FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	121	1937	13	20

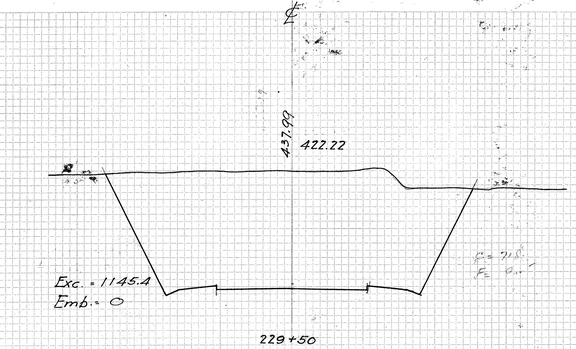
FINAL SURVEY — BY Robert Belt — DATE 7/35

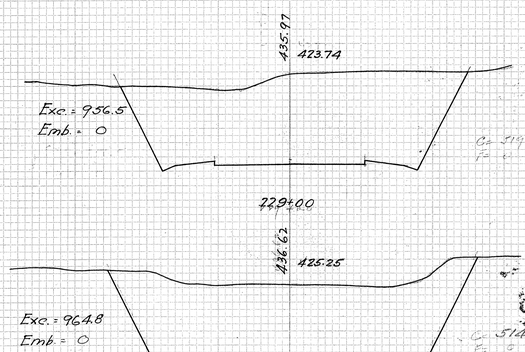
SURVEYED " "
PLOTTED " "
TEMPLATE " "
NOTE BOOK " "
AREAS CHECKED James Reed — Nov. 1936

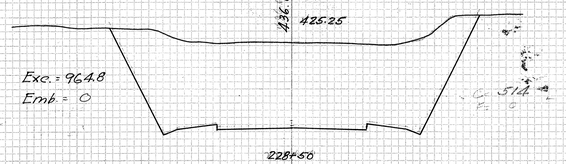
ORIGINAL SURVEY — BY Robert Belt — DATE 1935

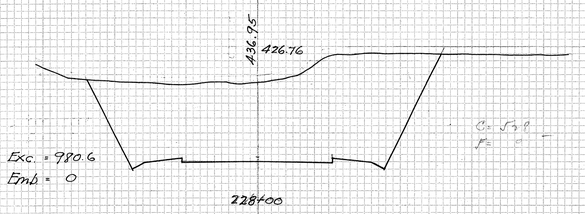
SURVEYED " "
PLOTTED " "
TEMPLATE " "
NOTE BOOK " "
AREAS CHECKED

NO.



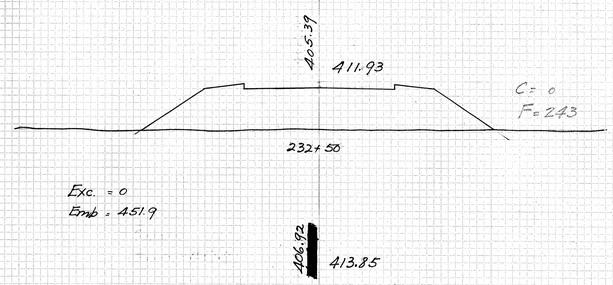


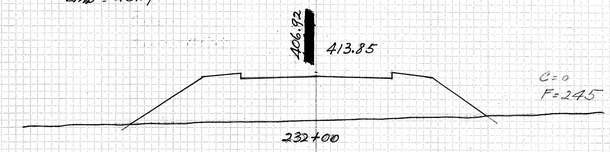


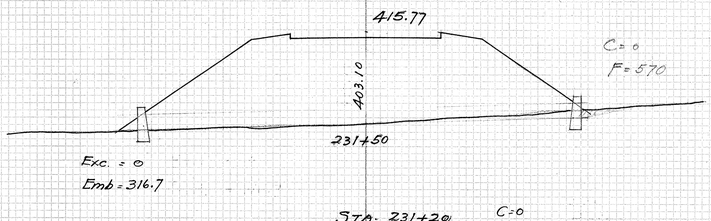


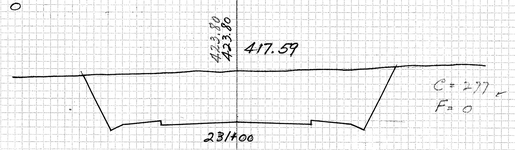














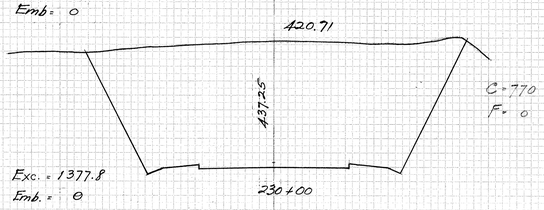


PLATE 3 — CROSS SECTION C. P. R. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

4389.13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	12I	1937	14	20

FINAL SURVEY — SURVEYED / PLOTTED / NOTE BOOK / NO. — TEMPLATE / AREAS / AREAS CHECKED — BY Robert Belt — DATE 1935 / " / " / Nov. 1936 — James Rowe

ORIGINAL SURVEY — SURVEYED / PLOTTED / NOTE BOOK / NO. — TEMPLATE / AREAS / AREAS CHECKED — BY Robert Belt — DATE 1935 / " / " / " — "

404.26
~~406.96~~

394.11

234+50

C = 0
F = ~~130~~ 1085

Exc. = 107.4
~~26.9~~
Emb. = ~~1204.6~~
1004.6

406.16
~~408.41~~

408.71

234+00

C = ~~29~~ 116
F = 0

138.9
Exc. = ~~26.9~~
Emb. = ~~31.5~~
0

408.10
~~409.96~~

408.27

233+50
STA. 233+40

C = 0
F = 0

~~Exc. = 6.3~~
~~Emb. = 0~~

Exc. = 0
Emb. = ~~174.1~~
74.1

410.01
~~411.46~~

410.25

233+00

C = 0
F = ~~134~~ 100

Exc. = 0
Emb. = ~~414.8~~
317.6

391.50
~~402.46~~

391.24

236+00

C = ~~0~~ 1
F = ~~280~~ 100

Exc. = 0.9
~~0~~
Emb. = ~~1895.2~~
1437.0

400.42
~~413.96~~

399.22

235+50

C = 0
F = ~~1356~~ 1452

Exc. = 0
Emb. = ~~3938.9~~
3391.0

402.34
~~405.46~~

401.24

235+00

C = 0
F = ~~2498~~ 2210

Exc. = 0
Emb. = ~~3517.6~~
3051

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

4389.14

2-12-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	121	1937	15	20

FINAL SURVEY		BY	DATE
SURVEYED		Robert Belt	1935
PLOTTED		"	"
TRACED		"	"
AREAS		"	"
AREAS CHECKED		James Ribau	Jan 1936
NOTE BOOK	
NO.	

ORIGINAL SURVEY		BY	DATE
SURVEYED		Robert Belt	1936
PLOTTED		"	"
TRACED		"	"
AREAS		"	"
AREAS CHECKED			
NOTE BOOK	
NO.	

392.76
392.56
238+26
C=0
F=411
Exc. = 0
Emb = 190.8

393.12
393.29
238+00
C=0
F=513.9
Exc. = 0
Emb. = 722.2

394.02
395.52
237+50
C=0
F=417
Exc. = 0.9
Emb = 513.9

395.23
394.94
237+00
C=0
F=1434
Exc. = 47.2
Emb = 141.7

396.72
396.32
236+50
C=50
F=10
Exc. = 47.2
Emb = 101.9

STA. 240+10 C=0 F=0
Exc. = 0
Emb.=16.6

392.36
392.53
240+00
C=0
F=90
Exc. = 0
Emb. = 525.9

392.11
391.63
239+50
C=0
F=478
Exc = 0
Emb = 797.2

392.16
392.42
239+00
C=50
F=383
Exc = 0
Emb = 513.0

392.48
392.42
238+50
C=50
F=171
Exc. = 0
Emb= 99.6

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

4389.15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	12I	1967	16	20

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY Robert Batt — DATE 1935

FINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY Robert Batt — DATE 1935

394.28
242+50
C=756
F=0
Exc. = 1576
Emb. = 0

393.90
242+00
C=946
F=0
Exc. = 1326
Emb. = 0

393.51
241+50
C=1026
F=0
Exc. = 1937
Emb. = 0

393.13
241+00
C=1066
F=0
Exc. = 1727.8
Emb. = 0

392.74
240+50
C=800
F=0
Exc. = 592.6
Emb = 0

STA. 240+10
C=0
F=0

395.82
244+50
C=0
F=164
Exc. = 0
Emb. = 907.4

395.43
244+00
C=0
F=816
Exc. = 0
Emb. = 1309.4

STA. 243+80
30" Circ. Conc. Culv.
92' long

395.05
243+50
C=0
F=597
Exc. = 11.1
Emb. = 632.4

394.66
243+00
C=12
F=86
Exc. = 711.1
Emb. = 79.6

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

4389.16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	12 I	1967	17	20

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Robert Belt	1935
	PLOTTED	"	"
	TEMPLATE	"	"
	AREAS	James Mori	Nov 1936
	AREAS CHECKED		
NOTE BOOK			
NO.			

FINAL SURVEY		BY	DATE
	SURVEYED	Robert Belt	1935
	PLOTTED	"	"
	TEMPLATE	"	"
	AREAS	"	"
	AREAS CHECKED		
NOTE BOOK			
NO.			

397.74
C=3.93
F=0
247+00
Exc. = 365.7
Emb = 0

397.36
C=63
F=0
246+50
Exc. = 127.8
Emb. = 12.0

396.97
C=76
F=15
246+00
Exc. = 114.8
Emb. = 136.1

396.59
C=43
F=13
245+50
Exc. = 55.6
Emb. = 165.7

396.20
C=12
F=15
245+00
Exc. = 11.1
Emb = 193.5

399.16
C=179
F=0
249+50
Exc = 190.7
Emb = 0

STA. 249+25
18" Circ. Conc Culvert
38' long

399.22
C=113
F=0
249+00
Exc. = 650.9
Emb. = 0

398.81
C=390
F=0
248+50
Exc. = 1181.5
Emb = 0

398.51
C=686
F=0
248+00
Exc. = 1181.5
Emb = 0

398.12
C=890
F=0
247+50
Exc. = 854.6
Emb = 0

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

4389.17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	12I	1937	10	20

FINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY Robert Belt, " " , " " — DATE 1935, " " , Nov 1936

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY Robert Belt, " " , " " — DATE 1935, " " , " "

252+00
418.00
395.21
C=1150
F=0
Exc. = 2085.2
Emb = 0

251+50
418.76
396.77
C=1102
F=0
Exc. = 1929.6
Emb = 0

251+00
418.11
397.90
C=987
F=0
Exc. = 1642.6
Emb = 0

250+50
415.39
398.70
C=734
F=0
Exc. = 1140.7
Emb = 0

250+00
402.33
399.16
C=410
F=0
Exc. = 168.78
Emb = 0

EQUATION -27.16'
249+82.90 =
249+55.74

Exc. = 56.65
Emb. = 0

254+00
418.28
386.00
C=1616
F=0
Exc. = 2904
Emb = 0

253+50
417.28
388.83
C=1520
F=0
Exc. = 2722
Emb = 0

253+00
418.54
391.32
C=1440
F=0
Exc. = 2539
Emb = 0

252+50
418.92
393.48
C=1274
F=0
Exc. = 2288.8
Emb = 0

256+50
419.39
371.00
C=10
F=49
Exc. = 718.5
Emb. = 45.3

256+00
418.32
374.00
C=766
F=0
Exc. = 2179.7
Emb = 0

255+50
418.08
377.00
C=1588
F=0
Exc. = 3081.5
Emb = 0

255+00
416.98
380.00
C=1740
F=0
Exc. = 3212.0
Emb = 0

254+50
415.19
383.00
C=1729
F=0
Exc. = 3097.3
Emb = 0

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

4389.18

6 12-I

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	12I	1937	19	20

FINAL SURVEY — SURVEYED BY Robert Bolt, DATE 1935; PLOTTED BY " DATE " ; PLANIMETER " DATE " ; AREAS " DATE " ; AREAS CHECKED James Rowe Nov 1936; NOTE BOOK ; NO.

ORIGINAL SURVEY — SURVEYED BY Robert Bolt, DATE 1935; PLOTTED BY " DATE " ; PLANIMETER " DATE " ; AREAS " DATE " ; AREAS CHECKED ; NOTE BOOK ; NO.

℄

359.67

C = 0
F = 3097

Exc = 0
Emb = 4187.0

330.33

258+50

362.17

C = 0
F = 1465

Exc = 0
Emb = ~~3487.5~~ 3333.0

341.97

258+00

365.00

C = 0
F = ~~2302~~ 2135

Exc = 0
Emb = ~~3285.2~~ 3046.0

341.06

257+50

368.00

C = 0
F = ~~1246~~ 1155

Exc = ~~9.5~~ 9.3
Emb = ~~1199.1~~ 1114.8

353.20

257+00

℄

℄

359.00

C = 0
F = 1321

Exc = 0
Emb = ~~30322~~ 1341.6

335.13

260+50

Beginning of Bridge #8
~~Sta 260+59.24~~
Sta. 260+26.21

354.17

C = 0
F = 1443

Exc = 0
Emb = 3279.7

335.10

260+00

355.67

C = 0
F = 2099

Exc = 0
Emb = 4619.4

335.02

259+50

357.60

C = 0
F = 2890

Exc = 0
Emb = 5506.5

315.91

259+00

℄

PLATE 1—CROSS SECTION C. P. W. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4389.19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	12I	1937	20	20

FINAL SURVEY	BY	DATE
SURVEYED	Robert Batt	1935
PLOTTED	"	"
TEMPLATE	"	"
PROFILE	James Keane	Nov 1936
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED	Robert Batt	1935
PLOTTED	"	"
TEMPLATE	"	"
PROFILE	"	"
NOTE BOOK		
AREAS CHECKED		
NO.		

℄

351.20

351.64

264+50

C = 56
F = 0

Exc = 58.4
Emb = 44.5

350.05

341.97

264+00

C = 7
F = 48

Exc = 9.3
Emb = 169.3

348.80

344.58

263+50

C = 3
F = 135

Exc = 2.8
Emb = ~~491.8~~ 50.0

348.45

340.41

263+00

C = 0
F = ~~396~~ 405

Exc = 0
Emb = ~~924.7~~ 709.4

24.72

END OF BRIDGE #8
STA. 262+73.21

349.00

336.81

262+63

C = 0
F = ~~937~~ 1025

End of Bridge #8
Sta 262+62.5

℄

369.80

372.50

267+50

C = 127
F = 0

Exc = 243.5
Emb = 0

366.40

369.75

267+00

C = 136
F = 0

Exc = 266.7
Emb = 0

363.00

366.96

266+50

C = 152
F = 0

Exc = 262.0
Emb = 0

359.60

362.07

266+00

C = 131
F = 0

Exc = 245.4
Emb = 0

356.20

359.28

265+50

C = 134
F = 0

Exc = 242.6
Emb = 0

353.25

355.45

265+00

C = 128
F = 0

Exc = 170.4
Emb = 0

℄

℄

269+00

C = 112
F = 0

Exc = 196.3
Emb = 0

376.60

378.88

268+50

C = 100
F = 0

Exc = 198.2
Emb = 0

373.20

375.36

268+00

C = 114
F = 0

Exc = 223.1
Emb = 0

4389.20