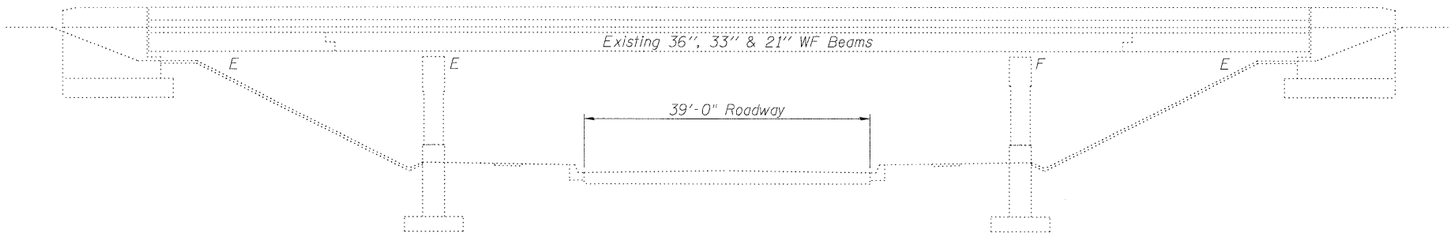
Existing Structure: S.N. 045-0006 built in 1960 as F.A. Route 6, Section 8R-HB-5 at Station 218+04.95. In 1986, bridge was widened, expansion joints reconstructed, overlay placed, bearings replaced and substructure was rehabilitated and widened. In 2003, steel beams were repaired and straightened. Structure consists of a three span steel WF beam bridge with 160'-2" back-to-back abutments, varying out-to-out deck width from 75'-5 3/4" to 78'-10 1/4", 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 all times.

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.



ELEVATION

SCOPE OF WORK

1. Replace the preformed joint seals at the 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

DESIGN STRESSES

FIELD UNITS (New Const.)

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

FIELD UNITS (Existing Superstructure)

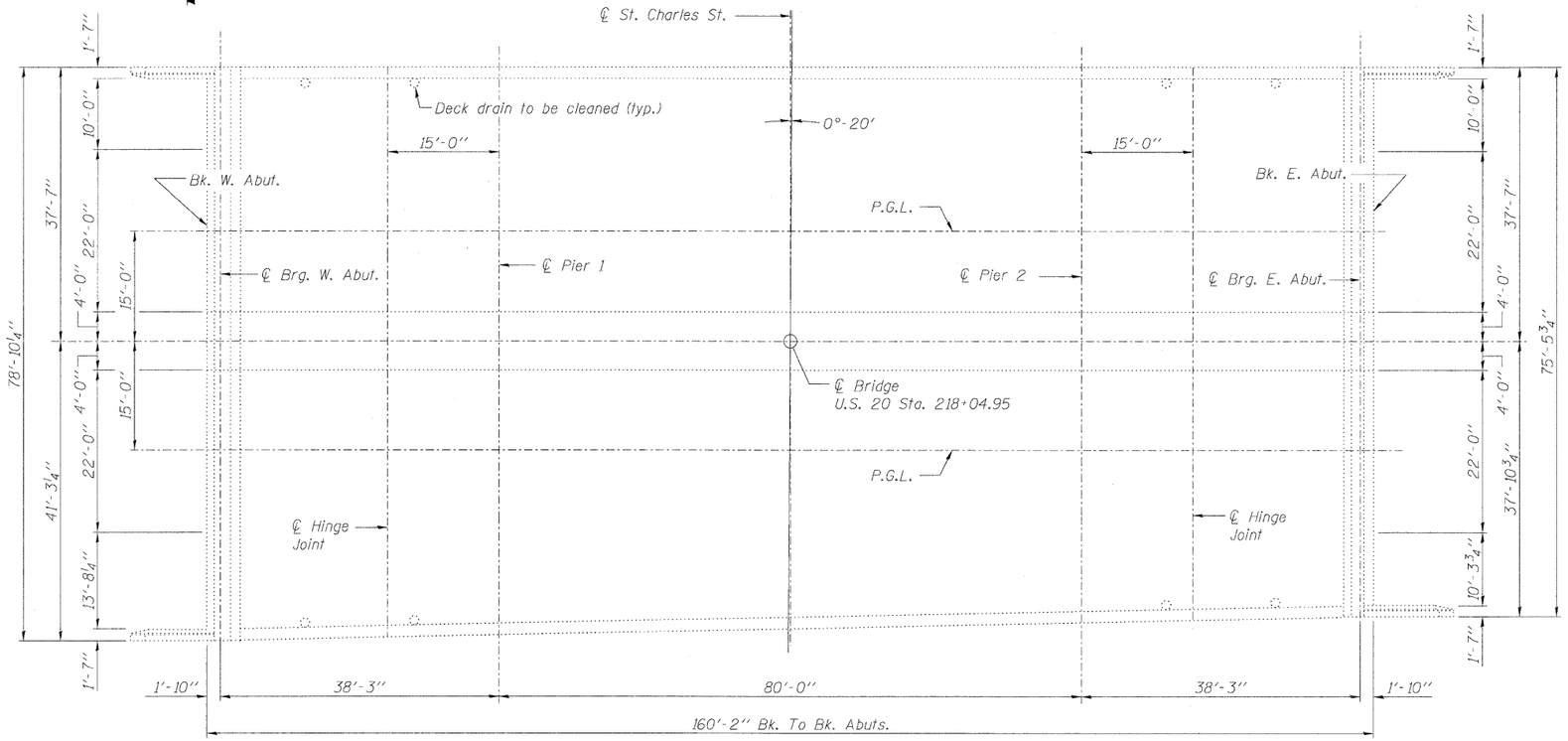
fc = 1,400 psi
fs = 20,000 psi (Reinforcement)
fs = 18,000 psi (Structural Steel)

LOADING HS 20

(Original Construction)

DESIGN SPECIFICATIONS

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



PLAN

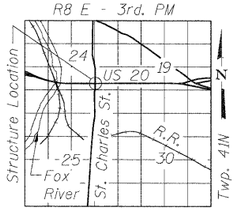
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Floor Drains to be Cleaned	Each	8	-	8
Silicone Joint Sealer, 2 3/4"	Foot	79	-	79
Silicone Joint Sealer, 1 3/4"	Foot	76	-	76
Silicone Joint Sealer, 1"	Foot	155	-	155
Deck Slab Repair (Full depth, Type I)	Sq. Yd.	0.7	-	0.7
Deck Slab Repair (Full depth, Type II)	Sq. Yd.	79.1	-	79.1
Deck Slab Repair (Partial)	Sq. Yd.	100.4	-	100.4
Protective Shield	Sq. Yd.	658	-	658

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
81-5991
CHATHAM
STATE OF ILLINOIS

Michael J. Haley 3-24-2011

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



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
US 20 OVER ST. CHARLES STREET
FAP RTE 345 - SECTION 8R-1-RS-4
KANE COUNTY
STATION 218+04.95
STRUCTURE NO. 045-0006

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	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. 045-0006
SHEET NO. 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE	124	84
		CONTRACT NO. 60M46		
	ILLINOIS	FED. AID PROJECT		