

GENERAL NOTES

1. Calculated weight of Structural Steel = 4,020 lbs (Grade 50).
2. Calculated weight of Structural Steel = 1,130 lbs (Grade 36).
3. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8"φ, holes 15/16"φ, unless otherwise noted.
4. No field welding is permitted except as specified in the contract documents.
5. The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in the Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. 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 beams and 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 qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/4 in. 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.
8. Plan dimensions and details relative to existing plans are subject to nominal construction 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 at the unit price bid for the work.
9. Concrete Sealer shall be applied to the designated areas of the Abutments.
10. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
11. The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
12. In addition to the requirements of Article 501.03 in the Standard Specifications, the Contractor shall evaluate the condition of the existing Protective Shield. Such evaluation shall be performed by a licensed Structural Engineer in Illinois. The cost of this evaluation is included with Protective Shield. If structurally adequate, the existing Protective Shield shall remain in place for demolition of the existing bridge deck. The Contractor shall be paid for this work based on the total quantity of existing and new Protective Shield actually required at the Contract unit price per square yard for Protective Shield. The cost of removing the Protective Shield after curing of the new bridge deck is included in Protective Shield pay item.
13. All new Structural Steel shall be shop painted with an inorganic zinc-rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.
14. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "Cleaning & Painting Contact Surface Areas of Existing Steel Structures".
15. Cleaning and painting of the existing structural steel shall be 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 7/1. The color of the final finish coat for the exterior and bottom flange beams shall be Gray, Munsell No. 5B 7/1.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		49	49
Slope Wall Removal	Sq. Yd.		4	4
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	886		886
Structure Excavation	Cu. Yd.		81	81
Concrete Structures	Cu. Yd.		94.8	94.8
Concrete Superstructure	Cu. Yd.	913		913
Floor Drains	Each	6		6
Bridge Deck Grooving	Sq. Yd.	1595		1595
Protective Coat	Sq. Yd.	2648		2648
Furnishing and Erecting Structural Steel	Pound	5,150		5,150
Stud Shear Connectors	Each	6,960		6,960
Reinforcement Bars, Epoxy Coated	Pound	202,730	17,440	220,170
Bar Splicers	Each	184		184
Name Plates	Each	1		1
Slope Wall, 4"	Sq. Yd.		4	4
Preformed Joint Strip Seal	Foot	190		190
Elastomeric Bearing Assembly, Type I	Each	20		20
Anchor Bolts, 1"	Each		40	40
Concrete Sealer	Sq. Ft.		1534	1534
Granular Backfill for Structures	Cu. Yd.		81	81
Type G Inlet Box, Standard 610001	Each	2		2
Controlled Low-Strength Material	Cu. Yd.		33	33
Jack and Remove Existing Bearings	Each	20		20
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1
Structural Repair of Concrete (Depth <= 5")	Sq. Ft.		713	713
Drainage Scuppers, DS-11	Each		2	2
Sealing Cracks	Foot		320	320

BENTON & ASSOCIATES, INC.
QUIGG ENGINEERING INC

FILE NAME 0600104-76G10-002-Data.dgn	USER NAME =	DESIGNED - MBH	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 060-0104	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - DRB	REVISED - _____	55			60-2HB-2	MADISON	52	20	
PLOT SCALE =	DRAWN - MBH	REVISED - _____	CONTRACT NO. 76G10							
PLOT DATE =	CHECKED - RHB	REVISED - _____	SHEET NO. 2 OF 29 SHEETS							
						FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				