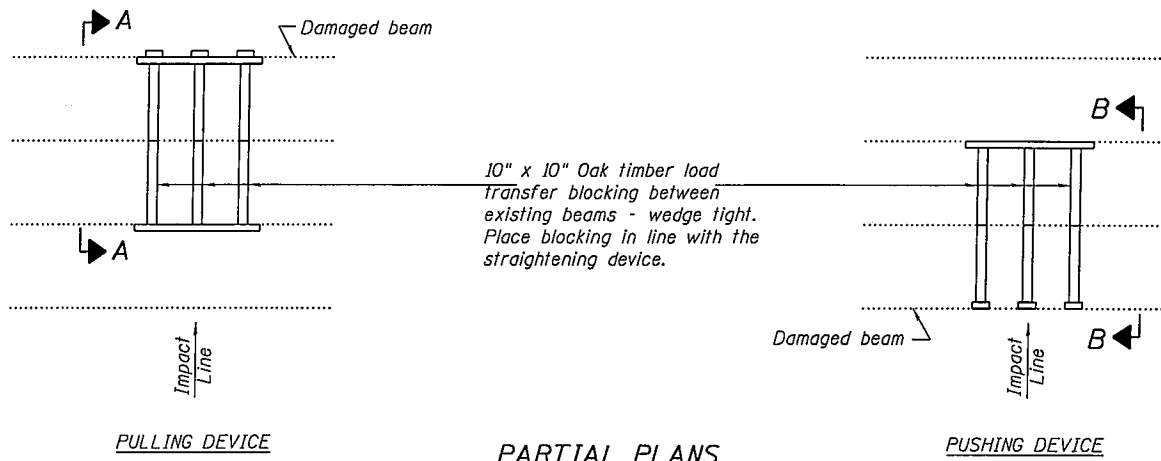
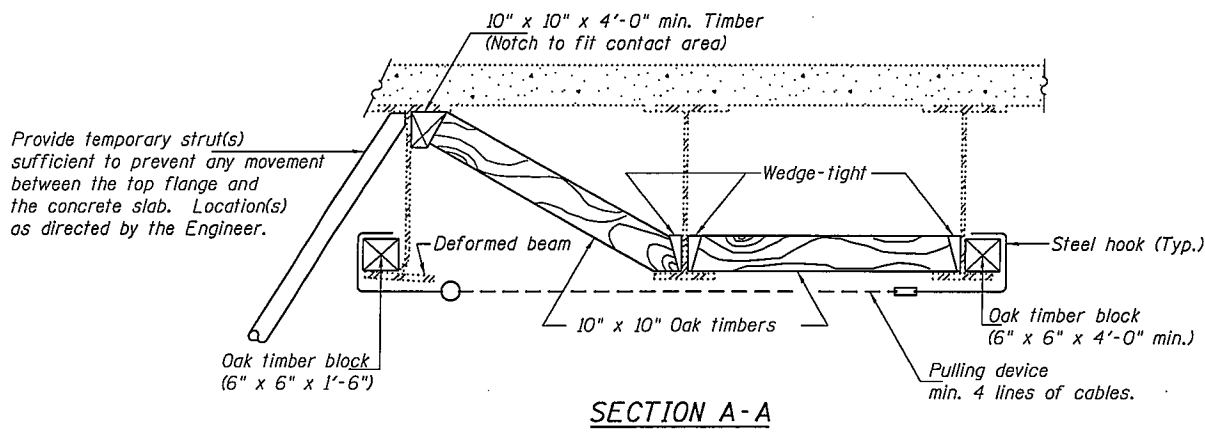


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

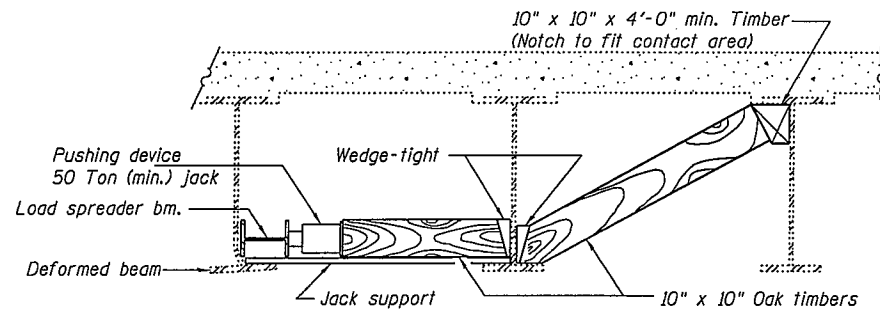


PARTIAL PLANS
SUGGESTED BEAM STRAIGHTENING METHODS

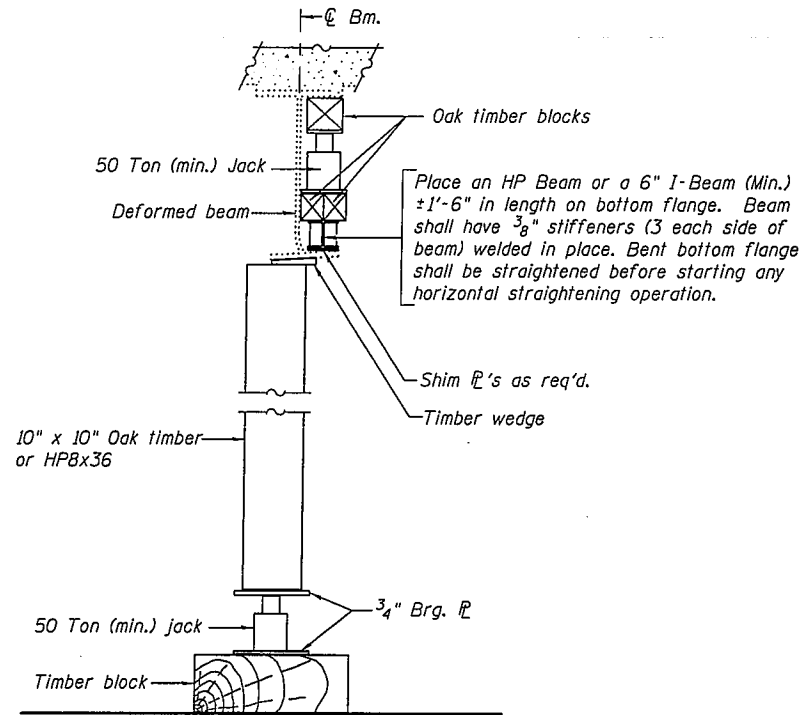
Straightening force shall be maintained on all load transfer blocking during beam straightening.



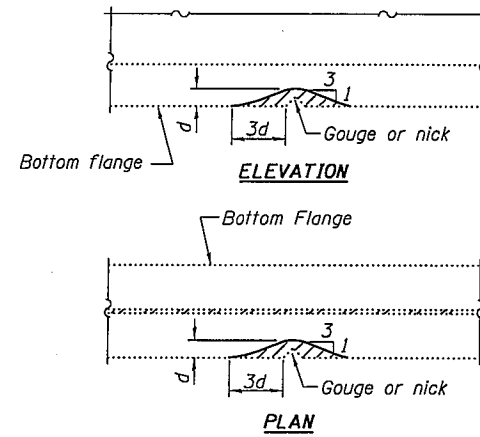
SECTION A-A



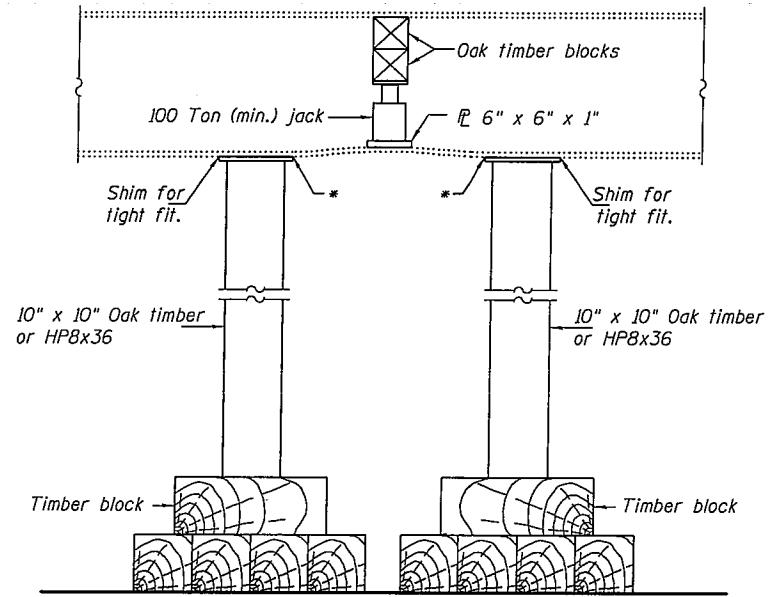
SECTION B-B



SUGGESTED VERTICAL STRAIGHTENING DETAIL
(To correct flange rotation.)



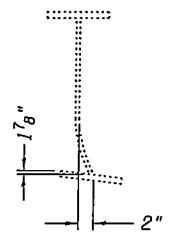
GRINDING DETAIL



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 9'-0" at Beams 1, 3, 5, 11, 12, 14, 15, 16 and 17 and 20'-0" at Beam 19. Additionally vertical deformation on Beam 5 over a length of ±4'-0" to be straightened.

BEAM STRAIGHTENING DETAILS
SN 084-0076 & 0077

DESIGNED	A.J.B.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	A.J.B. A.T.H.

SEPTMBER 16, 2009
EXAMINED <i>Carl Pursey</i> ENGINEER OF STRUCTURAL SERVICES
PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 2 7 SHEETS	F.A. RTE. 72	SECTION (84-3HB-4)I-1	COUNTY Sangamon	TOTAL SHEETS 17	SHEET NO. 12
	CONTRACT NO. 72C69				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			