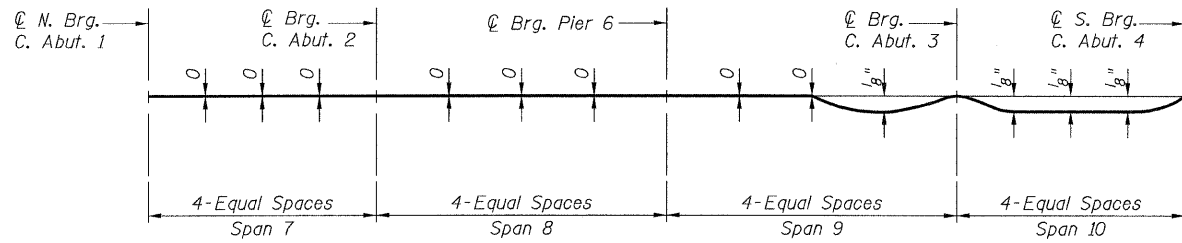


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| GIRDER G4     |          |        |                              |   | GIRDER G5     |          |        |                              |   | GIRDER G6     |          |        |                              |   | GIRDER G7     |          |        |                              |   |
|---------------|----------|--------|------------------------------|---|---------------|----------|--------|------------------------------|---|---------------|----------|--------|------------------------------|---|---------------|----------|--------|------------------------------|---|
| LOCATION      | STATION  | OFFSET | THEORETICAL GRADE ELEVATIONS | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS | LOCATION      | STATION  | OFFSET | THEORETICAL GRADE ELEVATIONS | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS | LOCATION      | STATION  | OFFSET | THEORETICAL GRADE ELEVATIONS | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS | LOCATION      | STATION  | OFFSET | THEORETICAL GRADE ELEVATIONS | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS |
| ☉ C. Abut. 1  | 18+43.54 | 50.63  | 627.07                       | 627.07  | ☉ C. Abut. 1  | 18+40.86 | 43.88  | 627.16                       | 627.16  | ☉ C. Abut. 1  | 18+38.18 | 37.13  | 627.24                       | 627.24  | ☉ C. Abut. 1  | 18+35.49 | 30.38  | 627.32                       | 627.32  |
| ☉ N. Brg.     | 18+45.16 | 50.63  | 627.10                       | 627.10  | ☉ N. Brg.     | 18+42.47 | 43.88  | 627.19                       | 627.19  | ☉ N. Brg.     | 18+39.79 | 37.13  | 627.27                       | 627.27  | ☉ N. Brg.     | 18+37.11 | 30.38  | 627.35                       | 627.35  |
| C. Abut. 1    |          |        |                              |   | C. Abut. 1    |          |        |                              |   | C. Abut. 1    |          |        |                              |   | C. Abut. 1    |          |        |                              |   |
| A             | 18+55.16 | 50.63  | 627.28                       | 627.31  | A             | 18+52.47 | 43.88  | 627.37                       | 627.39  | A             | 18+49.79 | 37.13  | 627.46                       | 627.48  | A             | 18+47.11 | 30.38  | 627.54                       | 627.57  |
| B             | 18+65.16 | 50.63  | 627.46                       | 627.50  | B             | 18+62.47 | 43.88  | 627.55                       | 627.59  | B             | 18+59.79 | 37.13  | 627.63                       | 627.67  | B             | 18+57.11 | 30.38  | 627.72                       | 627.76  |
| C             | 18+75.16 | 50.63  | 627.62                       | 627.67  | C             | 18+72.47 | 43.88  | 627.71                       | 627.76  | C             | 18+69.79 | 37.13  | 627.80                       | 627.85  | C             | 18+67.11 | 30.38  | 627.89                       | 627.94  |
| D             | 18+85.16 | 50.63  | 627.78                       | 627.82  | D             | 18+82.47 | 43.88  | 627.87                       | 627.92  | D             | 18+79.79 | 37.13  | 627.97                       | 628.01  | D             | 18+77.11 | 30.38  | 628.06                       | 628.10  |
| E             | 18+95.16 | 50.63  | 627.93                       | 627.96  | E             | 18+92.47 | 43.88  | 628.03                       | 628.06  | E             | 18+89.79 | 37.13  | 628.12                       | 628.15  | E             | 18+87.11 | 30.38  | 628.22                       | 628.25  |
| F             | 19+05.16 | 50.63  | 628.07                       | 628.09  | F             | 19+02.47 | 43.88  | 928.17                       | 928.18  | F             | 18+99.79 | 37.13  | 628.27                       | 628.28  | F             | 18+97.11 | 30.38  | 628.36                       | 628.38  |
| ☉ Brg.        | 19+18.59 | 50.63  | 628.25                       | 628.25  | ☉ Brg.        | 19+15.90 | 43.88  | 628.35                       | 628.35  | ☉ Brg.        | 19+13.22 | 37.13  | 628.45                       | 628.45  | ☉ Brg.        | 19+10.54 | 30.38  | 628.55                       | 628.55  |
| C. Abut. 2    |          |        |                              |   | C. Abut. 2    |          |        |                              |   | C. Abut. 2    |          |        |                              |   | C. Abut. 2    |          |        |                              |   |
| G             | 19+28.59 | 50.63  | 628.38                       | 628.38  | G             | 19+25.90 | 43.88  | 628.48                       | 628.49  | G             | 19+23.22 | 37.13  | 628.58                       | 628.59  | G             | 19+20.54 | 30.38  | 628.68                       | 628.69  |
| H             | 19+38.59 | 50.63  | 628.49                       | 628.51  | H             | 19+35.90 | 43.88  | 628.60                       | 628.62  | H             | 19+33.22 | 37.13  | 628.70                       | 628.72  | H             | 19+30.54 | 30.38  | 628.81                       | 628.83  |
| I             | 19+48.59 | 50.63  | 628.60                       | 628.64  | I             | 19+45.90 | 43.88  | 628.71                       | 628.74  | I             | 19+43.22 | 37.13  | 628.81                       | 628.85  | I             | 19+40.54 | 30.38  | 628.92                       | 628.96  |
| J             | 19+58.59 | 50.63  | 628.70                       | 628.75  | J             | 19+55.90 | 43.88  | 628.81                       | 628.85  | J             | 19+53.22 | 37.13  | 628.92                       | 628.96  | J             | 19+50.54 | 30.38  | 629.03                       | 629.07  |
| K             | 19+68.59 | 50.63  | 628.80                       | 628.84  | K             | 19+65.90 | 43.88  | 628.91                       | 628.95  | K             | 19+63.22 | 37.13  | 629.02                       | 629.06  | K             | 19+60.54 | 30.38  | 629.13                       | 629.17  |
| L             | 19+78.59 | 50.63  | 628.88                       | 628.91  | L             | 19+75.90 | 43.88  | 628.99                       | 629.03  | L             | 19+73.22 | 37.13  | 629.11                       | 629.14  | L             | 19+70.54 | 30.38  | 629.22                       | 629.25  |
| M             | 19+88.59 | 50.63  | 628.96                       | 628.98  | M             | 19+85.90 | 43.88  | 629.07                       | 629.09  | M             | 19+83.22 | 37.13  | 629.19                       | 629.21  | M             | 19+80.54 | 30.38  | 629.30                       | 629.32  |
| N             | 19+98.59 | 50.63  | 629.03                       | 629.03  | N             | 19+95.90 | 43.88  | 629.14                       | 629.15  | N             | 19+93.22 | 37.13  | 629.26                       | 629.27  | N             | 19+90.54 | 30.38  | 629.38                       | 629.38  |
| ☉ Brg. Pier 6 | 20+06.54 | 50.63  | 629.08                       | 629.08  | ☉ Brg. Pier 6 | 20+03.86 | 43.88  | 629.20                       | 629.20  | ☉ Brg. Pier 6 | 20+01.18 | 37.13  | 629.31                       | 629.31  | ☉ Brg. Pier 6 | 19+98.49 | 30.38  | 629.43                       | 629.43  |
| O             | 20+16.54 | 50.63  | 629.13                       | 629.14  | O             | 20+13.86 | 43.88  | 629.25                       | 629.26  | O             | 20+11.18 | 37.13  | 629.37                       | 629.37  | O             | 20+08.49 | 30.38  | 629.49                       | 629.50  |
| P             | 20+26.54 | 50.63  | 629.18                       | 629.20  | P             | 20+23.86 | 43.88  | 629.30                       | 629.32  | P             | 20+21.18 | 37.13  | 629.42                       | 629.45  | P             | 20+18.49 | 30.38  | 629.55                       | 629.57  |
| Q             | 20+36.54 | 50.63  | 629.22                       | 629.26  | Q             | 20+33.86 | 43.88  | 629.34                       | 629.38  | Q             | 20+31.18 | 37.13  | 629.47                       | 629.50  | Q             | 20+28.49 | 30.38  | 629.59                       | 629.63  |
| R             | 20+46.54 | 50.63  | 629.26                       | 629.30  | R             | 20+43.86 | 43.88  | 629.38                       | 629.42  | R             | 20+41.18 | 37.13  | 629.51                       | 629.55  | R             | 20+38.49 | 30.38  | 629.63                       | 629.68  |
| S             | 20+56.54 | 50.63  | 629.29                       | 629.34  | S             | 20+53.86 | 43.88  | 629.42                       | 629.46  | S             | 20+51.18 | 37.13  | 629.54                       | 629.59  | S             | 20+48.49 | 30.38  | 629.67                       | 629.71  |
| T             | 20+66.54 | 50.63  | 629.33                       | 629.36  | T             | 20+63.86 | 43.88  | 629.46                       | 629.49  | T             | 20+61.18 | 37.13  | 629.58                       | 629.61  | T             | 20+58.49 | 30.38  | 629.71                       | 629.74  |
| U             | 20+76.54 | 50.63  | 629.37                       | 629.39  | U             | 20+73.86 | 43.88  | 629.49                       | 629.51  | U             | 20+71.18 | 37.13  | 629.62                       | 629.64  | U             | 20+68.49 | 30.38  | 629.74                       | 629.76  |
| V             | 20+86.54 | 50.63  | 629.40                       | 629.41  | V             | 20+83.86 | 43.88  | 629.53                       | 629.53  | V             | 20+81.18 | 37.13  | 629.65                       | 629.66  | V             | 20+78.49 | 30.38  | 629.78                       | 629.78  |
| ☉ Brg.        | 20+94.50 | 50.63  | 629.43                       | 629.43  | ☉ Brg.        | 20+91.82 | 43.88  | 629.56                       | 629.56  | ☉ Brg.        | 20+89.14 | 37.13  | 629.68                       | 629.68  | ☉ Brg.        | 20+86.45 | 30.38  | 629.81                       | 629.81  |
| C. Abut. 3    |          |        |                              |   | C. Abut. 3    |          |        |                              |   | C. Abut. 3    |          |        |                              |   | C. Abut. 3    |          |        |                              |   |
| W             | 21+04.50 | 50.63  | 629.47                       | 629.48  | W             | 21+01.82 | 43.88  | 629.60                       | 629.60  | W             | 20+99.14 | 37.13  | 629.72                       | 629.73  | W             | 20+96.45 | 30.38  | 629.85                       | 629.86  |
| X             | 21+14.50 | 50.63  | 629.51                       | 629.53  | X             | 21+11.82 | 43.88  | 629.63                       | 629.66  | X             | 21+09.14 | 37.13  | 629.76                       | 629.78  | X             | 21+06.45 | 30.38  | 629.88                       | 629.91  |
| Y             | 21+24.50 | 50.63  | 629.54                       | 629.58  | Y             | 21+21.82 | 43.88  | 629.67                       | 629.71  | Y             | 21+19.14 | 37.13  | 629.79                       | 629.83  | Y             | 21+16.45 | 30.38  | 629.92                       | 629.96  |
| Z             | 21+34.50 | 50.63  | 629.58                       | 629.63  | Z             | 21+31.82 | 43.88  | 629.71                       | 629.75  | Z             | 21+29.14 | 37.13  | 629.83                       | 629.88  | Z             | 21+26.45 | 30.38  | 629.96                       | 630.00  |
| A1            | 21+44.50 | 50.63  | 629.62                       | 629.66  | A1            | 21+41.82 | 43.88  | 629.74                       | 629.79  | A1            | 21+39.14 | 37.13  | 629.87                       | 629.91  | A1            | 21+36.45 | 30.38  | 629.99                       | 630.04  |
| B1            | 21+54.50 | 50.63  | 629.65                       | 629.68  | B1            | 21+51.82 | 43.88  | 629.78                       | 629.81  | B1            | 21+49.14 | 37.13  | 629.91                       | 629.94  | B1            | 21+46.45 | 30.38  | 630.03                       | 630.06  |
| ☉ S. Brg.     | 21+67.93 | 50.63  | 629.69                       | 629.69  | ☉ S. Brg.     | 21+65.25 | 43.88  | 629.82                       | 629.82  | ☉ S. Brg.     | 21+62.57 | 37.13  | 629.95                       | 629.95  | ☉ S. Brg.     | 21+58.88 | 30.38  | 630.07                       | 630.07  |
| C. Abut. 4    |          |        |                              |   | C. Abut. 4    |          |        |                              |   | C. Abut. 4    |          |        |                              |   | C. Abut. 4    |          |        |                              |   |
| ☉ C. Abut. 4  | 21+69.55 | 50.63  | 629.70                       | 629.70  | ☉ C. Abut. 4  | 21+66.86 | 43.88  | 629.83                       | 629.83  | ☉ C. Abut. 4  | 21+64.18 | 37.13  | 629.95                       | 629.95  | ☉ C. Abut. 4  | 21+61.50 | 30.38  | 630.08                       | 630.08  |



**DEAD LOAD DEFLECTION DIAGRAM (INTERIOR GIRDER G2)**  
(Includes weight of concrete only)  
(Girder 21 Opposite Hand)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

**TOP OF SLAB ELEV. - 2**  
**CENTRAL / I-55**  
**STRUCTURE NO. 016-0724**

|                            |                 |           |      |   |                    |                            |             |                  |              |
|----------------------------|-----------------|-----------|------|---|--------------------|----------------------------|-------------|------------------|--------------|
| <b>TYLIN INTERNATIONAL</b> | DESIGNED - EKH  | REVISIONS |      | SHEET NO. 16                                    | F.A.I. RTE. 55     | SECTION 0711.2R & 1011.1BR | COUNTY COOK | TOTAL SHEETS 200 | SHEET NO. 46 |
|                            | CHECKED - AMD,  | NAME      | DATE |   |                    |                            |             |                  |              |
|                            | DRAWN - EKH     |           |      |   |                    |                            |             |                  |              |
|                            | CHECKED - AMD,  |           |      |   |                    |                            |             |                  |              |
|                            | DATE - 08/02/10 |           |      |   |                    |                            |             |                  |              |
|                            |                 |           |      | 137 SHEETS                                      | CONTRACT NO. 60L39 |                            |             |                  |              |
|                            |                 |           |      | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                    |                            |             |                  |              |

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8/5/2010