

GENERAL NOTES

LOCATION SKETCH

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 34 " in. ϕ , holes 13 6" in. ϕ , unless otherwise noted.

All new fasteners shall be high strength bolts. Holes shall be subpunched or subdrilled $^{\parallel}_{16}$ " dia. and reamed in the field to $^{13}_{16}$ " dia. for $^{3}_{4}$ " dia. bolts, unless otherwise noted. Holes shall be subpunched or subdrilled $^{13}_{16}$ " dia. and reamed in the field to $^{15}_{16}$ " dia. for $^{7}_{8}$ " dia. bolts, unless otherwise noted.

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

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".

All new structural steel shall be shop painted with inorganic zinc rich primer per AASHTO M300, Type I.

The Contractor shall take precautions to safeguard the existing water main from additional truss deflections during the installation of the new force main. A detailed procedure of installation shall be submitted to the Engineer for approval prior to construction.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	
Furnishing and Erecting Structural Steel	Pounds	5,910	

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interim Revisions 2009 LRFD Guide Specifications for the Design of Pedestrian Bridges 2002 AASHTO Standard Specifications for Highway Bridges and

FHWA Seismic Retrofitting Manual for Highway Bridges 1995 for Seismic Design Criteria only.

<u>DESIGN STRESSES</u> <u>EXISTING CONSTRUCTION</u>

fc' = 3,500 psi

fy = 60,000 psi (Reinforcement) fy = 36,000 (M270 Grade 36) NEW CONSTRUCTION

fy = 36,000 psi (M270 Grade 36)

SEISMIC DATA

Seismic Performance Category (SPC) = A Horizontal Bedrock Acceleration Coefficient = 0.085 Site Coefficient (S) = 2.0

<u>GENERAL PLAN & ELEVATION</u> <u>PIPE BRIDGE OVER ST. CLAIR AVE.</u> MADISON COUNTY

USER NAME = seb	DESIGNED - RGB	REVISED -			PIPE RRINGE PLAN & NETALLS	F.A.I.	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN - AJF	REVISED -				64	82-4T-1	ST. CLAIR	185	51
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