CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 16 x 9 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	34.00	10	1	12	33.50	9	1	12	33.50	7	1	12	34.50	6	2	6	34.50	4	2	12	9.00	4	2	12	9.00	4	2	12	9.00	156	32	6	2.73	686
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	9.00	5	2	12	9.00	4	2	12	9.00	156	32	6	3.11	723
	5	12	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	8	1	12	34.50	11	1	12	34.50	4	2	12	9.00	5	2	12	9.00	4	2	12	9.00	190	0	6	3.22	792
	10	13	15	8	8	34.00	9	2	6	33.50	6	2	6	33.50	6	2	6	34.50	11	1	12	34.50	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	190	0	6	3.65	883
Moment Break	20	16	18	9	8	34.17	4	2	12	16.66	10	2	6	34.66	10	2	6	34.66	4	2	12	16.66	4	2	12	9.00	8	2	12	9.00	5	2	12	9.00	190	0	6	4.36	918
	30	25	27	11	8	34.50	4	2	12	16.66	9	2	6	34.00	9	2	6	35.00	4	2	12	16.66	4	2	12	9.00	7	2	12	9.00	4	4	6	9.00	190	0	6	6.45	793
	40	31	33	13	8	34.83	4	2	12	16.66	9	2	6	34.33	9	2	6	35.33	4	2	12	16.66	4	2	12	9.00	7	2	12	9.00	7	2	12	9.00	190	0	6	7.92	810
	50	36	38	14	8	35.00	4	2	12	16.66	10	2	6	34.50	10	2	6	35.50	4	2	12	16.66	4	2	12	9.00	8	2	12	9.00	8	2	12	9.00	194	0	6	9.11	944
	60	40	42	16	8	35.33	4	2	12	16.66	10	2	6	34.83	10	2	6	35.83	4	2	12	16.66	4	2	12	9.00	5	2	12	9.00	6	4	6	9.00	194	0	6	10.18	947

2 @ 16 x 10 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	34.00	10	1	12	33.50	9	1	12	33.50	7	1	12	34.50	9	1	12	34.50	4	2	12	10.00	5	2	12	10.00	4	2	12	10.00	162	32	6	2.81	715
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	10.00	4	4	6	10.00	4	2	12	10.00	162	32	6	3.18	737
	5	12	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	8	1	12	34.50	11	1	12	34.50	4	2	12	10.00	6	2	12	10.00	4	2	12	10.00	196	0	6	3.29	810
	10	13	15	8	8	34.00	9	2	6	33.50	6	2	6	33.50	6	2	6	34.50	11	1	12	34.50	4	2	12	10.00	6	4	6	10.00	4	2	12	10.00	196	0	6	3.72	913
Moment Break	20	16	19	10	8	34.33	4	2	12	16.66	10	2	6	33.83	10	2	6	34.83	4	2	12	16.66	4	2	12	10.00	8	2	12	10.00	5	2	12	10.00	196	0	6	4.63	934
	30	25	27	12	8	34.67	4	2	12	16.66	9	2	6	34.16	9	2	6	35.16	4	2	12	16.66	4	2	12	10.00	8	2	12	10.00	4	4	6	10.00	196	0	6	6.63	820
	40	31	33	14	8	35.00	4	2	12	16.66	9	2	6	34.50	9	2	6	35.50	4	2	12	16.66	4	2	12	10.00	7	2	12	10.00	7	2	12	10.00	200	0	6	8.12	829
	50	36	38	16	8	35.33	4	2	12	16.66	10	2	6	34.83	10	2	6	35.83	4	2	12	16.66	4	2	12	10.00	7	2	12	10.00	8	2	12	10.00	200	0	6	9.42	974
	60	40	42	17	8	35.50	4	2	12	16.66	10	2	6	35.00	10	2	6	36.00	4	2	12	16.66	4	2	12	10.00	7	2	12	10.00	6	4	6	10.00	200	0	6	10.41	983

2 @ 16 x 11 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	34.00	10	1	12	33.50	9	1	12	33.50	7	1	12	34.50	9	1	12	34.50	4	2	12	11.00	5	2	12	11.00	4	2	12	11.00	168	32	6	2.88	724
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	11.00	6	2	12	11.00	4	2	12	11.00	168	32	6	3.26	750
	5	12	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	8	1	12	34.50	11	1	12	34.50	4	2	12	11.00	8	2	12	11.00	4	2	12	11.00	202	0	6	3.37	846
	10	13	15	8	8	34.17	9	2	6	33.66	6	2	6	33.66	6	2	6	34.66	8	2	6	34.66	4	2	12	11.00	6	4	6	11.00	4	2	12	11.00	202	0	6	3.88	929
Moment Break	20	16	19	11	8	34.50	4	2	12	16.66	10	2	6	34.00	10	2	6	35.00	4	2	12	16.66	4	2	12	11.00	6	4	6	11.00	5	2	12	11.00	202	0	6	4.80	957
	30	25	27	13	8	34.83	4	2	12	16.66	9	2	6	34.33	9	2	6	35.33	4	2	12	16.66	4	2	12	11.00	6	4	6	11.00	4	4	6	11.00	202	0	6	6.82	843
	40	31	33	15	8	35.17	4	2	12	16.66	9	2	6	34.66	9	2	6	35.66	4	2	12	16.66	4	2	12	11.00	8	2	12	11.00	7	2	12	11.00	206	0	6	8.33	859
	50	36	38	17	8	35.50	4	2	12	16.66	10	2	6	35.00	10	2	6	36.00	4	2	12	16.66	4	2	12	11.00	8	2	12	11.00	8	2	12	11.00	206	0	6	9.65	1005
	60	40	42	19	8	35.83	4	2	12	16.66	10	2	6	35.33	10	2	6	36.33	4	2	12	16.66	4	2	12	11.00	5	4	6	11.00	6	4	6	11.00	206	0	6	10.76	1005

2 @ 16 x 12 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	34.00	10	1	12	33.50	9	1	12	33.50	7	1	12	34.50	9	1	12	34.50	4	2	12	12.00	6	2	12	12.00	5	2	12	12.00	174	32	6	2.96	753
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	12.00	8	2	12	12.00	5	2	12	12.00	174	32	6	3.33	797
	5	12	12	9	8	34.17	11	1	12	33.66	8	1	12	33.66	8	1	12	34.66	11	1	12	34.66	4	2	12	12.00	8	2	12	12.00	5	2	12	12.00	208	0	6	3.53	869
	10	13	15	10	8	34.33	9	2	6	33.83	6	2	6	33.83	6	2	6	34.83	9	2	6	34.83	4	2	12	12.00	9	2	12	12.00	5	2	12	12.00	208	0	6	4.05	1014
Moment Break	20	16	19	12	8	34.67	4	2	12	16.66	10	2	6	34.16	10	2	6	35.16	4	2	12	16.66	4	2	12	12.00	9	2	12	12.00	5	2	12	12.00	208	0	6	4.98	982
	30	25	27	15	8	35.17	4	2	12	16.66	9	2	6	34.66	9	2	6	35.66	4	2	12	16.66	4	2	12	12.00	8	2	12	12.00	4	4	6	12.00	212	0	6	7.13	856
	40	31	33	17	8	35.50	4	2	12	16.66	9	2	6	35.00	9	2	6	36.00	4	2	12	16.66	4	2	12	12.00	6	4	6	12.00	7	2	12	12.00	212	0	6	8.66	886
	50	36	38	19	8	35.83	4	2	12	16.66	10	2	6	35.33	10	2	6	36.33	4	2	12	16.66	4	2	12	12.00	8	2	12	12.00	8	2	12	12.00	212	0	6	10.00	1027
	60	40	42	21	8	36.17	4	2	12	16.66	10	2	6	35.66	10	2	6	36.66	4	2	12	16.66	4	2	12	12.00	8	2	12	12.00	6	4	6	12.00	216	0	6	11.13	1043

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 16'-0" CLEAR HEIGHTS 9'-0" THRU 12'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-66

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

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