.50	7	2	12	10.50	82	0	2	2	2.41	3.51	343
60	40	18	19.00	4	1	12	18.50	10	2	6	18.50	4	2	12	10.50	7	2	12	10.50	84	0	2	2	2.5	3.84	346

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 9'-0" THRU 12'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-105

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

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05/05/2000