

BENCHMARK: Iron Pin, Sta. +4+06.36, 10.23' Rt., Elev. 389.67

EXISTING STRUCTURE: Sta. 5+00 - 2-8' Dia. tank cars; ±24' long
Structure closed to traffic.

No Salvage - Tank cars remain property of Township.

Traffic Barrier Terminal, Type 5A
(NW, SW, & SE corners)
See sheets 4 of 8 for details.

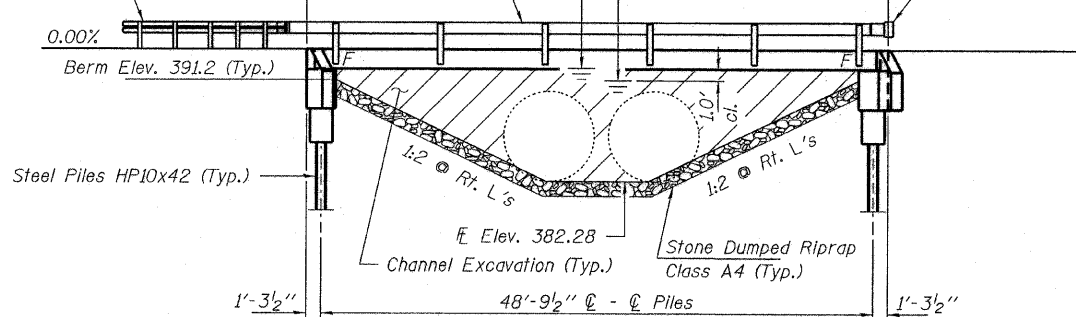
Steel Railing, Type S1
See sheets 4 & 5 of 8 for details.

51'-4 1/2" Bk. - Bk. Abuts.

100 Yr. H.W. Elev. 392.34

15 Yr. H.W. Elev. 391.23

Curled End Section
(N.E. corner)
See sheet 5 of 8 for details.



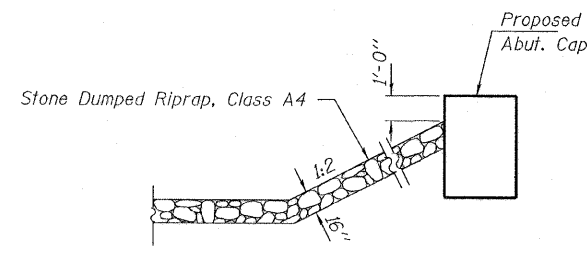
ELEVATION

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). 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 sheet 8 of 8 for Borings.

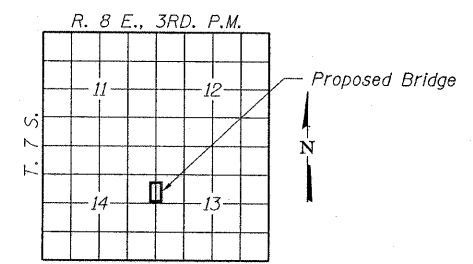
BUILT 200_ BY
WHITE COUNTY
SEC. 06-08134-00-BR
INDIAN CREEK ROAD DISTRICT
STR. NO. 097-3256
LOADING HL-93

NAME PLATE
See Std. 515001

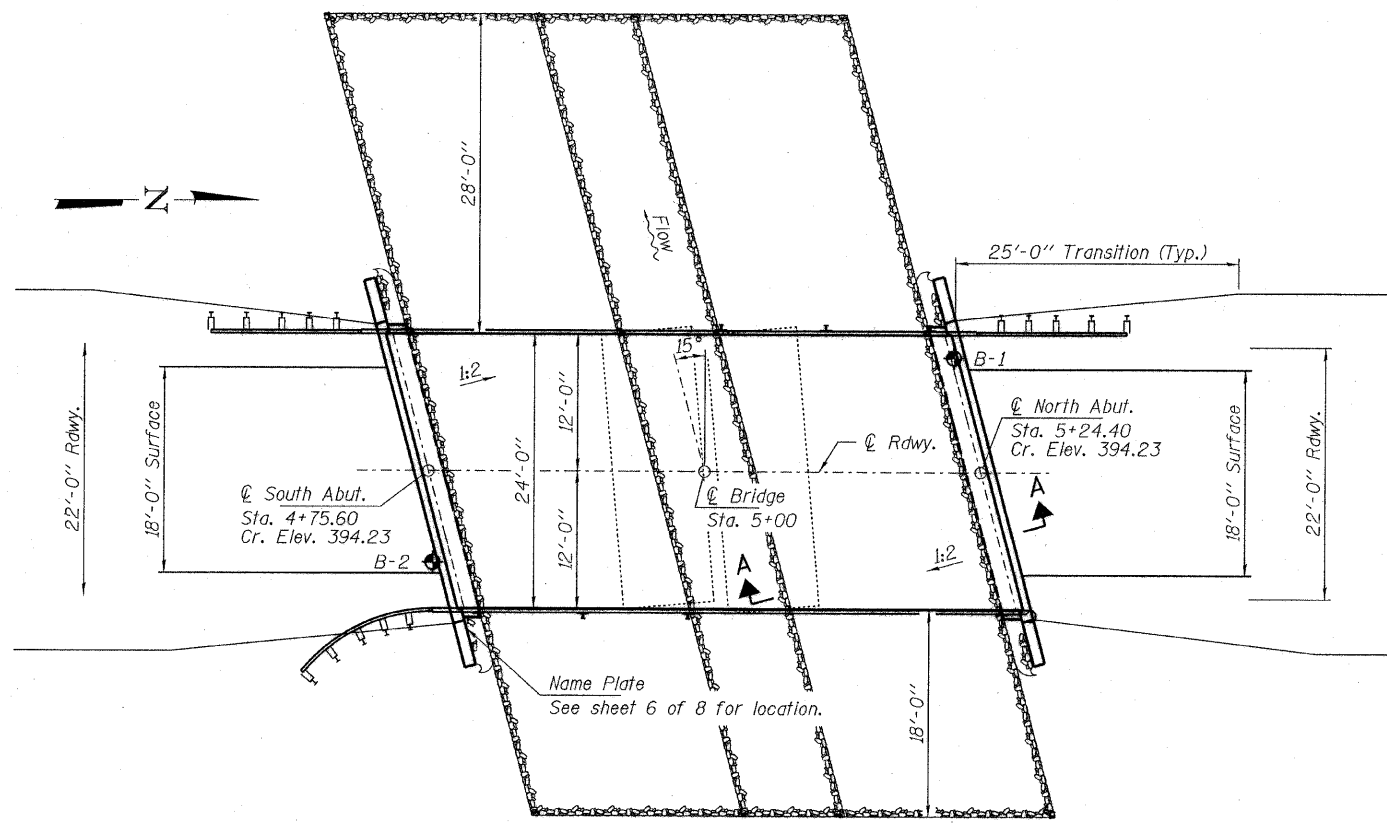


SECTION A-A

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



LOCATION SKETCH



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			245
Stone Dumped Riprap, Class A4	Ton			320
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		23.0	23.0
Concrete Encasement	Cu. Yd.		2.8	2.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1,200		1,200
Reinforcement Bars	Pound		2,500	2,500
Steel Railing, Type S1	Foot	106		106
Furnishing Steel Piles HP10x42	Foot		280	280
Driving Piles	Foot		280	280
Name Plates	Each		1	1

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'cl = 5,000 psi
fpu = 270,000 psi (1/2" low lax. strands)
fpbt = 201,960 psi (1/2" low lax. strands)
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.473g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.877g
Soil Site Class = E

WATERWAY INFORMATION

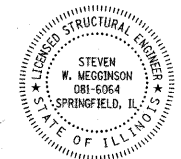
Drainage Area = 2.5 Sq. Mi. Existing Low Grade Elev. 389.8 @ Sta. 2+42.5
Proposed Low Grade Elev. 389.8 @ Sta. 2+42.5

Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Prop.	Natural H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	15	1,174	100	244	391.23	0.11	0.14	391.34	391.37
Base	100	2,050	100	299	392.34	0.0	0.06	392.34	392.40
Max. Calc.									

① Approach opening = 1,019 sq. ft.

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. Maggioni
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-10

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 097-3256

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

LOADING HL-93

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

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 1 8 SHEETS	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		128	06-08134-00-BR	WHITE	12	5
PROJECT NUMBER: 08.0280.130 DATE: 10/15/09		INDIAN CREEK ROAD DISTRICT		CONTRACT NO. 99373		
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BROS-193(30)		