CONST. NO. _____

| PROJECT NO. | YEAR | SHEET NO. |
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REVISIONS

| NO. | DATE | BY | BRIEF DESCRIPTION |
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## 1 @ 18 x 6 REINFORCED CONCRETE SLAB BRIDGE

| Fill Height ft. | Dimensions | | | Bars TST | | | | Bars TSB | | | | Bars EWE | | | | Bar EWI | | | | Bars LNT | Bars LND | Bars WS | Bars WF | Bars EWF | Concrete | Reinf. Steel |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST in. | WT in. | BW ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | No. | No. | No. | No. | Length ft. | CY/LF | LB/LF |
| No Fill | 11.5 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 8 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 41 | 36 | 2 | 2 | 1.66 | 1.14 | 237 |
| 3 | 13 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 11 | 1 | 12 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 41 | 36 | 2 | 2 | 1.66 | 1.23 | 236 |
| 5 | 13 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 9 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.66 | 1.23 | 253 |
| 10 | 14 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 9 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.66 | 1.29 | 253 |
| 20 | 18 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 11 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.66 | 1.53 | 325 |
| 30 | 28 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 10 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.66 | 2.13 | 287 |
| 40 | 35 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 10 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.66 | 2.55 | 287 |
| 50 | 40 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 10 | 2 | 6 | 18.83 | 4 | 2 | 12 | 4.50 | 7 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.66 | 2.84 | 300 |
| 60 | 45 | 9 | 19.50 | 4 | 1 | 12 | 19.00 | 10 | 2 | 6 | 19.00 | 4 | 2 | 12 | 4.50 | 4 | 2 | 12 | 4.50 | 60 | 0 | 2 | 2 | 1.75 | 3.20 | 289 |

## 1 @ 18 x 7 REINFORCED CONCRETE SLAB BRIDGE

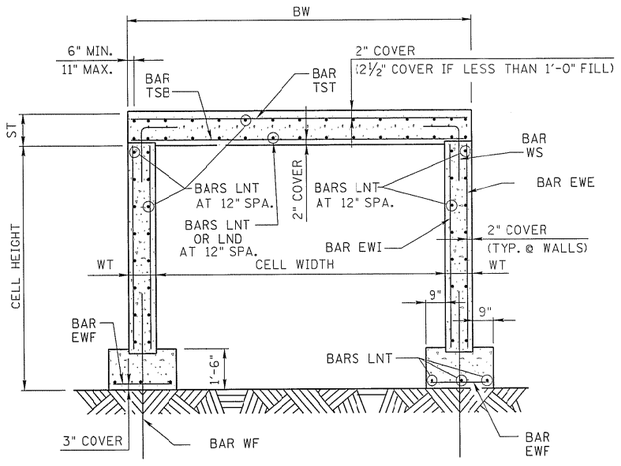
| Fill Height ft. | Dimensions | | | Bars TST | | | | Bars TSB | | | | Bars EWE | | | | Bar EWI | | | | Bars LNT | Bars LND | Bars WS | Bars WF | Bars EWF | Concrete | Reinf. Steel |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST in. | WT in. | BW ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | No. | No. | No. | No. | Length ft. | CY/LF | LB/LF |
| No Fill | 11.5 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 8 | 2 | 6 | 18.83 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 45 | 36 | 2 | 2 | 1.66 | 1.19 | 242 |
| 3 | 13 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 11 | 1 | 12 | 18.83 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 45 | 36 | 2 | 2 | 1.66 | 1.28 | 242 |
| 5 | 13 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 9 | 2 | 6 | 18.83 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 64 | 0 | 2 | 2 | 1.66 | 1.28 | 259 |
| 10 | 14 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 9 | 2 | 6 | 18.83 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 64 | 0 | 2 | 2 | 1.66 | 1.34 | 259 |
| 20 | 18 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 11 | 2 | 6 | 18.83 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 64 | 0 | 2 | 2 | 1.66 | 1.58 | 331 |
| 30 | 28 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 10 | 2 | 6 | 18.83 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 64 | 0 | 2 | 2 | 1.66 | 2.18 | 293 |
| 40 | 35 | 9 | 19.50 | 4 | 1 | 12 | 19.00 | 10 | 2 | 6 | 19.00 | 4 | 2 | 12 | 5.50 | 4 | 2 | 12 | 5.50 | 64 | 0 | 2 | 2 | 1.75 | 2.66 | 295 |
| 50 | 40 | 9 | 19.50 | 4 | 1 | 12 | 19.00 | 10 | 2 | 6 | 19.00 | 4 | 2 | 12 | 5.50 | 7 | 2 | 12 | 5.50 | 64 | 0 | 2 | 2 | 1.75 | 2.96 | 310 |
| 60 | 45 | 10 | 19.67 | 4 | 1 | 12 | 19.16 | 10 | 2 | 6 | 19.16 | 4 | 2 | 12 | 5.50 | 4 | 4 | 6 | 5.50 | 64 | 0 | 2 | 2 | 1.83 | 3.33 | 303 |

## 1 @ 18 x 8 REINFORCED CONCRETE SLAB BRIDGE

| Fill Height ft. | Dimensions | | | Bars TST | | | | Bars TSB | | | | Bars EWE | | | | Bar EWI | | | | Bars LNT | Bars LND | Bars WS | Bars WF | Bars EWF | Concrete | Reinf. Steel |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST in. | WT in. | BW ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | Size | No. | Spacing in. | Length ft. | No. | No. | No. | No. | Length ft. | CY/LF | LB/LF |
| No Fill | 11.5 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 8 | 2 | 6 | 18.83 | 4 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 49 | 36 | 2 | 2 | 1.66 | 1.24 | 248 |
| 3 | 13 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 11 | 1 | 12 | 18.83 | 4 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 49 | 36 | 2 | 2 | 1.66 | 1.33 | 247 |
| 5 | 13 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 9 | 2 | 6 | 18.83 | 4 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 68 | 0 | 2 | 2 | 1.66 | 1.33 | 263 |
| 10 | 14 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 9 | 2 | 6 | 18.83 | 4 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 68 | 0 | 2 | 2 | 1.66 | 1.39 | 263 |
| 20 | 18 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 11 | 2 | 6 | 18.83 | 4 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 68 | 0 | 2 | 2 | 1.66 | 1.63 | 336 |
| 30 | 28 | 8 | 19.33 | 4 | 1 | 12 | 18.83 | 10 | 2 | 6 | 18.83 | 4 | 2 | 12 | 6.50 | 6 | 4 | 6 | 6.50 | 68 | 0 | 2 | 2 | 1.66 | 2.23 | 328 |
| 40 | 35 | 10 | 19.67 | 4 | 1 | 12 | 19.16 | 10 | 2 | 6 | 19.16 | 4 | 2 | 12 | 6.50 | 4 | 2 | 12 | 6.50 | 68 | 0 | 2 | 2 | 1.83 | 2.78 | 301 |
| 50 | 40 | 10 | 19.67 | 4 | 1 | 12 | 19.16 | 10 | 2 | 6 | 19.16 | 4 | 2 | 12 | 6.50 | 8 | 2 | 12 | 6.50 | 68 | 0 | 2 | 2 | 1.83 | 3.08 | 327 |
| 60 | 45 | 11 | 19.83 | 4 | 1 | 12 | 19.33 | 10 | 2 | 6 | 19.33 | 4 | 2 | 12 | 6.50 | 8 | 2 | 12 | 6.50 | 68 | 0 | 2 | 2 | 1.91 | 3.46 | 328 |

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 = 4 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.




TYPICAL SECTION

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: 1 BARREL AT 18'-0" CLEAR HEIGHTS 6'-0" THRU 8'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-107

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

DGN: rd0020.dgn 18\barrel_slab1
date: 06/06/2000