

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 10 SHEETS
Rte. 20		Cook	22	9	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract # 62618

**GENERAL NOTES**

1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See special provisions.
2. Plan dimensions and details relative to existing plans are subject to routine variations. The contractor shall field verify existing dimension 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. All Construction joints shall be bonded.
4. The minimum thickness of the Concrete Wearing Surface shall be 5" and varies as required to adjust for the profile grade and beam camber. See Sht. 7 of 10.
5. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirement of ASTM A780. 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 requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. The work shall be performed by the producer and included with the cost of the beam.
6. The contractor shall coordinate all construction work with railroad prior to commencing work.
7. Repair of the pier caps and abutment shall be completed prior to placement of the new deck beams.
8. 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.
9. If the contractor's procedure for existing beam removal or 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 outriggers 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 after 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.

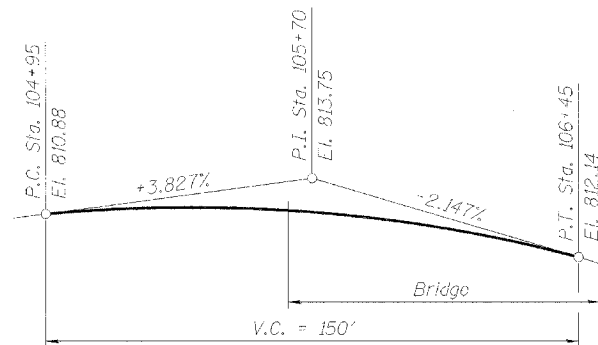
STATION 106+03.50  
REBUILT 200\_ BY  
STATE OF ILLINOIS  
U.S. RTE. 20  
LOADING HS20  
STR. NO. 016-0219

**NAME PLATE**  
See Std. 515001

Relocate existing name plate(s) next to rebuilt name plate, cost included in Name Plates.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Protective Coat	Sq. Yd.	593.0	-	593.0
Removal of Existing Superstructures	Each	1	-	1
Bridge Deck Grooving	Sq. Yd.	559.0	-	559.0
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	5,328	-	5,328
Reinforcement Bars, Epoxy Coated	Pound	8,020	-	8,020
Steel Railing, Type SM	Foot	206	-	206
Name Plates	Each	1	-	1
Concrete Wearing Surface, 5"	Sq. Yd.	593	-	593
Bar Splicers	Each	103	-	103
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	-	241	241
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	-	44	44
Epoxy Crack Injection	Foot	-	243	243



**PROFILE GRADE**  
U.S. Rte. 20  
(Use for Bridge CWS only)

DESIGNED	DDB
CHECKED	LLV
DRAWN	MGM
CHECKED	LLV

200	EXAMINED
ENGINEER OF BRIDGE DESIGN	PASSED
ENGINEER OF BRIDGES AND STRUCTURES	

**GENERAL NOTES AND  
TOTAL BILL OF MATERIAL  
U.S. RTE. 20 (F.A.P. 426)  
OVER E.J. & E. RAILROAD  
COOK COUNTY, STA. 106+03.50  
STRUCTURE NO. 016-0219**

**STS CONSULTANTS**  
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