

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{13}{16}$ in. ϕ , unless otherwise noted.

Calculated weight of structural steel = 28,023 lbs.

All structural steel shall be AASHTO M 270 Grade 36.

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.

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 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.

Field welding of construction accessories will not be permitted to beams or girders unless otherwise noted.

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.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the designated areas of the pier caps.

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

Load carrying components designated *NTR* shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

A minimum of 2 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues".

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 6 ft (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10 and painted.

The designated areas cleaned per Near White Blast Cleaning shall be painted according to the requirements of Paint System 3 - EM/EM/AC. The color of the final finish coat for all steel surfaces shall be Interstate Green, Munsell No 7.5G 4/8.

All Concrete edges shall be chamfered $\frac{3}{4}$ " unless otherwise noted.

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, other materials as noted.

SSPC Painting Contractor Certification QP1 & QP2 will not be required for this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bridge Deck Grooving	Sq. Yd.	27		27
Protective Coat	Sq. Yd.	33		33
Concrete Structures	Cu. Yd.		129.2	129.2
Concrete Superstructure	Cu. Yd.	10.6		10.6
Elastomeric Bearing Assembly, Type 2	Each	28		28
Drainage System	L. Sum		1	1
Concrete Removal	Cu. Yd.	39	67	106
Furnishing and Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	2290	19260	21550
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.		126	126
Epoxy Crack Injection	Foot		253	253
Bar Splicers	Each	30	78	108
Polymer Concrete	Cu. Ft.	16		16
Neoprene Expansion Joint 6 $\frac{1}{2}$ "	Foot	96		96
Stud Shear Connectors	Each	224		224
Drainage Scupper, DS-11	Each	4		4
Anchor Bolts, 1"	Each		112	112
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum	1		1
** Cleaning and Painting Steel Bridge	L. Sum	1		1
Jacking and Cribbing	Each		8	8
Concrete Encasement	Cu. Yd.		2.2	2.2
Concrete Sealer	Sq. Ft.		652	652
Micro-Piles	Each		4	4
Micropile Load Test	Each		2	2
Micropile Proof Load Test	Each		4	4
Deck Slab Repair (Partial)	Sq. Yd.	10.8		10.8

** All structural steel remaining within 6 ft of Pier 3 and Pier 6 Including painting diaphragms at temporary supports. (See General Notes)

GENERAL NOTES & BILL OF MATERIAL
GARFIELD AVENUE OVER
CANADIAN NATIONAL RAILROAD
CITY OF DECATUR
MACON COUNTY
STA. 12+59.88
STRUCTURE NUMBER 058-6000