

- B.M. 1 60p Nail in Power Pole
Sta. 106+96, 13' Lt.
Elev. 201.50
- B.M. 2 60p Nail in Power Pole
Sta. 109+79, 53' Rt.
Elev. = 202.16

Existing Structure is a single span 80' through truss bridge on closed concrete abutments.

Any salvageable material shall become the property of the Henry County Highway Department

PILE DATA - (2 ABUTS)

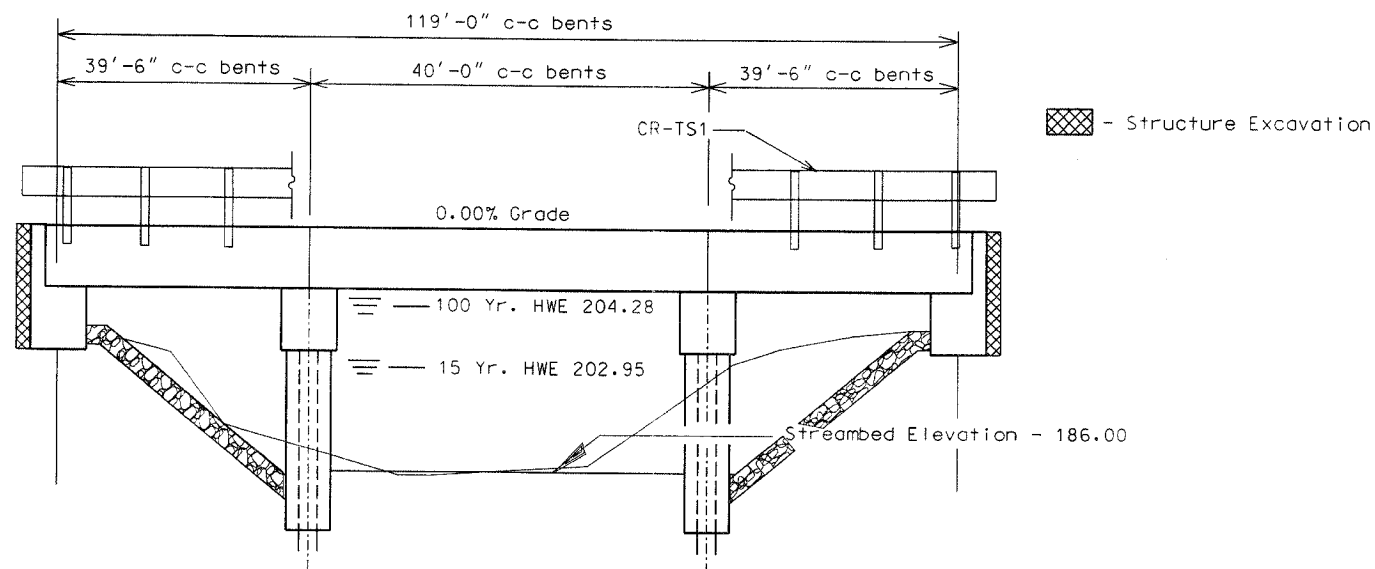
Type Steel H Pile
Capacity 31 Ton
Est. Length 46 Feet
Number Req. 8 (Includes 1 Test Pile Located in Bent # 1)

PILE DATA - (WEST PIER)

Type Steel H Pile
Capacity 34 Ton
Est. Length 46 Feet
Number Req. 7

PILE DATA - (EAST PIER)

Type Steel H Pile
Capacity 34 Ton
Est. Length 54 Feet
Number Req. 7 (Includes 1 Test Pile)



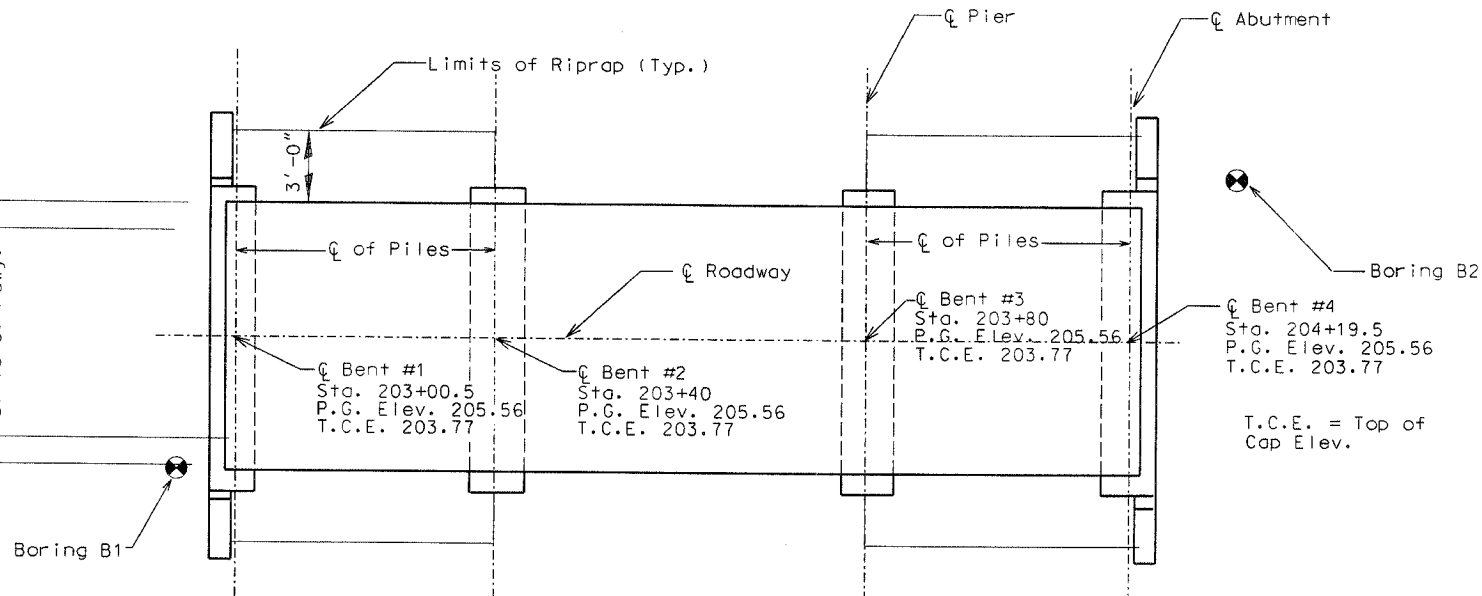
| | | | | |
|---------------|----------------------------------|----------|----------------------|-----------|
| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| TR 205 | 05-09126-00-BR 05-17134-00-BR | HENRY | 11 | 4 |
| F.H.W.A. REG. | | ILLINOIS | PROJECT BROS-0731531 | |

GENERAL NOTES

- The Contractor shall drive 2 test pile @ Bent #1 and Bent #3, 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 dowel pins have been grouted and cured.
- Reinforcement bars shall conform to AASHTO M-31, M-322, Grade 60.
- Underwater Structure Excavation protection shall be applied to bent #2 and bent #3.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--------------------------------|--------|-------|------|-------|
| Removal of Existing Structure | Each | | | 1 |
| Stone Dumped Riprap, Class C4 | Sq. Yd | | 334 | 334 |
| Channel Excavation | Cu. Yd | | 548 | 548 |
| P.P. Conc. Deck Beam 21" | Sq. Ft | 2874 | | 2874 |
| Furnishing Steel Piles HP10x42 | Foot | | 968 | 968 |
| Driving Steel Piles | Foot | | 968 | 968 |
| Test Piles Steel HP 10x42 | Each | | 2 | 2 |
| Concrete Structures | Cu. Yd | | 97.8 | 97.8 |
| Reinforcement Bars | Pound | | 6800 | 6800 |
| Structure Excavation | Cu. Yd | | 123 | 123 |
| Name Plate | Each | | 1 | 1 |
| Steel Railing, Type S-1 | Foot | 240 | | 240 |
| Metal Shoes | Each | | 20 | 20 |
| Concrete Encasements | Cu. Yd | | 2.1 | 2.1 |



STATION 203+60 Br. Dot Creek
BUILT 2006
SEC. 05-09126-00-BR/05-17134-00-BR
CORNWALL/MUNSON ROAD DISTRICT
HENRY COUNTY
LOADING HS20-44
STR. NO. 037-3359

NAME PLATE
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 this style of structure and complies with the requirements of the current AASHTO Standard Specifications for highway bridges.



Keith E. Brandau Date 6/2/06
Illinois Structural No. 4905
License Expires 11/30/2006

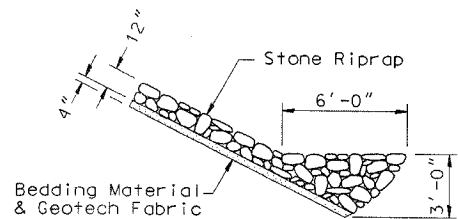
WATERWAY INFORMATION

Drainage Area = 49 Sq. Miles Low Grade Elev. 200.29 @ Sta. 200+34

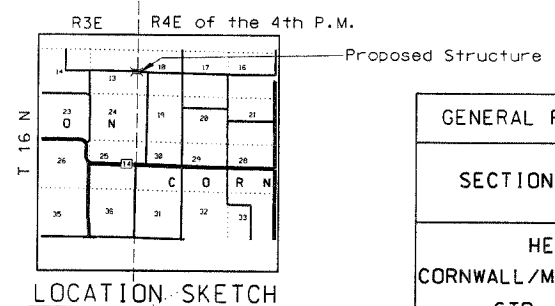
| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | | Natural H.W.E. | | Head - Ft. | | Headwater El. | |
|--------|-----------|----------|-----------------|-------|----------------|-------|------------|-------|---------------|--------|
| | | | Exist. | Prop. | Exist. | Prop. | Exist. | Prop. | Exist. | Prop. |
| Design | 15 | 4762 | 620 | 1135 | 201.47 | | 0.86 | 0.37 | 202.33 | 201.84 |
| Base | 100 | 7495 | 620 | 1202 | 203.73 | | 0.10 | 0.09 | 203.83 | 203.82 |

DESIGN SPECIFICATIONS

2002 AASHTO, w/ Applicable Interims
HS20-44 Loading Load Factor Design



STONE RIPRAP ANCHOR DETAIL



GENERAL PLAN & ELEVATION

TR 205
SECTION 05-09126-00-BR
05-17134-00-BR

HENRY COUNTY
CORNWALL/MUNSON ROAD DISTRICT
STR. NO. 037-3359