CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 16 x 13 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	11.50	4	4	6	11.50	5	4	12	11.50	150	48	4	4	1.66	3.26	776
	3	11	8	8	50.67	10	1	12	50.16	7	2	6	50.16	4	2	12	11.50	7	2	12	11.50	5	4	12	11.50	150	48	4	4	1.66	3.33	803
	5	11	8	8	50.67	11	1	12	50.16	9	1	12	50.16	4	2	12	11.50	6	4	6	11.50	5	4	12	11.50	200	0	4	4	1.66	3.33	825
	10	14	9	8	50.83	7	2	6	50.33	6	2	6	50.33	4	2	12	11.50	7	4	6	11.50	5	4	12	11.50	202	0	4	4	1.75	3.89	770
Moment Break	20	16	12	8	51.33	4	3	12	16.66	10	2	6	50.83	4	2	12	11.50	8	2	12	11.50	5	4	12	11.50	202	0	4	4	2	4.47	853
	30	25	14	8	51.67	4	3	12	16.66	9	2	6	51.17	4	2	12	11.50	6	4	6	11.50	5	4	12	11.50	202	0	4	4	2.16	6.08	771
	40	31	16	8	52.00	4	3	12	16.66	9	2	6	51.50	4	2	12	11.50	8	2	12	11.50	6	4	12	11.50	204	0	4	4	2.33	7.23	788
	50	36	18	8	52.33	4	3	12	16.66	10	2	6	51.83	4	2	12	11.50	8	2	12	11.50	7	4	12	11.50	204	0	4	4	2.5	8.23	909
	60	40	20	8	52.67	4	3	12	16.66	10	2	6	52.16	4	2	12	11.50	8	2	12	11.50	8	4	12	11.50	204	0	4	4	2.66	9.08	941

3 @ 16 x 14 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	12.50	7	2	12	12.50	5	4	12	12.50	158	48	4	4	1.66	3.35	808
	3	11	8	8	50.67	10	1	12	50.16	7	2	6	50.16	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	158	48	4	4	1.66	3.43	842
	5	11	9	8	50.83	11	1	12	50.33	9	1	12	50.33	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	208	0	4	4	1.75	3.52	843
	10	14	10	8	51.00	7	2	6	50.50	6	2	6	50.50	4	2	12	12.50	7	4	6	12.50	5	4	12	12.50	210	0	4	4	1.83	4.09	791
Moment Break	20	16	13	8	51.50	4	3	12	16.66	10	2	6	51.00	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	210	0	4	4	2.08	4.69	878
	30	25	15	8	51.83	4	3	12	16.66	9	2	6	51.33	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	210	0	4	4	2.25	6.32	789
	40	31	18	8	52.33	4	3	12	16.66	9	2	6	51.83	4	2	12	12.50	6	4	6	12.50	6	4	12	12.50	212	0	4	4	2.5	7.58	817
	50	36	20	8	52.67	4	3	12	16.66	10	2	6	52.16	4	2	12	12.50	8	2	12	12.50	7	4	12	12.50	212	0	4	4	2.66	8.60	933
	60	40	21	8	52.83	4	3	12	16.66	10	2	6	52.33	4	2	12	12.50	6	4	6	12.50	8	4	12	12.50	212	0	4	4	2.75	9.36	974

3 @ 16 x 15 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	13.50	6	4	6	13.50	4	8	6	13.50	166	48	4	4	1.66	3.45	864
	3	11	9	8	50.83	10	1	12	50.33	7	2	6	50.33	4	2	12	13.50	8	2	12	13.50	4	8	6	13.50	166	48	4	4	1.75	3.63	867
	5	11	9	8	50.83	11	1	12	50.33	9	1	12	50.33	4	2	12	13.50	7	4	6	13.50	4	8	6	13.50	216	0	4	4	1.75	3.63	905
	10	14	11	8	51.17	7	2	6	50.65	6	2	6	50.65	4	2	12	13.50	7	4	6	13.50	4	8	6	13.50	218	0	4	4	1.91	4.30	828
Moment Break	20	16	14	8	51.67	4	3	12	16.66	10	2	6	51.16	4	2	12	13.50	9	2	12	13.50	4	8	6	13.50	218	0	4	4	2.16	4.92	924
	30	25	16	8	52.00	4	3	12	16.66	9	2	6	51.50	4	2	12	13.50	7	4	6	13.50	4	8	6	13.50	220	0	4	4	2.33	6.56	854
	40	31	19	8	52.50	4	3	12	16.66	9	2	6	52.00	4	2	12	13.50	9	2	12	13.50	6	4	12	13.50	220	0	4	4	2.58	7.85	848
	50	36	21	8	52.83	4	3	12	16.66	10	2	6	52.33	4	2	12	13.50	9	2	12	13.50	7	4	12	13.50	220	0	4	4	2.75	8.88	974
	60	40	23	8	53.17	4	3	12	16.66	10	2	6	52.66	4	2	12	13.50	6	4	6	13.50	8	4	12	13.50	222	0	4	4	2.91	9.76	1001

3 @ 16 x 16 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	9	8	50.83	7	2	6	50.33	7	2	6	50.33	4	2	12	14.50	8	2	12	14.50	7	4	12	14.50	174	48	4	4	1.75	3.66	914
	3	11	9	8	50.83	10	1	12	50.33	7	2	6	50.33	4	2	12	14.50	7	4	6	14.50	7	4	12	14.50	174	48	4	4	1.75	3.73	966
	5	11	10	8	51.00	11	1	12	50.50	9	1	12	50.50	4	2	12	14.50	7	4	6	14.50	7	4	12	14.50	226	0	4	4	1.83	3.84	969
	10	14	12	8	51.33	7	2	6	50.83	6	2	6	50.83	4	2	12	14.50	7	4	6	14.50	7	4	12	14.50	226	0	4	4	2	4.52	890
Moment Break	20	16	15	8	51.83	4	3	12	16.66	10	2	6	51.33	4	2	12	14.50	7	4	6	14.50	7	4	12	14.50	226	0	4	4	2.25	5.16	1005
	30	25	18	8	52.33	4	3	12	16.66	9	2	6	51.83	4	2	12	14.50	9	2	12	14.50	7	4	12	14.50	228	0	4	4	2.5	6.93	897
	40	31	20	8	52.67	4	3	12	16.66	9	2	6	52.16	4	2	12	14.50	7	4	6	14.50	7	4	12	14.50	228	0	4	4	2.66	8.13	919
	50	36	23	8	53.17	4	3	12	16.66	10	2	6	52.66	4	2	12	14.50	9	2	12	14.50	7	4	12	14.50	230	0	4	4	2.91	9.30	1000
	60	40	25	8	53.50	4	3	12	16.66	10	2	6	53.00	4	2	12	14.50	9	2	12	14.50	8	4	12	14.50	230	0	4	4	3.08	10.19	1040

Note: Maximum fill height 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.
Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
Bars IWF Size = 4 No. = 2 Spacing = 12 in. Length = 1.66 ft.
Bars EWF Size = 4 No. = 2 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 SLAB BRIDGE
INTERIOR SECTION
SPANS: 3 BARREL AT 16'-0"
CLEAR HEIGHTS 13'-0" THRU 16'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-147

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

DGN: td2023\16\3barrel_slab1
DATE: 4/4/2003