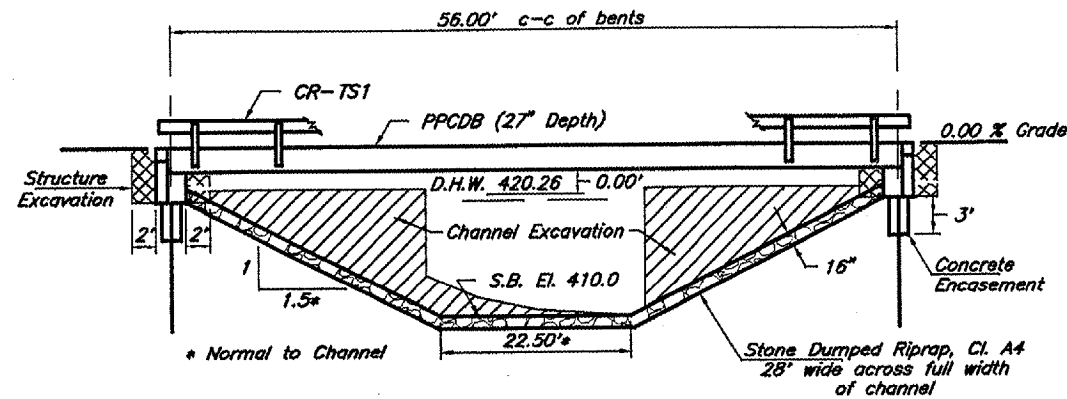


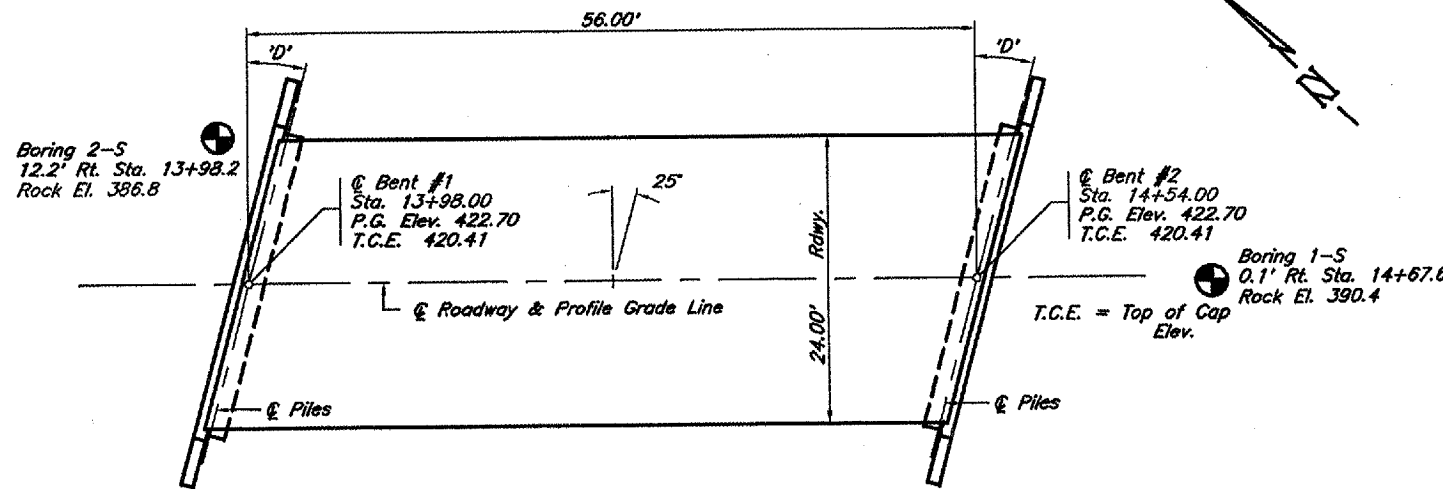
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 222	02-06116-00-BR	PERRY	10	3
PROJECT NO. BROS-145(32)			CONTRACT NO. 99212	

B.M. - Double nail in 19" tree  
22' Lt. Sta. 15+29  
El. 420.00 (Assumed)



**ELEVATION**

Existing Structure - Single span concrete deck on steel stringers with closed concrete abutments. 14.2' W x 22.0' L



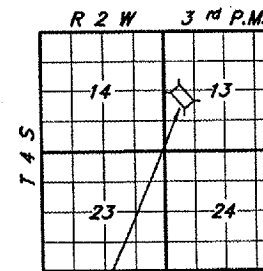
**PLAN**

Skew Angle "D" = 25' Left Forward

LITTLE BEAUCOUP CREEK  
SEC. 02-06116-00-BR BUILT 20  
COUNTY UNIT ROAD DISTRICT  
PERRY COUNTY  
LOADING HS20  
STR. NO. 073-3177

**LETTERING FOR NAME PLATE**

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



**LOCATION SKETCH**

**PILE DATA (2-ABUTS.)**

Type & Size : HP10X42  
Nominal Required Bearing : 246 kips  
Allowable Resistance Available : 82 kips  
Estimated Length : 35 Ft. Bent #1, 32 Ft. Bent #2  
Number Required : 8

**DESIGN SPECIFICATIONS**

2003 AASHTO Standard Specifications - 17<sup>th</sup> ed.

**LOADING HS20-44**

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

**SEISMIC DATA**

Seismic Performance Category (SPC) = B  
Bedrock Acceleration Coefficient (A) = 11.5%  
Site Coefficient (S) = 1.0

**WATERWAY INFORMATION**

Drainage Area = 9.74 Sq. Mi.		Low Grade Elev. = 417.3		At Sta. 10+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Natural H.W.E.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	15	1722	159.5 365.9	420.76	0.00 0.00	420.26 420.26
Base	100	2526	159.5 365.9	420.77	0.00 1.00	420.77 421.77
Overtopping	±205	3006		365.9 420.96		1.74 422.70
Max. Calc.	500					

Over Road Flow (Sq Ft): Exist. 1084.9 1388.7  
Note: Deck elevation used for overtopping to allow for future raising of the approaches

**GENERAL NOTES**

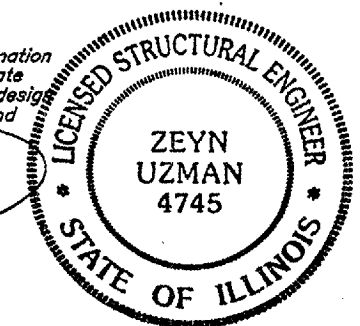
- Steel H piles shall meet AASHTO M270 Grade 50 specifications.
- See special provisions for boring logs.
- A Corrosion inhibitor, as covered in the Standard Specifications, shall be used in the precast prestressed concrete deck beams.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yds.			19.6	19.6
P.P. Conc. Dk. Bm. 27" Dp.	Sq. Ft.	1366			1366
Steel Railing, Type S1	Foot	114			114
Reinforcement Bars	Pound			2280	2280
Furnishing Steel Piles HP10X42	Foot			268	268
Driving Piles	Foot			268	268
Concrete Encasement	Cu. Yds.			2.1	2.1
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			23	23
Channel Excavation	Cu. Yds.				179
Stone Dumped Riprap, Class A4	Tons				183

"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 style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges."

Zeyn B. Uzman  
SE #84-5745  
Expires Nov. 30, 2008



GENERAL PLAN & ELEVATION  
TOWNSHIP ROUTE 222  
LITTLE BEAUCOUP CREEK  
SECTION 02-06116-00-BR  
PERRY COUNTY  
STATION 14+26