TBM 12/20/05"C" - RR spike in 30"\(\text{Poplar tree} \) 37.0' Rt., Sta. 10+09.5 - Elev. 526.83

Curled End Section, Typ. All 4 Corners

Bk. W. Abut.— Sta. 9+83.00 Cr. El. 529.05

1'-4"

WATERWAY DATA

Low Grade Elev. 526.77 @ Sta. 12+25

7. Q Opening Sq. Ft. Natural Head - Ft. Headwater El. C.F.S. Exist. Prop. H.W.E. Exist. Prop. Exist. Prop. 800 103 181 525.61 0.92 0.11 526.53 525.72 1315 103 216 526.46 0.52 0.43 526.98 526.89

Shld

Limits of Porous -

Location of

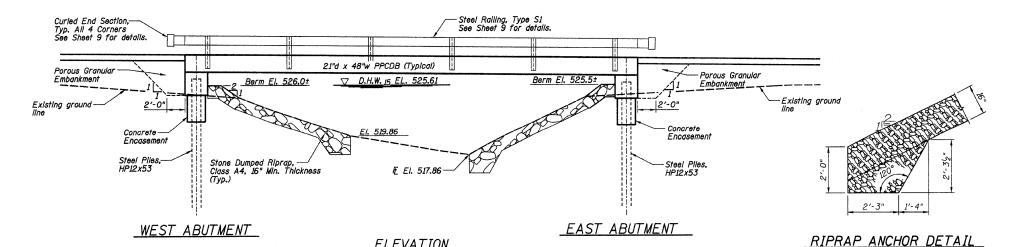
Granular Embankment

Existing Structure: Single span bridge with timber deck on steel stringers supported on closed cast-in-place concrete abutments. 25' Bk. to Bk. abutments, 13' out to out of deck. To be removed. See Special Provisions.

Existing Structure Number: 026-3201.

SECTION TR 437 05-10121-00-BR FAYETTE 10 FED. ROAD DIST. NO. 7 ILLINOIS FEDERAL AID PROJECT

CONTRACT NO. 95550



17'-6"±

© Brg. E. Abut.-Sta. 10+31.67

Steel Railing, Type S1 See Sheet 9 for details.

DESIGN SPECIFICATIONS

AASHTO - 2002 17th Edition

ELEVATION

Stone Dumped Riprap, Class A4, 16" Min. Thickness (Typ.)

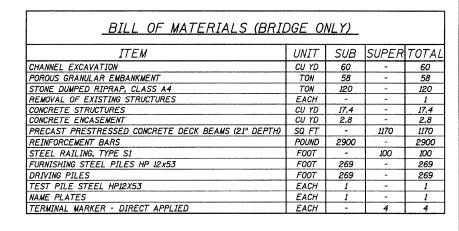
17'-3"±

Class A4, 16" Min. Thickness

50'-0"

PLAN

Existing Structure



GENERAL NOTES

See Section 502 of the Standard Specifications for Structural Excavation.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The Contractor shall drive one (1) Steel HP12x53 Test Pile in a permanent location at the East Abutment as directed by the Engineer before ordering the remainder of the piles.

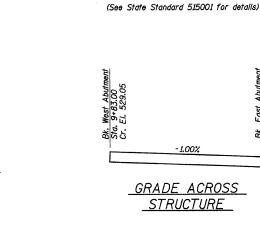
Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel at the ROW line. If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment.

See Specifications for Soil Borings.

Do not scale these drawings.

The Steel H-piles shall be according to AASHTO M270 Grade 50.

The abutment bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required, 'g" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.



Limits of Porous

Shld

Test Pile

- Boring 1 Sta. 10+33.8 8.9′ Rt.

Curled End Section, Tvp. All 4 Corners

TRIB. TO LITTLE HICKORY CREEK BUILT 200_ BY FAYETTE COUNTY

SEC. 05-10121-00-BR

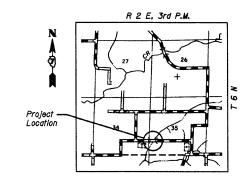
PROJECT NO. BROS-051(082)

STRUCTURE NO. 026-3433

LOADING HS-20

NAME PLATE

-1.00%



LOCATION SKETCH

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



CENTRALIA, ILLINOIS ENGINEER NO. 81-4853 EXPIRES NOV. 30, 2008

GENERAL PLAN AND ELEVATION PROPOSED BRIDGE OVER TRIBUTARY TO LITTLE HICKORY CREEK TR 437

SECTION 05-10121-00-BR FAYETTE COUNTY, ILLINOIS



Flood

Design

Max. Calc.

Base

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi = 60,000 psi

PRECAST PRESTRESSED UNITS

 $f'_{c} = 5.000 \text{ psi}$ $f'_{ci} = 4.000 \ psi$

LOADING HS 20-44 = 270,000 psi (1/2" Low-Lax strands) Allow 25#/sq. ft. for future wearing surface. $f'_{si} = 201,960 \text{ psi } (\frac{1}{2}) \text{ Low-Lax strands})$

1'-4"

RHUTASEL and ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

CENTRALIA, ILLINOIS

FREEBURG, ILLINOIS

Drainage Area = 1.97 Sq. Mi.

Boring 2 Sta. 9+59.5 14.3′ Rt.

Lany S. Hahm 07.09.00 GARY L. HAHN ILLINOIS LICENSED STRUCTURAL

Sheet of 10 Job No. 51205