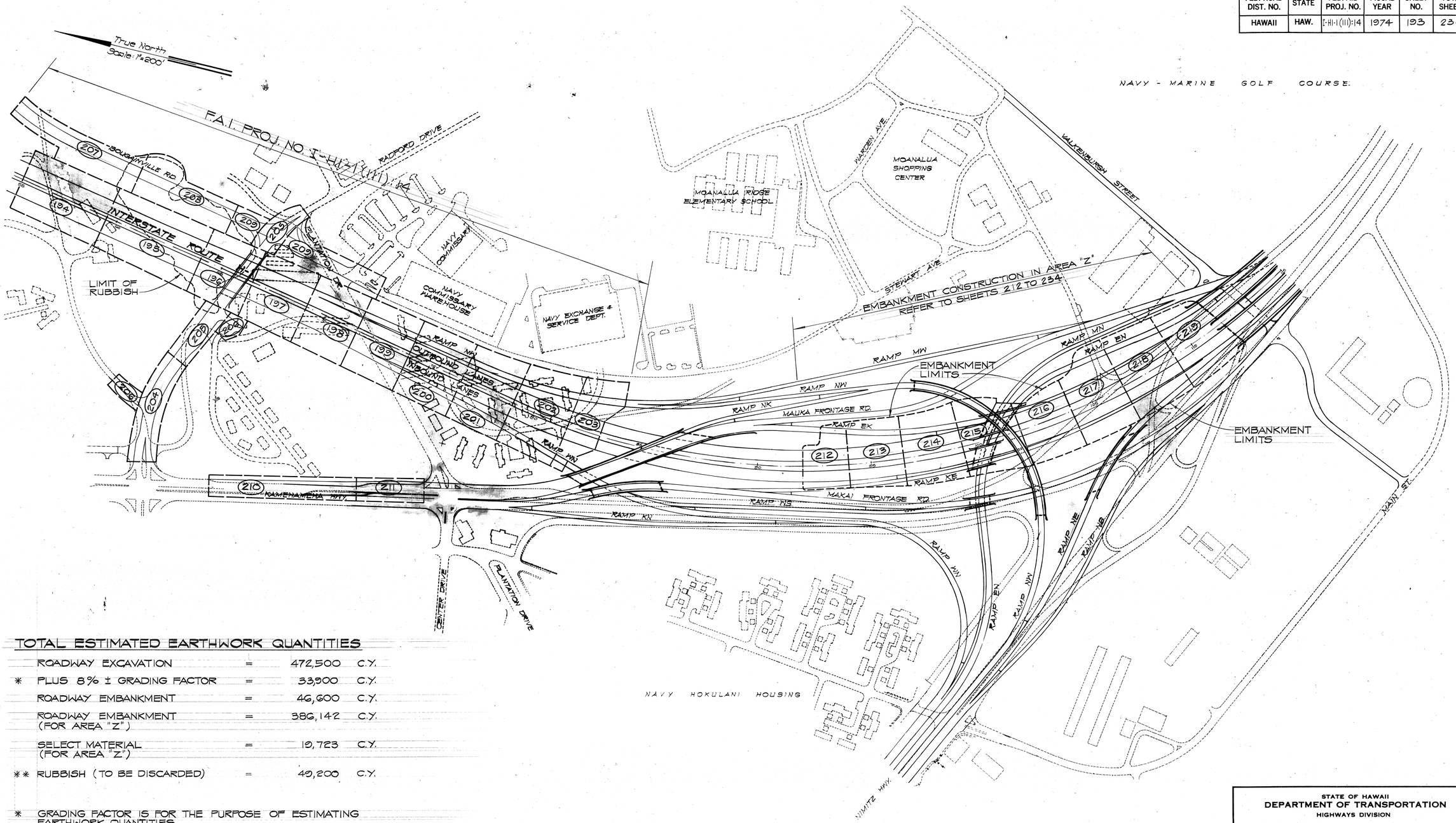
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(III):14	1974	193	234



TOTAL ESTIMATED EARTHWORK QUANTITIES

	ROADWAY EXCAVATION	=	472,500	C.Y.
*	PLUS 8% ± GRADING FACTOR	=	33,900	C.Y.
	ROADWAY EMBANKMENT	=	46,600	C.Y.
	ROADWAY EMBANKMENT (FOR AREA "Z")	=	386,142	C.Y.
	SELECT MATERIAL (FOR AREA "Z")	=	10,723	C.Y.
**	RUBBISH (TO BE DISCARDED)	=	40,200	C.Y.

* GRADING FACTOR IS FOR THE PURPOSE OF ESTIMATING EARTHWORK QUANTITIES

** INCLUDED WITH ROADWAY EXCAVATION QUANTITY

PLAN
SCALE: 1" = 200'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	"
No.	TRACED BY	"
	DESIGN BY	"
	QUANTITIES BY	"
	CHECKED BY	"

GEORGE Y. ASATO — REGISTERED PROFESSIONAL ENGINEER — No. 2088 — HAWAII, U.S.A.

WILBERT T. TAKAHIJA — REGISTERED PROFESSIONAL ENGINEER — No. 1684 — HAWAII, U.S.A.

Wilbert T. Takahija

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

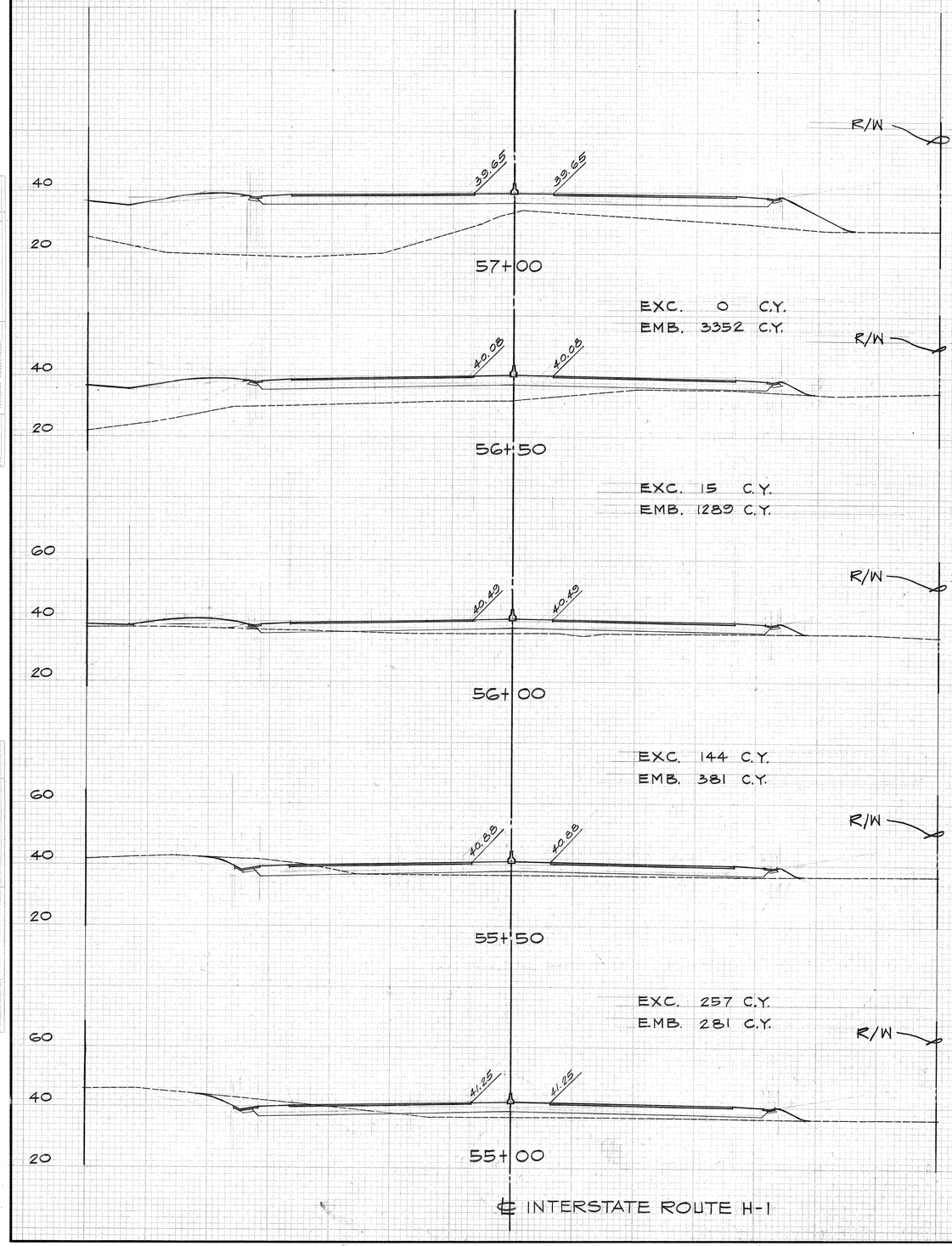
INDEX TO CROSS SECTIONS AND EARTHWORK QUANTITIES

PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(III):14

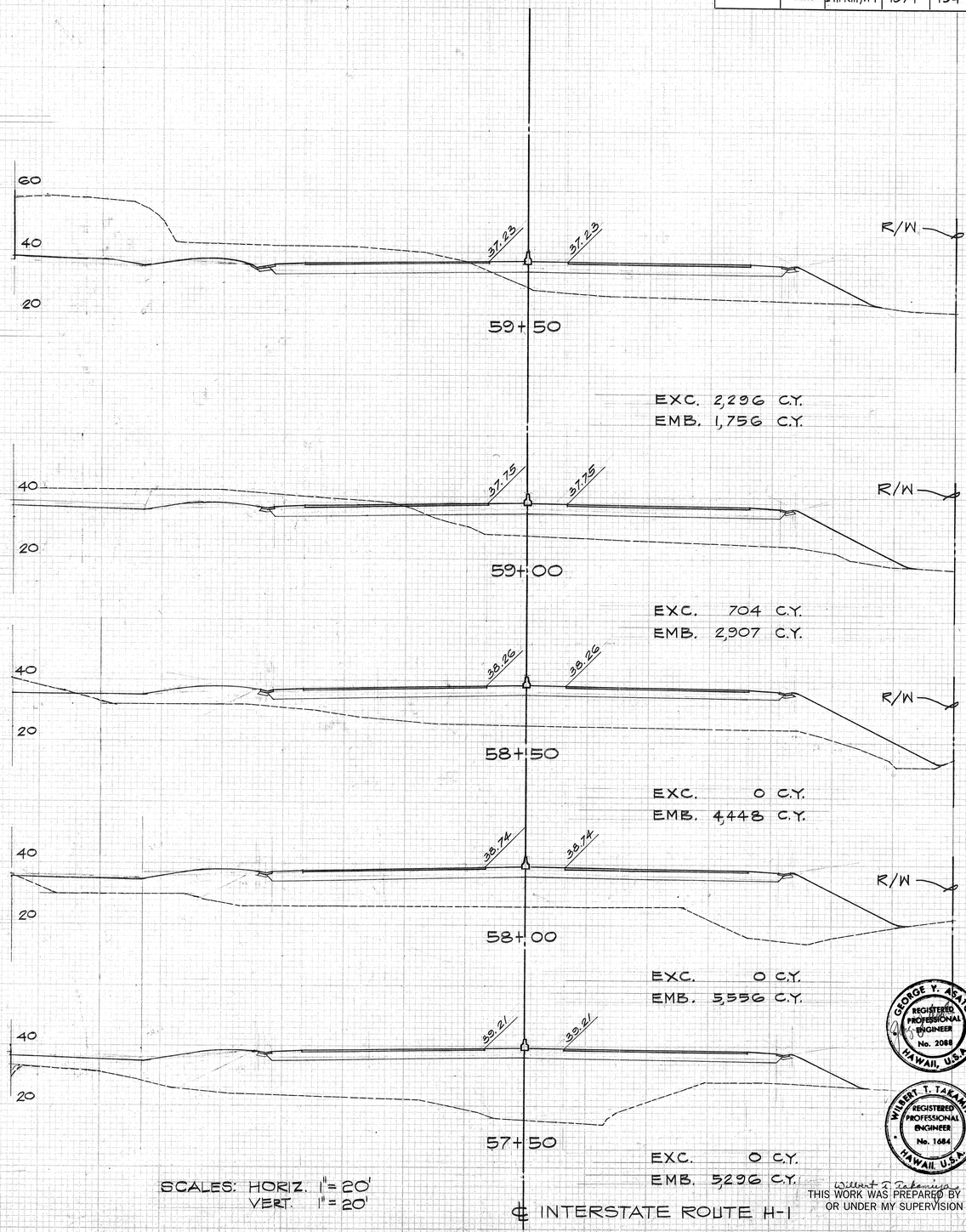
SCALE: AS SHOWN DATE: DEC. 14, 1973

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-I(III):14	1974	134	234



℄ INTERSTATE ROUTE H-1



℄ INTERSTATE ROUTE H-1

SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

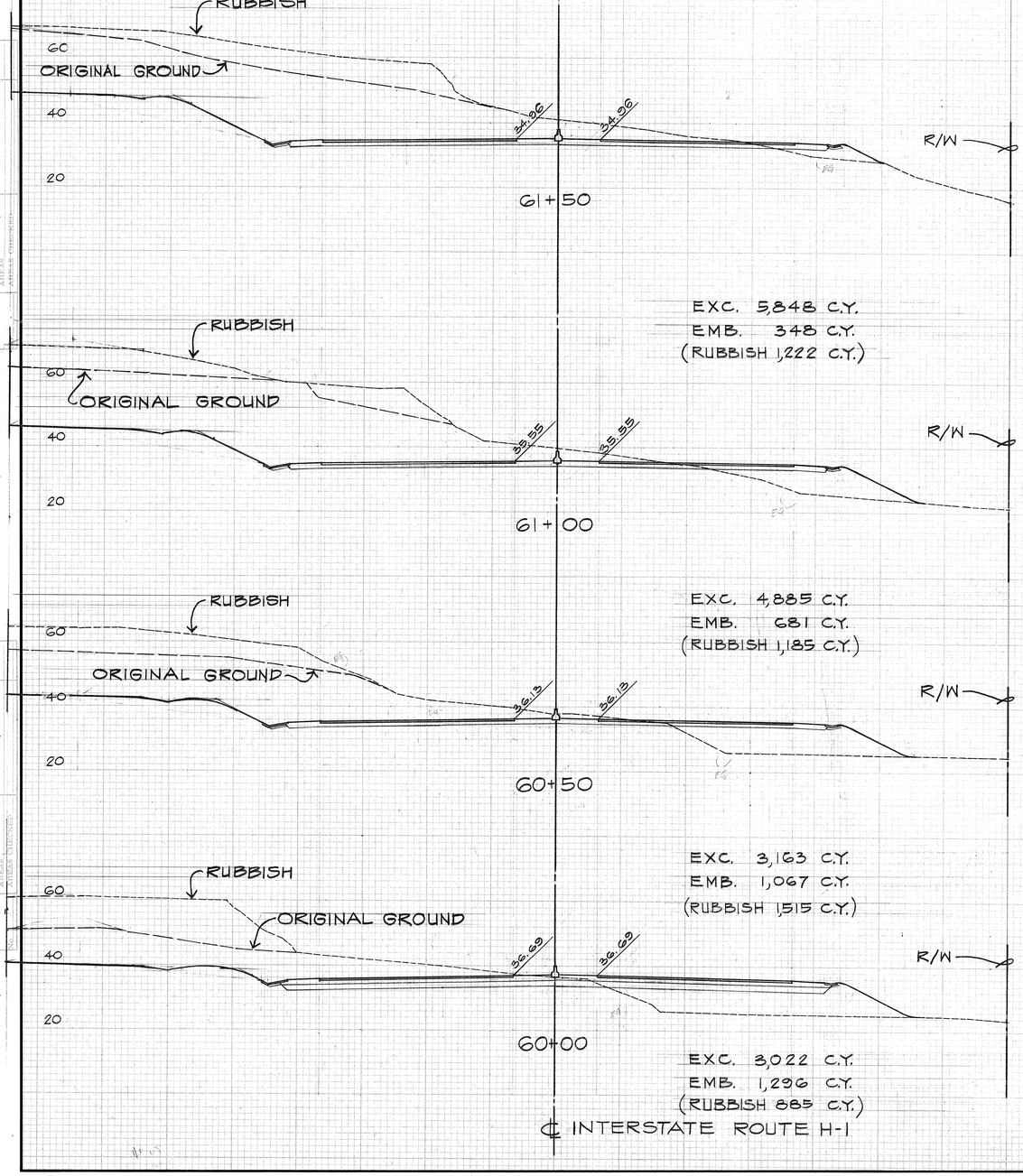
Wilbert T. Takamiya

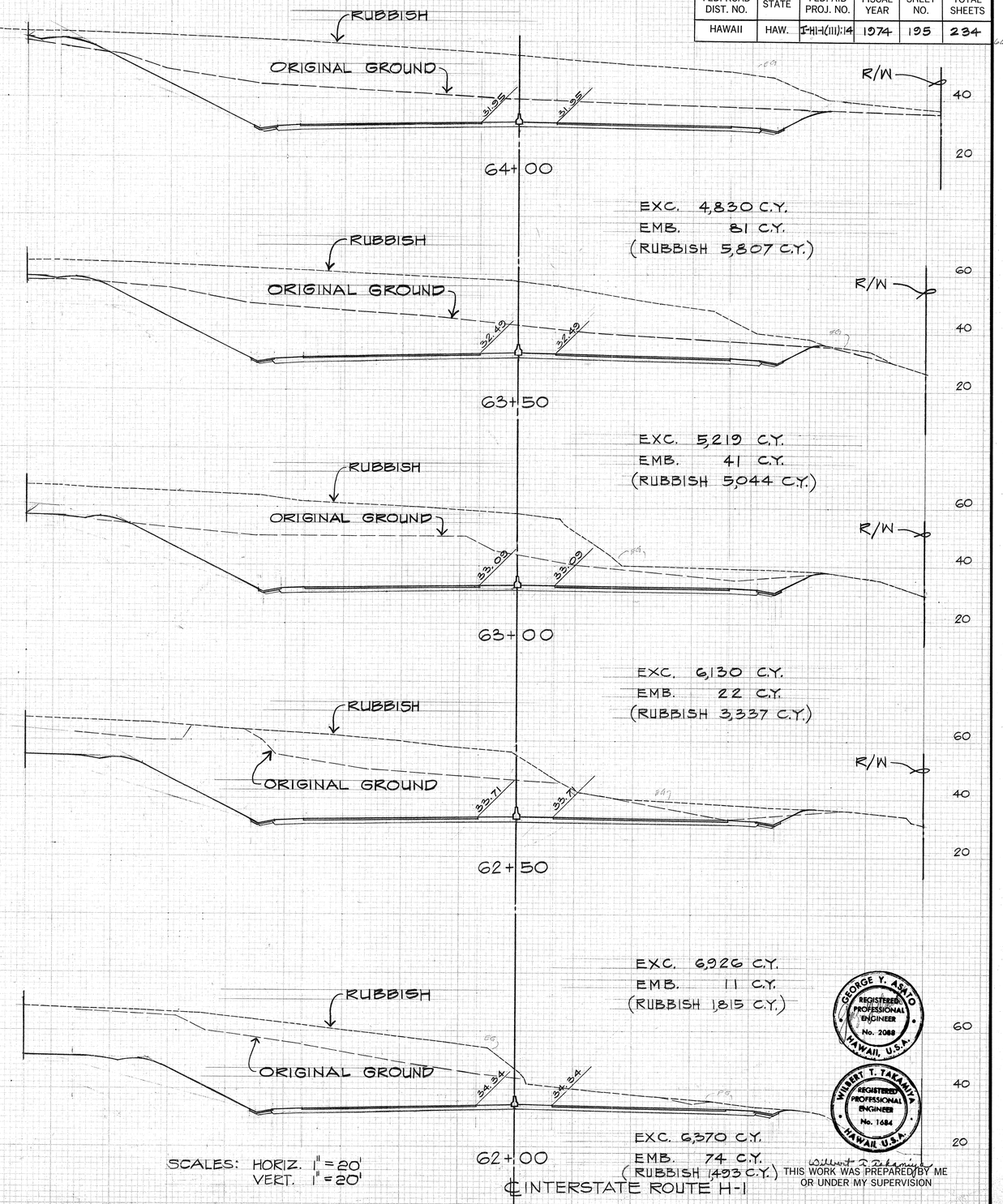
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

FINAL SURVEY
SURVEYED
PLOTTED
FIELD NOTE BOOK
AREAS
AREAS CHECKED
No.
DATE
BY

ORIGINAL SURVEY
SURVEYED
PLOTTED
FIELD NOTE BOOK
AREAS
AREAS CHECKED
No.
DATE
BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-H(III):14	1974	195	234





SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

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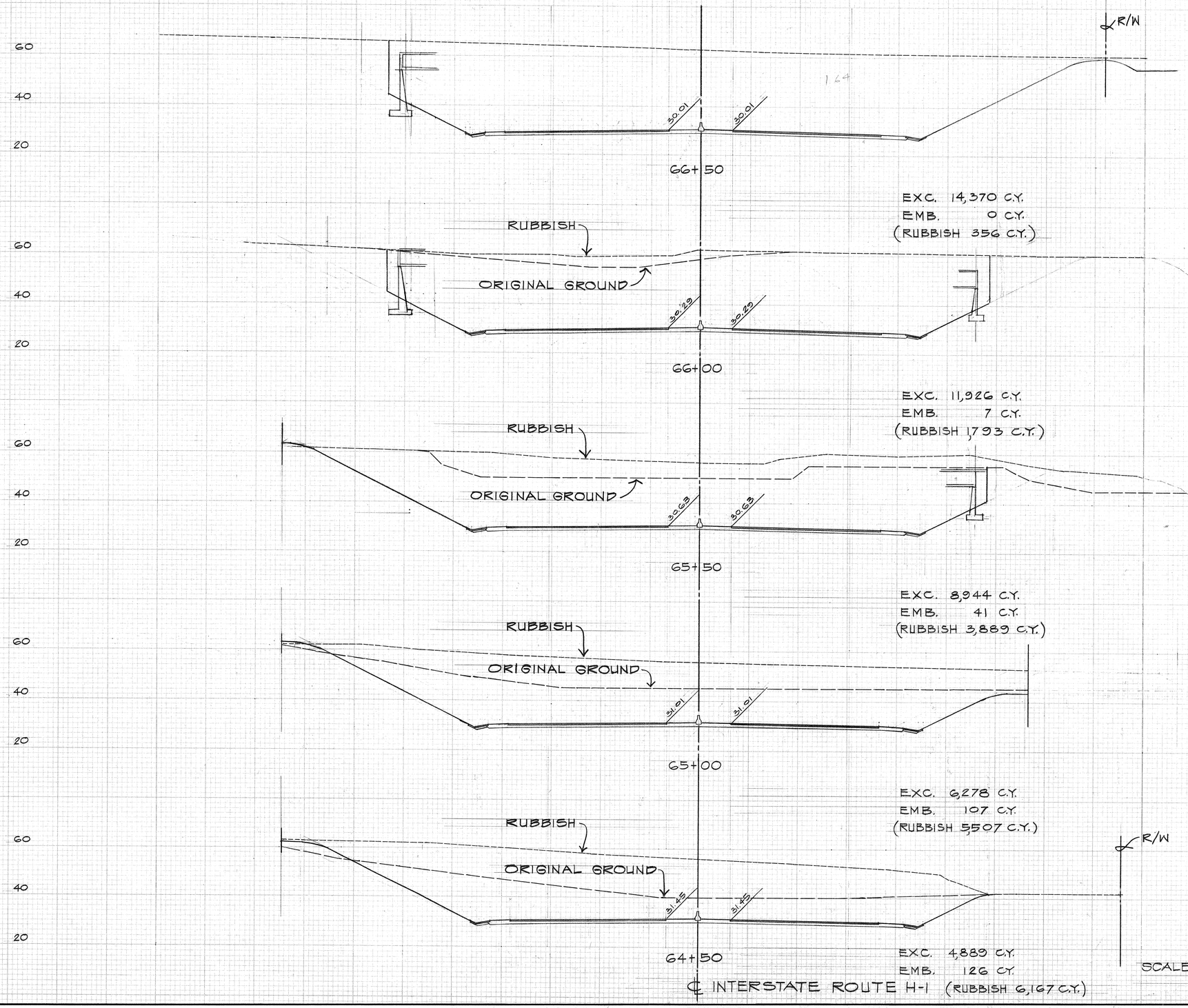
FINAL SURVEY — ORIGINAL SURVEY
DATE / BY / SURVEYED / PLOTTED / TEMPLATE / AREAS / CHECKED / NOTE BOOK / REMARKS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(111);14	1974	196	234



SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAHIRA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

Wilbert T. Takahira

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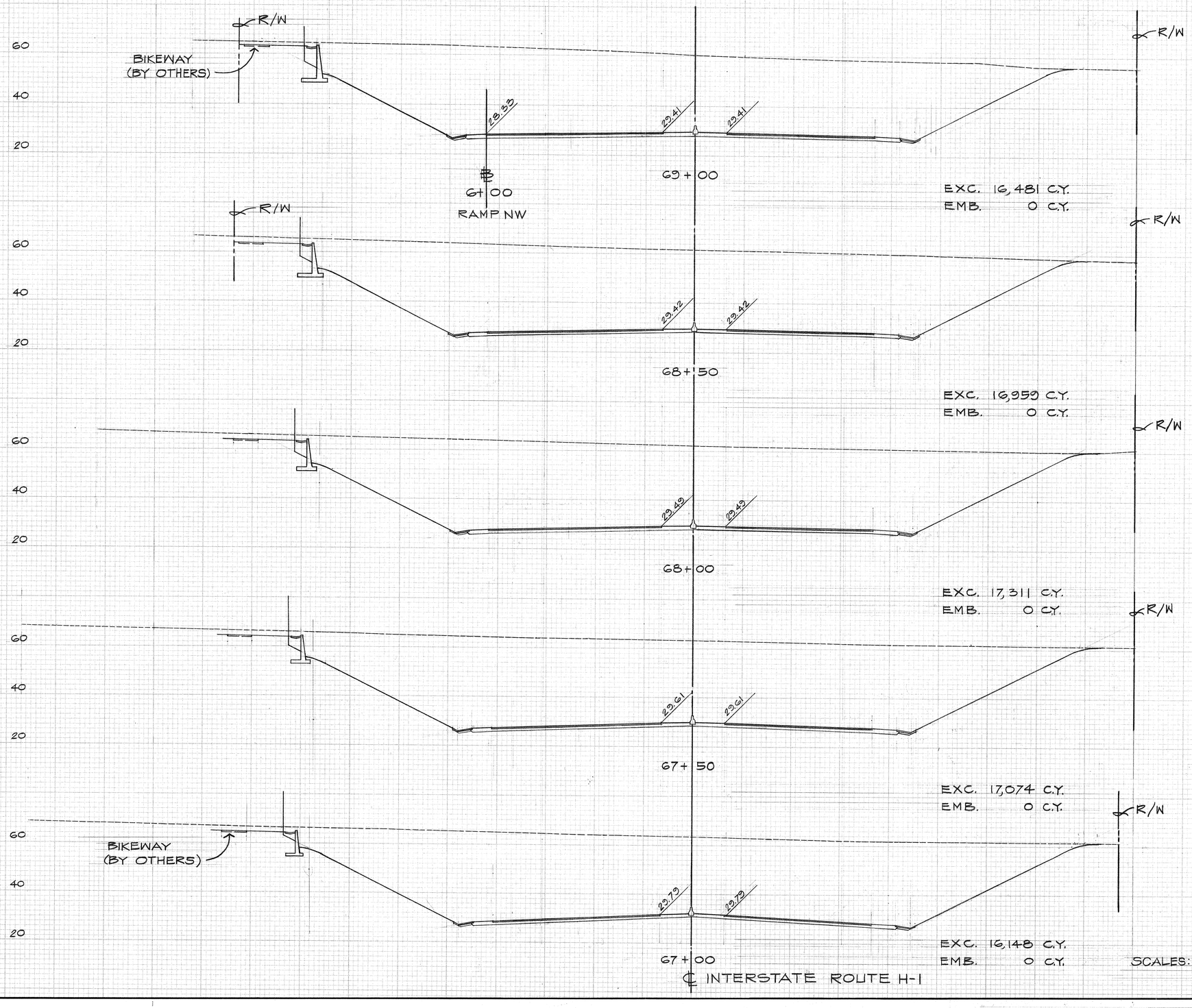
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(111):14	1974	197	234



SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

Wilbert T. Takamiya
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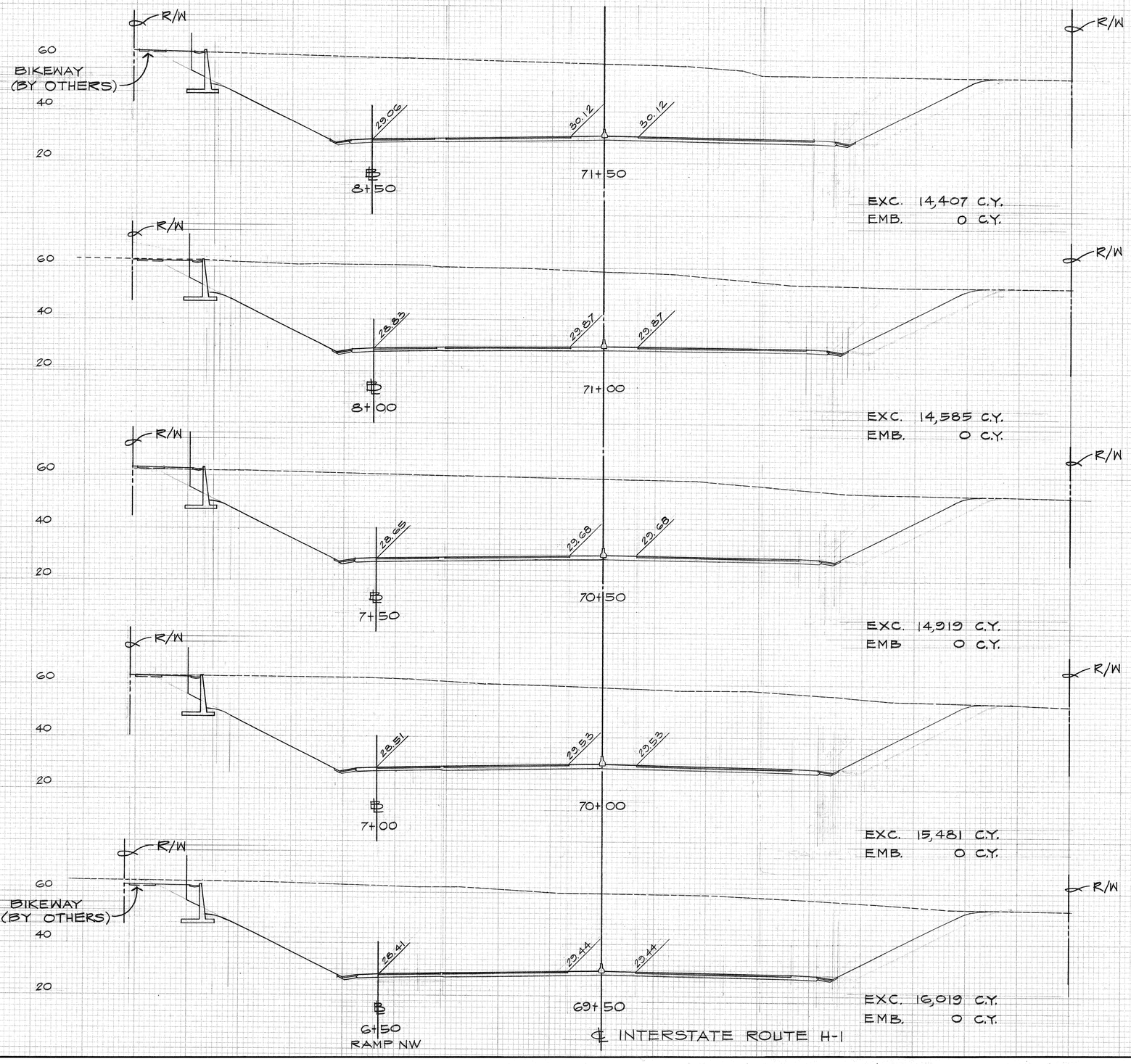
SHEET NO. 4 OF 18 SHEETS

197

FINAL SURVEY — NOTES BOOK — No. — BY — DATE
ORIGINAL SURVEY — NOTES BOOK — No. — BY — DATE
PROJECTED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11);14	1974	198	234



SCALES: HORIZ. 1" = 20'
VERT. 1 = 20'

GEORGE Y. ASAKO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII U.S.A.

Wilbert T. Takamiya
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

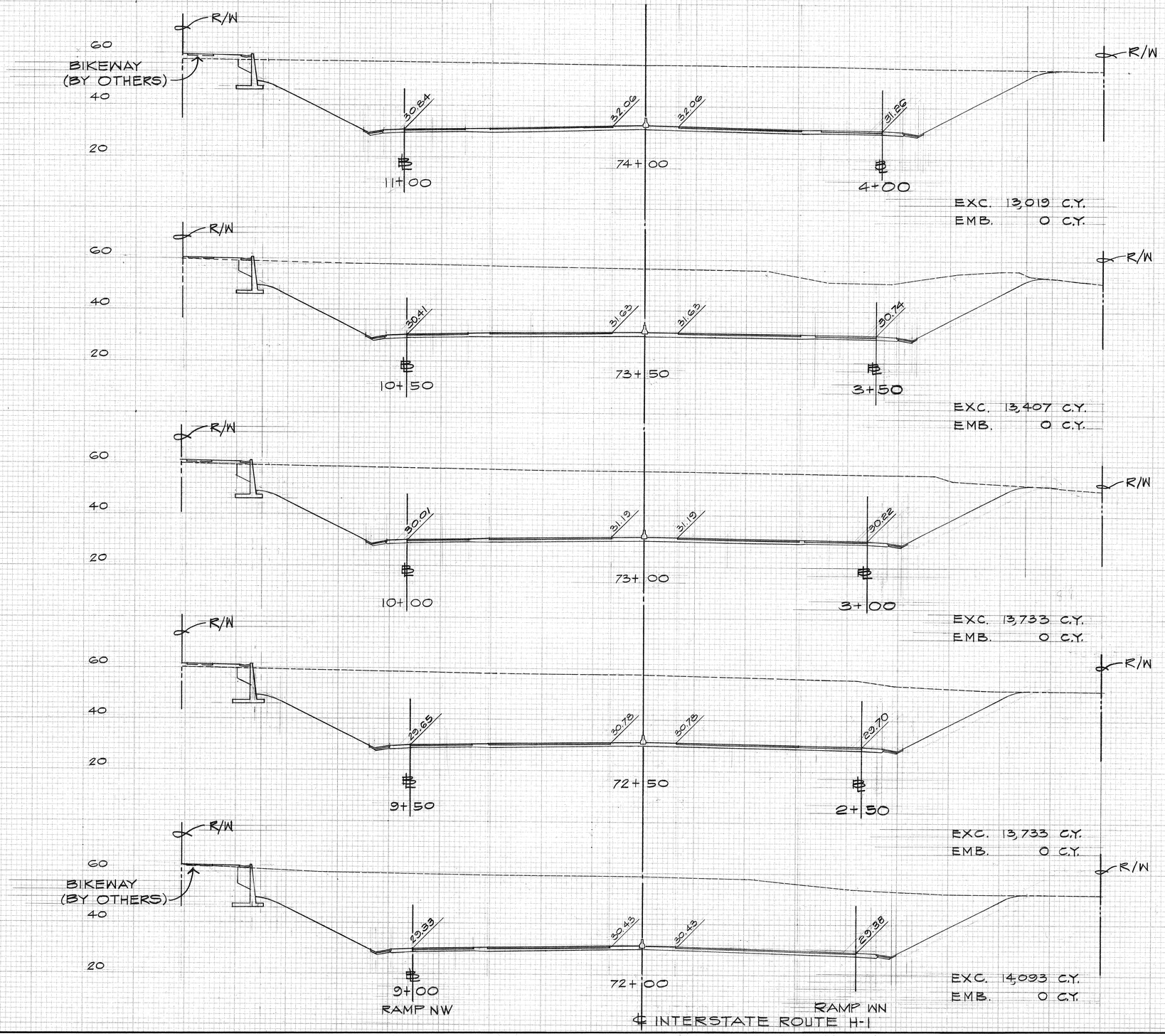
SHEET NO. 5 OF 18 SHEETS

198

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11)14	1974	199	234



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

SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO — REGISTERED PROFESSIONAL ENGINEER — No. 2088 — HAWAII, U.S.A.

WILBERT T. TAKAMIYA — REGISTERED PROFESSIONAL ENGINEER — No. 1684 — HAWAII, U.S.A.

Wilbert T. Takamiya
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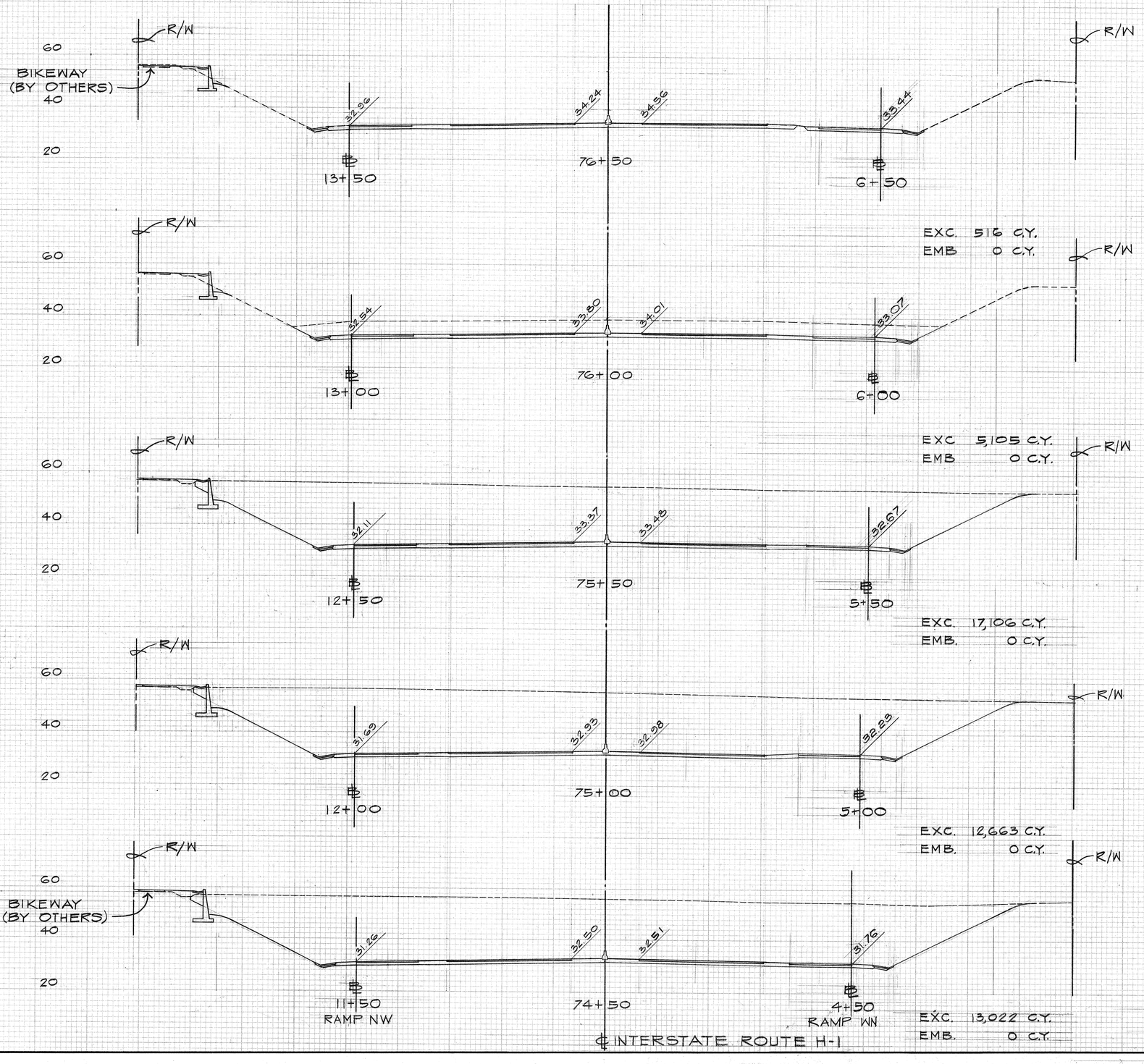
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(III):14	1974	200	234



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

SCALES: HORIZ. 1"=20'
VERT. 1"=20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII U.S.A.

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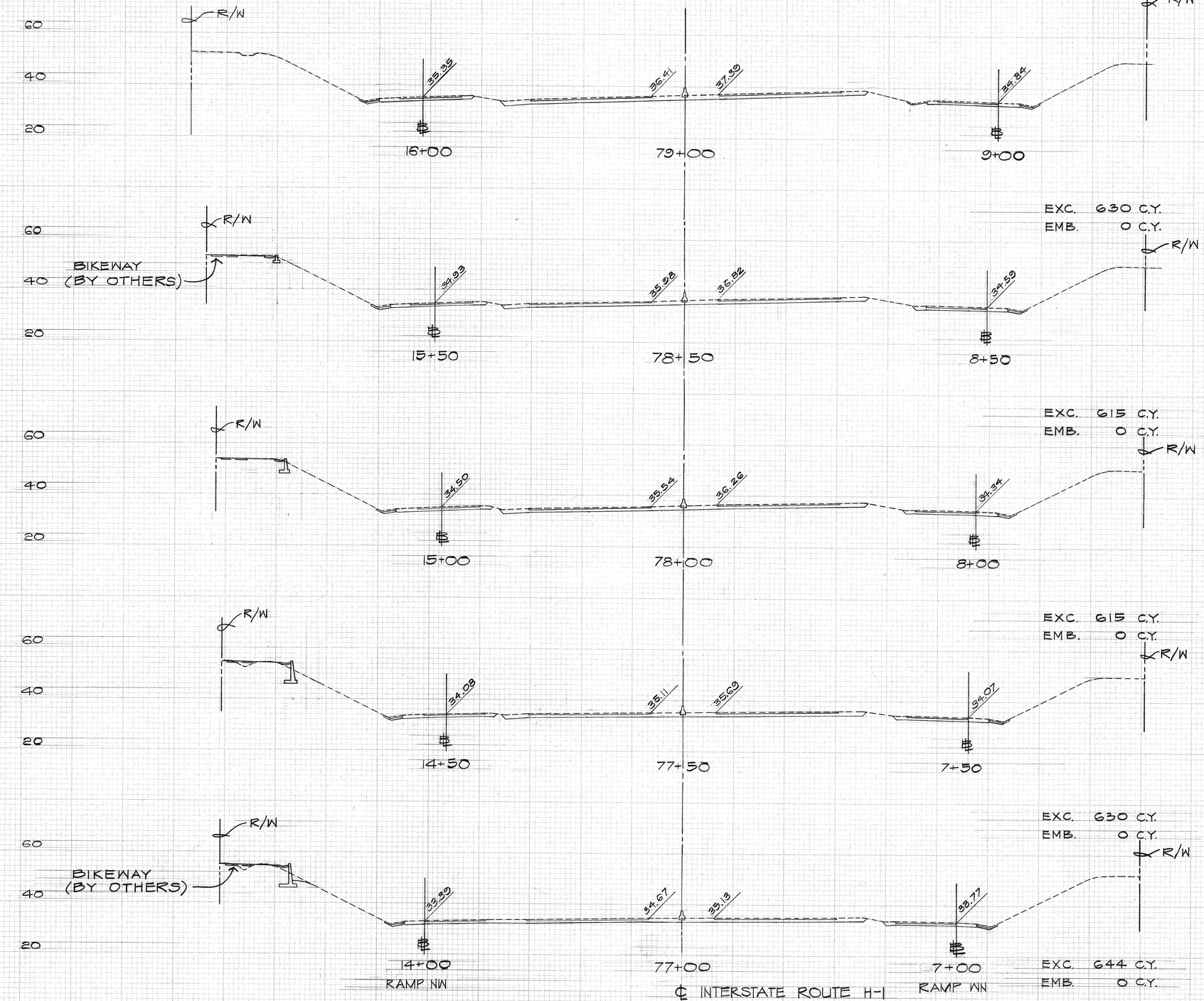
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(III).14	1974	201	234



SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII U.S.A.

Wilbert T. Takamiya
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHEET NO. 8 OF 18 SHEETS

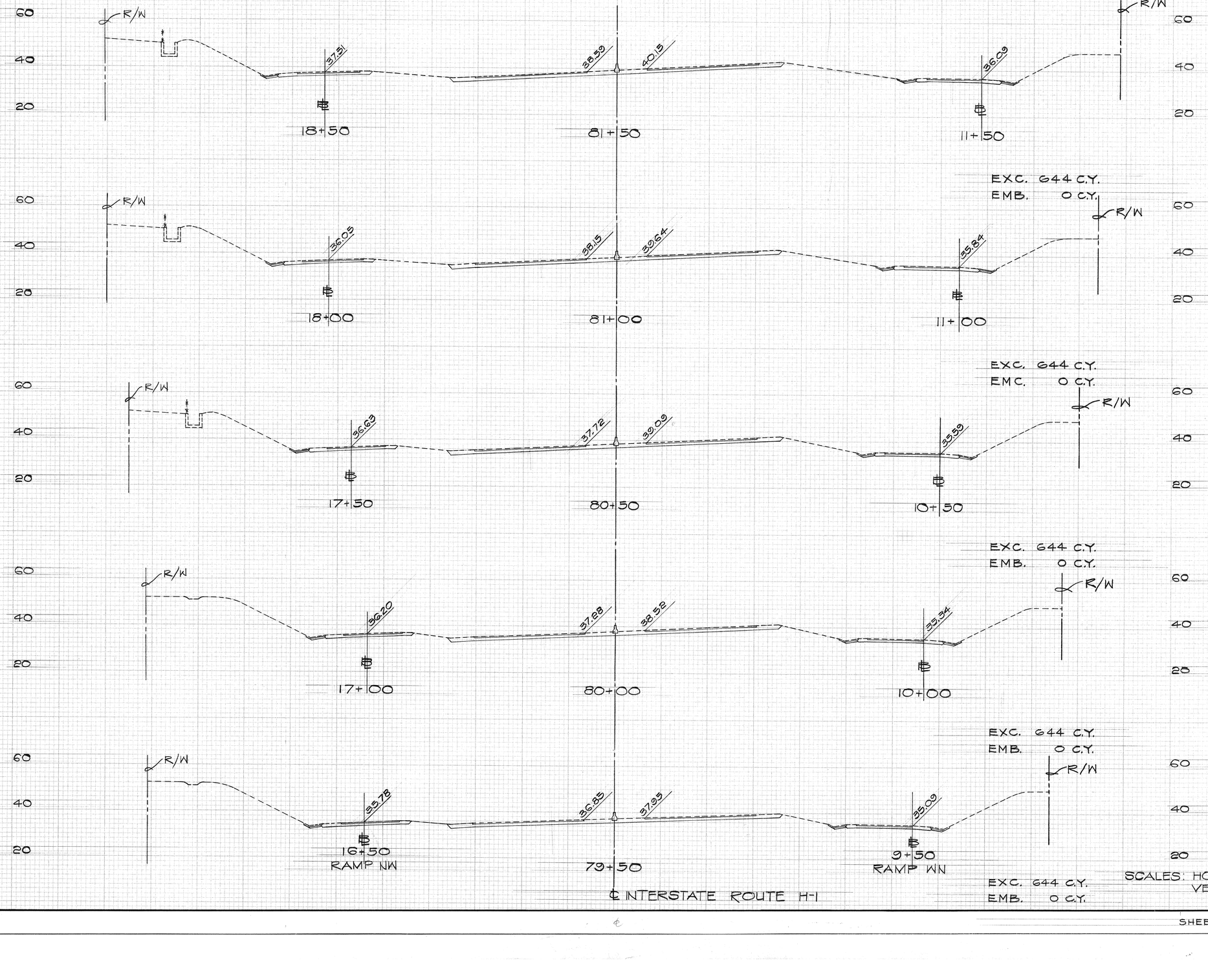
201

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, LINES CHECKED, NOTE BOOK, No.

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, LINES CHECKED, NOTE BOOK, No.

DATE | BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(III):14	1974	202	234



SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASHIO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

Wilbert T. Takamiya
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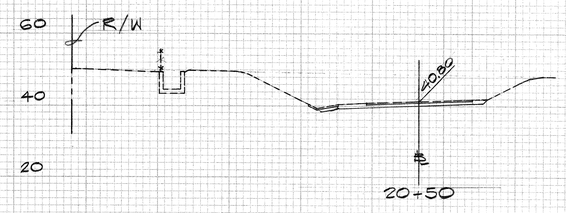
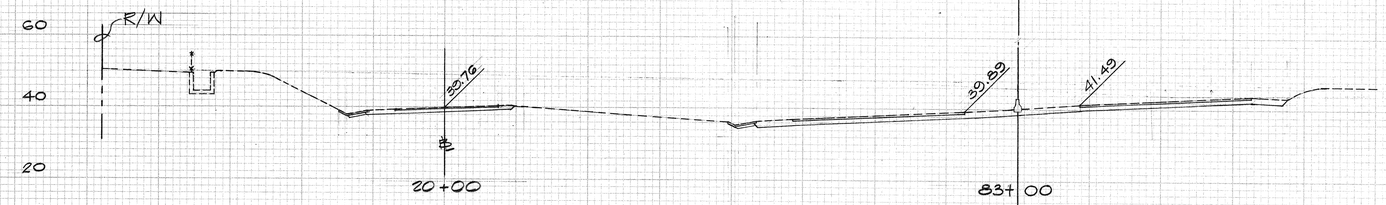
SHEET NO. 9 OF 18 SHEETS

202

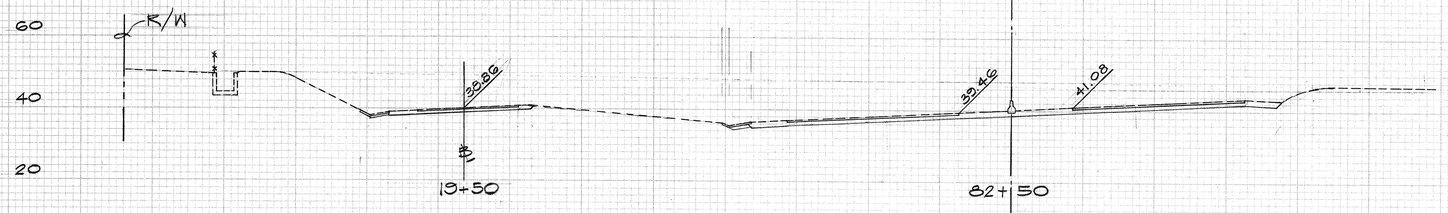
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(111):14	1974	203	234



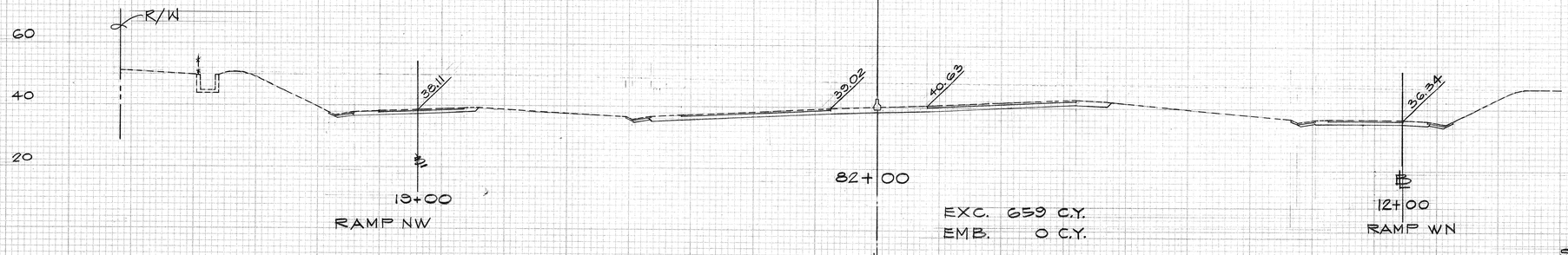
EXC. 81 C.Y.
EMB. 0 C.Y.



EXC. 541 C.Y.
EMB. 0 C.Y.



EXC. 541 C.Y.
EMB. 0 C.Y.



EXC. 659 C.Y.
EMB. 0 C.Y.

℄ INTERSTATE ROUTE H-1

SCALES: HORIZ. 1" = 20'
VERT. 1" = 20'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII U.S.A.

Wilbert T. Takamiya
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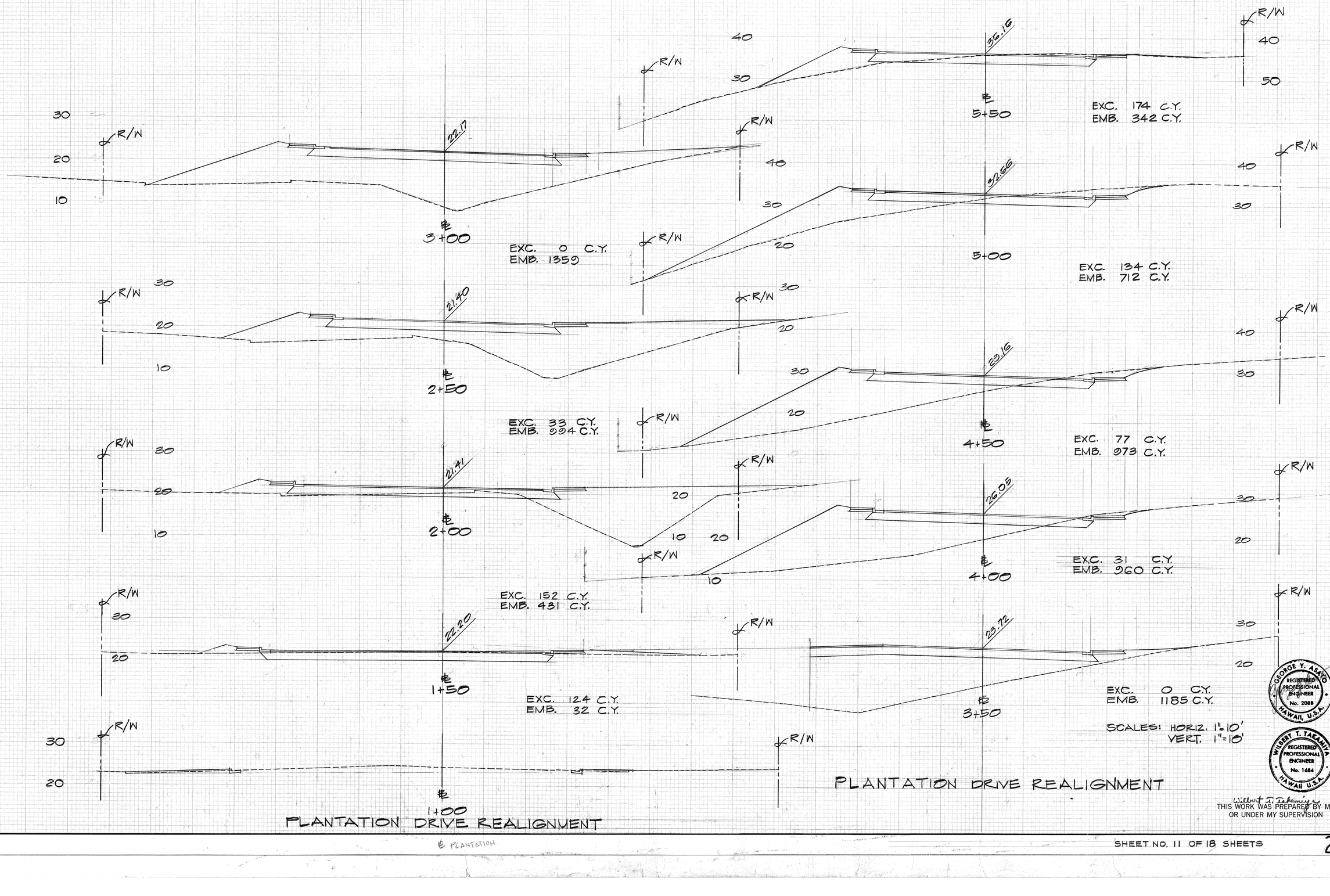
FINAL SURVEY
NOTE BOOK
No.
REVISED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
No.
REVISED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(111):14	1974	204	234



SCALES: HORIZ. 1"=10'
VERT. 1"=10'

GEORGE Y. ASAKO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

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HAWAII U.S.A.

Wilbert T. Takamiya
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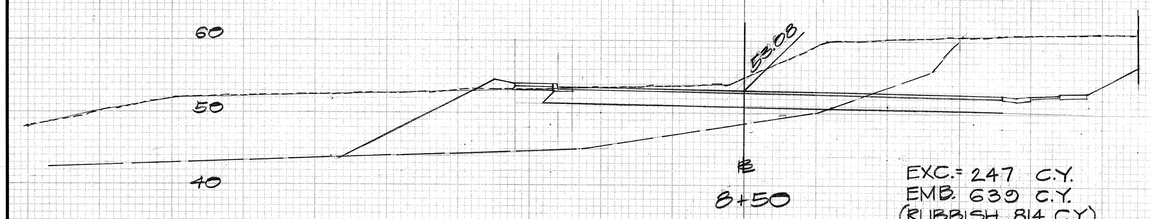
SHEET NO. 11 OF 18 SHEETS

204

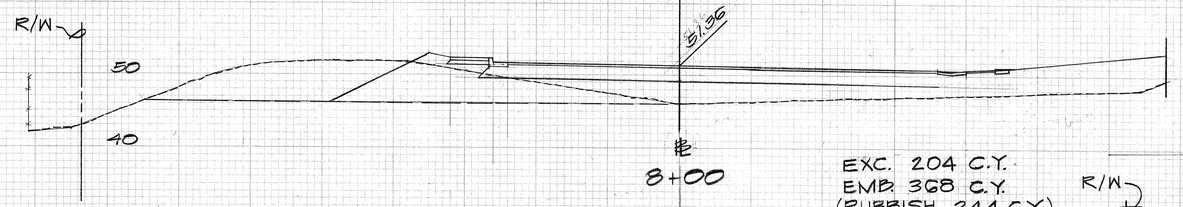
FINAL SURVEY — NOTE BOOK — No. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE

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

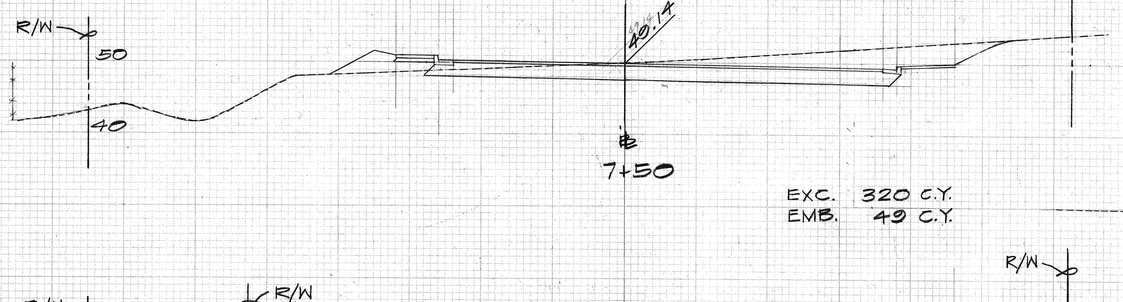
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11):14	1974	205	234



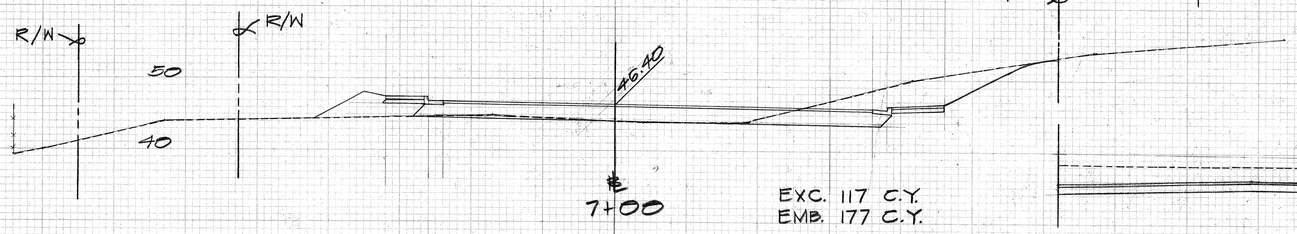
EXC. = 247 C.Y.
EMB. 639 C.Y.
(RUBBISH 814 C.Y.)



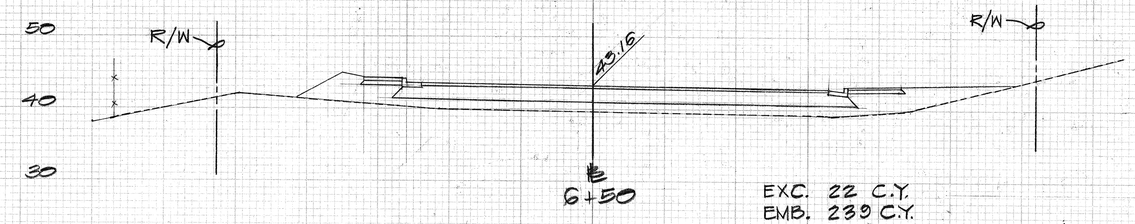
EXC. 204 C.Y.
EMB. 368 C.Y.
(RUBBISH 244 C.Y.)



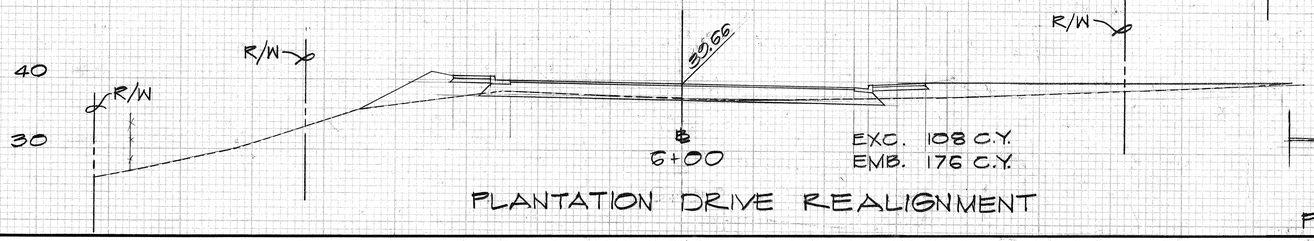
EXC. 320 C.Y.
EMB. 49 C.Y.



EXC. 117 C.Y.
EMB. 177 C.Y.

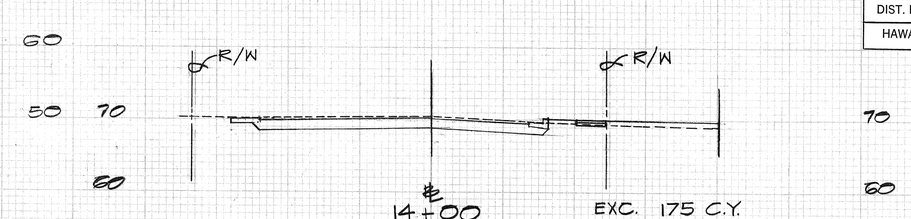


EXC. 22 C.Y.
EMB. 230 C.Y.

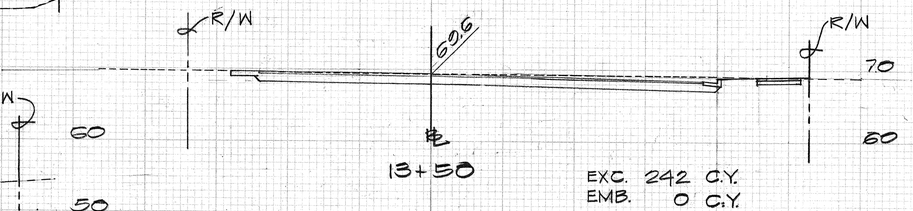


EXC. 108 C.Y.
EMB. 176 C.Y.

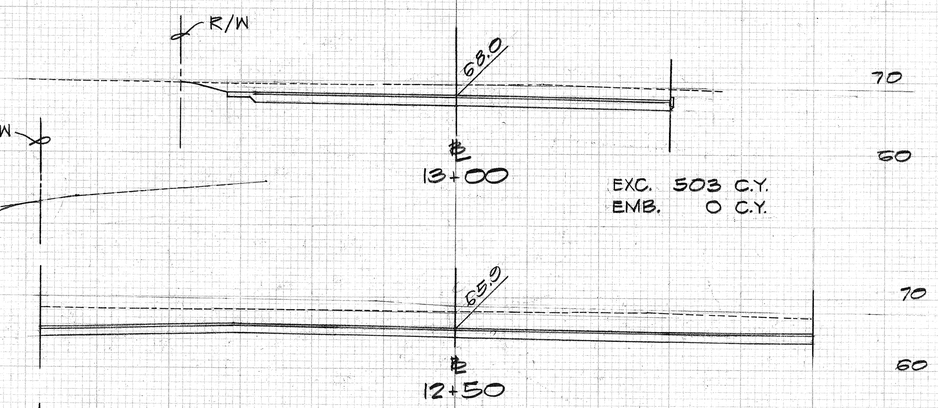
PLANTATION DRIVE REALIGNMENT



EXC. 175 C.Y.
EMB. 17 C.Y.

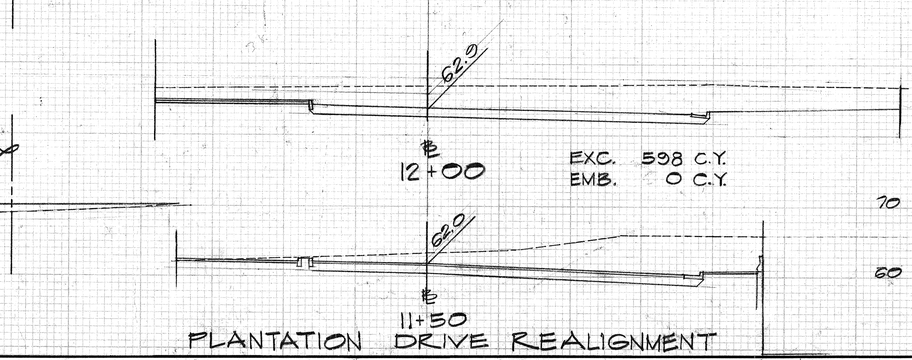


EXC. 242 C.Y.
EMB. 0 C.Y.



EXC. 503 C.Y.
EMB. 0 C.Y.

EXC. 702 C.Y.
EMB. 0 C.Y.



EXC. 598 C.Y.
EMB. 0 C.Y.

PLANTATION DRIVE REALIGNMENT

GEORGE Y. ASATO
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No. 2086
HAWAII, U.S.A.

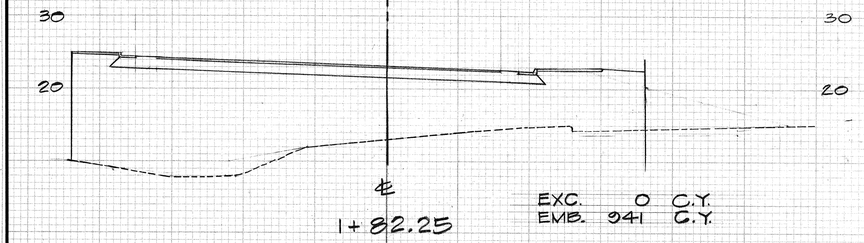
WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

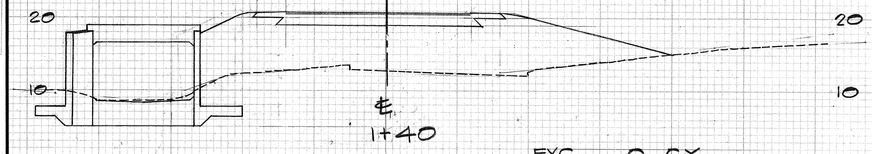
FINAL SURVEY — SURVEYED, PLOTTED, PROFILE PLTD., AREAS, AREAS CHECKED, NOTE BOOK, PAGE, No., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, PROFILE PLTD., AREAS, AREAS CHECKED, NOTE BOOK, PAGE, No., BY, DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11):14	1974	206	234

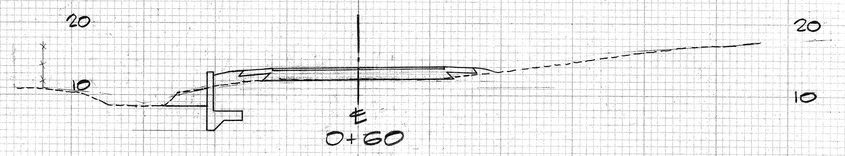


EXC. 0 C.Y.
EMB. 941 C.Y.

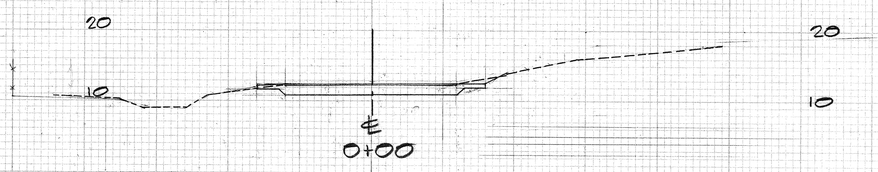


EXC. 0 C.Y.
EMB. 447 C.Y.

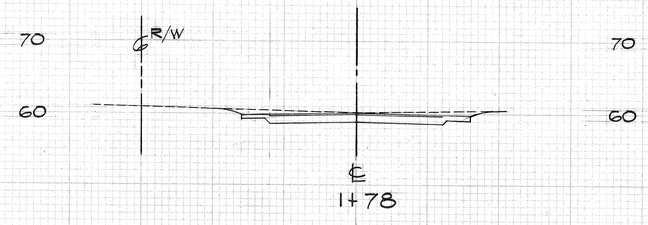
EXC. 26 C.Y.
EMB. 160 C.Y.



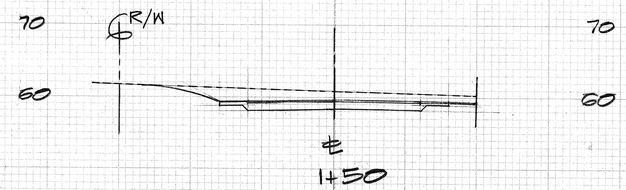
EXC. 87 C.Y.
EMB. 11 C.Y.



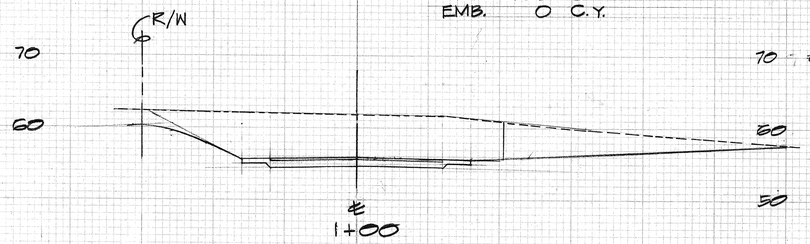
MAKALAPA DRIVE



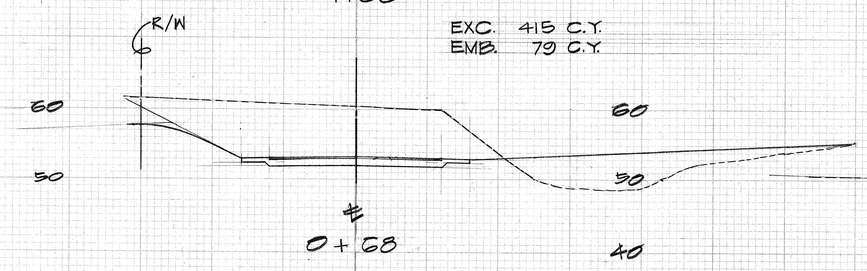
EXC. 78 C.Y.
EMB. 0 C.Y.



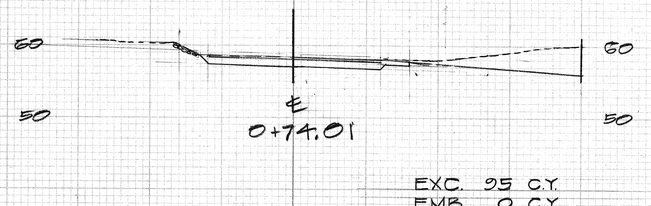
EXC. 453 C.Y.
EMB. 0 C.Y.



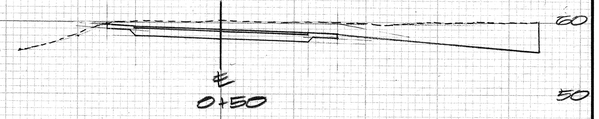
EXC. 415 C.Y.
EMB. 79 C.Y.



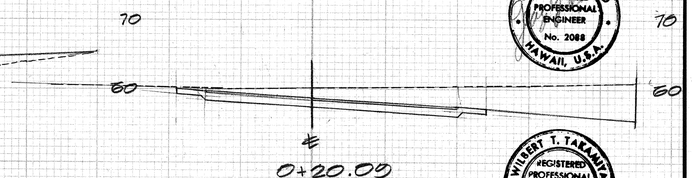
MIDWAY DRIVE



EXC. 95 C.Y.
EMB. 0 C.Y.



EXC. 187 C.Y.
EMB. 1 C.Y.



TARAWA DRIVE

GEORGE Y. ASAKO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

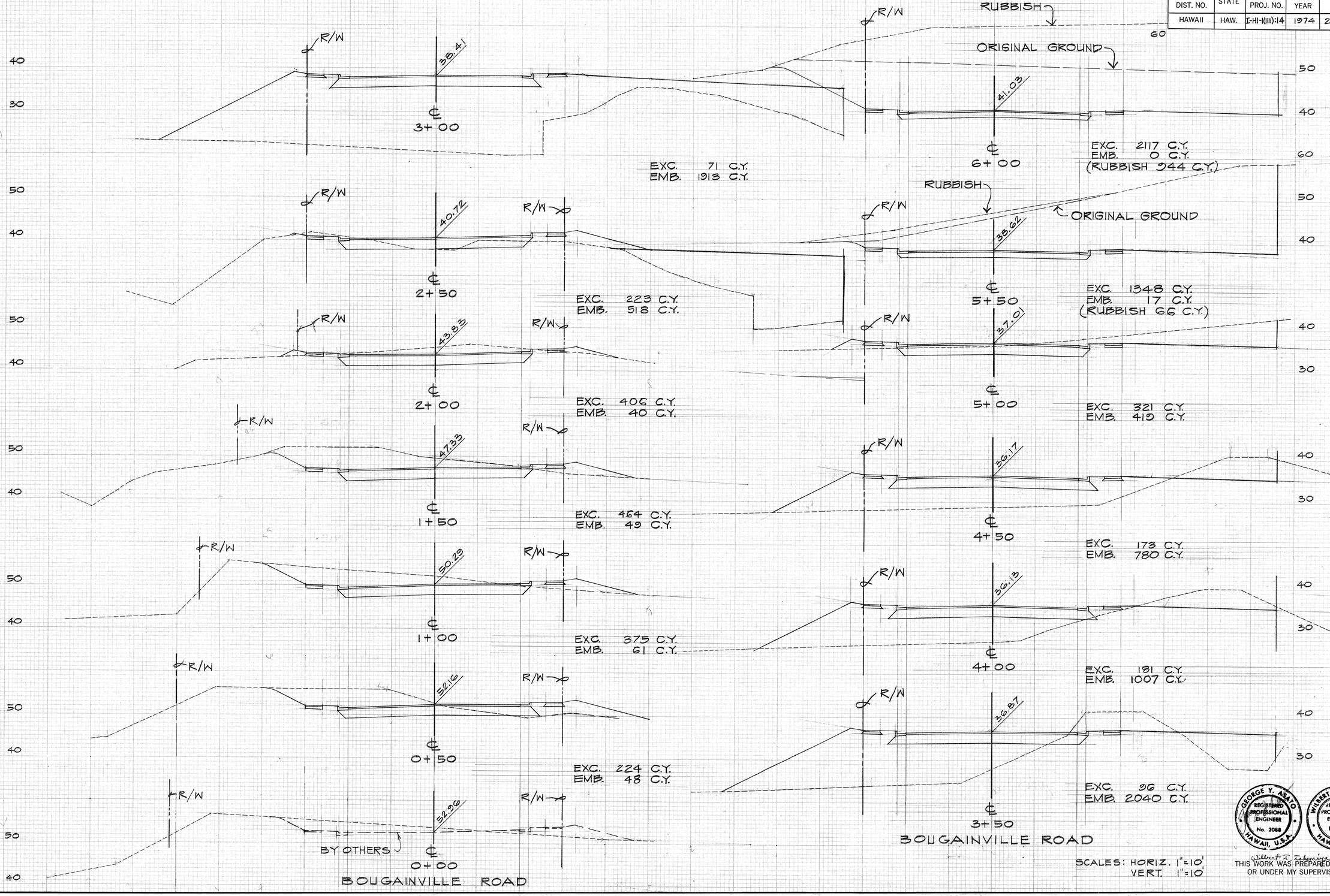
WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

Wilbert T. Takamiya
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, CROSS CHECKED, NOTE BOOK, No., DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, CROSS CHECKED, NOTE BOOK, No., DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11):14	1974	207	234



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 Y. ASANO — REGISTERED PROFESSIONAL ENGINEER — No. 2088 — HAWAII, U.S.A.

WILBERT T. TAKAMIYA — REGISTERED PROFESSIONAL ENGINEER — No. 1684 — HAWAII, U.S.A.

Wilbert T. Takamiya

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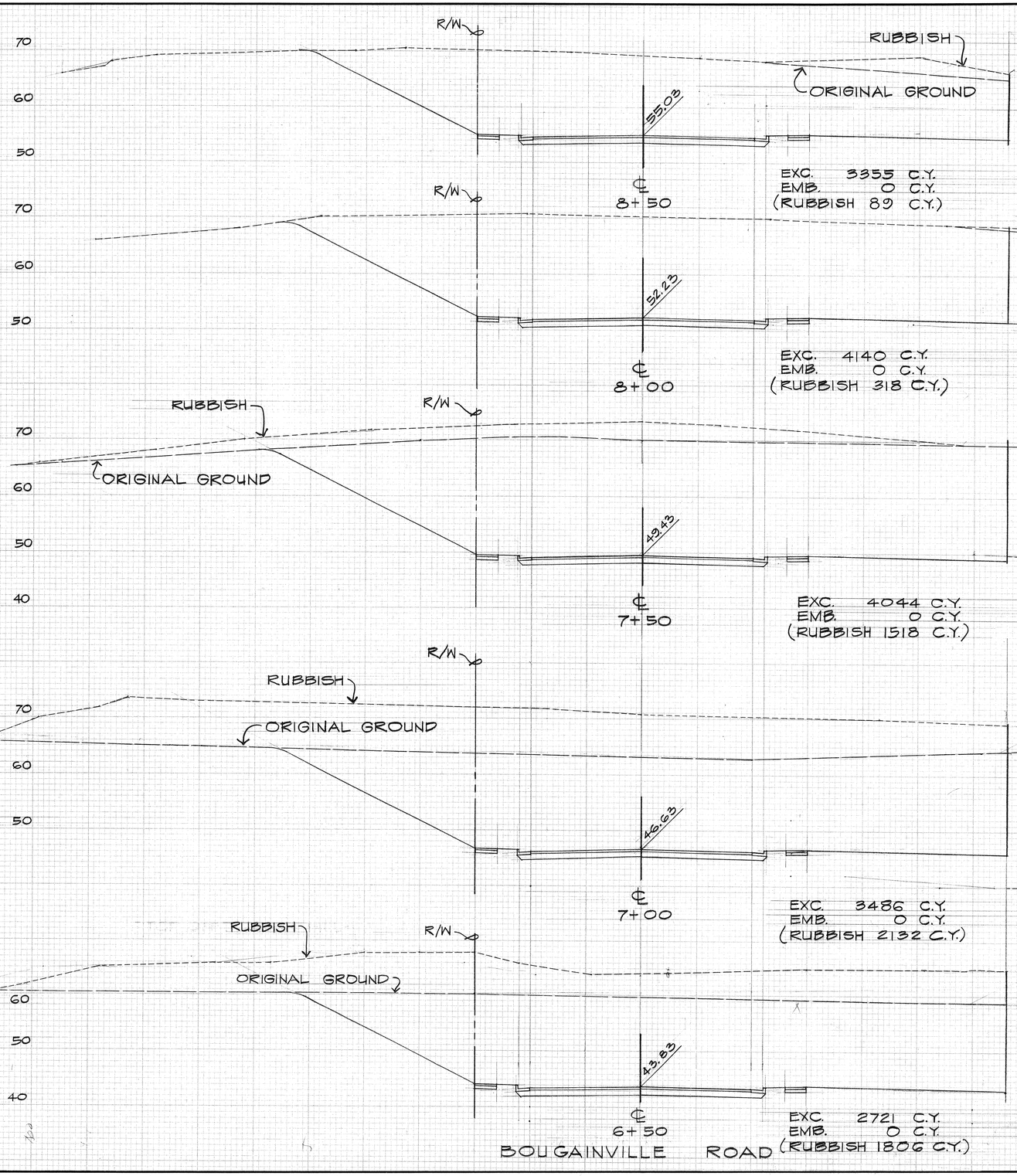
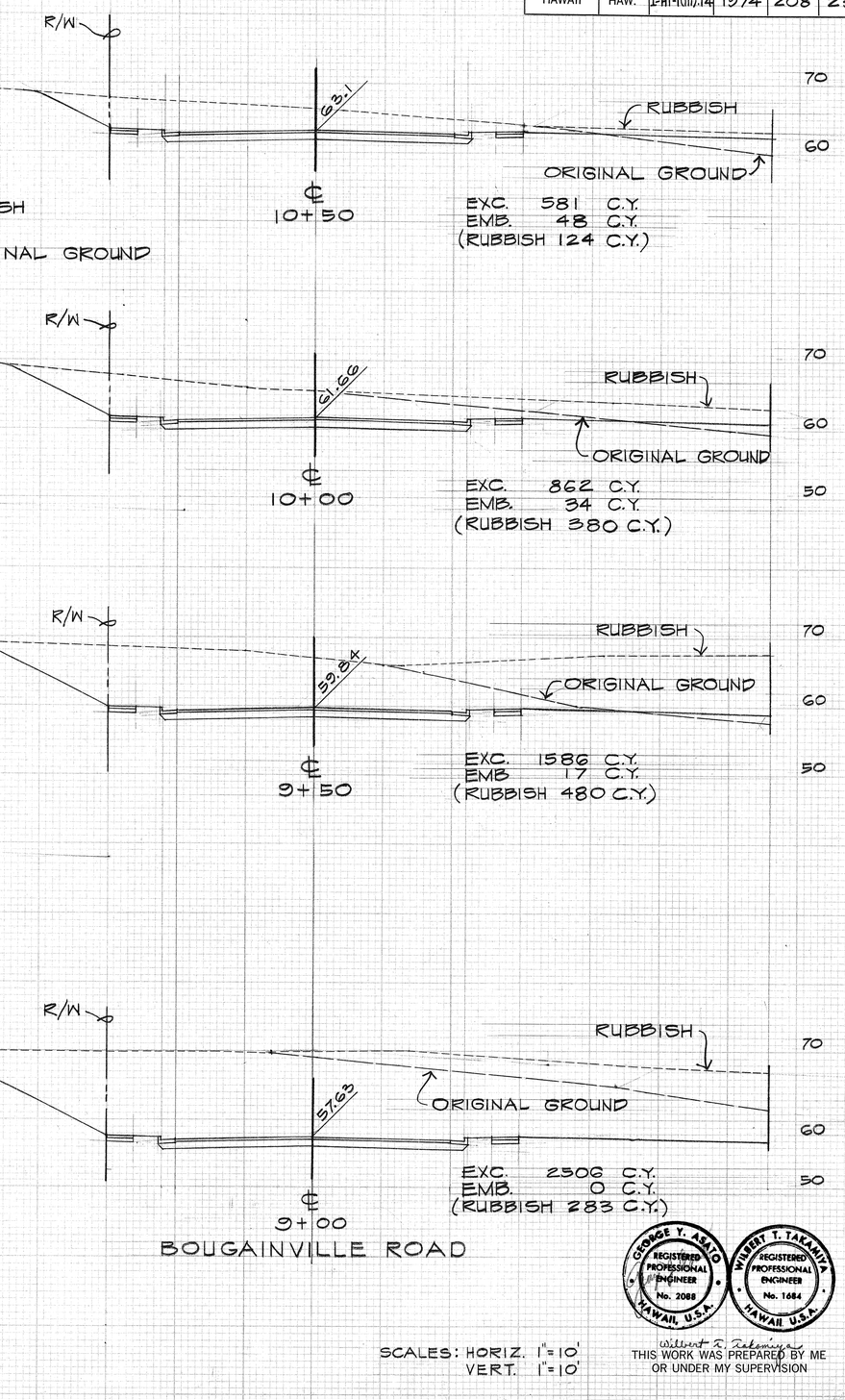
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11):14	1974	208	234





BOUGAINVILLE ROAD

SCALES: HORIZ. 1"=10'
VERT. 1"=10'

GEORGE Y. ASATO REGISTERED PROFESSIONAL ENGINEER No. 2088 HAWAII, U.S.A.

WILBERT T. TAKAHIWA REGISTERED PROFESSIONAL ENGINEER No. 1684 HAWAII, U.S.A.

Wilbert T. Takahiwa

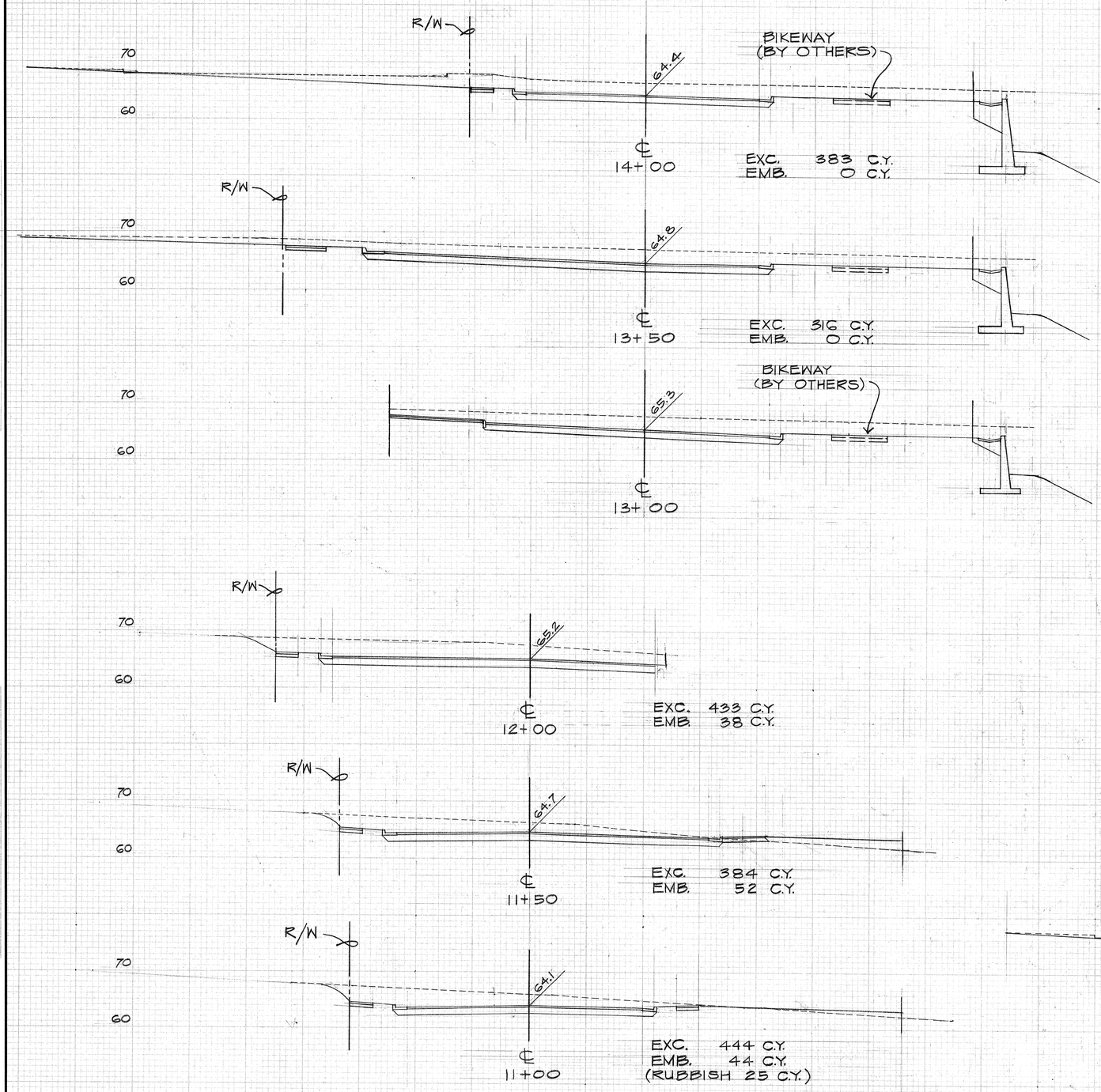
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHEET NO. 15 OF 18 SHEETS

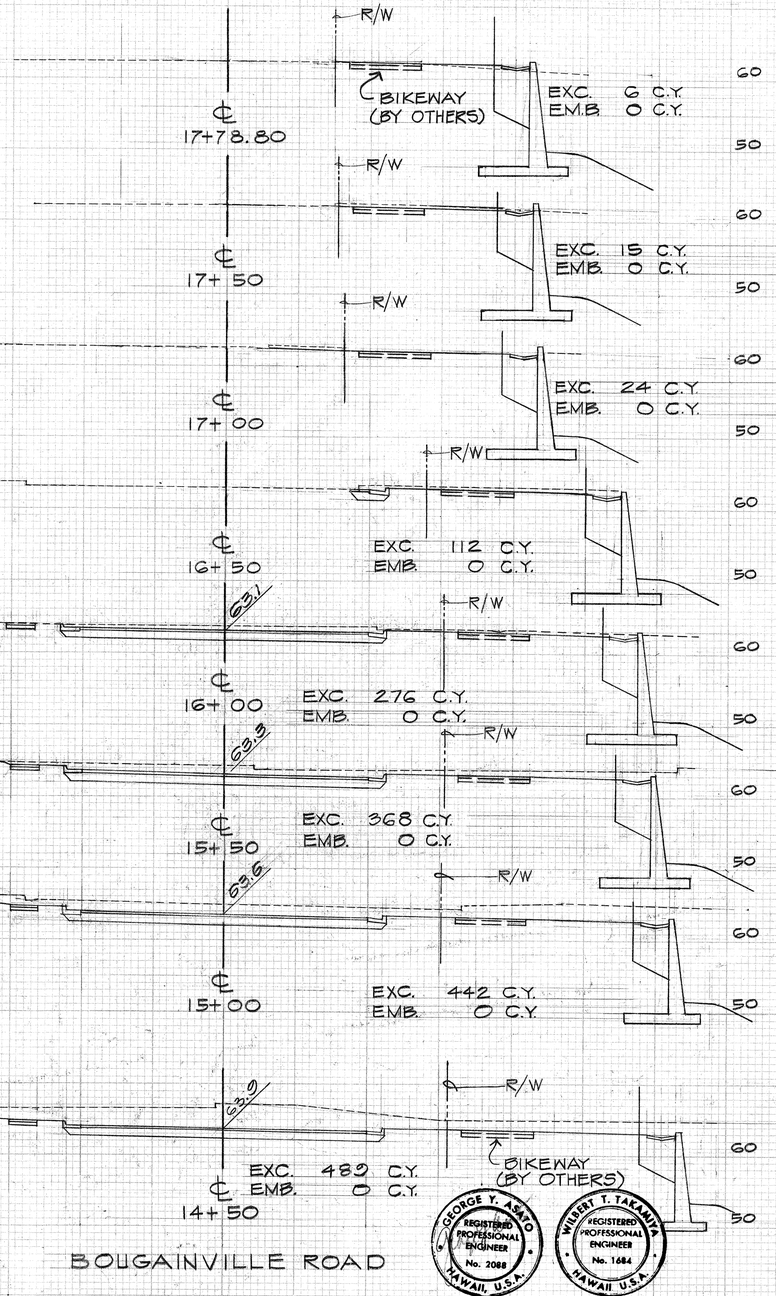
208

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-H(II)14	1974	209	234



BOUGAINVILLE ROAD



BOUGAINVILLE ROAD

SCALES: HORIZ. 1" = 10'
VERT. 1" = 10'

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

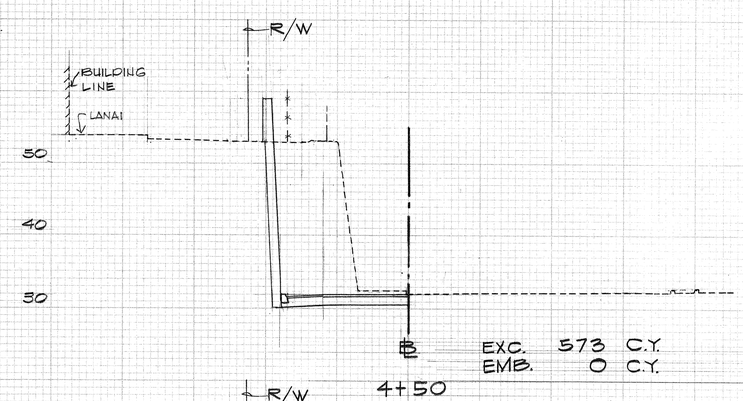
WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

Wilbert T. Takamiya
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ORIGINAL SURVEY / FINAL SURVEY
SURVEYED
PLOTTED
DRAWN
AREAS
AREAS CHECKED
NOTES FROM
No. DATE BY

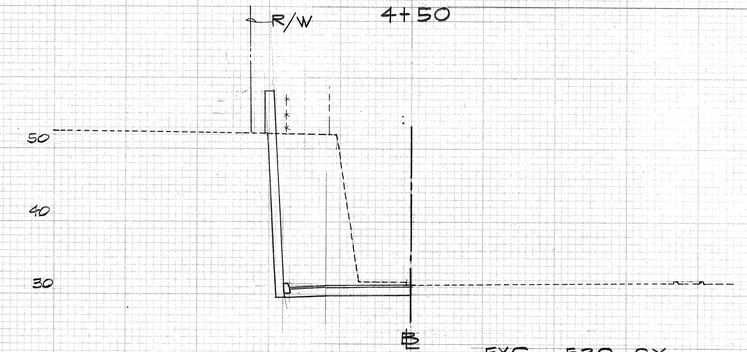
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-I(III):14	1974	210	234

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



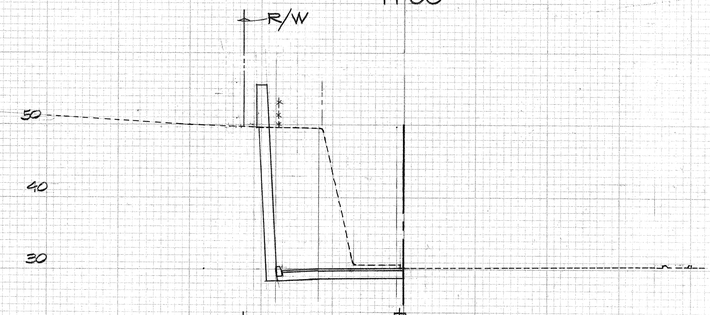
EXC. 573 C.Y.
EMB. 0 C.Y.

4+50



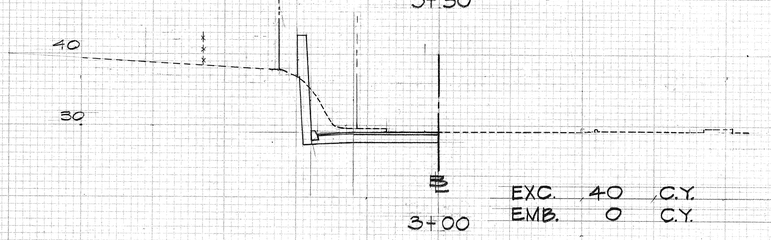
EXC. 530 C.Y.
EMB. 0 C.Y.

4+00



EXC. 309 C.Y.
EMB. 0 C.Y.

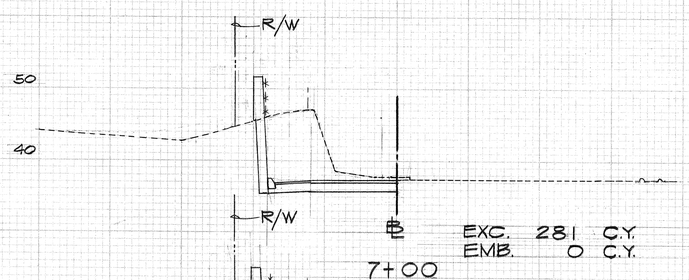
3+50



EXC. 40 C.Y.
EMB. 0 C.Y.

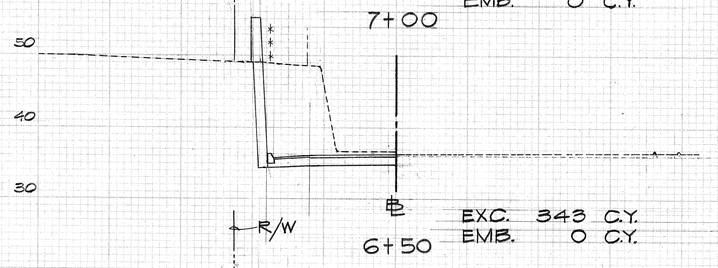
3+00

KAMEHAMEHA HIGHWAY WIDENING



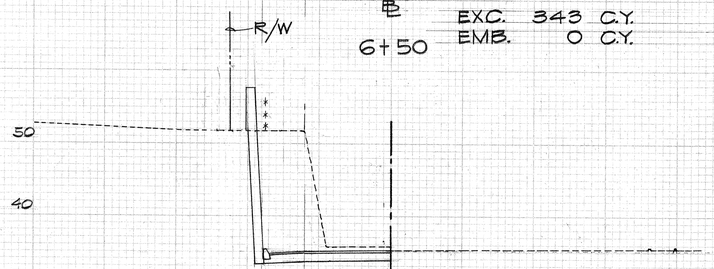
EXC. 281 C.Y.
EMB. 0 C.Y.

7+00



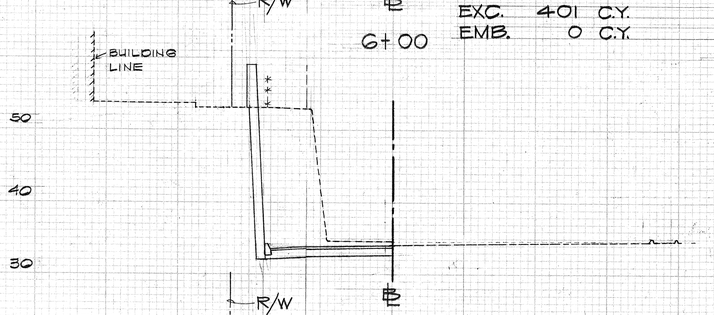
EXC. 343 C.Y.
EMB. 0 C.Y.

6+50



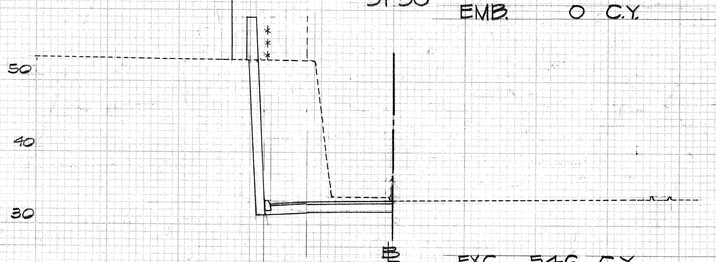
EXC. 401 C.Y.
EMB. 0 C.Y.

6+00



EXC. 469 C.Y.
EMB. 0 C.Y.

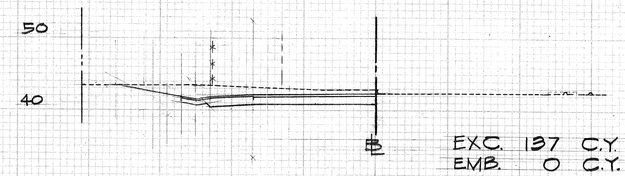
5+50



EXC. 546 C.Y.
EMB. 0 C.Y.

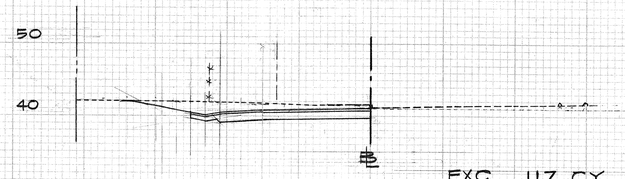
5+00

KAMEHAMEHA HIGHWAY WIDENING



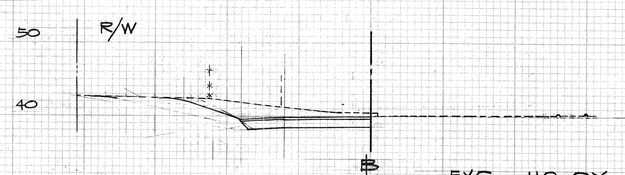
EXC. 137 C.Y.
EMB. 0 C.Y.

9+50



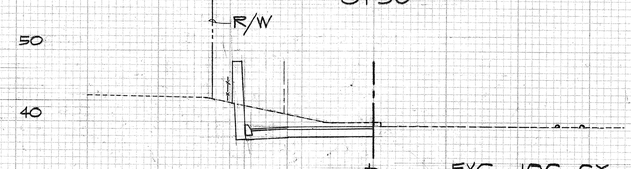
EXC. 117 C.Y.
EMB. 0 C.Y.

9+00



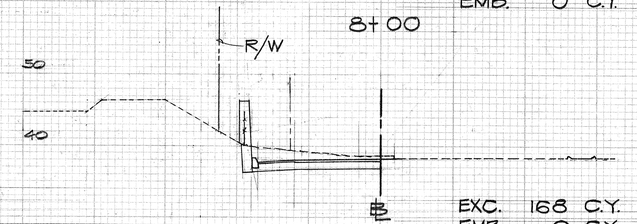
EXC. 116 C.Y.
EMB. 0 C.Y.

8+50



EXC. 106 C.Y.
EMB. 0 C.Y.

8+00



EXC. 168 C.Y.
EMB. 0 C.Y.

7+50

KAMEHAMEHA HIGHWAY WIDENING

GEORGE Y. ASATO
REGISTERED PROFESSIONAL ENGINEER
No. 2088
HAWAII, U.S.A.

WILBERT T. TAKAMIYA
REGISTERED PROFESSIONAL ENGINEER
No. 1684
HAWAII, U.S.A.

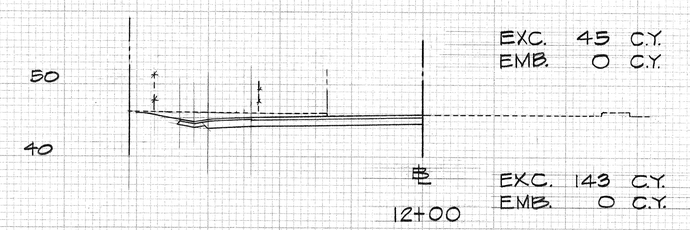
SCALES: HORIZ. 1"=10'
VERT. 1"=10'

Wilbert T. Takamiya
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(11):14	1974	211	234

DATE	REVISION
12/17/75	ADDED PLANTATION DRIVE DETOUR

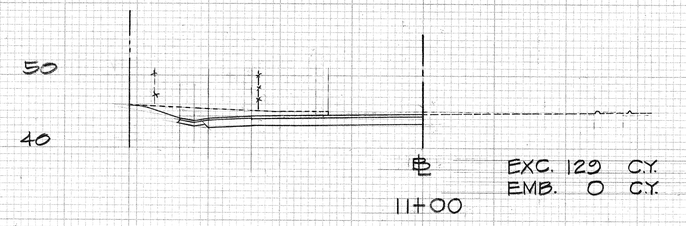
CCO # 33
Feb. 20, 1976



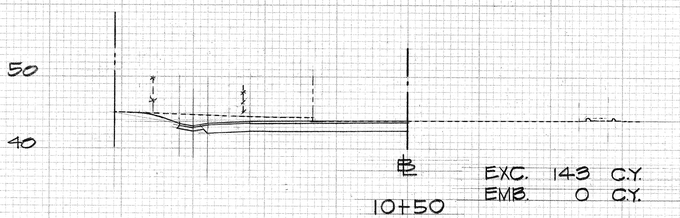
EXC. 45 C.Y.
EMB. 0 C.Y.

EXC. 143 C.Y.
EMB. 0 C.Y.

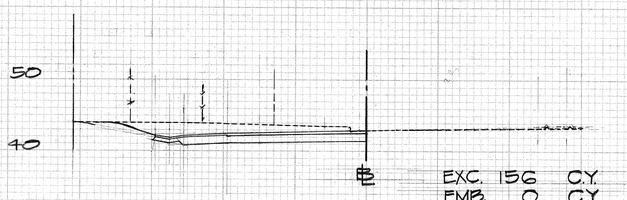
EXC. 141 C.Y.
EMB. 0 C.Y.



EXC. 129 C.Y.
EMB. 0 C.Y.

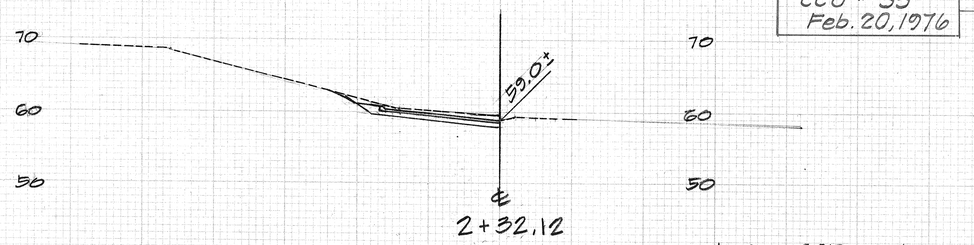


EXC. 143 C.Y.
EMB. 0 C.Y.

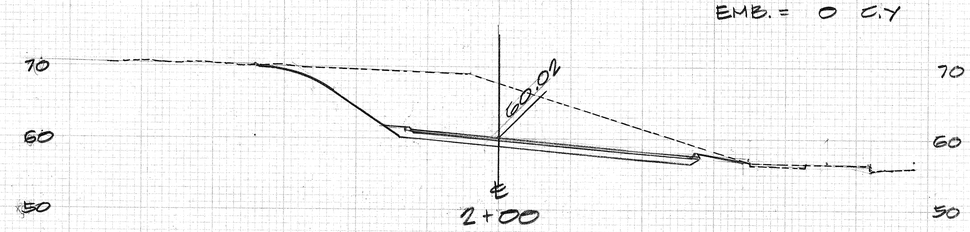


EXC. 156 C.Y.
EMB. 0 C.Y.

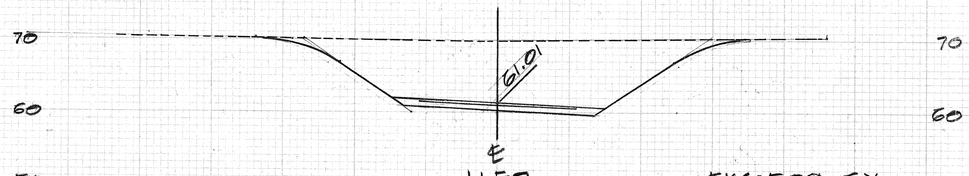
KAMEHAMEHA HIGHWAY WIDENING



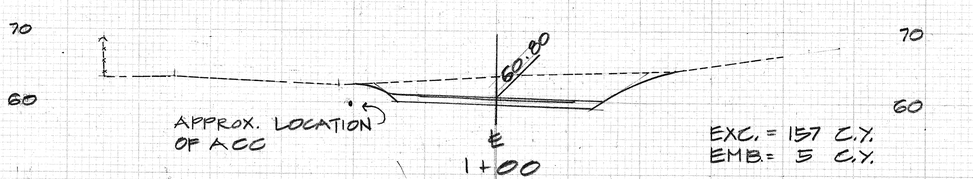
EXC. = 225 C.Y
EMB. = 0 C.Y



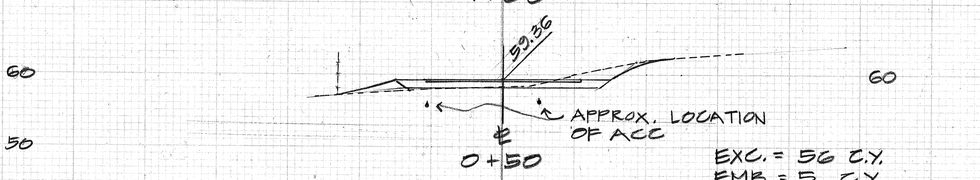
EXC. = 704 C.Y.
EMB. = 0 C.Y.



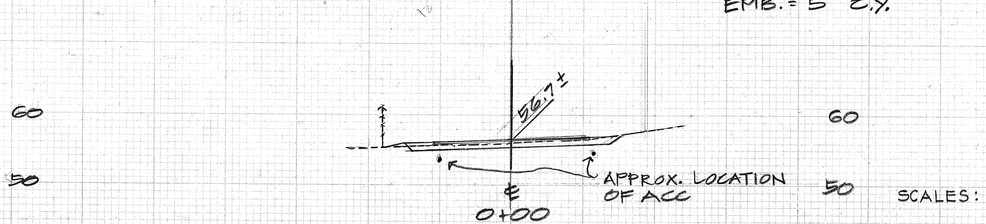
EXC: 509 C.Y.
EMB. = 0 C.Y.



EXC. = 157 C.Y.
EMB. = 5 C.Y.



EXC. = 56 C.Y.
EMB. = 5 C.Y.



PLANTATION DRIVE DETOUR

SCALES: HORIZ. 1" = 10'
VERT. 1" = 10'

GEORGE Y. ASAMO
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HAWAII, U.S.A.

WILBERT T. TAKAMIYA
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No. 1684
HAWAII, U.S.A.

Wilbert T. Takamiya
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

FINAL SURVEY — SURVEYED BY ... TEMPLATE ... AREAS ... AREAS CHECKED ... NOTES BOOK ... No.

ORIGINAL SURVEY — SURVEYED BY ... TEMPLATE ... AREAS ... AREAS CHECKED ... NOTES BOOK ... No.

C.O. 211