

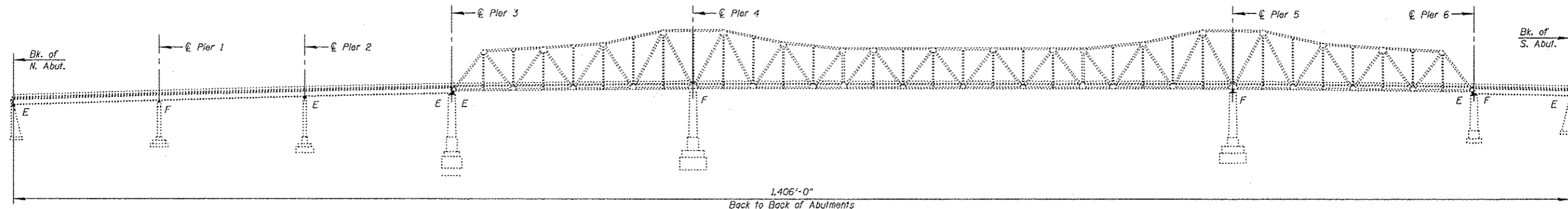
EXISTING STRUCTURE:

S.N. 099-0008 (S.B.) & S.N. 099-0009 (N.B.) built in 1956 as F.A. Rte. 77, Sec. 87B, D-E-F-P at Sta. 38+552.573. Each structure consists of a three span cantilever truss with a simple span and a three span riveted girder approach supported on reinforced concrete spill thru abutments and reinforced concrete frame piers. The truss span and approach span decks were replaced in 1978. Truss link bearings at Piers 3 and 6 on Southbound structure were replaced in 1994. Expansion joints were replaced and truss grid deck was overlaid in 1997 Interim Repairs. In 1999, repairs included replacement of expansion joints, floor drain extensions, plugging of floor drains, thin polymer overlay, cover plate retrofits, installation of slope protection system and pin & link bearing refurbishing. In 2005 structural steel repairs and expansion joint replacement was performed. In 2010 partial depth patching was performed on the overlay in the truss spans.

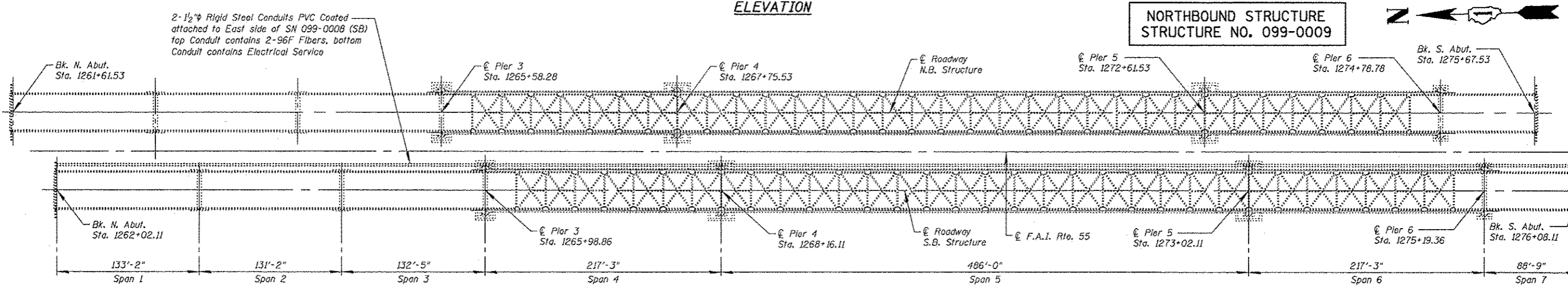
One bridge shall be closed while repair work is being performed, with traffic running northbound & southbound on the opposite bridge. Staging of the traffic on the open bridge will be aided by median cross-overs at the north and south ends of the bridge. No salvage.

SCOPE OF WORK:

1. Reconstruct expansion joints at piers 3 & 6 and panel point L13.
2. Remove and replace silicone joint sealer at abutments and nine truss span locations.
3. Perform full depth deck repairs.
4. Perform parapet repairs.
5. Replace deck drains in truss spans.
6. Perform structural steel repairs.
7. Scarify and place latex concrete overlay on approach spans.
8. Remove and replace HMA overlay with waterproofing system on truss spans.
9. Perform structural repair of concrete on piers & abutments.



ELEVATION



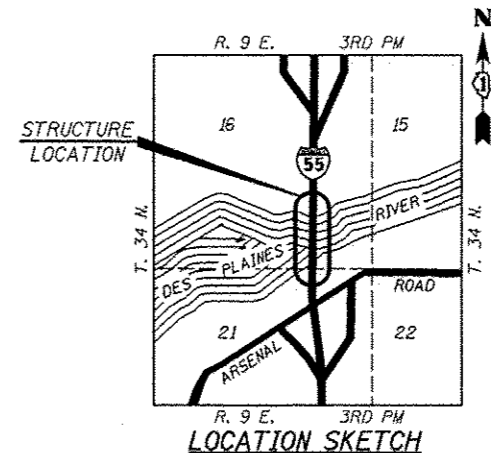
PLAN

**SOUTHBOUND STRUCTURE
STRUCTURE NO. 099-0008**

**NORTHBOUND STRUCTURE
STRUCTURE NO. 099-0009**

DESIGN STRESSES
 $f'_c = 3,500 \text{ psi}$
 $f_y = 36,000 \text{ psi (Structural Steel)}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$

BRIDGE INSPECTORS MUST HAVE ACCESS TO THESE STRUCTURES TO PERFORM THEIR SCHEDULED NBIS INSPECTION IN AUGUST OF 2013



Bhadresh N. Shah
 BHADRESH N. SHAH JAN. 16, 2013
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. No. 081-004476
 EXPIRES: 11-30-14

**GENERAL PLAN & ELEVATION
 I-55 OVER DES PLAINES RIVER
 F.A.I. RTE. 55
 SEC. 87 (B,D,E,F & P) I-7
 WILL COUNTY
 STATION 1268+84.82
 STRUCTURE NO. 099-0008 (S.B.)
 STRUCTURE NO. 099-0009 (N.B.)**

FILE NAME = I:\103103.1-55 over Des Plaines Structural\CADD Sheets\0160662-01-SPE.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME = IDOT	DESIGNED - J.C.N./B.N.S./J.W.	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - B.N.S./J.W.	REVISED -
PLOT DATE = 1/17/2013	DRAWN - F.M.	REVISED -
	DATE - JANUARY 16, 2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. 51 OF 560 SHEETS

F.A.I. RTE. 55	SECTION 87B, 0-BR-1	COUNTY WILL	TOTAL SHEETS 106	SHEET NO. 40
			CONTRACT NO. 60R62	
ILLINOIS FED. AID PROJECT				