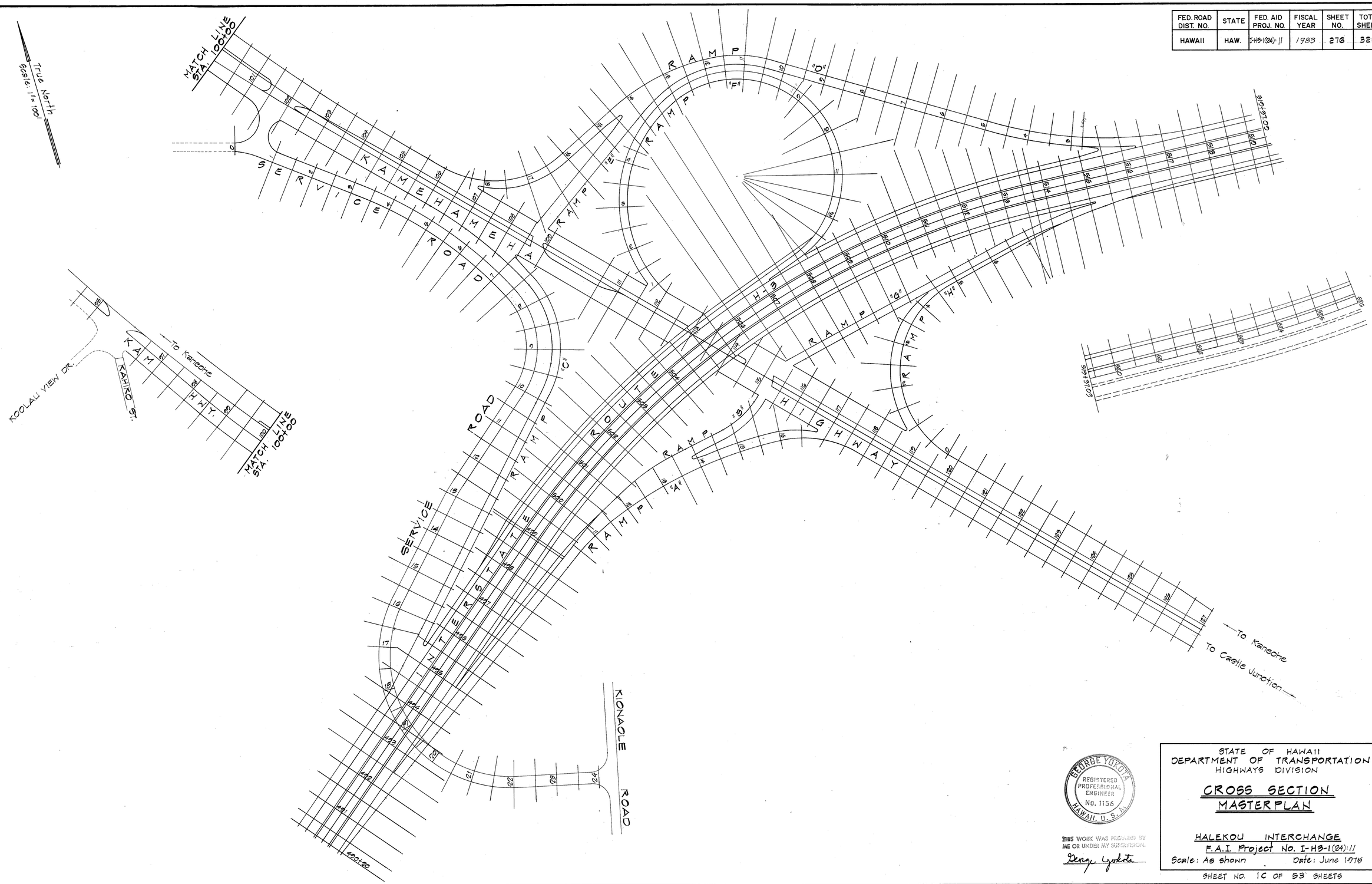
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	276	328



GEORGE YOKOTA
REGISTERED PROFESSIONAL ENGINEER
No. 1156
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
George Yokota

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTION MASTER PLAN

HALEKOU INTERCHANGE
F.A.I. Project No. I-HB-1(24):11
Scale: As shown Date: June 1976

SHEET NO. 1C OF 53 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HS-1(24):11	1983	277	328

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

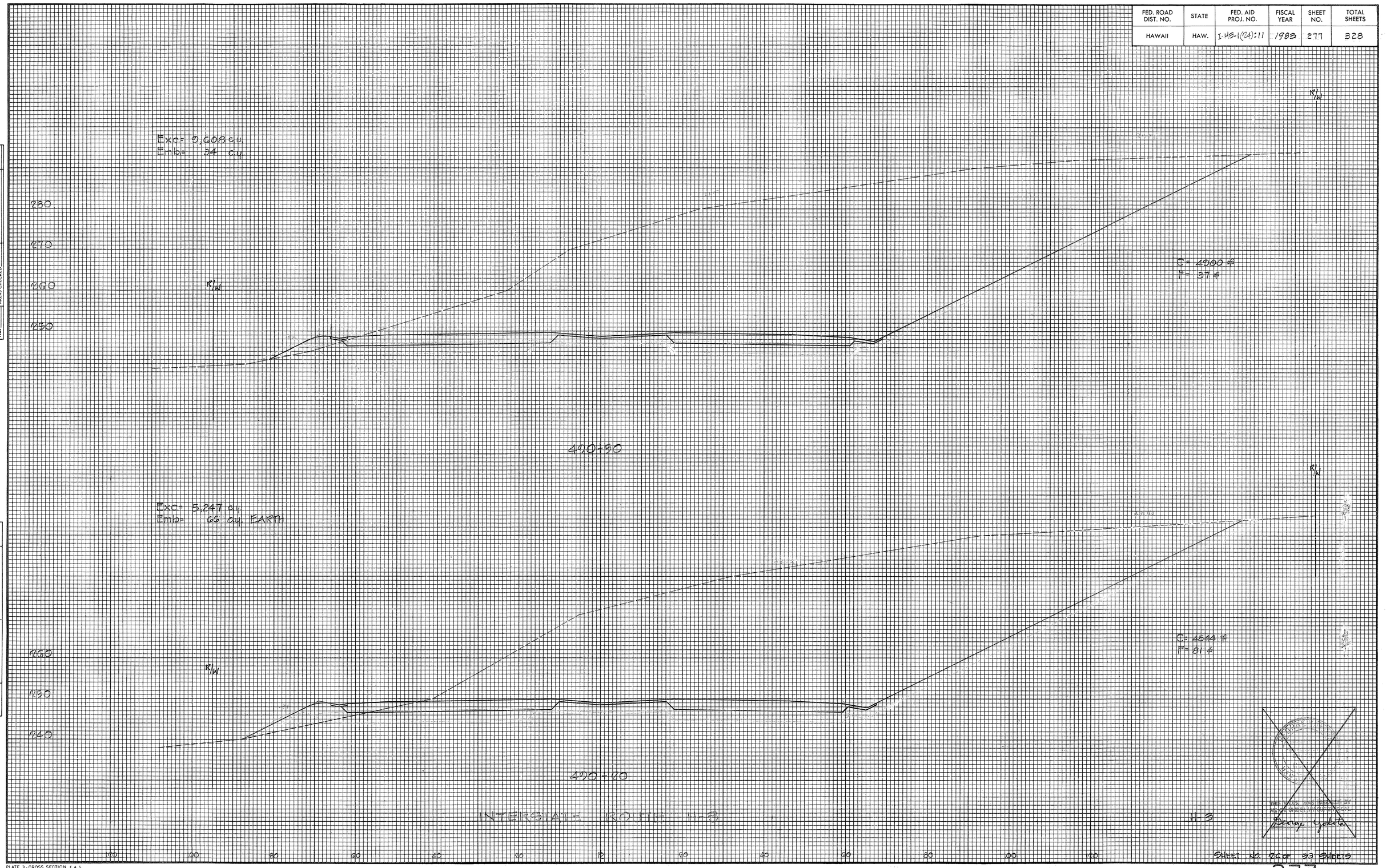


PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F., CAL. NO. 1000H-3

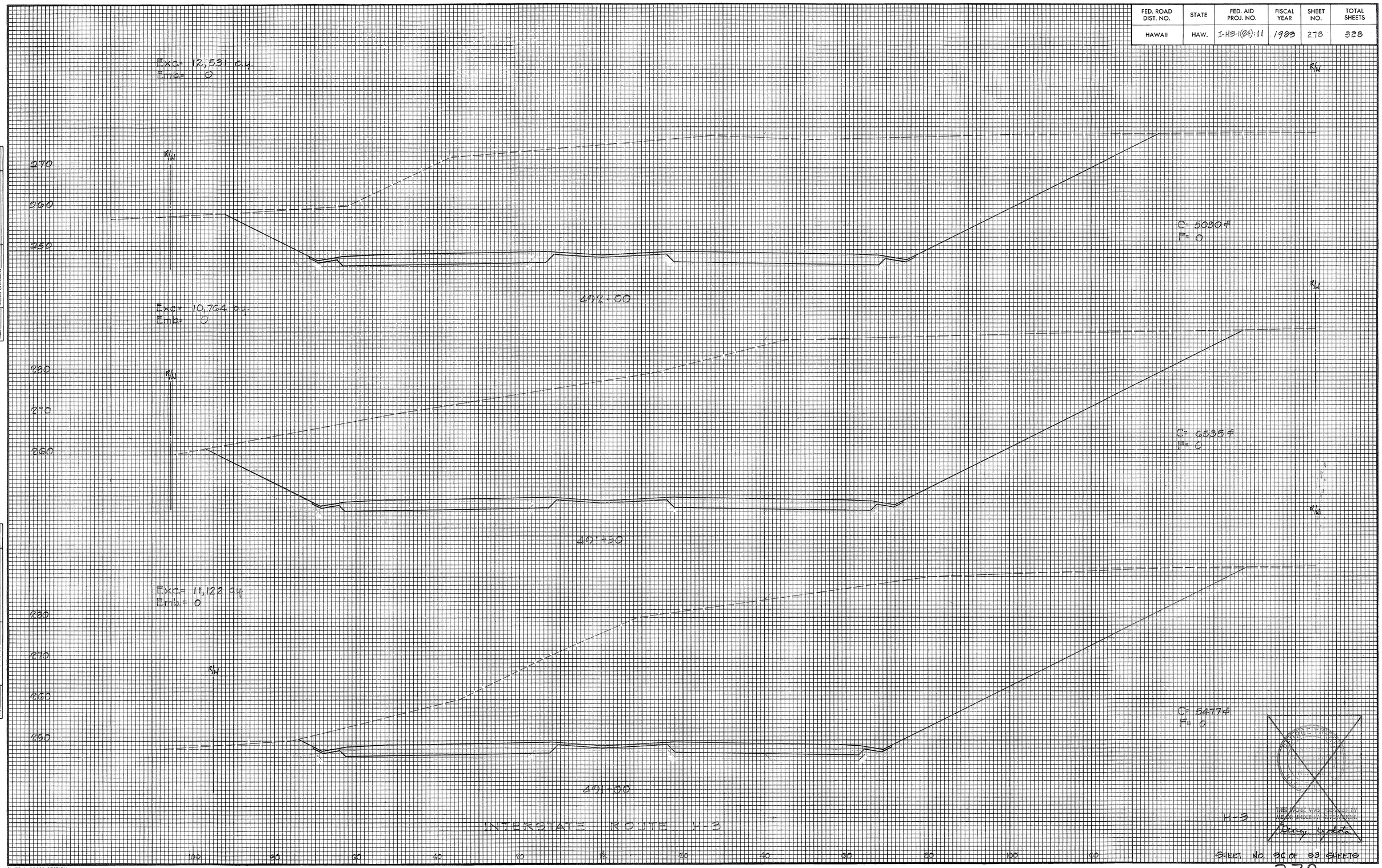
SHEET NO. 126 OF 328 SHEETS

277

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	278	328

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



SHEET NO. 30 OF 33 SHEETS

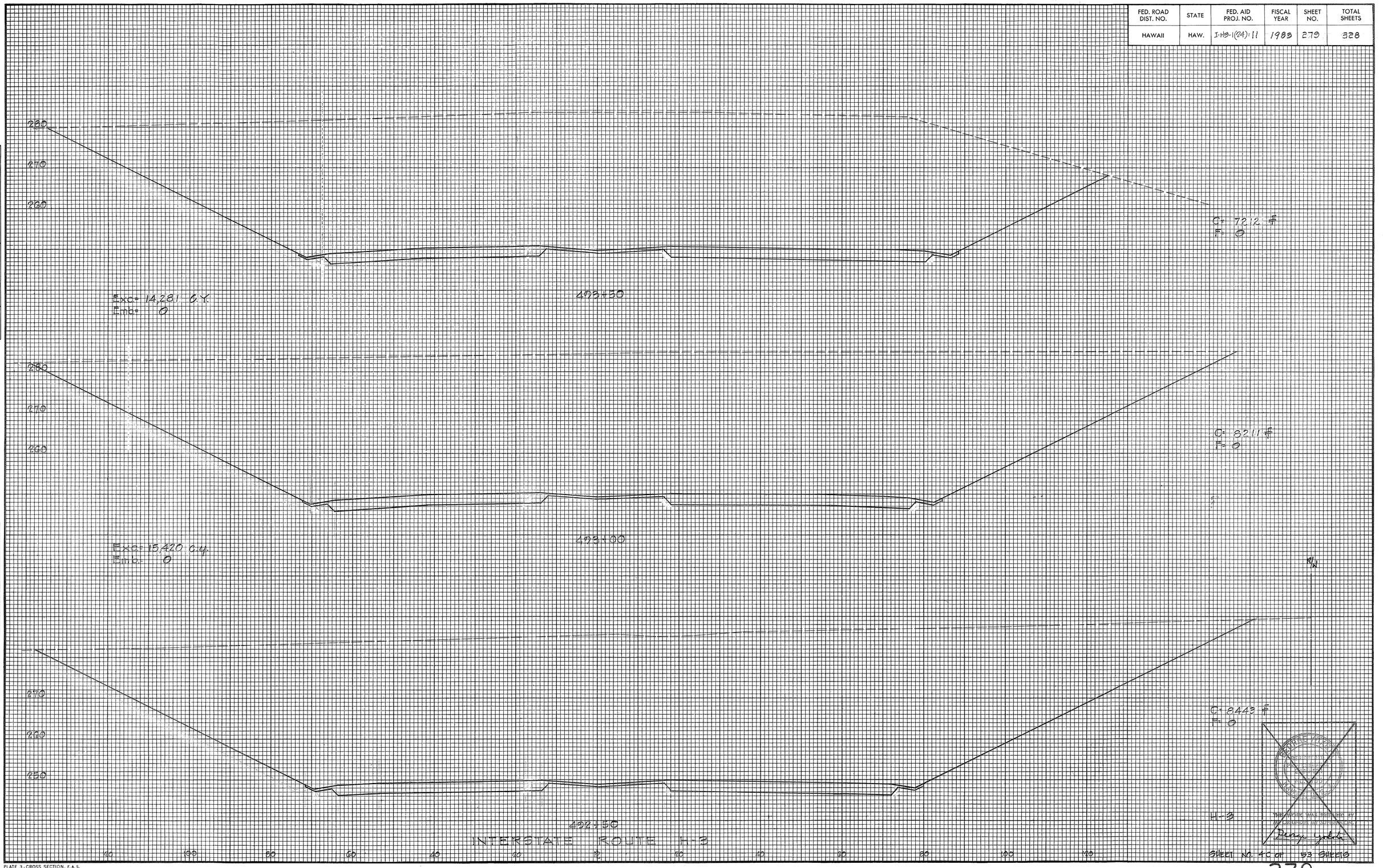
278

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	279	328

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



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Dennis Lyda

SHEET NO. 4C OF 53 SHEETS

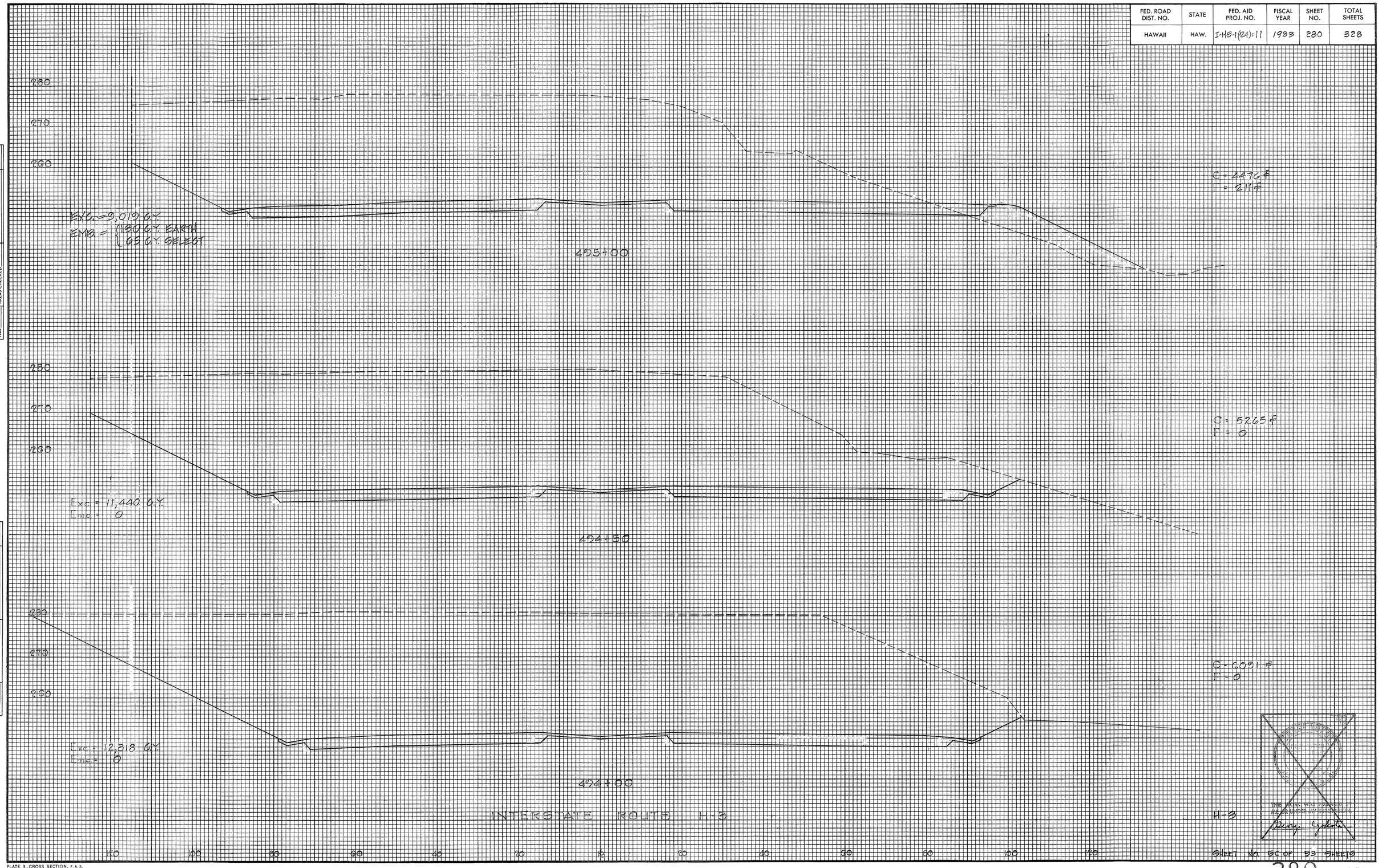
279

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	280	328

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

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



SHEET NO. 52 OF 53 SHEETS

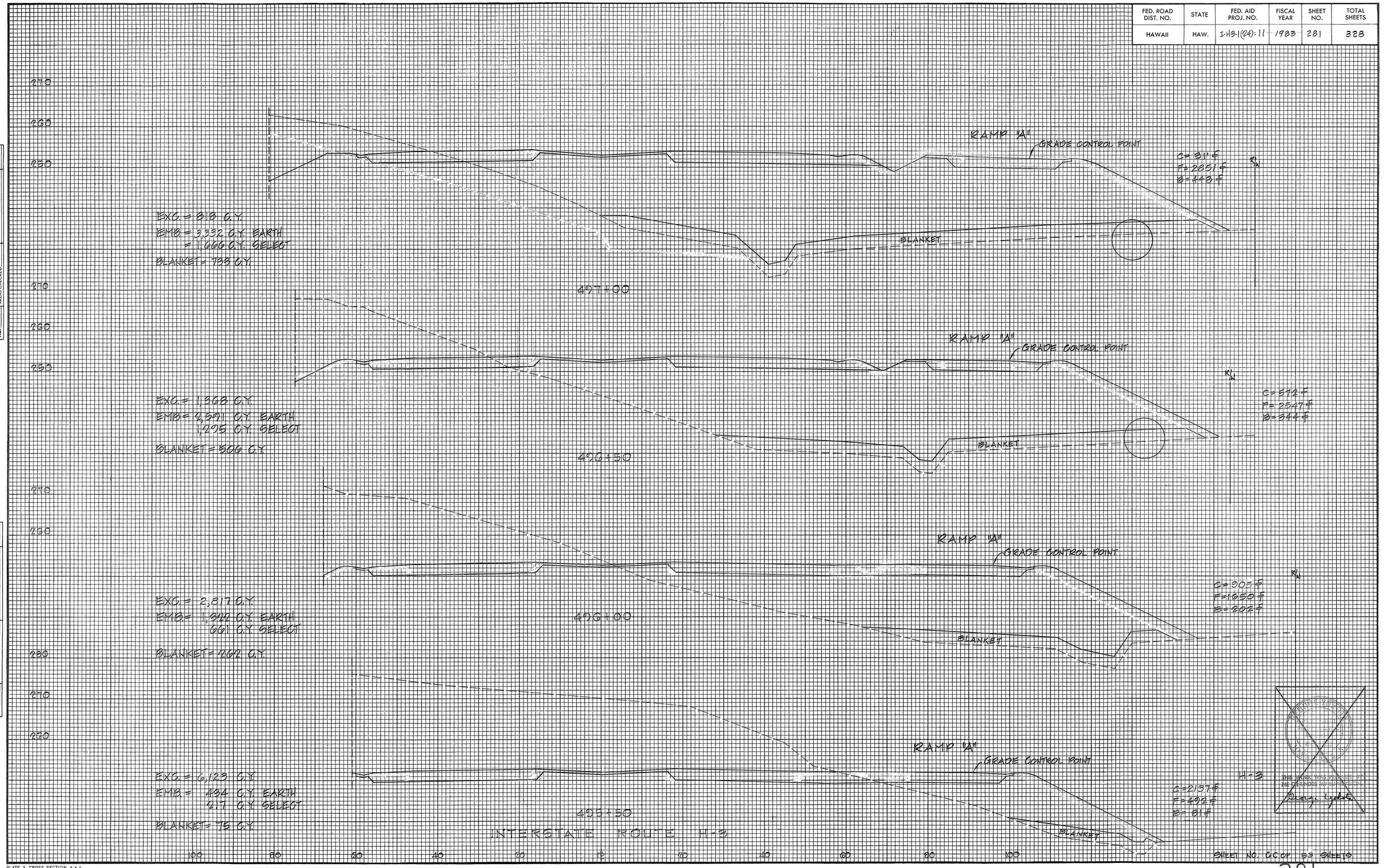
280

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	281	328

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



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SHEET NO. 66 OF 93 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	282	328

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

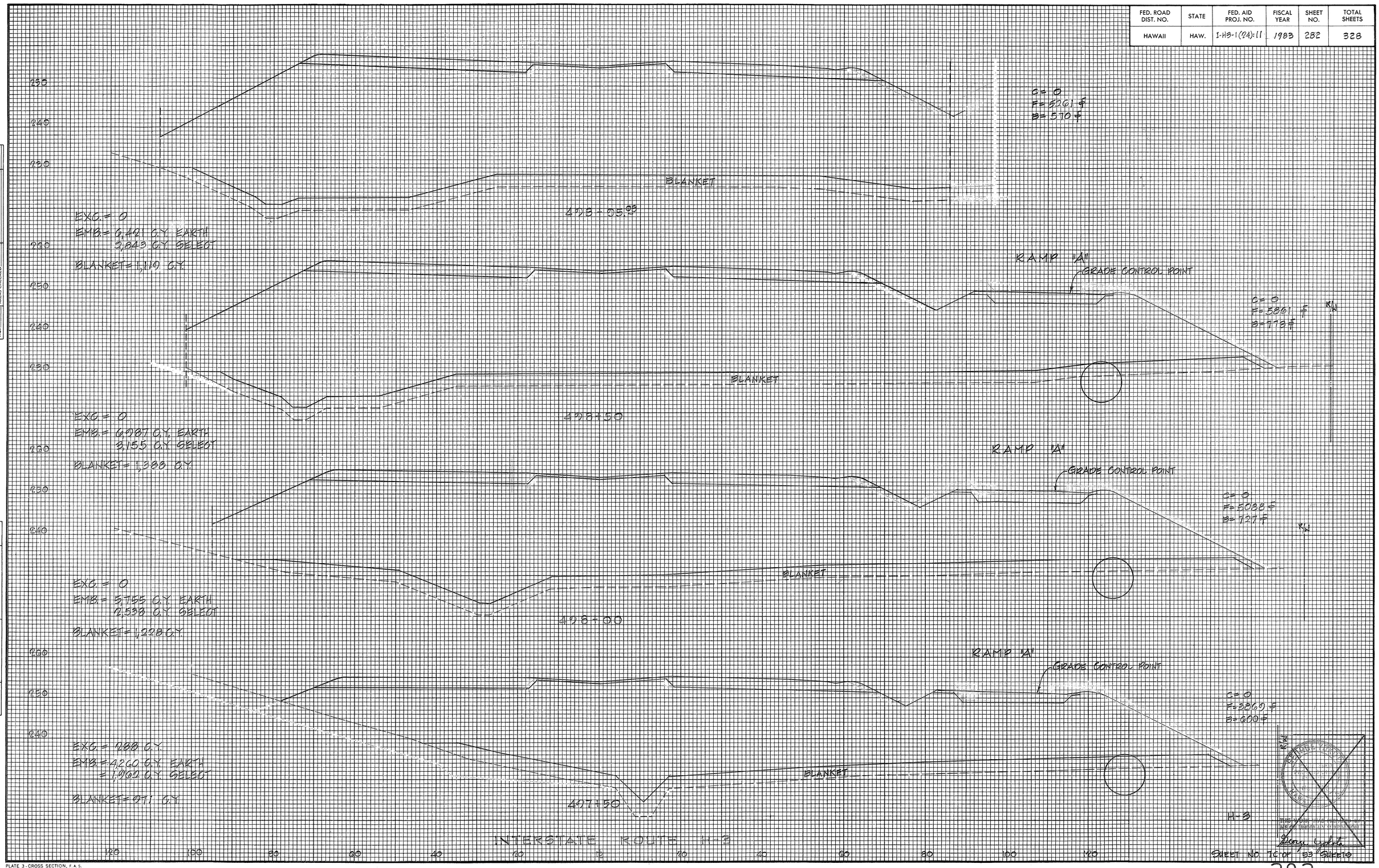


PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

282

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	283	328

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

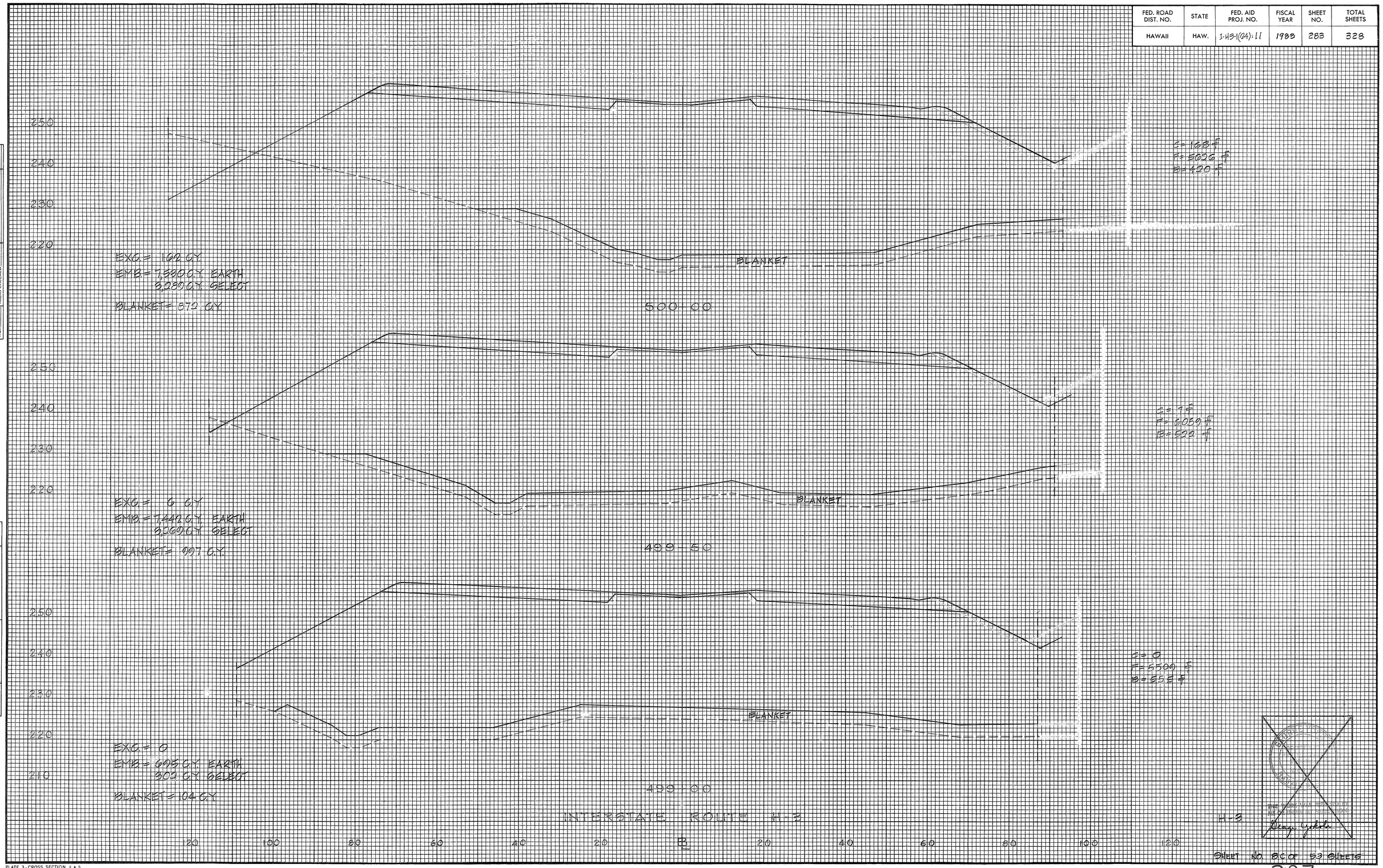


PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F., CAL. NO. 1000H-3

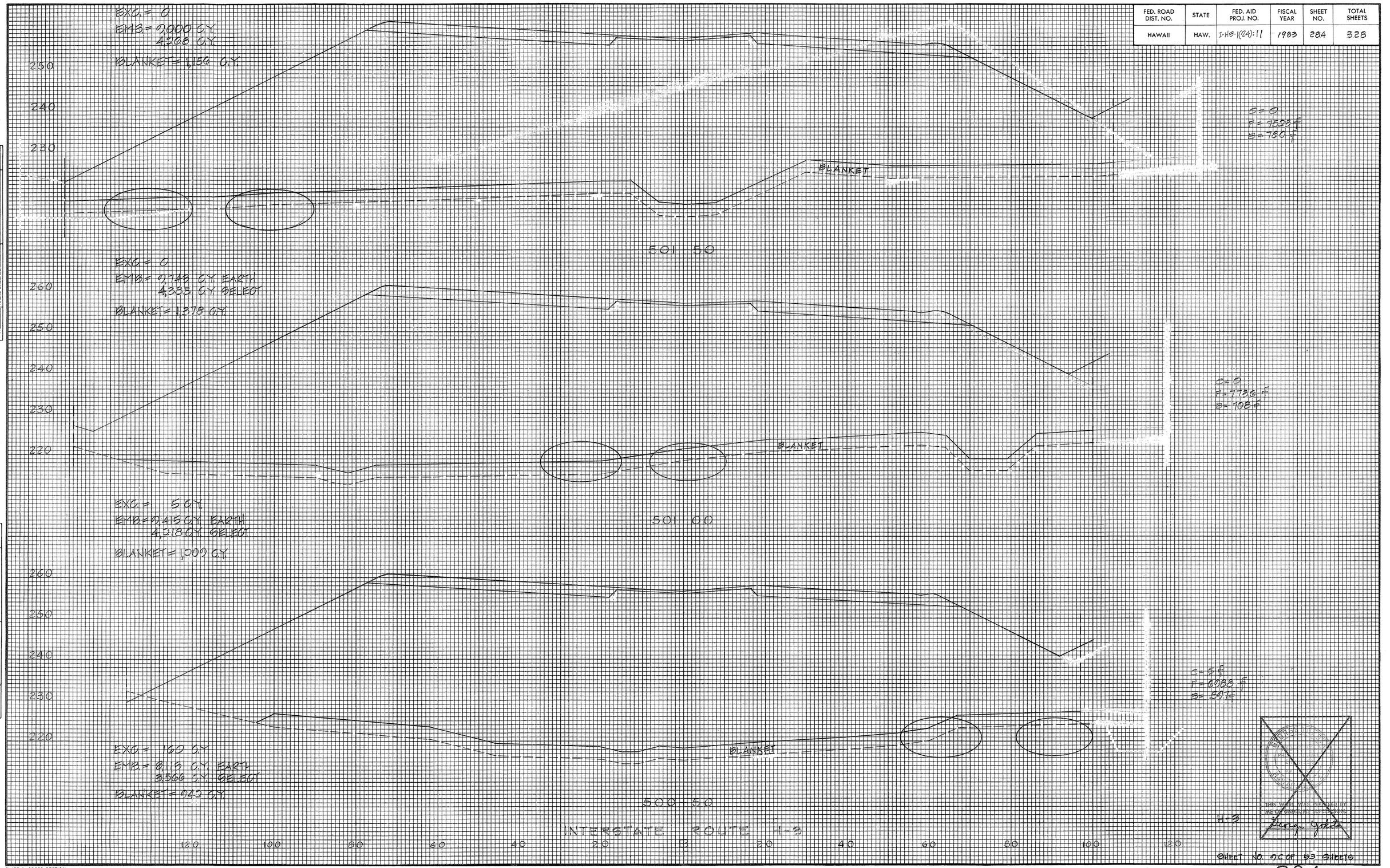
SHEET NO. 80 OF 53 SHEETS

283

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	284	328

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

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



THIS MAP WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHEET NO. 61 OF 83 SHEETS

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24)-11	1983	285	328

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

EXC. = 41
EMB = 1163 C.Y. EARTH
3502 C.Y. SELECT
SURCHARGE = 6118 C.Y.
REMOVAL OF SURCHARGE = 4804 C.Y.
BLANKET = 360 S.Y.

BRIDGE SURCHARGE

S = 2,192 #
C = 41
F = 5,128 #
B = 216 #

BLANKET

503+00

EXC. = 41
EMB = 7,567 C.Y. EARTH
6,666 C.Y. SELECT
SURCHARGE = 5004 C.Y.
REMOVAL OF SURCHARGE = 4643 C.Y.
BLANKET = 690 C.Y.

BRIDGE SURCHARGE

S = 3,166 #
C = 0
F = 6,798 #
B = 471 #

BLANKET

502+50

EXC. = 0
EMB = 8,902 C.Y. EARTH
4,306 C.Y. SELECT
SURCHARGE = 1091 C.Y.
REMOVAL OF SURCHARGE = 1344 C.Y.
BLANKET = 300 C.Y.

S = 0
C = 0
F = 6,008 #
B = 468 #

BLANKET

502+00

INTERSTATE ROUTE H-3

H-3

260 250 240 230 220

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

THIS PLAN WAS PREPARED OR APPROVED BY ME WHILE I WAS A REGISTERED ENGINEER IN THE STATE OF HAWAII
Dung Uyeda

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

SHEET NO. 10C OF 33 SHEETS

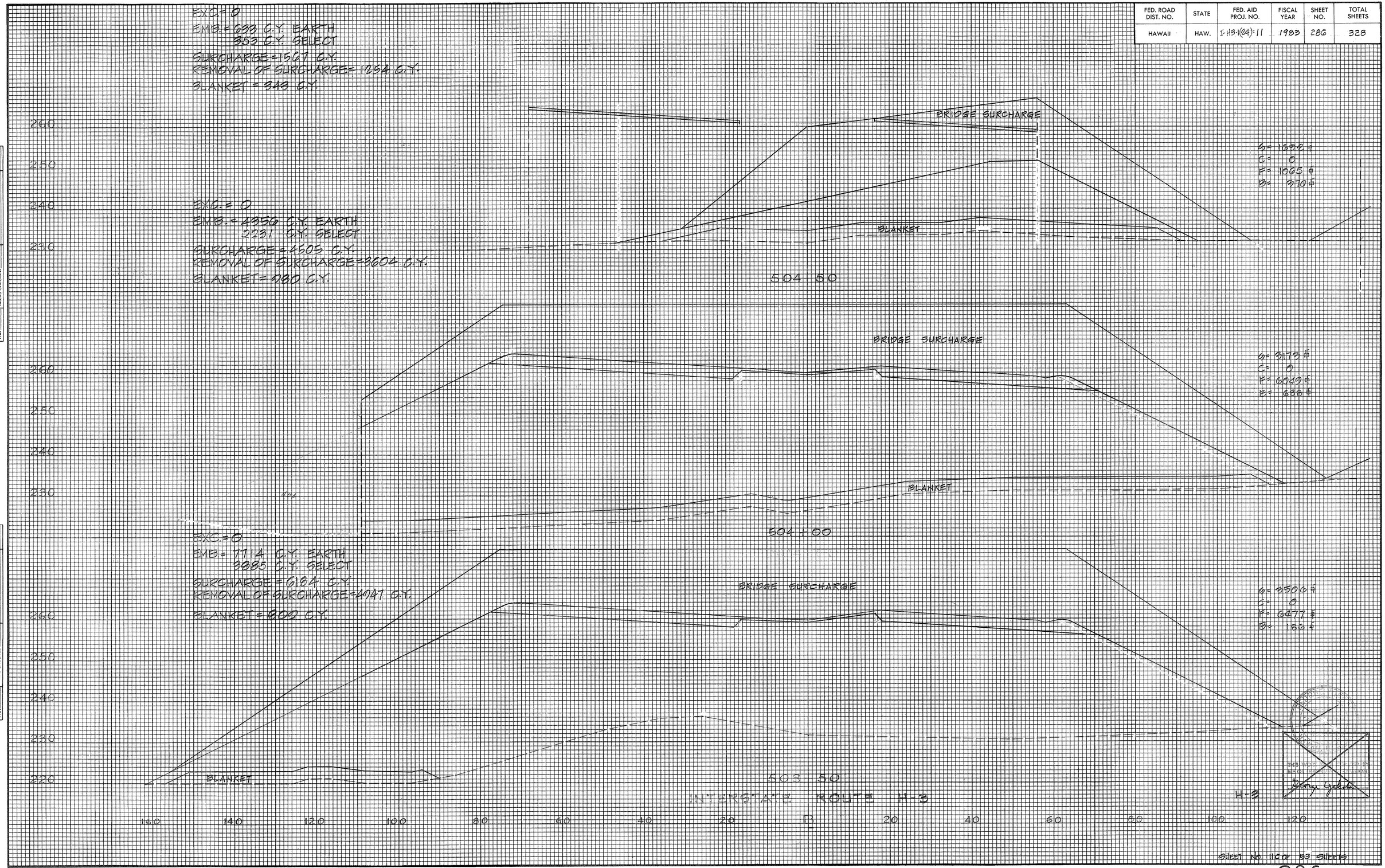
285

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	286	328

EXC.= 0
EMB.= 633 C.Y. EARTH
353 C.Y. SELECT
SURCHARGE = 1501 C.Y.
REMOVAL OF SURCHARGE = 1054 C.Y.
BLANKET = 949 C.Y.

EXC.= 0
EMB.= 4356 C.Y. EARTH
2231 C.Y. SELECT
SURCHARGE = 4505 C.Y.
REMOVAL OF SURCHARGE = 3604 C.Y.
BLANKET = 460 C.Y.

EXC.= 0
EMB.= 7714 C.Y. EARTH
3885 C.Y. SELECT
SURCHARGE = 6184 C.Y.
REMOVAL OF SURCHARGE = 4047 C.Y.
BLANKET = 800 C.Y.



b= 1650 #
C= 0
F= 1605 #
B= 270 #

b= 3179 #
C= 0
F= 6049 #
B= 638 #

b= 3506 #
C= 0
F= 6477 #
B= 166 #

H-3

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

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

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

SHEET NO. 116 OF 53 SHEETS

286

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	287	328

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

EXC. = 3558 C.Y.
EMB = 7106 C.Y. EARTH
3500 C.Y. SELECT
SURCHARGE = 0823 C.Y.
REMOVAL OF SURCHARGE = 0250 C.Y.

250 240 230 220 200 180 160 140 120 100 80 60 40 20 0 20 40

C = 1354
F = 4286

MATCH LINE

500+00

EXC. = 1125 C.Y.
EMB = 12645 C.Y. EARTH
1923 C.Y. SELECT

1150 1140 1130 1120 1110 1100 1090 1080 1070 1060 1050 1040 1030 1020 1010 1000 990 980 960 940 920 900 880

C = 0
F = 0

EXC. = 0
EMB = 0

505+50

C = 0
F = 0

505+00

INTERSTATE ROUTE H-3

80 60 40 20 0 20 40 60 80

H-3

THIS PLAN WAS PREPARED BY METRIC UNITS AND CONVERTED

Diego Ybata

SHEET NO. 112 OF 53 SHEETS

287

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.

NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	288	328

EXC.= 6985 C.Y.
EMB.= 6988 C.Y. EARTH
8196 C.Y. SELECT
SURCHARGE = 5660 C.Y.
REMOVAL OF SURCHARGE = 4535 C.Y.

BRIDGE SURCHARGE

MATCH LINE

S = 2987 ℄
C = 0704 ℄
F = 4389 ℄

507+00

RAMP "G"

GRADE CONTROL POINT

EXC.= 11811 C.Y.
EMB.= 7020 C.Y. EARTH
3614 C.Y. SELECT
SURCHARGE = 5580 C.Y.
REMOVAL OF SURCHARGE = 4471 C.Y.

BRIDGE SURCHARGE

S = 3043 ℄
C = 2524 ℄
F = 1371 ℄

506+50

INTERSTATE ROUTE H-3

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SHEET NO. 19C OF 33 SHEETS

288

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

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

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(124):11	1983	289	328

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 ____

EXC = 2448 C.Y.
EMB = 24854 C.Y. EARTH
1027 C.Y. SELECT
SURCHARGE = 5294 C.Y.
REMOVAL OF SURCHARGE = 4227 C.Y.

MATCH LINE

BRIDGE SURCHARGE

508+00

RAMP "G"

BRIDGE CONTROL POINT

G = 3.00%
C = 165
F = 2.67%

EXC = 102 C.Y.
EMB = 6281 C.Y. EARTH
1741 C.Y. SELECT
SURCHARGE = 5709 C.Y.
REMOVAL OF SURCHARGE = 4662 C.Y.

BRIDGE SURCHARGE

507+50

RAMP "G"

GRADE CONTROL POINT

G = 3.13%
C = 40'
F = 0.0008'

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Dennis Uyehara

INTERSTATE ROUTE H-3

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL.

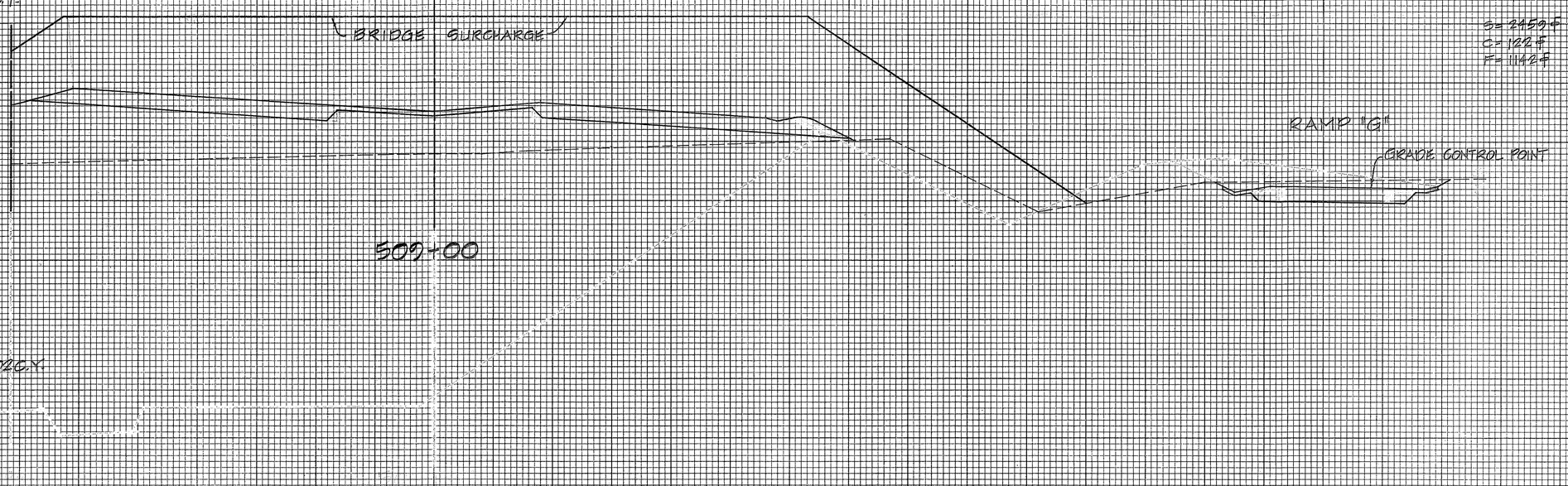
NO. 1000H-3

SHEET NO. 14 OF 33 SHEETS

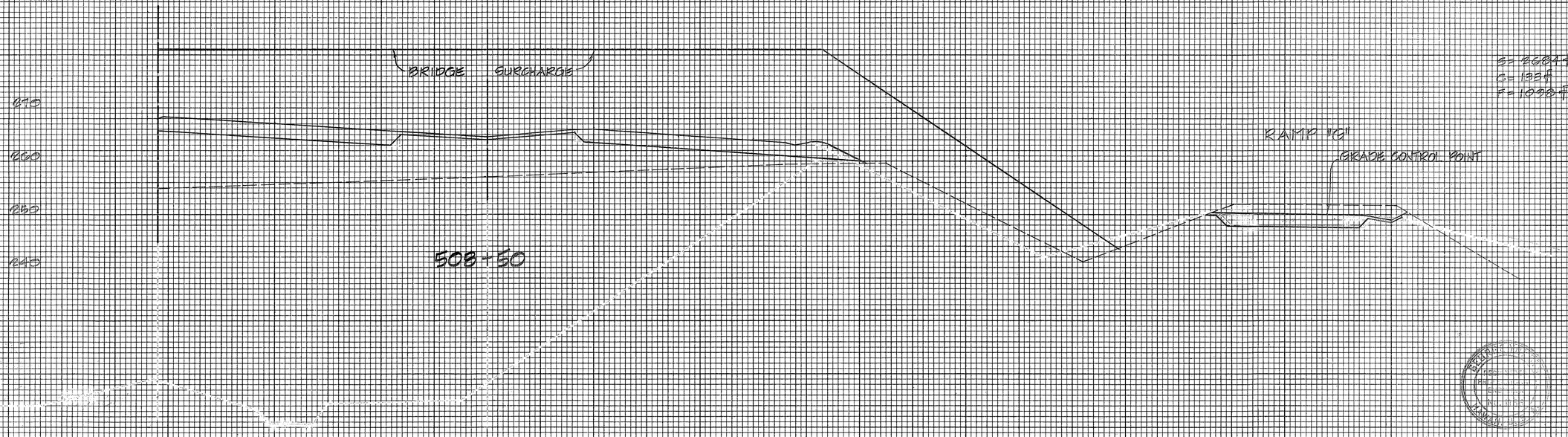
289

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	290	328

EXC = 915 C.Y.
EMB = 1151 C.Y. EARTH
1160 C.Y. SELECT
SURCHARGE = 4640 C.Y.
REMOVAL OF SURCHARGE = 3712 C.Y.



EXC = 1236 C.Y.
EMB = 1808 C.Y. EARTH
681 C.Y. SELECT
SURCHARGE = 4758 C.Y.
REMOVAL OF SURCHARGE = 3802 C.Y.



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

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Duane Yoshida
H-3

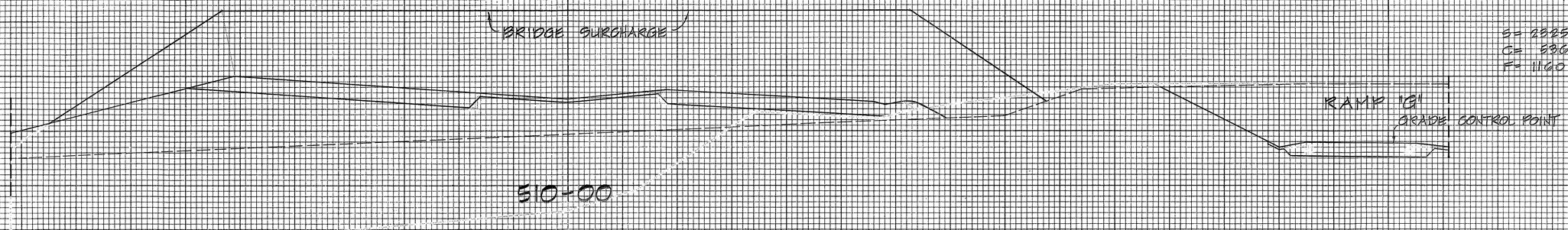
SHEET NO. 15C OF 23 SHEETS

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.
NO. 1000H-3

290

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	291	328

EXC.= 5866 C.Y.
EMB= 15440 C.Y. EARTH
776 C.Y. SELECT

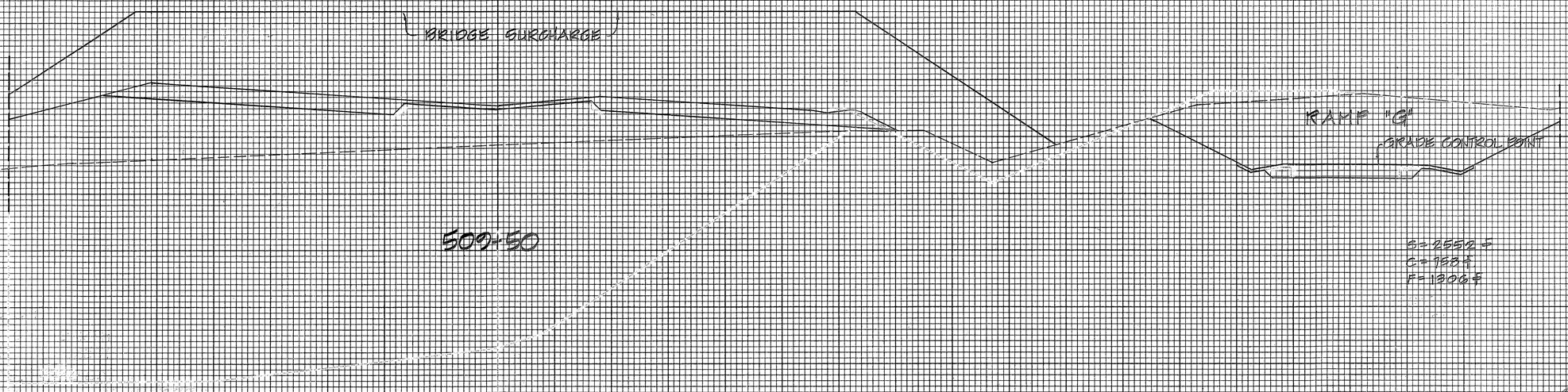


S= 23225 ft
C= 536 ft
F= 11160 ft

EXC = 1198 C.Y.
EMB= 15440 C.Y. EARTH
7661 C.Y. SELECT

SURCHARGE = 45116 C.Y.
REMOVAL OF SURCHARGE = 36138 C.Y.

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



S= 25525 ft
C= 758 ft
F= 13065 ft

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

INTERSTATE ROUTE H-3

THIS MAP WAS PREPARED BY MEANS OF AERIAL PHOTOGRAPHY

H-3

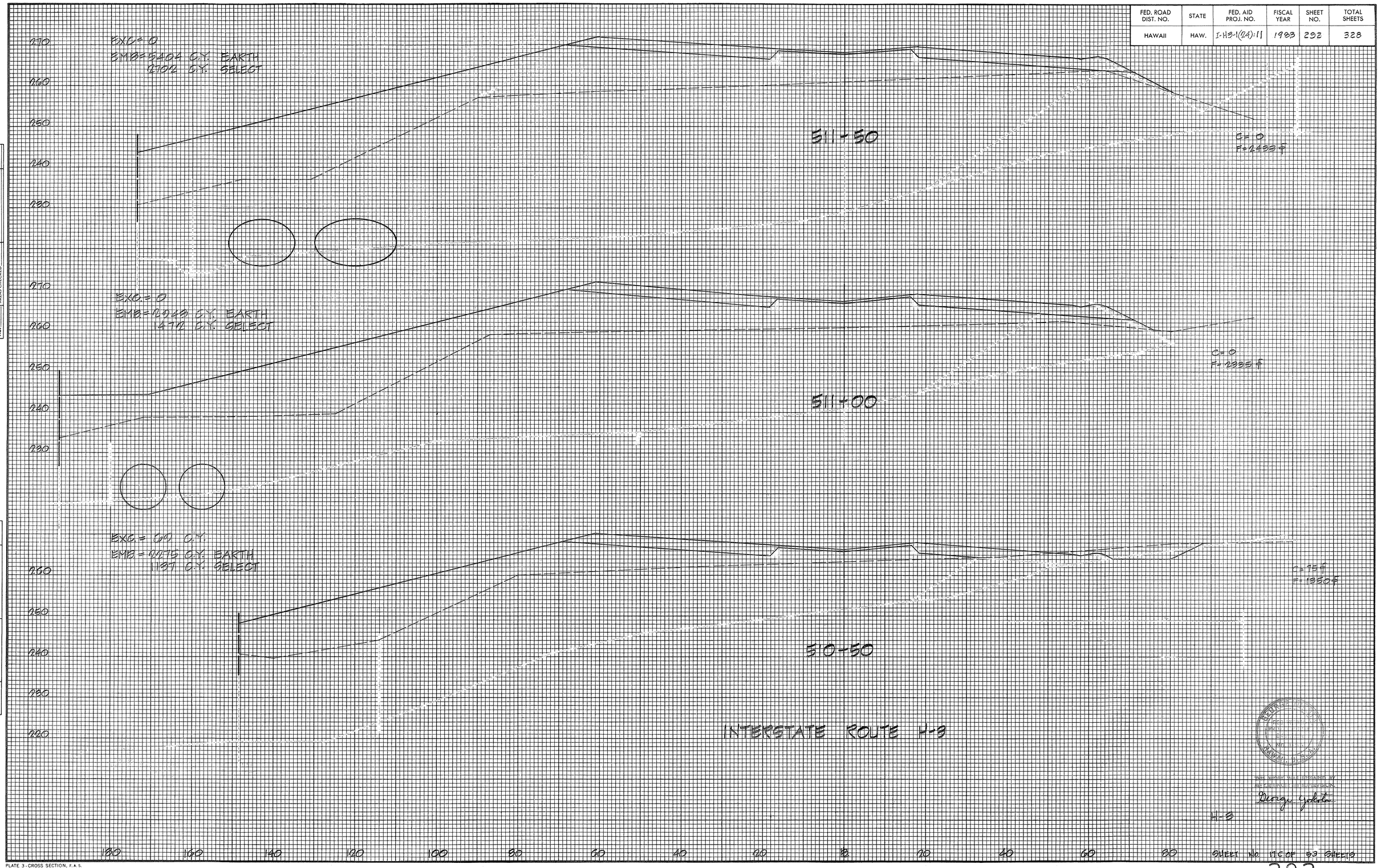
SHEET NO. 166 OF 93 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	292	328

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



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H-3

SHEET NO. 17C OF 53 SHEETS

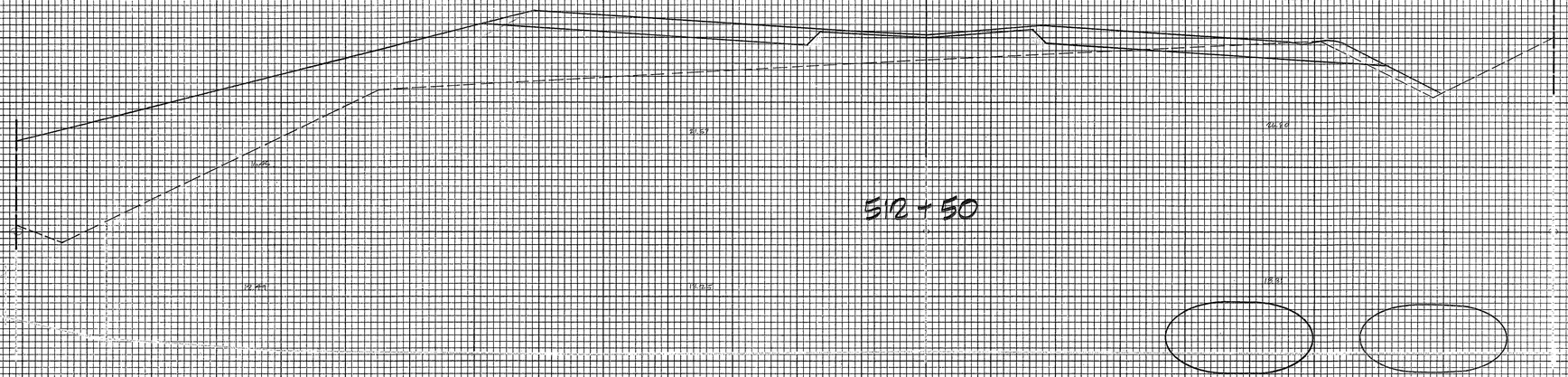
292

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F., CAL. NO. 1000H-3

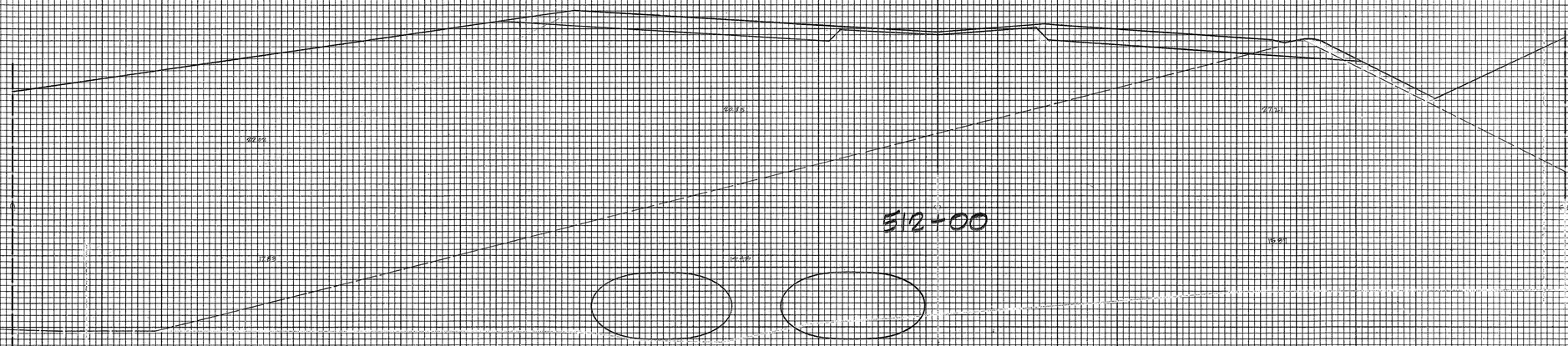
H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	293	328

EXC = 56 C.Y.
EMB = 598 C.Y. EARTH
704 C.Y. SELECT



EXC. = 0
EMB = 4844 C.Y. EARTH
12422 C.Y. SELECT



INTERSTATE ROUTE H-3

H-3

SHEET NO. 18C OF 33 SHEETS

293

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

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	294	328

EXC = 79 C.Y.
EMB = 1478 C.Y. EARTH
1696 C.Y. SELECT

RAMP "B"

GRADE CONTROL POINT

270
260
250

513+10.47

C= 0
F= 1025 ft

EXC = 88 C.Y.
EMB = 1120 C.Y. EARTH
504 C.Y. SELECT

270
260
250

513+50

C= 102 ft
F= 336 ft

80 60 40 20 ℄ 20 40 60 80 100 120 140 160 180 200 220

EXC = 151 C.Y.
EMB = 855 C.Y. EARTH
1408 C.Y. SELECT

260
250
240

513+00

C= 61 ft
F= 1048 ft

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

INTERSTATE ROUTE H-3

H-3

SHEET NO. 17C OF 53 SHEETS

294

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

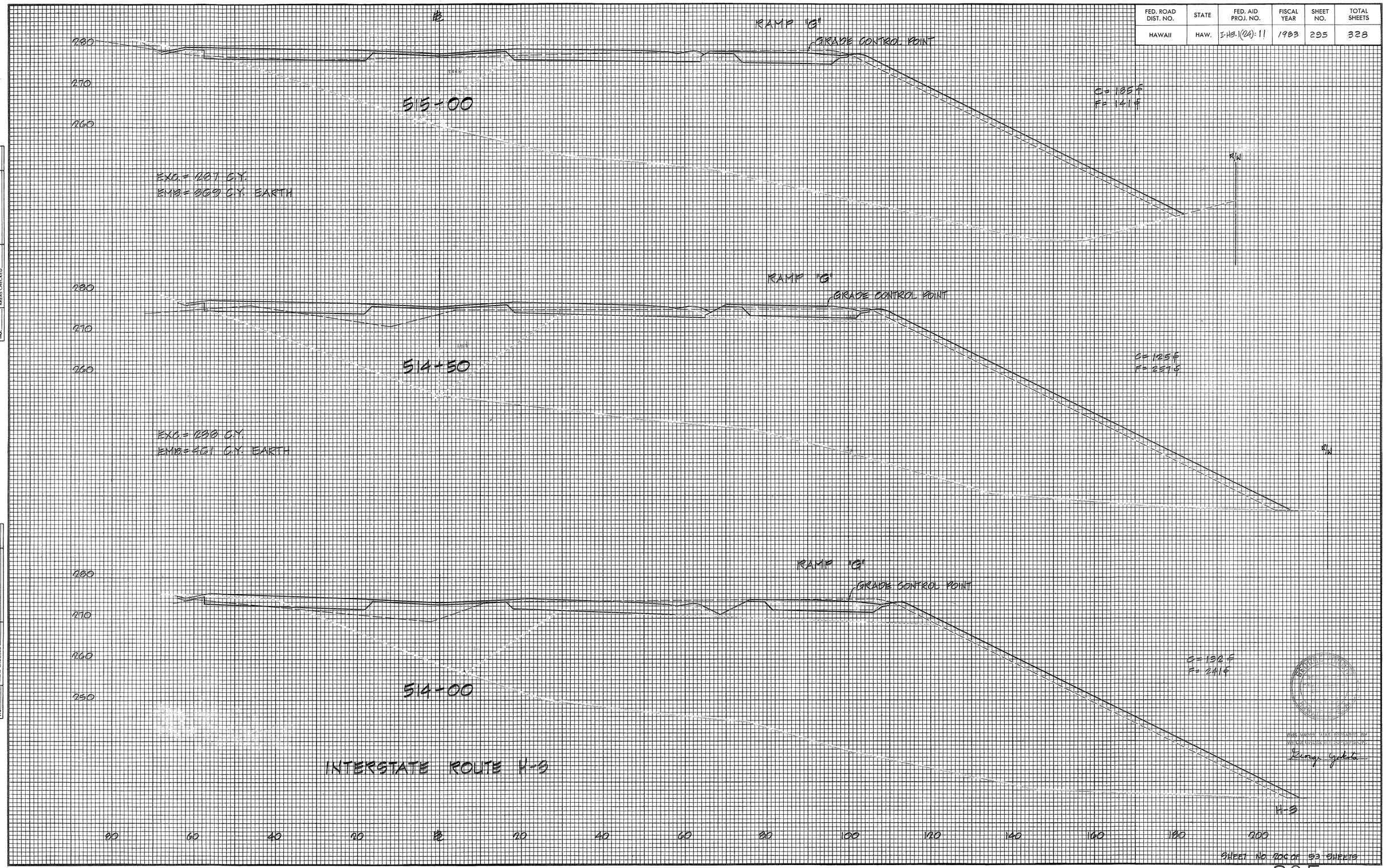
ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	295	328

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

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Bruce Yoder

SHEET NO. 295 OF 328 SHEETS

295

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	296	328

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

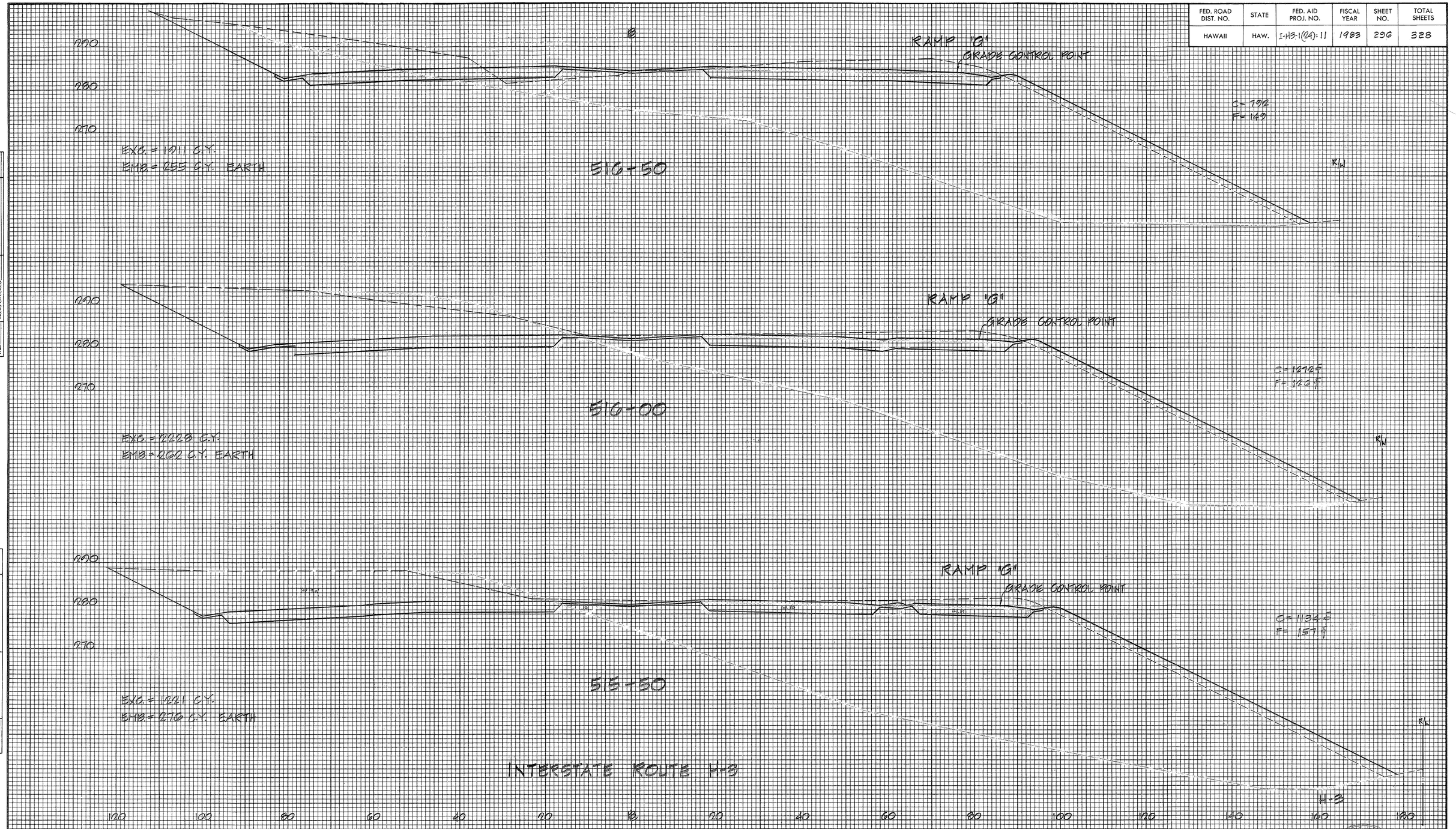


PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

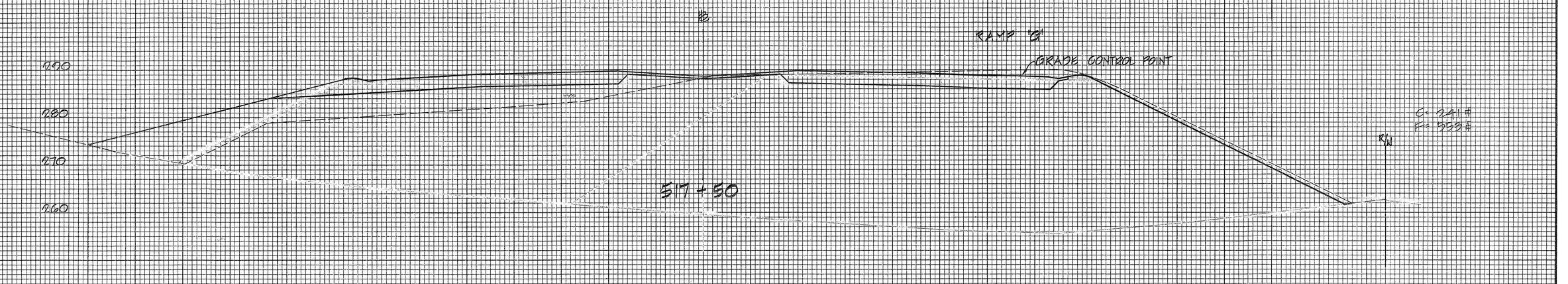
SHEET NO. 216 OF 328 SHEETS

296

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	297	328

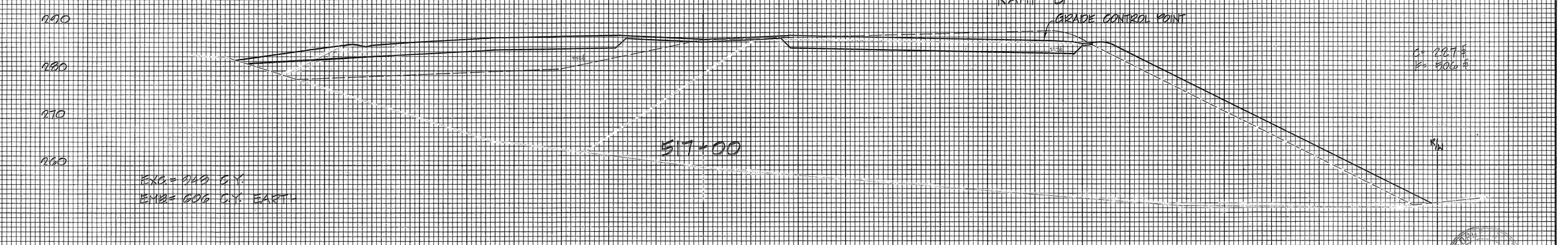
EXC = 307 C.Y.
EMB = 1176 C.Y. EARTH

RAMP "B"
GRADE CONTROL POINT



EXC = 433 C.Y.
EMB = 981 C.Y. EARTH

RAMP "D"
GRADE CONTROL POINT



EXC = 1145 C.Y.
EMB = 606 C.Y. EARTH

120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

THESE MAPS WERE PREPARED BY
AND UNDER THE DIRECTION OF
Diego Yukita

SHEET NO 296 OF 53 SHEETS

297

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, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(124):11	1983	298	328

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

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

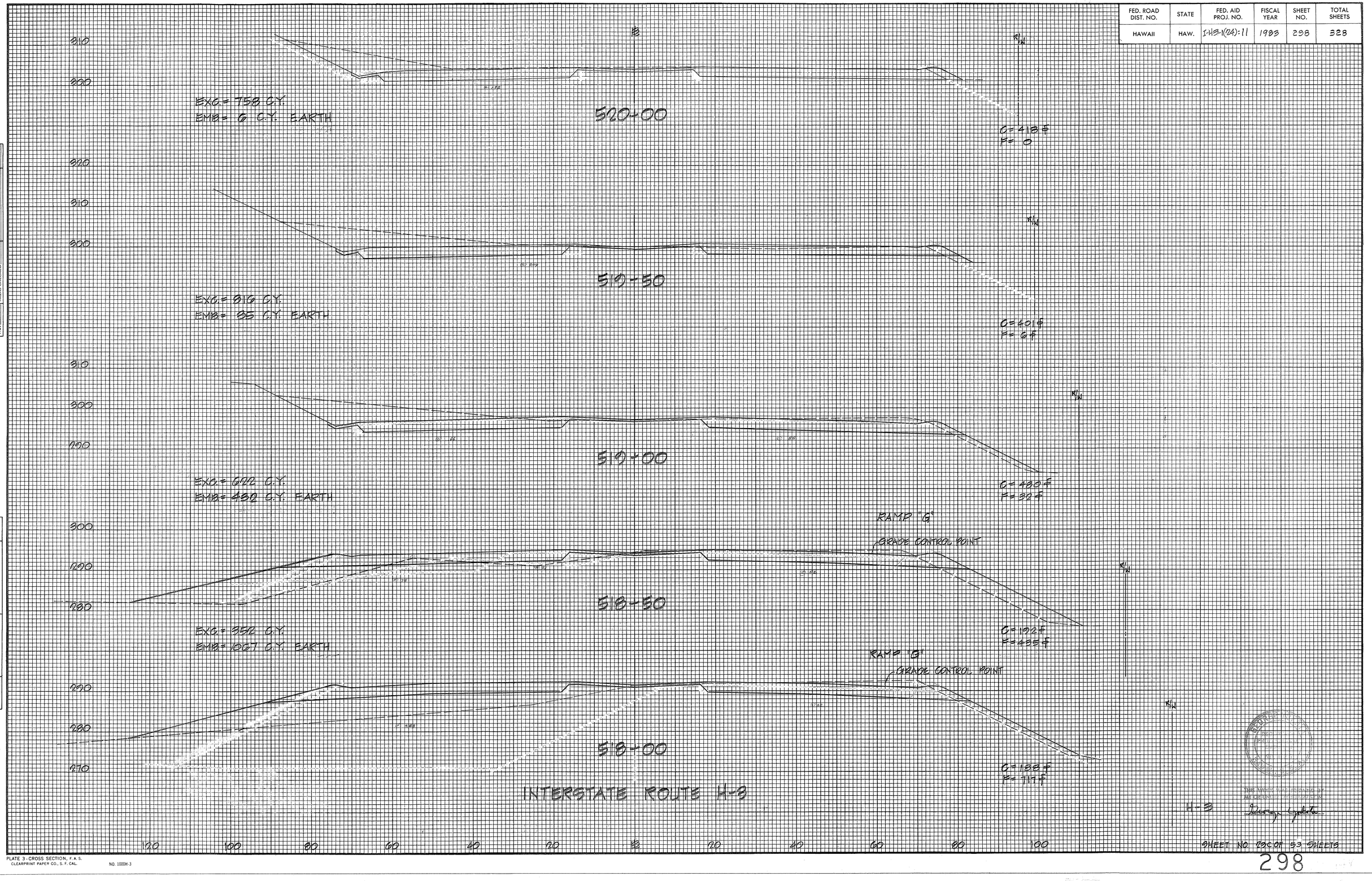


PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

SHEET NO. 93 OF 53 SHEETS

298

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(22):11	1983	299	328

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

EXC = 877 C.Y.
EMB = 0

C = 2450 #
F = 0

EXC = 851 C.Y.
EMB = 8 C.Y. EARTH

C = 525 #
F = 0

521+50

EXC = 871 C.Y.
EMB = 0

C = 4800 #
F = 0

EXC = 1104 C.Y.
EMB = 2 C.Y. EARTH

523+00

C = 655 #
F = 2 #

EXC = 837 C.Y.
EMB = 0

521+00

EXC = 1090 C.Y.
EMB = 2 C.Y. EARTH

522+50

C = 4005 #
F = 0

C = 4084 #
F = 0

EXC = 778 C.Y.
EMB = 0

520+50

522+00

INTERSTATE ROUTE H-3

RONALD YOSHIO TAKIGUCHI
REGISTERED PROFESSIONAL ENGINEER
No. 6156
STATE OF HAWAII
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

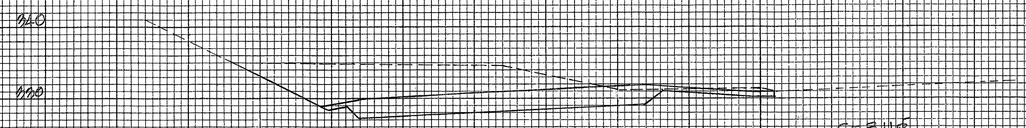
SHEET No. 240 OF 53 SHEETS

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	300	328

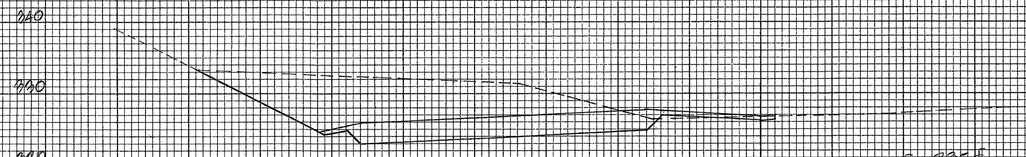
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TRACED
AREAS
AREAS CHECKED
BY
DATE

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



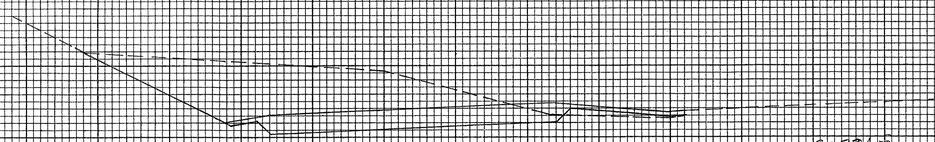
524+50

EXC = 645 C.Y.
EMB = 8 C.Y. EARTH



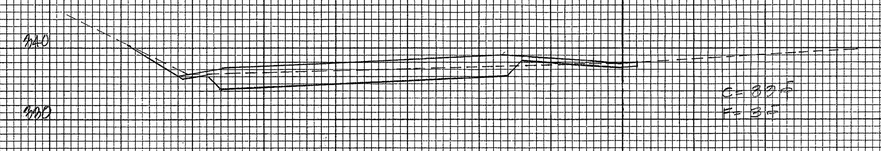
524+00

EXC = 766 C.Y.
EMB = 10 C.Y. EARTH



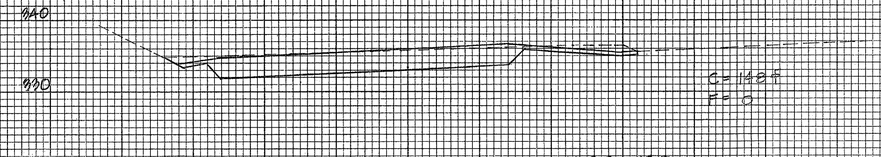
523+50

EXC = 1044 C.Y.
EMB = 0



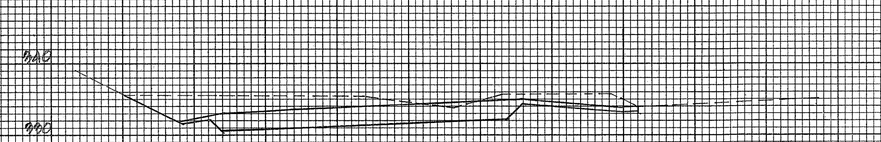
526+00

EXC = 210 C.Y.
EMB = 8 C.Y. EARTH



525+50

EXC = 841 C.Y.
EMB = 0



525+00

EXC = 404 C.Y.
EMB = 0

INTERSTATE ROUTE H-3

REGISTERED PROFESSIONAL ENGINEER
No. 11155
STATE OF HAWAII
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 25C OF 53 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F., CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(224):11	1983	301	328

THIS WORK WAS PREPARED IN THE OFFICE OF THE UNDERSIGNED

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

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

KAMEHAMEHA HIGHWAY

KAM HWY

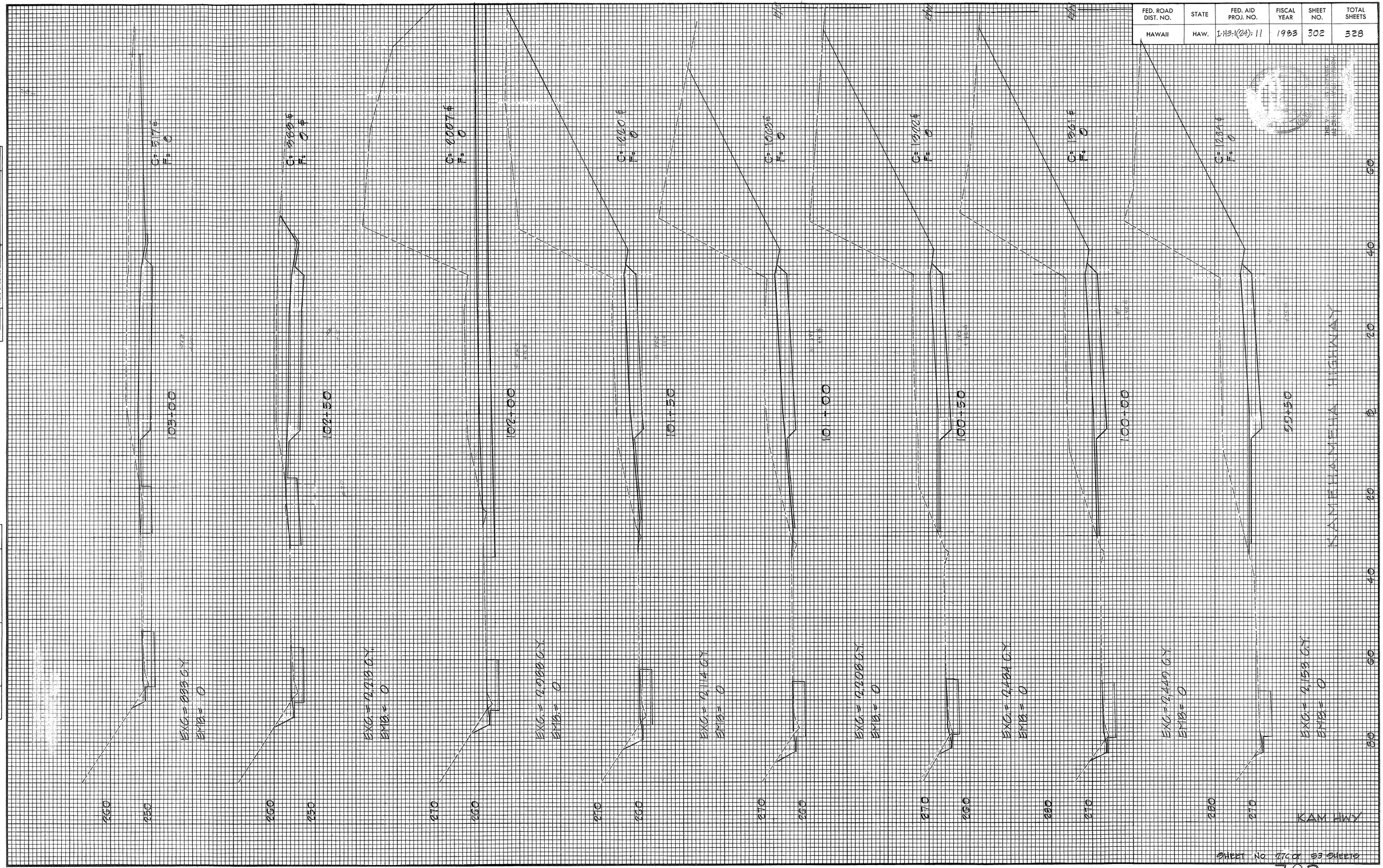
SHEET NO. 26C OF 53 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24): 11	1983	302	328

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

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



SHEET NO. 47C OF 53 SHEETS

302

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	303	328

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

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

KAMEHAMEHA HIGHWAY

KAM HWY

STA 107+00 — C: 3.4 F, F: 2.2 F — EXC = 1,550 C.Y. — EMB = 0

STA 106+50 — C: 0.2 F, F: 14.4 F — EXC = 1,100 C.Y. — EMB = 850 C.Y. EMBANKMENT

STA 106+00 — C: 10.8 F, F: 3.5 F — EXC = 1,150 C.Y. — EMB = 1,150 C.Y. EMBANKMENT

STA 105+50 — C: 11.1 F, F: 0 — EXC = 1,100 C.Y. — EMB = 1,100 C.Y. EMBANKMENT

STA 105+00 — C: 2.2 F, F: 0 — EXC = 800 C.Y. — EMB = 800 C.Y. EMBANKMENT

STA 104+50 — C: 4.5 F, F: 0 — EXC = 800 C.Y. — EMB = 800 C.Y. EMBANKMENT

STA 104+00 — C: 4.2 F, F: 0 — EXC = 700 C.Y. — EMB = 700 C.Y. EMBANKMENT

STA 103+50 — C: 1.4 F, F: 0 — EXC = 210 C.Y. — EMB = 210 C.Y. EMBANKMENT

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

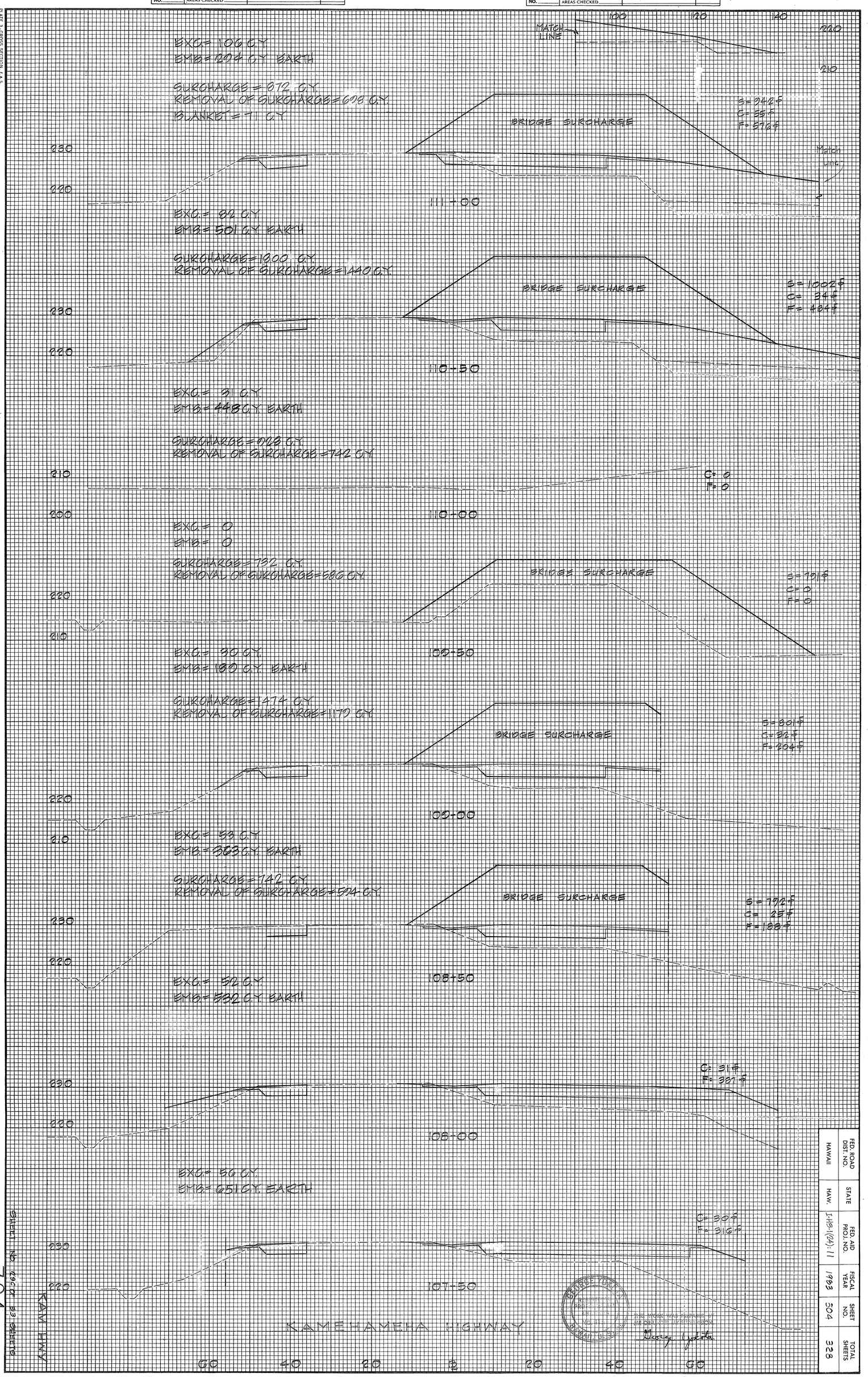
SHEET NO. 78C OF 83 SHEETS

303

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

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

PLATE 2 CROSS SECTION, F.A.S.
CLAMPITT PAPER CO., S. F. CAL.
NO. 1000R-3



THIS PLAN WAS PREPARED BY OR UNDER MY DIRECTION

Wesley Yuasa

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HS-1(62):11	1993	304	328

SHEET NO. 1090 OF 33 SHEETS

304

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(124):11	1983	305	328

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

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

MATCH LINE

MATCH LINE

STA. 0+00

STA. 1+00

STA. 2+00

STA. 3+00

STA. 4+00

STA. 5+00

STA. 6+00

STA. 7+00

STA. 8+00

STA. 9+00

STA. 10+00

STA. 11+00

STA. 12+00

STA. 13+00

STA. 14+00

STA. 15+00

STA. 16+00

STA. 17+00

STA. 18+00

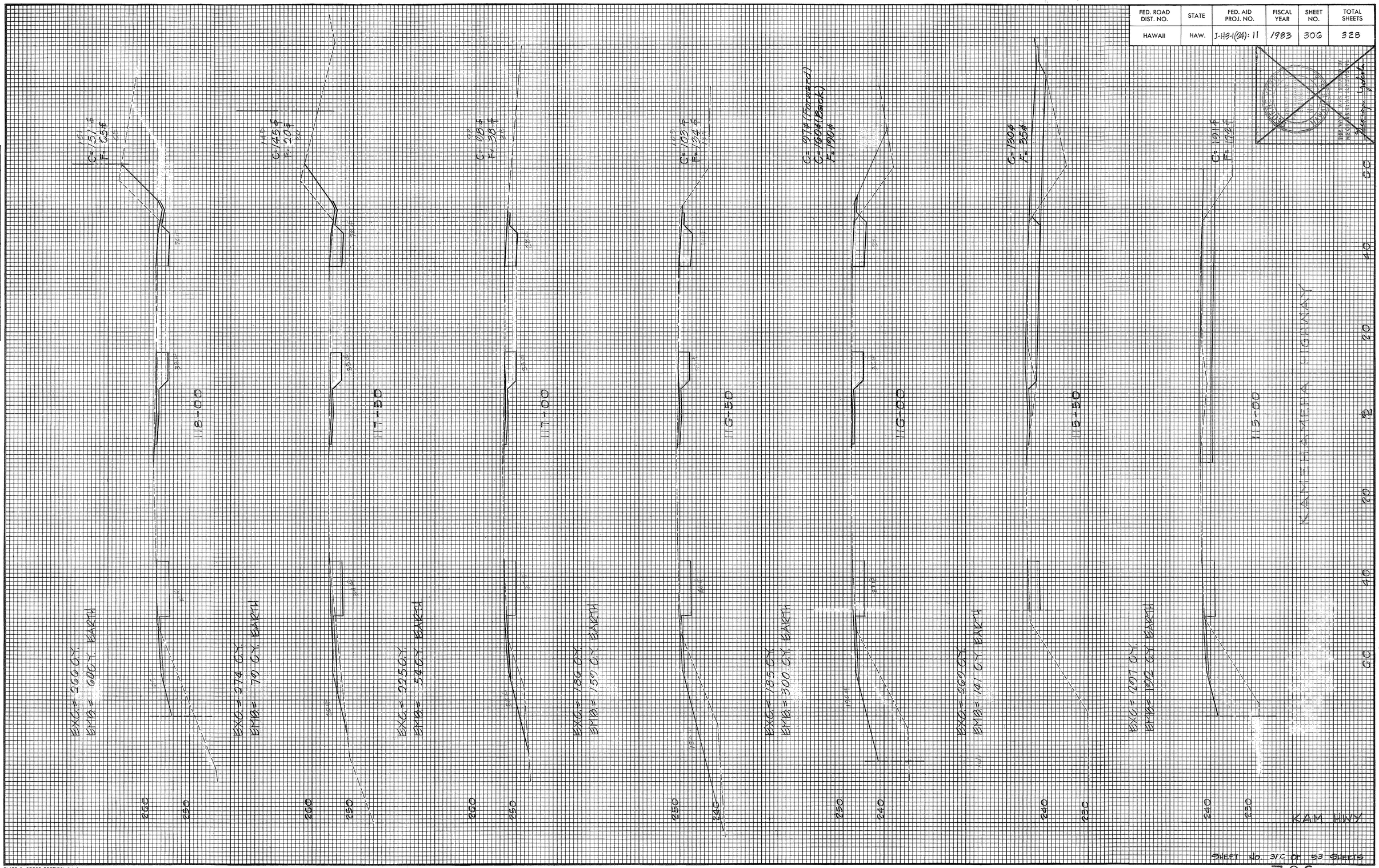
STA. 19+00

STA.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HS-1(24): 11	1983	306	328

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

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



SHEET NO. 31C OF 83 SHEETS

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	307	328

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

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stacy Lum

KAMEHAMEHA HIGHWAY

KAM HWY

EXC = 211 C.Y.
EMB = 750 C.Y. EARTH

EXC = 217 C.Y.
EMB = 776 C.Y. EARTH

EXC = 210 C.Y.
EMB = 756 C.Y. EARTH

EXC = 224 C.Y.
EMB = 719 C.Y. EARTH

EXC = 226 C.Y.
EMB = 370 C.Y. EARTH

EXC = 200 C.Y.
EMB = 0

EXC = 240 C.Y.
EMB = 0

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

SHEET NO. 326 OF 33 SHEETS

307

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HS-1(24):11	1983	308	328

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

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

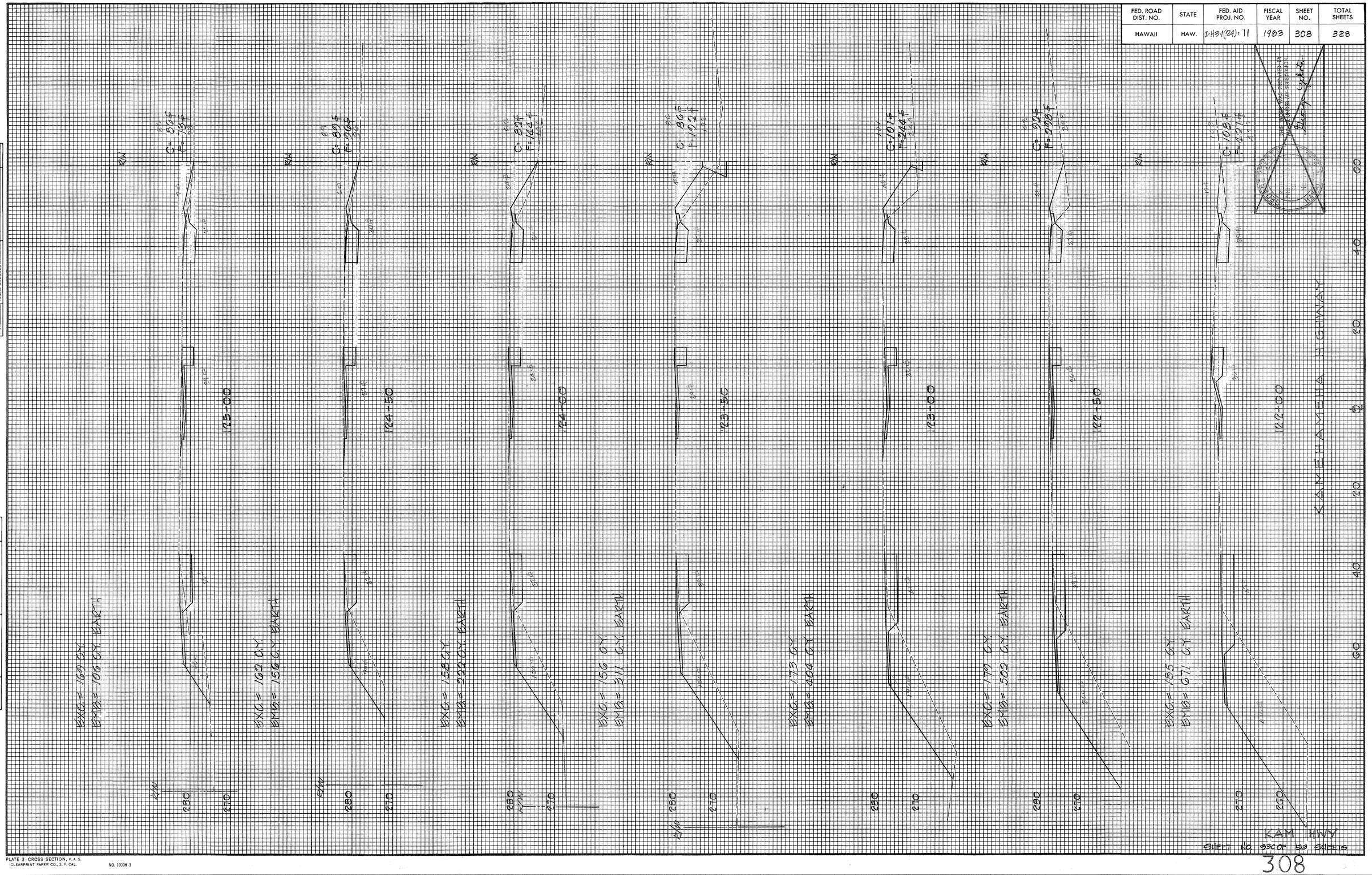


PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24): 11	1983	309	328

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

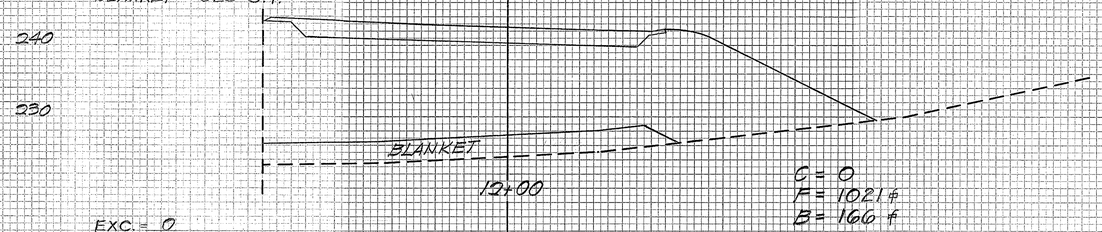
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED		
NO.			

SHEET NO. 84C OF 93 SHEETS

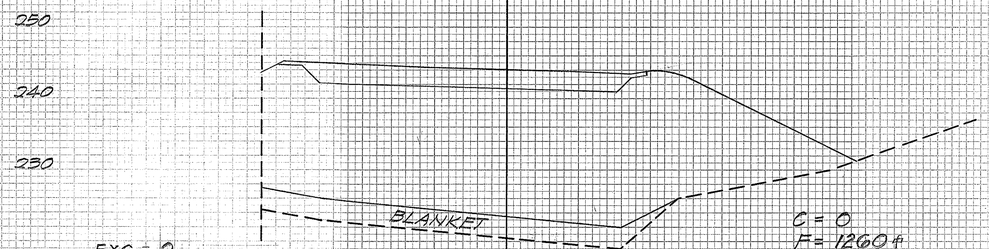
PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	310	328

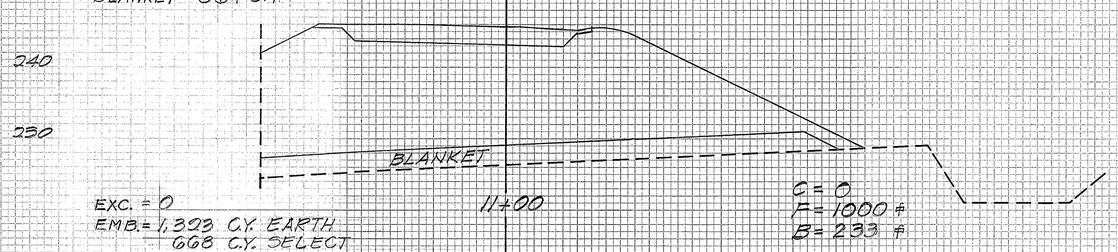
EXC. = 0
EMB. = 1,090 C.Y. EARTH
522 C.Y. SELECT
BLANKET = 323 C.Y.



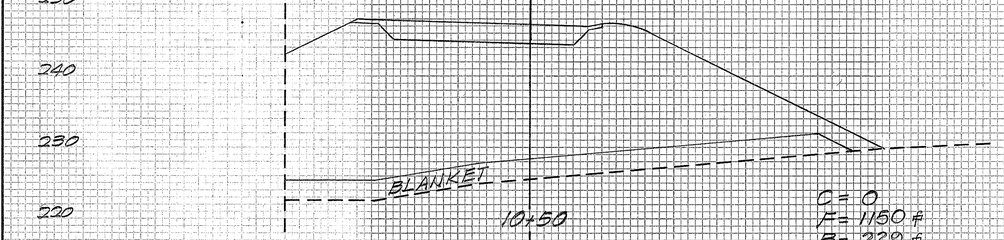
EXC. = 0
EMB. = 1,430 C.Y. EARTH
673 C.Y. SELECT
BLANKET = 302 C.Y



EXC. = 0
EMB. = 1,457 C.Y. EARTH
696 C.Y. SELECT
BLANKET = 364 C.Y.

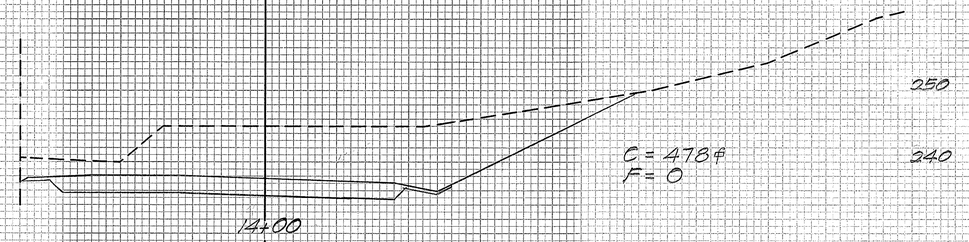


EXC. = 0
EMB. = 1,303 C.Y. EARTH
668 C.Y. SELECT
BLANKET = 428 C.Y.

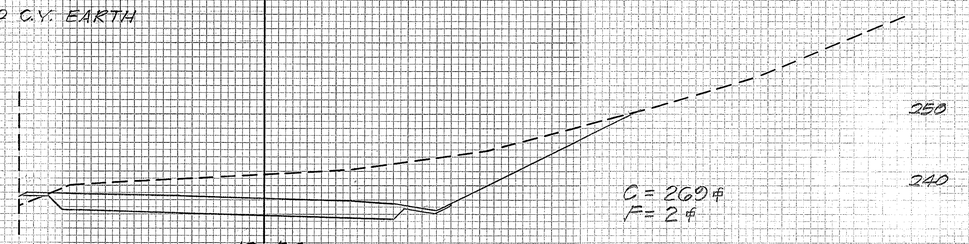


RAMP "A"

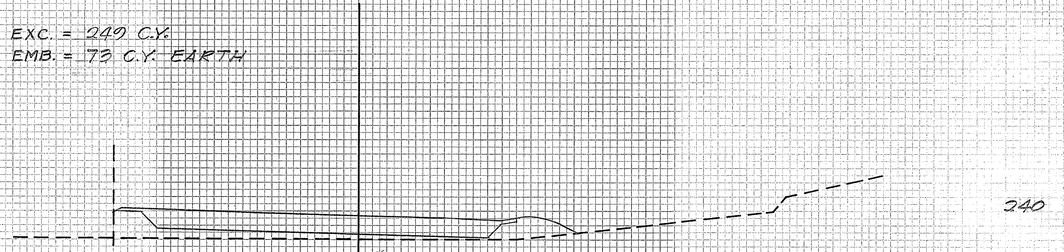
EXC. = 608 C.Y.
EMB. = 11 C.Y. EARTH



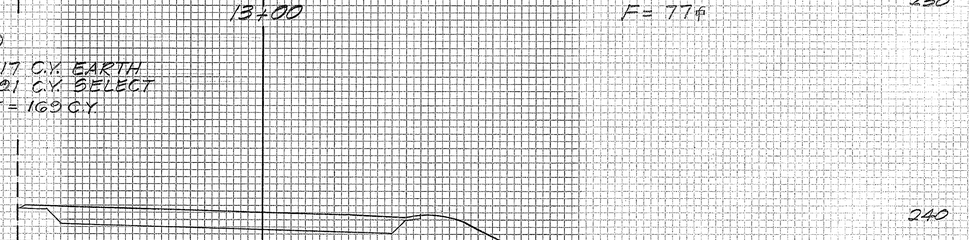
EXC. = 602 C.Y.
EMB. = 0 C.Y. EARTH



EXC. = 249 C.Y.
EMB. = 73 C.Y. EARTH



EXC. = 0
EMB. = 717 C.Y. EARTH
21 C.Y. SELECT
BLANKET = 169 C.Y.



RAMP "A"

SHEET NO. 35C OF 53 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24):11	1983	311	328

FINAL SURVEY — SURVEYED / PLOTTED / TRIANGULATE / AREAS / AREAS CHECKED — NOTE BOOK — BY — DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TRIANGULATE / AREAS / AREAS CHECKED — NOTE BOOK — BY — DATE

80 60 40 20 ℄ 20 40 60

250
240
230

RAMP "B" RAMP "A"

16+00

C = 4 ¢
F = 193 ¢

EXC. = 4 C.Y.
EMB. = 390 C.Y. EARTH

250
240
230

RAMP "B" RAMP "A"

15+50

C = 0
F = 228 ¢

EXC. = 8 C.Y.
EMB. = 264 C.Y. EARTH

240
230

RAMP "B" RAMP "A"

52 ¢

15+00

C = 8 ¢
F = 57 ¢

EXC. = 173 C.Y.
EMB. = 64 C.Y. EARTH

250
240
230

14+50

C = 179 ¢
F = 12 ¢

80 60 40 20 ℄ 20 40 60 80

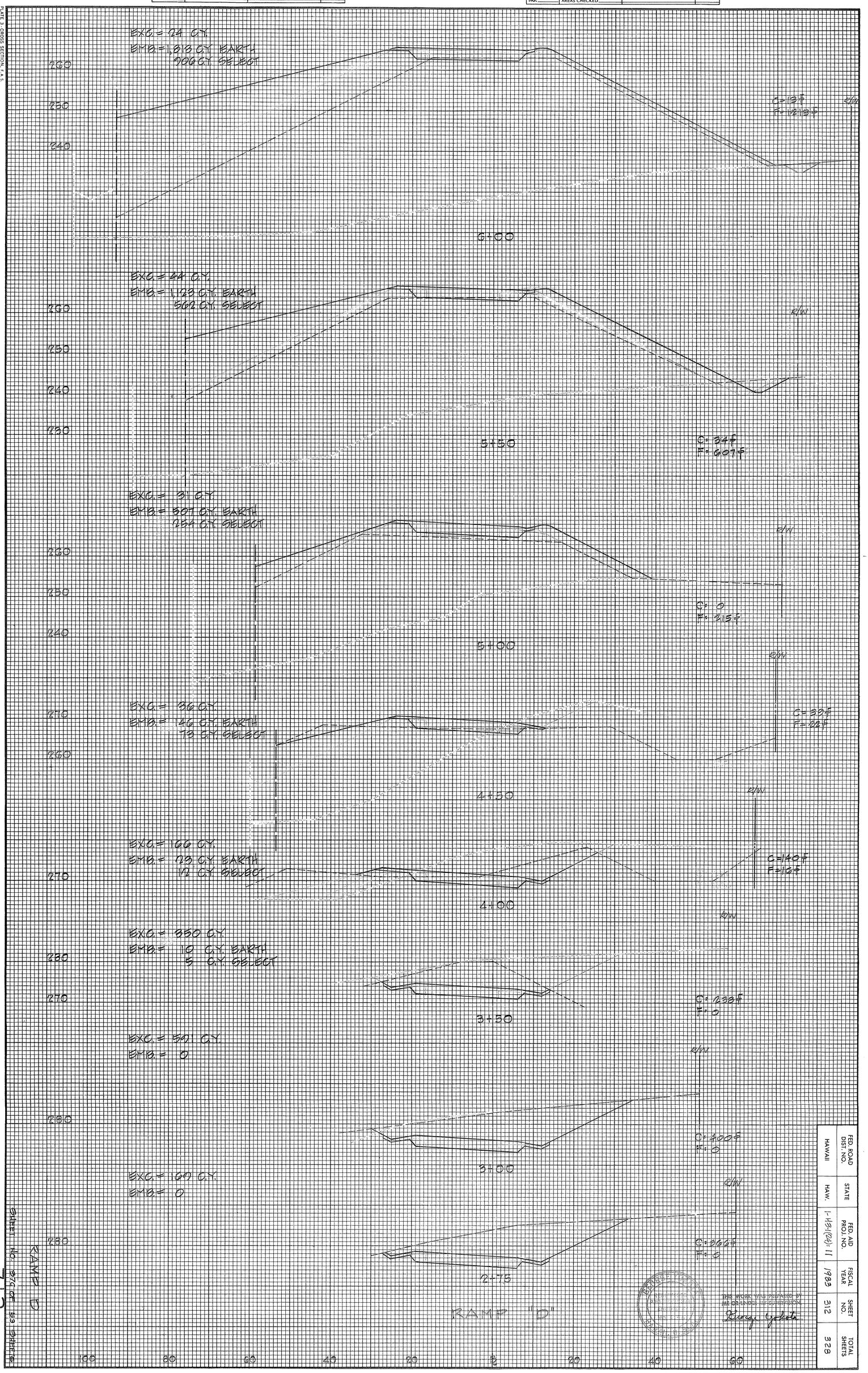
RAMPS "A" & "B"

SHEET NO. 36C OF 53 SHEETS

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

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

PLATE 3 - CROSS SECTION, F.A.S.
GLEANINGS PAPER CO., S.F. CAL.
NO. 1600H-3



THIS MAP WAS PREPARED IN THE BUREAU OF PUBLIC ROADS
Duane Galata

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24)11	1983	312	328

SHEET NO. 312 OF 328 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24): 11	1983	313	328

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

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

KAM

Makai Lines

Mauka Lines

KAM

KAM 2

SHEET NO. 38 OF 53 SHEETS

313

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL.

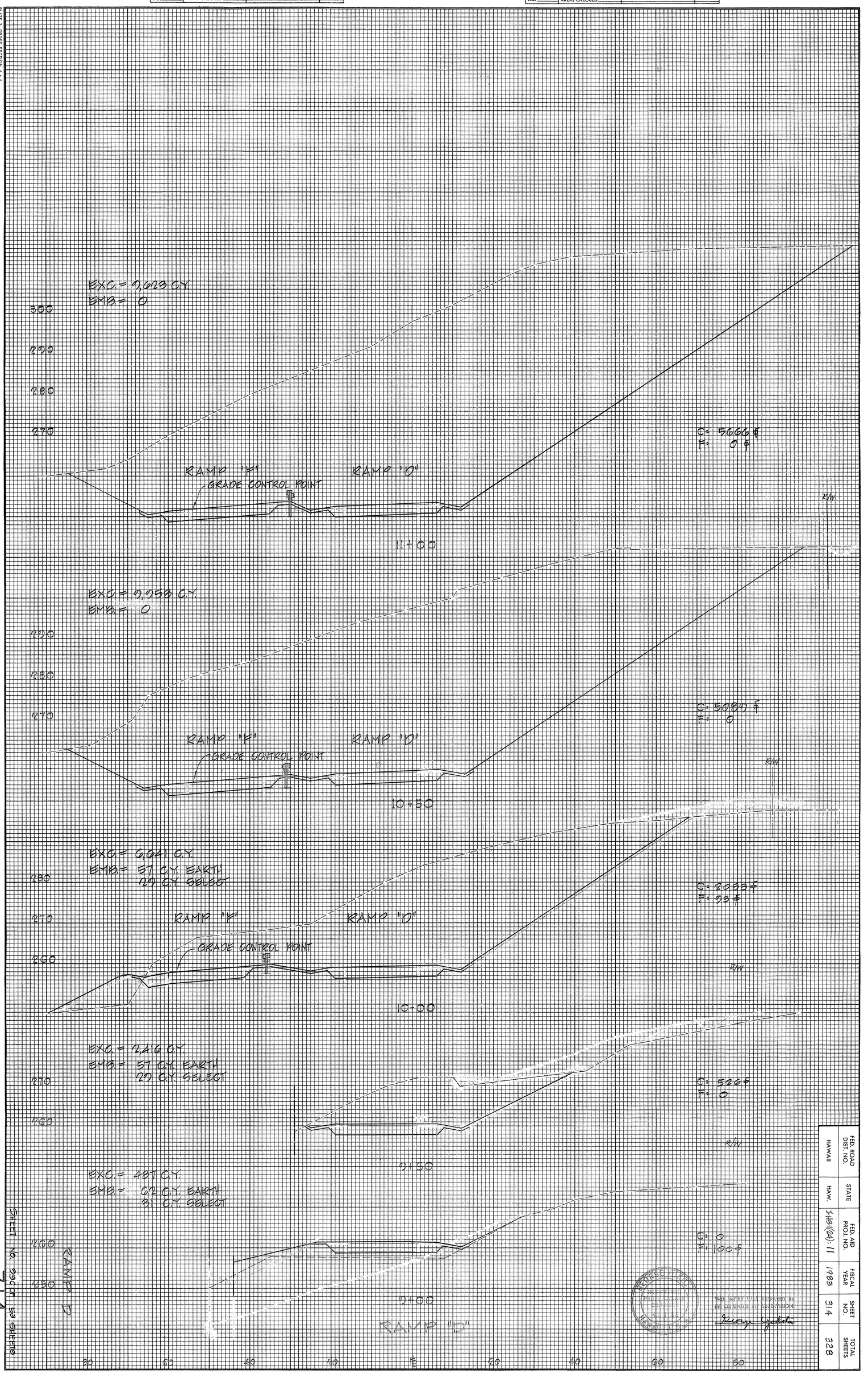
NO. 1000H-3

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

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

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.

NO. 1000H-3



THIS MATERIAL SUPPLIED BY
RECORDED BY SUBCONTRACTOR

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-(CA)-11	1983	314	328

SHEET NO. 314 OF 328 SHEETS

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

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

PLATE 3 CROSS SECTION, F.A.S. CLEARPRINT PAPER CO., S. F. CAL.

NO. 1008R 3

EXC. = 5,767 C.Y.
EMB. = 400 C.Y. EARTH
200 C.Y. SELECT
RAMP "F"

Match line

GRADE CONTROL PT.

RAMP "D"

13+50

EXC. = 6,560 C.Y.
EMB. = 177 C.Y. EARTH
138 C.Y. SELECT

Match line

GRADE CONTROL PT.

RAMP "F"

RAMP "D"

13+00

EXC. = 6,850 C.Y.
EMB. = 103 C.Y. EARTH
51 C.Y. SELECT

RAMP "F"

RAMP "D"

GRADE CONTROL PT.

12+50

EXC. = 7,367 C.Y.
EMB. = 0

RAMP "F"

RAMP "D"

GRADE CONTROL PT.

12+00

EXC. = 8258 C.Y.
EMB. = 0

RAMP "F"

RAMP "D"

GRADE CONTROL PT.

11+50

RAMP "D"

RAMP "F"

C: 9406 ft
E: 882 ft

C: 9036 ft
E: 1666 ft

C: 8765 ft
E: 0

C: 4192 ft
E: 0

C: 4767 ft
E: 0

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HPS-(22): 11	1983	315	328

THIS MAP(S) WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET NO. 40C OF 53 SHEETS

315

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

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

PLATE 3: CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.
NO. 1000-3

RAMP "E"
GRADE CONTROL POINT
RAMP "D"
BLANKET
EXC.= 68 C.Y.
EMB.= 1,420 C.Y. EARTH
715 C.Y. SELECT
BLANKET= 010 C.Y.
17+00
C: 53 ₵
F: 5098 ₵
B: 262 ₵

RAMP "E"
GRADE CONTROL POINT
RAMP "D"
BLANKET
EXC.= 60 C.Y.
EMB.= 1,403 C.Y. EARTH
732 C.Y. SELECT
BLANKET= 0150 C.Y.
16+50
C: 41 ₵
F: 1017 ₵
B: 501 ₵
KW

RAMP "E"
GRADE CONTROL POINT
RAMP "D"
BLANKET
EXC.= 40 C.Y.
EMB.= 1,006 C.Y. EARTH
548 C.Y. SELECT
BLANKET= 551 C.Y.
16+00
C: 33 ₵
F: 1054 ₵
B: 405 ₵
KW

RAMP "E"
GRADE CONTROL POINT
RAMP "D"
BLANKET
EXC.= 40 C.Y.
EMB.= 1,006 C.Y. EARTH
548 C.Y. SELECT
BLANKET= 551 C.Y.
15+50
C: 20 ₵
F: 722 ₵
B: 100 ₵

120 100 80 60 40 20 0 20 40

EXC.= 1217 C.Y.
EMB.= 540 C.Y. EARTH
215 C.Y. SELECT
BLANKET= 1104 C.Y.
KW
C: 214 ₵
F: 1168 ₵
B: 12 ₵

RAMP "E"
GRADE CONTROL POINT
RAMP "D"
BLANKET
5+00

EXC.= 1,661 C.Y.
EMB.= 450 C.Y. EARTH
226 C.Y. SELECT
BLANKET= 55 C.Y.
KW
C: 1580 ₵
F: 564 ₵
B: 47 ₵

RAMP "E"
GRADE CONTROL PT.
240
Match Line
230
BLANKET
RAMP "E"
GRADE CONTROL PT.
RAMP "D"
Match Line
4+50

EXC.= 4,057 C.Y.
EMB.= 592 C.Y. EARTH
201 C.Y. SELECT
BLANKET= 44 C.Y.
KW
C: 0802 ₵
F: 870 ₵

RAMP "E"
GRADE CONTROL PT.
240
Match Line
230
RAMP "E"
GRADE CONTROL PT.
RAMP "D"
Match Line
14+00
RAMP "D"

60 40 20 0 20 40 60 80 100

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HSR-1(24)-11	1983	316	328

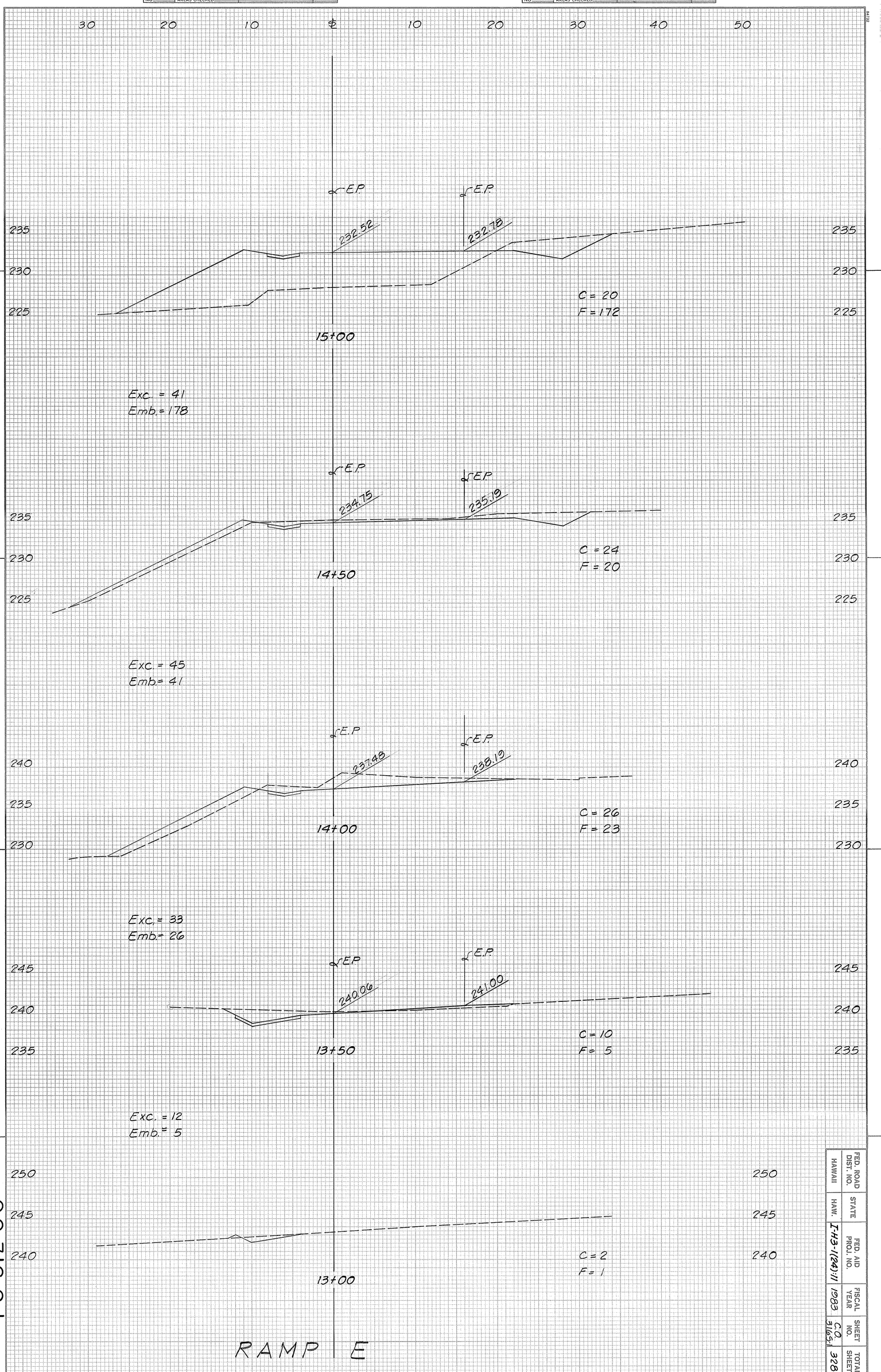
RECOMMENDED FOR APPROVAL
DATE
FEDERAL HIGHWAY ADMINISTRATOR
THIS PLAN WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION
Ronald Yoshida

SHEET NO. 4 OF 33 SHEETS
RAMP D

316

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

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



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24)11	1983	C.O. 316-1	328

C.O. 316 S-1

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

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

30 20 10 ℄ 10 20 30 40 50

235
230
225

17+50

C = 0
F = 0

Exc. = 0
Emb. = 158

℄E.P. 228.98 ℄E.P. 229.22

230
225
220

17+00

C = 0
F = 171

Exc. = 0
Emb. = 337

℄E.P. 229.06 ℄E.P. 229.30

230
225
220

16+50

C = 0
F = 193

Exc. = 0
Emb. = 410

℄E.P. 229.67 ℄E.P. 229.91

230
225
220

16+00

C = 0
F = 250

Exc. = 0
Emb. = 460

℄E.P. 230.83 ℄E.P. 231.07

235
230
225

15+50

C = 0
F = 247

Exc. = 19
Emb. = 388

30 20 10 ℄ 10 20 30 40 50

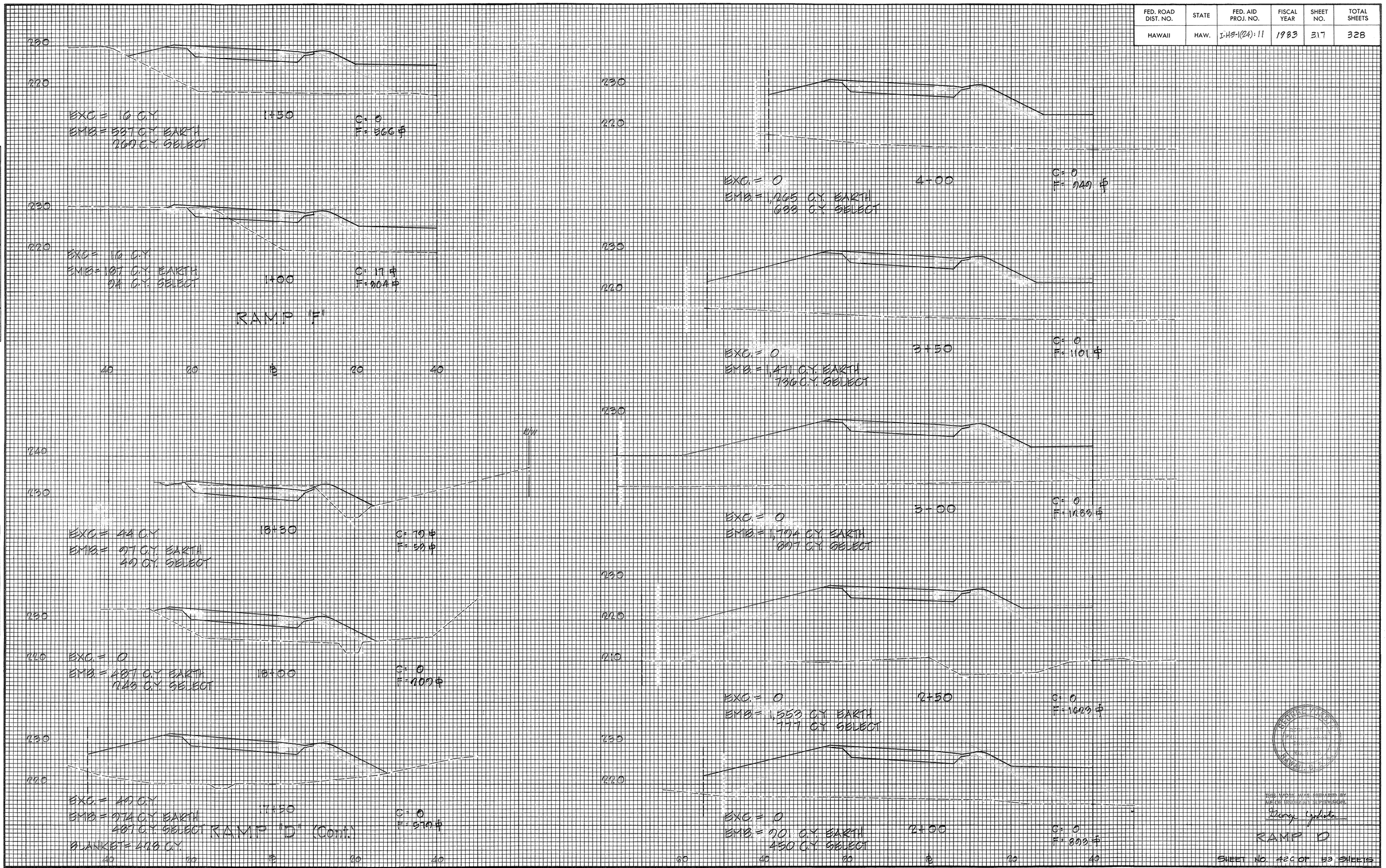
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24)H	1983	C.O. 316-S-1	328

C.O. 316 S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	317	328

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Darryl Yukuta

PLATE 3-CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

317

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24): 11	1983	318	328

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

EXC. = 0
EMB. = 5,401 C.Y. EARTH
0,745 C.Y. SELECT

EXC. = 0
EMB. = 2,093 C.Y. EARTH
1,409 C.Y. SELECT

0+50

C=0
F=3640 ℄

EXC. = 0
EMB. = 1,161 C.Y. EARTH
580 C.Y. SELECT

0+00

C=0
F=1109 ℄

EXC. = 0
EMB. = 424 C.Y. EARTH
116 C.Y. SELECT

0+83

C=0
F=687 ℄

BREAK

EXC. = 0
EMB. = 1949 C.Y. EARTH
174 C.Y. SELECT

EXC. = 0
EMB. = 934 C.Y. EARTH
467 C.Y. SELECT

4+50

C=0
F=564 ℄

RAMP "F"

Match Line

Match Line

Match Line

Match Line

EXC. = 0
EMB. = 7,745 C.Y. EARTH
3,873 C.Y. SELECT

10+50

C=0
F=7,203 ℄

10+00

C=0
F=5255 ℄

RAMP F

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Barry Lynch

SHEET NO. 430 OF 53 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

318

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	319	328

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

60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

270
260
250
240

BRIDGE SURCHARGE

11+50

EXC. = 0
EMB = 9,757 C.Y. EARTH
1,878 C.Y. SELECT
SURCHARGE = 31 C.Y.
REMOVAL OF SURCHARGE=25 C.Y.

C = 100 ft
T = 2.16 ft
C = 0

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

270
260
250
240

11+00

EXC. = 0
EMB = 6,0025 C.Y. EARTH
3,460 C.Y. SELECT

RAMP "F"

F = 100.45 ft
C = 0

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Diony Yokota

RAMP F

SHEET NO. 44 C OF 53 SHEETS

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24): 11	1983	320	328

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 20 0 20 40 60 80 100 120 140 160 180 200

BRIDGE SURCHARGE

EXC. = 0
EMB. = 1204 C.Y. EARTH

SURCHARGE = 990 C.Y.
REMOVAL OF SURCHARGE = 664 C.Y.

270
260
250
240
230
220

12-50

C= 0
F= 1,000 ±
S= 896 ±

EXC. = 0
EMB = 2384 C.Y. EARTH

SURCHARGE = 1758 C.Y.
REMOVAL OF SURCHARGE = 1406 C.Y.

BRIDGE SURCHARGE

210
200
190
180
170
160

12-00

C= 0
F= 1,275 ±
S= 1,009 ±

EXC. = 0
EMB = 11800 C.Y. EARTH
201 C.Y. SELECT

SURCHARGE = 1060 C.Y.
REMOVAL OF SURCHARGE = 767 C.Y.

RAMP "F"

40 20 0 20 40 60 80 100 120 140 160 180 200 220

HAWAII DEPARTMENT OF TRANSPORTATION
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 5554
STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Ryuji Uyehara

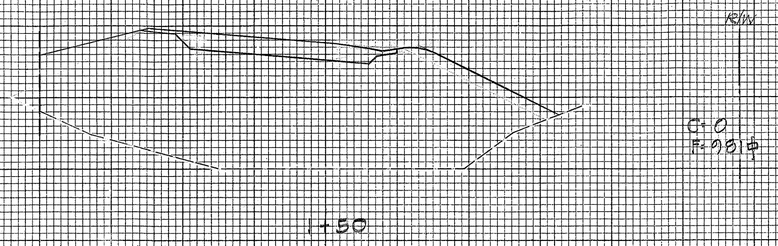
RAMP F
SHEET NO. 45C OF 93 SHEETS

320

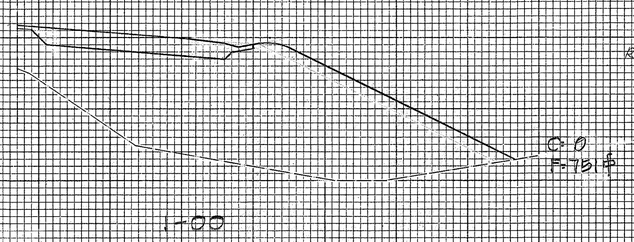
PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(124): 11	1983	321	328

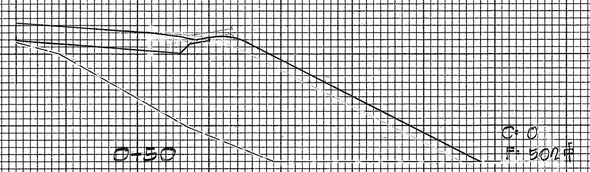
EXC.= 0
EMB.=1082 C.Y. EARTH



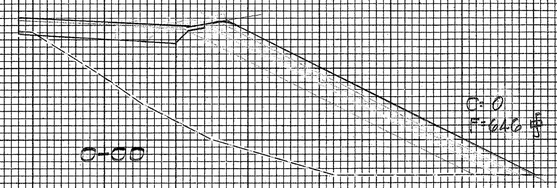
EXC.= 0
EMB.=1604 C.Y. EARTH



EXC.= 0
EMB.=1160 C.Y. EARTH

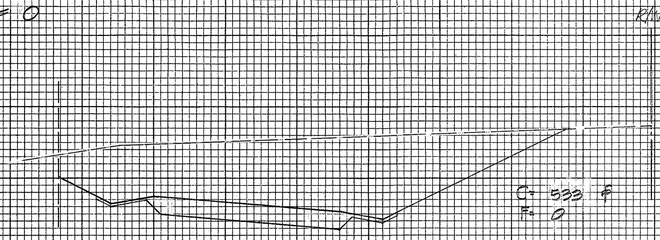


EXC.= 0
EMB.=1063 C.Y. EARTH

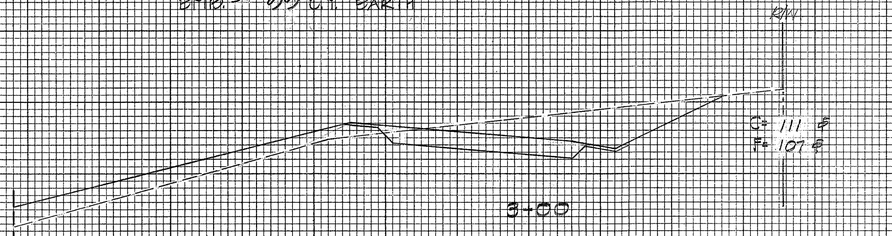


RAMPS "G" & "H"

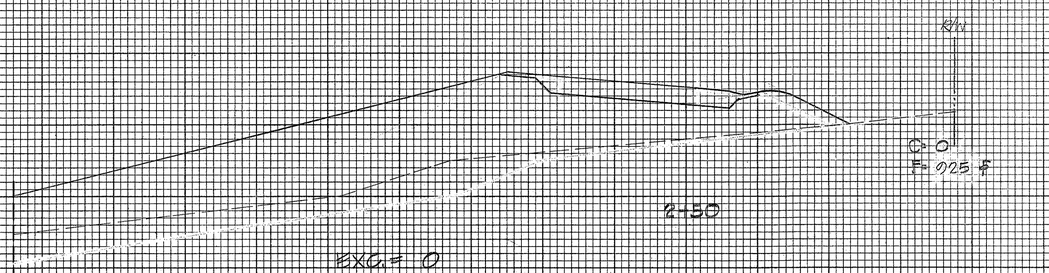
EXC.= 240 C.Y.
EMB.= 0



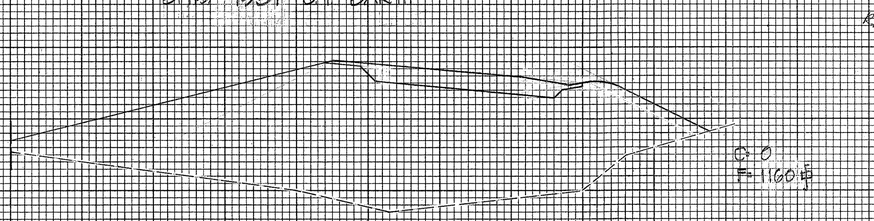
EXC.= 506 C.Y.
EMB.= 00 C.Y. EARTH



EXC.= 103 C.Y.
EMB.= 050 C.Y. EARTH



EXC.= 0
EMB.=1031 C.Y. EARTH



RAMPS G & H

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Irving Yokoi

SHEET NO. 46 OF 153 SHEETS

321

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

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24): 11	1983	322	328

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

EXC.= 150 C.Y.
EMB.= 0244 C.Y. EARTH

270
260
250

C = 0
F = 1471 ft

R/W

5+50

EXC.= 0
EMB.= 1016 C.Y. EARTH

270
260
250

5+00

C = 0
F = 274 ft

R/W

EXC.= 400 C.Y.
EMB.= 0254 C.Y. EARTH

270
260
250

C = 430 ft
F = 0

R/W

4+50

EXC.= 856 C.Y.
EMB.= 0

270
260

R/W

C = 1926 ft
F = 0

4+00

RAMPS "G" & "H"

60 40 20 0 20 40 60

7+00

270
260
250
240
230

C = 41 ft
F = 1060 ft

EXC.= 140 C.Y.
EMB.= 1150 C.Y. EARTH

6+50

260
250
240
230

C = 117 ft
F = 1824 ft

EXC.= 1261 C.Y.
EMB.= 1051 C.Y. EARTH

6+00

270
260
250
240
230

C = 1651 ft
F = 3504 ft

RAMPS G & H

R/W

60 40 20 0 20 40 60

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Dwight Yoshioka
REGISTERED PROFESSIONAL ENGINEER
No. 7154
STATE OF HAWAII

SHEET NO. 47 OF 53 SHEETS

322

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):11	1983	323	328

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

EXC. = 71 C.Y.
EMB. = 2123 C.Y. EARTH

250
240
230

1+50

C: 0
F: 1343 ft

EXC. = 0
EMB. = 1035 C.Y. EARTH

260
250
240

1+00

C: 0
F: 747 ft

EXC. = 37 C.Y.
EMB. = 716 C.Y. EARTH

270
260
250
240

0+50

C: 40 ft
F: 20 ft

EXC. = 736 C.Y.
EMB. = 1250 C.Y. EARTH

280
270
260

0+00

C: 615 ft
F: 1 ft

SERVICE ROAD

EXC. = 270 C.Y.
EMB. = 500 C.Y. EARTH

250
240

3+50

C: 255 ft
F: 305 ft

EXC. = 377 C.Y.
EMB. = 535 C.Y. EARTH

250
240

3+00

C: 172 ft
F: 183 ft

EXC. = 424 C.Y.
EMB. = 619 C.Y. EARTH

250
240

2+50

C: 59 ft
F: 426 ft

EXC. = 126 C.Y.
EMB. = 13300 C.Y. EARTH

250
240

2+00

C: 77 ft
F: 950 ft

THIS PLAN WAS PREPARED BY ME OR UNDER MY SUPERVISION
Wayne Yokota

SERVICE ROAD
SHEET NO. 48C OF 53 SHEETS

60 40 20 0 20 40 60 80

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

323

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24): 11	1983	324	328

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

EXC. = 0
EMB. = 1084 C.Y. EARTH

C = 0
F = 1712 ℄

EXC. = 0
EMB. = 5423 C.Y. EARTH 5+50

C = 0
F = 1085 ℄

EXC. = 0
EMB. = 6462 C.Y. EARTH 5+00

C = 0
F = 1755 ℄

EXC. = 550 C.Y.
EMB. = 6750 C.Y. EARTH 4+50

C = 57 ℄
F = 1235 ℄

4+00

SERVICE ROAD AND RAMP "C"

RAMP "C"

GRADE CONTROL POINT

SERVICE ROAD

C = 0
F = 1518 ℄
B = 155 ℄
D = 77 ℄

EXC. = 0
EMB. = 2680 C.Y. EARTH 7+50

BLANKET = 11 C.Y.
RAMP "C"

GRADE CONTROL POINT

SERVICE ROAD

C = 0
F = 1316 ℄
B = 120 ℄

EXC. = 0
EMB. = 2252 C.Y. EARTH 7+00

C = 0
F = 1116 ℄

EXC. = 0
EMB. = 2282 C.Y. EARTH 6+50

C = 0
F = 1340 ℄

6+00

SERVICE RD & RAMP C

THIS MAP WAS PREPARED BY ME OR UNDER MY SUPERVISION.

NO. 1156

SHEET NO. 49 OF 53 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

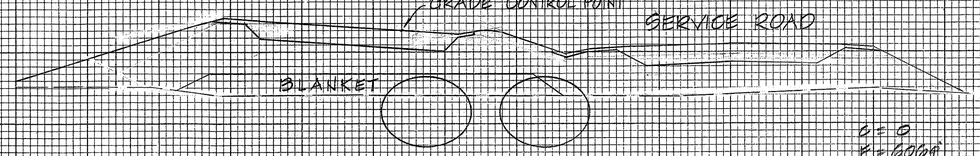
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(124):11	1983	325	328

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

EXC. = 0
EMB = 1231 C.Y. EARTH

BLANKET = 949 C.Y.

RAMP "C"

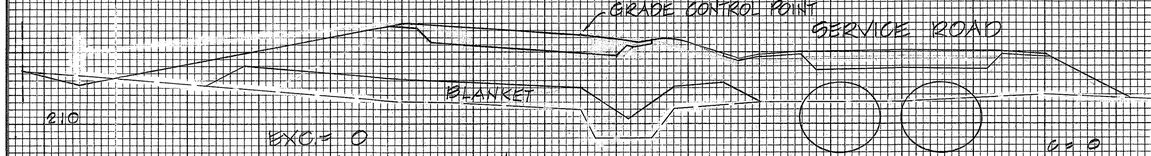


C = 0
F = 6069 #
B = 143 #

EXC. = 0
EMB = 1155 C.Y. EARTH

BLANKET = 853 C.Y.

RAMP "C"

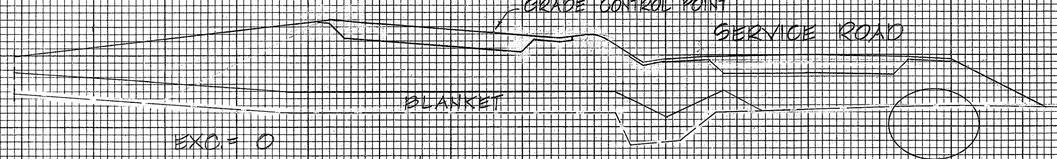


C = 0
F = 640 #
B = 638 #

EXC. = 0
EMB = 1556 C.Y. EARTH

BLANKET = 521 C.Y.

RAMP "C"

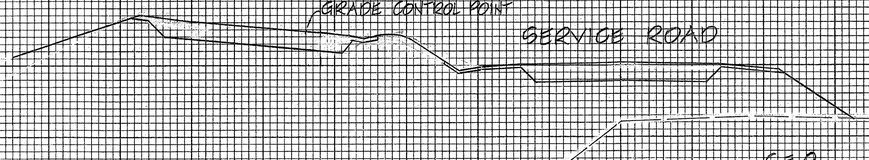


C = 0
F = 323 #
B = 305 #

EXC. = 0
EMB = 1170 C.Y. EARTH

BLANKET = 301 C.Y.

RAMP "C"



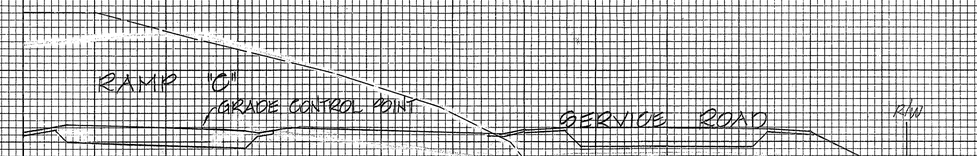
C = 0
F = 1530 #

EXC. = 0
EMB = 2878 C.Y. EARTH

SERVICE ROAD AND RAMP "C"

EXC. = 1244 C.Y.
EMB = 430 C.Y. EARTH

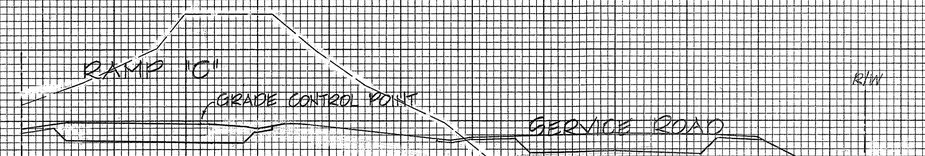
RAMP "C"



C = 726 #
F = 251 #

EXC. = 1466 C.Y.
EMB = 407 C.Y. EARTH

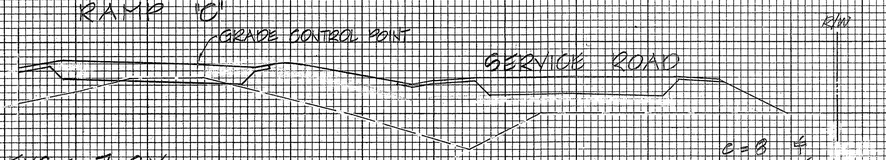
RAMP "C"



C = 641 #
F = 286 #

EXC. = 601 C.Y.
EMB = 605 C.Y. EARTH

RAMP "C"

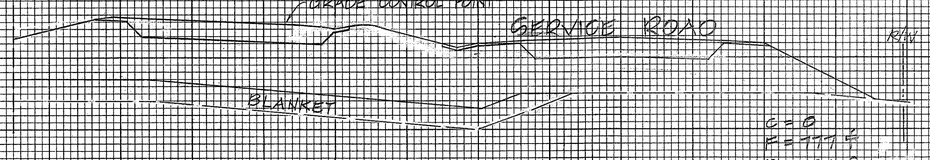


C = 8 #
F = 567 #

EXC. = 7 C.Y.
EMB = 1050 C.Y. EARTH

BLANKET = 210 C.Y.

RAMP "C"



C = 0
F = 177 #
B = 127 #

SERVICE RD. & RAMP C

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Ronald Yoshida

SHEET NO. 50 OF 53 SHEETS

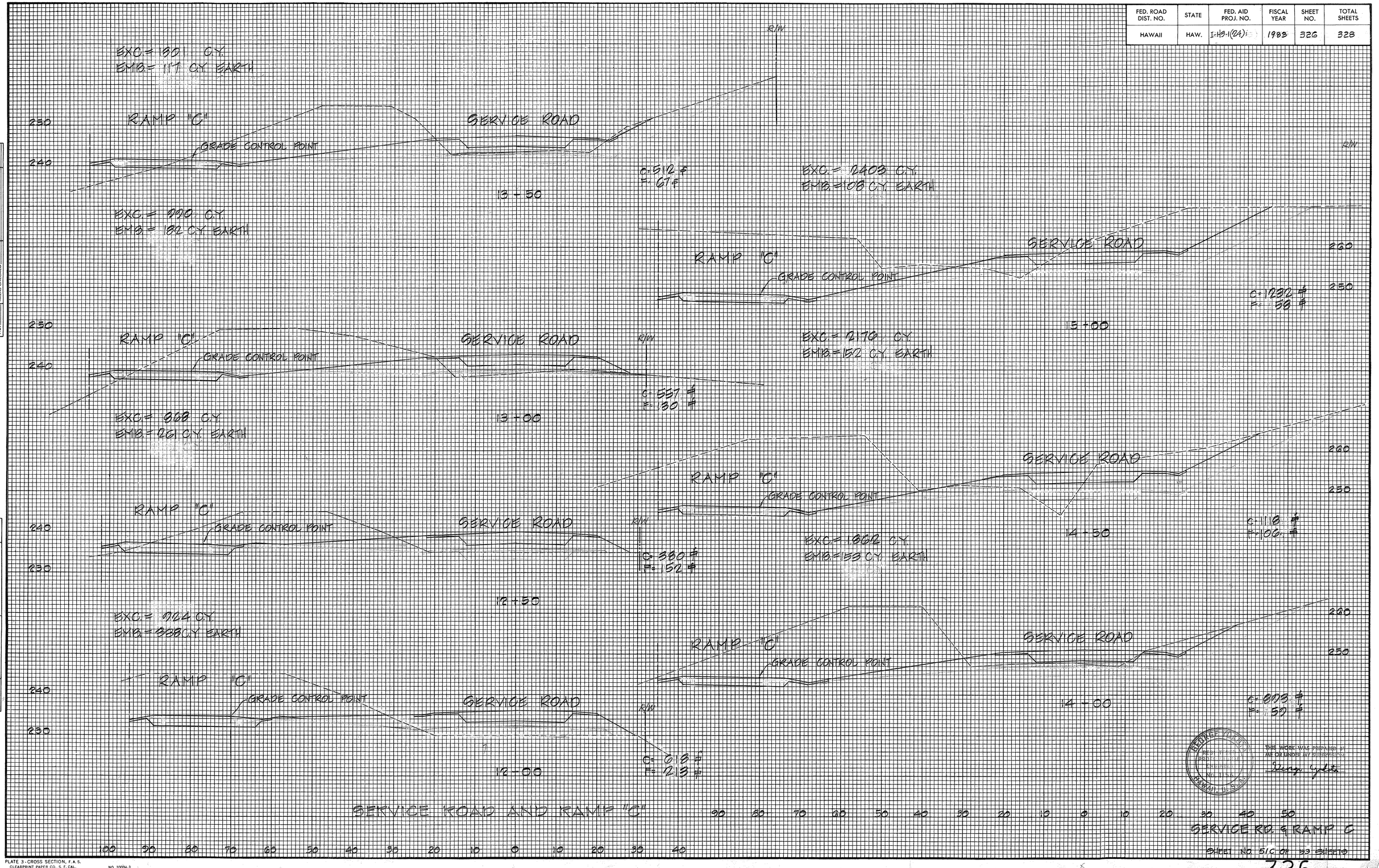
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

PLATE 3 - CROSS SECTION, F. A. S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):	1983	326	328

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



GEORGE YUEN — REGISTERED PROFESSIONAL ENGINEER — HAWAII

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George Yuen

SHEET NO 51C OF 93 SHEETS

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):	1983	327	328

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

270
260
250

17+00

EXC.=142 C.Y.
EMB.=157 C.Y. EARTH

RAMP "C"

GRADE CONTROL

16+50

C=142 SF
F=170 SF

EXC.=2467 C.Y.
EMB.=1020 C.Y. EARTH

RAMP "C"

GRADE CONTROL POINT

16+00

C=1243 SF
F=111 SF

EXC.=2413 C.Y.
EMB.=120 C.Y. EARTH

RAMP "C"

GRADE CONTROL POINT

SERVICE ROAD

15+50

C=3663 SF
F=53 SF

SERVICE ROAD AND RAMP "C"

R/W

270

18+50

18+00

17+50

20+00

19+50

19+00

SERVICE RD. & RAMP C

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 20 10 0 10 20

PLATE 3. CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

SHEET NO. 326 OF 328 SHEETS

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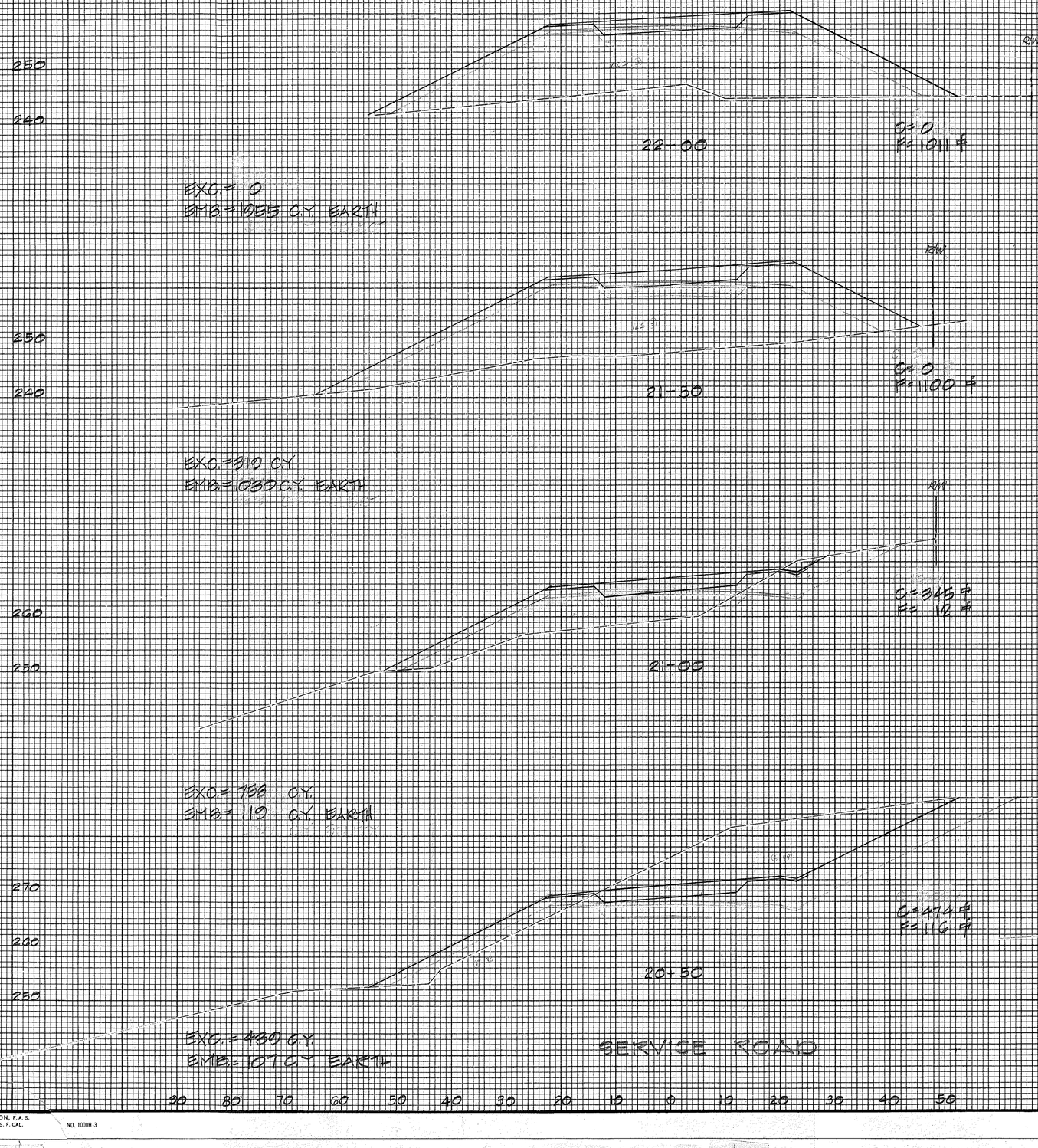
Barry Yokota

327

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HB-1(24):	1983	328	328

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

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



GEORGE VIDA
REGISTERED PROFESSIONAL ENGINEER
NO. 7155
HONOLULU, HI

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SHEET NO. 53 OF 53 SHEETS

PLATE 3-CROSS SECTION, F.A.S. NO. 1000H-3
CLEARPRINT PAPER CO., S. F. CAL.