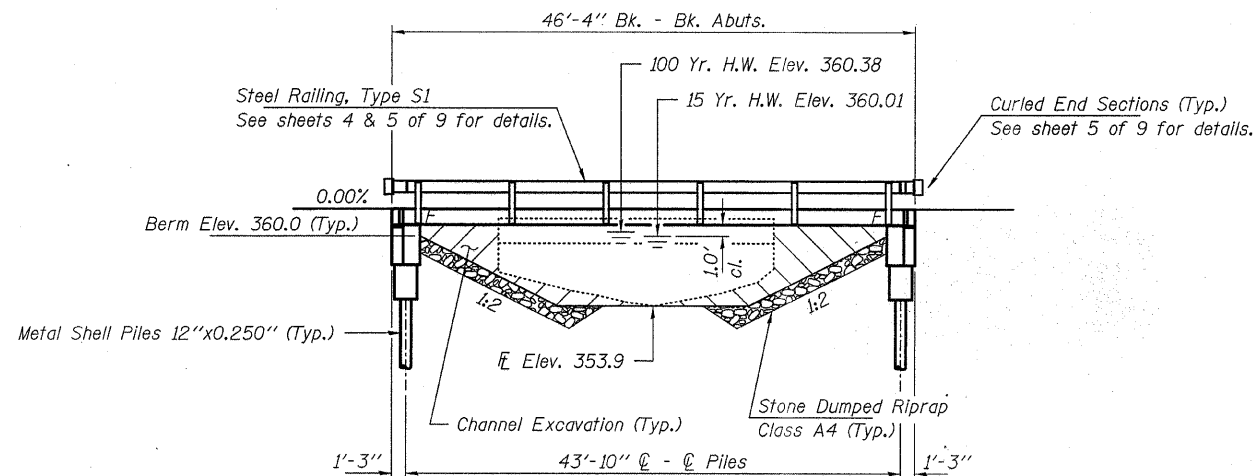


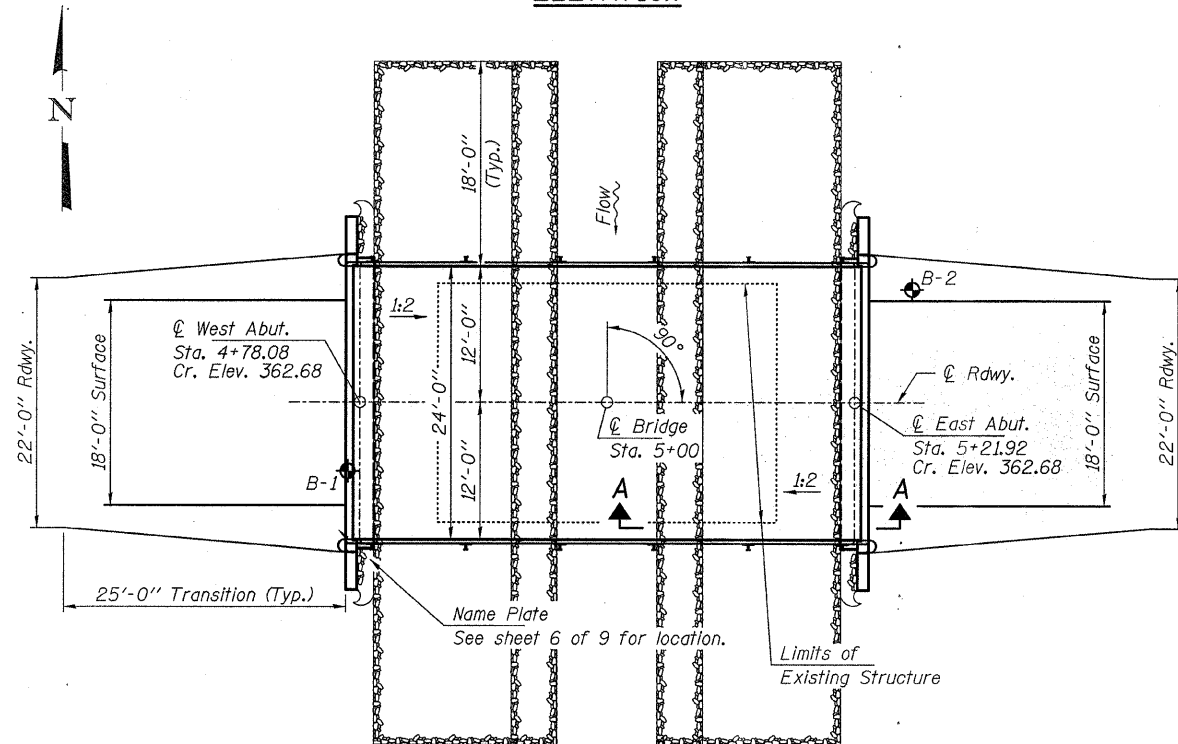
BENCHMARK: Iron Pin, Sta. ±2.24.42, 15.96' Lt., Elev. 362.87

EXISTING STRUCTURE: Sta. 5+00 - Single span concrete deck beam bridge with concrete abutments & wingwalls on timber piles. 30.0 bk.- bk. abuts.; 21.0' o.-o. deck. Structure closed to traffic.

No Salvage



ELEVATION



PLAN

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.)

LOADING HL-93

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

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.442g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.850g
Soil Site Class = E

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.		
Design	15	655	104	176	360.01	0.52	0.17	360.33	360.18
Base	100	1,060	104	192	360.38	2.30	0.47	362.68	360.85

Existing Low Grade Elev. 361.70 @ Sta. 4+98.30
Proposed Low Grade Elev. 362.08 @ Sta. 6+50.0

Drainage Area = 5.7 Sq. Mi.

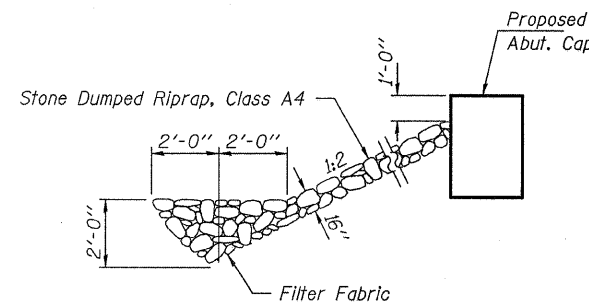
GENERAL NOTES

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. 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 sheets 8 & 9 of 9 for Borings.

BUILT 200_ BY
WHITE COUNTY
SEC. 07-03119-00-BR
EMMA ROAD DISTRICT
STR. NO. 097-3265
LOADING HL-93

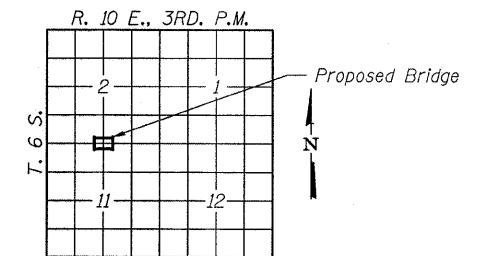
NAME PLATE

See Std. 515001



SECTION A-A

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



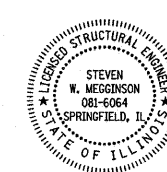
LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			90
Stone Dumped Riprap, Class A4	Ton			180
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		21.0	21.0
Concrete Encasement	Cu. Yd.		3.6	3.6
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,080		1,080
Reinforcement Bars	Pound		2,450	2,450
Steel Railing, Type S1	Foot	88		88
Furnishing Metal Shell Piles 12" x 0.250"	Foot		345	345
Test Pile Metal Shells	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. Megginson 2/26/2007
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-10

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 097-3265

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS	SHEET NO. 1	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		269	07-03119-00-BR	WHITE	12	4
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	9 SHEETS	EMMA ROAD DISTRICT		CONTRACT NO. 99370		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT BROS-193(35)		

PROJECT NUMBER: 08.0256.130 DATE: 02/26/09