



projects\dab00036\0790013.dgn 4/27/2006 1:31:59 PM

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
IL 154		RANDOLPH		5	2
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AD PROJECT-		

SHEET NO. 1 4 SHEETS

Contract Number: 76A16

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts ${^7\!}_8{''}\phi,$ open holes ${^{l5}\!}_{l6}{''}\phi,$ unless otherwise noted.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project. All new structural steel shall be shop painted with the inorganic Zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair. Surfaces of existing steel exposed down to bare metal as a result of the stiffener modification work shall be spot cleaned and painted with an aluminum epoxy mastic according to Article 506.05. The cost of this work shall be included with Stiffener Intersection Modification.

Cost of removal and/or re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included in the cost of Structural Steel Repair. Cost of temporarily supporting the lateral bracing is included with Structural Steel Repair. 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 Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". The Contractor shall grind all cracked welds parallel to the direction of the existing weld and not perpendicular to the weld.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stiffener Intersection Modification	Each	200
Structural Steel Repair	Pound	3290
· ·		
· · · · · · · · · · · · · · · · · · ·		

PLAN & ELEVATION FAP RT. 329 (IL 154) OVER THE KASKASKIA RIVER RANDOLPH COUNTY SN 079-0013

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



DESIGNED	SJB	APRIL 27, 2006
CHECKED	ATH	EXAMINED John a. Morris
DRAWN	baliva	PASSED Ralph E. anderson
CHECKED	SJB ATH	ENGINEER OF BRIDGES AND STRUCTURES



Procedure for Lateral Bracing Retrofit Detail: (Cost included with Structural Steel Repair) Remove existing $\frac{3}{8}$ " connecting plate. The minimum distance from cut to face of web shall be the larger of l_{4} " or web to plate weld size, with removal of remaining material by grinding as described below. The cut shall be made parallel to the web without angling the cut towards the web. Equipment and method of cutting shall be approved by the Engineer. Any method of removal to be used shall ensure that no damage is done to the existing web, vertical stiffener or welds connecting these elements. Cutting shall be done in a manner such that the paint on the opposite face of the web is not damaged. If damage occurs, the damaged area shall be repainted at the contractor's expense and procedures shall be modified to prevent damage at subsequent removal locations.

2. Remove material between cut and web by grinding and grind smooth at web surface. Web plate surfaces shall have a roughness average (Ra) of 250µ in. or less. Grinding equipment shall be approved by the Engineer. The grinding operation should not gouge the girder web plate.

3. The web surface at the modification shall be inspected using dye penetrant or magnetic particle (MT) methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

REPAIR A THRU A9 EXISTING CONNECTION PLATE REMOVAL

(See table for no. req'd.)

Notes:

EPAIR

A

A1

A2

A3

A4

A5

A6

A7

A8

A9

N

45₈'

41316

4%

5''

3'

434''

4'2"

4716

43,8'

NO. REQ'L

5

21

3

1

Work at adjacent connection locations shall not be performed concurrently.

At each location, the 2 lateral bracing members shall be removed and stored to allow removal of the connection plate and shall be re-installed after erection of the new brackets. Cost shall be included with Structural Steel Repair.



ROUTE NO.	SECTION	COUNTY		SHEETS	SHIRE T NO.	SHEET NO. 2
IL 154		RANDOLPH		5	3	4 SHEETS
FED. ROAD DIST. ND. 7 R.LINOIS		R_LIN015	FED. AID PROJECT-			

Contract Number: 76A16

REPAIR DETAILS FAP RT. 329 (IL 154) OVER THE KASKASKIA RIVER RANDOLPH COUNTY SN 079-0013





SIMD/REPS 04-26-2004