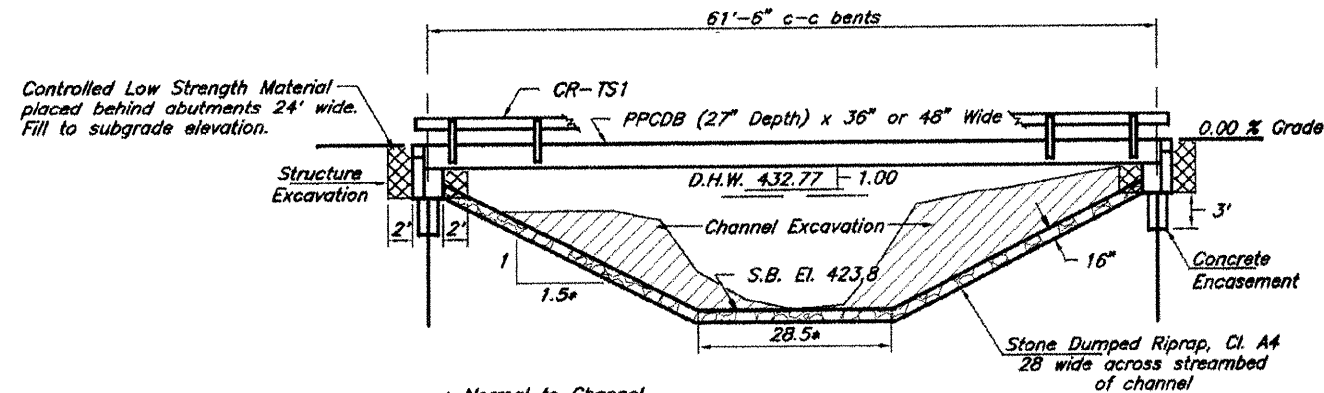
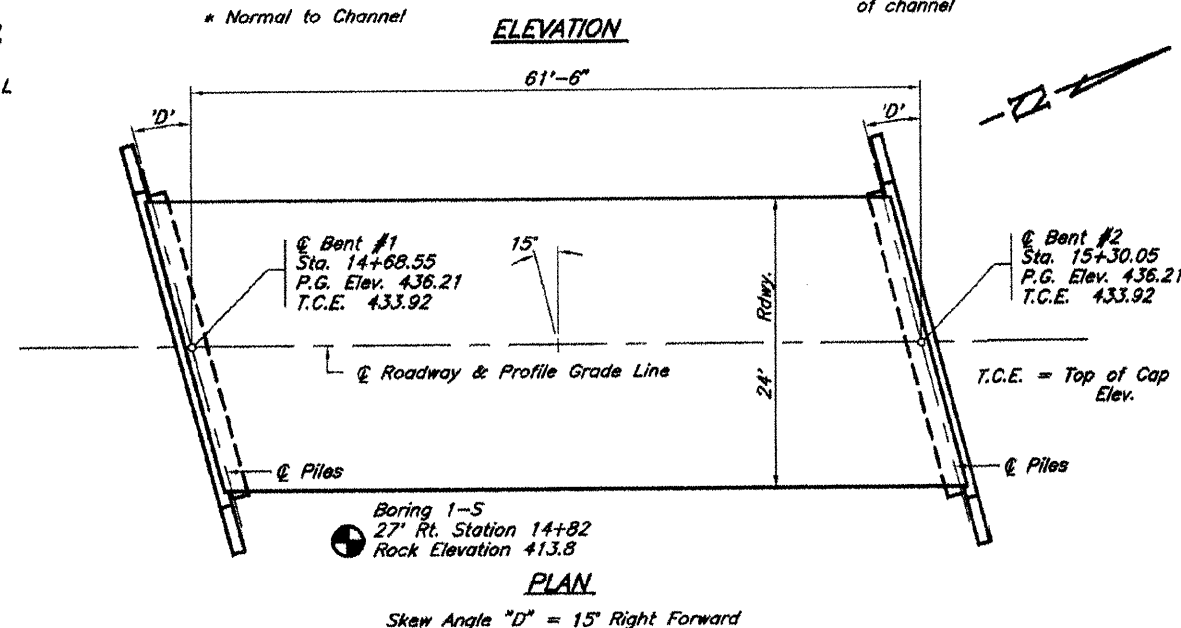


B.M. - Double nail in Power Pole
34' Left of Station 13+31
Elevation 437.00 (Assumed)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 320	06-10125-00-BR	FRANKLIN	14	3
PROJECT NO. BROS-055(52)			CONTRACT NO. 99308	



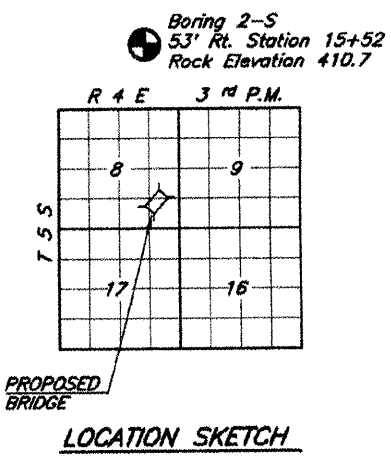
Existing Structure - Two span concrete deck with continuous steel stringers on one span and one closed timber pile bent abutments and one timber pile bent pier. 22.2' W x 60.2' L



Skew Angle "D" = 15° Right Forward

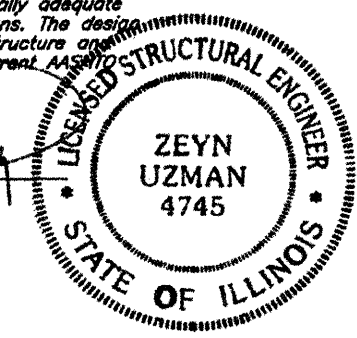
TAYLOR BRANCH
SEC. 06-10125-00-BR BUILT 20____
NORTHERN TOWNSHIP
FRANKLIN COUNTY
LOADING HL-93
STR. NO. 028-3403

LETTERING FOR NAME PLATE
Locate Name Plate at southeast
Corner of Bridge (See Std. CN)



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 type of structure and comply with the requirements of the current AASHTO LRFD Specifications.

Zeyn B. Uzman
S.E. 081-4745
Expires Nov. 30, 2010



PILE DATA (2-ABUTS.)

Type & Size : HP10X42
Nominal Required Bearing : 335 kips
Factored Resistance Available : 167 kips
Estimated Length : 26 Feet
Number Required : 8 (Includes 1 Test Pile located in Bent #2)

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications and all applicable interims.

LOADING HL-93

Allow 50#/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 = 4.649 Sq. Mi.		Low Grade Elev. = 432.11		At Sta. 18+66					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head-Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	15	1730	240.5	375.1	432.77	0.09	0.03	432.86	432.80
Base	100	2890	240.5	422.3	433.60	0.00	0.99	433.60	434.59
Overtopping	±349	3746		432.0	434.09		2.12		436.21
Max. Calc.	500								

Over Road Flow (Sq Ft): Exist. 318.1 2547.5
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.
- 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.			18.8	18.8
Concrete Encasement	Cu. Yds.			2.1	2.1
P.P. Conc. Dk. Bm. 27" Dp.	Sq. Ft.	1,498			1,498
Steel Railing, Type S1	Foot	125			125
Reinforcement Bars	Pound			2,438	2,438
Furnishing Steel Piles HP10X42	Foot			182	182
Driving Piles	Foot			182	182
Test Pile Steel HP10X42	Each			1	1
Name Plates	Each			1	1
Structure Excavation	Cu. Yds.			24	24
Channel Excavation	Cu. Yds.			429	429
Stone Dumped Riprap, Class A4	Tons			190	190
Controlled Low Strength Material	Cu. Yds.			16	16

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 320
TAYLOR BRANCH
SECTION 06-10125-00-BR
FRANKLIN COUNTY
STATION 14+99.3