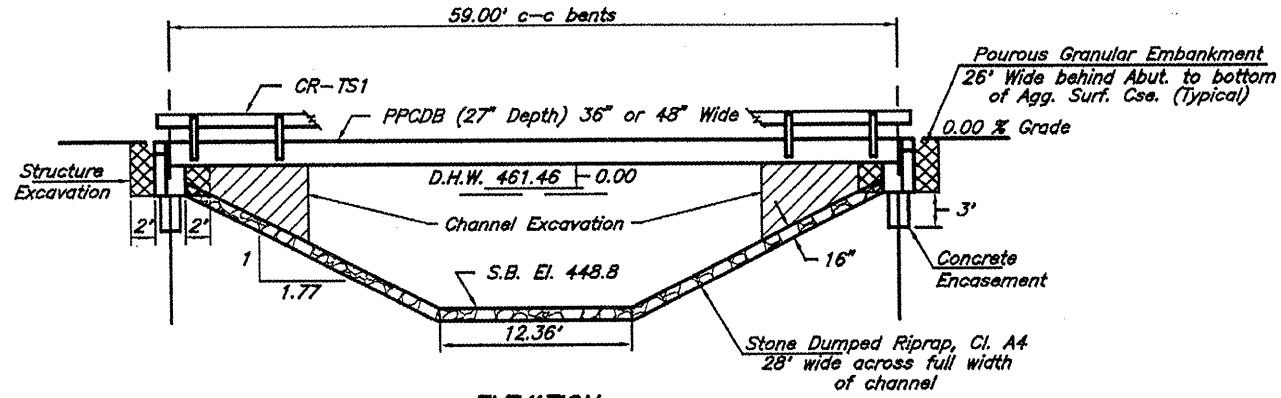


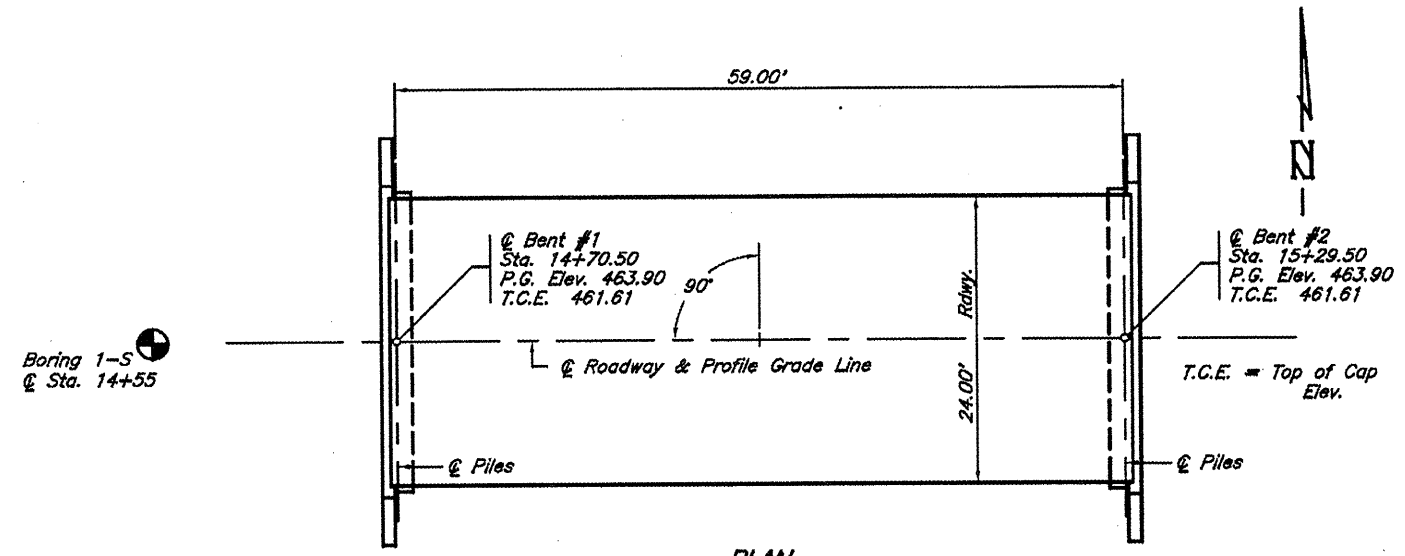
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 21	00-07118-00-BR	PERRY	11	3
PROJECT NO. BROS-145(35)			CONTRACT NO. 99349	

B.M. - Double nail in Power Pole
24' Rt. of Station 14+47
Assumed Elev. 460.00



ELEVATION

Existing Structure - Single span concrete deck on steel stringers with closed concrete abutments 40.5' L X 14.1' W



PLAN

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.
6. The Bituminous Concrete Surface Course and the Waterproofing Membrane System shown on the plans shall not be provided.

TOTAL BILL OF MATERIAL

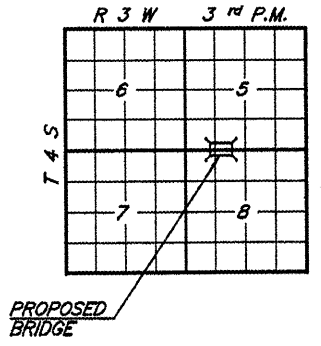
Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yds.			17.6	17.6
P.P. Conc. Dk. Brn. 27" Dp.	Sq. Ft.	1438			1438
Steel Railing, Type S1	Foot	120			120
Reinforcement Bars	Pound			2290	2290
Furnishing Metal Shell Piles 12" X 0.250"	Foot			399	399
Driving Piles	Foot			399	399
Test Pile Metal Shells	Each			1	1
Concrete Encasement	Cu. Yds.			2.1	2.1
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			16	16
Channel Excavation	Cu. Yds.			41	41
Stone Dumped Riprap, Class A4	Tons			190	190
Porous Granular Embankment	Tons			33	33

Boring 1-S
@ Sta. 14+55

SWANWICK CREEK
SEC. 00-07118-00-BR BUILT 20____
COUNTY UNIT ROAD DISTRICT
PERRY COUNTY
LOADING HS20
STR. NO. 073-3174

LETTERING FOR NAME PLATE

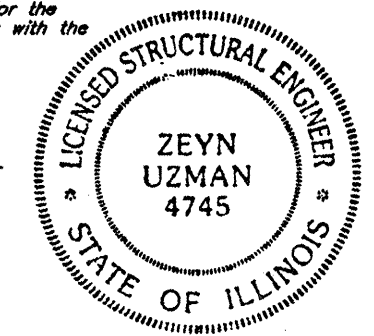
Locate Name Plate at southwest Corner of Bridge (See Std. CN)



PROPOSED BRIDGE
LOCATION SKETCH

I certify that to the best of my knowledge, information and belief, the revised standard detail sheets and/or special component sheets included with the standard bridge detail sheets are structurally adequate for the design loading shown on the plans and comply with the requirements of the current AASHTO Standard Specifications for Highway Bridges.

Zeyn B. Uzman
Zeyn B. Uzman
S.E. #81-4745
Expires Nov. 30, 2010



PILE DATA (2-ABUTS.)

Type & Size : Metal Shell 12" dia. x 0.25" walls
Nominal Required Bearing : 243 kips
Allowable Resistance Available : 81 kips
Estimated Length : 57 Feet
Number Required : 8 (Includes 1 Test Pile located in Bent #2)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

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

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 11.4%
Site Coefficient (S) = 1.2

WATERWAY INFORMATION

Flood		Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Natural H.W.E. Exist. Prop.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design		15	2,846	354.3* 475.4	461.46 475.4	0.00 0.39	461.46 461.85
Base		100	4,275	354.3* 475.4*	462.16 462.16	0.00 0.30	462.16 462.46
Overtopping		±16	2,880	475.4	461.48	0.44	461.92
Max. Calc.		500	5,381	475.4*	462.60	0.24	462.84

Over Road Flow (Sq Ft): Exist. 1,250.1 1,930.7 Prop. 1,421.0 2,547.0
Note: Proposed over road flow calculated above El. 461.92 anticipating future raising of roadway

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 21
SWANWICK CREEK
SECTION 00-07118-00-BR
PERRY COUNTY
STATION 15+00