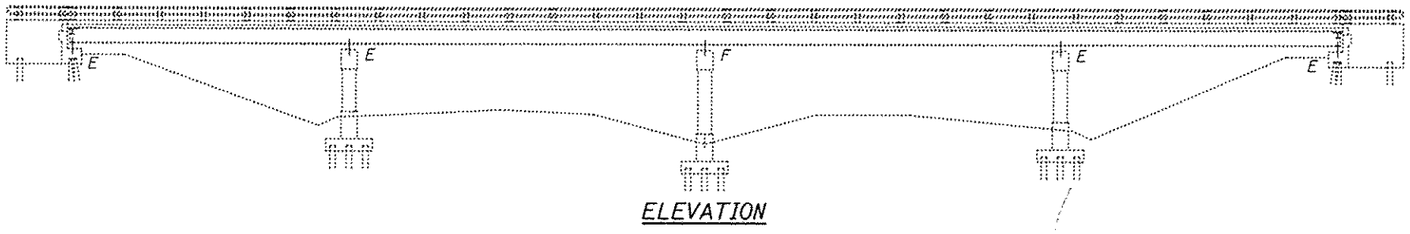
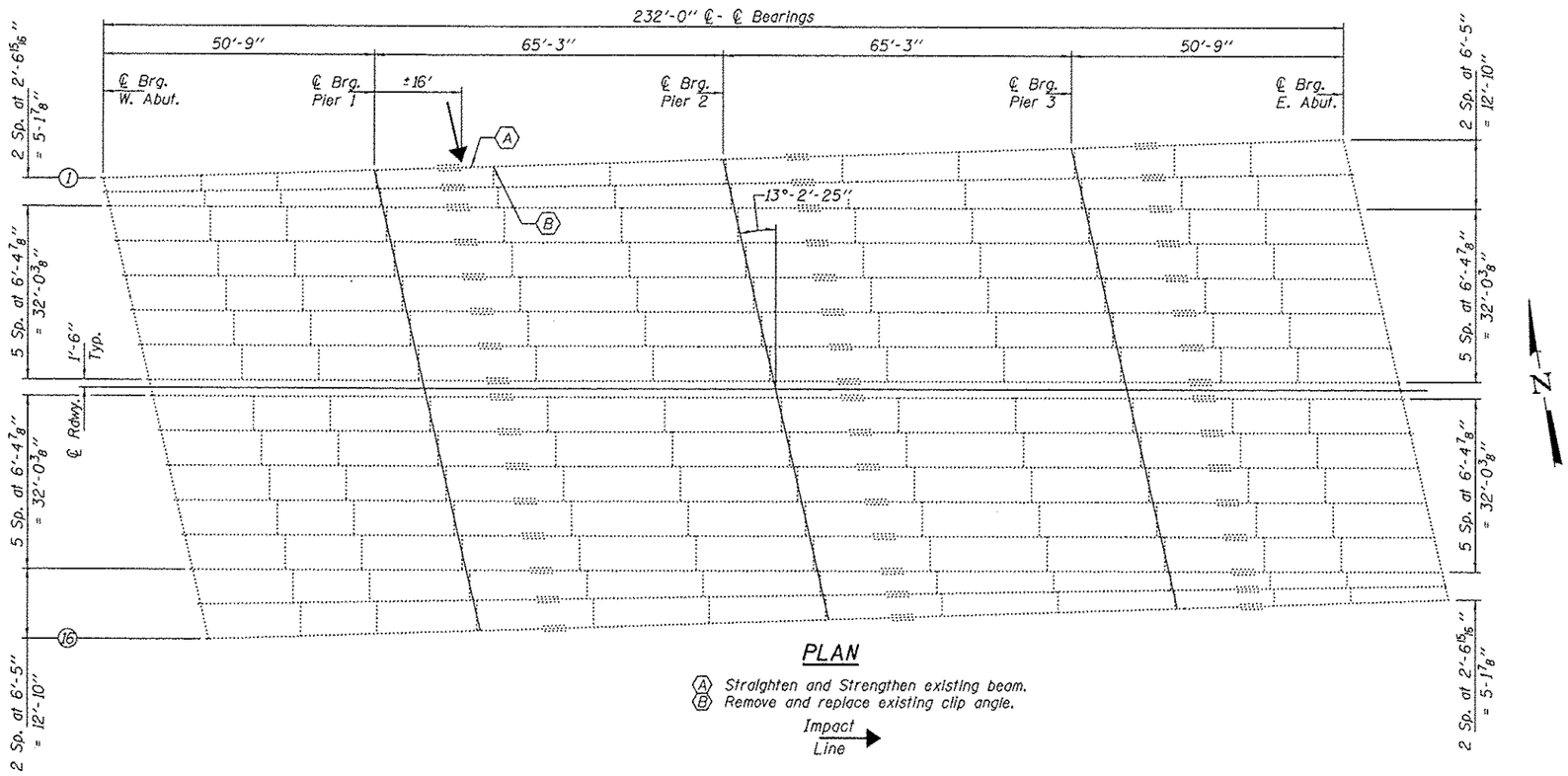


ELEVATION



PLAN

(A) Straighten and Strengthen existing beam.
(B) Remove and replace existing clip angle.

Impact Line

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$"ϕ, open holes $\frac{15}{16}$"ϕ, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

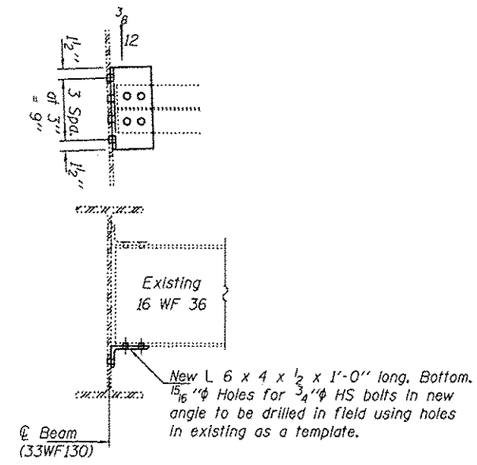
Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

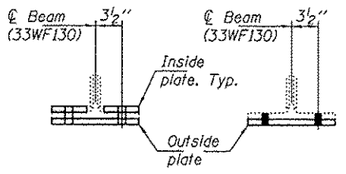
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.

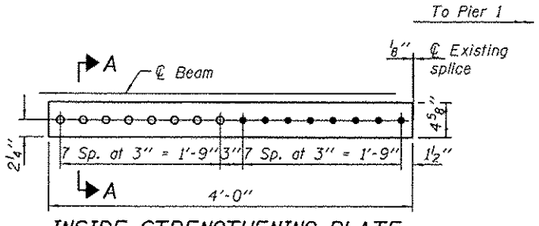
Traffic to be removed from area over Beam 1 while splice is removed and replaced.



CLIP ANGLE REPLACEMENT

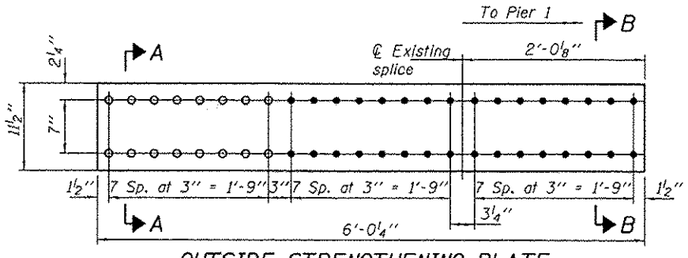


SECTION A-A SECTION B-B



INSIDE STRENGTHENING PLATE

(Looking South)
(PL ¾" x 4 5/8" x 4'-0". 2 required)



OUTSIDE STRENGTHENING PLATE

(Looking South)
(PL ¾" x 11½" x 6'-0¼". 1 required)

LEGEND

- ● - Use holes in beam as template for drilling holes in new plates.
- ○ - Use holes in new plates as template for drilling holes in existing beam.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	330
Beam Straightening	L.S.	0.5

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

EXPIRES 11-30-2014

DESIGNED		EXAMINED	ACTING ENGINEER OF STRUCTURAL SERVICES	DATE	JANUARY 9, 2013
CHECKED		PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	
DRAWN	baliva			REVISED	
CHECKED					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAU 1225 OVER US 41
SN 049-0050
SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1225	2012-025BR	LAKE	21	9
		CONTRACT NO. 60T66		
		ILLINOIS FED. AID PROJECT		