GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts ⁷8 in. dia., holes ¹⁵16 in. dia., unless otherwise noted.
- 2. Calculated weight of structural steel = 122,350 pounds.
- 3. All structural steel shall be AASHTO M 270 Grade 50W.
- 4. No field welding is permitted except as specified in the contract documents.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of l_g in. (0.01 ft.). Adjustment shall be made either by grinding the surface or shimming the bearings.
- 7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- 8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 9. 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.
- 10. If the Contractor chooses to alter the temporary 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.
- 11. Slipforming of the parapets is not allowed.
- 12. Current Ratings on File for Existing Structure

Inventory: HS 16.5 Operating: HS 28.2 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 eauipment.

13. 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.



*Included in the cost of Pipe Underdrain for Structures 4"

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend from the wingwall on the low side until intersecting with the side slopes. The pipe shall drain into a concrete headwall. (See Article 601.05 of the Standard Specifications and Highway Standard 601101.)

Min. Section

Modulus =

10.6 in. /ft. 56.1 in. /ft.

Min. Section

Modulus =

ITEN Porous Granular Embankmei Removal and Disposal of Ur Stone Riprap Class A5 Filter Fabric Removal of Existing Structu Structure Excavation Cofferdam Excavation Cofferdam (Type 2) (Locatio Cofferdam (Type 2) (Locatio Concrete Structures Concrete Superstructure Bridge Deck Grooving Seal Coat Concrete Concrete Encasement Protective Coat Furnishing and Erecting Sti Stud Shear Connectors Reinforcement Bars, Epoxy Bar Splicers Furnishing Steel Piles HP12 Furnishing Steel Piles HP14 Driving Piles Test Pile Steel HP12x53 Test Pile Steel HP14x73 Pile Shoes Name Plates Anchor Bolts, 34 Anchor Bolts, 1 Geocomposite Wall Drain Pipe Underdrains for Struc.

Temporary Sheet Piling Asbestos Bearing Pad Rem



DESIGN SCOUR ELEVATION TABLE

W. Abut.	Pier 1	Pier 2	E. Abut.
743.0	730.0	730.0	744.0

WATERWAY INFORMATION

Drainage Are	rainage Area = 40.6 sq. mi.				Exist. Low Grade Elev. = 747.11 @ Sta. 670+90 Prop. Low Grade Elev. = 749.05 @ Sta. 670+58					
Flood	Freg. Q Opening Sq. Ft. Nat. Head					Head ·	- Ft.	Headwater El.		
F 1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
Ten Year	10	2700	478	797	743.0	0.4		743.4	743.0	
Design	50	4210	537	883	743.7	1.0	0.0	744.7	743.8	
Base	100	4880	563	921	744.0	1.2	0.1	745.3	744.1	
Max. Calc.	500	6530	617	997	744.6	2.0	0.3	746.6	744.8	

10-Year Velocity through Existing Bridge = 5.6 fps

10-Year Velocity through Proposed Bridge = 3.4 fps



007			
	(Looking	North)	

		USER NAME = SAW	DESIGNED - JLA	REVISED -		GENERAL DATA	F.A.P.	SECTION	COUNTY TOTAL SHEET
AME	ROKA Zroka Engineering, P.C. 4216 North Hermitage		CHECKED - DAZ	REVISED -	STATE OF ILLINOIS	S.N. 008–0049	17	4BR-5	CARROLL 150 41
ž	engineering Chicago, IL 60613	PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - SAW	REVISED -	DEPARTMENT OF TRANSPORTATION		í		CONTRACT NO. 64D83
긑		PLOT DATE = 8/19/2013	CHECKED - JLA	REVISED -		SHEET NO. SA-2 OF SA-24 SHEETS	í	ILLINOIS FED.	AID PROJECT

-5'-2³/"

Min. Section

Modulus = 56.1 in.³/ft.

И	UNIT	SUPER	SUB	TOTAL
nt, Special	Cu. Yd.		112	112
nsuitable Material for Structures	Cu. Yd.		16	16
	Sq. Yd.		1,364	1,364
	Sq. Yd.		1.364	1,364
ures No. 1	Each		1	1
	Cu. Yd.		256	256
	Cu. Yd.		381	381
on-1)	Each		1	1
on-2)	Each		1	1
	Cu. Yd.		159.7	159.7
	Cu. Yd.	330.8		330.8
	Sq. Yd.	780		780
	Cu. Yd.		98.9	98.9
	Cu. Yd.		4.0	4.0
	Sq. Yd.	963		963
ructural Steel	L. Sum	0.5		0.5
	Each	4,878		4,878
Coated	Pound	76,300	20,580	96,880
	Each	710	200	910
2x53	Foot		425	425
1x73	Foot		600	600
	Foot		1,025	1,025
	Each		2	2
	Each		2	2
	Each		28	28
	Each	1		1
	Each		24	24
	Each		24	24
	Sq. Yd.		58	58
tures 4"	Foot		132	132
	Sq. Ft.		1,364	1,364
noval	Each		30	30



*Minimum Tip Elevation of Sheet Piling

TOTAL BILL OF MATERIAL