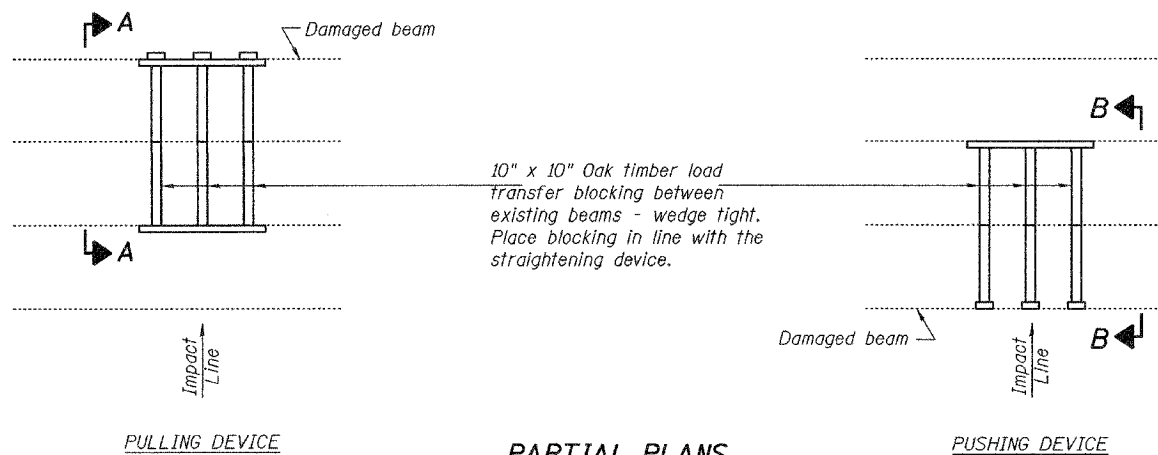


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

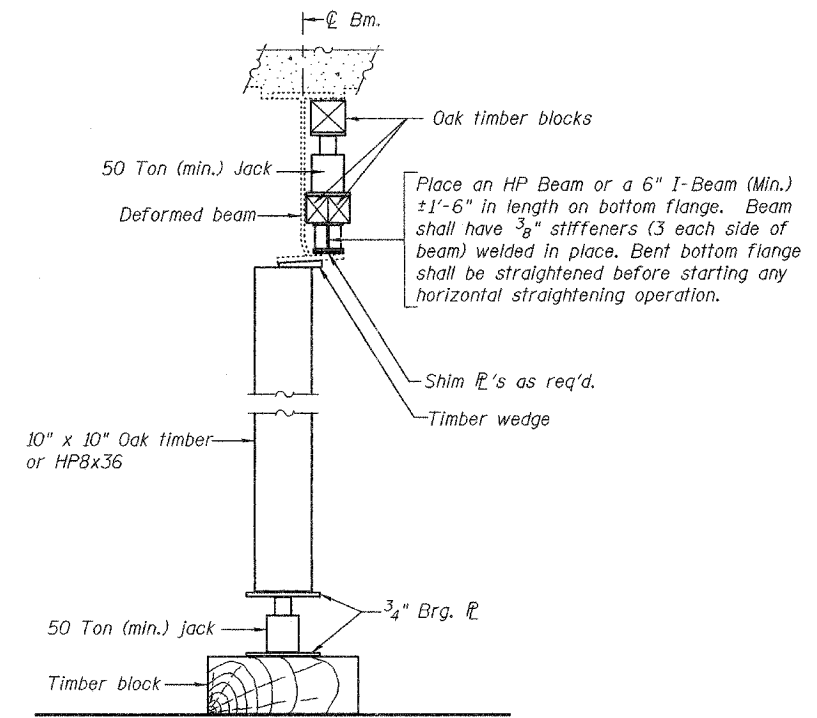
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
		MADISON	//	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2  
5 SHEETS

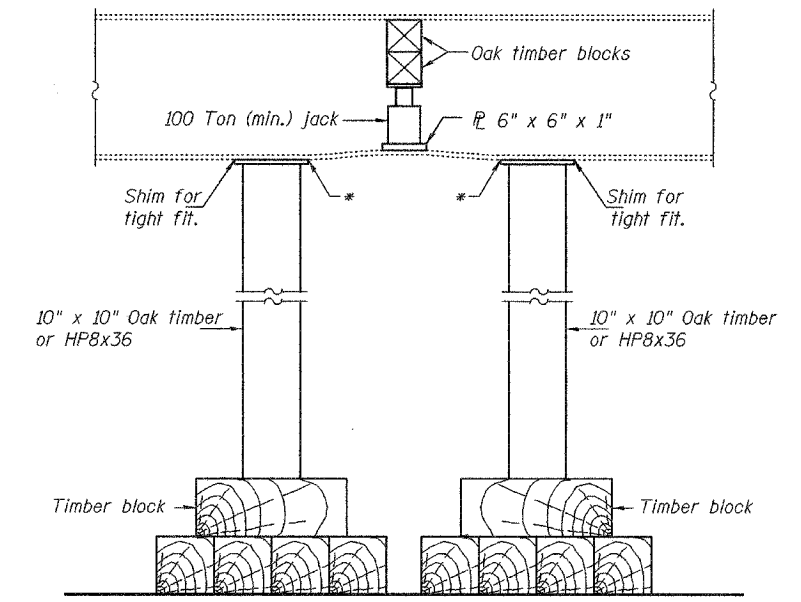
Contract Number: F6968



**PARTIAL PLANS**  
**SUGGESTED BEAM STRAIGHTENING METHODS**  
Straightening force shall be maintained on all load transfer blocking during beam straightening.

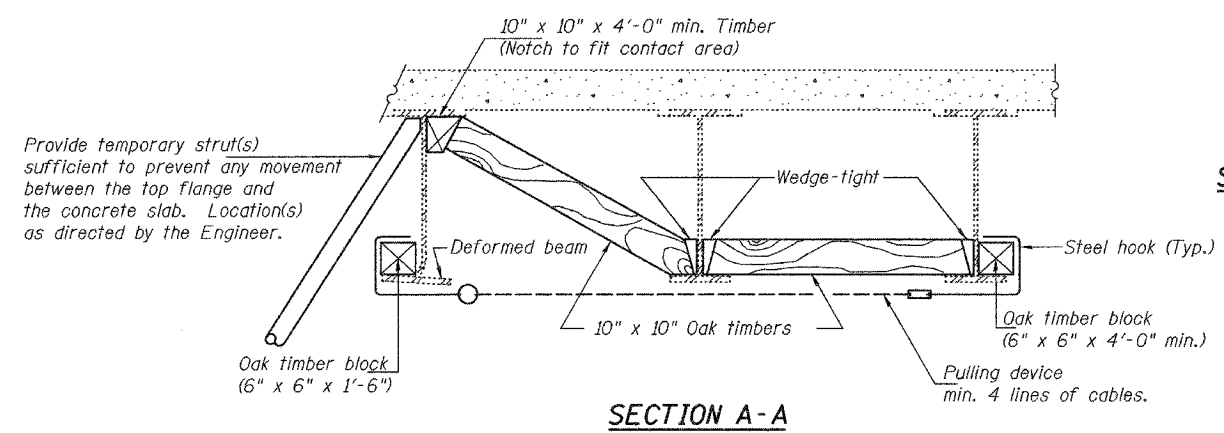


**SUGGESTED VERTICAL STRAIGHTENING DETAIL**  
(To correct flange rotation.)

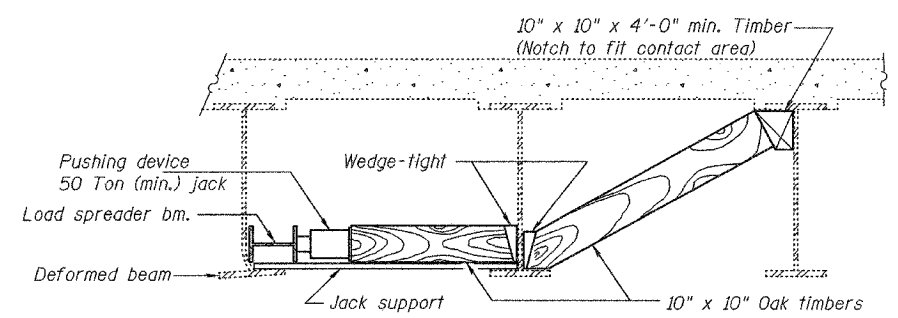


**SUGGESTED VERTICAL STRAIGHTENING DETAIL**  
(To correct localized vertical flange deformations.)

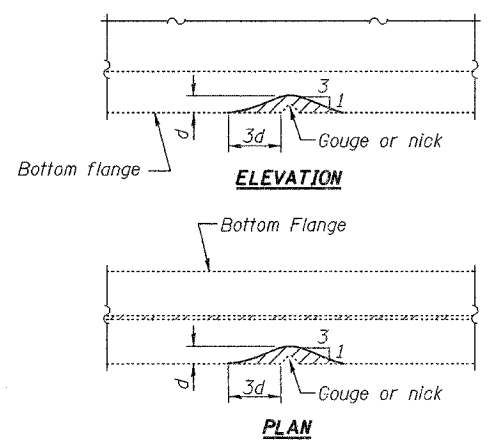
\* Edge of plate shall line up with edge of deformation.  
Note:  
Braces and Jack assembly shall be placed on same side of web.  
Bent bottom flange shall be straightened before starting any horizontal straightening operations.



**SECTION A-A**

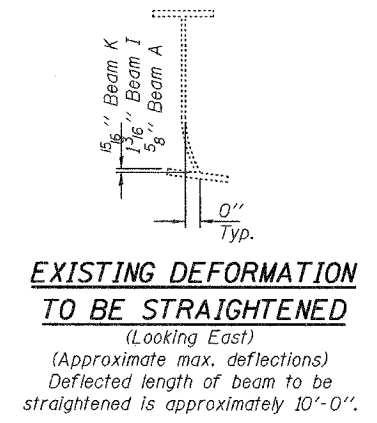


**SECTION B-B**



**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 East)  
(Approximate max. deflections)  
Deflected length of beam to be straightened is approximately 10'-0".

DESIGNED	SJB	SEPTMBER 29, 2005
CHECKED	ATH	EXAMINED
DRAWN	balva	ENGINEER OF STRUCTURAL SERVICES
CHECKED	SJB ATH	PASSED
		ENGINEER OF BRIDGES AND STRUCTURES

**BEAM STRAIGHTENING DETAILS**  
**ILL. RTE 162 OVER FAI RTE. 70**  
**MADISON COUNTY**  
**S.N. 060-0139**