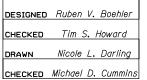
GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ " ϕ , open holes 1. ⁷⁸ "\$, unless otherwise noted.
- No field welding is permitted except as specified in the contract documents. 2.
- 3. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M300. Type 1.
- Reinforcement bars designated (E) shall be epoxy coated. 4.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. 5. See Special Provisions
- 6. Plan dimensions and details relative to existing plans are subject to routine 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 the scope of work, however, the Contractor will be paid for the quantity actually furnished based on the unit price bid for the work.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of l_{β} in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the 7. bearina.
 - Two ${}^{l}_{R}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose 8. potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

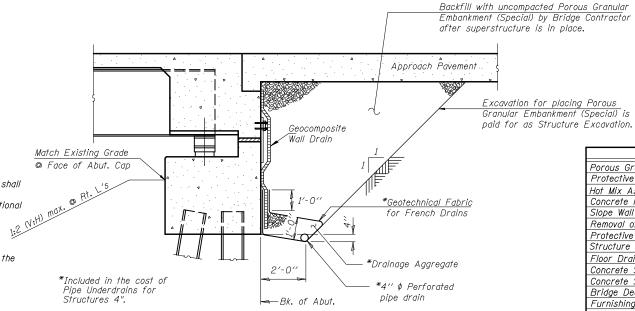
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that can not be removed by grinding $^{l}_{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing weld accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions 9. to deal with the presence of lead on this project.
- Cleaning and field painting of structural steel shall be done under a separate painting contract. 10.
- 11. Existing structural steel shall only be cleaned and painted as required by the special provision Cleaning and Painting Contact Surface Areas of Existing Steel Structures.
- The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), 12. magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
- Partial depth saw cutting of the existing concrete deck over the top of beam or girder flanges shall be 13. permitted. See Special Provision for Removal of Existing Non-Composite Bridge Decks.
- 14. Slipforming of the concrete parapets is not allowed.



NOTE

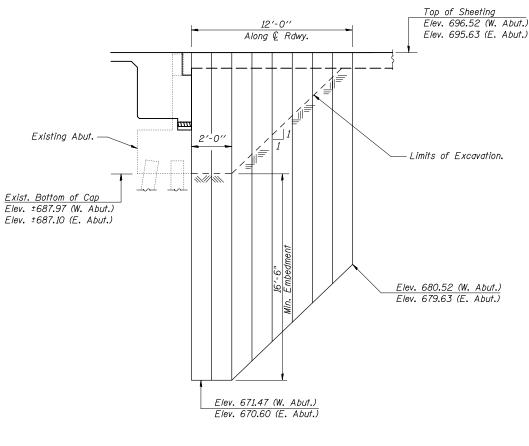
Plan elevations relative to the existing structure have been taken from existing plans and reduced by 0.47 feet to match benchmark datum.



SECTION THRU SEMI-INTEGRAL ABUTMENT (Dimensions at Rt. L's)

Note:

All drainage system components shall extend to 2'-O'' 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).



TEMPORARY SHEET PILING AT ABUTMENTS

Dimensions at Rt. L's unless noted otherwise

| ROUTE NO. | SECTION | COUNTY DOUGLAS | | TOTAL SHEETS | SHEET NO. | |
|------------------------------|----------------------|-------------------|---------|-----------------|--------------|--|
| F.A.I. 57 | (15,21-25HB -2)BR | | | 65 | 38 | |
| FED. ROAD DIST. NO. 5 | | ILLINOIS | PROJECT | | | |
| Sheet 2 of 22 CONTRACT #9095 | | | | | | |

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|---------|--------------|--------------|---------|
| Porous Granular Embankment (Special) | Cu. Yd. | | 282 | 282 |
| Protective Coat | Sq. Yd. | <i>1</i> 557 | | 1557 |
| Hot Mix Asphalt Surface Removal (Deck) | Sq. Yd. | 452 | | 452 |
| Concrete Removal | Cu. Yd. | | 46.9 | 46.9 |
| Slope Wall Removal | Sq. Yd. | | 132 | 132 |
| Removal of Existing Concrete Deck | Each | 1 | | 1 |
| Protective Shield | Sq. Yd. | 832 | | 832 |
| Structure Excavation | Cu. Yd. | | 311 | 311 |
| Floor Drains | Each | 8 | | 8 |
| Concrete Structures | Cu. Yd. | | 11.8 | 11.8 |
| Concrete Superstructure | Cu. Yd. | 487.9 | | 487.9 |
| Bridge Deck Grooving | Sq. Yd. | 654 | | 654 |
| Furnishing and Erecting Structural Steel | Pound | 3530 | | 3530 |
| Stud Shear Connectors | Each | 4995 | | 4995 |
| Jack and Remove Existing Bearings | Each | 18 | | 18 |
| Reinforcement Bars, Epoxy Coated | Pound | 103,485 | 1,610 | 105,095 |
| Bar Splicers | Each | 784 | 4 | 788 |
| Slope Wall 4" | Sq. Yd. | | 200 | 200 |
| Temporary Sheet Piling | Sq. Ft. | | 5 <i>1</i> 9 | 519 |
| Name Plates | Each | | 2 | 2 |
| Elastomeric Bearing Assembly, Type I | Each | 18 | | 18 |
| Geocomposite Wall Drain | Sq. Yd. | | 112 | 112 |
| Pipe Underdrain for Structures 4" | Foot | | 190 | 190 |
| Polymer Concrete | Cu. Ft. | 2.2 | | 2.2 |
| Drainage Scuppers, DS-11 | Each | 2 | | 2 |
| Diamond Grinding (Bridge Section) | Sq. Yd. | 997 | | 997 |
| Anchor Bolts, 1" | Each | 36 | | 36 |

** Quantity includes bridge deck and approach pavements. See Special Provision.

TEMPORARY SHEET PILING DATA

Minimum Section Modulus Embedment Tip Elevation Length Required

= 13.5 in³/ft = Refer to Detail

= Refer to Detail

If the Contractor chooses to alter the temporary Note: cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

GENERAL NOTES, DETAILS & TOTAL BILL OF MATERIAL IL ROUTE 133 OVER I-57 F.A.I. ROUTE 57 SECTION (15,21-25HB-2)BR DOUGLAS COUNTY STA. 1492+76.53 S.N. 021-0024 JOB **#:** 2114 FILE: 2114BILLMAT CUMMINS ENGINEERING CORPORATION ATE: 10/24/06