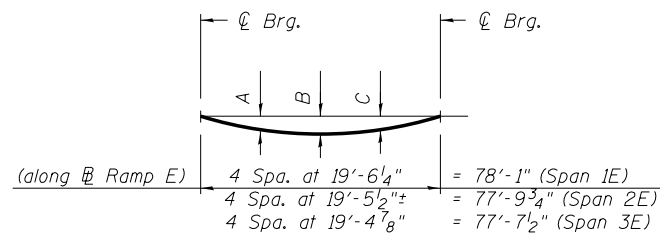


DEAD LOAD DEFLECTION DIAGRAM - MAINLINE SPANS 1-3

| Girder | 1A | 1B | 1C | 2A | 2B | 2C | 3A | 3B | 3C |
|--------|------|------|------|------|------|------|------|------|------|
| A1 | 1/2" | 1/2" | 1/4" | 3/8" | 1/2" | 1/4" | 1/4" | 1/2" | 1/4" |
| A2 | 1/2" | 1/2" | 1/4" | 3/8" | 3/4" | 3/8" | 1/4" | 1/2" | 1/4" |
| A3-A8 | 3/8" | 1/2" | 1/4" | 3/8" | 5/8" | 3/8" | 1/4" | 1/2" | 3/8" |

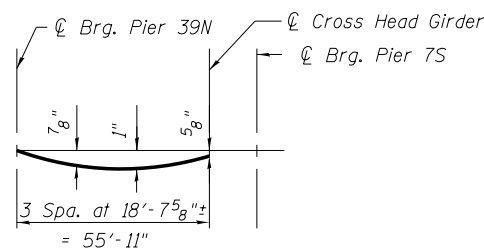
(Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM - RAMP SPANS 1E - 3E

| Beam | Span | A | B | C |
|-------|-------|--------|--------|--------|
| R1 | 1E-3E | 1 3/8" | 1 7/8" | 1 3/8" |
| R2-R4 | 1E-2E | 1 1/8" | 1 5/8" | 1 1/8" |
| R5 | 1E-2E | 1 5/8" | 2 1/4" | 1 5/8" |
| R2-R4 | 3E | 1 1/8" | 1 5/8" | 1 1/8" |

(Includes weight of concrete only.)

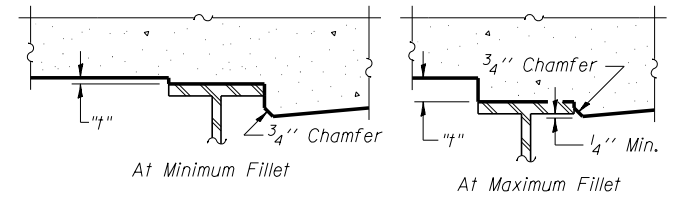


DEAD LOAD DEFLECTION DIAGRAM - SPAN 3E, BEAM R5

(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 on SD13 thru SD18.



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

FILLET HEIGHTS

GIRDER A1

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|------------------|----------|--------|------------------------------|--|
| CL. PIER 4 | 53+45.50 | -32.42 | 621.35 | 621.35 |
| CL. BRG. PIER 4N | 53+46.38 | -32.42 | 621.36 | 621.36 |
| 1A | 53+56.37 | -32.68 | 621.43 | 621.45 |
| 1B | 53+66.37 | -32.94 | 621.51 | 621.54 |
| 1C | 53+76.36 | -33.21 | 621.58 | 621.63 |
| 1D | 53+86.36 | -33.47 | 621.66 | 621.71 |
| 1E | 53+96.36 | -33.74 | 621.74 | 621.78 |
| 1F | 54+06.35 | -34.00 | 621.82 | 621.85 |
| 1G | 54+16.35 | -34.26 | 621.91 | 621.92 |
| CL. BRG. PIER 5 | 54+31.00 | -34.65 | 622.03 | 622.03 |
| 2A | 54+41.00 | -34.92 | 622.12 | 622.12 |
| 2B | 54+50.99 | -35.18 | 622.21 | 622.23 |
| 2C | 54+60.99 | -35.44 | 622.30 | 622.33 |
| 2D | 54+70.99 | -35.71 | 622.39 | 622.43 |
| 2E | 54+80.98 | -35.97 | 622.48 | 622.53 |
| 2F | 54+90.98 | -36.23 | 622.58 | 622.62 |
| 2G | 55+00.98 | -36.50 | 622.67 | 622.71 |
| 2H | 55+10.97 | -36.76 | 622.77 | 622.80 |
| 2J | 55+20.97 | -37.03 | 622.87 | 622.88 |
| 2K | 55+30.97 | -37.29 | 622.97 | 622.97 |
| CL. BRG. PIER 6 | 55+37.38 | -37.46 | 623.04 | 623.04 |
| 3A | 55+47.37 | -37.72 | 623.14 | 623.15 |
| 3B | 55+57.37 | -37.99 | 623.25 | 623.27 |
| 3C | 55+67.36 | -38.08 | 623.36 | 623.40 |
| 3D | 55+77.36 | -38.08 | 623.44 | 623.49 |
| 3E | 55+87.36 | -38.08 | 623.58 | 623.62 |
| 3F | 55+97.35 | -38.08 | 623.72 | 623.75 |
| 3G | 56+07.35 | -38.08 | 623.87 | 623.88 |
| CL. BRG. PIER 7S | 56+22.00 | -38.08 | 624.08 | 624.08 |
| CL. PIER 7 | 56+22.75 | -38.08 | 624.08 | 624.08 |

GIRDER A2

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|------------------|----------|--------|------------------------------|--|
| CL. PIER 4 | 53+45.50 | -23.04 | 621.54 | 621.54 |
| CL. BRG. PIER 4N | 53+46.38 | -23.04 | 621.55 | 621.55 |
| 1A | 53+56.37 | -23.44 | 621.62 | 621.64 |
| 1B | 53+66.36 | -23.83 | 621.69 | 621.72 |
| 1C | 53+76.35 | -24.22 | 621.76 | 621.81 |
| 1D | 53+86.34 | -24.62 | 621.84 | 621.88 |
| 1E | 53+96.34 | -25.01 | 621.92 | 621.95 |
| 1F | 54+06.33 | -25.41 | 622.00 | 622.02 |
| 1G | 54+16.32 | -25.80 | 622.08 | 622.09 |
| CL. BRG. PIER 5 | 54+31.00 | -26.38 | 622.20 | 622.20 |
| 2A | 54+40.99 | -26.78 | 622.28 | 622.29 |
| 2B | 54+50.98 | -27.17 | 622.37 | 622.39 |
| 2C | 54+60.98 | -27.57 | 622.46 | 622.49 |
| 2D | 54+70.97 | -27.96 | 622.54 | 622.60 |
| 2E | 54+80.96 | -28.35 | 622.63 | 622.69 |
| 2F | 54+90.95 | -28.75 | 622.73 | 622.78 |
| 2G | 55+00.95 | -29.14 | 622.82 | 622.87 |
| 2H | 55+10.94 | -29.54 | 622.92 | 622.95 |
| 2J | 55+20.93 | -29.93 | 623.01 | 623.03 |
| 2K | 55+30.92 | -30.33 | 623.11 | 623.12 |
| CL. BRG. PIER 6 | 55+37.38 | -30.58 | 623.18 | 623.18 |
| 3A | 55+47.37 | -30.98 | 623.28 | 623.28 |
| 3B | 55+57.36 | -31.37 | 623.38 | 623.40 |
| 3C | 55+67.35 | -31.76 | 623.48 | 623.52 |
| 3D | 55+77.34 | -32.16 | 623.56 | 623.61 |
| 3E | 55+87.34 | -32.55 | 623.69 | 623.73 |
| 3F | 55+97.33 | -32.95 | 623.82 | 623.85 |
| 3G | 56+07.32 | -33.34 | 623.96 | 623.97 |
| CL. BRG. PIER 7S | 56+22.00 | -33.92 | 624.16 | 624.16 |
| CL. PIER 7 | 56+22.75 | -33.92 | 624.17 | 624.17 |

Note:

Offset measured perpendicular to SB IL-171

| | | | |
|-------------|---------------------|----------------|-----------|
| FILE NAME = | USER NAME = ksnider | DESIGNED - DTS | REVISED - |
| | | CHECKED - AJK | REVISED - |
| | | DRAWN - KMS | REVISED - |
| | | CHECKED - AJK | REVISED - |

| | | | | |
|-------------------------------|-------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 372 | 2013-038B-R | COOK | 821 | 388 |
| CONTRACT NO. 60J16 | | | | |
| SHEET NO. SD13 OF SD83 SHEETS | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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