CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 18 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	12.5	8	8	38.00	7	2	6	37.50	8	2	6	37.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	71	72	3	3	1.67	1.67	2.16	562
	3	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	71	72	3	3	1.67	1.67	2.45	561
	5	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	109	0	3	3	1.67	1.67	2.57	539
	10	20	8	8	38.00	9	2	6	37.50	7	2	6	37.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	109	0	3	3	1.67	1.67	3.04	594
Moment Break	20	20	8	8	38.00	4	2	12	18.66	11	2	6	37.50	4	2	12	4.50	5	2	12	4.50	5	2	12	4.50	109	0	3	3	1.67	1.67	3.04	612
	30	29	8	8	38.00	4	2	12	18.66	10	2	6	37.50	4	2	12	4.50	5	2	12	4.50	4	4	6	4.50	109	0	3	3	1.67	1.67	4.10	539
	40	36	8	8	38.00	4	2	12	18.66	10	2	6	37.50	4	2	12	4.50	5	2	12	4.50	5	4	6	4.50	109	0	3	3	1.67	1.67	4.92	546
	50	41	8	8	38.00	4	2	12	18.66	10	2	6	37.50	4	2	12	4.50	6	4	6	4.50	6	4	6	4.50	109	0	3	3	1.67	1.67	5.50	572
	60	46	9	9	38.25	4	2	12	18.66	10	2	6	37.75	4	2	12	4.50	5	2	12	4.50	6	4	6	4.50	109	0	3	3	1.75	1.75	6.18	557

2 @ 18 x 7 REINFORCED CONCRETE SLAB BRIDGE

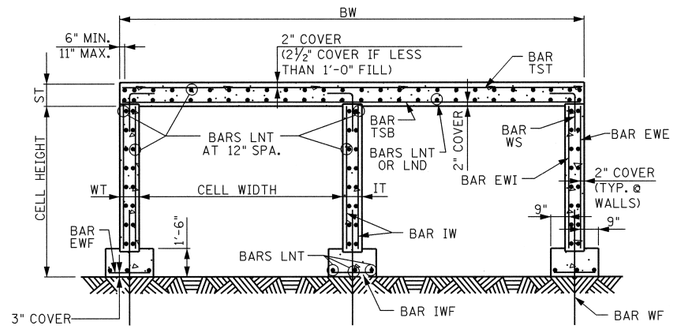
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	12.5	8	8	38.00	7	2	6	37.50	8	2	6	37.50	4	2	12	5.50	5	2	12	5.50	4	2	12	5.50	77	72	3	3	1.67	1.67	2.23	571
	3	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	5.50	5	2	12	5.50	4	2	12	5.50	77	72	3	3	1.67	1.67	2.53	570
	5	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	4	2	12	5.50	5	2	12	5.50	4	2	12	5.50	115	0	3	3	1.67	1.67	2.65	548
	10	20	8	8	38.00	9	2	6	37.50	7	2	6	37.50	4	2	12	5.50	5	2	12	5.50	4	2	12	5.50	115	0	3	3	1.67	1.67	3.11	603
Moment Break	20	20	8	8	38.00	4	2	12	18.66	11	2	6	37.50	4	2	12	5.50	5	2	12	5.50	5	2	12	5.50	115	0	3	3	1.67	1.67	3.11	622
	30	29	8	8	38.00	4	2	12	18.66	10	2	6	37.50	4	2	12	5.50	5	2	12	5.50	4	4	6	5.50	115	0	3	3	1.67	1.67	4.17	549
	40	36	9	8	38.17	4	2	12	18.66	10	2	6	37.67	4	2	12	5.50	5	2	12	5.50	5	4	6	5.50	115	0	3	3	1.75	1.67	5.05	559
	50	41	9	8	38.17	4	2	12	18.66	10	2	6	37.67	4	2	12	5.50	6	4	6	5.50	6	4	6	5.50	115	0	3	3	1.75	1.67	5.64	591
	60	46	10	9	38.42	4	2	12	18.66	10	2	6	37.92	4	2	12	5.50	5	4	6	5.50	6	4	6	5.50	115	0	3	3	1.83	1.75	6.33	583

2 @ 18 x 8 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	12.5	8	8	38.00	7	2	6	37.50	8	2	6	37.50	4	2	12	6.50	5	2	12	6.50	4	2	12	6.50	83	72	3	3	1.67	1.67	2.31	579
	3	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	6.50	5	2	12	6.50	4	2	12	6.50	83	72	3	3	1.67	1.67	2.60	578
	5	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	4	2	12	6.50	5	2	12	6.50	4	2	12	6.50	121	0	3	3	1.67	1.67	2.72	557
	10	20	8	8	38.00	9	2	6	37.50	7	2	6	37.50	4	2	12	6.50	5	2	12	6.50	4	2	12	6.50	121	0	3	3	1.67	1.67	3.19	612
Moment Break	20	20	8	8	38.00	4	2	12	18.66	11	2	6	37.50	4	2	12	6.50	5	2	12	6.50	5	2	12	6.50	121	0	3	3	1.67	1.67	3.19	631
	30	29	8	8	38.00	4	2	12	18.66	10	2	6	37.50	4	2	12	6.50	7	4	6	6.50	4	4	6	6.50	121	0	3	3	1.67	1.67	4.24	599
	40	36	10	8	38.33	4	2	12	18.66	10	2	6	37.83	4	2	12	6.50	5	2	12	6.50	5	4	6	6.50	121	0	3	3	1.83	1.67	5.20	572
	50	41	10	8	38.33	4	2	12	18.66	10	2	6	37.83	4	2	12	6.50	7	4	6	6.50	6	4	6	6.50	121	0	3	3	1.83	1.67	5.79	624
	60	46	11	9	38.58	4	2	12	18.66	10	2	6	38.08	4	2	12	6.50	7	4	6	6.50	6	4	6	6.50	121	0	3	3	1.92	1.75	6.49	626

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 = 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 IWF Size = 4 No. = 1 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: 2 BARRELS AT 18'-0" CLEAR HEIGHTS 6'-0" THRU 8'-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-17-145

DGN: "C:\Data\Roadway\Bridges\1-6-10\Official Culvert Files 1-6-10\18 Span\STD-17-145¢146¢147¢148_2BarrelSlab18'.dgn
DATE: 2/2/2010
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