F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
547	02-11113-00-BR	WILL	17	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 83777

BENCHMARK

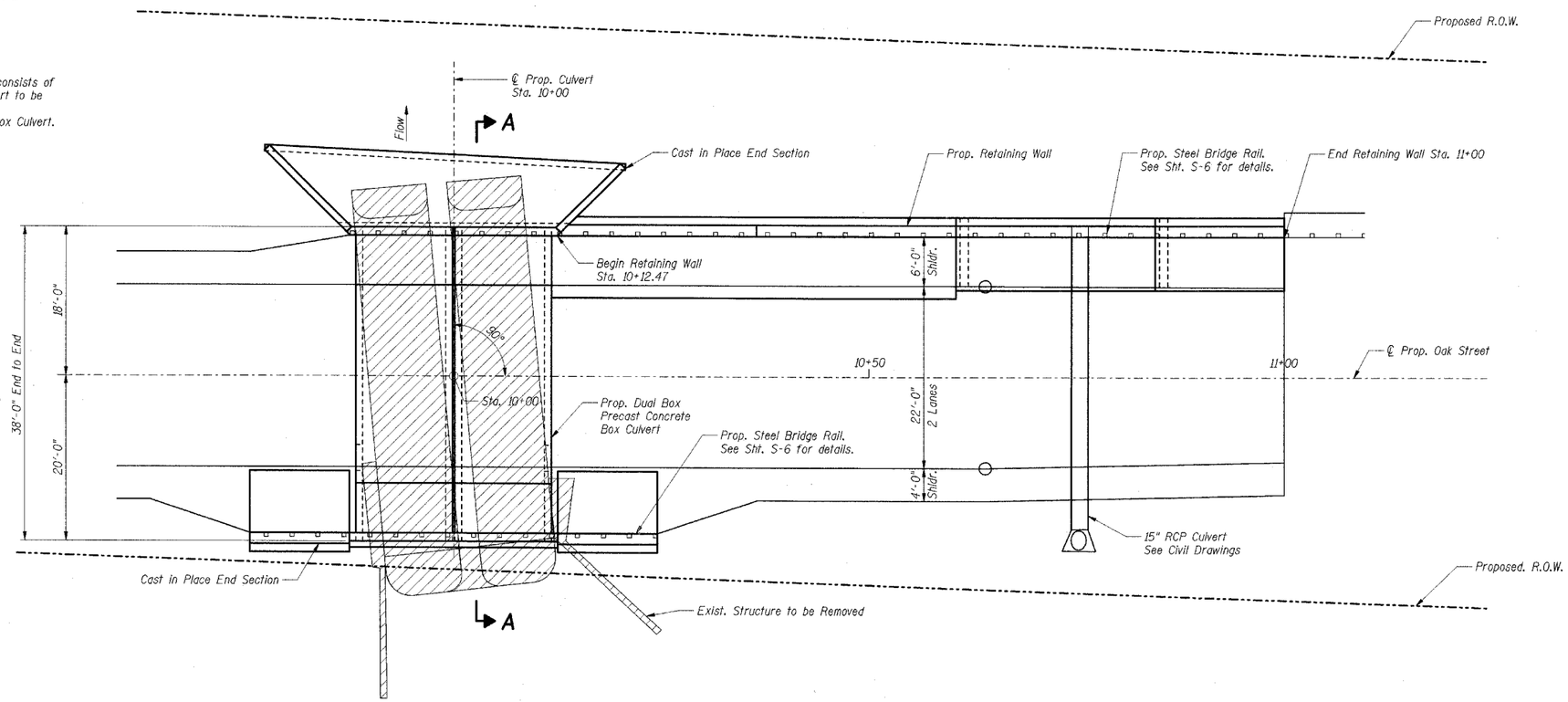
Metal disk on the top of concrete monument - southeast corner of the intersection of Second St. & State St. (State Highway 49). Elevation 607.75

EXISTING STRUCTURE

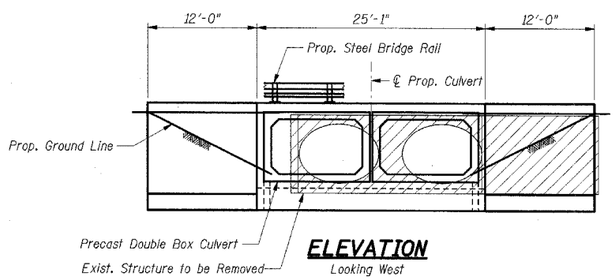
Structure Number 099-4150 consists of a deteriorated CMP twin culvert to be removed and replaced with a Dual Box Precast Concrete Box Culvert.

SALVAGE

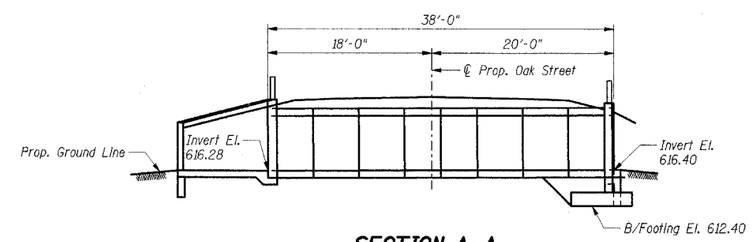
None



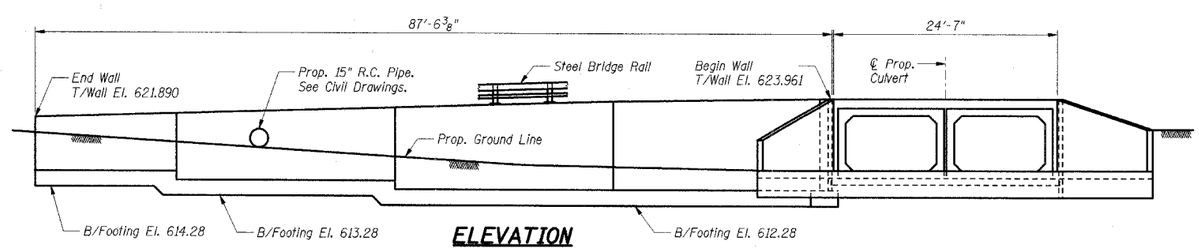
PLAN



ELEVATION
Looking West



SECTION A-A



ELEVATION
Looking East

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges.

DESIGN LOADING

Roadway Live Load: HS20-44
Earth Pressure: 40 pcf Equiv. Fluid Weight
Earth Mass: 120 pcf
Live Load Surcharge: 2 ft. Addt'l Fill

DESIGN STRESSES

Field Units

New Construction

Cast-in-Place Concrete, f'c = 3,500 psi
Precast Concrete, f'c = 5,000 psi
Reinforcement, fy = 60,000 psi
Allowable Soil Bearing Capacity = 4,000 psf

LEGEND

Proposed Steel Bridge Rail

Proposed R.O.W. Line

INDEX OF SHEETS

S-1 GENERAL PLAN & ELEVATION
S-2 GENERAL NOTES, MISCELLANEOUS DETAILS & BILL OF MATERIAL
S-3 WINGWALL DETAILS
S-4 END SECTION & HEADWALL/COLLAR DETAILS
S-5 RETAINING WALL DETAILS
S-6 STEEL BRIDGE RAIL DETAILS

VERNON J. STRUCTURAL ENGINEER ... CHICAGO, ILLINOIS

8/31/04
EXPIRES 11/30/04

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 the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges"

SHT. S-1

REVISIONS	
NAME	DATE

LOCKPORT TOWNSHIP
F.A.U. (547) OAK STREET OVER FIDDYMENT CREEK
WILL COUNTY

GENERAL PLAN & ELEVATION

SCALE:
DRAWN BY: FD
DATE: 7/22/04
CHECKED BY: JRH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
300 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0600

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8-31-2004 14:24:30 S:\DOCUMENT\02332502\STRUCT\DGN\GPE0006H.DGN KARNATMR