

Existing Structure:

The existing structure, built in 1963 and widened in 1974, is a four span rolled beam bridge with spill-through abutments on steel piles and hammerhead piers on timber piles. 192'-8" back to back of abutments, varies 50'-11³/₄" to 54'-10" out to out.

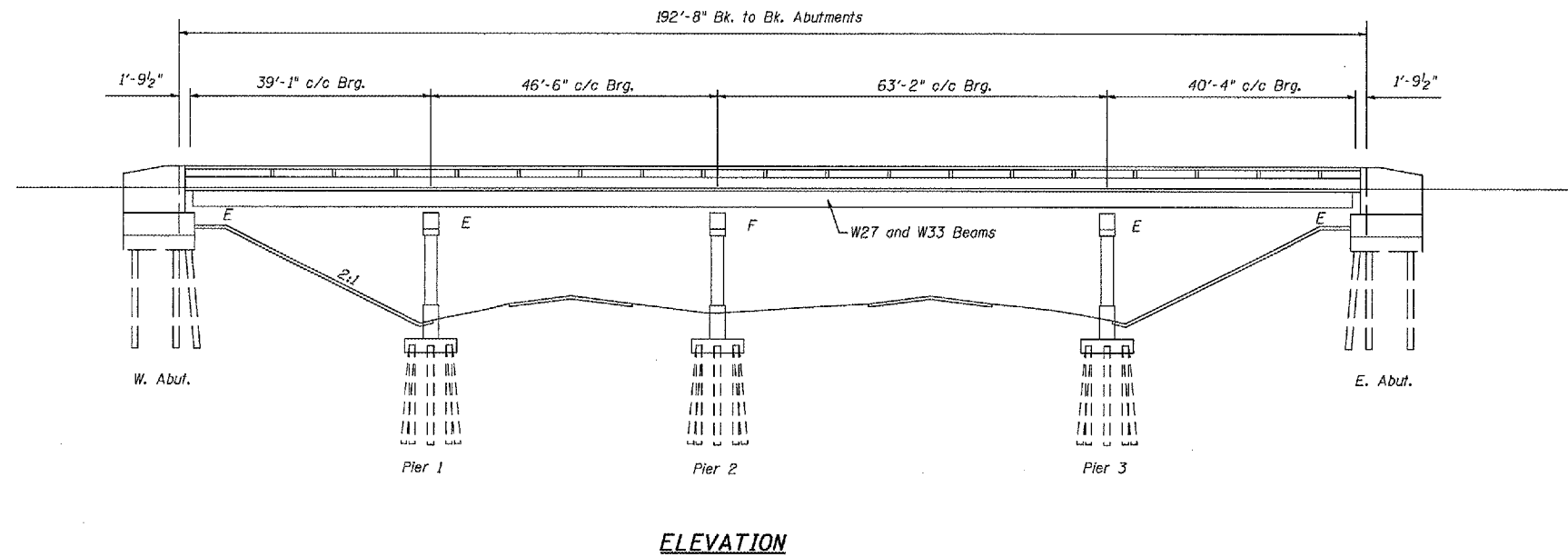
Proposed Improvements:

Work to be completed at this bridge includes: installation of temporary protective shield, deck patching, expansion joint replacement, waterproofing and wearing surface replacement, and remove and replace portions of the existing deck and parapet.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 72659			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
	**	SANGAMON	246 210
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
* F.A.I. 55, F.A.I. 72, F.A.P. 666			
** D6 Interstate R5, BR, M CAB 2008			

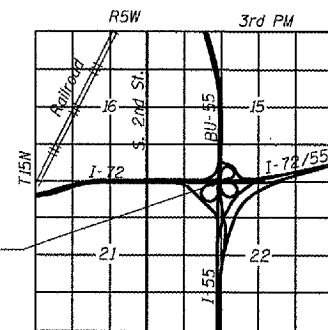
Sheet No. 1
of 7 Sheets



ELEVATION

DESIGN STRESSES

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



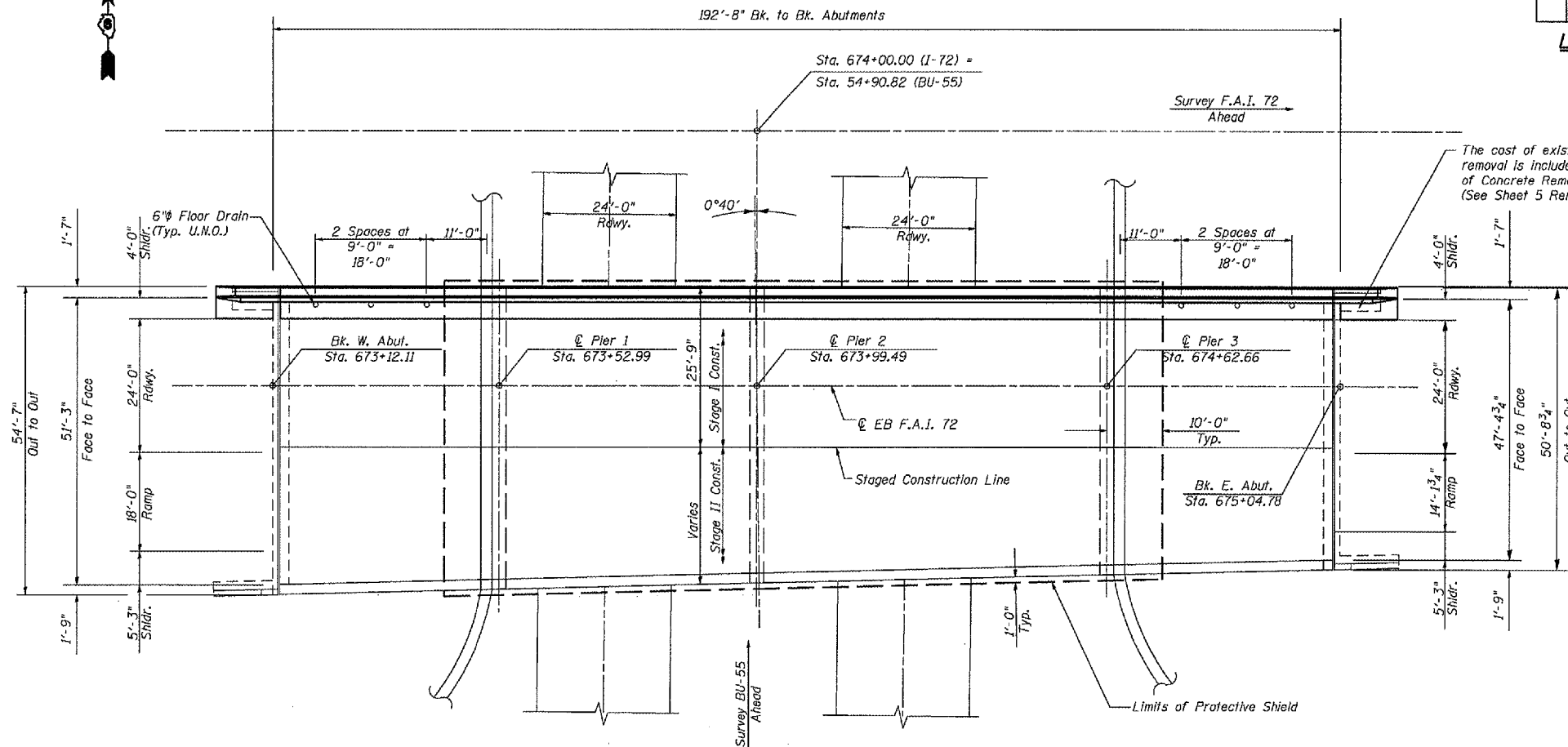
LOCATION SKETCH

GENERAL NOTES

- Work will be completed utilizing stage construction with two lanes of EB I-72 remaining open to traffic. See Traffic Control Plan for details.
- Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.
- Protective Coat shall not be applied to surfaces to which waterproofing membrane system is applied.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
- As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that can not be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL (S.N. 084-0077)

Item	Unit	Quantity
Polymerized Hot-Mix Asphalt Surface	Ton	86.4
Course, Mix "E", N105		
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	1000
Concrete Removal	Cu. Yd.	50.9
Protective Shield	Sq. Yd.	793
Floor Drains	Each	6
Concrete Superstructure	Cu. Yd.	56.1
Protective Coat	Sq. Yd.	90
Reinforcement Bars, Epoxy Coated	Pound	14110
Waterproofing Membrane System	Sq. Yd.	1027
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.6
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13.2
Deck Slab Repair (Partial)	Sq. Yd.	54.6
Dowel Bars	Each	18
Silicone Joint Sealer, 2 3/4"	Foot	106



PLAN

INDEX OF SHEETS

- General Plan and Elevation
- Typical Bridge Sections
- Temporary Concrete Barrier Details
- Superstructure
- Superstructure Details
- Expansion Joint Details
- Deck Patching Details



Peter B. Boyles
Peter B. Boyles, P.E., S.E.
Structural Engineer License No. 081-006042
Expiration Date: 11/30/2008

GENERAL PLAN & ELEVATION
F.A.I. 55, F.A.I. 72, F.A.P. 666
Section D6 Interstate R5, BR, M CAB 2008
Sangamon County
EB I-72 Over BU-55
S.N. 084-0077