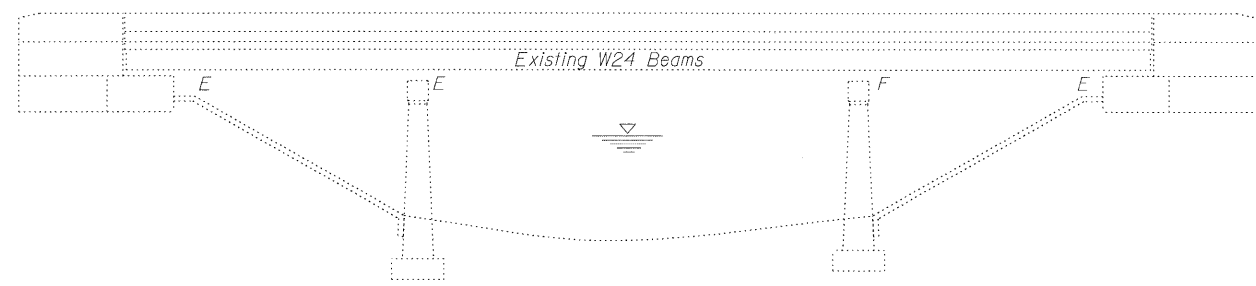


Existing Structure: S.N. 016-0217 built in 1959 as F.A. Route 6, Section 8-RB-1 at Station 240+83.50. In 1986, the bridge was widened, concrete overlay was placed, expansion joints reconstructed, bearings replaced and substructure was rehabilitated and widened. Structure consists of a three span steel WF beam bridge with 119'-0" back-to-back abutments, out-to-out deck width of 75'-2", solid wall piers on pile footings and pile supported stub 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

INDEX OF SHEETS

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

SCOPE OF WORK

1. Replace the neoprene abutment joints with polymer concrete and Silicone Joint Sealer.
2. Repair deck slab.
3. Repair substructure and slope wall.

DESIGN STRESSES

FIELD UNITS (New Const.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (Existing)

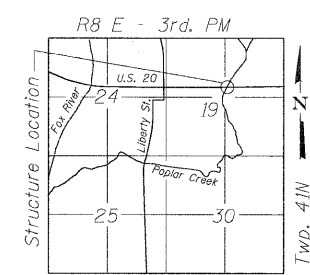
$f_c = 1,400$ psi (Superstructure & Substructure)
 $f_s = 20,000$ psi & 24,000 psi (Reinforcement)
 $f_s = 18,000$ psi & 20,000 psi (Structural Steel)

LOADING HS 20

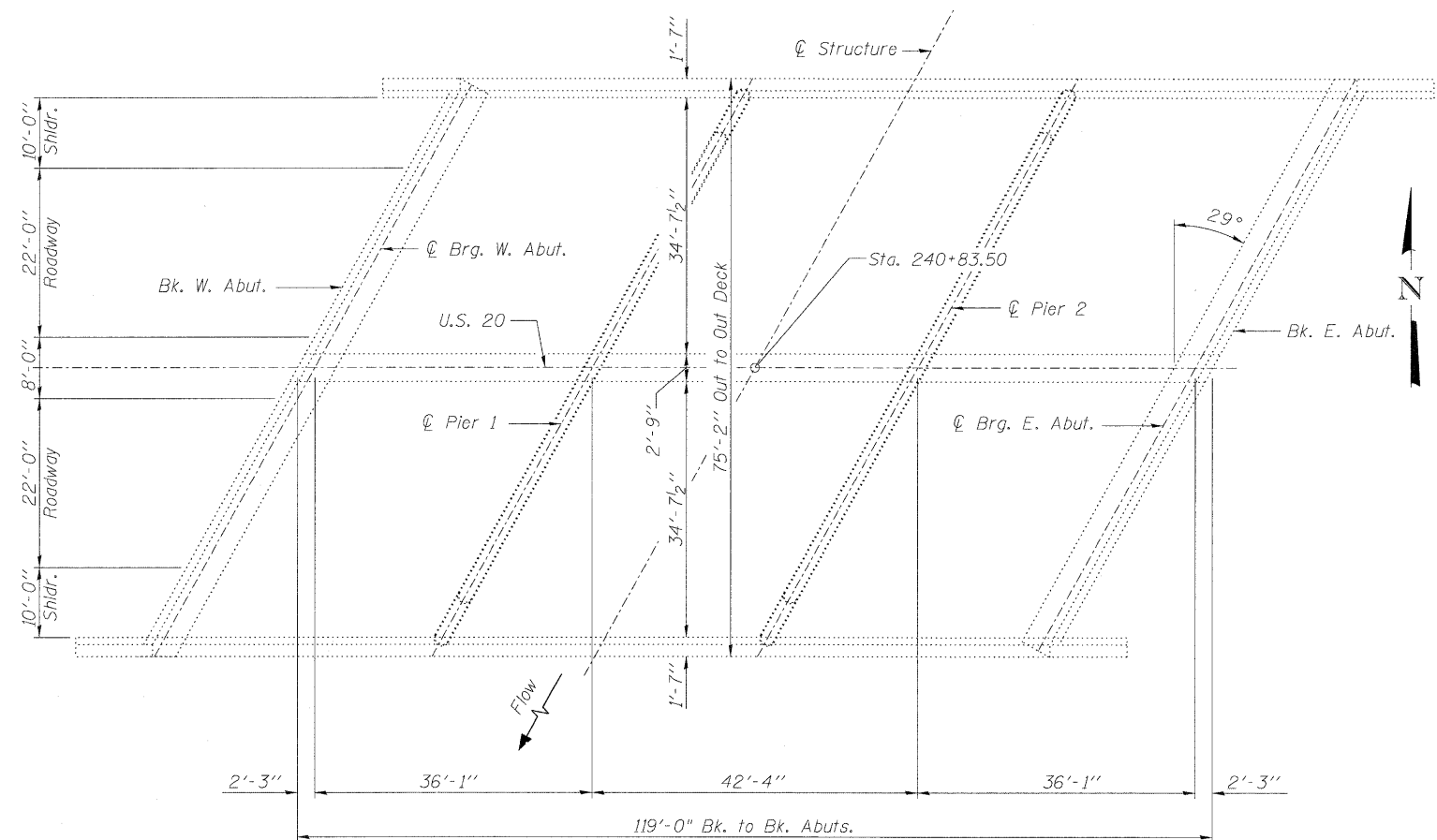
(Original Construction)

DESIGN SPECIFICATIONS

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



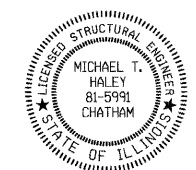
LOCATION SKETCH



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A3	Ton	-	12	12
Silicone Joint Sealer, 2"	Foot	167	-	167
Polymer Concrete	Cu. Ft.	11.4	-	11.4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13.3	-	13.3
Deck Slab Repair (Partial)	Sq. Yd.	50.8	-	50.8
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	6	-	6
Slope Wall 6 inch	Sq. Yd.	-	26.4	26.4



Michael J. Haley
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012
Date 3-24-2011

**GENERAL PLAN AND ELEVATION
US 20 OVER POPLAR CREEK
FAP RTE 345- SECTION 8R-1-RS-4
COOK COUNTY
STATION 240+83.50
STRUCTURE NO. 016-0217**