GENERAL NOTES

Fasteners shall be ASTM A 325 Type 1, mechanically galvanized botts. Bolts 7_8 " dia., open holes 15/16" dia., unless otherwise noted.

The Contractor shall replace all loose, broken, severely corroded or missing rivers with H.S. bolts. Cost included in Structural Steel Repair. The weight of each bolt, not detailed for replacement within the contract plans, shall be in addition to the quantities shown on the plans.

When existing rivets are removed and replaced with bolts, the rivet shall be removed by:

1) drilling, or 2) using a preumatic chisel to remove the rivet head and a preumatic punch to drive out the shank. If, in the opinion of the Engineer, rivet shanks cannot be removed by punching without damaging the base metal, the rivet shanks shall be removed by drilling.

Before installing each bolt, all nicks, burrs, corrosion, scale, paint and foreign substance shall be removed from inside the hole and from the surfaces around the hole with a power tool to ensure proper seating of the nut, bolt head and washers. Holes in existing material shall be inspected for fatigue cracking. Any cracking found shall be reported to the Engineer. Necessary repairs will be as directed by the Engineer.

Calculated weight of Furnish and Erect Structural Steel = M 270 Grade 36: 29,540 lbs M 270 Grade 50: 429,920 lbs

All new Structural Steel shall conform to M270 Grade 36, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Cost of removal and re-installation of all steel members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair or Furnishing and Erecting Structural Steel.

Prior to pouring the new concrete deck, all heavy or loase rust, loose mill scale, and other loase or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered point may remain unless otherwise nated. 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 wilded 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 'a 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.

Existing cracked tack welds and miscellaneous steel welded to structural members shall be removed as shown on the plans. 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 4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welds, grinding and inspecting weld areas and grinding cracks, as noted on the plans, is included with Structural Steel Repair.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contactor 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.

The Contractor shall field verify all proposed ${\cal R}$ dimensions and spacing of holes prior to ordering steel.

Existing structure plans are available for review in the District office. Contact Tim Padgett at (618) 346-3325.

Structural repairs involving removal and replacement of existing steel components are detailed for replacement in kind. Upon approval by the Engineer, the Contractor may increase angles and/or plate sizes to accommodate current availability restrictions at the expense of the Contractor.

Gaps between the existing steel and the new steel angles and/or cover plates, as well as abandaned holes to be covered by new steel plates and/or angles, shall be sealed with an approved polyurethane sealant. The sealent shall be compatible with the proposed point system and shall be submitted to the Engineer for approval prior to use. All costs associated with the installation of the sealant shall be included with the cost for Structural Steel Repair.

The Contractor shall perform the work with care, so that any materials which are to remain in place shall not be damaged. If the Contractor damages any materials which are to remain in place, the damaged materials shall be replaced or repaired in a manner satisfactory to the Engineer at the expense of the Contractor.

All material removed from the structure, as specified by this contract, shall become the property of the Contractor and disposed of property.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. For this project, the anticipated construction activities within the water are limited to pler repairs, riprap placement, and access to the Illinois riverfront.

PAINTING NOTES

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project as specified in the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

The Contractor shall submit colculations and details demonstrating the structural integrity of the bridge is maintained under the additional imposed loads of the containment system. See special provisions.

A minimum of 4 dir monitors will be required to monitor abrasive blasting operations at this site. See special provision for Containment and Disposal of Lead Paint Cleaning Residues.

Calendar date painting restrictions will be walved for this project. See Special Provisions.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures. For defined limits of the required painting, see Sheet S88 of S138. Any interior surfaces or bearings to be pointed shall be cleaned per Near White Blast Cleaning SSPC-SP10. Any exterior surfaces requiring pointing, including the Inside and outside of noted bottom truss chords, shall be cleaned per Commercial Grade Power Tool Cleaning SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 OZ/E/U. The Contractor shall match the color of the final finish coal for all steel surfaces to the existing paint color on the structure.

Cleaning and painting of existing structural steal in the areas of structural repairs or new structural installations shall be as specified in the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures.

The Organic Zinc Rich Primer/Epoxy/Urethane Paint System shall be used for pointing of new structural step except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The Contractor shall match the color of the final finish coaf for all interior steel surfaces to the existing paint color on the structure. The Contractor shall match the color of the final finish coaf for the exterior and bottom flange of the fascia beams to the existing paint color on the structure,

LEGEND

- Field drill holes
- Shop or field drill holes
- # Existing hales to remain
- 1.F. Inside Face
- F.F. Front Face

CONSTRUCTION SEQUENCE

Contractor shall sequence construction in order to complete work in accordance with the required completion date. See Completion Date special provision.

Contractor is required to provide Structural Assessment Reports for proposed work. See special provisions.

The Contractor shall retain the services of an engineering firm, prequalified in the IDOT consultant selection category of Highway Bridges (Complex), for the preparation of the Structural Assessment Report(s). Contractor's pre-approval shall not be applicable for this project. See Special Provision.

Current Ratings on File for Existing Structure Inventory: HS 8.8 Operating: HS 14.8 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 equipment.

The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the special provisions.

Grid deck removal and replacement shall be sequenced in order to maintain the structural integrity of the bridge.

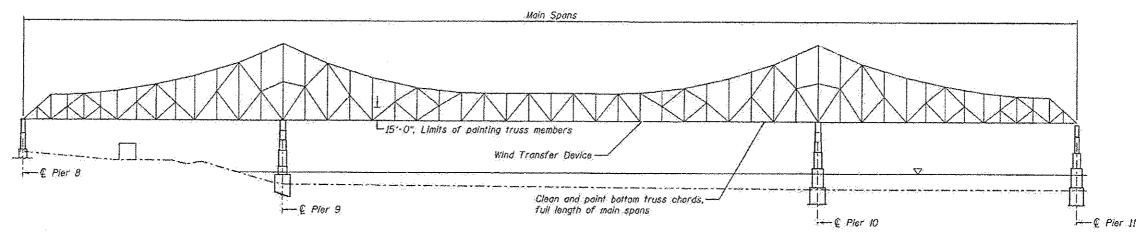
COORDINATION

See special provisions for United States Coast Guard (U.S.C.G.) requirements.
U.S.C.G. Contact.
Mr. Peter J. Sambor, M.P.A.
U.S.C.G. Bridge Management Specialist
Coast Guard 8" District
1222 Spruce Street, Suite 2.107F
St. Louis, Missouri 63103
Phone: (314) 269-2380
U.S.C.G. 24-hour watch center (314) 269-2332

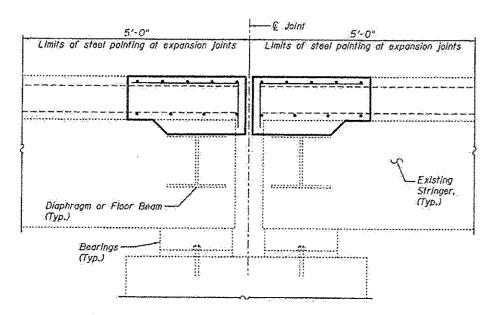
See special provisions for Terminal Railroad Association of St. Louis (T.R.R.A.) requirements. T.R.R.A. Contact.
Mr. Asim Raza
T.R.R.A. of St. Louis
415 South 18' Street, Suite 200
St. Louis, Missouri 63103
Phone: (314) 241-4729



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MAIN SPAN ELEVATION



Clean and point bottom chord
gusset plates, full length of
deck truss spans

© Pier 13

DECK TRUSS ELEVATION

CROSS SECTION AT TYPICAL EXPANSION JOINT

(Joint at diaphragm shown, Joint at floorbeam similar)

Notes:

All steel members that are to remain underneath the deck shall be cleaned and pointed within 5 ft from any deck joint throughout the entire structure length (including deck relief foints throughout the main spans). This includes all beams, bearings, and other structural steel within 5 ft (measured along the beam) of either side of the joint. In terms of cleaning, the exterior girders, exterior stringers, and floorbeams are considered exterior surfaces.

The entire wind transfer device on the main spans, between PP 21' and PP 23', shall be cleaned and painted including all attachments to other members. See existing 1987 rehabilitation plans for details.

Clean and paint the battom truss chard and splash zone on each side of the main spans. This shall include all surfaces of each member including inside the bottom chard box member. All truss members shall be painted up to the height of 15 ft from the bottom of the bottom truss chard on each side of the deck. The floorbeam end connections to the bottom chard, the end 5 ft of each floorbeam, the exferior stringer connections to the floorbeams, and the end 5 ft of each exterior stringer shall also be cleaned and painted. In terms of cleaning, the members within the splash zone are considered exterior surfaces.

Clean and paint all bottom chard gusset plates throughout the limits of the dock truss spans. All members connected by the gusset plates shall be painted to a distance 1 ft beyond the limits of the gusset plates. In terms of cleaning, the bottom chard gusset plates and connected members to be painted on the dock truss are considered exterior surfaces.

Clean and paint the end 8 ft of Stringer Lon Span 19 at Bent 18. In terms of cleaning, this exterior stringer is an exterior surface.

The Contractor shall match the color of the final finish cost for all steel surfaces to the existing point color on the structure.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project as specified in the 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. See sheet S3 of S138 for cleaning requirements.

of \$138 for cleaning requirements.

Complete cost of painting the locations described on this sheet shall be considered included with the pay item Cleaning and Painting Steel Bridge No. 1.

Cleaning of existing structural steel in the areas of structural repairs or new structural installations shall be as specified in the special provision for Cleaning and

Painting Contact Surface Areas of Existing Steel Structures.

Calendar date painting restrictions will be waived for this project. See special provisions.

Complete cost of painting repair areas shown throughout the plans shall be considered included with the pay item Structural Steel Repair.

The removal and disposal of the existing lead point shall be considered included with the pay item Containment and Disposal of Lead Paint Cleaning Residues No. 1.

TYPICAL DECK TRUSS GUSSET PLATE

1'-0"

BILL OF MATERIAL

11em	Unit	Total
Cleaning and Painting Steel Bridge No. 1	L Sum	4
Containment and Disposal of Lead Point Cleaning Residues No. 1	L Súm	1



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PAINTING							
Ņ.	. 082-6001 MLK BRIDGE OVER MISSISSIPPI RIVER						
	SHEET NO. SORR OF S138 SHEETS						

RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
799	18R, DRS-2	ST. CLAIR	156	106		
		CONTRACT	NO. 7	6803		
ILLINOIS FED. ATO PROJECT						

1'-0"