FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	SDA 3(4)1950	26	36	

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

230 — 229.80 — 1+00 — Exc = 28.8, Emb = 100.5, SB = 32.4 — Cut = 26, Fill = 182, SB = 52

230 — 230.26 — 0+75 — Exc = 46.3, Emb = 16.2, SB = 8.9 — Cut = 35, Fill = 35, SB = 18

230 — 230.73 — 0+50 — Exc = 82.2, Emb = 0 — Cut = 65, Fill = 0

230 — 231.29 — 0+20 — Exc = 72.6, Emb = 0 — Cut = 83, Fill = 0

230 — 231.66 — 0+00 — Exc = , Emb = — Cut = 113, Fill = 0

BEG OF PROJECT

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220 — 227.47 — 2+25 — Exc = 63.9, Emb = 0, SB = 1.7 — Cut = 80, Fill = 0

220 — 227.24 — 2+00 — Exc = 43.4, Emb = 23.6, SB = 12.5 — Cut = 58, Fill = 0, SB = 4

220 — 228.40 — 1+75 — Exc = 33.8, Emb = 78.2, SB = 31.5 — Cut = 40, Fill = 51, SB = 63

220 — 228.07 — 1+50 — Exc = 29.6, Emb = 121.2, SB = 49.0 — Cut = 33, Fill = 118, SB = 45

220 — 228.33 — 1+25 — Exc. = 26.8, Emb = 170.8, SB = 46.3 — Cut = 31, Fill = 187, SB = 48

220 — 229.21 — 4+00 — Exc = 23.5, Emb = 0 — Cut = 165, Fill = 0

220 — 229.14 — 3+50 — Exc = 126.8, Emb = 0 — Cut = 152, Fill = 0

220 — 229.61 — 3+25 — Exc = 146.8, Emb = 0 — Cut = 165, Fill = 0

220 — 228.07 — 3+00 — Exc = 217.6, Emb = 0 — Cut = 152, Fill = 0

220 — 227.00 — 2+50 — Exc = 175.5, Emb = 0 — Cut = 83, Fill = 0

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

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

5472.26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDBR-1(16)	1952	27	36

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

220
221.42
5+50
Cut = 318
Fill = 0
Exc = 231.5
Emb = 0

220
221.19
5+30
Cut = 307
Fill = 0
Exc = 523.7
Emb = 0

230
223.64
4+90
Cut = 400
Fill = 0
Exc = 703.7
Emb = 0

230
223.47
4+40
Cut = 360
Fill = 0
Exc = 196.3
Emb = 0

220
223.65
4+30
Cut = 214
Fill = 0
Exc = 210.6
Emb = 0

℄

240
213.66
6+50
Cut = 1257
Fill = 0
Exc = 1003.2
Emb = 0

230
220.02
6+25
Cut = 910
Fill = 0
Exc = 682.9
Emb = 0

230
220.19
6+00
Cut = 565
Fill = 0
Exc = 423.6
Emb = 0

220
220.35
5+75
Cut = 350
Fill = 0
Exc = 309.3
Emb = 0

℄

240
218.16
7+25
Cut = 1436
Fill = 0
Exc = 1354.6
Emb = 0

240
218.63
7+00
Cut = 1490
Fill = 0
Exc = 1361.1
Emb = 0

240
219.09
6+75
Cut = 1450
Fill = 0
Exc = 1253.2
Emb = 0

℄

PLATE 3 - CROSS SECTION — U.S.A.R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

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

5472.27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HSWD11	HSW	SDR-2(14)	1950	88	96

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

210 — 215.93 — 8+45 — Exc = 70.0, Emb = 0

Cut = 93, Fill = 0

210 — 216.32 — 8+24 — Exc = 142.2, Emb = 0

Cut = 87, Fill = 0

210 — 216.75 — 8+00 — Exc = 542.4, Emb = 0

Cut = 233, Fill = 0

230 — 217.23 — 7+75 — Exc = 1014.4, Emb = 0

Cut = 943, Fill = 0

240 — 217.70 — 7+50 — Exc = 1242.6, Emb = 0

Cut = 1248, Fill = 0

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190 — 214.11 — 9+25 — Exc = 0, Emb = 340.6, SB = 103.5

Cut = 0, Fill = 331, SB = 265

190 — 214.62 — 9+15 — Exc = 0, Emb = 530.8, SB = 160.8

Cut = 0, Fill = 957, SB = 294

190 — 214.20 — 9+00 — Exc = 0, Emb = 814.5, SB = 252.5

Cut = 0, Fill = 554, SB = 285

200 — 215.40 — 8+73 — Exc = 0, Emb = 261.0, SB = 92.4

Cut = 0, Fill = 675, SB = 220

200 — 216.70 — 8+57 — Exc = 20.7, Emb = 48.7, SB = 20.4

Cut = 0, Fill = 219, SB = 92

PLATE 3 - CROSS SECTION A.A.S.H.O. & B.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

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

210 — 212.67 — 10+20 — Exc = 27.8, Emb = 127.8, SB = 44.1

Cut = 57, Fill = 32, SB = 28

200 — 213.08 — 10+00 — Exc = 10.0, Emb = 457.2, SB = 162.2

Cut = 18, Fill = 307, SB = 83

190 — 213.60 — 9+70 — Exc = 0, Emb = 376.1, SB = 124.7

Cut = 0, Fill = 538, SB = 269

190 — 213.88 — 9+55 — Exc = 0, Emb = 513.4, SB = 116.9

Cut = 0, Fill = 767, SB = 240

190 — 214.16 — 9+40 — Exc = 0, Emb = 565.0, SB = 123.9

Cut = 0, Fill = 1103, SB = 181

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5472.28

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HOWSIN HSM SDR 3(14)			1959	29	36

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

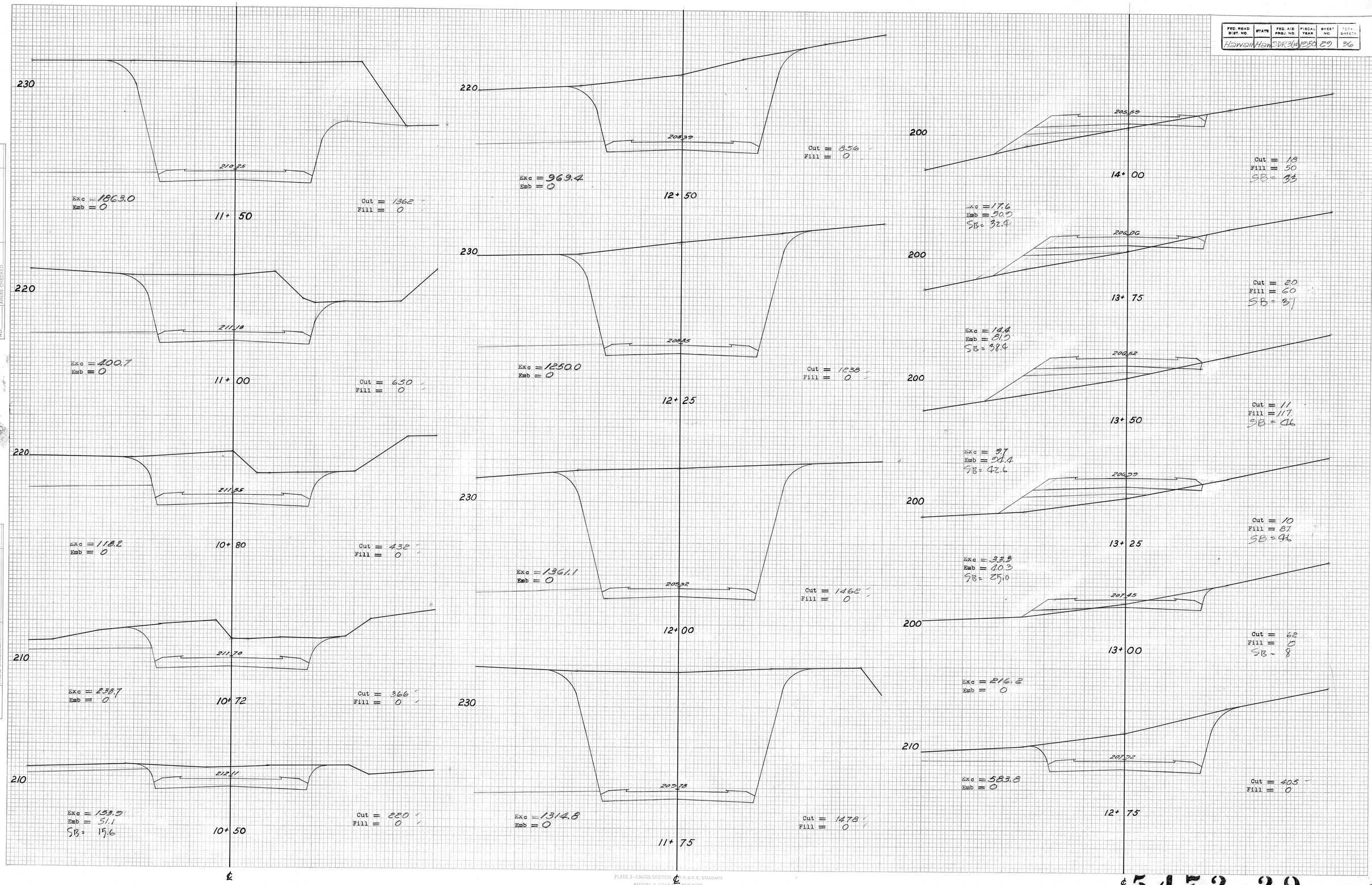


PLATE 3 - CROSS SECTION — U.S.R.R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

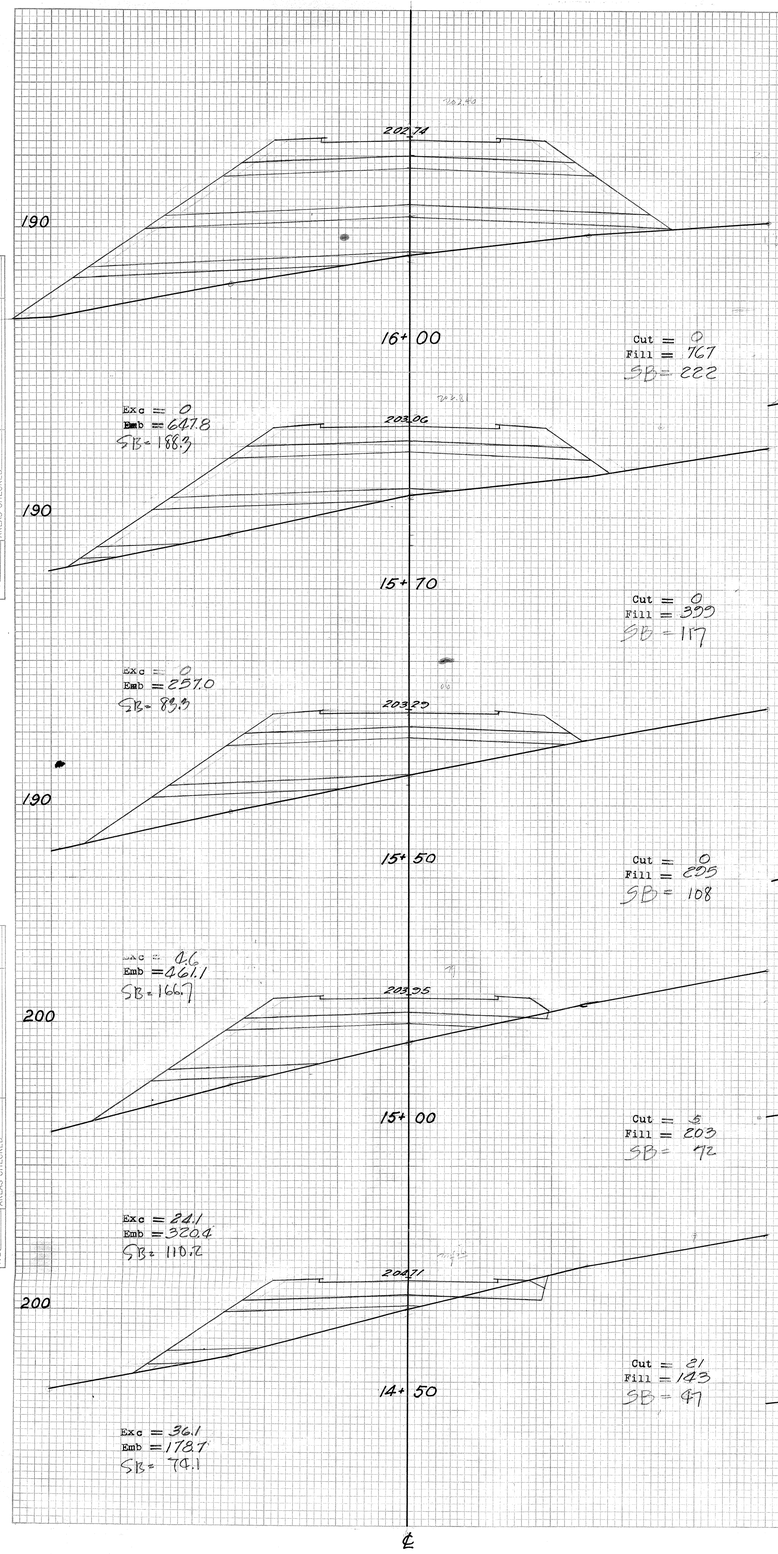
K & E CO. No. 345-3 MADE IN U. S. A.

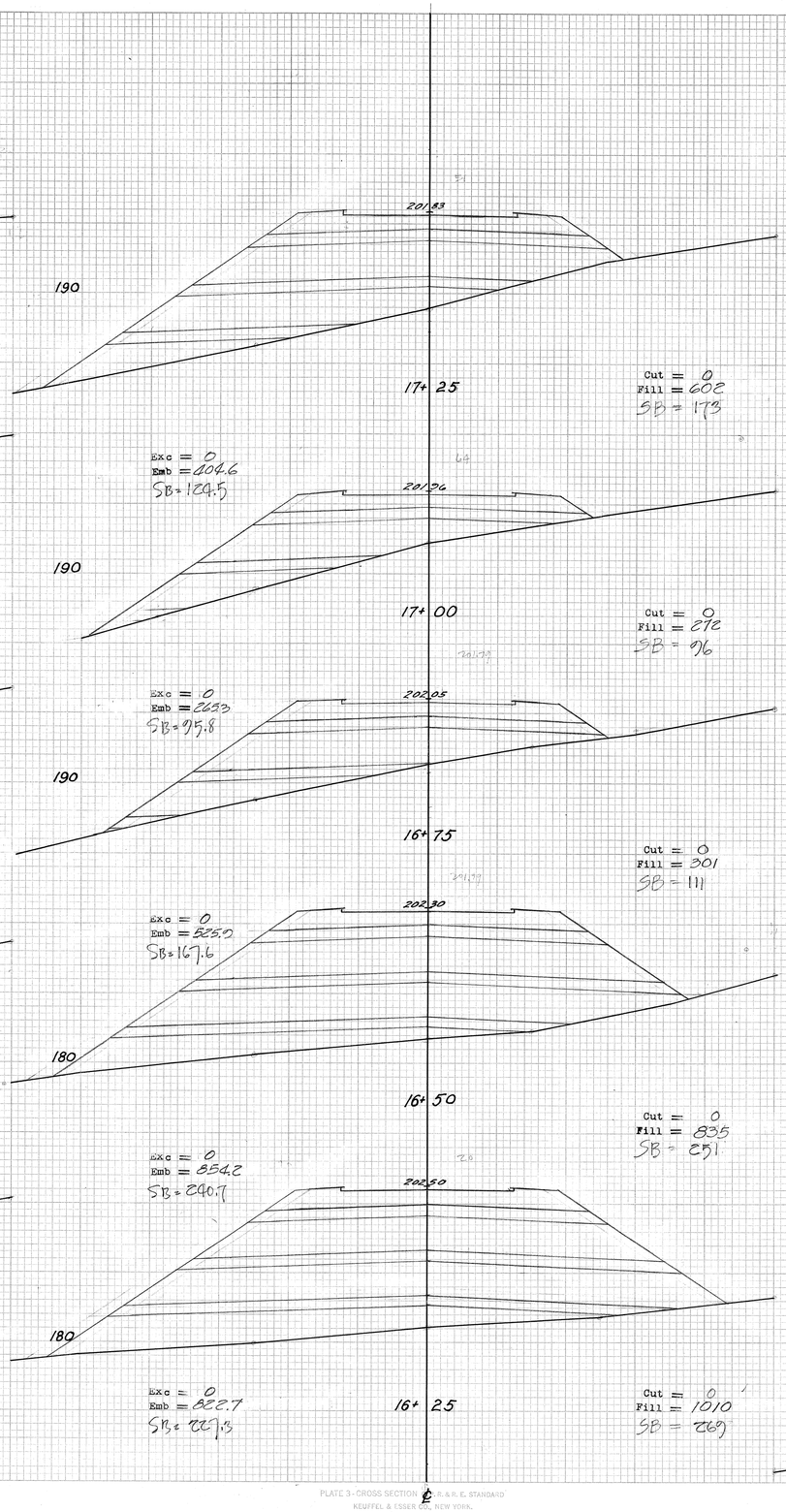
5472.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
HDW-11	WYO.	SDR 364(50)	30	36	

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

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





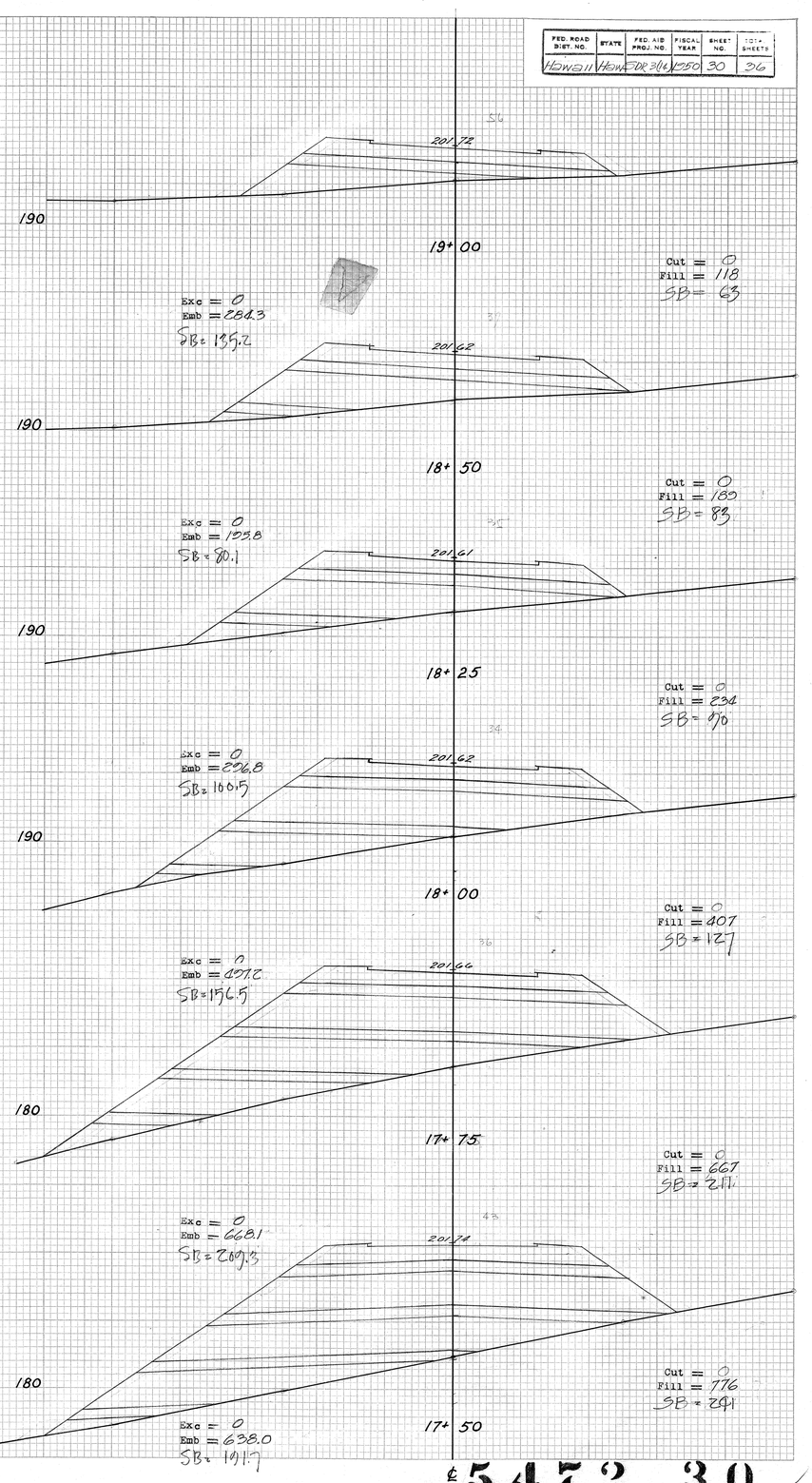


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PLATE 3 - CROSS SECTION U.S.B.R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

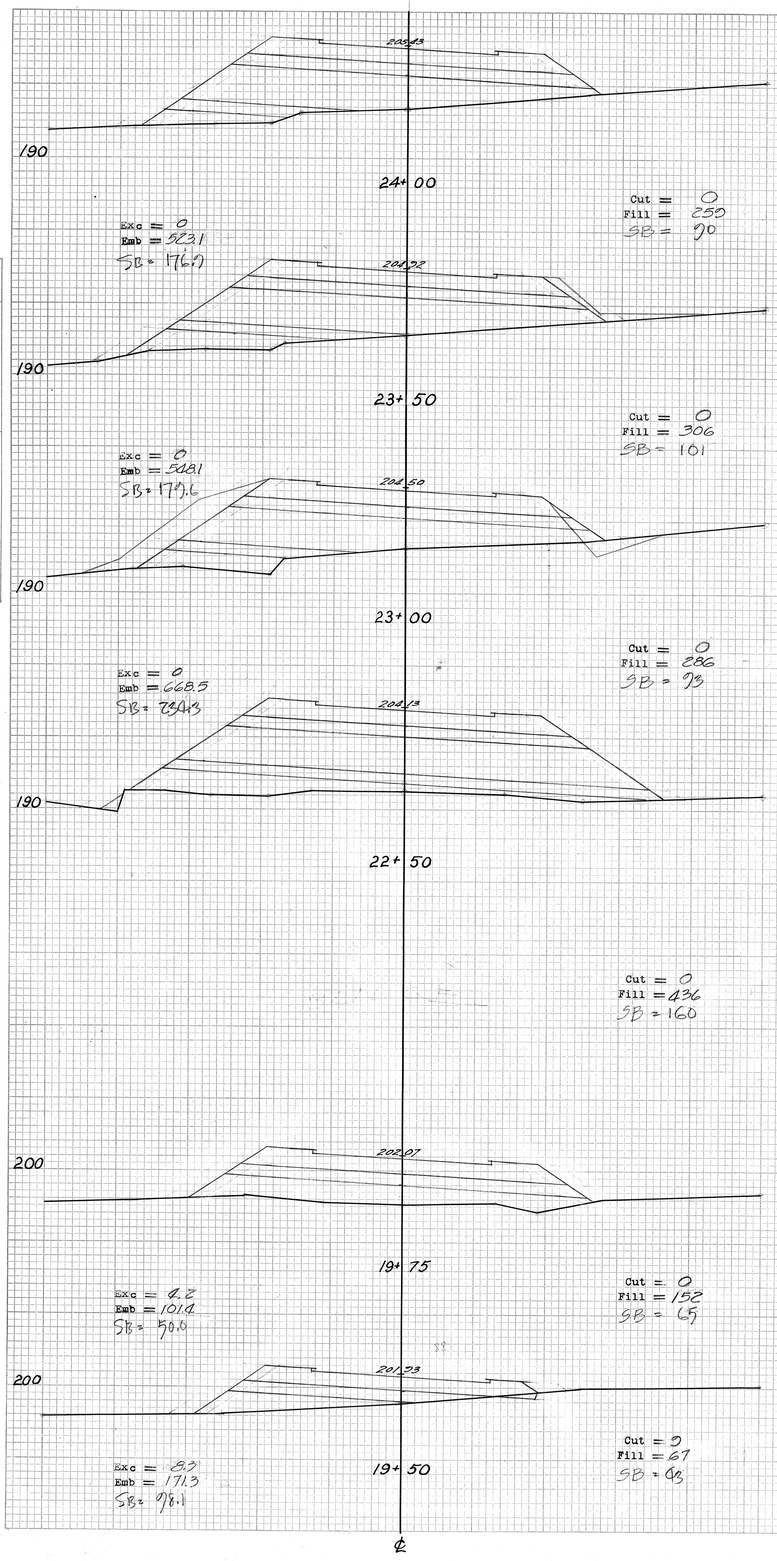
K & E CO. No. 345-3 MADE IN U. S. A.

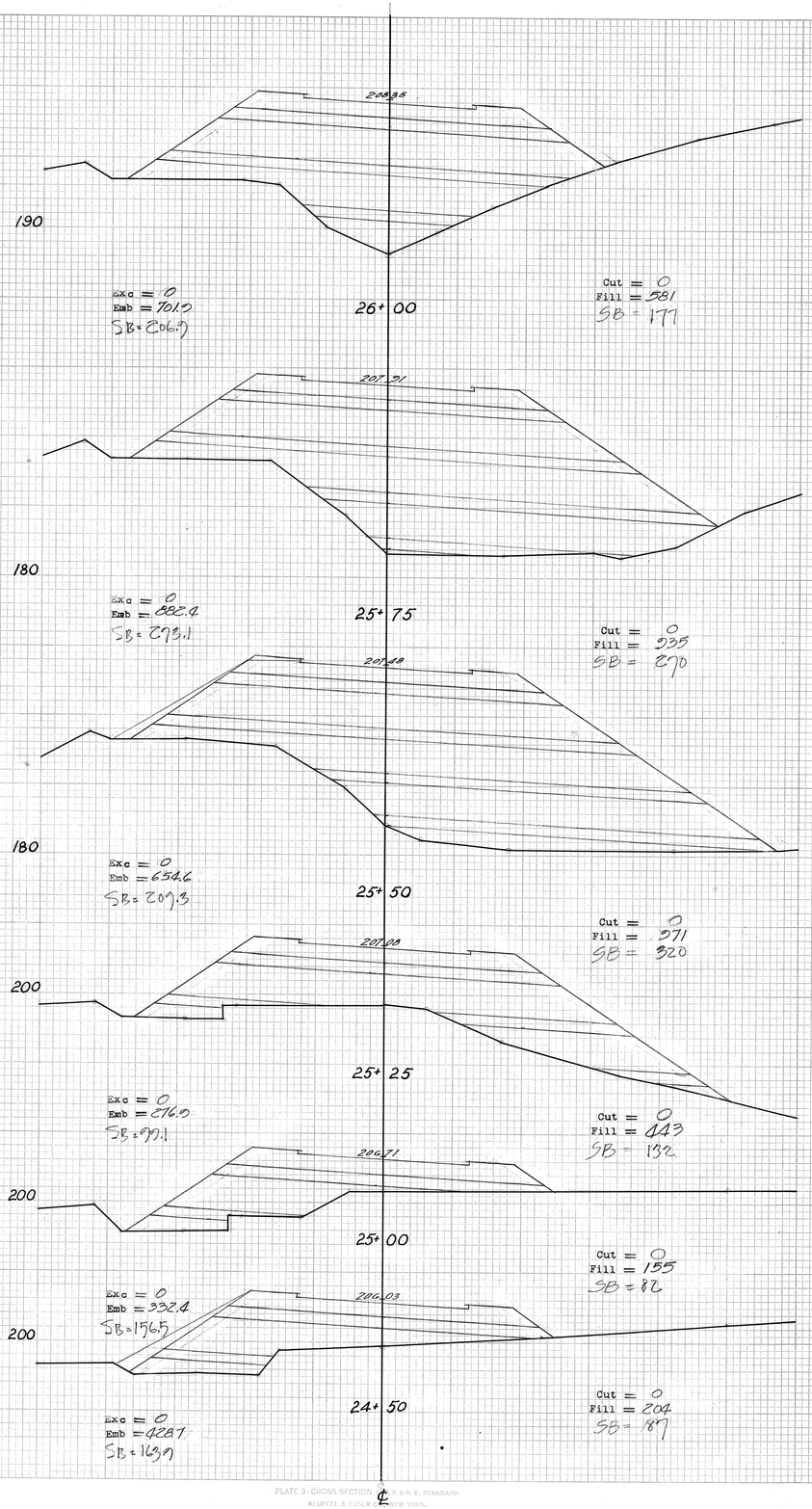
℄ 5472.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	SDR 2(8)050	31		36

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





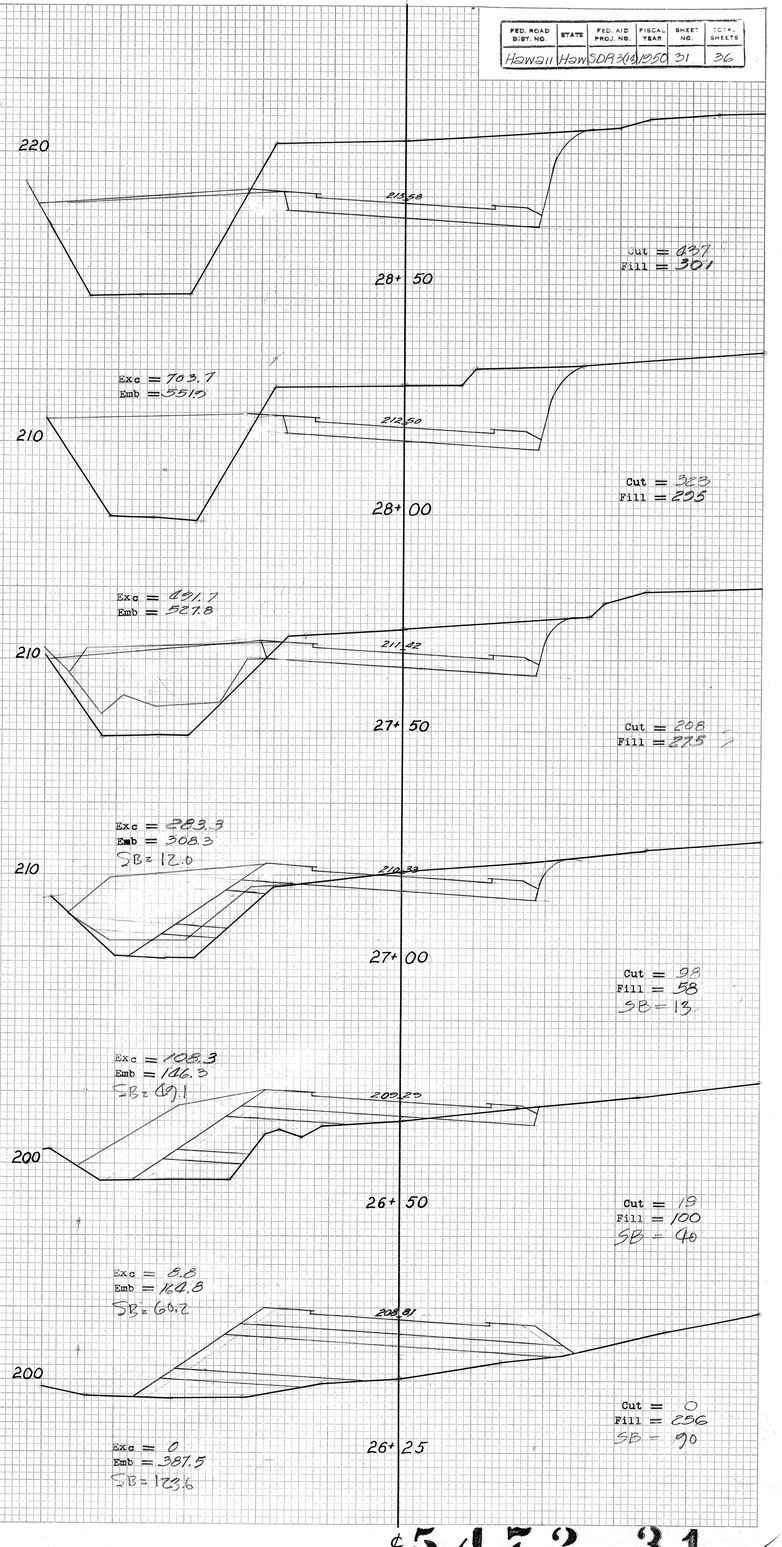


PLATE 3 - CROSS SECTION — K. & E. R. E. STANDARD — KEUFFEL & ESSER CO. NEW YORK

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

℄ 5472.31

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HGWS11	Wash	SDR3(14)	1950	32	36

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

220

219.00

31+ 00

Cut = 435
Fill = 298

Exc = 807.4
Emb = 592.6

220

217.92

30+ 50

Cut = 457
Fill = 306

Exc = 781.5
Emb = 572.2

220

216.84

30+ 00

Cut = 407
Fill = 272

Exc = 836.3
Emb = 525.0

220

216.76

29+ 50

Cut = 451
Fill = 295

Exc = 880.3
Emb = 563.0

220

214.67

29+ 00

Cut = 461
Fill = 313

Exc = 831.5
Emb = 568.5

℄

210

228.85

34+ 00

Cut = 0
Fill = 828
SB = 220

Exc = 7.7
Emb = 425.0
SB = 115.0

220

224.80

33+ 77

Cut = 18
Fill = 172
SB = 48

Exc = 33.0
Emb = 201.0
SB = 24.0

220

223.83

33+ 50

Cut = 88
Fill = 230

Exc = 125.2
Emb = 312.8

220

223.10

33+ 00

Cut = 123
Fill = 326

Exc = 252.8
Emb = 388.0

220

222.13

32+ 50

Cut = 150
Fill = 309

Exc = 300.9
Emb = 553.7

220

221.17

32+ 00

Cut = 175
Fill = 289

Exc = 123.4
Emb = 500.3

220

220.02

31+ 47.14

Cut = 329
Fill = 314

Exc = 666.9
Emb = 530.8

℄

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

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

5472.32

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDRS(16)	1950	33	36

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

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

225.20

200

Exc = 0
Emb = 15770
SB = 4963

34+60

Cut = 0
Fill = 2130
SB = 607

225.67

200

Exc = 0
Emb = 12026
SB = 3722

35+20

Cut = 0
Fill = 1607
SB = 465

225.00

200

Exc = 0
Emb = 16070
SB = 4937

34+40

Cut = 0
Fill = 2110
SB = 571

225.54

200

Exc = 0
Emb = 14778
SB = 4141

35+00

Cut = 0
Fill = 1502
SB = 546

224.79

200

Exc = 0
Emb = 11280
SB = 3085

34+20

Cut = 0
Fill = 2220
SB = 611

225.38

200

Exc = 0
Emb = 15656
SB = 4387

34+80

Cut = 0
Fill = 2088
SB = 578

℄

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

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

5472.33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	SHEET
Hawaii	Haw	SDR3(14)	1950	34	36

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

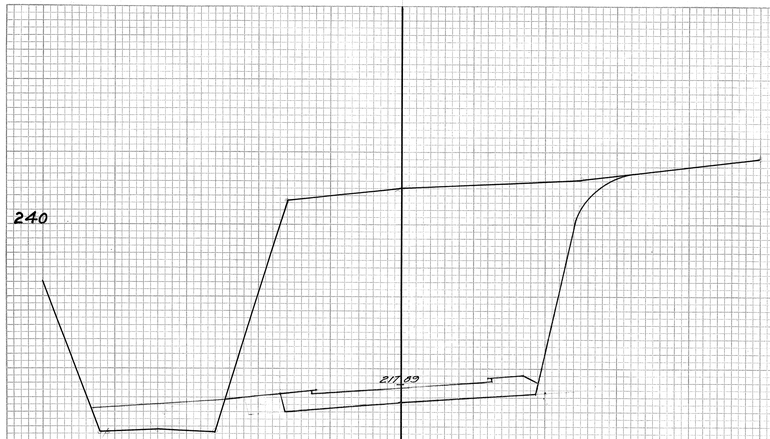
PLATE 3 - CROSS SECTION C.P.R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
K & E CO. No. 345-3 MADE IN U. S. A.

℄ 5472.34

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Hawaii	SDE 3(4)	1950	35	36

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

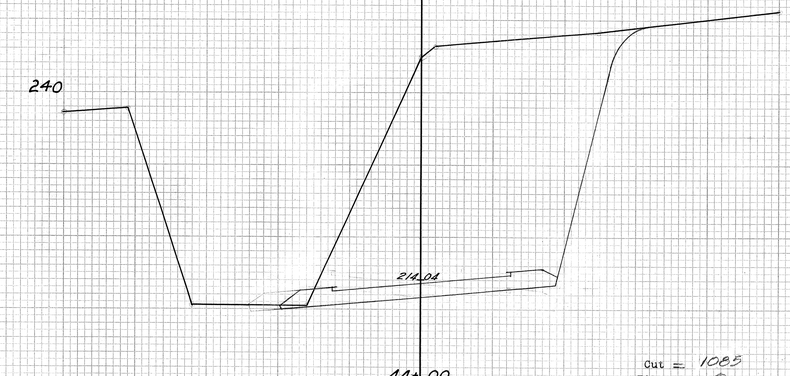
ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE



42+50

Cut = 1168
Fill = 66

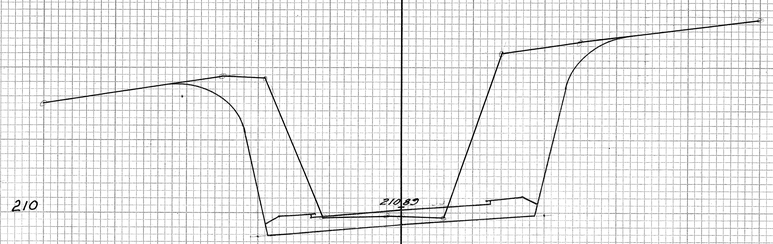
Exc = 2120.7
Emb = 169.4



44+00

Cut = 1085
Fill = 0

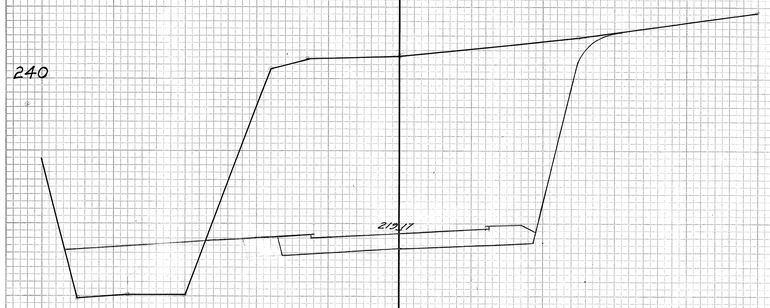
Exc = 2232.4
Emb = 225.9



46+00

Cut = 461
Fill = 0

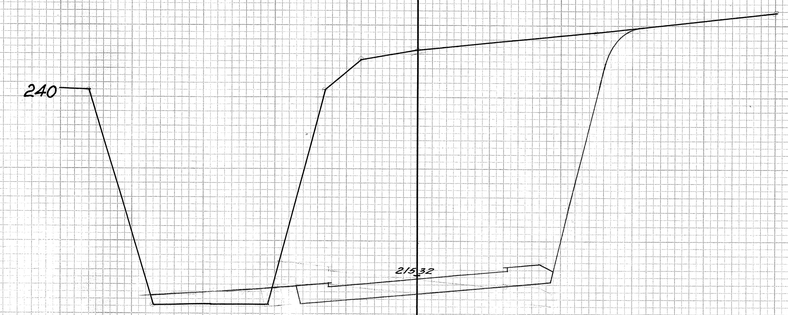
Exc = 303.7
Emb = 0



42+00

Cut = 1128
Fill = 117

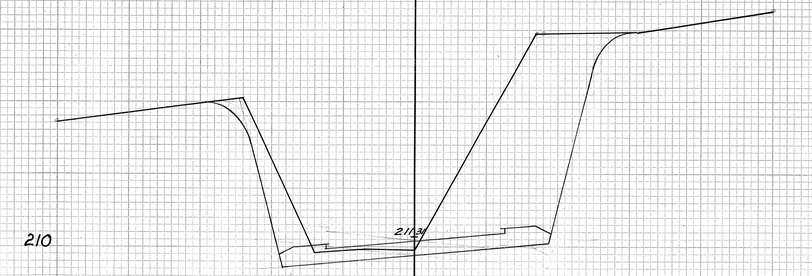
Exc = 1241.1
Emb = 220.4



43+50

Cut = 1326
Fill = 28

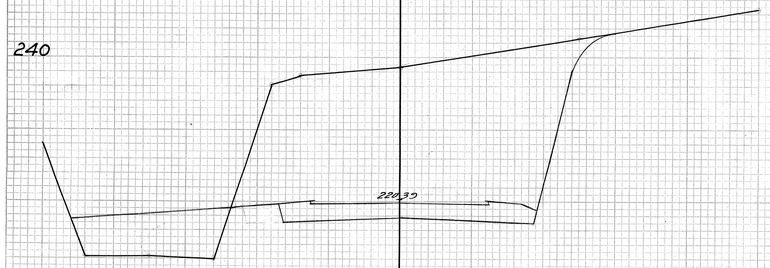
Exc = 2066.7
Emb = 67.6



45+50

Cut = 515
Fill = 0

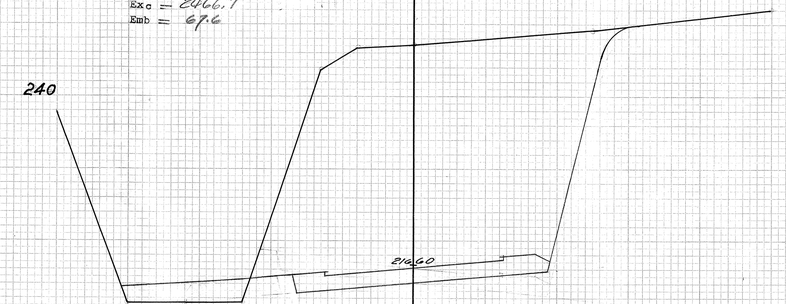
Exc = 2790.7
Emb = 0



41+50

Cut = 520
Fill = 121

Exc = 1860.2
Emb = 272.2



43+00

Cut = 1338
Fill = 45

Exc = 2320.4
Emb = 102.8

44+50

Cut = 992
Fill = 0

Exc = 1213.0
Emb = 0

℄ ℄ ℄

PLATE 3 - CROSS SECTION U. S. B. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

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

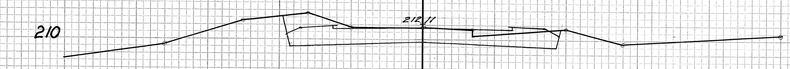
℄ 5472.35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S0E3(18)	1950	36	36

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

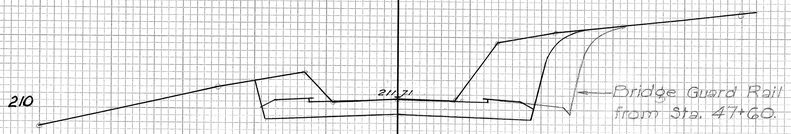
END OF PROJ. STA. 48+27.47



48+ 28 64

Cut = 96
Fill = 0

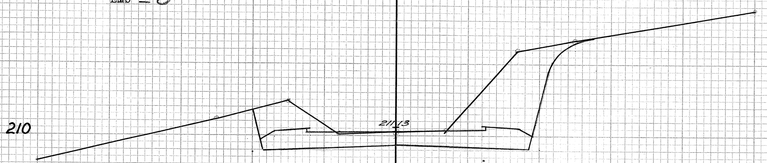
Exc = 158.6
Emb = 0



48+ 00

Cut = 203
Fill = 0

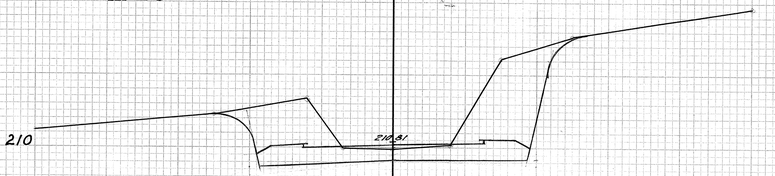
Exc = 385.2
Emb = 0



47+ 50

Cut = 213
Fill = 0

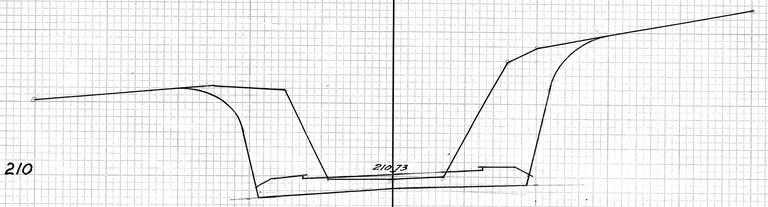
Exc = 446.3
Emb = 0



47+ 00

Cut = 269
Fill = 0

Exc = 572.2
Emb = 0



46+ 50

Cut = 349
Fill = 0

Exc = 750.0
Emb = 0

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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.

5472.36