

INDEX OF SHEETS

S1 General Plan & Elevation
 S2 General Notes, Total Bill of Materials and Index of Sheets
 S3 Stage Construction Details
 S4 Temporary Concrete Barrier for Stage Construction
 S5-6 Top of Concrete Wearing Surface Elevations
 S7-8 Top of West Approach Slab Elevations
 S9-10 Top of East Approach Slab Elevations
 S11 Superstructure
 S12 Superstructure Details I
 S13 Superstructure Details II
 S14 21"x48" PPC Deck Beam
 S15 21"x48" PPC Deck Beam Details
 S16-17 West Bridge Approach Slab Details
 S18-19 East Bridge Approach Slab Details
 S20 Aluminium Rail, Type L
 S21 Bicycle Railing
 S22 Preformed Joint Strip Seal
 S23 Abutment Details
 S24 Pier 1 Repairs
 S25 Pier 2 Repairs
 S26 Bar Splicer Assembly and Mechanical Splicer Details

GENERAL NOTES:

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction 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 at the unit price bid for the work.

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 existing or 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 existing or 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 on new beams, 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.

No in-stream work will be allowed on this project.

After the removal of the existing beams for Stage I and II removal, the Contractor shall re-connect or re-engage the transverse ties in the existing beams for Stage I and II.

Slipforming of parapets is not allowed.

Existing overhead electric line crosses the bridge on East Side and shall be temporarily relocated by others.

Current Ratings on File for Existing Structure
 Inventory: 0.68
 Operating 1.13
 Live Load Restrictions: No

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

Repair of the substructure shall be completed prior to placement of the new deck beams.

The contractor shall take extreme caution during all phases of construction to prevent the deposition of any material into Salt Creek and to protect the pedestrians and bikers on the Bike Path below the bridge from falling objects. The cost of protective system is included with Removal of Existing Superstructures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		23.0	23.0
Concrete Structures	Cu. Yd.		63.3	63.3
Concrete Superstructure	Cu. Yd.	420.0		420.0
Bridge Deck Grooving	Sq. Yd.	1,944		1,944
Protective Coat	Sq. Yd.	2609		2609
Precast Prestressed Concrete Deck Beams, 21" Depth	Sq. Ft.	15,050		15,050
Reinforcement Bars, Epoxy Coated	Pound	116,610	11,940	128,550
Bar Splicers	Each	598	160	758
Aluminum Railing, Type L	Foot	156		156
Bicycle Railing	Foot	190		190
Parapet Railing	Foot	175		175
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	207.5		207.5
Concrete Wearing Surface, 5"	Sq. Yd.	1,702		1,702
Asbestos Bearing Pad Removal	Each		52	52
Epoxy Crack Injection	Foot		16	16
Slope Wall Crack Sealing	Foot		14	14
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.		2	2
Stream Gauge	Eq.		1	1

USER NAME =	DESIGNED - LJ	REVISED
	CHECKED - EKM	REVISED
PLOT SCALE =	DRAWN - DR	REVISED
PLOT DATE =	CHECKED - LJ	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	131B-BR	DuPAGE	111	71
CONTRACT NO. 60V24				
ILLINOIS FED. AID PROJECT				