

TOTAL SHEETS SHEET NO. SHEET NO.  ${\it 1}$ 20 17 4 SHEETS MC DONOUGH

Contract Number: 68744

## GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded

The cost of epoxy grouting threaded rods on the pier cap and beams shall be included with Furnishing and Erecting Structural Steel.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

The cost of any excavation required shall be included with Furnishing and

The Contractor has the option of using used steel. See Special Provisions. Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system.

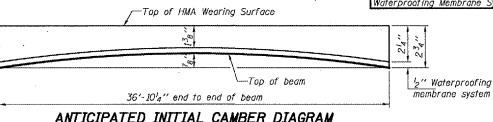
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60

Reinforcement bars designated (E) shall be epoxy coated.

Temporary concrete barrier shall only be anchored into the overlay and

## TOTAL RILL OF MATERIAL

| TOTAL DILL OF MATERIAL                                  |         |          |
|---|---------|----------|
| ITEM  | UNIT    | QUANTITY |
| Removal of Existing PPC Deck Beams                      | Sq. Ft. | 627      |
| Precast Prestressed Concrete Deck<br>Beams (17'' Depth) | Sq. Ft. | 621      |
| Hot-Mix Asphalt Surface Removal                         | Sq. Yd. | 22.7     |
| HMA Surface Course Mix "D" N50                          | Tons    | 8.6      |
| Concrete Superstructure                                 | Cu. Yd. | 2.5      |
| Reinforcement Bars Epoxy Coated                         | Pound   | 50       |
| Protective Coat   | Sq. Yd. | 23       |
| Furnishing and Erecting Structural Steel                | Pound   | 26970    |
| PC Mortar Fairing Course                                | Foot    | 258      |
| Removing and Re-erecting Existing Railing               | Foot    | 74       |
| Asbestos Bearing Pad Removal                            | Each    | 18       |
| Waterproofing Membrane System                           | Sq. Yd. | 84       |



<u>PLAN AND ELEVATION</u> FAP 687 MC DONOUGH COUNTY SN 055-0017

Expires: November 30, 2008