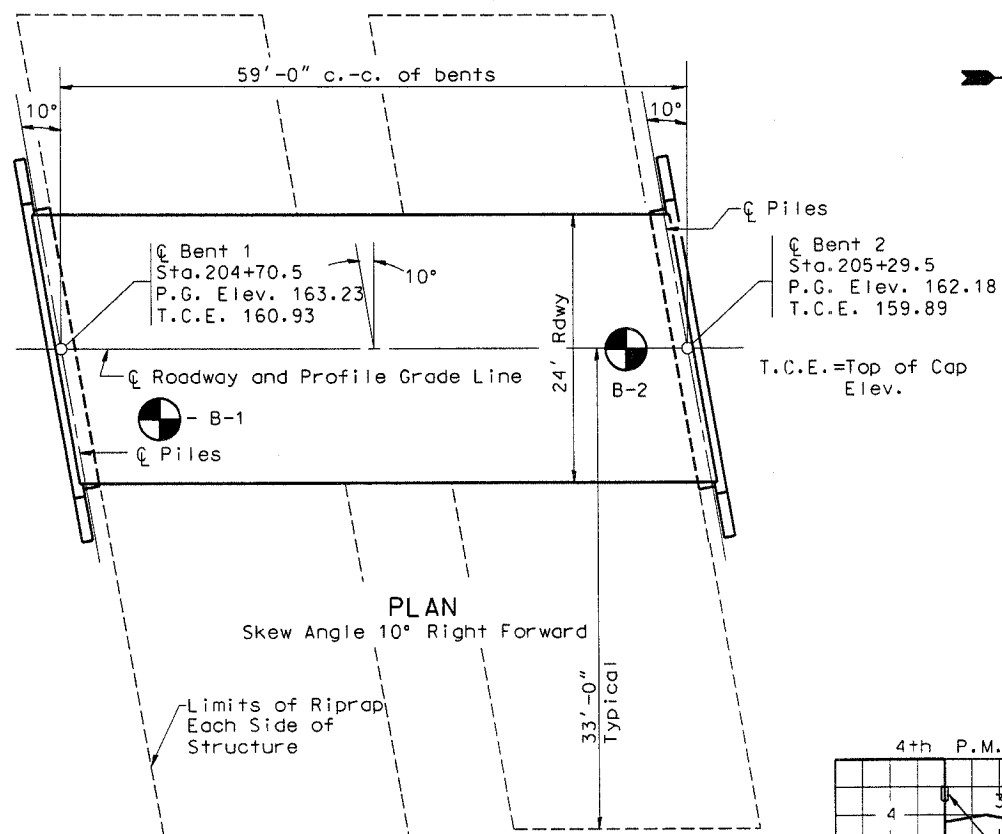
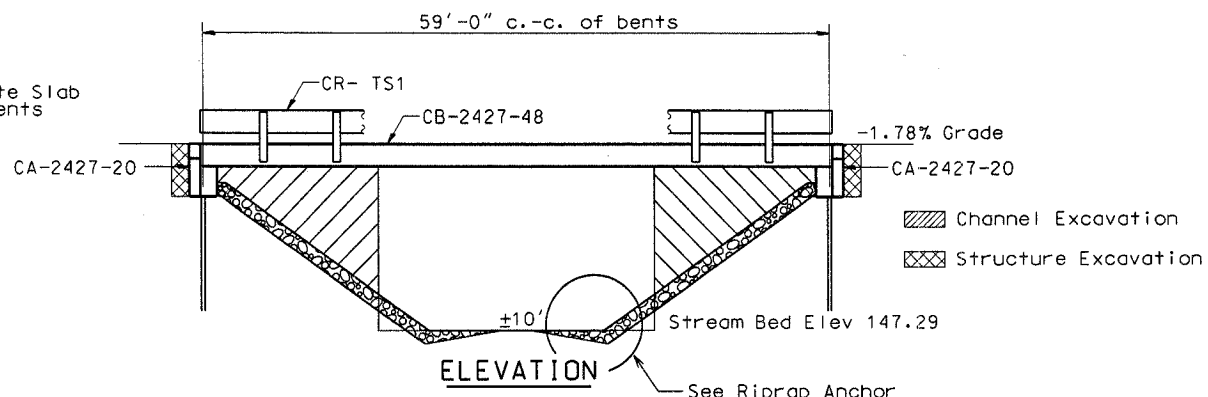


TR RTE	ROAD DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
TR 116	OSCO	HENRY	11	5
SECTION: 04-18125-00-BR				

- B.M. #1 - 16P Nail In Power Pole
Sta. 205+75.22.5' R
Elev. 159.26
- B.M. #2 - 16P Nail In Power Pole
Sta. 203+81.26' R
Elev. 165.08

Existing Structure- A Single Span Concrete Slab Structure (26') on Closed Concrete Abutments

All salvageable materials shall become the property of the the Henry County Highway Department



GENERAL NOTES

- The Contractor shall drive 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 Calcium Nitrite Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- The Abutments shall not be backfilled until the deck beams are in place and the dowel pins have been grouted and cured
- Reinforcement bars shall conform to AASHTO M-31, M-42 or M-53, Grade 60

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	
			Abuts.	Total
Removal of Existing Structures	Each			1
Channel Excavation	Cu. Yd.		183.0	183.0
Structure Excavation	Cu. Yd.		31.0	31.0
Stone Dumped Riprap, Class A4	Sq. Yd.		498	498
Concrete Structures	Cu. Yd.		18.2	18.2
Precast Prest. Concrete Deck Beams (27" Depth)	Sq. Ft.	1438		1438
Steel Railing, Type S-1	Foot	120		120
Reinforcement Bars	Pound		1980	1980
Furnishing Steel Piles HP 10x42	Foot		168	168
Driving Steel Piles	Foot		168	168
Test Piles Steel HP 10x42	Each		1	1
Metal Shoes	Each		7	7
Name Plates	Each	1		1
Concrete Encasement	Cu. Yd.		2.1	2.1

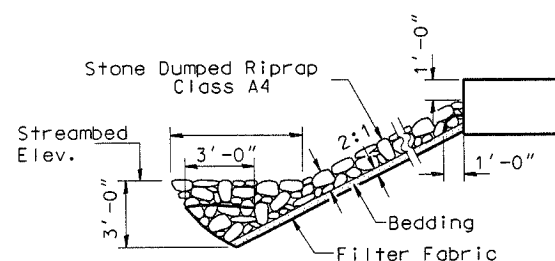
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for this style of structure and complies with the requirements of the AASHTO Standard Specifications for Highway Bridges.



Keith E. Brandau 4/6/05
Keith E. Brandau Date
Illinois Structure No. 4905
License Expires 11/30/2006

PILE DATA (2-ABUTS.)

Type Steel HP 10x42 Piles
Capacity Refusal
Estimated Length 24 Feet
Number Required 8 (Includes 1 Test Pile located in Bent #1)



STONE DUMPED RIPRAP ANCHOR DETAIL

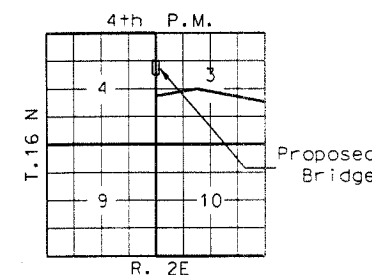
STATION 205+00
MINERAL CREEK
SEC. 04-18125-00-BR BUILT 2005
OSCO ROAD DIST.
HENRY COUNTY
LOADING HS20
STR. NO. 037-3357

LETTERING FOR NAME PLATE

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

DESIGN SPECIFICATIONS

2002 AASHTO, with applicable Interm Specifications, HS20-44 Loading, Load Factor Design



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 6.7 Sq. Mi. Low Grade Elev. = 161.88 @ Sta. 205+00

Flood	Freq. Yr.	Q C.F.S.	Opening	Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
Design	15	1407	192	319	158.39	5.1	158.90
Base	100	2259	192	410	159.71	3.3	160.04
Overtopping							
Max. Calc.	500	2951					

GENERAL PLAN & ELEVATION

TR 116
OVER MINERAL CREEK
SECTION 04-18125-00-BR
HENRY COUNTY
STATION 205+00