

Bench Mark: Chiseled square set in headwall of SN 037-1113 located at Sta. 303+07.43 and elevation 627.21.

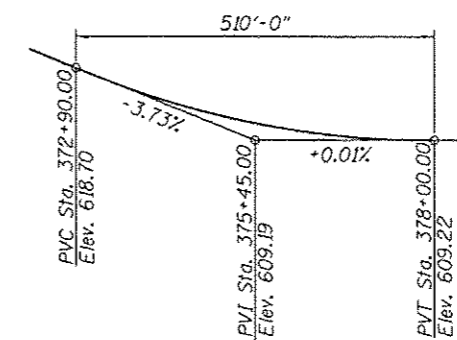
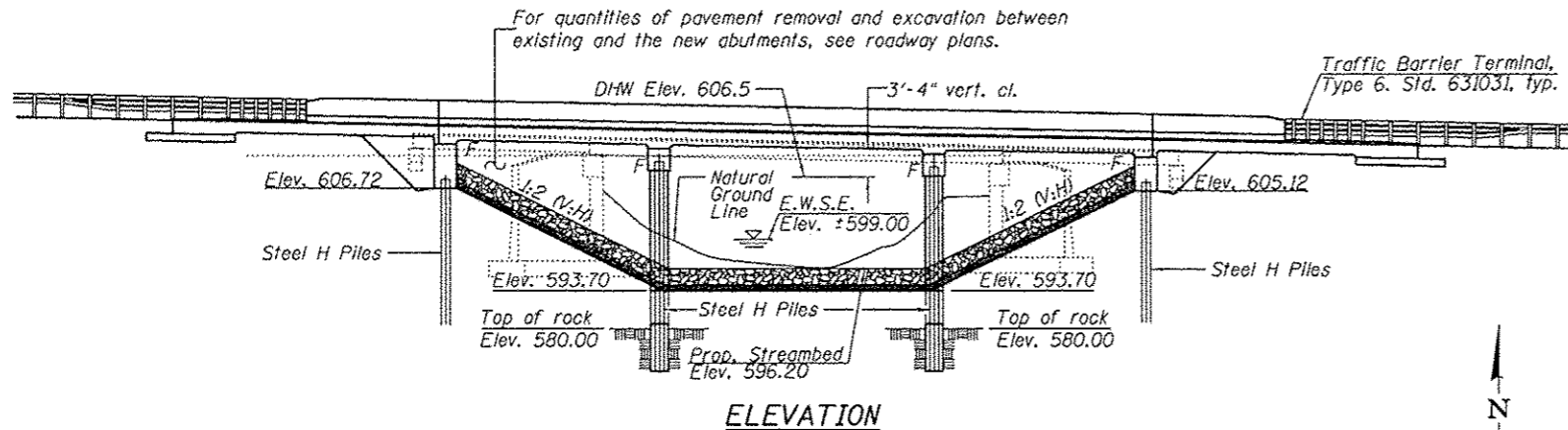
Existing Structure: SN 037-0048 was originally constructed in 1921 as a single span RC through girder on RC abutments. In 1976 the superstructure was reconstructed with a new single span PPC deck beam superstructure on new, widened abutment seats. The bridge is 48'-0" bk. to bk. abuts. and 33'-0" o. to o. of deck.

Existing structure to be removed and replaced. Traffic shall be detoured during construction.

No Salvage

**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 General Data
- 3-4 Top of Slab Elevations
- 5 Top of West Approach Slab Elevations
- 6 Top of East Approach Slab Elevations
- 7 Superstructure
- 8 Superstructure Details
- 9-10 Bridge Approach Slab Details
- 11 West Abutment
- 12 East Abutment
- 13 Piers 1 & 2
- 14 Steel H Pile Details
- 15 Soil Boring Logs



STATION 375+31.63  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.S. RTE. 226 SEC. 3T & 3BR-1  
 LOADING HL-93  
 STRUCTURE NO. 037-0178

**NAME PLATE**  
 See Std. 515001

**PROFILE GRADE**  
 (Along Centerline of Roadway)

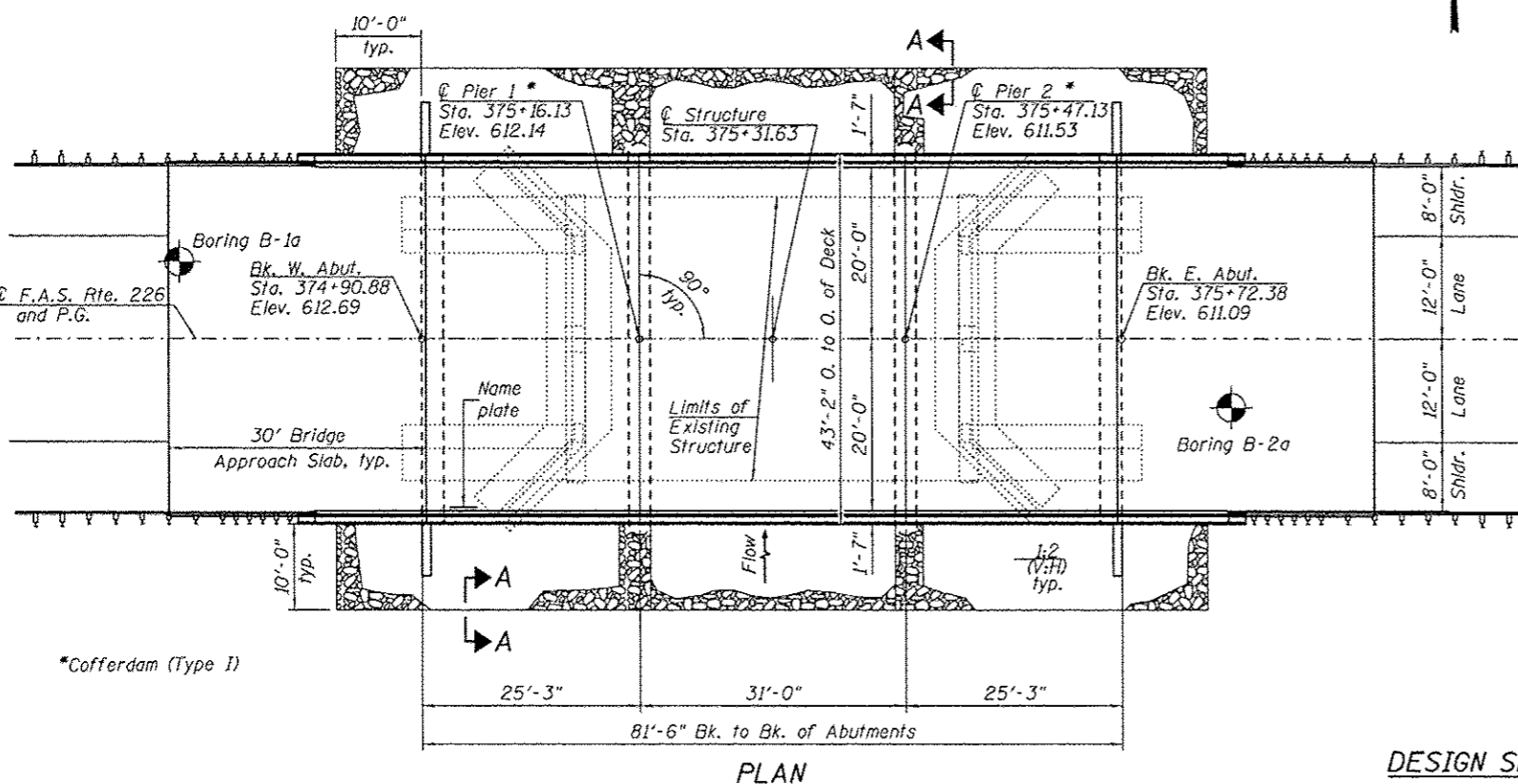
**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevations (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.
Q100	606.7	586.5	584.0	605.1

**WATERWAY INFORMATION**

Drainage Area = 22.3 sq. mi. Low Grade Elev. 609.11 @ Sta. 378+50

Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Ten-Year	10	2,450	295	479	606.0	2.3	2.1	608.3	608.1
Existing Overtopping	25	3,197	309	n/a	606.3	2.8	n/a	609.1	n/a
Design	50	3,750	318	516	606.5	2.8	2.4	609.3	608.9
Proposed Overtopping	73	4,063	n/a	523	606.6	n/a	2.5	n/a	609.1
Base	100	4,300	327	530	606.7	2.9	2.9	609.6	609.6



**DESIGN SPECIFICATIONS**

2010 AASHTO LRFD Bridge Design Specifications

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

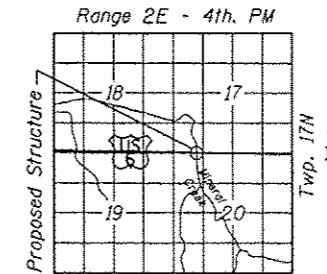
**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.063g  
 Design Spectral Acceleration at 0.2 sec. (S<sub>D2</sub>) = 0.100g  
 Soil Site Class = C



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
**US ROUTE 6 OVER MINERAL CREEK**  
**F.A.S. RTE. 226 SEC. 3T & 3BR-1**  
**HENRY COUNTY**  
**STATION 375+31.63**  
**STRUCTURE NO. 037-0178**



EXPIRES 11-30-2014

DESIGNED - Fossella P.K. Kharmura	EXAMINED - Jay E. Juchacz	DATE - December 4, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 037-0178 SHEET NO. 1 OF 15 SHEETS	F.A.S. RTE. 226	SECTION 3T & 3BR-1	COUNTY HENRY	TOTAL SHEETS 210	SHEET NO. 42
CHECKED - Stephen M. Ryan	PASSED - [Signature]	REVISED						CONTRACT NO. 64F25	
DRAWN - h.t. Quong	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED							
CHECKED - FT/SMR/GEA									