

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL	SHEET NO. 2
F.A.P. 313	18-HB	KNOX	70	25	23 SHEETS
FED. ROAD DIST. NO. 7	ALLIGS	FED. AID PROJECT			

Contract #68190

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SCOPE OF WORK

1. Remove and replace existing bridge deck and vaulted approach spans.
2. Remove and replace bearings at abutments.
3. Remove and replace end diaphragms.
4. Repair substructure.
5. Remove and replace slopewalls.
6. Remove top of existing wing walls.
7. Clean and paint existing Structural Steel.

*Removal of the existing approach span slabs is included in this pay item. Portions of existing rebar are to be reused in new approach span slabs as shown on sheet 19 of 23.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
*Removal of Existing Concrete Deck	Each			1
Protective Coat	Sq. Yd.	823		823
Concrete Superstructure	Cu. Yd.	252.6		252.6
Reinforcement Bars, Epoxy Coated	Pound	56,220	110	56,330
Name Plates	Each	1		1
Bridge Deck Grooving	Sq. Yd.	608		608
Furnishing & Erecting Structural Steel	Pound	4490		4490
Stud Shear Connectors	Each	990		990
Cleaning and Painting Steel Bridge	L.Sum			1
Slope Wall 4 inch	Sq. Yd.		289	289
Protective Shield	Sq. Yd.	400		400
Concrete Removal	Cu. Yd.	4.5		4.5
Structural Steel Removal	Pound	2820		2820
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.		139	139
Jack and Remove Existing Bearings	Each		10	10
Elastomeric Bearing Assembly, Type 1	Each		10	10
Preformed Joint Strip Seal	Foot	62		62
Drainage Scuppers, DS-II	Each	4		4
Epoxy Crack Injection	Foot		13.5	13.5
Containment and Disposal of Lead	L.Sum			1
Paint Cleaning Residues	L.Sum			1
Slope Wall Removal	Sq. Yd.		248	248
Anchor Bolts, 1"	Each		40	40

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ " ϕ , holes $\frac{13}{16}$ " ϕ , unless otherwise noted. 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 (LL Modified). See Special Provisions. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or 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 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 cannot be removed by grinding $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications. 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work. The SSPC-QP1 and SSPC-QP2 Painting Contractor Certifications will not be required for this bridge. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft. Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning-SSPC-SPI0. All existing steel shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/L. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No 10B 3/6. Reinforcement bars designated (E) shall be epoxy coated.

DESIGNED Stephen M. Ryan	Nov. 20 2007
CHECKED Phillip R. Litchfield	EXAMINED <i>Thomas J. Damagala</i>
DRAWN R. Sommer	PASSED <i>Ralph E. Anderson</i>
CHECKED SMR/SEM	

GENERAL DATA
F.A.P. RT. 313 SECTION 18-HB
KNOX COUNTY
STATION 20+11.14
STRUCTURE NO. 048-0069