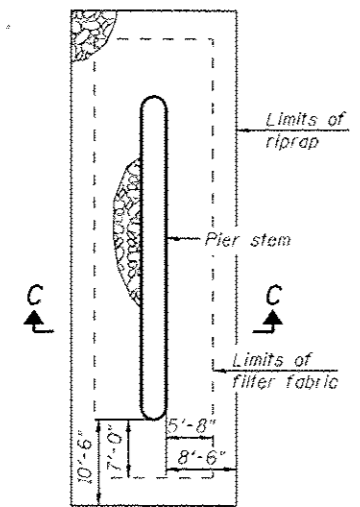


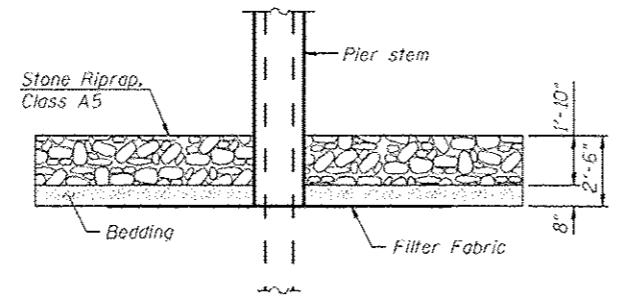
SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

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).



PIER 2 RIPRAP DETAIL



SECTION C-C

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 7/8-in. ϕ , holes 15/16-in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 465,510 Pounds.

All structural steel shall be AASHTO M 270 Grade 50W (except approach expansion joints which shall be AASHTO M 270 Grade 36).

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1'-6". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

Current Ratings on File for Existing Structure
S.N. 069-0520:
Inventory - HS 18.9
Operating - HS 31.6
Live Load Restrictions: No
Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS Loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

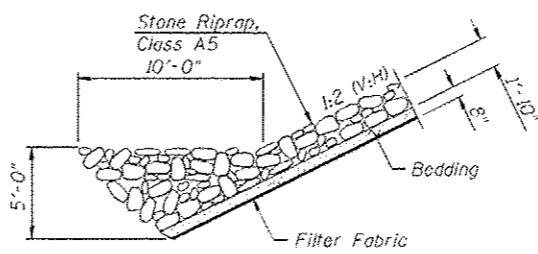
TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|---------|---------|--------|---------|
| Granular Backfill for Structures | Cu. Yd. | | 178 | 178 |
| Stone Riprap, Class A5 | Sq. Yd. | | 1,342 | 1,342 |
| Filter Fabric | Sq. Yd. | | 1,202 | 1,202 |
| Removal of Existing Structures | Each | | 1 | 1 |
| Structure Excavation | Cu. Yd. | | 358 | 358 |
| Cofferdam Excavation | Cu. Yd. | | 116 | 116 |
| Cofferdam (Type 2) (Location-1) | Each | | 1 | 1 |
| Concrete Structures | Cu. Yd. | | 219.4 | 219.4 |
| Concrete Superstructure | Cu. Yd. | 455.6 | | 455.6 |
| Bridge Deck Grooving | Sq. Yd. | 1,434 | | 1,434 |
| Seal Coat Concrete | Cu. Yd. | | 32.3 | 32.3 |
| Protective Coat | Sq. Yd. | 1,820 | | 1,820 |
| Furnishing and Erecting Structural Steel | L. Sum | 1 | | 1 |
| Stud Shear Connectors | Each | 4,662 | | 4,662 |
| Reinforcement Bars, Epoxy Coated | Pound | 105,320 | 24,910 | 130,230 |
| Bar Splitters | Each | 1,014 | 182 | 1,196 |
| Furnishing Steel Piles HPI2x63 | Foot | | 660 | 660 |
| Furnishing Steel Piles HPI4x89 | Foot | | 680 | 680 |
| Driving Piles | Foot | | 1,340 | 1,340 |
| Test Pile Steel HPI2x63 | Each | | 2 | 2 |
| Test Pile Steel HPI4x89 | Each | | 2 | 2 |
| Name Plates | Each | | | 1 |
| Preformed Joint Strip Seal | Foot | 76 | | 76 |
| Anchor Bolts, 1" | Each | 56 | | 56 |
| Geocomposite Wall Drain | Sq. Yd. | | 88 | 88 |
| Drainage Scuppers, DS-11 | Each | 2 | | 2 |
| Temporary Sheet Piling | Sq. Ft. | | 1,134 | 1,134 |
| Pipe Underdrains for Structures 4" | Foot | | 166 | 166 |
| Temporary Soil Retention System | Sq. Ft. | | 884 | 884 |
| Concrete Wearing Surface, 5" | Sq. Yd. | 252 | | 252 |
| Precast Bridge Approach Slab | Sq. Ft. | 2,260 | | 2,260 |

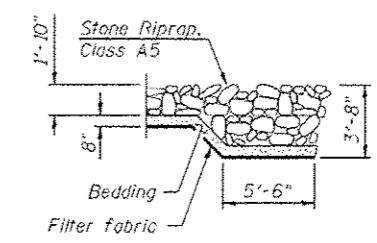
**Quantity Includes Textured Epoxy Coated Reinforcement bars. See Sheets 14 and 20 of 33.

STATION 194+27.00
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 614 SEC. 147B-3
LOADING HL-93
STRUCTURE NO. 069-0520

NAME PLATE
See Std. 515001



SECTION A-A



SECTION B-B

| | | | |
|--|--------------------------------|----------------|--------------------------|
| FILE NAME = | USER NAME = | DESIGNED - RJP | REVISED - 01/09/2015 ADL |
| D:\107\105\100019\101 - 1 - 78 Indian Creek Bridge Plans\GPE & Details.dgn | | CHECKED - ADL | REVISED - |
| | PLOT SCALE = 25.0000' / 1" IN. | DRAWN - RJP | REVISED - |
| | PLOT DATE = 1/9/2015 | CHECKED - ADL | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 069-0520
SHEET NO. 2 OF 33 SHEETS

| | | | | |
|---------------------------|------------------|-----------------|--------------------|----------------|
| F.A.P. RTE. = 614 | SECTION = 147B-3 | COUNTY = MORGAN | TOTAL SHEETS = 93 | SHEET NO. = 42 |
| | | | CONTRACT NO. 72A97 | |
| ILLINOIS FED. AID PROJECT | | | | |

Klingner & Associates P.C.