CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	12-7-01	CMH	ADDED PER FOOT QUANTITY BLOCKS

3 @ 10 x 4 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.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	8	32.67	6	2	6	32.16	8	1	12	32.16	5	1	12	33.16	5	1	12	33.16	4	2	12	4.00	4	2	12	4.00	4	4	12	4.00	128	30	2.18	496
	3	9	8	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	6	33.16	7	1	12	33.16	4	2	12	4.00	4	2	12	4.00	4	4	12	4.00	128	30	2.13	563
	5	8	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	7	1	12	33.16	8	1	12	33.16	4	2	12	4.00	4	2	12	4.00	4	4	12	4.00	160	0	2.03	553
	10	10	11	8	8	32.67	8	1	12	32.15	7	1	12	32.15	7	1	12	33.15	8	1	12	33.15	4	2	12	4.00	4	2	12	4.00	4	4	12	4.00	160	0	2.54	543
Moment Break	20	11	13	8	8	32.67	4	3	12	10.66	11	1	12	32.16	11	1	12	33.16	4	3	12	10.66	4	2	12	4.00	4	2	12	4.00	4	4	12	4.00	160	0	2.85	624
	30	17	18	8	8	32.67	4	3	12	10.66	7	2	6	32.16	7	2	6	33.16	4	3	12	10.66	4	2	12	4.00	4	2	12	4.00	4	4	12	4.00	160	0	3.97	544
	40	21	22	8	8	32.67	4	3	12	10.66	7	2	6	32.16	7	2	6	33.16	4	3	12	10.66	4	2	12	4.00	4	2	12	4.00	5	4	12	4.00	160	0	4.79	550
	50	24	25	8	8	32.67	4	3	12	10.66	10	1	12	32.16	10	1	12	33.16	4	3	12	10.66	4	2	12	4.00	4	2	12	4.00	4	8	6	4.00	160	0	5.41	569
	60	26	28	8	8	32.67	4	3	12	10.66	11	1	12	32.16	11	1	12	33.16	4	3	12	10.66	4	2	12	4.00	4	2	12	4.00	4	8	6	4.00	160	0	5.92	635

3 @ 10 x 5 REINFORCED CONCRETE BOX BRIDGE

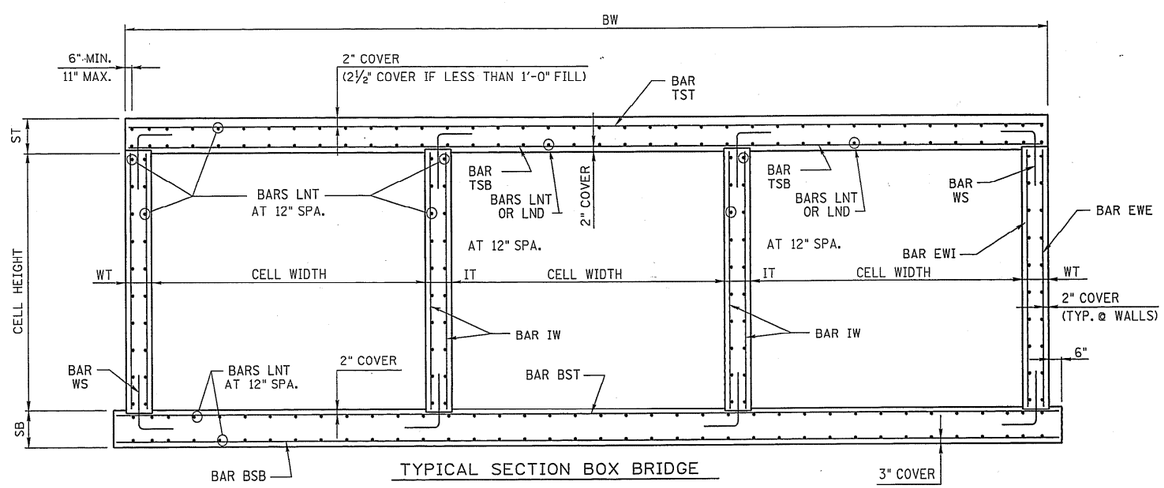
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	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	9.5	8	8	8	32.67	6	2	6	32.16	8	1	12	32.16	5	1	12	33.16	5	1	12	33.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	136	30	8	2.28	507
	3	9	8	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	6	33.16	7	1	12	33.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	136	30	8	2.23	573
	5	8	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	7	1	12	33.16	8	1	12	33.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	172	0	8	2.13	564
	10	10	11	8	8	32.67	8	1	12	32.15	7	1	12	32.15	7	1	12	33.15	8	1	12	33.15	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	172	0	8	2.64	553
Moment Break	20	11	13	8	8	32.67	4	3	12	10.66	11	1	12	32.16	11	1	12	33.16	4	3	12	10.66	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	172	0	8	2.95	635
	30	17	18	8	8	32.67	4	3	12	10.66	7	2	6	32.16	7	2	6	33.16	4	3	12	10.66	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	172	0	8	4.07	555
	40	21	22	8	8	32.67	4	3	12	10.66	7	2	6	32.16	7	2	6	33.16	4	3	12	10.66	4	2	12	5.00	4	2	12	5.00	5	4	12	5.00	172	0	8	4.89	562
	50	24	25	9	8	32.83	4	3	12	10.66	10	1	12	32.33	10	1	12	33.33	4	3	12	10.66	4	2	12	5.00	4	2	12	5.00	4	8	12	5.00	172	0	8	5.56	584
	60	26	28	10	8	33.00	4	3	12	10.66	11	1	12	32.50	11	1	12	33.50	4	3	12	10.66	4	2	12	5.00	4	2	12	5.00	4	8	6	5.00	172	0	8	6.14	655

3 @ 10 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	9.5	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	5	1	12	33.16	5	1	12	33.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	144	30	8	2.38	517
	3	9	8	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	6	33.16	7	1	12	33.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	144	30	8	2.33	583
	5	8	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	5	2	6	33.16	6	2	6	33.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	180	0	8	2.23	587
	10	10	11	8	8	32.67	8	1	12	32.15	7	1	12	32.15	7	1	12	33.15	8	1	12	33.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	180	0	8	2.74	564
Moment Break	20	11	13	8	8	32.67	4	3	12	10.66	11	1	12	32.16	11	1	12	33.16	4	3	2	10.66	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	180	0	8	3.05	651
	30	17	18	8	8	32.67	4	3	12	10.66	7	2	6	32.16	7	2	6	33.16	4	3	12	10.66	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	180	0	8	4.17	571
	40	21	22	10	8	33.00	4	3	12	10.66	7	2	6	32.50	7	2	6	33.50	4	3	12	10.66	4	2	12	6.00	5	4	12	6.00	4	4	12	6.00	180	0	8	5.11	580
	50	24	25	11	8	33.17	4	3	12	10.66	10	1	12	32.66	11	1	12	33.66	4	3	12	10.66	4	2	12	6.00	4	2	12	6.00	4	8	6	6.00	180	0	8	5.79	636
	60	26	28	11	8	33.17	4	3	12	10.66	11	1	12	32.66	11	1	12	33.66	4	3	2	10.66	4	2	12	6.00	4	2	12	6.00	4	8	6	6.00	180	0	8	6.31	669

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 10'-0" CLEAR HEIGHTS 4'-0" THRU 6'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

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

STD-15-78