2 @ 12 x 10 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	10.5	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	8.50	5	2	12	8.50	4	2	12	8.50	83	48	3	3	1.67	1.67	1.83	428
	3	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	8.50	5	2	12	8.50	4	2	12	8.50	83	48	3	3	1.67	1.67	2.11	428
	5	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	8.50	6	2	12	8.50	4	2	12	8.50	109	0	3	3	1.67	1.67	2.11	393
	10	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	4	2	12	8.50	6	4	6	8.50	4	2	12	8.50	109	0	3	3	1.67	1.67	2.27	451
Moment Break	20	16	9	8	26.17	4	2	12	12.66	9	2	6	25.67	4	2	12	8.50	6	4	6	8.50	4	2	12	8.50	109	0	3	3	1.75	1.67	2.34	430
	30	21	11	8	26.50	4	2	12	12.66	8	2	6	26.00	4	2	12	8.50	6	4	6	8.50	5	2	12	8.50	109	0	3	3	1.92	1.67	2.89	401
	40	26	13	8	26.83	4	2	12	12.66	8	2	6	26.33	4	2	12	8.50	6	4	6	8.50	4	4	6	8.50	109	0	3	3	2.08	1.67	3.45	407
	50	31	14	8	27.00	4	2	12	12.66	8	2	6	26.50	4	2	12	8.50	6	4	6	8.50	7	2	12	8.50	111	0	3	3	2.17	1.67	3.94	422
	60	34	15	8	27.17	4	2	12	12.66	9	2	6	26.67	4	2	12	8.50	7	2	12	8.50	7	2	12	8.50	111	0	3	3	2.25	1.67	4.27	445

2 @ 12 x 11 REINFORCED CONCRETE SLAB BRIDGE

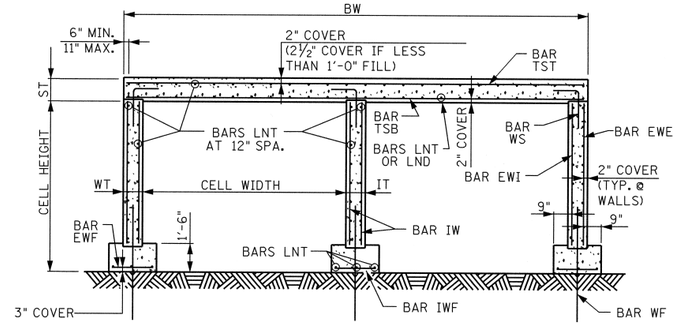
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	9.50	5	2	12	9.50	4	2	12	9.50	83	48	3	3	1.67	1.67	1.91	433
	3	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	9.50	6	2	12	9.50	4	2	12	9.50	83	48	3	3	1.67	1.67	2.19	441
	5	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	9.50	5	4	6	9.50	4	2	12	9.50	115	0	3	3	1.67	1.67	2.19	414
	10	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	4	2	12	9.50	7	4	6	9.50	4	2	12	9.50	115	0	3	3	1.67	1.67	2.35	484
Moment Break	20	16	10	8	26.33	4	2	12	12.66	9	2	6	25.83	4	2	12	9.50	7	4	6	9.50	4	2	12	9.50	115	0	3	3	1.83	1.67	2.50	464
	30	21	12	8	26.67	4	2	12	12.66	8	2	6	26.17	4	2	12	9.50	7	4	6	9.50	5	2	12	9.50	115	0	3	3	2.00	1.67	3.06	436
	40	26	14	8	27.00	4	2	12	12.66	8	2	6	26.50	4	2	12	9.50	6	4	6	9.50	4	4	6	9.50	117	0	3	3	2.17	1.67	3.64	424
	50	31	15	8	27.17	4	2	12	12.66	8	2	6	26.67	4	2	12	9.50	6	4	6	9.50	7	2	12	9.50	117	0	3	3	2.25	1.67	4.14	438
	60	34	17	8	27.50	4	2	12	12.66	9	2	6	27.00	4	2	12	9.50	6	4	6	9.50	7	2	12	9.50	117	0	3	3	2.42	1.67	4.56	480

2 @ 12 x 12 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	10.5	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	10.50	6	2	12	10.50	4	2	12	10.50	95	48	3	3	1.67	1.67	1.98	455
	3	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	10.50	6	2	12	10.50	4	2	12	10.50	95	48	3	3	1.67	1.67	2.26	455
	5	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	10.50	5	4	6	10.50	4	2	12	10.50	121	0	3	3	1.67	1.67	2.26	425
	10	16	9	8	26.17	8	2	6	25.67	6	2	6	25.67	4	2	12	10.50	7	4	6	10.50	4	2	12	10.50	121	0	3	3	1.75	1.67	2.51	500
Moment Break	20	16	11	8	26.50	4	2	12	12.66	9	2	6	26.00	4	2	12	10.50	7	4	6	10.50	4	2	12	10.50	121	0	3	3	1.92	1.67	2.67	480
	30	21	13	8	26.83	4	2	12	12.66	8	2	6	26.33	4	2	12	10.50	7	4	6	10.50	5	2	12	10.50	121	0	3	3	2.08	1.67	3.25	452
	40	26	15	8	27.17	4	2	12	12.66	8	2	6	26.67	4	2	12	10.50	6	4	6	10.50	4	4	6	10.50	123	0	3	3	2.25	1.67	3.84	439
	50	31	17	8	27.50	4	2	12	12.66	8	2	6	27.00	4	2	12	10.50	6	4	6	10.50	7	2	12	10.50	123	0	3	3	2.42	1.67	4.44	456
	60	34	19	8	27.83	4	2	12	12.66	9	2	6	27.33	4	2	12	10.50	6	4	6	10.50	7	2	12	10.50	123	0	3	3	2.58	1.67	4.87	498

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. = 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 12'-0"
CLEAR HEIGHTS 10'-0" THRU 12'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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

Dgn: d:\projects\tdotcivil\standards\11-6-10\Official Culvert Files 1-6-10\12 Span\STD-17-136¢137¢138_2barrel_slab12'.dgn
Dsn: JC 2010
Dft: JC 2010