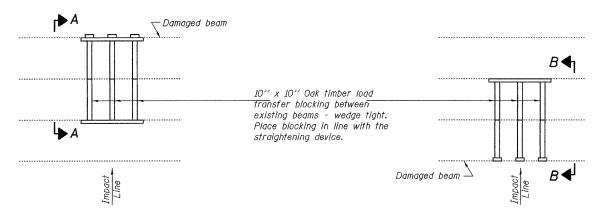
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



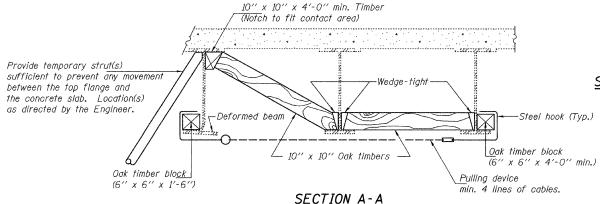
PULLING DEVICE

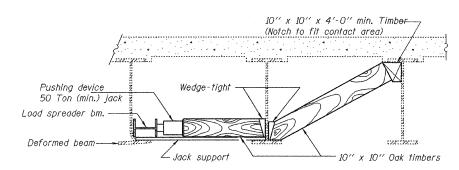
PARTIAL PLANS

SUGGESTED BEAM STRAIGHTENING METHODS

PUSHING DEVICE

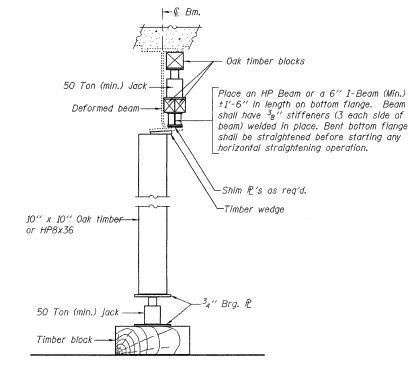
Straightening force shall be maintained on all load transfer blocking during beam straightening.





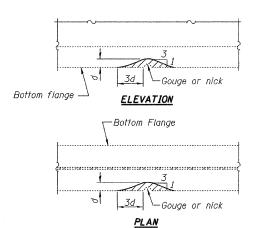
SECTION B-B

		7
DESIGNED	ATH	<u>AUGUST 11, 2008</u>
CHECKED	AJB	EXAMINED & Carl Prayry
DRAWN	Kyle M. Steffen	PASSED Ralph E. Curlesa
CHECKED	ATH AJB	ENGINEER OF BRIDGES AND STRUCTURES



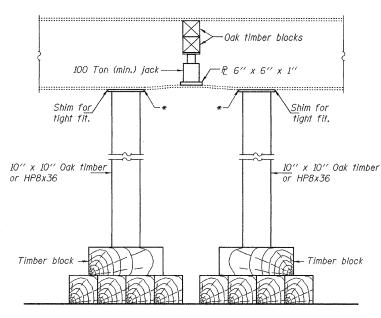
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



GRINDING DETAIL

Grind existing nicks, gauges 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. Any cracks that cannot be removed by grinding approximately ${}^{l}_{4}$ deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



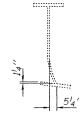
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

* Edge of plate shall line up with edge of deformation.

Note:

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking West)
(Approximate max. deflections)
Deflected length of beam to be
straightened is approximately 74'-7".

BEAM STRAIGHTENING DETAILS US ROUTE 20

SHEET NO.2	F.A. RTE.	SECT	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
	301	(3HB &	3HB-2)M	WINNEBAGO	13	6B
2 SHEETS	SN 101-0056		CONTRACT NO. 64E16			
	FED. ROAD DIST. NO. ILLINOIS FED. AI		PROJECT			

REP-1 1-14-2005

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