STD-17-72¢73_2BARREL_BOX8'.DGN

2 @ 8 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	9.5	9	8	8	18.00	6	2	6	17.50	6	2	6	17.50	4	2	6	18.50	7	1	12	18.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	92	16	6	1.50	354
	3	11	11	8	8	18.00	7	2	6	17.50	6	2	6	17.50	4	2	6	18.50	7	1	12	18.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	92	16	6	1.70	373
	5	11	11	8	8	18.00	5	2	6	17.50	5	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	110	0	6	1.70	329
	10	11	11	8	8	18.00	7	2	6	17.50	5	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	110	0	6	1.70	370
Moment Break	20	10	11	8	8	18.00	4	2	12	8.66	7	2	6	17.50	7	2	6	18.50	4	2	12	8.66	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	110	0	6	1.65	358
	30	14	15	9	8	18.17	4	2	12	8.66	7	2	6	17.67	9	1	12	18.67	4	2	12	8.66	4	2	12	6.00	6	2	12	6.00	4	2	12	6.00	110	0	6	2.15	346
	40	18	18	10	8	18.33	4	2	12	8.66	7	2	6	17.83	9	1	12	18.83	4	2	12	8.66	4	2	12	6.00	6	2	12	6.00	5	2	12	6.00	110	0	6	2.61	352
	50	21	21	11	8	18.50	4	2	12	8.66	7	2	6	18.00	7	2	6	19.00	4	2	12	8.66	4	2	12	6.00	6	2	12	6.00	5	2	12	6.00	110	0	6	3.02	367
	60	24	24	12	8	18.67	4	2	12	8.66	7	2	6	18.17	7	2	6	19.17	4	2	12	8.66	4	2	12	6.00	5	2	12	6.00	4	4	6	6.00	110	0	6	3.43	366

2 @ 8 x 7 REINFORCED CONCRETE BOX BRIDGE

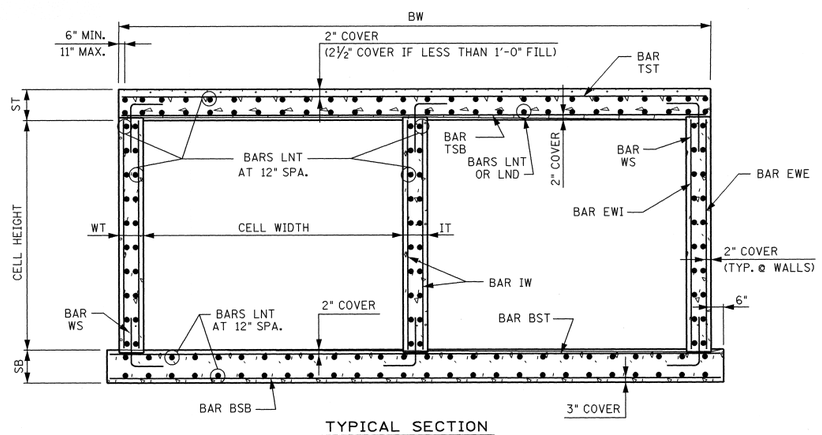
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing 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	9.5	9	8	8	18.00	6	2	6	17.50	6	2	6	17.50	4	2	6	18.50	7	1	12	18.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	98	16	6	1.57	363
	3	11	11	8	8	18.00	7	2	6	17.50	6	2	6	17.50	4	2	6	18.50	7	1	12	18.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	98	16	6	1.77	382
	5	11	11	8	8	18.00	5	2	6	17.50	5	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	7.00	6	2	12	7.00	4	2	12	7.00	116	0	6	1.77	344
	10	11	11	8	8	18.00	7	2	6	17.50	5	2	6	17.50	4	2	6	18.50	6	2	6	18.50	4	2	12	7.00	6	2	12	7.00	4	2	12	7.00	116	0	6	1.77	386
Moment Break	20	10	11	8	8	18.00	4	2	12	8.66	7	2	6	17.50	7	2	6	18.50	4	2	12	8.66	4	2	12	7.00	7	2	12	7.00	4	2	12	7.00	116	0	6	1.72	375
	30	14	16	10	8	18.33	4	2	12	8.66	7	2	6	17.83	6	2	6	18.83	4	2	12	8.66	4	2	12	7.00	5	4	6	7.00	4	2	12	7.00	116	0	6	2.35	358
	40	18	19	11	8	18.50	4	2	12	8.66	7	2	6	18.00	9	1	12	19.00	4	2	12	8.66	4	2	12	7.00	5	4	6	7.00	5	2	12	7.00	116	0	6	2.82	372
	50	21	21	12	8	18.67	4	2	12	8.66	7	2	6	18.17	7	2	6	19.17	4	2	12	8.66	4	2	12	7.00	7	2	12	7.00	5	2	12	7.00	116	0	6	3.18	386
	60	24	24	13	8	18.83	4	2	12	8.66	7	2	6	18.33	7	2	6	19.33	4	2	12	8.66	4	2	12	7.00	5	4	6	7.00	4	4	6	7.00	116	0	6	3.60	392

2 @ 8 x 8 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	9.5	9	8	8	18.00	6	2	6	17.50	6	2	6	17.50	4	2	6	18.50	5	2	6	18.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	104	16	6	1.65	373
	3	11	11	8	8	18.00	7	2	6	17.50	6	2	6	17.50	4	2	6	18.50	7	1	12	18.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	104	16	6	1.85	391
	5	11	11	8	8	18.00	5	2	6	17.50	5	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	8.00	6	2	12	8.00	4	2	12	8.00	122	0	6	1.85	354
	10	11	11	8	8	18.00	7	2	6	17.50	5	2	6	17.50	4	2	6	18.50	6	2	6	18.50	4	2	12	8.00	7	2	12	8.00	4	2	12	8.00	122	0	6	1.85	404
Moment Break	20	10	12	9	8	18.17	4	2	12	8.66	7	2	6	17.67	9	1	12	18.67	4	2	12	8.66	4	2	12	8.00	6	4	6	8.00	4	2	12	8.00	122	0	6	1.91	390
	30	14	16	11	8	18.50	4	2	12	8.66	7	2	6	18.00	9	1	12	19.00	4	2	12	8.66	4	2	12	8.00	6	4	6	8.00	4	2	12	8.00	122	0	6	2.50	392
	40	18	19	12	8	18.67	4	2	12	8.66	7	2	6	18.17	9	1	12	19.17	4	2	12	8.66	4	2	12	8.00	6	4	6	8.00	5	2	12	8.00	122	0	6	2.98	400
	50	21	21	14	8	19.00	4	2	12	8.66	7	2	6	18.50	7	2	6	19.50	4	2	12	8.66	4	2	12	8.00	6	4	6	8.00	5	2	12	8.00	126	0	6	3.42	418
	60	24	24	15	8	19.17	4	2	12	8.66	7	2	6	18.67	7	2	6	19.67	4	2	12	8.66	4	2	12	8.00	6	4	6	8.00	4	4	6	8.00	126	0	6	3.85	424

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

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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: 2 BARRELS AT 8'-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-17-73

D:\d_drive\Boxes\Tables\1-6-10\Official Culvert Files 1-6-10\8' Span\STD-17-72¢73_2barrel_box8'.dgn
Feb 2, 2010