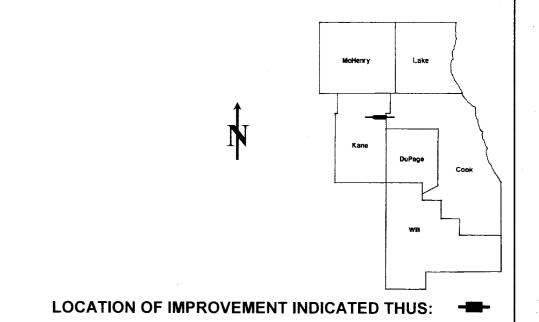
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	DISTRICT ONE BUREAU

			TOTAL	SHEET
FA ROUTE	SECTION	COUNTY	SHEETS	NUMBER
	2009-DL	KANE	5	1

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT ONE

PROPOSED HIGHWAY PLANS

US 20
OVER ST CHARLES ST
SECTION 2009-DL
SN 045-0006
MCHD #679228
STEEL REPAIR
KANE COUNTY

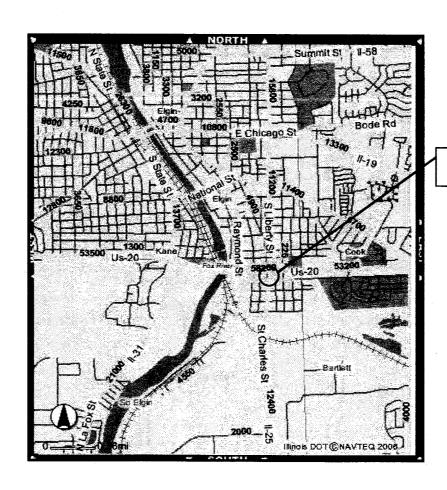


TRAFFIC DATA

US20 ADT = 58,200 US 20 POSTED SPEED LIMIT = 55 MPH

FOR INDEX OF SHEETS SEE SHEET 2

ST CHARLES ST POSTED SPEED = 35 MPH



Location of Work

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

DAY LABOR NO.

-			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
	2008-DL	KANE	ৰ্চ	2

SUMMARY OF QUANTITIES

DESCRIPTION	UNIT	TOTAL QUANTITY
BEAM STRAIGHTENING	L SUM	1
STRUCTURAL STEEL REPAIR	POUND	740
TRAFFIC CONTROL & PROTECTION STD 701501	L. SUM	1
	l	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS AND STATE STANDARDS
3-6	REPAIR PLANS
7	STD 701501

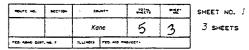
STATE STANDARDS

701501 URBAN LANE CLOSURE 2L 2W UNDIVIDED

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS STATE STANDARDS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



3 SHEETS

GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts ${}^78{}''\phi$, open holes ${}^{15}_{15}{}''\phi$, unless otherwise noted.

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Cost included with Beam Straightening. Any cracks that cannot be removed by grinding approximately '4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

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.

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.

The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision "Cleaning and Painting New Metal Structures".

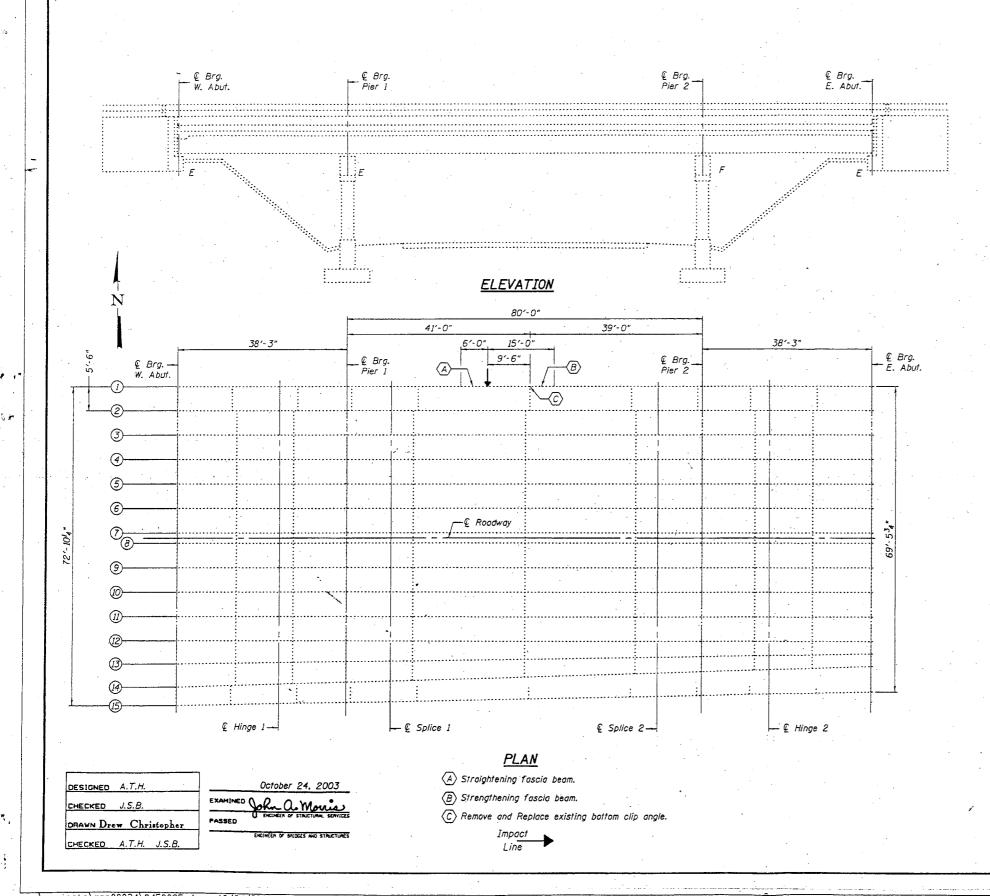
Existing structural steel that will be in contact with new structural steel shall-be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the bottom flange strengthening plates.

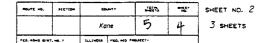
TOTAL BILL OF MATERIAL

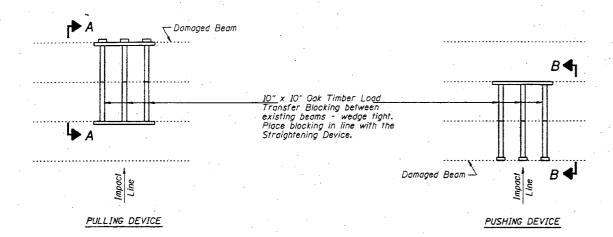
ITEM	UNIT	QUANTITY
Beam Straightening	L.S.	1
Structural Steel Repair	Pound	740

PLAN AND ELEVATION F.A.P. RT. 426 OVER ST. CHARLES STREET KANE COUNTY SN.045-0006



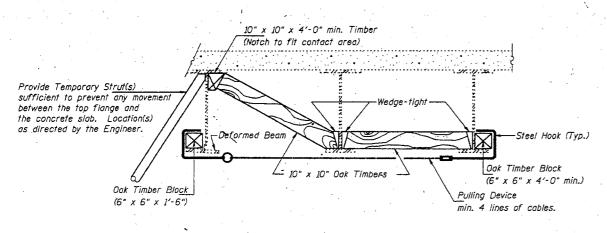
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



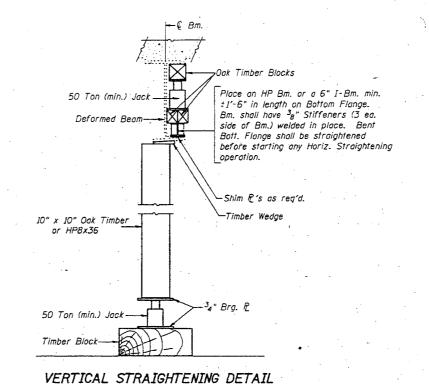


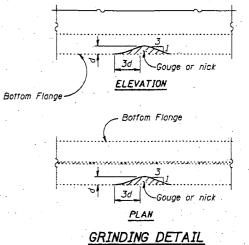
PARTIAL PLANS SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.



SECTION A-A





SECTION B-B

BEAM STRAIGHTENING DETAILS

F.A.P. RT. 426

OVER ST. CHARLES STREET

KANE COUNTY

SN.045-0006

PASSED

October 24, 2003

EXAMINED John a Morris
ENGINEER OF STRUCTURAL SERVICES

DESIGNED A.T.H.

CHECKED J.S.B.

DRAWN Drew Christopher

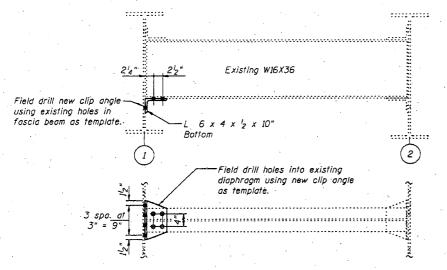
CHECKED A.T.H. J.S.B.

REP-1 1-27-2000

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

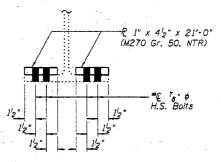
 53.477	-46.57	2-42T
Kane	5	5

SHEET NO. 3



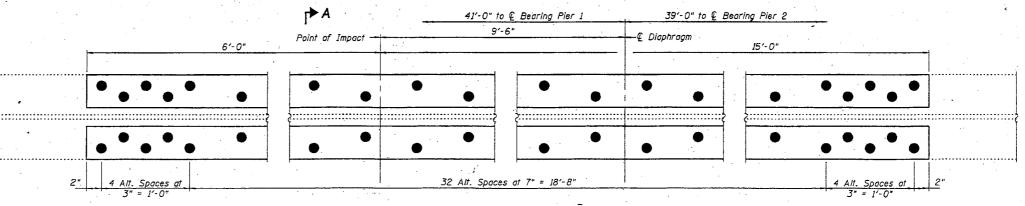
CLIP ANGLE REPLACEMENT DETAIL

Notes: Diaphragm connection holes shall be $^{15}_{16}$ " ϕ for $^{3}_{4}$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.



SECTION A-A

*Field drill 15 ₁₆ " ϕ holes in beam using P_c as template after straightening beam.



<u>BEAM 1 PLAN</u> BEAM STRENGTHENING DETAIL

DESIGNED A.T.H.

CHECKED J.S.B.

DRAWN Drew Christopher

CHECKED A.T.H. J.S.B.

BEAM REPAIR DETAILS

F.A.P. RT. 426

OVER ST. CHARLES STREET

KANE COUNTY

SN.045-0006

