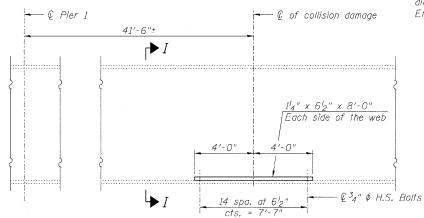


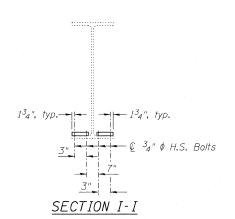
<u>BEAM STRENGTHENING AT</u> <u>ABUTMENT BEARINGS</u>

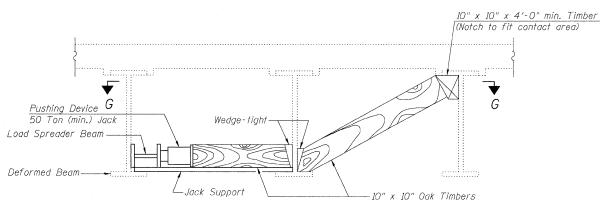
(8 Locations)

Strengthening required at west end of Beams 9 thru 13 and east end of Beams 8, 10 and 13. Cost included with Furnishing and Erecting Structural Steel.

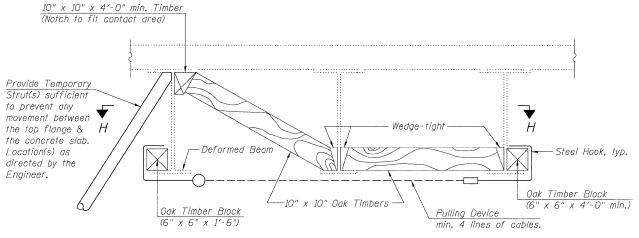


BEAM STRENGTHENING DETAIL AT BEAM 8 (Looking North)



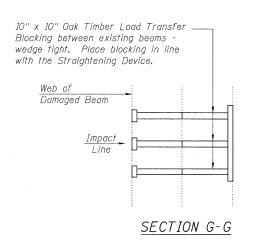


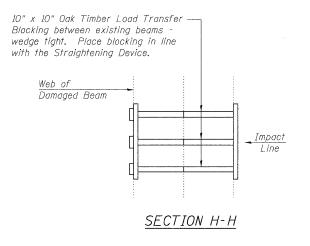
HORIZONTAL STRAIGHTENING DETAIL (Pushing Device)



HORIZONTAL STRAIGHTENING DETAIL (Pulling Device)

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





50 Ton min, Jack -Place an HP Bm. or a 6" I-Bm. min. ±1'-6" in length on Bottom Flange. Bm. shall have ${}^{3}_{R}$ " Stiffeners (3 ea. Deformed Beamside of Bm.) welded in place. Bent Bott. Flange shall be straightened before starting any Horiz. Straightening operation. -Shim ₽'s as req'd. Timber Wedge 10" x 10" Oak Timber or HP8 x 36 34" Brg. P 50 Ton min. Jack-Timber Block-VERTICAL STRAIGHTENING DETAIL

— ∉ Beam

Oak Timber Blocks

(Cost included with pay item Beam Straightening.)

Note:

Beam straightening operations shall be performed prior to removal of existing deck slab.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	12180
Structural Steel Removal	Pound	7980
Beam Straightening	Each	3

Notes:

All new fasteners shall be high strength bolts. Holes shall be subpunched or subdrilled l_4 " smaller than the diameter specified and reamed in the field to specified diameter. Contractor shall field verify that proposed bolt locations do not conflict with existing holes from end diaphragm connection.

Beam straightening operations shall be performed prior to pouring new bridge deck. Work this sheet with Sheet 26 of 39.

(Sheet 2 of 2)

E	LIN ENGINEERING,LTD. Consulting Engineers Chatham, Illinois
	Chathem, Illinois

	USER NAME =	DESIGNED	-	MTH	REVISED	-	Г
	FILE NAME =	CHECKED	-	ADB	REVISED	-	
	PLOT SCALE =	DRAWN	-	AJF	REVISED	-	
	PLOT DATE =	CHECKED	-	MTH	REVISED	_	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS	F.A.P. RTE.
STRUCTURE NO. 045-0037	573
SHEET NO. 27 OF 39 SHEETS	