#### GENERAL NOTES

- Fasteners shall be AASHTO MI64 Type 1, mechanically galvanized bolts. Bolts <sup>7</sup>8 in. \$\phi\$, holes <sup>15</sup>6 in. \$\phi\$, unless otherwise noted.
- Calculated weight of Grade 36 Structural Steel = 16,930 lbs Calculated weight of Grade 50 Structural Steel = 262,520 lbs,
- 3: No field welding is permitted except as specified in the contract documents.
- 4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a talerance of 'g inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the begrings.
- 7. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where atherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be louched up in the field. All final surfaces of the beams shall be painted with light grey (Munsell color Standard IOY 771) except the exterior surfaces of the exterior beams which shall be painted with interstate green (Munsell color Standard 7.56 4/8), See Special Provision for "Cleaning and Painting New Metal Structures".
- The Contractor shall drive test piles to 110X of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- 9. Slopewall shall be reinforced with welded wire fabric, 6" x 6" W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- 10. The Contractor is advised that the existing PPC I beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the conditions of the beams when developing construction procedures for removal and replacement of the Superstructure.
- II. If the Contractor's procedures for existing PPC I beam removal or replacement of new beams involves the placement of heavy equipment on the existing deck, a detailed procedure shall be provided which includes calculations, sealed by an Illinois licensed Structural Engineer, verifying the adequacy of the existing structure, for the proposed loads. This cost shall be included in the contract unit cost, each, for Removal of Existing Structure.
- 12. In lieu of the hammer selection criteria and use of the FHWA modified gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a Nominal required Bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.
- 13. Slip forming of the parapets will not be allowed.

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

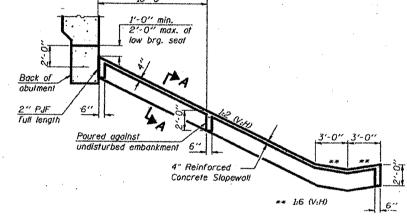
#### INDEX OF SHEETS

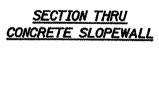
- I. General Plan and Elevation
- 2. General Data
- 3. Top of Slab Elevation Plan
- 4. Top of Slab Elevations
- 5. Top of North Approach Slab Elevations
- 6. Top of South Approach Slab Elevations
- 7. Superstructure Plan
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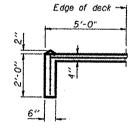
### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		122	122
Removal of Existing Structures	Each	I	- +	1
Structure Excavation	Cu. Yd.		208	208
Protective Coat	Sq. Yd.	1127		1127
Bridge Deck Grooving	Sq. Yd.	810	- ~	810
Furnishing & Erecting Structural Steel	L. Sum	1		1
Furnishing Steel Piles HP12x53	Foot		780	780
Furnishing Steel Piles HP14x102	Foot		574	574
Driving Piles	Foot .		1354	1354
Reinforcement Bars, Epoxy Coated	Pounds	76,865	13,785	90,650
Name Plates	Each		1	1
Stud Shear Connectors	Each	1872	+ -	1872
Bar Splicers	Each	62	• •	62
Drainage Scuppers, DS-11	Each	4		4
Slope Wall 4"	Sq. Yd.		424	424
Concrete Structures	Cu. Yd.		111.9	111.9
Concrete Superstructure	Cu. Yd.	342.4		342.4
Pipe Underdrains for Structures 4"	Foot	• •	119	119
Protective Shield	Sq. Yd.	430		430
Concrete Encasement	Cu. Yd.		8.6	8.6
Anchor Bolts, I"	Each		36	36
Geocomposite Wall Drain	Sq. Yd.	÷.	38	38
Test Pile Steel HP12x53	Each		2	2
Test Pile Steel HP14x102	Each	~ -	1	1
Braced Excavation	Cu. Yd.		х	X
Mechanical Splicers	Each		36	<i>3</i> 6
Permanent Bench Warks	Each	1		1

<sup>\*</sup> Protective Shield required only for spans 2 & 3 of the existing structure.







SECTION A-A

## <u>GENERAL DATA</u> STRUCTURE NO. 010-0285

SHEET NO. 2		F.A.I. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	74 (10-6HB-5)BR		CHAMPAIGN	63	14
			SN 010-0285	CONTRACT	NO. 90	875
		FED. RO	AD DIST. NO. 5 ILLINOIS FED. A	ID PROJECT	~~~~	

Backfill with uncompacted Parous Granular Embankment Special by Bridge Contractor after Superstructure is in place. Const. joint Approach Slab 40" Web # Girder (Comp.) Excavation for placing Porous € 2" Thick Rocker ₽-Granular Embankment Special Geocomposite is paid for as Structure Excavation wall drain Geotechnical Fabric for French Drains ' Drainage Aggregate \* Included in the cost of Pipe Underdrains for Structure, 4". \* 4" # Perforated Steel H-Piles All drainage system components shall extend 2'-0" 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 Specification and Highway

Standard 601101.)

SECTION THRU INTEGRAL ABUTMENT

DESIGNED CJC / MEB
CHECKED JSP

DRAWN UJ

CHECKED MEB

HURST-ROSCHE ENGINEERS, INC.