CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 18 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.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar 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	10.5	8	8	8	56.67	11	1	12	56.16	7	2	6	56.16	7	1	12	57.16	8	1	12	57.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	216	54	8	3.85	1137
	3	12	10	8	8	56.67	11	1	12	56.16	7	2	6	56.16	6	2	6	57.16	7	2	6	57.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	216	54	8	4.47	1273
	5	12	11	8	8	56.67	11	1	12	56.16	7	2	6	56.16	7	2	6	57.16	11	1	12	57.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	272	0	8	4.64	1386
	10	15	16	8	8	56.67	11	1	12	56.15	7	2	6	56.15	7	2	6	57.15	11	1	12	57.15	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	272	0	8	6.06	1385
Moment Break	20	18	20	8	8	56.67	4	3	12	18.66	11	2	6	56.16	10	2	6	57.16	4	3	12	18.66	4	2	12	6.00	4	2	12	6.00	5	4	12	6.00	272	0	8	7.30	1493
	30	28	29	8	8	56.67	4	3	12	18.66	10	2	6	56.16	10	2	6	57.16	4	3	12	18.66	4	2	12	6.00	4	2	12	6.00	4	8	6	6.00	272	0	8	10.65	1386
	40	35	36	9	8	56.83	4	3	12	18.66	10	2	6	56.33	10	2	6	57.33	4	3	12	18.66	4	2	12	6.00	4	2	12	6.00	7	4	12	6.00	272	0	8	13.19	1406
	50	40	42	10	8	57.00	4	3	12	18.66	10	2	6	56.50	10	2	6	57.50	4	3	12	18.66	4	2	12	6.00	4	2	12	6.00	8	4	12	6.00	276	0	8	15.22	1426
	60	45	46	11	8	57.17	4	3	12	18.66	10	2	6	56.66	10	2	6	57.66	4	3	12	18.66	4	2	12	6.00	4	2	12	6.00	6	8	6	6.00	276	0	8	16.90	1437

3 @ 18 x 7 REINFORCED CONCRETE BOX BRIDGE

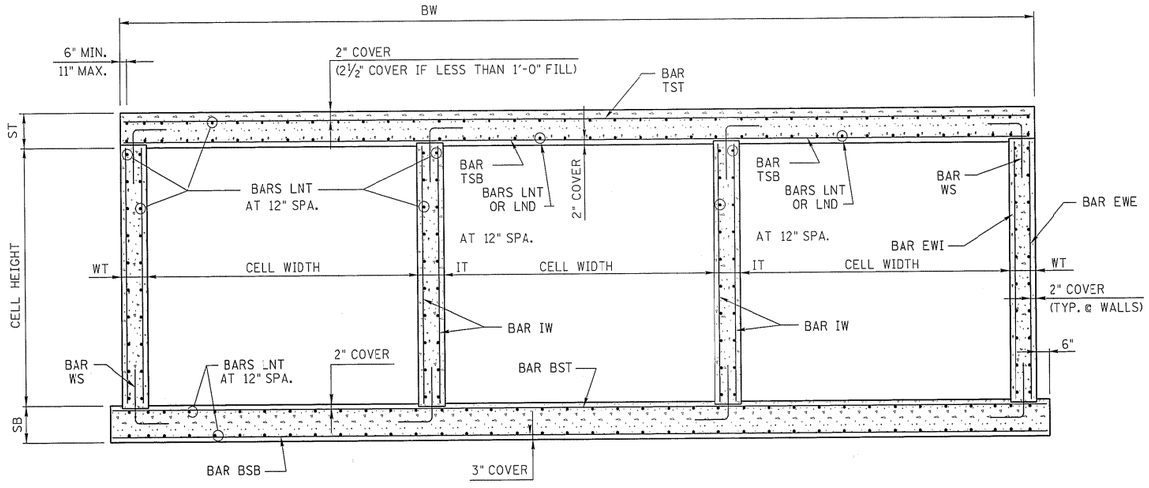
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar 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	10.5	8	8	8	56.67	11	1	12	56.16	7	2	6	56.16	5	2	6	57.16	6	2	6	57.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	224	54	8	3.95	1169
	3	12	10	8	8	56.67	11	1	12	56.16	7	2	6	56.16	6	2	6	57.16	7	2	6	57.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	224	54	8	4.56	1283
	5	12	11	8	8	56.67	11	1	12	56.16	7	2	6	56.16	7	2	6	57.16	11	1	12	57.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	280	0	8	4.74	1396
	10	15	16	8	8	56.67	11	1	12	56.15	7	2	6	56.15	7	2	6	57.15	11	1	12	57.15	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	280	0	8	6.16	1396
Moment Break	20	18	20	8	8	56.67	4	3	12	18.66	11	2	6	56.16	10	2	6	57.16	4	3	12	13.66	4	2	12	7.00	5	2	12	7.00	5	4	12	7.00	280	0	8	7.39	1510
	30	28	29	9	8	56.83	4	3	12	18.66	10	2	6	56.33	10	2	6	57.33	4	3	12	13.66	4	2	12	7.00	4	2	12	7.00	4	8	6	7.00	280	0	8	10.82	1402
	40	35	36	10	8	57.00	4	3	12	18.66	10	2	6	56.50	10	2	6	57.50	4	3	12	13.66	4	2	12	7.00	4	2	12	7.00	7	4	12	7.00	284	0	8	13.37	1428
	50	40	42	11	8	57.17	4	3	12	18.66	10	2	6	56.66	10	2	6	57.66	4	3	12	13.66	4	2	12	7.00	4	2	12	7.00	8	4	12	7.00	284	0	8	15.41	1448
	60	45	46	12	8	57.33	4	3	12	18.66	10	2	6	56.83	10	2	6	57.83	4	3	12	13.66	4	2	12	7.00	4	2	12	7.00	6	8	6	7.00	284	0	8	17.10	1461

3 @ 18 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.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar 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	10.5	9	8	8	56.67	11	1	12	56.16	7	2	6	56.16	7	1	12	57.16	5	2	6	57.16	4	2	12	8.00	4	2	12	8.00	4	4	12	8.00	232	54	8	4.23	1124
	3	12	10	8	8	56.67	11	1	12	56.16	7	2	6	56.16	6	2	6	57.16	7	2	6	57.16	4	2	12	8.00	4	2	12	8.00	4	4	12	8.00	232	54	8	4.66	1293
	5	12	11	8	8	56.67	11	1	12	56.16	7	2	6	56.16	7	2	6	57.16	11	1	12	57.16	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	288	0	8	4.84	1412
	10	15	16	8	8	56.67	11	1	12	56.15	7	2	6	56.15	7	2	6	57.15	11	1	12	57.15	4	2	12	8.00	4	4	6	8.00	4	4	12	8.00	288	0	8	6.26	1417
Moment Break	20	18	20	8	8	56.67	4	3	12	18.66	11	2	6	56.16	10	2	6	57.16	4	3	12	18.66	4	2	12	8.00	4	2	12	8.00	7	2	12	8.00	288	0	8	7.49	1539
	30	28	29	10	8	57.00	4	3	12	18.66	10	2	6	56.50	10	2	6	57.50	4	3	12	18.66	4	2	12	8.00	4	4	6	8.00	4	8	6	8.00	292	0	8	11.00	1432
	40	35	36	11	8	57.17	4	3	12	18.66	10	2	6	56.66	10	2	6	57.66	4	3	12	18.66	4	2	12	8.00	4	4	6	8.00	7	4	12	8.00	292	0	8	13.57	1457
	50	40	42	13	8	57.50	4	3	12	18.66	10	2	6	57.00	10	2	6	58.00	4	3	12	18.66	4	2	12	8.00	4	2	12	8.00	8	4	12	8.00	292	0	8	15.71	1473
	60	45	47	14	8	57.67	4	3	12	18.66	10	2	6	57.16	10	2	6	58.16	4	3	12	18.66	4	2	12	8.00	4	2	12	8.00	6	8	6	8.00	292	0	8	17.60	1486

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



TYPICAL SECTION BOX BRIDGE

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: 3 BARRELS AT 18'-0" CLEAR HEIGHTS 6'-0" THRU 8'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-88

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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6/13/2001