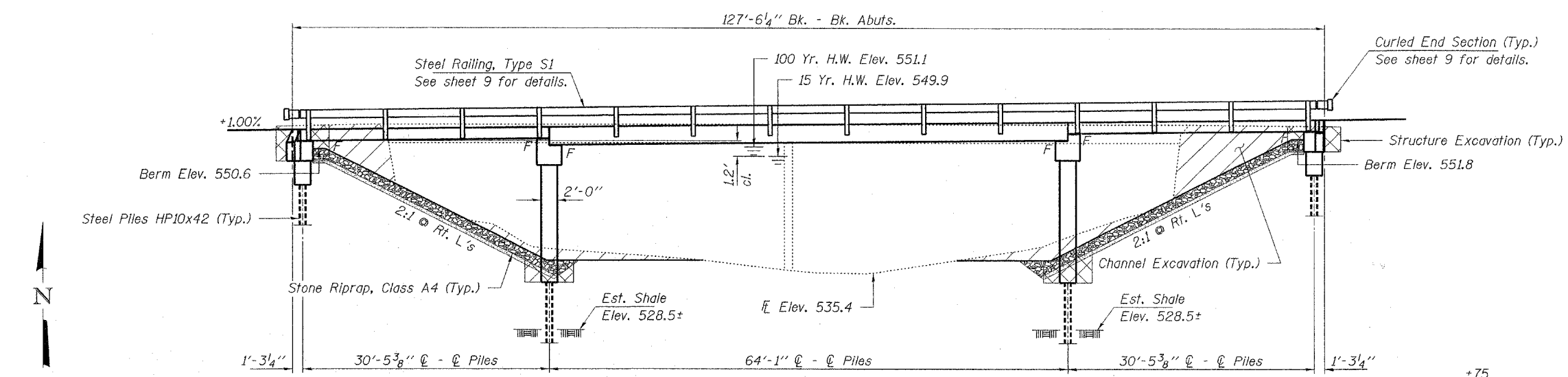


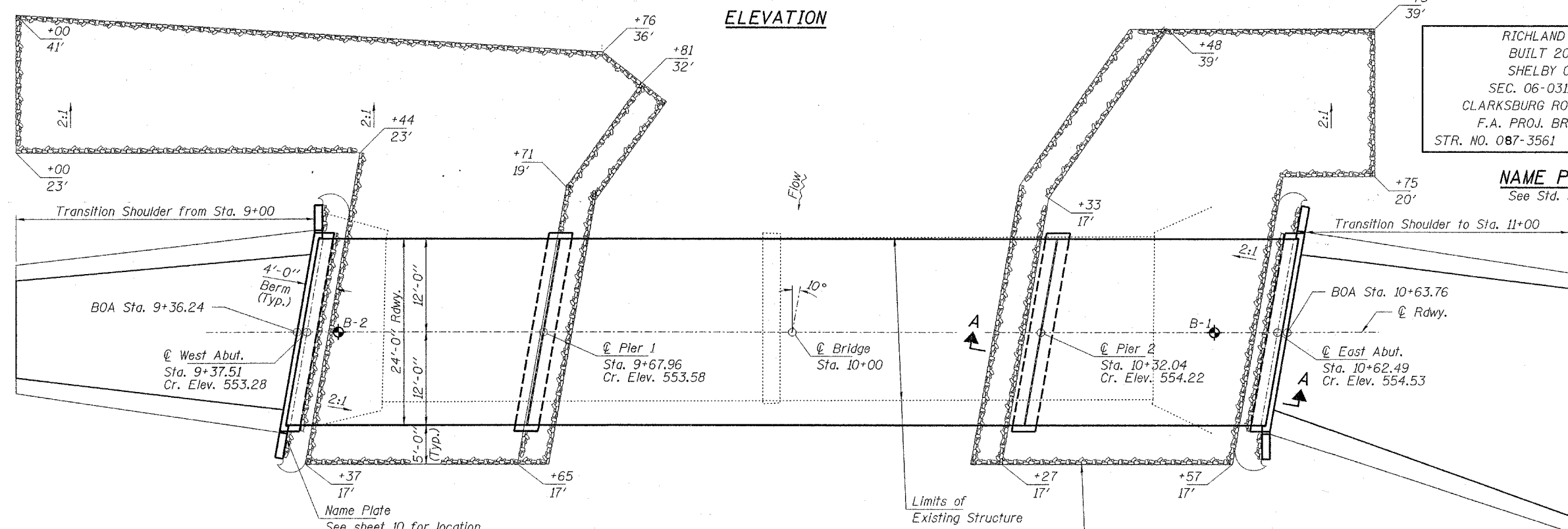
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 367	06-03113-00-BR	SHELBY	16	6
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 08533	

GENERAL NOTES

Layout of riprap may be varied in the field to suit ground conditions as directed by the Engineer.
 The Contractor shall drive test pile 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.
 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 15 for Borings.



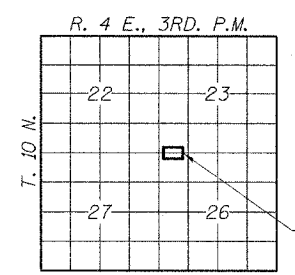
ELEVATION



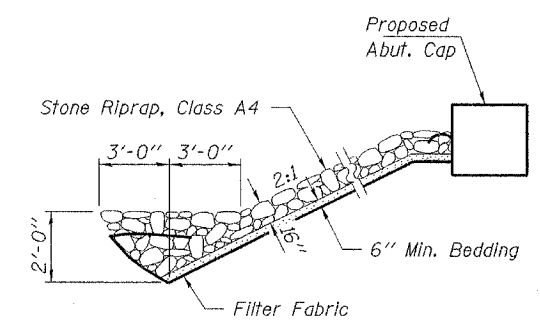
PLAN

RICHLAND CREEK
 BUILT 200_ BY
 SHELBY COUNTY
 SEC. 06-03113-00-BR
 CLARKSBURG ROAD DISTRICT
 F.A. PROJ. BROS-173(157)
 STR. NO. 087-3561 LOADING HS 20

NAME PLATE
 See Std. 515001



LOCATION SKETCH



SECTION A-A

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Ton			450
Filter Fabric	Sq. Yd.			623
Structure Excavation	Cu. Yd.		88	88
Concrete Structures	Cu. Yd.		85.5	85.5
Concrete Encasement	Cu. Yd.		2.8	2.8
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,488		1,488
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,536		1,536
Reinforcement Bars	Pound		8,400	8,400
Steel Railing, Type S1	Foot	255		255
Steel Piles HP10x42	Foot		410	410
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Setting Piles in Rock	Each		10	10
Underwater Structure Protection - Location 1	Each			1
Underwater Structure Protection - Location 2	Each			1

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
 f'ci = 4,000 psi
 f's = 270,000 psi (1/2" low lax. strands)
 f'si = 201,960 psi (1/2" low lax. strands)
 fy = 60,000 psi (Reinf.)

Loading HS 20-44
 Design Specifications: 2002 AASHTO & all applicable interims.
 25#/Sq. Ft. included in dead load for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.065g
 Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area = 41.6 Sq. Mi. Low Grade Elev. 547.9 @ Sta. 5+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	15	4,100	990	1,040	549.9	0.1	0.1	550.0	550.0
Base	100	6,450	1,090	1,170	551.1	0.1	0.1	551.2	551.2
Max. Calc.	500	8,330	1,130	1,210	551.9	0.2	0.2	552.1	552.1

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 Standard Specifications for Highway Bridges".

Steven W. Mezzanin 1/27/08
 ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-08

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
ELGIN • SPRINGFIELD
 PROJECT NUMBER: 12-87-0018-1 DATE: 01/23/08
 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.T.M.

GENERAL PLAN AND ELEVATION
SECTION 06-03113-00-BR
CLARKSBURG ROAD DISTRICT
SHELBY COUNTY
STRUCTURE NO. 087-3561 / STATION 10+00