CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	12-7-01	CMH	REVISED TITLE BLOCK

3 @ 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	26.67	6	2	6	26.17	8	1	12	26.16	4	1	12	27.16	8	1	12	27.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	118	24	8	1.84	432
	3	8	8	8	8	26.67	9	1	12	26.16	8	1	12	26.16	5	1	12	27.16	4	2	6	27.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	118	24	8	1.83	460
	5	8	8	8	8	26.67	7	1	12	26.17	4	2	6	26.17	4	2	6	27.16	7	1	12	27.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	144	0	8	1.83	409
	10	9	10	8	8	26.67	7	1	12	26.15	4	2	6	26.15	6	1	12	27.15	7	1	12	27.15	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	144	0	8	2.08	414
Moment Break	20	10	11	8	8	26.67	4	3	12	8.66	7	2	6	26.16	7	2	6	27.16	4	3	12	8.66	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	144	0	8	2.25	482
	30	14	15	8	8	26.67	4	3	12	8.66	9	1	12	26.17	9	1	12	27.16	4	3	12	8.66	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	144	0	8	2.92	449
	40	17	18	9	8	26.83	4	3	12	8.66	9	1	12	26.33	9	1	12	27.33	4	3	12	8.66	4	2	12	5.00	5	4	12	5.00	4	4	12	5.00	144	0	8	3.47	454
	50	20	21	9	8	26.83	4	3	12	8.66	9	1	12	26.33	9	1	12	27.33	4	3	12	8.66	4	2	12	5.00	4	2	12	5.00	5	4	12	5.00	144	0	8	3.98	454
	60	22	23	10	8	27.00	4	3	12	8.66	7	2	6	26.50	7	2	6	27.50	4	3	12	8.66	4	2	12	5.00	4	2	12	5.00	4	8	6	5.00	148	0	8	4.37	501

3 @ 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	26.67	6	2	6	26.16	8	1	12	26.16	4	1	12	27.16	5	1	12	27.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	126	24	8	1.94	442
	3	8	8	8	8	26.67	9	1	12	26.17	8	1	12	26.16	5	1	12	27.16	4	2	6	27.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	126	24	8	1.93	471
	5	8	8	8	8	26.67	7	1	12	26.16	4	2	6	26.16	4	2	6	27.16	7	1	12	27.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	152	0	8	1.93	421
	10	9	10	8	8	26.67	7	1	12	26.15	4	2	6	26.15	6	1	12	27.15	7	1	12	27.15	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	152	0	8	2.18	430
Moment Break	20	10	11	8	8	26.67	4	3	12	8.66	7	2	6	26.16	7	2	6	27.16	4	3	12	8.66	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	152	0	8	2.35	498
	30	14	15	9	8	26.83	4	3	12	8.66	9	1	12	26.33	9	1	12	27.33	4	3	12	8.66	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	152	0	8	3.07	462
	40	17	18	10	8	27.00	4	3	12	8.66	9	1	12	26.50	9	1	12	27.50	4	3	12	8.66	4	2	12	6.00	5	2	12	6.00	5	4	12	6.00	156	0	8	3.63	474
	50	20	21	11	8	27.17	4	3	12	8.66	9	1	12	26.66	7	2	6	27.66	4	3	12	8.66	4	2	12	6.00	5	2	12	6.00	5	4	12	6.00	156	0	8	4.20	494
	60	22	23	12	8	27.33	4	3	12	8.66	7	2	6	26.83	7	2	6	27.83	4	3	12	8.66	4	2	12	6.00	4	2	12	6.00	4	8	6	6.00	156	0	8	4.60	517

3 @ 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	8.5	8	8	8	26.67	6	2	6	26.16	8	1	12	26.16	4	1	12	27.16	5	1	12	27.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	134	24	8	2.04	454
	3	8	8	8	8	26.67	9	1	12	26.16	8	1	12	26.16	5	1	12	27.16	4	2	6	27.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	134	24	8	2.03	482
	5	8	8	8	8	26.67	7	1	12	26.16	4	2	6	26.16	4	2	6	27.16	7	1	12	27.16	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	160	0	8	2.03	436
	10	9	10	8	8	26.67	7	1	12	26.15	4	2	6	26.15	6	1	12	27.15	7	1	12	27.15	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	160	0	8	2.28	441
Moment Break	20	10	11	8	8	26.67	4	3	12	8.66	7	2	6	26.16	7	2	6	27.16	4	3	12	8.66	4	2	12	7.00	6	2	12	7.00	4	4	12	7.00	160	0	8	2.45	515
	30	14	16	10	8	27.00	4	3	12	8.66	9	1	12	26.50	6	2	6	27.50	4	3	12	8.66	4	2	12	7.00	4	4	6	7.00	4	4	12	7.00	164	0	8	3.32	470
	40	17	19	11	8	27.17	4	3	12	8.66	9	1	12	26.66	9	1	12	27.66	4	3	12	8.66	4	2	12	7.00	4	4	6	7.00	5	4	12	7.00	164	0	8	3.89	493
	50	20	21	12	8	27.33	4	3	12	8.66	9	1	12	26.83	7	2	6	27.83	4	3	12	8.66	4	2	12	7.00	6	2	12	7.00	5	4	12	7.00	164	0	8	4.38	516
	60	22	23	13	8	27.50	4	3	12	8.66	7	2	6	27.00	7	2	6	28.00	4	3	12	8.66	4	2	12	7.00	4	4	6	7.00	4	8	6	7.00	164	0	8	4.79	541

3 @ 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	26.66	6	2	6	26.16	8	1	12	26.16	4	1	12	27.16	5	1	12	27.16	4	2	12	8.00	4	2	12	8.00	4	4	12	8.00	142	24	8	2.14	464
	3	8	8	8	8	26.66	9	1	12	26.16	8	1	12	26.16	5	1	12	27.16	4	2	6	27.16	4	2	12	8.00	4	2	12	8.00	4	4	12	8.00	142	24	8	2.13	492
	5	8	8	8	8	26.66	7	1	12	26.16	4	2	6	26.16	4	2	6	27.16	7	1	12	27.16	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	168	0	8	2.13	447
	10	9	10	8	8	26.66	7	1	12	26.15	4	2	6	26.15	6	1	12	27.15	7	1	12	27.15	4	2	12	8.00	4	4	6	8.00	4	4	12	8.00	168	0	8	2.38	456
Moment Break	20	10	12	9	8	26.83	4	3	12	8.66	7	2	6	26.33	9	1	12	27.33	4	3	12	8.66	4	2	12	8.00	7	2	12	8.00	4	4	12	8.00	168	0	8	2.69	518
	30	14	16	11	8	27.17	4	3	12	8.66	9	1	12	26.66	9	1	12	27.66	4	3	12	8.66	4	2	12	8.00	7	2	12	8.00	4	4	12	8.00	172	0	8	3.50	505
	40	17	19	12	8	27.33	4	3	12	8.66	9	1	12	26.83	9	1	12	27.83	4	3	12	8.66	4	2	12	8.00	7	2	12	8.00	5	4	12	8.00	172	0	8	4.08	519
	50	20	21	14	8	27.67	4	3	12	8.66	9	1	12	27.16	7	2	6	28.16	4	3	12	8.66	4	2	12	8.00	7	2	12	8.00	5	4	12	8.00	172	0	8	4.65	540
	60	22	23	15	8	27.83	4	3	12	8.66	7	2	6	27.33	7	2	6	28.33	4	3	12	8.66	4	2	12	8.00	7	2	12	8.00	4	8	6	8.00	172	0	8	5.07	570

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

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

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

STD-15-77