

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts  $\frac{7}{8}$ "  $\phi$ , open holes  $\frac{5}{16}$ "  $\phi$ , unless otherwise noted.
2. Calculated weight of Structural Steel = 403,400 lbs
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Concrete Sealer shall be applied to the designated areas of the abutments.
8. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray Munsell No. 5B YR 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
9. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
10. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of the piles.
11. Slipforming of the parapets is not allowed.
12. The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

| ITEM                                     | UNIT  | SUPER   | SUB    | TOTAL   |
|--|-------|---------|--------|---------|
| Removal of Existing Structures           | Each  | -       | -      | 1       |
| Protective Coat                          | Sq Yd | 1,322   | 55     | 1,377   |
| Concrete Superstructure                  | Cu Yd | 539     | -      | 539     |
| Concrete Structures                      | Cu Yd | -       | 543    | 543     |
| Name Plates                              | Each  | 1       | -      | 1       |
| Prefomed Joint Strip Seal                | Foot  | 115     | -      | 115     |
| Elastomeric Bearing Assembly, Type I     | Each  | 16      | -      | 16      |
| Protective Shield                        | Sq Yd | 1,018   | -      | 1,018   |
| Furnishing and Erecting Structural Steel | L Sum | 1       | -      | 1       |
| Bridge Deck Grooving                     | Sq Yd | 1,022   | -      | 1,022   |
| Stud Shear Connectors                    | Each  | 6,960   | -      | 6,960   |
| Reinforcement Bars, Epoxy Coated         | Pound | 117,522 | 84,498 | 202,020 |
| Structure Excavation                     | Cu Yd | -       | 157    | 157     |
| Concrete Sealer                          | Sq Ft | -       | 1531   | 1531    |
| Slope Wall 4 Inch                        | Sq Yd | -       | 494    | 494     |
| Geocomposite Wall Drain                  | Sq Yd | -       | 274    | 274     |
| Test Pile Steel HP 12 x 53               | Each  | -       | 1      | 1       |
| Furnishing Steel Piles HP 12 x 53        | Foot  | -       | 513    | 513     |
| Driving Piles                            | Foot  | -       | 513    | 513     |
| Pile Shoes                               | Each  | -       | 20     | 20      |
| Pipe Underdrains for Structures 4 Inch   | Foot  | -       | 247    | 247     |
| Bar Splicers                             | Each  | -       | 303    | 303     |
| Mechanical Splicers                      | Each  | -       | 120    | 120     |
| Porous Granular Embankment, Special      | Cu Yd | -       | 139    | 139     |
| Temporary Sheet Piling                   | Sq Ft | -       | 163    | 163     |
| Rock Excavation For Structures           | Cu Yd | -       | 349    | 349     |
| Concrete Encasement                      | Cu Yd | -       | 7      | 7       |
| Anchor Bolts 1 1/2"                      | Each  | -       | 32     | 32      |
| Anchor Bolts 2"                          | Each  | -       | 16     | 16      |
| Pile Extraction                          | Each  | -       | 8      | 8       |
| Temporary Support System                 | L Sum | -       | 1      | 1       |
| Temporary Soil Retention System          | Sq Ft | -       | 207    | 207     |

The existing rocker bearings at the abutments, as well as the most corroded and least corroded bearing at Pier 2, shall be salvaged. This salvage shall include the rocker/bolster, top and bottom bearing plates, any shim plates, and anchor bolts. The bearing components shall be identified with substructure unit and beam line markings such that they can be re-assembled at a future date. The bearings shall be delivered to the Columbia Maintenance Yard; Field Technician Mark Harris; Phone # 618-281-4565.

See Sheet 2 for salvage details.

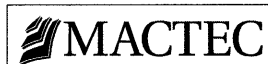
STATION 110+99.40  
BUILT BY  
STATE OF ILLINOIS  
F.A. RT. 158 SEC. 67-1HBR  
LOADING HL-93  
STR. NO. 067-0042

**NAME PLATE**  
See Std. 515001

INDEX OF DRAWINGS, BILL OF MATERIAL & GENERAL NOTES  
STRUCTURE NO. 067-0042

| SHEET NO. 2                                     | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|---------|--------|--------------|-----------|
| 34 SHEETS                                       | 809        | 67-1HBR | Monroe | 144          | 66        |
| CONTRACT NO. 76977                              |            |         |        |              |           |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |            |         |        |              |           |

|                    |
|--------------------|
| DESIGNED - JPM     |
| CHECKED - WPM      |
| DRAWN - GAP        |
| CHECKED - JPM, WPM |



9-28-09

Rev. 2-19-10  
Rev. 2-11-10