3 @ 10 x 4 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB 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.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	11	8	8	32.67	6	2	6	32.17	6	2	6	32.17	6	1	12	33.17	6	1	12	33.17	4	2	12	4.00	5	2	12	4.00	4	4	12	4.00	130	30	8	2.70	542
	3	13	13	8	8	32.67	9	1	12	32.17	6	2	6	32.17	6	1	12	33.17	7	1	12	33.17	4	2	12	4.00	5	2	12	4.00	4	4	12	4.00	130	30	8	3.06	573
	5	12	12	8	8	32.67	6	2	6	32.17	6	2	6	32.17	7	1	12	33.17	8	1	12	33.17	4	2	12	4.00	5	2	12	4.00	4	4	12	4.00	162	0	8	2.85	589
	10	13	13	8	8	32.67	6	2	6	32.17	5	2	6	32.17	7	1	12	33.17	8	1	12	33.17	4	2	12	4.00	5	2	12	4.00	4	4	12	4.00	162	0	8	3.06	559
Moment Break	20	12	13	8	8	32.67	4	3	12	10.66	8	2	6	32.17	11	1	12	33.17	4	3	12	10.66	4	2	12	4.00	5	2	12	4.00	4	4	12	4.00	162	0	8	2.96	630
	30	18	18	8	8	32.67	4	3	12	10.66	7	2	6	32.17	7	2	6	33.17	4	3	12	10.66	4	2	12	4.00	5	2	12	4.00	4	4	12	4.00	162	0	8	4.08	549
	40	22	22	8	8	32.67	4	3	12	10.66	7	2	6	32.17	7	2	6	33.17	4	3	12	10.66	4	2	12	4.00	5	2	12	4.00	5	4	12	4.00	162	0	8	4.90	555
	50	25	25	8	8	32.67	4	3	12	10.66	8	2	6	32.17	10	1	12	33.17	4	3	12	10.66	4	2	12	4.00	5	2	12	4.00	4	8	6	4.00	162	0	8	5.51	607
	60	29	29	8	8	32.67	4	3	12	10.66	8	2	6	32.17	11	1	12	33.17	4	3	12	10.66	4	2	12	4.00	5	2	12	4.00	4	8	6	4.00	162	0	8	6.33	641

3 @ 10 x 5 REINFORCED CONCRETE BOX BRIDGE

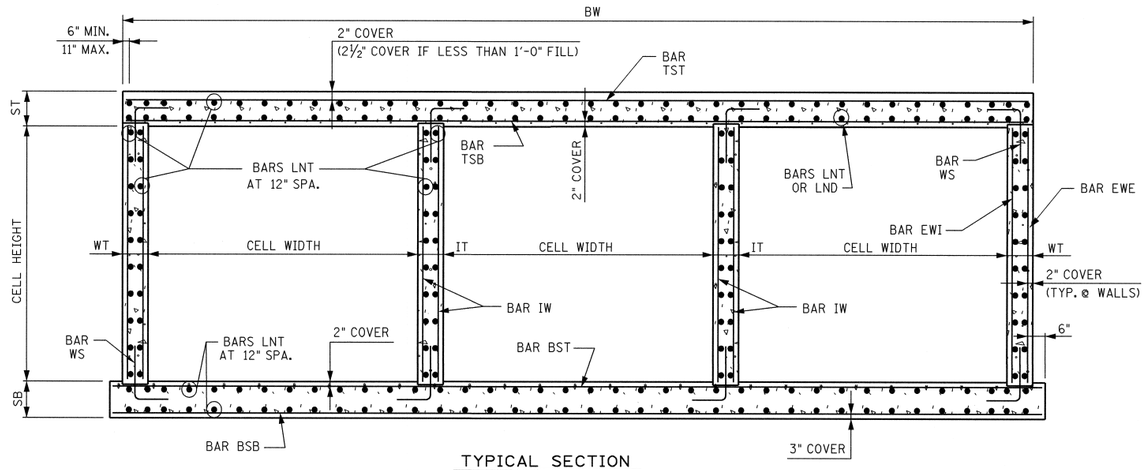
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	11	8	8	32.67	6	2	6	32.17	6	2	6	32.17	6	1	12	33.17	6	1	12	33.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	138	30	8	2.80	554
	3	13	13	8	8	32.67	9	1	12	32.17	6	2	6	32.17	6	1	12	33.17	5	2	6	33.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	138	30	8	3.16	586
	5	12	12	8	8	32.67	6	2	6	32.17	6	2	6	32.17	7	1	12	33.17	8	1	12	33.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	174	0	8	2.95	603
	10	13	13	8	8	32.67	6	2	6	32.17	5	2	6	32.17	7	1	12	33.17	8	1	12	33.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	174	0	8	3.16	574
Moment Break	20	12	13	8	8	32.67	4	3	12	10.66	8	2	6	32.17	11	1	12	33.17	4	3	12	10.66	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	174	0	8	3.05	644
	30	18	18	8	8	32.67	4	3	12	10.66	7	2	6	32.17	7	2	6	33.17	4	3	12	10.66	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	174	0	8	4.18	563
	40	22	22	8	8	32.67	4	3	12	10.66	7	2	6	32.17	7	2	6	33.17	4	3	12	10.66	4	2	12	5.00	5	2	12	5.00	5	4	12	5.00	174	0	8	5.00	571
	50	25	25	9	8	32.83	4	3	12	10.66	8	2	6	32.33	10	1	12	33.33	4	3	12	10.66	4	2	12	5.00	5	2	12	5.00	4	8	6	5.00	174	0	8	5.67	626
	60	29	29	10	8	33.00	4	3	12	10.66	8	2	6	32.50	11	1	12	33.50	4	3	12	10.66	4	2	12	5.00	5	2	12	5.00	4	8	6	5.00	174	0	8	6.55	661

3 @ 10 x 6 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB 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.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	11	8	8	32.67	6	2	6	32.17	6	2	6	32.17	6	1	12	33.17	6	1	12	33.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	146	30	8	2.90	565
	3	13	13	8	8	32.67	9	1	12	32.17	6	2	6	32.17	6	1	12	33.17	7	1	12	33.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	146	30	8	3.25	596
	5	12	12	8	8	32.67	6	2	6	32.17	6	2	6	32.17	5	2	6	33.17	6	2	6	33.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	182	0	8	3.05	627
	10	13	13	8	8	32.67	6	2	6	32.17	5	2	6	32.17	7	1	12	33.17	8	1	12	33.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	182	0	8	3.25	585
Moment Break	20	12	13	8	8	32.67	4	3	12	10.66	8	2	6	32.17	11	1	12	33.17	4	3	12	10.66	4	2	12	6.00	6	2	12	6.00	4	4	12	6.00	182	0	8	3.15	661
	30	18	18	8	8	32.67	4	3	12	10.66	7	2	6	32.17	7	2	6	33.17	4	3	12	10.66	4	2	12	6.00	6	2	12	6.00	4	4	12	6.00	182	0	8	4.28	580
	40	22	22	10	8	33.00	4	3	12	10.66	7	2	6	32.50	7	2	6	33.50	4	3	12	10.66	4	2	12	6.00	5	2	12	6.00	5	4	12	6.00	182	0	8	5.22	586
	50	25	25	11	8	33.17	4	3	12	10.66	8	2	6	32.67	11	1	12	33.67	4	3	12	10.66	4	2	12	6.00	5	2	12	6.00	4	8	6	6.00	182	0	8	5.90	677
	60	29	29	11	8	33.17	4	3	12	10.66	8	2	6	32.67	11	1	12	33.67	4	3	12	10.66	4	2	12	6.00	5	2	12	6.00	4	8	6	6.00	182	0	8	6.73	677

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 = 5 Spacing = 12 in.
Bars WS Size = 8 Length = 5.00 ft. 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 BOX 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

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

BOX_drvs\st\bboxes\tables\1-6-10\Official Culvert Files 1-6-10\0 Specs\STD-17-94&95_3barrel_box10'.dgn 8/18/2010