

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONTRACT 62829

F.A.L. REF. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2004-088B	COOK	145	85
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SHEET NO. SB-2  
OF SHEETS SB-44

GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts  $\frac{1}{8}$ "  $\phi$ , open holes  $\frac{1}{8}$ "  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel = 223,700 lbs.
- The inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be reddish brown, Munsell No. 2.5YR3/4. See Special Provision for "Cleaning and Painting New Metal Structures". Shop coat has been applied under a separate contract, and the contractor of this contract (62829) is responsible for repair of field damage to the shop coat. Field coat will be applied under a separate contract.
- Field welding of construction accessories will not be permitted to beams or girders.
- Anchor bolts shall be set before bolting diaphragms over supports.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material, except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $\frac{1}{8}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
- The contractor shall drive (1) HP Test Pile in a permanent location at piers 1 and 2 and at each abutment (total 4) as directed by the Engineer before ordering the remainder of piles.
- Prior to pouring the new concrete deck, all loose rust, loose mill scale, and all other loose potentially detrimental foreign material shall be removed from the surfaces of the beams in contact with concrete. The cost of this work will be included in the pay item covering removal of the existing concrete. All heavy rust and other tightly adhered potentially detrimental foreign matter shall also be removed from the surfaces of the beams in contact with concrete. Tightly adhered paint may remain unless otherwise noted. This removal shall be accomplished by methods that will not damage the steel. The cost of this work will be paid for according to Article 109.04.
- Bridge seat sealer shall be applied to the seat area of the east and west abutments.
- All existing construction accessories welded to the top flange over the pier between the quarter points of the beams shall be removed. The remaining weld shall be ground smooth and inspected for cracks using magnetic particle testing. Any cracks that cannot be removed by grinding approximately  $\frac{1}{4}$  inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of this work will be paid for according to Article 109.04.
- 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 existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The embankment configuration shall be the minimum embankment that must be constructed prior to construction of the abutment widening.
- The contractor shall test the welds at the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant, magnetic particle, or other approved testing method shall be performed by personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for further processing. The cost of testing is included with Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid according to Article 109.04 of the Standard Specifications.
- All construction joints shall be bonded.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		31	31
Removal of Existing Concrete Deck	Each	1		1
Structure Excavation	Cu. Yd.		535	535
Neoprene Expansion Joint 2"	Foot	190		190
Concrete Structures	Cu. Yd.		390	390
Concrete Superstructure	Cu. Yd.	744		744
Bridge Deck Grooving	Sq. Yd.	2,680		2,680
Protective Coat	Sq. Yd.	3,850		3,850
Erecting Elastomeric Bearing Assembly, Type II	Each	28		28
Formed Concrete Repair (Depth equal to or less than 5')	Sq. Ft.		129	129
Erecting Structural Steel	L. Sum	0.3		0.3
Stud Shear Connectors	Each	12,438		12,438
Jack and Remove Existing Bearings	Each	40		40
Protective Shield	Sq. Yd.		1991	1991
Reinforcement Bars, Epoxy Coated	Pound	196,300	32,400	228,700
Bar Splicers	Each	1,457	206	1663
Bridge Seat Sealer	Sq. Ft.		2,200	2,200
Epoxy Crack Sealing	Foot		73	73
Drainage Scuppers, DS-33	Each	4		4
Drainage Scuppers, DS-12	Each	4		4
Cofferdam Excavation	Cu. Yd.		235	235
Cofferdam (Pier 2)	Each		2	2
Cofferdam (Pier 3)	Each		2	2
Seal Coat Concrete	Cu. Yd.		135	135
Erecting Elastomeric Bearing Assembly, Type I	Each	28		28
Stone Riprap, Class A5	Sq. Yd.		430	430
Driving Steel Piles	Foot		1886	1886
Furnishing Steel Piles HP12x53	Foot		1886	1886
Test Pile Steel HP12x53	Each		4	4
Underwater Structure Excavation Protection Location 1	Each		2	2
Name Plates	Each	1		1
Porous Granular Embankment	Cu. Yd.		70	70
Pipe Drains, Perforated PVC, 8 Inch	Foot		35	35

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DESIGNED	EL
CHECKED	JAS
DRAWN	ABW
CHECKED	EL

GENERAL NOTES AND  
BILL OF MATERIALS  
WILLOW ROAD OVER  
DES PLAINES RIVER  
F.A.P. RTE. 305  
SECTION 2004-088B  
COOK COUNTY  
STA. 397+76.18  
STR. NO. 016-0530

EDWARDS AND KELCEY

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