STD-125¢126¢127¢128_1BARREL_SLAB18'.DGN

CONST. NO.		
PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 6 REINFORCED CONCRETE SLAB BRIDGE

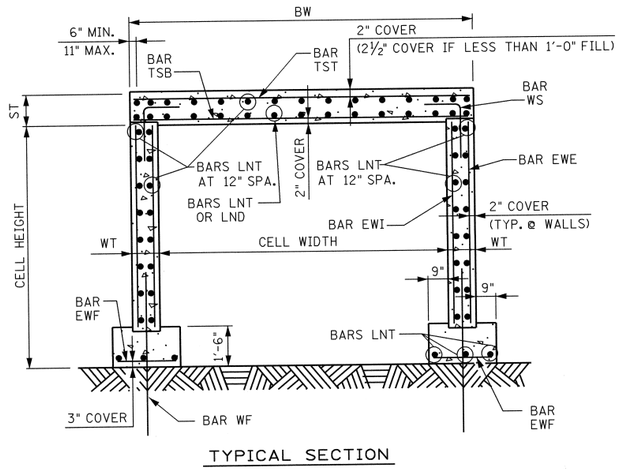
Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	4.50	5	2	12	4.50	41	36	2	2	1.67	1.15	316
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	4.50	5	2	12	4.50	41	36	2	2	1.67	1.36	254
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	4.50	5	2	12	4.50	60	0	2	2	1.67	1.36	257
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	4.50	5	2	12	4.50	60	0	2	2	1.67	1.36	291
20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	4	2	12	4.50	5	2	12	4.50	60	0	2	2	1.67	1.66	329
30	29	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	4.50	5	2	12	4.50	60	0	2	2	1.67	2.19	291
40	36	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	4.50	5	2	12	4.50	60	0	2	2	1.67	2.61	291
50	41	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	4.50	6	4	6	4.50	60	0	2	2	1.67	2.91	309
60	46	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	4.50	5	2	12	4.50	60	0	2	2	1.75	3.27	293

1 @ 18 x 7 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars EWI 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
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	5.50	5	2	12	5.50	45	36	2	2	1.67	1.20	322
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	5.50	5	2	12	5.50	45	36	2	2	1.67	1.41	261
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	5.50	5	2	12	5.50	64	0	2	2	1.67	1.41	263
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	5.50	5	2	12	5.50	64	0	2	2	1.67	1.41	297
20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	4	2	12	5.50	5	2	12	5.50	64	0	2	2	1.67	1.71	335
30	29	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	5.50	5	2	12	5.50	64	0	2	2	1.67	2.24	297
40	36	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	5.50	5	2	12	5.50	64	0	2	2	1.75	2.72	299
50	41	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	5.50	6	4	6	5.50	64	0	2	2	1.75	3.02	320
60	46	10	19.67	4	1	12	19.17	10	2	6	19.17	4	2	12	5.50	5	4	6	5.50	64	0	2	2	1.83	3.39	312

1 @ 18 x 8 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars EWI 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
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	6.50	5	2	12	6.50	49	36	2	2	1.67	1.25	328
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	6.50	5	2	12	6.50	49	36	2	2	1.67	1.46	267
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	6.50	5	2	12	6.50	68	0	2	2	1.67	1.46	269
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	6.50	5	2	12	6.50	68	0	2	2	1.67	1.46	303
20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	4	2	12	6.50	5	2	12	6.50	68	0	2	2	1.67	1.76	341
30	29	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	6.50	7	4	6	6.50	68	0	2	2	1.67	2.29	343
40	36	10	19.67	4	1	12	19.17	10	2	6	19.17	4	2	12	6.50	5	2	12	6.50	68	0	2	2	1.83	2.85	307
50	41	10	19.67	4	1	12	19.17	10	2	6	19.17	4	2	12	6.50	7	4	6	6.50	68	0	2	2	1.83	3.15	346
60	46	11	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	6.50	7	4	6	6.50	68	0	2	2	1.92	3.53	348



TYPICAL SECTION

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 height of fill above the top slab is less than 1 foot, the top mat of reinforcing in the top slab shall be constructed with 2-1/2 inches of concrete cover.

The following bar information applies to all fill cases in the tables above:
Bars LNT Size = 4 Spacing = 12 in.
Bars LND Size = 5 Spacing = 6 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.
Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
Bars EWF Size = 4 No. = 2 Spacing = 12 in.

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-17-5.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD REINFORCED CONCRETE SLAB BRIDGE INTERIOR SECTION SPANS: 1 BARREL AT 18'-0" CLEAR HEIGHTS 6'-0" THRU 8'-0" 0' THRU 60' FILL 2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-125

DESIGNED BY	RLL/ALP	DATE	12-09
DRAWN BY	KEVIN MARTINKO	DATE	1-10
SUPERVISED BY	EPW/RLC	DATE	12-09
CHECKED BY	RLL/ALP	DATE	2-10

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Jan 06, 2010
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