STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	50	69

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

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

184+36 — Exc. 121, Emb. 0 — Cut 156, Fill 0

184+00 — Exc. 121, Emb. 0 — Cut 174, Fill 0

183+80 — Exc. 210, Emb. 0 — Cut 153, Fill 0

183+50 — Exc. 954, Emb. 0 — Cut 244, Fill 0

183+00 — Exc. 1212, Emb. 0 — Cut 153, Fill 0

182+50 — Exc. 220, Emb. 0 — Cut 110, Fill 0

186+50 — Exc. 450, Emb. 0 — Cut 171, Fill 0

186+00 — Exc. 713, Emb. 0 — Cut 357, Fill 0

185+50 — Exc. 731, Emb. 0 — Cut 355, Fill 0

185+00 — Exc. 615, Emb. 0 — Cut 405, Fill 0

184+50 — Exc. 46, Emb. 0 — Cut 259, Fill 0

184+45 — Exc. 66, Emb. 0 — Cut 236, Fill 0

189+50 — Exc. 598, Emb. 0 — Cut 286, Fill 0

189+00 — Exc. 654, Emb. 0 — Cut 372, Fill 0

188+50 — Exc. 584, Emb. 0 — Cut 334, Fill 0

188+00 — Exc. 404, Emb. 0 — Cut 302, Fill 0

187+50 — Exc. 252, Emb. 0 — Cut 134, Fill 0

187+00 — Exc. 452, Emb. 0 — Cut 138, Fill 0

50 40 30 20 10 ℄ 10 20 30 40 50

PLATE 3 CROSS SECTION S. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

50

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	51	67

FINAL SURVEY — NOTE BOOK NO. 3-4 — SUBMITTED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

193+50 — R/W — Exc. 600 Emb. 0
193+00 — R/W — Exc. 1671 Emb. 0
192+50 — R/W — Exc. 672 Emb. 0
192+00 — R/W — Exc. 456 Emb. 0
191+50 — R/W — Exc. 194 Emb. 1
191+00 — R/W — Exc. 74 Emb. 4
190+50 — R/W — Exc. 1721 Emb. 3
190+00 — R/W — Exc. 396 Emb. 0

197+26 — R/W — Cut 424 Fill 0 — Exc. 196 Emb. 8
197+00 — R/W — Cut 440 Fill 0 — Exc. 323 Emb. 0
196+50 — R/W — Cut 288 Fill 0 — Exc. 538 Emb. 0
196+00 — R/W — Cut 356 Fill 0 — Exc. 706 Emb. 0
195+50 — R/W — Cut 155 Fill 0 — Exc. 700 Emb. 0
195+00 — R/W — Cut 54 Fill 1 — Exc. 728 Emb. 0
194+50 — R/W — Cut 26 Fill 3 — Exc. 624 Emb. 0
194+00 — R/W — Cut 160 Fill 0 — Exc. 7431 Emb. 0

198+50 — R/W — Cut 278 Fill 15 — Exc. 0 Emb. 748
198+25 — R/W — Cut 180 Fill 0 — Exc. 0 Emb. 80
198+12 — R/W — Cut 160 Fill 0 — Exc. 0 Emb. 30
198+08 — R/W — Cut 421 Fill 0 — Exc. 81 Emb. 45
198+00 — R/W — Cut 342 Fill 0 — Exc. 54 Emb. 36
197+81 — R/W — Cut 414 Fill 0 — Exc. 1031 Emb. 36
197+50 — R/W — Cut 272 Fill 0 — Exc. 20 Emb. 12
197+36 — R/W — Cut 377 Fill 0 — Exc. 471 Emb. 7

198+50 — R/W — Cut 0 Fill 556
198+25 — R/W — Cut 0 Fill 134
198+12 — R/W — Cut 0 Fill 125
198+08 — R/W — Cut 0 Fill 257
198+00 — R/W — Cut 12 Fill 66
197+81 — R/W — Cut 142 Fill 35
197+50 — R/W — Cut 38 Fill 27
197+36 — R/W — Cut 38 Fill 20

50 40 30 20 10 ℄ 10 20 30 40 50 40 30 20 10 ℄ 10 20 30 40 50 50 40 30 20 10 ℄ 10 20 30

PLATE 3 CROSS SECTION ℄ P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	52	69

FINAL SURVEY — NOTE BOOK NO. 24 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

201+00 — Exc. 214 Emb. 60 — Cut 0 Fill 74

200+50 — Exc. 637 Emb. 0 — Cut 45 Fill 25

200+00 — Exc. 681 Emb. 45 — Cut 239 Fill 49

199+50 — Exc. 270 Emb. 128 — Cut 2 Fill 69

199+00 — Exc. 1 Emb. 108 — Cut 3 Fill 165

198+77 — Exc. 0 Emb. 107 — Cut 0 Fill 250

198+69 — Exc. 0 Emb. 391

198+53

203+75 — Exc. 0 Emb. 2708 — Cut 0 Fill 2508

203+50 — Exc. 0 Emb. 2895 — Cut 0 Fill 2045

203+00 — Exc. 0 Emb. 1735 — Cut 0 Fill 1187

202+50 — Exc. 1 Emb. 1052 — Cut 0 Fill 600

202+00 — Exc. 0 Emb. 65 — Cut 0 Fill 425

201+50 — Exc. 0 Emb. 350 — Cut 0 Fill 311

50 40 30 20 10 ℄ 10 20 30 40 50

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER - MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

52

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	53	67

FINAL SURVEY — SURVEYED — PLOTTED — TRIANGULATE — NOTE BOOK — AREAS — NO. 252 — BY — DATE 11/1967 — AREAS CHECKED

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

205+50
Exc. 0
Emb. 3006
7410
757.82
R/W
Cut 0
Fill 1033

205+00
Exc. 0
Emb. 4827
7222
756.50
R/W
Cut 0
Fill 2214

204+50
Exc. 0
Emb. 5511
7203
755.04
R/W
Cut 0
Fill 2999

204+00
Exc. 0
Emb. 2528
7195
753.47
R/W
Cut 0
Fill 2053

208+50
Exc. 2133
Emb. 0
7221
763.43
R/W
Cut 916
Fill 0

208+00
Exc. 2519
Emb. 0
7283.2
762.79
R/W
Cut 1388
Fill 0

207+50
Exc. 2057
Emb. 0
7281.2
762.03
R/W
Cut 1333
Fill 0

207+00
Exc. 1125
Emb. 0
7275.4
761.16
R/W
Cut 889
Fill 0

206+50
Exc. 302
Emb. 119
7264.0
760.17
R/W
Cut 326
Fill 0

206+00
Exc. 0
Emb. 1075
7245.7
759.02
R/W
Cut 0
Fill 128

PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

53
53

d 8136

Horsham - Wayne 240-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	54	67

FINAL SURVEY — NOTE BOOK NO. 900 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE — J.C. 9/23/67

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

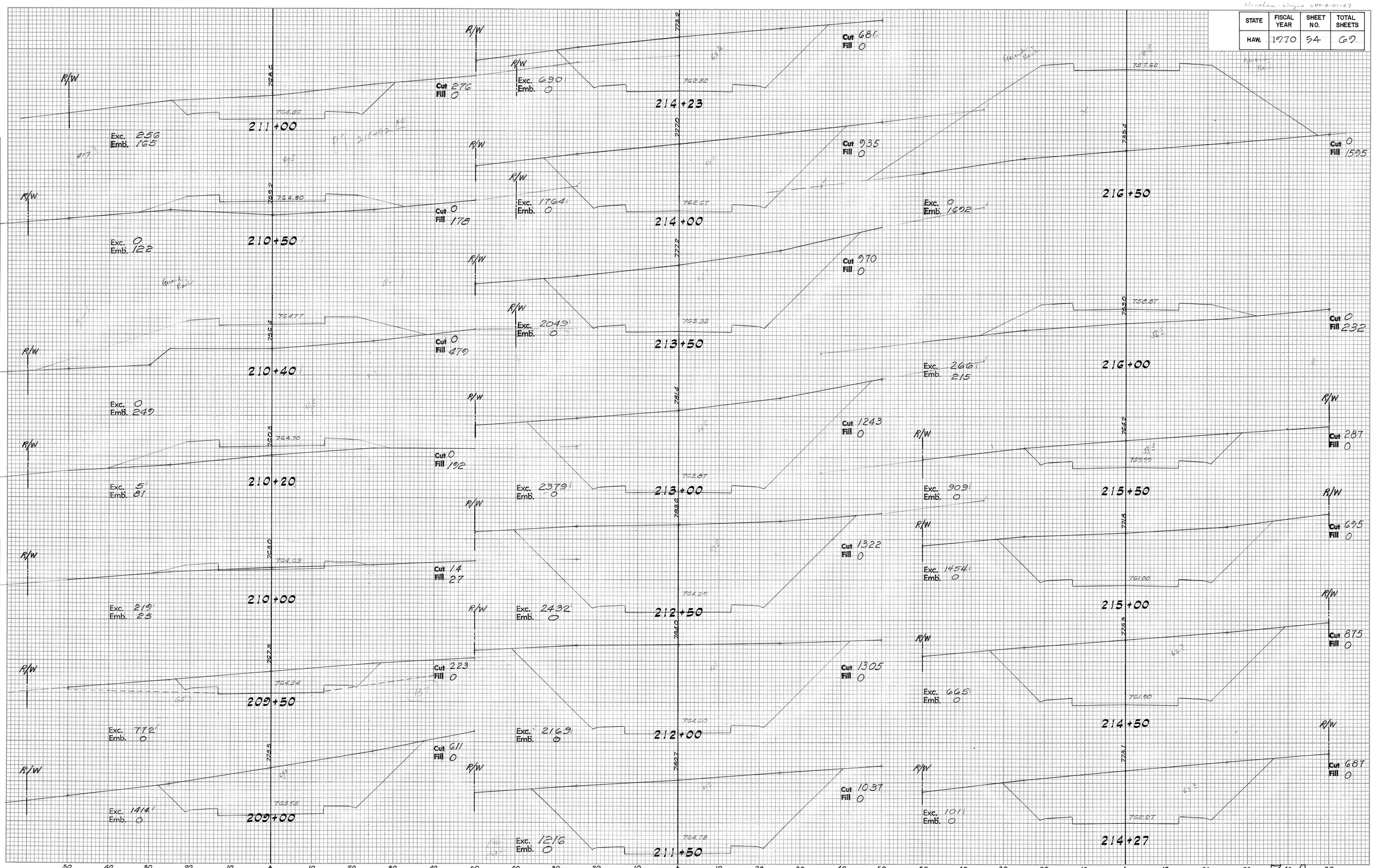


PLATE 3 CROSS SECTION ℄ P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

54

18750.5 ~~18248~~

Hamakua - Waipio 240-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	55	609

FINAL SURVEY — NOTE BOOK — NO. 306 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE 9/12/67 — dc 11-2-67

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

218+50
Exc. 0
Emb. 2706
Cut 0
Fill 1094
753.87
7336
R/W

218+00
Exc. 0
Emb. 4419
Cut 0
Fill 1828
754.02
7328
R/W

217+50
Exc. 0
Emb. 5413
Cut 0
Fill 2944
755.03
7320
R/W

217+00
Exc. 0
Emb. 4170
Cut 0
Fill 2908
756.27
7312
R/W

221+75
Exc. 517
Emb. 0
Cut 646
Fill 0
754.20
7336
R/W

221+50
Exc. 674
Emb. 0
Cut 470
Fill 0
753.75
7328
R/W

221+00
Exc. 339
Emb. 7
Cut 258
Fill 0
753.08
7320
R/W

220+50
Exc. 181
Emb. 76
Cut 108
Fill 8
752.63
7312
R/W

220+00
Exc. 107
Emb. 185
Cut 88
Fill 74
752.43
7304
R/W

219+50
Exc. 26
Emb. 529
Cut 28
Fill 126
752.47
7296
R/W

219+00
Exc. 0
Emb. 1426
Cut 0
Fill 446
752.74
7288
R/W

50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

PLATE 3 CROSS SECTION U. S. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

555

Hanalei - Waipa 3-40A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	56	69

FINAL SURVEY — DATE 9/12/67 — BY sdl, Cyc — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO. Doc

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

225+00 — R/W — Exc. 1556 Emb. 0 — 723.1 — 723.65

224+50 — R/W — Exc. 1274 Emb. 0 — 725.8 — 721.90

224+00 — R/W — Exc. 355 Emb. 189 — 725.7 — 720.30

223+50 — R/W — Exc. 0 Emb. 434 — 725.2 — 758.83 — 757.85

223+00 — R/W — Exc. 9 Emb. 386 — 719.1 — 757.85

222+50 — R/W — Exc. 490 Emb. 81 — 755.88 — 752.2

222+00 — R/W — Exc. 539 Emb. 0 — 722.5 — 754.70

227+00 — R/W — Cut 687 Fill 0 — 722.9 — 723.57

226+80 — R/W — Exc. 496 Emb. 0 — Cut 993 Fill 0 — 723.6 — 723.80

226+50 — R/W — Exc. 1114 Emb. 0 — Cut 383 Fill 0 — 725.3 — 728.04

226+00 — R/W — Exc. 2125 Emb. 0 — Cut 0 Fill 204 — 725.5 — 726.50

225+50 — R/W — Exc. 1654 Emb. 0 — Cut 0 Fill 330 — 722.2 — 726.20

225+25 — R/W — Exc. 547 Emb. 0 — Cut 519 Fill 0 — 724.3 — 724.57

229+00 — R/W — Exc. 473 Fill 0 — 729.1 — 775.71

228+50 — R/W — Exc. 0 Emb. 687 — Cut 0 Fill 231 — 723.8 — 774.18

228+22 — R/W — Exc. 0 Emb. 793 — Cut 866 Fill 0 — 725.3 — 773.32

228+00 — R/W — Exc. 0 Emb. 906 — Cut 1139 Fill 0 — 725.5 — 772.64

227+50 — R/W — Exc. 0 Emb. 1906 — Cut 1156 Fill 0 — 722.2 — 772.11

227+25 — R/W — Exc. 438 Emb. 791 — Cut 630 Fill 0 — 720.4 — 771.11

Cut 0 Fill 511 — Cut 0 Fill 1019 — Cut 0 Fill 1205 — Cut 0 Fill 854

50 40 30 20 10 ℄ 10 20 30 40 50

PLATE 3 CROSS SECTION ℄ P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

56

11.170 7

Hawaii no. - Waipio 240-A-C1-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	57	69

FINAL SURVEY — NOTE BOOK — NO. 302 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE 9/12/69

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

232+00 — 784.00 — 7741 — R/W — Exc. 0 Emb. 1006 — R/W — Cut 0 Fill 619

231+50 — 780.86 — 7726 — R/W — Exc. 6 Emb. 298 — R/W — Cut 17 Fill 337

231+30 — 782.38 — 7722 — R/W — Exc. 3 Emb. 99 — R/W — Cut 0 Fill 199

231+20 — 782.13 — 7715 — R/W — Exc. 0 Emb. 123 — R/W — Cut 0 Fill 132

231+00 — 781.62 — 7704 — R/W — Exc. 0 Emb. 474 — R/W — Cut 0 Fill 380

230+50 — 780.25 — 7717 — R/W — Exc. 0 Emb. 796 — R/W — Cut 0 Fill 480

230+00 — 778.78 — 7692 — R/W — Exc. 0 Emb. 794 — R/W — Cut 0 Fill 377

229+50 — 777.25 — 7691 — R/W — Exc. 0 Emb. 563

235+50 — 788.67 — 7855 — R/W — Exc. 127 Emb. 184 — R/W — Cut 30 Fill 116

235+00 — 788.35 — 7823 — R/W — Exc. 363 Emb. 62 — R/W — Cut 108 Fill 83

234+50 — 788.00 — 7829 — R/W — Exc. 147 Emb. 0 — R/W — Cut 371 Fill 0

234+00 — 787.01 — 7866 — R/W — Exc. 908 Emb. 0 — R/W — Cut 515 Fill 0

233+50 — 787.36 — 7911 — R/W — Exc. 540 Emb. 0 — R/W — Cut 466 Fill 0

233+00 — 786.69 — 7868 — R/W — Exc. 124 Emb. 124 — R/W — Cut 118 Fill 0

232+50 — 785.01 — 7822 — R/W — Exc. 14 Emb. 480 — R/W — Cut 16 Fill 134

232+00 — 785.01 — 7784 — R/W — Exc. 0 Emb. 929 — R/W — Cut 0 Fill 385

238+50 — 788.18 — 7933 — R/W — Exc. 1662 Emb. 0 — R/W — Cut 1164 Fill 0

238+00 — 788.56 — 7896 — R/W — Exc. 775 Emb. 0 — R/W — Cut 632 Fill 0

237+50 — 788.81 — 7918 — R/W — Exc. 207 Emb. 93 — R/W — Cut 206 Fill 0

237+00 — 788.95 — 7885 — R/W — Exc. 17 Emb. 299 — R/W — Cut 18 Fill 101

236+50 — 788.37 — 7838 — R/W — Exc. 0 Emb. 377 — R/W — Cut 0 Fill 222

236+00 — 788.88 — 7841 — R/W — Exc. 28 Emb. 279 — R/W — Cut 0 Fill 186

PLATE 3 CROSS SECTION — U. S. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

57

240-1.6

4921

Honolulu - Waipio 240 A-61-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	58	69

FINAL SURVEY — NOTE BOOK NO. 260 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE 9/1/70

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

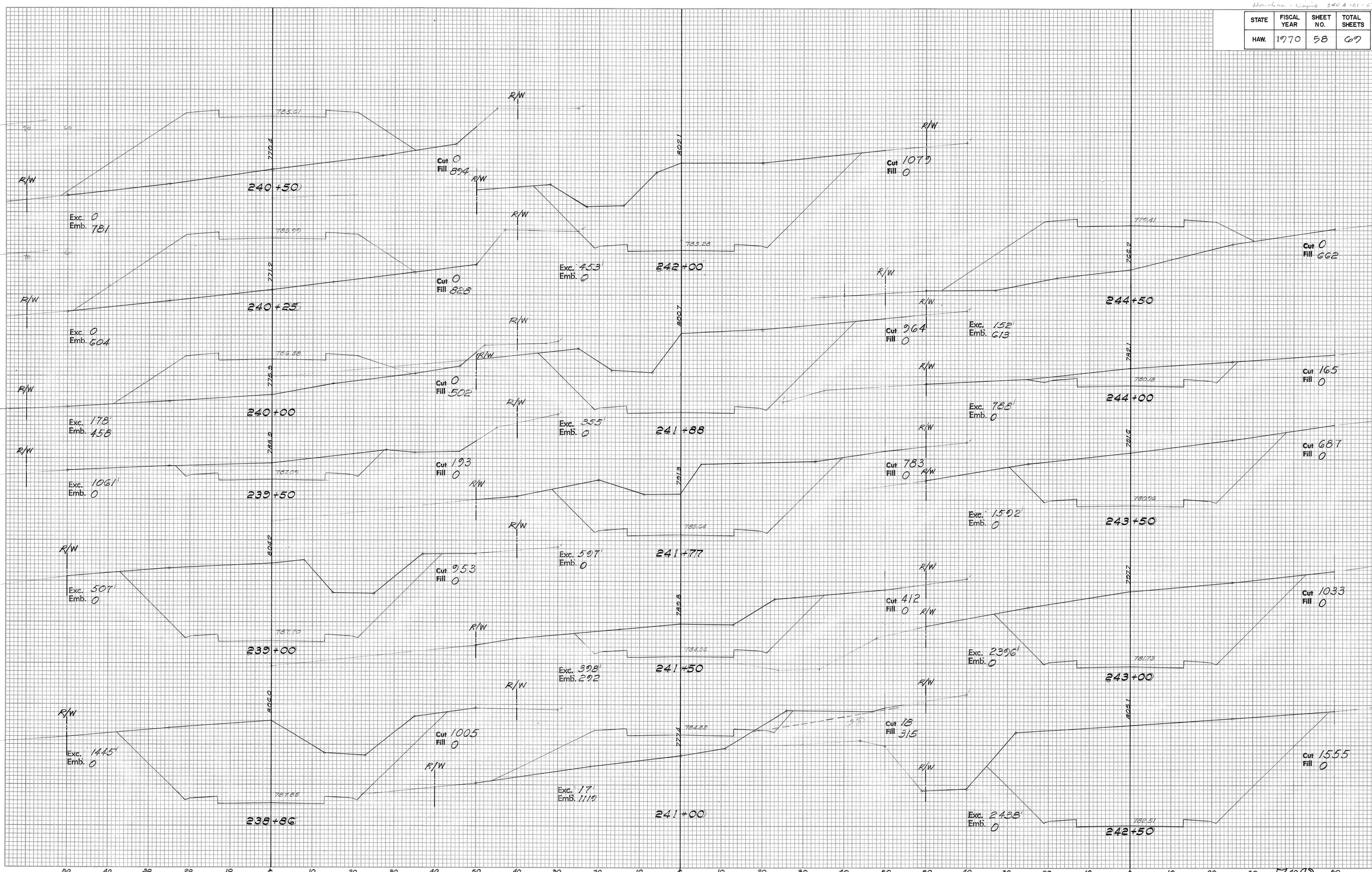


PLATE 3 CROSS SECTION ℄ P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

58

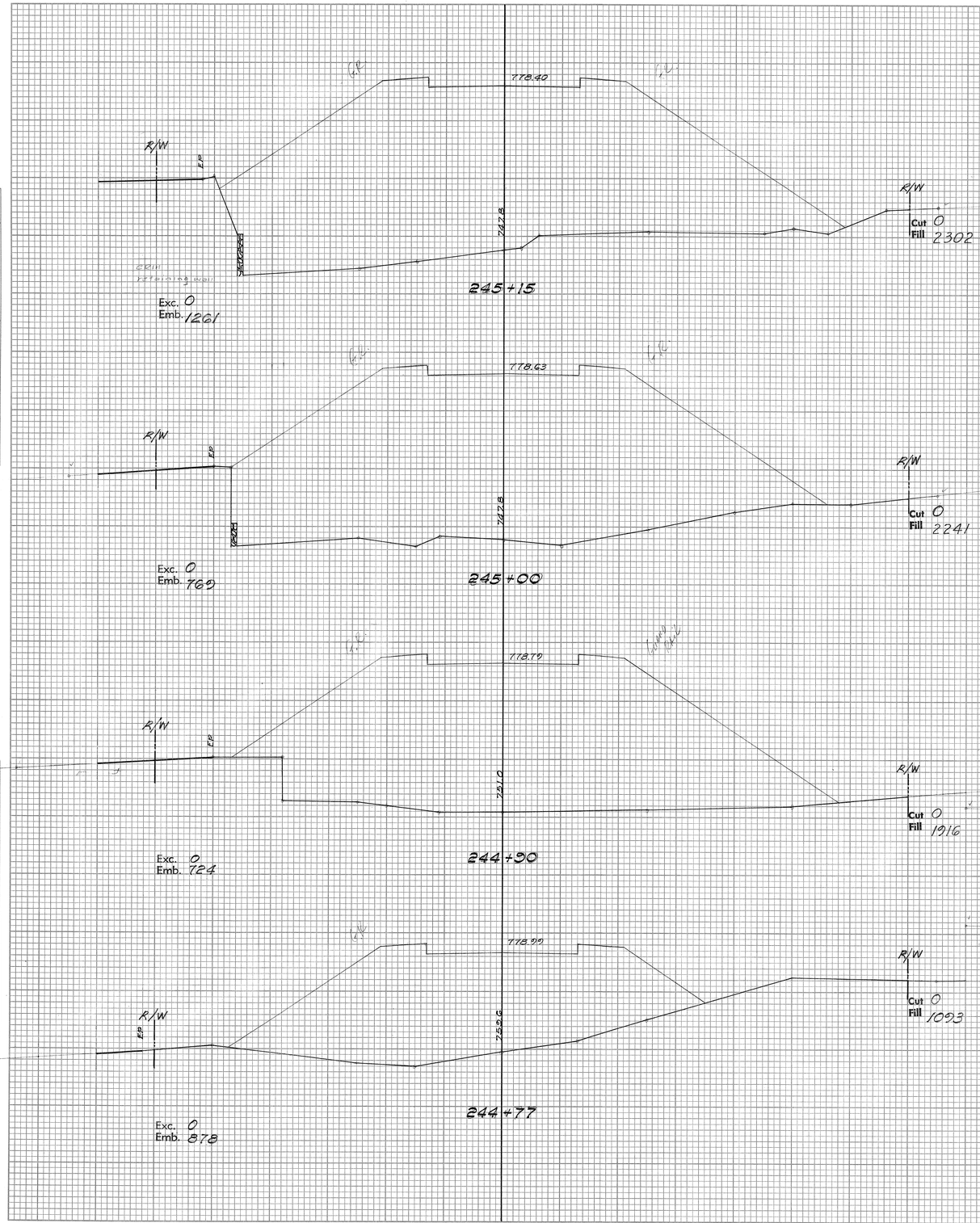
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Hopeka 23 - Wapie 240-A-61-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	59	69

FINAL SURVEY — NOTE BOOK NO. 200 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE 9/18/67 — JAK 9/21/67

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



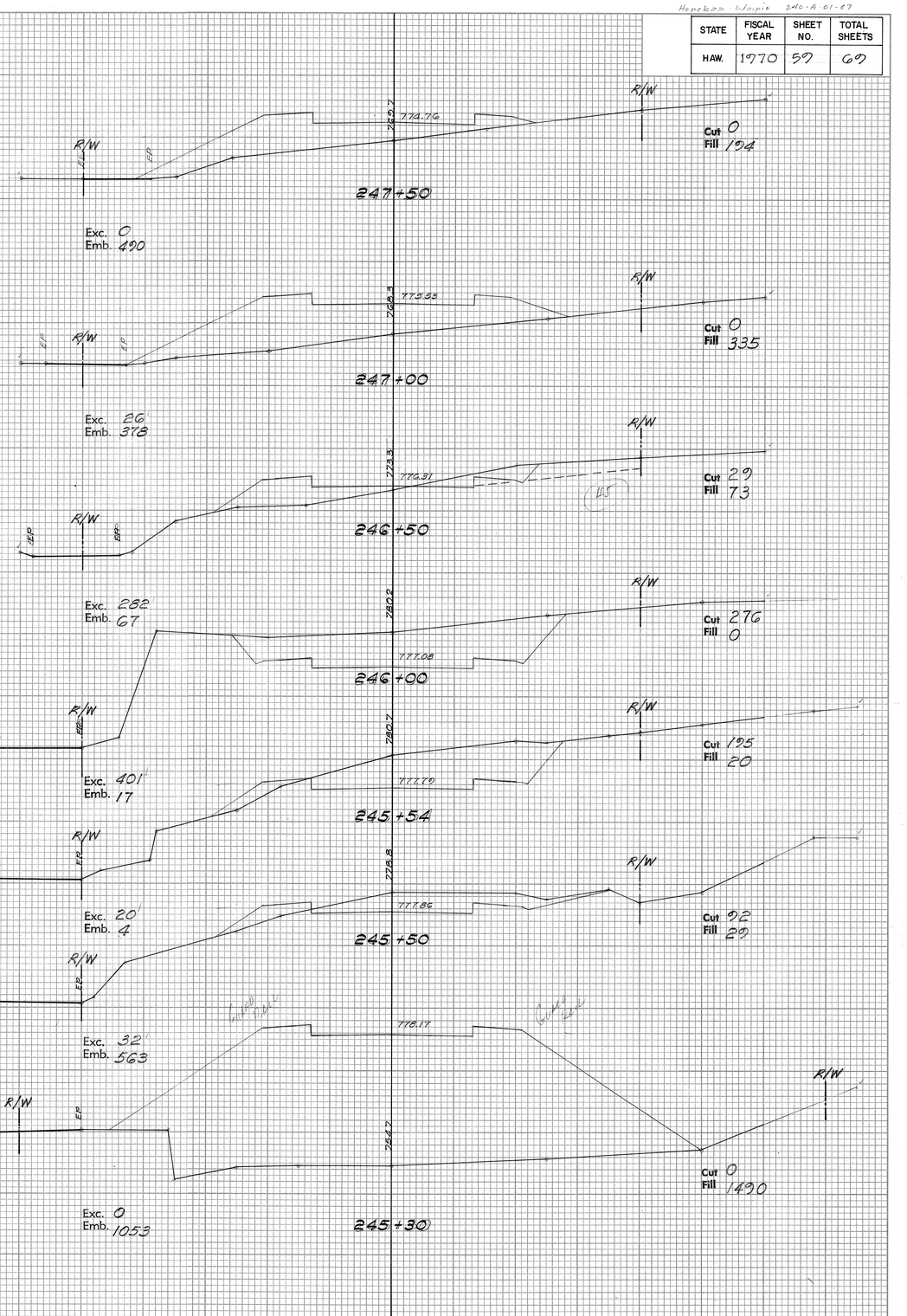


PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

59

761

Honoban - Waipio 216-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	60	69

FINAL SURVEY — NOTE BOOK NO. 262 — SURVEYED — PLOTTED — TYPING — AREAS — AREAS CHECKED — BY — DATE 4/11/67

ORIGINAL SURVEY — SURVEYED — PLOTTED — TYPING — AREAS — AREAS CHECKED — BY — DATE

251+50 — Exc. 557 Emb. 25 — Cut 209 Fill 3
251+00 — Exc. 201 Emb. 27 — Cut 393 Fill 24
250+78 — Exc. 92 Emb. 55 — Cut 101 Fill 42
250+50 — Exc. 75 Emb. 177 — Cut 77 Fill 64
250+00 — Exc. 27 Emb. 177 — Cut 5 Fill 128
249+50 — Exc. 62 Emb. 131 — Cut 24 Fill 64
249+00 — Exc. 148 Emb. 110 — Cut 43 Fill 78
248+50 — Exc. 165 Emb. 69 — Cut 117 Fill 50
248+00 — Exc. 57 Emb. 202 — Cut 62 Fill 24

254+50 — Exc. 29 Emb. 123 — Cut 0 Fill 73
254+00 — Exc. 49 Emb. 98 — Cut 31 Fill 66
253+66 — Exc. 21 Emb. 54 — Cut 47 Fill 89
253+50 — Exc. 49 Emb. 72 — Cut 23 Fill 92
253+15 — Exc. 31 Emb. 9 — Cut 5 Fill 128
253+00 — Exc. 58 Emb. 17 — Cut 58 Fill 15
252+70 — Exc. 60 Emb. 9 — Cut 47 Fill 15
252+50 — Exc. 221 Emb. 9 — Cut 115 Fill 10
252+00 — Exc. 308 Emb. 3 — Cut 124 Fill 0

257+50 — Exc. 31 Emb. 349 — Cut 1 Fill 347
257+00 — Exc. 49 Emb. 11 — Cut 32 Fill 30
256+80 — Exc. 233 Emb. 1 — Cut 101 Fill 1
256+50 — Exc. 368 Emb. 18 — Cut 319 Fill 1
256+00 — Exc. 72 Emb. 112 — Cut 78 Fill 18
255+50 — Exc. 0 Emb. 24 — Cut 0 Fill 103
255+44 — Exc. 0 Emb. 154 — Cut 0 Fill 109
255+00 — Exc. 0 Emb. 142 — Cut 0 Fill 80

4'x5' Conc. Culvert
24" circ conc. culvert

PLATE 3 CROSS SECTION E. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

60

255+00
3 6W 22
11 3,983

Honolua - Waiohio 240-A-C1-07

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	61	69

FINAL SURVEY — NOTE BOOK NO. 300 — SURVEYED BY — PLOTTED BY — TEMPLATE — AREAS — AREAS CHECKED — DATE 9/21/67

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

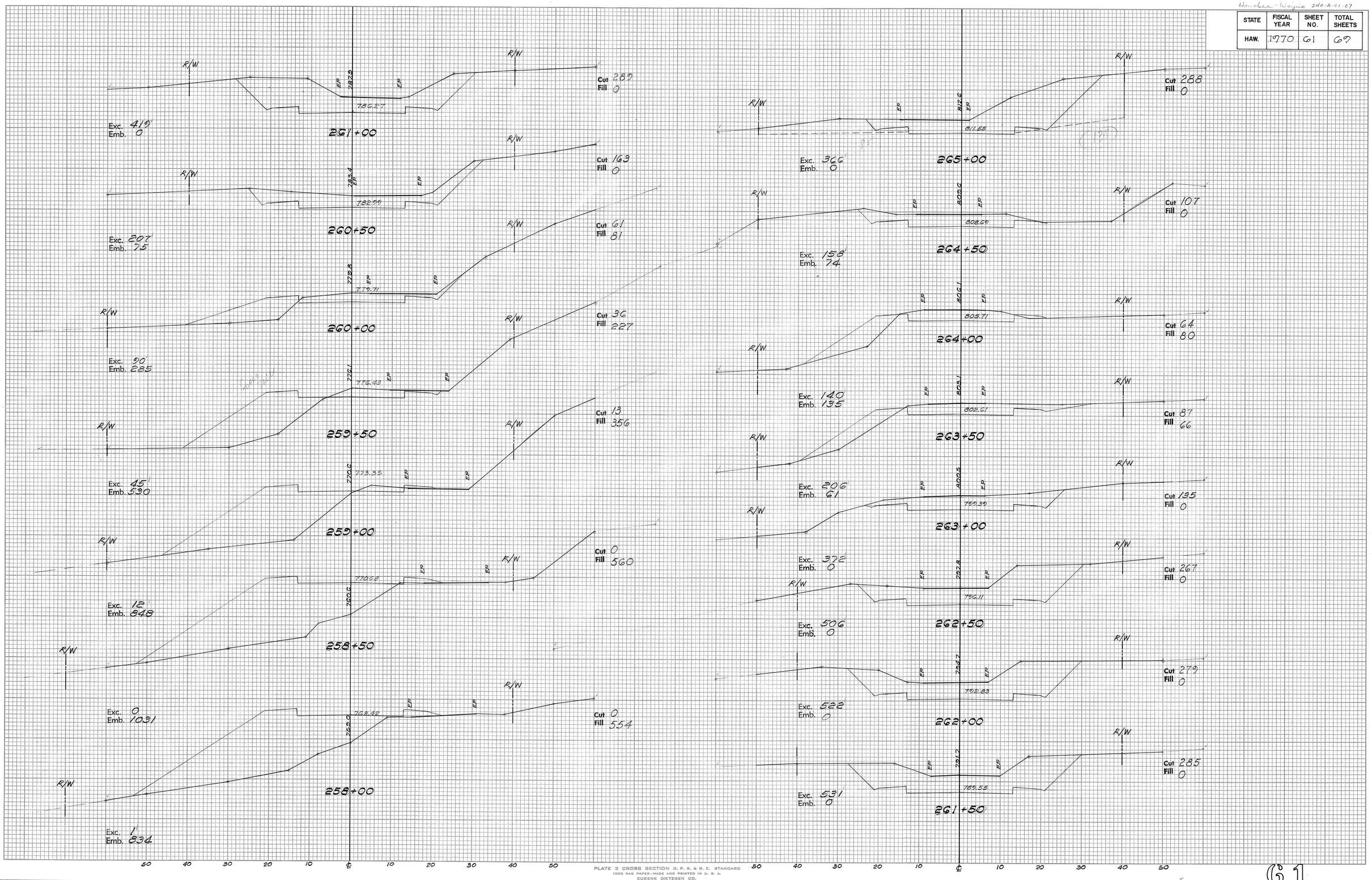


PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

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Hawaiian - Waipio 240-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	62	69

FINAL SURVEY — NOTE BOOK NO. 222 — SURVEYED — PLOTTED — TRACED — AREAS — AREAS CHECKED — BY — DATE — 4/18/67

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

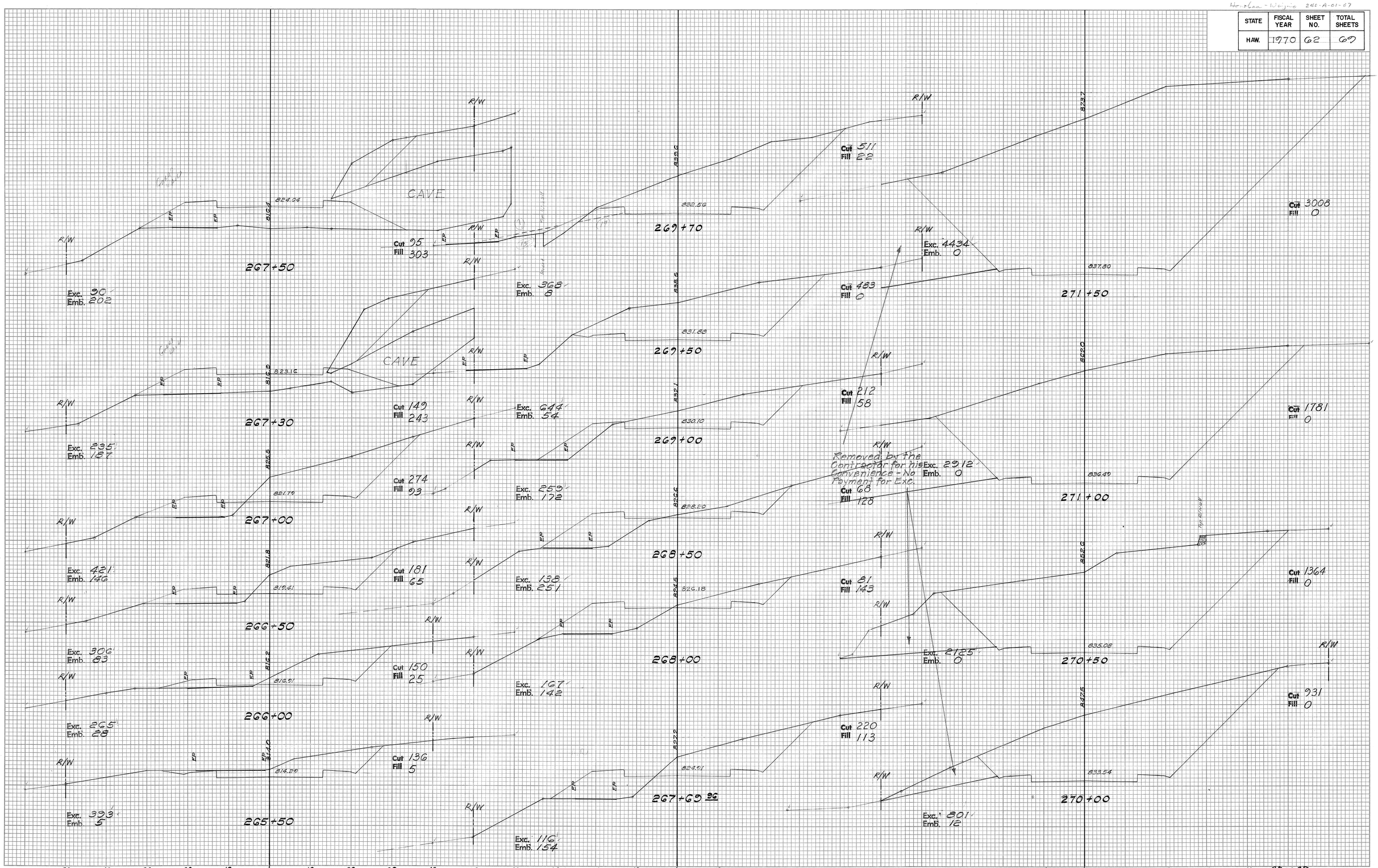


PLATE 3 CROSS SECTION P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

62

13 12670

Honolulu - Waipahu 240-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	63	69

FINAL SURVEY
NOTE BOOK
NO. 220
SURVEYED
PLOTTED
TYPED
AREAS
AREAS CHECKED
BY
DATE
4 6/21/67
4 6/21/67

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

Cut 0
Fill 912
841.78
825.6
273+50
Exc. 618
Emb. 844
R/W

Cut 667
Fill 0
830.5
R/W
R/W
842.07
273+00
Exc. 4170
Emb. 0

Cut 3837
Fill 0
R/W
R/W
3845
Removed by the Contractor for his Convenience No Payment for Excavation
Exc. 6740
Emb. 0
842.03
272+50
3806
Exc. 5972
Emb. 0
838.28
272+00

Cut 3442
Fill 0

843.06
815.1
EP
EP
R/W
R/W
274+50
Exc. 0
Emb. 1578

Cut 0
Fill 1701
R/W

842.24
802.1
EP
EP
R/W
R/W
274+30
Exc. 0
Emb. 1897

Cut 0
Fill 2560

842.61
Corr. by Mason 4-11
802.2
EP
EP
R/W
R/W
274+10
Exc. 0
Emb. 872

Cut 0
Fill 2563
R/W

842.48
814.1
EP
EP
R/W
R/W
274+00
Exc. 0
Emb. 2832

Cut 0
Fill 2147
R/W

50 40 30 20 10 ℄ 10 20 30 40 50

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

63

14 17200

Honoka-Waimea 240-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	64	67

FINAL SURVEY — ORIGINAL SURVEY
SURVEYED BY
PLOTTED BY
TEMPLATE BY
AREAS CHECKED BY
NOTE BOOK NO. 200
DATE 4-10-67 / 9/15/67

275+50 — Exc. 0 Emb. 165 — Cut 0 Fill 578
275+40 — Exc. 6 Emb. 46 — Cut 0 Fill 313
275+32 — Exc. 246 Emb. 46 — Cut 553 Fill 0
275+08 — Exc. 0 Emb. 134 — Cut 0 Fill 103
275+00 — Exc. 0 Emb. 844 — Cut 0 Fill 801
274+75 — Exc. 0 Emb. 1261 — Cut 0 Fill 1023

277+00 — Exc. 435 Emb. 36 — Cut 150 Fill 39
276+50 — Exc. 168 Emb. 0 — Cut 283 Fill 0
276+35 — Exc. 24 Emb. 238 — Cut 0 Fill 715
276+17 — Exc. 0 Emb. 478 — Cut 0 Fill 804
276+00 — Exc. 0 Emb. 463 — Cut 0 Fill 862
275+85 — Exc. 0 Emb. 635 — Cut 0 Fill 630
275+62 — Exc. 0 Emb. 268 — Cut 0 Fill 804

280+50 — Exc. 0 Emb. 478 — Cut 0 Fill 410
280+00 — Exc. 242 Emb. 67 — Cut 0 Fill 106
279+66 — Exc. 241 Emb. 0 — Cut 384 Fill 0
279+50 — Exc. 530 Emb. 34 — Cut 428 Fill 0
279+00 — Exc. 205 Emb. 14 — Cut 144 Fill 37
278+50 — Exc. 130 Emb. 173 — Cut 77 Fill 116
278+00 — Exc. 33 Emb. 156 — Cut 63 Fill 71
277+50 — Exc. 173 Emb. 126 — Cut 37 Fill 97

PLATE 3 CROSS SECTION P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

64

15 8639

Horsham Wayne 240-A-01-67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	65	69

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE — 9/17/67

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

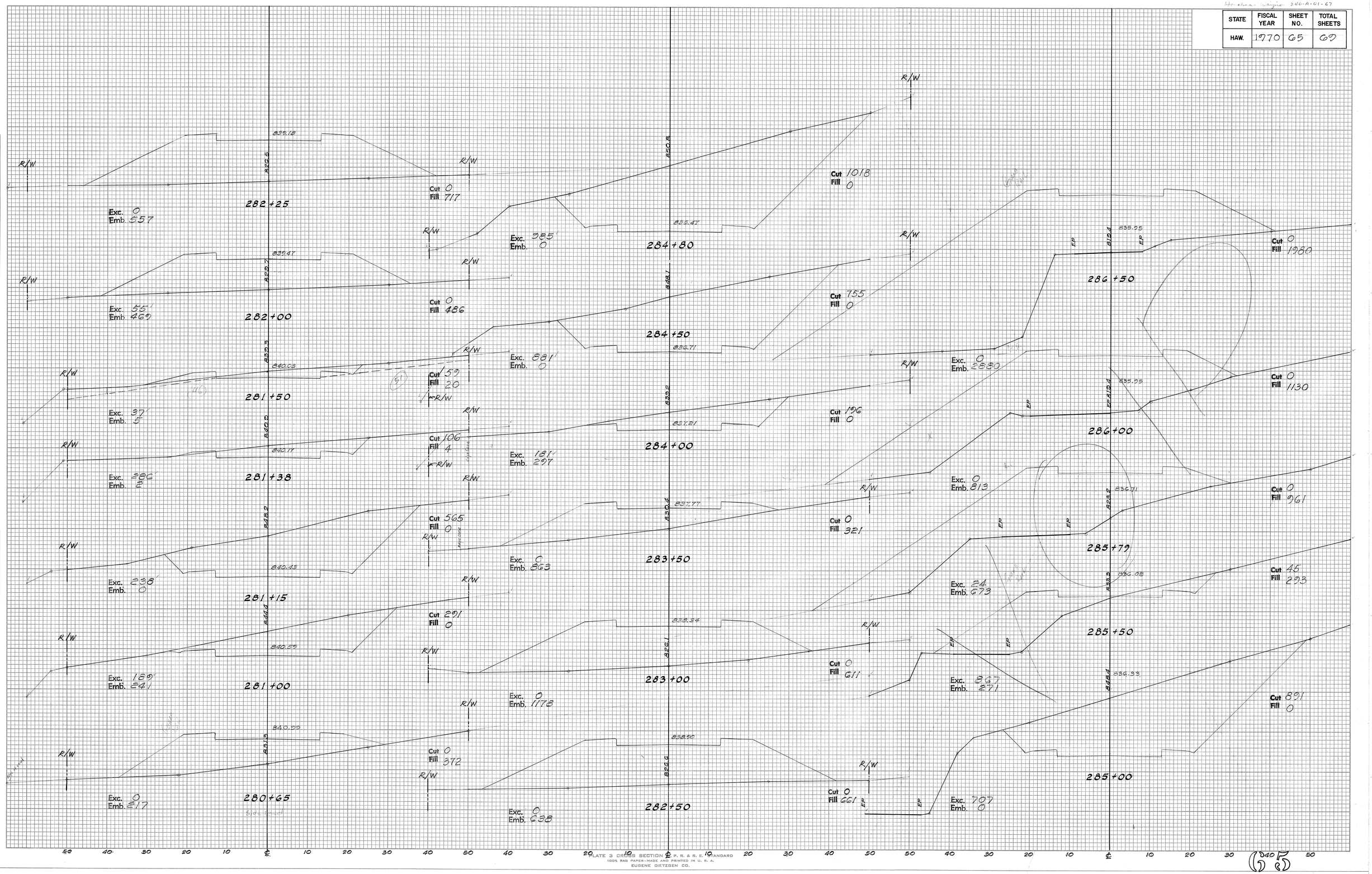


PLATE 3 CROSS SECTION ℄ P. R. & R. E. STANDARD

100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

65

285+50
16
2852

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	66	69

FINAL SURVEY — DATE — CHECKED — TRACED — NOTE BOOK — PAGE — DATE CHECKED

ORIGINAL SURVEY — DATE — SURVEYED — PLOTTED — TRACED — NOTE BOOK — PAGE — DATE CHECKED

Guardrail

835.98 — 286+65 — R/W — Cut 0 Fill 1631 — Exc. 0 Emb. 1017

835.95 — 286+50 — R/W — Cut 0 Fill 2032 — Cut=78 — Exc. 722' Emb. 0

835.95 — 286+00 — R/W — Cut 0 Fill 1153 — Cut=18 — Exc. 484' Emb. 0

836.71 — 285+79 — R/W — Cut 0 Fill 972 — Exc. 0 Emb. 2049

836.08 — 285+50 — R/W — Cut 43 Fill 302 — Exc. 780' Emb. 50

836.33 — 285+00 — R/W — Cut 0 Fill 898 — Exc. 0 Emb. 315

836.07 — 284+00 — R/W — Exc. 710' Emb. 0 — Exc. 0 Emb. 1628

837.56 — 289+00 — R/W — Cut 595 Fill 0 — Exc. 113' Emb. 137

837.80 — 288+70 — R/W — Cut 704 Fill 0 — Exc. 0 Emb. 1257

837.13 — 288+50 — R/W — Cut 608 Fill 0 — Exc. 0 Emb. 2826

836.09 — 288+00 — R/W — Cut 234 Fill 54 — Exc. 0 Emb. 826

836.06 — 287+74 — R/W — Cut 0 Fill 230 — Exc. 0 Emb. 684

836.32 — 287+50 — R/W — Cut 0 Fill 478 — Exc. 871' Emb. 280

836.07 — 287+00 — R/W — Cut 0 Fill 880 — Exc. 0 Emb. 1628

840.17 — 292+00 — R/W — Cut 588 Fill 0 — Exc. 753' Emb. 0

839.74 — 291+50 — R/W — Cut 225 Fill 0 — Exc. 613' Emb. 0

839.30 — 291+00 — R/W — Cut 437 Fill 0 — Exc. 1165' Emb. 0

838.87 — 290+50 — R/W — Cut 821 Fill 0 — Exc. 1545' Emb. 0

838.43 — 290+00 — R/W — Cut=52 — Cut 848 Fill 0 — Exc. 1363' Emb. 0

838.00 — 289+50 — R/W — Cut=51 — Cut 624 Fill 0 — Exc. 1129' Emb. 0

60 40 30 20 10 ℄ 10 20 30 40 50 40 30 20 10 ℄ 10 20 30 40 50 40 30 20 10 ℄ 10 20 30 40 60

66

46 7065 ALBANENE TRACING PAPER

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	67	69

295+20 — Exc. 628' Emb. 0 — Cut 649 Fill 0
295+00 — Exc. 1166' Emb. 0 — Cut 1048 Fill 0
294+50 — Exc. 388' Emb. 0 — Cut 211 Fill 0
294+00 — Exc. 428' Emb. 0 — Cut 208 Fill 0
293+50 — Exc. 677' Emb. 0 — Cut 254 Fill 0
293+00 — Exc. 964' Emb. 0 — Cut 477 Fill 0
292+65 — Exc. 557' Emb. 0 — Cut 1010 Fill 0
292+50 — Exc. 1467' Emb. 0 — Cut 996 Fill 0

298+50 — Exc. 317' Emb. 0 — Cut 184 Fill 0
298+00 — Exc. 294' Emb. 0 — Cut 158 Fill 0
297+50 — Exc. 206' Emb. 0 — Cut 160 Fill 0
297+00 — Exc. 144' Emb. 7 — Cut 63 Fill 0
296+50 — Exc. 34' Emb. 5 — Cut 92 Fill 8
296+39 — Exc. 56' Emb. 226 — Cut 78 Fill 18
296+00 — Exc. 0 Emb. 393 — Cut 0 Fill 294 — Additional Fill for Proper Flow of Water
295+65 — Exc. 6' Emb. 88 — Cut 0 Fill 313
295+50 — Exc. 373' Emb. 2 — Cut 23 Fill 4

301+70 — Exc. 18' Emb. 109 — Cut 23 Fill 110
301+50 — Exc. 10' Emb. 87 — Cut 25 Fill 183
301+38 — Exc. 39' Emb. 198 — Cut 22 Fill 208
301+00 — Exc. 137' Emb. 68 — Cut 33 Fill 73
300+50 — Exc. 199' Emb. 0 — Cut 115 Fill 0
300+00 — Exc. 230' Emb. 0 — Cut 100 Fill 0
299+50 — Exc. 313' Emb. 0 — Cut 148 Fill 0
299+00 — Exc. 346' Emb. 0 — Cut 190 Fill 0

67

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	68	69

FINAL SURVEY — DRAWN BY / TRACED BY / CHKD. BY / DATE / SCALE / NOTE BOOK / E.P. / P.I. / FIELD BOOK

ORIGINAL SURVEY — DRAWN BY / TRACED BY / CHKD. BY / DATE / SCALE / NOTE BOOK / E.P. / P.I. / FIELD BOOK

R/W

304+50
Exc. ~~107~~
Emb. ~~6~~
Cut ~~62~~
Fill ~~2~~
864.87

304+00
Exc. ~~103~~
Emb. ~~8~~
Cut ~~54~~
Fill ~~5~~
862.78

303+50
Exc. ~~114~~
Emb. ~~11~~
Cut ~~57~~
Fill ~~4~~
860.52
Cut=2

303+00
Exc. ~~80~~
Emb. ~~6~~
Cut ~~66~~
Fill ~~8~~
858.10
Cut=2.1

302+75
Exc. ~~90~~
Emb. ~~6~~
Cut ~~106~~
Fill ~~5~~
856.84
Cut=7.8

302+50
Exc. ~~120~~
Emb. ~~36~~
Cut ~~89~~
Fill ~~7~~
855.08
Cut=1.41

302+00
Exc. ~~36~~
Emb. ~~79~~
Cut ~~41~~
Fill ~~32~~
853.53

307+43.26
Exc. ~~87~~
Emb. ~~2~~
Cut ~~56~~
Fill ~~0~~
873.71
C:16
F:0

307+00
Exc. ~~95~~
Emb. ~~4~~
Cut ~~52~~
Fill ~~2~~
872.76

306+50
Exc. ~~94~~
Emb. ~~6~~
Cut ~~51~~
Fill ~~2~~
871.52

306+00
Exc. ~~83~~
Emb. ~~12~~
Cut ~~51~~
Fill ~~4~~
870.11

305+50
Exc. ~~81~~
Emb. ~~16~~
Cut ~~39~~
Fill ~~9~~
868.53

305+00
Exc. ~~103~~
Emb. ~~9~~
Cut ~~49~~
Fill ~~8~~
866.78

50 40 30 20 10 ℄ 10 20 30 40 50 50 40 30 20 10 ℄ 10 20 30 40 50

302+01 to 305+50 Exc. $= \left(\frac{1.0' + 11.0'}{2}\right) \times 349' \times 1.8' \times \frac{1}{27} = 93$ c.y.
Exc. within ℄ to 13' Right

852.5
853.10
Exc. = 20
Cut=9
Cut=35
301+89

17
8
2 1/2
8 1/2
= 2.1

GS

1193 1,104

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	1970	69	69

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

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

2+00
1,372.2
Exc. ~~1183~~
Emb. 0
865.34 / 865.00
996
Cut ~~938~~
Fill 0

1+50
472.6
Exc. ~~160~~
Emb. ~~21~~ 13.1
859.77 / 860.58
486
Cut ~~340~~
Fill 0

1+27
Exc. ~~46~~
Emb. ~~33~~
857.78
Cut ~~36~~
Fill ~~50~~

1+02.83
122.7
Exc. ~~95~~
Emb. ~~13~~ 8.7
854.62 / 853.62
55
Cut ~~67~~
Fill ~~23~~ 15

0+71.41
Exc. ~~128~~ 242.1
Emb. 0
850.10 / 849.06
756
Cut ~~102~~
Fill 0

0+40
Exc. 233.3
Emb. 0
844.25 / 845.30
Cut 260
Fill 0

0+20
Exc. 66.3
Emb. 0
841.95
Cut ~~418~~ 370
Fill 0

0+00 15
841.73 / 840.6
Cut 346
Fill 0

Exc. 46.2 Emb. 0
Exc. 4.0 Emb. 0
Exc. 25.4 Emb. 0

0+00 Cut = 1.7 x 41 = 69.7
0+33.5 Cut = 1.7 x 44 = 74.8
0+01 Cut = 1.7 x 80 = 136.0

4+20
Exc. ~~272~~
Emb. 0
874.02
Cut ~~292~~
Fill 0

4+00
Exc. ~~716~~ 275.9
Emb. ~~30~~ 25.0
877.6 / 880.10
873.93 / 877.59
Cut ~~442~~ 110
Fill ~~0~~ 18

3+50
275.0
Exc. ~~496~~
Emb. ~~81~~ 43.5
879.3 / 880.82
873.81 / 878.76
180
Cut ~~333~~
Fill ~~32~~ 9

3+00
216.7
Exc. ~~565~~
Emb. ~~52~~ 35.2
874.0 / 876.42
873.09 / 876.18
100
Cut ~~208~~
Fill ~~56~~ 38

2+50
1,038.0
Exc. ~~847~~
Emb. 0
872.0 / 874.82
870.46 / 869.49
125
Cut ~~407~~
Fill 0

2+16.01
Exc. ~~556~~
Emb. ~~0~~
883.17
866.97
Cut ~~938~~
Fill ~~0~~

881.5
881.50
5+00
Exc. = 64.4
Emb. = 48.8

879.20
876.5
Exc. = 154.2
Emb = 59.6
4+47.3
C = 66
F = 50

874.08
Exc. ~~128~~
Emb. ~~0~~
Cut ~~212~~
Fill ~~0~~
4+33.72

CROSS SECTION
SIDEROAD CONNECTION
AT STA. 294+00

(69)

26" Side Road from Sta. 294+00

PLATE 3. CROSS SECTION — PEIRCE & RUSH CO. — 40 1905 ALBANY, N.Y. — 20" to E.C. 1102.80 — VPVC to EVC