FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	WRS-11A	1933	19	31

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

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

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

4301

4301.19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NRS 17-A	1953	20	31

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

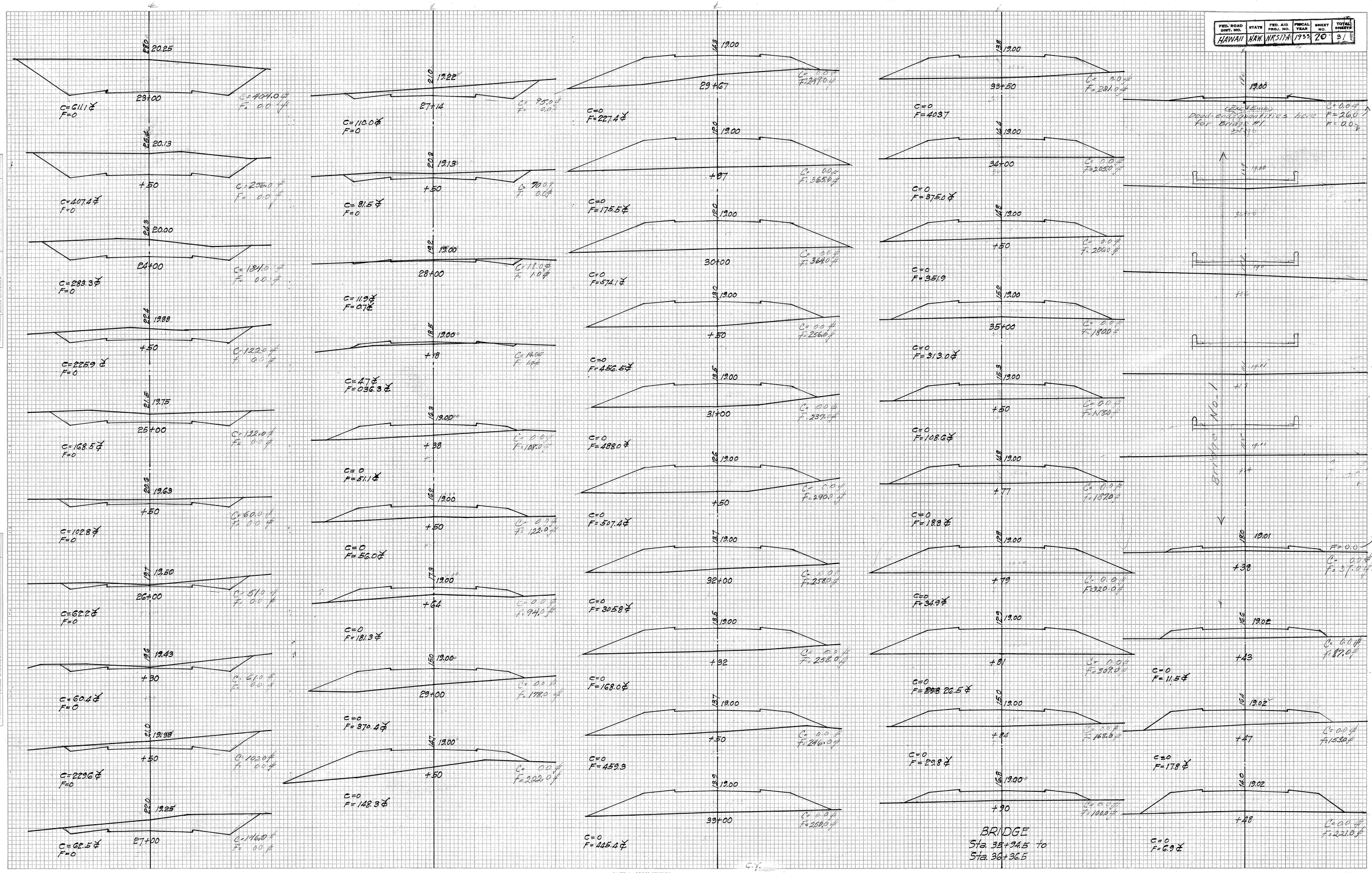


PLATE 3—CROSS SECTION D. P. R. & R. E. STANDARD
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4301.20

Sheet 3 of

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	WR317-A	1933	21	31

Note: Dashed line Sections are final where shown.

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

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

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
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4301.21

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NRS 17-A	1953	22	31

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

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

56+00
34.00 / 37.40
367.6 = C = 82.4 ℄
0 = F = 0
C = 204.0 #
F = 0.0 #

+50
34.25 / 37.70
317.6 = C = 39.8 ℄
0 = F = 46.6 ℄
C = 193.0 #
F = 0.0 #

57+00
34.49 / 38.0
270.4 = C = 46 ℄
0 = F = 24.1 ℄
C = 150.0 #
F = 0.0 #

+50
34.74 / 38.30
251.9 = C = 1.9 ℄
0 = F = 35.2 ℄
C = 142.0 #
F = 0.0 #

58+00
34.98 / 38.60
246.3 = C = 6.9 ℄
0 = F = 38.8 ℄
C = 130.0 #
F = 0.0 #

+50
35.23 / 38.90
256.0 = C = 0.3 ℄
0 = F = 53.7 ℄
C = 136.0 #
F = 0.0 #

59+00
35.47 / 39.20
250.9 = C = 1.9 ℄
0 = F = 54.6 ℄
C = 134.0 #
F = 0.0 #

+50
35.72 / 39.41
275.0 = C = 7.4 ℄
0 = F = 26.9 ℄
C = 137.0 #
F = 0.0 #

60+00
35.96 / 39.45
296.3 = C = 23.6 ℄
0 = F = 2.7 ℄
C = 160.0 #
F = 0.0 #

+50
36.21 / 39.32
280.6 = C = 50.8 ℄
0 = F = 0
C = 160.0 #
F = 0.0 #

61+00
36.86 / 39.00
263.9 = C = 78.7 ℄
0 = F = 0
C = 173.0 #
F = 0.0 #

+50
36.30 / 38.48
276.9 = C = 119.4 ℄
0 = F = 0
C = 142.0 #
F = 0.0 #

62+00
36.04 / 37.88
316.7 = C = 168.5 ℄
0 = F = 0
C = 157.0 #
F = 0.0 #

+50
35.57 / 37.00
380.8 = C = 178.7 ℄
0 = F = 0
C = 185.0 #
F = 0.0 #

+68
35.00 / 36.28
213 = C = 91.2 ℄
0 = F = 0
C = 214.0 #
F = 0.0 #

+96
34.97 / 36.12
28.7 = C = 13.8 ℄
0 = F = 0
C = 200.0 #
F = 0.0 #

63+00
32.92 / 36.04
342.6 = C = 257.4 ℄
0 = F = 0
C = 188.0 #
F = 0.0 #

+50
34.04 / 34.88
346.3 = C = 242.4 ℄
0 = F = 0
C = 182.0 #
F = 0.0 #

64+00
32.98 / 33.54
322.2 = C = 273.2 ℄
0 = F = 0.00
C = 192.0 #
F = 0.0 #

+50
31.69 / 32.82
170.4 = C = 148.2 ℄
0 = F = 0
C = 156.0 #
F = 0.0 #

65+00
30.33 / 30.5
C = 25.9 ℄
F = 150.0 ℄
C = 28.0 #
F = 0.0 #

+50
28.55 / 29.3
C = 0
F = 265.7 ℄
C = 0.0 #
F = 162.0 #

66+00
26.76 / 23.1
C = 0
F = 218.5 ℄
C = 0.0 #
F = 126.0 #

+50
25.00 / 22.2
C = 0
F = 189.8 ℄
C = 0.0 #
F = 111.0 #

67+00
23.22 / 22.7
C = 0
F = 152.8 ℄
C = 0.0 #
F = 94.0 #

+50
21.44 / 19.33
C = 0
F = 104.6 ℄
C = 0.0 #
F = 71.0 #

68+00
19.67 / 17.3
C = 86.1 ℄
F = 38.9 ℄
C = 0.0 #
F = 42.0 #

+50
17.98 / 13.9
C = 87.0 ℄
F = 19.4 ℄
C = 93.0 #
F = 0.0 #

69+00
16.46 / 15.7
C = 0.9 ℄
F = 74.1 ℄
C = 1.0 #
F = 21.0 #

+50
15.13 / 13.8
C = 0
F = 110.2 ℄
C = 0.0 #
F = 71.0 #

70+00
13.98 / 12.3
C = 0
F = 121.3 ℄
C = 0.0 #
F = 80.0 #

+50
13.04 / 11.5
C = 0
F = 173.2 ℄
C = 0.0 #
F = 71.0 #

71+00
12.18 / 9.1
C = 0
F = 258.3 ℄
C = 0.0 #
F = 116.0 #

+50
11.60 #57 / 7.5
C = 0
F = 331.5 ℄
C = 0.0 #
F = 160.0 #

72+00
11.11 #105 / 6.8
C = 0
F = 337.0 ℄
C = 0.0 #
F = 141.0 #

+50
10.83 / 5.9
C = 0
F = 317.6 ℄
C = 0.0 #
F = 169.0 #

73+00
10.73 / 6.8
C = 0
F = 300.0 ℄
C = 0.0 #
F = 174.0 #

+50
10.81 / 6.4
C = 0
F = 257.4 ℄
C = 0.0 #
F = 140.0 #

74+00
10.06 / 7.6
C = 0
F = 197.2 ℄
C = 0.0 #
F = 120.0 #

+50
11.41 / 9.8
C = .9 ℄
F = 136.1 ℄
C = 0.0 #
F = 85.0 #

75+00
11.75 / 12.0
C = .9 ℄
F = 116.7 ℄
C = 1.0 #
F = 62.0 #

+50
12.09 / 10.7
C = 0
F = 92.6 ℄
C = 0.0 #
F = 64.0 #

76+00
12.44 / 11.7
C = 5.6 ℄
F = 40.7 ℄
C = 0.0 #
F = 36.0 #

+50
12.78 / 12.3
C = 6.5 ℄
F = 16.7 ℄
C = 6.0 #
F = 8.0 #

77+00
13.13 / 13.0
C = 27.8 ℄
F = 9.3 ℄
C = 1.0 #
F = 10.0 #

+50
13.47 / 13.8
C = 138.0 ℄
F = 0
C = 29.0 #
F = 0.0 #

78+00
13.81 / 14.7
C = 276.9 ℄
F = 0
C = 120.0 #
F = 0.0 #

+50
14.16 / 15.2
C = 373.5 ℄
F = 0
C = 179.0 #
F = 0.0 #

79+00
14.50 / 15.2
C = 407.4 ℄
F = 0
C = 197.0 #
F = 0.0 #

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

4301

4301.22

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	WRS 17-A	1933	23	37

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

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

22.1 14.84 — 79+50 — C= 249.0 #, F= 0.5 #
C= 440.7 ℄, F= 0

20.7 15.19 — 80+00 — C= 278.0 #, F= 0.0 #
C= 322.2 ℄, F= 0

18.0 15.53 — +50 — C= 120.0 #, F= 0.0 #
C= 161.1 ℄, F= 0

16.7 15.88 — 81+00 — C= 54.0 #, F= 0.0 #
C= 98.2 ℄, F= 0

17.1 16.22 — +50 — C= 5.20 #, F= 0.0 #
C= 143.5 ℄, F= 0

18.9 16.56 — 82+00 — C= 103.0 #, F= 0.0 #
C= 212.0 ℄, F= 0

19.9 16.91 — +50 — C= 126.9 #, F= 0.0 #
C= 285.2 ℄, F= 0

21.5 17.25 — 83+00 — C= 187.0 #, F= 0.0 #
C= 317.6 ℄, F= 0

21.8 17.59 — +50 — C= 161.0 #, F= 0.0 #
C= 282.0 ℄, F= 0

19.7 17.94 — 84+00 — C= 99.0 #, F= 0.0 #
C= 150.0 ℄, F= 0

19.3 18.28 — 84+50 — C= 64.0 #, F= 0.0 #
C= 97.2 ℄, F= 0

19.2 18.63 — 85+00 — C= 41.0 #, F= 0.0 #
C= 70.4 ℄, F= .9 ℄

20.0 18.97 — +50 — C= 7.0 #, F= 1.0 #
C= 87.0 ℄, F= .9 ℄

20.2 19.31 — 86+00 — C= 7.0 #, F= 1.0 #
C= 104.6, F= 0

20.3 19.66 — +50 — C= 14.0 #, F= 0.0 #
C= 66.7 ℄, F= 2.8 ℄

22.2 20.00 — 87+00 — C= 18.0 #, F= 3.0 #
C= 17.6 ℄, F= 41.7 ℄

19.1 20.10 — +50 — C= 1.0 #, F= 42.0 #
C= 30.6 ℄, F= 38.9 ℄

22.2 20.20 — 88+00 — C= 32.0 #, F= 0.0 #
C= 82.4 ℄, F= 0

21.3 20.30 — +50 — C= 7.0 #, F= 0.0 #
C= 134.3 ℄, F= 0

22.4 20.40 — 89+00 — C= 88.0 #, F= 0.0 #
C= 139.8 ℄, F= 0

22.1 20.50 — 89+50 — C= 63.0 #, F= 0.3 #
C= 133.3 ℄, F= 0

22.7 20.60 — 90+00 — C= 79.0 #, F= 0.0 #
C= 140.7 ℄, F= 0

22.5 20.70 — +50 — C= 73.0 #, F= 0.0 #
C= 151.9 ℄, F= 0

22.6 20.80 — 91+00 — C= 91.0 #, F= 0.0 #
C= 128.7 ℄, F= 0

21.4 20.90 — +50 — C= 45.0 #, F= 0.0 #
C= 45.4 ℄, F= 36.1 ℄

19.8 21.00 — 92+00 — C= 1.0 #, F= 39.0 #
C= .9 ℄, F= 87.0 ℄

19.3 21.10 — +50 — C= 2.0 #, F= 57.0 #
C= 0, F= 84.9 ℄

19.9 21.17 — +85 — C= 0.0 #, F= 76.0 #
C= 0.6 ℄, F= 36.4 ℄

19.7 21.20 — 93+00 — C= 2.0 #, F= 57.0 #
C= 0.8 ℄, F= 45.2 ℄

20.7 21.24 — +22 — C= 0.0 #, F= 7.60 #
C= 0, F= 75.2 ℄

18.9 21.30 — 93+50 — C= 0.0 #, F= 89.0 #
C= 0, F= 50.1 ℄

19.7 21.33 — +66 — C= 0.0 #, F= 80.0 #
C= 0, F= 144.2 ℄

17.7 21.40 — 94+00 — C= 0.0 #, F= 149.0 #
C= 0, F= 247.2 ℄

18.1 21.50 — +50 — C= 0.0 #, F= 119.0 #
C= 0, F= 241.7 ℄

20.4 21.60 — 95+00 — C= 0.0 #, F= 143.0 #
C= 0.7 ℄, F= 64.1 ℄

21.9 21.64 — +20 — C= 2.0 #, F= 30.0 #
C= 3.3 ℄, F= 31.1 ℄

21.2 21.70 — +50 — C= 4.0 #, F= 20.0 #
C= 9.2 ℄, F= 21.3 ℄

21.8 21.75 — +75 — C= 16.0 #, F= 20.0 #
C= 7.9 ℄, F= 29.6 ℄

20.5 21.80 — 96+00 — C= 1.0 #, F= 44.0 #
C= 2.8 ℄, F= 69.4 ℄

20.3 21.90 — +50 — C= 2.0 #, F= 31.0 #
C= 1.9 ℄, F= 70.4 ℄

20.8 22.00 — 97+00 — C= 0.0 #, F= 45.0 #
C= 0, F= 89.8 ℄

20.9 22.10 — +50 — C= 0.0 #, F= 72.0 #
C= 0, F= 80.6 ℄

21.2 22.20 — 98+00 — C= 0.0 #, F= 36.0 #
C= 0, F= 71.3 ℄

21.3 22.30 — +50 — C= 0.0 #, F= 43.0 #
C= 0.9 ℄, F= 67.6 ℄

21.5 22.40 — 99+00 — C= 1.0 #, F= 31.0 #
C= 23.2 ℄, F= 29.6 ℄

23.2 22.56 — +50 — C= 0.0 #, F= 10.0 #
C= 51.9 ℄, F= 0.9 ℄

23.3 22.84 — 100+00 — C= 52.0 #, F= 0.0 #
C= 76.9 ℄, F= 0

24.4 23.24 — +50 — C= 41.0 #, F= 2 ℄ #
C= 115.7 ℄, F= 0

25.0 23.76 — 101+00 — C= 14.0 #, F= 0.0 #
C= 146.3 ℄, F= 0

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

4301

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Sheet 6 of 12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	NR 317-A	1933	24	31

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

FINAL SURVEY — DATE, BY

101+50
C= 148.2 ℄
F= 0
C= 181.5 ℄
F= 0
C= 103.0 ℄
F= 0
C= 34.7 ℄
F= 3.6 ℄
C= 12.0 ℄
F= 9.6 ℄
C= 7.1 ℄
F= 18.2 ℄
C= 7.2 ℄
F= 33.2 ℄
C= 4.6 ℄
F= 1.1 ℄
C= 37.3 ℄
F= 2.3 ℄
C= 32.4 ℄
F= 1.9 ℄

102+00
C= 10.0 ℄
F= 2.2 ℄
C= 19.4 ℄
F= 50.0 ℄
C= 0.9 ℄
F= 113.0 ℄
C= 0
F= 145.4 ℄
C= .9 ℄
F= 137.0 ℄
C= 7.4 ℄
F= 99.1 ℄
C= 16.7 ℄
F= 55.6 ℄
C= 33.3 ℄
F= 22.2 ℄
C= 48.2 ℄
F= 4.6 ℄
C= 26.9 ℄
F= 9.3 ℄
C= 5.6 ℄
F= 13.0 ℄

103+88
C= 3.0 ℄
F= 1.6 ℄
C= 15.3 ℄
F= 1.8 ℄
C= 18.1 ℄
F= 1.0 ℄
C= 1.9 ℄
F= 0.6 ℄
C= 5.3 ℄
F= 6.0 ℄
C= 3.0 ℄
F= 6.0 ℄
C= 13.9 ℄
F= 62.0 ℄
C= 10.0 ℄
F= 15.0 ℄
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

104+00
C= 109.3 ℄
F= 5.6 ℄
C= 191.7 ℄
F= 0
C= 275.0 ℄
F= 0
C= 342.6 ℄
F= 0
C= 385.2 ℄
F= 0
C= 421.3 ℄
F= 0
C= 454.6 ℄
F= 0
C= 477.8 ℄
F= 0
C= 464.8 ℄
F= 0
C= 425.0 ℄
F= 0

105+00
C= 350.0 ℄
F= 0
C= 250.0 ℄
F= 0
C= 175.0 ℄
F= 0
C= 124.1 ℄
F= 0
C= 88.0 ℄
F= 0
C= 40.7 ℄
F= 37 ℄
C= 6.5 ℄
F= 13.9 ℄
C= 8.3 ℄
F= 13.3 ℄
C= 0.8 ℄
F= 2.7 ℄

106+00
C= 7.1 ℄
F= 99.1 ℄
C= 16.7 ℄
F= 55.6 ℄
C= 33.3 ℄
F= 22.2 ℄
C= 48.2 ℄
F= 4.6 ℄
C= 26.9 ℄
F= 9.3 ℄
C= 5.6 ℄
F= 13.0 ℄

107+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

108+00
C= 26.9 ℄
F= 9.3 ℄
C= 5.6 ℄
F= 13.0 ℄

109+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

110+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

111+00
C= 109.3 ℄
F= 5.6 ℄
C= 191.7 ℄
F= 0
C= 275.0 ℄
F= 0
C= 342.6 ℄
F= 0
C= 385.2 ℄
F= 0
C= 421.3 ℄
F= 0
C= 454.6 ℄
F= 0
C= 477.8 ℄
F= 0
C= 464.8 ℄
F= 0
C= 425.0 ℄
F= 0

112+00
C= 350.0 ℄
F= 0
C= 250.0 ℄
F= 0
C= 175.0 ℄
F= 0
C= 124.1 ℄
F= 0
C= 88.0 ℄
F= 0
C= 40.7 ℄
F= 37 ℄
C= 6.5 ℄
F= 13.9 ℄
C= 8.3 ℄
F= 13.3 ℄
C= 0.8 ℄
F= 2.7 ℄

113+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

114+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

115+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

116+00
C= 350.0 ℄
F= 0
C= 250.0 ℄
F= 0
C= 175.0 ℄
F= 0
C= 124.1 ℄
F= 0
C= 88.0 ℄
F= 0
C= 40.7 ℄
F= 37 ℄
C= 6.5 ℄
F= 13.9 ℄
C= 8.3 ℄
F= 13.3 ℄
C= 0.8 ℄
F= 2.7 ℄

117+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

118+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

119+00
C= 111.1 ℄
F= 82.4 ℄
C= 32.4 ℄
F= 85.2 ℄

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

4301.24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	WRS1(7)	1933	25	31

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

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

119+83 — 46.51 — C= 2.0 ¢ F=36.0 ¢ — C= .7 ¢ F= 24.9 ¢

120+00 — 46.41 — C= 0.0 ¢ F= 43.0 ¢ — C= 1.1 ¢ F= 47.8 ¢

+89 — 46.23 — C= 2.0 ¢ F=46.0 ¢ — C= .7 ¢ F= 24.3 ¢

+39 — 46.17 — C= 2.0 ¢ F=85.0 ¢ — C= .4 ¢ F= 40.7 ¢

+50 — 46.11 — C= 0.0 ¢ F=115.0 ¢ — C= 0 F= 200.9 ¢

121+00 — 45.80 — C= 0.0 ¢ F=102.0 ¢ — C= 0 F= 21.9 ¢

+06 — 45.76 — C= 0.0 ¢ F=95.0 ¢ — C= 0 F= 21.3 ¢

+11 — 45.73 — C= 0.0 ¢ F=135.0 ¢ — C= 0 F= 172.6 ¢

+50 — 45.49 — C= 0.0 ¢ F=104.0 ¢ — C= 0 F= 183.3 ¢

122+00 — 45.19 — C= 0.0 ¢ F= 94.0 ¢ — C= 0 F= 141.7 ¢

122+50 — 44.98 — C= 0.0 ¢ F= 89.0 ¢ — C= 3.0 ¢ F= 123.7 ¢

+90 — 44.64 — C= 4.0 ¢ F=174.0 ¢ — C= 2.0 ¢ F= 18.5 ¢

123+00 — 44.58 — C= 7.0 ¢ F=127.0 ¢ — C= 2.8 ¢ F= 13.8 ¢

+11 — 44.51 — C= 7.0 ¢ F=21.0 ¢ — C= 25.3 ¢ F= 15.2 ¢

+50 — 44.27 — C= 7.0 ¢ F= 0.0 ¢ — C= 38.0 ¢ F= 2.8 ¢

124+00 — 43.97 — C= 13.0 ¢ F= 3.0 ¢ — C= 62.9 ¢ F= 1.8 ¢

+33 — 43.76 — C= 20.0 ¢ F= 0.0 ¢ — C= 6.3 ¢ F=0

+35 — 43.73 — C= 7.0 ¢ F= 0.0 ¢ — C= 23.2 ¢ F= 0

+42 — 43.69 — C= 7.0 ¢ F= 0.0 ¢ — C= 33.3 ¢ F= 0

+50 — 43.64 — C= 12.5.0 ¢ F= 0.0 ¢ — C= 168.1 ¢ F= 0

126+50 — 43.13 — C= 14.0 ¢ F= 0.0 ¢ — C= 27.3 ¢ F=0

+90 — 43.40 — C= 0.0 ¢ F= 0.0 ¢ — C= 37.5 ¢ F=0

+98 — 43.35 — C= 14.7.0 ¢ F= 0.0 ¢ — C= 11.0 ¢ F= 0

125+00 — 43.34 — C= 14.7.0 ¢ F= 0.0 ¢ — C= 88.3 ¢ F= 0

+16 — 43.24 — C= 14.7.0 ¢ F= 0.0 ¢ — C= 44.6 ¢ F= 0

+24 — 43.19 — C= 14.2.0 ¢ F= 0.0 ¢ — C= 28.9 ¢ F= 0

+29 — 43.16 — C= 16.0.0 ¢ F= 0.0 ¢ — C= 36.2 ¢ F= 0

+35 — 43.12 — C= 16.6.0 ¢ F= 0.0 ¢ — C= 98.0 ¢ F= 0

+50 — 43.03 — C= 18.7.0 ¢ F= 0.0 ¢ — C= 388.9 ¢ F= 0

126+00 — 42.73 — C= 23.5.0 ¢ F= 0.0 ¢ — C= 438.9 ¢ F= 0

126+50 — 42.42 — C= 28.1.0 ¢ F= 0.0 ¢ — C= 460.2 ¢ F= 0

127+00 — 42.11 — C= 27.6.0 ¢ F= 0.0 ¢ — C= 466.7 ¢ F= 0

+50 — 41.81 — C= 17.8.0 ¢ F= 0.0 ¢ — C= 139.5 ¢ F= 0

+66 — 41.70 — C= 22.9.0 ¢ F= 0.0 ¢ — C= 47.2 ¢ F= 0

+72 — 41.65 — C= 24.2.0 ¢ F= 0.0 ¢ — C= 51.8 ¢ F= 0

+79 — 41.59 — C= 19.8.0 ¢ F= 0.0 ¢ — C= 30.7 ¢ F= 0

+93 — 41.56 — C= 21.6.0 ¢ F= 0.0 ¢ — C= 135.7 ¢ F= 0

128+00 — 41.43 — C= 21.7.0 ¢ F= 0.0 ¢ — C= 422.2 ¢ F= 0

+50 — 40.92 — C= 29.1.0 ¢ F= 0.0 ¢ — C= 35.1.9 ¢ F= 0

129+00 — 40.25 — C= 13.9.0 ¢ F= 0.0 ¢ — C= 132.8 ¢ F= 0

129+34 — 39.66 — C= 12.0 ¢ F= 0.0 ¢ — C= 13.9 ¢ F= 0

+40 — 39.57 — C= 13.0 ¢ F= 0.0 ¢ — C= 15.2 ¢ F= 0

+50 — 39.46 — C= 29.0 ¢ F= 0.0 ¢ — C= 40.2 ¢ F= 0

+81 — 38.84 — C= 41.0 ¢ F= 0.0 ¢ — C= 26.0 ¢ F= 0

130+00 — 38.45 — C= 33.0 ¢ F= 0.0 ¢ — C= 80.6 ¢ F= 0

+50 — 37.45 — C= 17.0 ¢ F= 0.0 ¢ — C= 7.5 ¢ F= 0

+54 — 37.35 — C= 49.0 ¢ F= 0.0 ¢ — C= 4.7 ¢ F= 0.1 ¢

+57 — 37.28 — C= 35.0 ¢ F= 1.0 ¢ — C= 17.9 ¢ F= 24.3 ¢

+79 — 36.77 — C= 9.0 ¢ F= 16.0 ¢ — C= 0.7 ¢ F= 11.5

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

4301

4301.25

Sheet 8 of

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NRS 17(A)	1933	26	31

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

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

130+88 — 36.60 — C= 1.0 ℄ F= 99.5 ℄
C= 0.3 ℄ F= 81.2 ℄

131+00 — 36.17 — C= 0.0 ℄ F= 196.0 ℄
C= 0 F= 141.5 ℄

+80 — 35.79 — C= 0.0 ℄ F= 223.0 ℄
C= 0 F= 281.1 ℄

+50 — 34.87 — C= 0.0 ℄ F= 283.0 ℄
C= 0 F= 634.3 ℄

132+00 — 33.36 — C= 0.0 ℄ F= 402.0 ℄
C= 0 F= 799.1 ℄

+50 — 31.72 — C= 0.0 ℄ F= 461.0 ℄
C= 0 F= 323.1 ℄

133+00 — 29.93 — C= 0.0 ℄ F= 536.0 ℄
C= 0 F= 396.3 ℄

+50 — 28.00 — C= 0.0 ℄ F= 540.0 ℄
C= 0 F= 971.3 ℄

134+00 — 26.0 — C= 0.0 ℄ F= 509.0 ℄
C= 0 F= 870.4 ℄

134+50 — 24.09 — C= 0.0 ℄ F= 431.0 ℄
C= 0 F= 731.5 ℄

135+00 — 22.35 — C= 0.0 ℄ F= 359.0 ℄
C= 0 F= 559.3 ℄

+50 — 20.78 — C= 0.0 ℄ F= 245.0 ℄
C= 0 F= 395.4 ℄

136+00 — 19.40 — C= 0.0 ℄ F= 182.0 ℄
C= 0 F= 319.4 ℄

+50 — 18.26 — C= 0.0 ℄ F= 163.0 ℄
C= 0 F= 930.0 ℄

137+00 — 17.76 — C= 0.0 ℄ F= 88.0 ℄
C= 0 F= 90.0 ℄

+50 — 17.15 — C= 0.0 ℄ F= 74.0 ℄
C= 0.8 ℄ F= 73.3 ℄

+40 — 16.53 — C= 1.0 ℄ F= 82.0 ℄
C= 0.7 ℄ F= 8.3 ℄

+50 — 16.37 — C= 3.0 ℄ F= 20.0 ℄
C= 4.6 ℄ F= 38.9 ℄

138+00 — 15.62 — C= 2.0 ℄ F= 1.22.0 ℄
C= 28.1 F= 20.4

139+00 — 15.11 — C= 29.0 ℄ F= 0.0 ℄
C= 20.5 ℄ F= 0.5 ℄

+74 — 14.96 — C= 20.0 ℄ F= 1.0 ℄
C= 4.5 ℄ F= 0.1 ℄

+76 — 14.95 — C= 72.0 ℄ F= 0.0 ℄
C= 62.7 ℄ F= 0.5 ℄

139+00 — 14.79 — C= 67.0 ℄ F= 1.0 ℄
C= 139.8 ℄ F= 0.9 ℄

+50 — 14.64 — C= 81.0 ℄ F= 0.0 ℄
C= 172.2 ℄ F= 0

140+00 — 14.67 — C= 104.0 ℄ F= 0.0 ℄
C= 203.6 ℄ F= 0

+48 — 14.77 — C= 127.0 ℄ F= 0.0 ℄
C= 8.3 ℄ F= 0.1 ℄

+50 — 14.78 — C= 1.0 ℄ F= 1.0 ℄
C= 7.4 ℄ F= 0.1 ℄

+52 — 14.78 — C= 105.0 ℄ F= 1.0 ℄
C= 3.9 ℄ F= 0.1 ℄

+53 — 14.78 — C= 110.0 ℄ F= 0.0 ℄
C= 159.3 ℄ F= 5.2 ℄

141+00 — 14.89 — C= 73.0 ℄ F= 6.0 ℄
C= 118.5 ℄ F= 25.0 ℄

+50 — 15.00 — C= 51.0 ℄ F= 21.0 ℄
C= 81.5 ℄ F= 46.3 ℄

142+00 — 15.11 — C= 33.0 ℄ F= 71.0 ℄
C= 34.3 ℄ F= 66.7 ℄

+50 — 15.22 — C= 7.0 ℄ F= 43.0 ℄
C= 3.7 ℄ F= 125.9

143+00 — 15.33 — C= 0.0 ℄ F= 93.0 ℄
C= 0 F= 215.7 ℄

+50 — 15.44 — C= 0.0 ℄ F= 140.0 ℄
C= 0 F= 288.9 ℄

144+00 — 15.56 — C= 0.0 ℄ F= 192.0 ℄
C= 0 F= 392.6 ℄

+50 — 15.67 — C= 0.0 ℄ F= 232.0 ℄
C= 0 F= 449.1 ℄

145+00 — 15.78 — C= 0.0 ℄ F= 273.0 ℄
C= 0 F= 482.4

+50 — 15.89 — C= 0.0 ℄ F= 261.0 ℄
C= 0 F= 482.4 ℄

146+00 — 16.00 — C= 0.0 ℄ F= 216.0 ℄
C= 0 F= 484.3 ℄ F= 482.4 ℄

+50 — 16.11 — C= 0.0 ℄ F= 216.0 ℄
C= 0 F= 482.4 ℄ F= 423.2 ℄

147+00 — 16.22 — C= 0.0 ℄ F= 234.0 ℄
C= 0 F= 423.2 ℄ F= 323.2 ℄

+50 — 16.33 — C= 0.0 ℄ F= 142.0 ℄
C= 0 F= 323.2 F= 236.1 ℄

148+00 — 16.44 — C= 0.0 ℄ F= 107.0 ℄
C= 0 F= 236.1 ℄ F= 154.6 ℄

+50 — 16.55 — C= 0.0 ℄ F= 60.0 ℄
C= 7.4 ℄ F= 78.7 ℄

149+00 — 16.67 — C= 8.0 ℄ F= 25.0 ℄
C= 24.1 ℄ F= 31.5 ℄

+50 — 16.78 — C= 1.0 ℄ F= 9.0 ℄
C= 37.0 ℄ F= 8.3 ℄

150+00 — 16.89 — C= 22.0 ℄ F= 0.0 ℄
C= 46.3 ℄ F= 0.9 ℄

+50 — 17.00 — C= 11.0 ℄ F= 1.0 ℄
C= 55.6 ℄ F= 0.9 ℄

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

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4301.26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	NRS 17A	1933	27	31

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

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

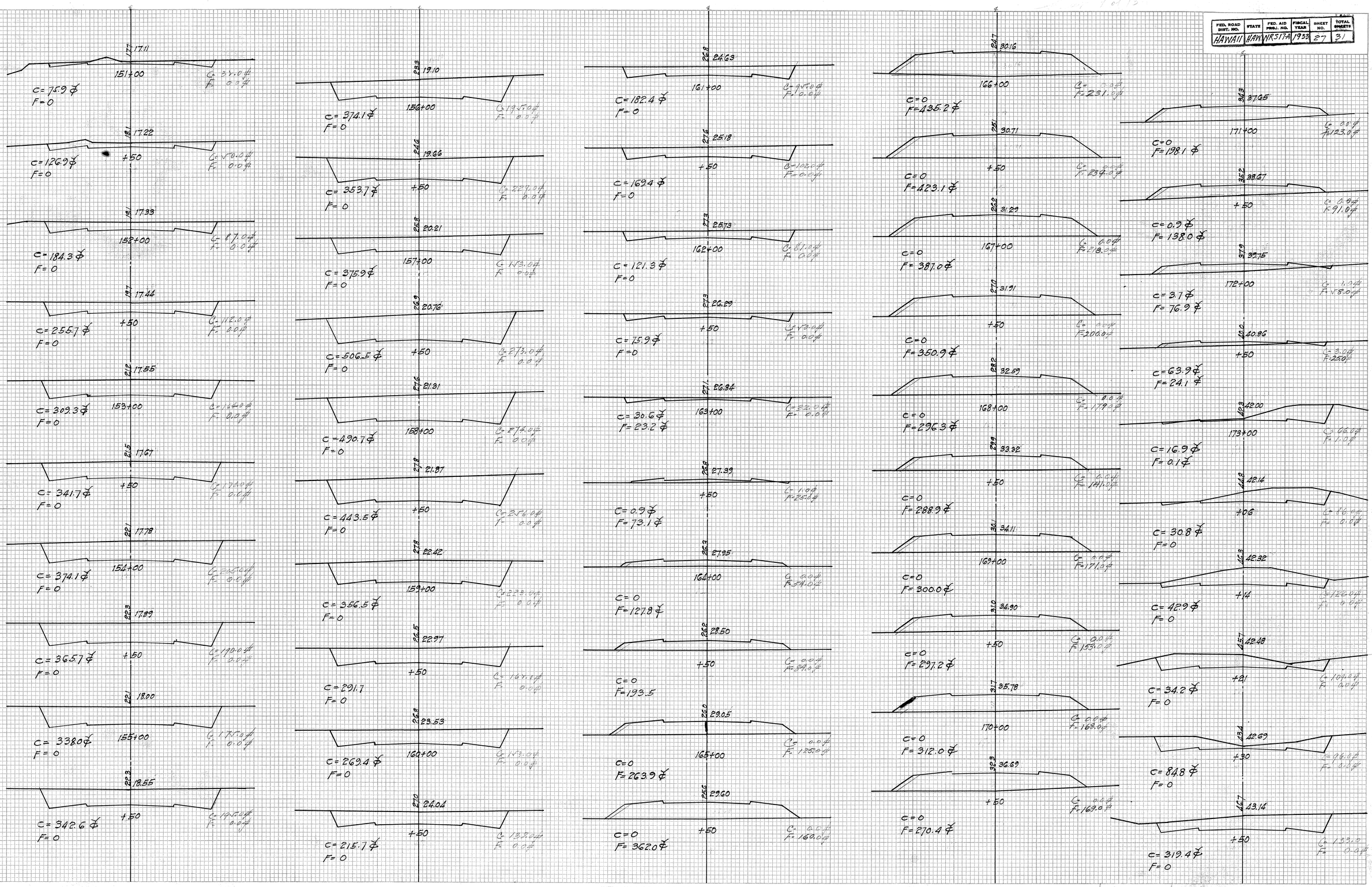


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4301

4301.27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NRS17-A	1933	28	31

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

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

174+00
C= 467.6 ⊄
F= 0
C= 212.0 ⊄
F= 0.0 ⊄
C= 542.6 ⊄
F= 0
C= 293.0 ⊄
F= 0.0 ⊄
175+00
C= 514.8 ⊄
F= 0
C= 293.0 ⊄
F= 0.0 ⊄
+50
C= 463.9 ⊄
F= 0
C= 260.0 ⊄
F= 0.0 ⊄
176+00
C= 371.3 ⊄
F= 0
C= 208.0 ⊄
F= 0.0 ⊄
+21
C= 16.4 ⊄
F= 0
C= 247.0 ⊄
F= 0.0 ⊄
+43
C= 22.2 ⊄
F= 0
C= 191.0 ⊄
F= 0.0 ⊄
+26
C= 17.6 ⊄
F= 0
C= 209.0 ⊄
F= 0.0 ⊄
+28
C= 19.3 ⊄
F= 0
C= 170.0 ⊄
F= 0.0 ⊄
+50
C= 36.9 ⊄
F= 0
C= 147.0 ⊄
F= 0.0 ⊄

176+52
C= 25.2 ⊄
F= 0
C= 211.0 ⊄
F= 0.0 ⊄
+57
C= 3.9 ⊄
F= 0
C= 203.0 ⊄
F= 0.0 ⊄
+58
C= 26.4 ⊄
F= 0
C= 211.0 ⊄
F= 0.0 ⊄
+81
C= 374.1 ⊄
F= 0
C= 211.0 ⊄
F= 0.0 ⊄
177+00
C= 383.0 ⊄
F= 0
C= 243.0 ⊄
F= 0.0 ⊄
+43
C= 18.1 ⊄
F= 0
C= 238.0 ⊄
F= 0.0 ⊄
+45
C= 28.3 ⊄
F= 0
C= 207.1 ⊄
F= 0.0 ⊄
+48
C= 9.7 ⊄
F= 0
C= 214.0 ⊄
F= 0.0 ⊄
+49
C= 8.8 ⊄
F= 0
C= 264.0 ⊄
F= 0.0 ⊄
+50
C= 441.7 ⊄
F= 0
C= 248.0 ⊄
F= 0.0 ⊄

178+00
C= 432.4 ⊄
F= 0
C= 229.0 ⊄
F= 0.0 ⊄
+50
C= 426.9 ⊄
F= 0
C= 231.0 ⊄
F= 0.0 ⊄
179+00
C= 428.7 ⊄
F= 0
C= 223.0 ⊄
F= 0.0 ⊄
+50
C= 431.6 ⊄
F= 0
C= 237.0 ⊄
F= 0.0 ⊄
180+00
C= 246.5 ⊄
F= 0
C= 227.0 ⊄
F= 0.0 ⊄
+32
C= 100.0 ⊄
F= 0
C= 189.0 ⊄
F= 0.0 ⊄
+50
C= 8.7 ⊄
F= 0
C= 111.0 ⊄
F= 0.0 ⊄
+52
C= 59.2 ⊄
F= 0
C= 123.0 ⊄
F= 0.0 ⊄
+69
C= 3.4 ⊄
F= 0.3 ⊄
C= 69.0 ⊄
F= 0.0 ⊄

180+71
C= 3.5 ⊄
F= 0.3 ⊄
C= 27.0 ⊄
F= 8.0 ⊄
+73
C= 55.5 ⊄
F= 0
C= 67.0 ⊄
F= 0.0 ⊄
181+00
C= 54.6 ⊄
F= 16.7 ⊄
C= 44.0 ⊄
F= 0.0 ⊄
+50
C= 4.6 ⊄
F= 78.7 ⊄
C= 17.0 ⊄
F= 18.0 ⊄
182+00
C= 0
F= 180.6 ⊄
C= 0.8 ⊄
F= 67.0 ⊄
+50
C= 0
F= 237.1 ⊄
C= 0.0 ⊄
F= 128.0 ⊄
183+00
C= 0
F= 80.0 ⊄
C= 0.0 ⊄
F= 128.0 ⊄
+18
C= 0
F= 12.4 ⊄
C= 0.0 ⊄
F= 112.0 ⊄
+22
C= 0.2 ⊄
F= 18.1 ⊄
C= 0.0 ⊄
F= 35.0 ⊄
+33
C= 0.2 ⊄
F= 22.5 ⊄
C= 1.0 ⊄
F= 34.0 ⊄

183+41
C= 0
F= 48.0 ⊄
C= 0.0 ⊄
F= 118.0 ⊄
+50
C= 0
F= 297.2 ⊄
C= 0.0 ⊄
F= 170.0 ⊄
184+00
C= 0
F= 250.9 ⊄
C= 0.0 ⊄
F= 151.0 ⊄
+50
C= 0
F= 207.4 ⊄
C= 0.0 ⊄
F= 120.0 ⊄
185+00
C= 0
F= 145.4 ⊄
C= 0.0 ⊄
F= 104.0 ⊄
+50
C= 20.4 ⊄
F= 49.1 ⊄
C= 0.0 ⊄
F= 53.0 ⊄
186+00
C= 72.2 ⊄
F= 0
C= 22.0 ⊄
F= 0.0 ⊄
+50
C= 132.4 ⊄
F= 0
C= 16.0 ⊄
F= 0.0 ⊄
187+00
C= 194.4 ⊄
F= 0
C= 1.7 ⊄
F= 0.0 ⊄

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

4301

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NR 317-A	1933	29	31

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

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

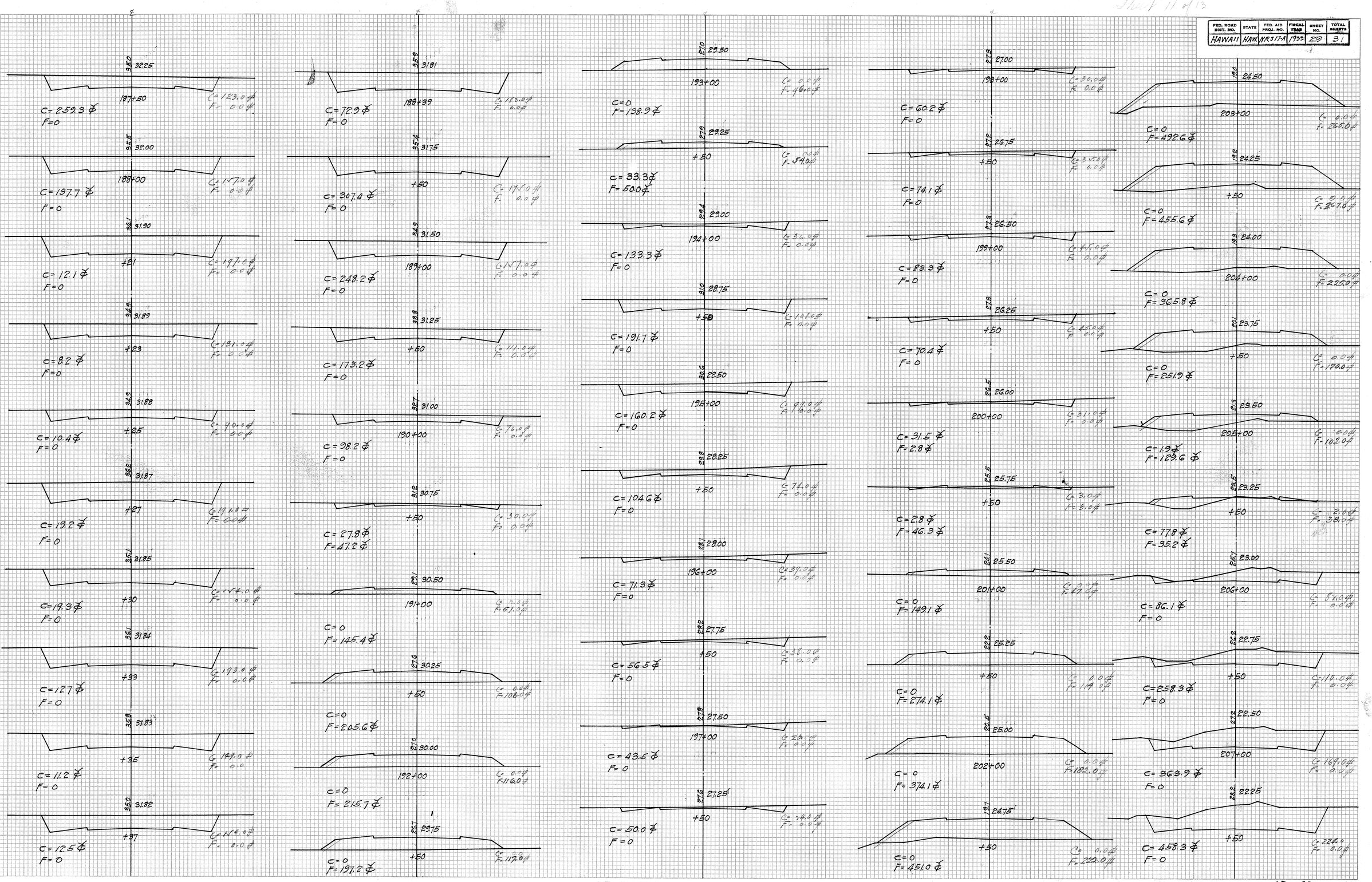


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4301.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	NR-31-A	1952	30	31

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

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

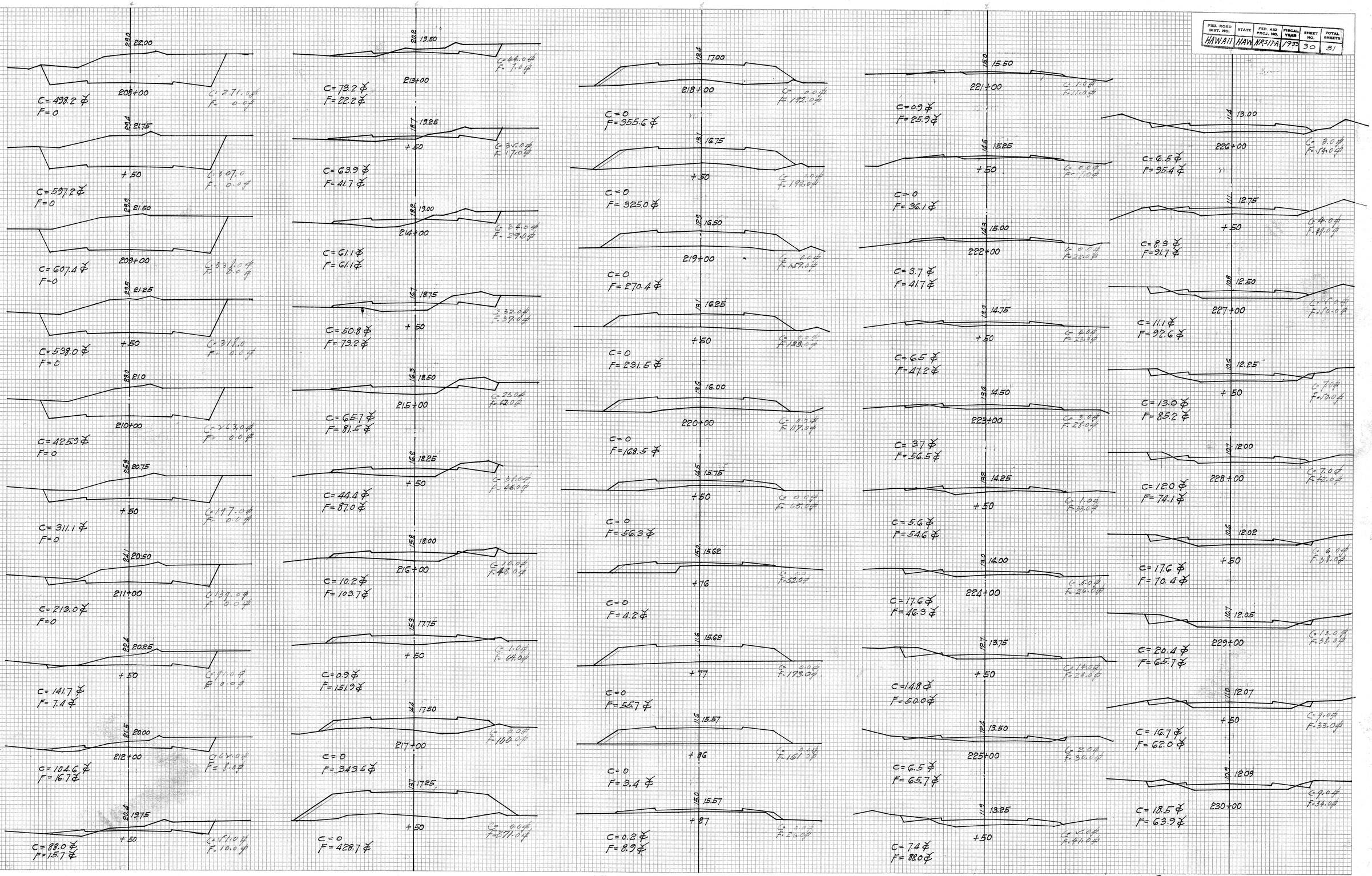


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4301.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	RS-1(7)A	1953	31	31

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

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

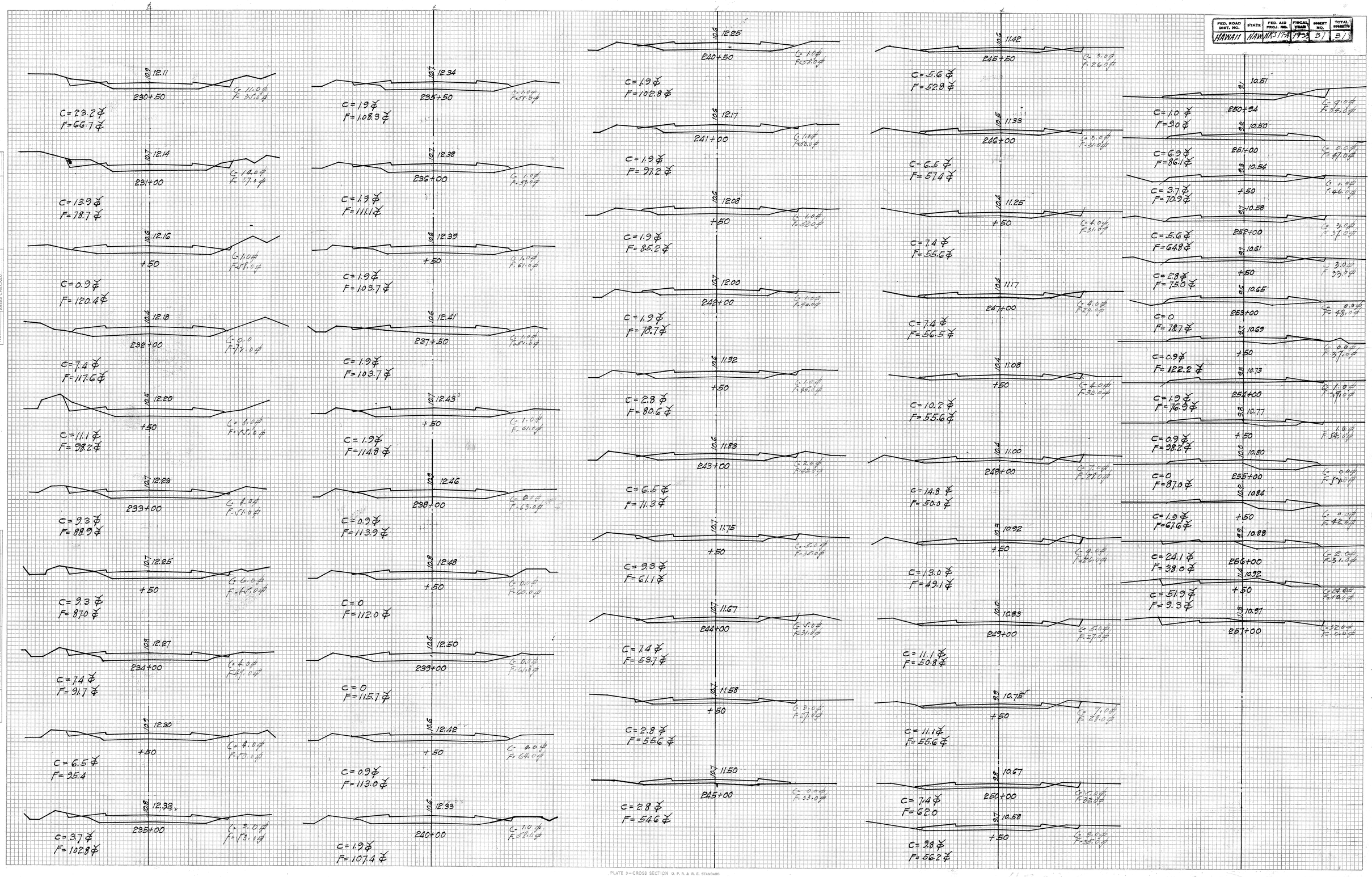


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4301

4301.31