B.M.-

Existing Structure-

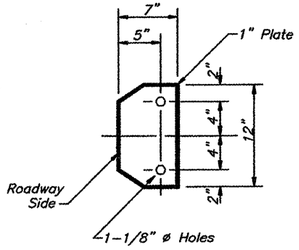
Salvage- No Salvage

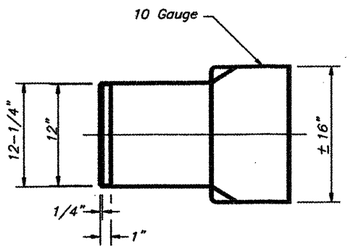
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 47	03-11117-00-BR	SALINE	18	3
RECTOR TOWNSHIP		FOWLER ROAD		

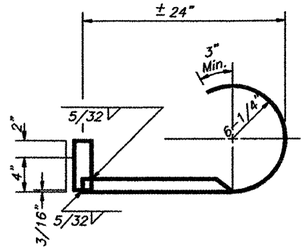
CONTRACT NO. 99389

CURLED END SECTION DETAILS

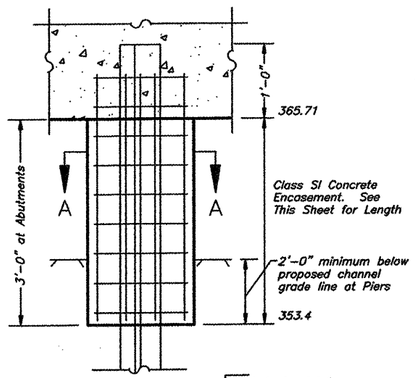
Note: Curled End Sections Shall Be Incidental To The Contract Price.

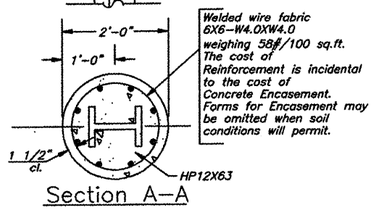






DETAIL OF HP PILE ENCASEMENT





Section A-A

QUANTITIES/LIN. FT. OF ENCASEMENT

(STEEL PILES)

PILE SIZE	ITEM	QUANTITY
HP 10	CONCRETE ENCASEMENT	0.086 C.Y.

(METAL SHELL PILES)

PILE SIZE	ITEM	QUANTITY
12" DIA.	CONCRETE ENCASEMENT	0.087 C.Y.

DESIGN SPECIFICATIONS

2007 LRFD Specification - 4th ed.

LOADING HL-93

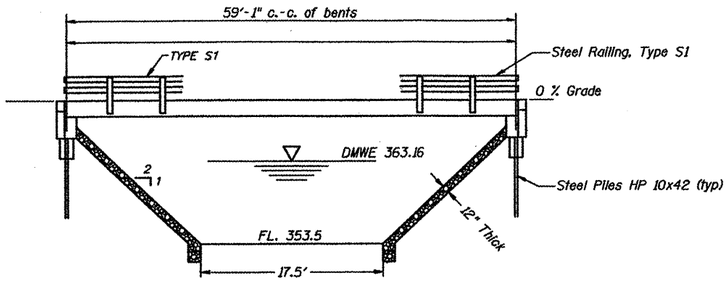
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

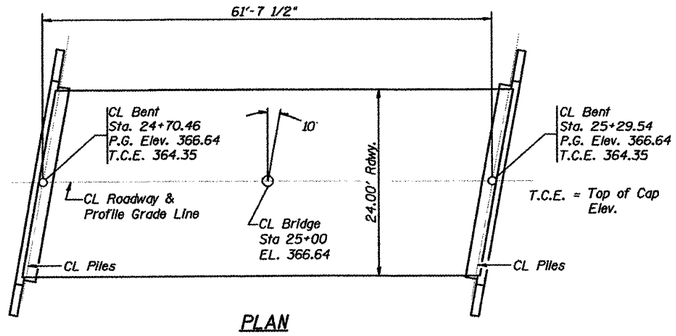
Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.159
Site Coefficient (S) = 1.2

PILE DATA (2-ABUTS.)

Type	STEEL HP 10X42
Capacity	45 Tons
Estimated Length	35 Feet
Number Required	8
Nominal Required Bearing	335 KIPS
Allowable Resistance Available	111 KIPS



ELEVATION



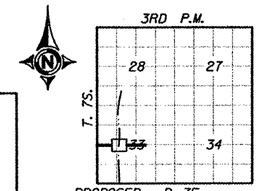
PLAN

GENERAL NOTES

1. The Contractor shall drive 0 test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
4. The Steel H-piles shall be according to AASHTO M270 Grade 50.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yd.			18.2	18.2
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1440			1440
Steel Bridge Rail, Type S-1	Foot	120			120
Reinforcement Bars	Pound			~~1980~~	~~1980~~ 2300
Furnishing Steel piles HP 10X42	Foot			280	280
Driving Piles	Foot			280	280
Name Plates	Each				1
Concrete Encasement	Cu. Yd.			2.8	2.8



LOCATION SKETCH

STATION 25 +00
INDIAN CREEK
SEC. 03-11117-00-BR BUILT 2009
RECTOR TOWNSHIP ROAD DIST.
SALINE COUNTY
LOADING HL93
STR. NO. 083-3228

LETTERING FOR NAME PLATE

Locate Name Plate at SOUTHWEST Corner of Bridge

LICENSED STRUCTURAL ENGINEER
ZEYN UZMAN 4745
STATE OF ILLINOIS

I certify that to the best of knowledge, information and belief, this bridge/box culvert 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.

Illinois Structural No. 4745
Expires 11/30/2010

WATERWAY INFORMATION

Drainage Area = 8.8 S.M. Low Grade Elev. = 361.2 @ Sta. 21+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	1391	290	413	363.16		0.25		363.41
Base	100	2102	196	413	363.57	0.59	0.41	364.16	363.98
Overtopping									
Max. Calc.	500	2653	229	656	363.88		0.46		364.34

GENERAL PLAN & ELEVATION
TR 47
OVER INDIAN CREEK
SECTION 03-11117-00-BR
SALINE COUNTY
STATION 25+00