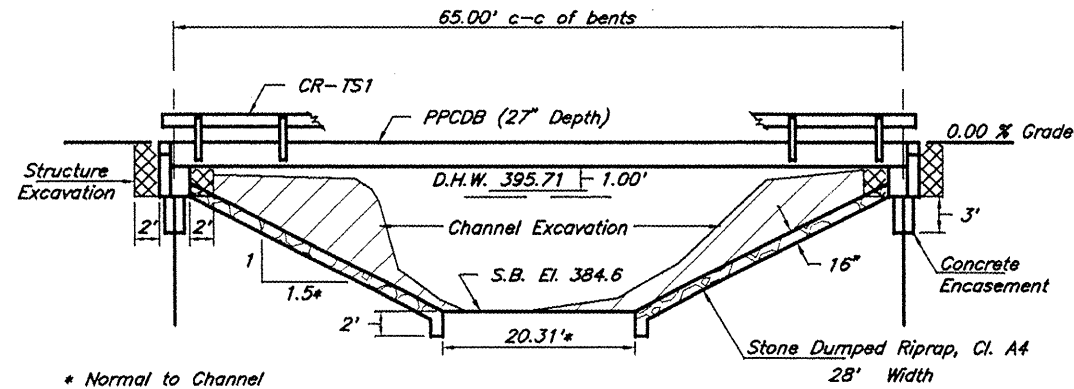


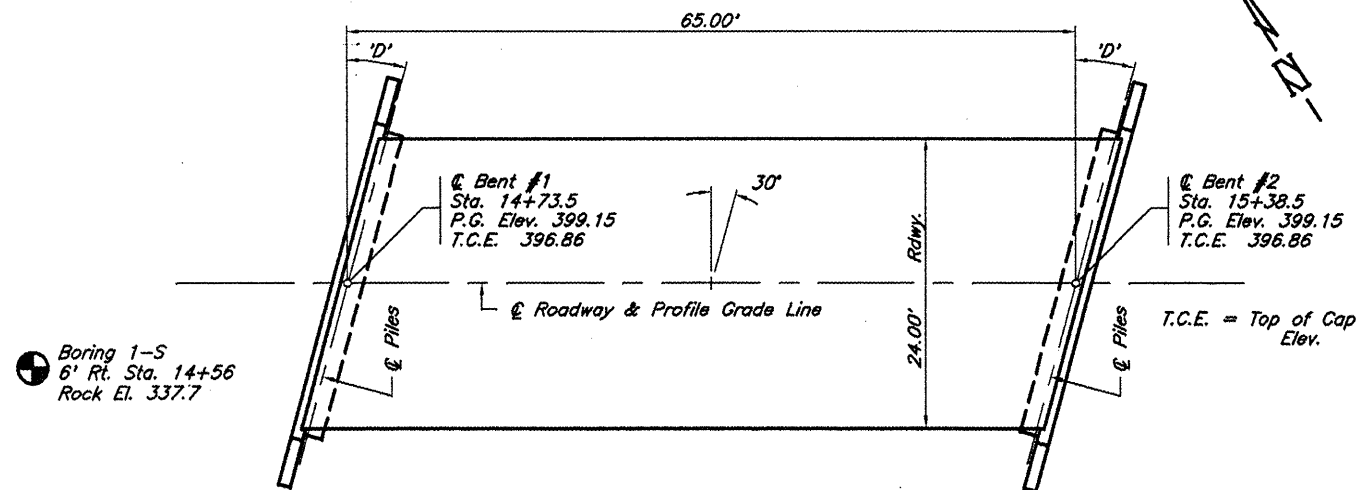
B.M. - PP spike in Power Pole
15' Rt. Station 14+08
Assumed Elev. 395.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 265	04-01181-00-BR	UNION	10	3
PROJECT NO. BROS-181(25)			CONTRACT NO. 99316	



ELEVATION

Existing Structure - Timber deck on steel stringers with closed concrete abutments
16'W x 30'L Deck El. 395.32



PLAN

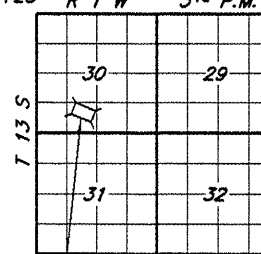
Skew Angle "D" = 30° Left Forward

LINGLE CREEK
SEC. 04-01181-00-BR BUILT 20
COUNTY UNIT ROAD DISTRICT
UNION COUNTY
LOADING HS20
STR. NO. 091-3226

LETTERING FOR NAME PLATE

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

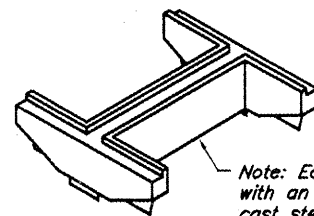
⊙ Boring 2-S
34' Rt. Sta. 15+28
Rock El. 371.7



LOCATION SKETCH

PILE DATA (2-ABUTS.)

Type & Size : HP10X42
Nominal Required Bearing : 335 kips
Allowable Resistance Available : 112 kips
Estimated Length : 54 Feet Bent #1, 29 Feet Bent #2
Number Required : 8 (Includes 1 Test Pile located in Bent #2)



Note: Each pile shall be provided with an "APF HardBite" point or cast steel alternate, of the proper size, subject to approval of the Engineer.

PILE SHOES

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) = 16.4%
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area = 6.140 Sq. Mi. Low Grade Elev. = 394.57 At Sta. 12+25

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	2,555	198.9*	410.8	395.71	1.41	0.00	397.12	395.71
Base	100	4,097	198.9*	464.6	397.57	0.09	0.98	397.86	398.55
Overtopping	±119	4,264		464.6	397.69		1.46		399.15
Max. Calc.	500								

Q(15) 539.0 Q(100) 902.6

* Over road flow area Exist. 539.0 902.6
Proposed deck elevation used for overtopping calculations.

GENERAL NOTES

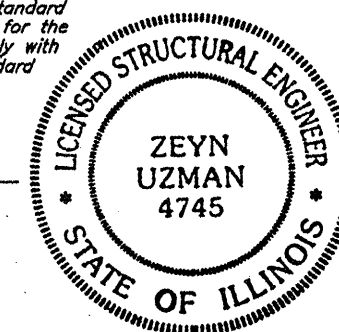
- Steel H piles shall meet AASHTO M270 Grade 50 specifications.
- Test Piles shall be driven to 110% of the Nominal Required Bearing indicated in the pile data.
- The Contractor shall drive one test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See special provisions for boring logs.
- A 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.			20.4	20.4
P.P. Conc. Dk. Bm. 27" Dp.	Sq. Ft.	1582			1582
Steel Railing, Type S1	Foot	132			132
Reinforcement Bars	Pound			2580	2580
Furnishing Steel Piles HP10X42	Foot			303	303
Driving Piles	Foot			303	303
Test Pile Steel HP10X42	Each			1	1
Concrete Encasement	Cu. Yds.			2.1	2.1
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			19	19
Channel Excavation	Cu. Yds.			324	324
Stone Dumped Riprap, Class A4	Tons			160	160
Pile Shoes	Each			8	8

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
S.E. #81-4745
Expires Nov. 30, 2008



GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 265
LINGLE CREEK
SECTION 04-01181-00-BR
UNION COUNTY
STATION 15+06