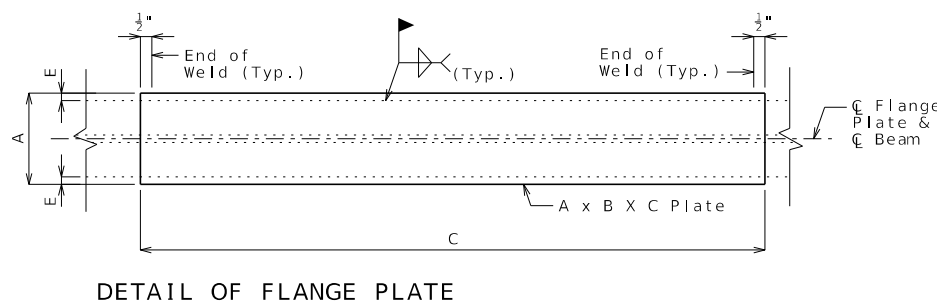
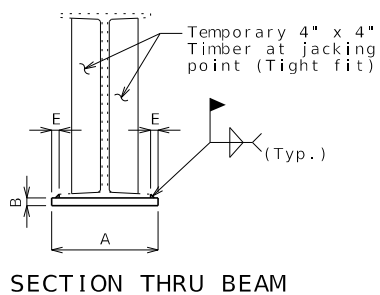
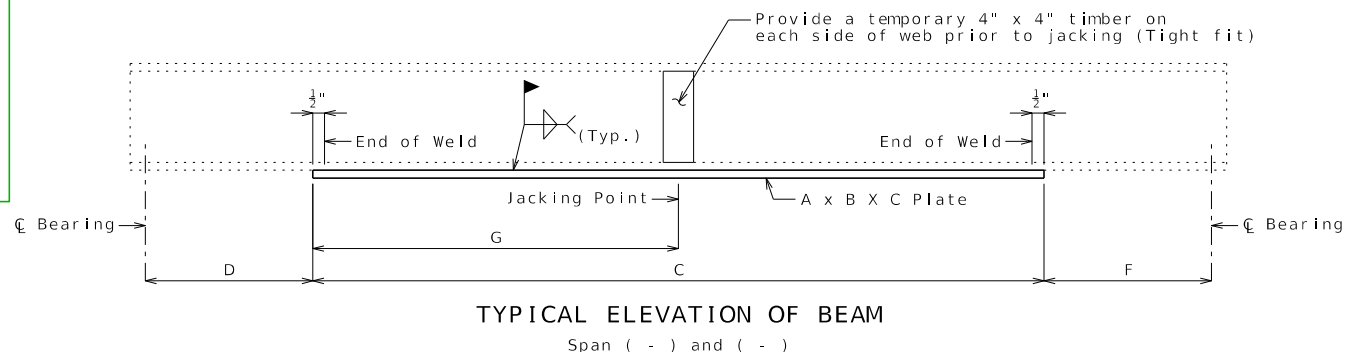


U.I.P., STRENGTHEN AND REHABILITATE EXISTING (X', X', X') WIDE FLANGE BEAM SPANS (SKEW: X)

STANDARD DETAILING GUIDANCE
 (do not show on plans):
 Use for adding welded cover plates
 and applying a jacking load to
 increase capacity.
 A "no jack" option may be used by
 designer in lieu of "jacking" option.
 Welding in both cases should not be
 performed under live load, especially
 direct live load.



Estimated Quantities		
Item	Lump Sum	Total
Strengthening Existing Beams		1

General Notes:
Design Specifications:
 2002 AASHTO LFD (17th Ed.) Standard Specifications
Design Loading:
 1993 Missouri Posting Loads (H20 & 352)
 No Future Wearing Surface
Design Unit Stresses:
 Structural Carbon Steel Fy= 36,000 psi (New Steel)
 Existing Steel Fy = _____ psi
 Working Stress Design = 68% of Fy (Existing)
Paint:
 Calcium Sulfonate (2 coats)
Beam Support:
 All existing beams in the span being strengthened shall be raised simultaneously Dimension H at jacking point and supported during welding of new steel plates.
 The temporary supports must be capable of safely supporting a service load of approximately Load J tons per beam (factor of safety not included). See special provisions.
Traffic Handling:
 One lane of traffic shall be maintained on structure during construction. See roadway plans for traffic control.
Miscellaneous:
 Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.
 Longitudinal dimensions are based on the original design plans.
 Contractor shall verify all dimensions in field before finalizing the shop drawings.

Beam Location	Dimensions								Load
	A	B	C	D	E	F	G	H	

**REPAIRS TO BRIDGE: ROUTE *
 OVER *
 ROUTE * FROM * TO *
 ABOUT * MILES * OF *
 STA. _____ ± (Match Existing)**

DATE PREPARED	3/7/2024
ROUTE	STATE
DISTRICT	MO
	SHEET NO.
	27
COUNTY	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)