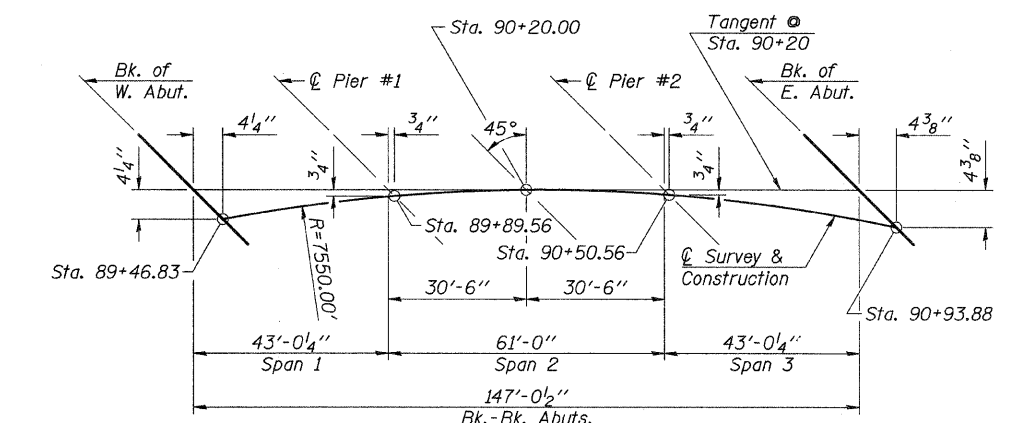
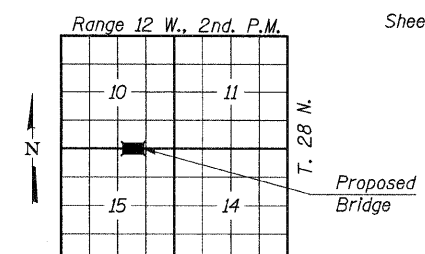


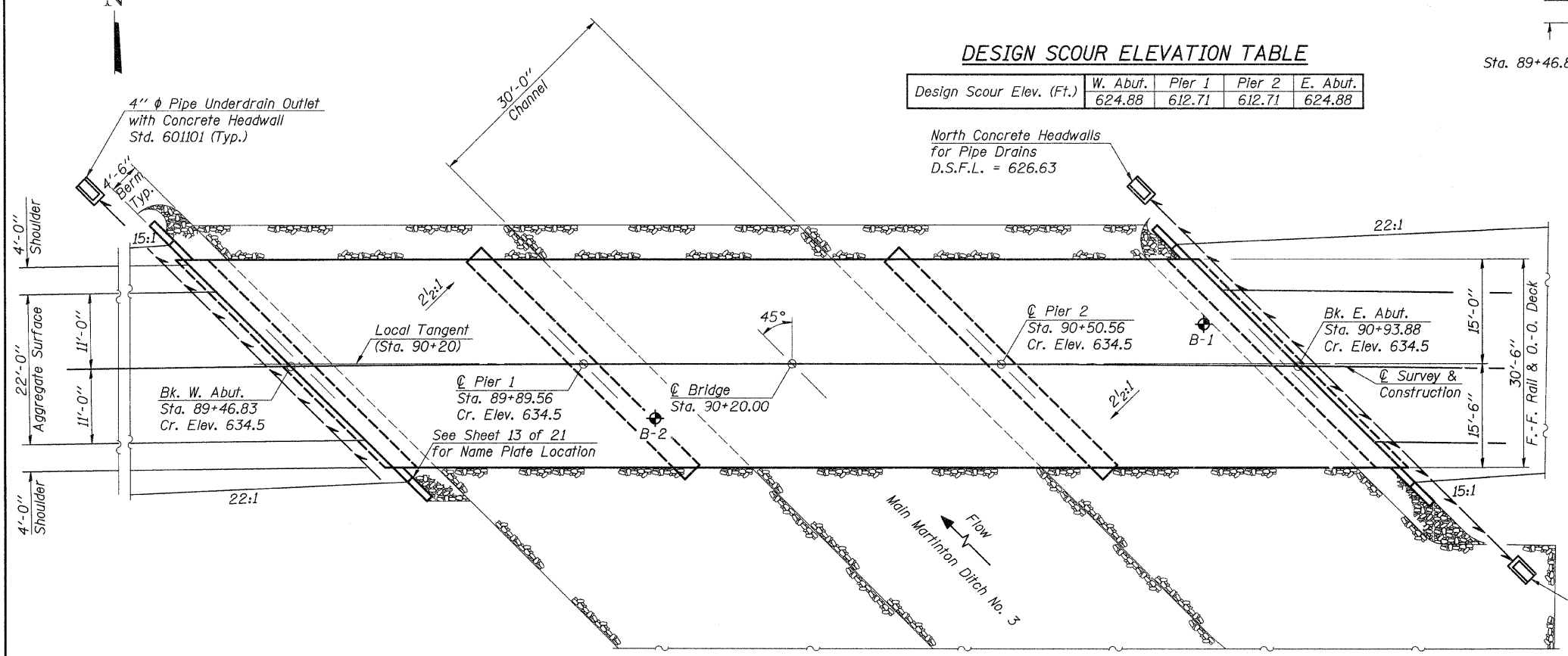
**LOCATION PLAN**



**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elev. (Ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	624.88	612.71	612.71	624.88

North Concrete Headwalls for Pipe Drains  
D.S.F.L. = 626.63



**INDEX OF SHEETS**

- General Plan and Elevation
- General Notes, Bill of Materials & Miscellaneous Details
- 5. Top of Slab Elevations
- 7. Superstructure
- 9. Steel Railing, Type SM (Special)
- 11. Structural Steel
- Bearing Details
- 14. Abutments
- 16. Piers
- Metal Shell Pile Details
- 18. Cantilever Forming Brackets
- 20. Soil Boring Logs
- Riprap Details

**GENERAL PLAN & ELEVATION**  
T.R. 55B  
SECTION 07-16121-00-BR  
IROQUOIS COUNTY  
STATION 90+20.00  
S.N. 038-4558

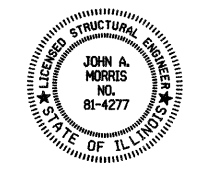
**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = 0.106g  
Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = 0.168g  
Soil Site Class = D

Note: See Sheet 21 of 21 for Riprap Details.

**DESIGN STRESSES**  
f<sub>c</sub> = 3,500 p.s.i. (Concrete)  
f = 60,000 p.s.i. (Reinf. Bars)  
f<sub>y</sub> = 50,000 p.s.i. (Structural Steel M270W Gr. 50)  
LOADING HL-93  
Design Specifications: 2010 AASHTO LRFD  
50#/Sq. Ft. Included in dead load for future wearing surface.

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO LRFD Bridge Design Specifications'."

John A. Morris 3-5-12  
ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/12)



DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

**WATERWAY INFORMATION**

Drainage Area	18.98 Sq. Mi.
Existing Opening (20 Yr.)	320 Sq. Ft.
Required Opening (20 Yr.)	703 Sq. Ft.
Proposed Opening (20 Yr.)	703 Sq. Ft.
Design Discharge (20 Yr.)	1,076 C.F.S.
Created Head (20 Yr.)	0.0 Ft.
100 Year Discharge	1,600 C.F.S.
100 Yr. Created Head	0.1 Ft.

**FEHR-GRAHAM & ASSOCIATES, LLC**  
ENGINEERING AND SCIENCE CONSULTANTS  
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TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55B	07-16121-00-BR	IROQUOIS	33	5
MARTINTON ROAD DIST. ILLINOIS			CONTRACT NO. 87487	
			F.A. PROJ. BROS-075(145)	