

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

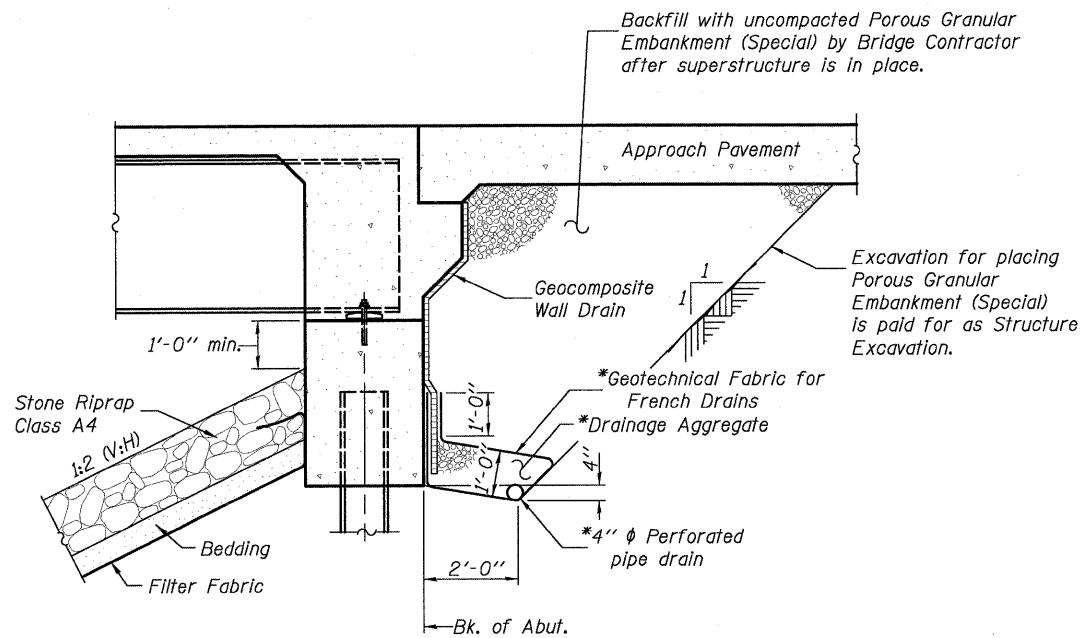
TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|---------|--------|-------|--------|
| Porous Granular Embankment (Special) | Cu. Yd. | — | 98 | 98 |
| Stone Riprap, Class A4 | Sq. Yd. | — | 544 | 544 |
| Filter Fabric | Sq. Yd. | — | 544 | 544 |
| Removal of Existing Structures | Each | — | — | 1 |
| Structure Excavation | Cu. Yd. | — | 142 | 142 |
| Floor Drains | Each | 8 | — | 8 |
| Concrete Structures | Cu. Yd. | — | 32.0 | 32.0 |
| Concrete Superstructure | Cu. Yd. | 91.9 | — | 91.9 |
| Bridge Deck Grooving | Sq. Yd. | 210 | — | 210 |
| Concrete Encasement | Cu. Yd. | — | 4.2 | 4.2 |
| ** Protective Coat | Sq. Yd. | 277 | — | 277 |
| Furnishing and Erecting Structural Steel | L. Sum | 1 | — | 1 |
| Stud Shear Connectors | Each | 1,116 | — | 1,116 |
| Reinforcement Bars, Epoxy Coated | Pound | 18,130 | 6,080 | 24,210 |
| Bar Splicers | Each | 264 | 18 | 282 |
| Furnishing Steel Piles HP 12x53 | Foot | — | 660 | 660 |
| Driving Piles | Foot | — | 660 | 660 |
| Pile Shoes | Each | — | 12 | 12 |
| Temporary Sheet Piling | Sq. Ft. | — | — | 866 |
| Name Plates | Each | 1 | — | 1 |
| Anchor Bolts, 1" | Each | — | 24 | 24 |
| Geocomposite Wall Drain | Sq. Yd. | — | 56 | 56 |
| Pipe Underdrains for Structures 4" | Foot | — | 170 | 170 |
| Asbestos Bearing Pad Removal | Each | 22 | — | 22 |

** Quantity includes top of concrete surface of bridge deck back to back of abutments and the top and inside vertical faces of the parapets

GENERAL NOTES

- The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure. If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.
- Piles shall be driven through 24" diameter precored holes extending to elevation 439.0 (East Abutment) and elevation 439.0 (West Abutment) according to Article 512.09(c) of the Standard Specifications. Excavation and footing removal optional per Contractor. Cost included in Driving Piles.
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 3/4 in. φ, holes 5/16 in. φ, unless otherwise noted.
- Calculated weight of Structural Steel = 57,610 lbs.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- 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 Gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Slipforming of the parapets is not allowed.

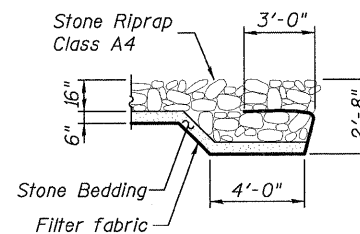


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

Note:

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).



STONE RIPRAP FLANK DETAIL

| | |
|----------|--------|
| DESIGNED | K.M.M. |
| CHECKED | L.D.G. |
| DRAWN | K.H.L. |
| CHECKED | B.G.H. |

GENERAL DATA

| | | | | | |
|---|---------------|---------|--------------------|--------------|-----------|
| SHEET NO. 2 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 325 | 3BR-2 | JERSEY | 96 | 43 |
| 21 SHEETS | S.N. 042-0041 | | CONTRACT NO. 76B01 | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |