B.M.: Mag Nail on Top of 42" CMP
Sta. 19+32, 19' Rt.
Elev. 617.51

Chiseled "□" on S.W. Wing Wall of Bridge
Sta. 19+85, 8' Lt.
Elev. 621.01

Existing Structure:
Single span pony truss with concrete deck on concrete closed abutments. The structure is ±27'-6" back to back of abutments, ±14'-0" out to out of deck and is not skewed.
Str. No. 038-5028

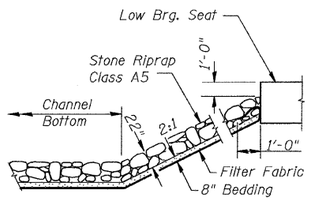
Salvage: None

Road to be closed to traffic during construction.

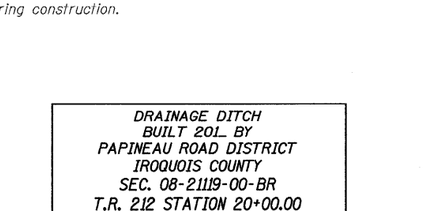
DRAINAGE DITCH
BUILT 201_ BY
PAPINEAU ROAD DISTRICT
IROQUOIS COUNTY
SEC. 08-21119-00-BR
T.R. 212 STATION 20+00.00
F.A. PROJ. BROS-0075(147)
STR. NO. 038-5040 LOADING HL-93

NAME PLATE

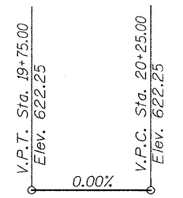
Locate Name Plate at S.E. Wingwall Corner of Bridge (See Std. 515001)



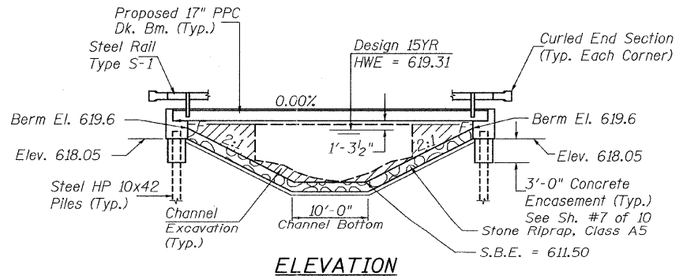
STONE RIPRAP DETAIL



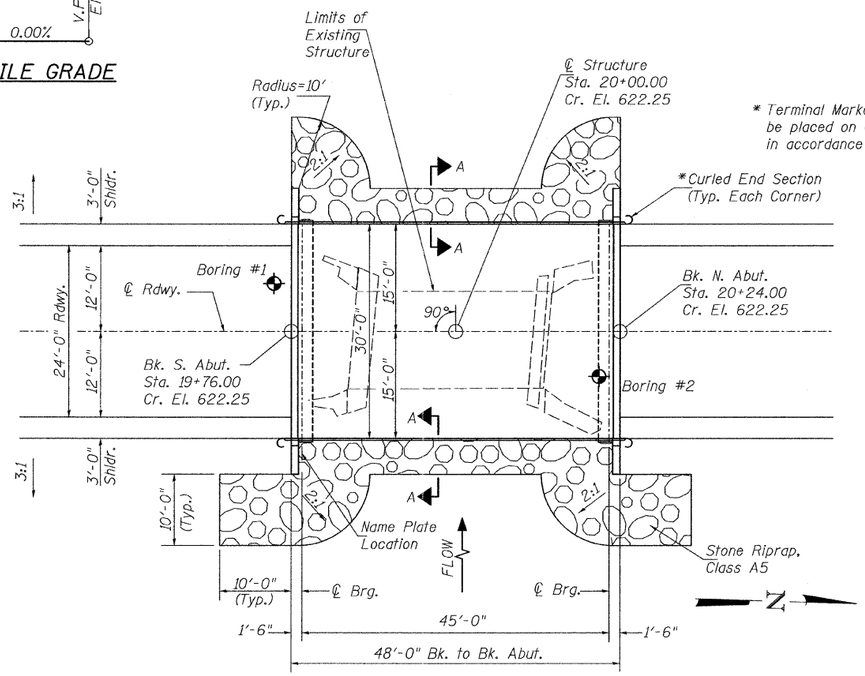
SECTION A-A



PROFILE GRADE



ELEVATION



PLAN

* Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 635006

GENERAL NOTES

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

For Soil Boring Logs, See Sheets 8-10 of 10.

A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(12) of the Standard Specifications.

Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. Reinforcement Bars designated (E) shall be epoxy coated.

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

Excavation behind existing abutment walls shall be done before removing existing Superstructure.

The existing structural steel coating may contain lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Channel Excavation	CU YD	——	180	180
	Stone Riprap, Class A5	TON	——	325	325
	Filter Fabric	SQ YD	——	270	270
(1)	Removal of Existing Structures	EACH	——	——	1
	Structure Excavation	CU YD	——	65	65
	Concrete Structures	CU YD	——	23.4	23.4
(1)	Precast Prestressed Concrete Deck Beams (17" Depth)	SQ FT	1,385	——	1,385
	Reinforcement Bars	POUND	——	2,720	2,720
(1)	Steel Railing, Type S1	FOOT	96	——	96
	Furnishing Steel Piles HP10x42	FOOT	——	216	216
(1)	Driving Piles	FOOT	——	216	216
(1)	Test Pile Steel HP10x42	EACH	——	1	1
	Concrete Encasement	CU YD	——	3.5	3.5
	Name Plates	EACH	——	1	1

(1) See Special Provisions

DESIGN SCOUR TABLE

Location	S. Abut.	N. Abut.
Design Scour Elevation	618.05	618.05

WATERWAY INFORMATION

Drainage Area = 4.68 Sq. Mi. Low Grade Elev. = 620.83 @ Sta. 22+50.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	425	124	200	619.31	0.06	0.00	619.37	619.31
Base	100	677	138	224	619.91	0.17	0.06	620.08	619.97

DESIGNED	N.P.H.
CHECKED	J.E.H.
DRAWN	N.P.H.
CHECKED	J.E.H.

DESIGN SPECIFICATIONS

2007 AASHTO (LRFD) & Interims

DESIGN STRESSES

(FIELD UNITS)
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS)
f'c = 6,000 p.s.i.
f'ci = 5,000 p.s.i.
f's = 270,000 p.s.i. (½" Strands)
f'si = 201,960 p.s.i. (½" Strands)

LOADING HL-93

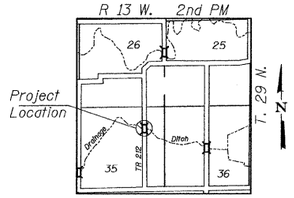
Allow 50#/sq. ft. for future wearing surface.

JOSEPH E. HUTCHCRAFT 062-006440 LICENSED STRUCTURAL ENGINEER OF JACKSONVILLE ILLINOIS 11/30/2012

License Expires 11/30/2012

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 Standard Specification for Highway Bridges.
This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

9/29/2011
Illinois Structural No. 6440
Expires 11/30/2012



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IROQUOIS COUNTY
SECTION 08-21119-00-BR
T.R. 212 OVER DRAINAGE DITCH

SHEET NO. 1 10 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TR 212	08-21119-00-BR	IROQUOIS	24	7
		S.N. 038-5040	CONTRACT NO. 87501		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0075(147)		

2968B001