

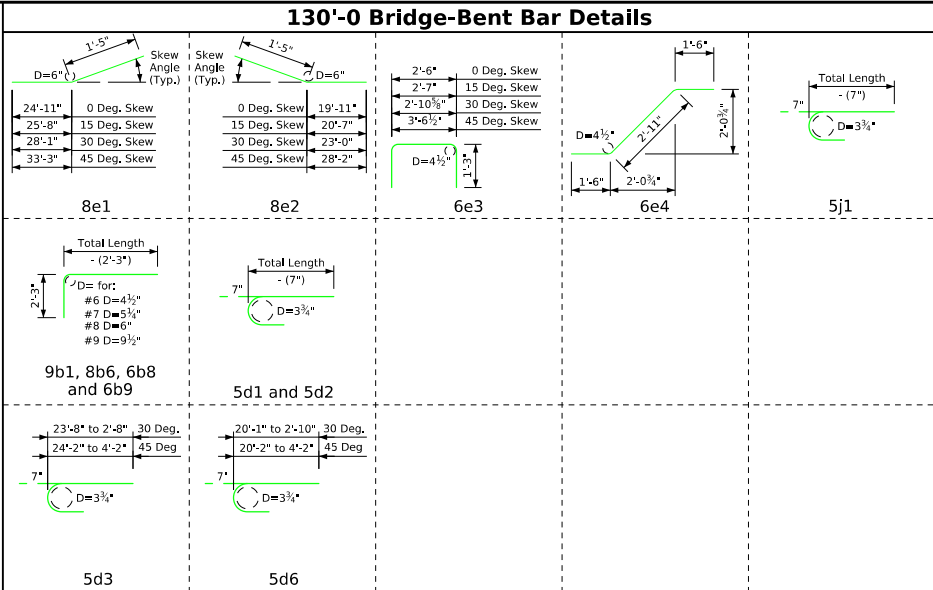
|                                   | Epoxy Steel Reinforcing for Superstructure-130' Bridge |             |         |        |        |         |        |        |         |        |        |         |      |
|-----------------------------------|--------------------------------------------------------|-------------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|------|
|                                   | Location                                               | Degree Skew |         | 0      |        | 15      |        | 30     |         | 45     |        | Weight  |      |
|                                   |                                                        | Shape       | No.     | Length | Weight | No.     | Length | Weight | No.     | Length | Weight |         | No.  |
| Slab Longitudinal Bottom          | 9a1                                                    | 53          | 26'-4"  | 4746   | 53     | 26'-4"  | 4746   | 53     | 26'-4"  | 4746   | 53     | 26'-4"  | 4746 |
| Slab Longitudinal Bottom          | 9a2                                                    | 53          | 38'-10" | 6998   | 53     | 38'-10" | 6998   | 53     | 38'-10" | 6998   | 53     | 38'-10" | 6998 |
| Slab Longitudinal Bottom          | 9a3                                                    | 53          | 41'-9"  | 7524   | 53     | 41'-9"  | 7524   | 53     | 41'-9"  | 7524   | 53     | 41'-9"  | 7524 |
| Slab Longitudinal Bottom          | 9a4                                                    | 52          | 31'-6"  | 5570   | 52     | 31'-6"  | 5570   | 52     | 31'-6"  | 5570   | 52     | 31'-6"  | 5570 |
| Slab Longitudinal Bottom          | 10a5                                                   | 26          | 35'-10" | 4009   | 26     | 35'-10" | 4009   | 26     | 35'-10" | 4009   | 26     | 35'-10" | 4009 |
| Slab Longitudinal Bottom, at Rail | 9a6                                                    | 8           | 39'-2"  | 1066   | 8      | 39'-2"  | 1066   | 8      | 39'-2"  | 1066   | 8      | 39'-2"  | 1066 |
| Slab Longitudinal Bottom, at Rail | 9a7                                                    | 4           | 49'-10" | 678    | 4      | 49'-10" | 678    | 4      | 49'-10" | 678    | 4      | 49'-10" | 678  |
| Slab Longitudinal Bottom, at Rail | 9a8                                                    | 8           | 28'-0"  | 762    | 8      | 28'-0"  | 762    | 8      | 28'-0"  | 762    | 8      | 28'-0"  | 762  |
| Slab Longitudinal Bottom, at Rail | 9a9                                                    | 4           | 34'-9"  | 473    | 4      | 34'-9"  | 473    | 4      | 34'-9"  | 473    | 4      | 34'-9"  | 473  |
| Slab Longitudinal Bottom, at Rail | 9a10                                                   | 8           | 12'-4"  | 336    | 8      | 12'-4"  | 336    | 8      | 12'-4"  | 336    | 8      | 12'-4"  | 336  |
| Slab Longitudinal Top             | 9b1                                                    | 53          | 7'-7"   | 1367   | 53     | 7'-7"   | 1367   | 53     | 7'-7"   | 1367   | 53     | 7'-7"   | 1367 |
| Slab Longitudinal Top             | 11b2                                                   | 53          | 23'-6"  | 6618   | 53     | 23'-6"  | 6618   | 53     | 23'-6"  | 6618   | 53     | 23'-6"  | 6618 |
| Slab Longitudinal Top             | 11b3                                                   | 53          | 23'-1"  | 6501   | 53     | 23'-1"  | 6501   | 53     | 23'-1"  | 6501   | 53     | 23'-1"  | 6501 |
| Slab Longitudinal Top             | 10b4                                                   | 52          | 19'-11" | 4457   | 52     | 19'-11" | 4457   | 52     | 19'-11" | 4457   | 52     | 19'-11" | 4457 |
| Slab Longitudinal Top             | 6b5                                                    | 26          | 39'-8"  | 1550   | 26     | 39'-8"  | 1550   | 26     | 39'-8"  | 1550   | 26     | 39'-8"  | 1550 |
| Slab Longitudinal Top             | 8b6                                                    | 53          | 31'-9"  | 4493   | 53     | 31'-9"  | 4493   | 53     | 31'-9"  | 4493   | 53     | 31'-9"  | 4493 |
| Slab Longitudinal Top, at Rail    | 6b8                                                    | 8           | 35'-11" | 432    | 8      | 35'-11" | 432    | 8      | 35'-11" | 432    | 8      | 35'-11" | 432  |
| Slab Longitudinal Top, at Rail    | 6b9                                                    | 8           | 39'-9"  | 478    | 8      | 39'-9"  | 478    | 8      | 39'-9"  | 478    | 8      | 39'-9"  | 478  |
| Slab Longitudinal Top, at Rail    | 6b10                                                   | 4           | 32'-8"  | 197    | 4      | 32'-8"  | 197    | 4      | 32'-8"  | 197    | 4      | 32'-8"  | 197  |
| Slab Longitudinal Top, at Rail    | 11b11                                                  | 8           | 23'-3"  | 989    | 8      | 23'-3"  | 989    | 8      | 23'-3"  | 989    | 8      | 23'-3"  | 989  |
| Slab Longitudinal Top, at Rail    | 10b12                                                  | 8           | 12'-6"  | 431    | 8      | 12'-6"  | 431    | 8      | 12'-6"  | 431    | 8      | 12'-6"  | 431  |
| Slab Transverse Bottom            | 6c1                                                    | 127         | 24'-4"  | 4642   | 127    | 25'-2"  | 4801   | 117    | 24'-4"  | 4277   | 107    | 24'-4"  | 3911 |
| Slab Transverse Bottom            | 6c2                                                    | 127         | 21'-3"  | 4054   | 127    | 22'-0"  | 4197   | 119    | 21'-3"  | 3799   | 111    | 21'-3"  | 3543 |
| Slab Transverse Ends, Bottom      | 6c3                                                    | -           | -       | -      | -      | -       | -      | 13     | VARIES  | 262    | 21     | VARIES  | 447  |
| Slab Transverse Ends, Bottom      | 6c4                                                    | -           | -       | -      | -      | -       | -      | 11     | VARIES  | 233    | 20     | VARIES  | 386  |
| Slab Transverse Ends, Bottom      | 6c5                                                    | -           | -       | -      | -      | -       | -      | 10     | VARIES  | 173    | 17     | VARIES  | 298  |
| Slab Transverse Ends, Bottom      | 6c6                                                    | -           | -       | -      | -      | -       | -      | 11     | VARIES  | 191    | 17     | VARIES  | 311  |
| Slab Transverse Top               | 5d1                                                    | 127         | 25'-3"  | 3345   | 127    | 26'-1"  | 3456   | 117    | 25'-3"  | 3082   | 107    | 25'-3"  | 2818 |
| Slab Transverse Top               | 5d2                                                    | 127         | 21'-10" | 2893   | 127    | 22'-7"  | 2992   | 119    | 21'-10" | 2710   | 111    | 21'-10" | 2528 |
| Slab Transverse Ends, Top         | 5d3                                                    | -           | -       | -      | -      | -       | -      | 13     | VARIES  | 188    | 21     | VARIES  | 324  |
| Slab Transverse Ends, Top         | 5d4                                                    | -           | -       | -      | -      | -       | -      | 11     | VARIES  | 166    | 20     | VARIES  | 275  |
| Slab Transverse Ends, Top         | 5d5                                                    | -           | -       | -      | -      | -       | -      | 10     | VARIES  | 120    | 17     | VARIES  | 207  |
| Slab Transverse Ends, Top         | 5d6                                                    | -           | -       | -      | -      | -       | -      | 11     | VARIES  | 139    | 17     | VARIES  | 227  |
| Slab, Transverse at Abutment      | 8e1                                                    | 18          | 26'-4"  | 1266   | 18     | 27'-1"  | 1302   | 18     | 29'-6"  | 1418   | 18     | 34'-8"  | 1667 |
| Slab, Transverse at Abutment      | 8e2                                                    | 18          | 21'-4"  | 1026   | 18     | 22'-0"  | 1058   | 18     | 24'-5"  | 1174   | 18     | 29'-7"  | 1422 |
| Slab, Transverse at Abutment      | 6e3                                                    | 92          | 5'-0"   | 691    | 92     | 5'-1"   | 703    | 92     | 5'-5"   | 749    | 92     | 6'-1"   | 841  |
| Slab, Transverse at Abutment      | 6e4                                                    | 92          | 5'-11"  | 818    | 92     | 5'-11"  | 818    | 92     | 5'-11"  | 818    | 92     | 5'-11"  | 818  |
| Top of Slab, Transverse, at Rail  | 5j1                                                    | 252         | 6'-9"   | 1775   | 252    | 6'-9"   | 1775   | 242    | 6'-9"   | 1704   | 236    | 6'-9"   | 1662 |
| Wing, Vertical                    | 5m1                                                    | 40          | 4'-5"   | 185    | 40     | 4'-5"   | 185    | 40     | 4'-5"   | 185    | 40     | 4'-5"   | 185  |
| Wing, Horizontal Back Face        | 5n1                                                    | 48          | 6'-8"   | 334    | 48     | 6'-8"   | 334    | 48     | 6'-8"   | 334    | 48     | 6'-8"   | 334  |

|                                                               |  |  |  |        |  |  |        |  |  |        |  |        |
|---------------------------------------------------------------|--|--|--|--------|--|--|--------|--|--|--------|--|--------|
| Epoxy Reinforcing Total Weight (lbs)                          |  |  |  | 80,704 |  |  | 81,296 |  |  | 81,397 |  | 81,879 |
| Rail Single-Slope Barrier - Quantities - See Sheet J40-48-25. |  |  |  | 5429   |  |  | 5429   |  |  | 5429   |  | 5429   |
| Rail Open Barrier - Quantities - See Sheet J40-52-25.         |  |  |  | 6331   |  |  | 6331   |  |  | 6331   |  | 6331   |
| Epoxy Coated Rail Total-Hbs. Monolithic Single-Slope Rail     |  |  |  | 86,133 |  |  | 86,725 |  |  | 86,826 |  | 87,308 |
| Epoxy Coated Rail Total-Hbs. Monolithic Open Rail             |  |  |  | 87,035 |  |  | 87,627 |  |  | 87,728 |  | 88,210 |
| Epoxy Coated Rail Total-Hbs. Non-Monolithic Single-Slope Rail |  |  |  | 86,133 |  |  | 86,725 |  |  | 86,826 |  | 87,308 |
| Epoxy Coated Rail Total-Hbs. Non-Monolithic Open Rail         |  |  |  | 87,035 |  |  | 87,627 |  |  | 87,728 |  | 88,210 |
| Stainless Steel Rail Total-Hbs. Single-Slope Rail             |  |  |  | 2855   |  |  | 2855   |  |  | 2855   |  | 2855   |

| Estimated Quantities for Superstructure 130' Bridge  |                |        |        |        |                    |        |        |        |    |     |     |     |
|------------------------------------------------------|----------------|--------|--------|--------|--------------------|--------|--------|--------|----|-----|-----|-----|
| Item                                                 | Monolithic Cap |        |        |        | Non-Monolithic Cap |        |        |        | 0° | 15° | 30° | 45° |
|                                                      | 0°             | 15°    | 30°    | 45°    | 0°                 | 15°    | 30°    | 45°    |    |     |     |     |
| With Single-Slope Rail                               |                |        |        |        |                    |        |        |        |    |     |     |     |
| * Structural Concrete (Bridge) (c.y.)                | 390.6          | 391.4  | 393.4  | 398.1  | 394                | 394.7  | 397.3  | 402.8  |    |     |     |     |
| Reinf. Steel Epoxy Coated (lbs.)                     | 86,133         | 86,725 | 86,826 | 87,308 | 86,133             | 86,725 | 86,826 | 87,308 |    |     |     |     |
| Δ Reinf. Steel Stainless Steel (lbs.)                | 3078           | 3078   | 3078   | 3078   | 3078               | 3078   | 3078   | 3078   |    |     |     |     |
| Concrete single-slope barrier or open rail (lin.ft.) | 282            | 282.2  | 282.9  | 284.5  | 282                | 282.2  | 282.9  | 284.5  |    |     |     |     |
| With Open Rail                                       |                |        |        |        |                    |        |        |        |    |     |     |     |
| * Structural Concrete (Bridge) (c.y.)                | 390.4          | 391.1  | 393.1  | 397.9  | 394                | 394.7  | 397.3  | 402.6  |    |     |     |     |
| Reinf. Steel Epoxy Coated (lbs.)                     | 87,035         | 87,627 | 87,728 | 88,210 | 87,035             | 87,627 | 87,728 | 88,210 |    |     |     |     |
| Δ Reinf. Steel Stainless Steel (lbs.)                | 2762           | 2762   | 2762   | 2762   | 2762               | 2762   | 2762   | 2762   |    |     |     |     |

\* Includes 4 wings at 1.114 cubic yard each; excludes rail concrete.

Δ Includes abutment paving notch bar weight.



| Stainless Steel Reinforcing for Superstructure |       |     |     |        |        |
|------------------------------------------------|-------|-----|-----|--------|--------|
| (All Skews)                                    |       |     |     |        |        |
| Location                                       | Shape | Bar | No. | Length | Weight |
| Abutment Paving Notch Bar                      |       | 8u1 | 40  | 2'-1   | 223    |

8u1 bars are to be paid for under the price bid for "Reinforcing Steel, Stainless Steel". Weight = lbs.

**Note:**  
See J40-26-25 Sheet for Monolithic Pier Cap reinforcing details and quantities.  
See J40-28-25 Sheet for Non-Monolithic Pier Cap reinforcing details and quantities.

|                                                         |                                                      |
|---------------------------------------------------------|------------------------------------------------------|
| Latest Revision Date<br><br>Approved by Bridge Engineer | <b>IOWA   DOT</b>                                    |
|                                                         | Standard Design-40'-0" Roadway, 3 Span Bridge        |
|                                                         | <b>Continuous Concrete Slab Bridge</b><br>July, 2025 |
| Superstructure Details<br>130'-0" Bridge Quantities     | <b>J40-15-25</b>                                     |