BENCHMARK: Chiseled "□" on NE Wing of Existing Structure, Station 897+00. Elev. 439.29

EXISTING STRUCTURE: SN 080-0009 was originally built in 1983 as Section 123 BR-3. The superstructure consists of 3 continuous spans of W27 rolled steel beams on closed abutments and solid shaft piers. The back-to-back abutments dimension measures 137'-0" while the out-to-out width measures 39'-2". The existing expansion joints shall be removed and replaced. Traffic to be maintained utilizing stage construction.

No salvage.

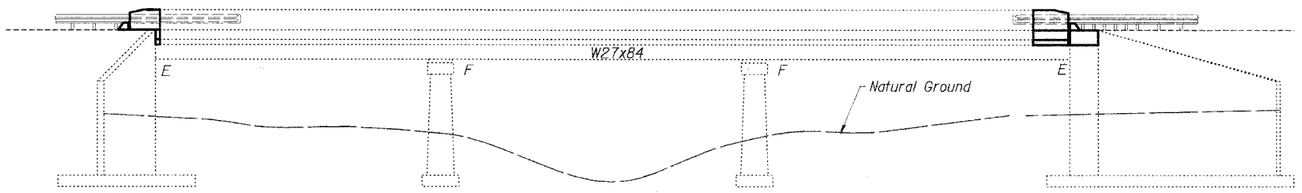
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* D-7 JOINT REPAIRS 2006-3

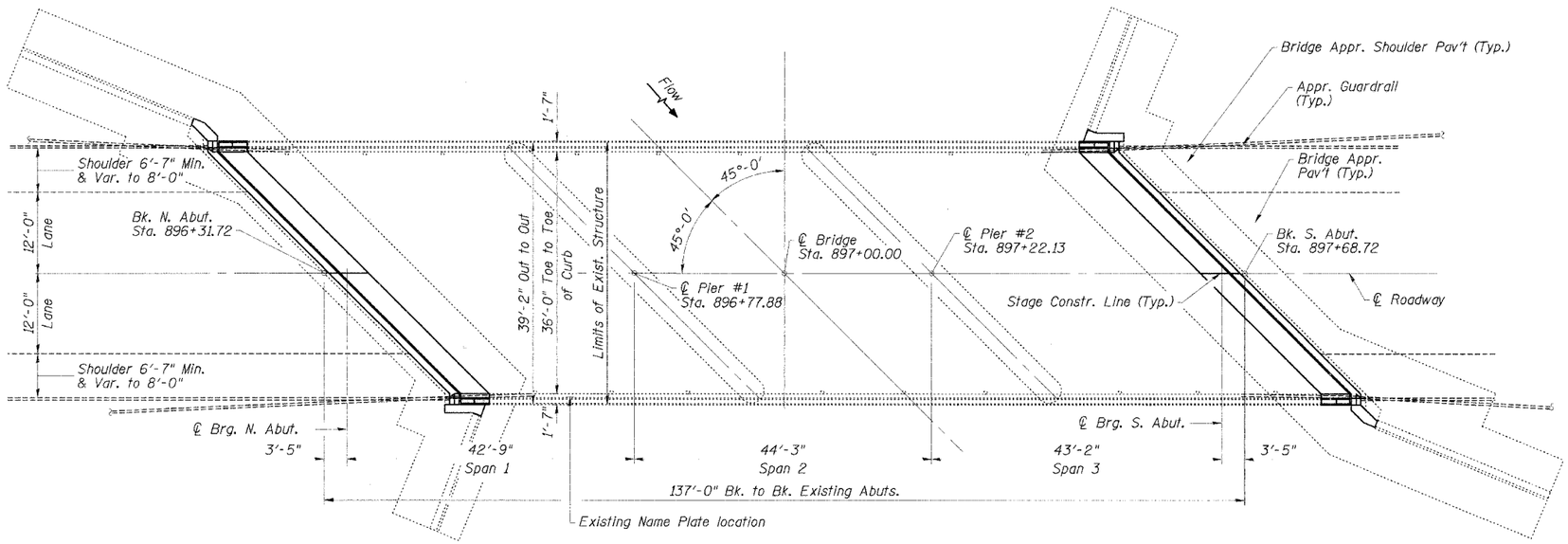
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 116	*	RICHLAND	31	6
STA		TO STA		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

DWG. NO. 1 OF 6

CONTRACT NO. 74120



ELEVATION



PLAN

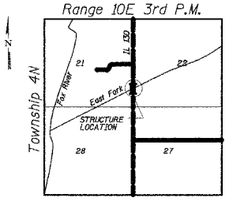
STRUCTURE INDEX OF SHEETS

GENERAL NOTES

1. Field welding of construction accessories will not be permitted to beams or girders.
2. 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.
3. Prior to pouring the new concrete deck, all loose rust, loose mill scale, and other loose potentially detrimental foreign material shall be removed from the surfaces of the beams or girders in contact with concrete. The cost of this work will be included in the pay item covering removal of the existing concrete. All heavy rust and other tightly adhered potentially detrimental foreign matter shall also be removed from the surfaces of the beams or girders in contact with concrete. Tightly adhered paint may remain unless otherwise noted. This removal shall be accomplished by methods that will not damage the steel. The cost of this work will be paid for according to Article 109.04.
4. All Construction joints shall be bonded.
5. Existing reinforcement bars shall be cleaned, straightened, and incorporated into the new construction as noted. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system (cost included in Concrete Removal).
6. To facilitate the new construction, removal and reinstallation of guardrail sections attached to the structure will be required. All existing embedded anchors that are within the concrete removal area shall be cleaned and incorporated into the new construction or new approved alternates shall be supplied and installed. Cost of this work shall be included in Concrete Superstructure.
7. Areas disturbed by Structure Excavation operations shall be seeded with Class 3 mixture according to Section 250 of the Standard Specifications and as directed by the Engineer. Erosion Control Blanket shall be placed on all seeded areas. Seeding and Erosion Control Blanket will not be measured for payment but shall be considered included in the Structure Excavation pay item.
8. The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd	12.6	7.7	20.3
Structure Excavation	Cu. Yd.		5	5
Neoprene Expansion Joint 2"	Foot	106		106
Concrete Superstructure	Cu. Yd.	20.3		20.3
Protective Coat	Sq. Yd.	54		54
Reinforcement Bars, Epoxy Coated	Pound	1505	1130	2635
Bar Splicers	Each	20	10	30



LOCATION SKETCH

STATE OF ILLINOIS
RICHARD D. RYAN
No. 4647
REGISTERED STRUCTURAL ENGINEER
EXPIRES 11-30-07
Richard D. Ryan
SIGNATURE
02/09/06
DATE

DESIGN SPECIFICATIONS
2002 AASHTO
DESIGN STRESSES

EXIST. CONSTRUCTION
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (M 223, Grade 50) (Struct.)
fy = 36,000 psi (M 183) (Struct.)
fy = 50,000 psi (M 222)

NEW CONSTRUCTION
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

ESCA CONSULTANTS, INC.		
DESIGNED BY:	MTD	11/05
DRAWN BY:	HAG	11/05
CHECKED BY:	MTD	11/05
APPROVED BY:	RDP	1/06

GENERAL PLAN
IL 130 OVER EAST FORK CREEK
FAP RTE 116 (IL 130)
D-7 JOINT REPAIRS 2006-3
RICHLAND COUNTY
STATION 897+00.00
STRUCTURE NO. 080-0009