CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 12 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	38.67	7	2	6	38.17	7	2	6	38.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	66	72	4	4	1.67	1.67	1.92	541
	3	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	66	72	4	4	1.67	1.67	2.22	474
	5	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	104	0	4	4	1.67	1.67	2.10	477
	10	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	104	0	4	4	1.67	1.67	2.34	477
Moment Break	20	16	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	104	0	4	4	1.67	1.67	2.46	492
	30	21	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	2.50	5	2	12	2.50	5	4	12	2.50	104	0	4	4	1.67	1.67	3.05	440
	40	26	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	2.50	5	2	12	2.50	5	4	12	2.50	104	0	4	4	1.67	1.67	3.65	440
	50	31	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	2.50	5	2	12	2.50	4	8	6	2.50	104	0	4	4	1.67	1.67	4.25	443
	60	34	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	2.50	5	2	12	2.50	7	4	12	2.50	104	0	4	4	1.67	1.67	4.60	505

3 @ 12 x 5 REINFORCED CONCRETE SLAB BRIDGE

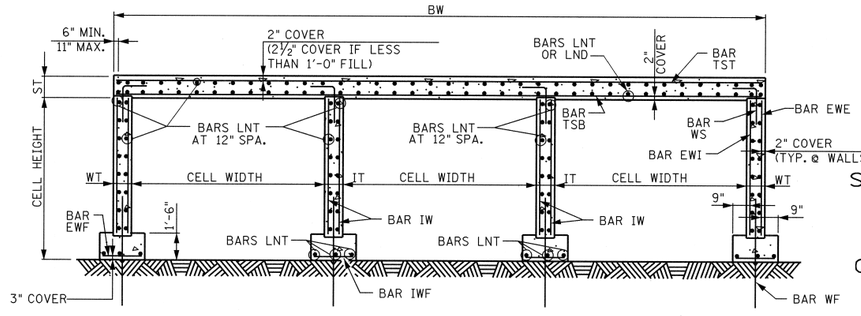
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	38.67	7	2	6	38.17	7	2	6	38.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	74	72	4	4	1.67	1.67	1.99	553
	3	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	74	72	4	4	1.67	1.67	2.29	485
	5	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	112	0	4	4	1.67	1.67	2.17	489
	10	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	112	0	4	4	1.67	1.67	2.41	489
Moment Break	20	16	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	112	0	4	4	1.67	1.67	2.53	503
	30	21	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	3.50	5	2	12	3.50	5	4	12	3.50	112	0	4	4	1.67	1.67	3.13	453
	40	26	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	3.50	5	2	12	3.50	5	4	12	3.50	112	0	4	4	1.67	1.67	3.72	453
	50	31	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	3.50	5	2	12	3.50	4	8	6	3.50	112	0	4	4	1.67	1.67	4.32	457
	60	34	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	3.50	5	2	12	3.50	7	4	12	3.50	112	0	4	4	1.67	1.67	4.68	522

3 @ 12 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	38.67	7	2	6	38.17	7	2	6	38.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	82	72	4	4	1.67	1.67	2.07	564
	3	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	82	72	4	4	1.67	1.67	2.37	497
	5	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	120	0	4	4	1.67	1.67	2.25	500
	10	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	120	0	4	4	1.67	1.67	2.48	500
Moment Break	20	16	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	120	0	4	4	1.67	1.67	2.60	514
	30	21	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	4.50	5	2	12	4.50	5	4	12	4.50	120	0	4	4	1.67	1.67	3.20	465
	40	26	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	4.50	5	2	12	4.50	5	4	12	4.50	120	0	4	4	1.67	1.67	3.80	465
	50	31	8	8	38.67	4	3	12	12.67	8	2	6	38.17	4	2	12	4.50	5	2	12	4.50	4	8	6	4.50	120	0	4	4	1.67	1.67	4.39	471
	60	34	9	8	38.83	4	3	12	12.67	9	2	6	38.33	4	2	12	4.50	5	2	12	4.50	7	4	12	4.50	120	0	4	4	1.75	1.67	4.81	540

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 = 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. = 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 12'-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-17-156

Bureau of Highways\Roads\1-6-10\Culvert Files 1-6-10\12' Span\STD-17-156¢157¢158_3barrel_slab12'.dgn
Bureau of Highways\Roads\1-6-10\Official Culvert Files 1-6-10\12' Span\STD-17-156¢157¢158_3barrel_slab12'.dgn