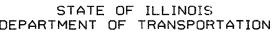
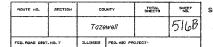
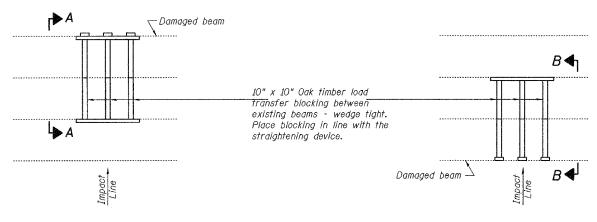
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





Contract Number: ---





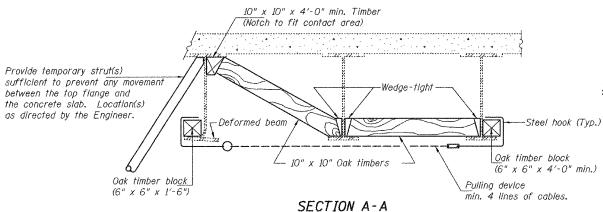
PULLING DEVICE

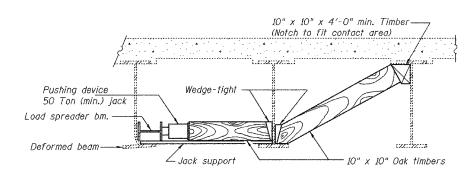
PARTIAL PLANS

PUSHING DEVICE

SUGGESTED BEAM STRAIGHTENING METHODS

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





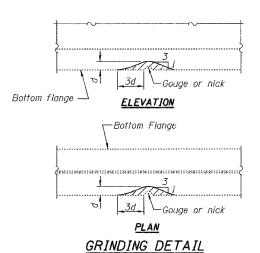
SECTION B-B

DESIGNED V.H.V.	April 28, 2005
CHECKED S.J.B.	EXAMINED John a. Morris
DRAWN Drew Christopher	PASSED Walph E. audersan
CHECKED V.H.V. S.J.B.	ENGINÉER OF BRIDGES AND STRUCTURES

├**-**€ Bm. - Oak timber blocks 50 Ton (min.) Jack -Place an HP Beam or a 6" I-Beam (Min.) $\pm 1'$ -6" in length on bottom flange. Beam Deformed beamshall have 38" stiffeners (3 each side of beam) welded in place. Bent bottom flange shall be straightened before starting any horizontal straightening operation. -Shim Æ's as req'd. └─Timber wedge 10" x 10" Oak timberor HP8x36 ³₄" Brg. ₽ 50 Ton (min.) jack Timber block-

SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



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 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.

-Oak timber blocks 100 Ton (min.) jack-Shim for tight fit. tight fit. 10" x 10" Oak timber 10" x 10" Oak timber or HP8x36 or HP8x36 Timber block - Timber block

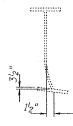
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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 East) (Approximate max. deflections) Deflected length of beam to be straightened is approximately 8'-0".

BEAM STRAIGHTENING DETAILS F.A.I. RT. 74 TAZEWELL COUNTY SN 090-0009

REP-1 1-14-2005