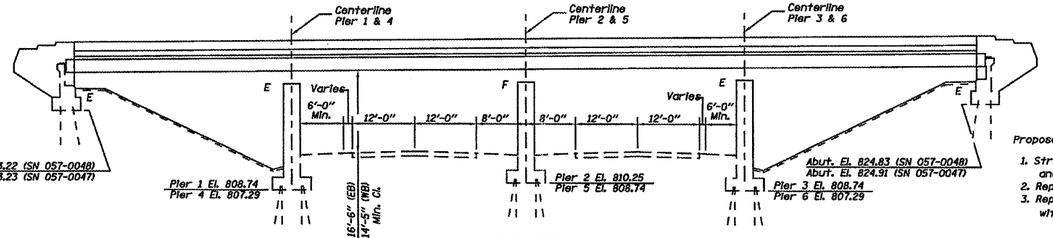
Benchmark: BM #1 on center top of slope drain headwall at Sta.48+60, 50' west of edge of southbound pavement Elev. = 815.96

Existing Structure: The existing dual four-span structures were built in 1963 as F.A.I. Route 74. The 7 inch R.C. slabs were supported on W30 X Beams. The existing structures are 181'-2" Back to Back of Abutments and vary from 52'-4 9/16" to 54'-7 1/16" Out to Out of Decks.

In 1991, the concrete deck was replaced and the substructure was repaired.

See proposed work on this sheet for description of proposed improvements.

Traffic to be maintained using Stage Construction.



FAI 74	•	MCLEAN	160	100

Sheet 1 of 4 Sheets

• 57-20(1) RS-2 & (57-4,5,6)RS-3

CONTRACT NO. 70505

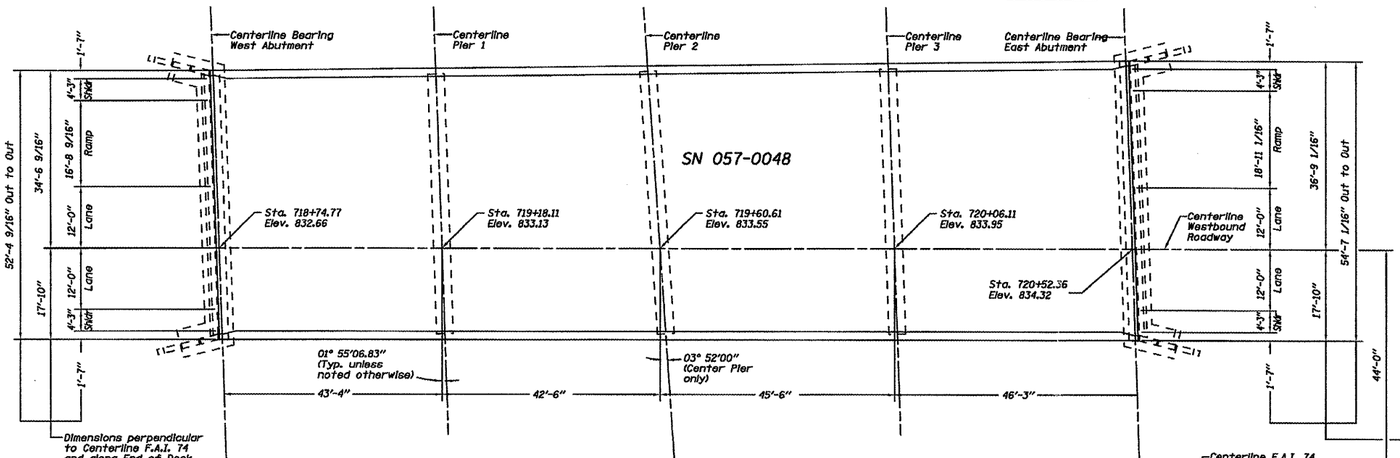
Proposed work

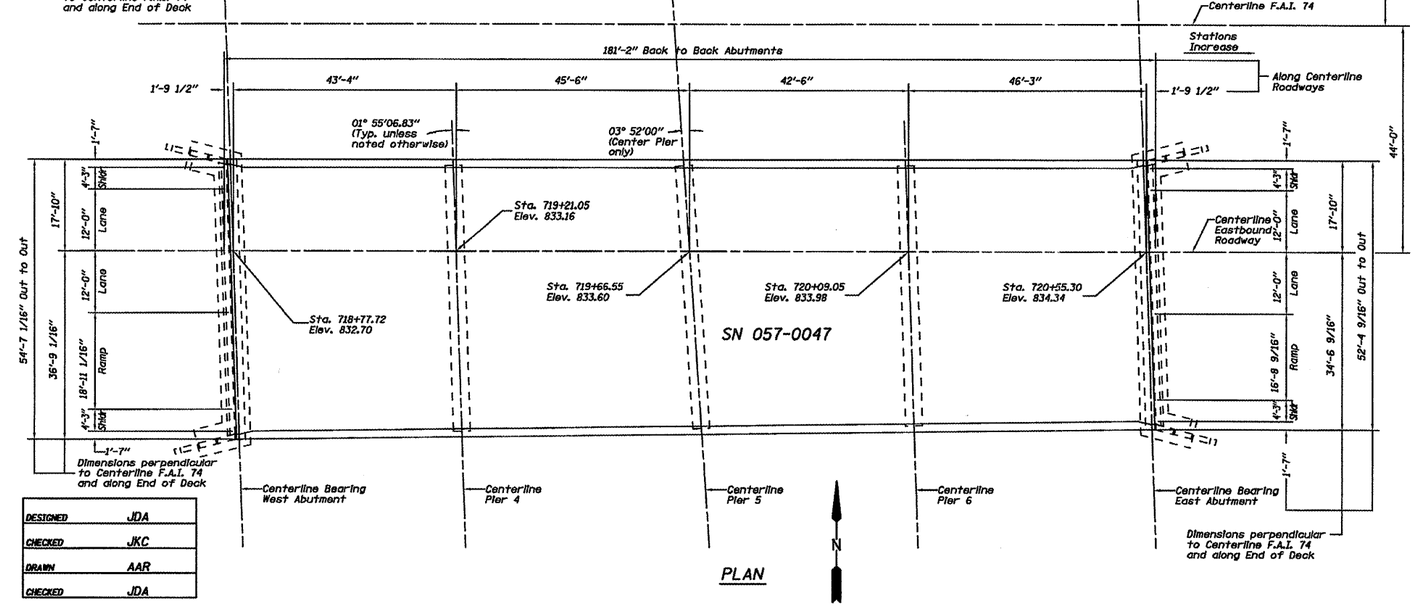
1. Structural concrete repair at piers 3 and 6, east abutment of EB structure and southeast wingwall and abutment of WB structure
2. Repair broken concrete area at east and west slopewalls of EB structure.
3. Replace expansion bearings at all four abutments with elastomeric bearings.

TOTAL BILL OF MATERIALS

Item	Unit	Super.	Sub.	Total
STRUCTURAL CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	--	94	94
JACK AND REMOVE EXISTING BEARINGS	EACH	36	--	36
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	36	--	36
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	6,800	--	6,800
SLOPE WALL REMOVAL	SQ YD	--	7.1	7.1
SLOPE WALL, 4 INCH	SQ YD	--	7.1	7.1
ANCHOR BOLTS, 1"	EACH	72	--	72

ELEVATION





PLAN

DESIGNED	JDA
CHECKED	JKC
DRAWN	AAR
CHECKED	JDA

DESIGN STRESSES (EXISTING CONSTRUCTION)

Concrete: f'c = 3,500 psi

Reinforcement: fy = 60,000 psi (Superstructure)
fs = 20,000 psi (Substructure)

Structural Steel: fy = 36,000 psi
AASHTO M-183
Existing Structural Steel

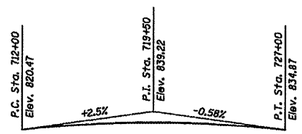
Design Loading: H20-S16-44 and Alternate

Design Specifications: AASHTO (1983) plus 1984 thru 1988 Interims. (Superstructure)
AASHTO 1961 (Substructure)

DESIGN STRESSES (NEW BEARING CONSTRUCTION)

Loading HS20-44

Design Specifications: AASHTO 2002 and Interim



PROFILE GRADE F.A.I.-74

General Notes

Field welding of construction accessories will not be permitted to beams or girders.

Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

All structural steel shall conform to AASHTO Classification M-270 Gr.36, unless otherwise noted.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surfaces Areas of Existing Steel Structures".

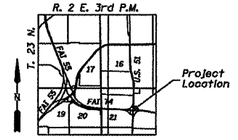
All structural steel shall be shop painted with inorganic zinc rich primer per AASHTO M 300, Type I. Cost included with Furnishing and Erecting Structural Steel.

12/23/09
DATE

JAMES C. RICHARD
LICENSED STRUCTURAL ENGINEER NO. 081-004655
STATE OF ILLINOIS
expires 11-30-2010

SIGNATURE

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001117



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
F.A.I. ROUTE 74 OVER U.S. 51
SECTION 57-20(1) & (57-4,5,6)RS-3
MCLEAN COUNTY
SN 057-0047 (EB)
SN 057-0048 (WB)
STA. 719+63.58