

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                             |                 |                            |                    |                 |                          |
|-----------------------------|-----------------|----------------------------|--------------------|-----------------|--------------------------|
| ROUTE NO.<br>F.A.U.<br>9181 | SECTION<br>52BR | COUNTY<br>ST. CLAIR        | TOTAL SHEETS<br>41 | SHEET NO.<br>22 | SHEET NO. 6<br>25 SHEETS |
| FED. ROAD DIST. NO. 7       |                 | ILLINOIS FED. AID PROJECT- |                    |                 |                          |

Contract #76120

**BEAM 6**

| Location        | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|---------|--------|------------------------------|--|
| Bk. of W. Abut. | 3936.05 | 1.00   | 420.76                       | 420.76   |
| ⊙ Brg. W. Abut. | 3937.80 | 1.00   | 420.77                       | 420.77   |
| C               | 3947.80 | 1.00   | 420.83                       | 420.83   |
| D               | 3957.80 | 1.00   | 420.88                       | 420.88   |
| ⊙ Brg. Pier 1   | 3967.80 | 1.00   | 420.92                       | 420.92   |
| E               | 3977.80 | 1.00   | 420.95                       | 420.96   |
| F               | 3987.80 | 1.00   | 420.97                       | 420.98   |
| G               | 3997.80 | 1.00   | 420.98                       | 420.99   |
| ⊙ Brg. Pier 2   | 4011.80 | 1.00   | 420.98                       | 420.98   |
| H               | 4021.80 | 1.00   | 420.97                       | 420.97   |
| I               | 4031.80 | 1.00   | 420.95                       | 420.95   |
| ⊙ Brg. E. Abut. | 4041.80 | 1.00   | 420.92                       | 420.92   |
| Bk. of E. Abut. | 4043.55 | 1.00   | 420.92                       | 420.92   |

**BEAM 7**

| Location        | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|---------|--------|------------------------------|--|
| Bk. of W. Abut. | 3936.05 | 7.08   | 420.67                       | 420.67   |
| ⊙ Brg. W. Abut. | 3937.80 | 7.08   | 420.68                       | 420.68   |
| C               | 3947.80 | 7.08   | 420.73                       | 420.74   |
| D               | 3957.80 | 7.08   | 420.78                       | 420.78   |
| ⊙ Brg. Pier 1   | 3967.80 | 7.08   | 420.82                       | 420.82   |
| E               | 3977.80 | 7.08   | 420.85                       | 420.86   |
| F               | 3987.80 | 7.08   | 420.87                       | 420.89   |
| G               | 3997.80 | 7.08   | 420.88                       | 420.90   |
| ⊙ Brg. Pier 2   | 4011.80 | 7.08   | 420.89                       | 420.89   |
| H               | 4021.80 | 7.08   | 420.88                       | 420.88   |
| I               | 4031.80 | 7.08   | 420.86                       | 420.86   |
| ⊙ Brg. E. Abut. | 4041.80 | 7.08   | 420.83                       | 420.83   |
| Bk. of E. Abut. | 4043.55 | 7.08   | 420.82                       | 420.82   |

**BEAM 8**

| Location        | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|---------|--------|------------------------------|--|
| Bk. of W. Abut. | 3936.05 | 13.17  | 420.57                       | 420.57   |
| ⊙ Brg. W. Abut. | 3937.80 | 13.17  | 420.58                       | 420.58   |
| C               | 3947.80 | 13.17  | 420.63                       | 420.64   |
| D               | 3957.80 | 13.17  | 420.68                       | 420.68   |
| ⊙ Brg. Pier 1   | 3967.80 | 13.17  | 420.72                       | 420.72   |
| E               | 3977.80 | 13.17  | 420.75                       | 420.76   |
| F               | 3987.80 | 13.17  | 420.77                       | 420.79   |
| G               | 3997.80 | 13.17  | 420.78                       | 420.80   |
| ⊙ Brg. Pier 2   | 4011.80 | 13.17  | 420.78                       | 420.78   |
| H               | 4021.80 | 13.17  | 420.77                       | 420.78   |
| I               | 4031.80 | 13.17  | 420.76                       | 420.76   |
| ⊙ Brg. E. Abut. | 4041.80 | 13.17  | 420.73                       | 420.73   |
| Bk. of E. Abut. | 4043.55 | 13.17  | 420.72                       | 420.72   |

**BEAM 9**

| Location        | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|---------|--------|------------------------------|--|
| Bk. of W. Abut. | 3936.05 | 19.25  | 420.44                       | 420.44   |
| ⊙ Brg. W. Abut. | 3937.80 | 19.25  | 420.45                       | 420.45   |
| C               | 3947.80 | 19.25  | 420.51                       | 420.51   |
| D               | 3957.80 | 19.25  | 420.56                       | 420.56   |
| ⊙ Brg. Pier 1   | 3967.80 | 19.25  | 420.59                       | 420.59   |
| E               | 3977.80 | 19.25  | 420.62                       | 420.63   |
| F               | 3987.80 | 19.25  | 420.65                       | 420.66   |
| G               | 3997.80 | 19.25  | 420.66                       | 420.67   |
| ⊙ Brg. Pier 2   | 4011.80 | 19.25  | 420.66                       | 420.66   |
| H               | 4021.80 | 19.25  | 420.65                       | 420.65   |
| I               | 4031.80 | 19.25  | 420.63                       | 420.63   |
| ⊙ Brg. E. Abut. | 4041.80 | 19.25  | 420.60                       | 420.60   |
| Bk. of E. Abut. | 4043.55 | 19.25  | 420.59                       | 420.59   |

**BEAM 10**

| Location        | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|---------|--------|------------------------------|--|
| Bk. of W. Abut. | 3936.05 | 25.33  | 420.31                       | 420.31   |
| ⊙ Brg. W. Abut. | 3937.80 | 25.33  | 420.32                       | 420.32   |
| C               | 3947.80 | 25.33  | 420.38                       | 420.38   |
| D               | 3957.80 | 25.33  | 420.43                       | 420.43   |
| ⊙ Brg. Pier 1   | 3967.80 | 25.33  | 420.47                       | 420.47   |
| E               | 3977.80 | 25.33  | 420.50                       | 420.51   |
| F               | 3987.80 | 25.33  | 420.52                       | 420.54   |
| G               | 3997.80 | 25.33  | 420.53                       | 420.54   |
| ⊙ Brg. Pier 2   | 4011.80 | 25.33  | 420.53                       | 420.53   |
| H               | 4021.80 | 25.33  | 420.52                       | 420.52   |
| I               | 4031.80 | 25.33  | 420.50                       | 420.51   |
| ⊙ Brg. E. Abut. | 4041.80 | 25.33  | 420.47                       | 420.47   |
| Bk. of E. Abut. | 4043.55 | 25.33  | 420.47                       | 420.47   |

|          |               |
|----------|---------------|
| DESIGNED | W.A.B.        |
| CHECKED  | D.F.Z.        |
| DRAWN    | PAUL W. SWEET |
| CHECKED  | DFZ/SMR/DPN   |

November 23, 2009  
 EXAMINED *Thomas J. Demagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF SLAB ELEVATIONS**  
**F.A.U. RTE. 9181 - SECTION 52BR**  
**ST. CLAIR COUNTY**  
**STATION 39+89.80**  
**STRUCTURE NO. 082-0136**