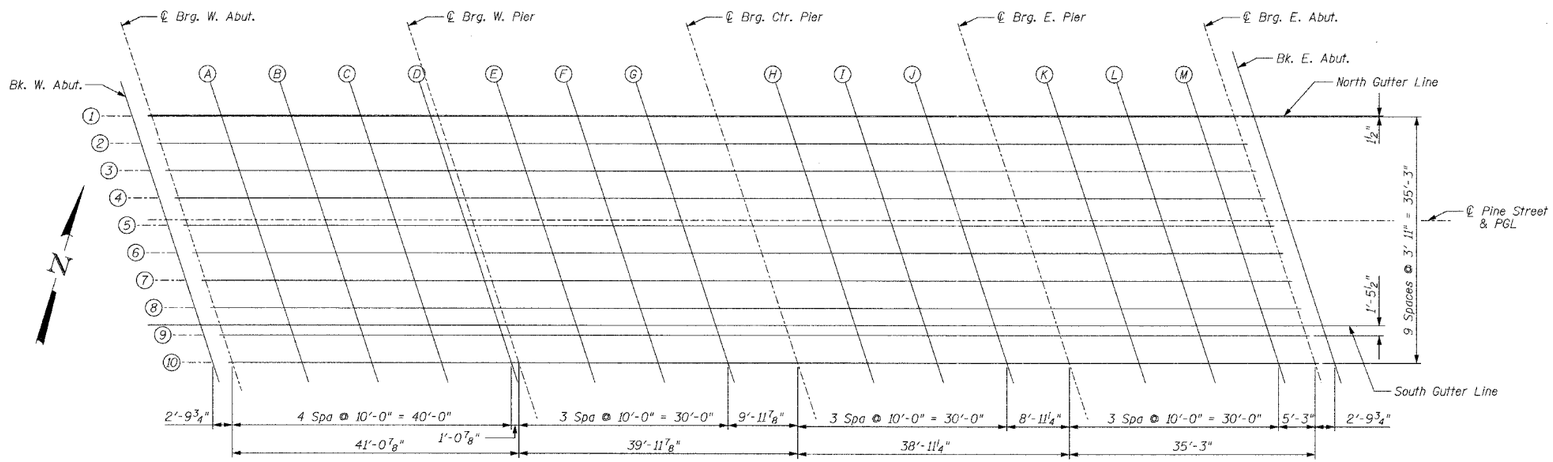
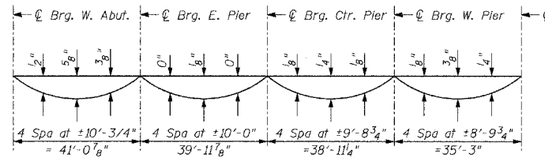
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 00-00094-03-BR | COOK | 69 | 23 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | | |
| Sheet SA-4 of SA-23 | | CONTRACT 83850 | | |



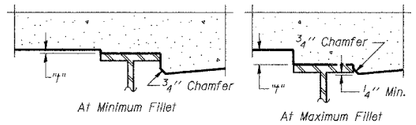

## PLAN




## DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

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




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 and on SA-4 thru SA-6, minus slab thickness, equals the fillet heights "t" above top flange of beams.

## FILLET HEIGHTS

### North Gutter Line

| Location | Station | Offset | Theoretical Grade Elevation | Theoretical Grade Elevations Adjusted For Dead Load Deflections |
|---|---|---|---|---|
| BK. W. ABUT. | 100+21.17 | 15.00 | 658.05 | 658.05 |
| ℄ BRG. W. ABUT. | 100+23.97 | 15.00 | 658.16 | 658.16 |
| A | 100+33.97 | 15.00 | 658.53 | 658.57 |
| B | 100+43.97 | 15.00 | 658.84 | 658.90 |
| C | 100+53.97 | 15.00 | 659.10 | 659.14 |
| D | 100+63.97 | 15.00 | 659.31 | 659.31 |
| ℄ W. PIER | 100+65.05 | 15.00 | 659.33 | 659.33 |
| E | 100+75.05 | 15.00 | 659.48 | 659.48 |
| F | 100+85.05 | 15.00 | 659.58 | 659.59 |
| G | 100+95.05 | 15.00 | 659.62 | 659.63 |
| ℄ CTR. PIER | 101+05.04 | 15.00 | 659.61 | 659.61 |
| H | 101+15.04 | 15.00 | 659.55 | 659.56 |
| I | 101+25.04 | 15.00 | 659.44 | 659.46 |
| J | 101+35.04 | 15.00 | 659.27 | 659.28 |
| ℄ E. PIER | 101+43.97 | 15.00 | 659.08 | 659.08 |
| K | 101+53.97 | 15.00 | 658.82 | 658.83 |
| L | 101+63.97 | 15.00 | 658.50 | 658.53 |
| M | 101+73.97 | 15.00 | 658.13 | 658.14 |
| ℄ BRG. E. ABUT. | 101+79.22 | 15.00 | 657.91 | 657.91 |
| BK. E. ABUT. | 101+82.03 | 15.00 | 657.79 | 657.79 |

### Beam No. 1

| Location | Station | Offset | Theoretical Grade Elevation | Theoretical Grade Elevations Adjusted For Dead Load Deflections |
|---|---|---|---|---|
| BK. W. ABUT. | 100+21.21 | 14.88 | 658.05 | 658.05 |
| ℄ BRG. W. ABUT. | 100+24.02 | 14.88 | 658.16 | 658.16 |
| A | 100+34.02 | 14.88 | 658.53 | 658.57 |
| B | 100+44.02 | 14.88 | 658.84 | 658.90 |
| C | 100+54.02 | 14.88 | 659.10 | 659.14 |
| D | 100+64.02 | 14.88 | 659.31 | 659.32 |
| ℄ W. PIER | 100+65.09 | 14.88 | 659.33 | 659.33 |
| E | 100+75.09 | 14.88 | 659.48 | 659.49 |
| F | 100+85.09 | 14.88 | 659.58 | 659.59 |
| G | 100+95.09 | 14.88 | 659.62 | 659.63 |
| ℄ CTR. PIER | 101+05.08 | 14.88 | 659.62 | 659.62 |
| H | 101+15.08 | 14.88 | 659.56 | 659.57 |
| I | 101+25.08 | 14.88 | 659.44 | 659.46 |
| J | 101+35.08 | 14.88 | 659.28 | 659.28 |
| ℄ E. PIER | 101+44.02 | 14.88 | 659.08 | 659.08 |
| K | 101+54.02 | 14.88 | 658.82 | 658.83 |
| L | 101+64.02 | 14.88 | 658.50 | 658.53 |
| M | 101+74.02 | 14.88 | 658.13 | 658.14 |
| ℄ BRG. E. ABUT. | 101+79.27 | 14.88 | 657.91 | 657.91 |
| BK. E. ABUT. | 101+82.07 | 14.88 | 657.79 | 657.79 |

### Beam No. 2

| Location | Station | Offset | Theoretical Grade Elevation | Theoretical Grade Elevations Adjusted For Dead Load Deflections |
|---|---|---|---|---|
| BK. W. ABUT. | 100+22.49 | 10.96 | 658.16 | 658.16 |
| ℄ BRG. W. ABUT. | 100+25.30 | 10.96 | 658.27 | 658.27 |
| A | 100+35.30 | 10.96 | 658.63 | 658.68 |
| B | 100+45.30 | 10.96 | 658.94 | 659.00 |
| C | 100+55.30 | 10.96 | 659.20 | 659.23 |
| D | 100+65.30 | 10.96 | 659.40 | 659.40 |
| ℄ W. PIER | 100+66.37 | 10.96 | 659.42 | 659.42 |
| E | 100+76.37 | 10.96 | 659.56 | 659.56 |
| F | 100+86.37 | 10.96 | 659.65 | 659.66 |
| G | 100+96.37 | 10.96 | 659.69 | 659.70 |
| ℄ CTR. PIER | 101+06.36 | 10.96 | 659.67 | 659.67 |
| H | 101+16.36 | 10.96 | 659.60 | 659.62 |
| I | 101+26.36 | 10.96 | 659.48 | 659.50 |
| J | 101+36.36 | 10.96 | 659.31 | 659.32 |
| ℄ E. PIER | 101+45.30 | 10.96 | 659.11 | 659.11 |
| K | 101+55.30 | 10.96 | 658.84 | 658.86 |
| L | 101+65.30 | 10.96 | 658.52 | 658.54 |
| M | 101+75.30 | 10.96 | 658.14 | 658.15 |
| ℄ BRG. E. ABUT. | 101+80.55 | 10.96 | 657.92 | 657.92 |
| BK. E. ABUT. | 101+83.36 | 10.96 | 657.80 | 657.80 |

| REVISIONS | |
|---|---|
| NAME | DATE |
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Ciorba Group, Inc.
CONSULTING ENGINEERS
5607 NORTH CUMBERLAND AVENUE :: CHICAGO, ILLINOIS 60656 :: (773) 775-4369


VILLAGE OF WINNETKA, ILLINOIS
TOP OF SLAB ELEVATIONS I
PINE STREET OVER THE UNION PACIFIC R.R.
R.R. MILE POST 16.89 KENOSHA SUBDIVISION
COOK COUNTY STA. 101+09.96
STRUCTURE NO. 016-8259

SCALE: NONE
DATE: JUNE 2006
FILE: 3278
DRAWN BY: RCD
DESIGN BY: BWS
CHECKED BY: SCD

DATE: 7/20/2006
FILENAME: N:\PROJ\3278\Pine\Design\Structural_Pine_3278\CAD\Final_plan_rev\3278-Pine-tsel01.dgn