

ROUTE NO.	BECTION		COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 631	(111N-1 B)		WILL	32	16	14 SHEETS
FED. ROAD DIST. NO. 7 ILLINDIS		FED, AID PROJECT-				

### GENERAL NOTES

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 price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions.

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.

Attach new Name Plate to the inside face of steel rail as shown. Existing name plate is to be left in place.

Reinforcement Bars designated (E) shall be epoxy coated.

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

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

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

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

Burn or cut the existing dowel rods flush with existing bearing seat. Grind the existing dowel rods smooth and seal with epoxy. The cost of this work shall be included with "Removal of Existing Superstructures".

## LOADING HL-93

Allow 25 psf for future wearing surface

### DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications (4th Edition, 2007)

818+02.03 822+99.23 827+60.13 37°-47'19' 3°-56′39"

## DESIGN STRESSES

FIELD UNITS PRESTRESSED UNITS f'c = 3,500 psi f'c = 6,000 psi fy = 60,000 psi f'ci = 5,000 psi

f's = 270,000 psi (1/2" \$\u03c6 low lax. strands) f'si = 201,900 psi (1/2" \$\u00e9 low lax. strands)

# SEISMIC DATA

Seismic Performance Category (SPC) = A Bedrock acceleration coefficient (A) = .04a Site Coefficient (S) = 1.2

## TOTAL BILL OF MATERIAL

	UNIT	QUANTITY
tructures	Each	1
	Cu. Yd.	4.5
	Cu.Yd.	6.4
	Sq.Yd.	353
	Sq.Yd.	383
5")	Sq.Yd.	383
ətə	Sq.Ft.	3,443
Coated	Pound	5,850
	Each	116
	Foot	204
	Each	1
	Foot	68
ete	Sq.Ft.	71
in 5 Inches)		
oval	Each	24

GENERAL PLAN AND ELEVATION FAP 631 (ILL. RTE. 102) OVER FORKED CREEK OVERFLOW SECTION 111 N-1 B WILL COUNTY STA. 821+12.20 S.N. 099-0169