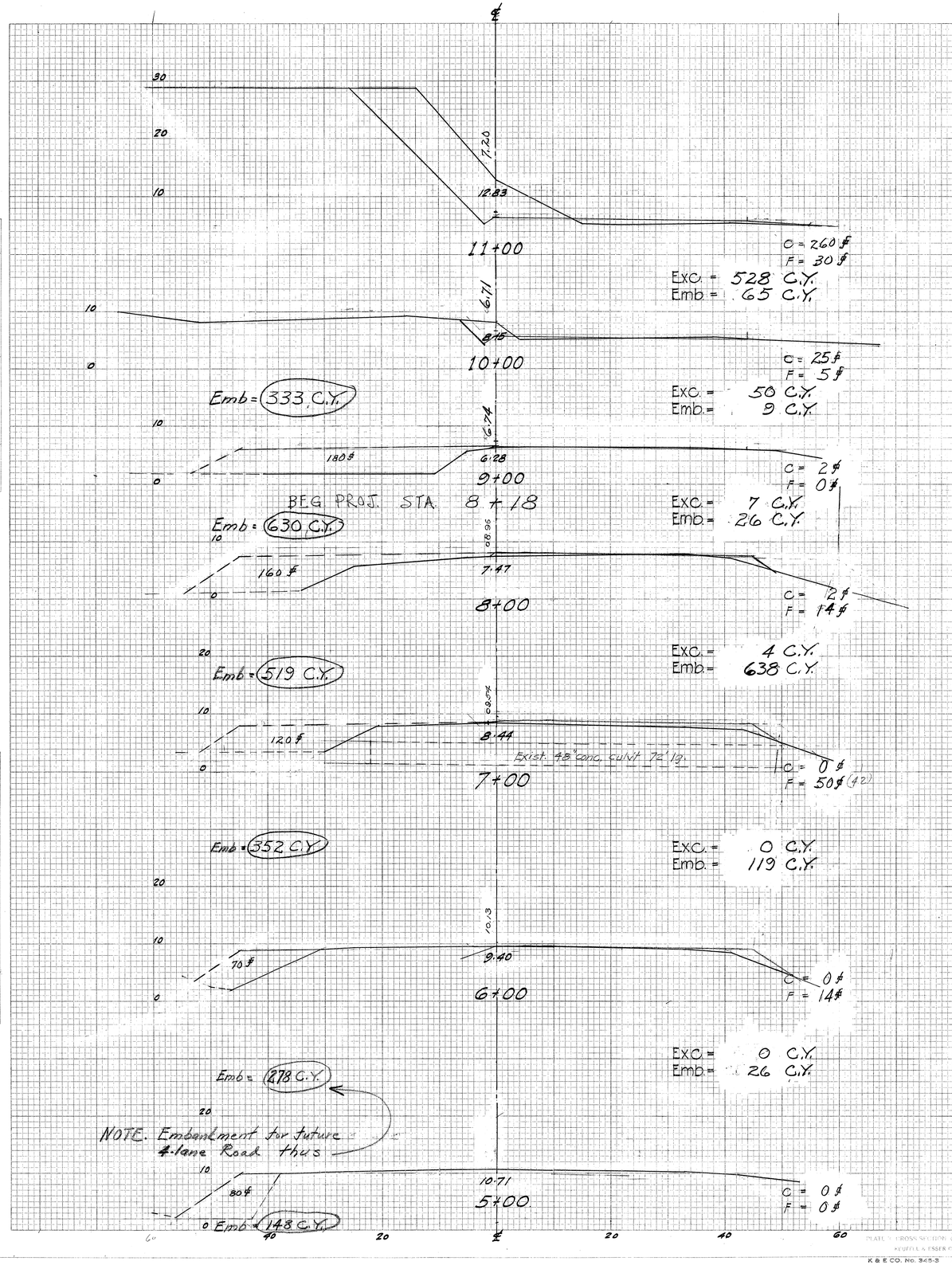
FED. ROAD D. OF. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S(B(1)	1947	7	12

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



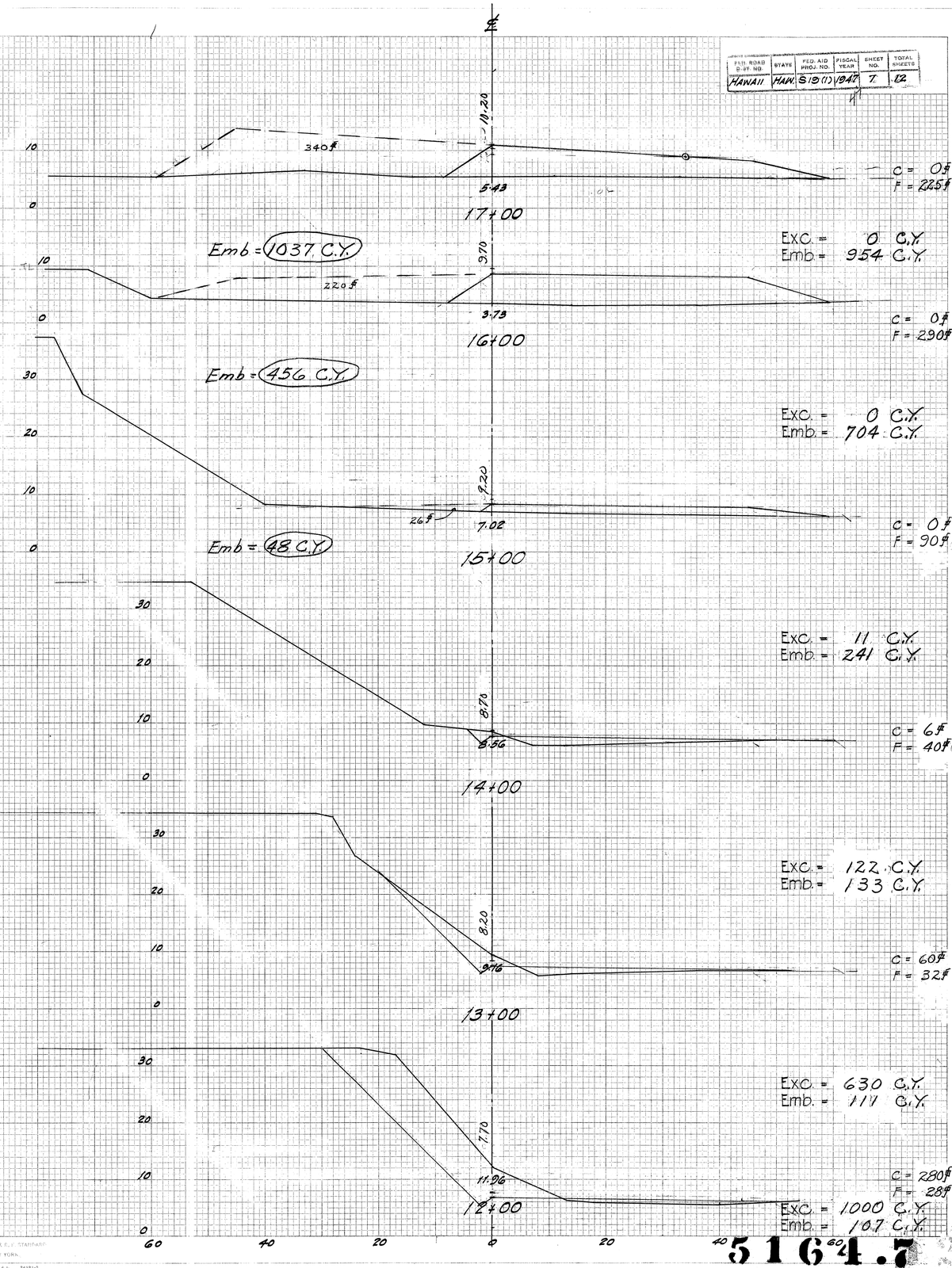


PLATE 7 CROSS SECTION U.S.P.R.& R.C. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 365-3 MADE IN U.S.A. 94181-2

5164.7

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S 19 (1)	1947	8	12

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

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

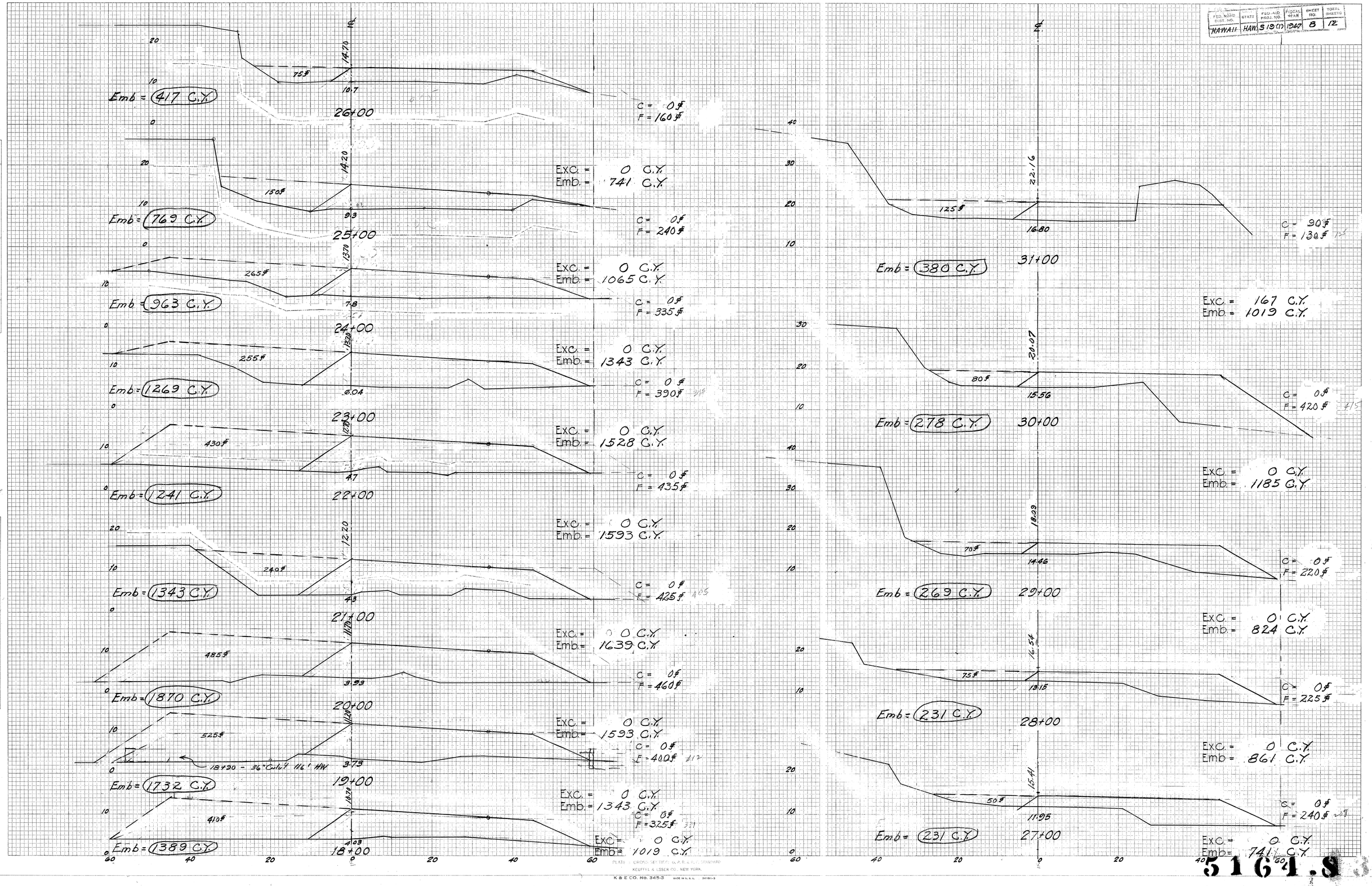


PLATE 1 CROSS SECTIONS U.S.P.R. & H.B. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

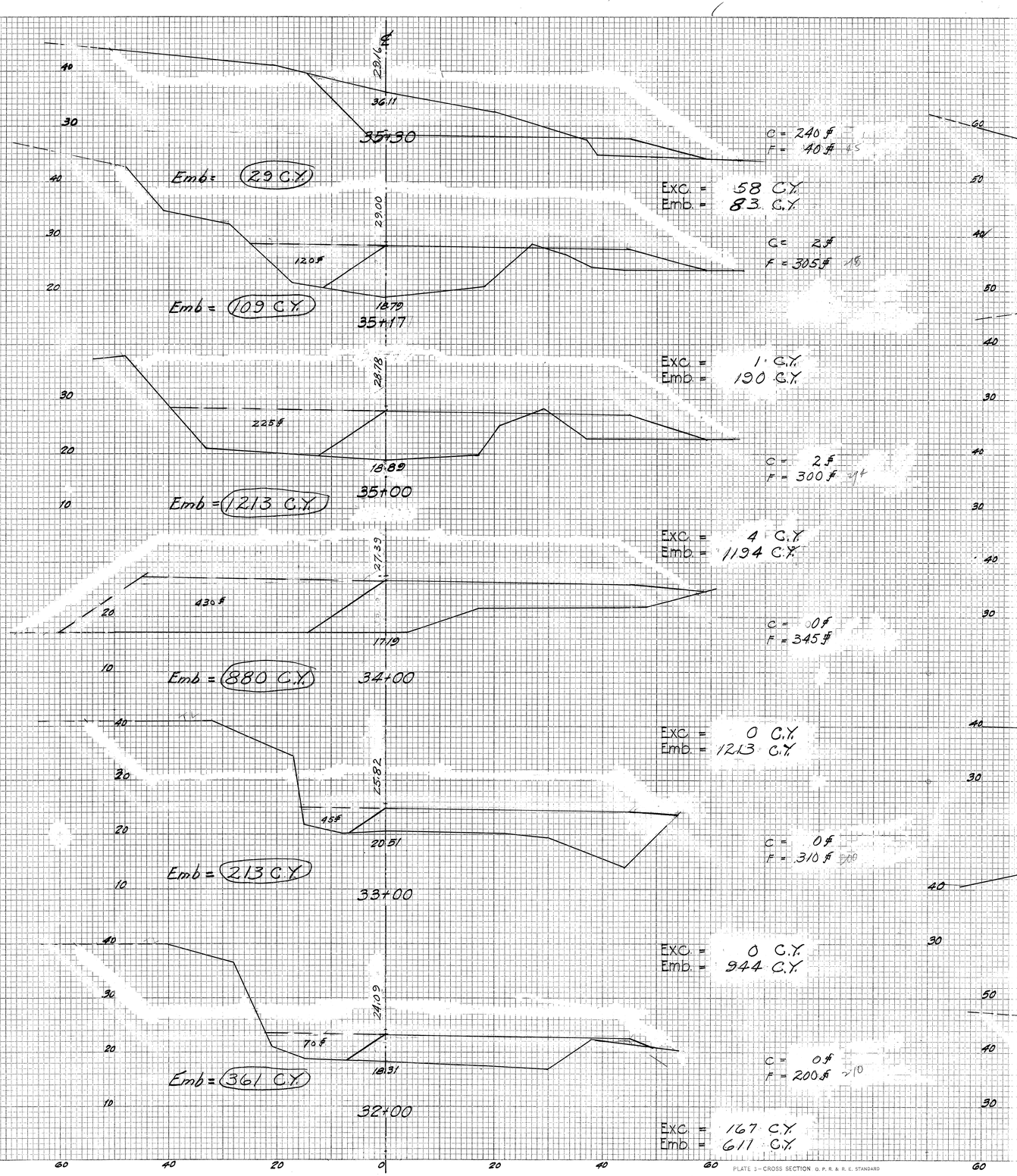
K & E CO. No. 365-3 MADE IN U.S.A. 24181-3

5164.8

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S 19(1)	1948	9	12

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

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



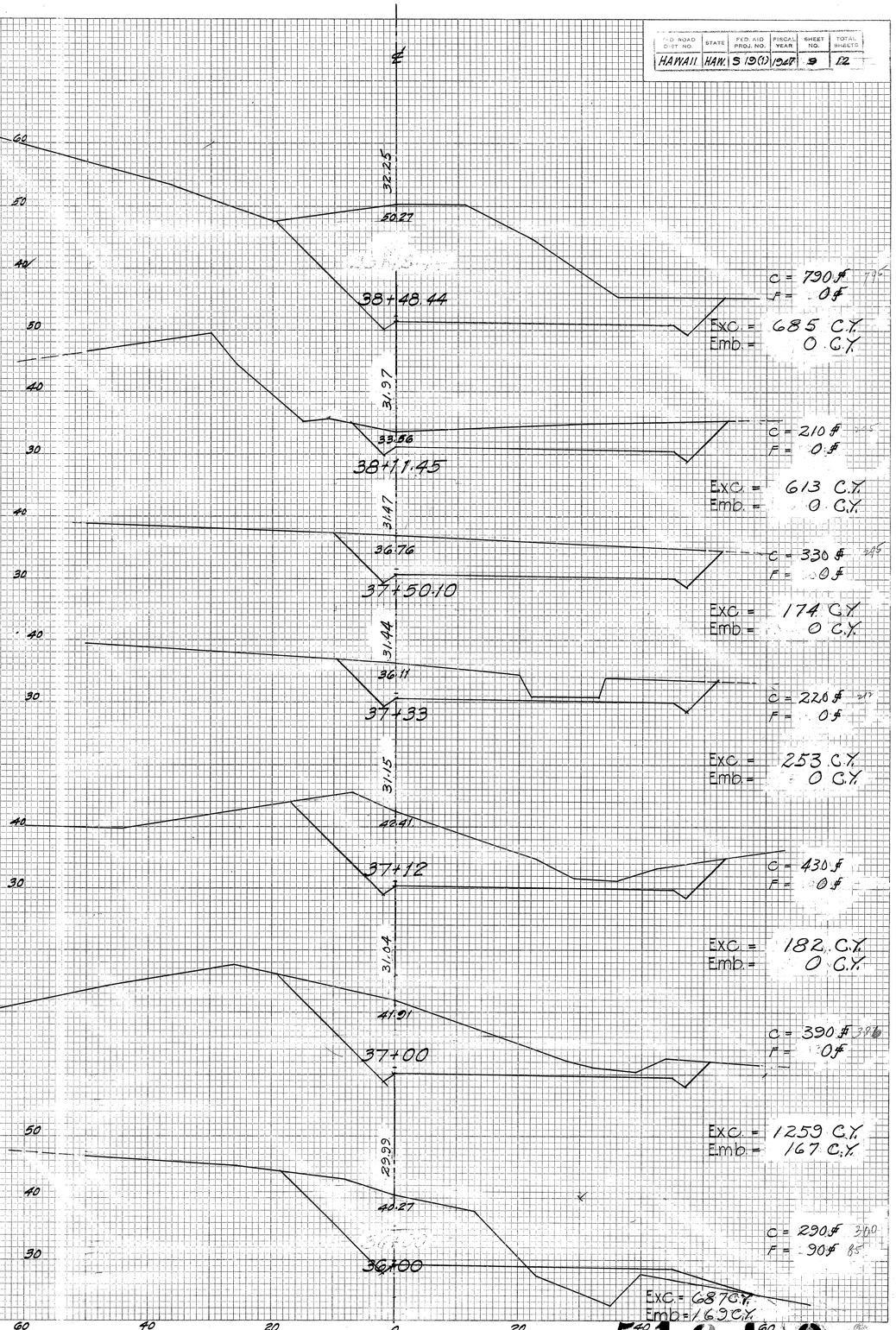


PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

MADE IN U. S. A. 29420

5164.9

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S 19(1)	1968	40	142

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

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

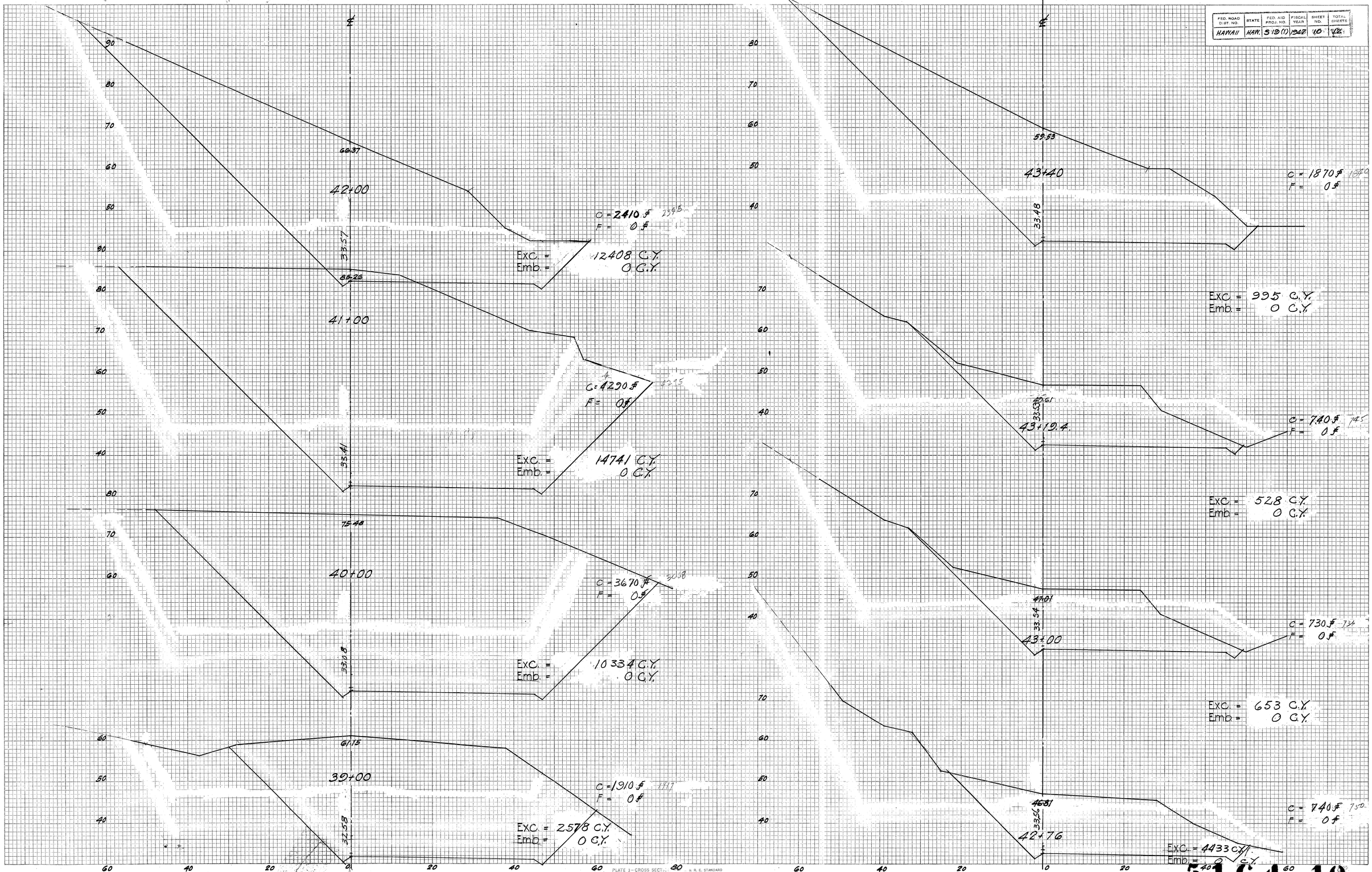


PLATE 3 — CROSS SECTIONS — U. S. R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U. S. A. 29420

5164.10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S 13(1)(2)07	16	12

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

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

451982

32.43 / 30.41

C = 260 ℄
F = 0 ℄

Exc. = 295 C.Y.
Emb. = 0 C.Y.

45+67

32.62 / 30.01

C = 250 ℄
F = 0 ℄

Exc. = 1663 C.Y.
Emb. = 0 C.Y.

45+00

32.97 / 28.57

C = 1090 ℄
F = 0 ℄

Exc. = 5167 C.Y.
Emb. = 0 C.Y.

44+00

33.35 / 29.91

C = 1700 ℄
F = 0 ℄

Exc. = 3967 C.Y.
Emb. = 0 C.Y.

48+00

31.14 / 30.55

C = 0 ℄
F = 110 ℄

Exc. = 494 C.Y.
Emb. = 243 C.Y.

47+09.57

31.72 / 29.07

C = 295 ℄
F = 35 ℄

Exc. = 1313 C.Y.
Emb. = 43 C.Y.

46+43

32.14 / 28.27

C = 770 ℄
F = 0 ℄

Exc. = 854 C.Y.
Emb. = 0 C.Y.

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

MADE IN U. S. A. 29420

5164.11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S 19(11)	1947	12	12

FINAL SURVEY	
	SURVEYED
	PLOTTED
	COMPUTED
NOTE BOOK	AREAS
NO.	AREAS CHECKED

ORIGINAL SURVEY	
	SURVEYED
	PLOTTED
	COMPUTED
NOTE BOOK	AREAS
NO.	AREAS CHECKED

END PROJ STA 52+32.24

52+00

28.58

25.85

C = 0 ☐
F = 140 ☐

Emb = 546 C.Y.

Exc. = 0 C.Y.
Emb. = 685 C.Y.

51+00

29.22

25.35

290☐

C = 0 ☐
F = 230 ☐

Emb = 759 C.Y.

Exc. = 0 C.Y.
Emb. = 926 C.Y.

50+00

29.86

25.80

120☐

C = 0 ☐
F = 270 ☐

Emb = 454 C.Y.

Exc. = 0 C.Y.
Emb. = 889 C.Y.

49+00

30.50

27.24

125☐

C = 0 ☐
F = 210 ☐

Emb = 231 C.Y.

Exc. = 0 C.Y.
Emb. = 593 C.Y.

54+00

25.41

Emb =

Exc. =
Emb. =

53+00

27.65

27.41

C = 0 ☐
F = 0 ☐

Emb = 9 C.Y.

Exc. = 0 C.Y.
Emb. = 259 C.Y.

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

MADE IN U.S.A. 29420

5164.12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S190(1)	1947	12A	12

FINAL SURVEY — SURVEYED E. K. Stone Jr. BY; PLOTTED L. C. Fuerte; TEMPLATE H. GAGE; AREAS CHECKED —; NOTE BOOK —; NO. —; DATE Nov. '47

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

Scale Horz 1" = 100' Vert 1" = 10'

Sept. 1947

C= 9
F=274

9.43

8+00

Exc = 8.3
Emb=516.7

C= 0
F=284

9.64

7+50

Exc = 0.0
Emb=487.0

C= 0
F=242

9.86

7+00

Exc = 0.0
Emb=318.5

C= 0
F=102

10.07

6+50

Exc = 27.8
Emb=222.2

C= 30
F=138

10.29

6+00

Exc = 40.7
Emb=251.9

C= 14
F=134

10.50

5+50

Exc = 13.0
Emb=124.1

C= 0
F= 0

5+00

C=742
F= 96

8.35

10+50

Exc = 794.4
Emb=194.4

C=116
F=114

8.57

10+00

Exc = 107.4
Emb=527.8

C= 0
F=456

8.78

9+50

Exc = 0.0
Emb=805.6

C= 0
F=414

9.00

9+00

Exc = 0.0
Emb=722.2

C= 0
F=366

9.21

8+50

Exc = 8.3
Emb=592.6

C
F

8+48
OUT

Exc =
Emb =

K & E CO. NO. 348-3 MADE IN U.S.A.

5164.12A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S 190(1)	1947	12B	12

FINAL SURVEY — SURVEYED: E.K. Stone, L.C. Fouts; PLOTTED: ; TEMPLATE: ; AREAS CHECKED: ; NOTE BOOK: ; NO. ; DATE: Nov. 47

ORIGINAL SURVEY — SURVEYED: ; PLOTTED: ; TEMPLATE: ; AREAS CHECKED: ; NOTE BOOK: ; NO. ; DATE: Sept. 1947

REVISED Nov. 1947 Scale Hor. 1"=10' Ver. 1"=10'

C=1069
F= 0

8.8 8.20

13+00

Exc =2068.6
Emb = 22.2

C=1165
F= 24

10.5 8.01

12+50

C=1251
F= 28

11.7 7.94

12+00

Exc =2237.1
Emb = 48.2

C=1223
F= 68

15.0 7.98

11+50

Exc =2290.8
Emb = 88.9

C=647
F= 10

13.0 8.13

11+00

Exc =1731.5
Emb = 72.2

Exc =1286.1
Emb = 98.2

C=115
F=116

9.1 9.20

15+00

C=284
F= 58

6.2 8.95

14+50

Exc =367.4
Emb =161.1

C=797
F= 20

8.6 8.70

14+00

Exc =1000.9
Emb = 72.2

C=953
F= 22

9.9 8.45

13+50

Exc =1620.3
Emb = 38.9

Exc =1872.3
Emb = 20.4

5164.12B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S 1901	1947	12C	12

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

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

REVISED Nov. 1947

Scale Hor. 1" = 10' Vert. 1" = 10'

Sept. 1947

C= 0
F=660
4.4 10.95
18+50

Exc =14.8
Emb=1118.5

C= 16
F=548
4.4 10.70
18+00

Exc =20.4
Emb=901.9

C= 6
F=426
5.2 10.45
17+50

Exc =14.8
Emb=774.1

C=10
F=410
5.6 10.20
17+00

Exc = 18.5
Emb=677.8

C=10
F=322
6.3 9.95
16+50

Exc = 25.9
Emb=528.7

C=18
F=249
6.8 9.70
16+00

Exc = 77.8
Emb=394.4

C=66
F=177
6.7 9.45
15+50

Exc =167.6
Emb=271.3

C= 0
F=749
4.4 12.70
22+00

Exc = 0.0
Emb=1340.7

C= 0
F=699
4.3 12.45
21+50

Exc = 0.0
Emb=1295.3

C= 0
F=700
4.1 12.20
21+00

Exc = 0.0
Emb=1290.7

C= 0
F=694
4.0 11.95
20+50

Exc = 0.0
Emb=1312.9

C= 0
F=724
3.9 11.70
20+00

Exc = 0.0
Emb=1400.0

C= 0
F=788
3.5 11.45
19+50

Exc = 0.0
Emb=1398.1

C= 0
F=722
3.6 11.20
19+00

Exc = 0.0
Emb=1279.6

PLATE 7.0 — K & E CO. No. 348-3 MADE IN U. S. A.

5164.12C

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S 19(1)	1947	12D	12

FINAL SURVEY — SURVEYED: E.K. Price; PLOTTED: L.L. Ruth; TEMPLATE: ; AREAS CHECKED: ; DATE: Nov. 47

ORIGINAL SURVEY — SURVEYED: ; PLOTTED: ; TEMPLATE: ; AREAS CHECKED: ; DATE: Sept. 1947

REVISED — Scale Horiz. 1"=10' Vert. 1"=10'

Sept. 1947

25+00
C= 0
F=252
2.3
14.20

24+50
C= 0
F=287
Removed by Bd. of Institutions.
8.5
13.95
Exc = 0.0
Emb=499.1

24+00
C= 0
F=377
7.8
13.70
Exc = 0.0
Emb=614.8

23+50
C= 0
F=471
7.1
13.45
Exc = 0.0
Emb=785.2

23+00
C= 0
F=549
6.0
13.20
Exc = 0.0
Emb=944.4

22+50
C= 0
F=695
4.9
12.95
Exc = 0.0
Emb=1151.9

28+00
C= 0
F=268
13.2
16.54

27+50
C= 0
F=264
12.6
15.92
Exc = 0.0
Emb=492.6

27+00
C= 0
F=222
12.0
15.41
Exc = 0.0
Emb=450.0

26+50
C= 0
F=288
11.4
15.00
Exc = 0.0
Emb=472.2

26+00
C= 0
F=218
10.7
14.70
Exc = 0.0
Emb=468.5

25+50
C= 0
F=228
10.0
14.45
Exc = 0.0
Emb=413.0

Exc = 0.0
Emb=444.4

Exc = 0.0
Emb=1337.0

PLAT PAPER FURNISHED BY BLUE PRINT SERVICE STANDARD
NORTH CAROLINA, INC.
K & E CO. NO. 345-3 MADE IN U. S. A.

5164.12D

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S 190	1947	12E	12

FINAL SURVEY — SURVEYED: E.K. Fitzpatrick; PLOTTED: L.C. Fouts; TEMPLATE: G.A. Case; AREAS COMPUTED: G.A.C.; AREAS CHECKED: MAR. '48; NOTE BOOK: ; PAGES: ; NO.: ; DATE: MAR. '47; BY: ;

ORIGINAL SURVEY — SURVEYED: ; PLOTTED: ; TEMPLATE: ; AREAS COMPUTED: ; AREAS CHECKED: ; NOTE BOOK: ; PAGES: ; NO.: ; DATE: ; BY: ;

Sept. 1947.

31+00
C= 0
F=467
16.9
22.16
Exc = 0.0
Emb=828.7

30+50
C= 0
F=428
16.3
21.14

30+00
C= 0
F=376
15.6
20.07
Exc = 0.0
Emb=744.4

29+50
C= 0
F=300
15.2
19.03
Exc = 0.0
Emb=625.9

29+00
C= 0
F=286
14.5
18.09
Exc = 0.0
Emb=542.6

28+50
C= 0
F=238
13.8
17.26
Exc = 0.0
Emb=485.2

33+50
C= 0
F=668
17.8
26.63

33+00
C= 0
F=347
20.6
25.82
Exc = 0.0
Emb=939.8

32+50
C= 0
F=326
19.5
24.98
Exc = 0.0
Emb=623.2

32+00
C= 0
F=488
16.4
24.09
Exc = 0.0
Emb=753.7

31+50
C= 0
F=405
17.5
23.14
Exc = 0.0
Emb=826.9

Exc = 0.0
Emb=807.4

PLATE CROSS SECTION PAPER U.S.E. STANDARD
MULTIPLE OF TEN TO THE INCH

K & E CO. No. 348-3 MADE IN U. S. A.

5164.12E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S1911	1947	12F	12

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — DATE Nov 1947 — BY E.K.Stone, J.E.Lewis, L.C.Lewis, A.K.Lee, C.A.Stone

ORIGINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — DATE — BY E.K.Stone

REVISED NOV. 1947

C= 730°
F= 57°

36.1
29.17
35+30

C= 141°
F= 586°

29.00
18.8
35+ 1.7

C= 168°
F= 484°

28.78
19.1
35+ 00

C= 0°
F= 890°

28.11
17.9
34+ 50

C= 0°
F= 737°

27.39
17.3
34 + 00

C= 792°
F= 0°

36.8
31.47
37+50

C= 836°
F= 20°

42.0
31.04
37+00

C= 866°
F= 16°

38.8
30.53
36+50

C= 1116°
F= 114°

40.3
29.99
36+00

C= 983°
F= 80°

39.5
29.41
35+50

Exc = 209.7
Emb = 145.2

Exc = 97.3
Emb = 32.3

Exc = 155.6
Emb = 127.2

Exc = 0
Emb = 1506.5

Exc = 0.0
Emb = 1300.9

Exc = 503.7
Emb = 0

Exc = 1044.4
Emb = 18.5

Exc = 1575.9
Emb = 33.3

Exc = 1835.2
Emb = 120.4

Exc = 1943.6
Emb = 179.6

Exc = 634.4
Emb = 50.7

PLATE CROSS SECTION, A.A.S.H.O. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U. S. A.

5164.12F

FOURTH DIST.
FAS. 1(17)

HAWAII	HAW 512(1)	1947	12G	12
TOTAL SHEETS	FISCAL YEAR NO	PROJ NO	STATE DIST NO	FED ROAD DIST NO

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY E.K. Straub — DATE Nov. 1947

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY E.K. Straub — DATE

REVISED NOV. 1947

Sta 39+92
C = 2375
F = 0°
Exc = 3784.3
Emb = 0
Sta 39+50
C = 1712
F = 0°
Sta 39+00
C = 743
F = 0°
Exc = 2273.2
Emb = 0
Sta 38+50
C = 252
F = 0°
Exc = 921.4
Emb = 0
Sta 38+00

Sta 41+00
C = 3351
F = 0°
Exc = 5587.1
Emb = 0
Sta 40+50
C = 3231
F = 0°
Exc = 6094.5
Emb = 0
Sta 40+00
C = 2942
F = 0°
Exc = 5715.8
Emb = 0
Exc = 4923.1
Emb = 0

PLATE 3. CROSS SECTIONS, U.S.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

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

3164.12G

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S 19(1)	1947	12 H	12

ORIGINAL SURVEY		FINAL SURVEY	
SURVEYED	Mauney	SURVEYED	
PLOTTED	"	PLOTTED	
TEMPLATE	"	TEMPLATE	
NOTE BOOK	E.C. Fung	NOTE BOOK	
PAGE	C.A. Lyons	PAGE	
NO.	Ent'd 12	NO.	
AREAS CHECKED		AREAS CHECKED	
BY	E.K. Strong	BY	
DATE		DATE	

REVISED Nov. 1947

C= 745²
F= 0²

Exc = 1653.7
Emb = 0

30.1

42+ 50

33.58

C= 1759² 1709²
F= 0²

C= 990²
F= 0²

56.2

44+ 50

33.13

Exc = 1613.5
Emb = 0

C= 1116²
F= 0²

Exc = 2772.3
Emb = 0

65.5

42+ 00

33.57

C= 1256
F= 0

56.6

44+ 00

33.35

Exc = 1950.1
Emb = 0

C= 1799² 2483
F= 0²

Exc = 4,066.7
Emb = 0

78.8

41+ 50

33.51

C= 609²
F= 0²

58.0

43+ 50

33.47

Exc = 2196.3
Emb = 0

46.6

43+ 00

33.54

Exc = 1726.8
Emb = 0

PLATE 1 CROSS SECTION A. A. S. H. O. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 349-3 MADE IN U. S. A.

3164.12H

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S19(1)	1947	121	12

FINAL SURVEY		BY	DATE
	SURVEYED	E.K. Stone	Nov. 1947
	PLOTTED	"	"
NOTE BOOK	TEMPLATE	L.C. Laup & A. Lewis	"
	AREAS	C.N. Case	Aug. '48
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED	E.K. Stone	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

REVISED Nov. 1947

C = 318
F = 0

Exc = 427.8
Emb = 0.0

Sta. 46+50 Exc = 427.8
Sta. 47+00 Exc = 235.20

C = 190
F = 0

Exc = 470.4
Emb = 0.0

C = 334
F = 0

Exc = 485.2
Emb = 0.0

C = 758
F = 0

Exc = 1011.1
Emb = 0.0

C = 0
F = 97

Exc = 0.0
Emb = 256.5

C = 14
F = 61

Exc = 13.0
Emb = 146.3

C = 77
F = 26

Exc = 84.3
Emb = 80.6

C = 144
F = 0

Exc = 204.6
Emb = 24.1

PLATE 3 - CROSS SECTION C.P.R. & R.E. STANDARD
NEUTTEL & FOSTER CO., NEW YORK
K & E CO. No. 345-3 MADE IN U. S. A.

5164.121

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	NO. SHEETS
HAWAII	HAW	S19(1)	1947	12	12

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

BY E.K. Stone, E.S. Ende, E. Ebert, A. Leong, E. Vincent — DATE Nov. '46, " , Nov. '47

EK 3/4 inch

REVISED Nov. 1947

C= 0
F=302
Exc = 0.0
Emb=583.3
25.4 29.22
51+ 00

C= 0
F=328
Exc = 0.0
Emb=530.6
25.5 29.54
50+ 50

C= 0
F=245
Exc = 0.0
Emb=445.4
25.8 29.86
50+ 00

C= 0
F=236
Exc = 0.0
Emb=385.2
26.3 30.18
49+ 50

C= 0
F=180
Exc = 0.0
Emb=
27.3 30.50
49+ 00

C= 0
F= 0
Exc =54.6
Emb= 0.0
25.7 26.14
54+ 00

C= 59
F= 0
Exc =114.8
Emb= 0.0
27.6 26.97
53+ 50

C= 65
F= 0
Exc = 72.2
Emb= 5.6
27.5 27.65
53+ 00

C= 13
F= 6
Exc = 17.6
Emb= 23.2
27.8 28.19
52+ 50

C= 6
F= 19
Exc = 3.9
Emb= 9.9
27.6 28.37
52+ 32.64

C= 6
F= 11
Exc = 7.8
Emb=65.1
27.0 28.58
52+ 00

C= 7
F= 98
Exc = 6.5
Emb=300.0
26.9 28.90
51+ 50

C= 0
F=226
Exc = 0.0
Emb=488.9

PLATE 5 CROSS SECTIONS U.S.A. & B.P.R. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U. S. A.

5164.125

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	519(1)	1947	12K	12

FINAL SURVEY	BY	DATE
SURVEYED	E.K. Stone	Nov. 1947
PLOTTED	C.C. Fauth	"
TEMPLATE	Lucas & Lewis	"
AREAS	Sverdrup & Parcel	Aug. 1948
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED	E.K. Stone	
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

REVISED Nov. 1947

C= 994
F= 0°

450

34.0

14+00

Exc = ~~660.8~~ 759.3
Emb = 0

C= 846°
F= 0°

436

32.60

0+75

Exc = ~~791.4~~ 840.4
Emb = 0

C= 969°
F= 0°

419

31.75

0+30

Exc = 624.8
Emb = 0

C= 1880
F=

451

0+30

Exc = 488.9
Emb = 0

C= 0
F= 0

446

P.C. 0+00 = 30ft Left of
℄ Sta. 36+77.50

C= 2473
F= 0°

557

51.60

3+00

Exc = 546.3
Emb = 0

C= 343°
F= 0°

530

47.60

2+50

Exc = 721.3
Emb = 0

C= 436°
F= 0°

504

43.60

2+00

Exc = 967.6
Emb = 0

C= 609°
F= 0°

477

39.60

1+50

Exc = 174.3
Emb = 0

C= 527°
F= 0°

492

41.04

P.T. 1+

Exc = 397.6
Emb = 0

C= 759°
F= 0°

469

35.60

1+25

Exc = ~~625.0~~ 718.2
Emb = 0

APPROACH TO CAMP CATLIN

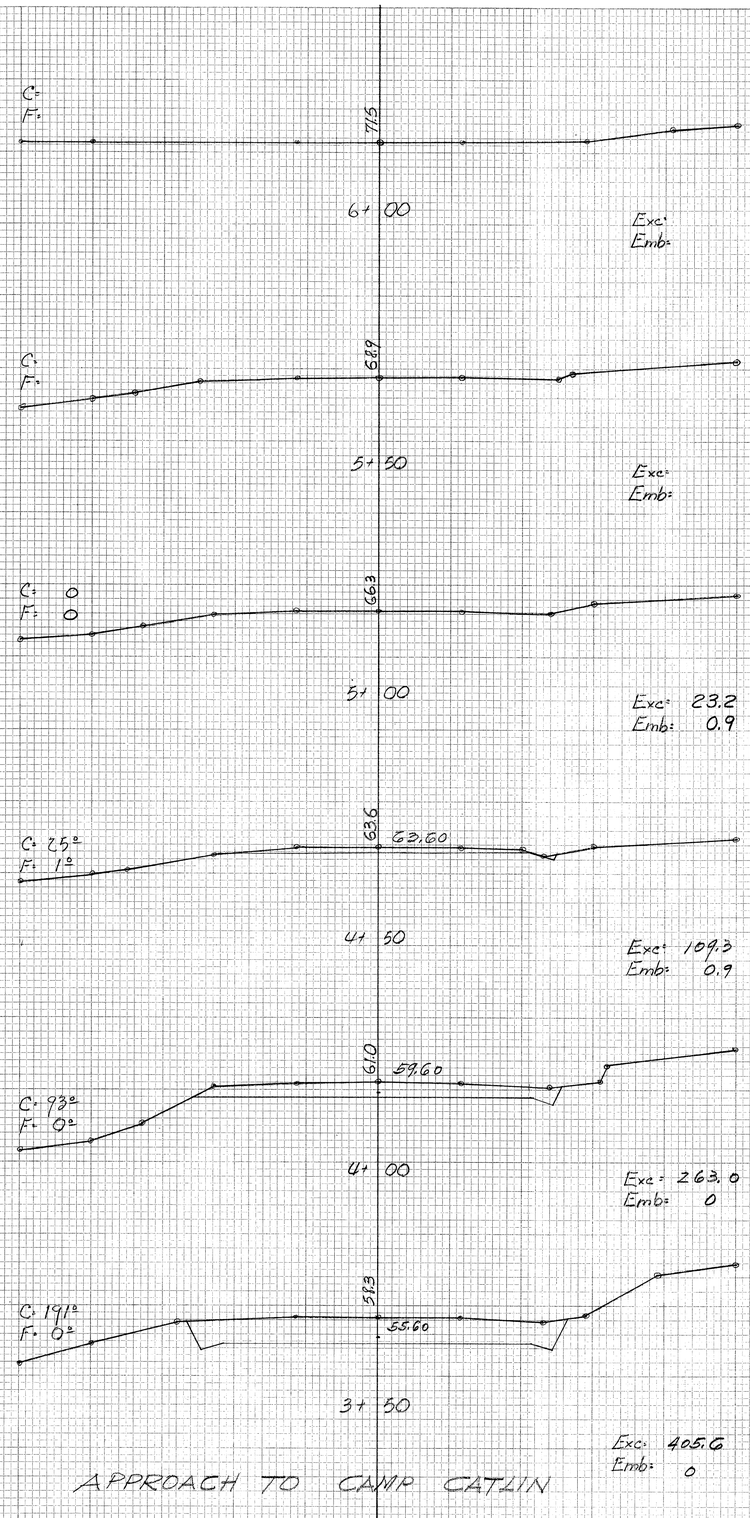
PLATE 1 ACROSS SECTION GRAPH U.S.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK
K & E CO. No. 345-3 MADE IN U.S.A.

5164.12K

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S 19(1)	1947	12L	12

FINAL SURVEY	BY	DATE
SURVEYED	E.K. STONE	Nov 1947
PLOTTED	"	"
TEMPLATE	C.C. CRAUER & A. LEONG	"
NOTE BOOK	AREAS	G.A. CAGE
NO.	AREAS CHECKED	

REVISED NOV. 1947



ORIGINAL SURVEY	BY	DATE
SURVEYED	E.K. STONE	
PLOTTED		
TEMPLATE		
NOTE BOOK		
NO.	AREAS CHECKED	

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

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

5164.12L