CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 10 x 4 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT 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.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	32.67	6	2	6	32.17	6	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	60	30	4	4	1.67	1.67	1.71	402
	3	13	8	8	32.67	9	1	12	32.17	6	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	60	30	4	4	1.67	1.67	1.86	415
	5	12	8	8	32.67	6	2	6	32.17	6	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	92	0	4	4	1.67	1.67	1.76	392
	10	13	8	8	32.67	6	2	6	32.17	5	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	92	0	4	4	1.67	1.67	1.86	362
Moment Break	20	12	8	8	32.67	4	3	12	10.66	8	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	92	0	4	4	1.67	1.67	1.76	392
	30	18	8	8	32.67	4	3	12	10.66	7	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	92	0	4	4	1.67	1.67	2.36	351
	40	22	8	8	32.67	4	3	12	10.66	7	2	6	32.17	4	2	12	2.50	5	2	12	2.50	5	4	12	2.50	92	0	4	4	1.67	1.67	2.76	355
	50	25	8	8	32.67	4	3	12	10.66	8	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	8	6	2.50	92	0	4	4	1.67	1.67	3.07	398
	60	29	8	8	32.67	4	3	12	10.66	8	2	6	32.17	4	2	12	2.50	5	2	12	2.50	4	8	6	2.50	92	0	4	4	1.67	1.67	3.47	398

3 @ 10 x 5 REINFORCED CONCRETE SLAB BRIDGE

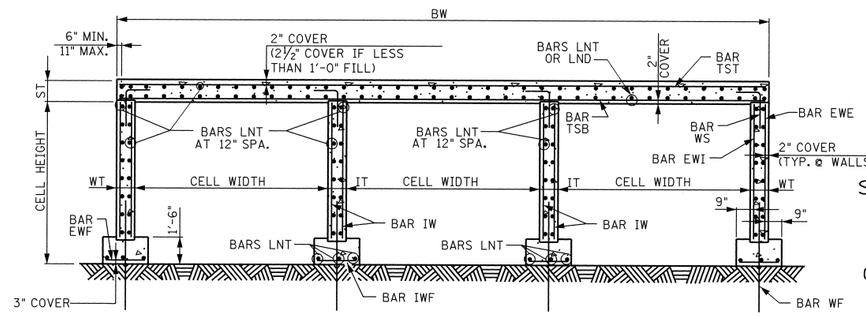
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	32.67	6	2	6	32.17	6	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	68	30	4	4	1.67	1.67	1.78	413
	3	13	8	8	32.67	9	1	12	32.17	6	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	68	30	4	4	1.67	1.67	1.93	426
	5	12	8	8	32.67	6	2	6	32.17	6	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	100	0	4	4	1.67	1.67	1.83	403
	10	13	8	8	32.67	6	2	6	32.17	5	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	100	0	4	4	1.67	1.67	1.93	374
Moment Break	20	12	8	8	32.67	4	3	12	10.66	8	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	100	0	4	4	1.67	1.67	1.83	403
	30	18	8	8	32.67	4	3	12	10.66	7	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	100	0	4	4	1.67	1.67	2.44	363
	40	22	8	8	32.67	4	3	12	10.66	7	2	6	32.17	4	2	12	3.50	5	2	12	3.50	5	4	12	3.50	100	0	4	4	1.67	1.67	2.84	368
	50	25	8	8	32.67	4	3	12	10.66	8	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	8	6	3.50	100	0	4	4	1.67	1.67	3.14	413
	60	29	8	8	32.67	4	3	12	10.67	8	2	6	32.17	4	2	12	3.50	5	2	12	3.50	4	8	6	3.50	100	0	4	4	1.67	1.67	3.54	413

3 @ 10 x 6 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT 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.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	32.67	6	2	6	32.17	6	2	6	32.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	76	30	4	4	1.67	1.67	1.85	425
	3	13	8	8	32.67	9	1	12	32.17	6	2	6	32.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	76	30	4	4	1.67	1.67	2.01	437
	5	12	8	8	32.67	6	2	6	32.17	6	2	6	32.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	108	0	4	4	1.67	1.67	1.90	415
	10	13	8	8	32.67	6	2	6	32.17	5	2	6	32.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	108	0	4	4	1.67	1.67	2.01	385
Moment Break	20	12	8	8	32.67	4	3	12	10.66	8	2	6	32.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	108	0	4	4	1.67	1.67	1.90	415
	30	18	8	8	32.67	4	3	12	10.66	7	2	6	32.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	108	0	4	4	1.67	1.67	2.51	374
	40	22	8	8	32.67	4	3	12	10.66	7	2	6	32.17	4	2	12	4.50	5	2	12	4.50	5	4	12	4.50	108	0	4	4	1.67	1.67	2.91	381
	50	25	9	8	32.83	4	3	12	10.66	8	2	6	32.33	4	2	12	4.50	5	2	12	4.50	4	8	6	4.50	108	0	4	4	1.75	1.67	3.26	428
	60	29	9	8	32.83	4	3	12	10.66	8	2	6	32.33	4	2	12	4.50	5	2	12	4.50	4	8	6	4.50	108	0	4	4	1.75	1.67	3.67	428

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 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 = 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 IWF Size = 4 No. = 2 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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD REINFORCED CONCRETE SLAB BRIDGE INTERIOR SECTION SPANS: 3 BARRELS AT 10'-0" CLEAR HEIGHTS 4'-0" THRU 6'-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/RLC	DATE	12-09
CHECKED BY	RLL/ALP	DATE	2-10

STD-17-154

Plotted: 20-JAN-2010 08:58:58
By: Kevin Martinko
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