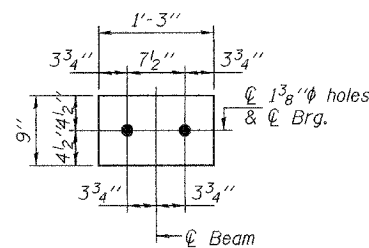


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

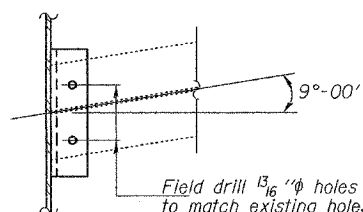
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 64		WAYNE	11	7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
6 SHEETS



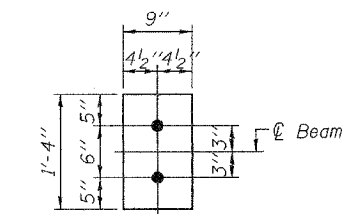
DETAIL A

Sole PL 1 3/16" x 9" x 1'-3"



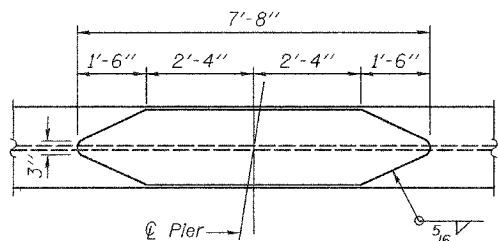
SECTION D-D

Field drill 1 3/16" holes to match existing holes in diaphragm.

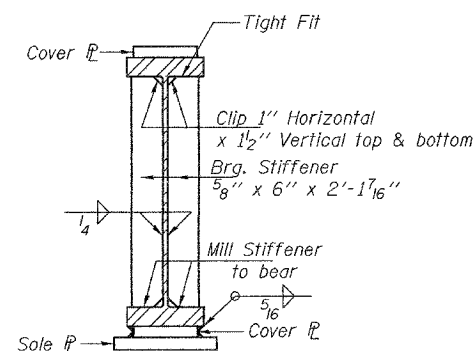


DETAIL B

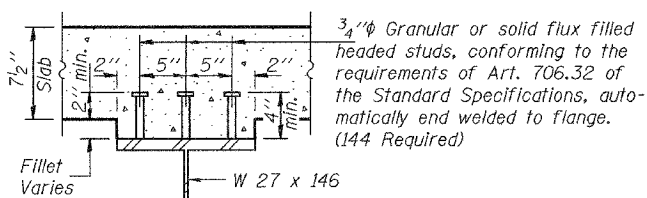
Sole PL 1" x 9" x 1'-4"



TOP & BOTTOM COVER PLATE
PL 3/16" x 13" x 7'-8" (NTR). (2 Ea.)

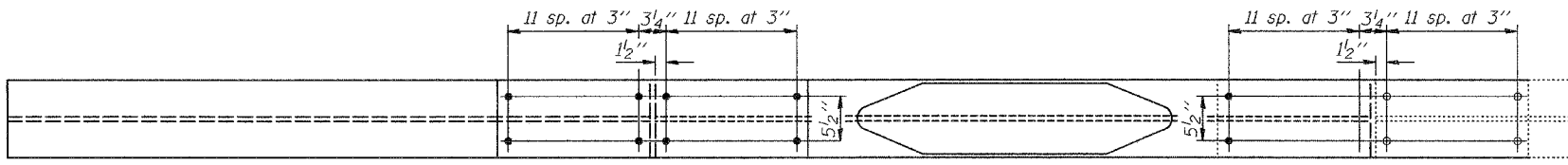


SECTION C-C

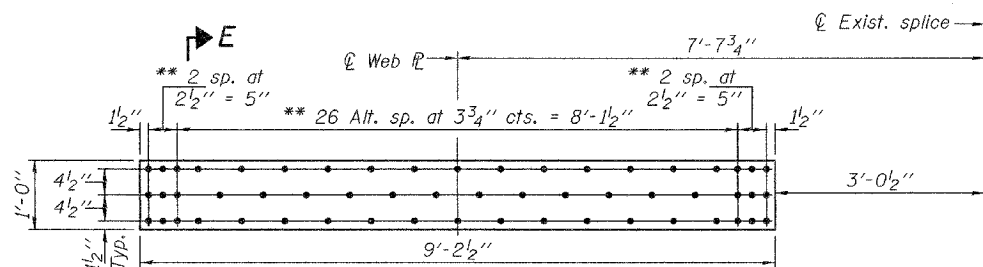


SHEAR CONNECTORS

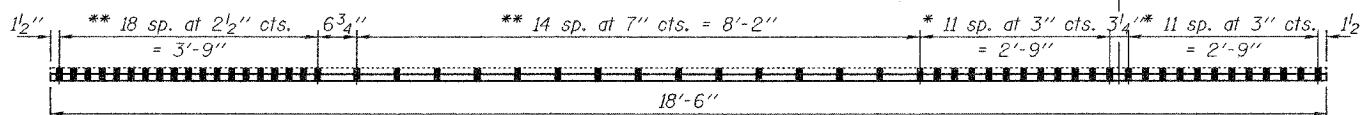
3/4" Granular or solid flux filled headed studs, conforming to the requirements of Art. 706.32 of the Standard Specifications, automatically end welded to flange. (144 Required)



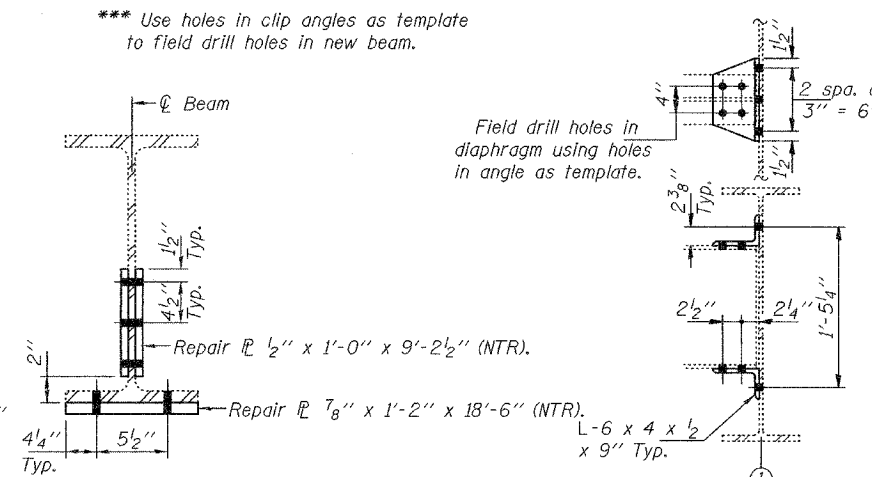
ELEVATION BEAM 1



WEB STRENGTHENING PLATE BEAM 6
PL - 1/2" x 1'-0" x 9'-2 1/2" (NTR). (1 ea. side)



BOTTOM FLANGE STRENGTHENING PLATE BEAM 6
1 PL - 7/8" x 1'-2" x 18'-6" (NTR)
(Looking North)



SECTION E-E

CLIP ANGLE REPLACEMENT DETAIL

Notes:
Existing clip angles are to be removed from the existing interior diaphragm by the air-arc method. All weld material remaining on the existing diaphragm shall be ground smooth.
Diaphragm connection holes shall be 1 5/16" for 3/4" bolts.
Two hardened washers shall be required at diaphragm connections.
Natural camber of new beam shall be placed upward for fabrication.
Cost included with Furnishing and Erecting Structural Steel.

* Remove existing splice plate. Use existing holes in bottom flange as template to field drill holes in new plate.
** Use holes in new plate as template to field drill holes in beam.
Fasteners for beam strengthening shall be 3/4" high strength bolts, in 1 3/16" holes.
Cost of removal of existing bottom flange splice plate is included with Structural Steel Repair.
Existing bolts shall not be re-used.
The cost of the strengthening plates & field drilling required for installation of the steel plates is included with Structural Steel Repair.
Traffic shall be maintained at least one beam spacing away from Beam 6 while splice plate is being replaced.

DESIGNED	MJT
CHECKED	ATH
DRAWN	baliva
CHECKED	MJT ATH

EXAMINED *John A. Morris*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

JUNE 6, 2006

BRIDGE REPAIRS
FAI 64 (WB) OVER US 45
WAYNE COUNTY
SN 096-0053 (WB)