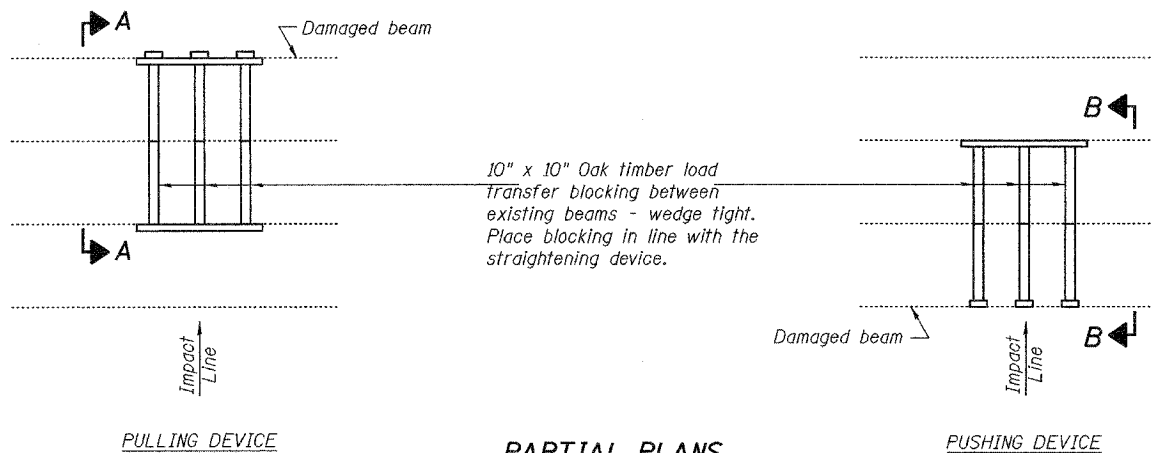


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

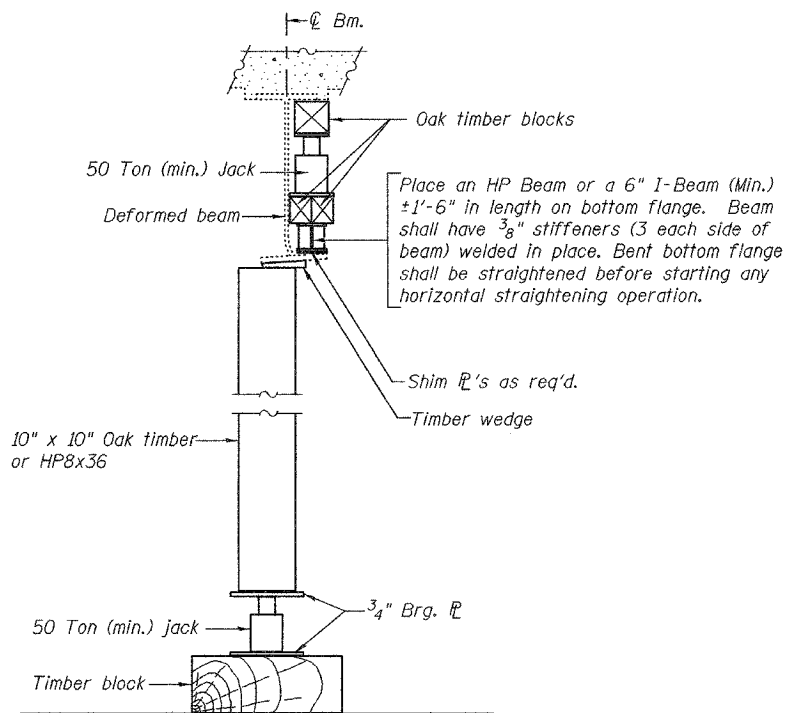
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Cook	10	6
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

SHEET NO. 2
5 SHEETS
Contract Number: 62957

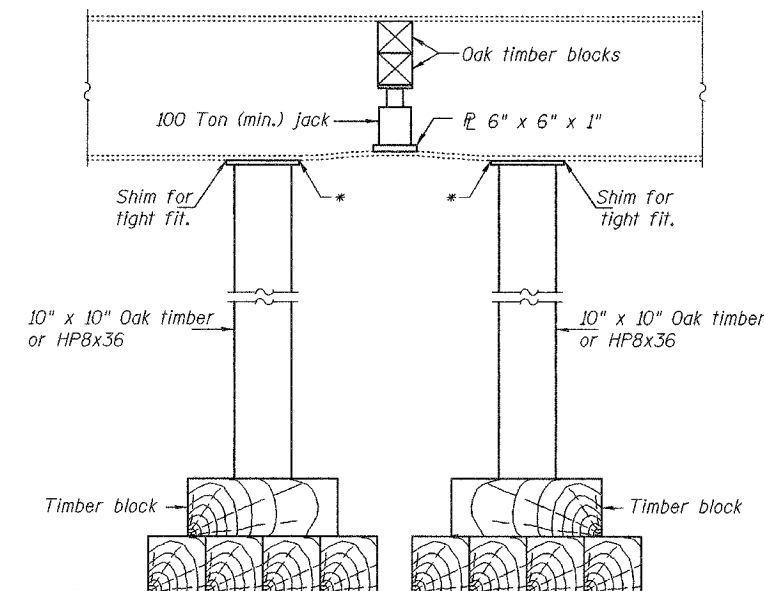


PARTIAL PLANS
SUGGESTED BEAM STRAIGHTENING METHODS

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



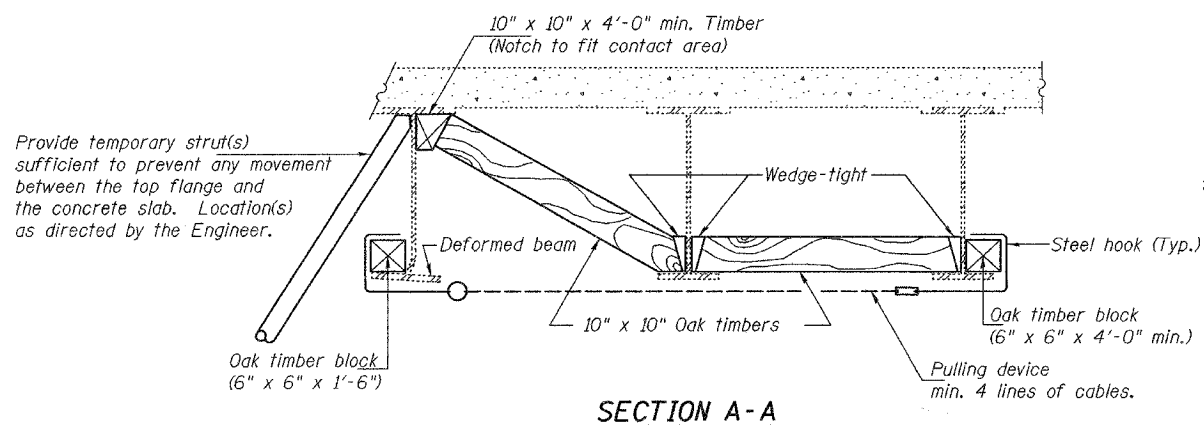
SUGGESTED VERTICAL STRAIGHTENING DETAIL
(To correct localized vertical flange deformations.)



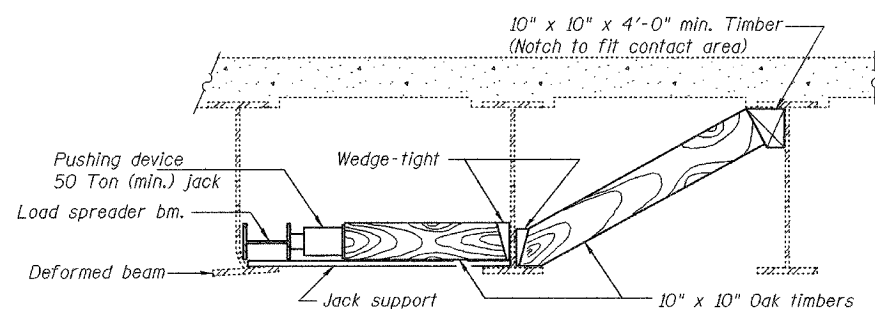
SUGGESTED VERTICAL STRAIGHTENING DETAIL
(To correct localized vertical flange deformations.)

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

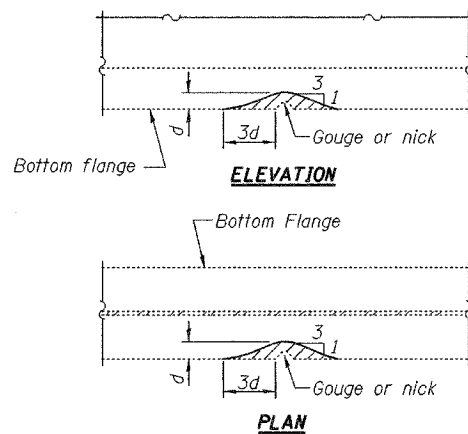
Note:
Braces and jack assembly shall be placed on same side of web.
Bent bottom flange shall be straightened before starting any horizontal straightening operations.



SECTION A-A

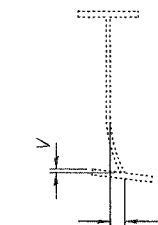


SECTION B-B



GRINDING DETAIL

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. Any cracks that cannot be removed by grinding approximately 1/4" 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.



EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking West)
(Approximate max. deflections)
Deflected length of beam to be straightened is approximately "L".

DEFORMATION TABLE

Beam Number	Dimensions		
	V	H	L
1	1"	2 3/4"	28'-0"
3	2"	1 1/4"	10'-0"
5	1 1/8"	5/8"	4'-0"
8	1 7/8"	5/8"	10'-0"
10	1/4"	3/4"	3'-0"

BEAM STRAIGHTENING DETAILS
CHURCH STREET / I-94
COOK COUNTY
SN 016-0825

DESIGNED	P.S.J.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	P.S.J. / A.T.H.

EXAMINED	November 9, 2005
PASSED	John A. Morris ENGINEER OF STRUCTURAL SERVICES Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES