

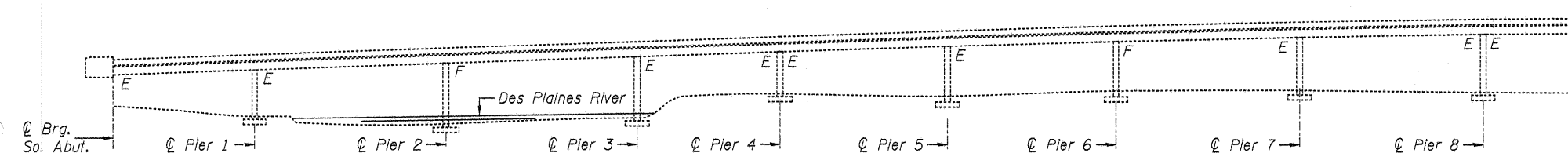
Existing Structure:  
Structure No. 016-2407 was built in 1980 as FA45, Section 462-X-BQR. Existing structure is a thirty span steel plate girder bridge on closed abutments and 29 concrete piers on spread footings. The structure measures 2737'-2" bk. to bk. abutments, and 43'-2" out to out deck. Stage construction shall be utilized to maintain traffic during construction.

No Salvage.

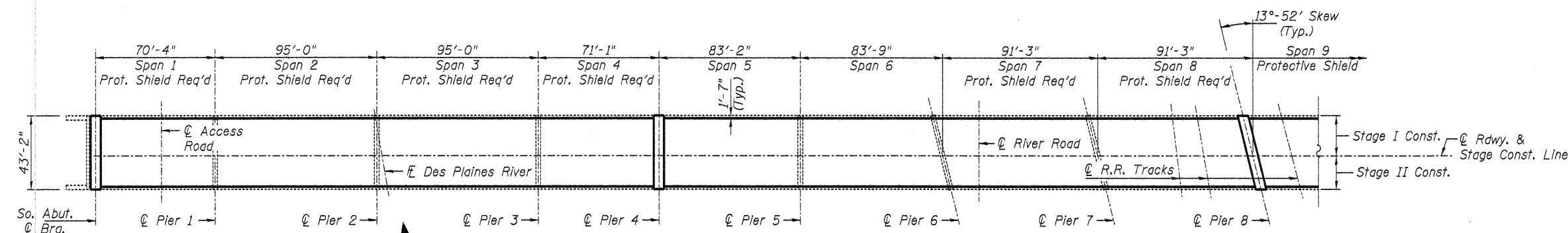
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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- 13 Preformed Joint Strip Seal
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**PARTIAL ELEVATION**

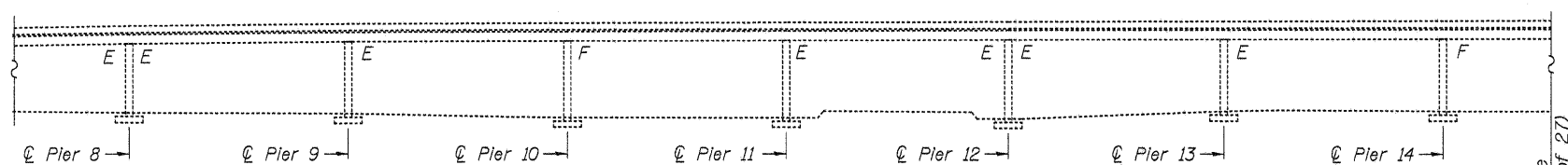


**PARTIAL PLAN**

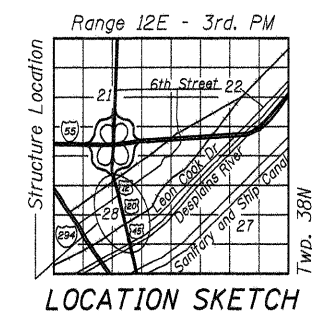
**SCOPE OF WORK**

1. Remove concrete deck and parapet adjacent to expansion joints.
2. Provide Preformed Joint Strip Seal expansion joints at abutments and Modular Expansion Joints at the piers.
3. Replace concrete deck and parapet adjacent to expansion joints.
4. Apply 1/2" scarification to deck slab.
5. Repair deck slab.
6. Place 2 1/4" latex concrete overlay on bridge deck.
7. Apply protective coat and bridge deck grooving to top of bridge deck overlay and new concrete at joints.
8. Jack and remove existing bearings at expansion joints and replace with elastomeric bearings.
9. Repair deteriorated concrete at piers.

Note:  
⊙ Roadway is for information only, which references location given in existing plans.



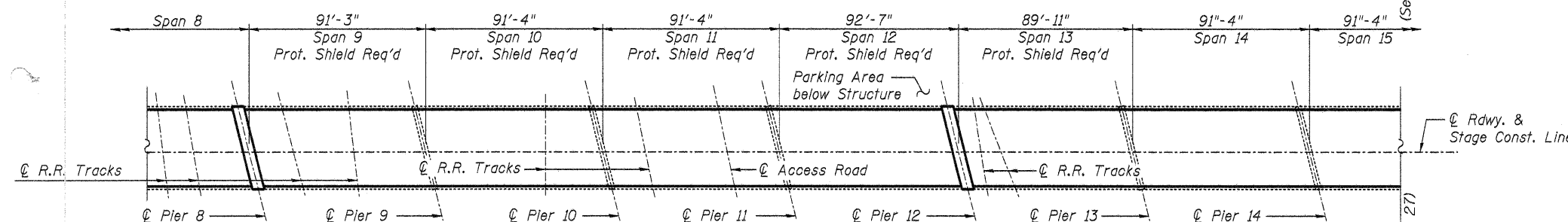
**PARTIAL ELEVATION**



**LOCATION SKETCH**



Michael T. Haley 1/27/10  
Date  
Michael T. Haley  
Licensed Structural Engineer  
State of Illinois No. 81-5991  
Expires 11/30/2010



**PARTIAL PLAN**

**DESIGN SPECIFICATIONS**

(New Construction)  
2002 AASHTO "Standard Specifications for Highway Bridges"  
17th Edition

**LOADING HS20-44**

(Original Construction)

**DESIGN STRESSES**

**FIELD UNITS**

New Construction  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 36,000 psi (Structural Steel)(M270, Gr. 36)

**GENERAL PLAN AND ELEVATION (1 of 2)**  
**SB US 12/20/45 (LAGRANGE RD)**  
**OVER SANTA FE DRIVE, ET AL**  
**FAP RTE 330 - SECTION 462 X-B-I**  
**COOK COUNTY**  
**STRUCTURE NO. 016-2407**

<p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	SHEET NO. 1  27 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		330	462 X-B-I	COOK	54	21
					CONTRACT NO. 60J37	
ILLINOIS FED. AID PROJECT						

Designed By: TBP  
Checked By: MTH  
Date: 1/2010  
File: 016-2407.dgn