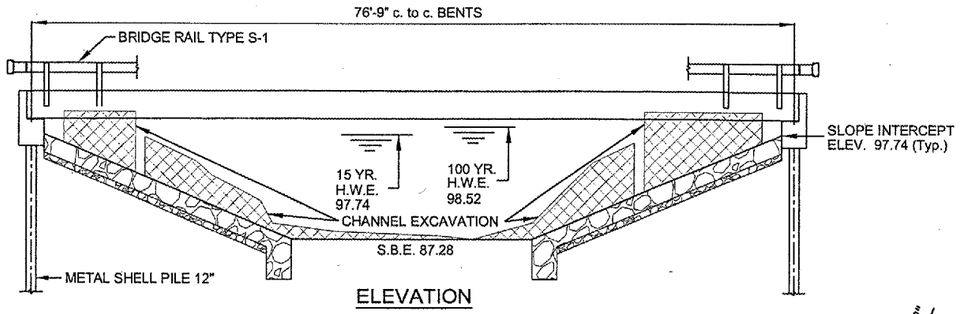
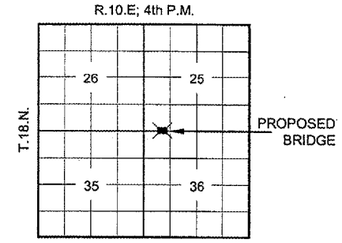
B.M. - Centerline of existing structure, Elev. - 100.00
Existing Structure - C.I.P. Reinforced Concrete
Thru Girder Closed Abutment Bridge
16' Roadway, 49' Clear Span



ELEVATION

Note: In accordance with Article 502.15 of the Standard Specifications, the cost for structure excavation shall be considered as included in the contract unit price for Concrete Structures.



LOCATION SKETCH
LaMoille Township

GENERAL NOTES

1. The Contractor shall drive 1 test pile, at the West Abutment as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
4. The abutments shall not be backfilled until the deck beams are in place and the dowel pins have been grouted and cured.
5. Reinforcement bars shall conform to AASHTO M-31, M-42 or M-53, Grade 60.

DESIGN SPECIFICATIONS

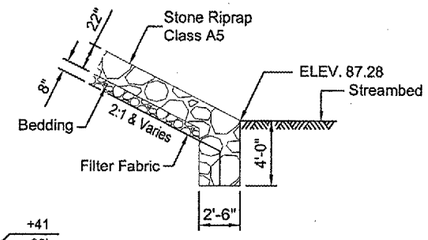
2002 AASHTO w/ Applicable Interims
HS20-44 Loading Load Factor Design
Includes 25 psf for future wearing surface

ROUTE NO.	SECTION	TOTAL SHEETS	SHEET NO.
T.R. 87	05-12124-00-BR	9	6
CONTRACT 87329	ILLINOIS	FED. AID PROJ.- BROS-011(68)	

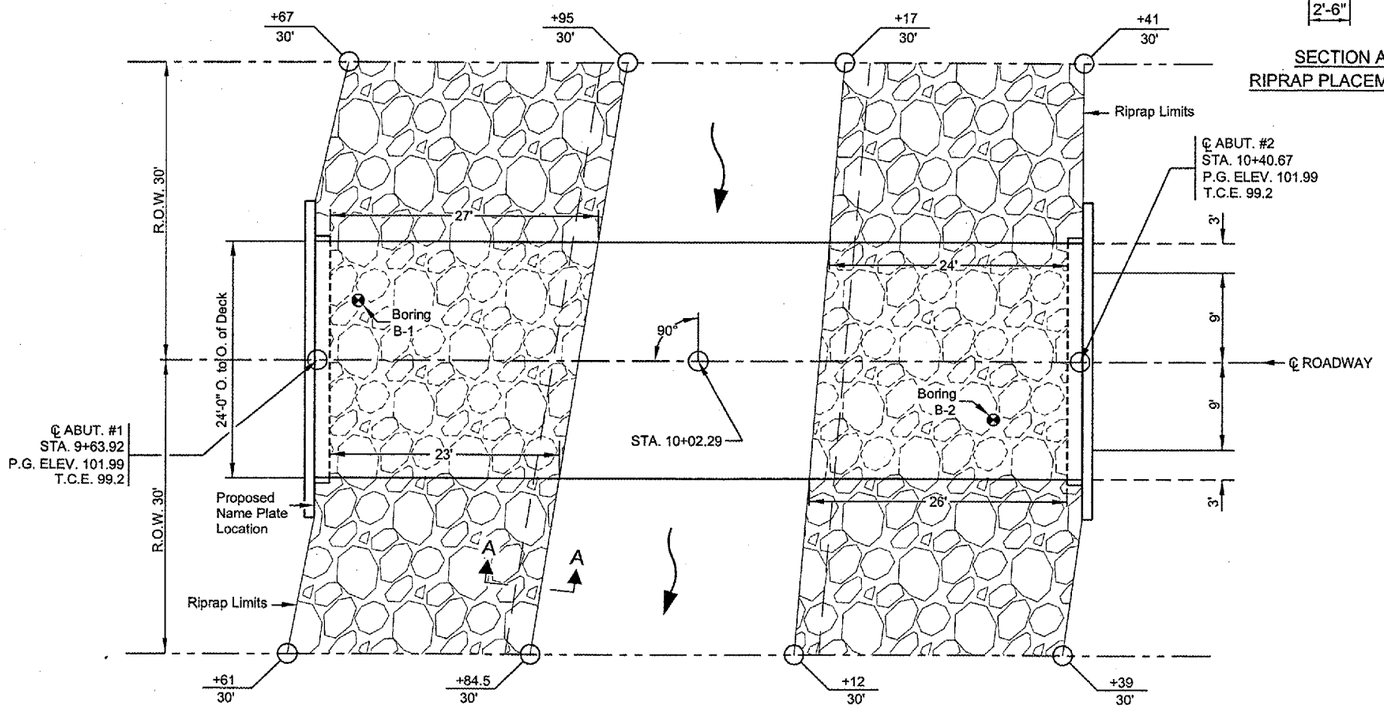
PIKE CREEK
BUILT 2007 BY
BUREAU COUNTY
LAMOILLE ROAD DISTRICT
TR 87 STA. 10+02.29
SECTION 05-12124-00-BR
STR. NO. 006-4410 LOADING HS-20

LETTERING FOR NAME PLATE

See Std. 515001-02



SECTION A-A
RIPRAP PLACEMENT DETAIL



PLAN

PILE DATA (2-ABUTS.)

Type	12" Metal Shell
Capacity	38 Tons
Estimated Length	45'
Number Required	10 (Includes 1 Test Pile located in Bent #1)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Structures	Each			1
Channel Excavation	Cu. Yd.		370	370
Concrete Structures	Cu. Yd.		18.6	18.6
Dumped Riprap Special	Ton		369	369
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1,864		1,864
Steel Railing Type S-1	Foot	156		156
Reinforcement Bars (Epoxy Coated)	Pound		2,080	2,080
Furnish Metal Pile Shells 12"	Foot		405	405
Driving & Filling Shells	Foot		405	405
Test Pile Metal Shells	Each		1	1
Name Plates	Each		1	1
Portland Cement Mortar Frg. Cse.	Foot	592		592

WATERWAY INFORMATION

Drainage Area = 25.44 sq. mi. Low Grade Elev. = 97.69 @ Sta. 14+41

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	1870	357	503	97.74	0.28	0.23	98.02	97.97
Base	100	2858	371	573	98.52	0.27	0.06	98.79	98.58

"I CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS"

JEFFREY E. PEACOCK, P.E.
COUNTY ENGINEER
ILL. REG. PROF. ENG.# 62-044399 4/24/06
LICENSE RENEWAL DATE: 11/30/07

LICENSED PROFESSIONAL ENGINEER
JEFFREY E. PEACOCK
062-044399
STATE OF ILLINOIS

I CERTIFY 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 THE REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."

LICENSED STRUCTURAL ENGINEER
KEITH E. BRANDAU
081-004905
CHAMPAIGN
STATE OF ILLINOIS

Keith E Brandau 4/19/06

KEITH E. BRANDAU
ILLINOIS LICENSED
STRUCTURAL ENGINEER
NUMBER 081-004905
LICENSE EXPIRES 11/30/06

GENERAL PLAN & ELEVATION
T.R. 87
OVER PIKE CREEK
SECTION 05-12124-00-BR
STATION 10+02.29