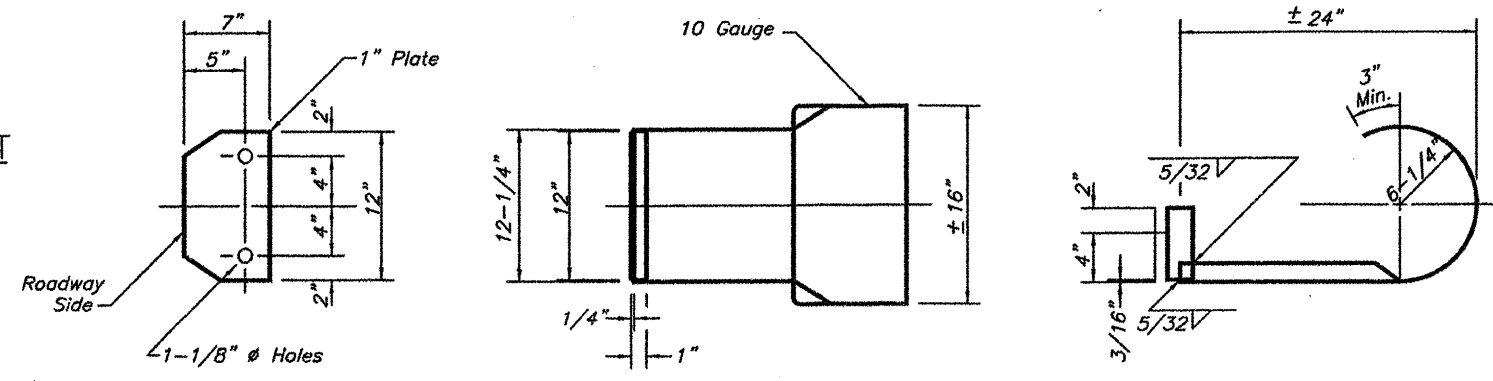


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 281	06-07114-00-BR	SALINE	17	3
INDEPENDENCE TOWNSHIP		MITCHELLSVILLE ROAD		

CONTRACT NO. 99437

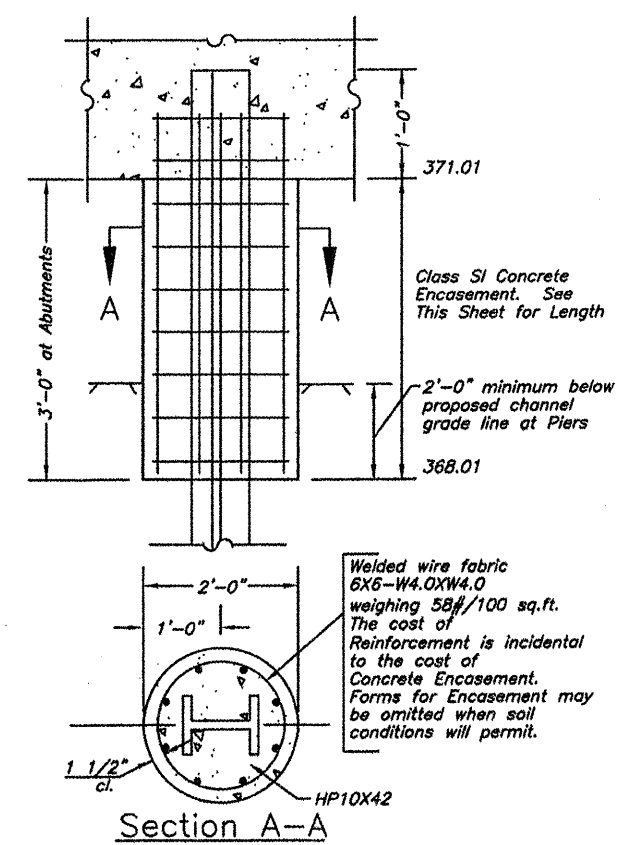
CURLED END SECTION DETAILS

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



Salvage- No Salvage

DETAIL OF HP PILE ENCASEMENT



Welded wire fabric 6X6-W4.0XW4.0 weighing 58#/100 sq.ft. The cost of Reinforcement is incidental to the cost of Concrete Encasement. Forms for Encasement may be omitted when soil conditions will permit.

QUANTITIES/LIN. FT. OF ENCASEMENT

PILE SIZE	ITEM	QUANTITY
HP 10	CONCRETE ENCASEMENT	0.116 C.Y.

(METAL SHELL PILES)

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

DESIGN SPECIFICATIONS

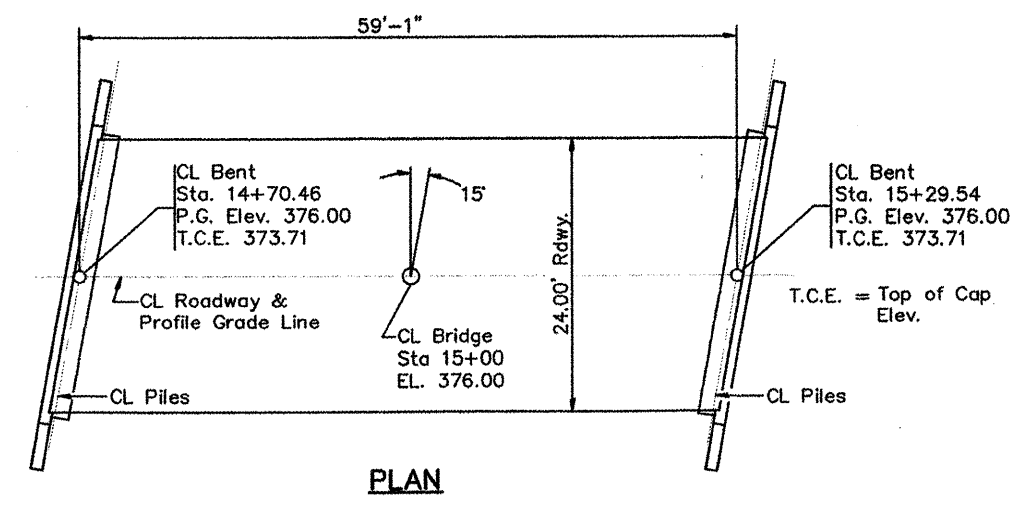
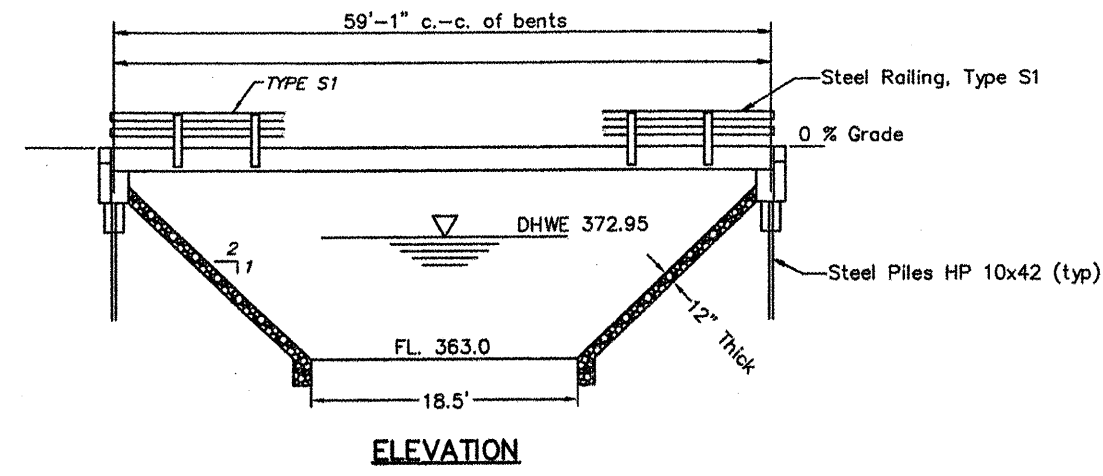
2007 LRFD Specification - 4th ed.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 4
 Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.48
 Design Spectral Acceleration at 0.2 sec (S₀₅) = 0.90
 Site Soil Class = E

PILE DATA (2-ABUTS.)

Type	STEEL HP 10X42
Estimated Length	25' W ABUT 35' E ABUT
Number Required	4 PER ABUTMENT (8 TOTAL)
Nominal Required Bearing	335 KIPS
Allowable Resistance Available	111 KIPS



GENERAL NOTES

- The Contractor shall drive 0 test piles, 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 Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- The Steel H-piles shall be according to AASHTO M270 Grade 50.

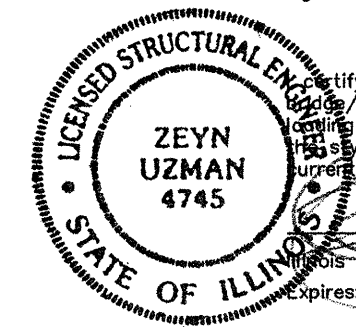
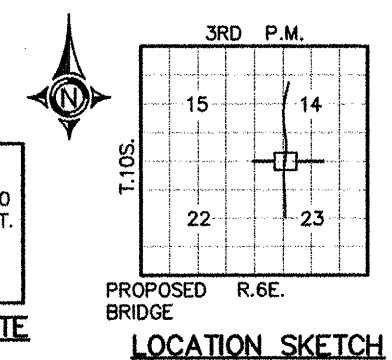
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
Concrete Structures	Cu. Yd.			19.4	19.4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1440			1440
Steel Bridge Rail, Type S-1	Foot	120			120
Reinforcement Bars	Pound			2440	2440
Furnishing Steel Piles HP 10X42	Foot			240	240
Driving Piles	Foot			240	240
Name Plates	Each				1
Concrete Encasement	Cu. Yd.			2.8	2.8

STATION 15 +00
 BLACKMAN CREEK
 SEC. 06-07114-00-BR BUILT 2010
 INDEPENDENCE TOWNSHIP ROAD DIST.
 SALINE COUNTY
 LOADING HL93
 STR. NO. 083-3238

LETTERING FOR NAME PLATE

Locate Name Plate at SOUTHWEST Corner of Bridge



I certify that to the best of knowledge, information and belief, this bridge/box culvert design is structurally adequate for the design shown on the plans. The design is an economical one for the state of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

WATERWAY INFORMATION

Drainage Area = 4.6 S.M.		Low Grade Elev. = 371.3 @ Sta. 23+00				
Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
Design	25	2820	222	358	372.95	363.70
Base	100	4100	222	375	372.84	363.92
Overtopping						
Max. Calc.	500	5810	222	412	372.83	373.83

GENERAL PLAN & ELEVATION

TR 281
 OVER BLACKMAN CREEK
 SECTION 06-07114-00-BR
 SALINE COUNTY
 STATION 15+00