

Bench Marks: Chiseled box in northwest corner of existing structure - Elevation 627.42.  
Chiseled box in southeast corner of existing structure - Elevation 627.42.

Existing Structure: S.N. 098-001 was built in 1953 as S.B.I. Route 3 over French Creek. It has a reinforced concrete deck girder superstructure (arched T-beam) with full-height abutments and a single reinforced concrete wall pier. The substructure units are all skewed at 17 degrees right ahead and founded on untreated timber piles. The structure is to be removed 1' below proposed grade. The back-to-back abutment length is 82'-4" and the out-to-out width is 34'-4". One lane of two-way traffic will be maintained utilizing stage construction. No salvage.

STATION 910+17  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 22 SEC 15BR-1  
LOADING HL-93  
STR. NO. 098-0118

NAME PLATE  
See Std. 515001

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2010 AASHTO LRFD Bridge Design Specifications  
5th Edition with 2010 Interims

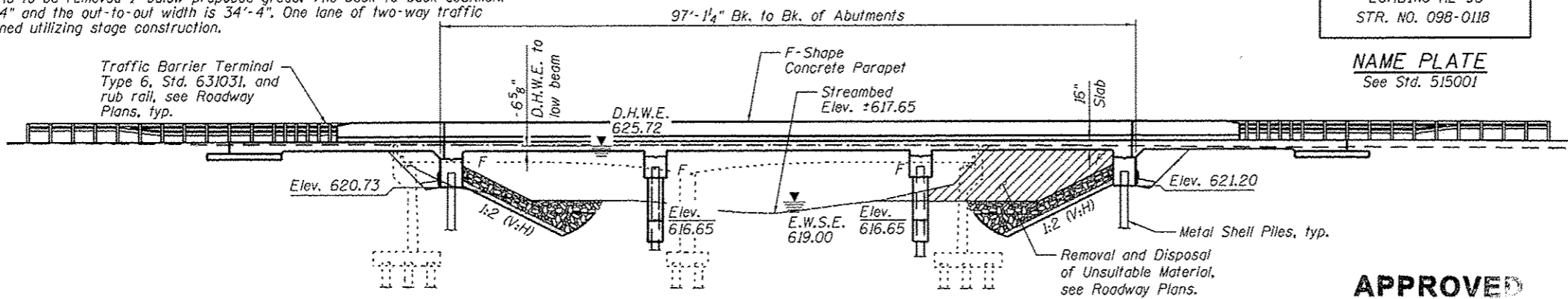
**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.14g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.23g  
Soil Site Class = E

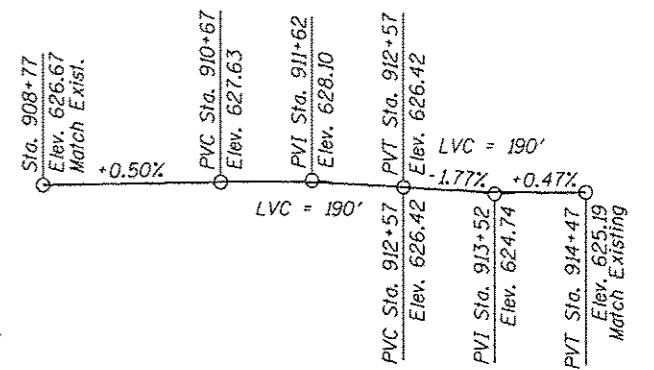
**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	620.73	608.27	607.25	621.20

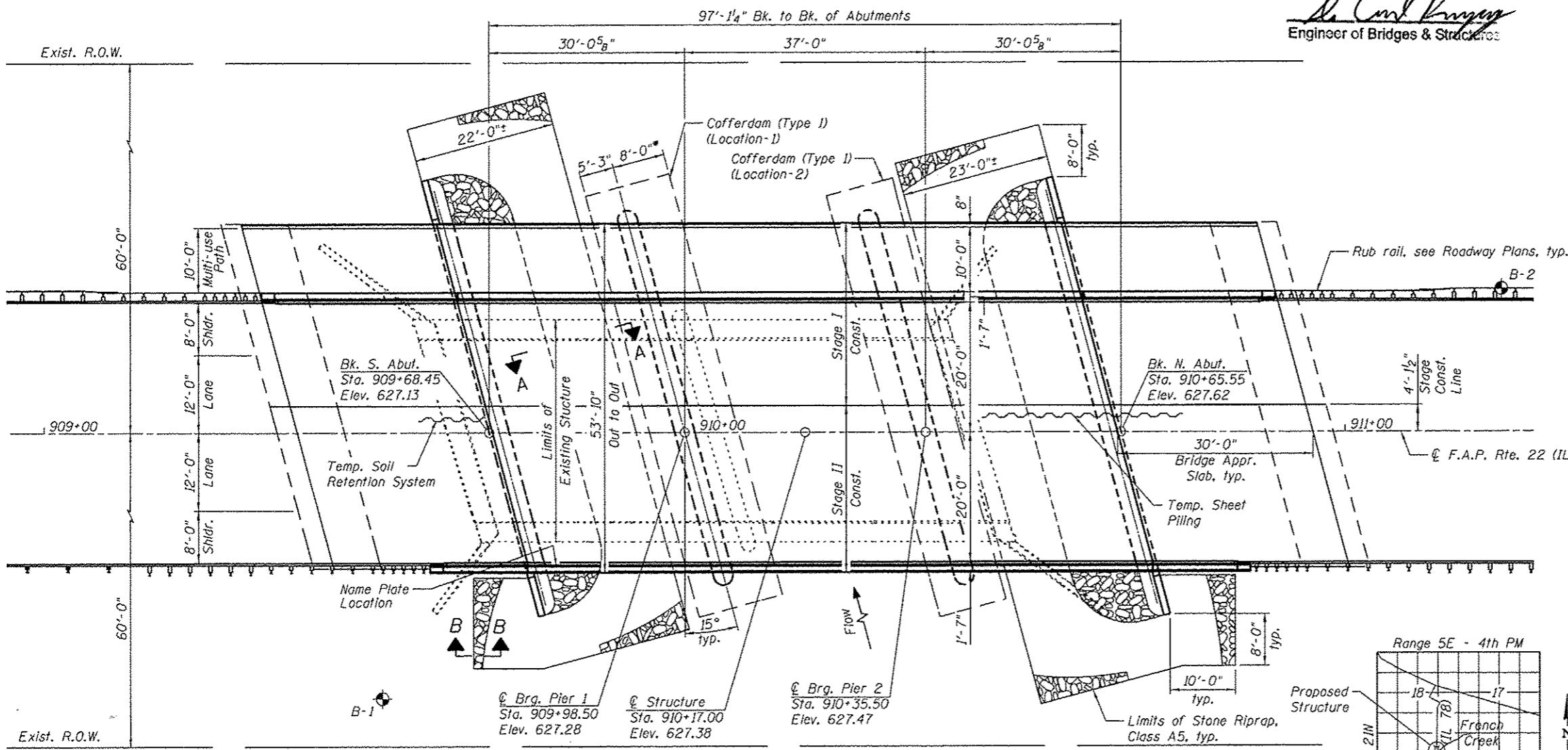
**APPROVED**  
For Structural Adequacy Only  
*De Carol Ruyter*  
Engineer of Bridges & Structures



**ELEVATION**

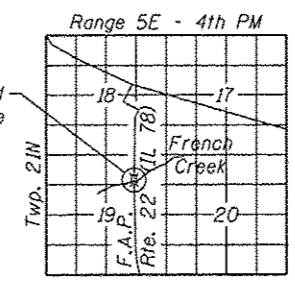


**PROFILE GRADE**  
(Along & F.A.P. 22)



**PLAN**

For Sections A-A and B-B, see sheet S-2



**LOCATION SKETCH**



*Kevin J. Behm*  
6-3-2014

EXPIRES: 11-30-2014

**GENERAL PLAN**  
**ILLINOIS ROUTE 78 OVER FRENCH CREEK**  
**F.A.P. RTE. 22 SECTION 15BR-1**  
**WHITESIDE COUNTY**  
**STA. 910+17**  
**STRUCTURE NO. 098-0118**

\* Cofferdam location as shown is outside the typical limits stated in the Special Provision in order to avoid conflict with existing pier wall and footing.

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J. BEHM  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 12/21/2014 2:56:01 PM  
FILE NAME: 0980118-64F19-001-05C.dgn  
PLOT DRIVER: PLOT24H  
PEN TABLE: J:\tools\hpf.tbl



USER NAME :	DESIGNED - MGH	REVISED
PLOT SCALE :	CHECKED - KJB	REVISED
PLOT DATE :	DRAWN - WJH	REVISED
	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 098-0118  
SHEET NO. S-1 OF S-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	59

CONTRACT NO. 64F19  
ILLINOIS FED. AID PROJECT