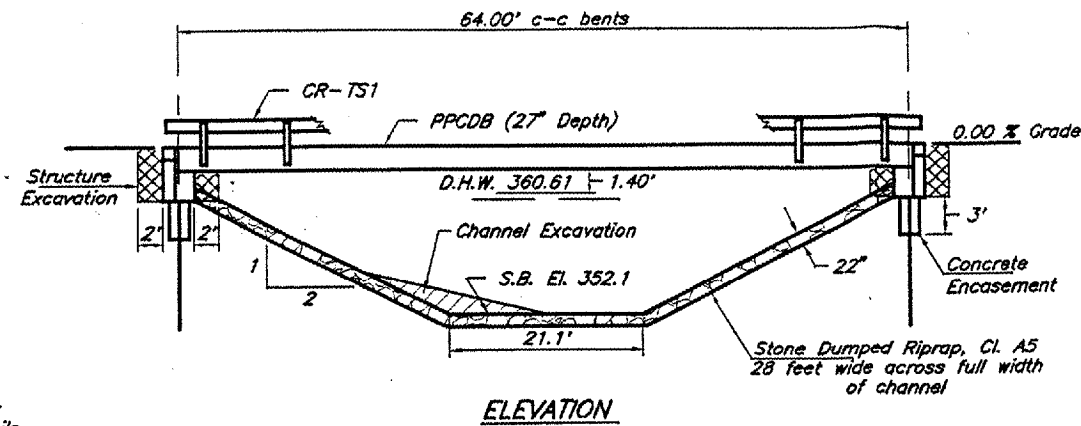
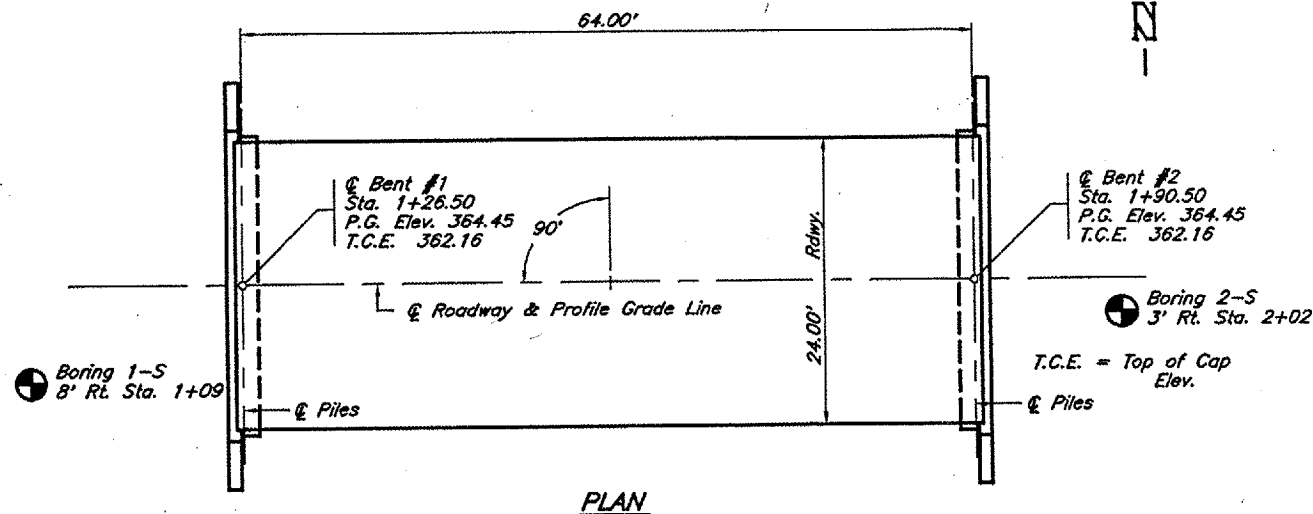


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 39	06-01159-00-BR	ALEXANDER	10	3
PROJECT NO. BR05-003(13)			CONTRACT NO. 99320	

B.M. - '□' chiseled on top of curb at SW corner of bridge 10.4' Rt. Station 1+21.5
Assumed Elev. 365.00



Existing Structure - 3 span precast concrete deck beams with concrete caps on open timber pile bent abutments and piers. 22.7' W X 73.0' L



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.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yds.			17.8	17.8
P.P. Conc. Dk. Bm. 27" Dp.	Sq. Ft.	1558			1558
Steel Railing, Type S1	Foot	130			130
Reinforcement Bars	Pound			2300	2300
Furnishing Metal Shell Piles 12"	Foot			646	646
Driving Piles	Foot			646	646
Test Pile Metal Shells	Each			1	1
Concrete Encasement	Cu. Yds.			2.1	2.1
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			18	18
Channel Excavation	Cu. Yds.			23	23
Stone Dumped Riprap, Class A5	Tons			266	266

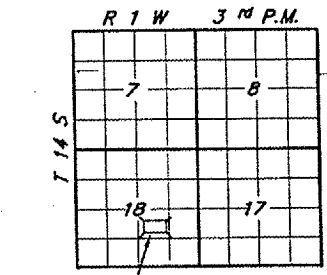
PILE DATA (2-ABUTS.)

Type & Size : Metal Shell 12" dia. x 0.25" walls
Nominal Required Bearing : 258 kips
Allowable Resistance Available : 86 kips
Estimated Length : 90 Feet Bent 1, 94 Feet Bent 2
Number Required : 8 (includes 1 Test Pile located in Bent #1)

HARTLINE CREEK
SEC. 06-01159-00-BR BUILT 20
COUNTY UNIT ROAD DISTRICT
ALEXANDER COUNTY
LOADING HS20
STR. NO. 002-3106

LETTERING FOR NAME PLATE

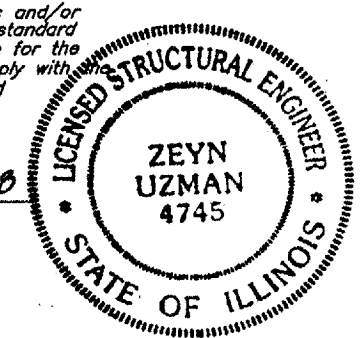
Locate Name Plate at Southwest Corner of Bridge (See Std. CN)



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 requirements of the current AASHTO Standard Specifications for Highway Bridges.

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



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) = 17.0%
Site Coefficient (S) = 1.5

WATERWAY INFORMATION

		Drainage Area = 3.45 Sq. Mi.		Low Grade Elev. = 364.5		At Sta. 0+70	
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Natural H.W.E. Exist.	Head-Ft. Prop.	Headwater El. Exist. Prop.
Design	15	1,973	335.7	324.4	360.61	0.54	0.00 361.15 360.61
Base	100	3,203	391.4	373.2	361.46	1.38	0.97 362.84 362.43
Overtopping							
Max. Calc.	500	4,228	404.6	361.97	361.97	2.45	2.14 364.42 364.11

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 39
HARTLINE CREEK
SECTION 06-01159-00-BR
ALEXANDER COUNTY
STATION 1+58.50