

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

B.M. - B.M. #1, R.R. Spike in Power Pole, 27.31' RT., STA. 49+31.82, EL. 529.11  
B.M. #2, R.R. Spike in Power Pole, 30.24' RT., STA. 50+87.97, EL. 525.72

Existing Structure - Five Span Structure With a Timber Deck on Timber Stringers,  
Supported by Timber Caps and Timber Piling.

Existing Known Utilities - Overhead electric, Telephone, Water

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2792	00-0014-00-BR	MARION	14	4
FED. ROAD DIST. NO.	ILLINOIS	PROJECT	CONTRACT NO. 95461	

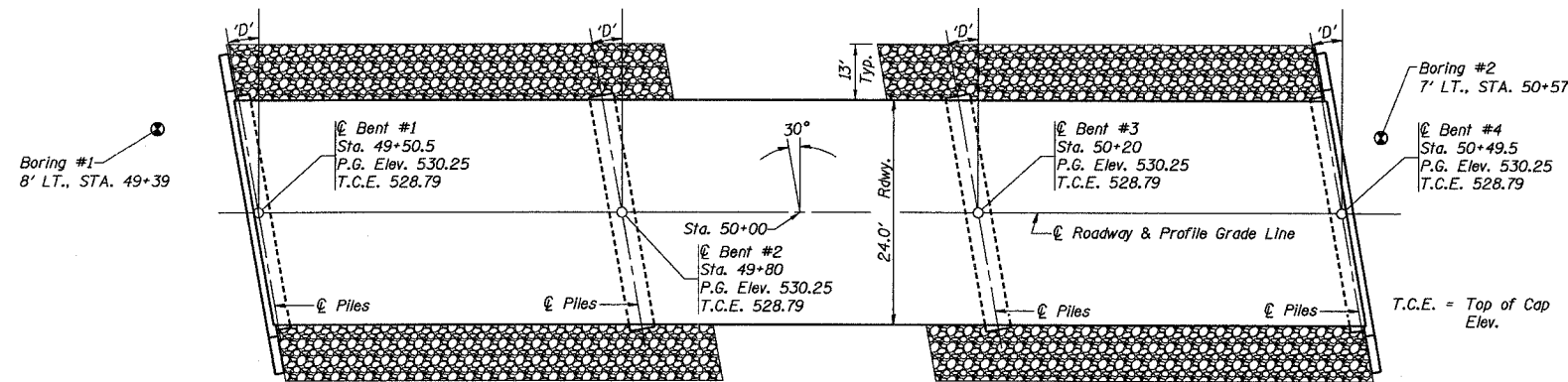
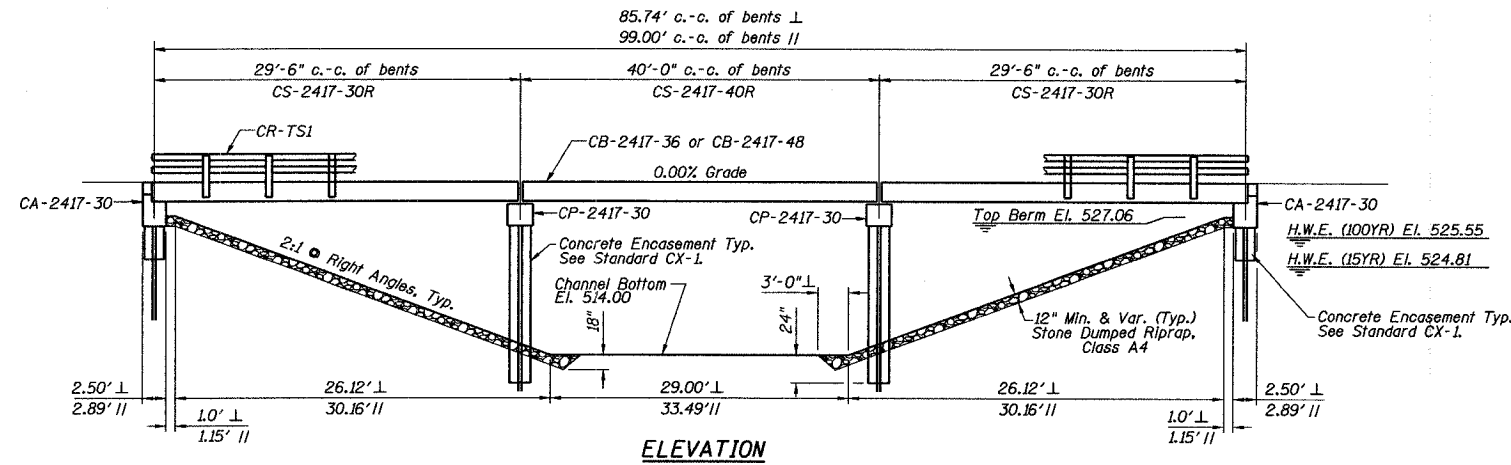
Note:  
// Dimensions are parallel to roadway  
⊥ Dimensions are perpendicular to channel

GENERAL NOTES

- The contractor shall drive 2 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.
- The Waterproofing Membrane System and Bituminous Concrete Surface Course Shown on the Standards Shall Not be Provided.

TOTAL BILL OF MATERIAL

Item	Unit	Sub.		Total
		Super	Piers	
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		17.4	19.4
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2400		2400
Steel Railing, Type S-1	Foot	200		200
Reinforcement Bars	Pound		2140	2540
Furnishing Steel Piles HP 12x53	Foot		504	504
Furnishing Steel Piles HP 10x42	Foot			504
Driving Steel Piles	Foot		504	1008
Test Pile Steel HP 10x42	Each			1
Test Pile Steel HP 12x53	Each		1	1
Name Plates	Each			1
Concrete Encasement	Cu. Yd.		12.6	2.1
Metal Shoes	Each		4	4



The standard detail sheets for this structure were assembled by me or persons under my direct supervision.

Date: 1-24-06

Date of License  
Expiration: 11-30-2006

Signature: William D. Lueking  
William D. Lueking



DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS 20-44

Allow 25# / Sq. Ft. for Future Wearing Surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.09  
Site Coefficient (S) = 1.5

PILE DATA (2-PIERS)

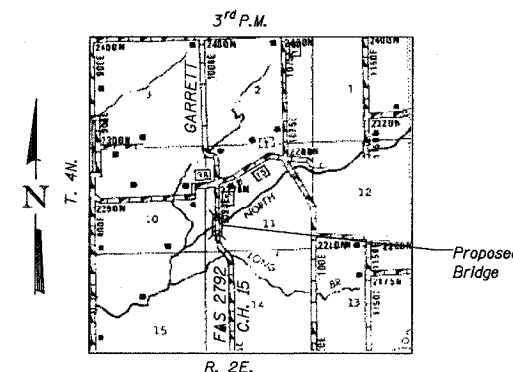
Type: HP12x53  
Capacity: REFUSAL  
Estimated Length: 72 Feet  
Number Required: 8 (Includes 1 Test Pile located in Bent #2)  
Provide Metal Shoes for Piles - Bent #2

PILE DATA (2-ABUTS.)

Type: HP10x42  
Capacity: REFUSAL  
Estimated Length: 72 Feet  
Number Required: 8 (Includes 1 Test Pile located in Bent #1)  
Provide Metal Shoes for Piles - Bent #1

STATION 50+00  
NORTH FORK CREEK  
SEC. 00-0014-00-BR BUILT 20-  
PROJECT NO. BR0S-2792(105)  
MARION COUNTY  
LOADING HS20  
STR. NO. 061-3300

LETTERING FOR NAME PLATE  
Locate Name Plate at Northeast  
Corner of Bridge (See Std. CN)



LOCATION SKETCH

WATERWAY INFORMATION

Flood		Q		Opening Sq. Ft.		Nat. H.W.E. Ft.		Head - Ft.		Headwater Elev. - Ft.	
Freq. Yr.	C.F.S.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	15	1627	413	509	524.81	N/A	0.33	N/A	525.14		
Base	100	2555	457	561	525.55	N/A	0.69	N/A	526.24		
Overtopping											
Max. Calc.	500										

Drainage Area = 13.25 Sq. Mi. Low Grade Elev. 529.73 @ Sta. 52+60

INDEX OF SHEETS

- General Plan & Elevation
- Standard CS-2417-30R
- Standard CS-2417-40R
- Standard CB-2417-36
- Standard CB-2417-48
- Standard CA-2417-30
- Standard CP-2417-30
- Standard CR-TS1
- Standard CN
- Standard CX-1

GENERAL PLAN & ELEVATION

FAS 2792 OVER  
NORTH FORK CREEK

SECTION 00-0014-00-BR  
MARION COUNTY  
STATION 50+00