2 @ 18 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	11.5	9	8	8	38.00	7	2	6	37.50	9	1	12	37.50	7	1	12	38.50	9	1	12	38.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	150	36	6	2.87	732
	3	12	11	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	10	1	12	38.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	150	36	6	3.17	863
	5	13	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	8	1	12	38.50	11	1	12	38.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	188	0	6	3.53	850
	10	14	15	8	8	38.00	9	2	6	37.50	7	2	6	37.50	7	2	6	38.50	9	2	6	38.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	188	0	6	3.89	1057
Moment Break	20	18	20	8	8	38.00	4	2	12	18.66	11	2	6	37.50	10	2	6	38.50	4	2	12	18.66	4	2	12	6.00	4	2	12	6.00	5	2	12	6.00	188	0	6	4.96	1014
	30	28	29	8	8	38.00	4	2	12	18.66	10	2	6	37.50	10	2	6	38.50	4	2	12	18.66	4	2	12	6.00	4	2	12	6.00	4	4	6	6.00	188	0	6	7.21	942
	40	35	36	9	8	38.17	4	2	12	18.66	10	2	6	37.66	10	2	6	38.66	4	2	12	18.66	4	2	12	6.00	4	2	12	6.00	7	2	12	6.00	188	0	6	8.95	553
	50	40	42	10	8	38.33	4	2	12	18.66	10	2	6	37.83	10	2	6	38.83	4	2	12	18.66	4	2	12	6.00	4	2	12	6.00	8	2	12	6.00	188	0	6	10.34	963
	60	45	46	11	8	38.50	4	2	12	18.66	10	2	6	38.00	10	2	6	39.00	4	2	12	18.66	4	2	12	6.00	4	2	12	6.00	9	2	12	6.00	188	0	6	11.51	975

2 @ 18 x 7 REINFORCED CONCRETE BOX BRIDGE

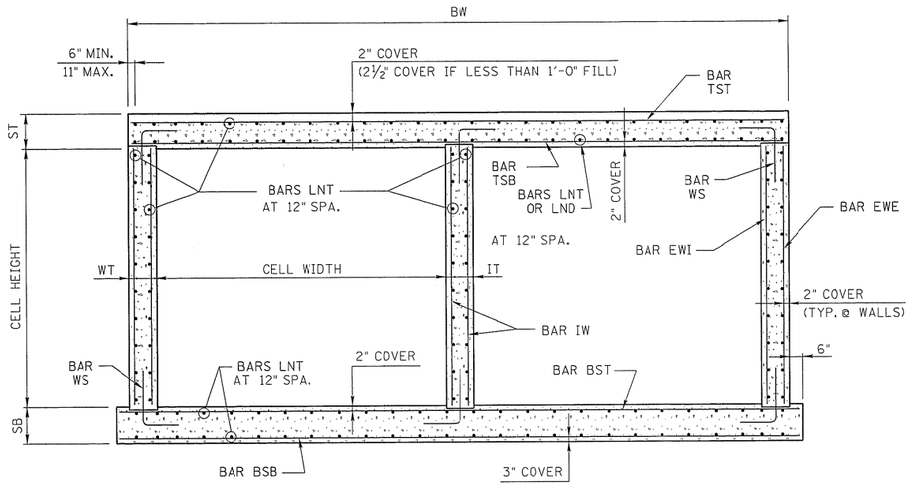
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	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	11.5	10	8	8	38.00	7	2	6	37.50	9	1	12	37.50	6	1	12	38.50	6	2	6	38.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	156	36	6	3.07	704
	3	12	11	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	10	1	12	38.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	156	36	6	3.24	871
	5	13	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	8	1	12	38.50	11	1	12	38.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	194	0	6	3.60	858
	10	14	15	8	8	38.00	9	2	6	37.50	7	2	6	37.50	7	2	6	38.50	9	2	6	38.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	194	0	6	3.96	1065
Moment Break	20	18	20	8	8	38.00	4	2	12	18.66	11	2	6	37.50	10	2	6	38.50	4	2	12	18.66	4	2	12	7.00	5	2	12	7.00	5	2	12	7.00	194	0	6	5.03	1028
	30	28	29	9	8	38.17	4	2	12	18.66	10	2	6	37.66	10	2	6	38.66	4	2	12	18.66	4	2	12	7.00	4	2	12	7.00	4	4	6	7.00	194	0	6	7.36	954
	40	35	36	10	8	38.33	4	2	12	18.66	10	2	6	37.83	10	2	6	38.83	4	2	12	18.66	4	2	12	7.00	4	2	12	7.00	7	2	12	7.00	194	0	6	9.11	967
	50	40	42	11	8	38.50	4	2	12	18.66	10	2	6	38.00	10	2	6	39.00	4	2	12	18.66	4	2	12	7.00	4	2	12	7.00	8	2	12	7.00	194	0	6	10.52	978
	60	45	46	12	8	38.67	4	2	12	18.66	10	2	6	38.16	10	2	6	39.16	4	2	12	18.66	4	2	12	7.00	4	2	12	7.00	9	2	12	7.00	194	0	6	11.69	991

2 @ 18 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	11.5	10	8	8	38.00	7	2	6	37.50	9	1	12	37.50	6	1	12	38.50	6	2	6	38.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	162	36	6	3.14	712
	3	12	11	8	8	38.00	11	1	12	37.50	7	2	6	37.50	8	1	12	38.50	11	1	12	38.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	162	36	6	3.32	918
	5	13	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	8	1	12	38.50	11	1	12	38.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	200	0	6	3.68	872
	10	14	16	8	8	38.00	9	2	6	37.50	7	2	6	37.50	9	1	12	38.50	9	2	6	38.50	4	4	6	8.00	4	4	6	8.00	4	2	12	8.00	200	0	6	4.16	1057
Moment Break	20	18	20	8	8	38.00	4	2	12	18.66	11	2	6	37.50	10	2	6	38.50	4	2	12	18.66	4	2	12	8.00	7	2	12	8.00	5	2	12	8.00	200	0	6	5.11	1053
	30	28	29	10	8	38.33	4	2	12	18.66	10	2	6	37.83	10	2	6	38.83	4	2	12	18.66	4	2	12	8.00	4	4	6	8.00	4	4	6	8.00	200	0	6	7.52	977
	40	35	36	11	8	38.50	4	2	12	18.66	10	2	6	38.00	10	2	6	39.00	4	2	12	18.66	4	2	12	8.00	4	4	6	8.00	7	2	12	8.00	200	0	6	9.28	991
	50	40	42	13	8	38.83	4	2	12	18.66	10	2	6	38.33	10	2	6	39.33	4	2	12	18.66	4	2	12	8.00	4	2	12	8.00	8	2	12	8.00	200	0	6	10.79	996
	60	45	47	14	8	39.00	4	2	12	18.66	10	2	6	38.50	10	2	6	39.50	4	2	12	18.66	4	2	12	8.00	4	2	12	8.00	9	2	12	8.00	204	0	6	12.10	1013

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.



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: 2 BARRELS AT 18'-0"
CLEAR HEIGHTS 6'-0" THRU 8'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-68

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

d:\std2000\std-15\2barrel_box18

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION