Existing Structure: Single span bridge with concrete deck on steel stringers supported on closed concrete abutments. To be removed. No salvage. 22'L. x 20'W.

BILL OF MATERIALS (BRIDGE ONLY)

ITEM	UNIT	TOTAL
Channel Excavation	Cu Yd	490
Porous Granular Embankment	Ton	100
Stone Dumped Riprap, Class A4	Ton	160
Removal of Existing Structures	Each	1
Concrete Structures	Cu Yd	25.0
Concrete Encasement	Cu Yd	2.8
PPCDB (33" Depth)	Sq Ft	1909
Reinforcement Bars	Pound	4100
Steel Railing, Type S1	Foot	139
Furnishing Steel Piles HP12x53	Foot	369
Driving Piles	Foot	369
Test Pile Steel HP12x53	Each	1
Pile Shoes	Each	8
Name Plates	Each	1
Terminal Marker - Direct Applied	Each	4

GENERAL NOTES

Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel at the ROW line. If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment.

The Contractor is hereby advised that very stiff soils will be encountered prior to the location of anticipated nominal required bearing. See the soil borings for further information.

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

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706 Grade 60 (IL. Modified).

See Specifications for Soll Borings.

Do not scale these drawings.

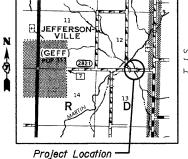
The abutment bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required, 18 " fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

> MARTIN CREEK BUILT 201_ BY WAYNE COUNTY SEC. 07-00117-00-BR LOADING HL-93 STRUCTURE NO. 096-3456

NAME PLATE

(See State Standard 515001 for details)

R. 7 E., 3rd P.M.



LOCATION SKETCH

 f_{pu} = 270,000 psi (${}^{l}_{2}$ " ϕ low lax. strands) $f_{pbt} = 201,960 \text{ psi } (\frac{1}{2}\text{"} \phi \text{ low lax. strands})$ $f_V = 60,000 \text{ psi (reinforcement)}$

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2 Soil Site Classification = D $S_{D1} = 0.277$ $S_{DS} = 0.668$

DESIGN SPECIFICATIONS

2007 (4th Ed.) AASHTO LRFD Bridge Design Specifications, with 2008 & 2009 Interims.

DESIGN STRESSES FIELD UNITS

$f'_{C} = 3,500 \text{ psi}$ $f_{y} = 60,000 \text{ psi (reinforcement)}$

81-4853

LICENSED STRUCTURA

ENGINEE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

RHUTASEL and ASSOCIATES, INC. CONSULTING ENGINEERS • LAND SURVEYORS CENTRALIA, ILLINOIS ILLINOIS FIRE ELICHNEY NO. 184-000287

100 2380 134

1543 134

Drainage Area = 4.985 Sq. Mi.

Flood

Design

Base

WATERWAY DATA

(By Connor & Connor, Inc.)

381

 Opening Sq. Ft.
 Natural
 Head - Ft.
 Headwater El.

 G.
 Exist.
 Prop.
 H.W.E.
 Exist.
 Prop.
 Exist.
 Prop.

 G
 134
 354
 406.5
 0.4
 406.9

407.0 0.5 0.9 407.5 407.9

DESIGNED -

CHECKED -

DRAWN

CHECKED

BLT	REVISED	-
GLH	REVISED	-
JN	REVISED	-
12/14/2011	REVISED	-

GENERAL PLAN AND ELEVATION STRUCTURE NO. 096-3456

Date of License Expiration

Jan S. John

12-14-2011

Date of Sianina

COUNTY TOTAL SHEET NO. SECTION WAYNE 11 6 2821 07-00117-00-BR CONTRACT NO. 95671