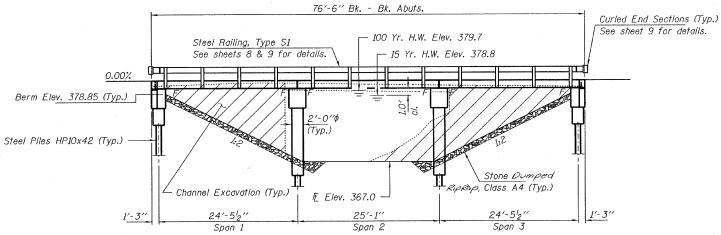
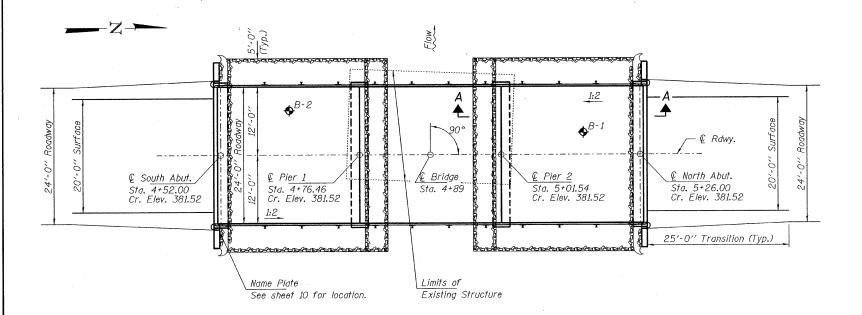
BENCHMARK: PK Nail in 8" maple tree. ±80' Lt., Sta. 5+40, Elev. 379.35

EXISTING STRUCTURE: A single span I-beam bridge on closed concrete abutments, concrete deck and concrete and timber backed wingwalls. Structure closed to traffic.

No Salvage





ELEVATION

DESIGN STRESSES

FIELD UNITS

 $f'c = 3,500 \ psi$ $fy = 60,000 \ psi \ (Reinf.)$

PRECAST PRESTRESSED UNITS

DESIGNED - A.S.L.

CHECKED - S.W.M.

DRAWN - D.T.M.

CHECKED - D.A.B.

f'c = 6,000 psi f'ci = 5,000 psi fpu = 270,000 psi ($\frac{1}{2}$ ' ϕ low lax. strands) fpbt = 201,960 psi ($\frac{1}{2}$ ' ϕ low lax. strands) fy = 60,000 psi (Reinf.)

LOADING HL-93

Design Specifications: 2007 AASHTO LRFD with all applicable interims. 50#/Sq. Ft. included in dead load for future wearing surface.

SEISMIC DATA

PLAN

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SpI) = 0.278g
Design Spectral Acceleration at 0.2 sec. (SpS) = 0.666g
Soil Site Class = D

WATERWAY INFORMATION

Drainage Area = 6.20 Sq. Mi. Existing Low Grade Elev. 378.5 Sta. 3+00 Proposed Low Grade Elev. 378.5 Sta. 2+50													
Flood	Freq.		Opening Sq. Ft.		Natural	Head - Ft.		Headwater El.					
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.				
Design	15	1,723	289	458	378.8	0.2	0.0	379.0	378.8				
Base	100	2,960	316	510	379.7	0.0	0.1	379.7	379.8				
Max. Calc.	500	4,060	321	528	380.0	0.0	0.1	380.0	380.1				

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at South Abutment or approved by the Engineer before ordering the remainder of piles.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

superstructure.

Reinforcement bars shall conform to the requirements of ASTM A
706 Gr 60 (IL Modified). See Special Provisions.

Excavation required to construct the Abutments and Piers shall
be included in the cost of Concrete Structures. No additional

be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

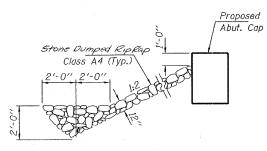
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.

The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

See Sheets 13 & 14 for Borings.

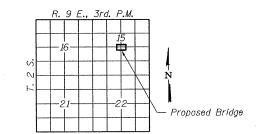
BUILT 200_ BY WAYNE COUNTY SEC. 08-15143-00-BR LEECH ROAD DISTRICT STR. NO. 096-3451 LOADING HL-93

NAME PLATE See Std. 515001



SECTION A-A

Note: See Special Provisions for Stone Dumped Riprap, Class A4



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			390
Stone Dumped Riprap, Class A4	Ton			140
Removal of Existing Structures	Each			1
Concrete Structures	`Cu. Yd.		42.0	42.0
Concrete Encasement	Cu. Yd.		14.6	14.6
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,800		1,800
Reinforcement Bars	Pound		4,390	4,390
Steel Railing, Type S1	Foot	147		147
Furnishing Steel Piles HP10x42	Foot		910	910
Driving Piles	Foot		910	910
Test Pile Steel HP10x42	Each		2	2
Name Plates	Each		1	1

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 Specifications."

W. MEGGINSON 081-6064 SPRINGFIELD, IL. Stein W. Myndon 10/2011 Expires 11-30-2010

GENERAL PLAN AND ELEVATION STRUCTURE NO. 096-3451

HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703

184,000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION PROJECT NUMBER: 09.0060.130

SHEET NO.1 10 SHEETS STEVEN

TOTAL SHEETS SHEET T.R. SECTION COUNTY NO. 622 08-15143-00-BR 14 5 WAYNF LEECH ROAD DISTRICT CONTRACT NO. 95607 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT