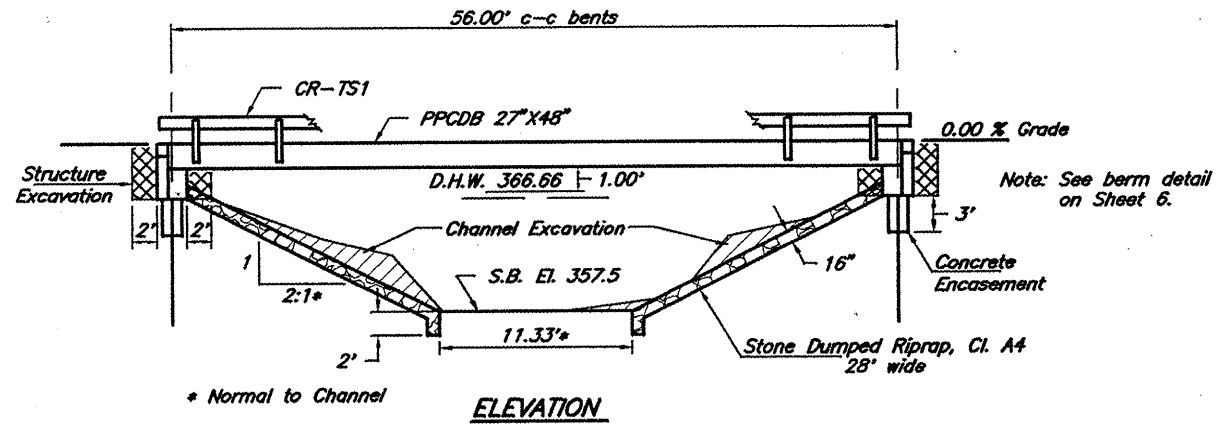
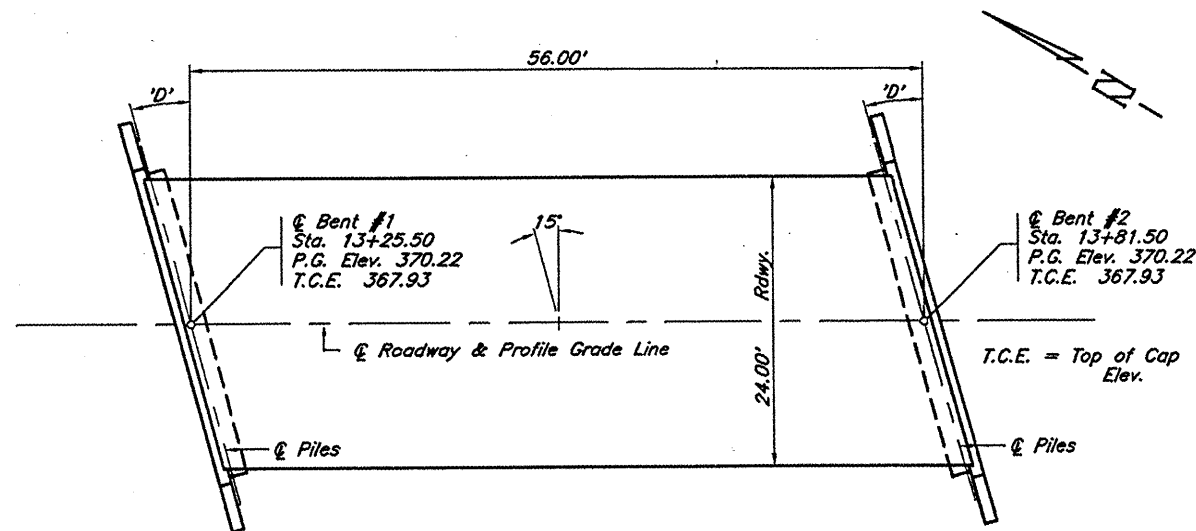


B.M. - RR Spike in Power Pole
126' Rt. Station 14+20
Assumed Elev. 370.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 14J	02-04118-00-BR	SALINE	11	4
PROJECT NO. BROS-165(26)			CONTRACT NO. 99315	



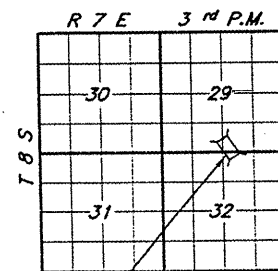
Existing Structure - Single span timber deck on steel stringers with closed timber pile bent abutments. 20'W x 60'L



Boring 1-S
98.2' Rt. Sta. 13+35.6
Rock El. 344.9

Skew Angle "D" = 15° Right Forward

Boring 2-S
131.2' Rt. Sta. 14+10.2
Rock El. 341.9



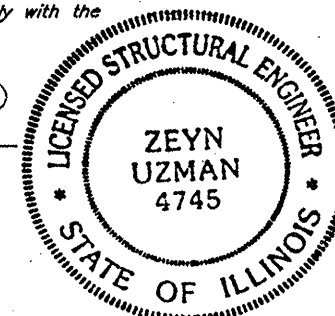
SPOIL BANK DITCH
SEC. 02-04118-00-BR BUILT 20
EAST ELDORADO TOWNSHIP
SALINE COUNTY
LOADING HS20
STR. NO. 083-3230

LETTERING FOR NAME PLATE

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

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



PILE DATA (2-ABUTS.)

Type & Size : HP10X42
Nominal Required Bearing : 80 kips
Allowable Resistance Available : 240 kips
Estimated Length : 26 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) = 10.0%
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

		Drainage Area = 5.680 Sq. Mi. Low Grade Elev. = 368.09 At Sta. 10+95							
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	1,200	272.1 272.0	366.53 366.66	0.00 0.00	366.53 366.66			
Base	100	1,698	340.3 324.0	367.90 368.02	0.00 0.06	367.90 368.08			
Overtopping	±101	1,700		324.0 368.03					
Max. Calc.	500								

Note: Proposed bridge located 128 feet upstream from the existing bridge.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yds.			20.8	20.8
P.P. Conc. Dk. Bm. 27" Dp.	Sq. Ft.	1,366			1,366
Steel Railing, Type S1	Foot	114			114
Reinforcement Bars	Pound			2,642	2,642
Furnishing Steel Piles HP10X42	Foot			182	182
Driving Piles	Foot			182	182
Test Pile Steel HP10X42	Each			1	1
Concrete Encasement	Cu. Yds.			2.1	2.1
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			24	24
Channel Excavation	Cu. Yds.			47	47
Stone Dumped Riprap, Class A4	Tons			151	151

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 14J
SPOIL BANK DITCH
SECTION 02-04118-00-BR
SALINE COUNTY