CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 16 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	50.66	7	2	6	50.16	7	2	6	50.16	7	1	12	51.16	8	1	12	51.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	198	48	8	3.51	972
	3	11	10	8	8	50.66	10	1	12	50.16	7	2	6	50.16	5	2	6	51.16	6	2	6	51.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	198	48	8	3.90	1002
	5	11	11	8	8	50.66	11	1	12	50.16	9	1	12	50.16	6	2	6	51.16	7	2	6	51.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	248	0	8	4.06	1104
	10	14	15	8	8	50.66	7	2	6	50.15	6	2	6	50.15	6	2	6	51.15	7	2	6	51.15	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	248	0	8	5.17	1023
Moment Break	20	16	18	8	8	50.66	4	3	12	16.66	10	2	6	50.16	10	2	6	51.16	4	3	12	16.66	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	248	0	8	5.96	1243
	30	25	26	8	8	50.66	4	3	12	16.66	9	2	6	50.16	9	2	6	51.16	4	3	12	16.66	4	2	12	6.00	4	2	12	6.00	5	4	12	6.00	248	0	8	8.64	1069
	40	31	32	9	8	50.83	4	3	12	16.66	9	2	6	50.33	9	2	6	51.33	4	3	12	16.66	4	2	12	6.00	4	2	12	6.00	6	4	12	6.00	248	0	8	10.61	1082
	50	36	37	10	8	51.00	4	3	12	16.66	9	2	6	50.50	10	2	6	51.50	4	3	12	16.66	4	2	12	6.00	4	2	12	6.00	7	4	12	6.00	252	0	8	12.27	1284
	60	40	42	11	8	51.17	4	3	12	16.66	10	2	6	50.66	10	2	6	51.66	4	3	12	16.66	4	2	12	6.00	4	2	12	6.00	8	4	12	6.00	252	0	8	13.78	1302

3 @ 16 x 7 REINFORCED CONCRETE BOX BRIDGE

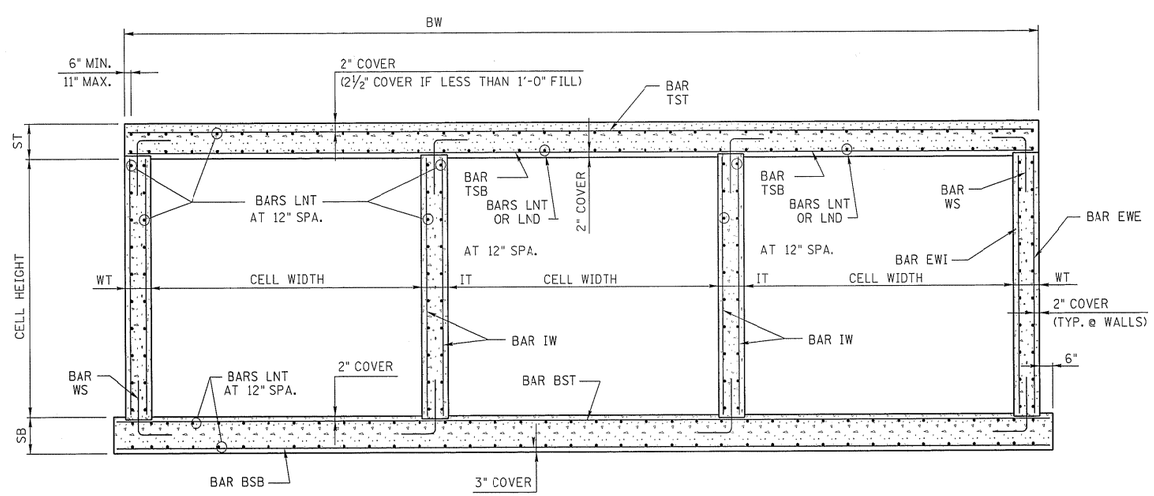
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	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	50.66	7	2	6	50.16	7	2	6	50.16	7	1	12	51.16	8	1	12	51.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	206	48	8	3.61	983
	3	11	10	8	8	50.66	10	1	12	50.16	7	2	6	50.16	8	1	12	51.16	6	2	6	51.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	206	48	8	4.00	1043
	5	11	11	8	8	50.66	11	1	12	50.16	9	1	12	50.16	6	2	6	51.16	7	2	6	51.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	256	0	8	4.16	1115
	10	14	15	8	8	50.66	7	2	6	50.15	6	2	6	50.15	9	1	12	51.15	7	2	6	51.15	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	256	0	8	5.27	1059
Moment Break	20	16	18	8	8	50.66	4	3	12	16.66	10	2	6	50.16	10	2	6	51.16	4	3	12	16.66	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	256	0	8	6.06	1259
	30	25	26	9	8	50.83	4	3	12	16.66	9	2	6	50.33	9	2	6	51.33	4	3	12	16.66	4	2	12	7.00	5	2	12	7.00	5	4	12	7.00	256	0	8	8.81	1089
	40	31	32	10	8	51.00	4	3	12	16.66	9	2	6	50.50	9	2	6	51.50	4	3	12	16.66	4	2	12	7.00	4	2	12	7.00	6	4	12	7.00	260	0	8	10.79	1101
	50	36	37	11	8	51.17	4	3	12	16.66	10	2	6	50.66	10	2	6	51.66	4	3	12	16.66	4	2	12	7.00	4	2	12	7.00	7	4	12	7.00	260	0	8	12.46	1304
	60	40	42	12	8	51.33	4	3	12	16.66	10	2	6	50.83	10	2	6	51.83	4	3	12	16.66	4	2	12	7.00	4	2	12	7.00	8	4	12	7.00	260	0	8	13.98	1324

3 @ 16 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	8	8	8	50.67	7	2	6	50.16	7	2	6	50.16	7	1	12	51.16	8	1	12	51.16	4	2	12	8.00	4	2	12	8.00	4	4	12	8.00	214	48	8	3.70	993
	3	11	10	8	8	50.67	10	1	12	50.16	7	2	6	50.16	8	1	12	51.16	6	2	6	51.16	4	2	12	8.00	4	2	12	8.00	4	4	12	8.00	214	48	8	4.10	1053
	5	11	11	8	8	50.67	11	1	12	50.16	9	1	12	50.16	6	2	6	51.16	7	2	6	51.16	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	264	0	8	4.26	1131
	10	14	15	8	8	50.67	7	2	6	50.15	6	2	6	50.15	9	1	12	51.15	7	2	6	51.15	4	2	12	8.00	4	4	6	8.00	4	4	12	8.00	264	0	8	5.37	1074
Moment Break	20	16	18	9	8	50.83	4	3	12	16.66	10	2	6	50.33	10	2	6	51.33	4	3	12	16.66	4	2	12	8.00	4	4	6	8.00	5	4	12	8.00	264	0	8	6.22	1289
	30	25	26	10	8	51.00	4	3	12	16.66	9	2	6	50.50	9	2	6	51.50	4	3	12	16.66	4	2	12	8.00	7	2	12	8.00	5	4	12	8.00	268	0	8	8.99	1122
	40	31	33	12	8	51.33	4	3	12	16.66	9	2	6	50.83	9	2	6	51.83	4	3	12	16.66	4	2	12	8.00	5	2	12	8.00	6	4	12	8.00	268	0	8	11.22	1126
	50	36	38	13	8	51.50	4	3	12	16.66	10	2	6	51.00	10	2	6	52.00	4	3	12	16.66	4	2	12	8.00	5	2	12	8.00	7	4	12	8.00	268	0	8	12.91	1331
	60	40	42	14	8	51.67	4	3	12	16.66	10	2	6	51.16	10	2	6	52.16	4	3	12	16.66	4	2	12	8.00	4	2	12	8.00	8	4	12	8.00	268	0	8	14.29	1348

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 16'-0"
CLEAR HEIGHTS 6'-0" THRU 8'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

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

STD-15-85