

BENCHMARK:

Magnetic Nail in Existing Pavement
12+38.39 - 0.87' Left - Elevation 421.68

EXISTING STRUCTURE: #082-4038

THE STRUCTURE IS A CAST-IN-PLACE, MULTI-BEAM, SINGLE SPAN BRIDGE. THE TOTAL LENGTH OF THE BRIDGE IS 31 FEET-4 INCHES. THE BRIDGE ROADWAY WIDTH IS 19 FROM CONCRETE BARRIER TO BARRIER AND AN OVERALL WIDTH OF APPROXIMATELY 21 FEET. THE APPROACH ROADWAY IS GRAVEL PAVEMENT WITH A WIDTH OF ABOUT 11 FEET. THE SUPERSTRUCTURE CONSIST OF 5 BEAMS 20 INCHES DEEP AND 12 INCHES WIDE, SPACES AT 3 FEET-3 INCHES. REFER TO ATTACHED EXISTING CROSSSECTION.

No salvage.

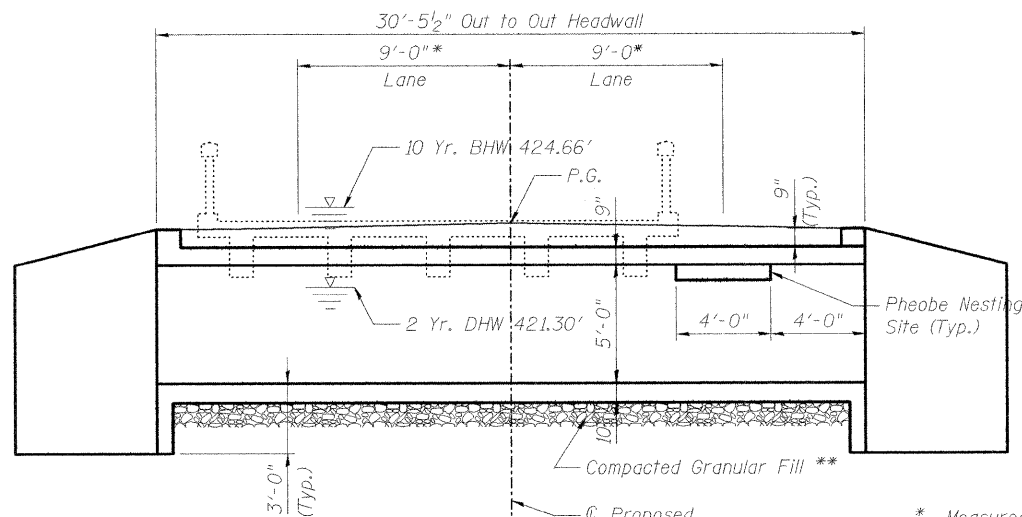
PROPOSED IMPROVEMENTS:

Existing structure to be removed and replaced
With a Double Box Culvert - 12'-0" x 5'-0"
Structure No. 082-4142

Note: Precast Alternate Not Allowed.

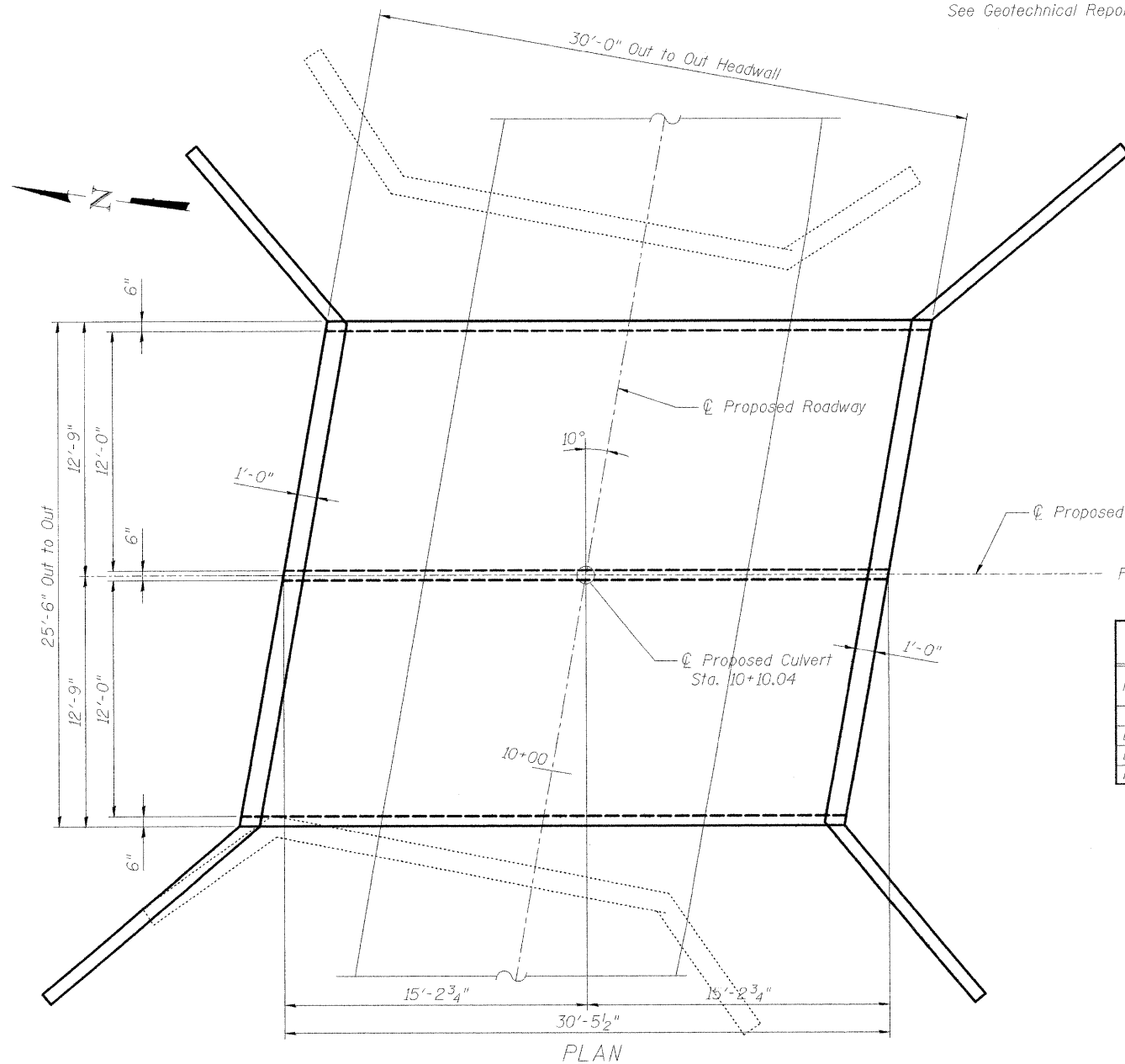
Note: It shall be the responsibility of the contractor to divert the stream flow during construction areas free of water, the method of diversion shall meet approval of the engineer. The cost of this work shall be considered incidental to the contract.

ST. CLAIR COUNTY

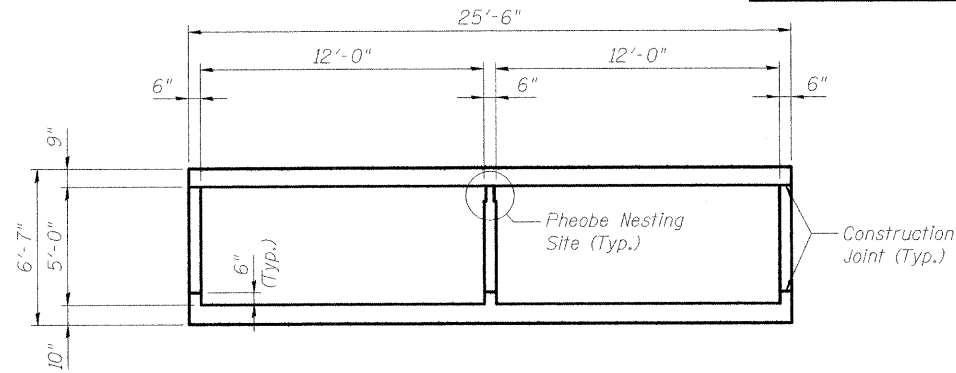


ELEVATION

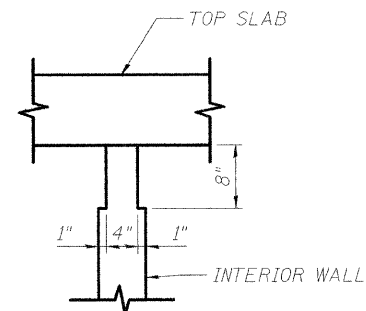
* Measured Perpendicular to Centerline of Roadway
** 1'-0" Compacted Granular Fill and Undercut Minimum 2'-0", See Geotechnical Report



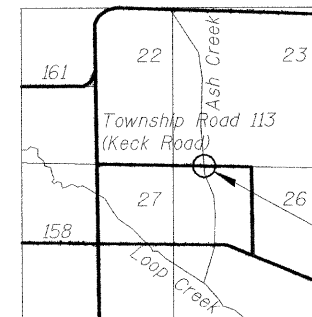
PLAN



SECTION THRU BARREL



PHOEBE NESTING SITE



LOCATION SKETCH

SHILOH VALLEY TOWNSHIP T.IN., R.7W.
NW. 1/4, NW 1/4, SECTION 26 & SW. 1/4, SW. 1/4, SECTION 23

WATERWAY INFORMATION

Drainage Area = 3.7 sq. miles		Exist. Low Grade Elev. 421.8 @ Sta. 8+60.92 Prop. Low Grade Elev. 422.0 @ Sta. 8+15.60							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	2	180	51	120	421.30	0.03	0.12	421.33	421.42
Base	10	1,340	72	120	424.66	0	0.02	424.66	424.68
Max. Calc.	100	3,150	72	120	426.40	0	0	426.40	426.40

ASH CREEK
BUILT 20 BY
SHILOH VALLEY
SAINT CLAIR COUNTY
SEC. 97-17114-00-BR
STATION 10+10.04
STRUCTURE NO. 082-4142
LOADING HS20-44

NAME PLATE
See Std. 515001

HIGHWAY CLASSIFICATION

Functional Class: Local Road
ADT: 85
Design Speed: 30 mph

DESIGN SPECIFICATIONS

2002 AASHTO

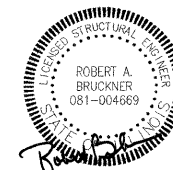
LOADING HS20-44

DESIGN STRESSES

f'c = 3,500 psi (Concrete -- Field Units)
fy = 60,000 psi (Reinf. Bars -- Field Units)

Reinforcement bars shall conform to requirements of ASTM A 706 Gr 60.

All exposed edges of concrete shall be beveled 3/4", unless otherwise noted.



5-11-2009
License Expires 11-30-2010

GENERAL PLAN AND ELEVATION
TOWNSHIP ROAD 113 KECK ROAD OVER ASH CREEK
ST. CLAIR COUNTY
STATION 10+10.04
STRUCTURE NUMBER 082-4142

DESIGNED	RAB
CHECKED	AMC
DRAWN	JAS
CHECKED	RAB