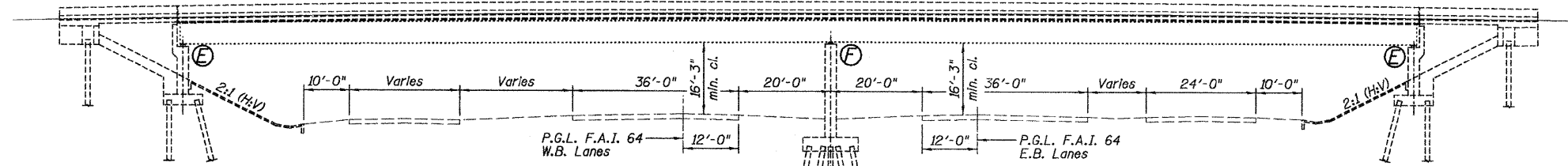


Existing Structure: Structure No. 082-0261, built in 1979 as Section 82-2HB-1. The superstructure consists of a continuous two span composite welded plate girder bridge with a 7 1/2" concrete slab. The substructure consists of concrete filled vaulted abutments supported by concrete piles and a concrete solid stem pier supported by timber piles. The back-to-back of approach bent dimension measures 311'-10" and the out-to-out of deck dimension measures 43'-2". The span lengths are 141'-0" and 127'-0" (C bearing to C bearing) with a 2°11'37" left forward skew. One lane of traffic will be maintained utilizing stage construction.

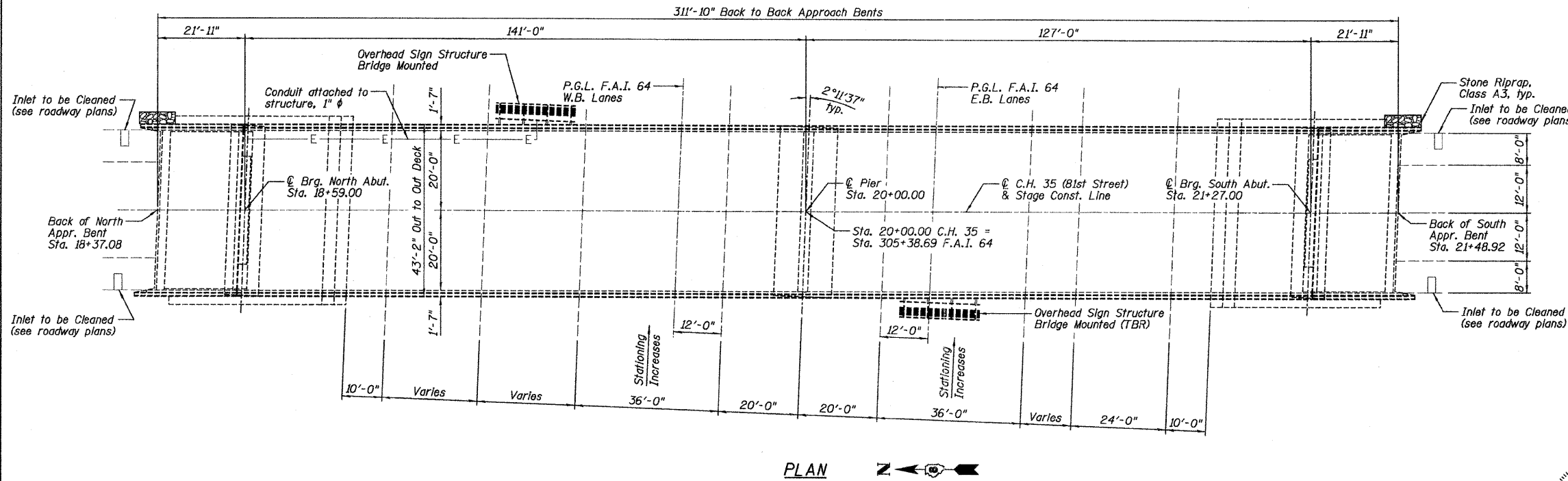
**SCOPE OF WORK**

- 1.) Maintain one lane of traffic according to the Stage Construction cross sections.
- 2.) Formed concrete repair all areas indicated on the plans.
- 3.) Apply Polymer Modified cement mortar to all areas indicated on the plans.
- 4.) Remove and replace Neoprene Expansion Joints with silicone Joint sealer.
- 5.) Remove and replace the parapet joint sealer.
- 6.) Erect a protective shield system beneath the South span indicated on the plans.
- 7.) Remove the existing bridge mounted overhead sign structure on the South span.
- 8.) Install a hot-mix asphalt surface course with a waterproofing membrane to the deck.
- 9.) Seal all slopewall cracks indicated on the plans.
- 10.) Fill eroded areas with Stone Riprap, Class A3 as indicated on the plans.
- 11.) Clean shoulder inlets in each quadrant of the bridge.



**INDEX TO SHEETS**

SHEET NO.	TITLE
C1	GENERAL PLAN AND ELEVATION
C2	GENERAL DATA
C3	STAGE CONSTRUCTION / MISCELLANEOUS DETAILS
C4	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
C5	DECK REPAIR
C6	EXPANSION JOINT REPAIR
C7	NORTH ABUTMENT REPAIR
C8	SOUTH ABUTMENT REPAIR
C9	NORTH SLOPEWALL REPAIR AND RIPRAP PLACEMENT
C10	SOUTH SLOPEWALL REPAIR AND RIPRAP PLACEMENT



**LOADING HS20-44**

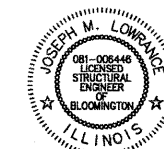
Original Construction  
 Allow 25#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

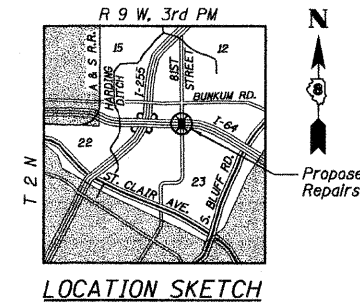
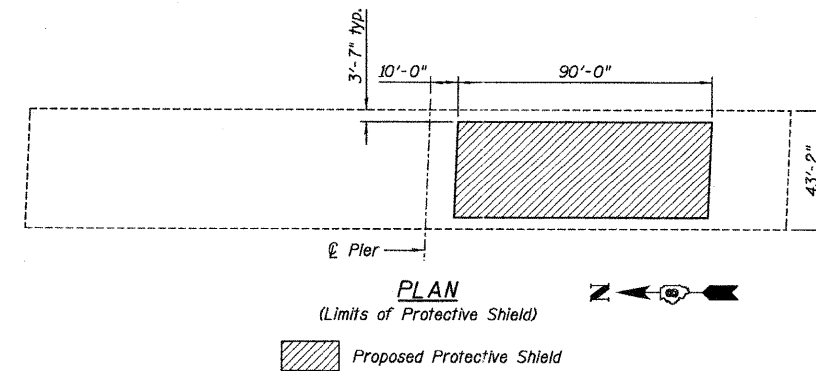
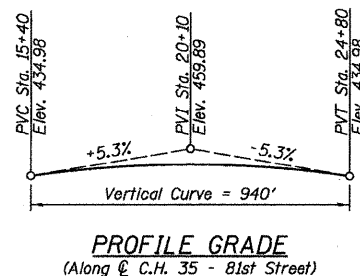
Original Construction  
 1977 AASHTO AND 1978 Interim specifications

**DESIGN STRESSES**

Original Construction  
 f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)  
 fy = 36,000 to 50,000 psi (Structural Steel)



Joseph M. Lowrance  
 Date 11-17-11  
 JOSEPH M. LOWRANCE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-006446  
 Exp. Date 11/30/12



**GENERAL PLAN AND ELEVATION**  
**81ST STREET (C.H. 35) OVER**  
**INTERSTATE 64**  
**F.A.I. 64 - SEC 82-(3,4)RS**  
**ST. CLAIR COUNTY**  
**STA. 305+38.69**  
**STRUCTURE NO. 082-0261**

**Farnsworth**  
 GROUP, INC.  
 2705 McDraw Drive  
 Bloomington, Illinois 61704  
 309/863-8435, 309/863-1971 fax

DESIGNED - JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

DATE - 11/17/11

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. C1 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-(3,4)RS	ST. CLAIR	167	156
				CONTRACT NO. 76415
ILLINOIS FED. AID PROJECT				