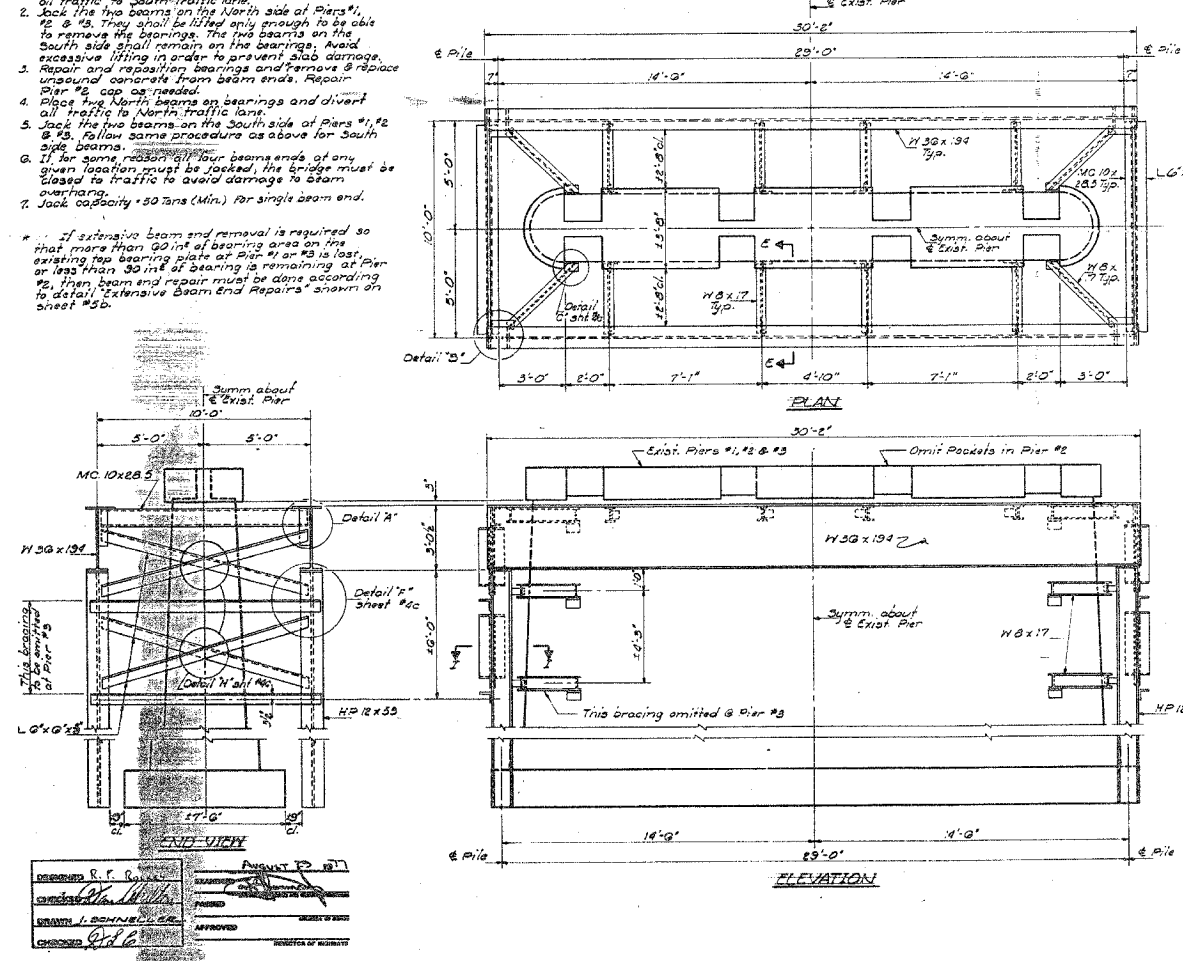


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

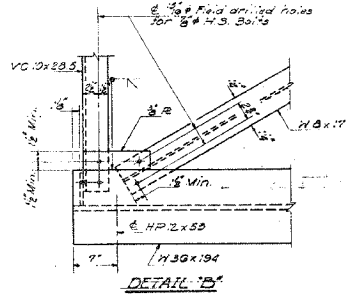
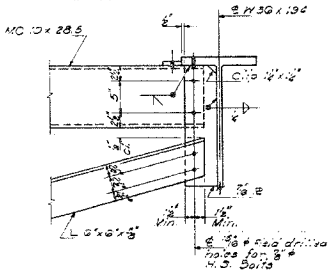
- JACKING PROCEDURE**
1. Place temporary barricades on E. Hwy. and divert all traffic to South traffic lane.
 2. Jack the two beams on the North side of Piers #1, #2 & #3. They shall be lifted only enough to be able to remove the bearings. The two beams on the South side shall remain on the bearings. Avoid excessive lifting in order to prevent slab damage.
 3. Repair and reposition bearings and remove & replace unsound concrete from beam ends. Repair Pier #2 cap as needed.
 4. Place the North beams on bearings and divert all traffic to North traffic lane.
 5. Jack the two beams on the South side of Piers #1, #2 & #3. Follow same procedure as above for South side beams.
 6. If, for some reason all four beams end of any given location must be jacked, the bridge must be closed to traffic to avoid damage to beam overhang.
 7. Jack capacity = 50 Tons (Min.) for single beam end.
- * If extensive beam end removal is required so that more than 50% of bearing area on the existing top bearing plate at Pier #1 or #3 is lost or less than 50% of bearing is remaining at Pier #2, then beam end repair must be done according to detail 'Extensive Beam End Repairs' shown on sheet #50.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NO.	DATE	BY	CHKD.	APP'D.

SHEET NO. 48
OF SHEETS



Note:
 All bolts shall be 3/4" H.S. Bolts unless otherwise noted.
 All edge distances for bolts shall be 1/2" Min. unless otherwise noted.
 A jack safety system subject to the approval of the Engineer shall be used to prevent the structure from falling more than 4" should the jack plunger fail.
 A bearing plate 1/4" x 10" shall be placed between the concrete beam surface and the jack during jacking operations.
 Positive attachment of the jack to the H 30 x 194 beam shall be provided.

PILE DATA
 Type: Steel HP 12 x 53
 Capacity: Drive & Refusal
 No. Req'd: 4 each Pier
 Est. Length: 27 Ft. Pier #1
 25 Ft. Piers #2 & #3
 (Piles included in Temporary Support Sys.)

PIERS #1, #2 & #3
TEMPORARY SUPPORT SYSTEM
 DES. BY: [Signature] SEE 106 BY
 ST. CLAIR COUNTY
 STA. 005184.00

DESIGNED BY	APPROVED BY
CHECKED BY	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY
 VERT. SCALE: DRAWN BY
 HORIZ. SCALE: CHECKED BY
 DATE:

FOR INFORMATION ONLY

PLOT DATE = 11/07/2006
 FILE NAME = c:\p\pro\secta\ed1158\plan\pof\1st1198a.dgn
 PLOT SCALE = 50.0000 / 1"
 REFERENCE = #REF#