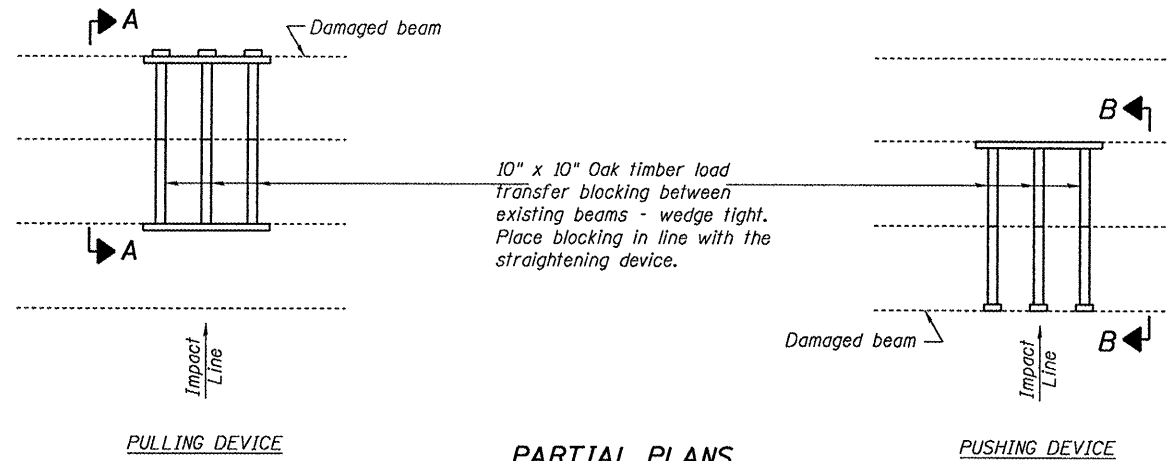


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	++	Woodford	11	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

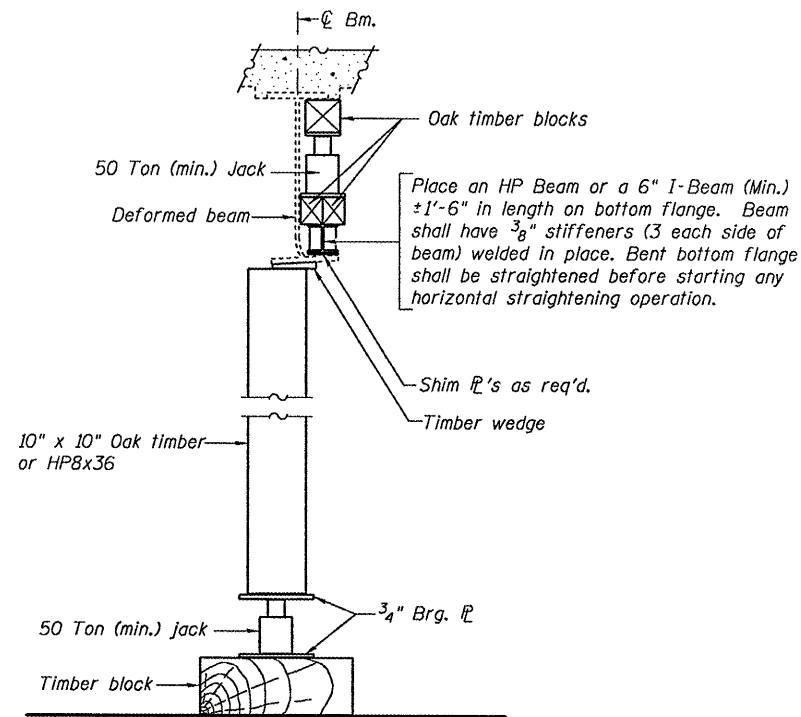
Contract Number: 68854 ++(X3-17-HB)1-2

SHEET NO. 2  
3 SHEETS

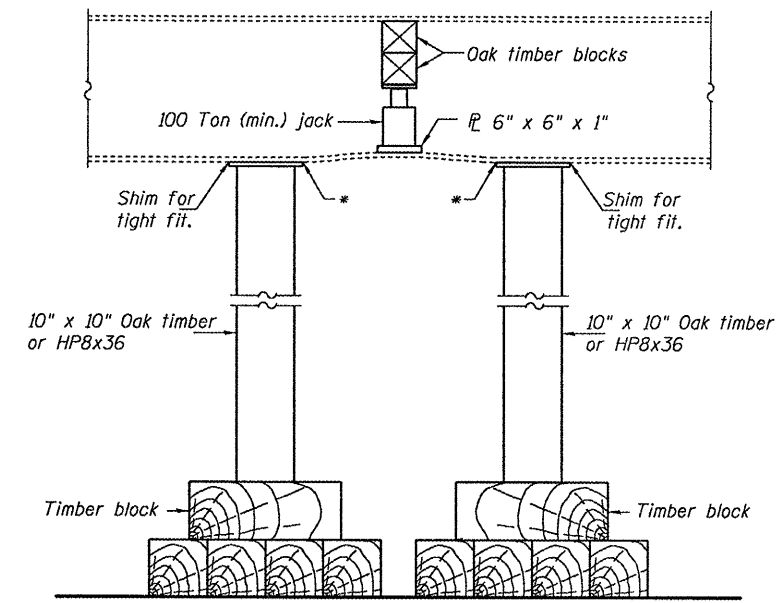


**SUGGESTED BEAM STRAIGHTENING METHODS**

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



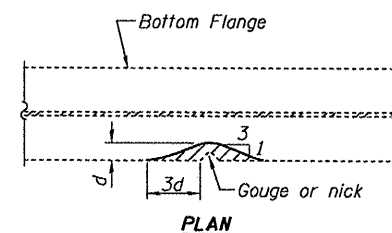
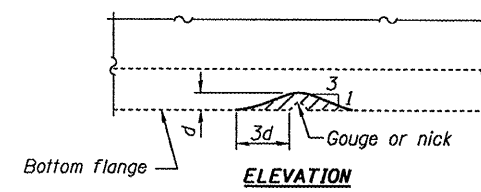
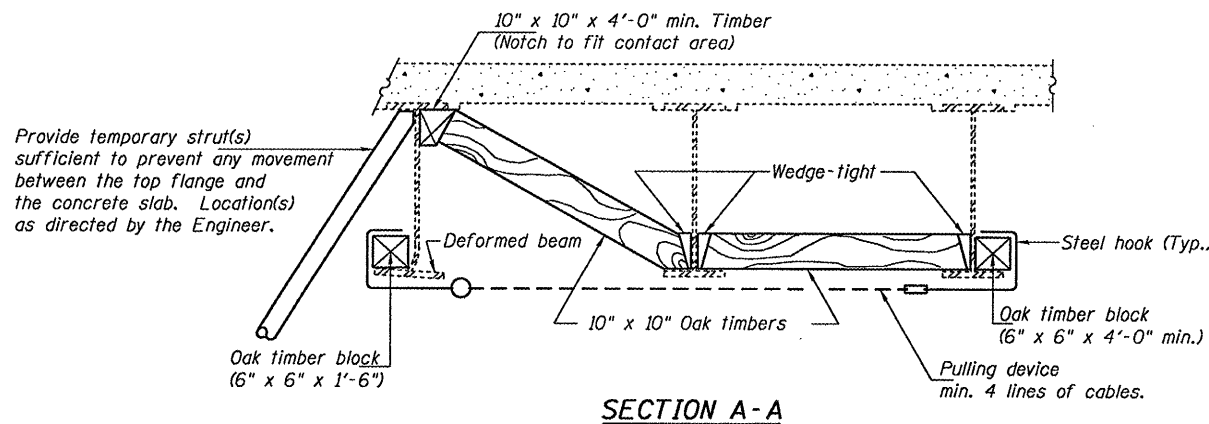
**SUGGESTED VERTICAL STRAIGHTENING DETAIL**  
(To correct localized vertical flange deformations.)



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(To correct localized vertical flange deformations.)

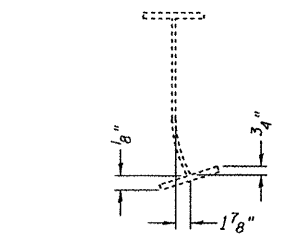
\* Edge of plate shall line up with edge of deformation.

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.



**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.



**BEAM STRAIGHTENING DETAILS**  
F.A.I. RT. 74  
WOODFORD COUNTY  
SN 102-0034

DESIGNED	V.H.V.	EXAMINED	March 9, 2009
CHECKED	D.A.B.	PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	Drew Christopher		
CHECKED	V.H.V. D.A.B.		