CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 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	11.5	11	8	19.33	4	1	12	18.83	8	2	6	18.83	7	2	6	19.83	4	1	12	19.83	4	2	12	6.00	4	2	12	6.00	81	36	4	1.67	354
3	13	12	8	19.33	4	1	12	18.83	11	1	12	18.83	11	1	12	19.83	4	1	12	19.83	4	2	12	6.00	4	2	12	6.00	81	36	4	1.82	378
5	13	13	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	6.00	4	2	12	6.00	100	0	4	1.88	425
10	14	15	8	19.33	4	1	12	18.83	9	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	6.00	4	2	12	6.00	100	0	4	2.07	460
20	18	20	8	19.33	4	1	12	18.83	11	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	6.00	4	2	12	6.00	100	0	4	2.62	533
30	28	29	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	6.00	4	2	12	6.00	100	0	4	3.78	494
40	35	36	9	19.50	4	1	12	19.00	10	2	6	19.00	10	2	6	20.00	4	1	12	20.00	4	2	12	6.00	4	2	12	6.00	100	0	4	4.71	498
50	40	42	10	19.67	4	1	12	19.16	10	2	6	19.16	10	2	6	20.16	4	1	12	20.16	4	2	12	6.00	4	2	12	6.00	100	0	4	5.47	501
60	45	46	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	6.00	4	2	12	6.00	100	0	4	6.11	504

1 @ 18 x 7 REINFORCED CONCRETE BOX BRIDGE

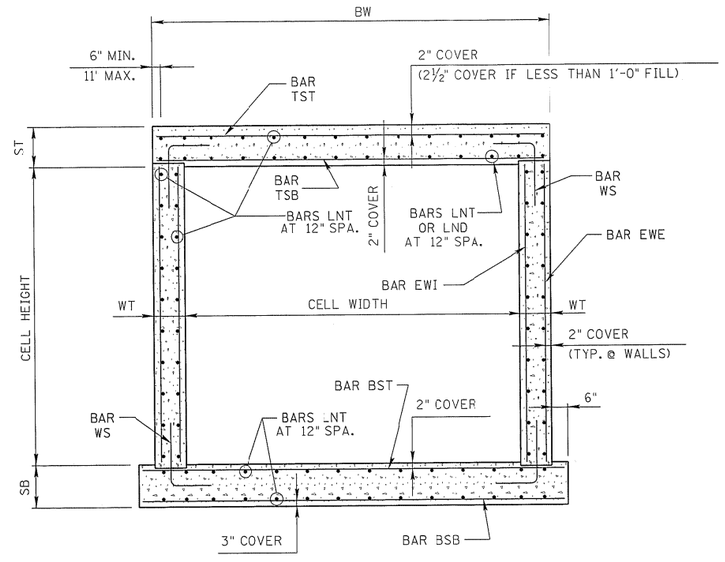
Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	11	8	19.33	4	1	12	18.83	8	2	6	18.83	7	2	6	19.83	4	1	12	19.83	4	2	12	7.00	4	2	12	7.00	85	36	4	1.72	360
3	13	12	8	19.33	4	1	12	18.83	11	1	12	18.83	11	1	12	19.83	4	1	12	19.83	4	2	12	7.00	4	2	12	7.00	85	36	4	1.87	384
5	13	13	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	7.00	4	2	12	7.00	104	0	4	1.93	429
10	14	15	8	19.33	4	1	12	18.83	9	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	7.00	4	2	12	7.00	104	0	4	2.12	465
20	18	20	8	19.33	4	1	12	18.83	11	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	7.00	4	2	12	7.00	104	0	4	2.67	542
30	28	29	9	19.50	4	1	12	19.00	10	2	6	19.00	10	2	6	20.00	4	1	12	20.00	4	2	12	7.00	4	2	12	7.00	104	0	4	3.90	502
40	35	36	10	19.67	4	1	12	19.16	10	2	6	19.16	10	2	6	20.16	4	1	12	20.16	4	2	12	7.00	4	2	12	7.00	104	0	4	4.85	505
50	40	42	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	7.00	4	2	12	7.00	104	0	4	5.62	508
60	45	46	12	20.00	4	1	12	19.50	10	2	6	19.50	10	2	6	20.50	4	1	12	20.50	4	2	12	7.00	4	2	12	7.00	108	0	4	6.27	515

1 @ 18 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.	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	11.5	11	8	19.33	4	1	12	18.83	8	2	6	18.83	7	2	6	19.83	4	1	12	19.83	4	2	12	8.00	4	2	12	8.00	89	36	4	1.77	365
3	13	12	8	19.33	4	1	12	18.83	11	1	12	18.83	11	1	12	19.83	4	1	12	19.83	4	2	12	8.00	4	2	12	8.00	89	36	4	1.92	389
5	13	13	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	8.00	4	2	12	8.00	108	0	4	1.98	435
10	14	15	8	19.33	4	1	12	18.83	9	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	8.00	5	2	12	8.00	108	0	4	2.17	477
20	18	20	8	19.33	4	1	12	18.83	11	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	8.00	7	2	12	8.00	108	0	4	2.72	565
30	28	29	10	19.67	4	1	12	19.16	10	2	6	19.16	10	2	6	20.16	4	1	12	20.16	4	2	12	8.00	4	4	6	8.00	108	0	4	4.04	522
40	35	36	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	8.00	4	4	6	8.00	108	0	4	5.00	525
50	40	42	13	20.17	4	1	12	19.66	10	2	6	19.66	10	2	6	20.66	4	1	12	20.66	4	2	12	8.00	4	2	12	8.00	112	0	4	5.87	523
60	45	47	14	20.33	4	1	12	19.83	10	2	6	19.83	10	2	6	20.83	4	1	12	20.83	4	2	12	8.00	4	2	12	8.00	112	0	4	6.61	526

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 18'-0" CLEAR HEIGHTS 6'-0" THRU 8'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-48

DESIGNED BY	DAN SHIKE	DATE 1-00
DRAWN BY	KEVIN MARTINKO	DATE 3-00
SUPERVISED BY	FIELDS & HOLLORAN	DATE 3-00
CHECKED BY	DAN SHIKE	DATE 6-00

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DGN 8.0
[6/04/2001]