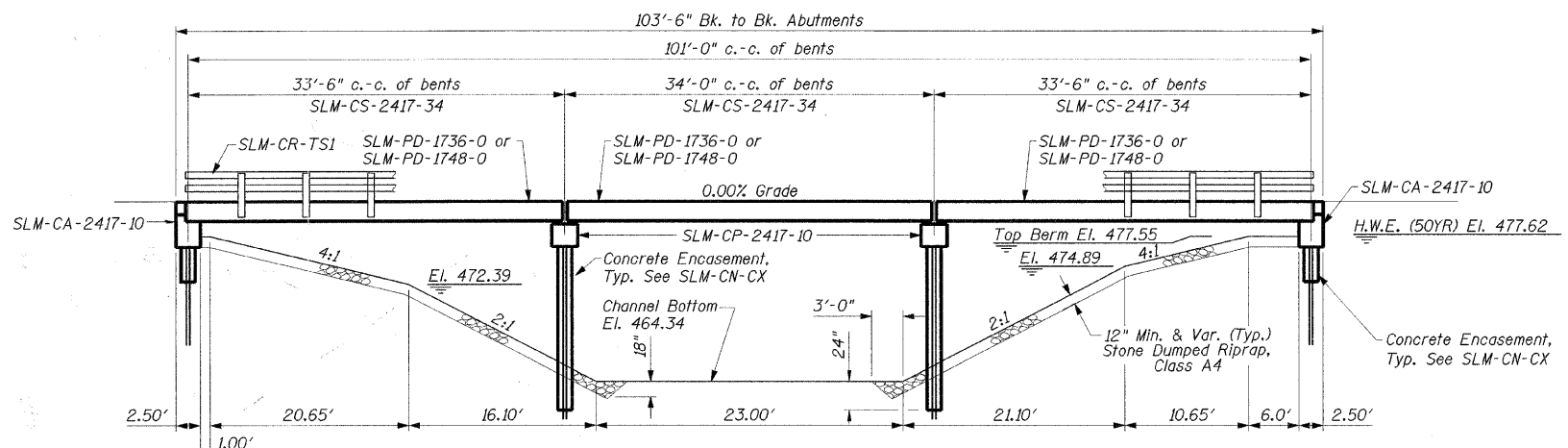


B.M. - B.M. #1 R.R. spike in 12" tree, 26.4' LT., STA. 48+69.5, EL. 474.52
 B.M. #2 Chisled 'X' on conc. slopewall, 79.4' RT., STA. 51+53.1, EL. 480.86

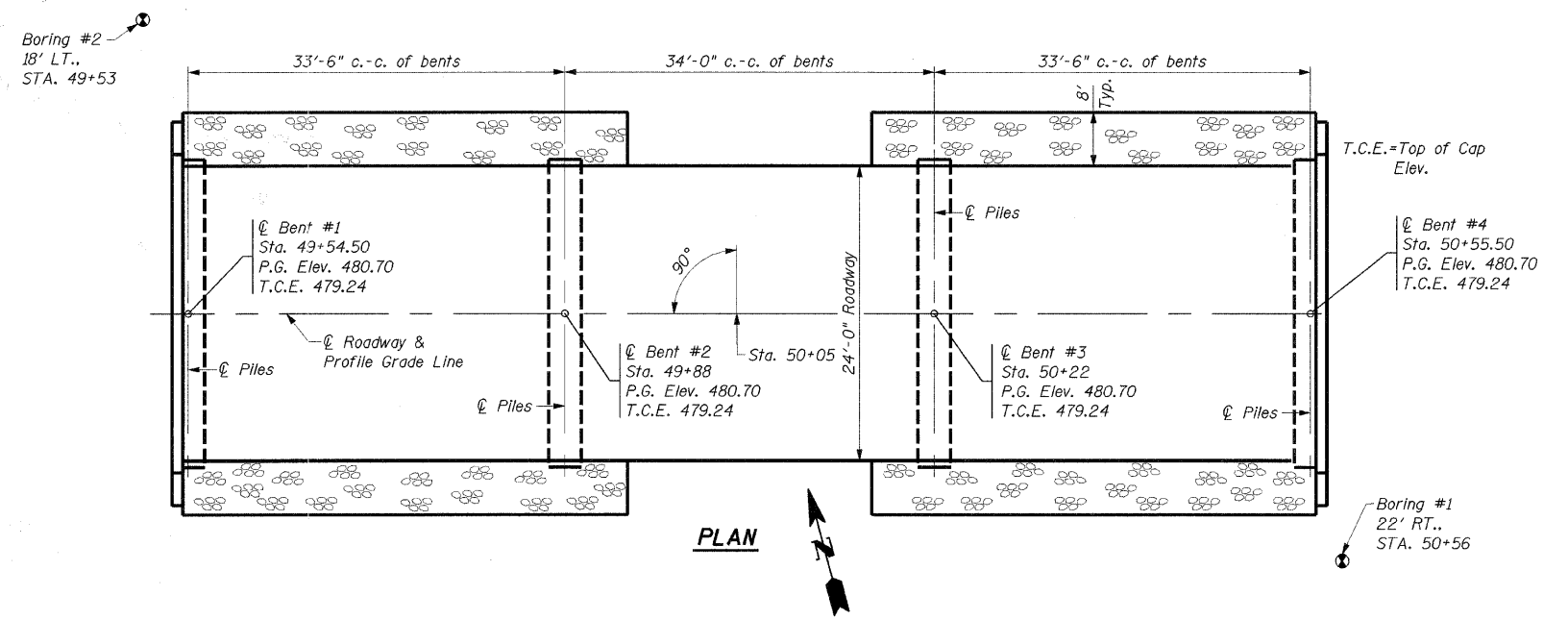
Existing Structure - The existing structure is three span concrete deck beams supported by abutments and piers with concrete caps and timber piles with steel railing and concrete curbs.

Salvage - None.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.R. 1114	09-18120-00-BR	FAYETTE	14	4
FED. AID PROJECT		ILLINOIS	PROJECT BROS-05110891	
CONTRACT NO. 95630				



ELEVATION



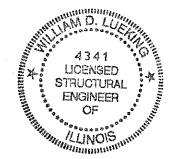
PLAN

GENERAL NOTES

- The contractor shall drive 1 test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.
- A Calcium Nitrite Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yd.		14.8	16.6	31.4
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2448			2448
Steel Railing, Type S-1	Foot	204			204
Reinforcement Bars	Pound		2040	2340	4380
Furnishing Steel Pile HP 10x42	Foot			376	376
Furnishing Steel Pile HP 12x53	Foot		448		448
Driving Piles	Foot		448	376	824
Test Pile Steel HP 12x53	Each		1		1
Name Plates	Each			1	1
Concrete Encasement	Cu. Yd.		12.7	2.1	14.8
Pile Shoes	Each		8	8	16

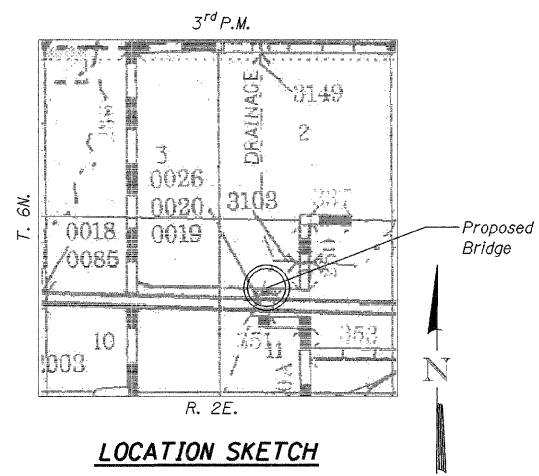


Date: 3-18-2010

Date of License 11/30/2010
 Expiration: 11/30/2010

Signature: William D. Lucking

I certify that to the best of knowledge, information and belief, this bridge/box culvert 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.



LOCATION SKETCH

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 22.9
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 51
 Soil Site Class = D

LOADING HL-93

Allow 50# / Sq. Ft. for Future Wearing Surface.

PILE DATA (2-PIERS)

Pile Type and Size: Steel Piles, HP12x53
 Nominal Required Bearing: 282 kips
 Allowable Resistance Available: 94 kips
 Estimated Pile Length: 67 Feet Bent #2, 60 Feet Bent #3
 Number of Production Piles: 7 (Provide Pile Shoes)
 Number of Test Piles: 1 (located in Bent #3) (Provide Pile Shoes)

PILE DATA (2-ABUTS.)

Pile Type and Size: Steel Piles, HP10x42
 Nominal Required Bearing: 186 kips
 Allowable Resistance Available: 62 kips
 Estimated Pile Length: 51 Feet Bent #1, 43 Feet Bent #4
 Number of Production Piles: 8 (Provide Pile Shoes)
 Number of Test Piles: 0

STATION 50+05
 CAMP CREEK
 SEC. 09-18120-00-BR BUILT 20____
 PROJECT NO. BROS-05110891
 FAYETTE COUNTY
 LOADING HL93
 STR. NO. 026-3447

DESIGN SCOUR ELEVATION TABLE

Design Scour Elev. (Ft.)	Bents 1 & 4	Bents 2 & 3
100 Yr. - φ = 1.0	473.3	458.3

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E. Ft.	Head - Ft.		Headwater Elev. - Ft.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50		657	667	477.62				
Base									
Overtopping									
Max. Calc.	500								

LETTERING FOR NAME PLATE

Locate Name Plate at Southeast Corner of Bridge (See SLM-CN-CX)

INDEX OF SHEETS

- General Plan & Elevation
- SLM-CS-2417-34
- SLM-PD-1736-0
- SLM-PD-1736-0D
- SLM-PD-1748-0
- SLM-PD-1748-0D
- SLM-CA-2417-10
- SLM-CP-2417-10
- SLM-CR-TS1
- SLM-CN-CX

 2524 S. Broadway Salem, Illinois 62881 618.548.3500 IL Design Firm Reg. No. 184-003175 No. 184-003706 www.aecom.com	GENERAL PLAN & ELEVATION	
	F.R. 1114 OVER CAMP CREEK	
Date: 03/18/10 Design: WDL Drawn: JSD Job No.: 60097890	SECTION 09-18120-00-BR FAYETTE COUNTY STATION 50+05	