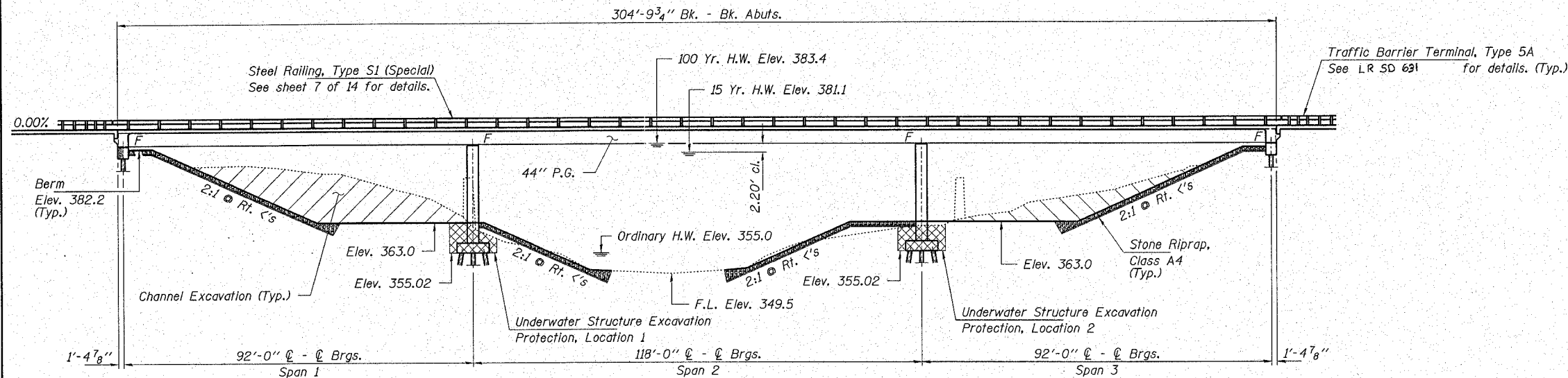


Bench Mark: T.B.M. #2 - PK Nail in P.P. N.W. of bridge. Elev. 387.34

Existing Structure: No. 097-3030 - A single span thru truss bridge with two pony truss approach spans with a concrete deck on concrete piers and closed concrete abutments.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 882	84-00059-00-BR	WHITE	22	9
FED. ROAD DIST. NO. 9		ILLINOIS	CONTRACT NO. 99268	

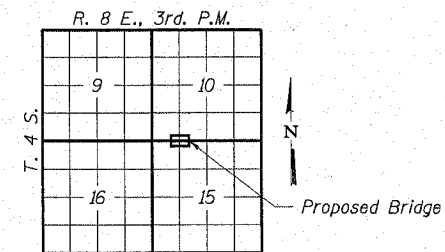
Sheet 1 of 14



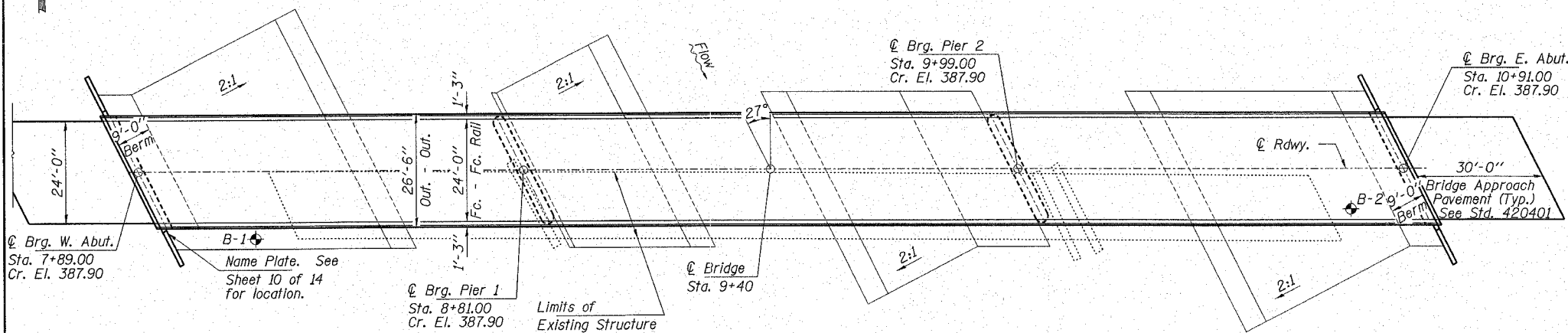
ELEVATION

SKILLET FORK
BUILT 200 BY
WHITE COUNTY
SEC. 84-00059-00-BR
F.A.S. ROUTE 882
F.A. PROJ. BRS-882(108)
STR. NO. 097-3186 LOADING HS 20

NAME PLATE
See Std. 515001



LOCATION SKETCH



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Concrete Superstructure	Cu. Yd.	225.0		225.0
Concrete Structures	Cu. Yd.		244.0	244.0
Furnishing and Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	56,950	28,880	85,830
Steel Piles HP10x42	Foot		1,000	1,000
Test Pile Steel HP10x42	Each		2	2
Steel Piles HP12x63	Foot		2,890	2,890
Test Pile Steel HP12x63	Each		2	2
Driving Piles	Foot		3,890	3,890
Name Plates	Each		1	1
Concrete Encasement	Cu. Yd.		3.1	3.1
Structure Excavation	Cu. Yd.		256	256
Bridge Deck Grooving	Sq. Yd.	1,058		1,058
Stud Shear Connectors	Each	2,240	312	2,552
Protective Coat	Sq. Yd.	1,114		1,114
Bar Splicers	Each		48	48
Steel Railing, Type S1 (Special)	Foot		615	615
Underwater Str. Exc. Protection, Location 1	Each		1	1
Underwater Str. Exc. Protection, Location 2	Each		1	1
Stone Riprap, Class A4	Ton			700
Filter Fabric	Sq. Yd.			1,096
Bridge Approach Pavement	Sq. Yd.	160		160
Porous Granular Embankment	Ton			210
Geocomposite Wall Drain	Sq. Yd.			59.0
Pipe Underdrains for Structure, 4"	Foot			128
Concrete Headwalls for Pipe Drains	Each			4

DESIGN SPECIFICATIONS

2002 AASHTO & Applicable Interims

LOADING HS 20-44

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_y = 50,000$ p.s.i. (Structural Steel) (M270 Gr. 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10g
Site Coefficient (S) = 1.5

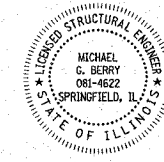
WATERWAY INFORMATION

		Drainage Area = 928 Sq. Mi.		Low Grade Elev. 374.9 @ Sta. 0+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Natural H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	15	22,160	① ③	381.1	0.0	381.1
Base	100	32,600	② ④	383.4	0.0	383.4
Overtopping	1	4,500	2,320 3,480	375.0	0.0	375.0
Max. Calc.	500	N/A				

- ① Br. 2,950 Ap. 34,000
- ② Br. 2,950 Ap. 89,000
- ③ Br. 4,580 Ap. 31,500
- ④ Br. 5,160 Ap. 84,000

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".

Michael M. Berry 1/23/07
ILLINOIS STRUCTURAL NO. 081-4622



Expires 11-30-08

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 548-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-08-0013-1 DATE: 01/18/07
DESIGNED: M.G.B. CHECKED: S.W.M. DRAWN: D.B.

GENERAL PLAN AND ELEVATION

F.A.S. ROUTE 882
SECTION 84-00059-00-BR
WHITE COUNTY
STRUCTURE NO. 097-3186 / STATION 9+40