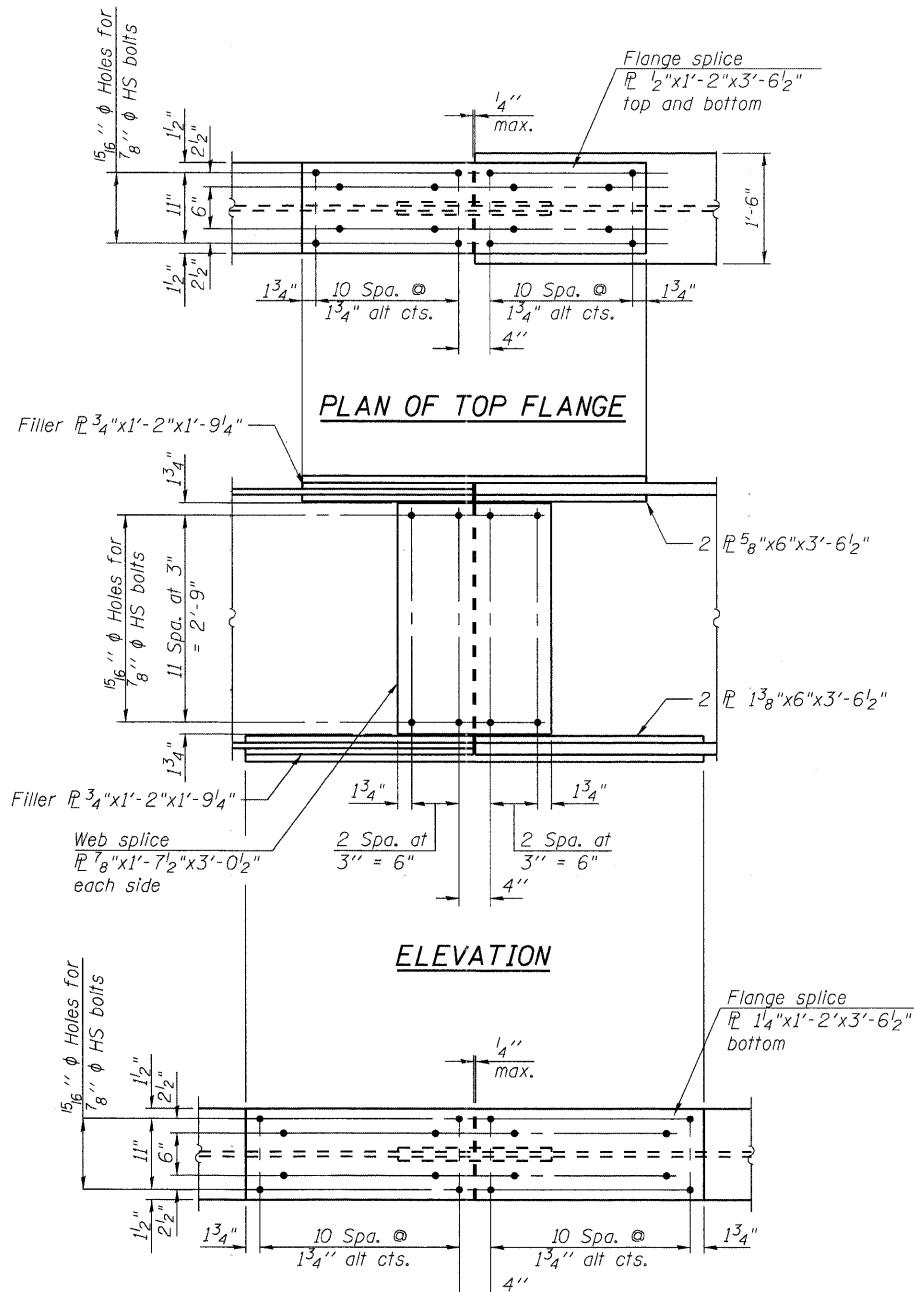


**SPLICE DETAIL #1 & #4**  
 (16 Required)



**SPLICE DETAIL #2 & #3**  
 (16 Required)

**INTERIOR GIRDER MOMENT TABLE**

|                           |                    | 0.4 Sp. 2 | Pier 2 | 0.6 Sp. 1 |
|---------------------------|--------------------|-----------|--------|-----------|
| $I_s$                     | (in <sup>4</sup> ) | 16032     | 33250  | 16032     |
| $I_c(n)$                  | (in <sup>4</sup> ) | 37357     |        | 37357     |
| $I_c(3n)$                 | (in <sup>4</sup> ) | 28185     |        | 28185     |
| $I_c(cr)$                 | (in <sup>4</sup> ) |           | 38870  |           |
| $S_s$                     | (in <sup>3</sup> ) | 729       | 1462   | 729       |
| $S_c(n)$                  | (in <sup>3</sup> ) | 973       |        | 973       |
| $S_c(3n)$                 | (in <sup>3</sup> ) | 897       |        | 897       |
| $S_c(cr)$                 | (in <sup>3</sup> ) |           | 1542   |           |
| DC1                       | (k/')              | 1.00      | 1.00   | 1.00      |
| MDC1                      | (k)                | 591       | -1462  | 533       |
| DC2                       | (k/')              | 0.24      | 0.24   | 0.24      |
| MDC2                      | (k)                | 152       | -335   | 137       |
| DW                        | (k/')              | 0.31      | 0.31   | 0.31      |
| MDW                       | (k)                | 190       | -427   | 173       |
| $M_k + IM$                | (k)                | 1312      | -1655  | 1276      |
| $M_u$ (Strength I)        | (k)                | 3510      | -5783  | 3330      |
| $\phi_r M_n$              | (k)                | 4981      | 6372   | 5132      |
| $f_s$ DC1                 | (ksi)              | 9.73      | -12.00 | 8.78      |
| $f_s$ DC2                 | (ksi)              | 2.03      | -2.61  | 1.84      |
| $f_s$ DW                  | (ksi)              | 2.55      | -3.32  | 2.31      |
| $f_s$ 1.3 ( $k + IM$ )    | (ksi)              | 22.82     | -16.74 | 22.19     |
| $f_s$ (Service II)        | (ksi)              | 37.13     | -34.67 | 35.12     |
| $0.95R_h F_y$             | (ksi)              | 47.50     | 47.50  | 47.50     |
| $f_s$ (Total)(Strength I) | (ksi)              | 49.24     | -45.78 | 46.61     |
| $\phi_r F_n$              | (ksi)              | 50        | 50     | 50        |
| $V_r$                     | (k)                | 24.6      | 39.8   | 26.3      |

**TOP OF WEB ELEVATIONS**

|          | ℄ Bearing S Abut. | ℄ Splice 4 | ℄ Splice 3 | ℄ Bearing Pier 2 | ℄ Splice 2 | ℄ Splice 1 | ℄ Bearing N Abut. |
|----------|-------------------|------------|------------|------------------|------------|------------|-------------------|
| Girder 1 | 655.29            | 655.73     | 656.27     | 656.41           | 656.55     | 656.60     | 656.45            |
| Girder 2 | 655.39            | 655.83     | 656.39     | 656.54           | 656.69     | 656.76     | 656.62            |
| Girder 3 | 655.49            | 655.94     | 656.52     | 656.68           | 656.84     | 656.93     | 656.80            |
| Girder 4 | 655.56            | 656.01     | 656.61     | 656.78           | 656.95     | 657.06     | 656.94            |
| Girder 5 | 655.50            | 655.97     | 656.58     | 656.76           | 656.94     | 657.07     | 656.95            |
| Girder 6 | 655.33            | 655.80     | 656.44     | 656.63           | 656.81     | 656.96     | 656.85            |
| Girder 7 | 655.11            | 655.60     | 656.25     | 656.45           | 656.65     | 656.81     | 656.71            |
| Girder 8 | 654.90            | 655.40     | 656.07     | 656.28           | 656.49     | 656.67     | 656.57            |

Note: For fabrication only.

**INTERIOR GIRDER REACTION TABLE**

|             |     | S. Abut. | Pier 2 | N. Abut. |
|-------------|-----|----------|--------|----------|
| $R_{DC1}$   | (k) | 36.8     | 135.3  | 35.1     |
| $R_{DC2}$   | (k) | 8.6      | 30.5   | 8.2      |
| $R_{DW}$    | (k) | 10.9     | 38.9   | 10.4     |
| $R_k + IM$  | (k) | 102.9    | 218.7  | 101.8    |
| $R_{Total}$ | (k) | 159.2    | 423.4  | 155.5    |

Notes:  
 All splice plates are AASHTO M270  
 Grade 50 galvanized and shall meet N.T.R.

**ABNA**  
 DESIGN FIRM REG. 184.002117  
 9901 S. Western Ave.  
 Chicago, IL 60643  
 Ph. 773-881-4788  
 F: 773.239.3728

|                   |           |
|-------------------|-----------|
| DESIGNED - SEA    | REVISED - |
| CHECKED - RJL     | REVISED - |
| DRAWN - JJE / SCS | REVISED - |
| CHECKED - SEA     | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIELD SPLICE AND STRESS TABLES**  
**STRUCTURE NO. 016-1101**  
 SHEET NO. 17 OF 36 SHEETS

|                     |                           |        |              |           |
|---------------------|---------------------------|--------|--------------|-----------|
| F.A.U. RTE.         | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90                  | 1515.1-B                  | COOK   | 101          | 60        |
| STA. TO STA.        | CONTRACT NO. 60M79        |        |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |        |              |           |