CONST. NO. _____

| PROJECT NO. | YEAR | SHEET NO. |
|---|---|---|
| | 2010 | |

REVISIONS

| NO. | DATE | BY | BRIEF DESCRIPTION |
|---|---|---|---|
| | | | |

## 2 @ 8 x 6 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. | Bars EWI Size | No. | Spacing in. | Length ft. | Bars IW Size | No. | Spacing in. | Length ft. | Bars LNT No. | Bars LND No. | Bars WS No. | Bars WF No. | Bars EWF Length ft. | Bars IWF Length ft. | Concrete CY/LF | Reinf. Steel LB/LF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Continuous | No Fill | 9.5 | 8 | 8 | 18.00 | 6 | 2 | 6 | 17.50 | 6 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 50 | 16 | 3 | 3 | 1.67 | 1.67 | 1.22 | 268 |
| | 3 | 11 | 8 | 8 | 18.00 | 7 | 2 | 6 | 17.50 | 6 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 50 | 16 | 3 | 3 | 1.67 | 1.67 | 1.31 | 287 |
| | 5 | 11 | 8 | 8 | 18.00 | 5 | 2 | 6 | 17.50 | 5 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 68 | 0 | 3 | 3 | 1.67 | 1.67 | 1.31 | 231 |
| | 10 | 11 | 8 | 8 | 18.00 | 7 | 2 | 6 | 17.50 | 5 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 68 | 0 | 3 | 3 | 1.67 | 1.67 | 1.31 | 266 |
| Moment Break | 20 | 10 | 8 | 8 | 18.00 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 68 | 0 | 3 | 3 | 1.67 | 1.67 | 1.25 | 241 |
| | 30 | 14 | 8 | 8 | 18.00 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 68 | 0 | 3 | 3 | 1.67 | 1.67 | 1.47 | 241 |
| | 40 | 18 | 8 | 8 | 18.00 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.50 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 68 | 0 | 3 | 3 | 1.67 | 1.67 | 1.69 | 245 |
| | 50 | 21 | 9 | 8 | 18.17 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.67 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 69 | 0 | 3 | 3 | 1.75 | 1.67 | 1.91 | 246 |
| | 60 | 24 | 9 | 8 | 18.17 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.67 | 4 | 2 | 12 | 4.50 | 5 | 2 | 12 | 4.50 | 4 | 4 | 6 | 4.50 | 69 | 0 | 3 | 3 | 1.75 | 1.67 | 2.08 | 249 |

## 2 @ 8 x 7 REINFORCED CONCRETE SLAB BRIDGE

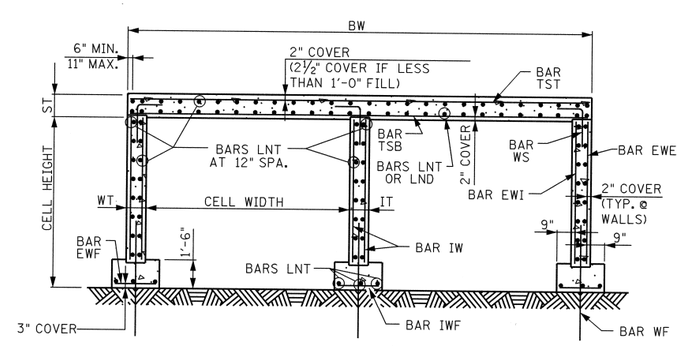
| | Fill Height ft. | Dimensions ST in. | WT in. | IT in. | BW ft. | Bars TST Size | No. | Spacing in. | Length ft. | Bars TSB Size | No. | Spacing in. | Length ft. | Bars EWE Size | No. | Spacing in. | Length ft. | Bars EWI Size | No. | Spacing in. | Length ft. | Bars IW Size | No. | Spacing in. | Length ft. | Bars LNT No. | Bars LND No. | Bars WS No. | Bars WF No. | Bars EWF Length ft. | Bars IWF Length ft. | Concrete CY/LF | Reinf. Steel LB/LF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Continuous | No Fill | 9.5 | 8 | 8 | 18.00 | 6 | 2 | 6 | 17.50 | 6 | 2 | 6 | 17.50 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 57 | 16 | 3 | 3 | 1.67 | 1.67 | 1.30 | 278 |
| | 3 | 11 | 8 | 8 | 18.00 | 7 | 2 | 6 | 17.50 | 6 | 2 | 6 | 17.50 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 57 | 16 | 3 | 3 | 1.67 | 1.67 | 1.38 | 296 |
| | 5 | 11 | 8 | 8 | 18.00 | 5 | 2 | 6 | 17.50 | 5 | 2 | 6 | 17.50 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 75 | 0 | 3 | 3 | 1.67 | 1.67 | 1.38 | 241 |
| | 10 | 11 | 8 | 8 | 18.00 | 7 | 2 | 6 | 17.50 | 5 | 2 | 6 | 17.50 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 75 | 0 | 3 | 3 | 1.67 | 1.67 | 1.38 | 276 |
| Moment Break | 20 | 10 | 8 | 8 | 18.00 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.50 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 75 | 0 | 3 | 3 | 1.67 | 1.67 | 1.32 | 251 |
| | 30 | 14 | 8 | 8 | 18.00 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.50 | 4 | 2 | 12 | 5.50 | 6 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 75 | 0 | 3 | 3 | 1.67 | 1.67 | 1.55 | 256 |
| | 40 | 18 | 9 | 8 | 18.17 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.67 | 4 | 2 | 12 | 5.50 | 6 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 75 | 0 | 3 | 3 | 1.75 | 1.67 | 1.82 | 261 |
| | 50 | 21 | 10 | 8 | 18.33 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.83 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 75 | 0 | 3 | 3 | 1.83 | 1.67 | 2.04 | 257 |
| | 60 | 24 | 11 | 8 | 18.50 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 18.00 | 4 | 2 | 12 | 5.50 | 5 | 2 | 12 | 5.50 | 4 | 4 | 6 | 5.50 | 75 | 0 | 3 | 3 | 1.92 | 1.67 | 2.27 | 261 |

## 2 @ 8 x 8 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. | Bars EWI Size | No. | Spacing in. | Length ft. | Bars IW Size | No. | Spacing in. | Length ft. | Bars LNT No. | Bars LND No. | Bars WS No. | Bars WF No. | Bars EWF Length ft. | Bars IWF Length ft. | Concrete CY/LF | Reinf. Steel LB/LF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Continuous | No Fill | 9.5 | 8 | 8 | 18.00 | 6 | 2 | 6 | 17.50 | 6 | 2 | 6 | 17.50 | 4 | 2 | 12 | 6.50 | 5 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 63 | 16 | 3 | 3 | 1.67 | 1.67 | 1.37 | 286 |
| | 3 | 11 | 8 | 8 | 18.00 | 7 | 2 | 6 | 17.50 | 6 | 2 | 6 | 17.50 | 4 | 2 | 12 | 6.50 | 5 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 63 | 16 | 3 | 3 | 1.67 | 1.67 | 1.45 | 305 |
| | 5 | 11 | 8 | 8 | 18.00 | 5 | 2 | 6 | 17.50 | 5 | 2 | 6 | 17.50 | 4 | 2 | 12 | 6.50 | 5 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 81 | 0 | 3 | 3 | 1.67 | 1.67 | 1.45 | 249 |
| | 10 | 11 | 8 | 8 | 18.00 | 7 | 2 | 6 | 17.50 | 5 | 2 | 6 | 17.50 | 4 | 2 | 12 | 6.50 | 5 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 81 | 0 | 3 | 3 | 1.67 | 1.67 | 1.45 | 285 |
| Moment Break | 20 | 10 | 8 | 8 | 18.00 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.50 | 4 | 2 | 12 | 6.50 | 5 | 4 | 6 | 6.50 | 4 | 2 | 12 | 6.50 | 81 | 0 | 3 | 3 | 1.67 | 1.67 | 1.40 | 273 |
| | 30 | 14 | 9 | 8 | 18.17 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.67 | 4 | 2 | 12 | 6.50 | 5 | 4 | 6 | 6.50 | 4 | 2 | 12 | 6.50 | 81 | 0 | 3 | 3 | 1.75 | 1.67 | 1.68 | 274 |
| | 40 | 18 | 10 | 8 | 18.33 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 17.83 | 4 | 2 | 12 | 6.50 | 5 | 4 | 6 | 6.50 | 5 | 2 | 12 | 6.50 | 81 | 0 | 3 | 3 | 1.83 | 1.67 | 1.96 | 280 |
| | 50 | 21 | 11 | 8 | 18.50 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 18.00 | 4 | 2 | 12 | 6.50 | 5 | 4 | 6 | 6.50 | 5 | 2 | 12 | 6.50 | 81 | 0 | 3 | 3 | 1.92 | 1.67 | 2.19 | 280 |
| | 60 | 24 | 13 | 8 | 18.83 | 4 | 2 | 12 | 8.66 | 7 | 2 | 6 | 18.33 | 4 | 2 | 12 | 6.50 | 6 | 2 | 12 | 6.50 | 4 | 4 | 6 | 6.50 | 81 | 0 | 3 | 3 | 2.08 | 1.67 | 2.48 | 278 |

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 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 = 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. = 1 Spacing = 12 in.
Bars EWF Size = 4 No. = 2 Spacing = 12 in.




TYPICAL SECTION

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: 2 BARRELS AT 8'-0"
CLEAR HEIGHTS 6'-0" THRU 8'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

| | | | |
|---|---|---|---|
| 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 |