FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHTS.
HAWAII	HAW.	10-C	1938	217	46

547.99

Exc = 436.1 460
Emb = 0 0
5762
568.13
11+00
C = 293
F = 0

Exc = 468.5 495
Emb = 0 0
5765
570.34
+50
C = 212
F = 10

Exc = 380.5 404
Emb = 0 0
5776
572.35
10+00
C = 194
F = 8

Exc = 335.2 356
Emb = 0 0
5783
574.18
+50
C = 190
F = 0

Exc = 269.7 286
Emb = 0 0
5777
575.81
9+00
C = 97
F = 0

Exc = 137.9 155
Emb = 0 0
5792
577.27
+50
C = 64 70
F = 0 0

Exc = 81.5 87
Emb = 0 0
5810
577.91
8+25
C = 124
F = 0

Exc = 0 0
Emb = 888.9 973
5779
547.75
+50
C = 0
F = 128

Exc = 10.2 21
Emb = 112.0 138
5814
551.06
551.05
14+00
C = 23
F = 21

Exc = 10.2 21
Emb = 89.8 106
5818
554.25
+50
C = 0
F = 92

Exc = 22.2 23
Emb = 98.1 106
5828
557.40
13+00
C = 25
F = 22

Exc = 22.2 23
Emb = 114.1 137
5838
560.37
C = 0
F = 180

Exc = 0 0
Emb = 833 88
5849
560.94
+60
C = 0
F = 296

Exc = 14.1 16
Emb = 222.2 234
5862
563.18
12+00
C = 21
F = 22

Exc = 93.1 105
Emb = 6.8 10
5871
564.47
+75
C = 206
F = 0

Exc = 119.6 130
Emb = 0 0
5712
565.74
+50
C = 204
F = 0

Exc = 0 0
Emb = 572.2 728
5422
5411.25
5436
C = 0
F = 550
+50
Exc = 0 0
Emb = 218.7 321
5429
5423.11
5426.4
C = 0
F = 765
15
BT 18+36.38
Exc = 0 0
Emb = 877.3 757
5444
5433.53
5192
C = 0
F = 1110
+15
Exc = 0
Emb = 227.7 240
5448
5413.91
5192
C = 0
F = 1124
+09
Exc = 0
Emb = 315.3 341
5450.4
5442.50
5258
C = 0
F = 923
15+00

Exc = 0 0
Emb = 230.4 212
5664
522.3 66
528.45
C = 0
F = 261
+60
Exc = 0 0
Emb = 309.9 306
5734
526.10
525.25
C = 0
F = 69
19+00
Exc = 5.5 0
Emb = 609.95
5741
527.13
525.44
C = 0 C = 0
F = 54 F = 31
+50
Exc = 22.2 0
Emb = 28 6.5
5783
529.96
528.80
C = 0
F = 34
18+00
Exc = 83.3 2
Emb = 0 19
5817
532.09
529.94
C = 2
F = 18
+60
Exc = 112.3 2
Emb = 0 30
5835
534.44
532.25
C = 0
F = 28
17+00
Exc = 55.5 0
Emb = 0 74
5849
536.91
534.94
C = 0
F = 58
+50
Exc = 8.2 0
Emb = 1200 270
5856
538.80
C = 0
F = 236
16+00

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U. S. A. 77189-3

4481.27

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

ORIGINAL SURVEY
NOTE BOOK
NO. 1/2/3
SURVEYED
PLOTTED
TEMPLATE
LEVELS
AREAS CHECKED
BY
DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-C	1938	28	46

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

ORIGINAL SURVEY — NOTE BOOK 12-C — NO. 12-C — SURVEYED — PLOTTED T.K. Aona — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE 7/14/38

Exc. = ~~1550~~ 540
Emb. = ~~350~~ 0
514.91 ~~5154~~
C = 231
F = 0
22+00

Exc. = ~~2205~~ 503
Emb. = ~~18~~ 0
514.99 ~~5154~~
21+64.50
C = 237
F = 0

Exc. = ~~1355~~ 207
Emb. = ~~18~~ 0
515.49 ~~5155~~
21+30
C = 328
F = 0

Exc. = ~~2220~~ 510
Emb. = ~~2610~~ 0
517.91 ~~5178~~
21+00
C = 223
F = 0

Exc. = ~~2220~~ 295
Emb. = ~~2022~~ 99
519.30 ~~5192~~
20+50
C = 29
F = 107

Exc. = ~~1350~~ 378
Emb. = ~~3750~~ 2161
521.61 ~~5231~~
20+00
C = 11
F = 178

Exc. = ~~1355~~ 56
Emb. = ~~3220~~ 2256
542.88 ~~5428~~
19+69
C = 0
F = 321

Exc. = ~~1355~~ 731
Emb. = ~~18~~ 0
507.20 ~~5072~~
23+50
C = 369
F = 0

Exc. = ~~1355~~ 4465
Emb. = ~~1355~~ 0
508.90 ~~5084~~
23+10
C = 765
F = 0

Exc. = ~~1355~~ 1650
Emb. = ~~2220~~ 112
~~5065~~
~~5072~~
22+91
C = 82
F = 34
END OF BRIDGE STA. 22+91.32

Exc. = ~~1355~~
Emb. = ~~2220~~
~~5065~~
~~5071~~
22+64
C = 54
F = 29

Exc. = ~~1355~~ 56 BEG. OF BRIDGE STA. 22+67.58
Emb. = ~~1355~~ 6
~~5065~~
~~5071~~
22+56
C = 213
F = 0

Exc. = ~~1355~~ 52
Emb. = ~~1218~~ 0
511.11 ~~5114~~
22+50
C = 252
F = 0

Exc. = ~~1355~~ 98
Emb. = ~~3934~~ 455
454.97 ~~5049~~
26+50
C = 96
F = 9

Exc. = ~~1355~~ 1662
Emb. = ~~870~~ 0
496.00 ~~5022~~
26+25
C = 254
F = 0

Exc. = ~~1355~~ 2352
Emb. = ~~1012~~ 0
497.02 ~~5011~~
26+00
C = 218
F = 0

Exc. = ~~1355~~ 427
Emb. = ~~750~~ 0
499.06 ~~5000~~
25+30
C = 213
F = 0

Exc. = ~~1355~~ 528
Emb. = ~~5212~~ 0
501.11 ~~5068~~
25+00
C = 357
F = 0

Exc. = ~~1355~~ 772
Emb. = ~~18~~ 0
503.16 ~~5088~~
24+50
C = 277
F = 0

Exc. = ~~1355~~ 231
Emb. = ~~18~~ 0
505.21 ~~5063~~
24+00
C = 420
F = 0

Exc. = ~~1355~~ 715
Emb. = ~~2220~~ 0
487.24 ~~5026~~
28+50
C = 0
F = 360

Exc. = ~~1355~~ 704
Emb. = ~~1022~~ 0
488.16 ~~4950~~
28+00
C = 0
F = 409

Exc. = ~~1355~~ 0
Emb. = ~~1022~~ 834
470.87 ~~4888~~
27+50
C = 0
F = 510

Exc. = ~~1355~~ 0
Emb. = ~~1112.5~~ 1178
492.28 ~~4877~~
27+16
C = 0
F = 125

Exc. = ~~1355~~ 0
Emb. = ~~2220~~ 5185
492.82 ~~4888~~
27+00
C = 0
F = 530

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 07185-3

4481.28

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-C	1938	29	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 12-C — SURVEYED ____ BY F. K. Jones DATE 1/1/38 — PLOTTED ____ — TRACED ____ — PLANIMETER AREAS ____ — AREAS CHECKED ____

30+50 — C-16 F-22 — Exc. = 15 Emb. = 405

30+00 — C-0 F-415 — Exc. = 0 Emb. = 590

29+73 — C-0 F-765 — Exc. = 0 Emb. = 595

29+50 — C-0 F-691 — Exc. = 0 Emb. = 556 456

29+27 — C-0 F-459 — Exc. = 0 Emb. = 546 428

29+00 — C-0 F-417

39+50 — C-166 F-0 — 21 Exc. = 29 T Emb. = 64

39+25 — C-0 F-0 — 477 Exc. = 2550 O Emb. = 10

39+12 — C-56.7 F-0 — 224 Exc. = 3319 O Emb. = 0

39+00 — C-0 F-0 — 336 Exc. = 7332 O Emb. = 0

32+50 — C-157 F-0 — 160 Exc. = 4886 1.5 Emb. = 1019

32+00 — C-16 F-16 — 41 Exc. = 296 55 Emb. = 342

31+50 — C-26 F-22 — 30 Exc. = 434 198 Emb. = 1287

31+00 — C-4 F-139 — 19 Exc. = 18 148 Emb. = 4324

35+50 — C-107 F-0 — 211 Exc. = 3310 O Emb. = 0

35+00 — C-121 F-0 — 2711 Exc. = 3528 O Emb. = 0

34+50 — C-172 F-0 — 363 Exc. = 3687 O Emb. = 45

34+00 — C-250 F-0 — 118 Exc. = 1182 O Emb. = 0

33+85 — C-209 F-0 — 49 Exc. = 1213 80 Emb. = 1315

33+72 — C-0 F-83 — O Exc. = 0 42 Emb. = 413

33+56 — C-0 F-620

40+00 — C-0 F-23 — 16 Exc. = 157 110 Emb. = 1136

39+50 — C-11 F-41 — 16 Exc. = 157 144 Emb. = 1485

39+00 — C-0 F-112 — O Exc. = 0 134 Emb. = 1376

36+50 — C-0 F-98 — 0 Exc. = 0 152 Emb. = 1619

36+00 — C-141 F-0

35+00 — C-67 F-0 — 194 Exc. = 1935 O Emb. = 0

37+00 — C-153 F-0 — 292 Exc. = 2938 O Emb. = 0

36+50 — C-163 F-0 — 281 Exc. = 2833 O Emb. = 0

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

MADE IN U.S.A. 27185-3

4481.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	
HAWAII	HAW.	10-C	1938	30	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 1-10-C — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

4.7 Exc. = 11 Emb. = 0
Sta. 5+48.12 — 5+98.12
42+50 C=8.3 F=0

18 Exc. = 239 Emb. = 3000
Sta. 5+16.64 — 5+66.64
45+00 C=0 F=229

16 Exc. = 1 Emb. = 185
Sta. 5+29.12 — 5+82.12
47+17 C=9.1 F=17

63 Exc. = 0 Emb. = 122
Sta. 5+37.60 — 5+87.60
48+33 C=1.80 F=0

78 Exc. = 59 Emb. = 223
Sta. 5+07.99 — 5+57.99
42+00 C=1 F=64

0 Exc. = 472 Emb. = 5665
Sta. 5+14.29 — 5+64.29
44+50 C=8 F=283

17 Exc. = 22 Emb. = 625
Sta. 5+28.11 — 5+78.11
47+00 C=4.4 F=64

101 Exc. = 0 Emb. = 2242
Sta. 5+35.44 — 5+85.44
48+08 C=1.33 F=0

5 Exc. = 41 Emb. = 1667
Sta. 5+07.30
41+80 C=2.0 F=476

0 Exc. = 428 Emb. = 4867
Sta. 5+12.18 — 5+62.18
44+00 C=9 F=1179

2 Exc. = 43 Emb. = 1000
Sta. 5+27.65 — 5+77.65
46+63 C=4.3 F=30

48 Exc. = 0 Emb. = 224
Sta. 5+39.92 — 5+89.92
48+00 C=1.96 F=0

31 Exc. = 17 Emb. = 1770
Sta. 5+07.20
41+63 C=1.9 F=9

20 Exc. = 265 Emb. = 3165
Sta. 5+10.41 — 5+60.41
43+30 C=9 F=1107

46 Exc. = 55 Emb. = 1350
Sta. 5+26.40 — 5+76.40
46+50 C=7.1 F=0

76 Exc. = 0 Emb. = 0
Sta. 5+54.13 — 5+84.13
47+67 C=1.50 F=0

4 Exc. = 0 Emb. = 15
Sta. 5+07.12
41+50 C=0.0 F=1

80 Exc. = 3 Emb. = 56
Sta. 5+09.14 — 5+58.27
43+00 C=5.0 F=12

85 Exc. = 0 Emb. = 102
Sta. 5+15.43 — 5+53.76
46+10 C=13.7 F=0

245 Exc. = 0 Emb. = 0
Sta. 5+31.43 — 5+80.63
47+50 C=2.56 F=0

5 Exc. = 41 Emb. = 1615
Sta. 5+06.91
41+15 C=3.9 F=0

6 Exc. = 15 Emb. = 12
Sta. 5+09.01 — 5+58.74
42+95 C=3.1 F=1

114 Exc. = 2 Emb. = 0
Sta. 5+22.47 — 5+72.20
46+00 C=8.2 F=1

6 Exc. = 2 Emb. = 0
Sta. 5+31.35 — 5+80.73
47+42 C=1.77 F=0

10 Exc. = 0 Emb. = 0
Sta. 5+06.82
41+00 C=6 F=11

8 Exc. = 0 Emb. = 0
Sta. 5+08.68 — 5+58.78
42+80 C=2 F=13

34 Exc. = 3 Emb. = 0
Sta. 5+19.45 — 5+69.73
45+50 C=1.7 F=31

99 Exc. = 0 Emb. = 147
Sta. 5+32.34 — 5+82.34
47+27 C=2.2 F=0

10 Exc. = 0 Emb. = 0
Sta. 5+06.62
40+50 C=5 F=0

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

MADE IN U.S.A. 27198-S

4481.30

30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10C	1938	31	46

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED	T.K. Lum	6/27/38
TEMPLATE		
AREAS		
NOTE BOOK		
NO. 1-10C-1	AREAS CHECKED	

Exc = 32 Emb = 0 — 55059 / 55585 — 50+30 — C=62 F=0

Exc = 164 Emb = 0 — 54747 / 55287 — 50+00 — C=135 F=0

Exc = 49 Emb = 0 — 54612 / 55060 — 49+80 — C=131 F=0

Exc = 64 Emb = 0 — 54515 / 54978 — 49+60 — C=34 F=0

Exc = 25 Emb = 0 — 54428 / 54870 — 49+50 — C=35 F=0

Exc = 30 Emb = 0 — 54317 / 54767 — 49+00 — C=51 F=0

Exc = 158 Emb = 0 — 53820 / 54285 — 48+50 — C=120 F=0

Exc = 418 Emb = 0 — 55264 / 55818 — 53+30 — C=271 F=0

Exc = 570 Emb = 0 — 55068 / 55509 — 53+00 — C=345 F=0

Exc = 618 Emb = 0 — 54819 / 55330 — 52+30 — C=322 F=0

Exc = 303 Emb = 0 — 54567 / 55073 — 52+00 — C=73 F=0

Exc = 62 Emb = 0 — 54501 / 55025 — 51+80 — C=93 F=0

Exc = 197 Emb = 0 — 55051 / 55535 — 51+50 — C=228 F=0

Exc = 406 Emb = 0 — 54821 / 55286 — 51+00 — C=200 F=0

Exc = 150 Emb = 0 — 54615 / 55067 — 50+68 — C=54 F=0

Exc = 181 Emb = 0 — 56+00 — C=120 F=0

Exc = 350 Emb = 0 — 55+80 — C=158 F=0

Exc = 160 Emb = 0 — 55+30 — C=206 F=0

Exc = 107 Emb = 0 — 55+05 — C=228 F=0

Exc = 16 Emb = 0 — 54+92 — C=33 F=0

Exc = 84 Emb = 0 — 54+72 — C=137 F=0

Exc = 169 Emb = 0 — 54+50 — C=227 F=0

Exc = 377 Emb = 0 — 54+00 — C=180 F=0

Exc = 223 Emb = 0 — 57+00 — C=0 F=1101

Exc = 207 Emb = 0 — 56+30 — C=0 F=1123

Exc = 93 Emb = 0 — 56+00 — C=0 F=1145

Exc = 155 Emb = 0 — 55+80 — C=0 F=1185

Exc = 132 Emb = 0 — 57+30 — C=0 F=1142

Exc = 37 Emb = 21 — 57+00 — C=43 F=0

Exc = 86 Emb = 0 — 56+50 — C=70 F=0

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

KEUFFEL & ESSER CO., NEW YORK.

MADE IN U.S.A. 27183-3

4481.31

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	H.A.W.	10C	1938	38	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 1-10-2
SURVEYED J.C.C.
PLOTTED T.K. Aoki
TEMPLATE
AREAS
AREAS CHECKED
DATE 4/11/38

Exc = 0 0
Emb = 9546 350
Sta 0 — 580+15 — 580+29
62 x 50 — C = 0, F = 315

Exc = 0 0
Emb = 2232 265
Sta 1 — 580+85 — 580+59
62 x 01 — C = 0, F = 216

Exc = 0 0
Emb = 1930 196
Sta 2 — 580+56 — 580+29
62 x 00 — C = 0, F = 180

Exc = 0 0
Emb = 2769 241
Sta 3 — 579+85 — 579+59
61 x 50 — C = 0, F = 80

Exc = 0 0
Emb = 1418 120
Sta 4 — 579+20 — 578+92
61 x 00 — C = 0, F = 150

Exc = 0 0
Emb = 620 61
Sta 5 — 578+56 — 578+29
60 x 50 — C = 0, F = 116

Exc = 0 0
Emb = 287 21
Sta 6 — 577+91 — 577+62
60 x 00 — C = 1, F = 7

Exc = 0 0
Emb = 882 79
Sta 7 — 577+45 — 577+18
59 x 63 — C = 0, F = 113

Exc = 0 0
Emb = 756 71
Sta 8 — 577+20 — 576+92
59 x 50 — C = 0, F = 140

Exc = 2985 311
Emb = 0 0
Sta 0 — 582+60 — 582+25
65 x 00 — C = 140, F = 0

Exc = 827 85
Emb = 62 4
Sta 1 — 582+60 — 582+32
64 x 69 — C = 8, F = 6

Exc = 211 23
Emb = 46 3
Sta 2 — 582+59 — 582+28
64 x 50 — C = 51, F = 1

Exc = 456 49
Emb = 17 2
Sta 3 — 582+52 — 582+23
64 x 20 — C = 30, F = 2

Exc = 709 100
Emb = 513 52
Sta 4 — 582+44 — 582+16
64 x 00 — C = 7, F = 134

Exc = 0 0
Emb = 6444 643
Sta 5 — 582+15 — 581+89
63 x 50 — C = 0, F = 551

Exc = 0 0
Emb = 11722 1180
Sta 6 — 581+58 — 581+26
63 x 00 — C = 0, F = 717

Exc = 4916 534
Emb = 0 0
Sta 0 — 580+45 — 579+94
67 x 50 — C = 240, F = 0

Exc = 4759 534
Emb = 0 0
Sta 1 — 581+16 — 580+82
67 x 00 — C = 337, F = 0

Exc = 5417 593
Emb = 0 0
Sta 2 — 581+74 — 581+22
66 x 50 — C = 320, F = 0

Exc = 4867 520
Emb = 0 0
Sta 3 — 582+16 — 581+68
66 x 00 — C = 259, F = 0

Exc = 4864 522
Emb = 0 0
Sta 4 — 582+44 — 582+16
66 x 00 — C = 259, F = 0

Exc = 4867 522
Emb = 0 0
Sta 5 — 582+45 — 582+17
65 x 50 — C = 305, F = 0

Exc = 1447 153
Emb = 0 0
Sta 6 — 582+50 — 582+22
65 x 36 — C = 318, F = 0

Exc = 0 0
Emb = 1880 175
Sta 0 — 575+82 — 575+61
69 x 96 — C = 0, F = 570

Exc = 0 0
Emb = 3586 392
Sta 1 — 575+44 — 575+21
69 x 75 — C = 0, F = 450

Exc = 2275 231
Emb = 405 42
Sta 2 — 576+86 — 576+61
69 x 23 — C = 240, F = 0

Exc = 2138 232
Emb = 0 0
Sta 3 — 577+44 — 577+20
69 x 00 — C = 305, F = 0

Exc = 5287 533
Emb = 0 0
Sta 4 — 578+59 — 578+32
68 x 50 — C = 350, F = 0

Exc = 2538 265
Emb = 0 0
Sta 5 — 579+13 — 578+87
68 x 24 — C = 262, F = 0

Exc = 2366 246
Emb = 0 0
Sta 6 — 579+59 — 579+33
68 x 00 — C = 337, F = 0

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 37188-3

4481.32

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10C	1938	33	66

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

ORIGINAL SURVEY
SURVEYED 12-6
PLOTTED
TEMPLATE T.K. Ayers
NOTE BOOK
NO. 1-20-7
AREAS
AREAS CHECKED
DATE 12-6

Exc = —0— 0
Emb = 723 = 967
STA 6+75 = 571.21
5708.1
71 x 20 = 95
C = 0
F = 813

Exc = —0— 0
Emb = 442 = 586
STA 6+75 = 571.80
5711.0
C = 0
F = 739

Exc = —0— 0 71 x 00
Emb = 434 = 550
STA 6+75 = 572.10
5712.2
C = 0
F = 741

Exc = —0— 0 70 x 60
Emb = 8945 655
STA 6+75 = 572.68
5713.3
70 x 50
C = 0
F = 732

Exc = —0— 0
Emb = 8213 636
STA 6+75 = 572.11
5713.2
70 x 25
C = 0
F = 582

Exc = —0— 0
Emb = 3223 394
STA 6+75 = 572.43
5714.2
70 x 05
C = 0
F = 452

Exc = —0— 0
Emb = 1812 = 2149
STA 11+25 = 571.24
5686.72
72 x 50
C = 0
F = 11152

Exc = —0— 0
Emb = 1866 = 2218
STA 11+25 = 571.35
5686.86
72 x 45
C = 0
F = 11266

Exc = —0— 0
Emb = 3750 = 537
STA 11+25 = 571.25
5691.20
72 x 32
C = 0
F = 10665

Exc = —0— 0
Emb = 9735 = 1353
STA 11+25 = 572.16
5688.18
72 x 00
C = 0
F = 12118

Exc = —0— 0
Emb = 15046 2010
STA 11+25 = 572.36
5688.3
71 x 50
C = 0
F = 9253

Exc = 932 = 19
Emb = 469 = 101
STA 6+75 = 567.42
5684.56
74 x 61
C = 26
F = 6

Exc = 1050 = 22
Emb = 2587 = 422
STA 6+75 = 568.40
5684.85
74 x 15
C = 0
F = 2295

Exc = —0— 0
Emb = 1825 = 294
STA 6+75 = 569.68
5684.88
74 x 00
C = 0
F = 563

Exc = —0— 0
Emb = 8111 = 1490
STA 11+25 = 569.32
5684.87
73 x 50
C = 0
F = 549

Exc = —0— 0
Emb = 13937 = 1924
STA 11+25 = 570.38
5684.66
73 x 00
C = 0
F = 1129

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27180-3

4481.33

33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10C	1938	34	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 7-120-7 — SURVEYED BY T.K. Lum — PLOTTED BY — TEMPLATE BY — AREAS BY — AREAS CHECKED BY — DATE 11/1/38

1420 Exc = 1378.7 / 0 Emb = 0 — 16+20 — 564.4 20 / 564.76 — C = 693.705 F = 0

800 Exc = 795.0 / 0 Emb = 0 — 16+20 — 564.1 01 / 564.24 — C = 120 F = 0

521 Exc = 536.3 / 0 Emb = 0 — 16+20 — 565.5 22 / 565.28 — C = 1.20 F = 0

465 Exc = 500.4 / 0 Emb = 0 — 16+00 — 565.4 43 / 564.23 — C = 627.6 F = 10

229 Exc = 281.2 / 1 Emb = 0 — 15+50 — 566.1 08 / 564.38 — C = 185 F = 2

11 Exc = 22.0 / 14 Emb = 4.2 — 15+41 — 566.1 29 / 564.10 — C = 11 F = 185

1 Exc = 8.4 / 169 Emb = 68.3 — 15+00 — 566.1 32 / 564.22 — C = 0 F = 1.30

569 Exc = 530.5 / 0 Emb = 0 — 18+79 — 560.4 12 / 561.35 — C = 740 F = 0

560 Exc = 516.8 / 0 Emb = 0 — 18+50 — 560.4 22 / 561.32 — C = 303 F = 10

261 Exc = 230.9 / 0 Emb = 0 — 18+27 — 561.4 32 / 562.53 — C = 310 F = 0

507 Exc = 457.0 / 0 Emb = 0 — 18+00 — 561.4 10 / 562.76 — C = 105 F = 0

487 Exc = 453.3 / 0 Emb = 0 — 17+60 — 562.4 12 / 563.01 — C = 610 F = 0

730 Exc = 691.1 / 0 Emb = 0 — 17+50 — 562.4 24 / 563.41 — C = 703 F = 0

1426 Exc = 1368.5 / 0 Emb = 0 — 17+00 — 563.4 20 / 563.87 — C = 837 F = 10

0 Exc = 0 / 685 Emb = 386.9 — 61+00 — 556.2 02 / 554.85 — C = 0 F = 325

0 Exc = 0 / 668 Emb = 584.2 — 60+50 — 557.4 49 / 556.76 — C = 0 F = 556

0 Exc = 0 / 321 Emb = 293.4 — 60+25 — 557.4 21 / 557.55 — C = 0 F = 291

5 Exc = 4.8 / 153 Emb = 137.0 — 60+00 — 558.3 34 / 558.37 — C = 10 F = 32

15 Exc = 13.1 / 7 Emb = 6.0 — 59+80 — 559.2 55 / 558.67 — C = 556 F = 0

200 Exc = 195.6 / 0 Emb = 0 — 59+50 — 559.2 20 / 559.71 — C = 208 F = 0

681 Exc = 650.8 / 0 Emb = 0 — 59+00 — 560.2 06 / 559.51 — C = 703 F = 0

0 Exc = 0 / 329 Emb = 28 — 83+00 — 553.2 20 / 556.35 — C = 0 F = 105

0 Exc = 39.6 / 387 Emb = 50.8 — 82+50 — 554.2 01 / 556.86 — C = 0 F = 230

0 Exc = 11.1 / 483 Emb = 11.2 — 82+00 — 554.2 30 / 556.38 — C = 0 F = 292

0 Exc = 0 / 223 Emb = 129.2 — 81+85 — 555.1 16 / 554.62 — C = 0 F = 509

0 Exc = 0 / 341 Emb = 228.0 — 81+66 — 555.1 43 / 552.47 — C = 0 F = 260

0 Exc = 0 / 246 Emb = 171.6 — 81+50 — 555.1 26 / 553.27 — C = 0 F = 371

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

MADE IN U.S.A. 27188-3

4481.34

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	10C	1938	35	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 1-156
SURVEYED — BY T. K. Evans — DATE 9/1/37
PLOTTED — BY —
TRACED — BY —
AREAS — AREAS CHECKED —

0 Exc: ~~1150~~
92 Emb: ~~0~~
Sta 92+ 548.01
~~542.51~~
85×20 85 C=0 F=146

0 Exc: ~~0~~
Emb: ~~1830~~ 198
Sta 91+ 543.48
~~542.49~~
81×00 C=0 F=142

Exc: ~~2734~~ 400
Emb: ~~0~~ 0
Sta 90+ 535.80
539.01
90×00 C=540 F=0

Exc: ~~0~~
Emb: ~~2330~~
Sta 92+ 527.95
~~530.33~~
92×84 C=0 F=271

BEG. OF BRIDGE STA. 92+85.08

0 Exc: ~~647~~
95 Emb: ~~0~~
Sta 95+ 540.69
~~541.60~~
85×00 C=0 F=100

Exc: ~~0~~ 0
Emb: ~~310~~ 47
Sta 92+ 543.72
~~543.50~~
86×71 C=0 F=137

Exc: ~~7667~~ 1056
Emb: ~~0~~ 0
Sta 92+ 536.83
~~540.22~~
91×50 C=600 F=0

Exc: ~~0~~ 0
Emb: ~~3946~~ 290
~~1445~~
Sta 92+ 525.85
~~531.33~~
92×50 C=0 F=150

0 Exc: ~~1871~~
86 Emb: ~~0~~
Sta 84+ 542.62
~~542.97~~
82×69 C=1 F=50

Exc: ~~377~~ 6
Emb: ~~682~~ 347
Sta 89+ 544.81
~~542.51~~
86×50 C=0 F=143

Exc: ~~2135~~ 281
Emb: ~~0~~ 0
Sta 91+ 537.18
~~538.23~~
91×37 C=600 F=0

Exc: ~~88~~ 53
Emb: ~~2881~~ 127
Sta 92+ 530.18
~~533.38~~
92×00 C=56 F=7

0 Exc: ~~933~~
70 Emb: ~~0~~
Sta 84+ 540.81
~~542.31~~
84×50 C=0 F=150

Exc: ~~2265~~
Emb: ~~60~~ 50
Sta 86+ 545.32
~~542.51~~
86×31 C=0 F=100

Exc: ~~3926~~ 546
Emb: ~~0~~ 0
Sta 89+ 532.16
~~540.83~~
C=230 F=0

Exc: ~~66~~ 149
Emb: ~~824~~ 17
Sta 91+ 531.81
~~532.67~~
91×50 C=125 F=0

0 Exc: ~~870~~
347 Emb: ~~28~~
Sta 82+ 550.33
~~542.70~~
82×00 C=0 F=225

Exc: ~~2776~~ 0
Emb: ~~75~~ 109
Sta 86+ 540.12
~~542.51~~
86×00 C=0 F=90

Exc: ~~6775~~ 315
Emb: ~~468~~ 0
Sta 89+ 539.69
~~541.40~~
88×60 C=412 F=0

Exc: ~~2167~~ 475
Emb: ~~0~~ 0
Sta 92+ 532.84
~~536.61~~
91×00 C=200 F=0

0 Exc: ~~8-3~~
112 Emb: ~~46~~
Sta 83+ 556.19
~~544.50~~
83×86 C=0 F=230

Exc: ~~875~~ 4
Emb: ~~0~~ 99
Sta 86+ 526.80
~~542.51~~
85×15 C=4 F=17

Exc: ~~3130~~ 429
Emb: ~~0~~ 0
Sta 89+ 540.82
~~541.99~~
88×00 C=412 F=0

Exc: ~~215~~ 475
Emb: ~~0~~ 0
Sta 92+ 534.17
~~537.85~~
90×30 C=203 F=0

0 Exc: ~~587~~
265 Emb: ~~20~~
Sta 81+ 552.06
~~545.34~~
83×50 C=0 F=167

Exc: ~~1375~~ 2
Emb: ~~0~~ 20
Sta 86+ 547.44
~~542.51~~
85×50 C=2 F=25

Exc: ~~45~~ 41
Emb: ~~313~~ 67
Sta 89+ 542.45
~~542.32~~
87×50 C=0 F=72

Exc: ~~3850~~ 463
Emb: ~~0~~ 0
Sta 92+ 534.27
~~534.56~~
90×20 C=540 F=0

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27188-2

4481.35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10 C	1938	36	46

108+50 C=48 F=0

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

ORIGINAL SURVEY	BY	DATE
SURVEYED	18-J	
PLOTTED		
TEMPLATE	T.K. Ayres	
AREAS		8/1938
AREAS CHECKED		
NOTE BOOK		
NO.		

398 Exc = ~~433.5~~
0 Emb = ~~0~~
STA 96+00 215.54' ~~510.60~~ C=782 F=0

0 Exc = ~~0~~
139 Emb = ~~58.3~~
STA 99+00 215.(a)' ~~513.03~~ C=0 F=31

114 Exc = ~~51.8~~
0 Emb = ~~7.4~~

0 Exc = ~~0~~
210 Emb = ~~36.5~~
STA 98+50 215.71' ~~513.88~~ C=0 F=1.50

STA 102+00 215.33' ~~520.24~~ C=78 F=0

33 Exc = ~~0.2~~
7 Emb = ~~28.7~~

0 Exc = ~~0~~
244 Emb = ~~92.4~~
STA 98+00 216.02' ~~513.70~~ C=0 F=120

STA 101+50 218.21' ~~519.15~~ C=138 F=8

0 Exc = ~~0.2~~
186 Emb = ~~53.7~~
STA 97+50 216.50' ~~514.30~~ C=0 F=78

13 Exc = ~~2.7~~
19 Emb = ~~46.3~~
STA 101+00 217.49' ~~518.06~~ C=6 F=12

41 Exc = ~~32.4~~
78 Emb = ~~86.1~~
STA 94+50 215.58' ~~524.27~~ C=0 F=84

58 Exc = ~~126.0~~
68 Emb = ~~111.1~~
STA 97+50 217.33' ~~515.40~~ C=62 F=0

9 Exc = ~~2.8~~
31 Emb = ~~54.8~~
STA 100+50 217.68' ~~516.97~~ C=23 F=61

0 Exc = ~~0~~
213 Emb = ~~258.3~~
STA 94+00 215.24' ~~525.10~~ C=0 F=126

297 Exc = ~~40.8~~
0 Emb = ~~0~~
STA 96+50 217.32' ~~515.90~~ C=258 F=0

6 Exc = ~~4.6~~
41 Emb = ~~29.8~~
STA 100+00 217.10' ~~515.88~~ C=3 F=23

0 Exc = ~~0~~
90 Emb = ~~130.4~~ ~~106.6~~
STA 93+26 Exc = ~~0~~ Emb = ~~225.7~~
STA 92+85 215.16' ~~525.68~~ C=0 F=221
STA 92+41 215.79' ~~525.45~~ C=44 F=0
STA 93+84 END OF BRIDGE STA 93+86.9
Exc = ~~0~~ Emb = ~~153.9~~

121 Exc = ~~139.3~~
0 Emb = ~~0~~
STA 96+50 215.60' ~~514.12~~ C=265 F=0

3 Exc = ~~1.6~~
74 Emb = ~~39.9~~
STA 99+50 215.12' ~~514.38~~ C=0 F=37

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27185-3

4481.36

36 10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
HAWAII	HAW	10C	1938	37	46

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO. 7-11-2	PLOTTED		
	TEMPLATE	T.K. Jones	1-14-38
	AREAS		
	AREAS CHECKED		

525.34 / 524.38
105+26.85 C=0 F=351
0 Exc: -0-
157 Emb: -289.0-

524.25 / 525.70
105+00 C=0 F=44
37 Exc: -37.9-
41 Emb: -102.8-

523.23 / 525.70
104+50 C=105 F=0
215 Exc: -97.2-
0 Emb: -0-

523.01 / 524.67
104+00 C=127 F=0
222 Exc: -113.9-
0 Emb: -0-

522.09 / 523.32
103+50 C=113 F=0
221 Exc: -118.5-
0 Emb: -0-

521.17 / 522.42
103+00 C=126 F=0
205 Exc: -108.9-
0 Emb: -0-

520.25 / 521.33
102+50 C=95 F=0

529.15 / 531.56
107+50 C=82 F=0
137 Exc: 9.2
0 Emb: 17.6

528.23 / 530.85
107+00 C=43 F=0
116 Exc: 9.2
0 Emb: 41.7

527.31 / 529.36
106+50 C=134 F=0
164 Exc: -46.7-
0 Emb: -33.3-

526.39 / 528.74
106+89.44 C=105 F=0
47 Exc: -75.1-
0 Emb: -0-

525.27 / 527.88
105+50 C=0 F=180
77 Exc: -77.5-
59 Emb: -108.1-

524.15 / 527.00
105+00 C=0 F=217
0 Exc: -0-
92 Emb: -107.4-

523.03 / 525.80
104+50 C=0 F=207
0 Exc: -0-
105 Emb: -136.7-

533.39 / 532.59
111+00 C=113 F=0
159 Exc: -192.6-
0 Emb: -0-

533.43 / 532.74
110+50 C=54 F=0
83 Exc: -92.6-
0 Emb: -0-

532.94 / 532.84
110+00 C=8 F=0
65 Exc: -45.4-
0 Emb: -4.8-

532.91 / 532.88
109+50 C=28 F=0
40 Exc: -17.6-
4 Emb: -14.9-

532.87 / 532.78
109+00 C=24 F=0
54 Exc: -83-
4 Emb: -28.7-

532.82 / 532.53
108+50 C=34 F=0
93 Exc: -37-
0 Emb: -25.0-

532.78 / 532.72
108+00 C=66 F=0

531.21 / 531.74
111+50 C=0 F=92
0 Exc: -0-
188 Emb: -232.4-

531.69 / 531.84
111+00 C=0 F=82
0 Exc: -0-
122 Emb: -127.8-

531.65 / 531.93
113+50 C=0 F=50
6 Exc: -7.4-
69 Emb: -51.8-

531.62 / 532.00
113+00 C=0 F=25
10 Exc: -33.0-
23 Emb: -4.8-

533.02 / 532.22
112+50 C=70 F=0
188 Exc: -241.5-
0 Emb: -0-

533.29 / 532.38
112+00 C=153 F=0
257 Exc: -318.7-
0 Emb: -0-

533.41 / 532.47
111+50 C=146 F=0
244 Exc: -293.5-
0 Emb: -0-

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
#23004

4481.37

37/2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	10 C	1938	38	86

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

ORIGINAL SURVEY	BY	DATE
SURVEYED	[illegible]	
PLOTTED	T.K. Sears	
TRACED		1/19/38
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO. 2		

Exc: ~~0~~ 0
Emb: ~~188.8~~ 110
524.9 ~~527.17~~ 527.17
c = 0
f = 153
116+66

Exc: ~~0~~ 0
Emb: ~~137.5~~ 86
523.33 ~~527.22~~
c = 0
f = 129
116+50

Exc: ~~0~~ 0
Emb: ~~197.8~~ 106
525.61 ~~527.25~~
c = 0
f = 62
116+20

Exc: ~~0~~ 0
Emb: ~~37.8~~ 44
525.80 ~~527.24~~
c = 0
f = 58
116+00

Exc: ~~0~~ 0
Emb: ~~242.6~~ 144
530.27 ~~531.47~~
c = 0
f = 96
115+50

Exc: ~~0~~ 0
Emb: ~~199.0~~ 148
530.59 ~~531.56~~
c = 0
f = 140
115+16

Exc: ~~0~~ 0
Emb: ~~87.9~~ 76
530.12 ~~531.59~~
c = 0
f = 111
115+00

Exc: ~~89~~ 207
Emb: ~~529~~ 0
526.51 ~~530.47~~
c = 36
f = 0
119+50

Exc: ~~185~~ 230
Emb: ~~335~~ 0
526.35 ~~530.55~~
c = 150
f = 0
119+00

Exc: ~~481~~ 284
Emb: ~~0~~ 0
527.45 ~~530.12~~
c = 157
f = 0
118+50

Exc: ~~58.2~~ 282
Emb: ~~0~~ 0
527.92 ~~530.84~~
c = 148
f = 0
118+00

Exc: ~~41.7~~ 241
Emb: ~~3~~ 0
528.39 ~~530.37~~
c = 112
f = 0
117+50

Exc: ~~4.3~~ 413
Emb: ~~0~~ 0
528.49 ~~530.39~~
c = 100
f = 0
117+39

Exc: ~~5.1~~ 73
Emb: ~~42.8~~ 18
528.16 ~~531.03~~
c = 125
f = 0
117+00

Exc: ~~1682~~ 505
Emb: 10 0
525.69 ~~528.56~~
c = 261
f = 0
122+50

Exc: ~~52.8~~ 248
Emb: ~~0~~ 0
524.6 625.34 ~~528.33~~
c = 220
f = 0
122+23

Exc: ~~358~~ 205
Emb: ~~0~~ 0
524.16 ~~528.20~~
c = 253
f = 0
122+00

Exc: ~~888~~ 472
Emb: ~~0~~ 0
524.03 ~~528.88~~
c = 257
f = 0
121+50

Exc: ~~646~~ 431
Emb: ~~0~~ 0
525.10 ~~530.03~~
c = 208
f = 0
121+00

Exc: ~~92~~ 336
Emb: ~~116~~ 0
525.97 ~~530.22~~
c = 161
f = 0
120+50

Exc: ~~1.8~~ 261
Emb: ~~43.5~~ 0
526.04 ~~530.34~~
c = 125
f = 0
120+00

Exc: ~~24.6~~ 65
Emb: ~~35.5~~ 45
520.81 ~~527.74~~
c = 70
f = 0
125+50

Exc: ~~137.0~~ 255
Emb: ~~0~~ 0
521.34 ~~523.25~~
c = 205
f = 0
125+00

Exc: ~~283.3~~ 430
Emb: ~~0~~ 0
521.81 ~~522.59~~
c = 313
f = 0
124+50

Exc: ~~400.3~~ 650
Emb: ~~0~~ 0
522.27 ~~525.78~~
c = 436
f = 0
124+01

Exc: ~~442.3~~ 277
Emb: ~~0~~ 0
522.15 ~~526.87~~
c = 398
f = 0
123+50

Exc: ~~284.8~~ 629
Emb: ~~0~~ 0
522.22 ~~527.19~~
c = 278
f = 0
123+00

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
28994

4481.38

38

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10C	1938	39	46

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

ORIGINAL SURVEY		BY	DATE
	SURVEYED	10-C	
	PLOTTED	T. K. Davis	10/24/40
NOTE BOOK	TRIANGULATION		
NO. 25-26	AREAS		
	AREAS CHECKED		

Exc = 0 0
Emb = ~~228.2~~ 129.4 12.81

~~544.16~~ 544.16
~~5220.04~~ 5220.04 ℄

125+50 C = 0 F = 9.16

Exc = 0 0
Emb = 142.2 28.9

~~544.15~~ 544.15
~~5220.52~~ 5220.52 ℄

126+21 C = 0 F = 1.89

Exc = 0 0
Emb = ~~432.6~~ 432.6 10.89

~~544.92~~ 544.92
~~5220.19~~ 5220.19 ℄

125+00 C = 0 F = 6.06

Exc = 0 0
Emb = ~~426.9~~ 426.9 9.72

~~545.58~~ 545.58
~~5219.83~~ 5219.83 ℄

127+50 C = 0 F = 4.44

Exc = 0 0
Emb = ~~378.6~~ 378.6 6.91

~~546.88~~ 546.88
~~5219.88~~ 5219.88 ℄

127+00 C = 0 F = 3.07

Exc = 0 0
Emb = 259.3 4.58

~~548.31~~ 548.31
~~5220.03~~ 5220.03 ℄

126+50 C = 0 F = 1.63

Exc = 0 0
Emb = 181.5 2.64

~~550.19~~ 550.19
~~5220.20~~ 5220.20 ℄

126+00 C = 0 F = .49

Exc = 142.6 0
Emb = 8.3 2.40

~~548.38~~ 548.38
~~5224.62~~ 5224.62 ℄

130+50 C = 0 F = 2.32

Exc = 10.2 0
Emb = 264.8 3.46

~~547.26~~ 547.26
~~5225.37~~ 5225.37 ℄

130+00 END OF BRIDGE STA. 129+79.68

Exc = 0 0
Emb = ~~1325.5~~ 1325.5 25.40
~~208.4~~ 208.4

C = 0 F = 6.82

Exc = 0 0
Emb = ~~1325.5~~ 1325.5 25.40
~~208.4~~ 208.4

C = 0 F = 6.82

129+64

Exc = 0 0
Emb = 377.6 6.91

~~546.88~~ 546.88
~~5219.88~~ 5219.88 ℄

127+46

Exc = 0 0
Emb = 378.6 6.91

~~546.88~~ 546.88
~~5219.88~~ 5219.88 ℄

127+30

Exc = 0 0
Emb = 378.6 6.91

~~546.88~~ 546.88
~~5219.88~~ 5219.88 ℄

127+00

Exc = 0 0
Emb = 259.3 4.58

~~548.31~~ 548.31
~~5220.03~~ 5220.03 ℄

126+50

Exc = 0 0
Emb = 181.5 2.64

~~550.19~~ 550.19
~~5220.20~~ 5220.20 ℄

126+00

C = 0 F = 1.56

128+81

BEG. OF BRIDGE STA. 128+20.38

Exc = 86.1 1.82
Emb = 0 0

~~546.85~~ 546.85
~~5220.80~~ 5220.80 ℄

135+00 C = 20 F = 0

Exc = 63.1 1.40
Emb = 0 0

~~538.56~~ 538.56
~~5221.39~~ 5221.39 ℄

132+50 C = 61 F = 0

Exc = 50.6 1.07
Emb = 0 0

~~545.87~~ 545.87
~~5222.98~~ 5222.98 ℄

134+00 C = 55 F = 0

Exc = 34.3 .69
Emb = 0 0

~~546.29~~ 546.29
~~5224.34~~ 5224.34 ℄

133+50 C = 19 F = 0

Exc = 31.5 .50
Emb = 0 0

~~532.15~~ 532.15
~~5224.65~~ 5224.65 ℄

133+00 C = 13 F = 0

Exc = 83.3 2.0
Emb = 0 0

~~529.63~~ 529.63
~~5230.01~~ 5230.01 ℄

132+50 C = 8 F = 0

Exc = 163.5 2.6
Emb = 0 0

~~526.91~~ 526.91
~~5229.13~~ 5229.13 ℄

132+00 C = 16 F = 0

Exc = 244.4 2.8
Emb = 0 0

~~524.81~~ 524.81
~~5227.16~~ 5227.16 ℄

131+50 C = 16 F = 0

Exc = 272.2 1.4
Emb = 0 2.5

~~521.25~~ 521.25
~~5226.11~~ 5226.11 ℄

131+00 C = 0 F = 2.7

Exc = 565 0
Emb = 83 2.10

~~546.16~~ 546.16
~~5221.82~~ 5221.82 ℄

139+00 C = 0 F = .98

Exc = 193.8 4
Emb = 0 12.5

~~545.36~~ 545.36
~~5220.20~~ 5220.20 ℄

138+50 C = 4 F = 4.7

Exc = 107.6 1.11
Emb = 0 6.5

~~546.93~~ 546.93
~~5222.56~~ 5222.56 ℄

138+00 C = 5 F = 2.3

Exc = 83.3 2.7
Emb = 0 2.7

~~548.30~~ 548.30
~~5221.45~~ 5221.45 ℄

137+50 C = 21 F = 1.6

Exc = 103.7 2.5
Emb = 0 0

~~546.43~~ 546.43
~~5223.44~~ 5223.44 ℄

137+00 C = 32 F = 0

Exc = 17.3 .207
Emb = 0 0

~~544.10~~ 544.10
~~5223.93~~ 5223.93 ℄

136+50 C = 142 F = 0

Exc = 174.1 2.35
Emb = 0 0

~~545.30~~ 545.30
~~5222.28~~ 5222.28 ℄

136+00 C = 112 F = 0

Exc = 126.9 2.05
Emb = 0 0

~~544.32~~ 544.32
~~5220.91~~ 5220.91 ℄

135+50 C = 107 F = 0

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27189-3

4481.39

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10 C	1938	40	46

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

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED. NOTE BOOK NO. 2 — T.K. — 12-5-37

Exc.= ~~0~~ 0
Emb.= ~~429~~ 296
~~552.36~~ 552.36
552.36
C=0
F=3.58
141+00

Exc.= 0
Emb.= ~~559~~ 587
~~551.82~~ 551.82
551.82
140+11
C=0
F=13.32

Exc.= 0
Emb.= ~~273~~ 536
~~551.25~~ 551.20
551.20
140+65
C=0
F=10.80

Exc.= 0
Emb.= ~~249.2~~ 434
~~550.82~~ 550.72
550.72
140+50
C=0
F=6.95

Exc.= 0
Emb.= ~~351.6~~ 964
~~553.28~~ 553.01
553.01
140+00
C=0
F=11.43

Exc.= ~~141~~ 0
Emb.= ~~749~~ 497
~~553.55~~ 553.50
553.50
139+30
C=0
F=19.14

Exc.= ~~33.3~~ 0
Emb.= ~~18.2~~ 255
~~558.56~~ 558.36
558.36
142+50
C=0
F=1.87

Exc.= ~~2.8~~ 0
Emb.= ~~81.4~~ 475
~~556.23~~ 556.22
556.22
142+00
C=0
F=5.26

Exc.= ~~0~~ 0
Emb.= ~~422.3~~ 1063
~~554.16~~ 554.16
554.16
141+50
C=0
F=8.44

Exc.= ~~0~~ 0
Emb.= ~~333.2~~ 648
~~553.44~~ 553.25
553.25
141+31
C=0
F=5.98

Exc.= ~~0~~ 0
Emb.= ~~239.4~~ 577
~~552.38~~ 552.38
552.38
141+10
C=0
F=10.50

Exc.= ~~0~~ 0
Emb.= ~~226.7~~ 387
~~552.63~~ 552.59
552.59
141+08
C=0
F=10.10

Exc.= ~~522.6~~ 746
Emb.= ~~0~~ 0
~~574.50~~ 574.45
574.45
146+00
C=384
F=0

Exc.= ~~433.0~~ 609
Emb.= ~~0~~ 0
~~574.28~~ 574.25
574.25
145+50
C=1.04
F=0

Exc.= ~~268.9~~ 373
Emb.= ~~0~~ 0
~~572.05~~ 572.05
572.05
145+00
C=1.99
F=0

Exc.= ~~168.4~~ 206
Emb.= ~~0~~ 0
~~569.59~~ 569.59
569.59
144+50
C=83
F=0

Exc.= ~~1.8.0~~ 102
Emb.= ~~0~~ 0
~~566.92~~ 566.92
566.92
144+00
C=2.11
F=0

Exc.= ~~106.4~~ 76
Emb.= ~~0~~ 38
~~564.33~~ 564.33
564.33
143+50
C=1
F=38

Exc.= ~~7.8~~ 1
Emb.= ~~0~~ 117
~~561.16~~ 561.16
561.16
143+00
C=0
F=1.88

Exc.= ~~1180~~ 253
Emb.= ~~48.1~~ 5
~~583.88~~ 583.88
583.88
149+00
C=2.50
F=0

Exc.= ~~375.0~~ 597
Emb.= ~~0~~ 0
~~583.38~~ 583.38
583.38
148+50
C=3.99
F=0

Exc.= ~~95.5~~ 758
Emb.= ~~0~~ 0
~~582.77~~ 582.77
582.77
148+00
C=4.30
F=0

Exc.= ~~442.3~~ 726
Emb.= ~~0~~ 0
~~579.03~~ 579.03
579.03
147+50
C=4.30
F=0

Exc.= ~~56.4~~ 794
Emb.= ~~0~~ 0
~~577.67~~ 577.67
577.67
147+00
C=4.27
F=0

Exc.= ~~567.6~~ 777
Emb.= ~~0~~ 0
~~575.80~~ 575.80
575.80
146+50
C=4.12
F=0

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

MADE IN U. S. A. 27199-3

4481.40

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10 C	1938	4F	46

FINAL SURVEY — NOTE BOOK NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY — NOTE BOOK NO. 2

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE	TK	7/1938
AREAS		
AREAS CHECKED		

Exc= 66 45.
Emb= 378 3.
562.51 / 562.05
151+50
C=14 F=3

Exc= 767 20.
Emb= 313 27.
561.21 / 561.78
153+75
C=1. F=56.

Exc= 0.0 0
Emb= 3467 333.
573.29 / 573.78
157+00
C=0 F=235

Exc= 181.5 48.
Emb= 37 0.
577.44 / 577.78
160+00
C=13 F=3

Exc= 20 1
Emb= 925 88.
562.56 / 562.42
151+00
C=4 F=28

Exc= 22 1
Emb= 1111 64.
561.32 / 561.92
153+56
C=6. F=193

Exc= 0.0 0
Emb= 3231 368.
579.54 / 579.08
156+50
C=0 F=162

Exc= 0.0 0
Emb= 1935 81.
562.93 / 562.39
150+50
C=9 F=64

Exc= 0.0 0
Emb= 457 45.
561.37 / 562.03
153+45
C=0. F=58

Exc= 17 2
Emb= 1731 198.
579.66 / 579.53
156+00
C=15 F=46

Exc= 232 42.
Emb= 69 0.
577.21 / 577.91
159+50
C=27 F=9

Exc= 0.0 0
Emb= 5213 27.
562.42 / 562.69
150+40
C=0 F=80

Exc= 663 11
Emb= 4667 38.
561.50 / 562.25
153+20
C=29. F=4

Exc= 0.0 0
Emb= 3611 45.
580.44 / 580.03
155+50
C=51 F=2

Exc= 167 23
Emb= 2312 22.
575.81 / 574.03
159+00
C=3 F=24

Exc= 0.0 0
Emb= 2468 159.
562.31 / 562.88
149+15
C=0 F=262

Exc= 192 42.
Emb= 79 2.
561.97 / 562.52
153+00
C=52 F=0

Exc= 110.8 30.
Emb= 0.0 0
580.45 / 580.53
155+00
C=16 F=5

Exc= 38.3 3.
Emb= 1453 140.
575.18 / 576.19
153+50
C=8 F=137

Exc= 0.0 0
Emb= 1878 133.
562.27 / 562.56
150+00
C=0 F=236

Exc= 367 102.
Emb= 0.0 0
561.27 / 562.52
152+50
C=56 F=0

Exc= 787 54.
Emb= 0.0 0
580.12 / 581.03
154+50
C=56 F=6

Exc= 0.0 0
Emb= 2889 294.
575.22 / 576.28
152+00
C=5 F=150

Exc= 214 16
Emb= 3426 220.
562.29 / 562.88
149+50
C=17 F=3

Exc= 234 85.
Emb= 37 0
562.27 / 563.53
152+00
C=34 F=0

Exc= 806 91.
Emb= 218 0.
581.86 / 581.03
154+00
C=42 F=0

Exc= 0.0 0
Emb= 323 832.
575.93 / 576.35
157+50
C=3 F=173

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27183-3

4481.41

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10C	1938	42	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 123 — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED — BY — DATE

Exc= ~~111~~ 70
Emb= ~~472~~ 0
575 28 / 576.91 / 576.94
1631+50
C=57 F=0

Exc= ~~136~~ 95
Emb= ~~213~~ 0
575 58 / 577.68 / 577.68
1631+00
C=46 F=0

Exc= ~~2.6~~ 65
Emb= ~~48~~ 0
575 88 / 577.76 / 577.76
1627+50
C=24 F=0

Exc= ~~2.6~~ 44
Emb= ~~38.7~~ 0
576 19 / 577.28 / 577.28
1621+00
C=23 F=0

Exc= ~~8.3~~ 67
Emb= ~~10.2~~ 0
575 99 / 577.67 / 577.67
1617+50
C=49 F=0

Exc= ~~22.4~~ 93
Emb= ~~2.5~~ 0
576 90 / 577.53 / 577.53
1611+00
C=51 F=0

Exc= ~~26.9~~ 75
Emb= ~~2.5~~ 0
577 10 / 577.66 / 577.66
1601+50
C=34 F=0

Exc= ~~9.0~~ 0
Emb= ~~144.7~~ 32
574 85 / 576.55 / 576.55
1641+65
C=0 F=225

Exc= ~~0.0~~ 0
Emb= ~~178.2~~ 141
574 83 / 576.59 / 576.59
1641+75
C=0 F=517

Exc= ~~0.0~~ 0
Emb= ~~144.2~~ 118
574 82 / 576.69 / 576.69
1641+69
C=0 F=547

Exc= ~~0.0~~ 0
Emb= ~~123.3~~ 105
574 81 / 576.91 / 576.91
1641+64
C=0 F=587

Exc= ~~0.0~~ 0
Emb= ~~267.6~~ 220
574 81 / 576.65 / 576.65
1641+50
C=0 F=261

Exc= ~~0.0~~ 0
Emb= ~~189.6~~ 92
574 82 / 576.67 / 576.67
1641+36
C=0 F=107

Exc= ~~9.0~~ 13
Emb= ~~145.0~~ 72
574 97 / 576.78 / 576.78
1641+00
C=19 F=0

Exc= ~~35~~ 23
Emb= ~~123.2~~ 118
579 53 / 578.78 / 578.78
1671+10
C=33 F=0

Exc= ~~7.7~~ 17
Emb= ~~0.0~~ 0
579 20 / 578.66 / 578.66
1671+00
C=44 F=0

Exc= ~~58.3~~ 94
Emb= ~~0.0~~ 0
576 95 / 577.62 / 577.62
1661+50
C=58 F=0

Exc= ~~38.0~~ 93
Emb= ~~6.7~~ 0
575 99 / 576.76 / 576.76
1661+00
C=42 F=0

Exc= ~~6.6~~ 70
Emb= ~~19.2~~ 0
575 32 / 576.57 / 576.57
1651+50
C=34 F=0

Exc= ~~14~~ 0
Emb= ~~52.7~~ 0
575 91 / 576.51 / 576.51
1651+14
C=3 F=14

Exc= ~~9.6~~ 0
Emb= ~~52.6~~ 26
574 36 / 576.53 / 576.53
1651+00
C=0 F=86

Exc= ~~65~~ 0
Emb= ~~56.5~~ 46
583 20 / 583.71 / 583.71
1681+50
C=0 F=50

Exc= ~~0.0~~ 0
Emb= ~~125.0~~ 114
581 52 / 581.68 / 581.68
1681+00
C=0 F=73

Exc= ~~0.0~~ 0
Emb= ~~50.3~~ 49
580 99 / 581.28 / 581.28
1671+83
C=0 F=79

Exc= ~~0.0~~ 0
Emb= ~~43.8~~ 41
580 50 / 580.74 / 580.74
1671+73
C=0 F=131

Exc= ~~0.0~~ 0
Emb= ~~132.8~~ 121
579 98 / 580.25 / 580.25
1671+38
C=0 F=306

Exc= ~~7.3~~ 0
Emb= ~~7.3~~ 70
579 71 / 580.01 / 580.01
1671+50
C=0 F=187

PLATE 3—CROSS SECTION C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27185-3

4481.42

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-C	1938	43	46

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TYPED		
NOTE BOOK	AREAS		
NO. 2-16	AREAS CHECKED		

Exc= ~~139.1~~ 125
Emb= 0.0 0

597 12 ~~596.71~~

111+50

C = 23
F = 0

Exc= 0.0
Emb= ~~44.2~~ 57

605 20 ~~604.81~~

114+50

C = 0
F = 202

Exc= ~~58.6~~ 44
Emb= ~~46.6~~ 0

595 20 ~~594.87~~

111+00

C = 5
F = 10

Exc= 0.0
Emb= ~~22.2~~ 29

605 13 ~~604.78~~

114+50

C = 0
F = 187

Exc= ~~39.7~~ 36
Emb= ~~4.2~~ 5

593 13 ~~592.22~~

110+50

C = 34
F = 0

Exc= ~~49.3~~ 32
Emb= ~~44.2~~ 63

604 21 ~~603.78~~

114+00

C = 0
F = 90

Exc= ~~88.6~~ 91
Emb= 0.0 0

596 27 ~~596.76~~

110+00

C = 64
F = 0

Exc= ~~143.3~~ 143
Emb= 0.0 0

603 12 ~~602.60~~

113+50

C = 35
F = 0

Exc= ~~143.3~~ 183
Emb= 0.0 0

601 37 ~~601.38~~

113+00

C = 163
F = 0

Exc= ~~193.3~~ 143
Emb= 0.0 0

598 25 ~~598.26~~

109+50

C = 33
F = 0

Exc= ~~229.7~~ 278
Emb= 0.0 0

600 25 ~~599.94~~

112+50

C = 137
F = 0

Exc= ~~48.6~~ 46
Emb= 0.0 0

597 30 ~~597.34~~

109+00

C = 100
F = 0

Exc= ~~234.3~~ 212
Emb= 0.0 0

598 27 ~~598.01~~

112+00

C = 52
F = 0

Exc= ~~69.7~~ 68
Emb= ~~1.4~~ 0

596 25 ~~596.02~~

108+50

C = 29
F = 0

Exc= ~~139.1~~ 310
Emb= 0.0 0

607 14 ~~607.18~~

116+50

C = 159
F = 10

Exc= ~~179.8~~ 195
Emb= ~~4.6~~ 9

606 29 ~~606.77~~

116+00

C = 22
F = 10

Exc= ~~139.1~~ 139
Emb= ~~114.6~~ 132

606 27 ~~606.25~~

115+50

C = 0
F = 132

Exc= 0.0 0
Emb= ~~283.3~~ 269

605 33 ~~605.34~~

115+00

C = 0
F = 159

Exc= 0.0 0
Emb= ~~207.8~~ 206

605 20 ~~604.84~~

114+67

C = 0
F = 176

Exc= 0.0 0
Emb= ~~41.8~~ 50

605 31 ~~604.79~~

114+00

C = 0
F = 253

Exc= ~~5.1~~ 5
Emb= ~~18.7~~ 19

607 13 ~~607.86~~

118+23

C = 2
F = 116

Exc= ~~29.6~~ 35
Emb= ~~32.5~~ 37

607 27 ~~607.30~~

118+06

C = 109
F = 0

Exc= ~~29.6~~ 30
Emb= 0.0 0

607 28 ~~607.79~~

118+00

C = 165
F = 0

Exc= ~~370.6~~ 415
Emb= 0.0 0

607 29 ~~607.61~~

117+50

C = 281
F = 0

Exc= ~~507.4~~ 603
Emb= 0.0 0

607 31 ~~607.23~~

117+00

C = 370
F = 0

Exc= ~~93.3~~ 100
Emb= 0.0 0

607 29 ~~607.40~~

116+92.85

C = 387
F = 0

Exc= ~~166.2~~ 130
Emb= 0.0 0

607 29 ~~607.35~~

116+00

C = 388
F = 0

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U. S. A. 27188-3

4481.43

143

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10 C	1938	44	46

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

ORIGINAL SURVEY — NOTE BOOK — NO. 182 — SURVEYED — PLOTTED — TEMPLATE — PROFILE — AREAS CHECKED — BY — DATE

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27188-3

4481.44

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	10 C	1938	45	46

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

ORIGINAL SURVEY — NOTE BOOK NO. 2 — SURVEYED 10-5 — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

Exc= 70.2 60
Emb= 5.6 0
649.25
648.78
C=65
R=0
188+50

Exc= 133.8 116
Emb= 0.0 0
647.45
646.50
C=136'
R=0
188+11

Exc= 133.5 123
Emb= 0.0 0
645.91
645.33
C=156
R=0
188+00

Exc= 134.2 656
Emb= 0.0 0
645.29
644.87
C=644'
R=0
187+64

Exc= 122.4 116
Emb= 0.0 0
643.73
643.26
C=644'
R=0
187+74.12

Exc= 329.4 305
Emb= 0.0 0
642.29
641.88
C=192
R=0
187+50

Exc= 309.3 222
Emb= 0.0 0
639.81
639.29
C=445
R=0
187+00

Exc= 491 80
Emb= 15.7 7.0
660.60
657.12
C=9
R=8
190+50

Exc= 367 39
Emb= 12.6 0
659.35
658.81
C=13
R=12
190+28

Exc= 310.8 39
Emb= 7.3 0
659.75
658.81
C=96
R=0
190+00

Exc= 267 52
Emb= 0.0 0
657.93
657.87
C=92
R=0
189+89

Exc= 311.4 64
Emb= 0.0 0
656.45
656.11
C=205
R=0
189+73

Exc= 125.4 14
Emb= 3.4 3
655.12
655.02
C=9
R=7
189+50

Exc= 111 18
Emb= 13.6 8
650.18
650.14
C=10
R=8
189+00

Exc= 176.3 200
Emb= 0.0 0
670.77
672.16
C=677'
R=0
192+90

Exc= 124.7 644
Emb= 0.0 0
669.50
672.27
C=559'
R=0
192+50

Exc= 119.4 825
Emb= 0.0 0
668.28
672.27
C=1.79
R=0
192+20

Exc= 114.8 479
Emb= 0.0 0
665.91
666.27
C=1.79
R=0
191+50

Exc= 185.2 257
Emb= 0.0 0
663.98
663.76
C=177
R=0
191+00

Exc= 376.7 507
Emb= 0.0 0
677.76
677.30
C=193
R=0
195+50

Exc= 170.6 271
Emb= 0.0 0
676.76
676.30
C=1000
R=0
195+00

Exc= 138.6 244
Emb= 0.0 0
675.45
675.11
C=1.44
R=0
194+50

Exc= 225.6 361
Emb= 0.0 0
674.11
673.76
C=1.44
R=0
194+00

Exc= 225.6 620
Emb= 0.0 0
672.45
672.21
C=1.44
R=0
193+50

Exc= 335.2 946
Emb= 0.0 0
671.76
672.68
C=578
R=0
193+00

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
MADE IN U.S.A. 27185-3

4481.45

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10 - C	1938	46	48

FINAL SURVEY — SURVEYED, PLOTTED, TRIANGULATE, AREAS, AREAS CHECKED — BY — DATE

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

Exc= 0.0 0
Emb= 115.9 83

619.83
681.28

C = 0
F = 178

198+36

Exc= 145.8 189
Emb= 0.0 0

678.49
679.19

C = 176
F = 0

200+59

Exc= 1602 230
Emb= 0.0 0

676.51
674.86

C = 0
F = 504

203+00

Exc= 0.0 0
Emb= 188.0 491

675.29
675.05

C = 0
F = 242

201+50

Exc= 94.0 14
Emb= 0.0 0

Exc= 99.0 1
Emb= 238.0 153

679.92
681.50

C = 1
F = 52

198+00

Exc= 393.0 450

676.92
675.30

C = 0
F = 437

202+75

Exc= 0.0 0
Emb= 298.0 439

676.13
675.56

C = 0
F = 207

204+00

Exc= 331.3 96
Emb= 0.0 0

678.55
680.27

C = 87
F = 0

200+30

Exc= 88.9 177
Emb= 101.9 48

679.18
681.51

C = 190
F = 0

197+50

Exc= 374.6 490

677.14
675.74

C = 0
F = 571

202+50

Exc= 0.0 0
Emb= 388.8 662

676.43
676.26

C = 0
F = 419

203+50

Exc= 343.8 185
Emb= 0.0 0

678.55
680.20

C = 85
F = 0

200+00

Exc= 377.7 546
Emb= 0.0 0

679.78
681.22

C = 397
F = 0

196+99.21

Exc= 343.8 162
Emb= 0.0 0

677.19
680.20

C = 112
F = 0

199+50

Exc= 0.0 0
Emb= 474.5 851

677.48
675.65

C = 0
F = 348

202+00

Exc= 0.0 0
Emb= 474.8 289

676.59
676.30

C = 0
F = 557

203+34

Exc= 331.7 144
Emb= 264.9 0

677.53
680.26

C = 43
F = 0

199+00

Exc= 0.0 0
Emb= 275.7 367

Exc= 375.6 76.1
Emb= 0.0 0

677.03
680.24

C = 417
F = 0

196+50

Exc= 118 40
Emb= 361.5 55

677.11
681.22

C = 0
F = 28

196+60

Exc= 0.0 0
Emb= 360.7 260

677.83
677.56

C = 0
F = 48

201+50

Exc= 311.7 63
Emb= 361.6 44

676.68
676.45

C = 0
F = 642

203+24

Exc= 549.1 715
Emb= 0.0 0

678.03
680.72

C = 355
F = 0

196+00

Exc= 0.0 0
Emb= 476.8 169

679.78
681.51

C = 0
F = 142

198+50

Exc= 0.0 0
Emb= 180.7 260

678.17
678.65

C = 73
F = 0

201+00

676.23
674.64

C = 0
F = 523

203+12

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
MADE IN U.S.A. 27180-2

4481.46