

| SHEET     | NO. | 2 |
|-----------|-----|---|
| 23 SHEETS |     |   |

| ROUTE NO.             | SECTION | COUNTY   |                   | TOTAL<br>SHEETS | SHEET<br>NO. |
|-----------------------|---------|----------|-------------------|-----------------|--------------|
| F.A.P.<br>717         | 101B-1  | LOGAN    |                   | 49              | 18           |
| FED. ROAD DIST. NO. 7 |         | ILLINDIS | FED. AID PROJECT- |                 |              |

Contract #72A04

## GENERAL NOTES

Fasteners shall be AASHTO M 164, Type 1, mechanically galvanized bolts in painted areas and M 164 Type 3 in unpainted areas. Bolts  $7_8$ "  $\phi$ , holes <sup>15</sup>, " Ø, unless otherwise noted.

Calculated weight of Structural Steel = 275,110 Lbs.

All structural steel shall be AASHTO M270 Grade 50W.

No field welding is permitted except as specified in the contract documents. Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of <sup>1</sup><sub>8</sub> inch (0.01 Ft.). Adjustment shall be made either by grinding the surface or by shimming the bearing.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

The Contractor shall drive test piles to 110% of the nominal required bearing specified in permanent locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

In lieu of hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.

Two  ${}^{l}_{B}$  inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The Contractor is advised that the existing PPC Deck Beams are in deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

> GENERAL INFORMATION IL ROUTE 10 OVER PRAIRIE CREEK F.A.P. ROUTE 717 - SECTION 101B-1 LOGAN COUNTY STATION 254+75.91 STRUCTURE NO. 054-0507