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

REVISIONS

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

## 3 @ 8 x 3 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 | 10.5 | 8 | 8 | 26.67 | 6 | 2 | 6 | 26.17 | 6 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 4 | 12 | 1.50 | 46 | 48 | 4 | 4 | 1.67 | 1.67 | 1.34 | 369 |
| Continuous | 3 | 12 | 8 | 8 | 26.67 | 9 | 1 | 12 | 26.17 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 4 | 12 | 1.50 | 46 | 48 | 4 | 4 | 1.67 | 1.67 | 1.46 | 408 |
| Continuous | 5 | 11 | 8 | 8 | 26.67 | 7 | 1 | 12 | 26.17 | 5 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 4 | 12 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 1.38 | 287 |
| Continuous | 10 | 11 | 8 | 8 | 26.67 | 5 | 2 | 6 | 26.17 | 5 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 4 | 12 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 1.38 | 288 |
| Moment Break | 20 | 10 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 4 | 12 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 1.30 | 303 |
| Moment Break | 30 | 14 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 4 | 12 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 1.62 | 303 |
| Moment Break | 40 | 18 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 5 | 4 | 12 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 1.95 | 306 |
| Moment Break | 50 | 21 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 5 | 4 | 12 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 2.20 | 306 |
| Moment Break | 60 | 24 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 1.50 | 5 | 2 | 12 | 1.50 | 4 | 8 | 6 | 1.50 | 72 | 0 | 4 | 4 | 1.67 | 1.67 | 2.45 | 308 |

## 3 @ 8 x 4 REINFORCED CONCRETE SLAB BRIDGE

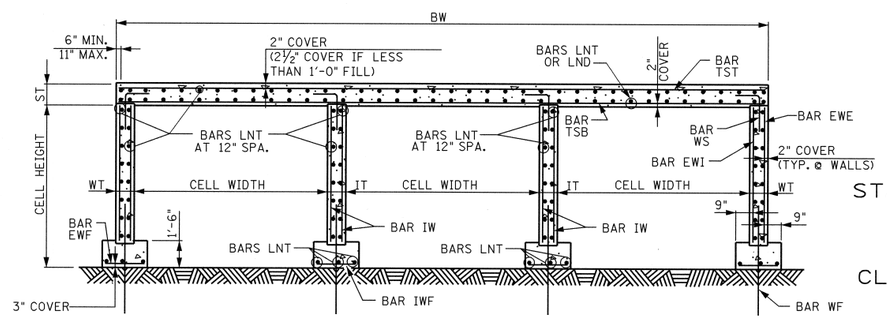
| | Fill Height ft. | Dimensions ST in. | WT in. | IT in. | BW ft. | Bars TST Size | No. | Spacing in. | Length ft. | Bars TSB Size | No. | Spacing in. | Length ft. | Bars EWE Size | No. | Spacing in. | Length ft. | Bars EWI Size | No. | Spacing in. | Length ft. | Bars IW Size | No. | Spacing in. | Length 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 | 10.5 | 8 | 8 | 26.67 | 6 | 2 | 6 | 26.17 | 6 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 4 | 12 | 2.50 | 54 | 48 | 4 | 4 | 1.67 | 1.67 | 1.41 | 381 |
| Continuous | 3 | 12 | 8 | 8 | 26.67 | 9 | 1 | 12 | 26.17 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 4 | 12 | 2.50 | 54 | 48 | 4 | 4 | 1.67 | 1.67 | 1.53 | 419 |
| Continuous | 5 | 11 | 8 | 8 | 26.67 | 7 | 1 | 12 | 26.17 | 5 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 4 | 12 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 1.45 | 299 |
| Continuous | 10 | 11 | 8 | 8 | 26.67 | 5 | 2 | 6 | 26.17 | 5 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 4 | 12 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 1.45 | 300 |
| Moment Break | 20 | 10 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 4 | 12 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 1.37 | 315 |
| Moment Break | 30 | 14 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 4 | 12 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 1.70 | 315 |
| Moment Break | 40 | 18 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 5 | 4 | 12 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 2.03 | 319 |
| Moment Break | 50 | 21 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 5 | 4 | 12 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 2.27 | 319 |
| Moment Break | 60 | 24 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 2.50 | 5 | 2 | 12 | 2.50 | 4 | 8 | 6 | 2.50 | 80 | 0 | 4 | 4 | 1.67 | 1.67 | 2.52 | 322 |

## 3 @ 8 x 5 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 | 10.5 | 8 | 8 | 26.67 | 6 | 2 | 6 | 26.17 | 6 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 4 | 12 | 3.50 | 62 | 48 | 4 | 4 | 1.67 | 1.67 | 1.48 | 392 |
| Continuous | 3 | 12 | 8 | 8 | 26.67 | 9 | 1 | 12 | 26.17 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 4 | 12 | 3.50 | 62 | 48 | 4 | 4 | 1.67 | 1.67 | 1.61 | 431 |
| Continuous | 5 | 11 | 8 | 8 | 26.67 | 7 | 1 | 12 | 26.17 | 5 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 4 | 12 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 1.53 | 310 |
| Continuous | 10 | 11 | 8 | 8 | 26.67 | 5 | 2 | 6 | 26.17 | 5 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 4 | 12 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 1.53 | 311 |
| Moment Break | 20 | 10 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 4 | 12 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 1.44 | 326 |
| Moment Break | 30 | 14 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 4 | 12 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 1.77 | 326 |
| Moment Break | 40 | 18 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 5 | 4 | 12 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 2.10 | 332 |
| Moment Break | 50 | 21 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 5 | 4 | 12 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 2.35 | 332 |
| Moment Break | 60 | 24 | 8 | 8 | 26.67 | 4 | 3 | 12 | 8.66 | 7 | 2 | 6 | 26.17 | 4 | 2 | 12 | 3.50 | 5 | 2 | 12 | 3.50 | 4 | 8 | 6 | 3.50 | 88 | 0 | 4 | 4 | 1.67 | 1.67 | 2.60 | 336 |

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 = 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 IWF Size = 4 No. = 2 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: 3 BARRELS AT 8'-0"
CLEAR HEIGHTS 3'-0" THRU 5'-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 |



DGN_CFG(03)&FORMS\Tables\1-8-10\Official Culvert Files 1-8-10\8' Span\STD-17-152&153_3barrel_slab8'.dgn
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