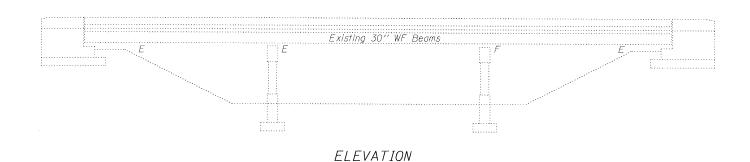
Existing Structure: S.N. 045-0005 built in 1960 as F.A. Route 6, Section 8R-HB4 at Station 207+52.06. In 1986, bridge was widened, expansion joints reconstructed, bearings replaced and substructure was rehabilitated and widened. In 2001, deck was patched and overlay was placed. Structure consists of a three span steel WF beam bridge with 139'-0" back-to-back abutments, varying out-to-out deck width from 78'-634" to 87'-8", multi-column piers and spill thru abutments supported on spread footings. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

42'-9"

└─Deck Drain to be Cleaned, typ.

€ Brg. W. Abut.

€ Pier 1 -



139'-0" Bk to Bk Abut

€ Raymond St. —

€ U.S. 20 -

© Bridge ·

U.S. 20 Sta 207+52.06

PLAN

SCOPE OF WORK

- 1. Replace the preformed joint seals at the abutments with Silicone Joint Sealer.
- 2. Repair deck slab.
- 3. Repair substructure utilizing temporary shoring and cribbing.

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. Stage Construction Details
- 3. Superstructure Repair
- 4. Substructure 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 at traffic details.

DESIGN STRESSES FIELD UNITS

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

EXISTING CONSTRUCTION

fc = 1,400 psi

fs = 24,000 psi (Reinforcement)

fs = 18,000 psi (Structural Steel)

LOADING HS-20

DESIGN SPECIFICATIONS

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Silicone Joint Sealer, 134''	Foot	87	-	87
Silicone Joint Sealer, 234''	Foot	78	-	78
Floor Drains to be Cleaned	Each	8	-	8
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	-	27	27
Deck Slab Repair (Partial)	Sq. Yd.	21.7	-	21.7
Temporary Shoring and Cribbing	Each	-	1	1
Protective Shield	Sq. Yd.	600	-	600



Michael J. Hale

3-24-2011

Date

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

LOCATION SKETCH

GENERAL PLAN AND ELEVATION US 20 OVER RAYMOND STREET FAP RTE 345 - SECTION 8R-1-RS-4 KANE COUNTY STATION 207+52.06

STRUCTURE NO. 045-0005

LIN ENGINEERING,LTD. Consulting Engineers

82

30

Bk. W. Abut.

DESIGNED - TBP REVISED FILE NAME CHECKED ADB REVISED PLOT SCALE DRAWN AJF REVISED PLOT DATE CHECKED MTH REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

42'-9"

€ Brg. E. Abut. —

Pier 2

P.G.L. --

1'-9"

Bk. E. Abut

GENERAL PLAN AND ELEVATION STRUCTURE NO. 045-0005 SHEET NO. 1 OF 4 SHEETS

COUNTY TOTAL SHEE SHEETS NO. SECTION 345 8R-1-RS-4 KANE 124 CONTRACT NO. 60M46