

76894

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1-7	MADISON	4	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**
FAI ROUTE 270 (I-270)
SECTION 60B-1-7
HOAN DETAIL RETROFIT
MADISON COUNTY
C-98-053-05

INDEX OF SHEETS

- COVER SHEET, INDEX OF SHEETS, SUMMARY OF QUANTITIES
- GENERAL PLAN AND ELEVATION
- 3 - 4. STEEL REPAIR DETAILS

STANDARDS

- 701006-02
- 701400-02
- 701406-04
- 702001-05
- 701411-03

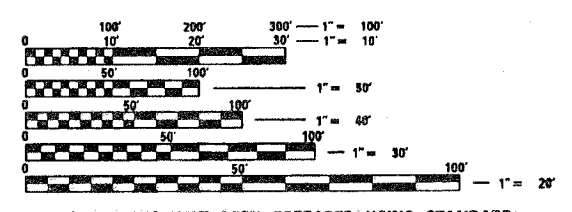
SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QTY
67100100	MOBILIZATION	L SUM	1
70100305	TRAFFIC CONTROL AND PROTECTION, STANDARD 701400	L SUM	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
X0322556	STIFFENER INTERSECTION MODIFICATION	EACH	25

50% STATE
50% MISSOURI
URBAN
SFTY-2A

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179
SQUAD LEADER: ARTHUR MUEHLFELD (618) 346-3209

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS

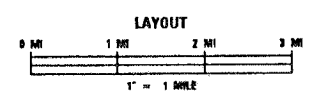
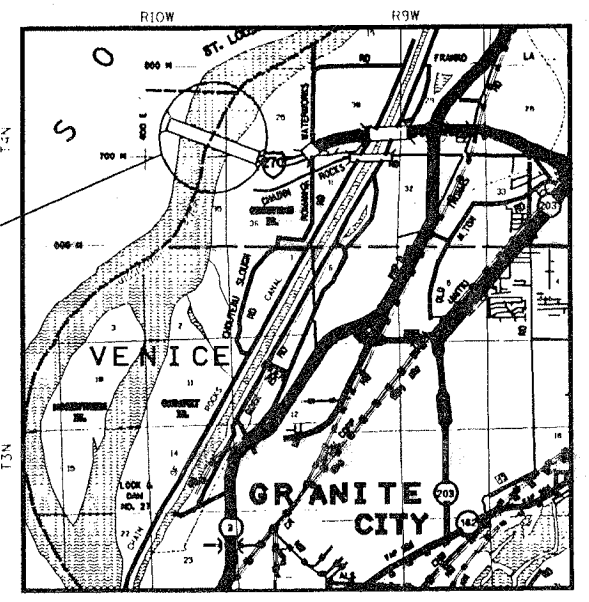


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 76894

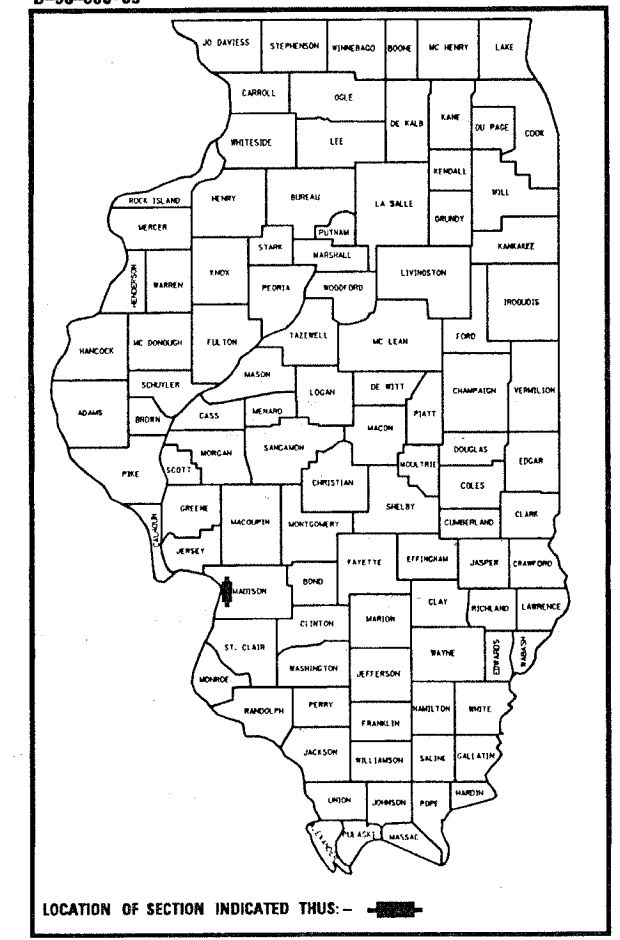
PROJECT LOCATION



TRAFFIC DATA
ADT (04): 58500
ADT (05): 59000
SU: 3.2%
MU: 17.8%

LATITUDE: 38.76476 LONGITUDE: -90.17225

D-98-033-05



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 28, 20 05
Mark C. Hamis
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

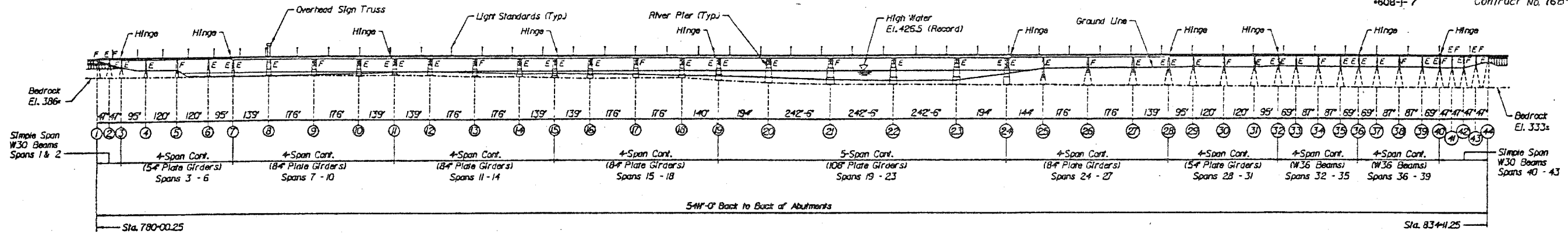
May 13, 20 05
Mike Hene
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 20 05
Victor Moders
DIRECTOR, DIVISION OF HIGHWAYS

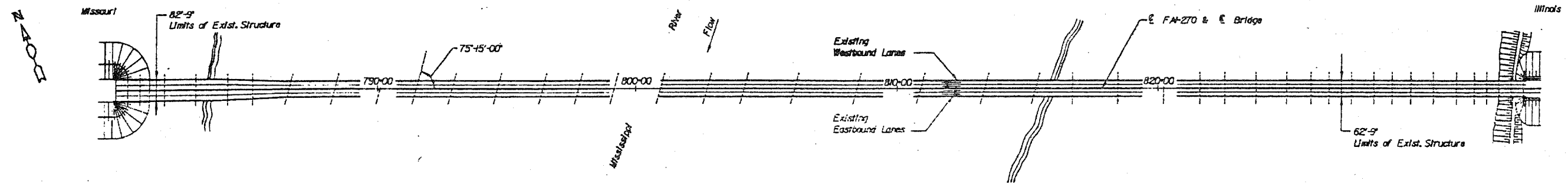
**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-270		MADISON	4	2
STA.		TO STA.		
F.A.R.A. REGION		LLINDS	PROJECT	
*608-I-7		Contract No. 76894		

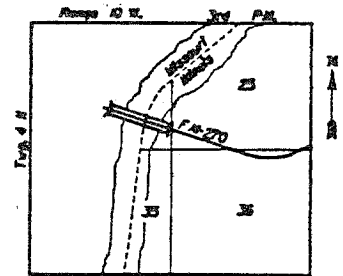
Benchmark:
12A cut on east curb of Riverview Drive, Sta. 15+95, Elev. 440.66.



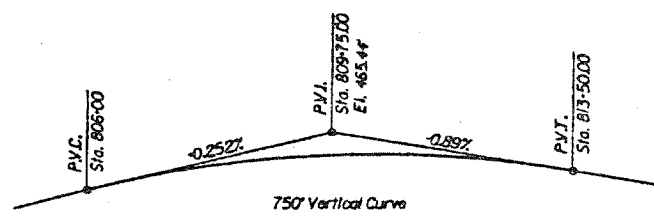
ELEVATION OF EXISTING BRIDGE



PLAN OF EXISTING BRIDGE



LOCATION SKETCH



EXISTING PROFILE GRADE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN AND ELEVATION
 FAI-270 OVER THE MISSISSIPPI RIVER
 SECTION 608-I-7
 MADISON COUNTY
 STRUCTURE NUMBER 060-0035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

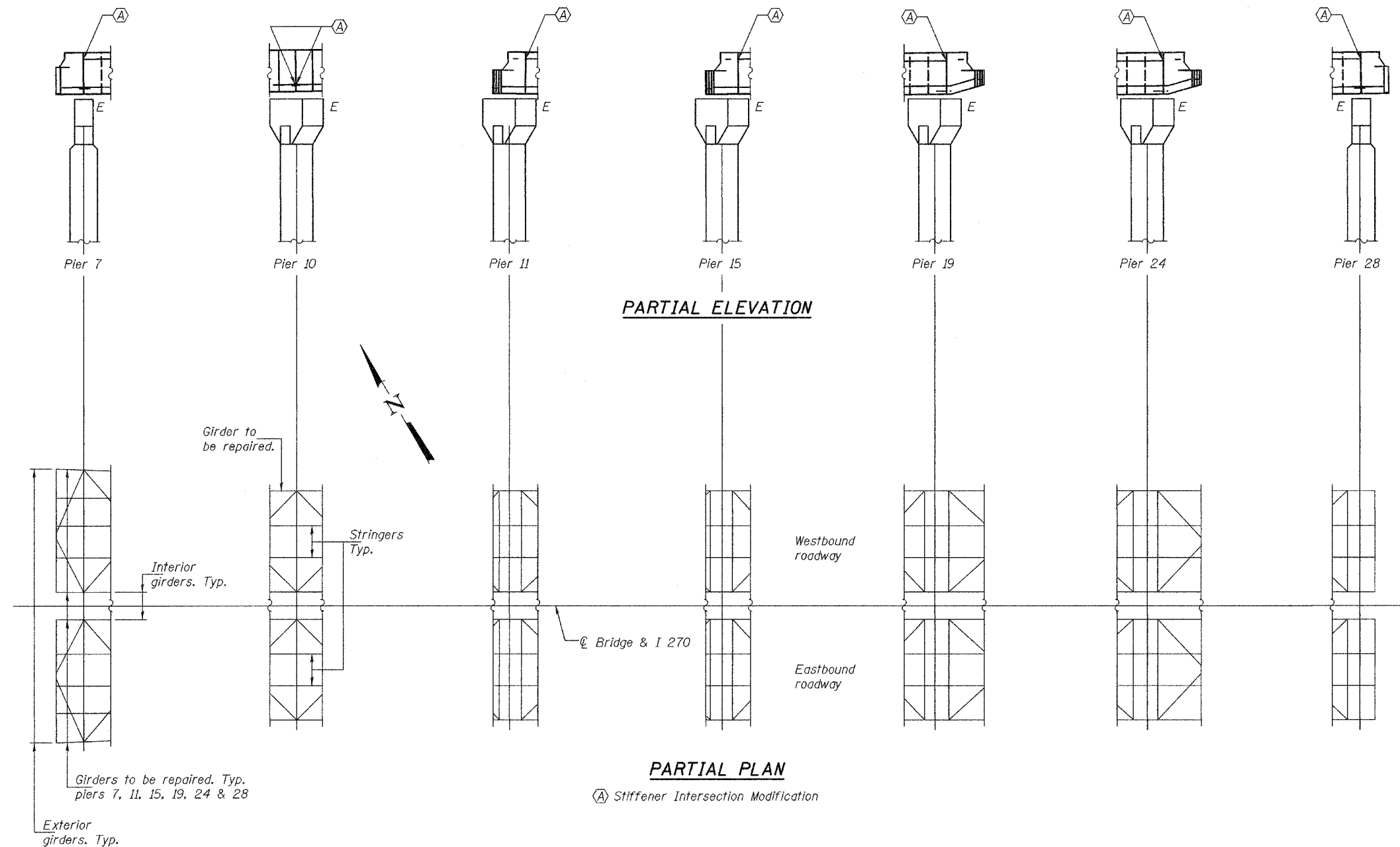
ROUTE NO.	SECTION	COUNTY	DIST. NO.	SHEET NO.	SHEET NO. 1
FAI 270		MADISON	4	3	2 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 76894

GENERAL NOTES

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. 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.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stiffener Intersection Modification	Each	26

DESIGNED	Alvin T. Hallaway
CHECKED	Victor H. Veliz
DRAWN	ballva
CHECKED	A.T.H. VHV

EXAMINED	John A. Morris	May 3, 2005
PASSED	Ralph E. Anderson	



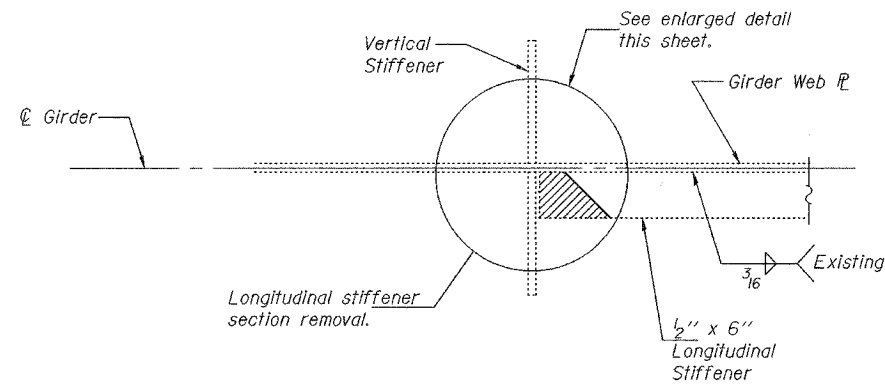
EXPIRES 11-30-2006

STEEL REPAIR DETAILS
FAI ROUTE 270
MADISON COUNTY
STR. No. 060-0035 (WB)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

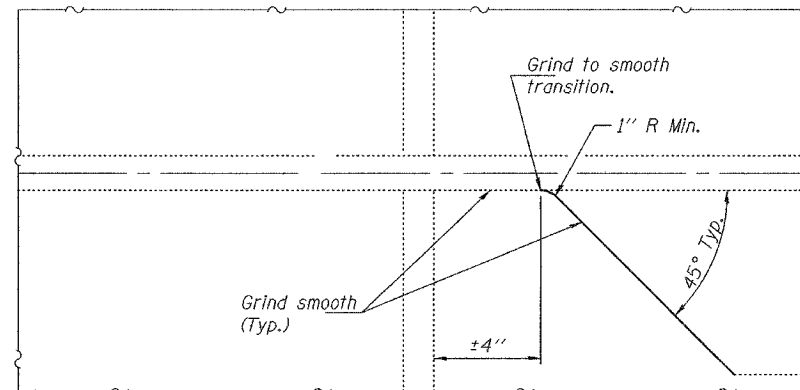
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 2 SHEETS
FAI 270		MADISON	4	4	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 7689A



REPAIR DETAIL

Hatched area indicates section removal.
(Typ. at piers 7, 10, 11, 15, 19, 24 & 28,
26 Locations.)



Procedure for Repair Detail

1. Cut existing longitudinal stiffener $\pm 4''$ from face of vertical stiffener and along web as shown, with a 1" R (Min) at Web. The minimum distance from cut to face of web shall be the larger of $\frac{1}{4}''$ or stiffener to web weld size with removal of remaining material by grinding as described below. The cut shall be made vertically through the stiffener 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.
3. Remove all burrs from cut end of stiffener. Cut surface shall be ground smooth and shall have an Ra of 500μ in. or less.
4. The web surface at the modification shall be inspected using dye penetrant or magnetic particle methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

Each 4" stiffener removal area is to be considered as one retrofit. Accepted above referenced work will be paid for at the contract unit price each for Stiffener Intersection Modification, which price shall include all materials, equipment, labor, cleaning and painting.

Note:
Cost of grinding and testing shall be included with Stiffener Intersection Modification.

DESIGNED	ATH
CHECKED	VHV
DRAWN	baliva
CHECKED	ATH VHV

MAY 3, 2005
EXAMINED *John A. Morris*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SIMD/REPS 04-26-2004

STEEL REPAIR DETAILS
FAI ROUTE 270
MADISON COUNTY
STR. No. 060-0035 (WB)