### Complete Bill of Reinforcing Steel

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Length</th>
<th>Shape</th>
<th>Location</th>
<th>No.</th>
<th>Size</th>
<th>Length</th>
<th>Shape</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bending Sketches & Cutting Diagrams**

Note: Markings and bends shall be according to the AISC Manual of Steel Construction for fabricated steel. The letters A and B refer to the shape number in bending sketches, indicating bars that are to be bent according to the cutlist or shop and field dimensions. Total lengths are measured along centerline bar to the nearest inch.

---

**Detailed Notes:**
- This drawing is not to scale.
- Field dimensions are to be used.
- All bending dimensions are out to out.

**Polk County**

Blue No. 2 of 11
Note: See sheet No. 1 of 11 for location of spring.
NOTES: TYPE "O" BEARINGS

Load plates under bearings shall be approximately
10% less in width and weight, 0" off sq. Cost of load plates
shall be included in purchase price but the number of
plates does not include weight of
anchor bolts.

Anchor bolts for Type "O" Bearings shall be 1/4"
squiggled bolts and shall extend 3/8" into concrete,
with hexagon nuts and open washers for fixed
bearings, no nuts for expansion bearings.

PART PLAN

SECTION THRU CURB

End view of web
Expansion bearing

WELDING DETAILS

EXPANSION DEVICE AT END BENTS NO. 1-6

DETAIL "C"

Required: G-Bolt #1
G-Bolt #2
G-Bolt #3
G-Bolt #4
G-Bolt #5
G-Bolt #6

Expansion

Required: G-Bolt #5

TYPE "O" BEARINGS
(Estimated Weight 5500 lbs)

DETAIL OF 24" WIRE BEAM SPlice

Note: "A" & "B" drilled holes for
2" high strength bolts.

TABLE OF TYPE "O" BEARING DIMENSIONS

DETAILS OF SHEAR CONNECTORS

Note: Weight of 2000# of shear connectors
is included in weight of
Fabricated Structural Carbon Steel.

Plan of Stud Conn.

POLK COUNTY
MISSOURI STATE HIGHWAY DEPARTMENT

GENERAL BRIDGE RAIL NOTES:
All bridge rail posts shall be set normal to grade. Aluminum tube bridge rail shall be level to can form a vertical and horizontal alignment of parapet.
Aluminum water will shine between top of parapet and post base. clay be used for securing rail seat. Screw heads set screws shall be of aluminum material.

POST DETAILS

SECTION THRU BRIDGE RAIL

ONE TUBE ALUMINUM RAILING

SECTION NEAR LEFT CURB AND PARAPET

ELEVATION OF END POSTS

PLAN OF END POSTS

Note: This drawing is not to scale. Follow dimensions.
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (34’-5 @ 42’-34”) CONTINUOUS COMP. WF BEAM SPANS

SECTION THRU EXISTING SLAB

PART SECTION THRU EXPANSION JOINTS AT BENTS NO. 1 & 8

GENERAL NOTES:
Design Specifications:
2002 - AASHTO 7th Edition

Miscellaneous:
Maintain one lane of traffic on structure during construction. See roadway plans for traffic control.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the epoxy polymer concrete.

TYPICAL ELEVATION OF EXISTING CURB SHOWING OUTLET

TYPICAL SECTION OF EXISTING CURB SHOWING OUTLET

+ To edge of Exterior Stringer

Estimated Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Polymer Concrete Overlay</td>
<td>1.250</td>
</tr>
</tbody>
</table>

REPAIRS TO BRIDGE OVER DRY SAC RIVER
STATE ROAD FROM RTE. W SOUTH TO GREENE COUNTY LINE
ABOUT 0.6 MILES N. E. OF GREENE COUNTY LINE
PROJECT NO.    STA. 702+05.504 (Catch Exis)   Rte. 15 Prel
JOB NO. J9P0768  Rte: 15 HR

POLK COUNTY

[Diagram showing the layout and dimensions of the bridge repair, including sections and elevations.]
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (34'-5 @ 42'-34') CONTINUOUS COMP. WF BEAM SPANS

SECTION THRU EXISTING SLAB

PART SECTION THRU EXPANSION JOINTS AT BENTS NO. 1 & 2

TYPICAL ELEVATION OF EXISTING CURB SHOWING OUTLET

TYPICAL SECTION OF EXISTING CURB SHOWING OUTLET

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 11th Edition

Miscellaneous:
Maintain one lane of traffic on structure during construction. See roadway plans for traffic control.
"See" refers to sections in the standard and supplemental specifications unless specified otherwise.
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.
Contractor shall verify all dimensions in field before ordering new material.
The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the epoxy polymer concrete.

Table:

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Polymer Concrete Overlay</td>
<td>sq. yds</td>
</tr>
</tbody>
</table>

REPAIRS TO BRIDGE OVER DRY SAC RIVER
STATE ROAD FROM RTE. W SOUTH TO GREENE COUNTY LINE
ABOUT 0.6 MILES N. E. OF GREENE COUNTY LINE
PROJECT NO.
STA. 702+00-707 (Worth Ext.)
JOB NO. JP0786
RTE. 13 MIL.

Source: Polk County