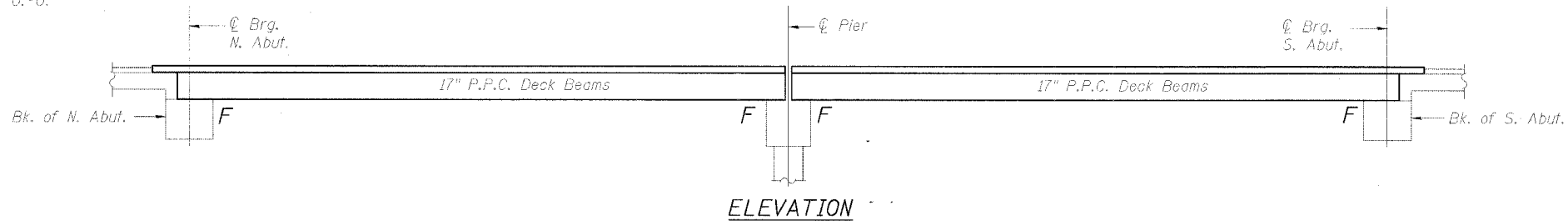


Benchmark: Chiseled box on top of parapet at S.E. corner of existing bridge. Elev. = 100.00

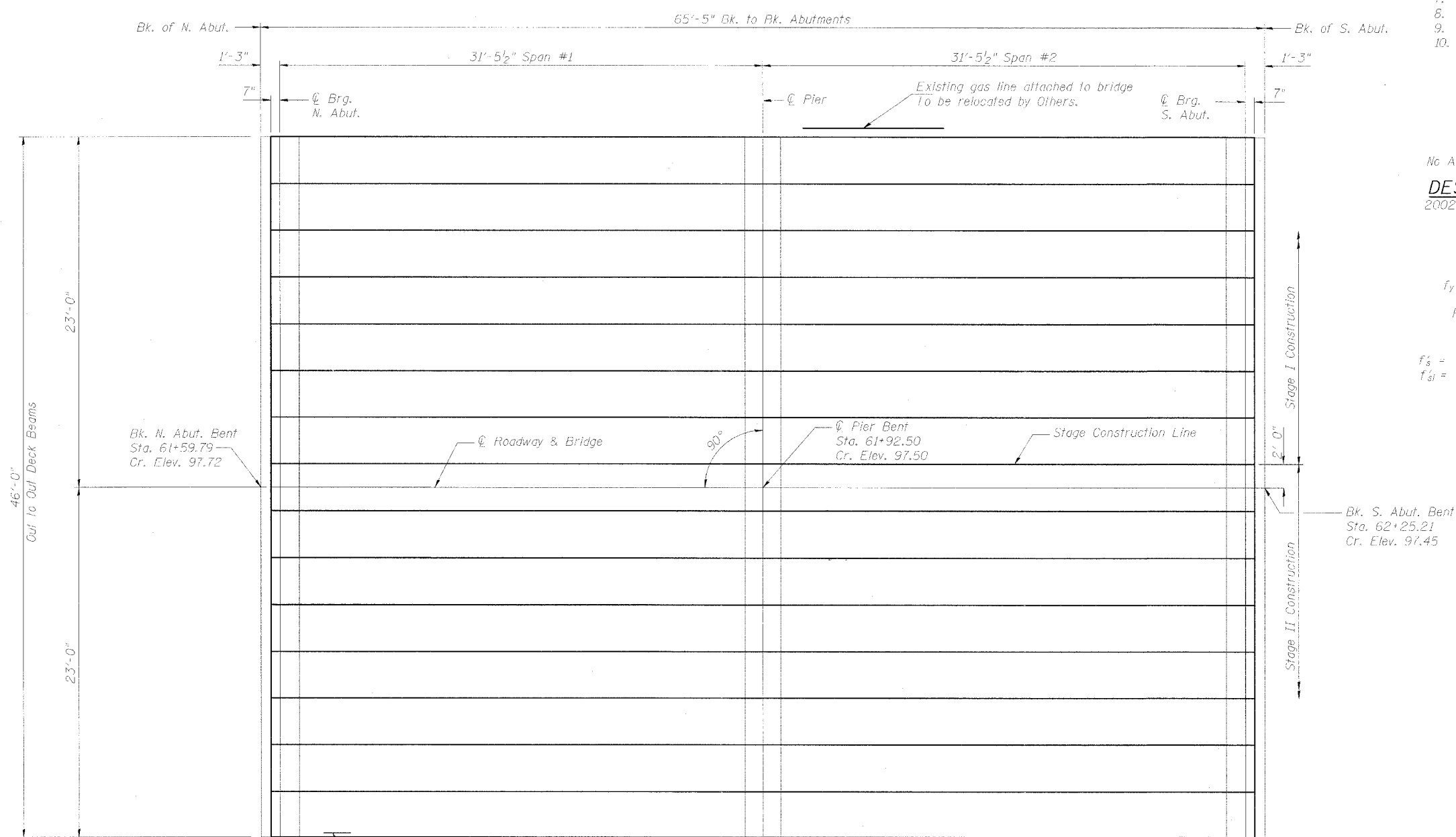
Existing Structure: No. 045-0045 built in 1967. Two span, 65'-5" Bk-Bk Abut. P.P.C. Dk. Beams 46'-0" O.-O. Concrete parapet with aluminum handrail on top. 4" CWS added in 1988.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
SA 13		Kane	27	7
SHEET NO. 1 10 SHEETS				
Contract # 60B81				



ELEVATION



PLAN

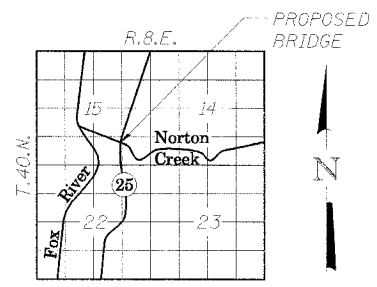
- INDEX OF SHEETS**
1. General Plan & Elevation
  2. General Notes and Total Bill of Material
  3. Stage Construction
  4. Temporary Concrete Barrier
  5. Superstructure Details - 17" Deck Beams
  6. Superstructure Details - Sections and Joint Details
  7. Rail Post Spacing and Concrete Wearing Surface
  8. Steel Railing, Type SM w/ Concrete Wearing Surface
  9. Bar Splicer Assembly Details
  10. Substructure Repairs

**LOADING HS20-44**  
No Allowance for future wearing surface  
**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

**PRECAST PRESTRESSED UNITS**  
 $f'_c = 5,000$  psi  
 $f'_{ci} = 4,000$  psi  
 $f'_s = 270,000$  psi (1/2"  $\phi$  low lax strands)  
 $f'_{si} = 201,960$  psi (1/2"  $\phi$  low lax strands)



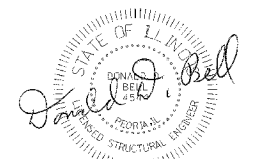
LOCATION SKETCH

**GENERAL PLAN & ELEVATION**  
S.A. 13 (IL RTE. 25)  
OVER NORTON CREEK  
S.A. RTE. 13 (F.A.S. 106)  
KANE COUNTY, STA. 61+92.50  
STRUCTURE NO. 045-0045

DESIGNED	DDB
CHECKED	LLV
DRAWN	MGM
CHECKED	DDB

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



License Expires: 11/30/08  
Date Signed: 6-4-07

**STS CONSULTANTS**  
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IL Design Firm Reg. No. 184-001518