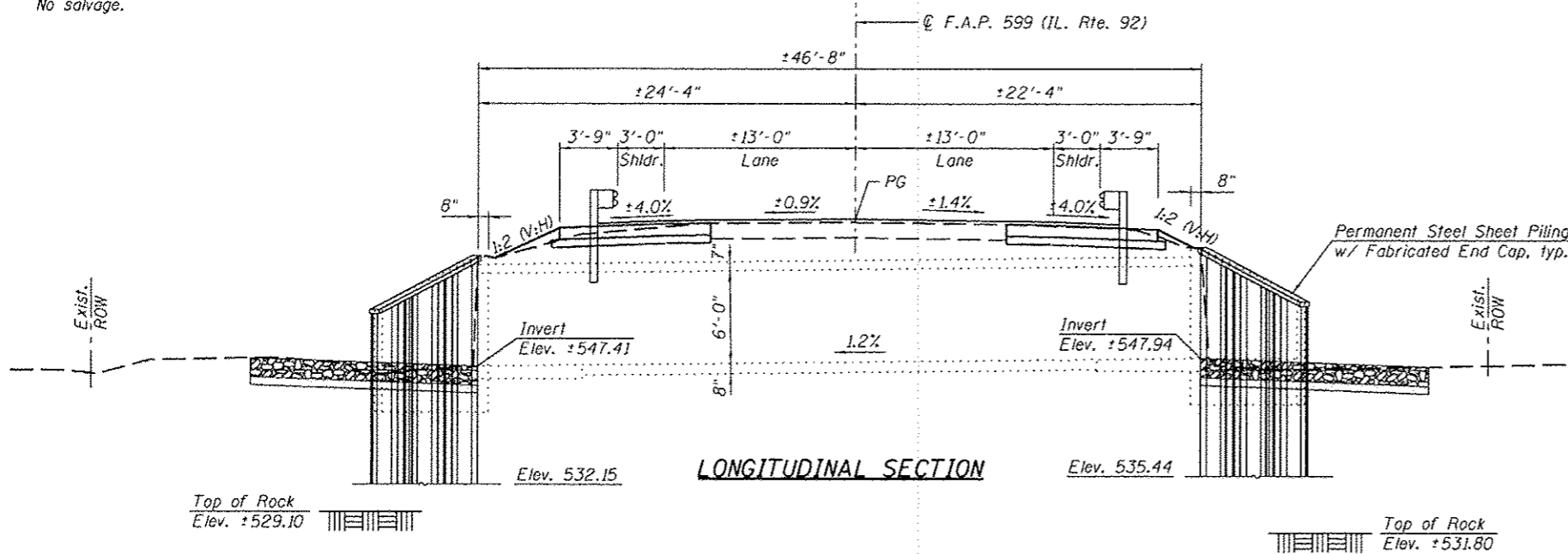


Existing Structure:  
 Double 9'x 6' box culvert built in 1947 under Section 103.  
 The existing box culvert wingwalls on the north and south ends  
 will be removed and steel sheet pile wingwalls constructed. One  
 lane of traffic to be maintained at all times utilizing staged  
 construction.

No salvage.

**GENERAL NOTES**

1. The permanent steel sheet piling for the wingwalls shall conform to the special provision Permanent Steel Sheet Piling.
2. The minimum effective section modulus for the Permanent Steel Sheet Piling shall be 4.0 in<sup>3</sup>/ft.
3. The fabricated steel cap shall be AASHTO M270 Grade 50W. The cap, bolts, nuts and washers shall not be paid for separately, but shall be included in the cost for Permanent Steel Sheet Piling.
4. Fasteners shall be AASHTO M164 Type 3. Bolts 1/2" φ, nuts 5/8" φ.
5. New coarse aggregate shall be placed behind the existing headwall for the full length of the headwall and shall be 12" wide by 6" high. The coarse aggregate shall be gradation CA 7 or CA 11 material. This item shall not be paid for separately, but shall be included in the cost of Concrete Wingwall Removal.
6. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Wingwall Removal	Each	4
Stone Riprap, Class A4	Sq. Yd.	96
Filter Fabric	Sq. Yd.	96
Permanent Steel Sheet Piling	Sq. Ft.	743
Name Plate	Each	1

**INDEX OF SHEETS**

1. General Plan & Elevation
2. Box Culvert End Section Details
3. Soil Boring Logs

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications

**DESIGN STRESSES**

**FIELD UNITS**

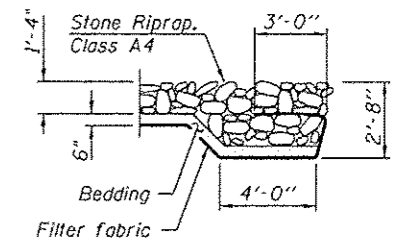
fy = 38,500 psi (Permanent Sheet Piling)  
 fy = 50,000 psi (AASHTO M270, Grade 50W)

STATION 917+91.81  
 BUILT BY  
 STATE OF ILLINOIS  
 LOADING HL-93  
 STRUCTURE NO. 081-1051

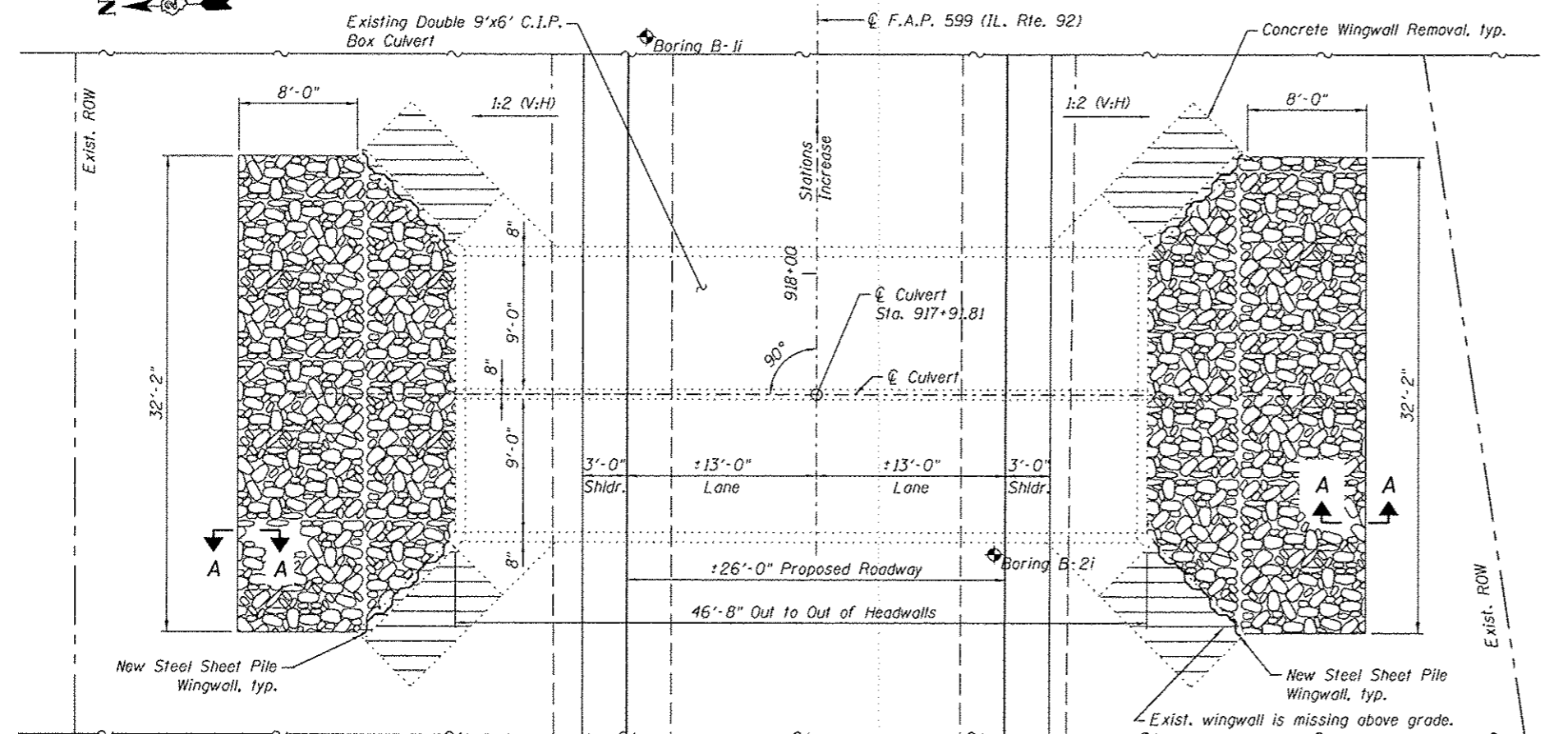
**NAME PLATE**  
 See Std. 515001



Signature: *Andrew E. Underwager*  
 Date: 3-13-2013  
 License Expires: 11-30-2014



**SECTION A-A**



**PLAN**

**GENERAL PLAN & ELEVATION**  
**ILLINOIS ROUTE 92**  
**F.A.P. RTE 599 - SEC. (83MFT & 103MFT)W**  
**ROCK ISLAND COUNTY**  
**STATION 917+91.81**  
**STRUCTURE NO. 081-1051**



USER NAME = hfrax1	DESIGNED - AEU	REVISED -
PLOT SCALE =	CHECKED - DLS	REVISED -
PLOT DATE = 3/20/2013	DRAWN - AWH	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION - 917+91.81**  
**STRUCTURE NO. 081-1051**

SHEET NO. 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	(83MFT & 103MFT)W	ROCK ISLAND	340	177
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		