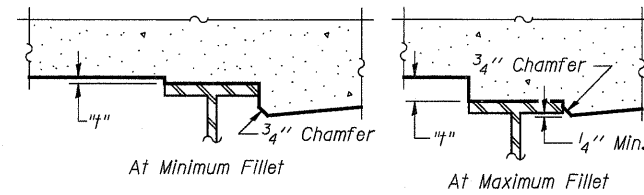


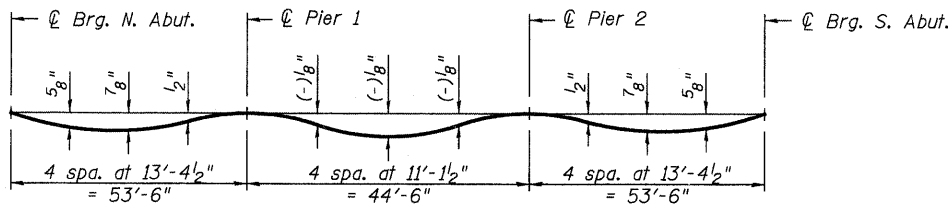
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

NOTE: Expected fillet height "t" varies from 1/2" (at Abuts.) to 1 3/4" (at midspan 1 & 3).



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 below.

BEAM 1

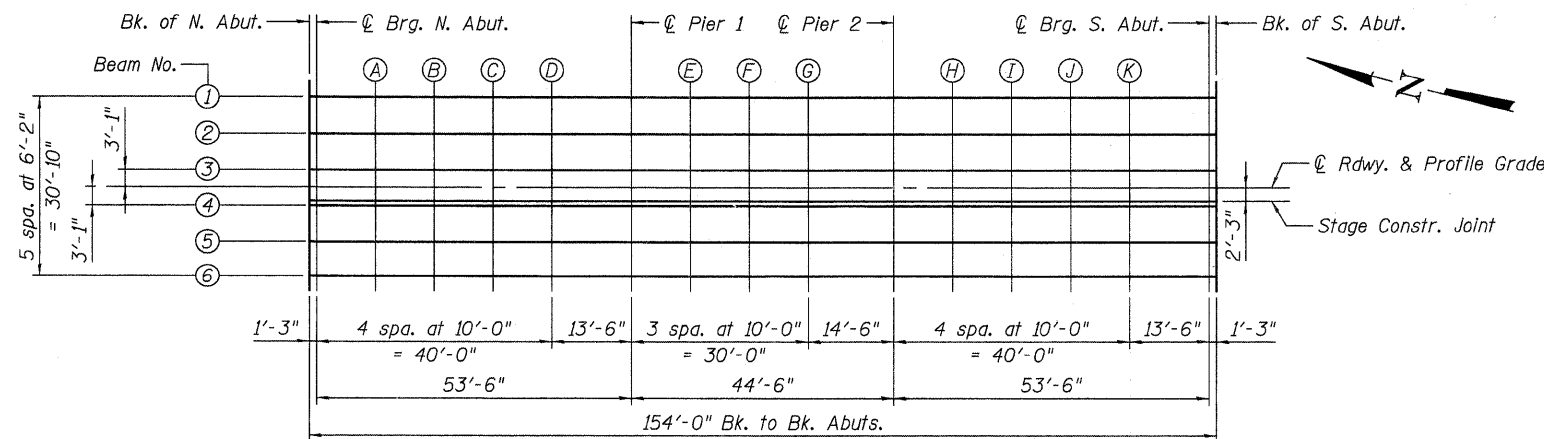
| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. N. Abut. | 84+43.50 | -15.42 | 509.28 | 509.28 |
| ☉ Brg. N. Abut. | 84+44.75 | -15.42 | 509.30 | 509.30 |
| A | 84+54.75 | -15.42 | 509.49 | 509.54 |
| B | 84+64.75 | -15.42 | 509.69 | 509.76 |
| C | 84+74.75 | -15.42 | 509.88 | 509.95 |
| D | 84+84.75 | -15.42 | 510.07 | 510.11 |
| ☉ Pier 1 | 84+98.25 | -15.42 | 510.33 | 510.33 |
| E | 85+08.25 | -15.42 | 510.52 | 510.51 |
| F | 85+18.25 | -15.42 | 510.71 | 510.70 |
| G | 85+28.25 | -15.42 | 510.90 | 510.89 |
| ☉ Pier 2 | 85+42.75 | -15.42 | 511.18 | 511.18 |
| H | 85+52.75 | -15.42 | 511.37 | 511.40 |
| I | 85+62.75 | -15.42 | 511.56 | 511.63 |
| J | 85+72.75 | -15.42 | 511.75 | 511.83 |
| K | 85+82.75 | -15.42 | 511.95 | 512.00 |
| ☉ Brg. S. Abut. | 85+96.25 | -15.42 | 512.20 | 512.20 |
| Bk. S. Abut. | 85+97.50 | -15.42 | 512.23 | 512.23 |

BEAM 2

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. N. Abut. | 84+43.50 | -9.25 | 509.39 | 509.39 |
| ☉ Brg. N. Abut. | 84+44.75 | -9.25 | 509.41 | 509.41 |
| A | 84+54.75 | -9.25 | 509.60 | 509.65 |
| B | 84+64.75 | -9.25 | 509.79 | 509.87 |
| C | 84+74.75 | -9.25 | 509.99 | 510.06 |
| D | 84+84.75 | -9.25 | 510.18 | 510.22 |
| ☉ Pier 1 | 84+98.25 | -9.25 | 510.44 | 510.44 |
| E | 85+08.25 | -9.25 | 510.63 | 510.62 |
| F | 85+18.25 | -9.25 | 510.82 | 510.81 |
| G | 85+28.25 | -9.25 | 511.01 | 511.00 |
| ☉ Pier 2 | 85+42.75 | -9.25 | 511.29 | 511.29 |
| H | 85+52.75 | -9.25 | 511.48 | 511.51 |
| I | 85+62.75 | -9.25 | 511.67 | 511.74 |
| J | 85+72.75 | -9.25 | 511.86 | 511.94 |
| K | 85+82.75 | -9.25 | 512.06 | 512.11 |
| ☉ Brg. S. Abut. | 85+96.25 | -9.25 | 512.31 | 512.31 |
| Bk. S. Abut. | 85+97.50 | -9.25 | 512.34 | 512.34 |

BEAM 3

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. N. Abut. | 84+43.50 | -3.08 | 509.48 | 509.48 |
| ☉ Brg. N. Abut. | 84+44.75 | -3.08 | 509.51 | 509.51 |
| A | 84+54.75 | -3.08 | 509.70 | 509.74 |
| B | 84+64.75 | -3.08 | 509.89 | 509.96 |
| C | 84+74.75 | -3.08 | 510.08 | 510.15 |
| D | 84+84.75 | -3.08 | 510.27 | 510.32 |
| ☉ Pier 1 | 84+98.25 | -3.08 | 510.53 | 510.53 |
| E | 85+08.25 | -3.08 | 510.72 | 510.71 |
| F | 85+18.25 | -3.08 | 510.91 | 510.90 |
| G | 85+28.25 | -3.08 | 511.10 | 511.09 |
| ☉ Pier 2 | 85+42.75 | -3.08 | 511.38 | 511.38 |
| H | 85+52.75 | -3.08 | 511.57 | 511.61 |
| I | 85+62.75 | -3.08 | 511.76 | 511.83 |
| J | 85+72.75 | -3.08 | 511.96 | 512.03 |
| K | 85+82.75 | -3.08 | 512.15 | 512.20 |
| ☉ Brg. S. Abut. | 85+96.25 | -3.08 | 512.41 | 512.41 |
| Bk. S. Abut. | 85+97.50 | -3.08 | 512.43 | 512.43 |



PLAN

TOP OF SLAB ELEVATIONS

ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ DRAWN: SJS
CHECKED: DCD CHECKED: DCD

| | | | | | |
|---------------------|---------------|---------------------------|--------------------|--------------|-----------|
| SHEET 4 OF 19 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 10 | 410BR-1 | GREENE | 37 | 16 |
| | STA. 85+20.50 | | CONTRACT NO. 76B58 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |

FILE: J:\JDQ\10163 IL-08VW\8 IL 267 Taylor Creek-FINAL\1-Taylor Creek 0416161616.dgn USER: DCD DATE: 10/07/2008 15:05:58