CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 16 x 6 REINFORCED CONCRETE BOX BRIDGE

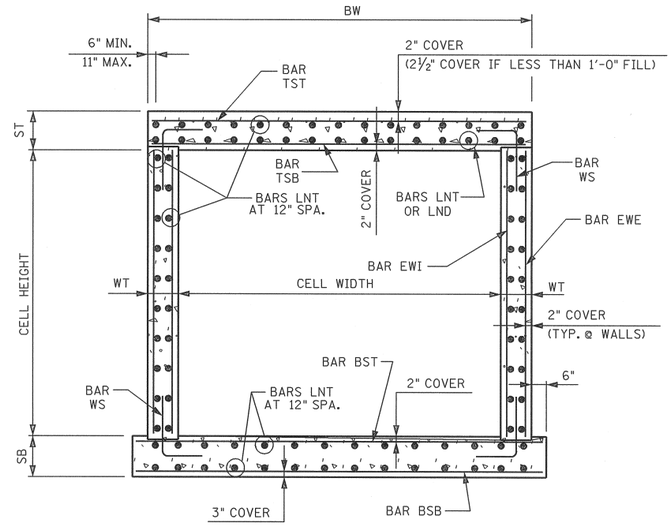
Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	11	8	17.33	4	1	12	16.83	9	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	6.00	5	2	12	6.00	78	32	4	1.53	392
3	14	14	8	17.33	4	1	12	16.83	8	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	6.00	5	2	12	6.00	78	32	4	1.84	368
5	14	14	8	17.33	4	1	12	16.83	8	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	6.00	5	2	12	6.00	94	0	4	1.84	345
10	15	15	8	17.33	4	1	12	16.83	9	2	6	16.83	9	2	6	17.83	4	1	12	17.83	4	2	12	6.00	5	2	12	6.00	94	0	4	1.95	396
20	19	19	8	17.33	4	1	12	16.83	10	2	6	16.83	10	2	6	17.83	4	1	12	17.83	4	2	12	6.00	5	2	12	6.00	94	0	4	2.39	458
30	26	26	8	17.33	4	1	12	16.83	9	2	6	16.83	9	2	6	17.83	4	1	12	17.83	4	2	12	6.00	5	2	12	6.00	94	0	4	3.16	396
40	32	32	9	17.50	4	1	12	17.00	9	2	6	17.00	9	2	6	18.00	4	1	12	18.00	4	2	12	6.00	5	2	12	6.00	94	0	4	3.89	398
50	37	37	10	17.67	4	1	12	17.17	10	2	6	17.17	10	2	6	18.17	4	1	12	18.17	4	2	12	6.00	5	2	12	6.00	94	0	4	4.52	464
60	41	42	11	17.83	4	1	12	17.33	10	2	6	17.33	10	2	6	18.33	4	1	12	18.33	4	2	12	6.00	5	2	12	6.00	94	0	4	5.11	467

1 @ 16 x 7 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT 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 LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	11	8	17.33	4	1	12	16.83	9	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	7.00	5	2	12	7.00	82	32	4	1.58	398
3	14	14	8	17.33	4	1	12	16.83	8	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	7.00	5	2	12	7.00	82	32	4	1.89	374
5	14	14	8	17.33	4	1	12	16.83	8	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	7.00	5	2	12	7.00	98	0	4	1.89	351
10	15	15	8	17.33	4	1	12	16.83	9	2	6	16.83	9	2	6	17.83	4	1	12	17.83	4	2	12	7.00	5	2	12	7.00	98	0	4	2.00	402
20	19	19	8	17.33	4	1	12	16.83	10	2	6	16.83	10	2	6	17.83	4	1	12	17.83	4	2	12	7.00	6	2	12	7.00	98	0	4	2.44	471
30	26	26	9	17.50	4	1	12	17.00	9	2	6	17.00	9	2	6	18.00	4	1	12	18.00	4	2	12	7.00	6	2	12	7.00	98	0	4	3.28	411
40	32	32	10	17.67	4	1	12	17.17	9	2	6	17.17	9	2	6	18.17	4	1	12	18.17	4	2	12	7.00	5	2	12	7.00	98	0	4	4.02	407
50	37	37	11	17.83	4	1	12	17.33	10	2	6	17.33	10	2	6	18.33	4	1	12	18.33	4	2	12	7.00	5	2	12	7.00	98	0	4	4.66	474
60	41	42	12	18.00	4	1	12	17.50	10	2	6	17.50	10	2	6	18.50	4	1	12	18.50	4	2	12	7.00	5	2	12	7.00	102	0	4	5.26	479

1 @ 16 x 8 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT 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 LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	11	8	17.33	4	1	12	16.83	9	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	8.00	5	2	12	8.00	86	32	4	1.63	404
3	14	14	8	17.33	4	1	12	16.83	8	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	8.00	5	2	12	8.00	86	32	4	1.94	380
5	14	14	8	17.33	4	1	12	16.83	8	2	6	16.83	8	2	6	17.83	4	1	12	17.83	4	2	12	8.00	5	2	12	8.00	102	0	4	1.94	357
10	15	15	8	17.33	4	1	12	16.83	9	2	6	16.83	9	2	6	17.83	4	1	12	17.83	4	2	12	8.00	6	2	12	8.00	102	0	4	2.05	415
20	19	19	9	17.50	4	1	12	17.00	10	2	6	17.00	10	2	6	18.00	4	1	12	18.00	4	2	12	8.00	5	4	6	8.00	102	0	4	2.56	490
30	26	26	10	17.67	4	1	12	17.17	9	2	6	17.17	9	2	6	18.17	4	1	12	18.17	4	2	12	8.00	6	4	6	8.00	102	0	4	3.41	444
40	32	33	12	18.00	4	1	12	17.50	9	2	6	17.50	9	2	6	18.50	4	1	12	18.50	4	2	12	8.00	5	4	6	8.00	106	0	4	4.31	437
50	37	38	13	18.17	4	1	12	17.67	10	2	6	17.67	10	2	6	18.67	4	1	12	18.67	4	2	12	8.00	6	2	12	8.00	106	0	4	4.96	496
60	41	42	14	18.33	4	1	12	17.83	10	2	6	17.83	10	2	6	18.83	4	1	12	18.83	4	2	12	8.00	5	2	12	8.00	106	0	4	5.52	492



TYPICAL SECTION

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-17-5.

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 = 6 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STANDARD REINFORCED CONCRETE BOX BRIDGE
INTERIOR SECTION
SPANS: 1 BARREL AT 16'-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-17-62

DGN: d:\projects\standbooks\tables\1-6-10\16' Span\STD-17-62¢63¢64_1BARRELL_BOX16'.DGN
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