CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 8 x 5 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	8.5	8	8	8	18.00	6	2	12	17.50	8	1	12	17.50	4	1	12	18.50	4	2	6	18.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	84	16	6	1.28	309
	3	8	8	8	8	18.00	9	1	12	17.50	8	1	12	17.50	5	1	12	18.50	7	1	12	18.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	84	16	6	1.28	336
	5	8	8	8	8	18.00	7	1	12	17.50	4	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	102	0	6	1.28	301
	10	8	10	8	8	18.00	6	2	6	17.50	6	1	12	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	102	0	6	1.40	321
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	5.00	4	2	12	5.00	4	2	12	5.00	102	0	6	1.57	338
	30	14	15	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	102	0	6	2.02	317
	40	17	18	9	8	18.17	4	2	12	8.66	9	1	12	17.66	9	1	12	18.66	4	2	12	8.66	4	2	12	5.00	4	2	12	5.00	5	2	12	5.00	102	0	6	2.41	312
	50	18	20	9	8	18.17	4	2	12	8.66	7	2	6	17.66	9	1	12	18.66	4	2	12	8.66	4	2	12	5.00	4	2	12	5.00	5	2	12	5.00	102	0	6	2.76	318
	60	22	23	10	8	18.33	4	2	12	8.66	7	2	6	17.83	7	2	6	18.83	4	2	12	8.66	4	2	12	5.00	4	2	12	5.00	4	4	6	5.00	102	0	6	3.04	347

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.	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	8.5	8	8	8	18.00	6	2	6	17.50	8	1	12	17.50	5	1	12	18.50	4	2	12	18.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	90	16	6	1.36	324
	3	8	8	8	8	18.00	9	1	12	17.50	8	1	12	17.50	5	1	12	18.50	7	1	12	18.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	90	16	6	1.35	344
	5	8	8	8	8	18.00	7	1	12	17.50	4	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	108	0	6	1.35	309
	10	8	10	8	8	18.00	6	2	6	17.50	6	1	12	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	108	0	6	1.47	333
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	5	2	12	6.00	4	2	12	6.00	108	0	6	1.64	350
	30	14	15	9	8	18.17	4	2	12	8.66	9	1	12	17.66	9	1	12	17.66	4	2	12	8.66	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	108	0	6	2.15	327
	40	17	18	10	8	18.33	4	2	12	8.66	9	1	12	17.83	9	1	12	18.83	4	2	12	8.66	4	2	12	6.00	5	2	12	6.00	5	2	12	6.00	108	0	6	2.55	332
	50	20	21	11	8	18.50	4	2	12	8.66	9	1	12	18.00	7	2	6	19.00	4	2	12	8.66	4	2	12	6.00	5	2	12	6.00	5	2	12	6.00	108	0	6	2.96	347
	60	22	23	12	8	18.67	4	2	12	8.66	7	2	6	18.16	7	2	6	19.16	4	2	12	8.66	4	2	12	6.00	4	2	12	6.00	4	4	6	6.00	108	0	6	3.25	359

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.	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	8.0	8	8	8	18.00	6	2	6	17.50	8	1	12	17.50	5	1	12	18.50	4	2	6	18.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	96	16	6	1.44	322
	3	8	8	8	8	18.00	9	1	12	17.50	8	1	12	17.50	5	1	12	18.50	7	1	12	18.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	96	16	6	1.43	352
	5	8	8	8	8	18.00	7	1	12	17.50	4	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	114	0	6	1.43	322
	10	8	10	8	8	18.00	6	1	12	17.50	6	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	114	0	6	1.54	342
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	6	2	12	7.00	4	2	12	7.00	114	0	6	1.71	366
	30	14	16	10	8	18.33	4	2	12	8.66	9	1	12	17.83	6	2	6	18.83	4	2	12	8.66	4	2	12	7.00	4	4	6	7.00	4	2	12	7.00	114	0	6	2.35	333
	40	17	19	11	8	18.50	4	2	12	8.66	9	1	12	18.00	9	1	12	19.00	4	2	12	8.66	4	2	12	7.00	4	4	6	7.00	5	2	12	7.00	114	0	6	2.76	347
	50	20	21	12	8	18.66	4	2	12	8.66	9	1	12	18.16	7	2	6	19.16	4	2	12	8.66	4	2	12	7.00	6	2	12	7.00	5	2	12	7.00	114	0	6	3.11	364
	60	22	23	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	4	4	6	7.00	4	4	6	7.00	114	0	6	3.42	379

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.	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	8.5	8	8	8	18.00	6	2	6	17.50	8	1	12	17.50	5	1	12	18.50	4	2	6	18.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	102	16	6	1.51	340
	3	8	8	8	8	18.00	9	1	12	17.50	8	1	12	17.50	5	1	12	18.50	7	1	12	18.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	102	16	6	1.50	360
	5	8	8	8	8	18.00	7	1	12	17.50	4	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	120	0	6	1.50	331
	10	8	10	8	8	18.00	6	2	6	17.50	6	1	12	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	120	0	6	1.62	358
Moment Break	20	10	12	9	8	18.17	4	2	12	8.66	7	2	6	17.67	9	1	12	18.66	4	2	12	8.66	4	2	12	8.00	7	2	12	8.00	4	2	12	8.00	120	0	6	1.91	372
	30	14	16	11	8	18.50	4	2	12	8.66	9	1	12	18.00	9	1	12	19.00	4	2	12	8.66	4	2	12	8.00	7	2	12	8.00	4	2	12	8.00	120	0	6	2.50	363
	40	17	19	12	8	18.67	4	2	12	8.66	9	1	12	18.16	9	1	12	19.16	4	2	12	8.66	4	2	12	8.00	7	2	12	8.00	5	2	12	8.00	120	0	6	2.92	370
	50	20	21	14	8	19.00	4	2	12	8.66	9	1	12	18.50	7	2	6	19.50	4	2	12	8.66	4	2	12	8.00	7	2	12	8.00	5	2	12	8.00	124	0	6	3.35	388
	60	22	23	15	8	19.17	4	2	12	8.66	7	2	6	18.66	7	2	6	19.66	4	2	12	8.66	4	2	12	8.00	7	2	12	8.00	4	4	6	8.00	124	0	6	3.67	407

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.

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: 2 BARRELS AT 8'-0" CLEAR HEIGHTS 5'-0" THRU 8'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-57

DESIGNED BY _____ DATE _____
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY _____ DATE _____

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