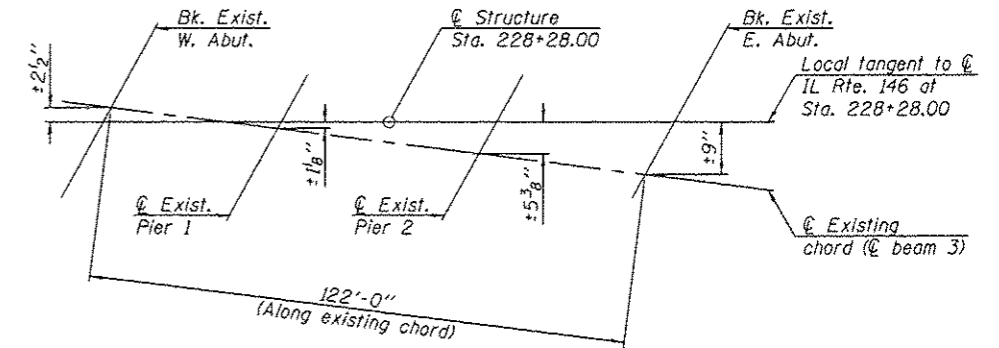


**TOTAL BILL OF MATERIAL**

| ITEM                                     | UNIT    | SUPER | SUB   | TOTAL |
|--|---------|-------|-------|-------|
| Porous Granular Embankment (Special)     | Cu. Yd. |       | 191.7 | 191.7 |
| Stone Riprap, Class A5                   | Sq. Yd. |       | 839   | 839   |
| Filter Fabric                            | Sq. Yd. |       | 839   | 839   |
| Removal of Existing Structures           | Each    | 1     |       | 1     |
| Structure Excavation                     | Cu. Yd. |       | 49.2  | 49.2  |
| Concrete Structures                      | Cu. Yd. |       | 74.2  | 74.2  |
| Concrete Superstructure                  | Cu. Yd. | 267.9 |       | 267.9 |
| Bridge Deck Grooving                     | Sq. Yd. | 650   |       | 650   |
| Concrete Encasement                      | Cu. Yd. |       | 4.8   | 4.8   |
| Protective Coat                          | Sq. Yd. | 745   |       | 745   |
| Furnishing and Erecting Structural Steel | L. Sum  | 1     |       | 1     |
| Stud Shear Connectors                    | Each    | 1092  |       | 1092  |
| Reinforcement Bars, Epoxy Coated         | Pound   | 6180  | 8840  | 70020 |
| Bar Splicers                             | Each    | 528   | 102   | 630   |
| Furnishing Steel Piles HP12x53           | Foot    |       | 777   | 777   |
| Driving Piles                            | Foot    |       | 777   | 777   |
| Pile Shoes                               | Each    |       | 14    | 14    |
| Temporary Sheet Piling                   | Sq. Ft. |       | 408   | 408   |
| Name Plates                              | Each    | 1     |       | 1     |
| Anchor Bolt 1" φ                         | Each    | 28    |       | 28    |
| Geocomposite Wall Drain                  | Sq. Yd. |       | 100.3 | 100.3 |
| Pipe Underdrains for Structures, 4"      | Foot    |       | 173   | 173   |

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts. Bolts 3/4" φ, holes 15/16" φ, unless otherwise noted. Calculated weight of Structural Steel = 159,410 lbs. (M270 Grade 50). Calculated weight of Structural Steel = 11,550 lbs. (M270 Grade 36). No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be blue, Munsell No. 10B 3/6. Slipforming of the parapets is not allowed.

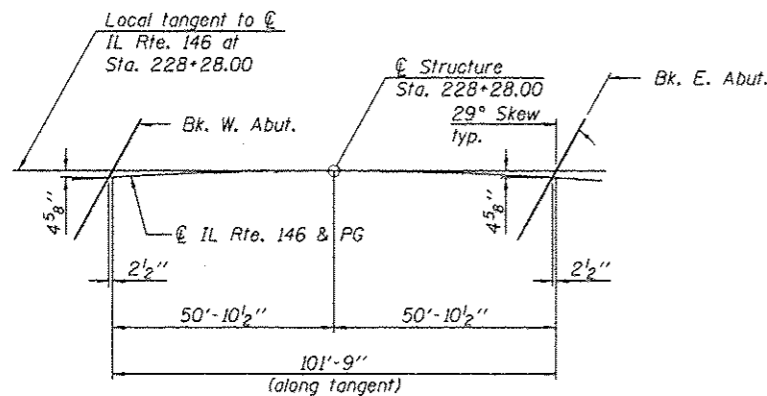


**EXISTING CHORD FIELD SURVEY**

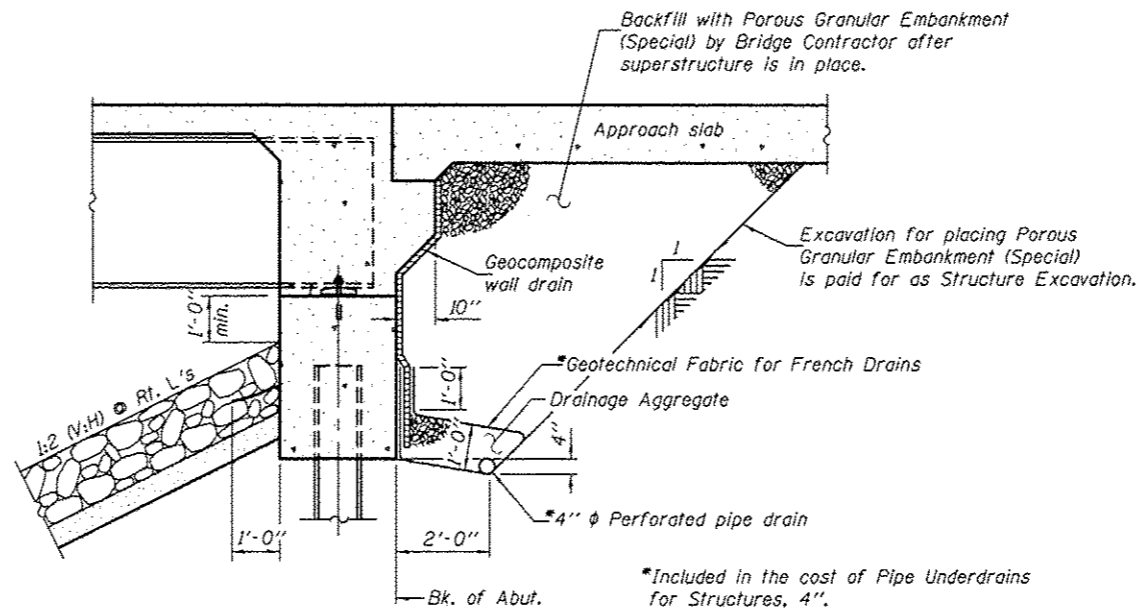
Note: Existing beam lines are not built parallel to the local tangent as per existing plans.

**CURVE DATA**

Δ = 40°37'09" Rt.  
 D = 1°41'55"  
 T = 1,248.33'  
 L = 2,391.20'  
 E = 223.59'  
 R = 3,372.94'  
 P.C. = Sta. 216+93.82  
 P.I. = Sta. 240+85.02  
 P.T. = Sta. 229+42.15  
 S.E. = 0.02'/ft

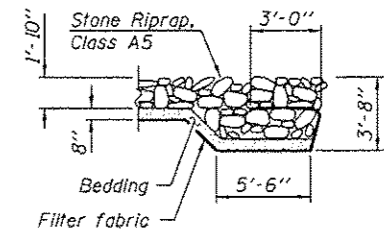


**OFFSET SKETCH**

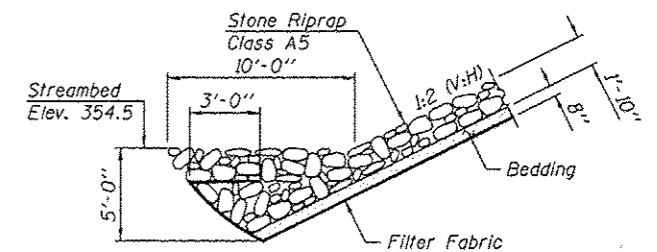


**SECTION THRU INTEGRAL ABUTMENT**  
 (Horiz. dim. @ Rt. L's)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



**SECTION B-B**



**SECTION A-A**

⚠ SHEET ADDED 1-4-13

|                              |   |                          |   |                               |  |                           |               |               |                 |              |
|------------------------------|---|--------------------------|---|-------------------------------|--|---------------------------|---------------|---------------|-----------------|--------------|
| DESIGNED - Michael D. Rolape | EXAMINED - <i>James F. [Signature]</i>    | DATE - NOVEMBER 21, 2012 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>GENERAL DATA</b>           |  | F.A.P. RTE. 885           | SECTION 11B-1 | COUNTY HARDIN | TOTAL SHEETS 50 | SHEET NO. 22 |
| CHECKED - Stephen M. Ryan    | PASSSED - <i>Carl [Signature]</i>         | REVISED                  |   | <b>STRUCTURE NO. 035-0016</b> |  | CONTRACT NO. 78152        |               |               |                 |              |
| DRAWN - h.f. duong           | ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED                  |   | SHEET NO. 2 OF 21 SHEETS      |  | ILLINOIS FED. AID PROJECT |               |               |                 |              |
| CHECKED - GRA/SMR            |   |                          |   |                               |  |                           |               |               |                 |              |