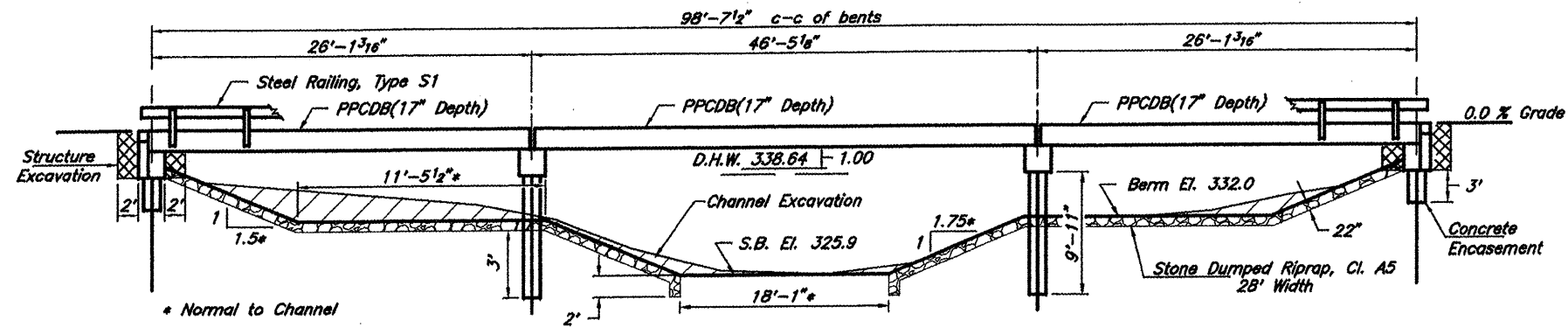


B.M. - Railroad spike in Power Pole
17' Left of Station 1+87
Assumed Elevation 340.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 23	09-01181-00-BR	PULASKI	13	3
PROJECT NO. BROS-153(31)			CONTRACT NO. 99421	

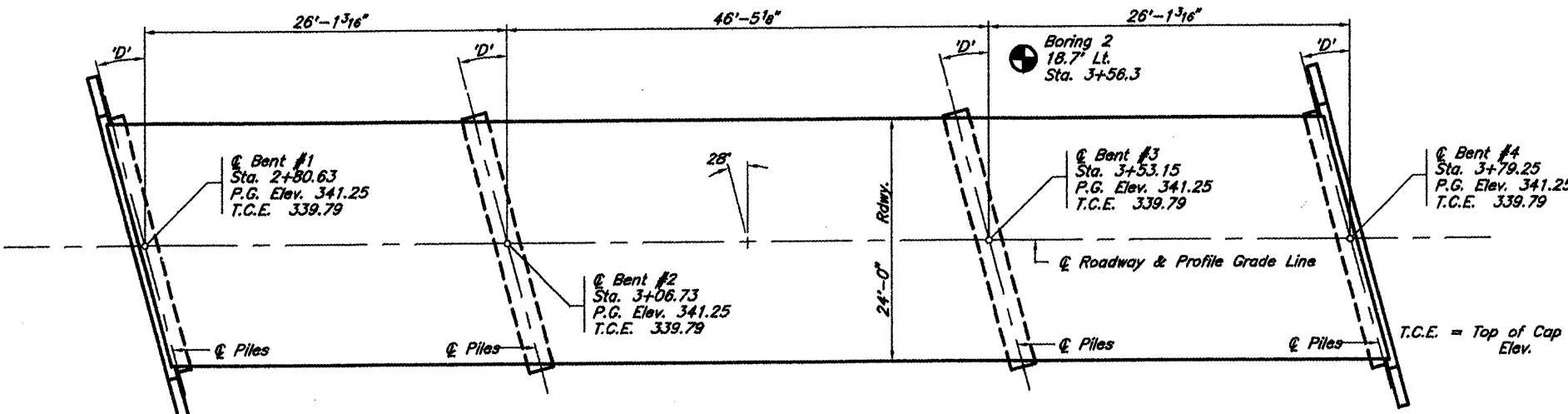


Existing Structure - 3 span cast-in-place concrete deck on concrete caps with spill-thru timber pile bent abutments and piers. 28.3' Wide x 89.9' Long

ELEVATION

GENERAL NOTES

1. Metal Shell piles shall meet ASTM A 252 Grade 3 specifications.
2. Test Piles shall be driven to 110% of the Nominal Required Bearing indicated in the pile data.
3. The Contractor shall drive one test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
4. See special provisions for boring logs.
5. A Corrosion inhibitor, as covered in the Standard Specifications, shall be used in the precast prestressed concrete deck beams.



PLAN

Skew Angle "D" = 28° Right Forward

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Channel Excavation	Cu. Yds.				107
Stone Dumped Riprap, Class A5	Tons				325
Removal of Existing Structures	Each				1
Structure Excavation	Cu. Yds.			27	27
Concrete Structures	Cu. Yds.		17.2	18.6	35.8
Concrete Encasement	Cu. Yds.		6.9	2.1	9.0
P.P. Conc. Dk. Bm. 17" Dp.	Sq. Ft.	2,384			2,384
Reinforcement Bars	Pound		2,214	2,450	4,664
Steel Railing, Type S1	Foot	202			202
Furnishing Metal Shell Piles 12"x0.250"	Foot		434	392	826
Driving Piles	Foot		434	392	826
Test Pile Metal Shells	Each		1		1
Name Plates	Each			1	1

Boring 1
22.9' Rt.
Sta. 2+50.3

PILE DATA (2-PIERS)

Type & Size : Metal Shell 12"x0.250"
Nominal Required Bearing : 256 kips
Factored Resistance Available : 128 kips
Estimated Length : 62 Feet
Number Required : 8 (Includes 1 Test Pile located in Bent #2)

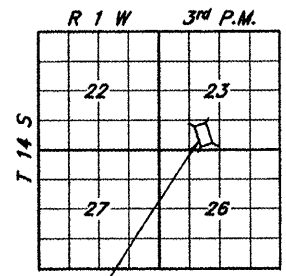
PILE DATA (2-ABUTS.)

Type & Size : Metal Shell 12"x0.250"
Nominal Required Bearing : 156 kips
Factored Resistance Available : 78 kips
Estimated Length : 52 Feet S. Abut., 45 Feet N. Abut.
Number Required : 8

INDIAN CAMP CREEK
SEC. 09-01181-00-BR BUILT 20
COUNTY UNIT ROAD DISTRICT
PULASKI COUNTY
LOADING HL-93
STR. NO. 077-3141

LETTERING FOR NAME PLATE

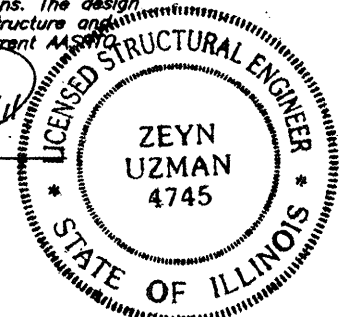
Locate Name Plate at Southeast Corner of Bridge (See Sheet B)



PROPOSED BRIDGE LOCATION SKETCH

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 type of structure and comply with the requirements of the current AASHTO LRFD Specifications.

Zeyn B. Uzman
S.E. #81-4745
Expires Nov 30, 2012



DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications and all applicable interims.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

SEISMIC DATA

Soil Site Class = E
Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 1.447
Design Spectral Acceleration at 1.0 sec. (S_{0.1}) = 0.996
Seismic Performance Zone (SPZ) = 4

WATERWAY INFORMATION

Drainage Area = 39.5 Sq. Mi.		Low Grade Elev. = 339.42		At Sta. 1+27					
Flood Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Head-Ft. Exist.	Prop.				
Design	30	5,880	563.1	658.1	338.64	1.26	0.46	339.90	339.10
Base	100	7,490	563.1	738.8	339.60	1.02	0.80	340.62	340.40
Overtopping									
Max. Calc.	500								

Over Road Flow (Sq Ft): Exist. 191.4 506.4

Notes: No over road flow used for proposed structure to allow for future raising of the approaches.

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 23 (ELCO ROAD)
INDIAN CAMP CREEK
SECTION 09-01181-00-BR
PULASKI COUNTY
STRUCTURE NO. 077-3141