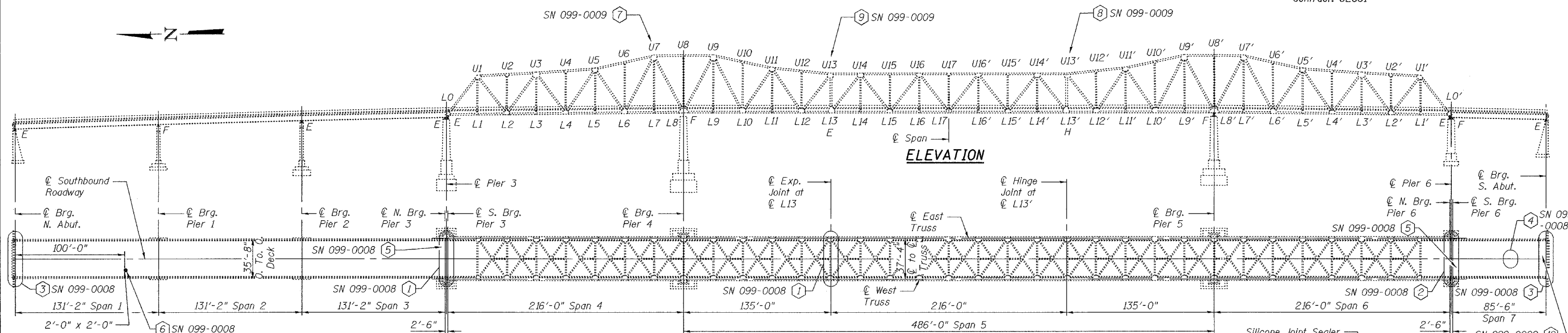


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Will	16	5
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

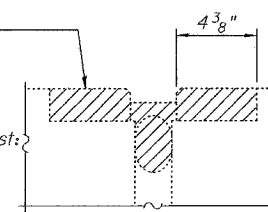
Contract: 62861

SHEET NO. 1  
11 SHEETS



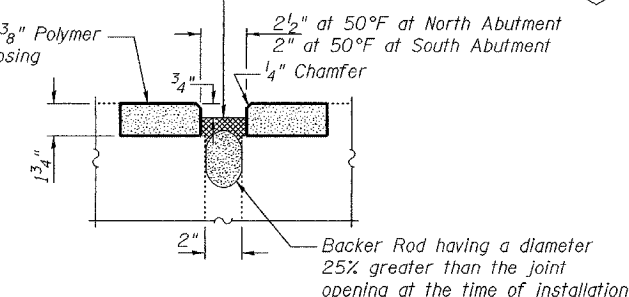
PLAN

Existing Silicone Joint Seal with polymer concrete nosing to be removed and replaced. Locations and length of replacement of the polymer concrete are measured from the  $\text{C}$  of Roadway to the West: 12'-0" at the North Abutment and 6'-0" at the South Abutment. Silicone joint seal to be replaced out to out of the bridge.



EXISTING SILICONE JOINT SEAL AT NORTH AND SOUTH ABUTMENTS

SILICONE JOINT SEAL AT NORTH AND SOUTH ABUTMENTS



SCHEDULE OF REPAIRS

SN 099-0008  
South Bound

- 1 Remove Existing Neoprene Joint and Replace with 6" Modular Expansion Joint.
- 2 Remove Existing Neoprene Joint and Replace with Strip Seal Exp. Joint.
- 3 Repair Existing Silicone Joint Seal.
- 4 Remove and Replace angle on 3rd cross-frame from Pier 6, on the westside of Girder 4. Cost included with Structural Steel Repair
- 5 Remove and Replace diaphragms between Girders 1 and 2, Span 3 at Pier 3. Between Girders 4 and 5, and 5 and 6 Span 7 at Pier 6. Cost included with Structural Steel Repair
- \* 6 Partial Depth Patching

SN 099-0009  
North Bound

- 7 Replace missing 1/2" x 1/2" tapered washers on C15x33.9 and bolts at U7E and U7W. (18 Required). Cost included with Structural Steel Repair
- 8 Replace missing rivets with HS Bolts at U13'E. (9 Required) Cost included with Structural Steel Repair
- 9 Replace missing rivets with HS Bolts at U13'E (3 Required) Cost included with Structural Steel Repair
- 10 Replace missing and loose bolts with HS Bolts at 1st cross-frame from South Abutment at Girder 3. Cost included with Structural Steel Repair

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.  
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 bid for the work.  
The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.  
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 Surface Areas of Existing Steel Structures".  
Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.  
Joint openings shall be adjusted according to Article 503.10(c) of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F. Fasteners shall be high strength bolts. Bolts 3/4"  $\phi$ , open holes 13/16"  $\phi$ , unless otherwise noted.  
The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Gray, Munsell No. 5B 7/1. See Special Provision "Cleaning and Painting New Metal Structures".

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	28.9
Concrete Superstructure	Cu. Yd.	33.7
Structural Steel Repair	Pound	820
Polymer Concrete	Cu. Ft.	2.0
Silicone Joint Sealer (2 1/2")	Foot	36
Silicone Joint Sealer (2")	Foot	36
Strip Seal Expansion Joint Assembly	Foot	36
Reinforcement Bars, Epoxy Coated	Pound	10800
Modular Expansion Joint 6"	Foot	72
Deck Slab Repair (Partial)	Sq. Yd.	0.5
Bar Splicers	Each	174

PLAN AND ELEVATION  
F.A.I. RT.55  
WILL COUNTY  
SN 099-0008 AND 099-0009

L 3 1/2" x 5" x 3/8" x 4'-10 1/2"  
Field drill to match Girder and Cross-Frame

Reuse existing Fill  $\text{C}$ .  
Detach support and reattach existing cross-frame.

PARTIAL ELEVATION  
GIRDER 4 SPAN 7

(Looking East)

Repair 4

\*Removal of 3/8" epoxy overlay in this area is included with Deck Slab Repair (Partial). New concrete shall be placed flush with the top of the existing overlay around repaired area.

DESIGNED: *Alvian H. Kelly*  
CHECKED: *Alvian H. Kelly*  
DRAWN: *[Signature]*  
CHECKED: *A.H.*

Jan. 24, 2005  
EXAMINED: *John A. Morris*  
PASSED: *Robert E. Adams*

