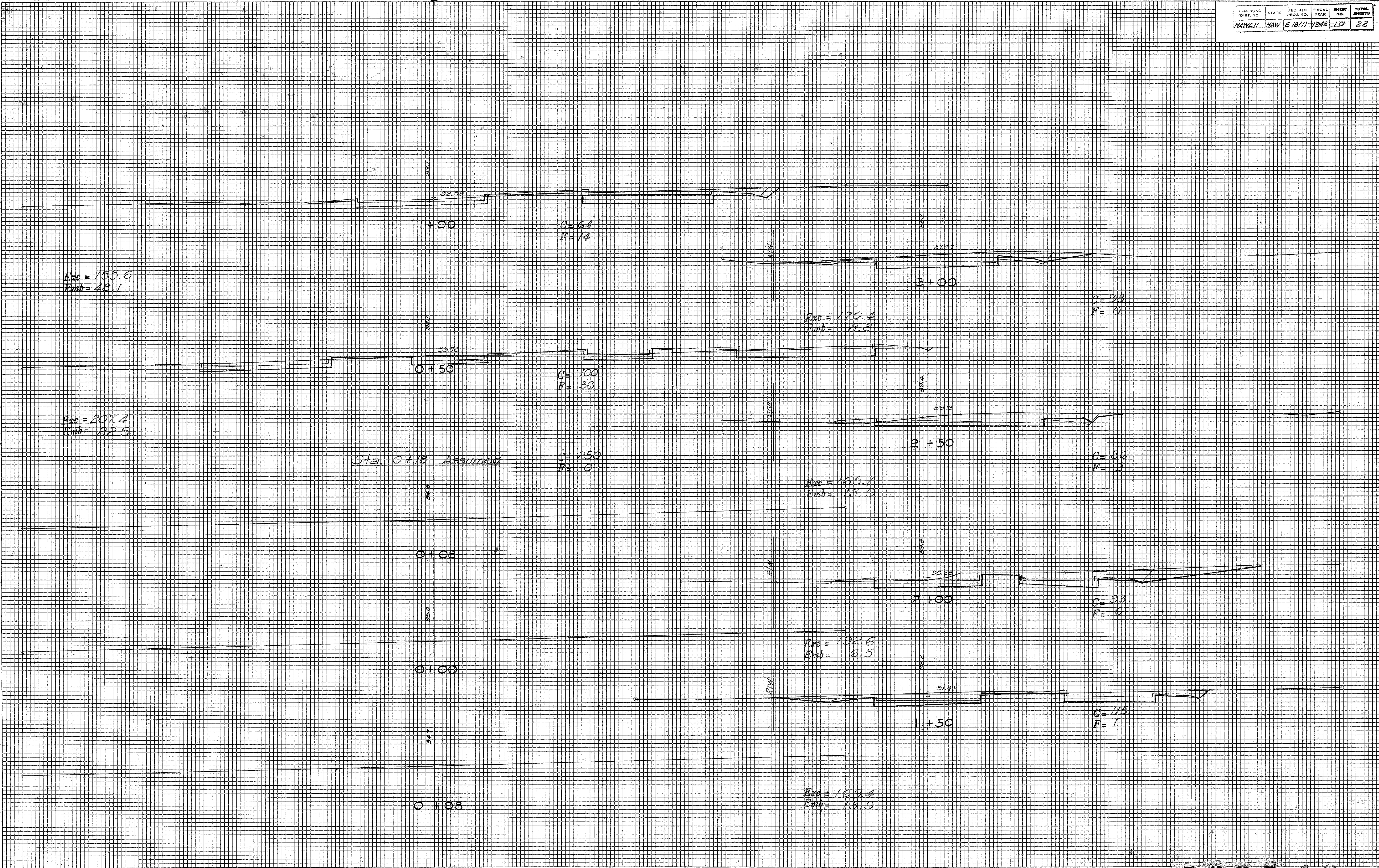


FINAL SURVEY	SURVEY	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEY	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		

Correction Noted May 17, 1949

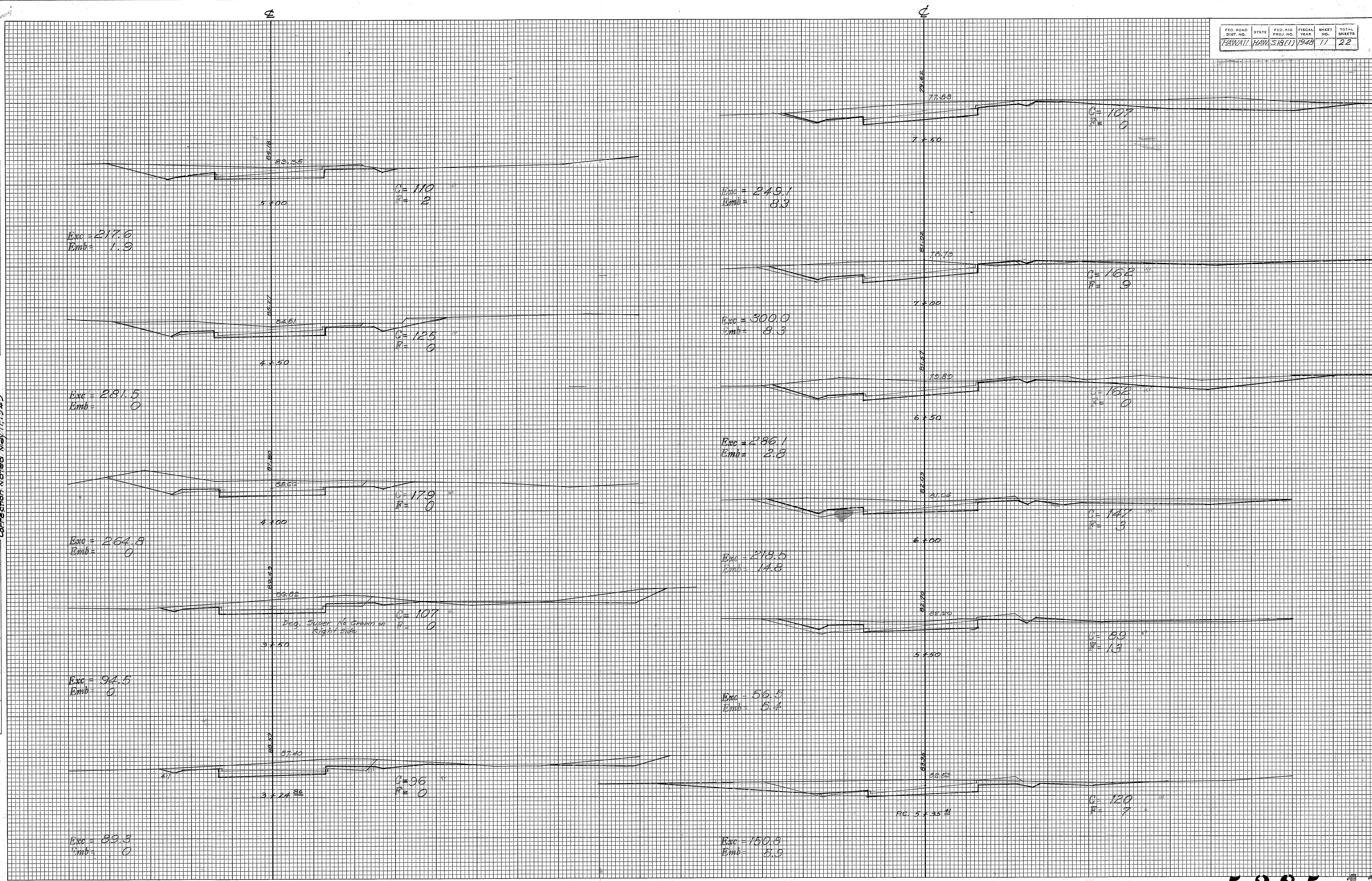


FINAL SURVEY NOTE BOOK NO.	DATE	BY

ORIGINAL SURVEY NOTE BOOK NO.	DATE	BY

Correction Noted May 17, 1949

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	S18(1)	1948	11	22

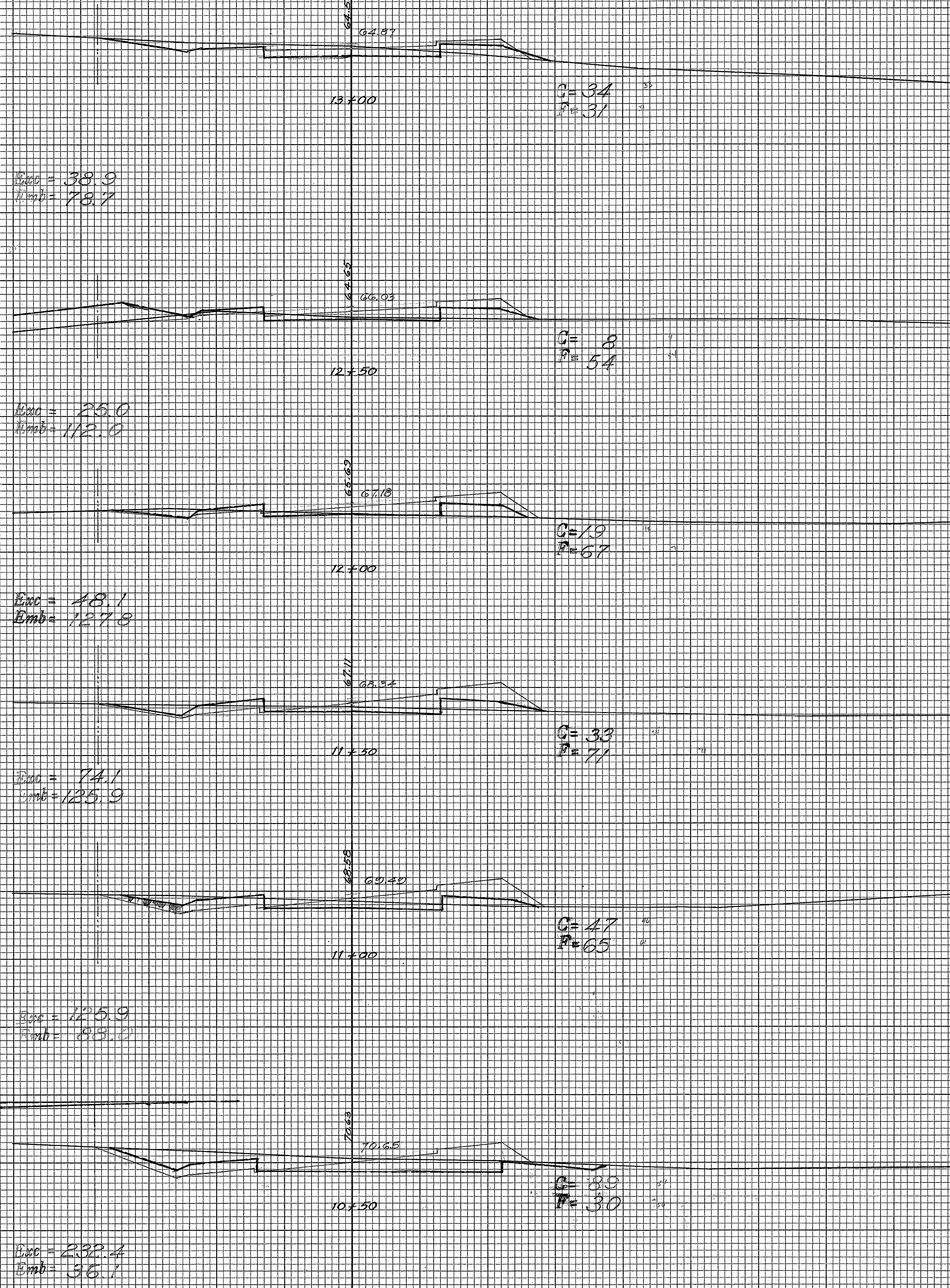


FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	

Correction Noted May 17, 1949

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII/HAW	518(1)	1949	12	22	

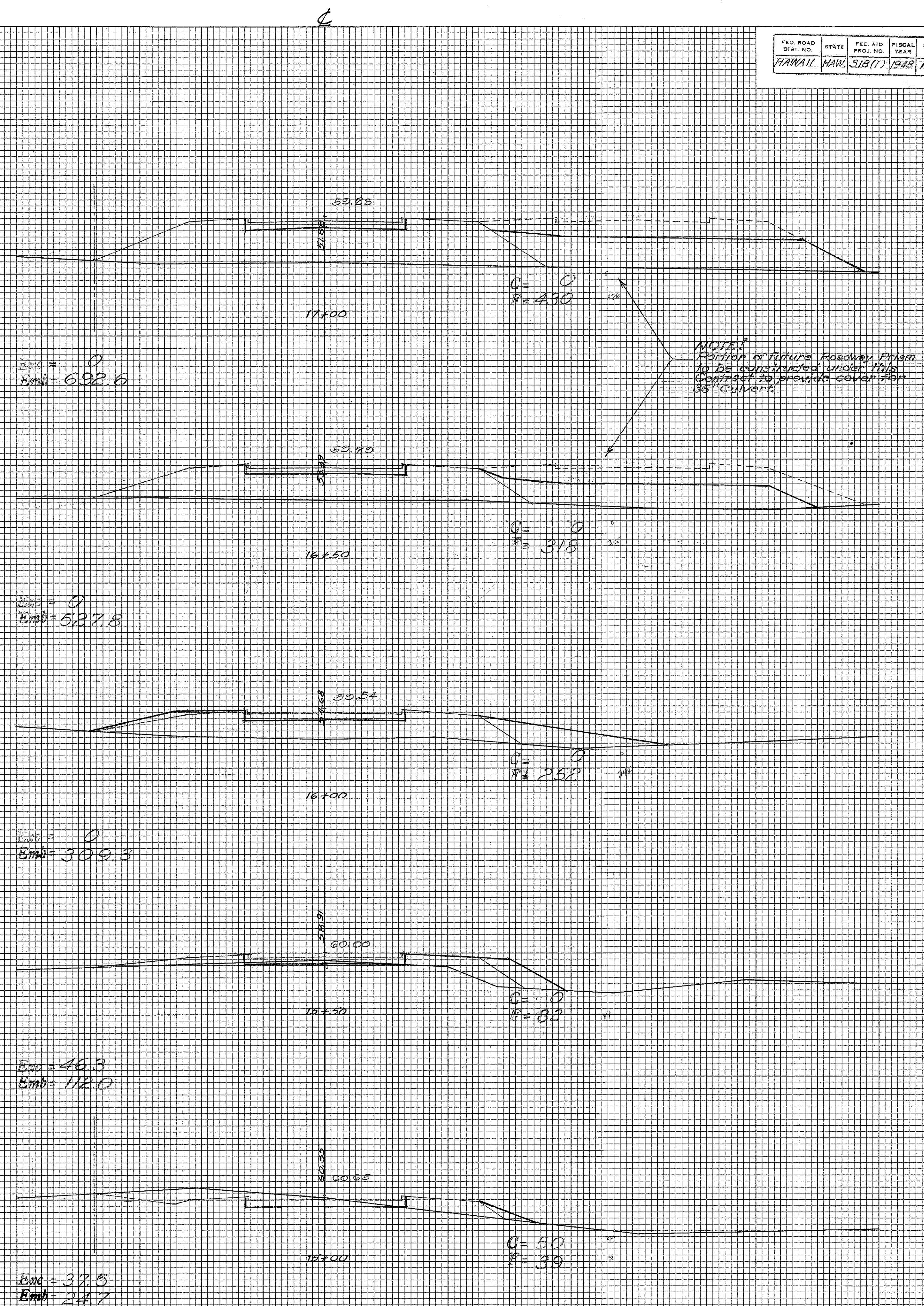
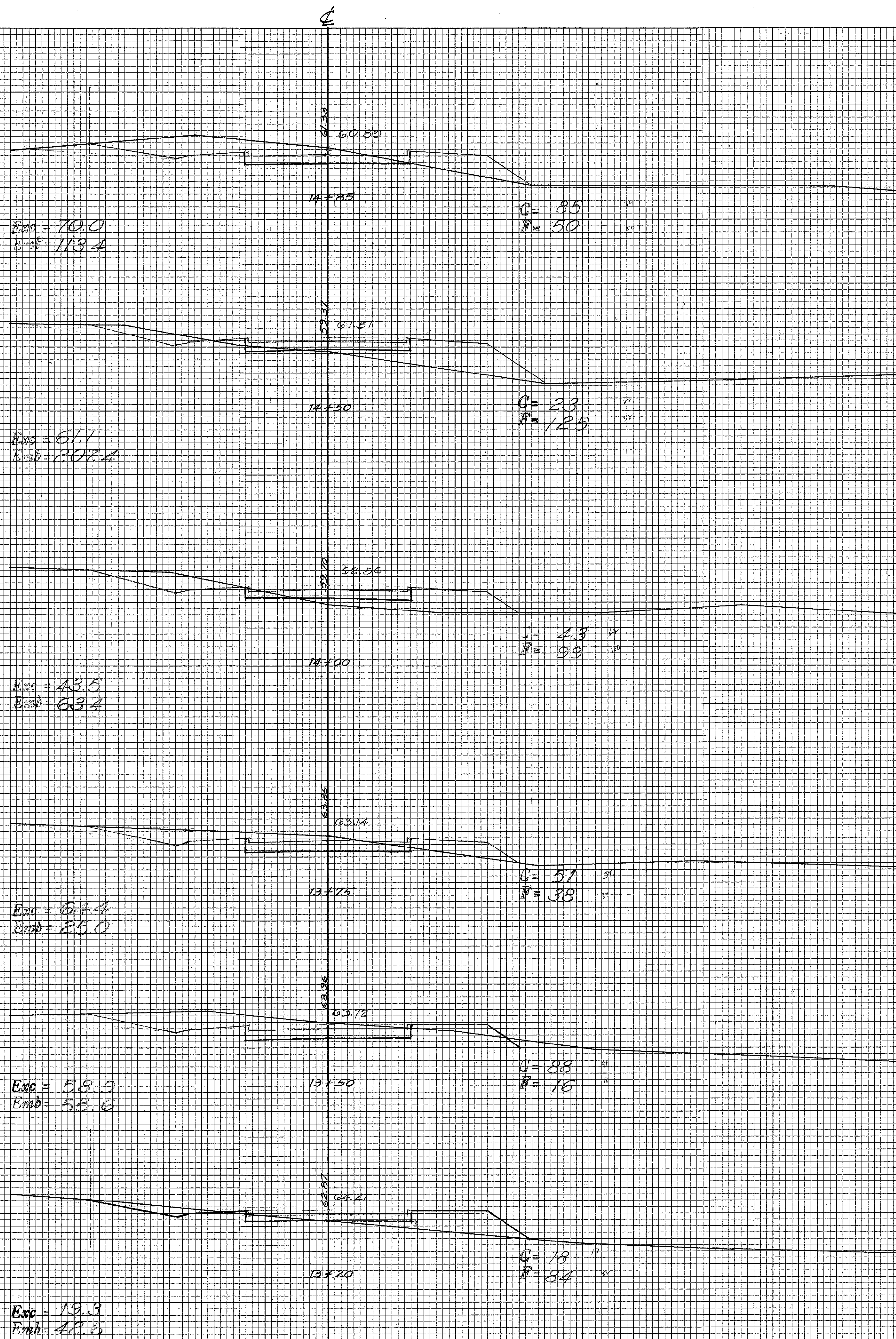


FINAL SURVEY	SUPERVISOR PLOTTED	DATE
NO.	AREAS CHECKED	BY

ORIGINAL SURVEY	SUPERVISOR PLOTTED	DATE
NO.	AREAS CHECKED	BY

Correction Noted May 17, 1942

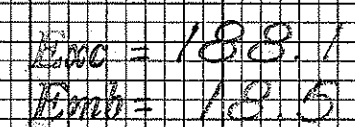
FED. ROAD DIST. NO.	STATE	FED. AID FUND. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	518(1)	1942	13	22



FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

Correction Noted May 17, 1949

ORIGINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED		T. A. M. J.	4/2/88
TEMPLATE			
AREAS			
AREAS CHECKED		J. R. I.	4/13/88
NO.		J. R. I.	4/13/88



19700

$\frac{1}{2} \times 120 = 60$
 $72 - 60 = 12$

 18×60

134	10
21	11

Exc = 54.8
T_{amb} = 3.9

67

$C = 162$
 $R = 0$

 18×50
$$\begin{aligned} E_{\text{asc}} &= 245.4 \\ T_{\text{mod}} &= 20.4 \end{aligned}$$

38

$$\frac{Q_V}{T_b} = 10.3 \quad \text{141}$$

$$\frac{Q_V}{T_b} = 2.2 \quad \text{38}$$
18. 100
$$E_{MC} = 95.4$$

$$F_{mb} = 432.4$$

53

$$\begin{aligned} Q_1 &= 0 \\ P_1 &= 445 \end{aligned}$$
 $17 \neq 50$
$$\begin{aligned} E_{acc} &= 0 \\ E_{mb} &= 810.2 \end{aligned}$$

$E_{exc} = 2.3$
 $E_{mb} = 44.9$

 $21 \neq 50$

$C = 5$
 $F = 2$

 $21 \neq 25$

Eng = 14.8
Temp = 42.1

$\frac{1}{2} = 0.5$

21 + 00

$\epsilon_{mc} = 94.4$
 $\epsilon_{mb} = 1.9$

Q	32
R	2

 $20 \neq 50$

Exc = 12%
Emb = 0

$$C = 70$$
$$F = 0$$

20 * 00

Exo = 159.
Kemb = 4.

$$C = 61$$
$$R = 0$$

197.50

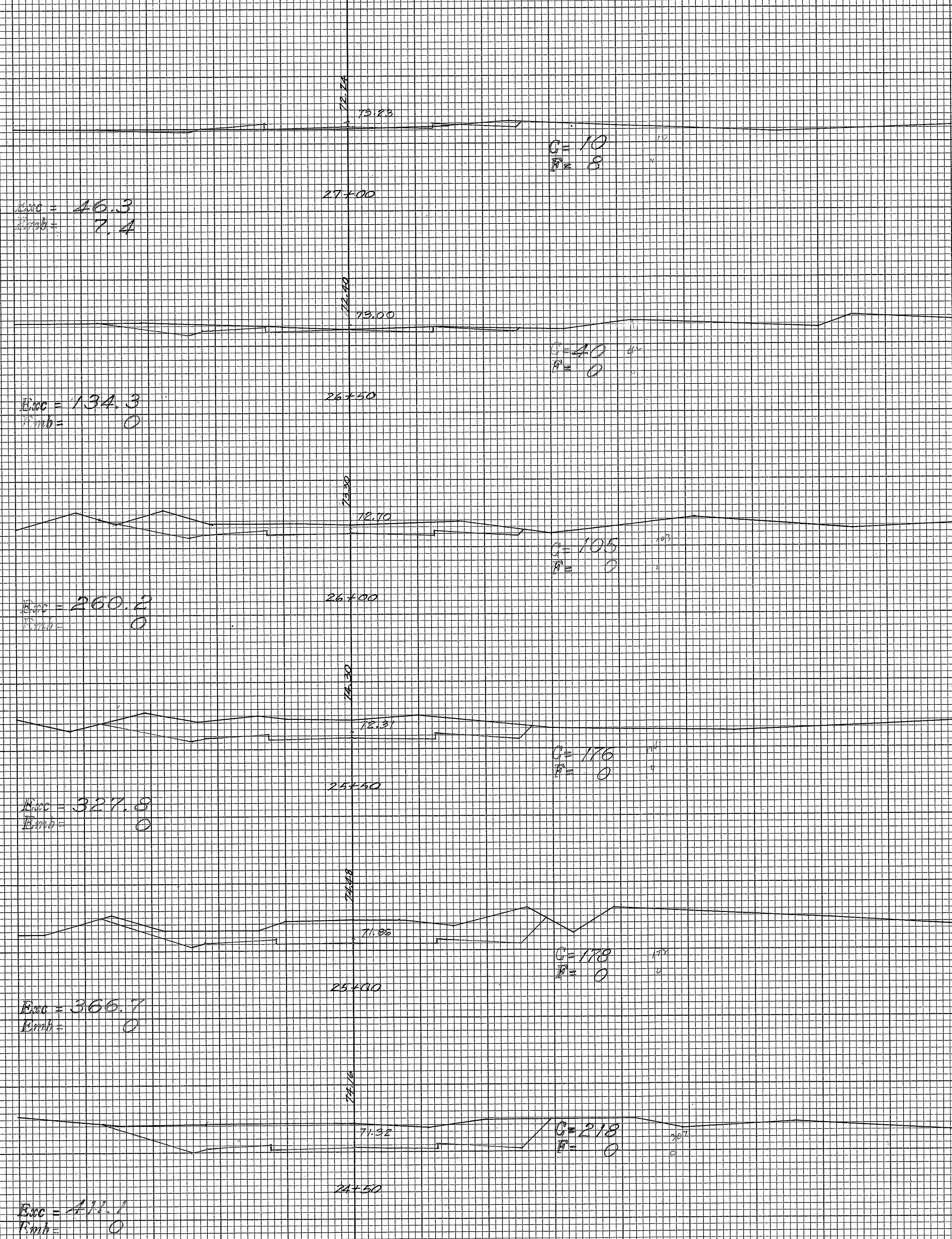
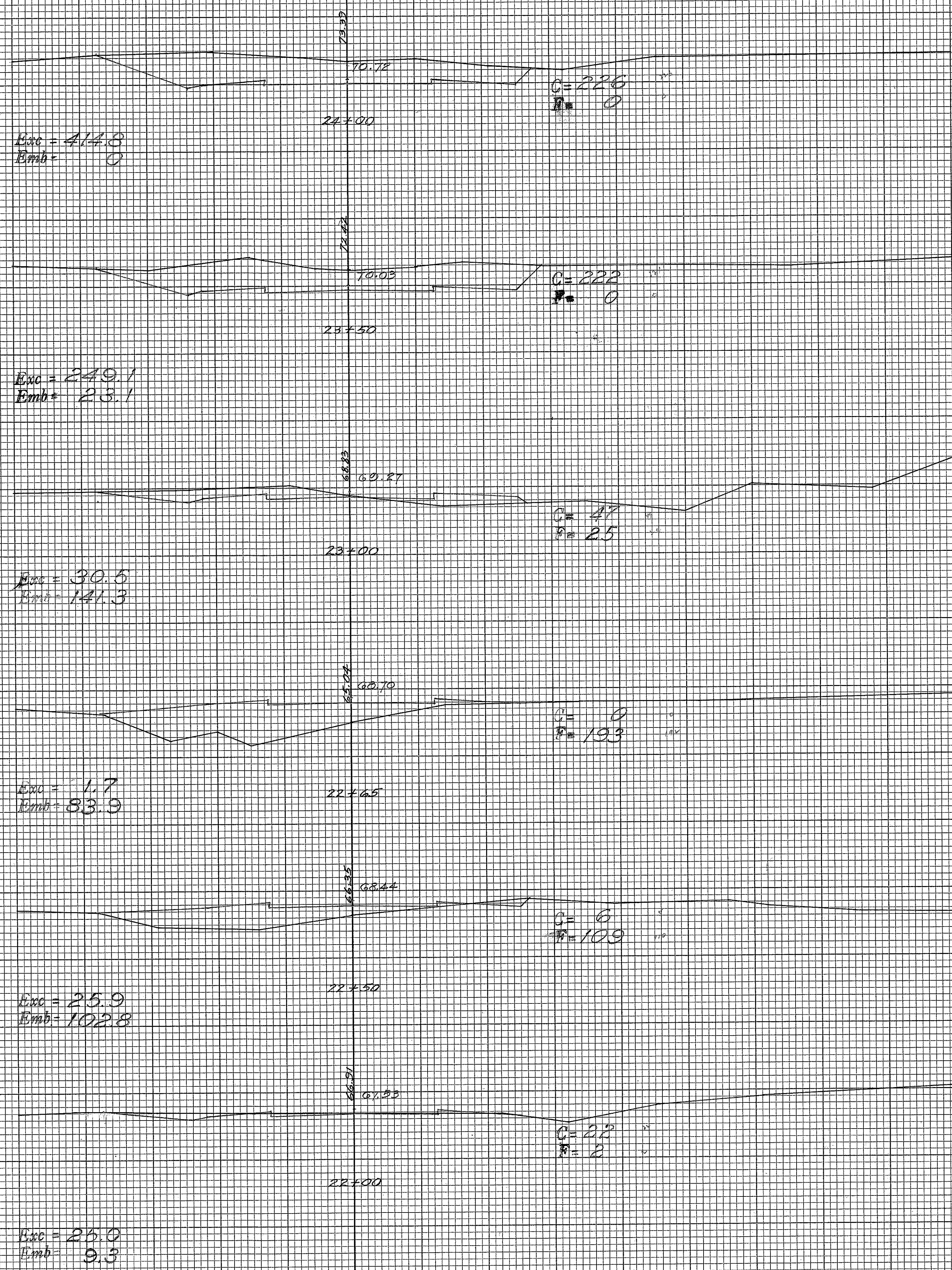
Exc = 273.9
Emb = 8.3

C = 11
F = 6

FINAL SURVEY	BY	DATE	SURVEYED NOTE BOOK	PLOTTED TEMPERATURE	AREAS CHECKED

ORIGINAL SURVEY	BY	DATE	SURVEYED NOTE BOOK	PLOTTED TEMPERATURE	AREAS CHECKED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	518(1)	1948	15	22

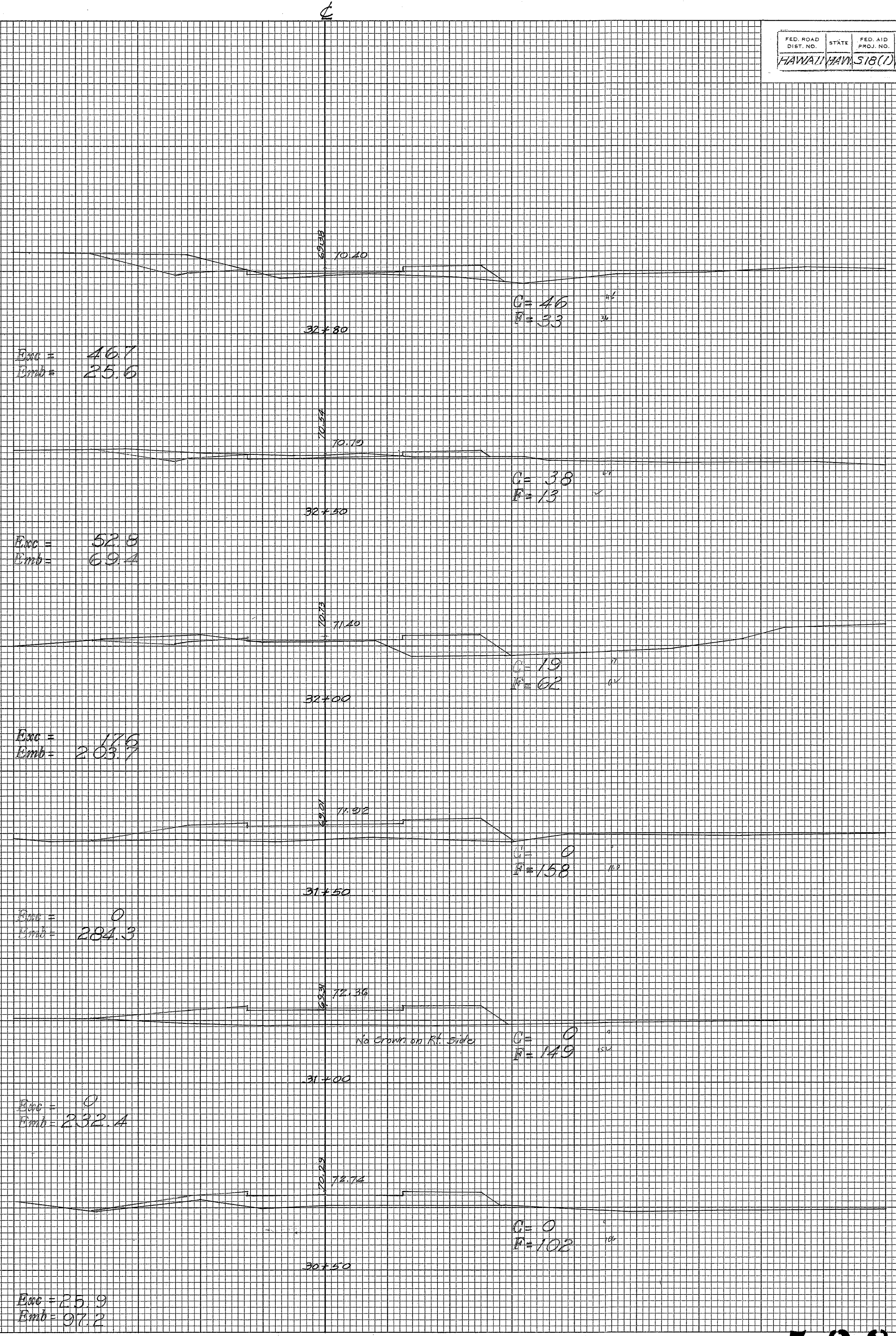
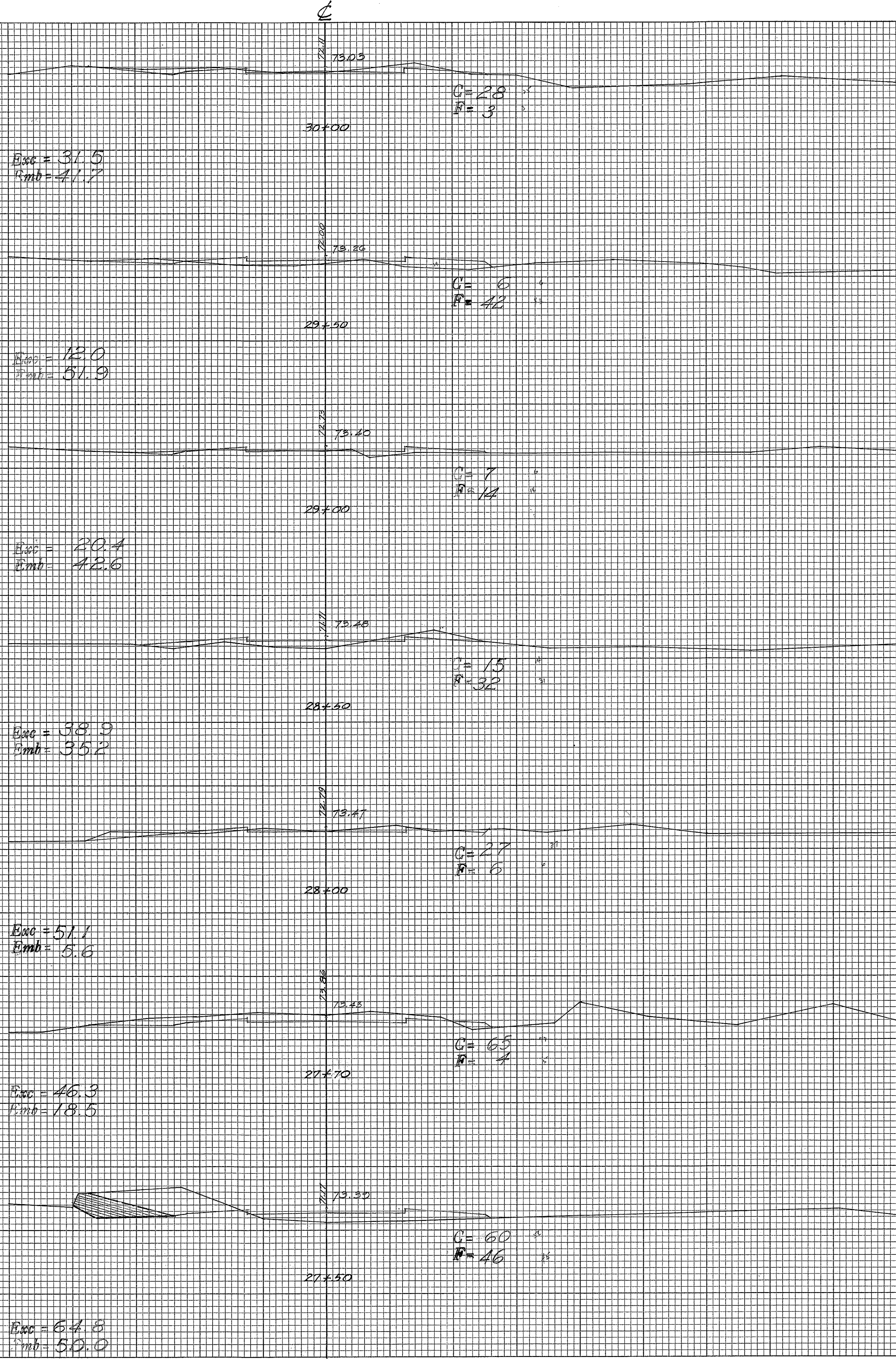


DATE	BY	FINAL SURVEY	SURVEY	NO.
		BOOK	PLATE	
		NO.	NO.	
		NO.	NO.	
		NO.	NO.	

DATE	BY	ORIGINAL SURVEY	SURVEY	NO.
		BOOK	PLATE	
		NO.	NO.	
		NO.	NO.	
		NO.	NO.	

Correction Noted May 17, 1949

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	518(1)	1948	16	22

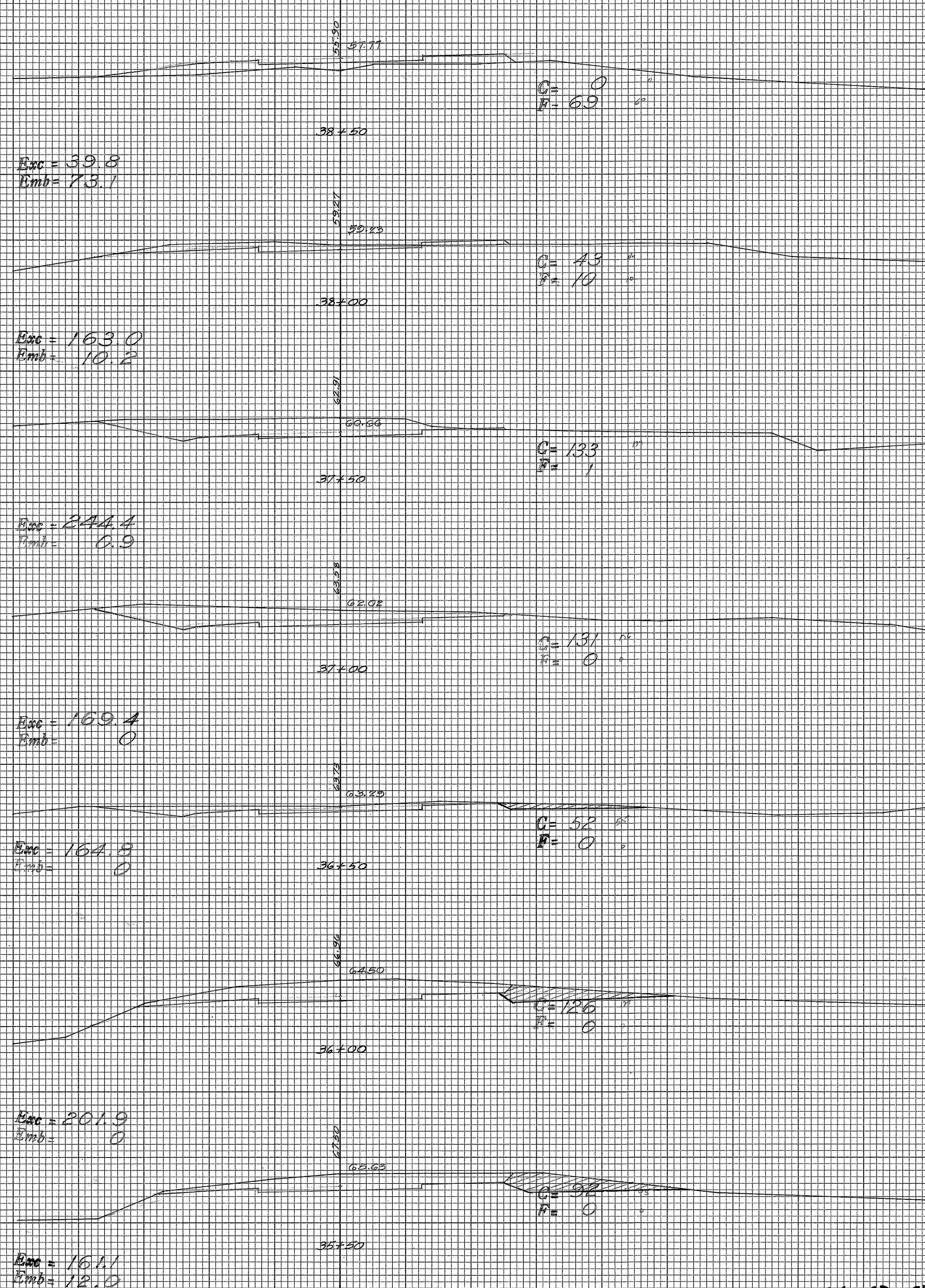
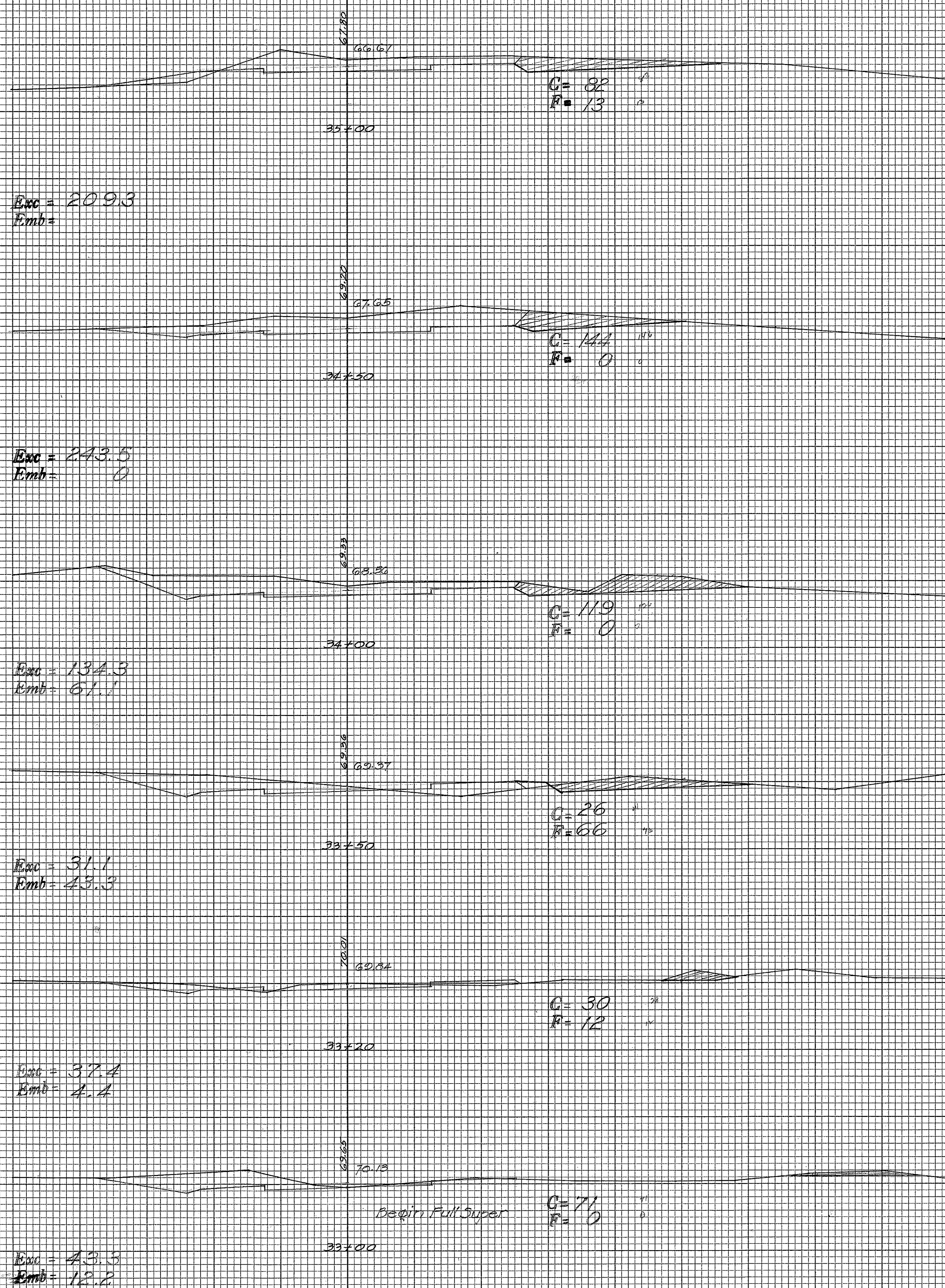


FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
AREAS CHECKED		
NO.		

Correction Made May 17, 1949

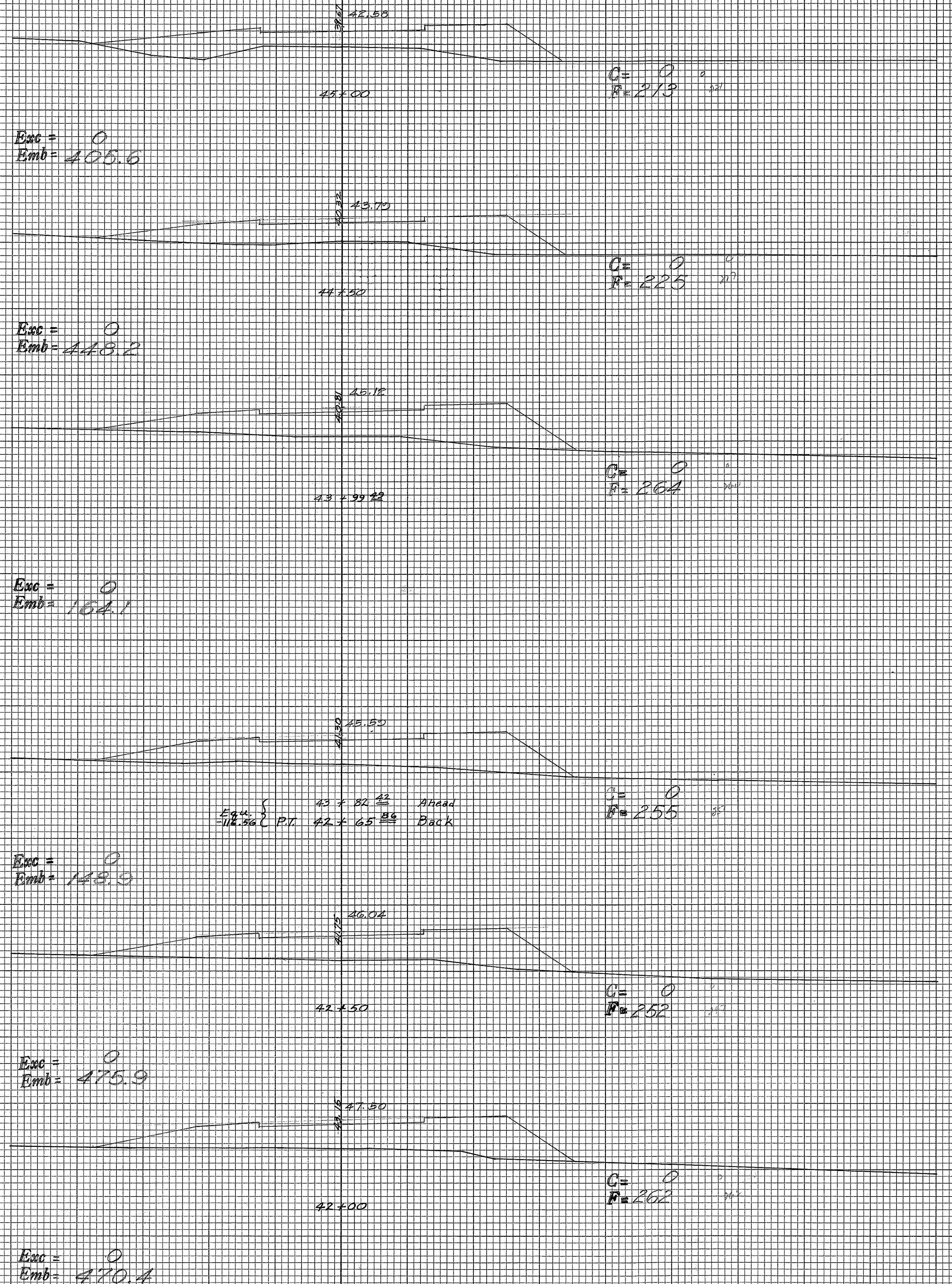
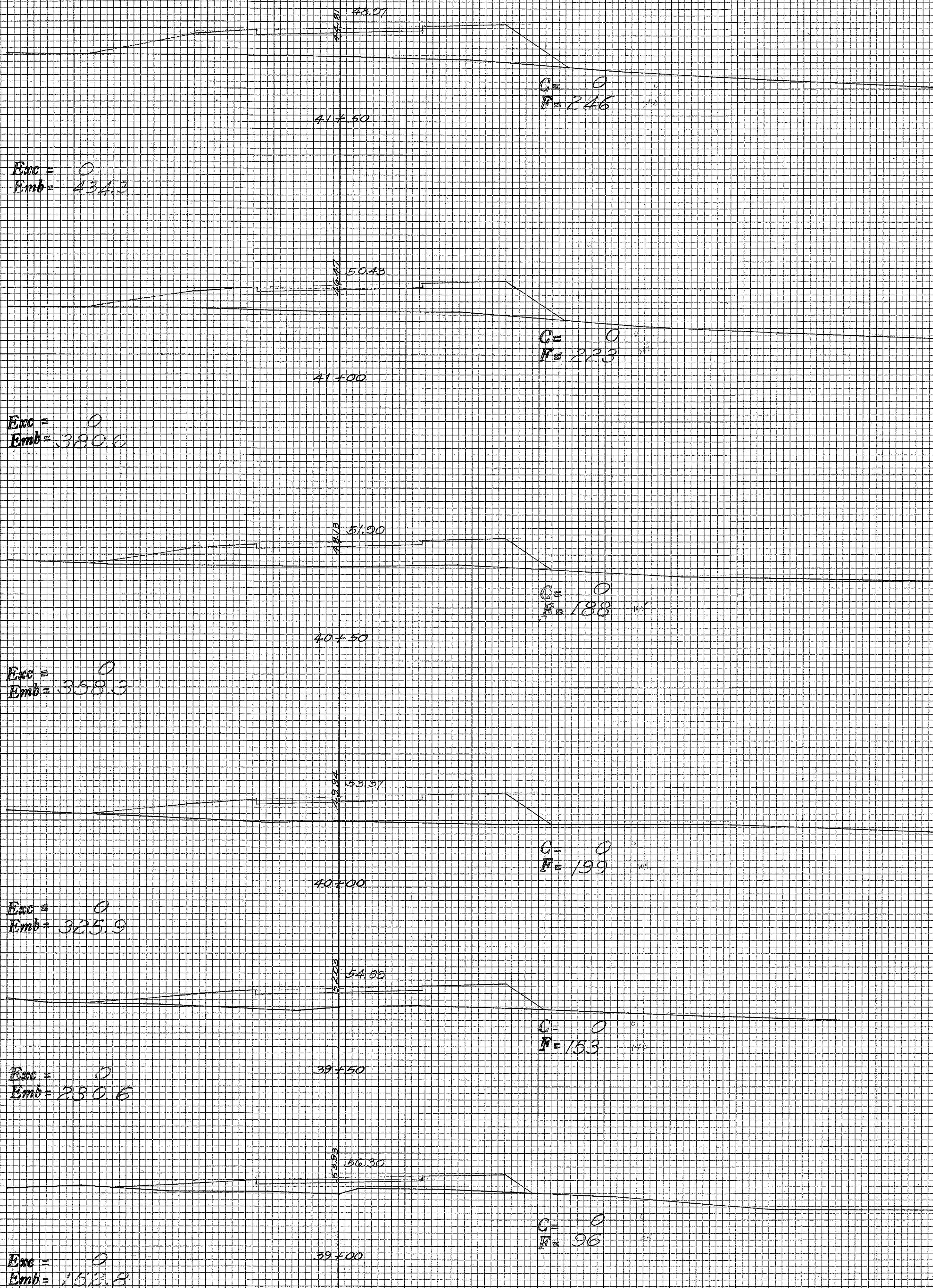
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAIIAN	HI	518(1)	1948	17	22



FINAL SURVEY NOTE BOOK NO.	BY	DATE
SURVEYED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	BY	DATE
SURVEYED TEMPLATE AREAS CHECKED	BY	DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII HAW.		518(1)	1948	18	22

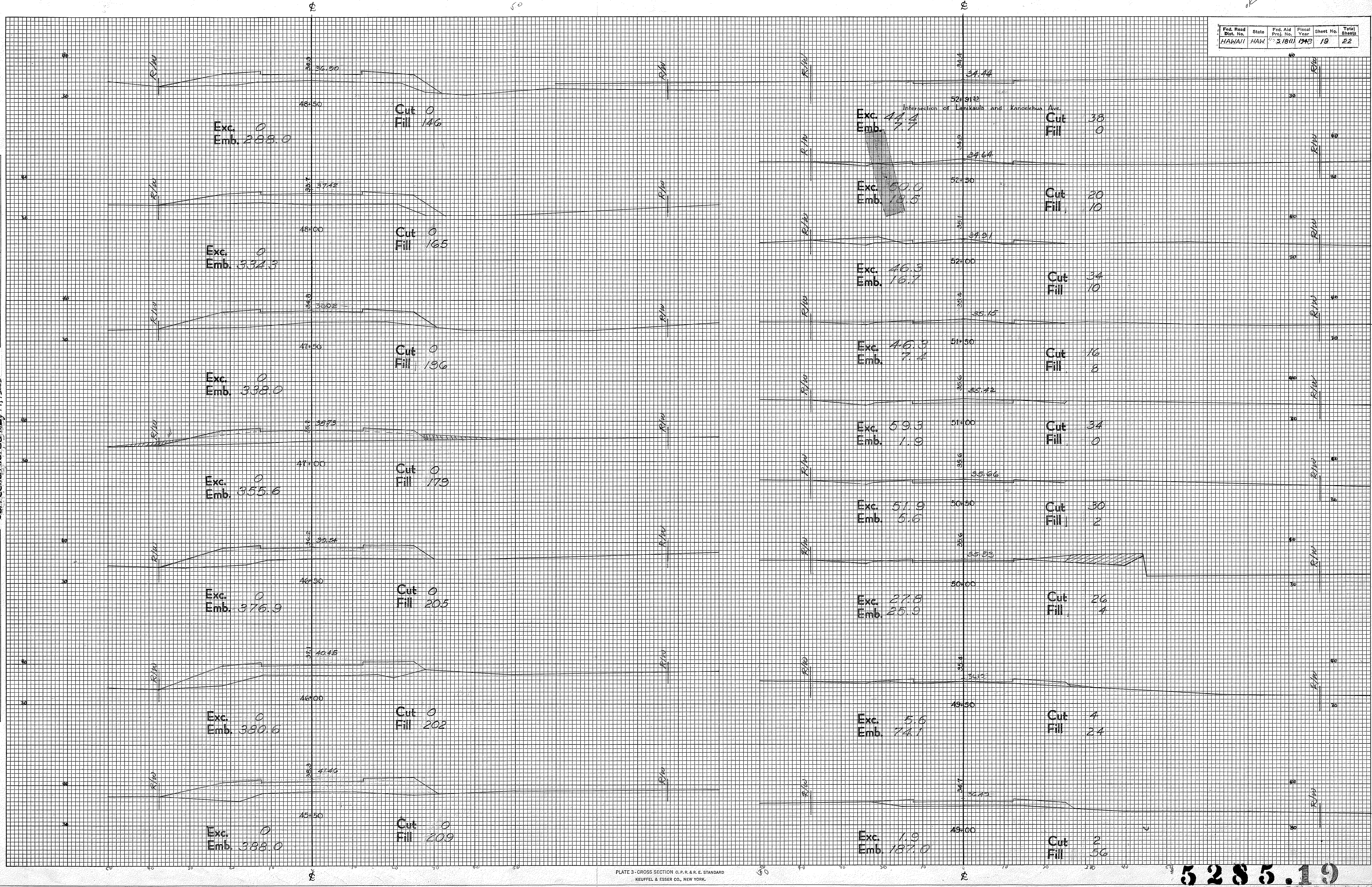


FINAL SURVEY	SURVEYED PLANNED NOTE BOOK	DATE
NO.	AREAS CHECKED	

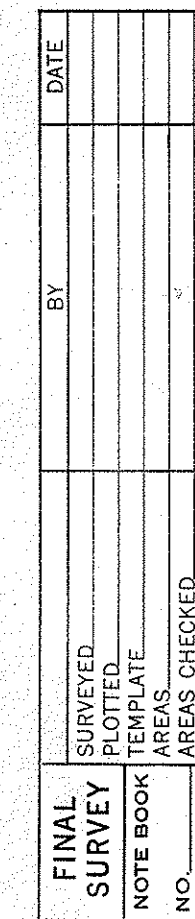
ORIGINAL SURVEY	SURVEYED PLANNED NOTE BOOK	DATE
NO.	AREAS CHECKED	

Correction Noted May 17, 1949

Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
HAWAII	HAW	51841	1943	19	22



Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
HAWAII	HAW.	S. 18(1)	1948	20	22



Correction Noted
May 17, 1949

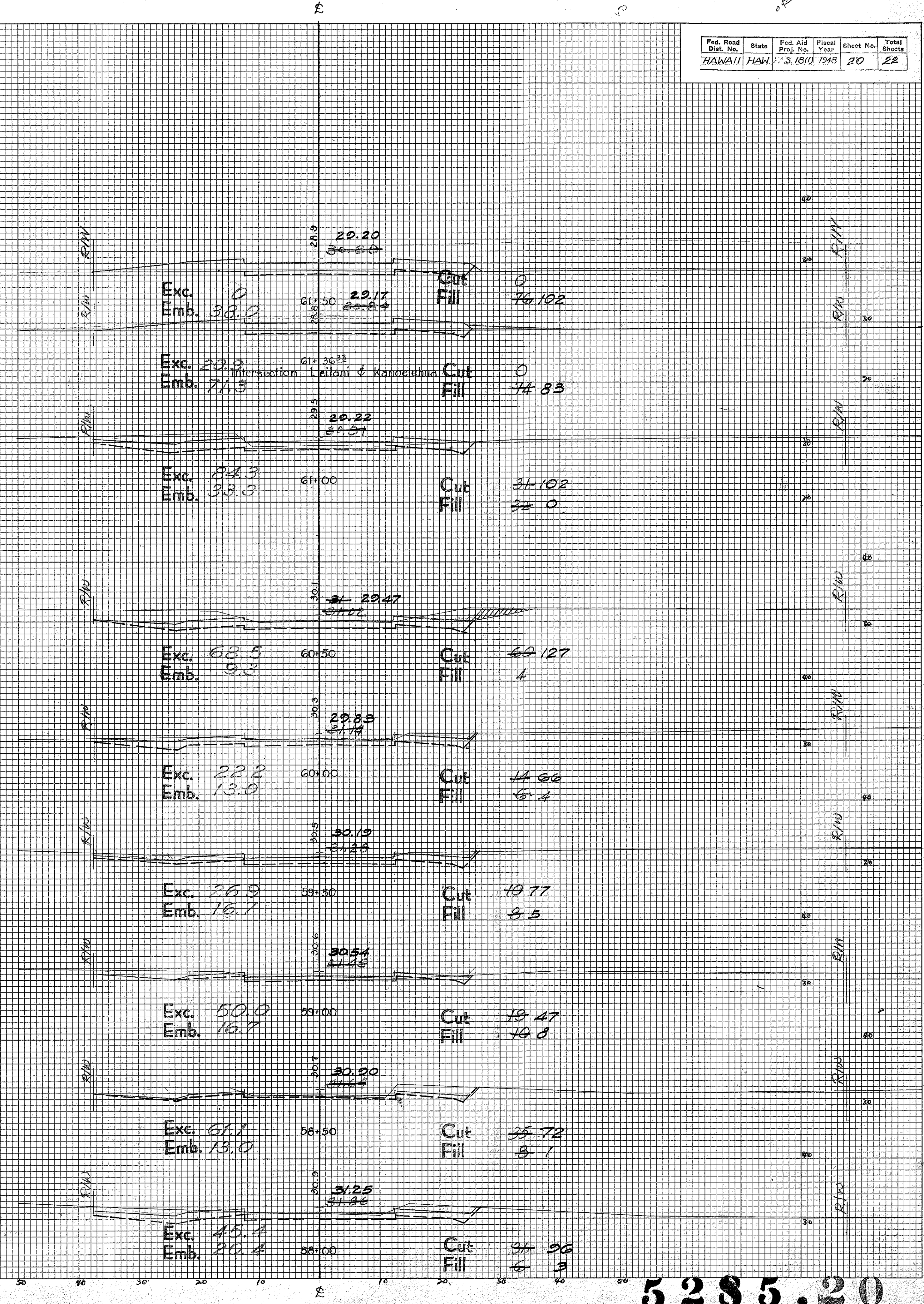
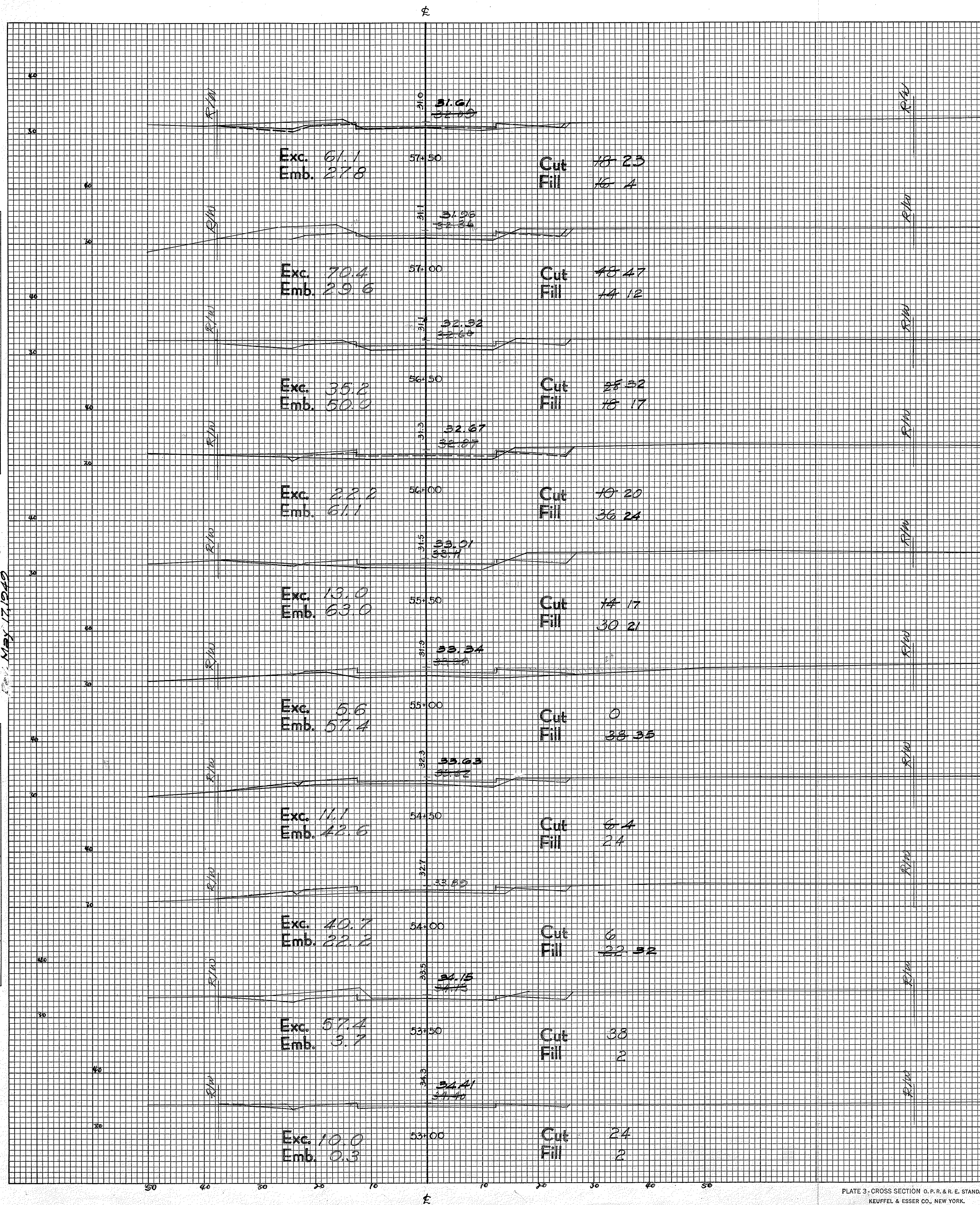
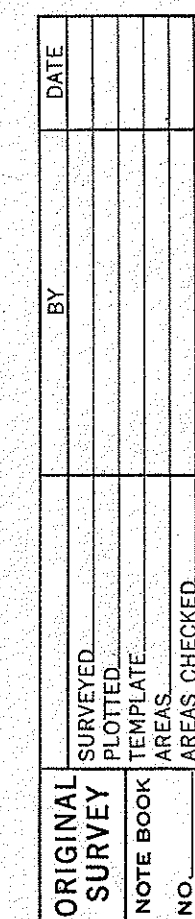


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. NO. 345-3 MADE IN U. S. A. 143063-

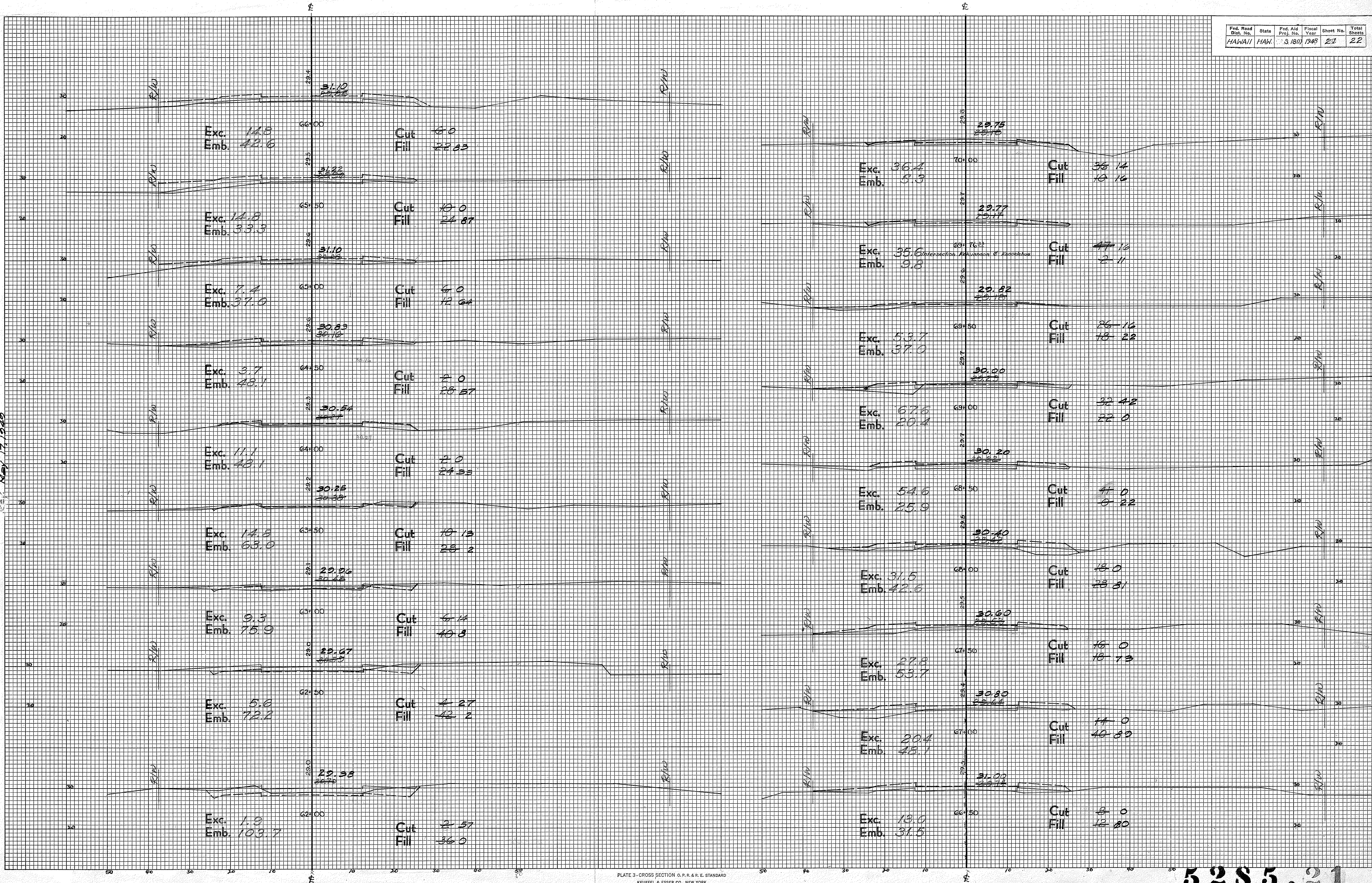
5285.20

FINAL SURVEY	SURVEYED PLOTTED	DATE
NO.	NO.	
NOTE BOOK		BY
AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED PLOTTED	DATE
NO.	NO.	
NOTE BOOK		BY
AREAS CHECKED		

Correction Noted
May 17, 1949

Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
HAWAII	HAW.	S. 180	1948	21	22



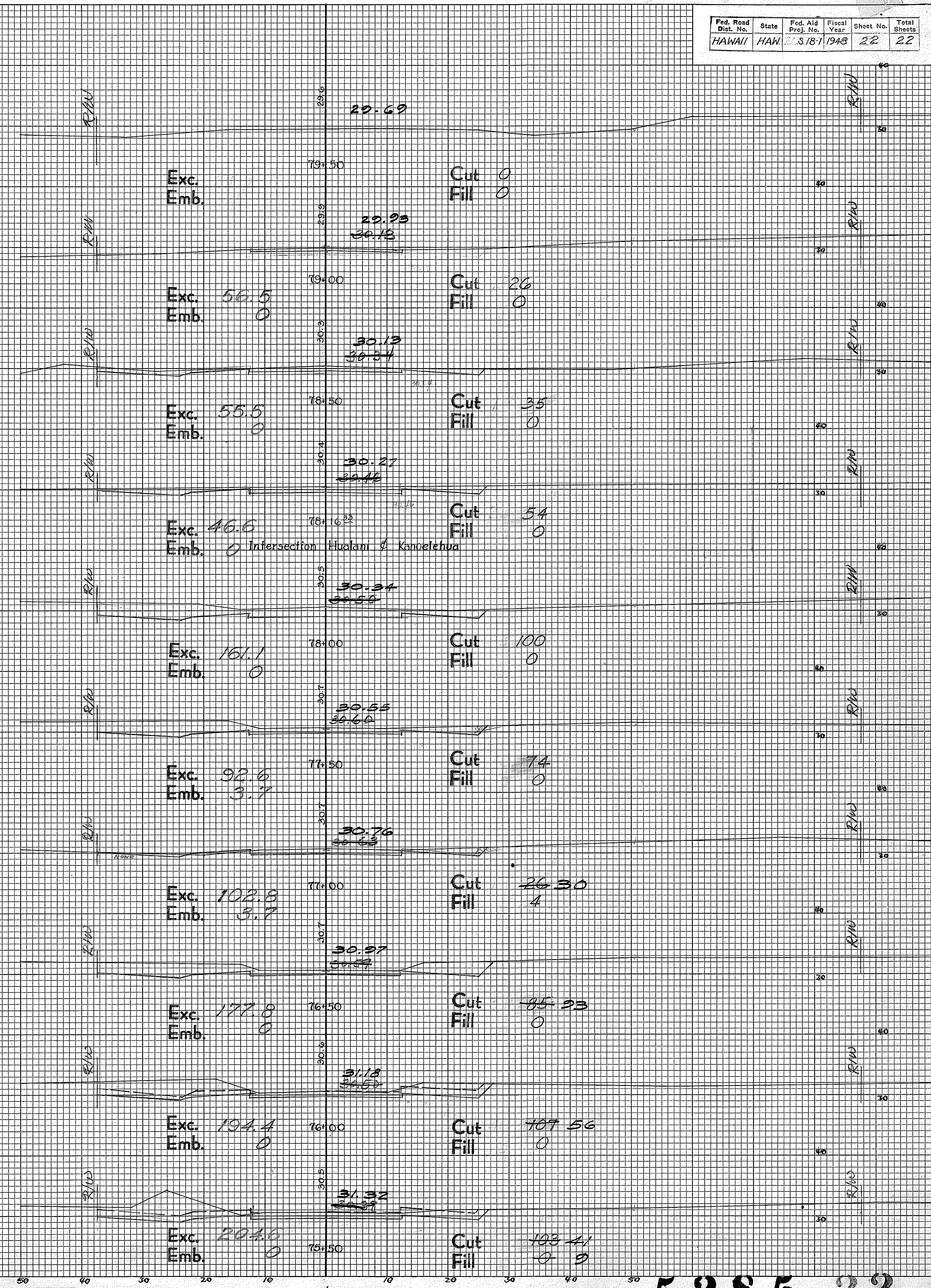
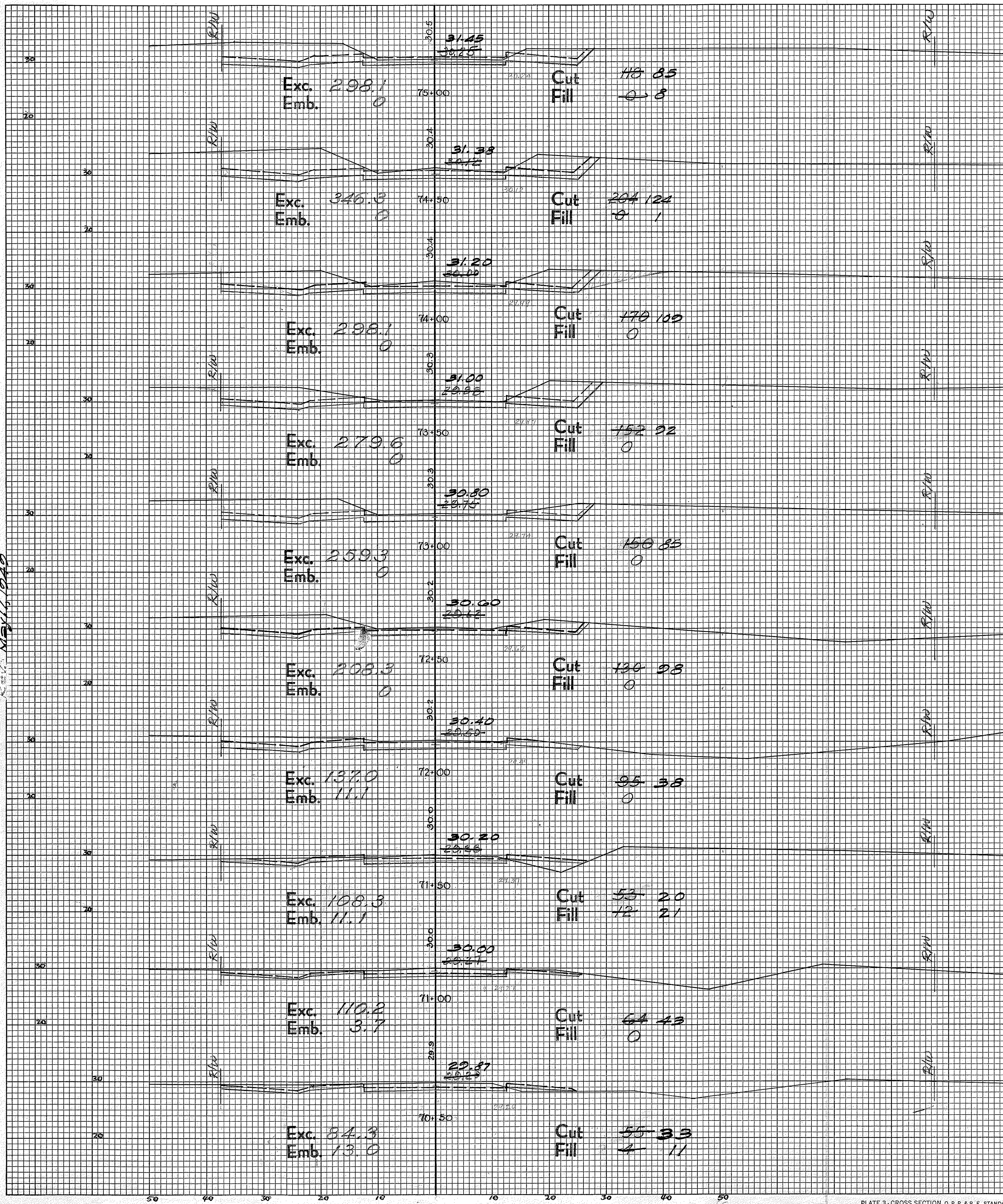
5285.21

FINAL SURVEY	DATE	
	BY	
	SURVEYED	
	NOTE BOOK	
	NO.	

ORIGINAL SURVEY	DATE	
	BY	
	SURVEYED	
	NOTE BOOK	
	NO.	

Correction Noted
Ret. 10/17/1948

Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
HAWAII	HAW	15.87	1948	22	22



5285.22