

ROUTE NO.	SECTION	COUNTY CHAMPAIGN		JELAS	RHERT ND.	SHEET NO.
836	118BR			29	8	9 SHEETS
FED. ROAD DIST, NO.		<b>FLLINOIG</b>	FED. AID PROJECT-			

## TOTAL BILL OF MATERIAL

EM	UNIT	SUPER	SUB	TOTAL
Superstructure	Each	1		1
	Cu. Yd.		3.4	3.4
	Cu. Yd.		4.7	4.7
DØ	Sq. Yd.	249		249
	Sq. Yd.	273		273
urface, <b>5"</b>	Sq. Yd.	266		266
d Concrete Deck Beams (17" Depth)	Sq. Ft.	2393		2393
, Epoxy Coated	Pound	3670	880	4550
îype SM	Foot	145		145
	Each	1		1
(Expansion) 1"	Foot	76.0		76.0
Removal	Each	22		22

Reinforcement bars shall conform to the requirements of AASHTO M 31 or

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the

All construction joints shall be bonded.

Removal of existing bridge rail included in the cost of Removal of Existing

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirement of Section 587 of the Standard Specifications shall be applied along the entire length of fascia beams to both the exterior vertical face and 9" in on the underside. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

No instream work will be allowed on this project. The contractor is advised that the existing PPC Deck Beams are in a 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.

If the contractor's procedure for existing beam removal and placement of new beams involves placement of cranes or other heavy equipment on new beams, 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 beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriagers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats, the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10(c) of the Standard Specifications.

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	ILLINOIS DEPARTM	ENT OF TRANSPORTATION			
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be mounted ant to existing Name me Plates.	IL ROUTE 49 OVER A TRIBUTARY OF THE LITTLE VERMILION RIVER F.A.P. ROUTE 836 SECTION 118BR CHAMPAIGN COUNTY STATION 664+76.09 STRUCTURE NO. 010-0236				
linger 10/7/05					
cense No. 081-005283 1/2006	DATE: JUNE 2005	DRAWN BY: NJV/MLO CHECKED BY: SJK			