

WATERWAY DATA

 Drainage Area
 8.6 Sq. Mi.

 Existing Opening (15 yr)
 233 Sq. Ft.

 Req'd Opening (15 yr)
 447 Sq. Ft.

 Proposed Opening (15 yr)
 447 Sq. Ft.

 Design Discharge (15 yr)
 2,460 C,F.S.

 Created Head (15 yr)
 0.0 Ft.

 100 Yr. Discharge
 4,317 C,F.S.

 100 Yr. Created Head
 0.0 Ft.

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

LOADING HL-93

future wearing surface.

DESIGNED - S.M.S.

CHECKED - S.W.M.

DRAWN - D.T.M.

CHECKED D.A.B.

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi f'ci = 5,000 psi fpu = 270,000 psi (5''\phi low lax. strands) fpbt = 201,960 psi (2''\phi low lax. strands) fy = 60,000 psi (Reinf.)

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

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 West Abutment or approved by the Engineer before ordering the remainder of piles.

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

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. See Special Provisions.

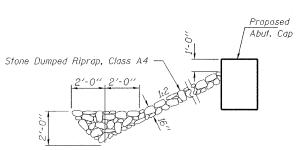
Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

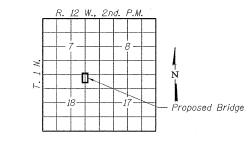
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.

The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions. See Sheets 8 & 9 of 9 for Borings.

CRAWFISH CREEK BUILT 200_ BY WABASH COUNTY SEC. 06-06109-00-BR ROAD DISTRICT #6 STR. NO. 093-3133 LOADING HL-93

> NAME PLATE See Std. 515001





LOCATION SKETCH

SECTION A-A

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			-
Stone Dumped Riprap, Class A4	Ton			260
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		28.6	28.6
Concrete Encasement	Cu. Yd.		3.4	3.4
Precast Prestressed Concrete Deck Beams (27'' Depth)	Sq. Ft.	1,680		1,680
Reinforcement Bars	Pound		3,210	3, 210
Steel Railing, Type S1	Foot	136		136
Furnishing Steel Piles HP10x42	Foot		513	5 <i>1</i> 3
Driving Piles	Foot		513	<i>513</i>
Test Pile Steel HP10x42	Each		1	1
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."



Steven W. Migginson 3/31/2009 ILLINOIS STRUCTURAL NO. 081-6064 Expires 11-30-2010

GENERAL PLAN AND ELEVATION STRUCTURE NO. 093-3133

HAMPTON, LENZINI & RENWICK, INC.

HER

PROJECT NUMBER: 08.0207.130

3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400

DATE: 03/31/0

9 SHEETS

SHEET NO.1

T.R.	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
37	06-06109-00-BR		WABASH	14	5	
				CONTRACT	NO. 95	584
FED. RO	DAD DIST. NO.	ILLINOIS	FED. Al	D PROJECT		