FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S239(1)	1954	18	19

Note: Cross hatched sections show area used for wasting ash

33.70	2	+50	Exc.	566.7	Cut 603
			Emb.	1.4	Fill 2
32.61	2	+25	Exc.	571.3	Cut 615
			Emb.	0.5	Fill 1
31.45	2	+00	Exc.	805.1	Cut 612
			Emb.	0	Fill 0
29.77	1	+63	Exc.	261.5	Cut 556
			Emb.	0	Fill 0
29.19	1	+50	Exc.	931.5	Cut 530
			Emb.	1.9	Fill 0
27.00	1	+00	Exc.	641.7	Cut 476
			Emb.	12.0	Fill 2
24.85	0	+50	Exc.	399.1 ~~315.7~~	Cut 217
			Emb.	17.6	Fill 11
22.70	0	+00	Exc.	~~118.9~~ 124	Cut ~~214~~
			Emb.	~~4.4~~ 0	Fill 8
21.41	-0	+30			

49.34	5	+50	Exc.	5.6	Cut 6
			Emb.	239.8	Fill 31
46.60	5	+00	Exc.	5.6	Cut 0
			Emb.	306.5	Fill ~~228~~
43.88	4	+50	Exc.	~~102.3~~ 58.3	Cut 6
			Emb.	49.5	Fill 103
42.33	4	+25	Exc.	~~240.3~~ 168.1	Cut ~~215~~ ~~120~~
			Emb.	1.9	Fill 4
41.25	4	+00	Exc.	~~528.6~~ 548.7	Cut 304 343
			Emb.	0	Fill 0
39.60	3	+68	Exc.	~~182.7~~ ~~183.4~~	Cut ~~585~~ 583
			Emb.	0	Fill 0
38.19	3	+60	Exc.	~~249.1~~ 246.1	Cut 650
			Emb.	0	Fill 0
36.69	3	+50	Exc.	~~1237.9~~ 1217.6	Cut 679 ~~695~~
			Emb.	0	Fill 0
36.20	3	+00	Exc.	~~1153.3~~ 1152.8	Cut ~~642~~ 636
			Emb.	1.9	Fill 0

Side road

Side road

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

5729.12

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	RF037(1)	1984	13	19

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

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

1971.58 68.59 9 +00 — Exc. 175.0 Emb. 0 — Cut 233 Fill 0

1970 1969.66 67.32 8 +77 — Exc. 174.0 Emb. 2.5 — Cut 180 Fill 0

1970 1967.04 65.84 8 +50 — Exc. 188.2 Emb. 53.7 — Cut 165 Fill 160

1961.47 63.09 8 +00 — Exc. 42.6 40.7 Emb. 188.0 — Cut 44 Fill 53

1956.26 60.34 7 +50 — Exc. 0 Emb. 348.2 — Cut 0 Fill 151

1952.09 57.55 7 +00 — Exc. 0 Emb. 308.3 — Cut 0 Fill 225

1951.79 54.84 6 +50 — Exc. 30.6 Emb. 103.7 — Cut 0 Fill 108

1951.16 52.05 6 +00 — Exc. 36.1 Emb. 32.4 — Cut 33 Fill 4

1960.85 90.07 12 +00.80 — Exc. 385.3 382.6 Emb. 0 — Cut 606 Fill 0

1965.02 89.03 12 +73 — Exc. 466.4 463.0 Emb. 0 — Cut 457 540 Fill 0

1958.71 87.83 12 +50 — Exc. 350.3 Emb. 0 — Cut 538 Fill 0

1952.25 85.08 12 +00 — Exc. 315.7 Emb. 0 — Cut 498 Fill 0

1950.44 82.33 11 +50 — Exc. 893.5 Emb. 0 — Cut 491 Fill 0

1946.63 79.58 11 +00 — Exc. 775.0 Emb. 0 — Cut 474 Fill 0

1941.98 76.83 10 +50 — Exc. 576.9 Emb. 0 — Cut 363 Fill 0

1937.75 74.08 10 +00 — Exc. 463.0 Emb 0 — Cut 260 Fill 0

1934.16 71.33 9 +50 — Exc. 438.0 Emb. 0 — Cut 240 Fill 0

1429.04 12.57 17 +00 — Exc. 0 Emb. 287.0 — Cut 0 Fill 155

1425.18 09.82 16 +50 — Exc. 0 Emb. 219.4 — Cut 0 Fill 155

1424.49 07.07 16 +00 — Exc. 60.2 Emb. 83.3 — Cut 0 Fill 82

1424.19 04.32 15 +50 — Exc. 310.2 Emb. 7.4 — Cut 65 Fill 8

1424.58 01.57 15 +00 — Exc. 660.2 Emb. 0 — Cut 270 Fill 0

1425.87 98.82 14 +50 — Exc. 345.4 Emb. 0 — Cut 443 Fill 0

1428.69 96.07 14 +00 — Exc. 1110.2 Emb. 0 — Cut 578 Fill 0

1433.80 93.32 13 +50 — Exc. 1150.9 Emb. 0 — Cut 621 Fill 0

1438.87 90.58 13 +00 — Exc. 207.2 Emb. 0 — Cut 622 Fill 0

5725.13

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S238(1)	1956	14	19

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

40.66
1454.76
21 +50
Exc. 0
Emb. 300.9
Cut 0
Fill 120

37.24
1451.78
21 +00
Exc. 0
Emb. 325.9
Cut 0
Fill 205

33.87
1448.85
20 +50
Exc. 0
Emb. 206.5
Cut 0
Fill 147

30.57
1447.05
20 +00
Exc. 13.0
Emb. 93.5
Cut 0
Fill 76

27.36
1440.00
19 +50
Exc. 89.8
Emb. 26.9
Cut 14
Fill 25

24.23
1435.32
19 +00
Exc. 125.0
Emb. 7.4
Cut 83
Fill 4

21.10
1431.80
18 +50
Exc. 67.6
Emb. 22.2
Cut 52
Fill 4

18.23
1427.05
18 +00
Exc. 25.9
Emb. 70.4
Cut 21
Fill 20

15.35
1423.45
17 +50
Exc. 6.5
Emb. 105.4
Cut 7
Fill 56

65.69
1458.10
25 +10
Exc. 0
Emb. 245.9
Cut 0
Fill 375

64.60
1456.84
25 +00
Exc. 0
Emb. 925.9
Cut 0
Fill 455

61.18
1450.00
24 +50
Exc. 0
Emb. 1263.9
Cut 0
Fill 545

57.76
1444.98
24 +00
Exc. 0
Emb. 1728.7
Cut 0
Fill 820

54.34
1439.78
23 +50
Exc. 0
Emb. 2206.5
Cut 0
Fill 1047

50.92
1439.40
23 +00
Exc. 0
Emb. 2506.4
Cut 0
Fill 1336

47.50
1436.45
22 +50
Exc. 0
Emb. 1775.9
Cut 0
Fill 1371

44.08
1434.19
22 +00
Exc. 0
Emb. 617.6
Cut 0
Fill 547

1470.75
EP
29+00
Exc. 0
Emb. 0
Cut 0
Fill 0

88.54
1488.59
28+50
Exc. 13.9 (16.7)
Emb. 3.7
Cut 0
Fill 0

85.12
1485.10
28 +00
Exc. 76.9 (306)
Emb. 3.7
Cut 15 (17)
Fill 4

81.70
1483.26
27 +50
Exc. 79.6 (81.5)
Emb. 40.7
Cut 68 (70)
Fill 0

78.28
1479.98
27 +00 (APPROACH)
Exc. 16.7
Emb. 110.2
Cut 18
Fill 44

74.86
1478.04
26 +50
Exc. 0
Emb. 151.9
Cut 0
Fill 75

71.44
1468.87
26 +00
Exc. 0
Emb. 313.0
Cut 0
Fill 80

68.02
1461.88
25 +50
Exc. 0
Emb. 392.5
Cut 0
Fill 240

SIDE ROAD

5728.14

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S239(11)	1984	15	19

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

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

Note: Cross-hatched area - slope flattening down under force account authorized by extra work order No. 3

Note: Sta. 532+00 to 536+50 re-cross-sectioned before construction started

535 +50 — 49.52 — 3420.8
Exc. 0
Emb. 522.2
Cut 0
Fill 464

535 +00 — 49.48 — 3420.0 — Driveway
Exc. 44.4 ~~54.6~~
Emb. 103.7
Cut 0
Fill 100

534 +50 — 49.36 — 3419.5
Exc. 64.8 ~~58.3~~ 58
Emb. 20.4
Cut 48
Fill 12

534 +00 — 49.15 — 3419.0
Exc. 44.4 ~~34.3~~ 5
Emb. 14.8
Cut 22
Fill 10

533 +50 — 48.90 — 3418.8
Exc. ~~14.0~~ ~~67.6~~ 32
Emb. 9.3
Cut 26
Fill 6

533 +37.37 — 48.84 — 3418.8
Exc. ~~38.8~~ ~~69.4~~ 28
Emb. 9.3
Cut 47
Fill 4

533 +00 — 48.00 — 3418.0
Exc. 25.9
Emb. 5.6
Cut 28
Fill 6

532 +50 — 46.2 — 3416.0
Cut 00
Fill

538 +00 — 48.45 — 3418.05
Exc. 0
Emb. 613.0
Cut 0
Fill 197

537 +50 — 48.83 — 3420.05
Exc. 0
Emb. 1229.7
Cut 0
Fill 465

537 +00 — 49.13 — 3419.30
Exc. 0
Emb. 1125.6
Cut 0
Fill 863

536 +70 — 49.27 — 3419.05
Exc. 0
Emb. 971.1
Cut 0
Fill 1163

536 +50 — 49.34 — 3417.58
Exc. 0
Emb. 1221.5
Cut 0
Fill 1459

536 +30 — 49.41 — 3418.46 — 3417.7
Exc. 0
Emb. 1614.5
Cut 0
Fill 1839

536 +00 — 49.47 — 3415.0
Exc. 0
Emb. 1417.6
Cut 0
Fill 1067

541 +10 — 44.18 — 3435.24 — Headwall
Exc. 0
Emb. 55.7
Cut 0
Fill 468

541 +00 — 44.37 — 3436.65
Exc. 77.8
Emb. 351.9
Cut 0
Fill 373

540 +50 — 45.26 — 3436.15 — 238.2
Exc. 235.2
Emb. 65
Cut 84
Fill 7

540 +00 — 46.07 — 3440.57 — 263.0
Exc. 259.3
Emb. 0
Cut 174 170
Fill 0

539 +50 — 46.79 — 3442.85
Exc. 101.9
Emb. 84.3
Cut 110
Fill 0

539 +00 — 47.42 — 3444.52
Exc. 0
Emb. 127.8
Cut 0
Fill 91

538 +75 — 47.72 — 3445.30
Exc. ~~4.6~~ 1.4
Emb. 117.1
Cut 0
Fill 185

538 +50 — 47.98 — 3445.91
Exc. 2.8
Emb. 245.4
Cut 3
Fill 68

57 23 S .15

Note Cross hatched area - Slope flattening done under force account authorized by Extra Work Order No. 3

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S839(1)	1964	16	17

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

Exc. 1316.6
Emb.
Cut 637
Fill 0
3424.11 34.20 545 +00

Exc. 1535.2
Emb. 0
Cut 785
Fill 0
3423.02 35.77 544 +50

Exc. 1502.2
Emb 0
Cut 873
Fill 0
3425.05 37.25 544 +00

Exc. 1183.3
Emb. 0
Cut 757
Fill 0
3425.05 38.65 543 +50

Exc. 875.0
Emb. 0
Cut 521
Fill 0
3451.95 39.96 543 +00

Exc. 703.7
Emb. 0
Cut 424
Fill 0
3450.97 41.19 542 +50

Exc. 406.5 403.7
Emb. 0
Cut 336
Fill 0
3449.43 42.33 542 +00

Exc. 76.3 74.1
Emb. 346.7
Cut 103 100
Fill 0
3450.05 43.39 541 +50

Exc. 171.3
Emb. 412.0
Cut 185
Fill 0
3447.28 23.03 548 +00

Exc. 0
Emb. 860.2
Cut 0
Fill 445
3410.85 25.10 547 +50

Exc. 0
Emb. 1165.7
Cut 0
Fill 1413
3407.80 26.11 547 +25

Exc. 0
Emb. 1180.6
Cut 0
Fill 1105
3405.98 27.09 547 +00

Exc. 196.3
Emb. 157.4
Cut 0
Fill 170
3404.77 28.99 546 +50

Exc. 596.3
Emb. 0
Cut 212
Fill 0
3405.27 30.81 546 +00

Exc. 989.8
Emb. 0
Cut 432
Fill 0
3402.86 32.55 545 +50

Exc. 562.2
Emb. 0
Cut 1173
Fill 0
3423.30 15.59 549 +65 Detour E.P. E.P.

Exc. 764.1
Emb. 0
Cut 851
Fill 0
3420.48 16.30 549 +50 Detour E.P. E.P.

Exc. 300.8
Emb. 0
Cut 943
Fill 0
3397.27 17.38 549 +27 Detour E.P. E.P.

Exc. 538.7
Emb. 0
Cut 862
Fill 0
3398.54 17.80 549 +18 E.P. E.P.

Exc. 587.7
Emb. 0
Cut 754
Fill 0
3434.56 18.62 549 +00 E.P. E.P.

Exc. 494.6
Emb. 0
Cut 618
Fill 0
3435.00 19.67 548 +76.87 E.P. E.P.

Exc. 519.4
Emb. 0
Cut 376
Fill 0
3427.05 20.87 548 +50 E.P. E.P. Detour

5728.16

NOTE: Cross-Patch-Area-Slope Flattening done under force account authorized by Extra Work Order No 3.

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S2391(1)	1964	17	19

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

3429.60 07.02 551 +33.77 E.P. E.P.
Exc. 1455.9
Emb. 0
Cut = 1134
Fill = 0

3429.27 08.81 551 +00 E.P. E.P.
Exc. 2251.8
Emb 0
Cut = 1194
Fill = 0

3428.79 11.39 550 +50 E.P. E.P.
Exc. 1347.8
Emb 0
Cut = 1238
Fill = 0

3428.88 12.90 550 +20 E.P.
Exc. 930.0
Emb. 0
Cut = 1188
Fill = 0

3428.95 13.89 550 +00 E.P.
Detour
Exc. 1617.8
Emb. 0
Cut = 1323
Fill = 0

3430.67 91.55 554 +00 E.P. E.P.
Exc. 434.3
Emb. 0
Cut = 250
Fill = 0

3430.18 94.64 553 +50 E.P. E.P.
Exc. ~~376.9~~ 305.4
Emb. 63.9
Cut = 219
Fill = 0

3430.68 97.64 553 +00 E.P. E.P.
Daylight
Exc. ~~393.5~~ 520.4
Emb. 63.9
Cut = ~~188~~ 202
Fill = 69

3430.86 00.56 552 +50 E.P. E.P.
Daylight
Exc. ~~311.6~~ 400.8
Emb. 0
Cut = ~~287~~ 354
Fill = 0

3430.28 02.16 552 +22 E.P. E.P.
Daylight
Exc. ~~369.5~~ 391.9
Emb. 0
Cut = ~~364~~ 419
Fill = 0

3431.52 03.39 552 +00 E.P. E.P.
Detour
Exc. 262.8
Emb. 0
Cut = 543
Fill = 0

3431.29 04.23 551 +85 E.P. E.P.
Detour
Exc. 593.7
Emb. 0
Cut = 403
Fill = 0

3431.80 06.14 551 +50 E.P. E.P.
Exc. 495.0
Emb 0
Cut = 513
Fill = 0

3432.07 69.64 557 +50 E.P. E.P.
Exc. 898.2
Emb. 0
Cut = 532
Fill = 0

3432.02 72.77 557 +00 E.P. E.P.
Exc. 800.0
Emb. 0
Cut = 438
Fill = 0

3431.70 75.90 556 +50 E.P. E.P.
Exc. 716.7
Emb. 0
Cut = 426
Fill = 0

3431.12 79.03 556 +00 E.P. E.P.
Exc. 683.3
Emb. 0
Cut = 348
Fill = 0

3430.64 82.16 555 +50 E.P. E.P.
Exc. 621.3
Emb. 0
Cut = 390
Fill = 0

3430.28 85.29 555 +00 E.P. E.P.
Exc. 524.1
Emb. 0
Cut = 281
Fill = 0

3430.07 88.42 554 +50 E.P. E.P.
Exc. 495.4
Emb. 0
Cut = 285
Fill = 0

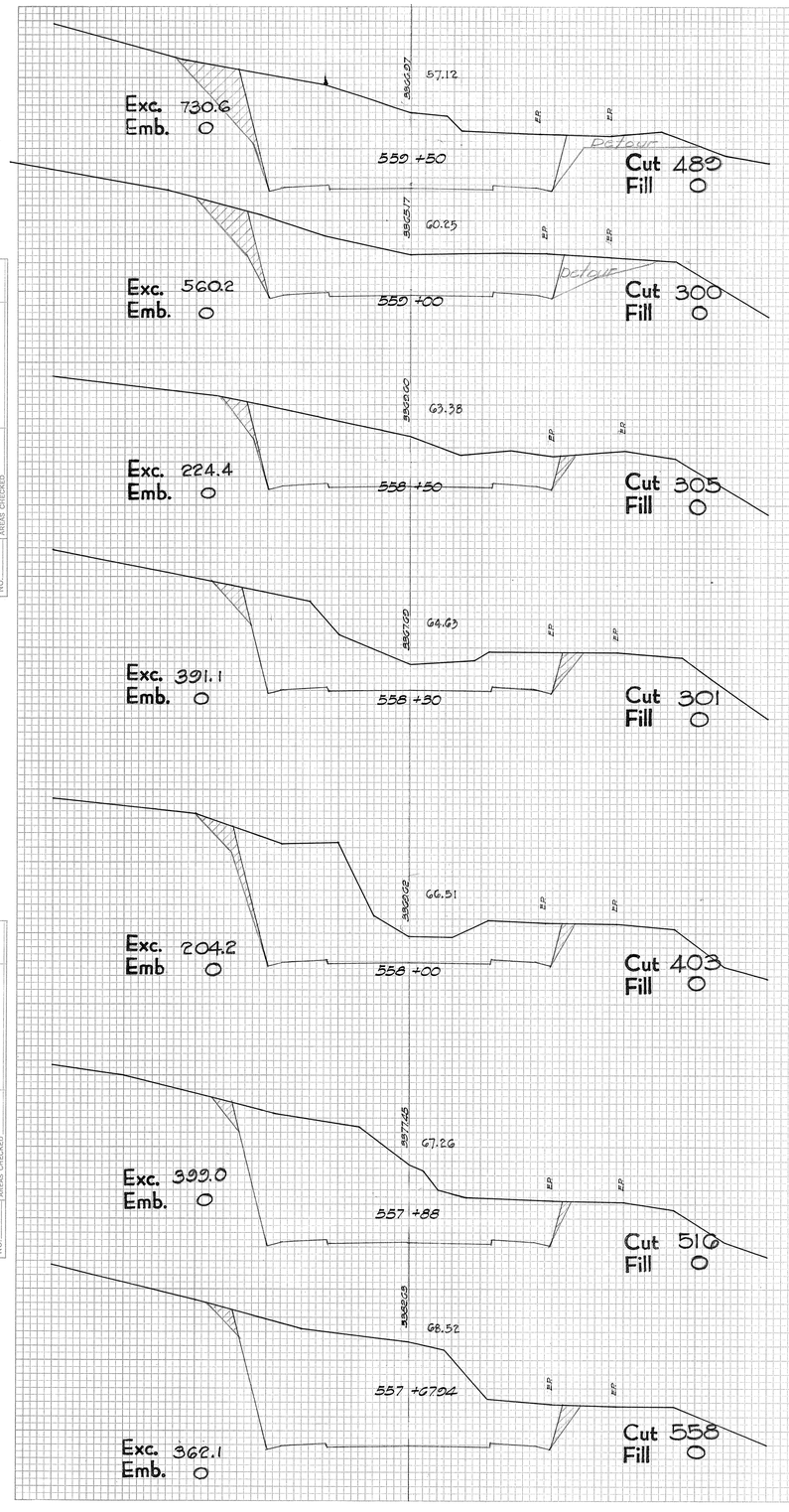
57 28.17

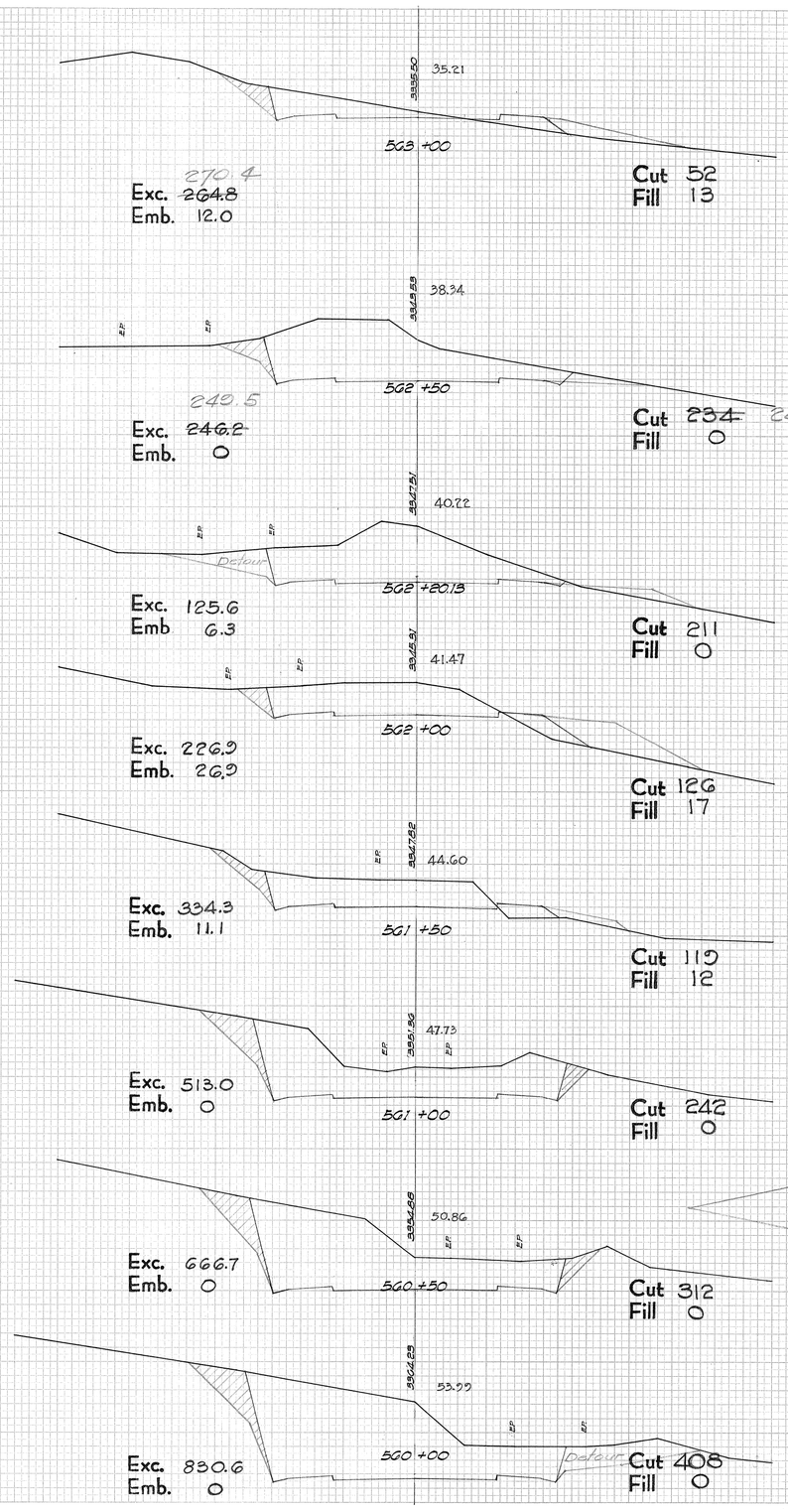
NOTE: Cross-hatched area - Slope flattening done under Force Account authorized by Extra Work Order No 3

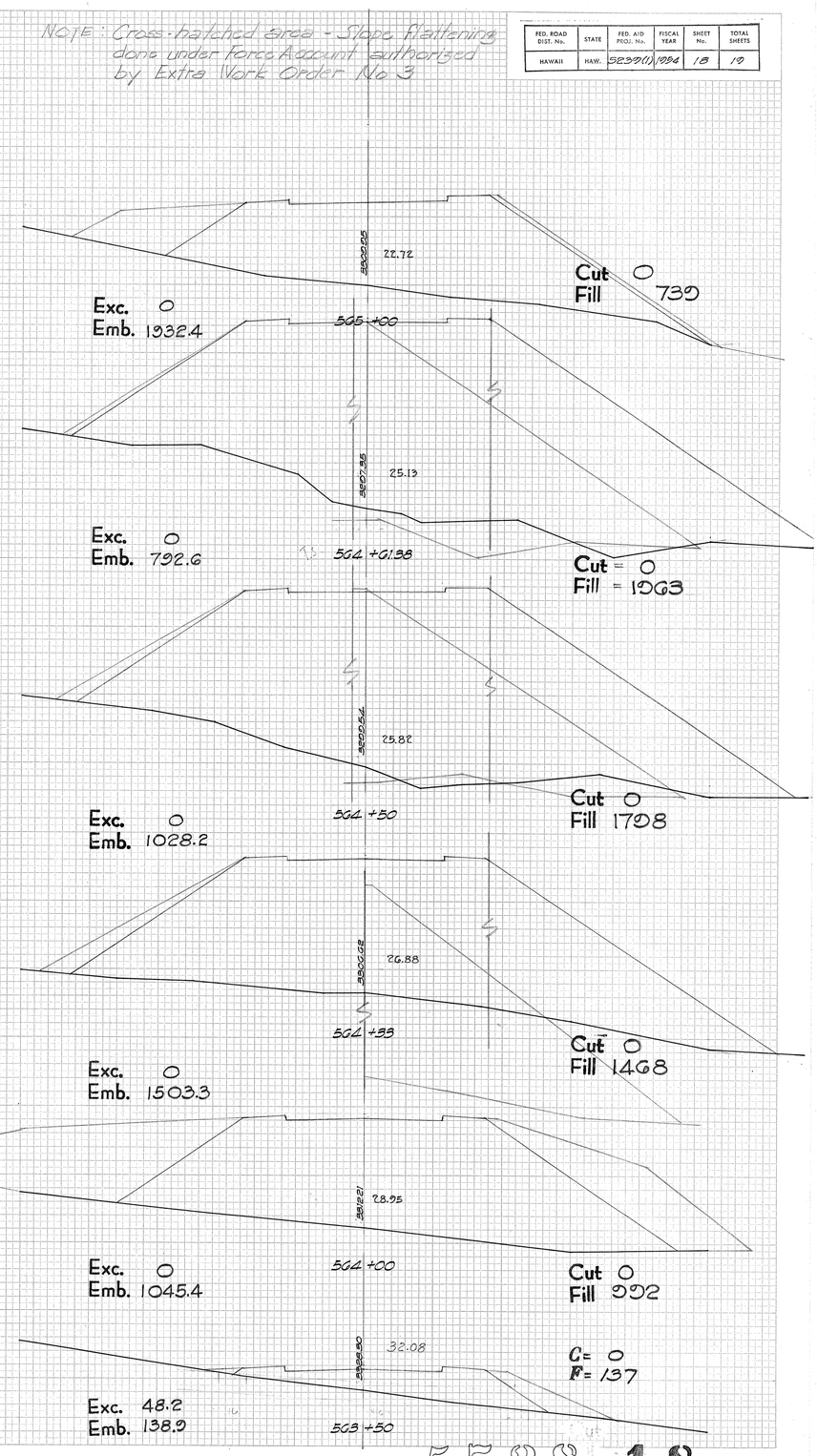
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S2390(1)	1994	18	19

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

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





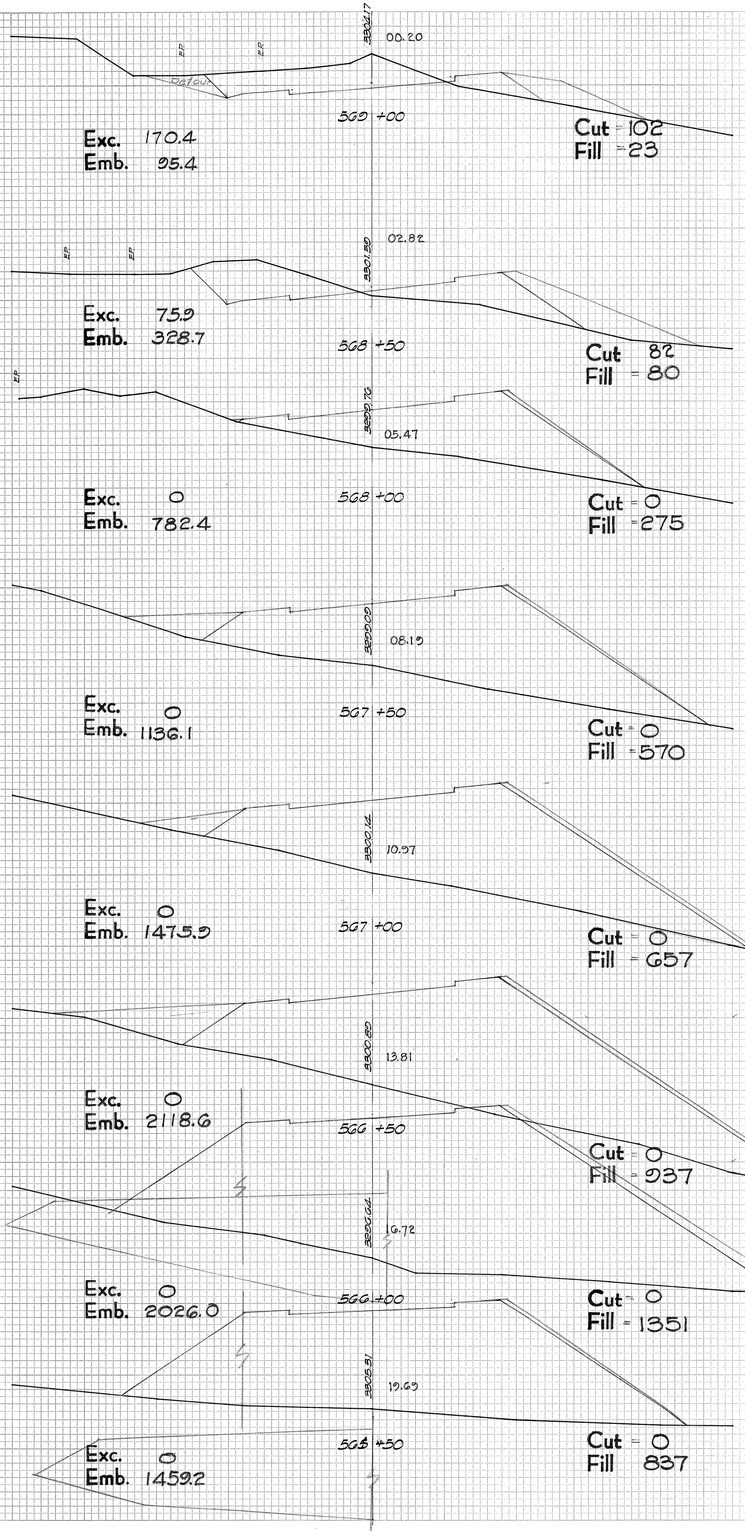


5728.18

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S839(1)	1984	19	19

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

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



5728.19