GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 7_8 ϕ , holes 15_{16} ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 381,755 lbs.

All structural steel shall be AASHTO M 270 Grade 50W.

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.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of l_8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

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 specified substructures. The analysis and calculations shall be submitted to the Engineer for approval.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number as shown in the contract plans.

Slipforming of parapets is not allowed.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carring capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.

If the Contractor's procedures for existing deck 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 Structure No. 1.

Current Ratings (9/22/08) on File for Existing Structure No. 063-0007 Inventory: HS 15 Operating: HS 26.1 Live Load Restrictions: No

Inventory and Operating Ratings are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration using the load factor method. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and the Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

26

Sub-Surface Profile

27-29 Boring Logs

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION







Hanson Professional Services Inc

TUTAL DILL				
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	182	182
Stone Riprap, Class A4	Sq. Yd.	-	1311	1311
Filter Fabric	Sq. Yd.	-	1311	1311
Removal of Existing Structures No. 1	Each	-	-	1
Structure Excavation	Cu. Yd.	-	146	146
Concrete Structures	Cu. Yd.	-	89.7	89.7
Concrete Superstructure	Cu. Yd.	444.5	-	444.5
Bridge Deck Grooving	Sq. Yd.	1281	-	1281
Concrete Encasement	Cu. Yd.	-	6.6	6.6
Protective Coat	Sq. Yd.	1599	-	1599
Furnishing and Erecting Structural Steel	L. Sum	0.12	-	0.12
Stud Shear Connectors	Each	3924	-	3924
Reinforcement Bars	Pound	-	12050	12050
Reinforcement Bars, Epoxy Coated	Pound	106070	5 <i>21</i> 00	158170
Bar Splicers	Each	1095	80	1175
Furnishing Steel Piles HP14x89	Foot	-	740	740
Driving Piles	Foot	-	740	740
Test Pile Steel HP14x89	Each	-	2	2
Pile Shoes	Each	-	12	12
Temporary Sheet Piling	Sq. Ft.	-	231	231
Name Plates	Each	1	-	1
Permanent Casing	Foot	-	444	444
Drilled Shaft in Soil	Cu. Yd.	-	<i>169</i> .6	<i>169.6</i>
Drilled Shaft in Rock	Cu. Yd.	-	18.8	18.8
Anchor Bolts, 1"	Each	24	-	24
Anchor Bolts, 1 ¹ 4"	Each	24	-	24
Geocomposite Wall Drain	Sq. Yd.	-	92	92
Pipe Underdrains for Structures 4"	Foot	-	156	156
Drainage Scuppers, DS-11	Each	6	-	6
Temporary Soil Retention System	Sq. Ft.	-	60	60
Asbestos Bearing Pad Removal	Each	220	-	220
		-	-	-

TOTAL BILL OF MATERIAL

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 slope. The pipes shall drain into concrete headwalls. (See Artical 601.05 of the Standard Specifications and Highway Standard 601101)



NAME PLATE

ET NO.2	F.A. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
	614	144(B-1, B-2)			Mason	351	109	
SHEETS		CON					NO. 72/	476
	FED. RC	DAD DIST.	NO.	ILLINOIS	FED. AI	D PROJECT		