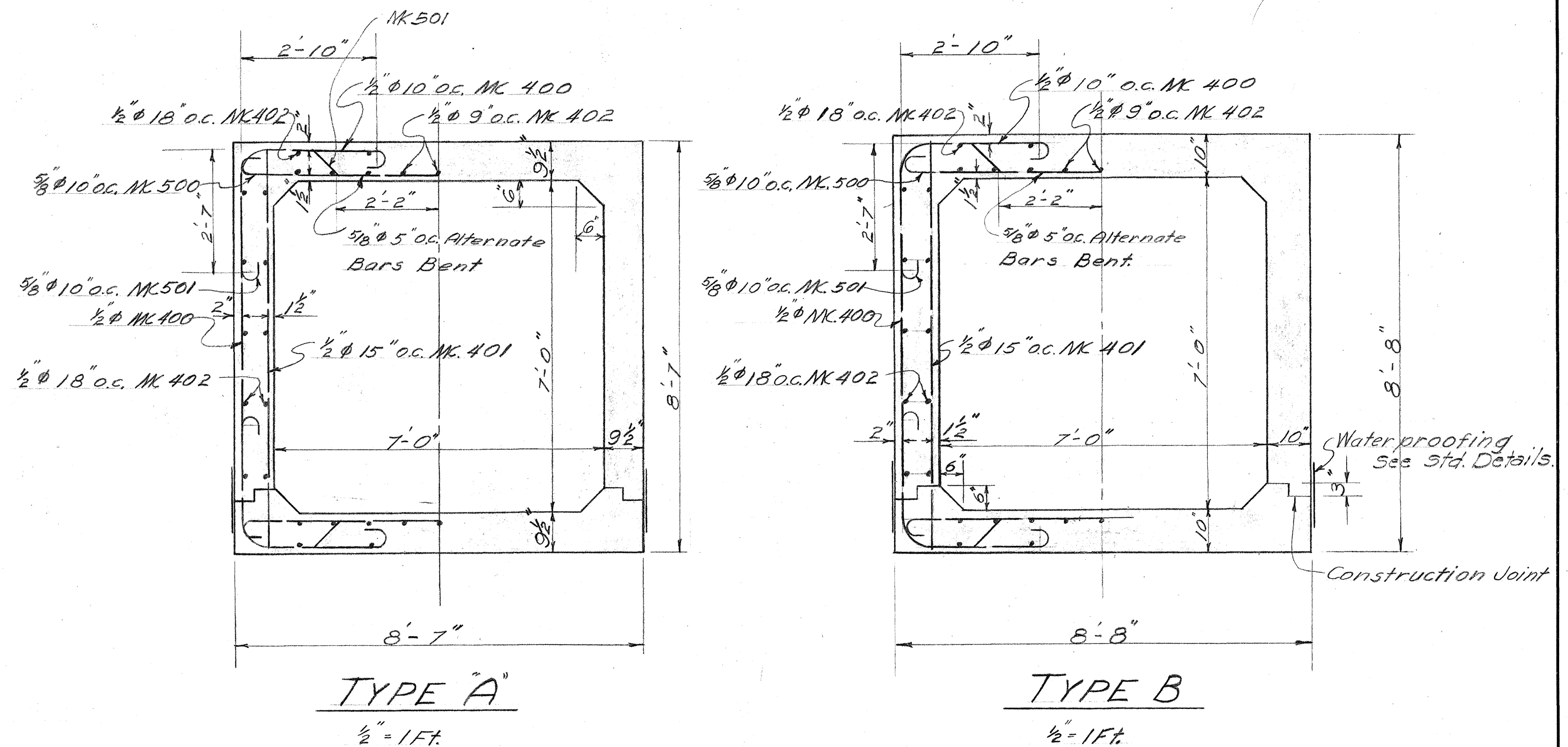
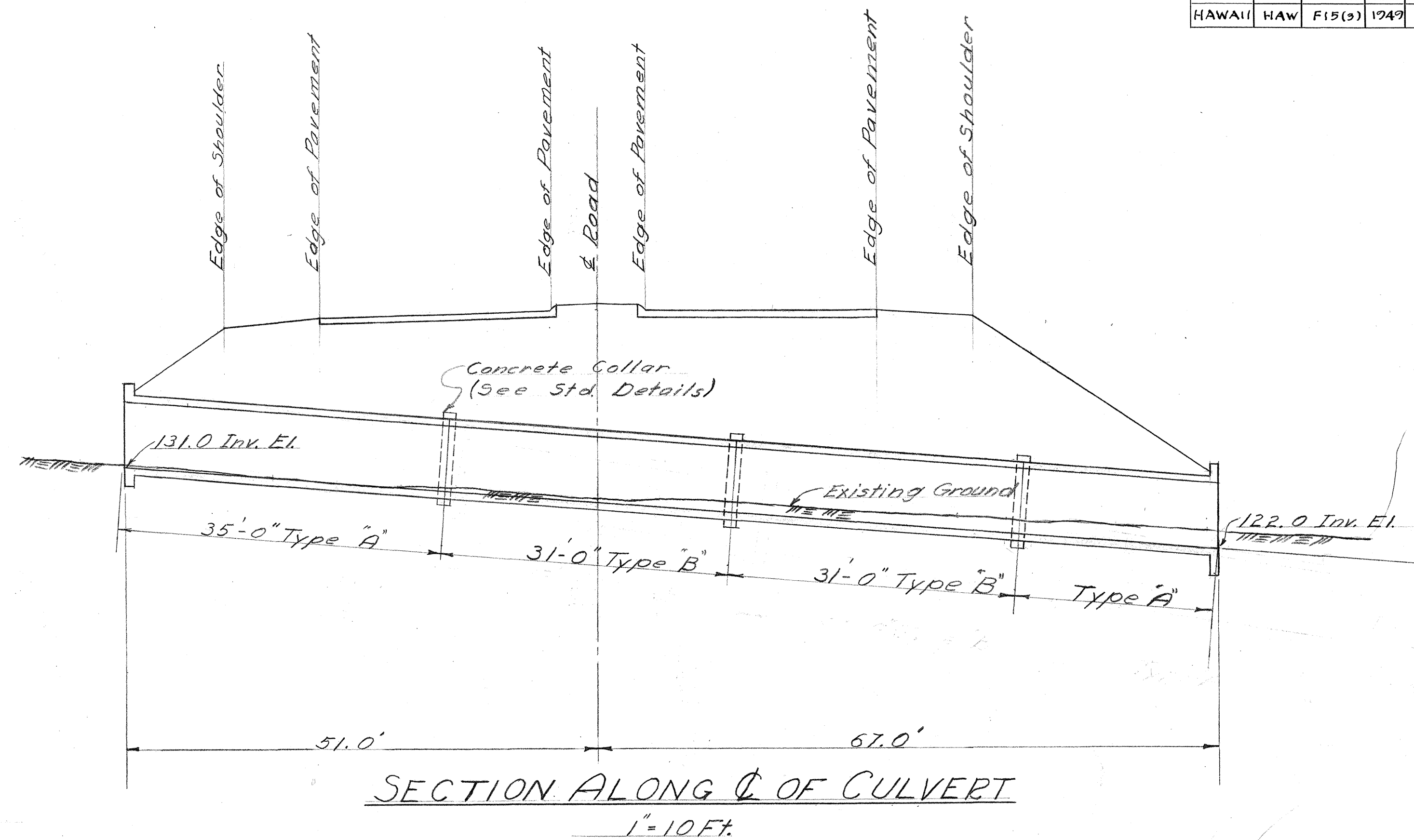
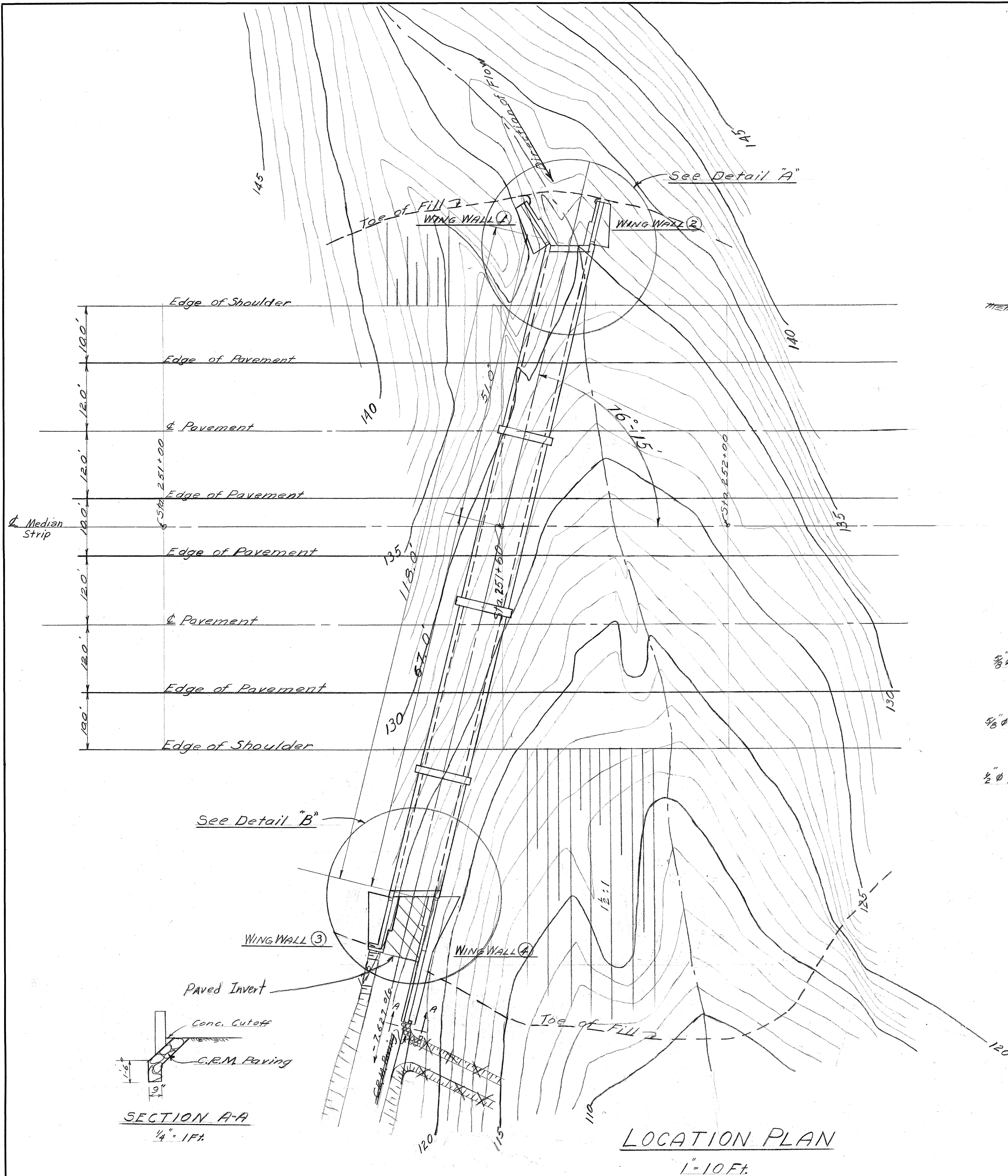




ESTIMATED QUANTITIES	
Channel Excavation	40.3 cu. yd.
Structure Excavation	49.3 cu. yd.
Class A-1 Concrete	135 cu. yd.
Reinforcing Steel	16363 #
C.R.M. Paving	2.6 cu. yd.

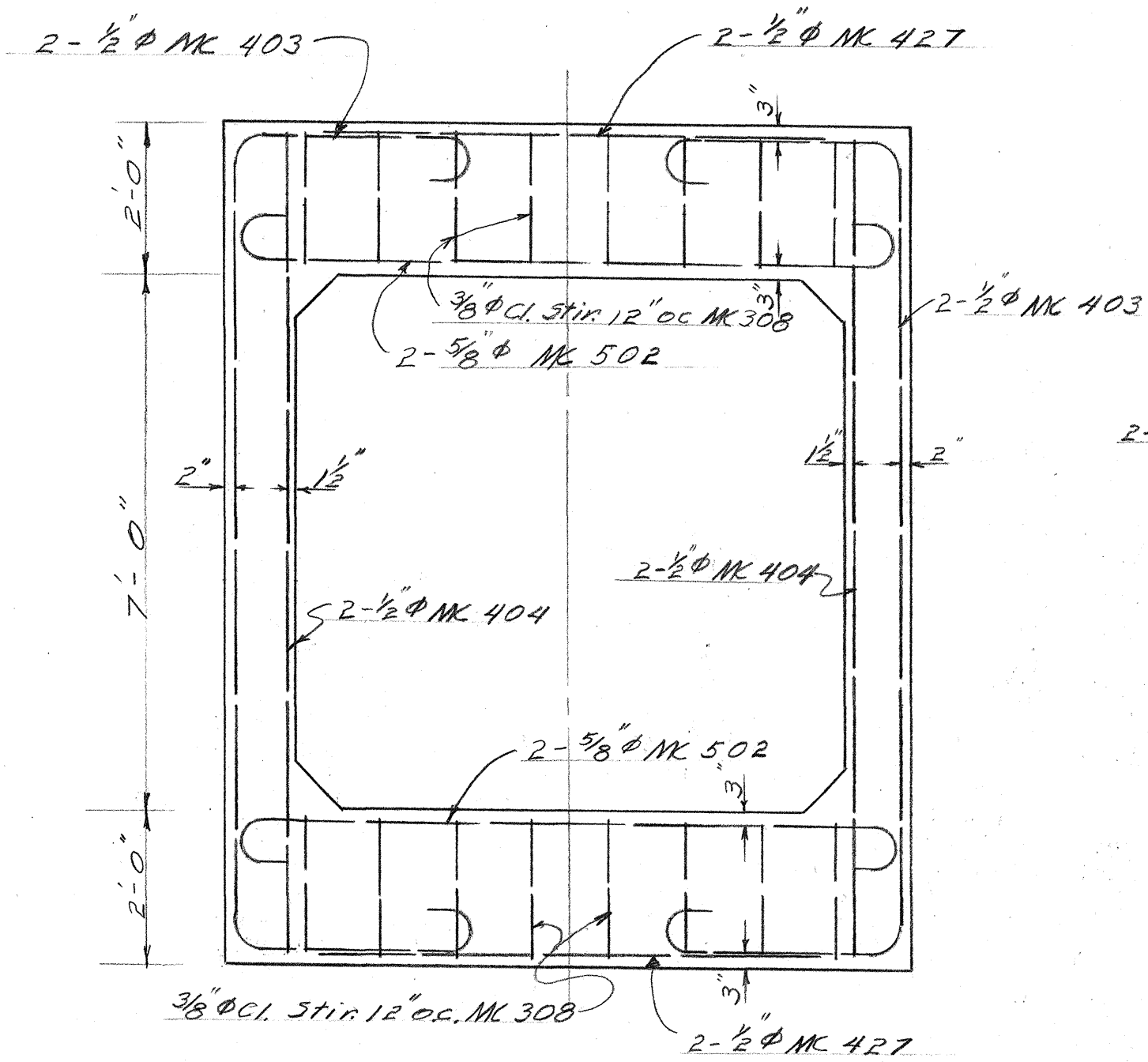
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
CATTLE PASS
7'x7' BOX CULVERT
Sta 251+60
F15(3)
August 1949

SHEET No. 1 OF 2 SHEETS

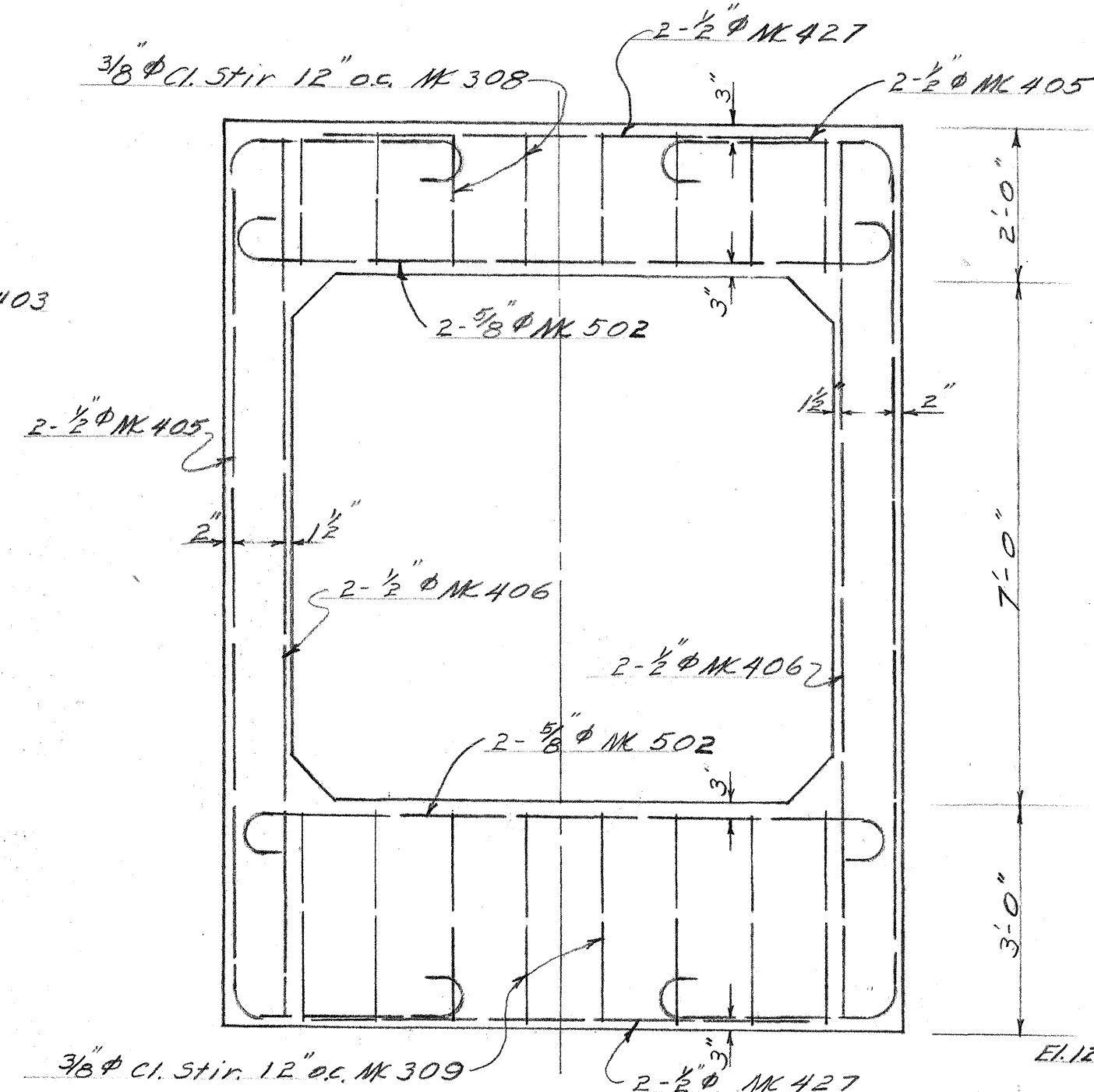
5436.16

ORIGINAL PLAN
DESIGNED BY M.A. BETHUNE
TRACED BY M.A. BETHUNE
QUANTITIES CHECKED BY M.A. BETHUNE
CHECKED BY M.A. BETHUNE
DATE 8/15/49
NOTE BOOK No.

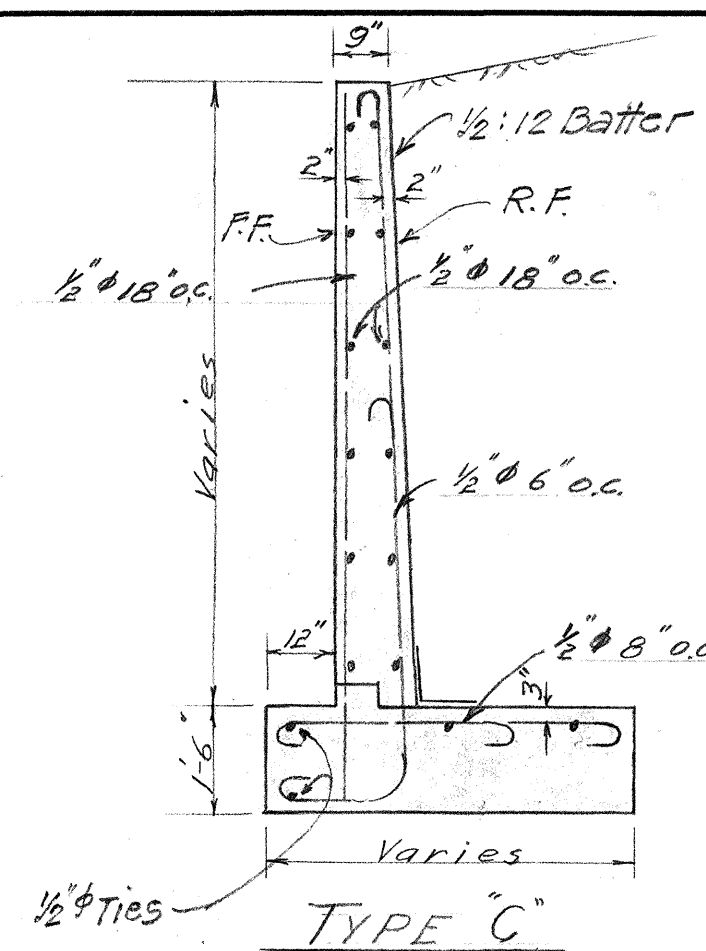
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-15 (3)	1949	17	69



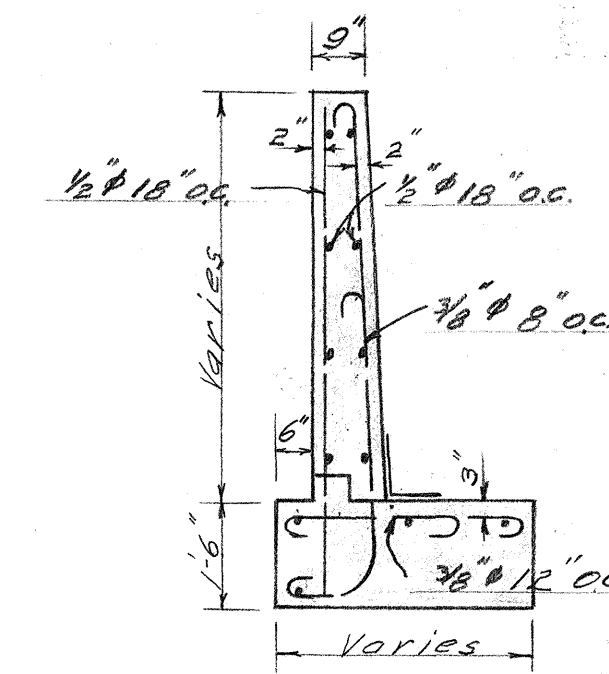
HEADWALL ELEV. INTAKE

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


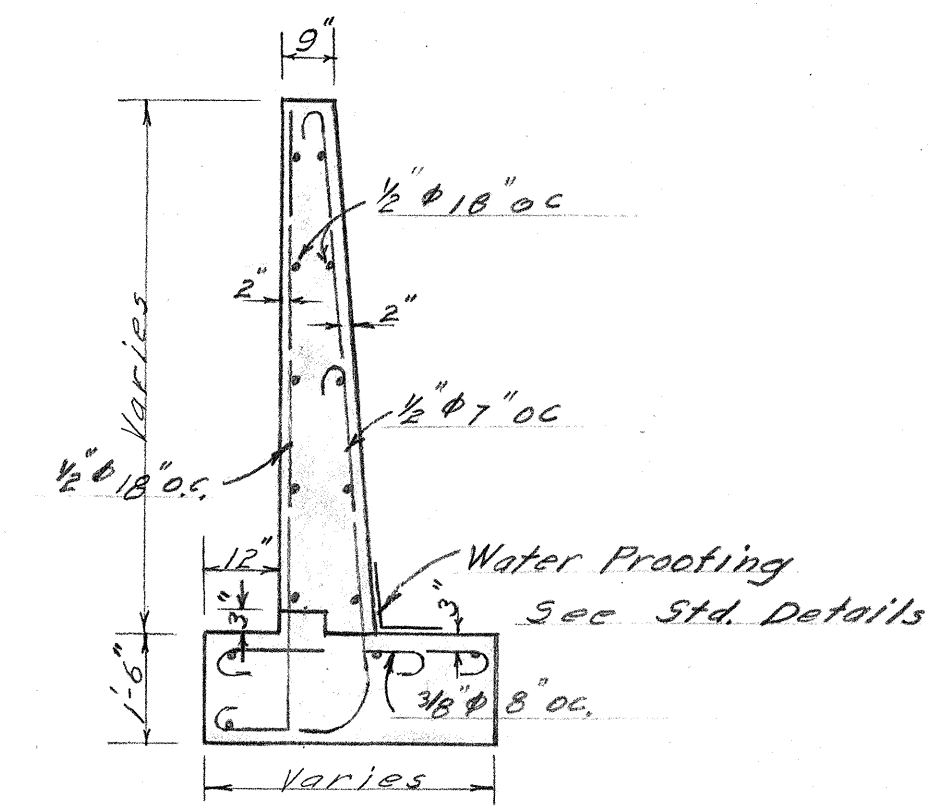
HEADWALL ELEV. OUTLET

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


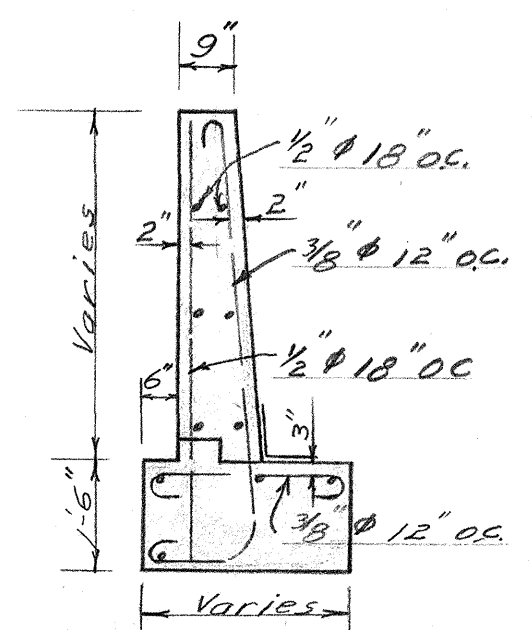
TYPE "C"
 $\frac{3}{8}" = 1F4$



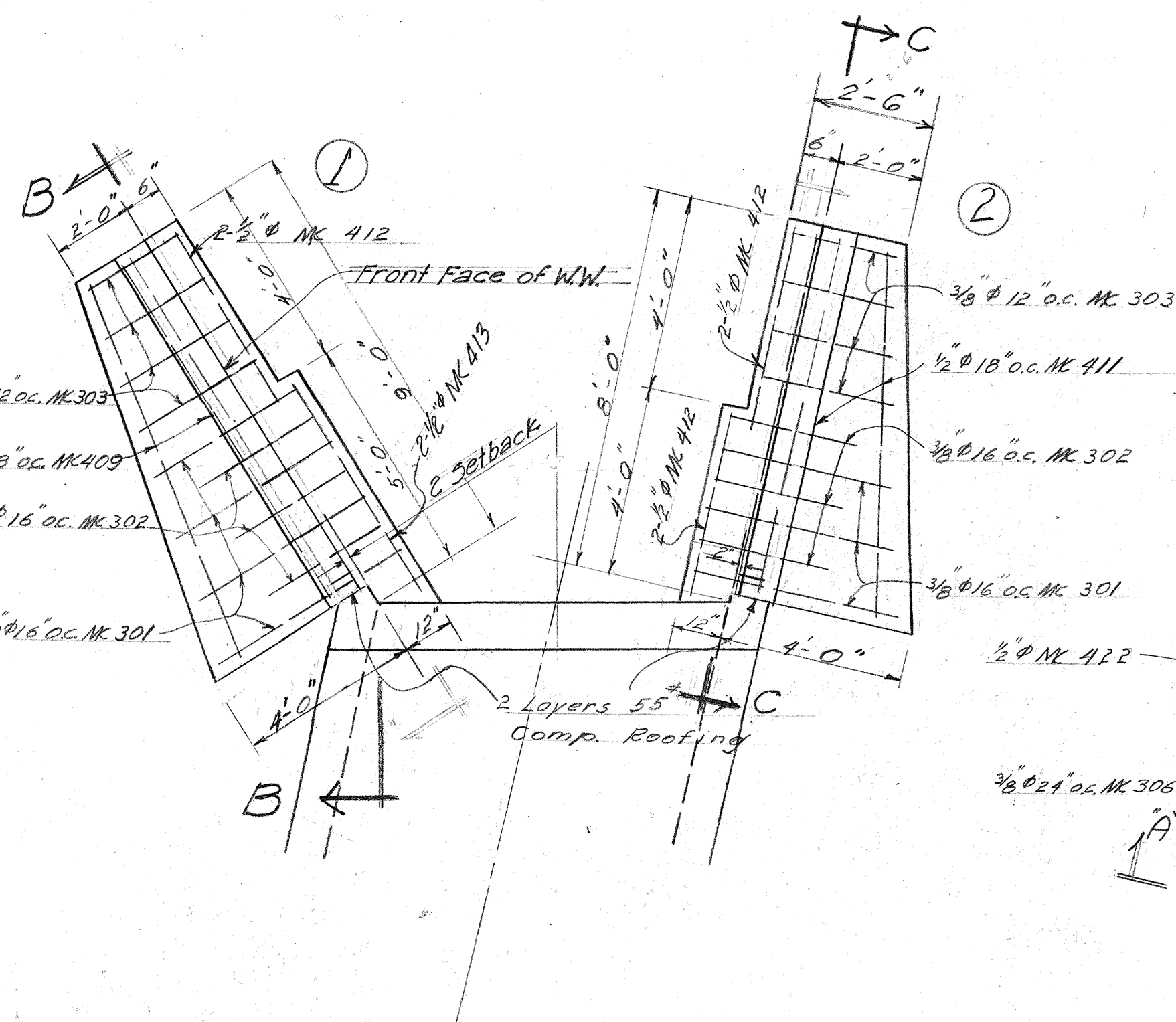
TYPE "D"
3/8" = 1 ft



TYPE "A"
3/8" = 1 FT

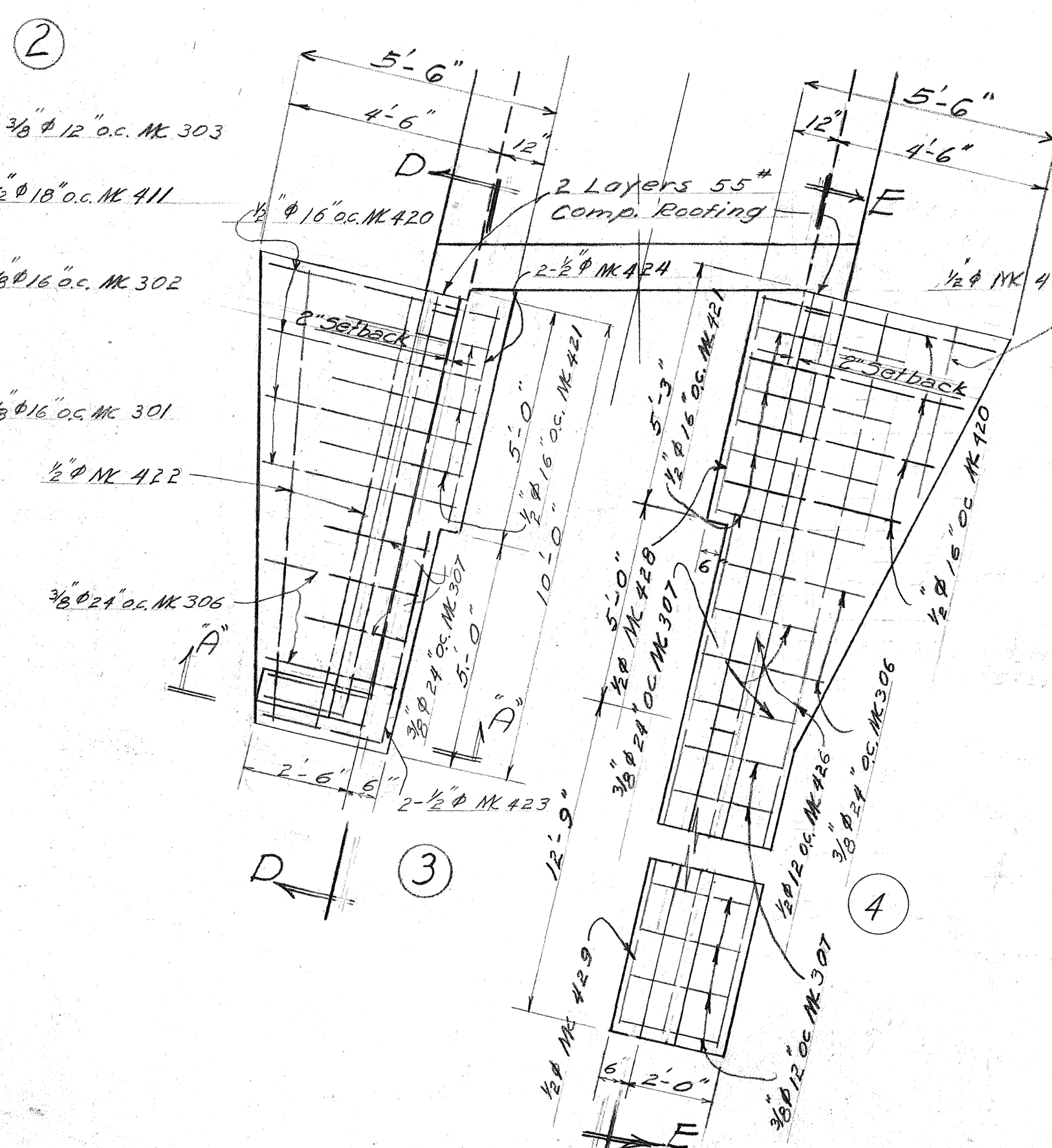


TYPE B
3/8" = 1 ft.

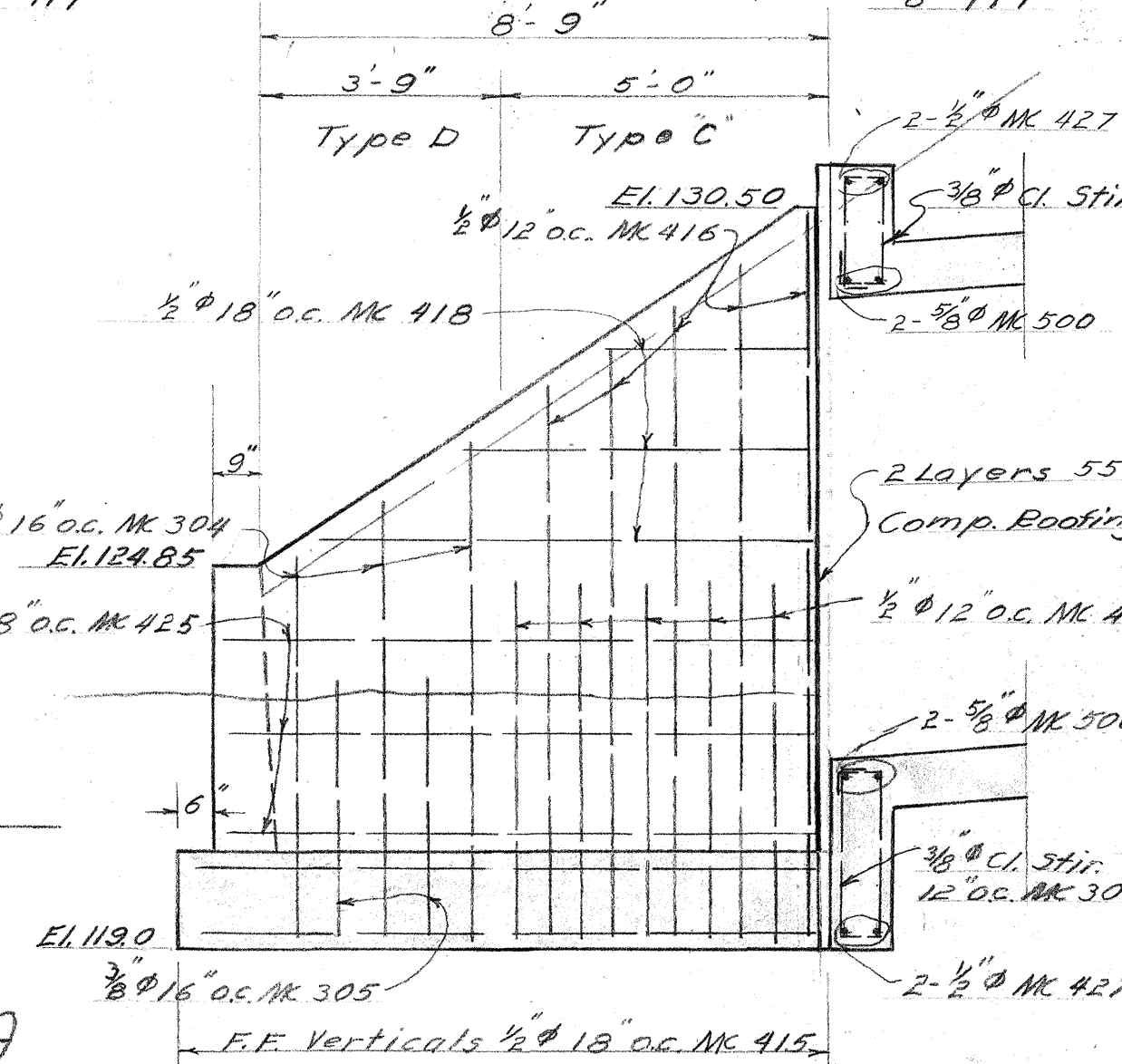


DETAIL "A"

3/8" - 1 Ft.

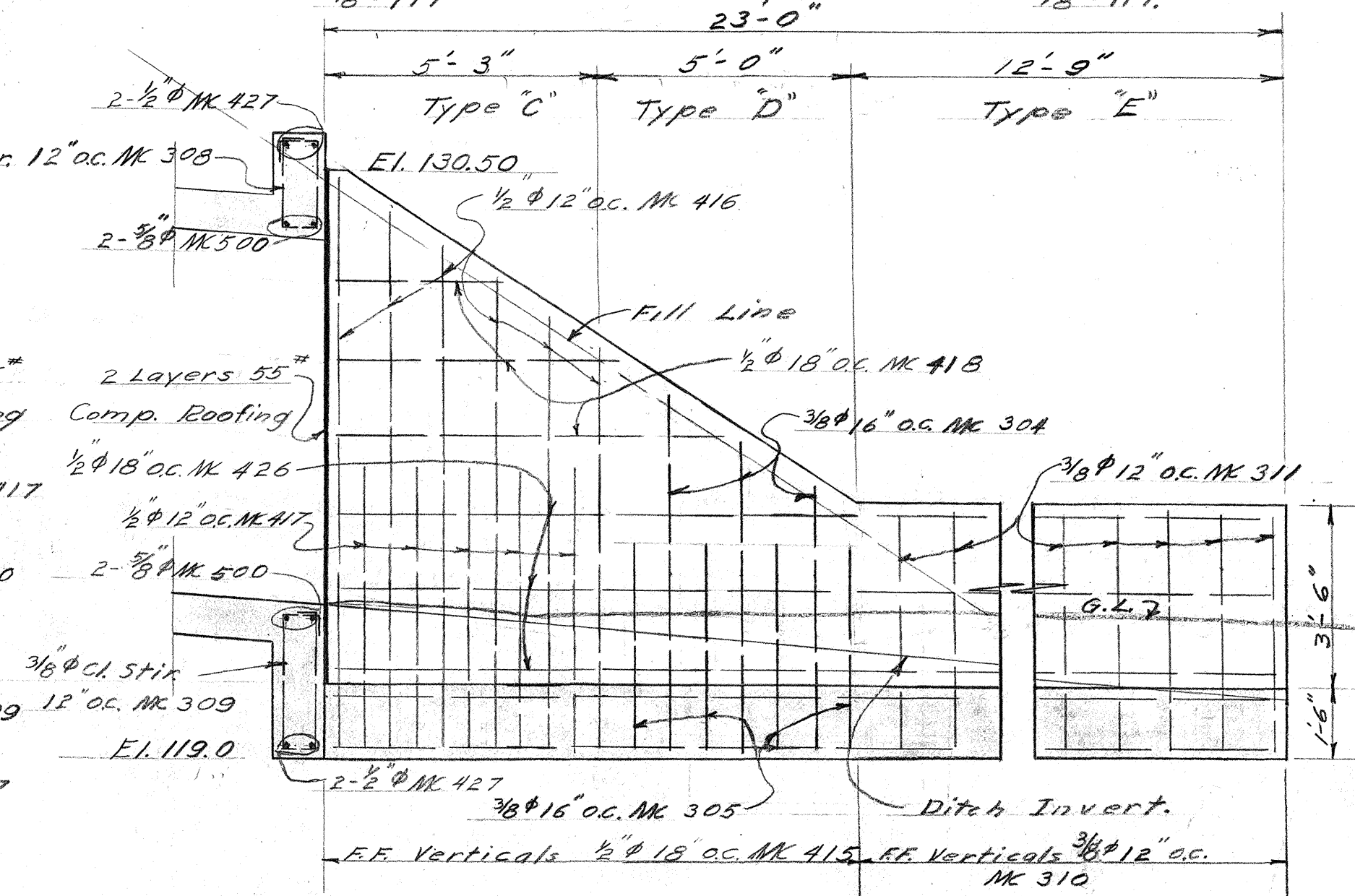


SECTION A-A

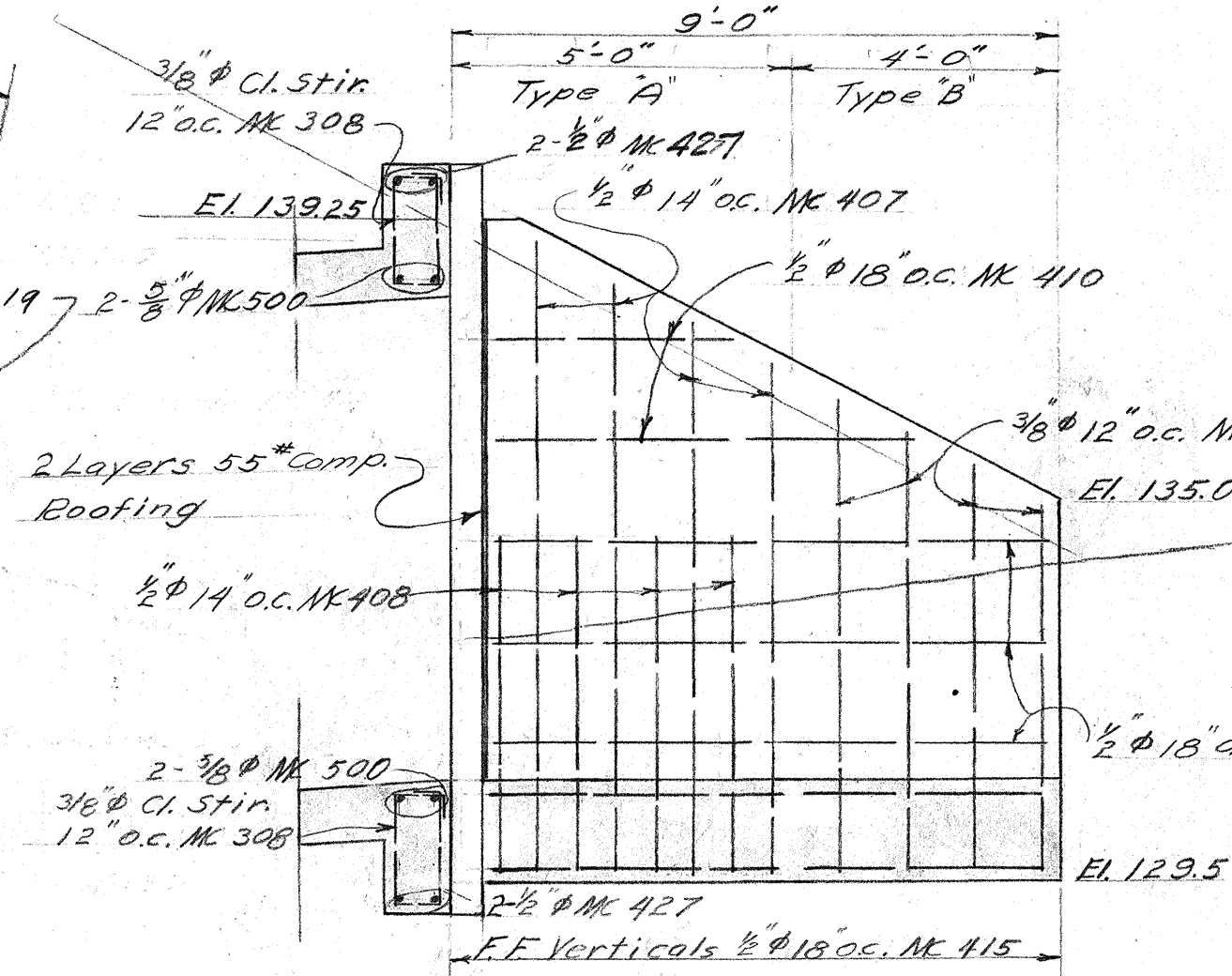


SECTION WING WALL ③

D-4

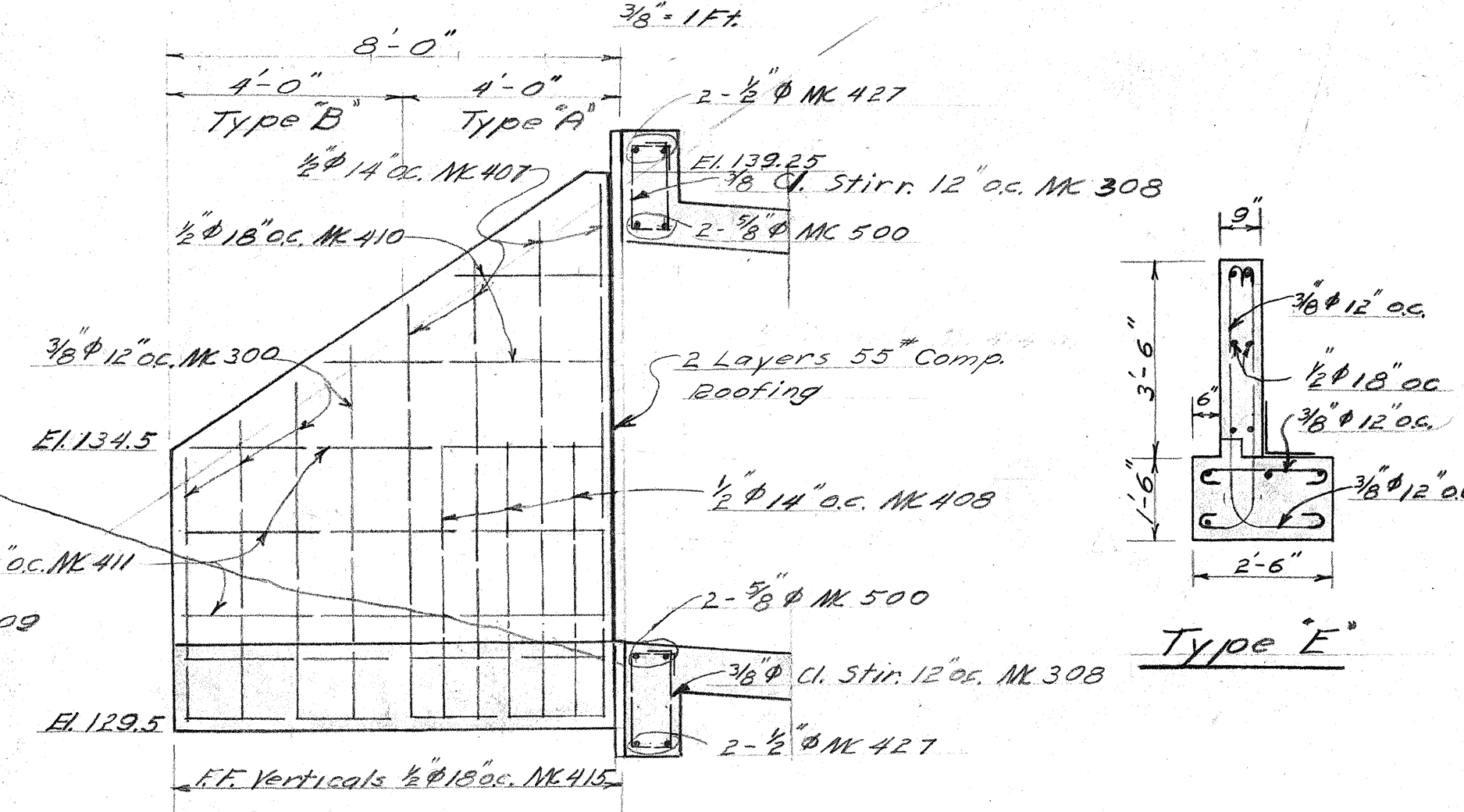


SECT. ~~E-E~~ WING WALL (4)



SECTION WING WALL ①

B - B



SECTION WING WALL ②

C-C

Type E

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
CATTLE PASS
7*7 BOX CULVERT
Sta 251+60

F15(3)

August 1949

SHEET No. 2 OF 2 SHEETS

5436.17