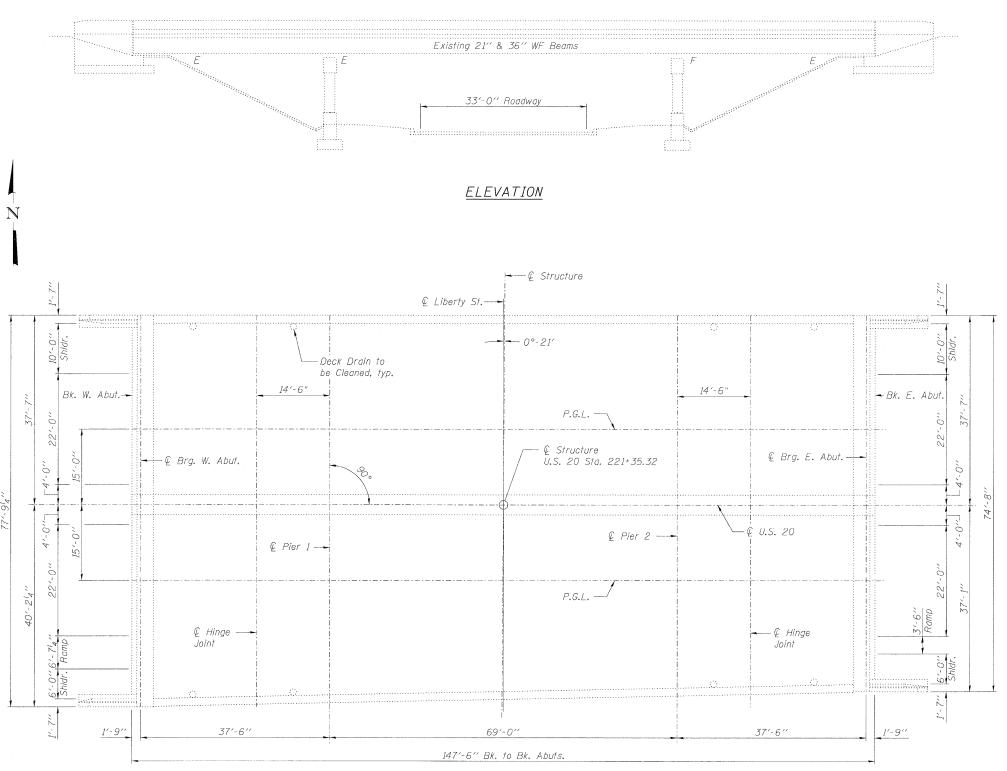
Existing Structure: S.N. 045-0007 built in 1959 as F.A. Route 6, Section 8R-HB-6 at Station 221+35.32. In 1986, sidewalks and deck at longitudinal bonded construction joints were removed and bridge was widened, expansion joints reconstructed, overlay placed, bearings replaced and substructure was rehabilitated and widened. In 1998, steel beams were repaired and pin and link plate was replaced. In 2002, deck was patched and sealed, and substructure repaired. Structure consists of a three span steel WF beam bridge with 147'-6" back-to-back abutments, varying out-to-out deck width from 74'-8" to $77'-9'_4"$, multi-column piers on spread footings and pile supported abutments. Stage construction shall be utilized to maintain one lane of traffic in each direction at



PLAN

SCOPE OF WORK

- 1. Replace the preformed joint seals at abutments and hinge joints with Silicone Joint Sealer.
- 2. Repair deck slab.
- 3. Clean drains.

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. Stage Construction Details
- 3. Superstructure Repair

GENERAL NOTES

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.

See Roadway Plans for maintenance of traffic details.

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION

EXISTING CONSTRUCTION (SUPER) fc = 1,400 psi

f'c = 3,500 psi fy = 60,000 psi (Reinforcement)

fs = 20,000 psi (Reinforcement)

LOADING HS 20

(Original Construction)

DESIGN SPECIFICATIONS

(New Construction) 2002 AASHTO "Standard Specifications for Highway Bridges"

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Silicone Joint Sealer, 1"	Foot	152	-	152
Silicone Joint Sealer, 134''	Foot	77	-	77
Silicone Joint Sealer, 234''	Foot	74	-	74
Floor Drains to be Cleaned	Each	8	-	8
Deck Slab Repair (Partial)	Sq. Yd.	39.7		39.7
Protective Shield	Sq. Yd.	539	-	539



Michael T. Haley Licensed Structural Engineer State of Illinois No. 81-5991 Expires 11/30/2012

3-24-2011

3rd. PM

R8 E

LOCATION SKETCH

GENERAL PLAN AND ELEVATION US 20 OVER IL 25 (LIBERTY STREET) FAP RTE 345 - SECTION 8R-1-RS-4

KANE COUNTY STATION 221+35.32

STRUCTURE NO. 045-0007



						_
	USER NAME ≃	DESIGNED -	TBP	REVISED	-	
).	FILE NAME =	CHECKED -	ADB	REVISED		
	PLOT SCALE =	DRAWN -	AJF	REVISED	-	
	PLOT DATE =	CHECKED -	MTH	REVISED	-	
						-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL	PLAN	AND	ELEVATION	
STRUCTURE		NO. 045-0007		
SHEET	NO.	OF 3 :	SHEETS	

COUNTY TOTAL SHEET NO. KANE 124 87 SECTION 345 8R-1-RS-4 CONTRACT NO. 60M46 ILLINOIS FED. AID PROJECT