CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 14 x 5 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.	Bar 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	10.5	10	8	15.33	4	1	12	14.83	11	1	12	14.83	6	2	6	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	65	28	4	1.24	275
3	11	11	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	65	28	4	1.32	292
5	11	12	8	15.33	4	1	12	14.83	10	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	80	0	4	1.37	268
10	12	13	8	15.33	4	1	12	14.83	11	1	12	14.83	11	1	12	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	80	0	4	1.47	303
20	15	16	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	80	0	4	1.76	348
30	22	23	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	80	0	4	2.44	348
40	28	29	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	5.00	4	2	12	5.00	80	0	4	3.03	348
50	32	33	9	15.50	4	1	12	15.00	9	2	6	15.00	9	2	6	16.00	4	1	12	16.00	4	2	12	5.00	4	2	12	5.00	80	0	4	3.48	351
60	36	37	10	15.66	4	1	12	15.16	9	2	6	15.16	9	2	6	16.16	4	1	12	16.16	4	2	12	5.00	4	2	12	5.00	80	0	4	3.95	353

1 @ 14 x 6 REINFORCED CONCRETE BOX BRIDGE

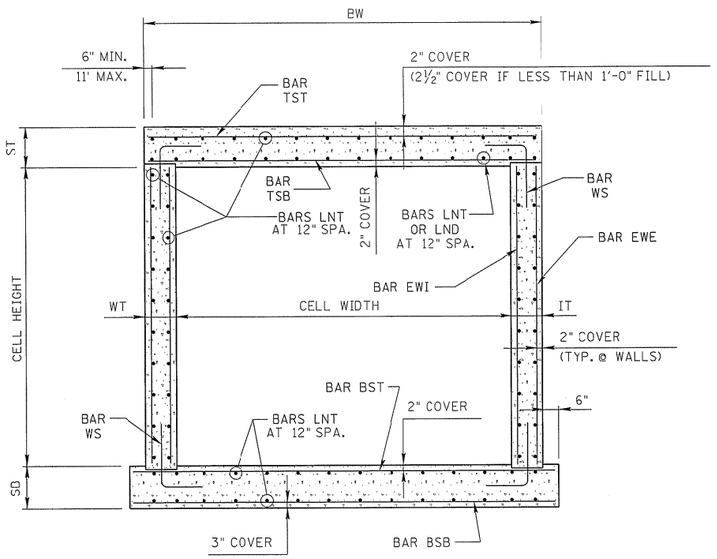
Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	10.5	10	8	15.33	4	1	12	14.83	11	1	12	14.83	9	1	12	15.83	4	1	12	15.83	4	2	12	6.00	4	2	12	6.00	69	28	4	1.29	287
3	11	11	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	6.00	4	2	12	6.00	69	28	4	1.37	298
5	11	12	8	15.33	4	1	12	14.83	10	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	6.00	4	2	6	6.00	84	0	4	1.42	274
10	12	13	8	15.33	4	1	12	14.83	11	1	12	14.83	11	1	12	15.83	4	1	12	15.83	4	2	12	6.00	4	2	12	6.00	84	0	4	1.51	308
20	15	16	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	6.00	4	2	12	6.00	84	0	4	1.81	354
30	22	24	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	6.00	4	2	12	6.00	84	0	4	2.54	354
40	28	29	9	15.50	4	1	12	15.00	9	2	6	15.00	9	2	6	16.00	4	1	12	16.00	4	2	12	6.00	4	2	12	6.00	84	0	4	3.14	356
50	32	33	10	15.66	4	1	12	15.16	9	2	6	15.16	9	2	6	16.16	4	1	12	16.16	4	2	12	6.00	4	2	12	6.00	84	0	4	3.61	359
60	36	37	11	15.83	4	1	12	15.33	9	2	6	15.33	9	2	6	16.33	4	1	12	16.33	4	2	12	6.00	4	2	12	6.00	84	0	4	4.08	361

1 @ 14 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.	Bar 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	10.5	10	8	15.33	4	1	12	14.83	11	1	12	14.83	9	1	12	15.83	4	1	12	15.83	4	2	12	7.00	4	2	12	7.00	73	28	4	1.34	292
3	11	11	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	7.00	4	2	12	7.00	73	28	4	1.42	303
5	11	12	8	15.33	4	1	12	14.83	10	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	7.00	4	2	12	7.00	88	0	4	1.47	280
10	12	13	8	15.33	4	1	12	14.83	11	1	12	14.83	11	1	12	15.83	4	1	12	15.83	4	2	12	7.00	4	2	12	7.00	88	0	4	1.56	314
20	15	16	8	15.33	4	1	12	14.83	9	2	6	14.83	9	2	6	15.83	4	1	12	15.83	4	2	12	7.00	4	4	6	7.00	88	0	4	1.86	369
30	22	24	9	15.50	4	1	12	15.00	9	2	6	15.00	9	2	6	16.00	4	1	12	16.00	4	2	12	7.00	4	4	6	7.00	88	0	4	2.66	370
40	28	29	10	15.66	4	1	12	15.16	9	2	6	15.16	9	2	6	16.16	4	1	12	16.16	4	2	12	7.00	5	2	12	7.00	88	0	4	3.27	370
50	32	33	12	16.00	4	1	12	15.50	9	2	6	15.50	9	2	6	16.50	4	1	12	16.50	4	2	12	7.00	4	2	12	7.00	92	0	4	3.83	372
60	36	37	13	16.16	4	1	12	15.66	9	2	6	15.66	9	2	6	16.66	4	1	12	16.66	4	2	12	7.00	4	2	12	7.00	92	0	4	4.31	374

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 top slab is the riding surface (No Fill), the concrete cover to the top mat of reinforcing shall be 2-1/2 inches.

The following bar information applies to all fill cases in the table 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.



TYPICAL SECTION

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-15-4.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD REINFORCED CONCRETE BOX BRIDGE
INTERIOR SECTION
SPANS: 1 BARREL AT 14'-0"
CLEAR HEIGHTS 5-0" THRU 7'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-42

DESIGNED BY IHAB YOUSSEF DATE 9-99
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY IHAB YOUSSEF DATE 6-00

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05/31/2001