

**GENERAL NOTES**

- Plan dimensions and details have been taken from existing plans or survey/field checks. As such, these dimensions and details 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.
- The sheet piling for the wingwalls shall conform to the special provision Permanent Steel Sheet Piling. The minimum effective section modulus for the Permanent Steel Sheet Piling shall be 3.3 in<sup>3</sup>/ft.
- 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.
- Fasteners shall be AASHTO M164 Type 3.
- 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.
- All exposed concrete edges shall be chamfered 3/4" unless noted otherwise. All construction joints shall be bonded.
- This work shall conform to the requirements of the applicable portions of Sections 501, 503, 505, 508 and 584 of the Standard Specifications.
- A precast option is not allowed at this location.
- Drainage holes shall conform to the requirements of Article 503.11 of the Standard Specifications.
- Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

**DESIGN SPECIFICATIONS**

2002 AASHTO Bridge Design Specifications

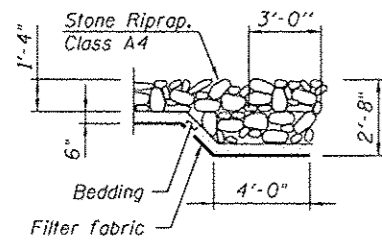
**DESIGN STRESSES**

**FIELD UNITS**

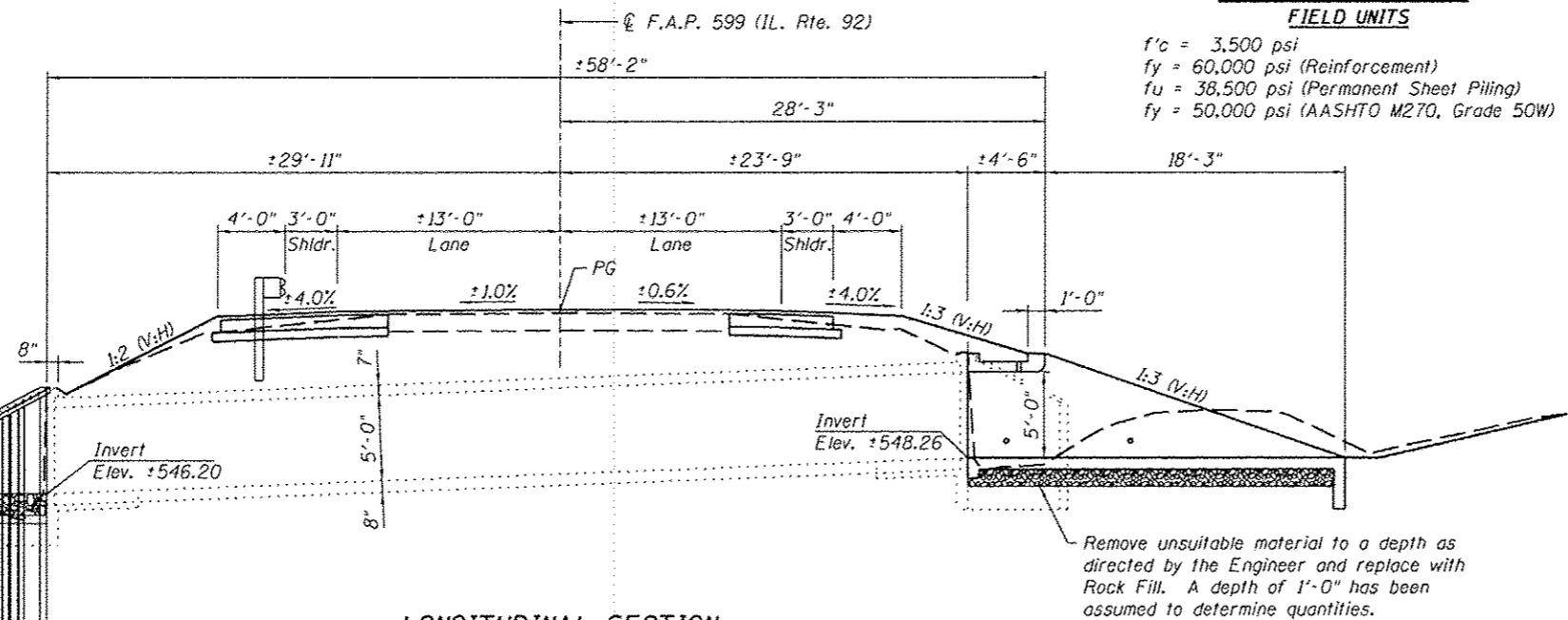
f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)  
 fu = 38,500 psi (Permanent Sheet Piling)  
 fy = 50,000 psi (AASHTO M270, Grade 50W)

Existing Structure: Existing culvert is a 6'x5' RC box culvert with vertical cantilever wingwalls built in 1947 under Section 83. The existing culvert is approximately 63'-8" out to out headwalls. The upstream end of the existing culvert will be extended. At the downstream end, the existing concrete wingwalls will be removed and replaced with sheet pile wingwalls. One lane of traffic to be maintained at all times utilizing staged construction.

No salvage.



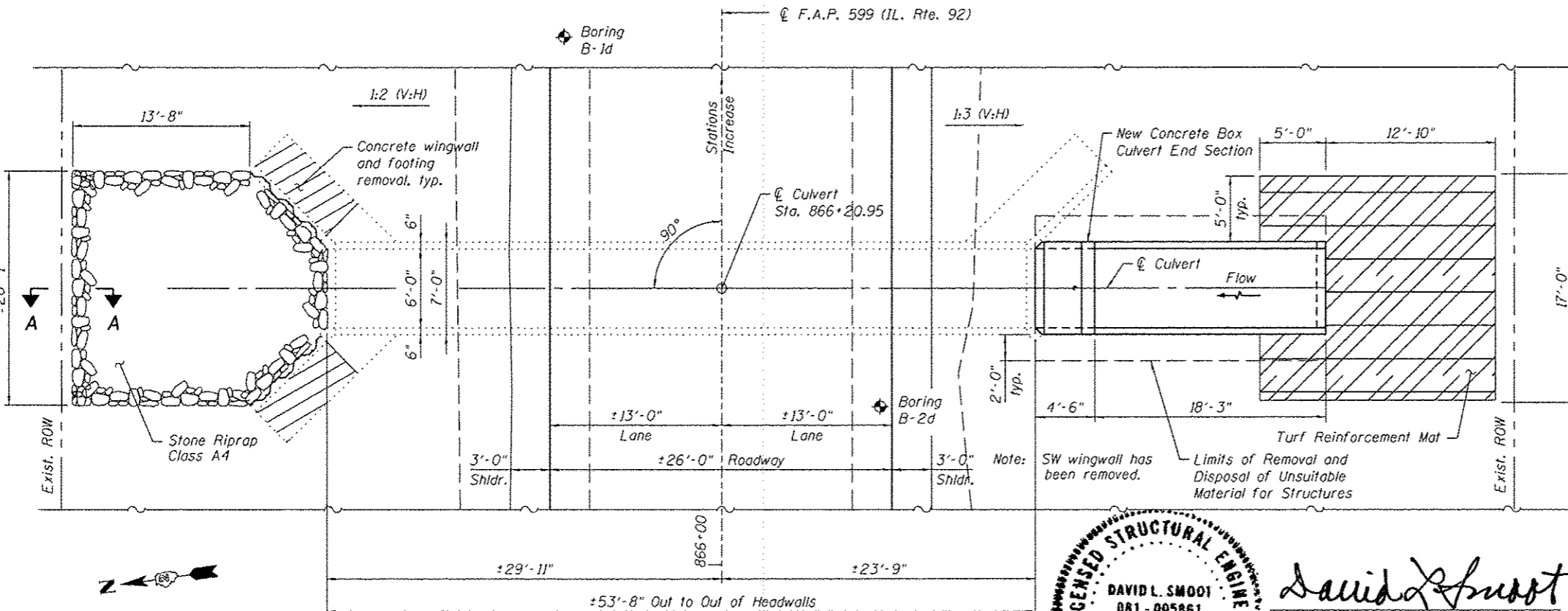
**SECTION A-A**



**LONGITUDINAL SECTION**

Remove unsuitable material to a depth as directed by the Engineer and replace with Rock Fill. A depth of 1'-0" has been assumed to determine quantities.

Top of Rock  
 ±Elev. 535.50



**PLAN**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Turf Reinforcement Mat	Sq. Yd.	30
Stone Riprap, Class A4	Sq. Yd.	41
Filter Fabric	Sq. Yd.	41
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	10
Box Culvert End Section, Culvert No. 04	Each	1
Concrete Wingwall Removal	Each	2
Permanent Steel Sheet Piling	Sq. Ft.	278
Traversable Pipe Grate	Foot	34.8
Rock Fill	Ton	17

**INDEX OF SHEETS**

- General Plan & Elevation
- Box Culvert End Section
- Box Culvert End Section Details
- Traversable Steel Pipe System
- Box Culvert End Section Details
- Soil Boring Logs

**GENERAL PLAN & ELEVATION**

**ILLINOIS ROUTE 92**  
**F.A.P. RTE 599 - SEC. (83MFT & 103MFT)W**  
**ROCK ISLAND COUNTY**  
**STATION 866+20.95**  
**STRUCTURE NO. 081-1054**



*David Smoot*  
 Signature  
 Date: March 13, 2013  
 License Expires 11/30/2014

FILE NAME: \\p01-jet11\28181282\_P1B\_157125\cadd\Structural\Drawings\13.0320.0866-28.95-S&H1-RB1-GPE.dwg  
 USER: jkelly  
 PLOT DATE: 3/21/2013