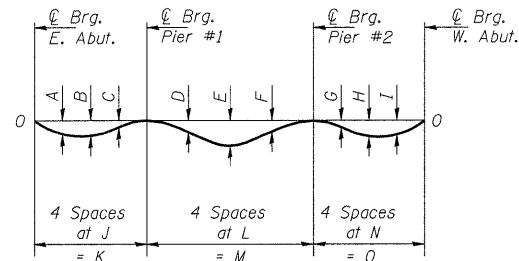
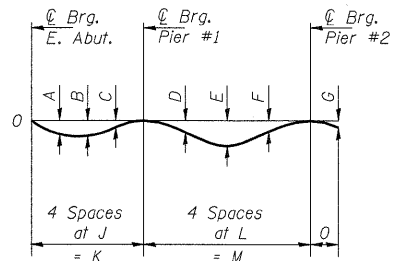


10:58:44 AM  
5/7/2009



**DEAD LOAD DEFLECTION DIAGRAM**

(For Girders 1, 3, & 5-11)  
(Includes weight of concrete slab and parapet)



**DEAD LOAD DEFLECTION DIAGRAM**

(For Girders 2 & 4)  
(Includes weight of concrete slab and parapet)

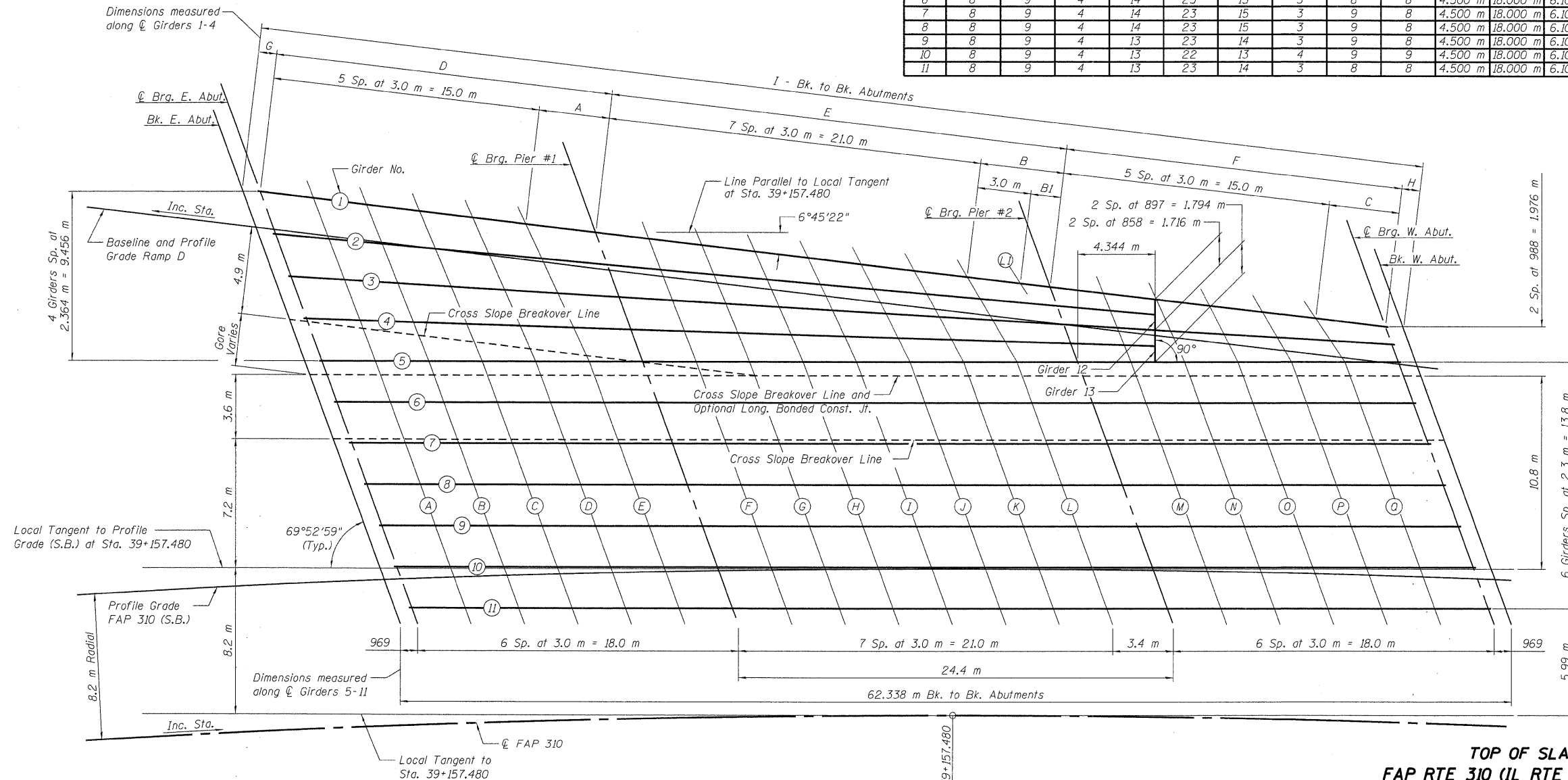
Notes:  
The dead load deflection diagrams are not to be used in the field if the engineer is working from the Theoretical Grade Elevations Adjusted for Dead Load Deflections as shown on sheets #7 thru #10 of 45.  
All offsets are in meters.  
Offsets are measured perpendicular from  $\bar{C}$  FAP 310 or from  $\bar{B}$  Ramp D.  
Offsets to the left are negative. Offsets to the right are positive.  
See Sheets #7 thru #10 of 45 for Elevations.  
See Sheet #7 of 45 for Fillet Height Detail.

|                       |          |                   |              |           |             |
|-----------------------|----------|-------------------|--------------|-----------|-------------|
| ROUTE NO.             | SECTION  | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 6 |
| S. B. I.              | *        | MADISON           | 149          | 73        | 45 SHEETS   |
| F. A. P. 310          |          |                   |              |           |             |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- |              |           |             |

Contract #76634  
\* 60-15VB-1 & 2

**DEAD LOAD DEFLECTION DIAGRAM - DIMENSIONS**

| Girder | A | B  | C | D  | E  | F  | G | H | I | J        | K        | L        | M        | N        | O        |
|--------|---|----|---|----|----|----|---|---|---|----------|----------|----------|----------|----------|----------|
| 1      | 6 | 10 | 5 | 15 | 25 | 17 | 0 | 3 | 5 | +4.737 m | 18.948 m | +6.421 m | 25.685 m | +4.737 m | 18.948 m |
| 2      | 9 | 9  | 5 | 12 | 22 | 14 | 0 |   |   | +4.672 m | 18.689 m | +6.333 m | 25.334 m |          | 5.518 m  |
| 3      | 8 | 9  | 5 | 12 | 20 | 13 | 0 | 2 | 4 | +4.610 m | 18.442 m | +6.250 m | 24.999 m | +4.610 m | 18.442 m |
| 4      | 8 | 10 | 4 | 12 | 21 | 13 | 0 |   |   | +4.554 m | 18.214 m | +6.173 m | 24.690 m |          | 4.728 m  |
| 5      | 8 | 8  | 4 | 13 | 22 | 15 | 0 | 3 | 4 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |
| 6      | 8 | 9  | 4 | 14 | 23 | 15 | 3 | 8 | 8 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |
| 7      | 8 | 9  | 4 | 14 | 23 | 15 | 3 | 9 | 8 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |
| 8      | 8 | 9  | 4 | 14 | 23 | 15 | 3 | 9 | 8 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |
| 9      | 8 | 9  | 4 | 13 | 23 | 14 | 3 | 9 | 8 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |
| 10     | 8 | 9  | 4 | 13 | 22 | 13 | 4 | 9 | 9 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |
| 11     | 8 | 9  | 4 | 13 | 23 | 14 | 3 | 8 | 8 | 4.500 m  | 18.000 m | 6.100 m  | 24.400 m | 4.500 m  | 18.000 m |



**PLAN DIMENSIONS**

|          | A       | B       | C       | D        | E        | F        | G       | H       | I        | BI      |
|----------|---------|---------|---------|----------|----------|----------|---------|---------|----------|---------|
| Girder 1 | 3.948 m | 4.685 m | 3.948 m | 18.948 m | 25.685 m | 18.948 m | 1.020 m | 1.020 m | 65.622 m | 1.685 m |
| Girder 2 | 3.689 m | 4.334 m |         | 18.689 m | 25.334 m |          | 1.006 m |         |          |         |
| Girder 3 | 3.442 m | 3.999 m | 3.442 m | 18.442 m | 24.999 m | 18.442 m | 0.993 m | 0.993 m | 63.869 m |         |
| Girder 4 | 3.214 m | 3.690 m |         | 18.214 m | 24.690 m |          | 0.981 m |         |          |         |

**PLAN**

**TOP OF SLAB ELEVATIONS  
FAP RTE 310 (IL RTE 255) SB & RAMP D OVER  
UNION PACIFIC & KANSAS CITY SOUTHERN R.R.  
SECTION 60-15VB-1 & 2  
MADISON COUNTY  
STATION 39+160.297  
STRUCTURE NUMBER 060-0311**

Klingner & Assoc., P.C.

p:\001\Less\0000024\c\Railroad\Br\_r.dgn, SN060-0311, P:\ems\060-0311\TopSlab.dgn