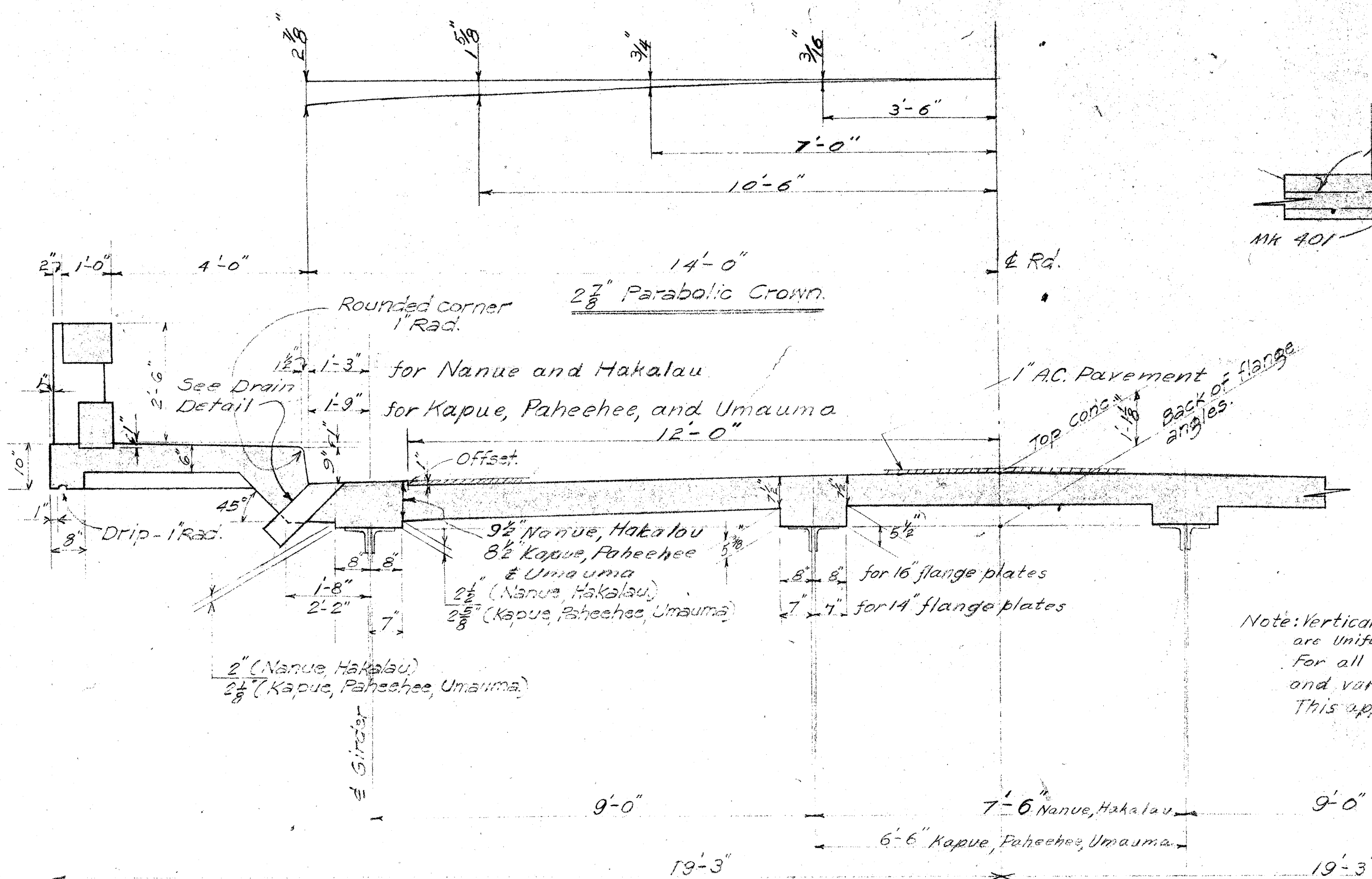
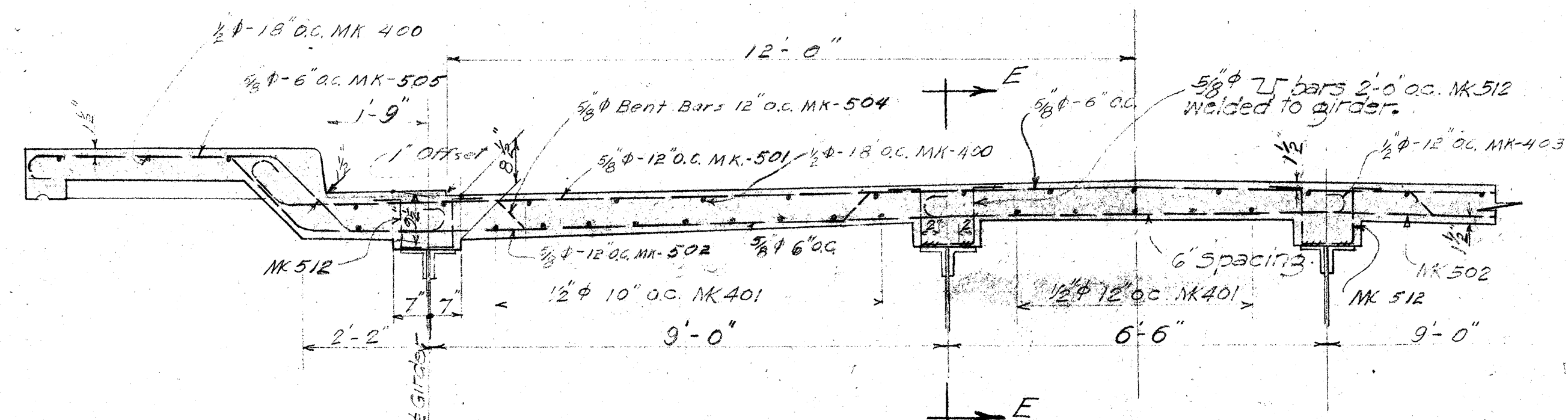
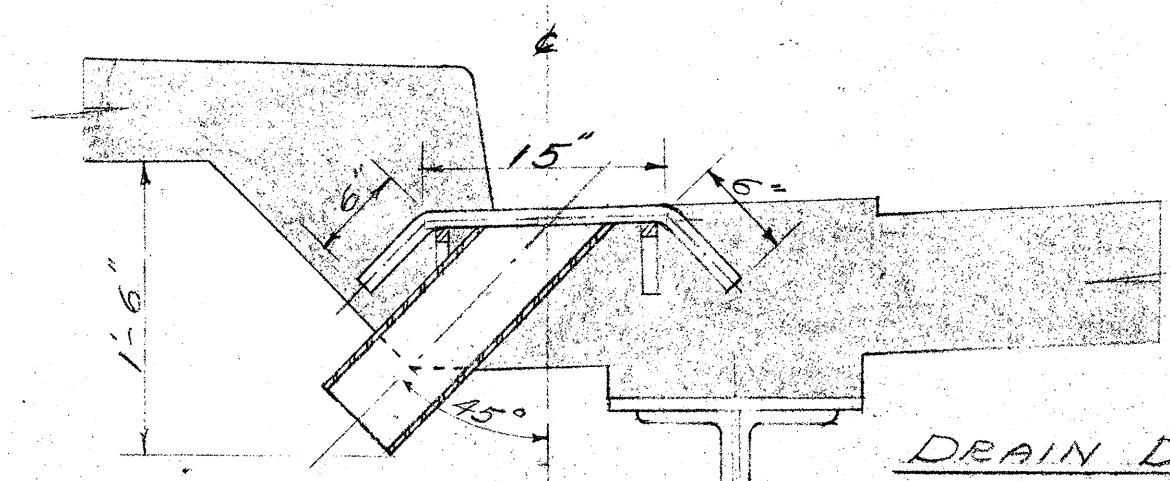




DECK SLAB REINF. - NANUE & HAKALAU BRIDGES



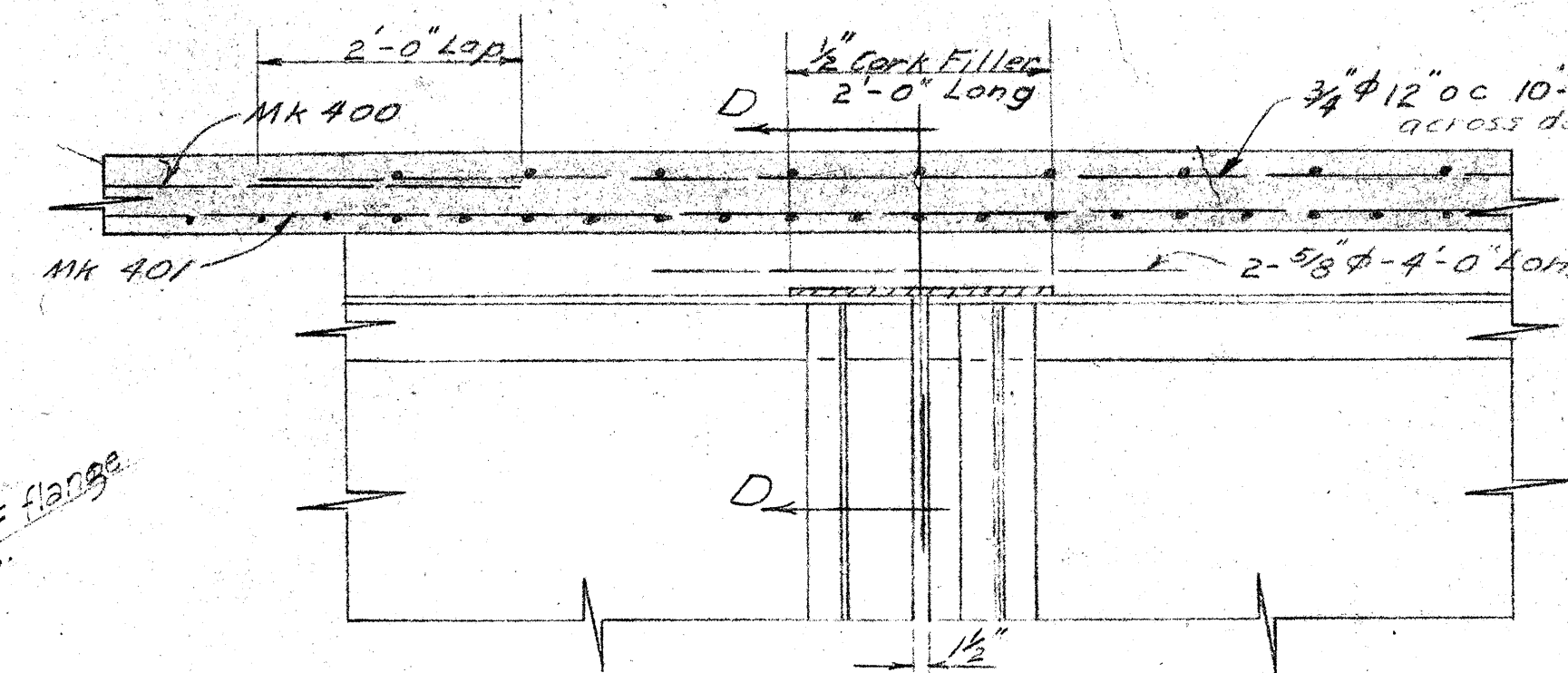
DECK SLAB REINF. - KAPUE, PAHEEHOE AND UMAUMA BRIDGES



DRAIN DETAIL

SCALE 1/2" = 1'-0"

See Std. Details for further details

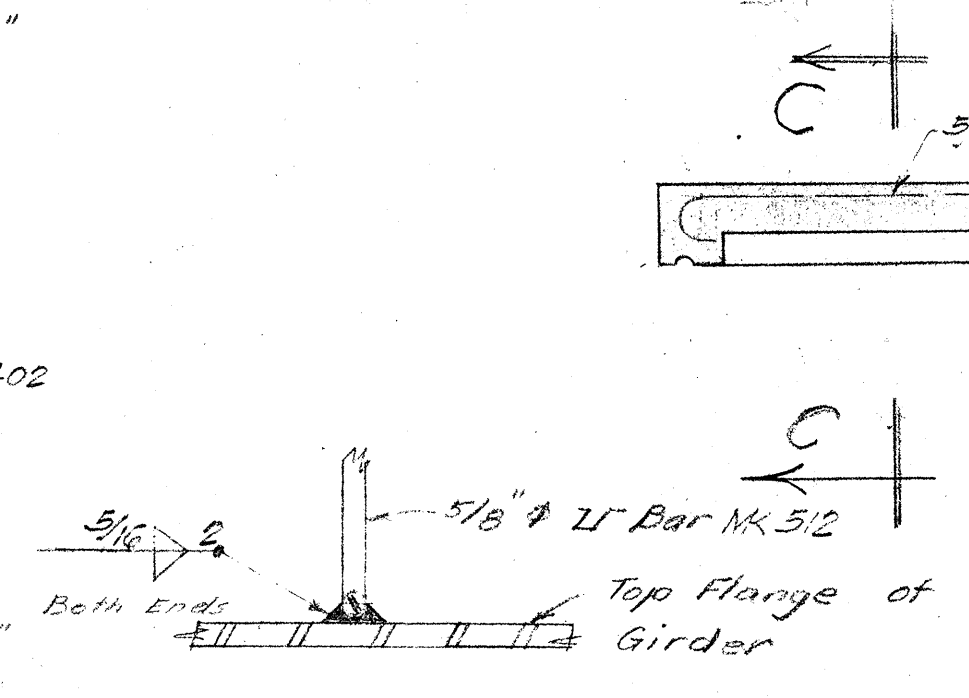


DETAIL AT FIXED BEARINGS

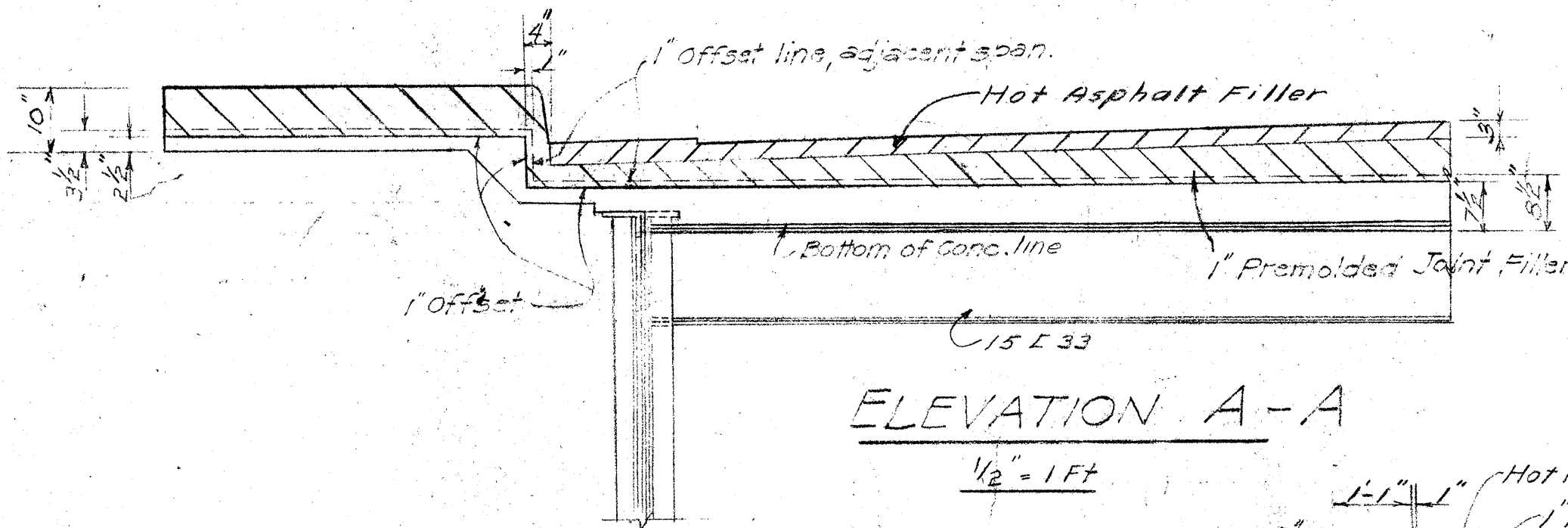
3/4" = 1 FT.

Note: Vertical dimensions of bolsters on girders as shown here are uniform for entire length for Kapue and Nanue Bridges. For all other bridges they hold for the ends of the steel girders only and vary over their length, as shown elsewhere. This applies also to the distance from Fin. Gr. to back of Flange Angles.

Note: Nanue, Hakalau and Umauma Bridges are not in this contract.

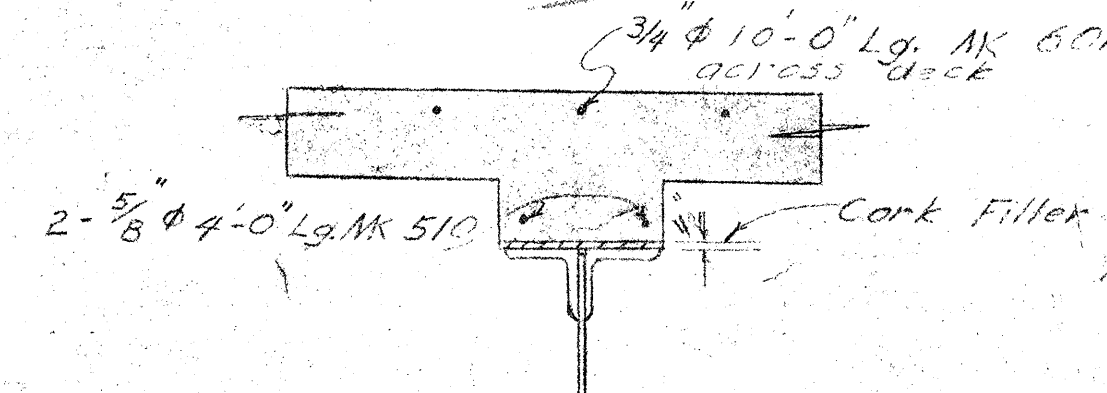


SECTION E-E



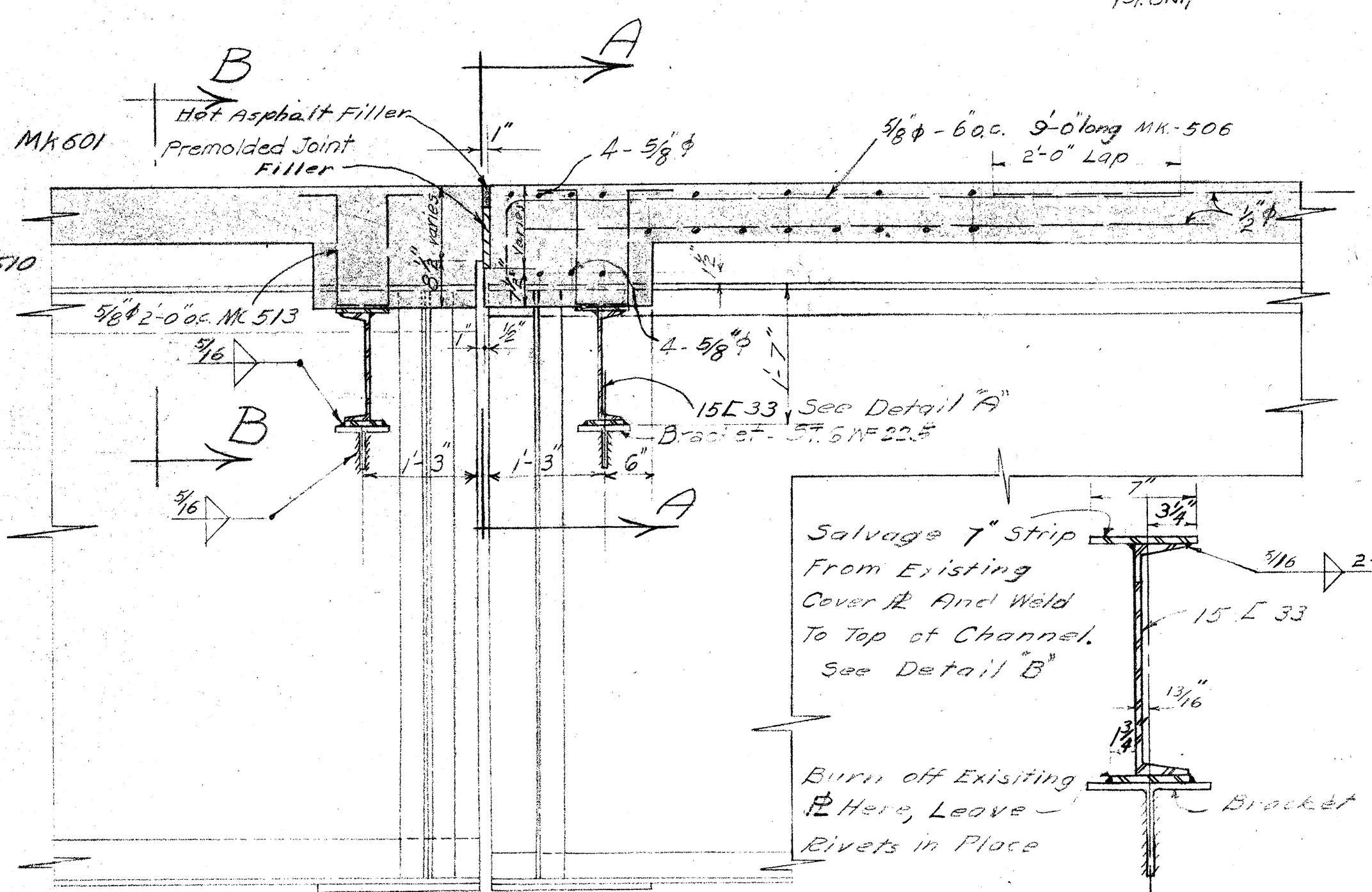
ELEVATION A-A

1/2" = 1 FT.



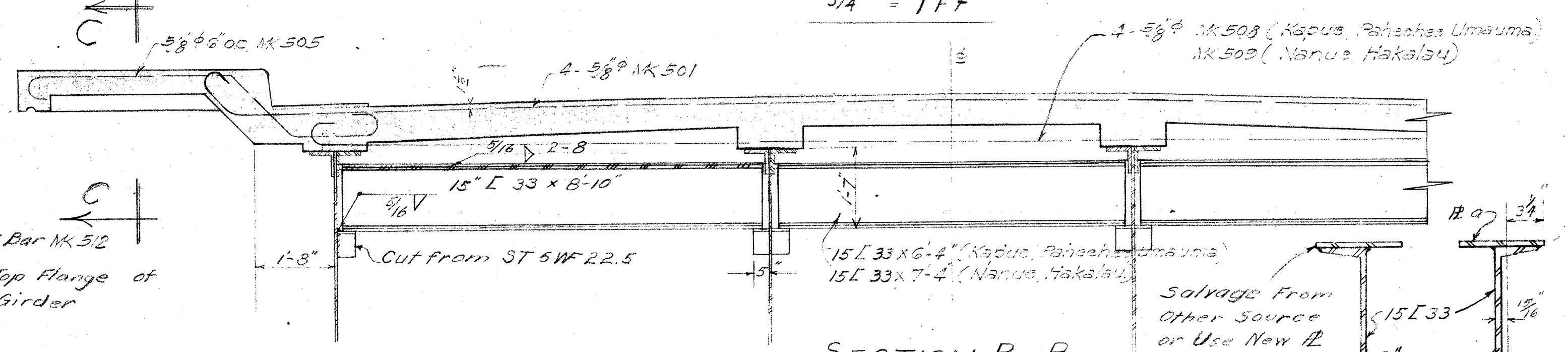
SECTION D-D

3/4" = 1 FT.



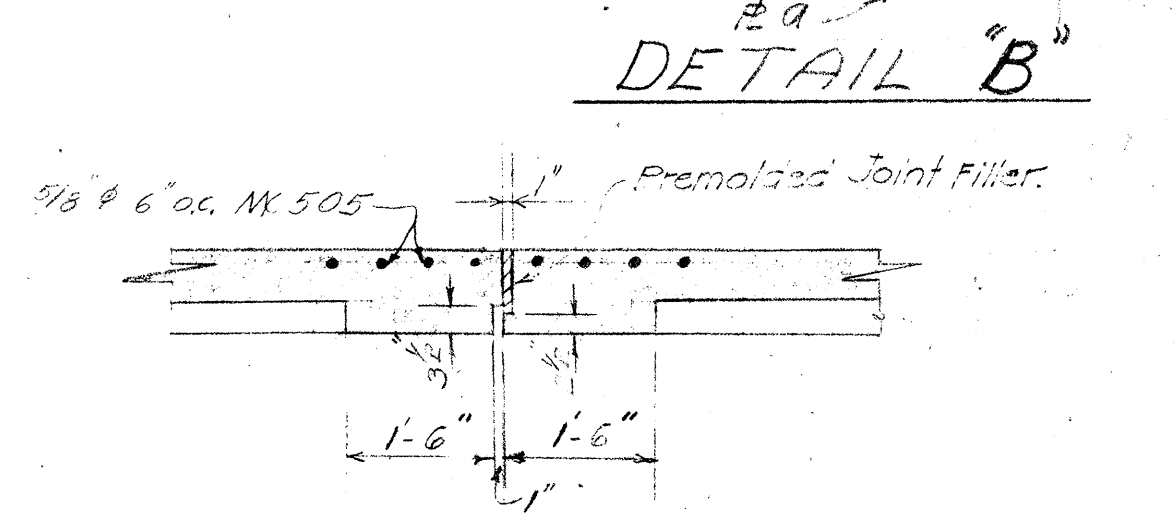
DETAIL AT EXPANSION BEARINGS

3/4" = 1 FT.

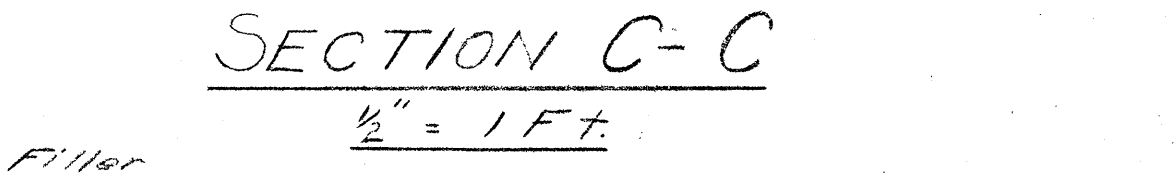


SECTION B-B

1/2" = 1 FT.

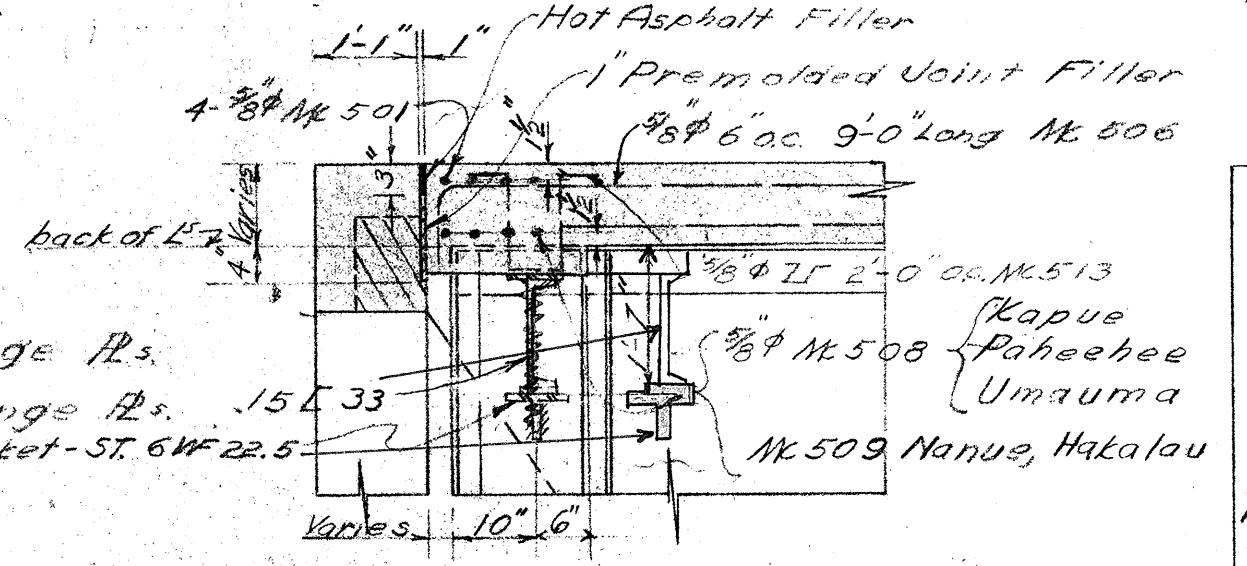


DETAIL "B"



SECTION C-C

1/2" = 1 FT.



DETAIL AT ABUT BEARINGS

1/2" = 1 FT.

Note: This Detail Applies To All Bridges

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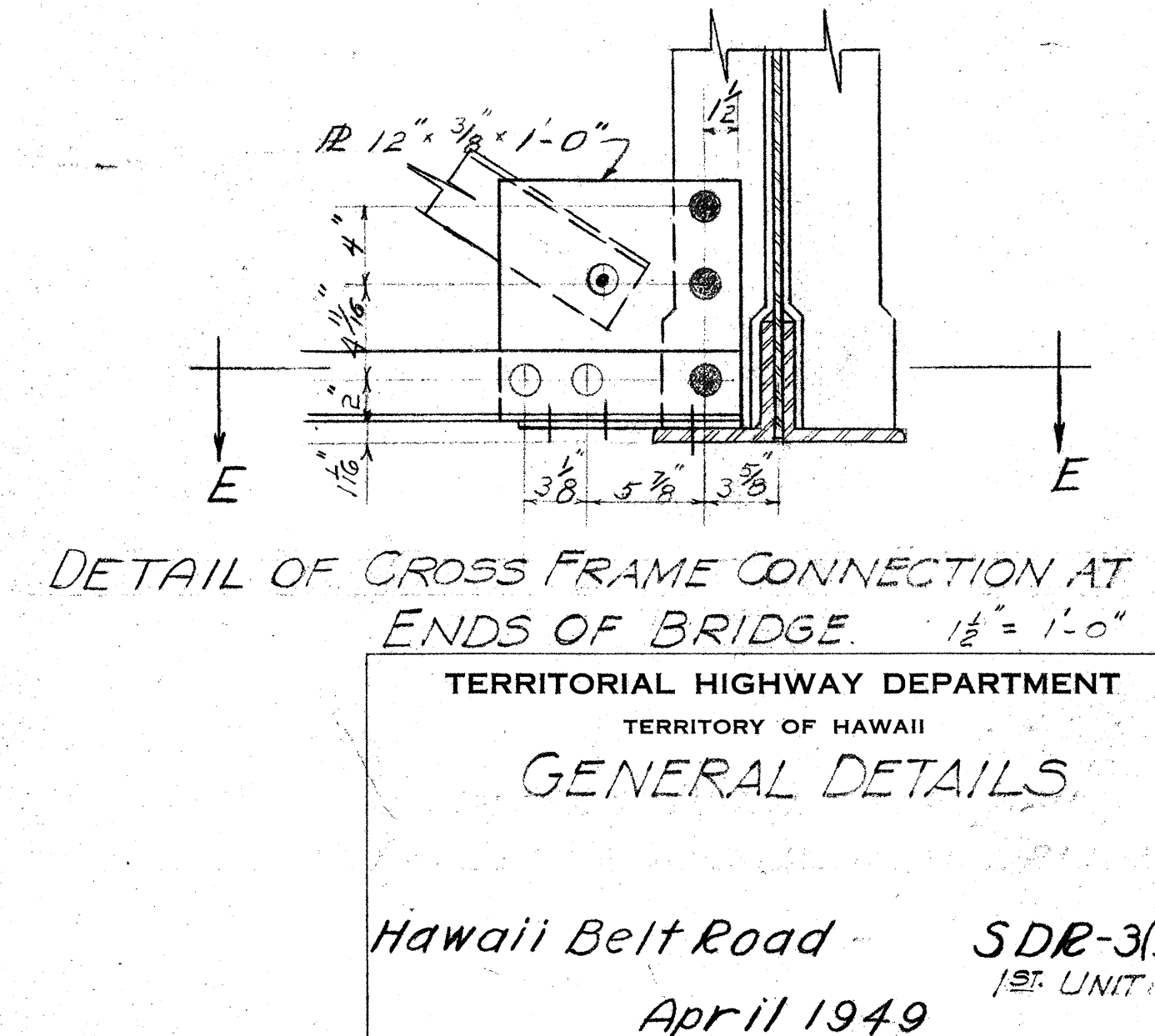
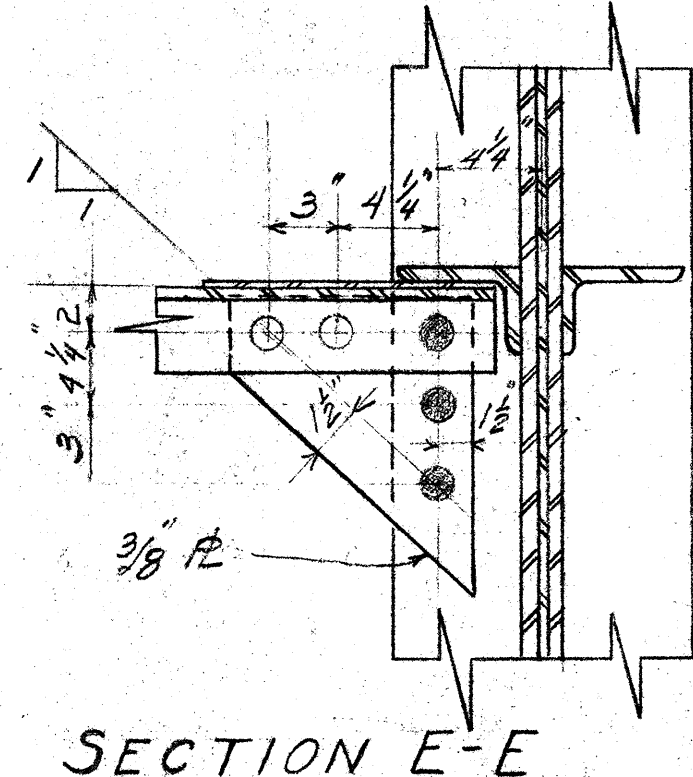
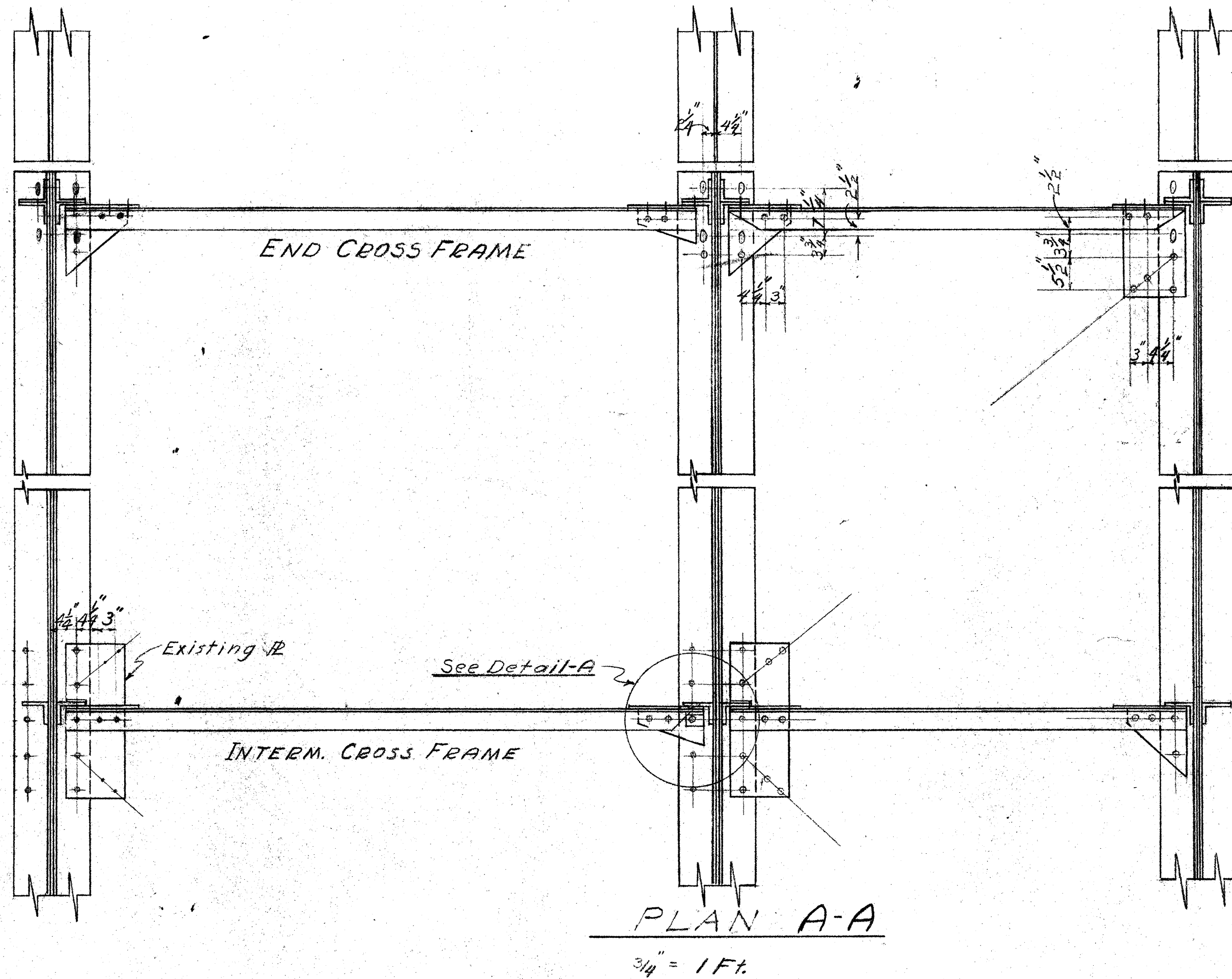
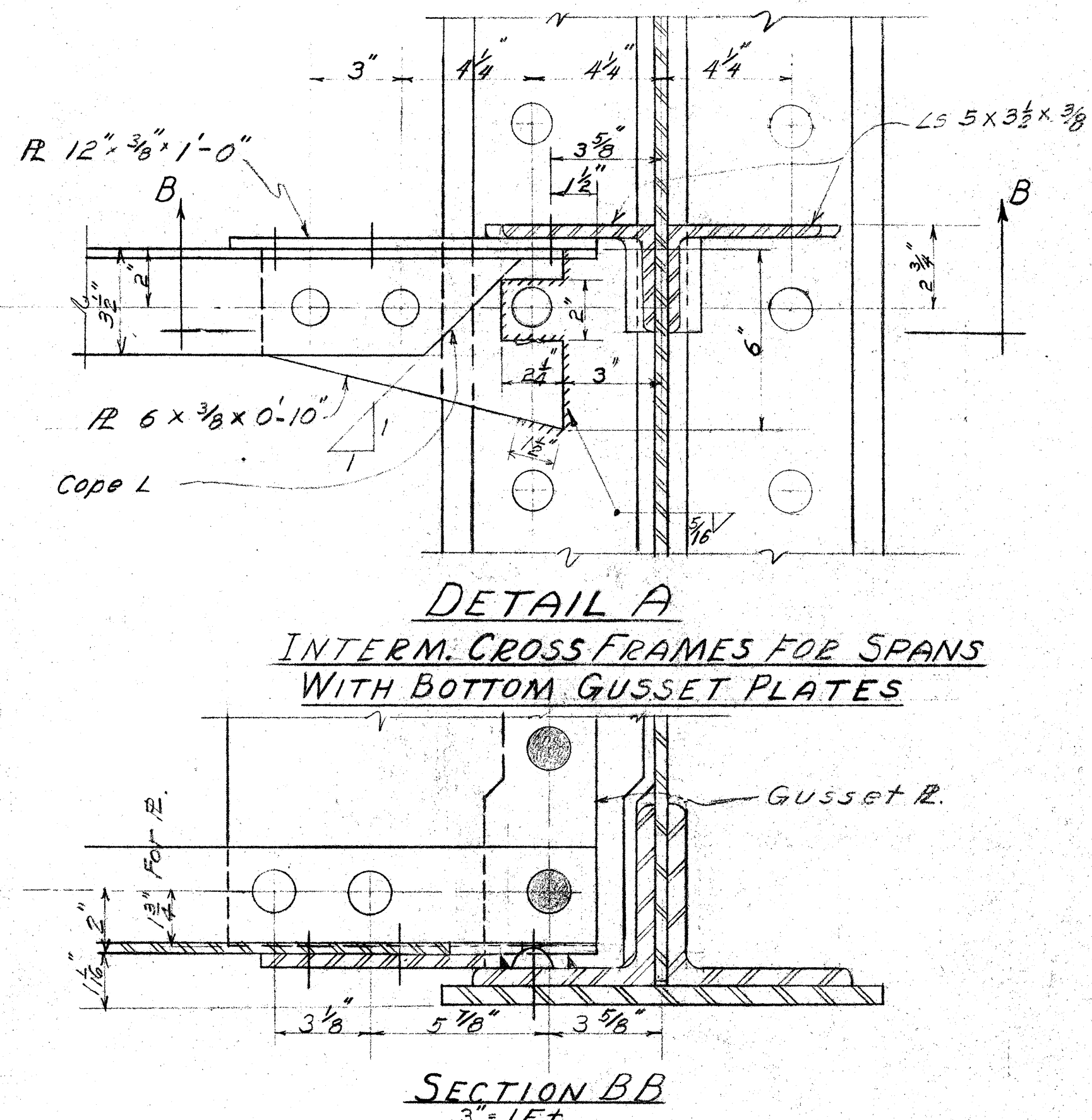
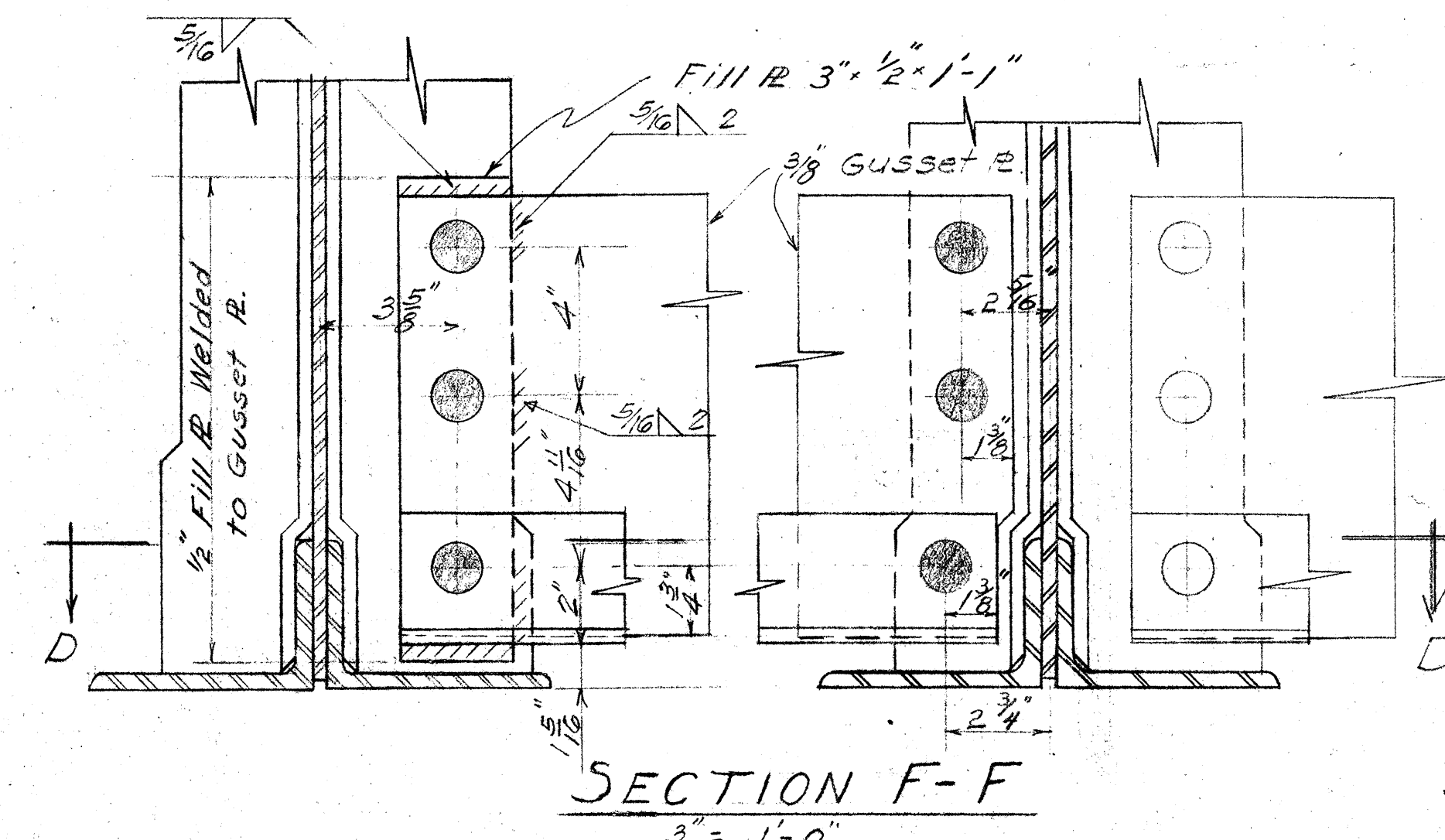
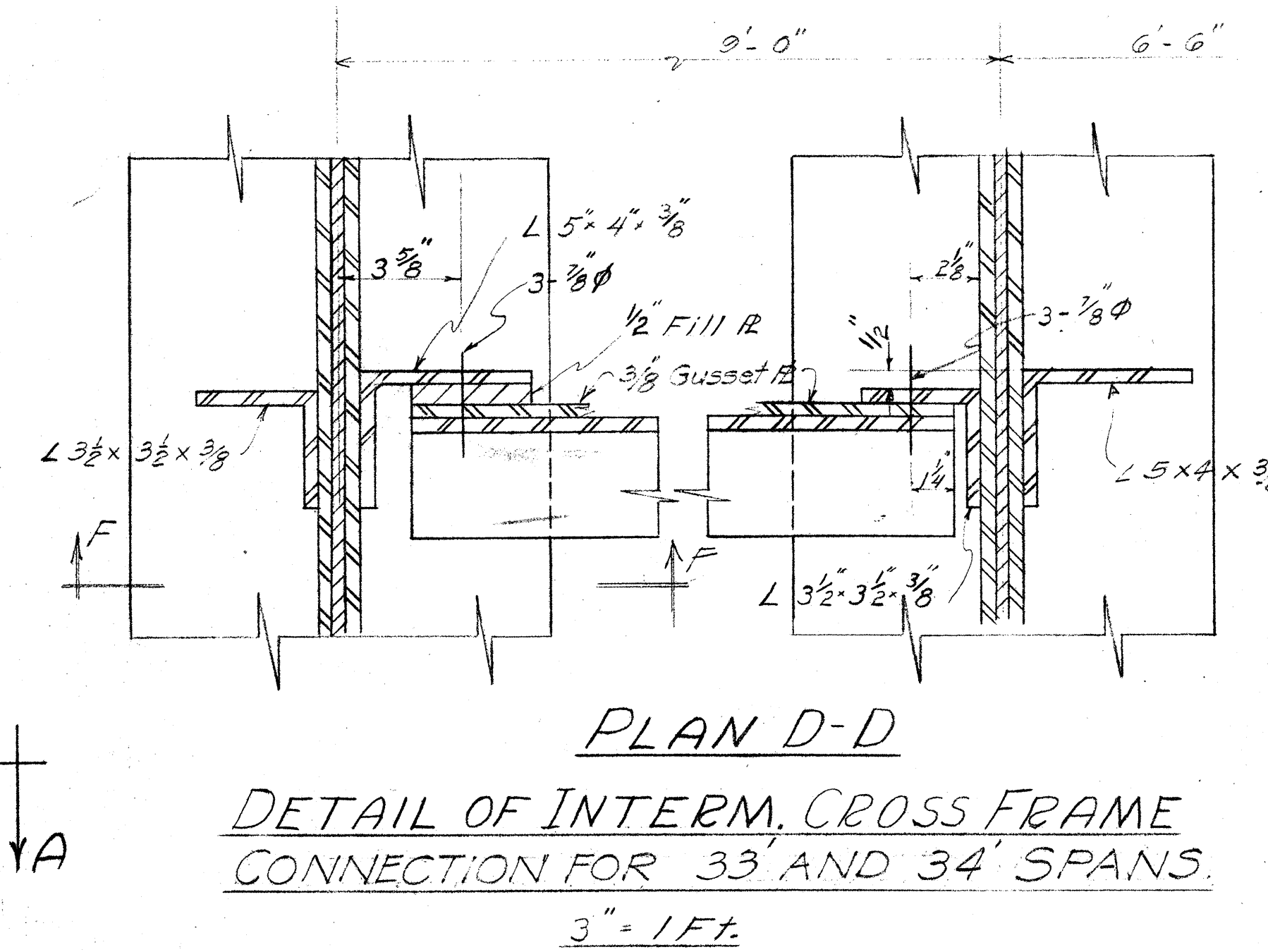
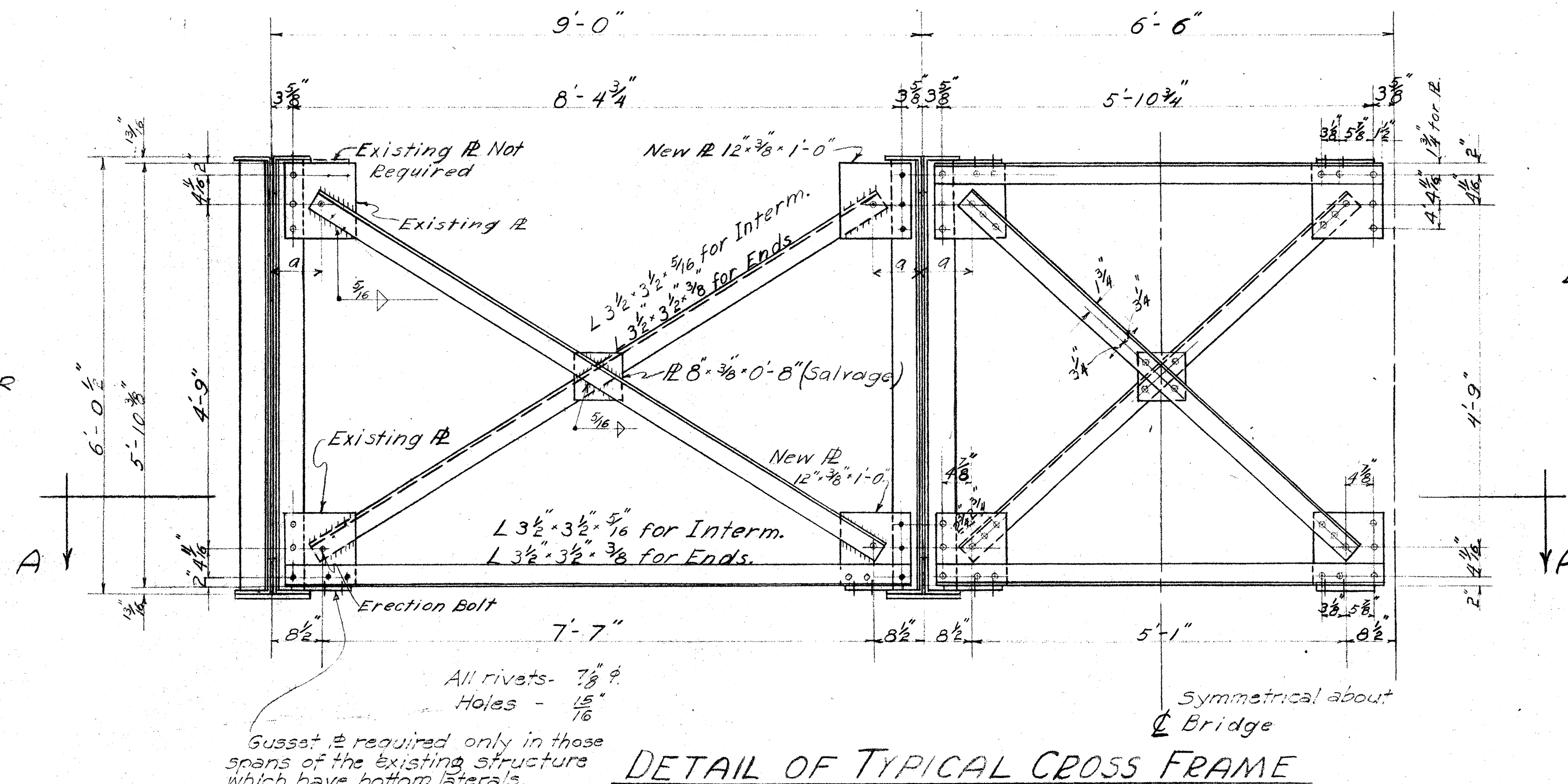
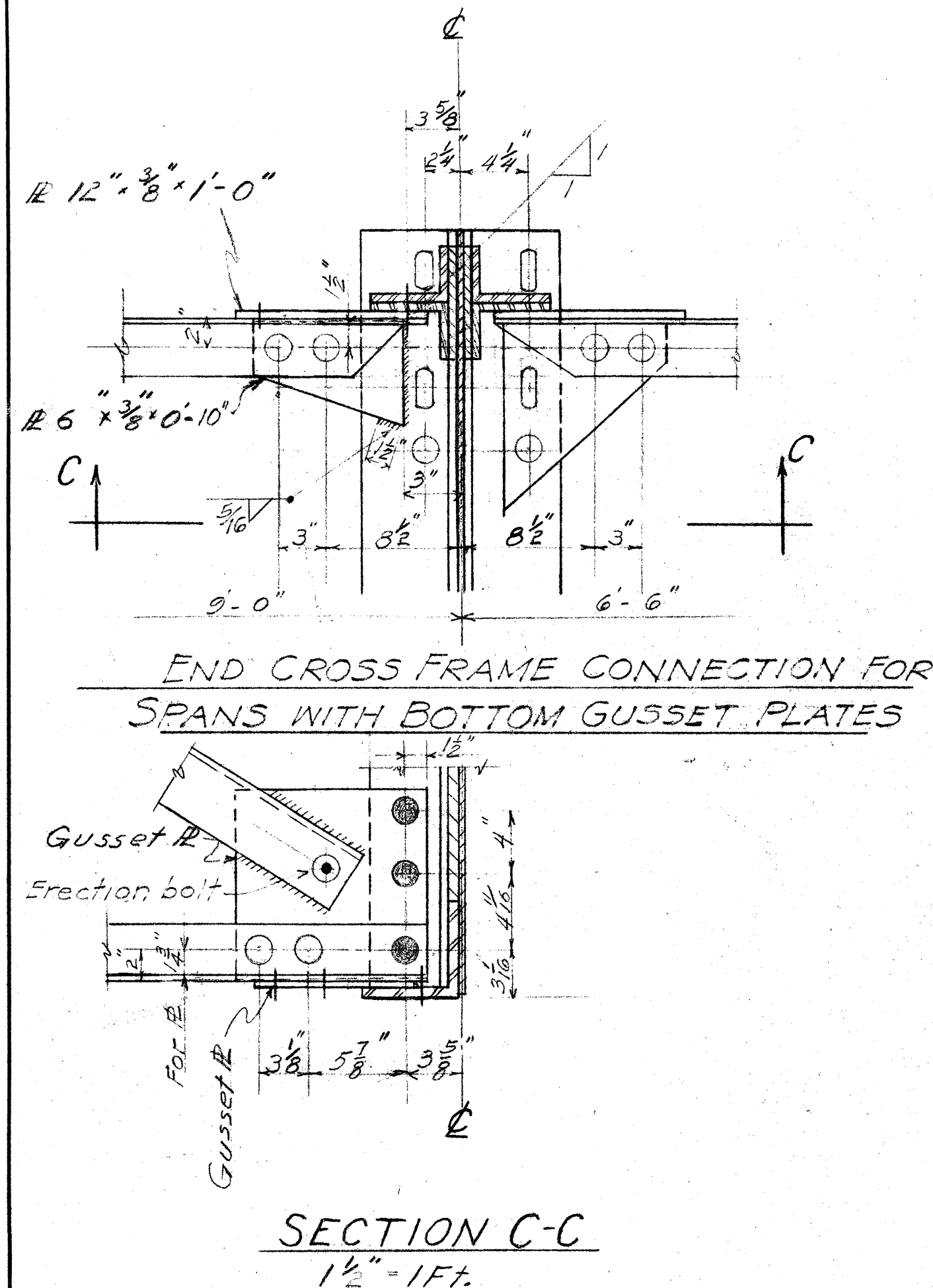
SDR-3(9)

March 1949

15. UNIT

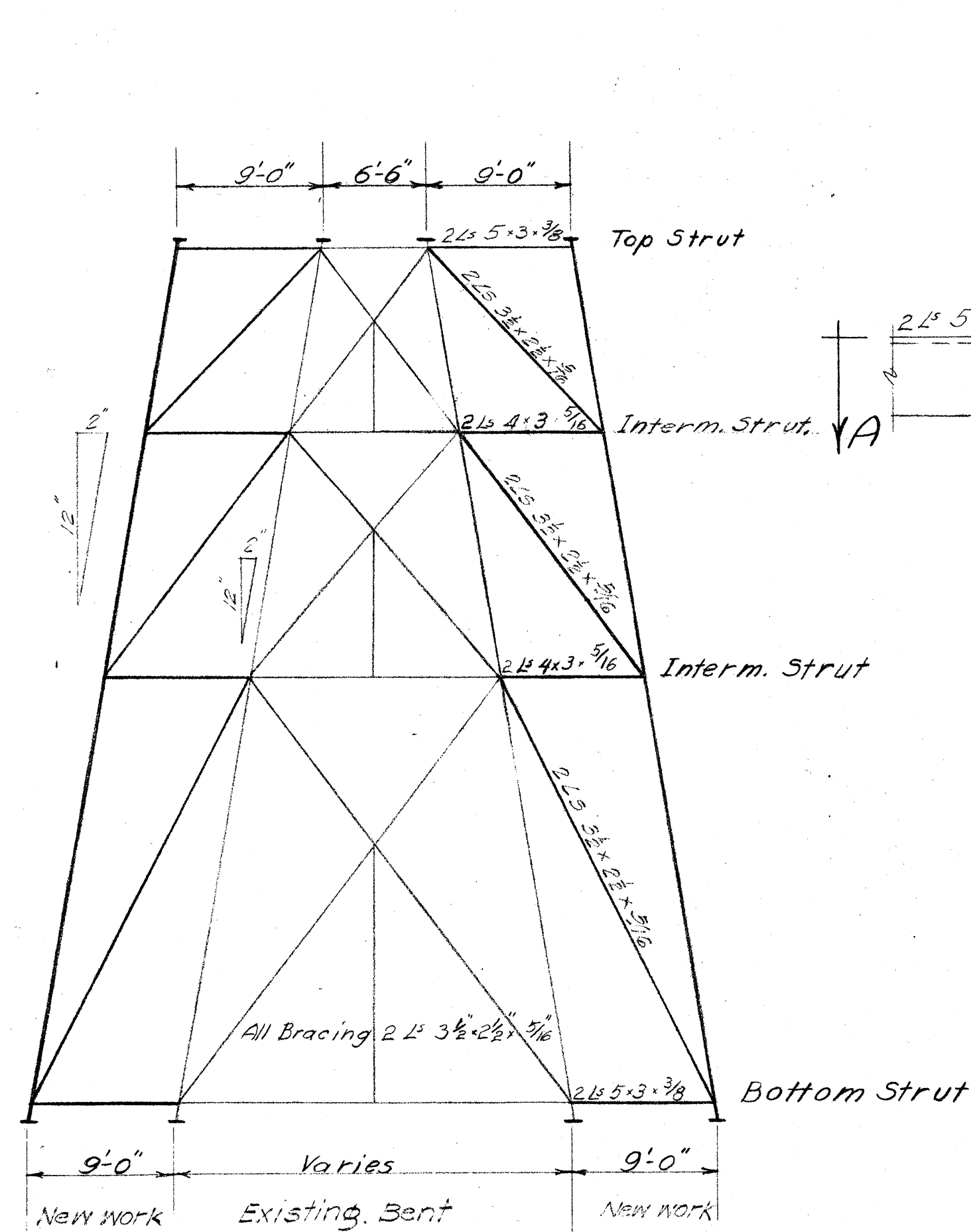
SHEET NO. 5 OF 13 SHEETS

5415.12



SURVEY PLANNED BY: *W. B. BISHOP*
 DESIGNED BY: *A. VAN DER BEEK*
 DRAWN BY: *W. B. BISHOP*
 CHECKED BY: *W. B. BISHOP*
 DATE: *4/13/49*
 NO. *445*

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
GENERAL DETAILS
 Hawaii Belt Road SDR-3(9)
 April 1949 1ST UNIT



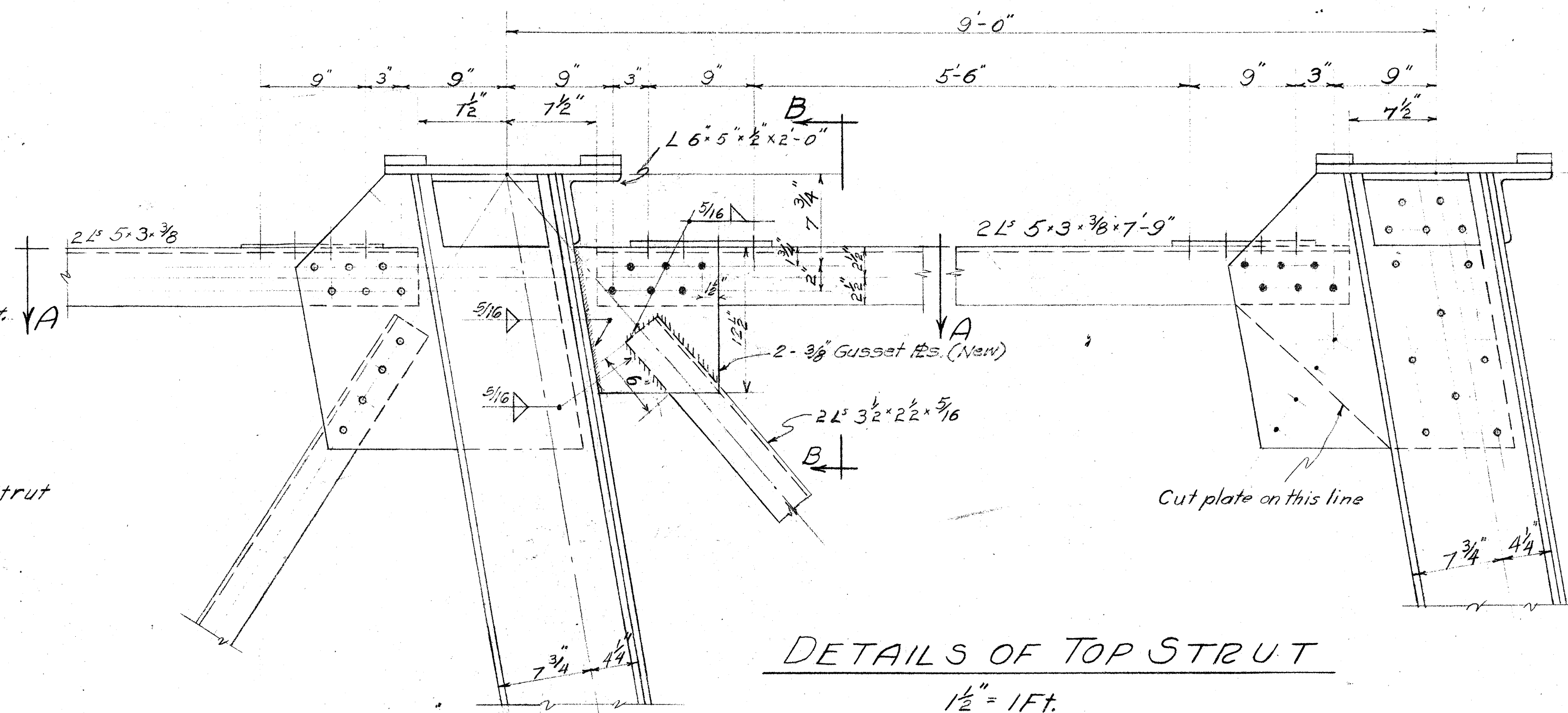
TYPICAL BENT ELEVATION

Note! All struts and diagonals to have tie plate and lattice bar arrangement and outside columns to have 10' x 10' bracing similar to those in the existing structure.

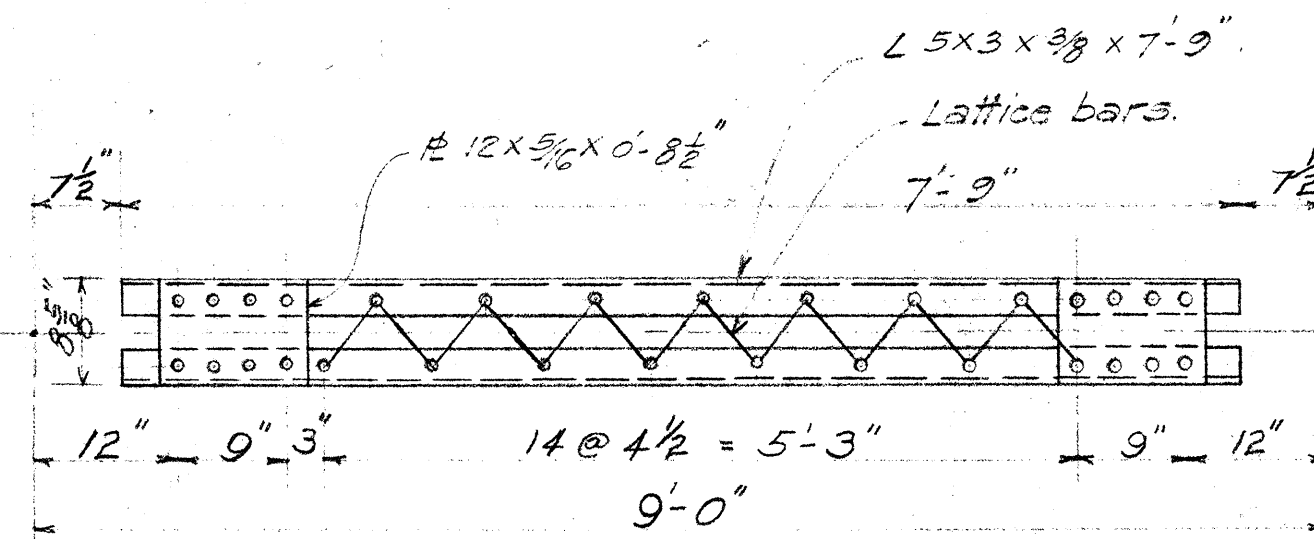
All rivets - 7/8" φ.
Holes - 1 5/16"

In case of discrepancy between bent elevation as shown here and as shown on shop drawings, the latter shall govern.

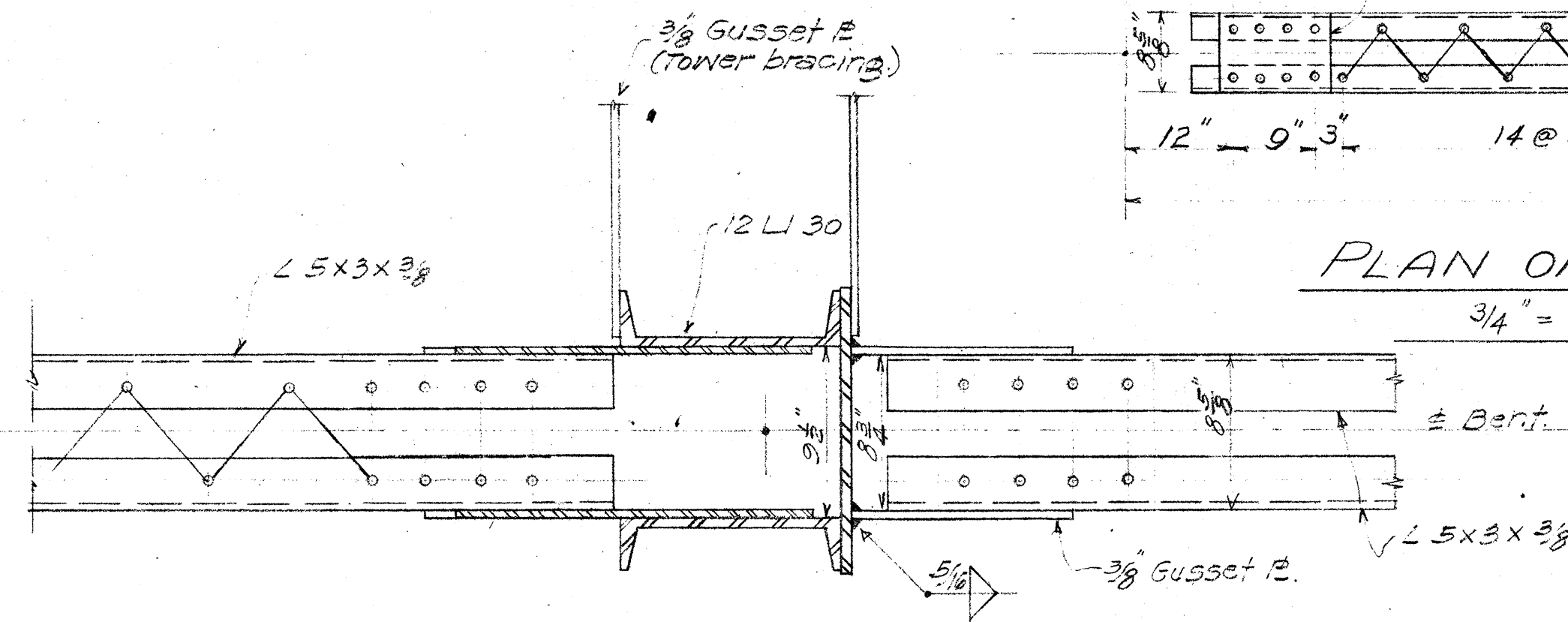
Sheet Nos. 11, 12 and 13 have served as a guide to the supplier of salvaged steel for the making of the shop drawings. These sheets in conjunction with the shop drawings shall serve the purpose of fabricating and erecting all steel, both salvaged and new.



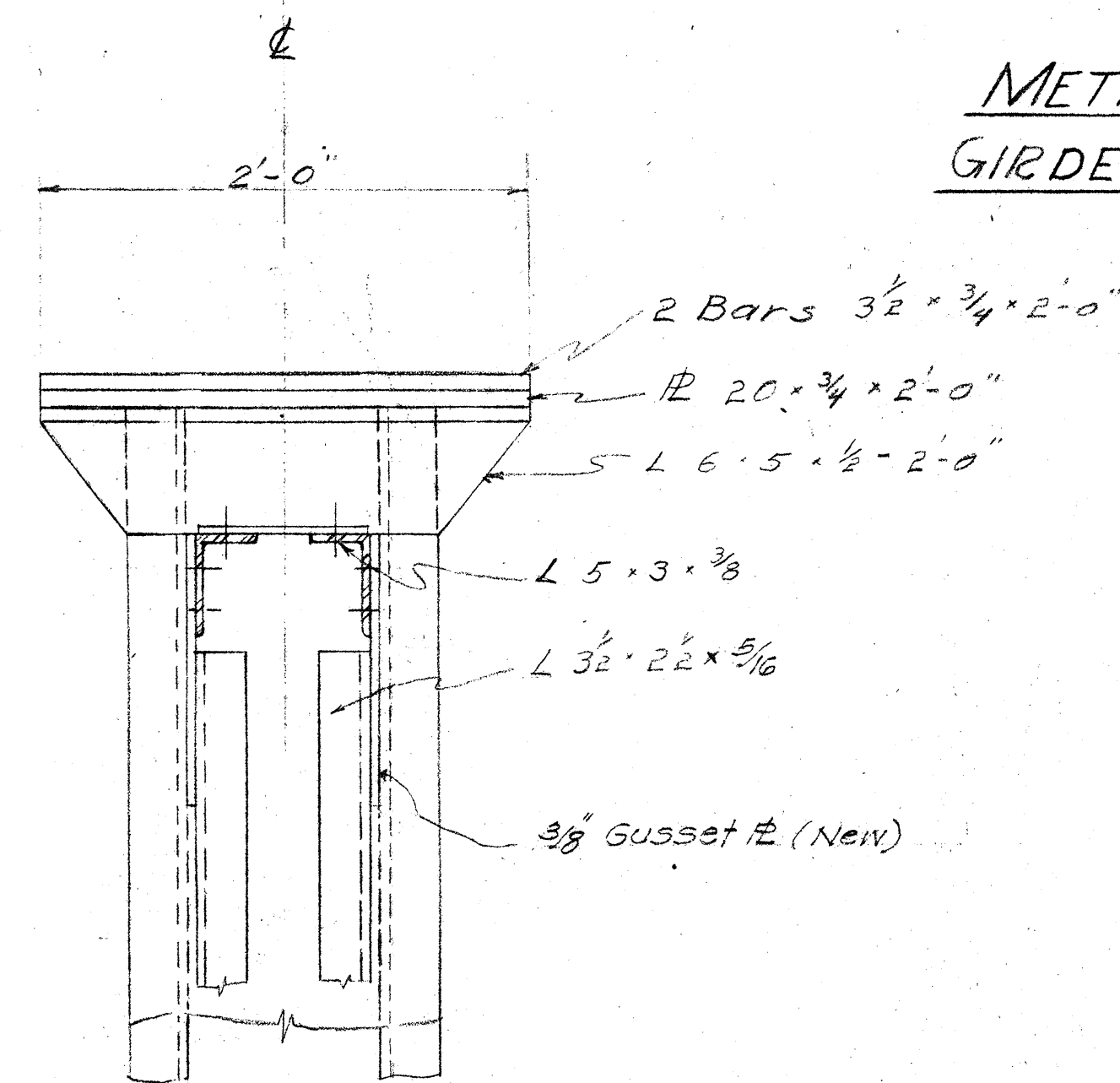
DETAILS OF TOP STRUT

$$\frac{1}{2}'' = 1Ft.$$


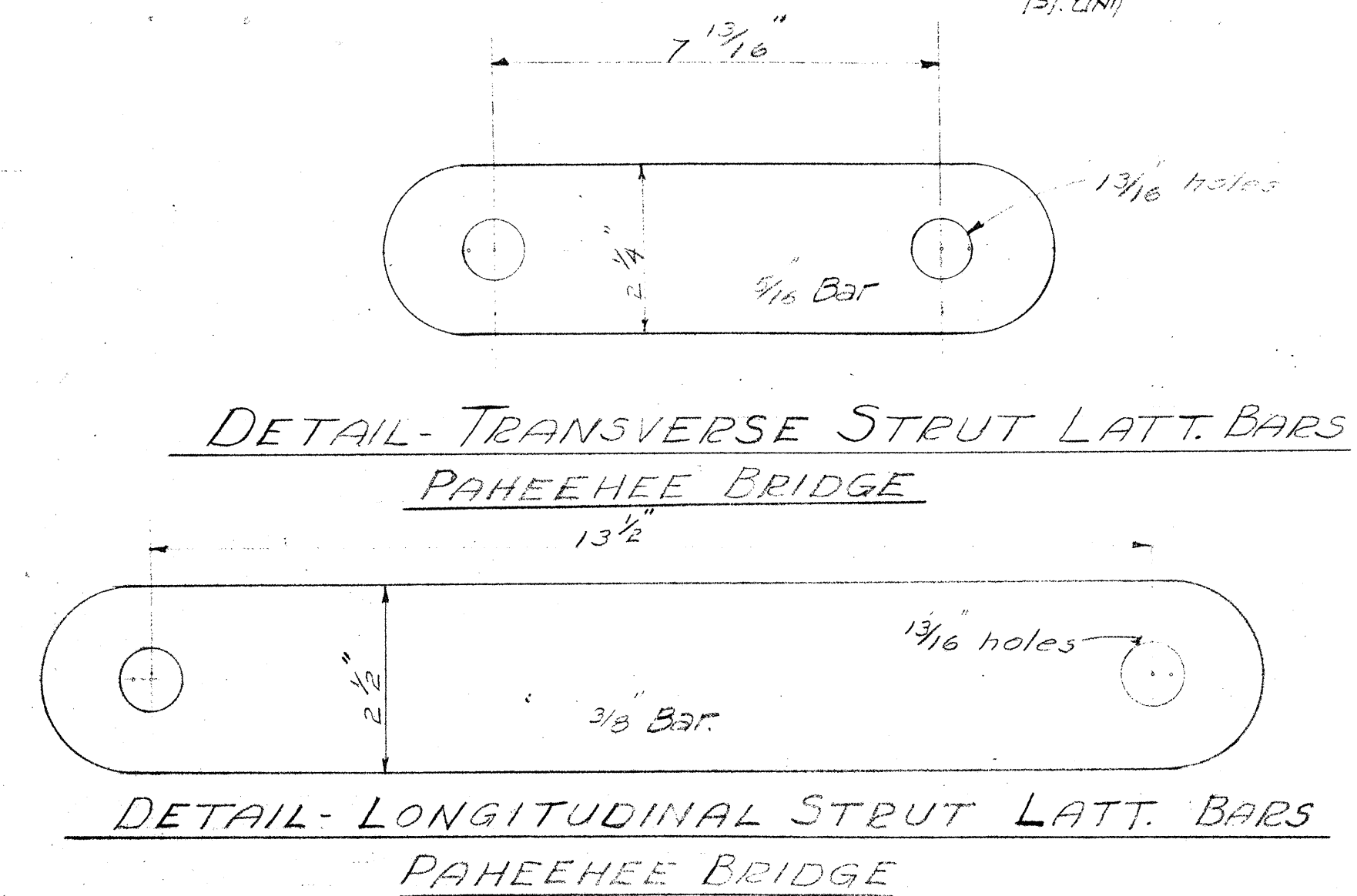
PLAN OF TOP STRUT

$$\frac{3}{4}'' = 1 \text{ Ft.}$$


SECTION A-A

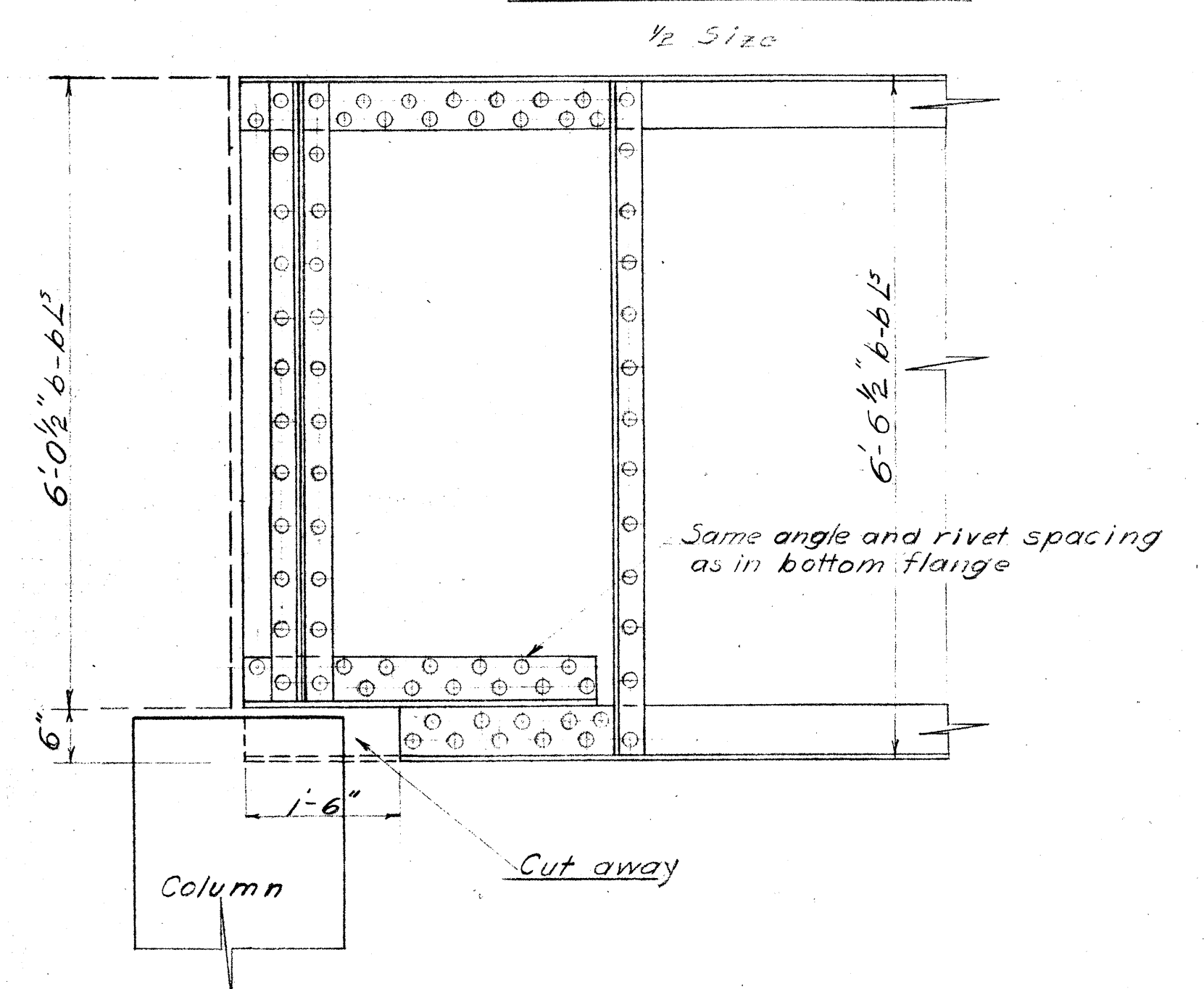
$$1\frac{1}{2}'' = 1 Ft.$$


SECTION B-B

$$1\frac{1}{2}'' = 1 \text{ Ft.}$$


DETAIL- LONGITUDINAL STREUT LATT. BARS

PAHEEHEE BRIDGE



METHOD OF ADJUSTING ENDS OF 78" WEB
GIRDERS TO BE USED WITH 72" WEB GIRDERS

$$\frac{3}{4}'' = 1 Ft.$$

NOTE: Where a 78" web girder rests on an abutment, lower abutment seat 6" and use girder as is

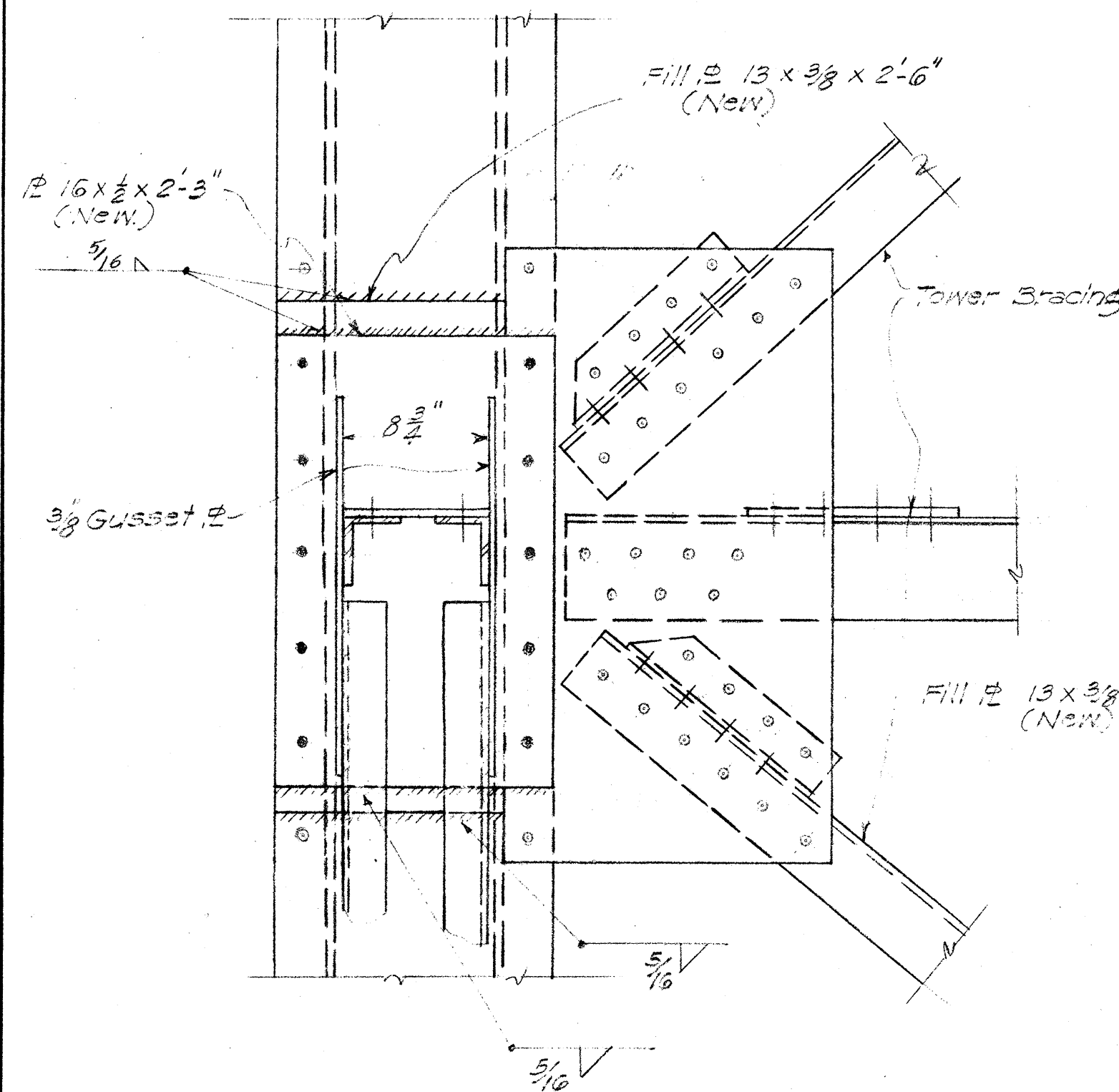
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

GENERAL DETAILS

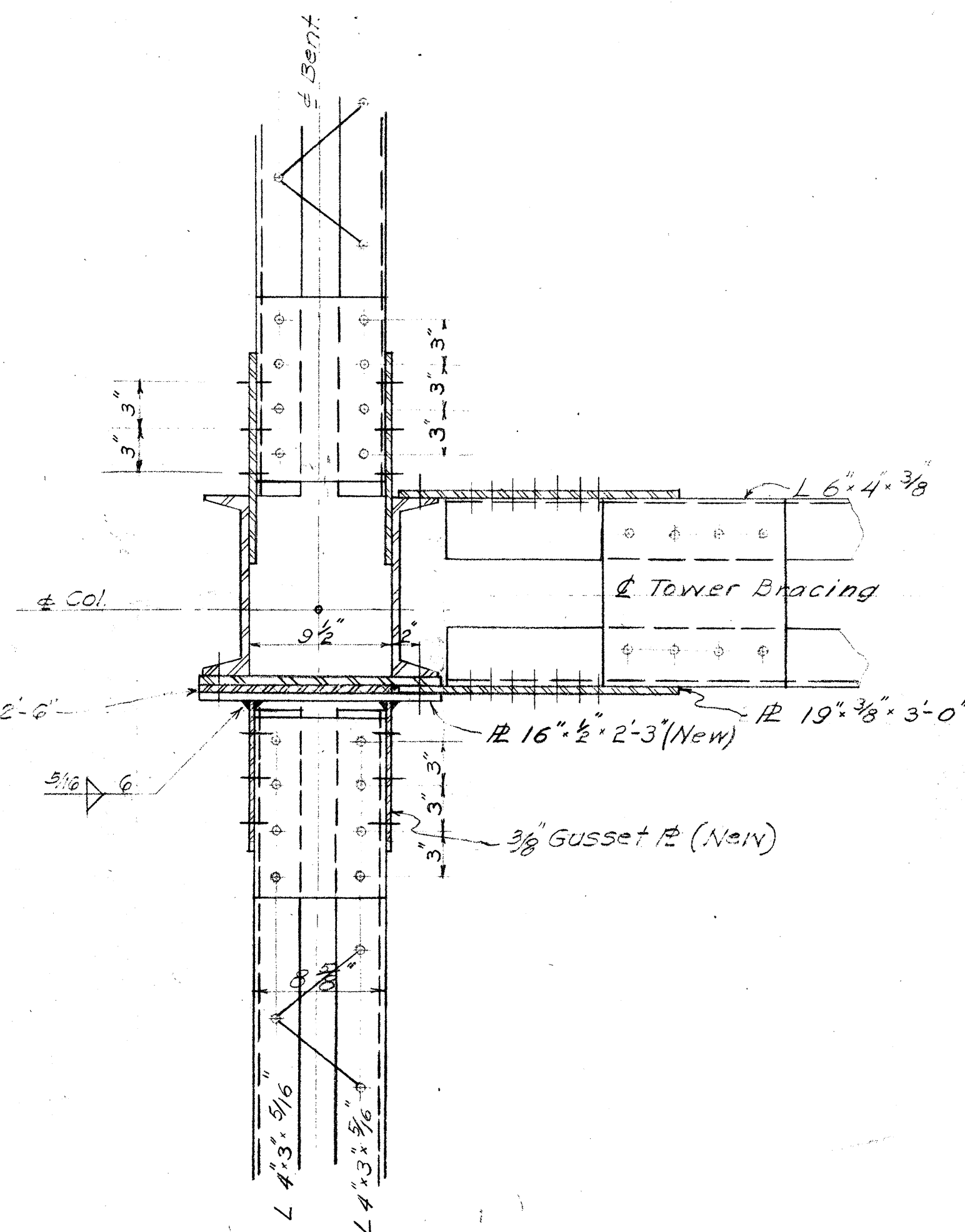
Hawaii Belt Road	SDR-3(9)
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April 1949

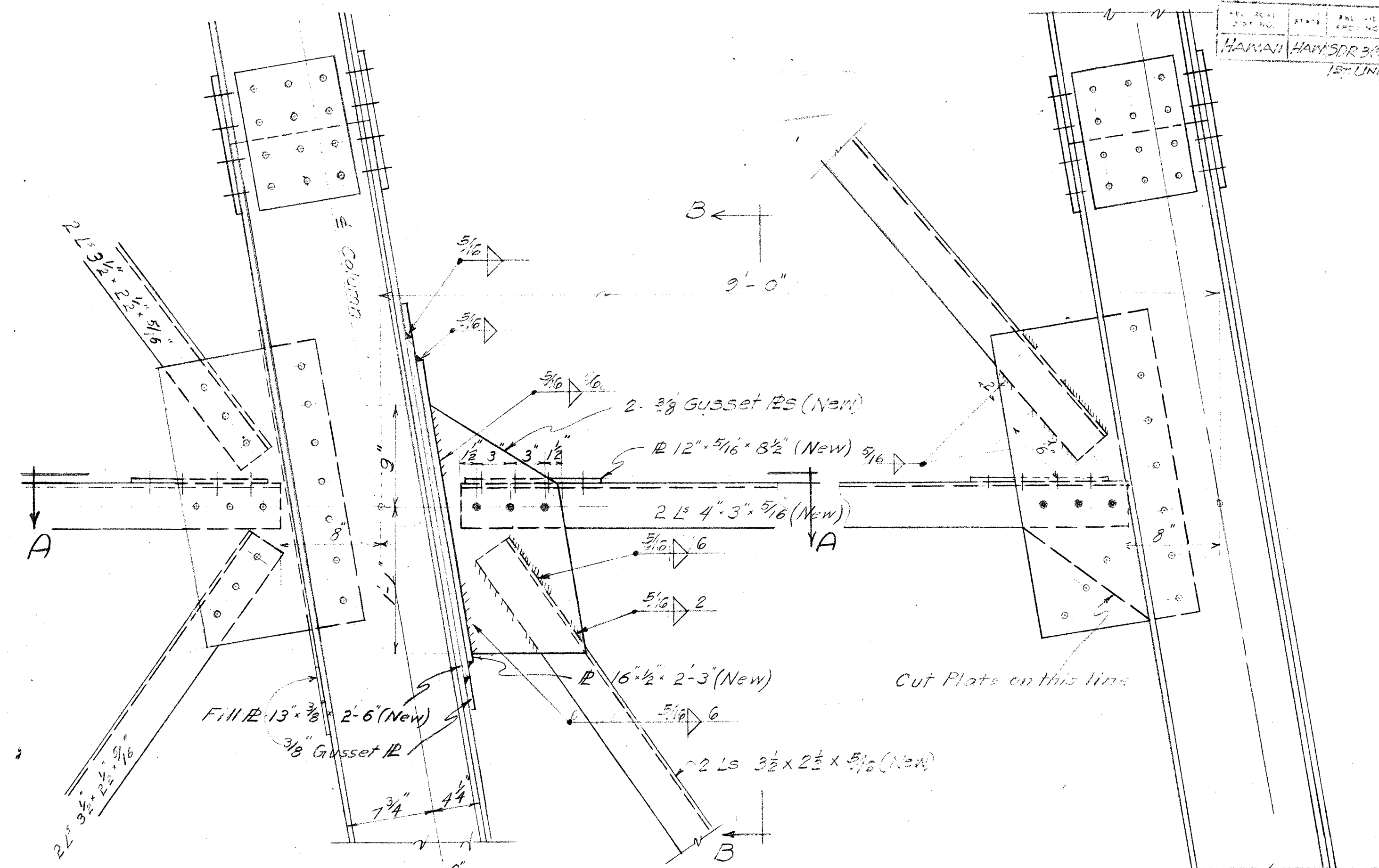
SHEET No. 7 OF 13 SHEETS



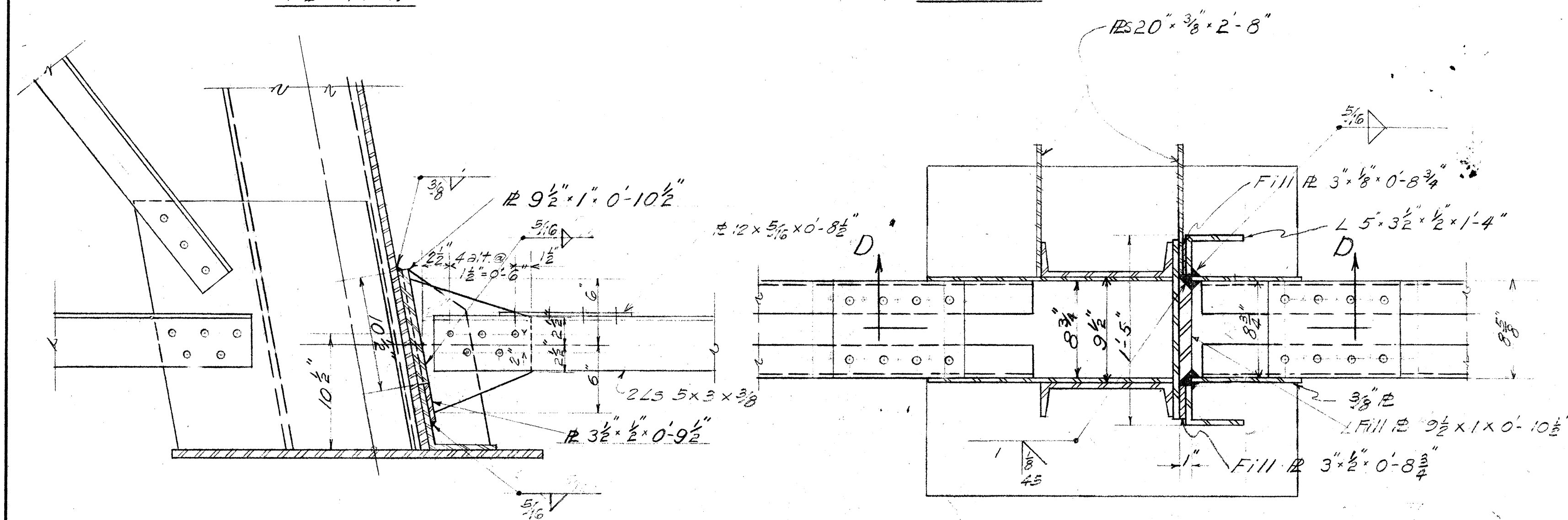
SECTION B-B

$$\underline{1\frac{1}{2}'' = 1 Ft.}$$


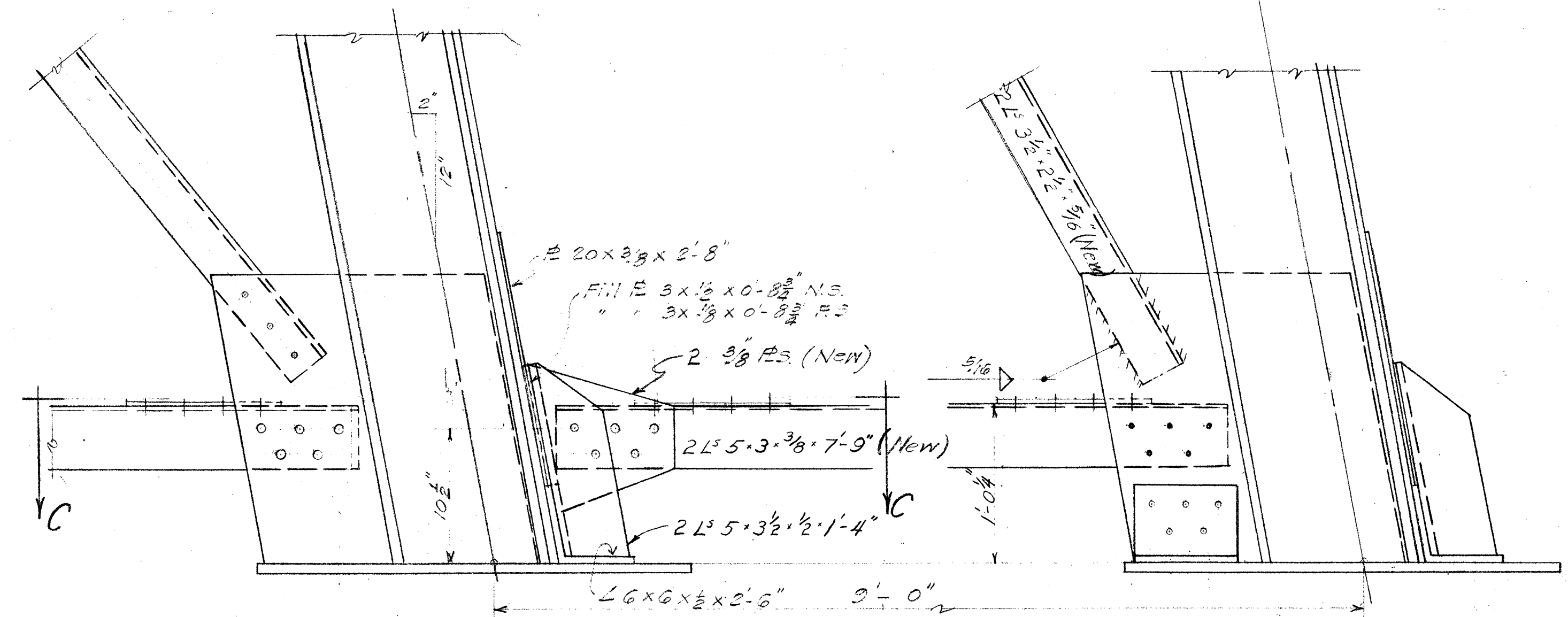
SECTION A-A

$$1\frac{1}{2}'' = 1Ft.$$


DETAIL OF INTERMEDIATE STRUT

$$1\frac{1}{2}'' = 1 Ft.$$


SECTION D-D

$$1\frac{1}{2}'' = 1 F t.$$


DETAIL OF BOTTOM STRUT

$$1\frac{1}{2}'' = 1 Ft.$$

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 TERRITORY OF HAWAII
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SHEET 8 OF 13

5415.15