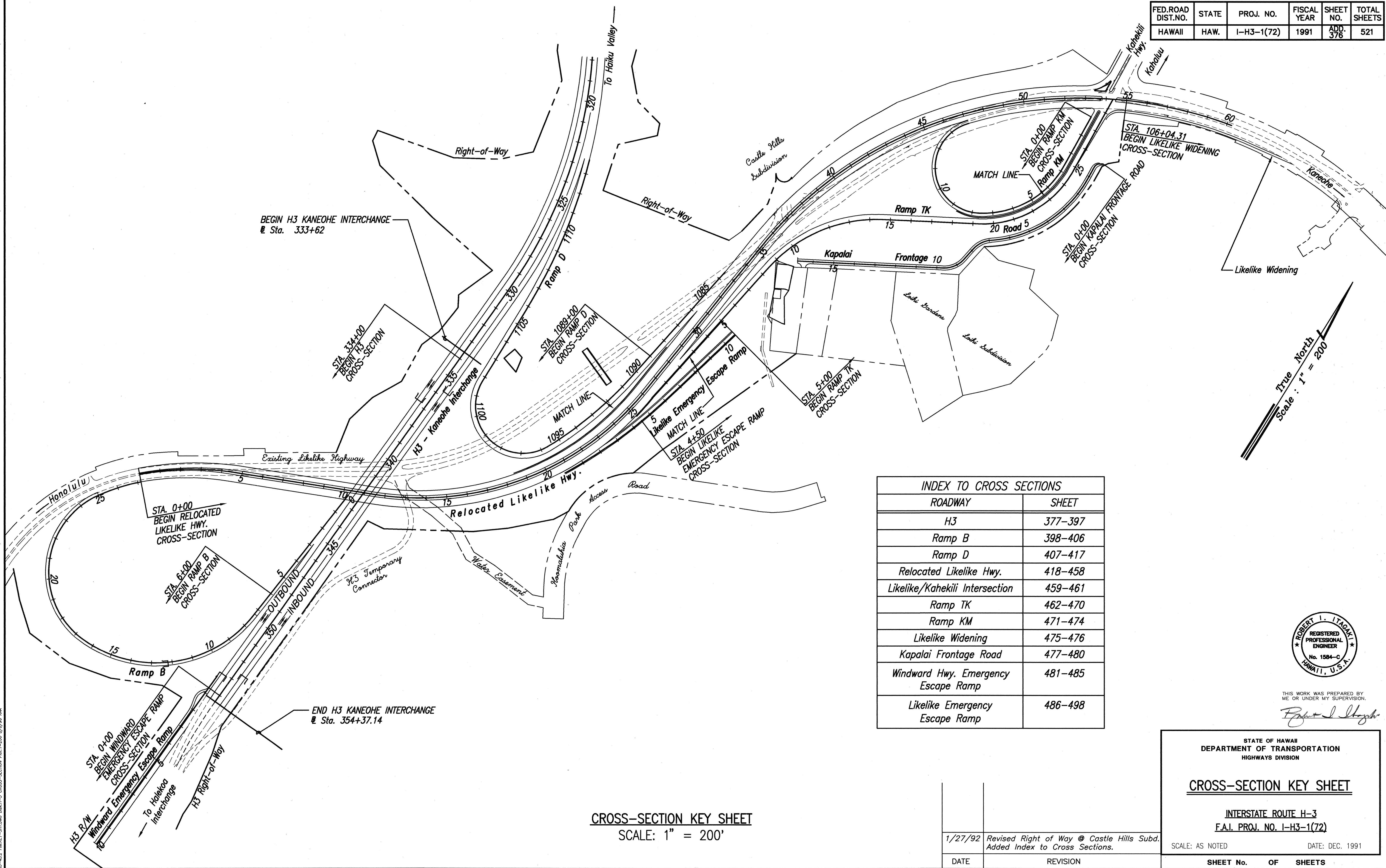
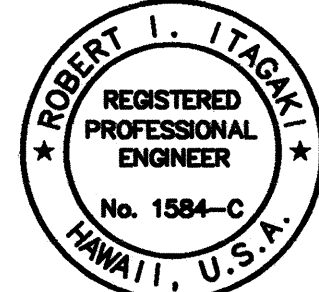


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 376	521



CROSS-SECTION KEY SHEET
SCALE: 1" = 200'

INDEX TO CROSS SECTIONS	
ROADWAY	SHEET
H3	377-397
Ramp B	398-406
Ramp D	407-417
Relocated Likelike Hwy.	418-458
Likelike/Kahekili Intersection	459-461
Ramp TK	462-470
Ramp KM	471-474
Likelike Widening	475-476
Kapalai Frontage Road	477-480
Windward Hwy. Emergency Escape Ramp	481-485
Likelike Emergency Escape Ramp	486-498



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Robert L. Itacki

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS-SECTION KEY SHEET

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

SHEET No. OF SHEETS

ADD. 376

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
No.	

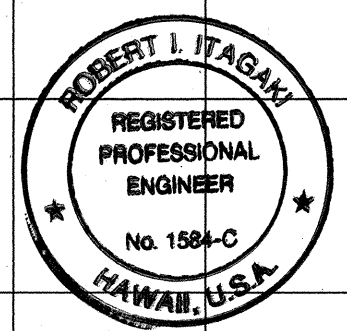
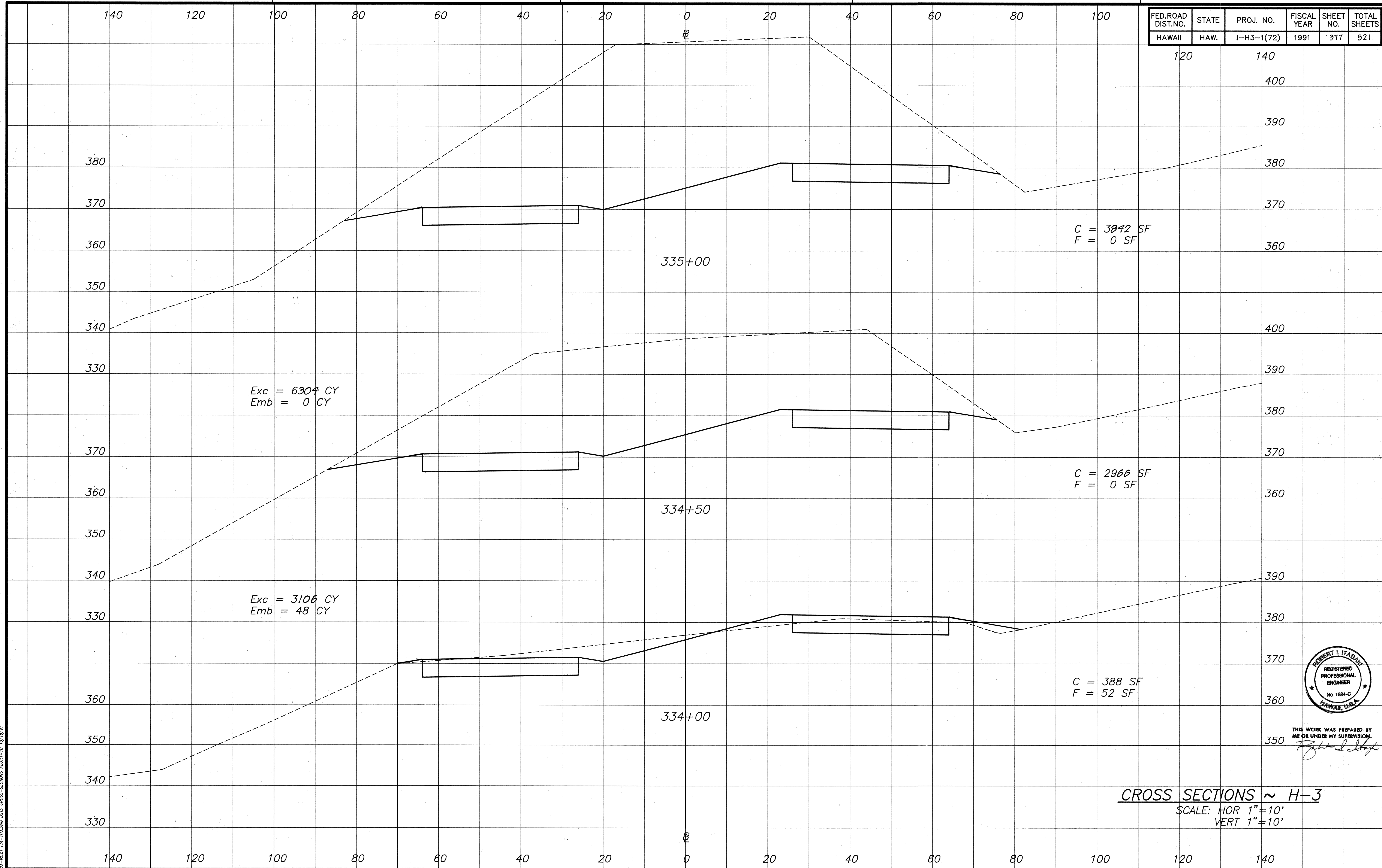
83-462 Plan View - Stationing District-3 CROSS-SECTION Key Sheet-200 8/6/96 KAA

1/27/92	Revised Right of Way @ Castle Hills Subd. Added Index to Cross Sections.
DATE	REVISION

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

83-4621 P&H-HOLDING E&H CROSS-SECTIONS PLOT#10 10/19/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	377	521



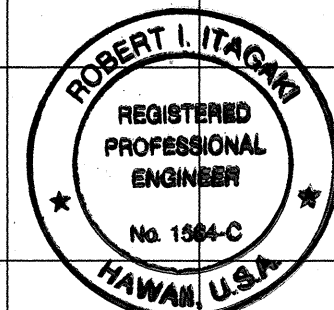
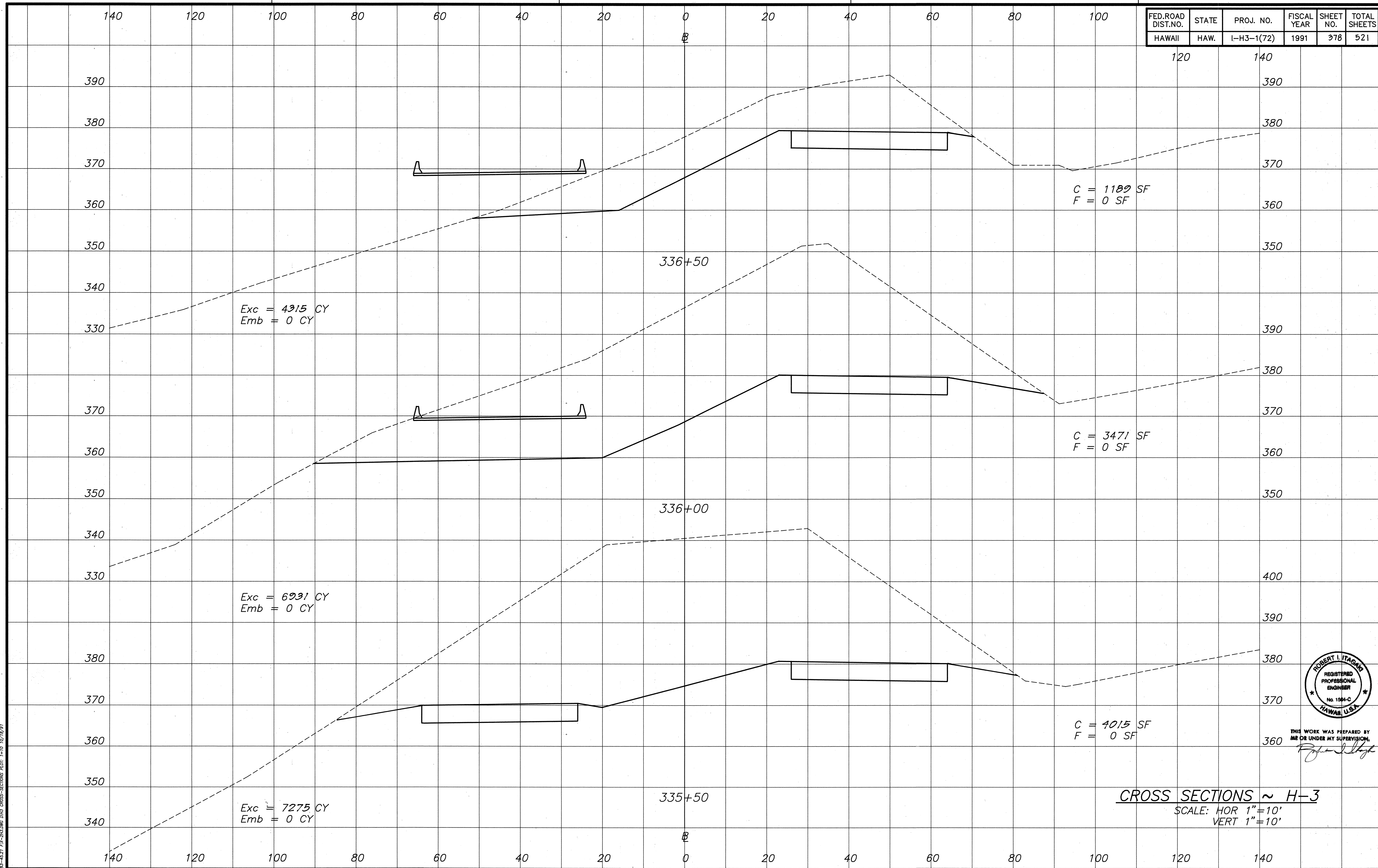
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Robert L. Itagaki

CROSS SECTIONS ~ H-3
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	CHECKED BY	
No.		

83-4271 FM-240-DMG DMS CROSS-SECTIONS PLOT: 1=10 10/18/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	378	521



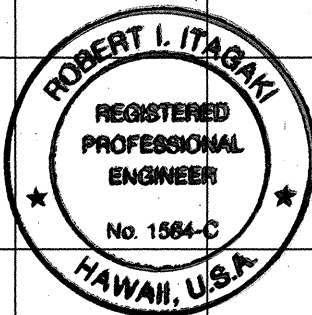
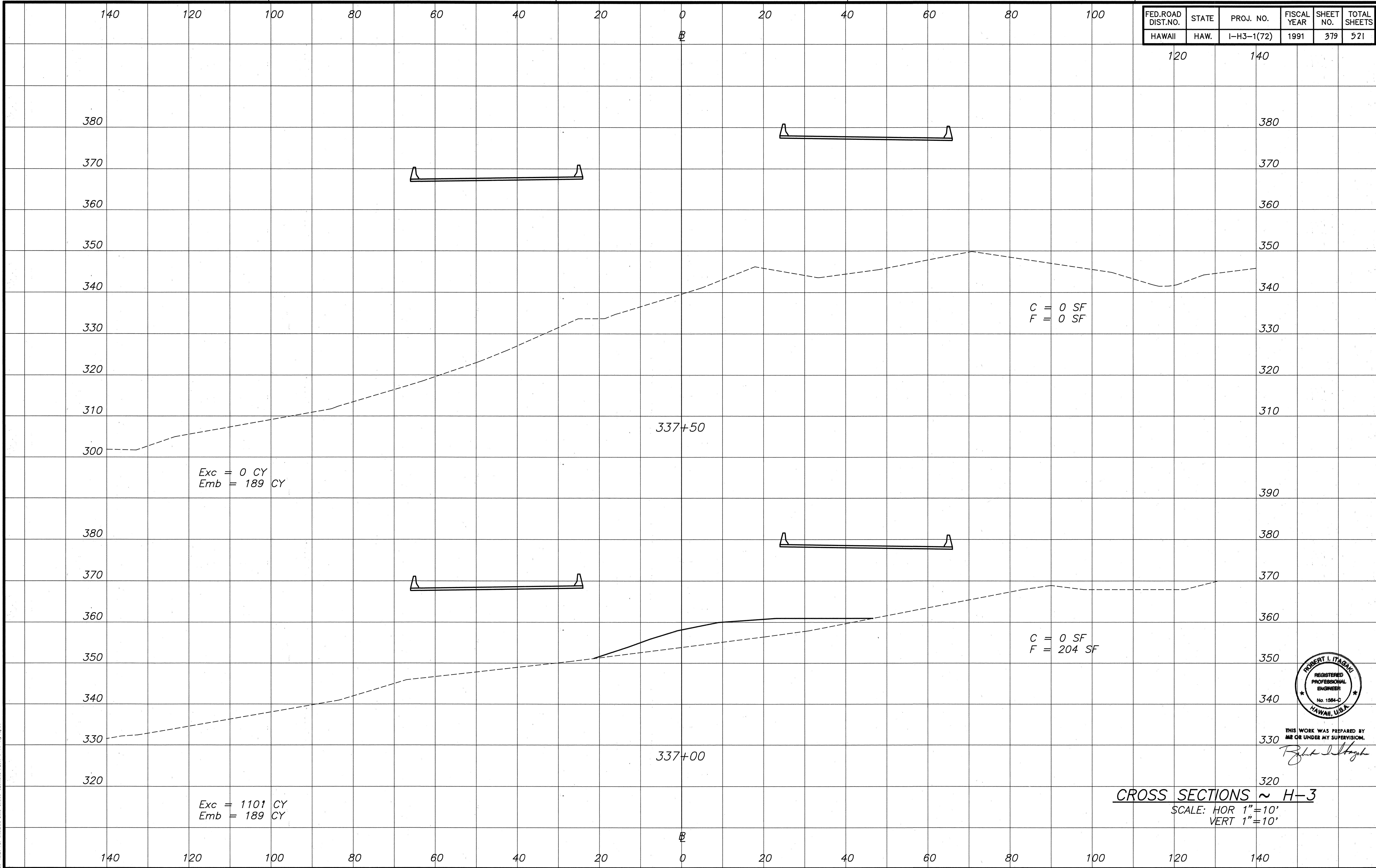
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert L. Itagaki

CROSS SECTIONS ~ H-3
 SCALE: HOR 1"=10'
 VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

83-4321 PY-SHEDDING AND CROSS-SECTIONS PLOT: 1=10 10/18/91

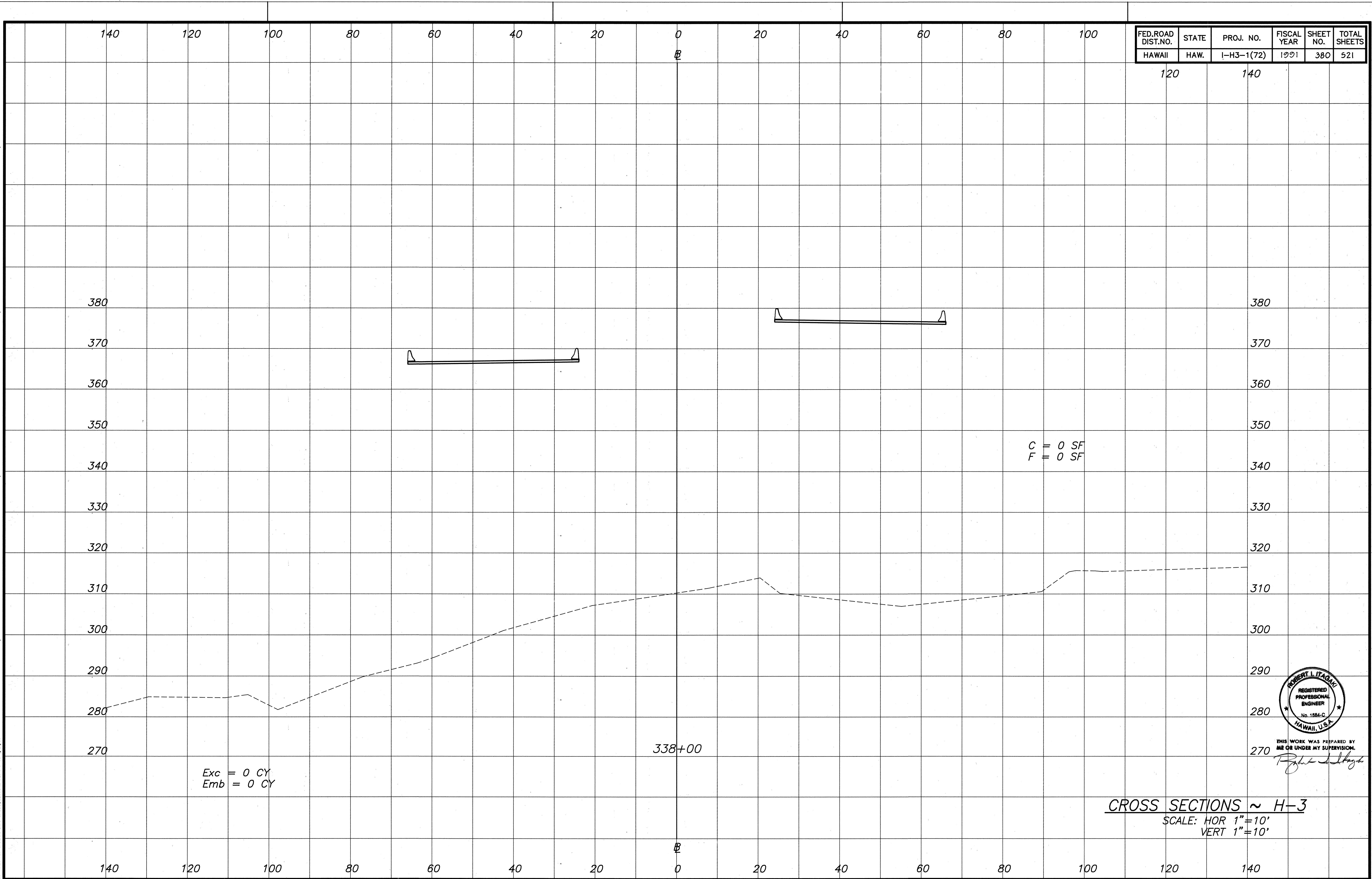
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	379	521



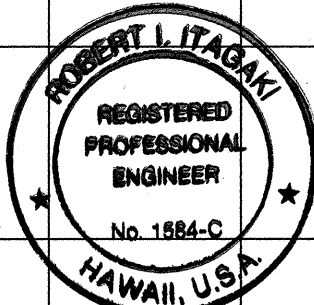
THIS WORK WAS PREPARED BY
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Robert I. Itagaki

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

88-4521 F&A-402 DMS 2ND CROSS-SECTIONS ELEV. 1+10 6/20/91



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	380	521

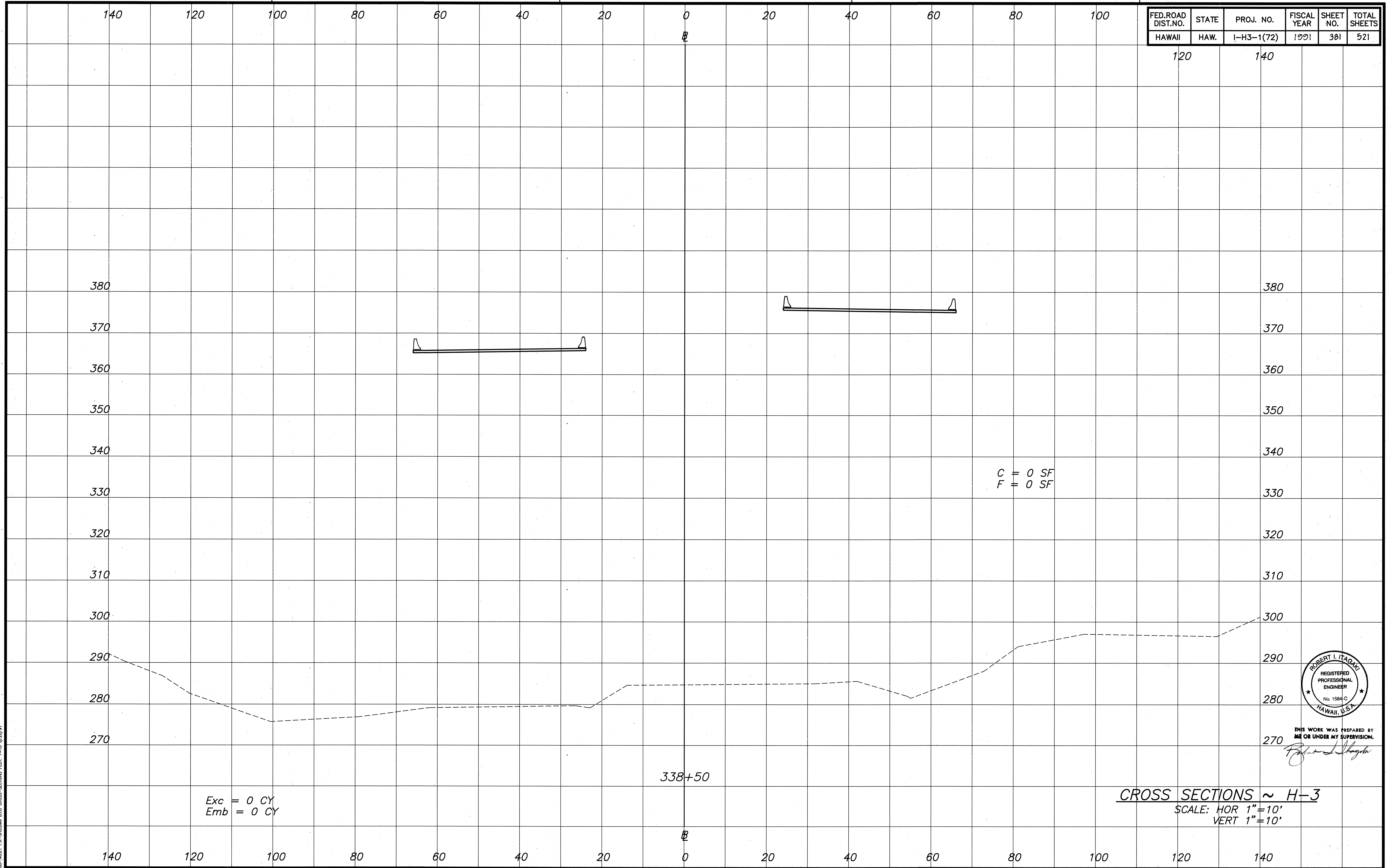


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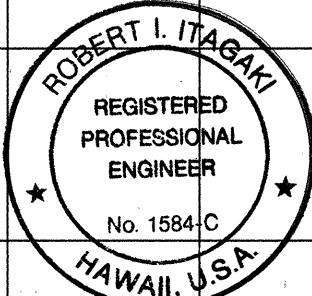
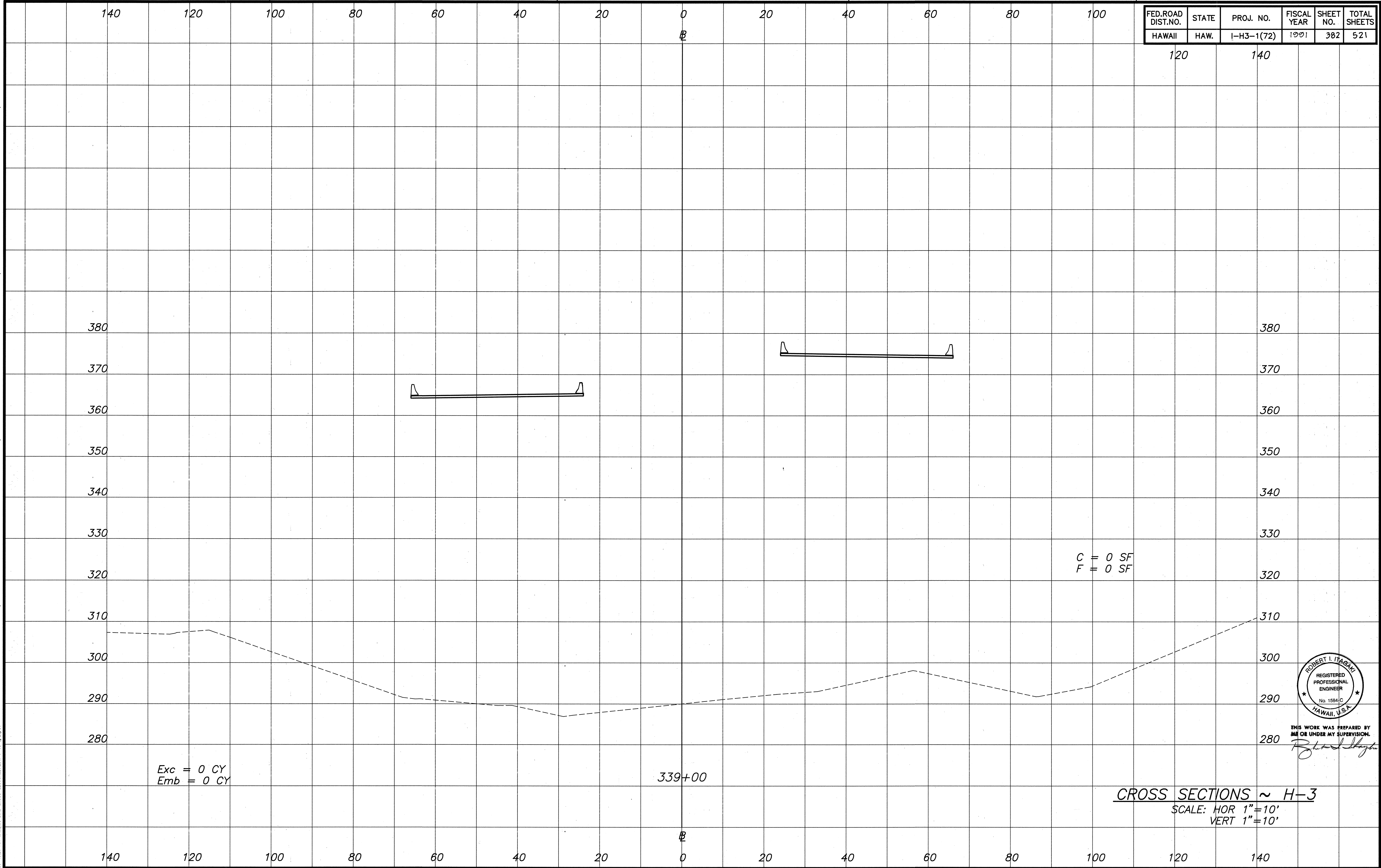
ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

24-4521 PL-SECTION 240 CROSS-SECTIONS 2401 1-10 6/20/91



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

28-421 F&E-601.06 DMS CROSS-SECTION PLOT 1"=10' 6/20/91

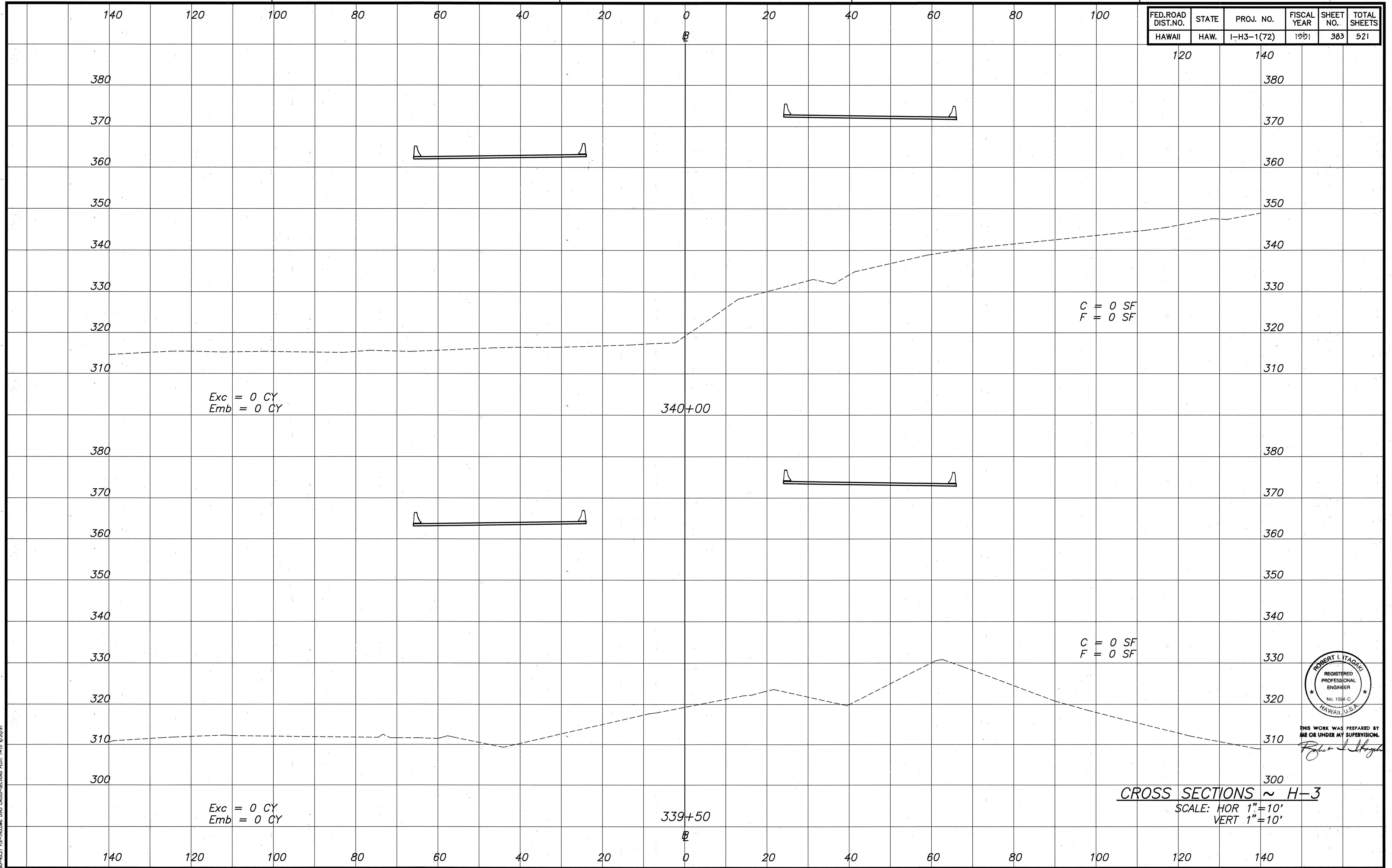


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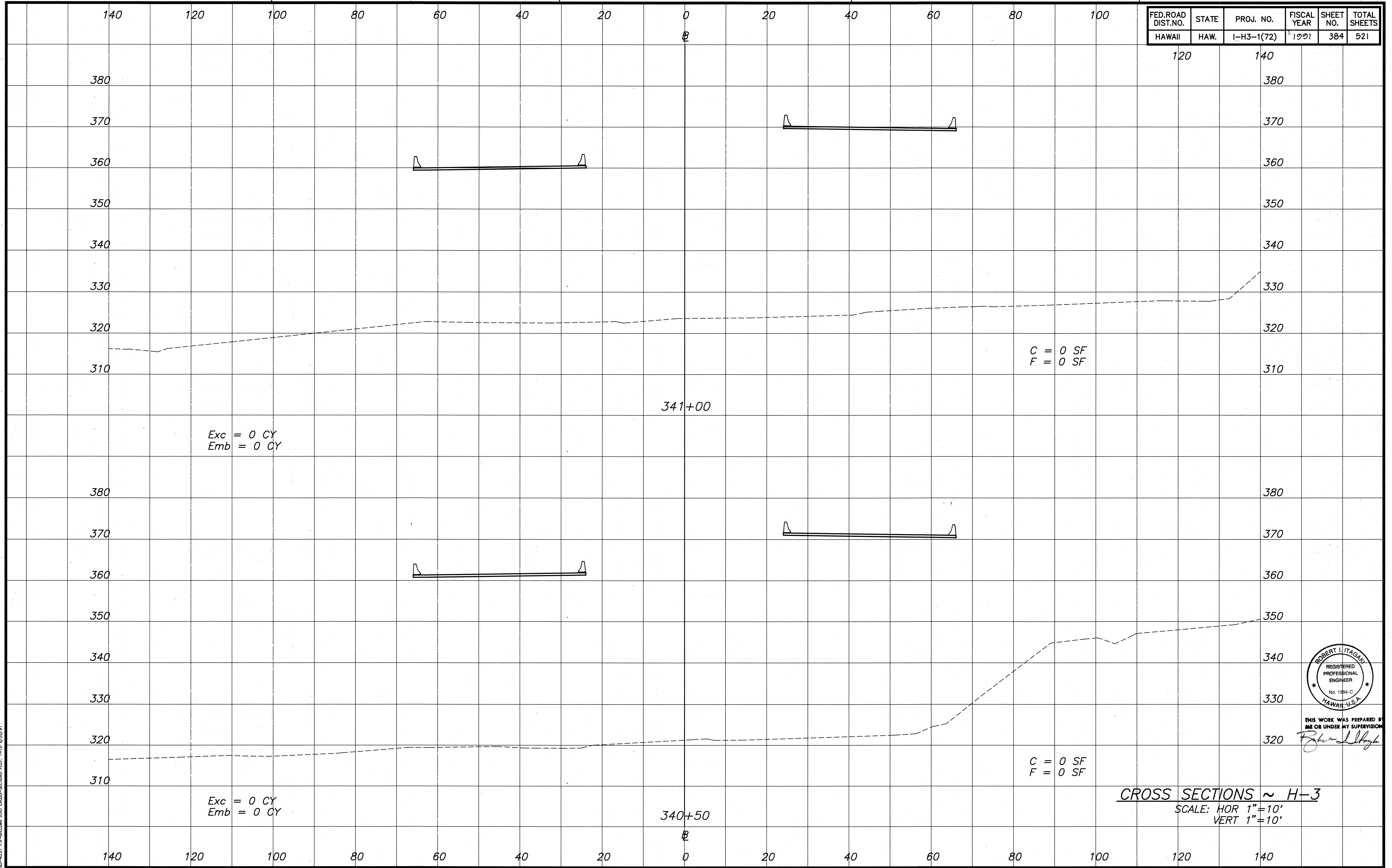
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	QUANTITIES BY	
	CHECKED BY	

85-621 FM-PALMCO DMS CROSS-SECTIONS PLOT 1-10 6/20/91

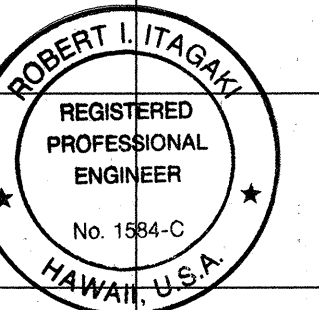


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

85-627 EX-627-627 CROSS-SECTION PLOT: 1-10 6/20/91.



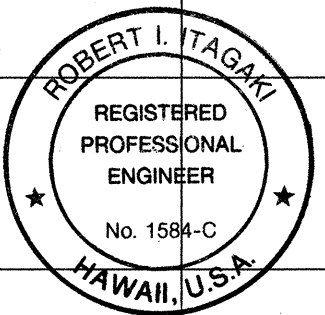
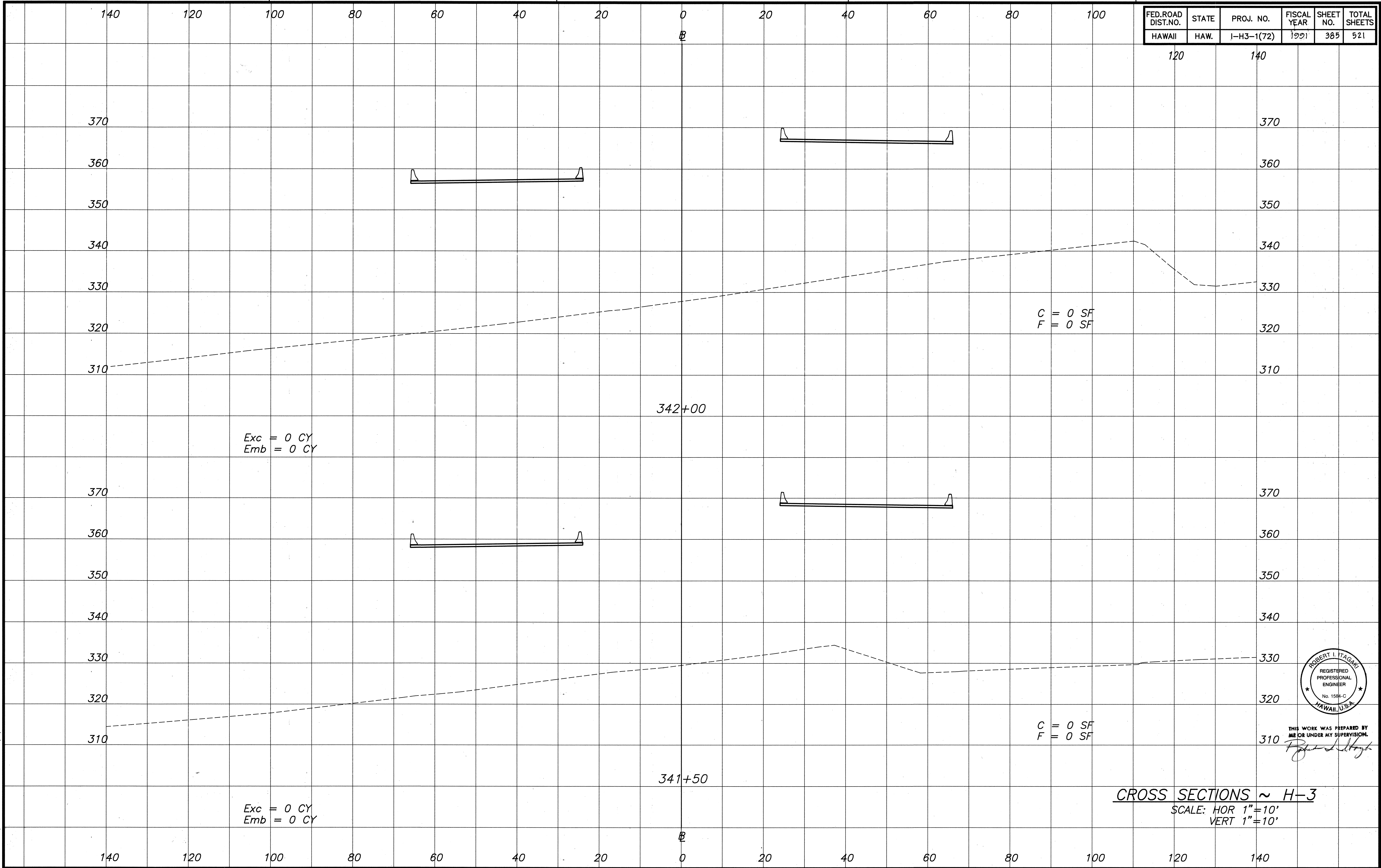
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	384	521



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Robert L. Itagay

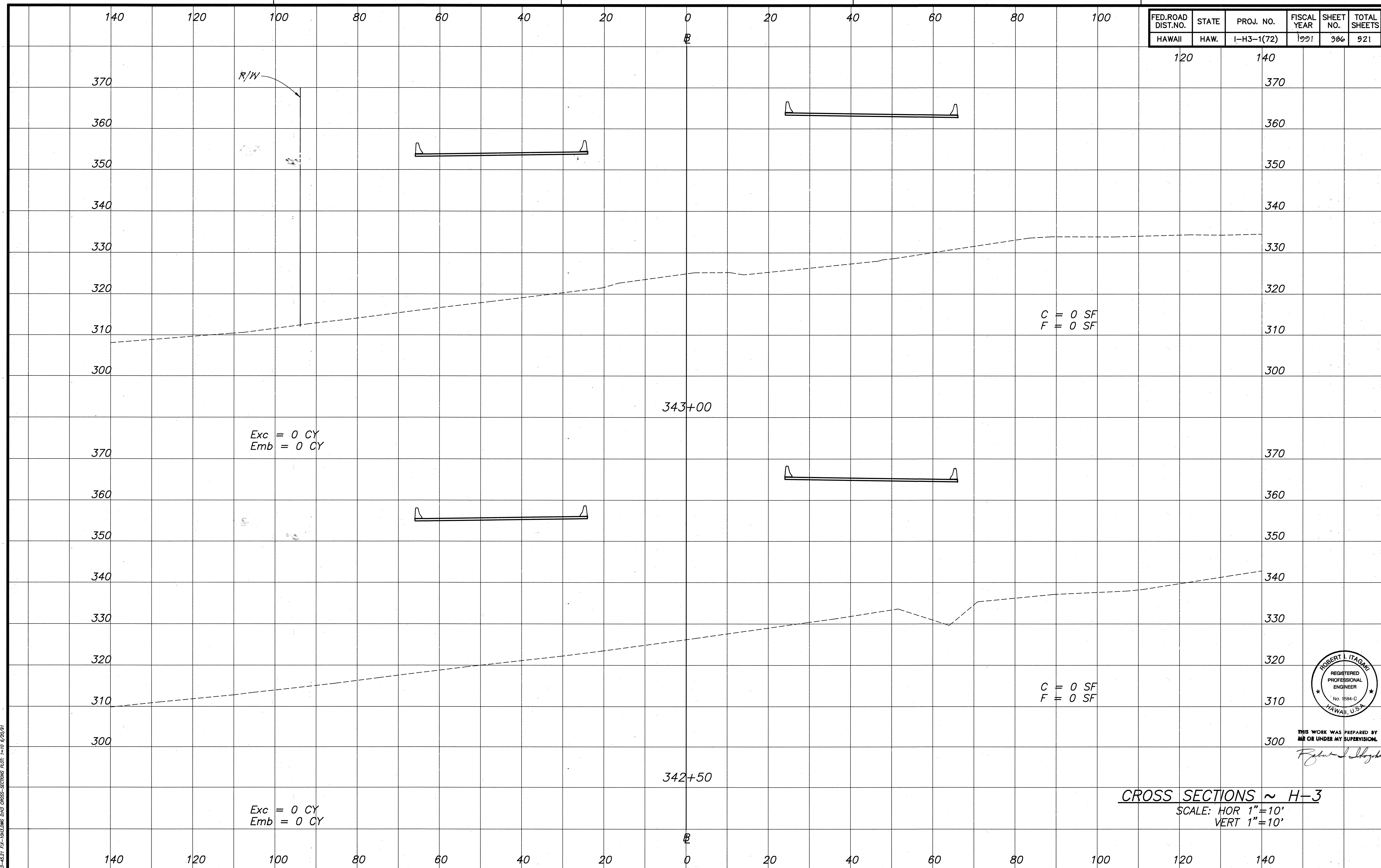
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

83-4621 PX-94JUNE DMS CROSS-SECTIONS PLOT: 1-10 6/20/91



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FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	386	521



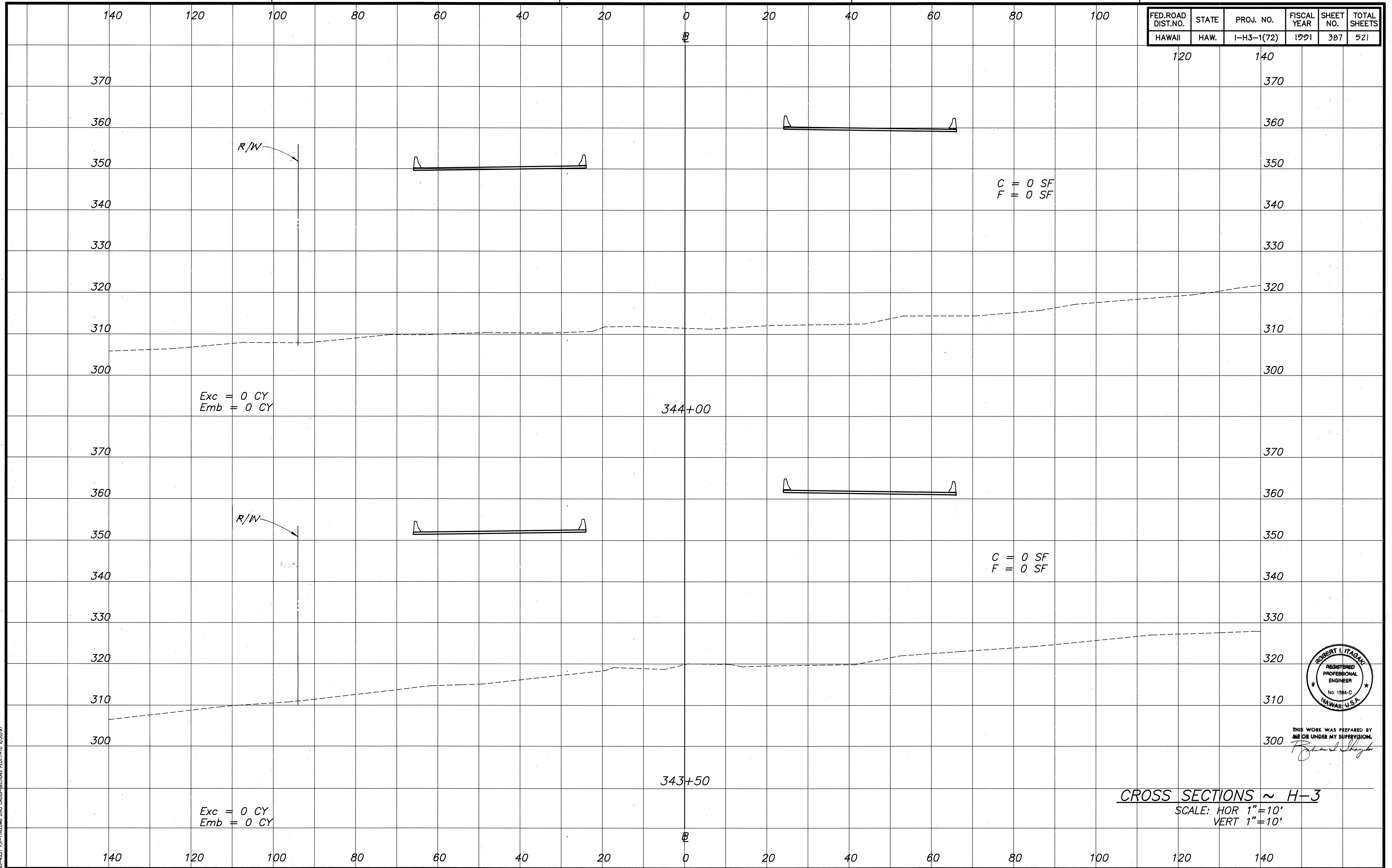
CROSS SECTIONS ~ H-3

SCALE: HOR 1"=10'
VERT 1"=10'

386

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

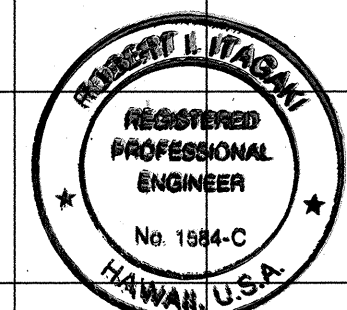
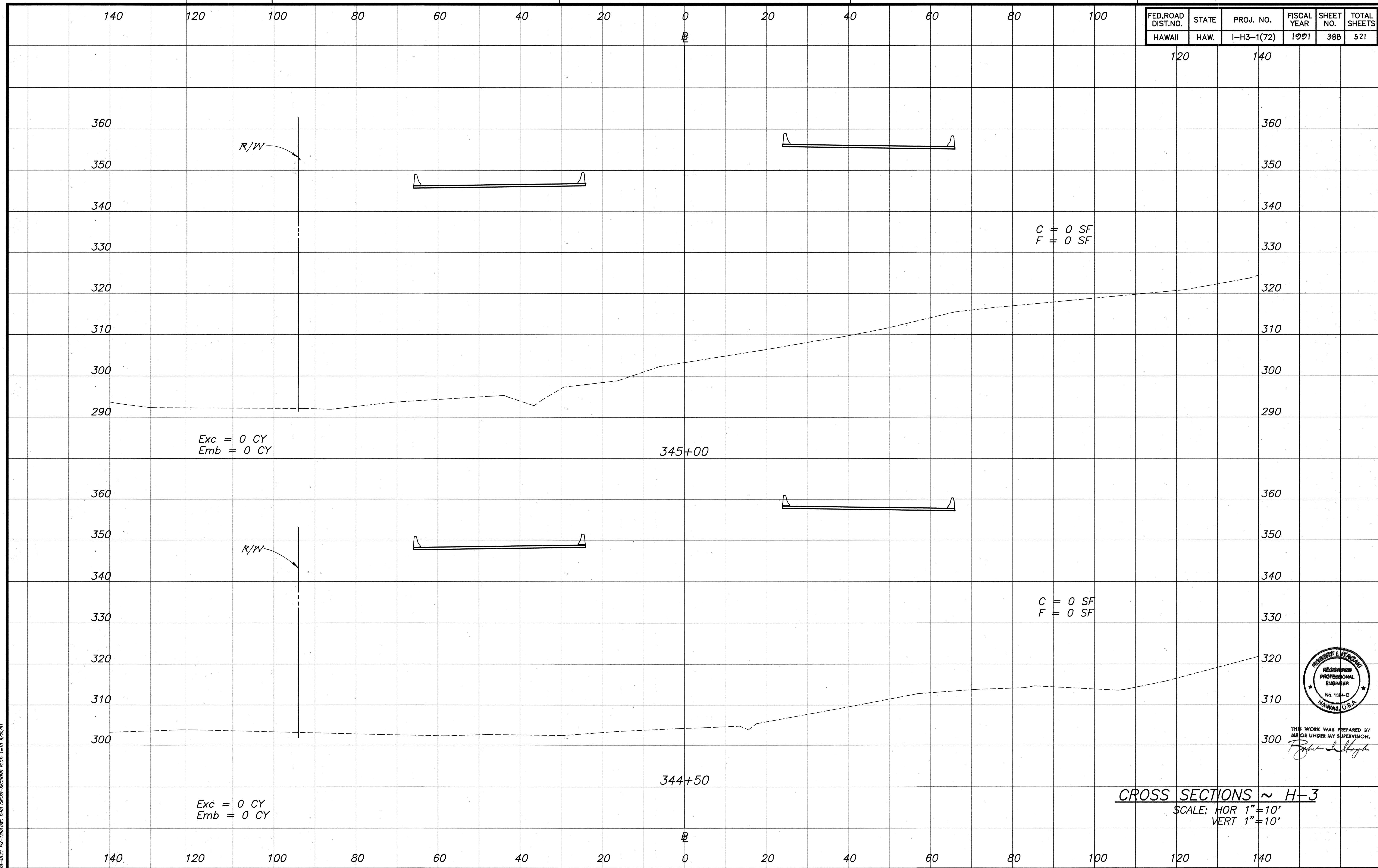
85-627 EX-HAWAII CROSS-SECTIONS PLOT-110 8/20/91



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

85-621 P&M-DRAWING DMS CROSS-SECTIONS PLOT: 11/16/2019

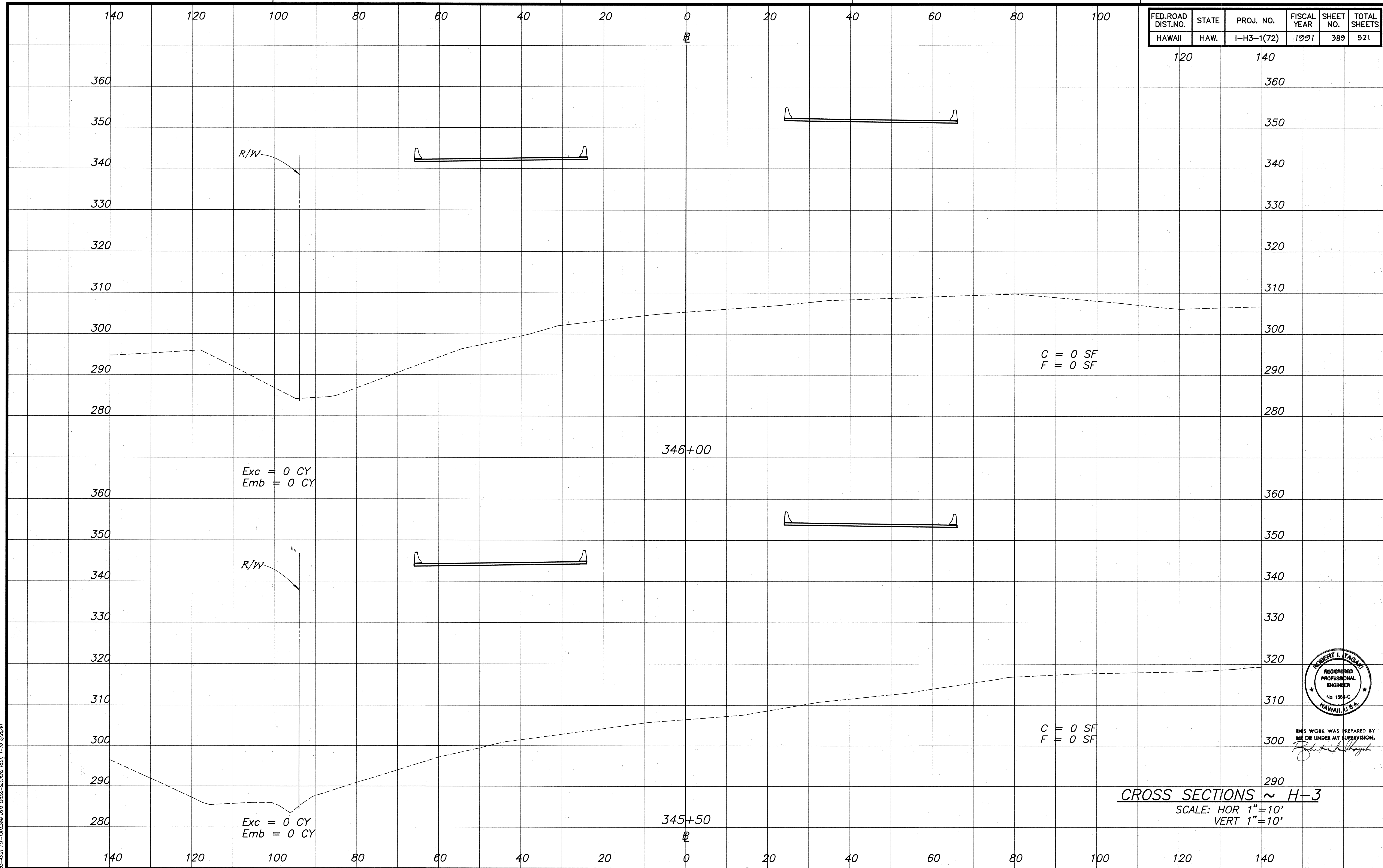
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	388	521



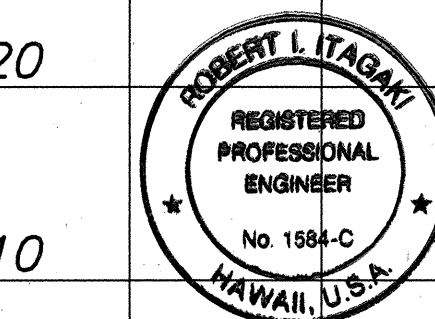
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Robert L. Taggart

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

83-521 FH-DRIVING AND CROSS-SECTIONS PLAN, 10/6/20/91



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	389	521

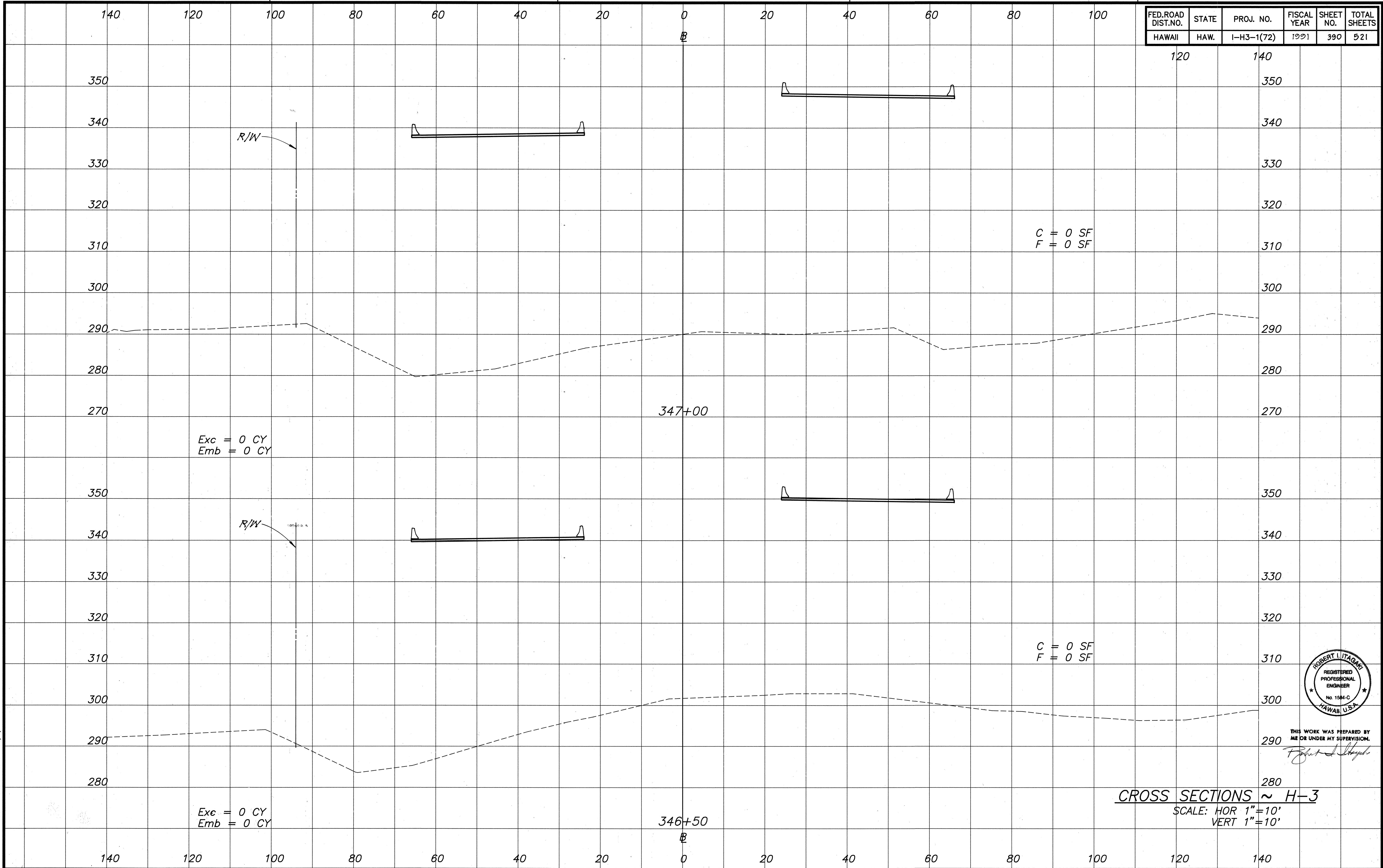


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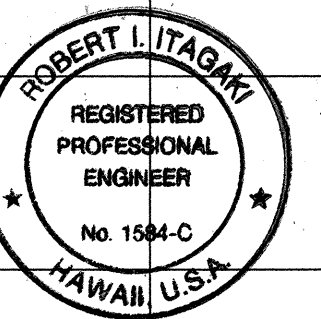
CROSS SECTIONS ~ H-3
SCALE: HOR 1"=10'
VERT 1"=10'

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

81-4521 P&H-MADONE D&S CROSS-SECTIONS PLAN 1-10 6/20/91

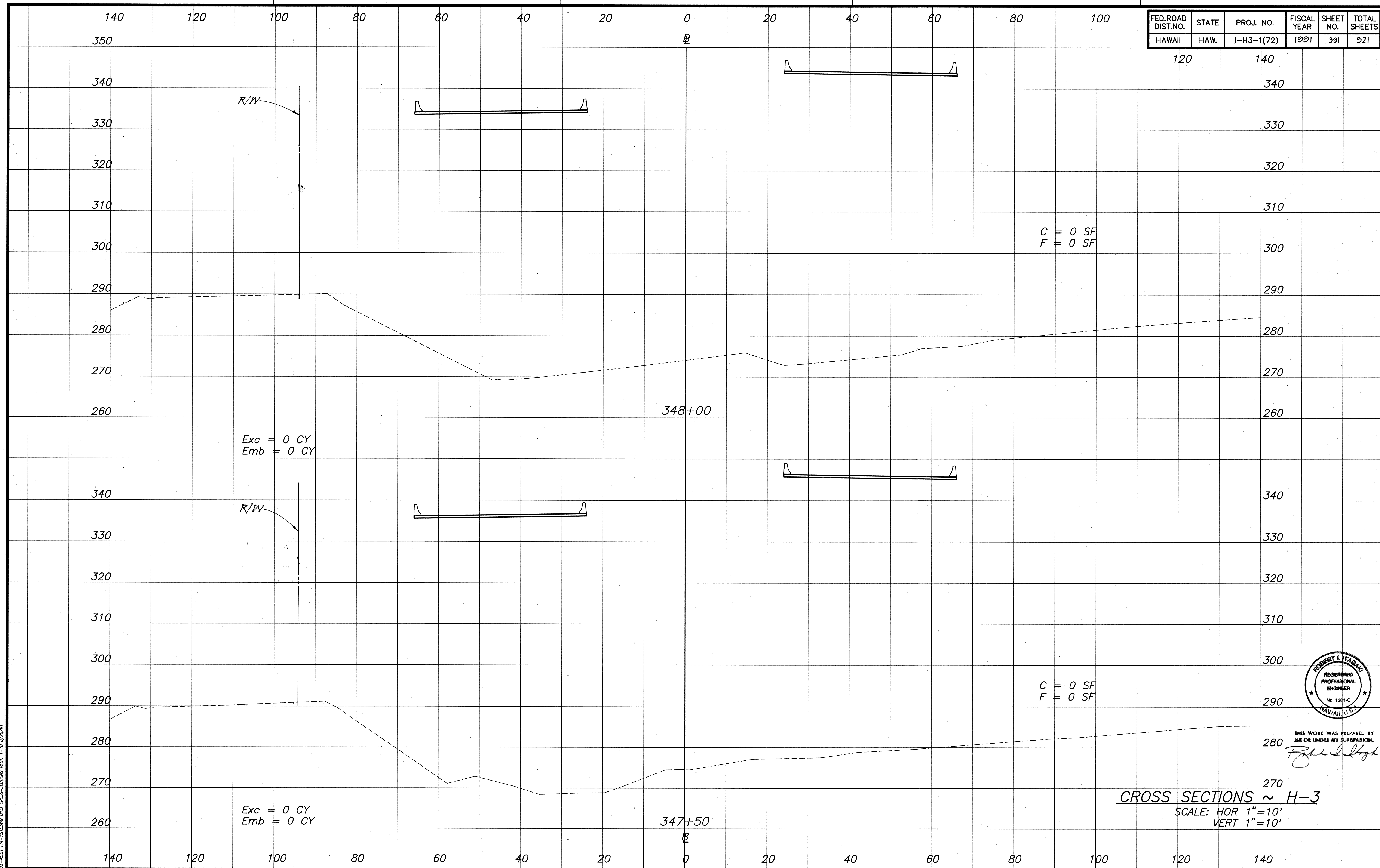


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	390	521



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FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	391	521



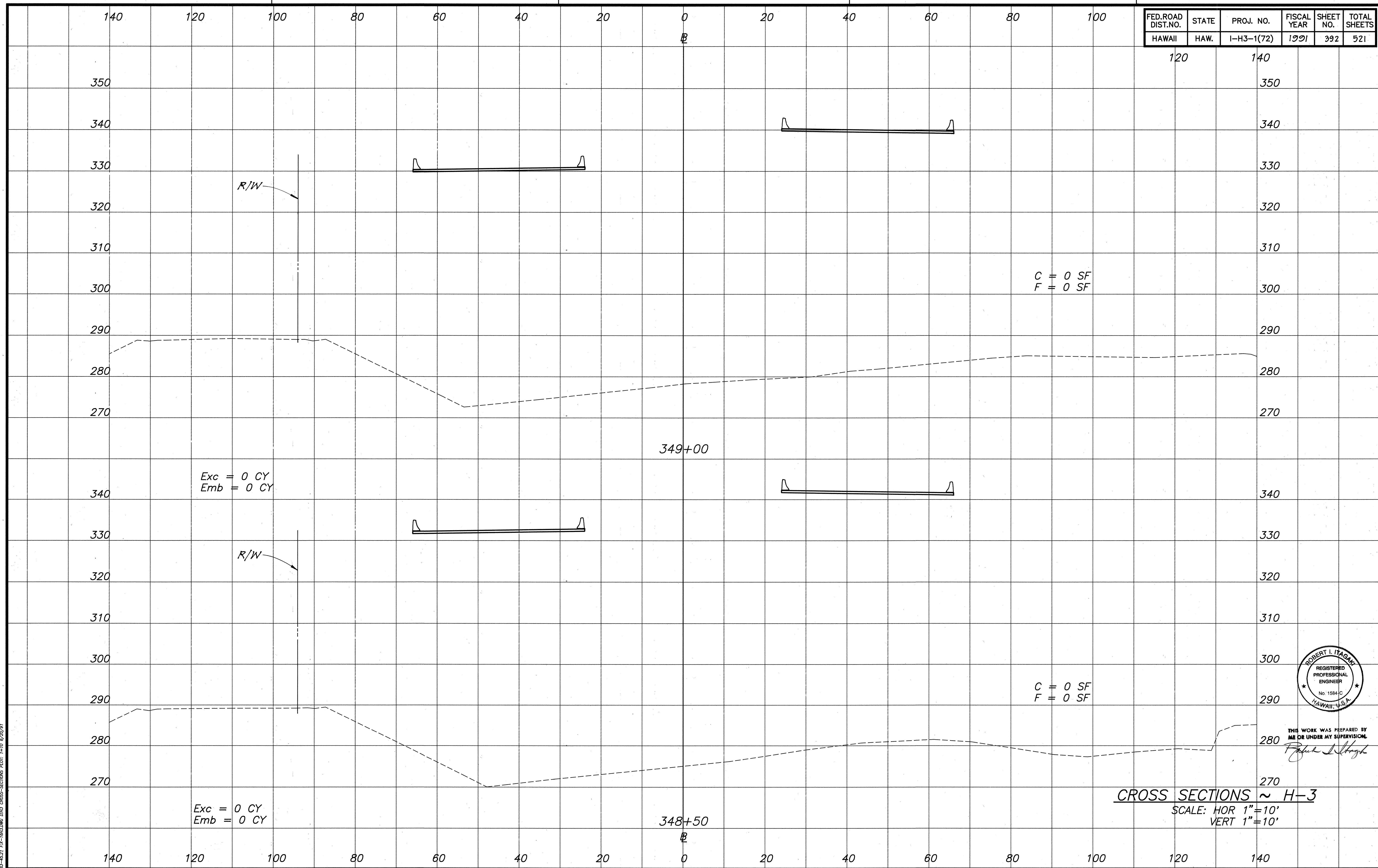
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Robert L. Hayes

CROSS SECTIONS ~ H-3
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	392	521

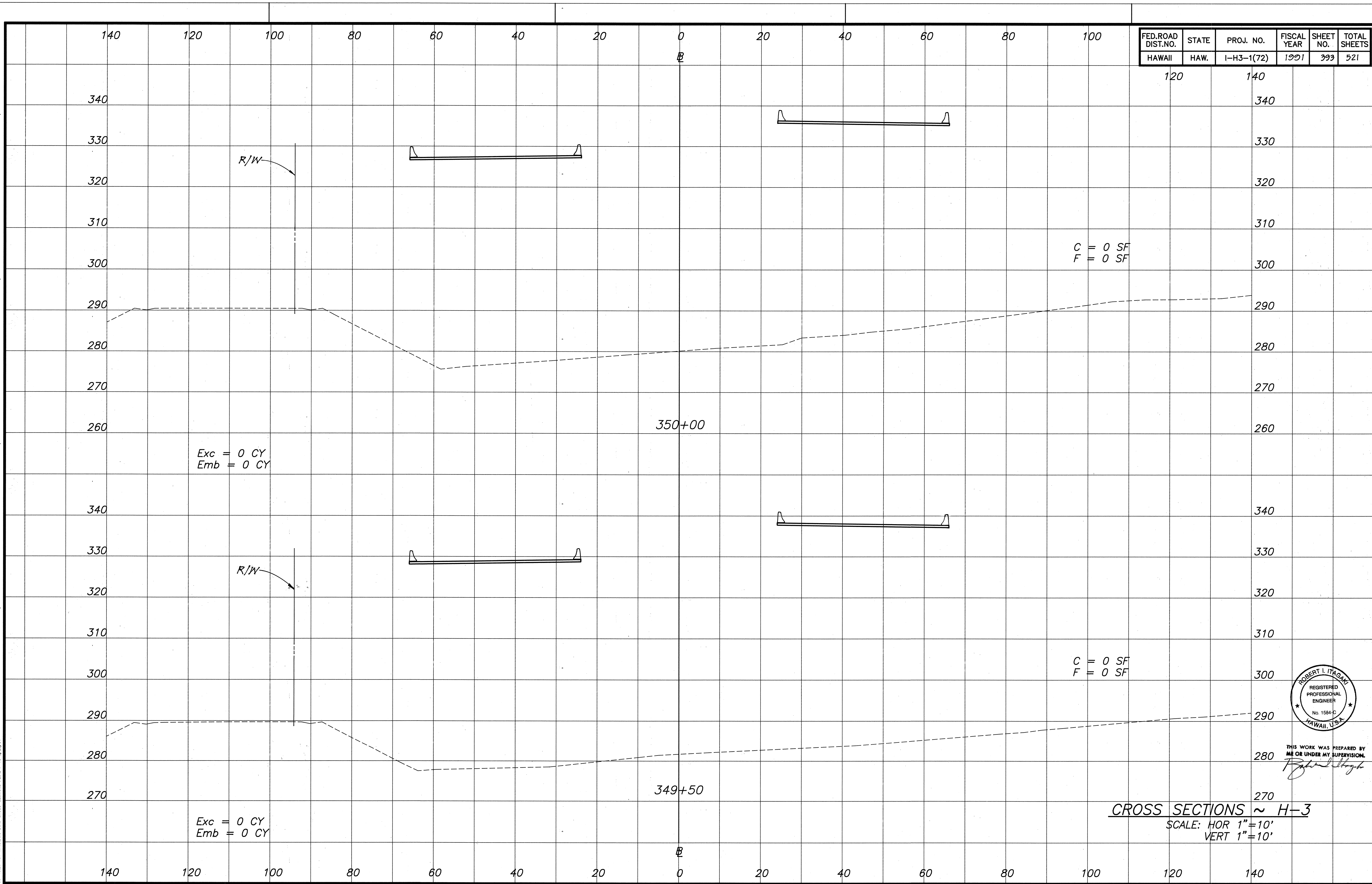
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	CHECKED BY	

24-421 P&E-BELOW D&G CROSS-SECTIONS PAGE 1-10 6/20/91

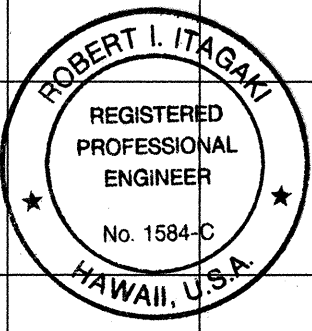


ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	
	No.	

88-6527 EX-TRAILING GRADE CROSS-SECTIONS PLAT. 11-16-82/2091



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	393	521

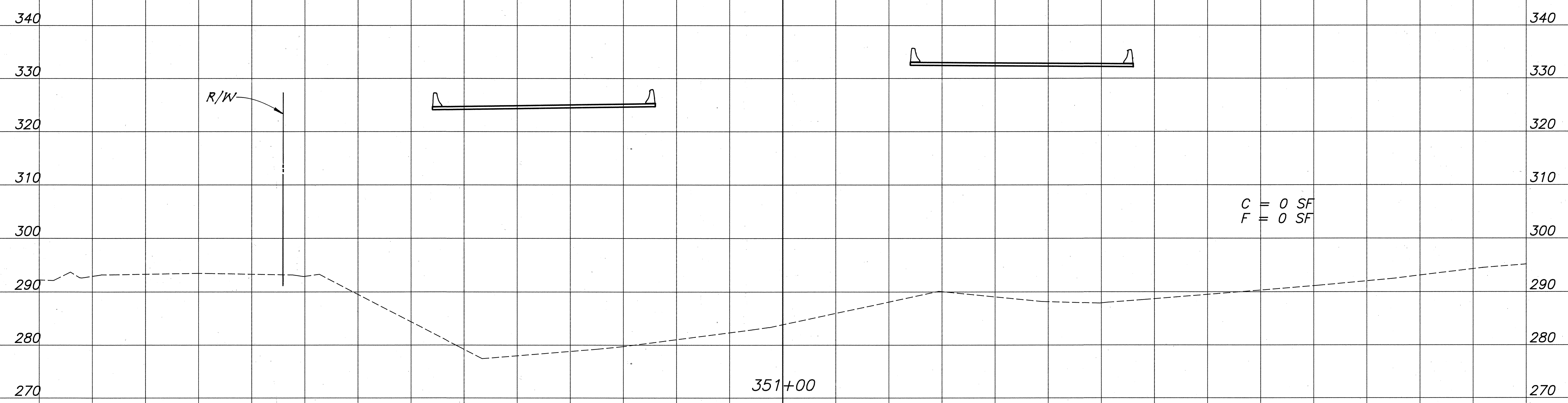


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[Signature]

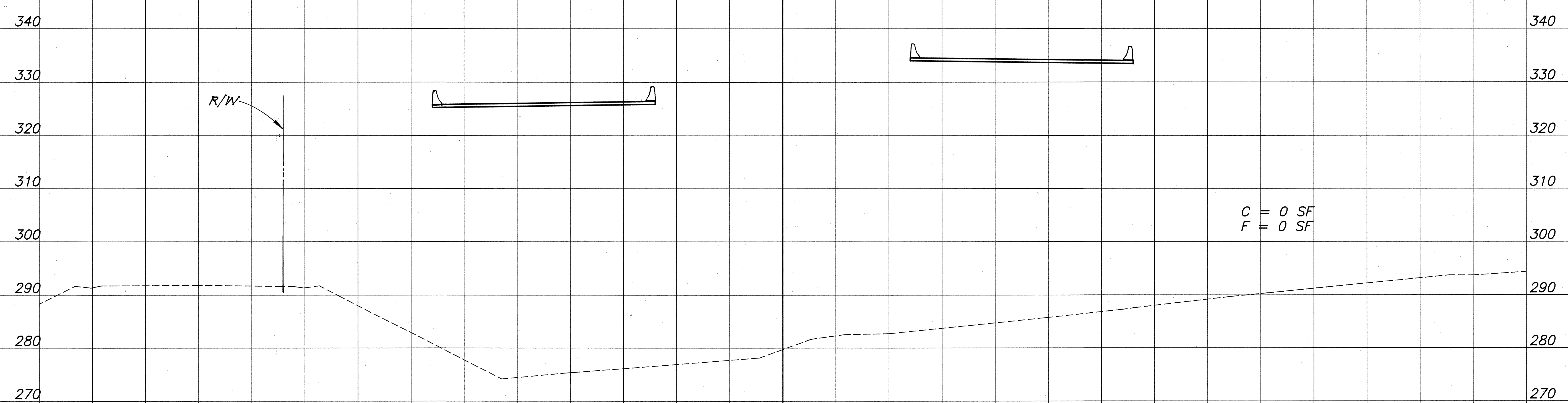
CROSS SECTIONS ~ H-3
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	394	521

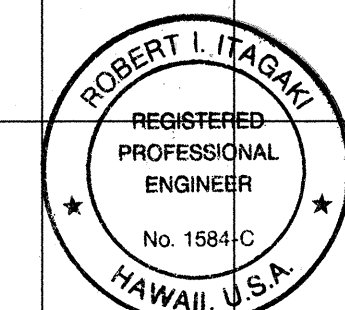
140 120 100 80 60 40 20 0 20 40 60 80 100



C = 0 SF
F = 0 SF



C = 0 SF
F = 0 SF



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Robert L. Itasca

CROSS SECTIONS ~ H-3
SCALE: HOR 1"=10'
VERT 1"=10'

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

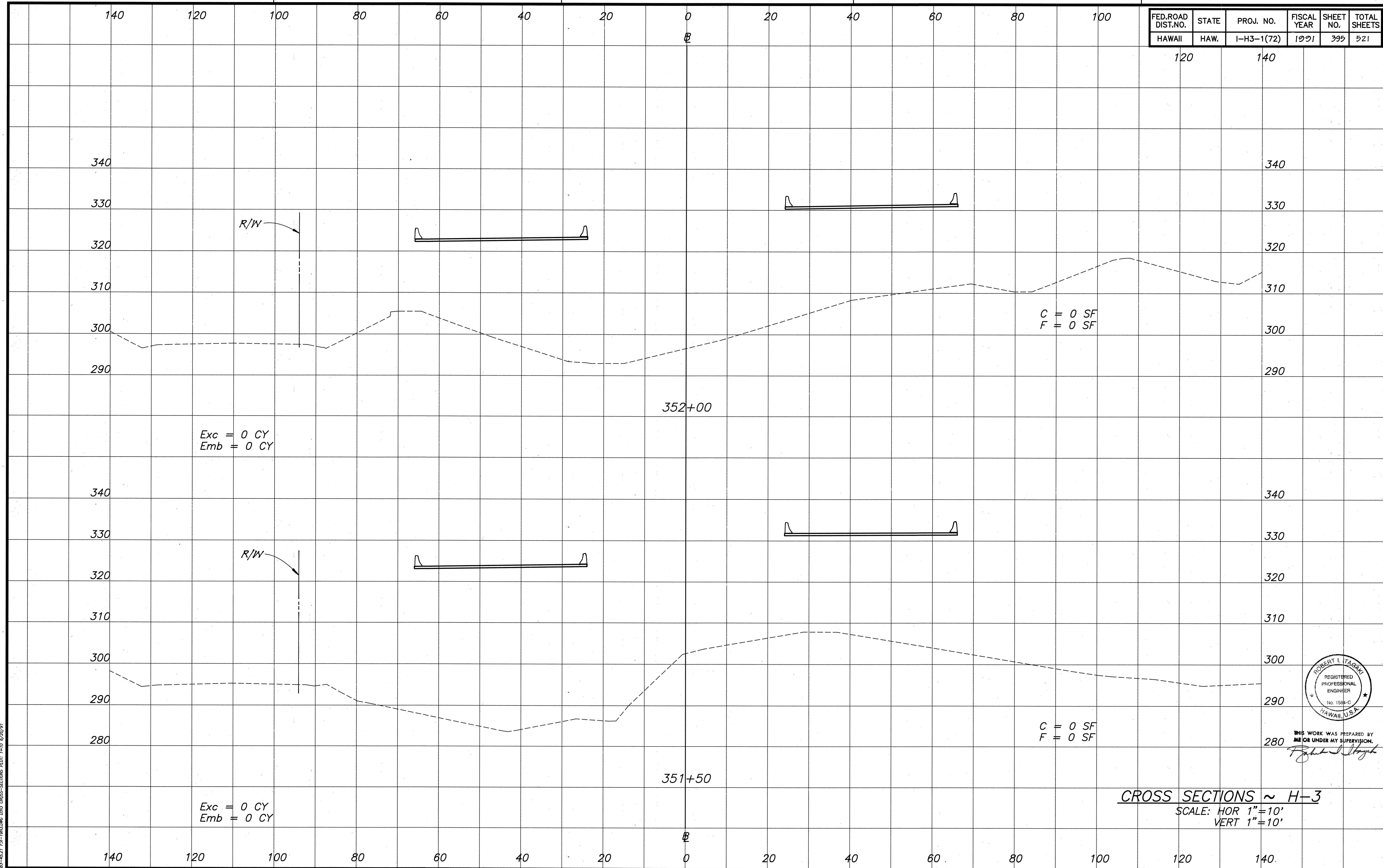
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
No.	

85-621 FAX-BUILDING DMS CROSS-SECTIONS PLAT. 1-10 6/20/91

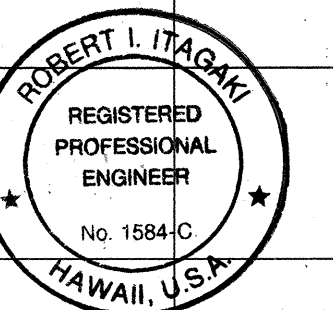
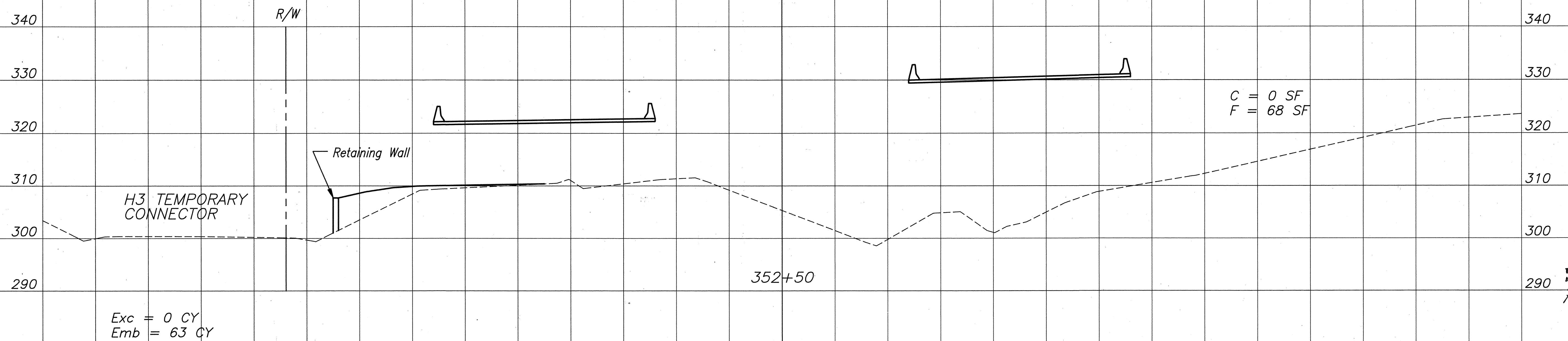
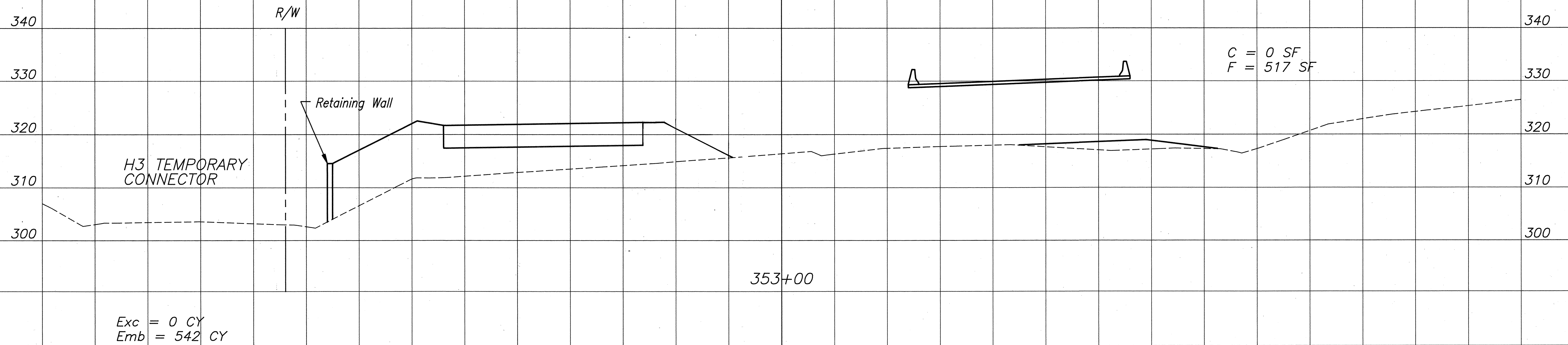
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

83-4521 FH-WAULING AND CROSS-SECTIONS PLAN: 1-10 8/20/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	395	521



FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 396	521



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Robert L. Hooper

CROSS SECTIONS ~ H-3

SCALE: HOR 1"=10'
VERT 1"=10'

4/21/94	Deleted Type A Guardrail @ 353+00
DATE	REVISION

C.O. 396

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

83-45.21 F:X-20H3.DWG D:H3 CROSS-SECTIONS PLOT: 1=10 10/18/91

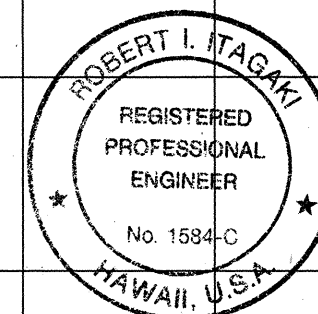
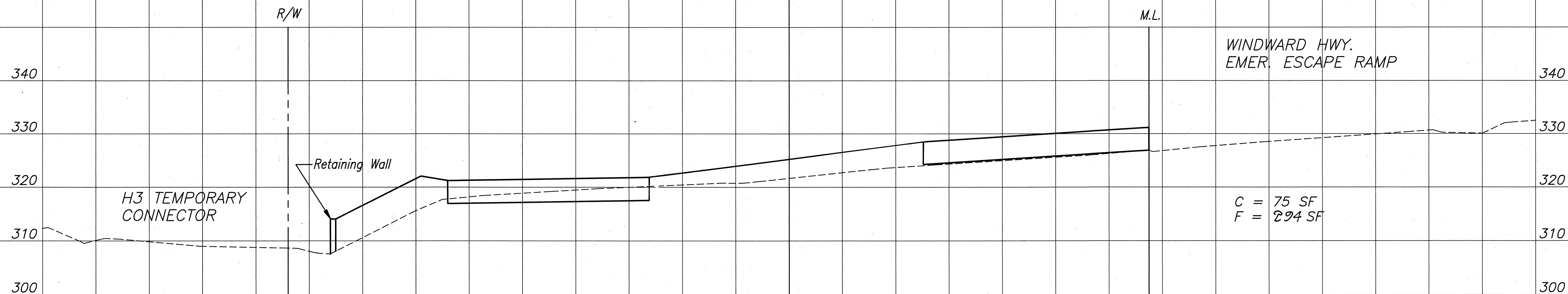
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

83-4621 FA-2143(L)ME D43 CROSS-SECTIONS PLAT 1-10 10/9/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 397	921

120 140

H3 KANEHOE INTERCHANGE:
Total Exc. = 29,101 cu. yds.
Total Emb. = 3,250 cu. yds.



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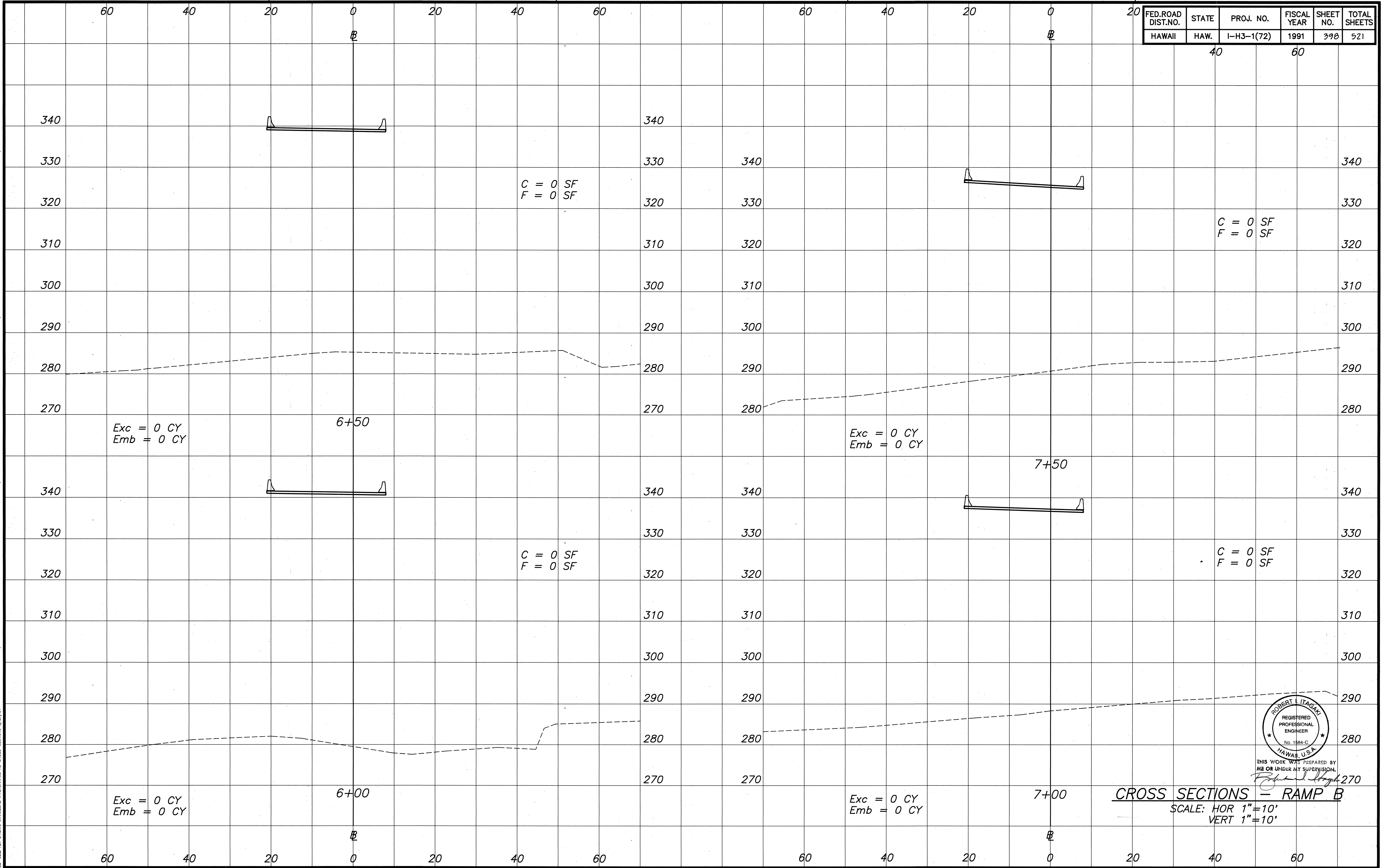
4/21/94	Deleted Type A Guardrail & Revised Median Graving. Revised Earthwork Quantities.
DATE	REVISION

CROSS SECTIONS ~ H-3
SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 397

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

23-462 P&H-DWG. INTERCHANGE A3 CROSS-SECTIONS 9/27/91



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	398	521

40 60

$C = 0 \text{ SF}$
 $F = 0 \text{ SF}$

$Exc = 0 \text{ CY}$
 $Emb = 0 \text{ CY}$

6+50

$Exc = 0 \text{ CY}$
 $Emb = 0 \text{ CY}$

7+50

$C = 0 \text{ SF}$
 $F = 0 \text{ SF}$

$C = 0 \text{ SF}$
 $F = 0 \text{ SF}$

$Exc = 0 \text{ CY}$
 $Emb = 0 \text{ CY}$

6+00

$Exc = 0 \text{ CY}$
 $Emb = 0 \text{ CY}$

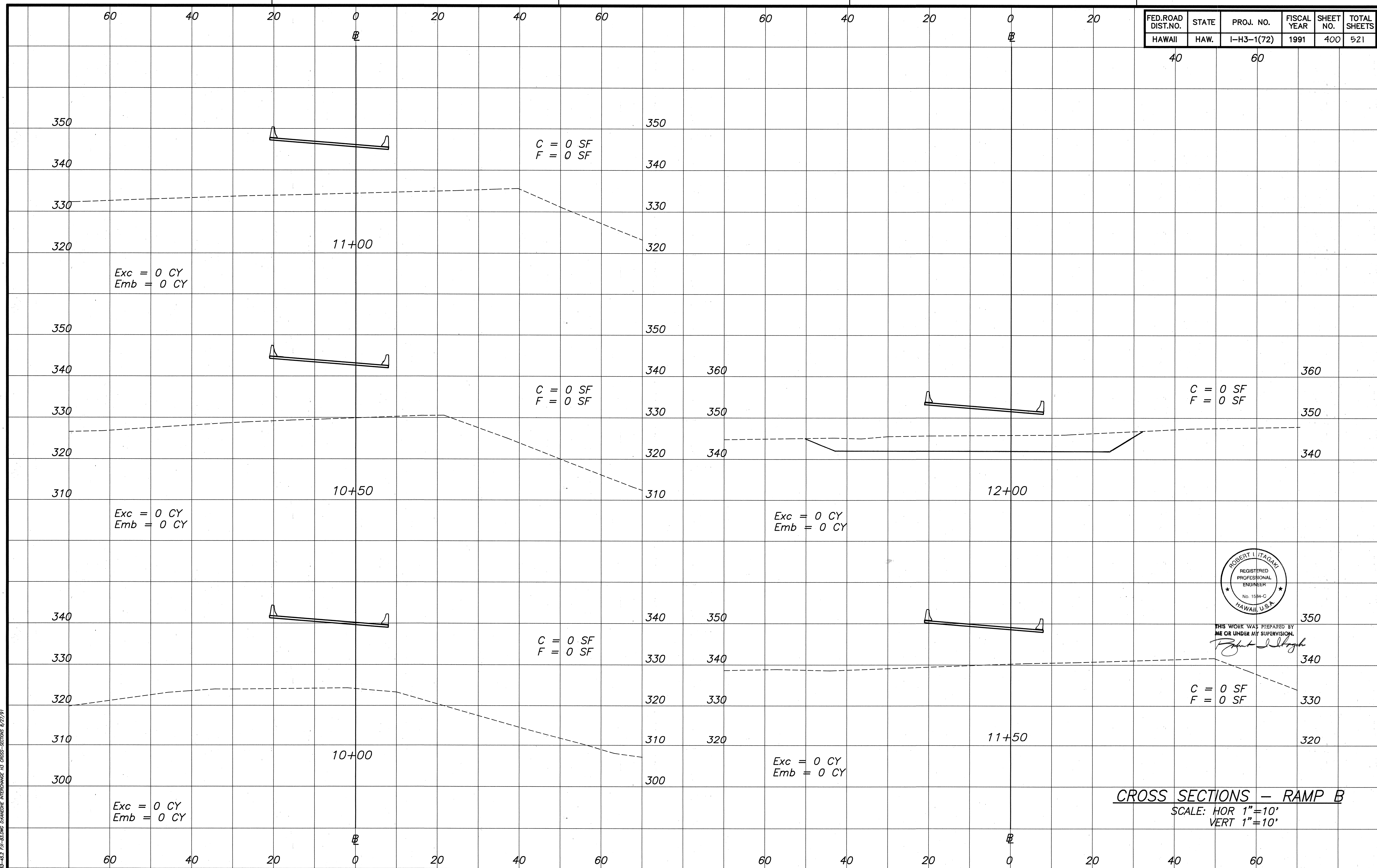
7+00



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Robert L. Itagaki

CROSS SECTIONS - RAMP B
SCALE: HOR 1"=10'
VERT 1"=10'

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	400	521



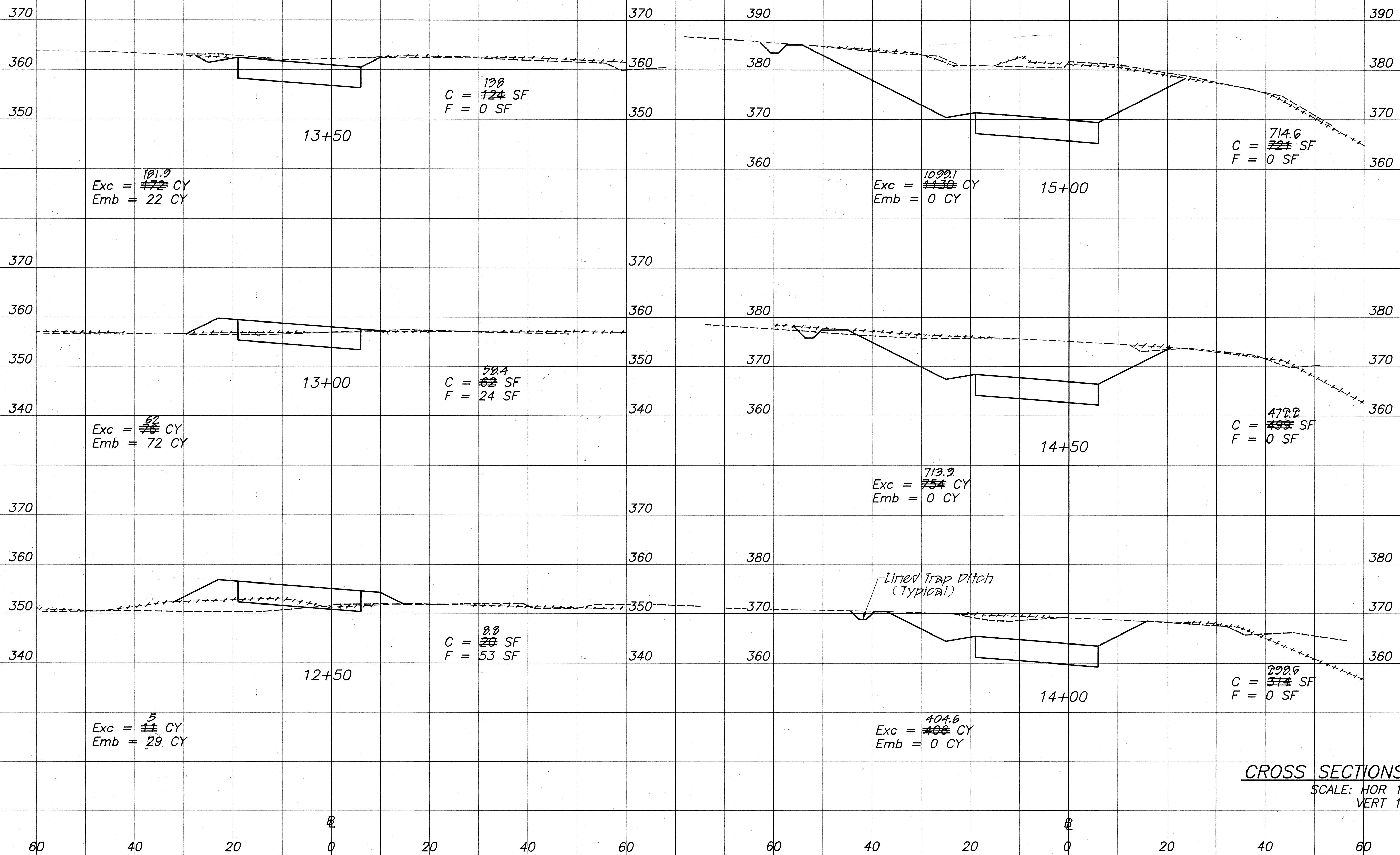
CROSS SECTIONS – RAMP B
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

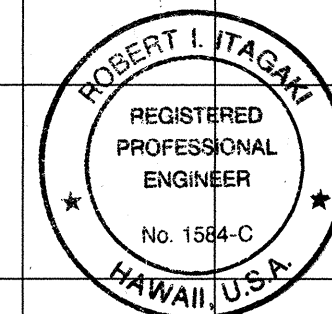
33-45 2 F:X-B1 DWG D-KANEOLF INTERCHANGE H3 CROSS-SECTIONS 8/27/91

400

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	401	521



CROSS SECTIONS - RAMP B
SCALE: HOR 1"=10'
VERT 1"=10'

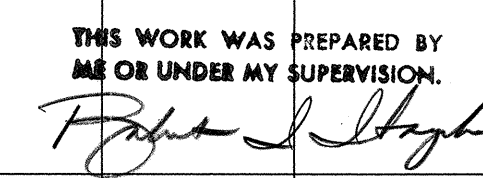


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Robert L. Itagaki

ORIGINAL PLAN	DATE
TRACED BY	
NOTED BY	
CHECKED BY	
No.	

83-462 EX-84-010 CHANGE INTERCHANGE #3 CROSS-SECTIONS 8/27/91

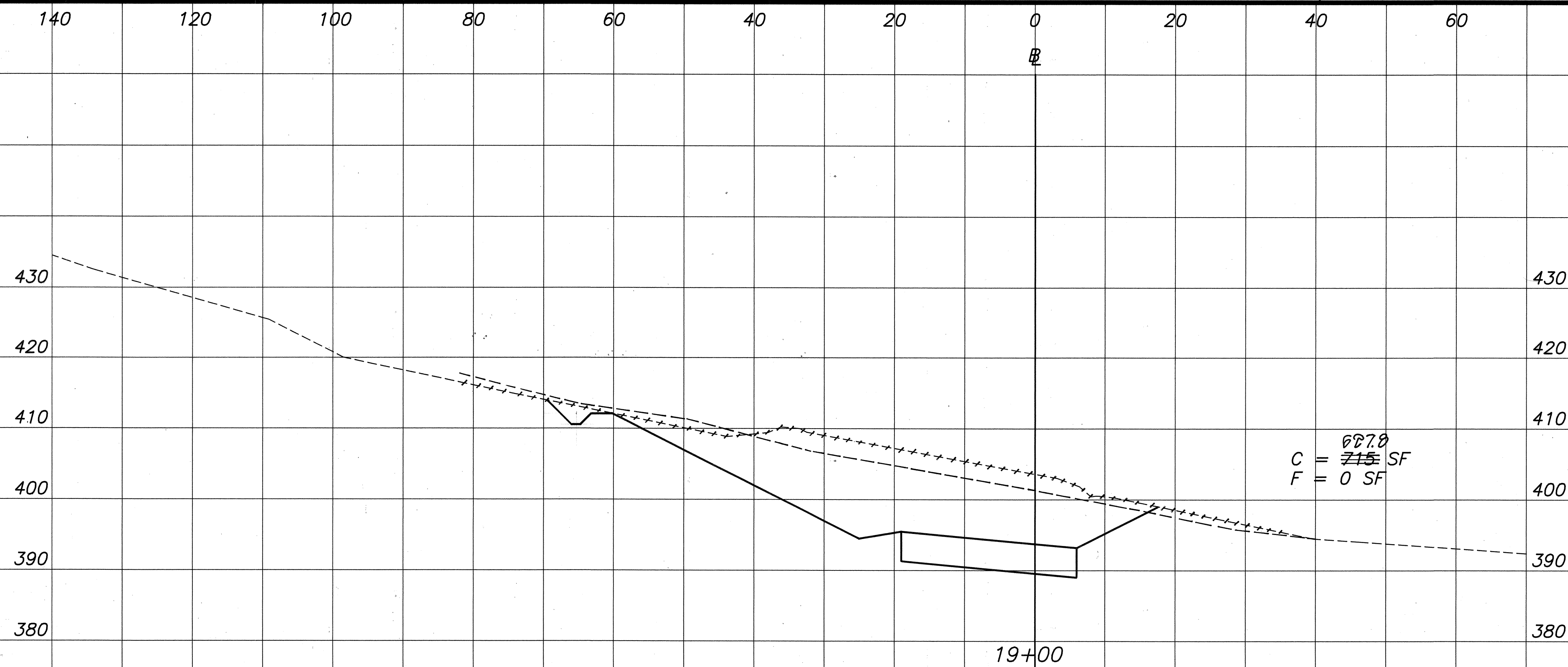
	40	60	
--	----	----	--



402

3-45 2 E-Y-85 DMC D-KAWOCH INTERCHANGE H3 CROSS-SECTIONS 8/27/91

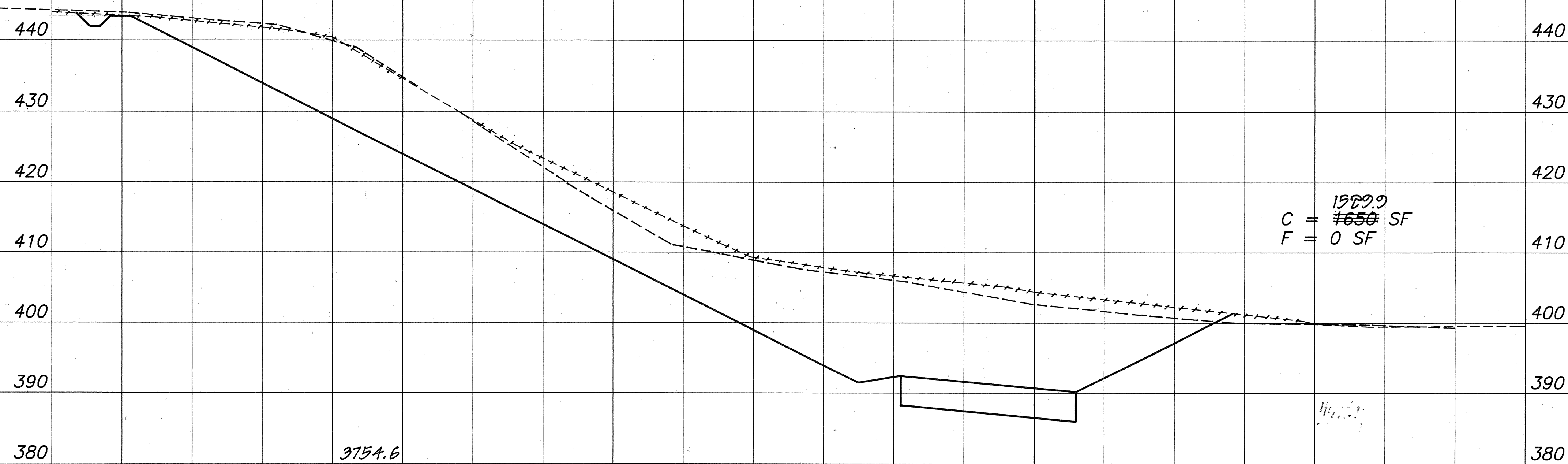
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	403	521



1228.2
Exc = ~~2190~~ CY
Emb = 0 CY

66.78
C = 715 SF
F = 0 SF

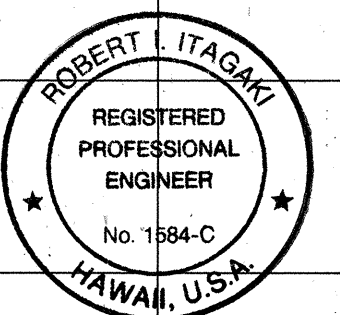
19+00



3754.6
Exc = ~~3662~~ CY
Emb = 0 CY

158.29
C = 1650 SF
F = 0 SF

18+50



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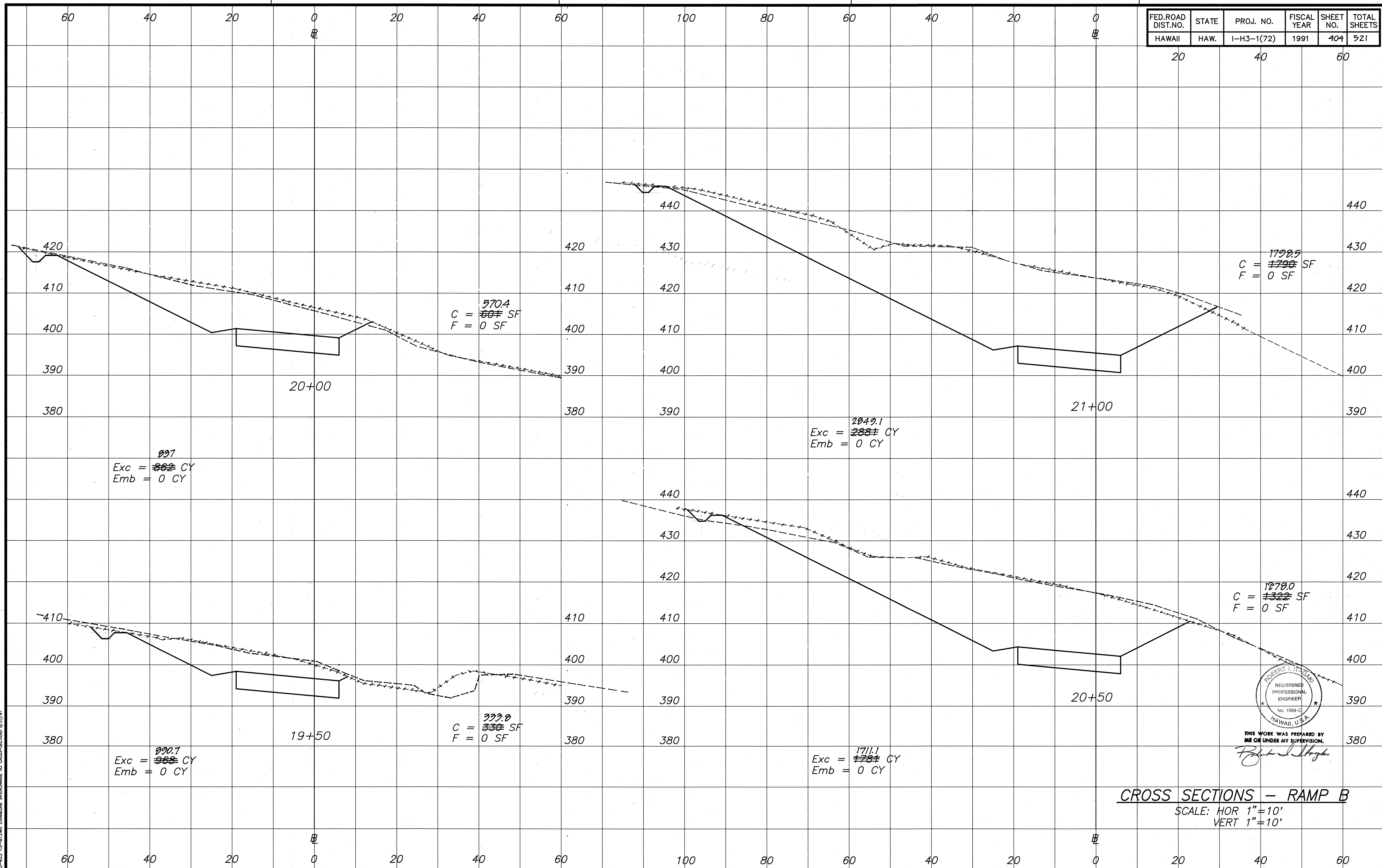
CROSS SECTIONS - RAMP B

SCALE: HOR 1"=10'
VERT 1"=10'

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
No.	

33-462 PLY-60-ONE DRAWING INTERCHANGE RD CROSS-SECTIONS 8/27/91.

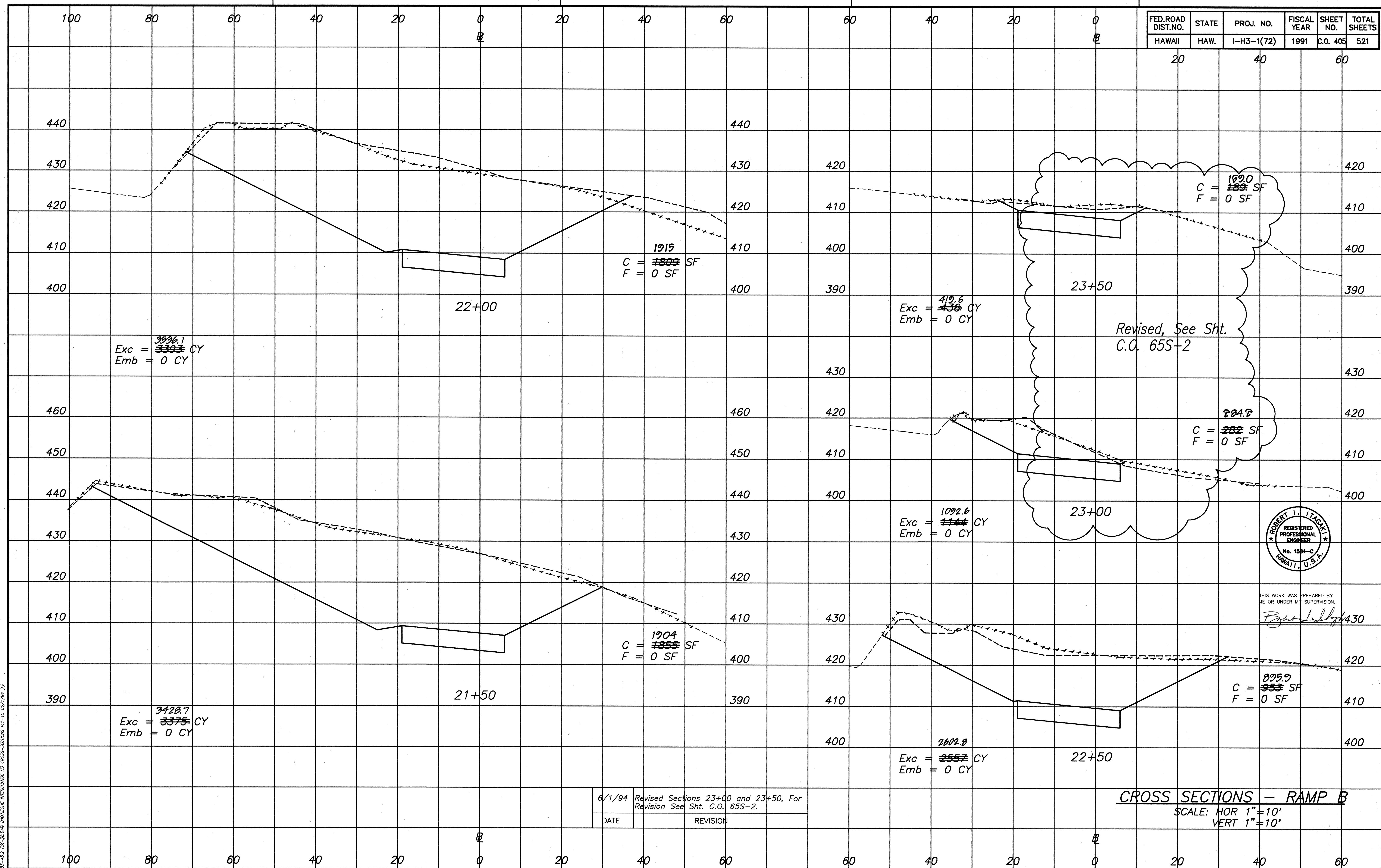
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	404	521



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

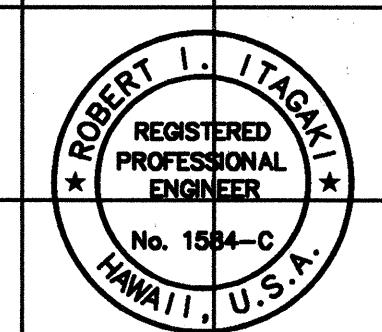
28-462 (3-87) DMC DRAWING INTERCHANGE 10 CROSS-SECTIONS 8/27/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 405	521



SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

6/1/94	Revised Sections 23+00 and 23+50, For Revision See Sht. C.O. 655-2.
DATE	REVISION

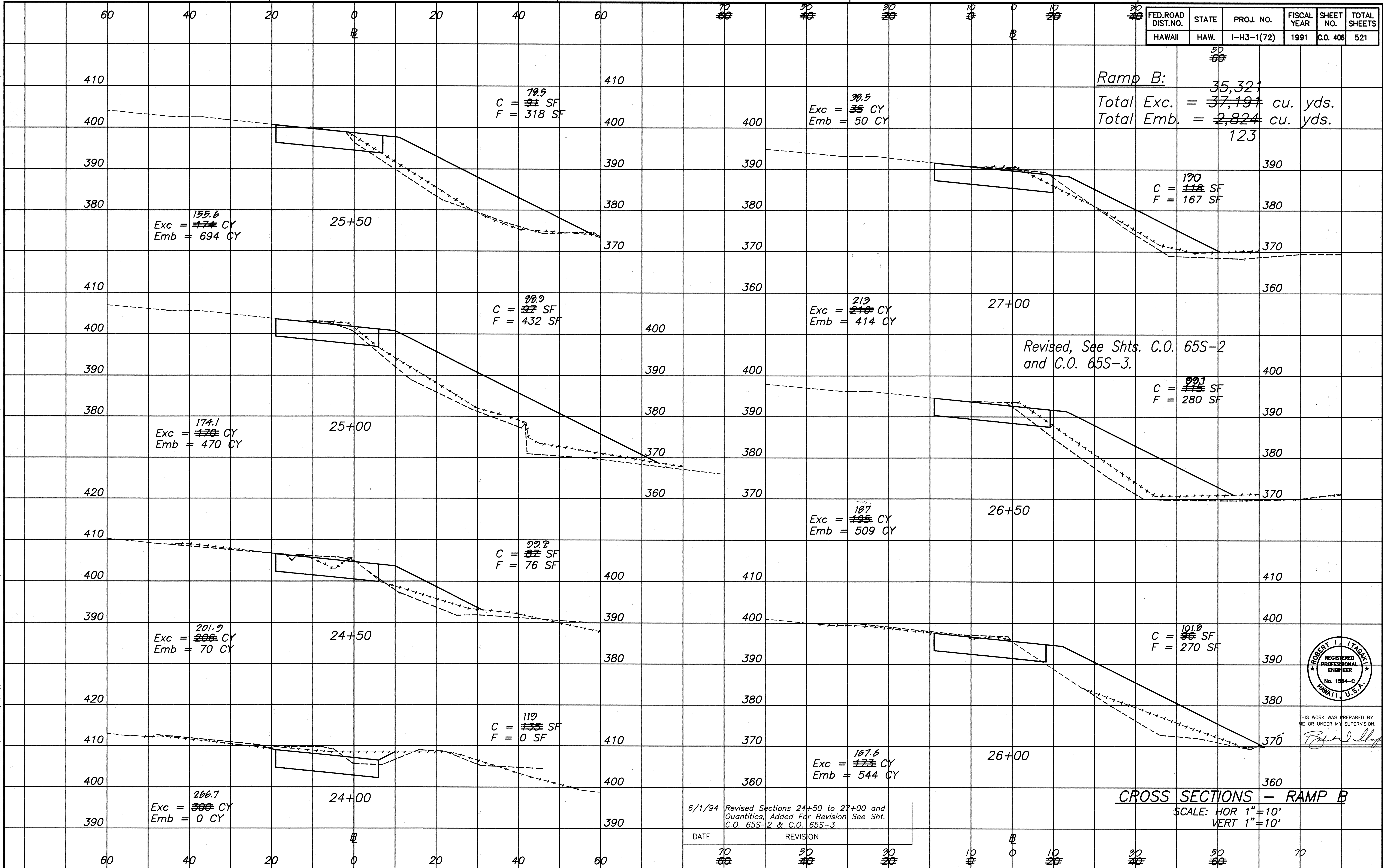


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ORIGINAL
PLAN
DATE
DRAWN BY
CHECKED BY
NOTED BY
QUANTITIES BY
CHECKED BY

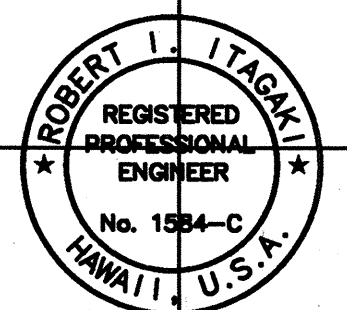
32-402 EX-88 DMC INTERCHANGE HI CROSS-SECTIONS P1-10 6/16/94 JH



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 406	521

Ramp B:
Total Exc. = 35,321 cu. yds.
Total Emb. = 2,824 cu. yds.

Revised, See Shts. C.O. 65S-2 and C.O. 65S-3.

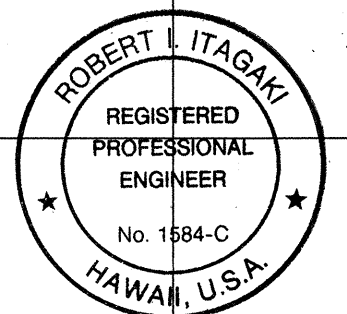
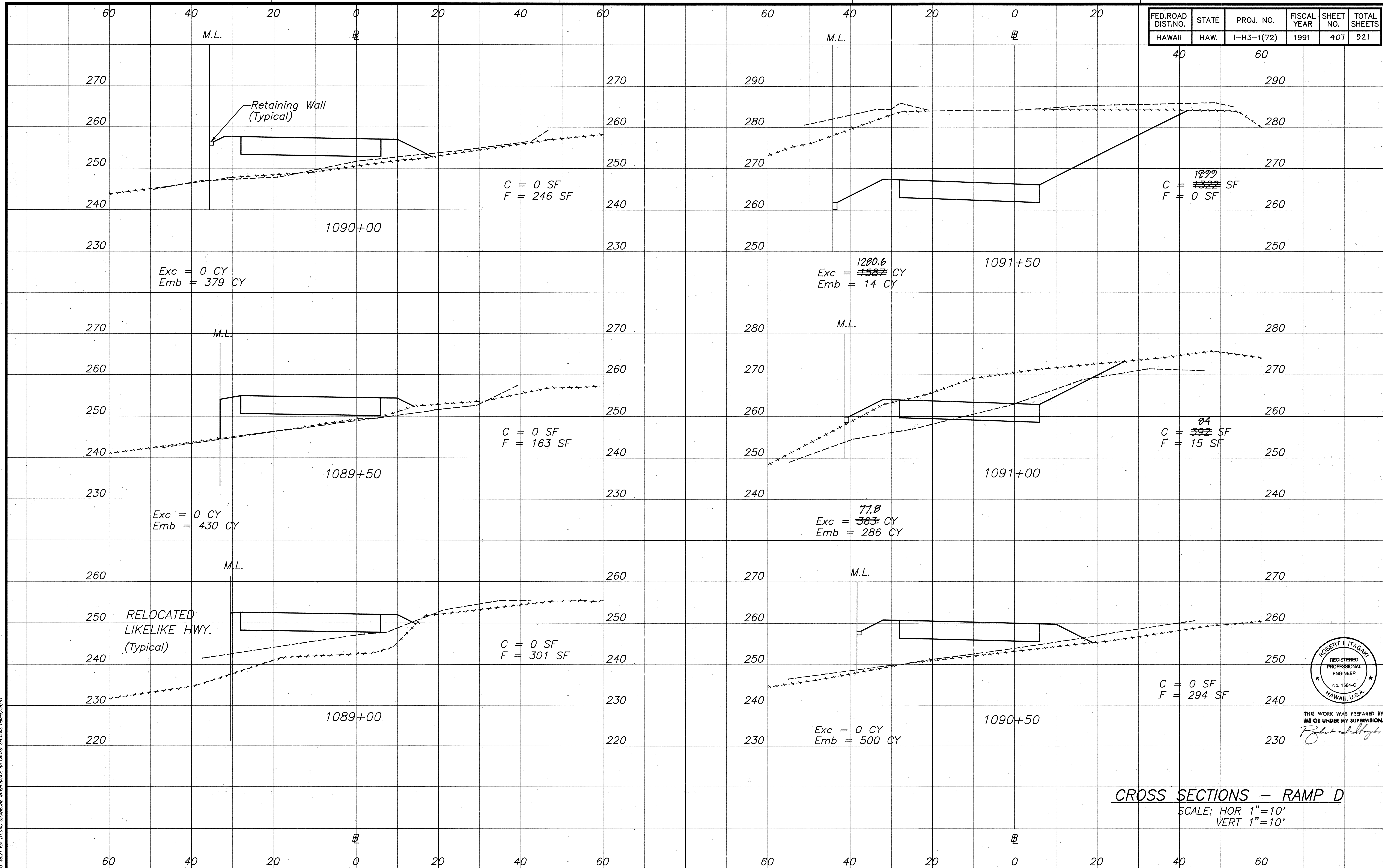


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CROSS SECTIONS - RAMP B
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

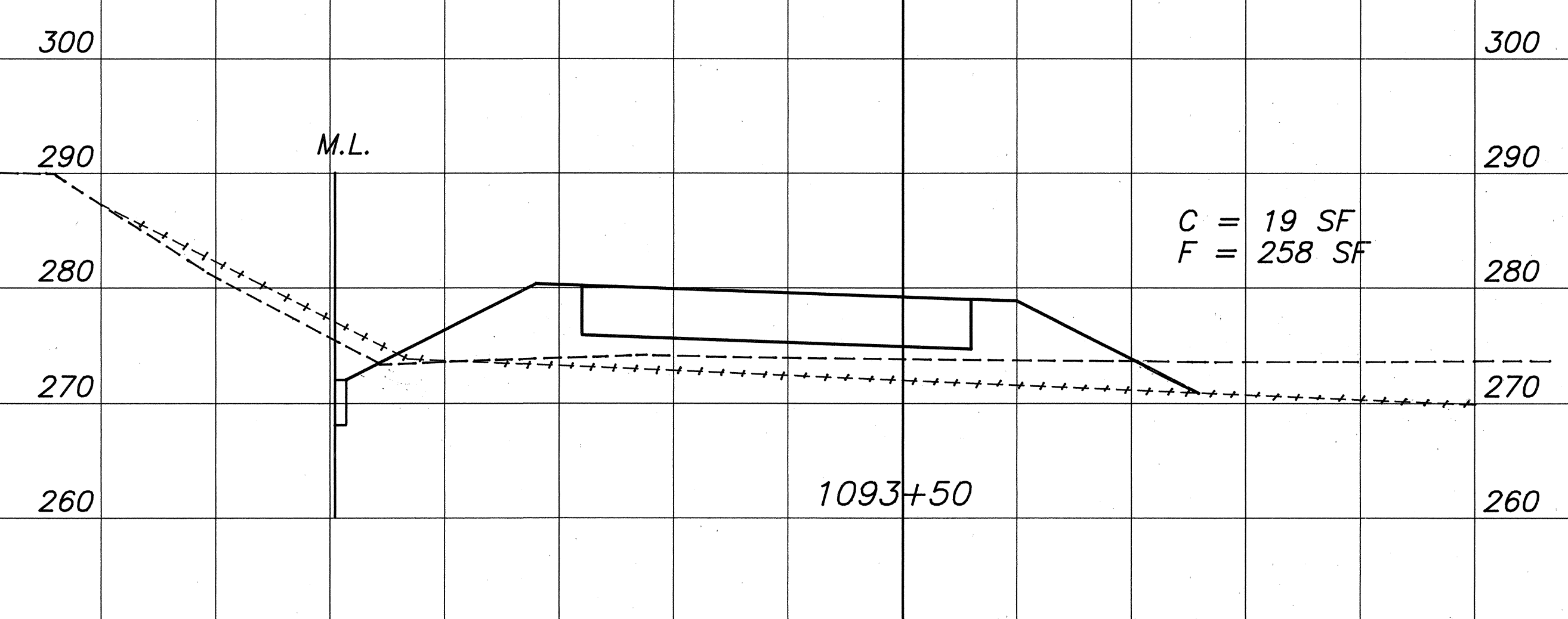
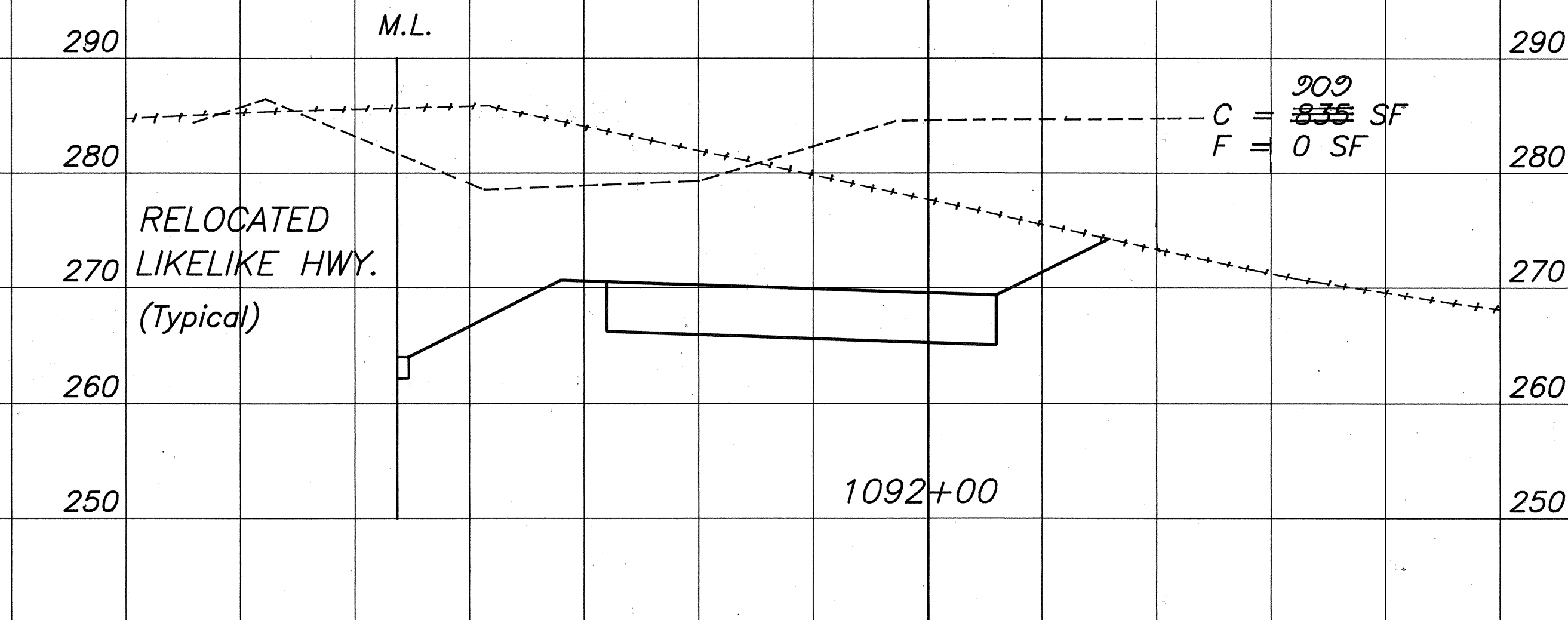
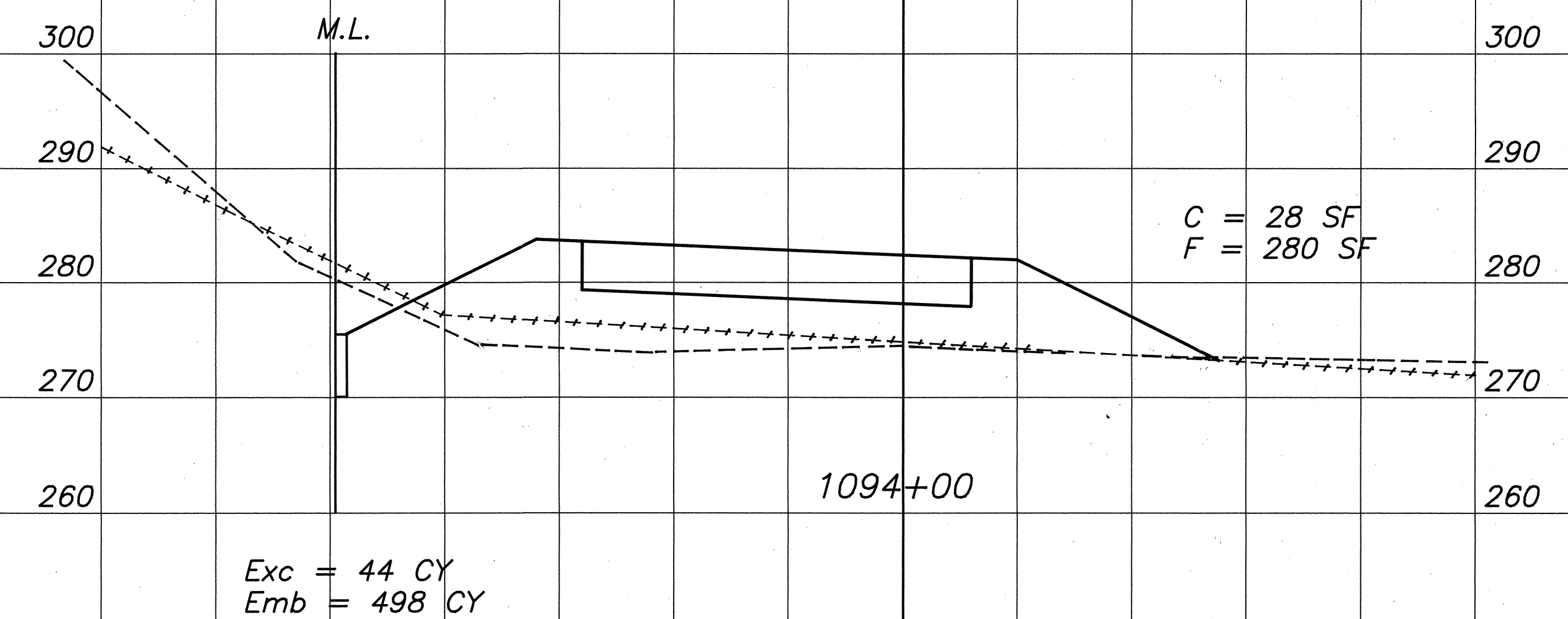
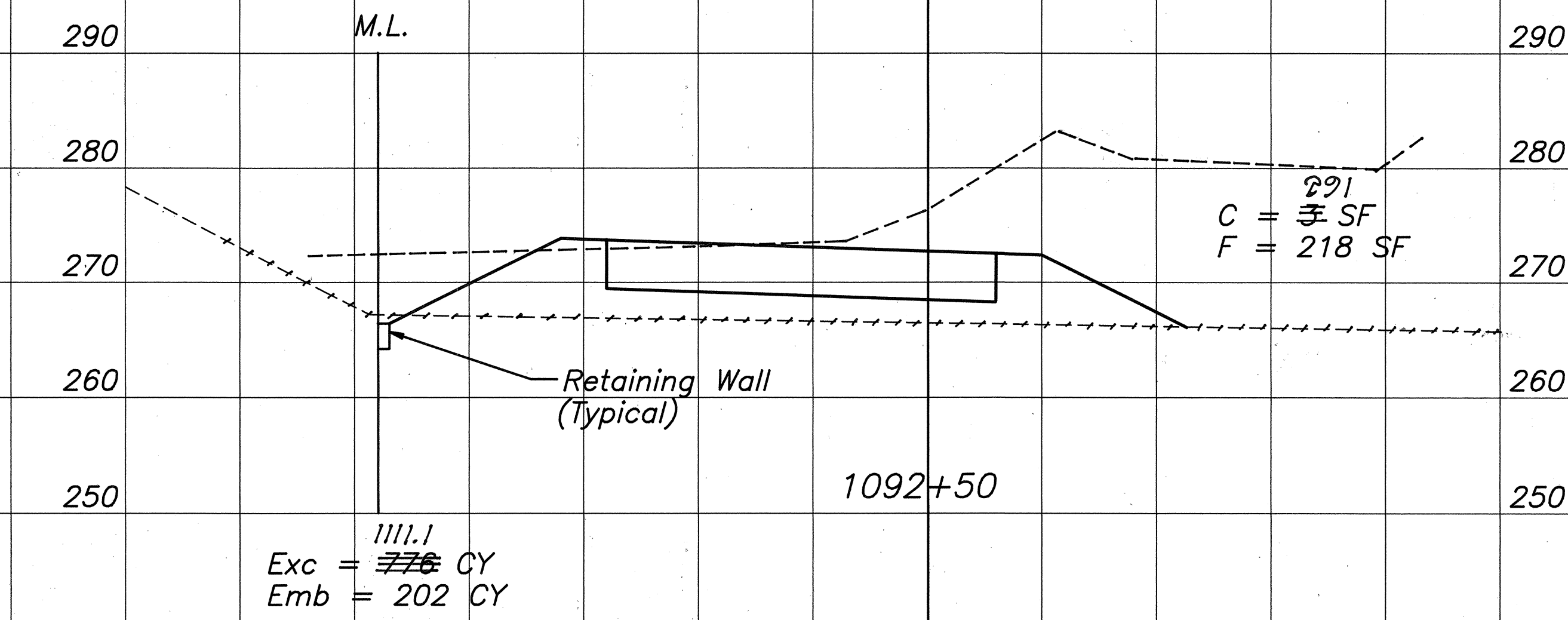
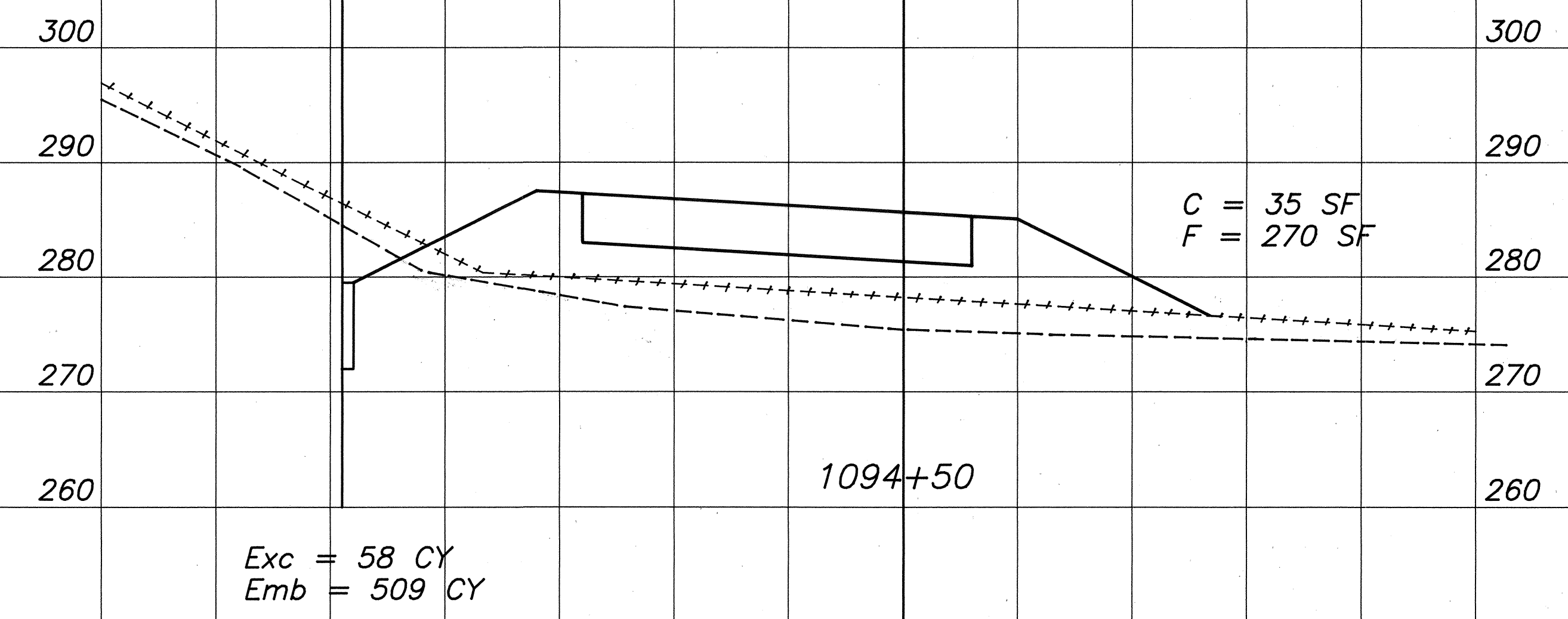
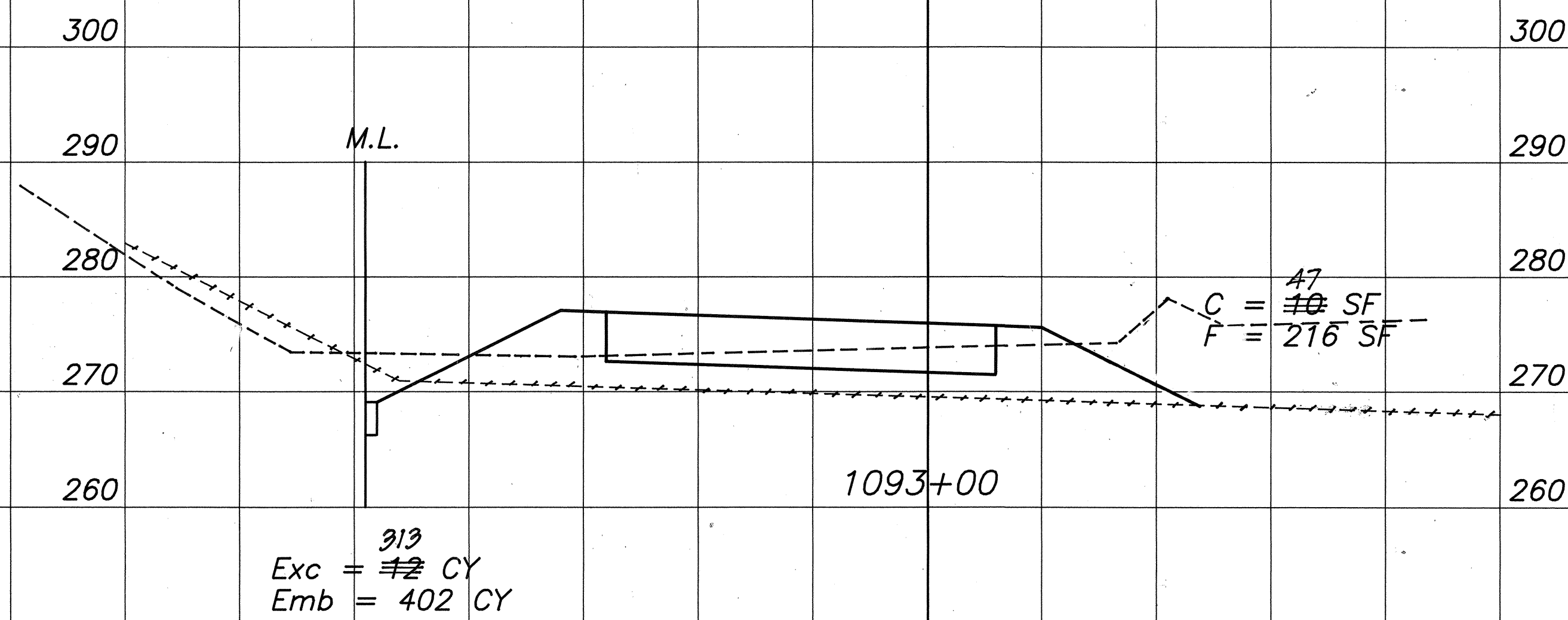
84-621 P3-COLDING CHANNEL INTERCHANGE 43 CROSS-SECTION DATE 8/28/91



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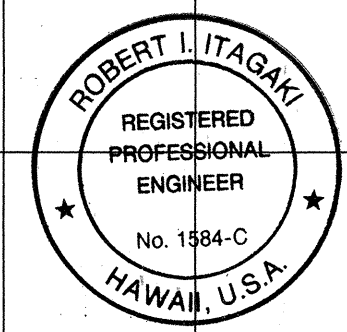
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	408	521

40



RELOCATED
LIKELIKE HWY.
(Typical)

CROSS SECTIONS - RAMP D
SCALE: HOR 1"=10'
VERT 1"=10'



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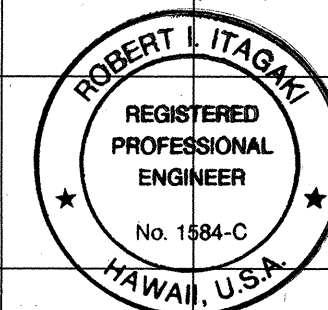
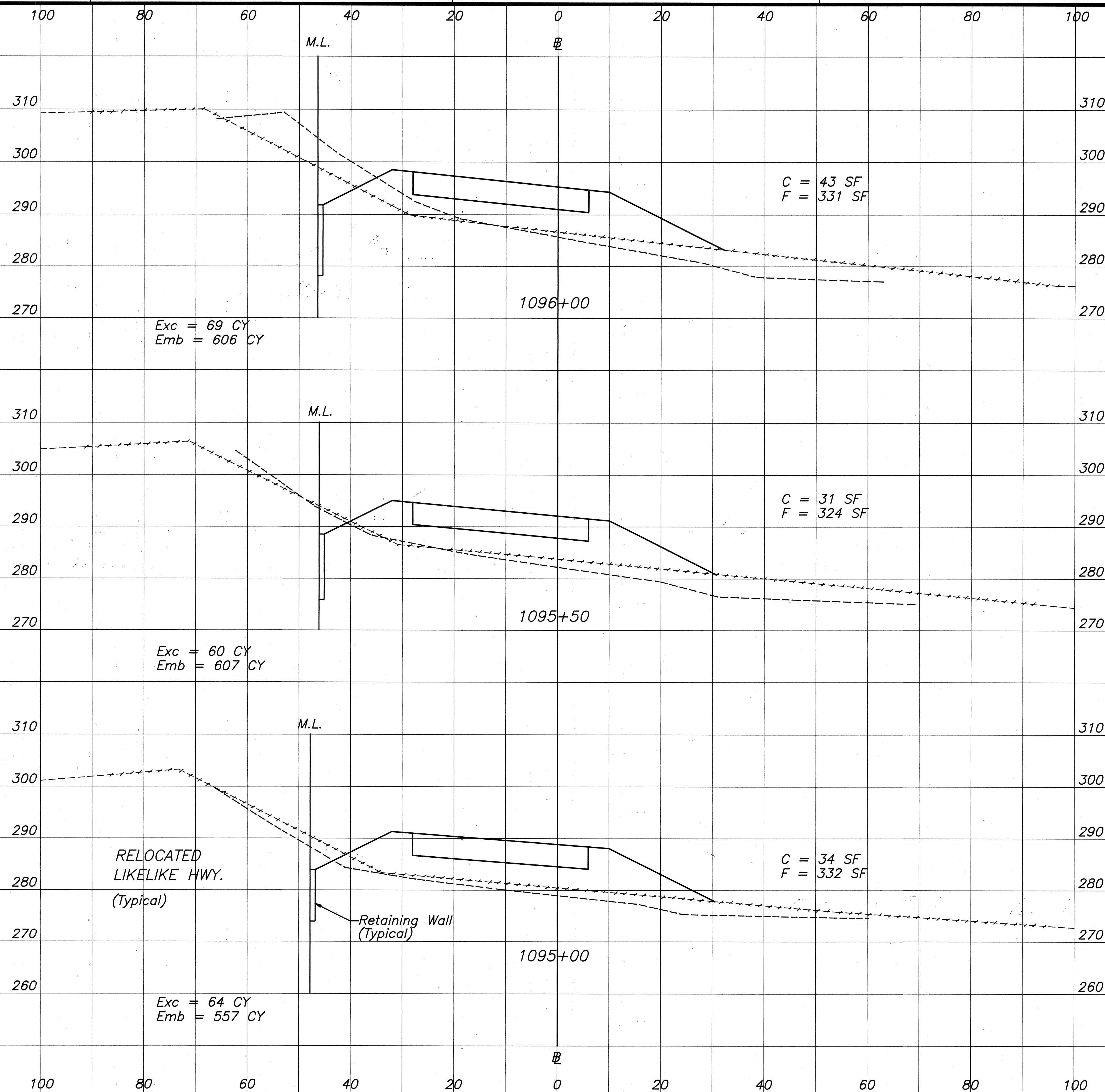
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

83-621 F&C-102ING CHAIRMAN INTERCHANGE IN CROSS-SECTIONS Dated 2/28/91

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

83-421 FM-JULIUS DRIVE/WE INTERCHANGE IN CROSS-SECTIONS Date: 2/28/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	409	521

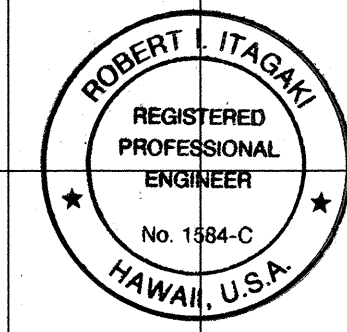
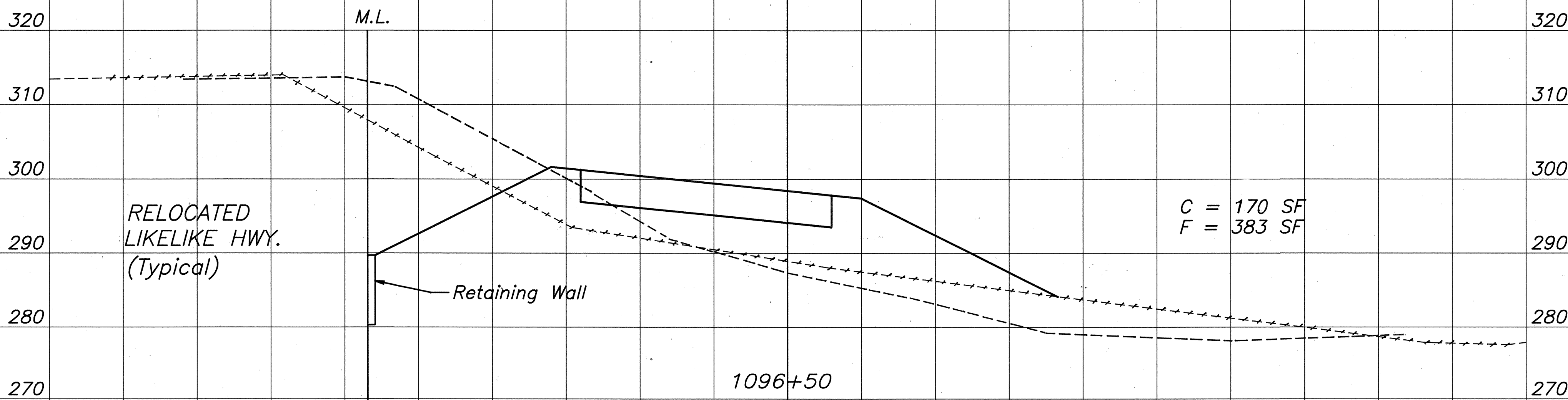
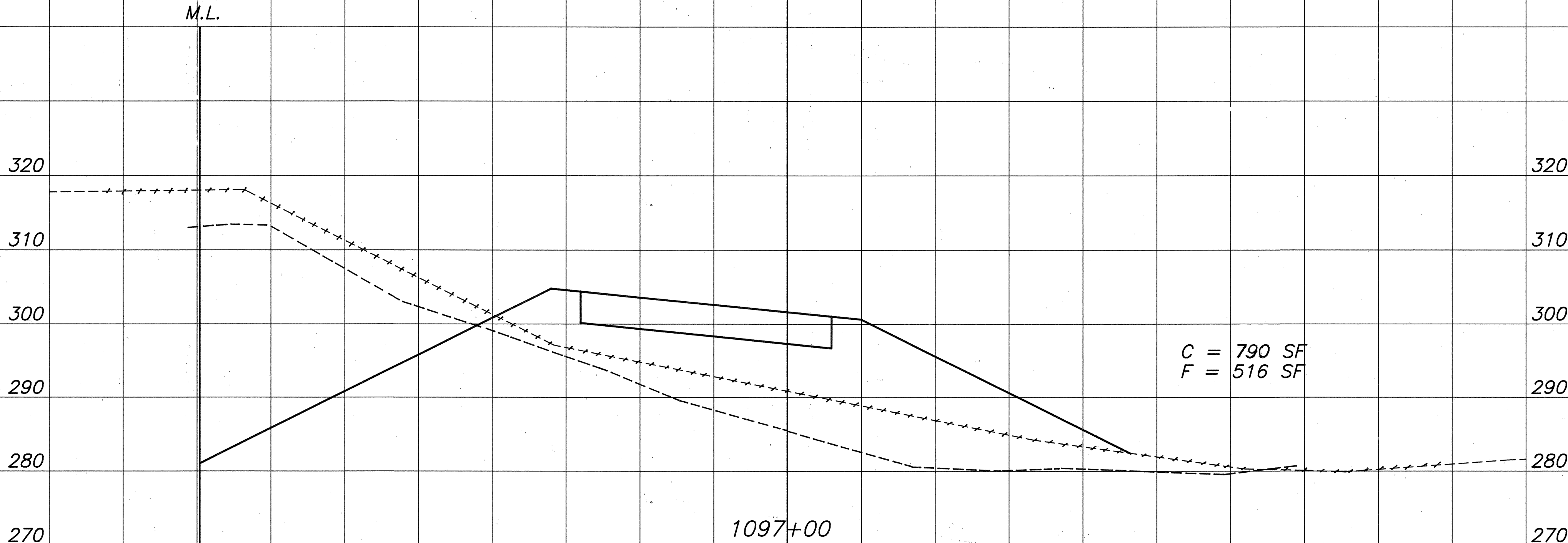


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CROSS SECTIONS - RAMP D
 SCALE: HOR 1"=10'
 VERT 1"=10'

100 80 60 40 20 0 20 40 60 80 100

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	410	521



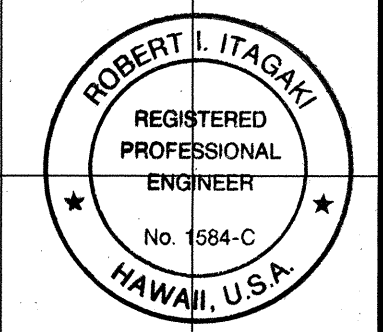
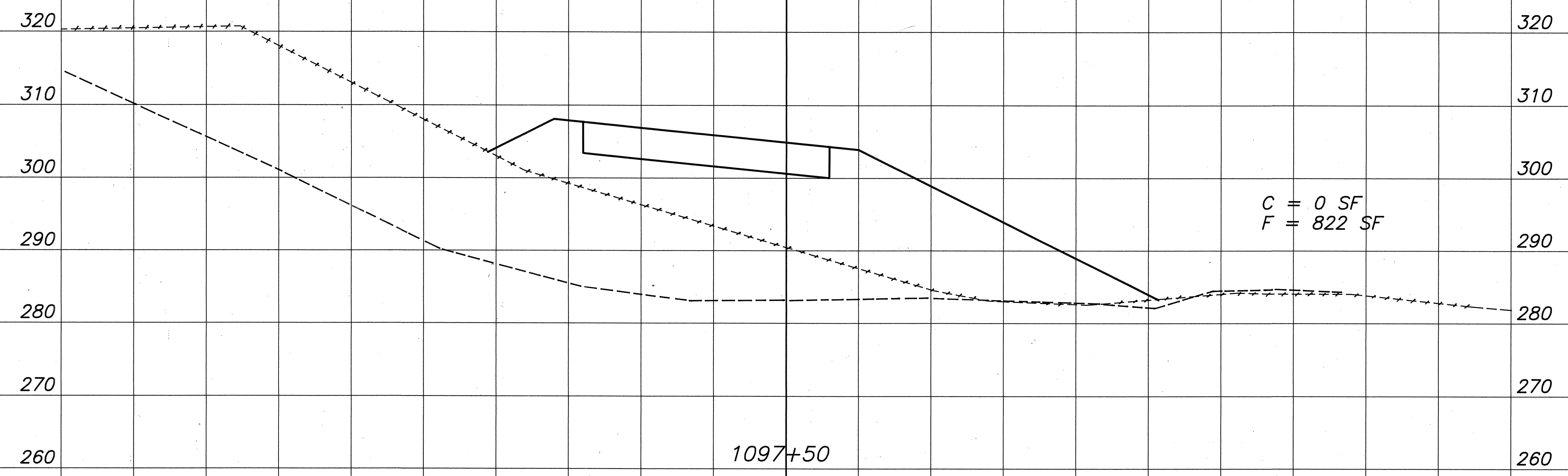
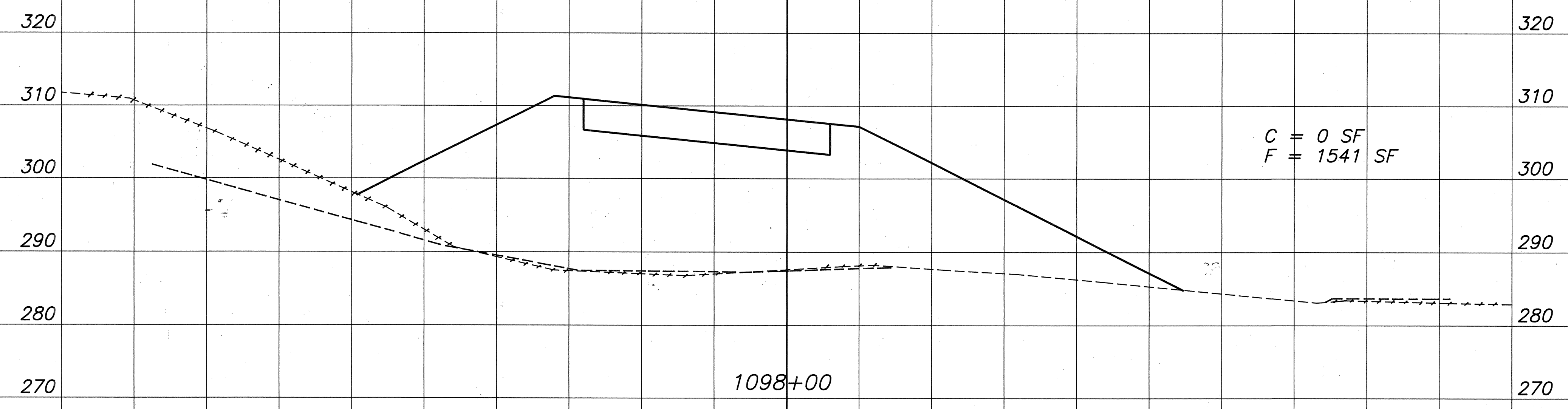
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CROSS SECTIONS - RAMP D
SCALE: HOR 1"=10'
VERT 1"=10'

100 80 60 40 20 0 20 40 60 80 100

100 80 60 40 20 0 20 40 60 80 100

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	411	521

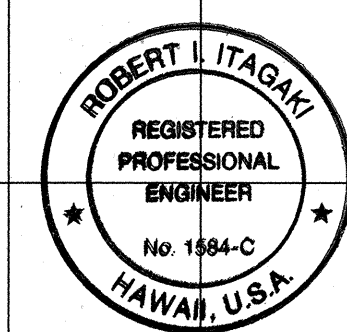
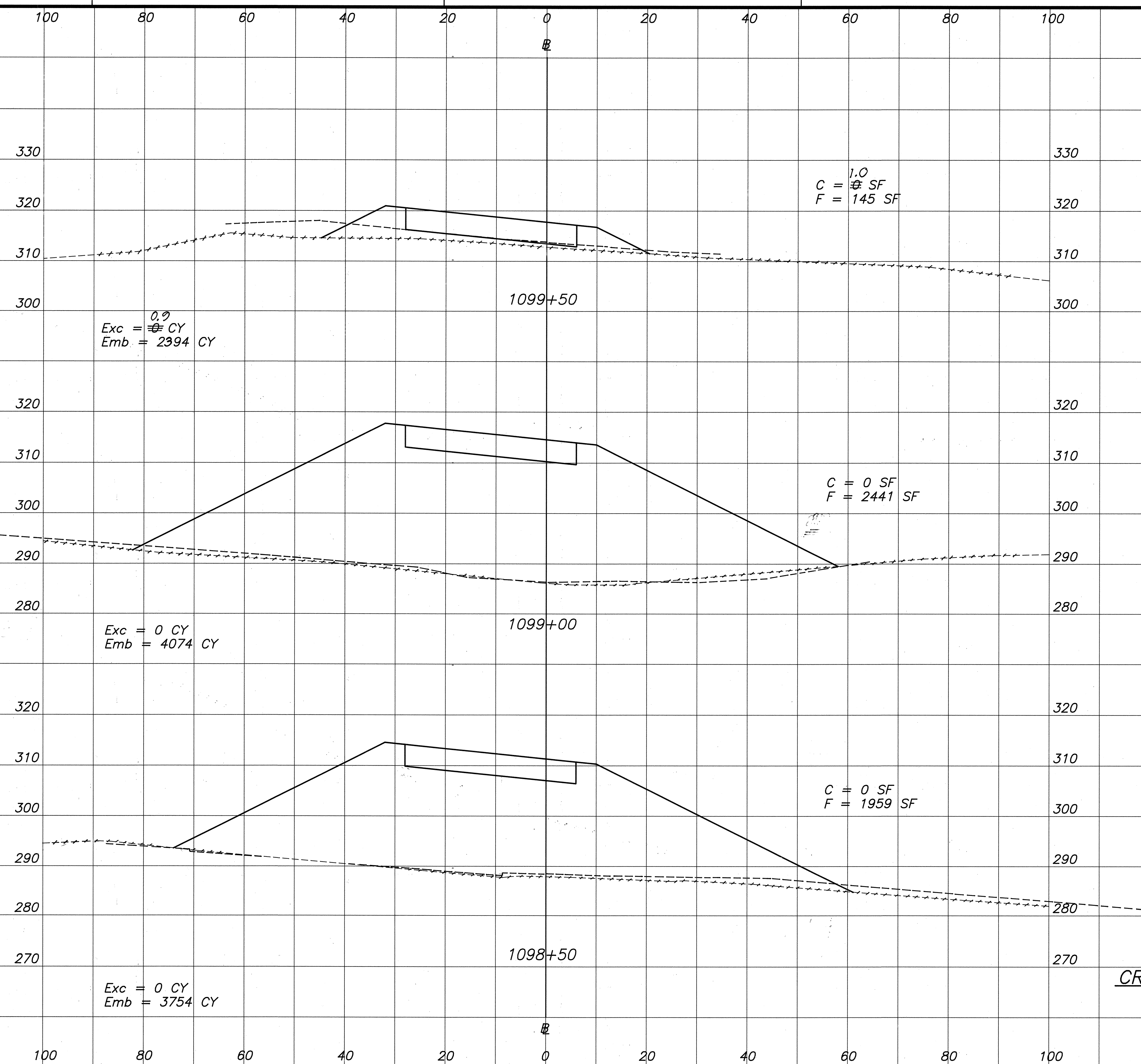


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CROSS SECTIONS - RAMP D
SCALE: HOR 1"=10'
VERT 1"=10'

100 80 60 40 20 0 20 40 60 80 100

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (72)	1991	412	521



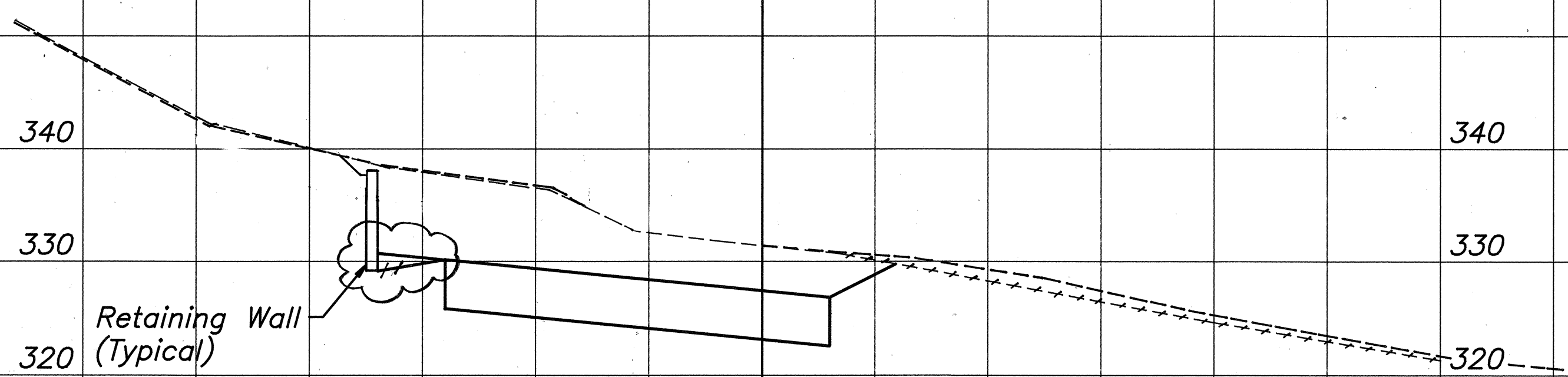
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CROSS SECTIONS - RAMP D
SCALE: HOR 1"=10'
VERT 1"=10'

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

85-621 EX-BUILDING INTERCHANGE #3 CROSS-SECTIONS 8/21/91

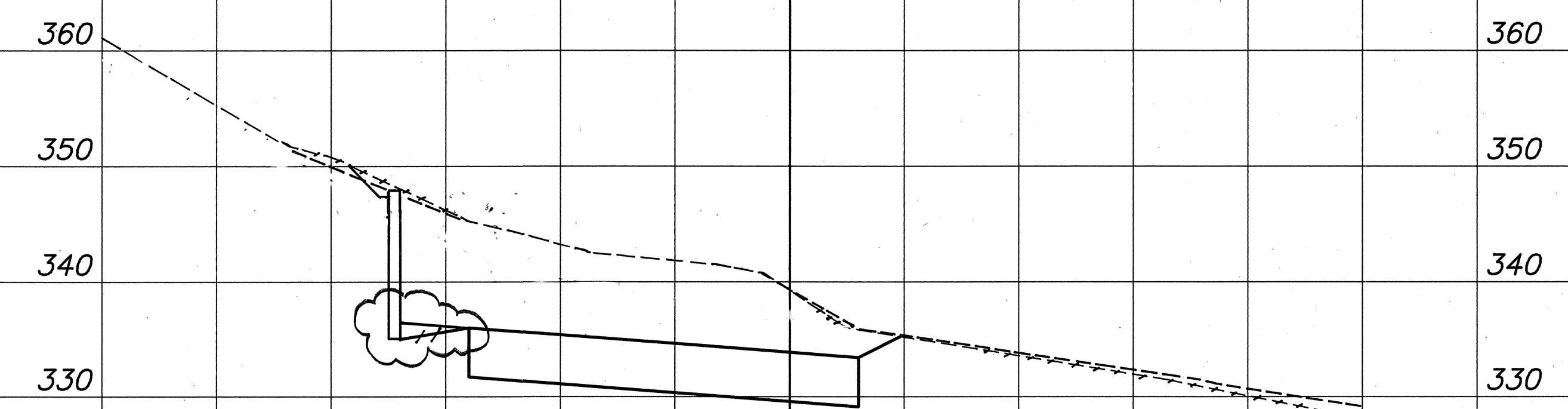
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	40.413	521



Exc = ~~119~~ 519.4 CY
Emb = 6 CY

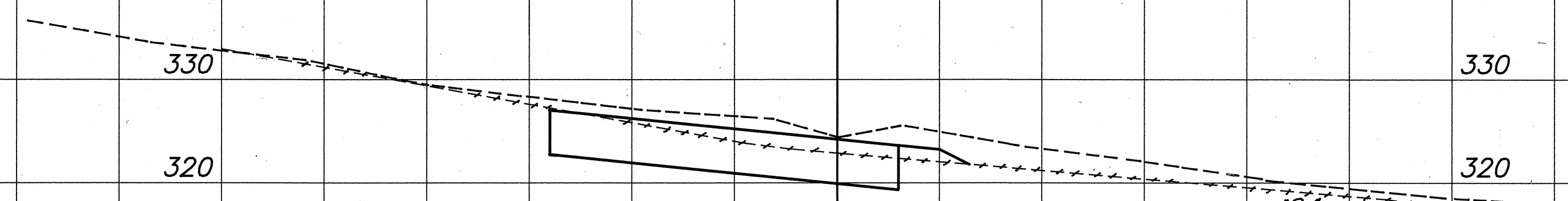
C = ~~338~~ 377 SF
F = 0 SF

1101+00



C = ~~349~~ 396 SF
F = 0 SF

1102+00

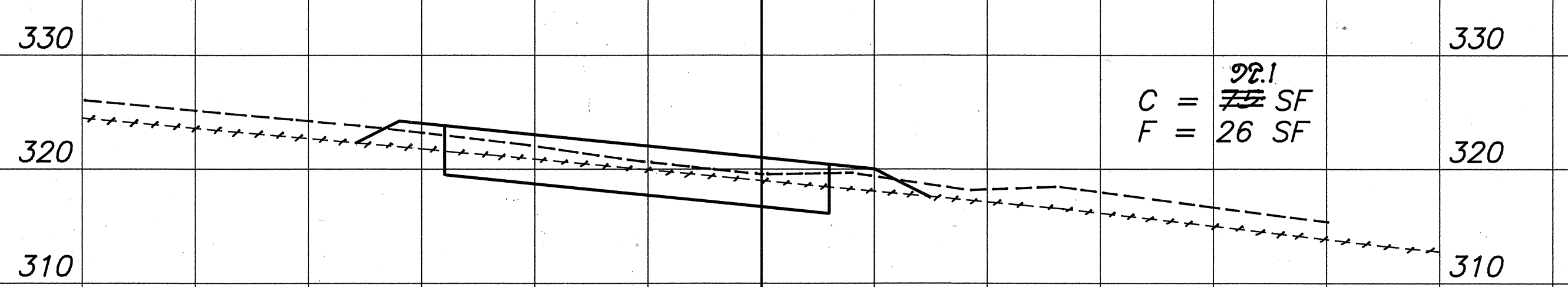


C = ~~115~~ 184 SF
F = 7 SF

1100+50

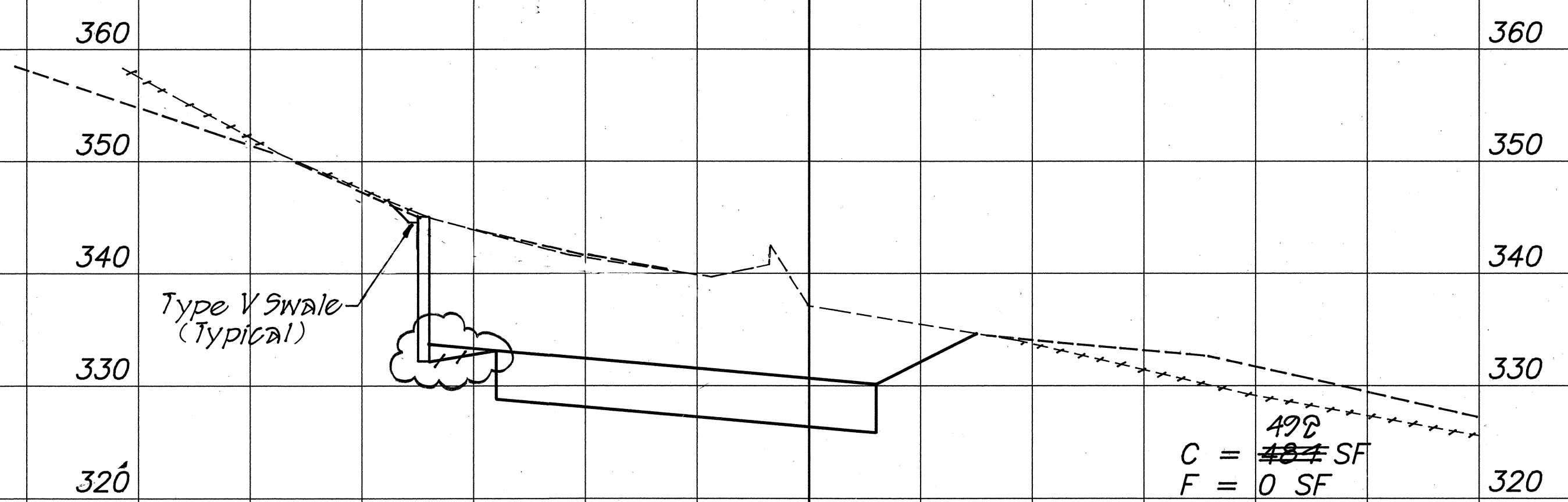
Exc = ~~777~~ 819 CY
Emb = 0 CY

Exc = ~~776~~ 255.7 CY
Emb = 31 CY



C = ~~77~~ 92.1 SF
F = 26 SF

1100+00



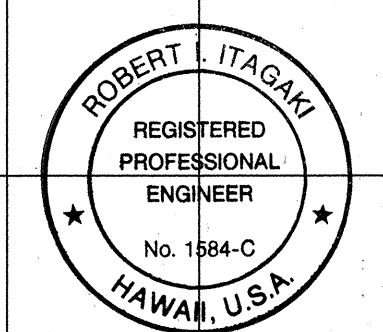
C = ~~487~~ 498 SF
F = 0 SF

1101+50

Exc = ~~761~~ 804.6 CY
Emb = 6 CY

Exc = ~~69~~ 86.2 CY
Emb = 158 CY

Type V Swale (Typical)



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CROSS SECTIONS - RAMP D
SCALE: HOR 1"=10'
VERT 1"=10'

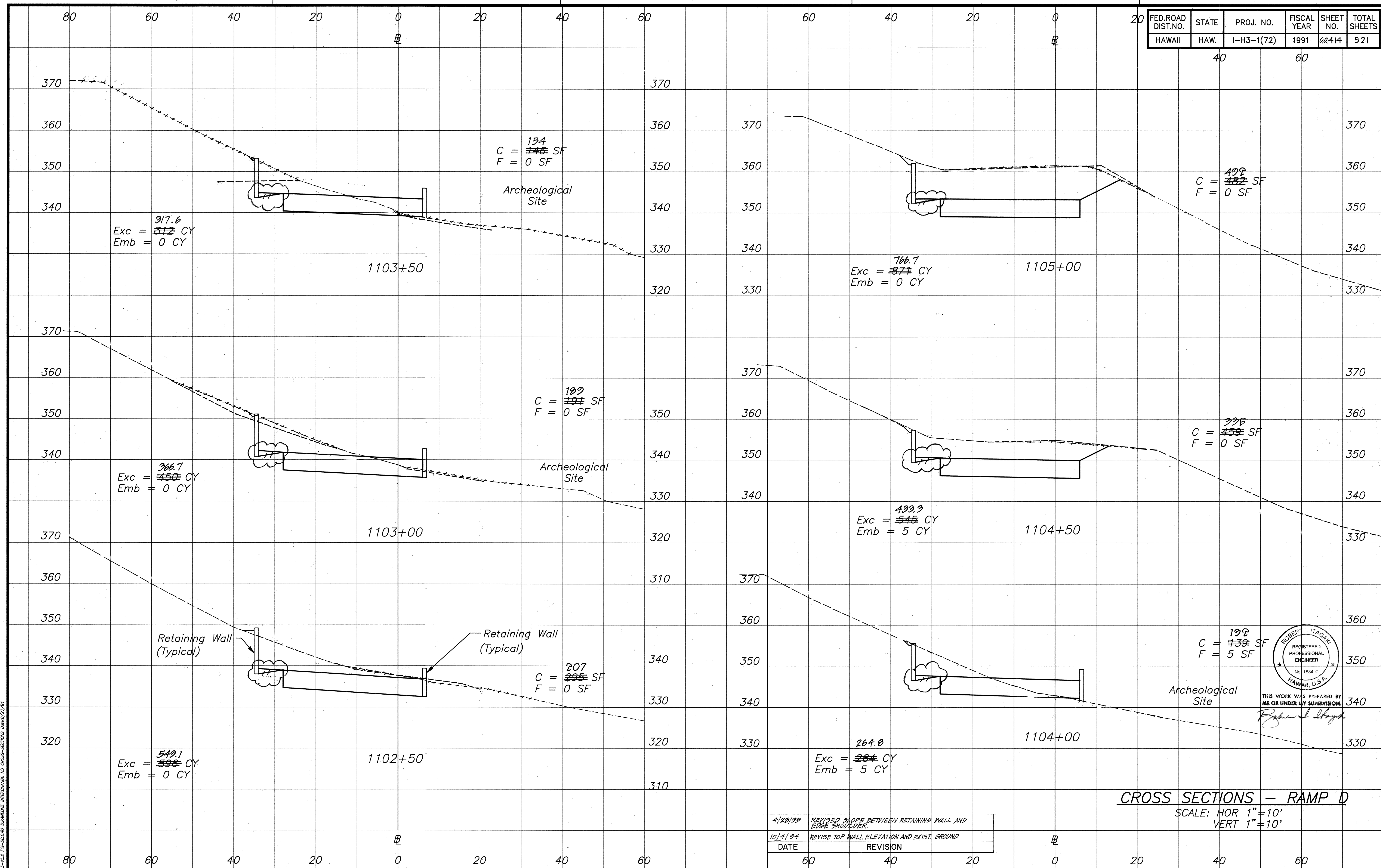
4/28/85	REVISED SLOPE BETWEEN RETAINING WALL AND EDGE SHOULDER.
10/4/94	REVISED TOP WALL ELEVATION AND EXIST. GROUND
DATE	REVISION

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

82-421 P14-012-012 CROSS-SECTIONS 6/21/91

C.O.413

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	60414	521

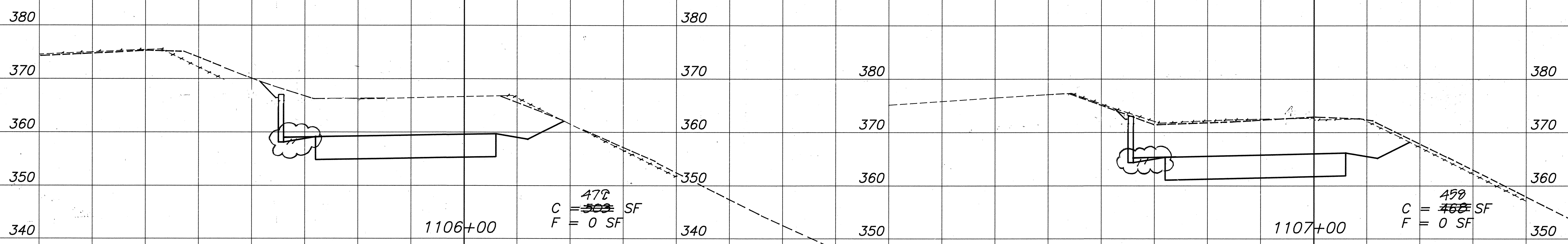


ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	
NOTE BOOK	TRACED BY _____	
	DESIGNED BY _____	
	QUANTITIES BY _____	
No. _____	CHECKED BY _____	

83-452 F.Y-08 DWC D-KANEONE INTERCHANGE H3 CROSS-SECTIONS Date: 8/27/91

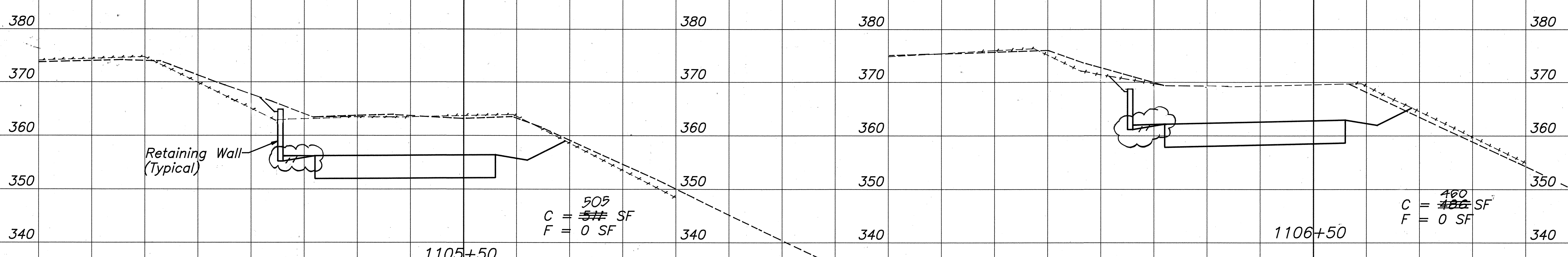
C.O.414

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	00415	921



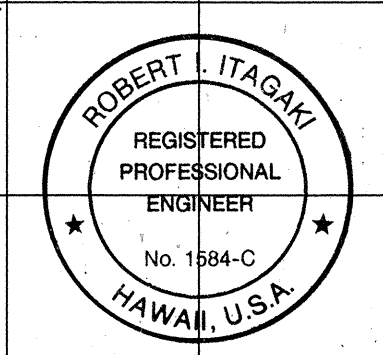
Exc = ~~999~~ 904.6 CY
Emb = 0 CY

Exc = ~~883~~ 850 CY
Emb = 0 CY



Exc = ~~919~~ 923.2 CY
Emb = 0 CY

Exc = ~~919~~ 863 CY
Emb = 0 CY



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CROSS SECTIONS - RAMP D
SCALE: HOR 1"=10'
VERT 1"=10'

1/20/95	REVISED SLOPE BETWEEN RETAINING WALL AND EDGE SHOULDER.
10/4/94	REVISED TOP WALL ELEVATION AND EXIST. GROUND.
DATE	REVISION

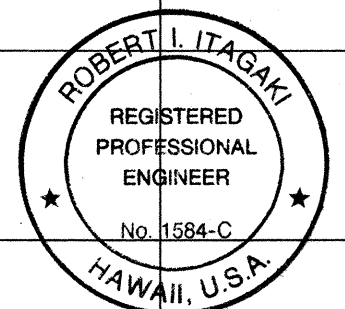
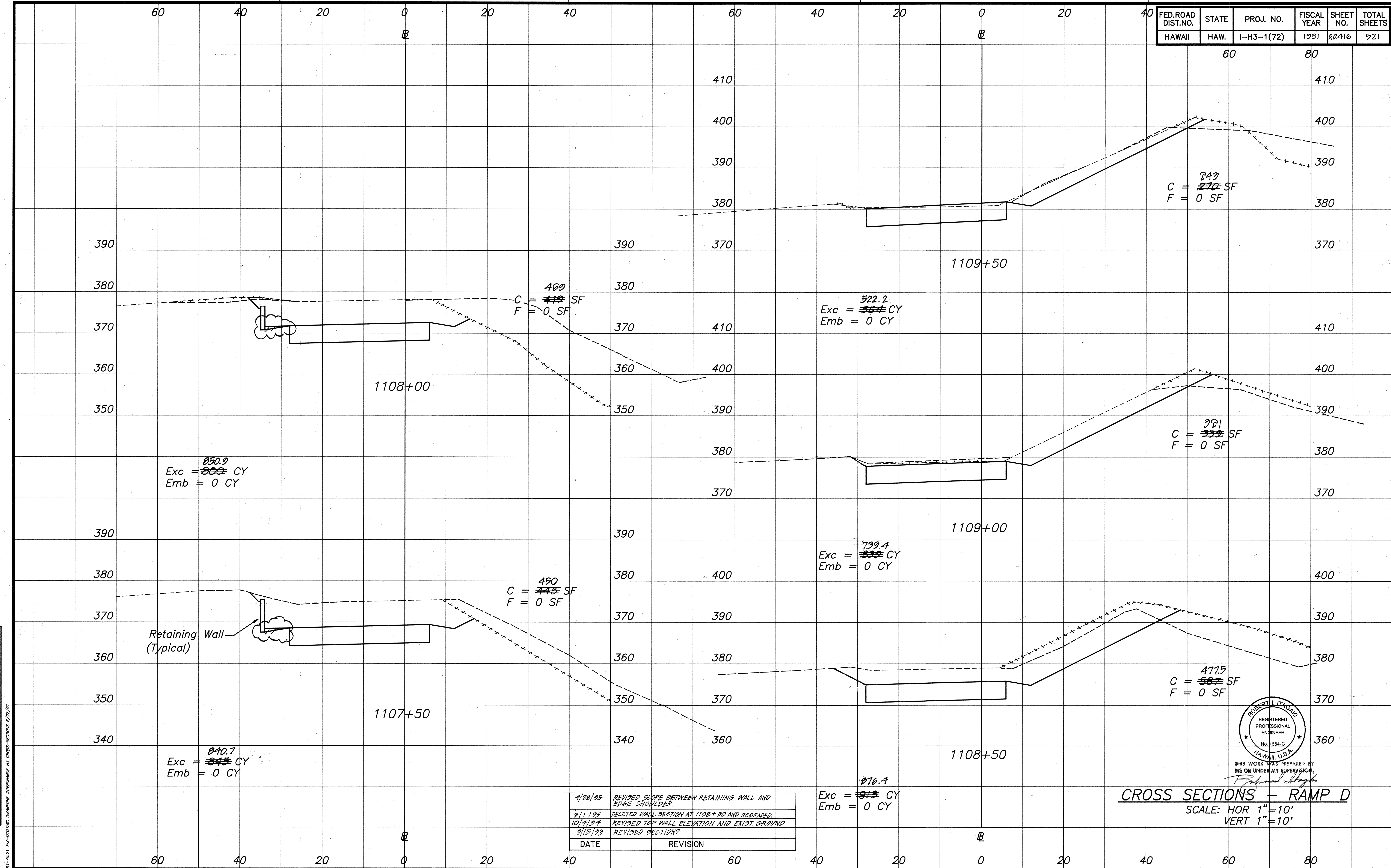
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
No.	

84-4621 F14-PLUMB EXAMINE INTERCHANGE 43 CROSS-SECTION 022/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	60416	921

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

84-621 EX-10000 DRAWING INTERCHANGE AS CROSS-SECTIONS 8/29/91



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CROSS SECTIONS - RAMP D
 SCALE: HOR 1"=10'
 VERT 1"=10'

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

83-462 2X-D1 LANE DRAINAGE INTERCHANGE 1/3 CROSS-SECTIONS Drawn 12/21/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	60.417	921

390
380
370
360
350

Exc = ~~225~~^{302.8} CY
Emb = 0 CY

400
390
380
370
360

Exc = ~~517~~^{376.9} CY
Emb = 0 CY

1110+50

1110+00

C = ~~148~~¹⁶² SF
F = 0 SF

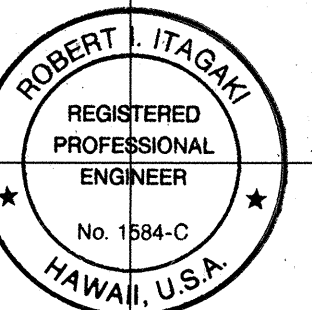
C = ~~562~~¹⁶⁴ SF
F = 0 SF

Ramp D:

Total Exc. = 20,545 cu. yds.
Total Emb. = 20,782 cu. yds.

390
380
370
360
350

400
390
380
370
360



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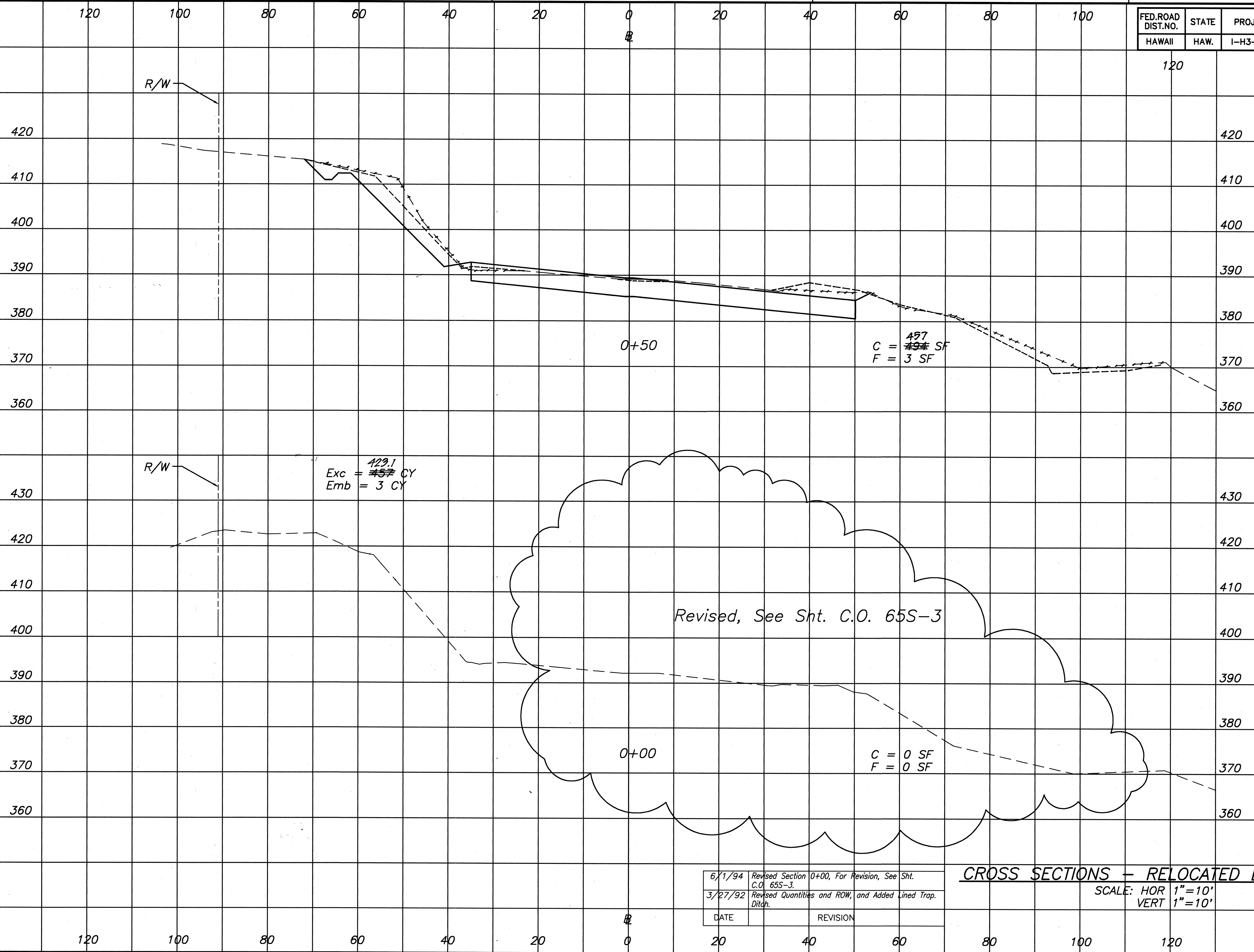
CROSS SECTIONS - RAMP D

SCALE: HOR 1"=10'
VERT 1"=10'

DATE	REVISION
9/15/99	REVISED SECTIONS

C.O.417

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	C.O. ADD. 418	521

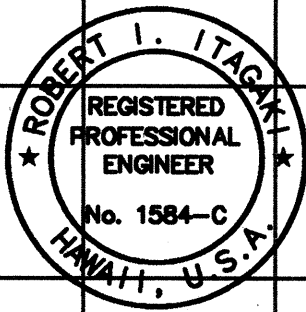


Exc = ~~457~~ 429.1 CY
Emb = 3 CY

C = ~~457~~ 457 SF
F = 3 SF

C = 0 SF
F = 0 SF

Revised, See Sht. C.O. 65S-3



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6/1/94	Revised Section 0+00, For Revision, See Sht. C.O. 65S-3.
3/27/92	Revised Quantities and ROW, and Added Lined Trap Ditch.
DATE	REVISION

CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

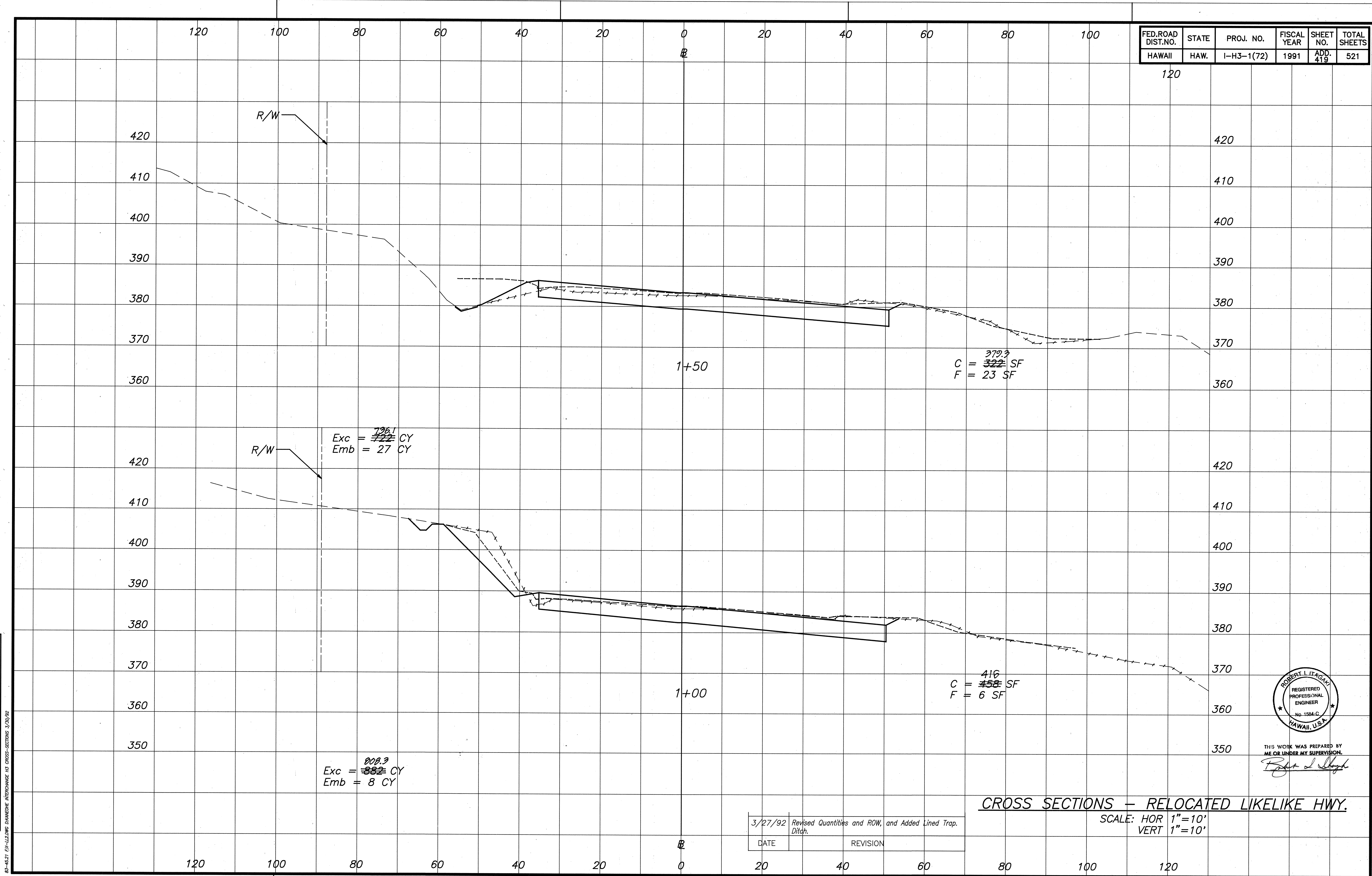
C.O. ADD. 418

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

85-4521 FAX-LILOW DIAMOND INTERCHANGE A3 CROSS-SECTIONS 06/2/94

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 419	521

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	No.

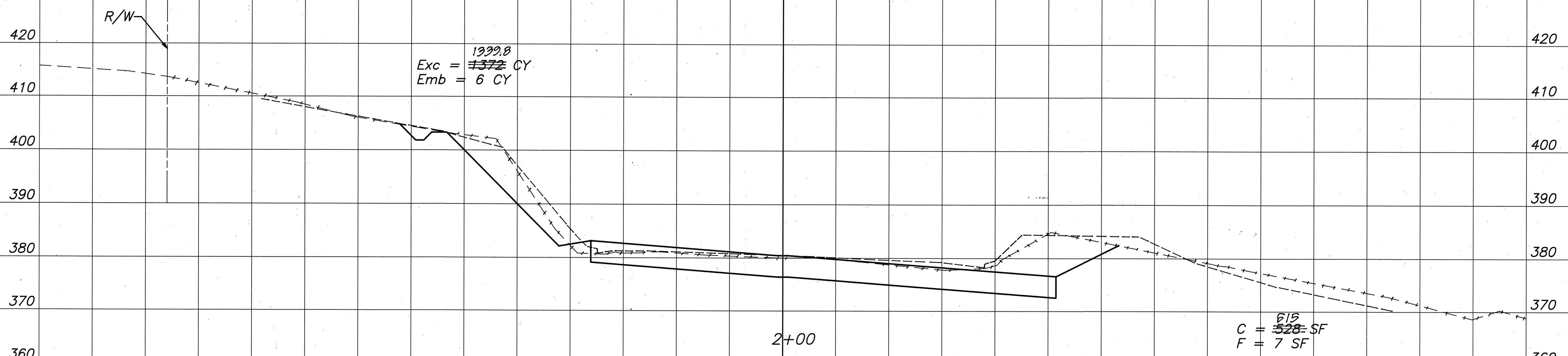
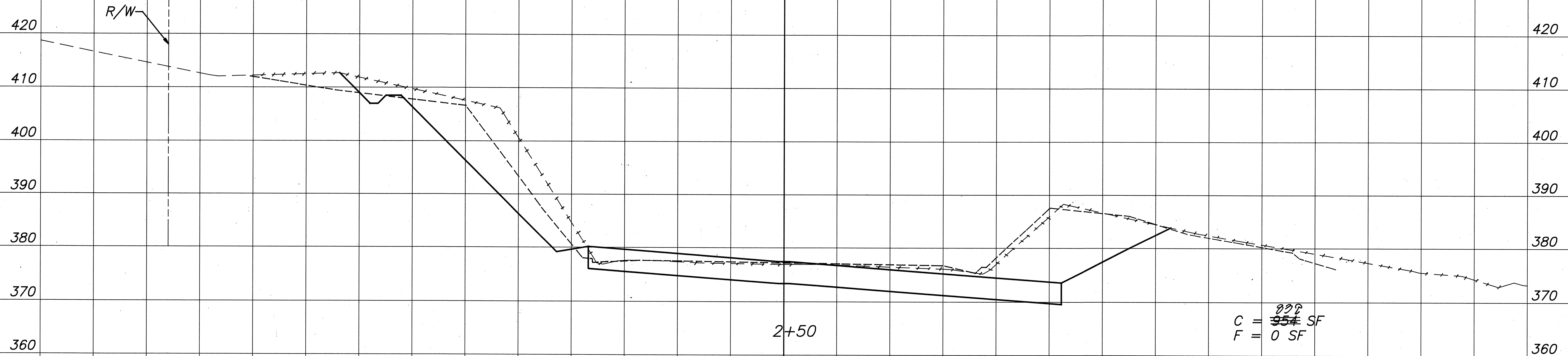


CROSS SECTIONS - RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'

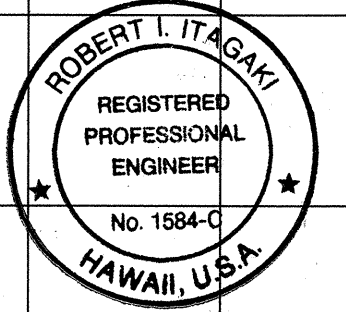
3/27/92	Revised Quantities and ROW, and Added Lined Trap.
DATE	REVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 420	521

120 140



Exc = ~~787~~ ^{920.4} CY
Emb = 28 CY



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CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

3/27/92	Revised Quantities and ROW, and Added Lined Trap.
DATE	REVISION

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

ADD. 420

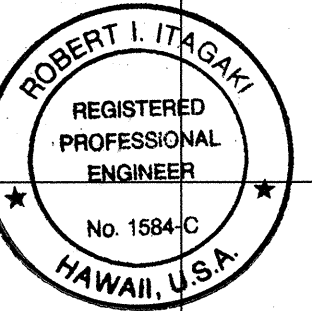
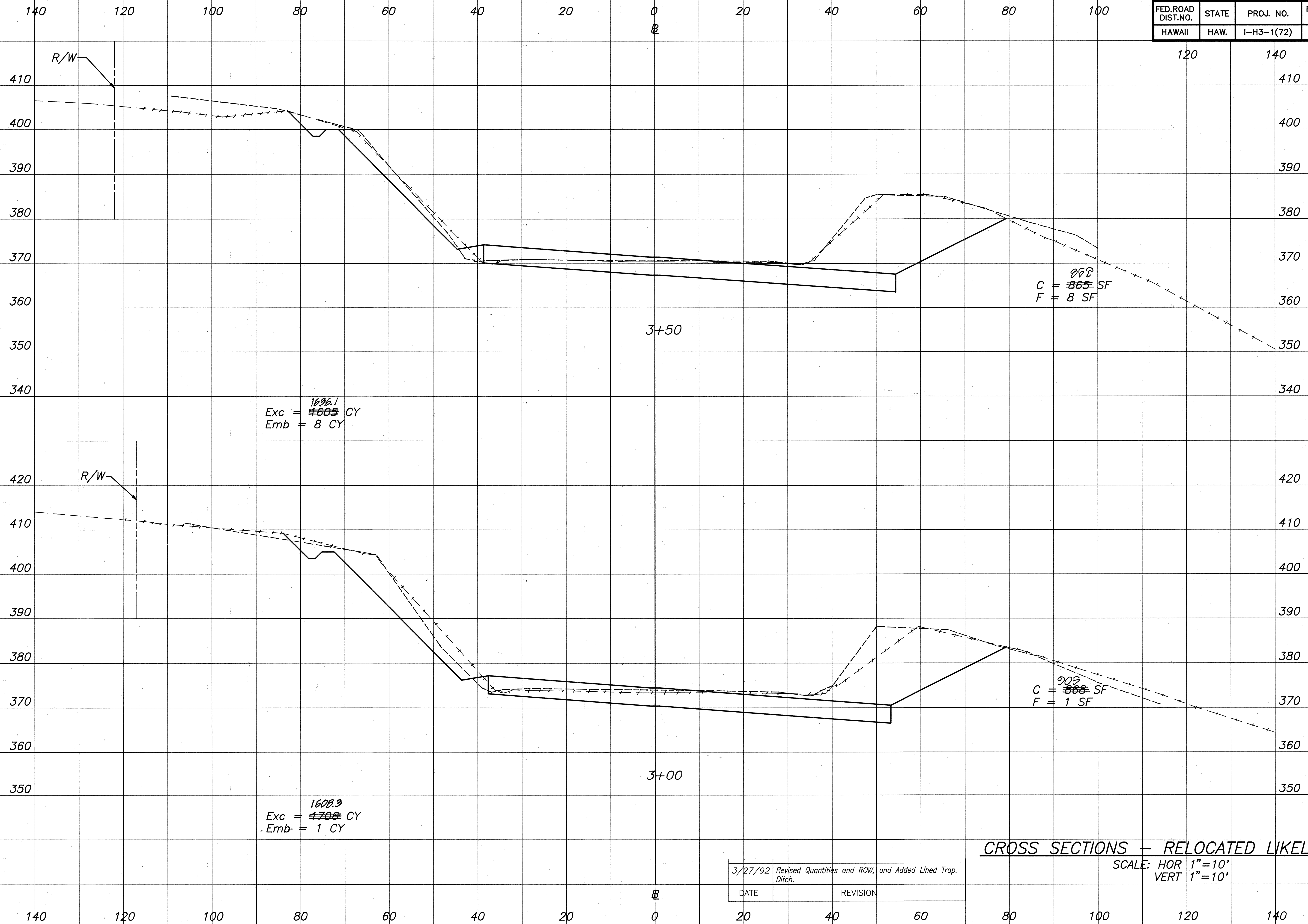
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

82-421 EX-LLONG EXCHANGE INTERCHANGE AS CROSS-SECTIONS 3/29/92

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
NO.	

83-4621 PLYLLING DRAINAGE INTERCHANGE H3 CROSS-SECTIONS 3/20/92

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 421	521



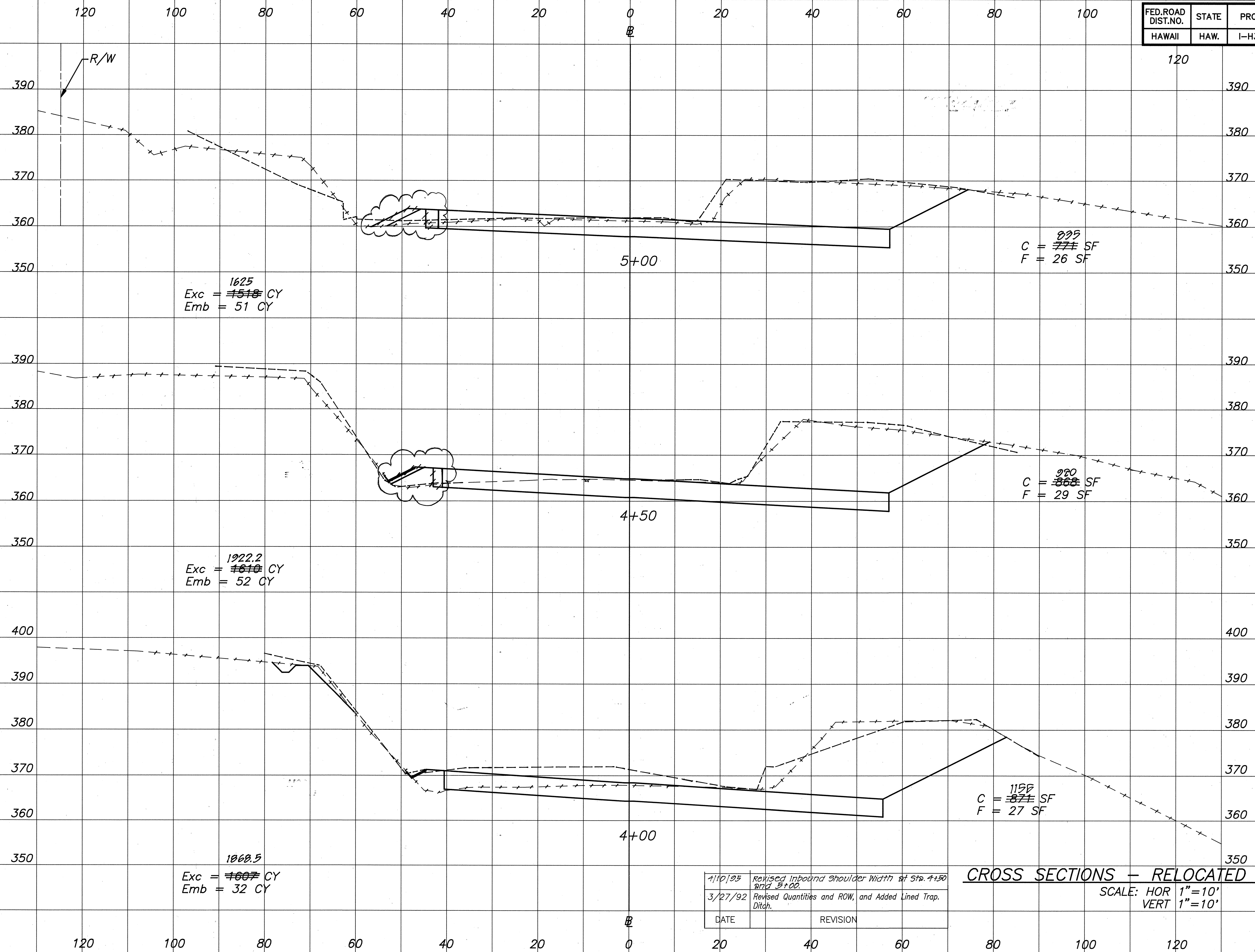
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert I. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

3/27/92	Revised Quantities and ROW, and Added Lined Trap. Ditch.
DATE	REVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 422	521

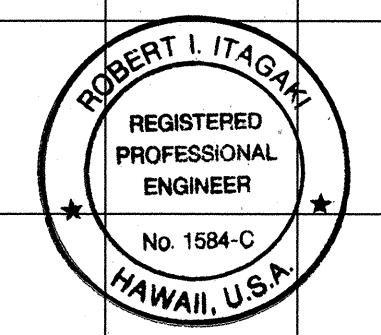


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

85-45-21 EX-LLONG CHANGE INTERCHANGE AT CROSS-SECTIONS 3/20/92

4/10/95	Revised Inbound Shoulder Width at Sta. 4+50 and 5+00.
3/27/92	Revised Quantities and ROW, and Added Lined Trap Ditch.
DATE	REVISION

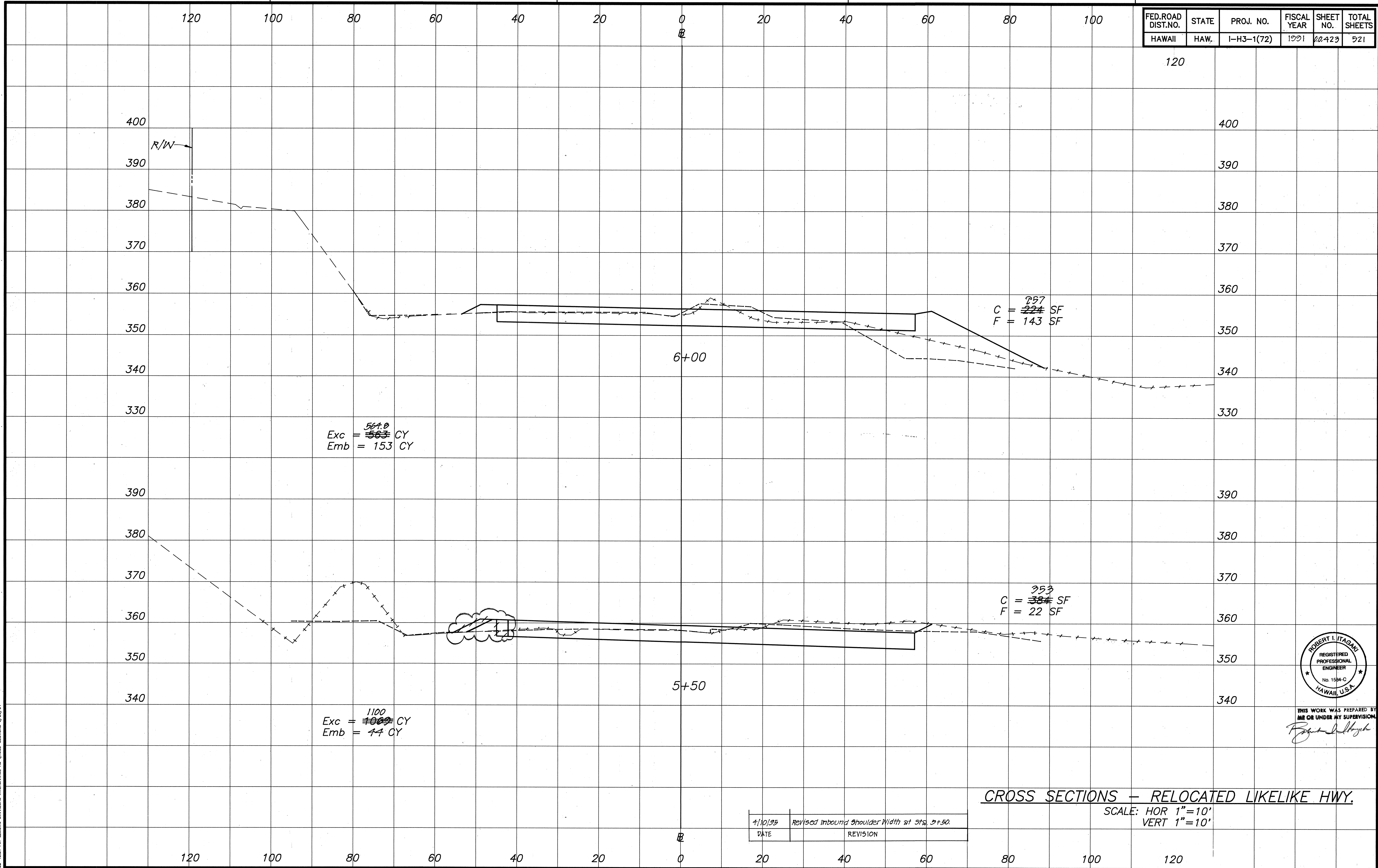
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'



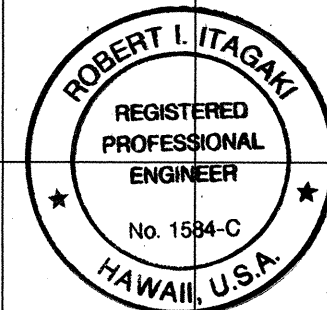
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert I. Itagaki

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

28-46.21 (24) LLE HWY. OVERLAP INTERCHANGE I-13 CROSS-SECTIONS 6/20/91



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	40423	521



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ME OR UNDER MY SUPERVISION
Robert L. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

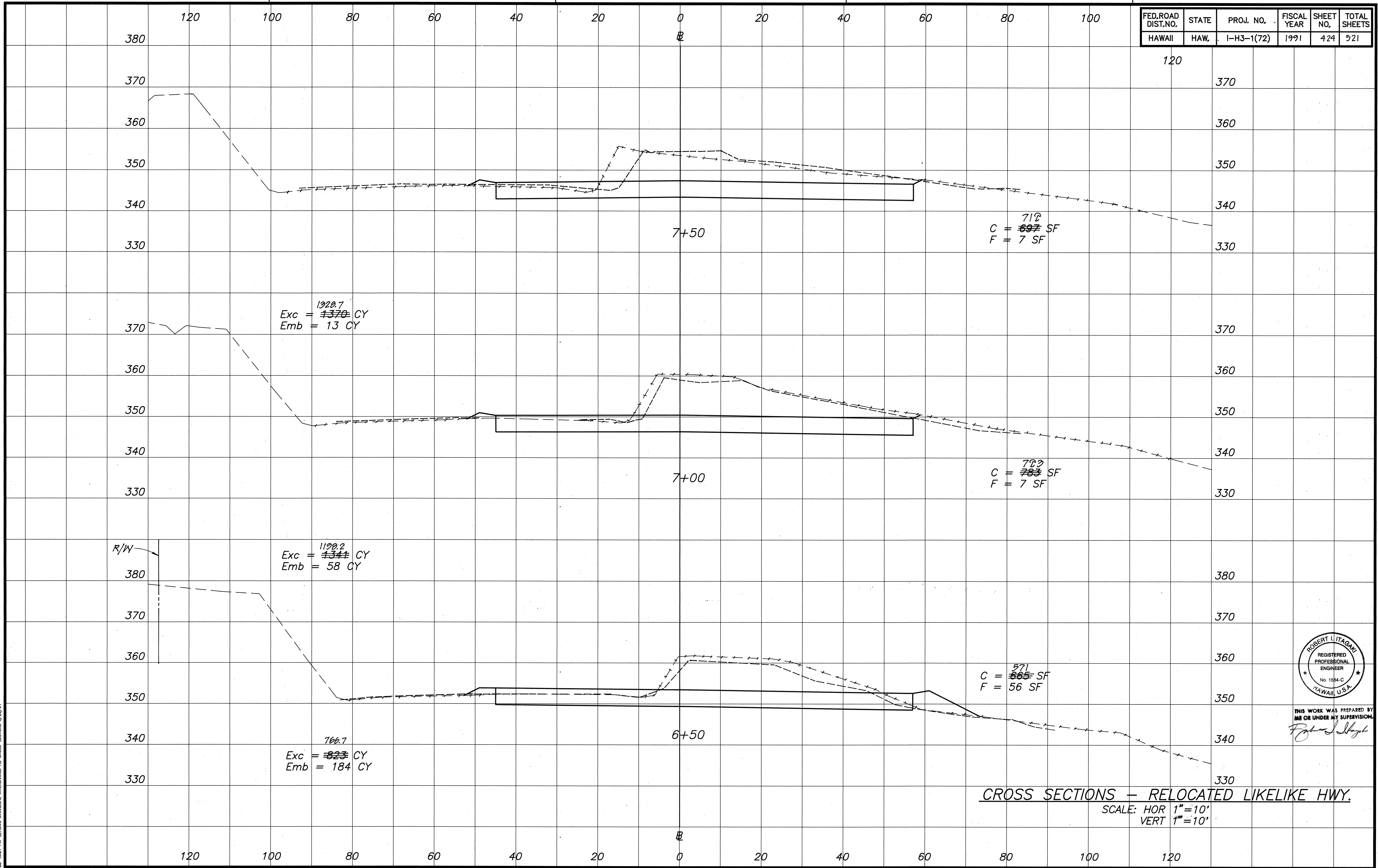
4/10/95	Revised Inbound Shoulder Width at Sta. 5+50.
DATE	REVISION

C0423

SURVEY PLOTTED BY _____ DATE _____
 DESIGNED BY _____
 TRACED BY _____
 NOTE BOOK _____
 QUANTITIES BY _____
 CHECKED BY _____
 No. _____

83-45-21 EX-ALLING DRAINAGE INTERCHANGE H3 CROSS-SECTIONS 6/20/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	424	521

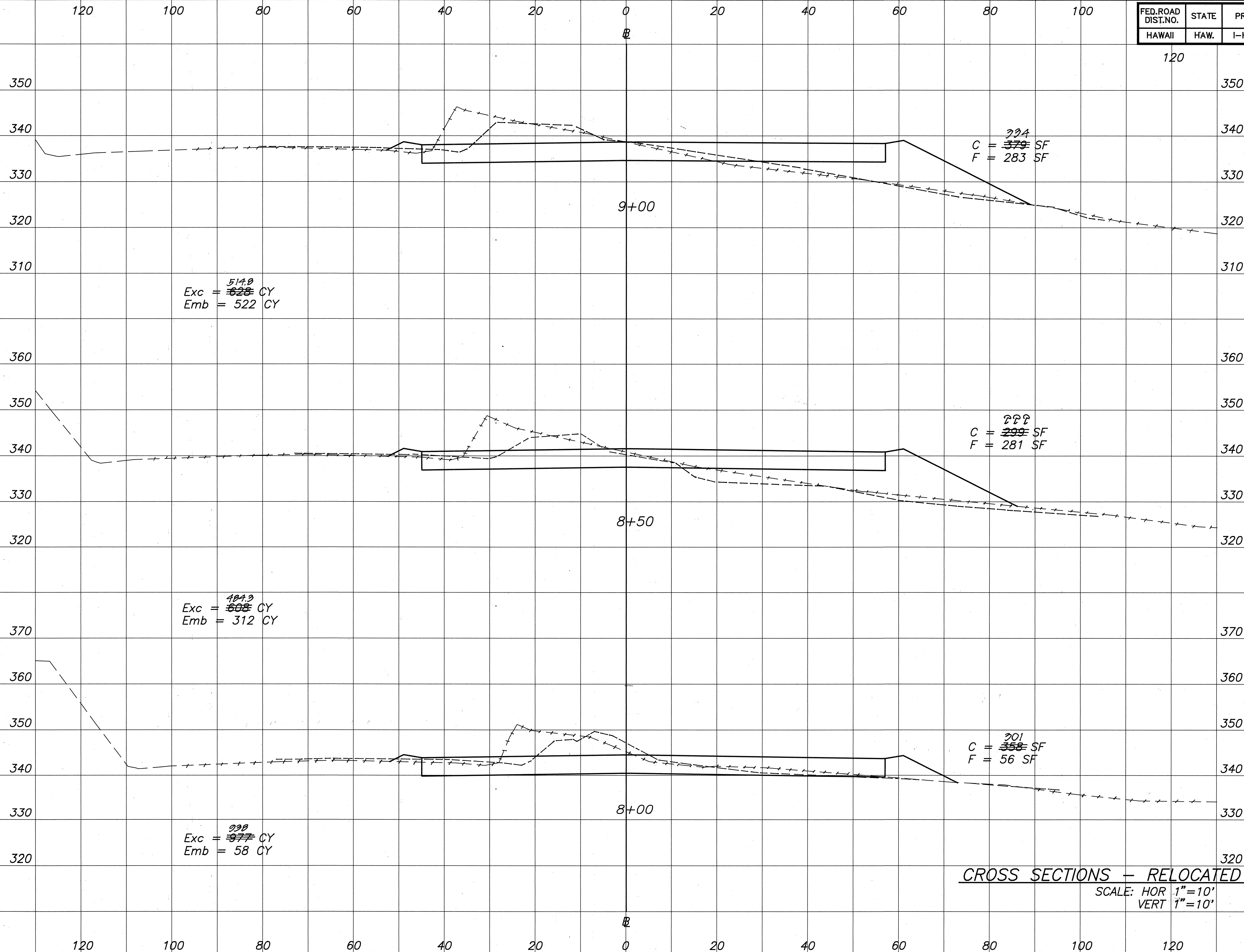


ROBERT I. ITAGAKI
 REGISTERED PROFESSIONAL ENGINEER
 No. 1594-C
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Robert I. Itagaki

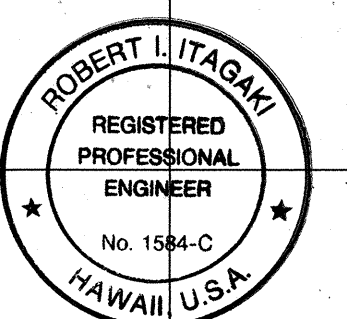
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

83-4321 PALILANI DIVANENE INTERCHANGE I-2 CROSS-SECTIONS 6/20/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	425	521



CROSS SECTIONS - RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'



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 ME OR UNDER MY SUPERVISION.

Robert L. Itagaki

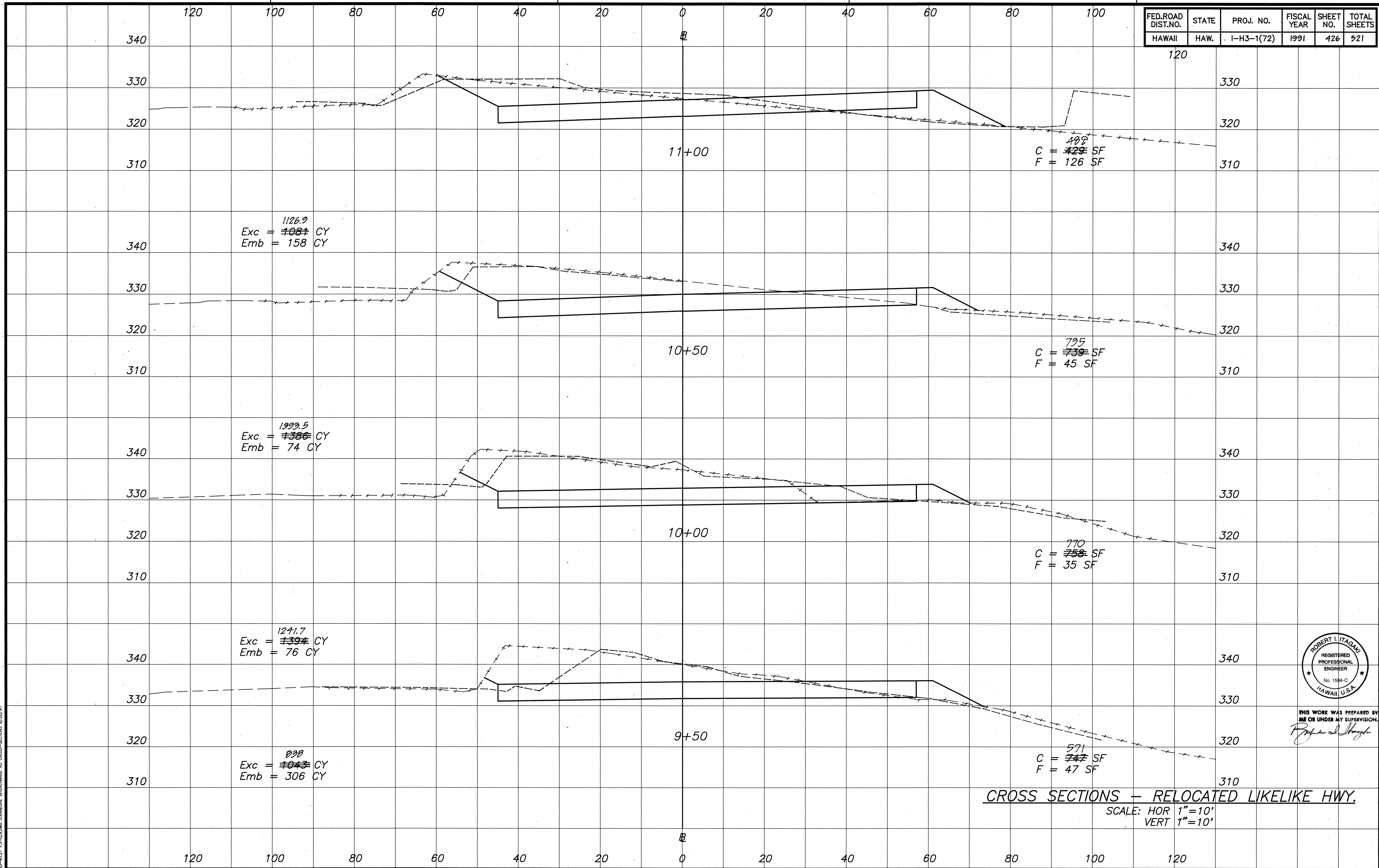
ORIGINAL
PLAN
No.

SURVEY PLOTTED BY
DATE

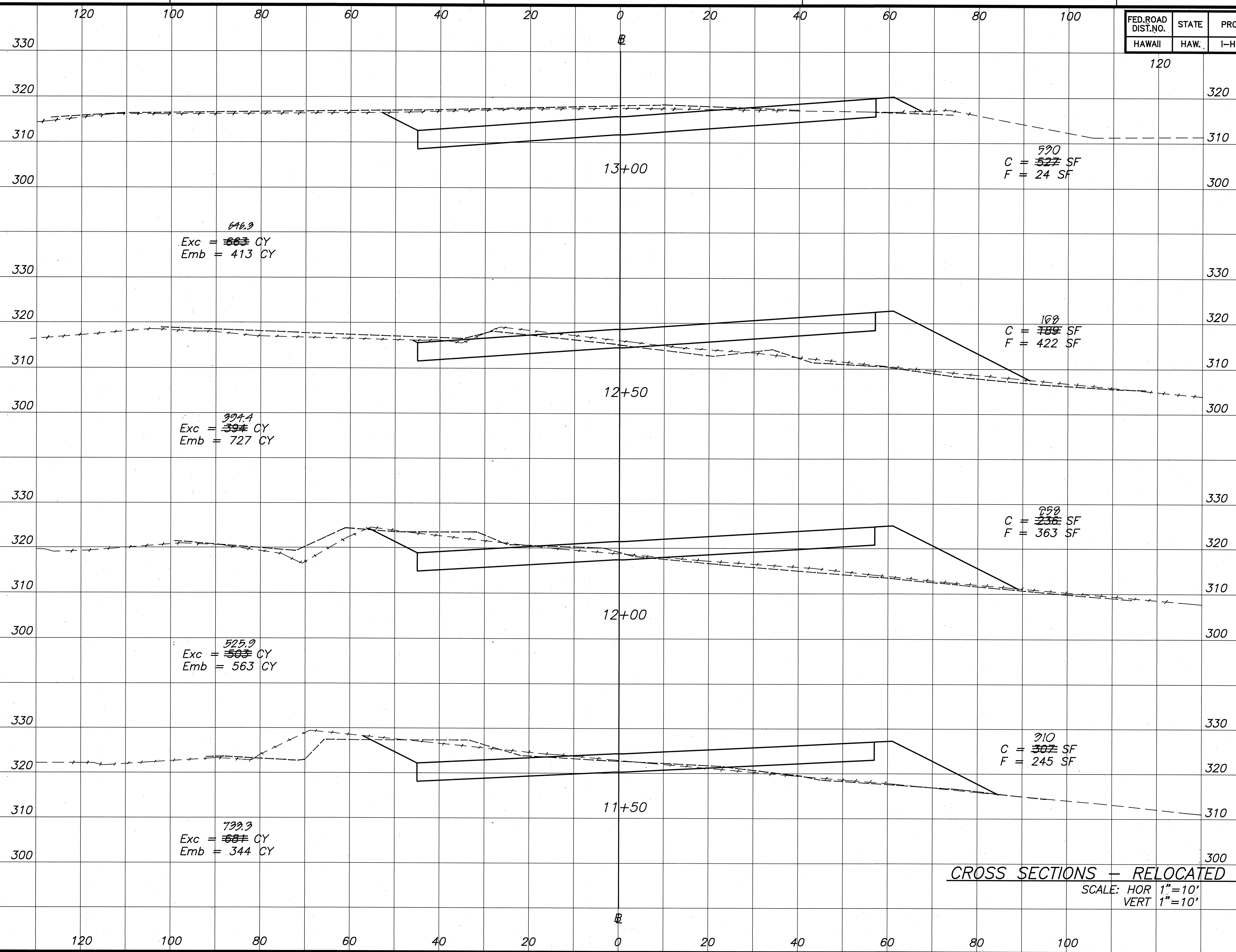
DRAWN BY
DESIGNED BY
CHECKED BY

NOTE BOOK
QUANTITIES BY

82-4521 EX-110-000 BAKEMAN INTERCHANGE IN CROSS SECTIONS 6/20/91



FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	427	521



CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

A circular professional engineer seal. The outer ring contains the text "ROBERT I. ITAGAKI" at the top and "HAWAII, U.S.A." at the bottom, separated by two five-pointed stars. The inner circle contains the text "REGISTERED PROFESSIONAL ENGINEER" and "No. 1584-C" below it.

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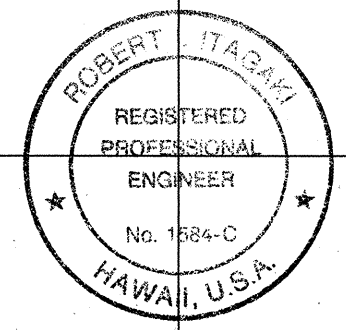
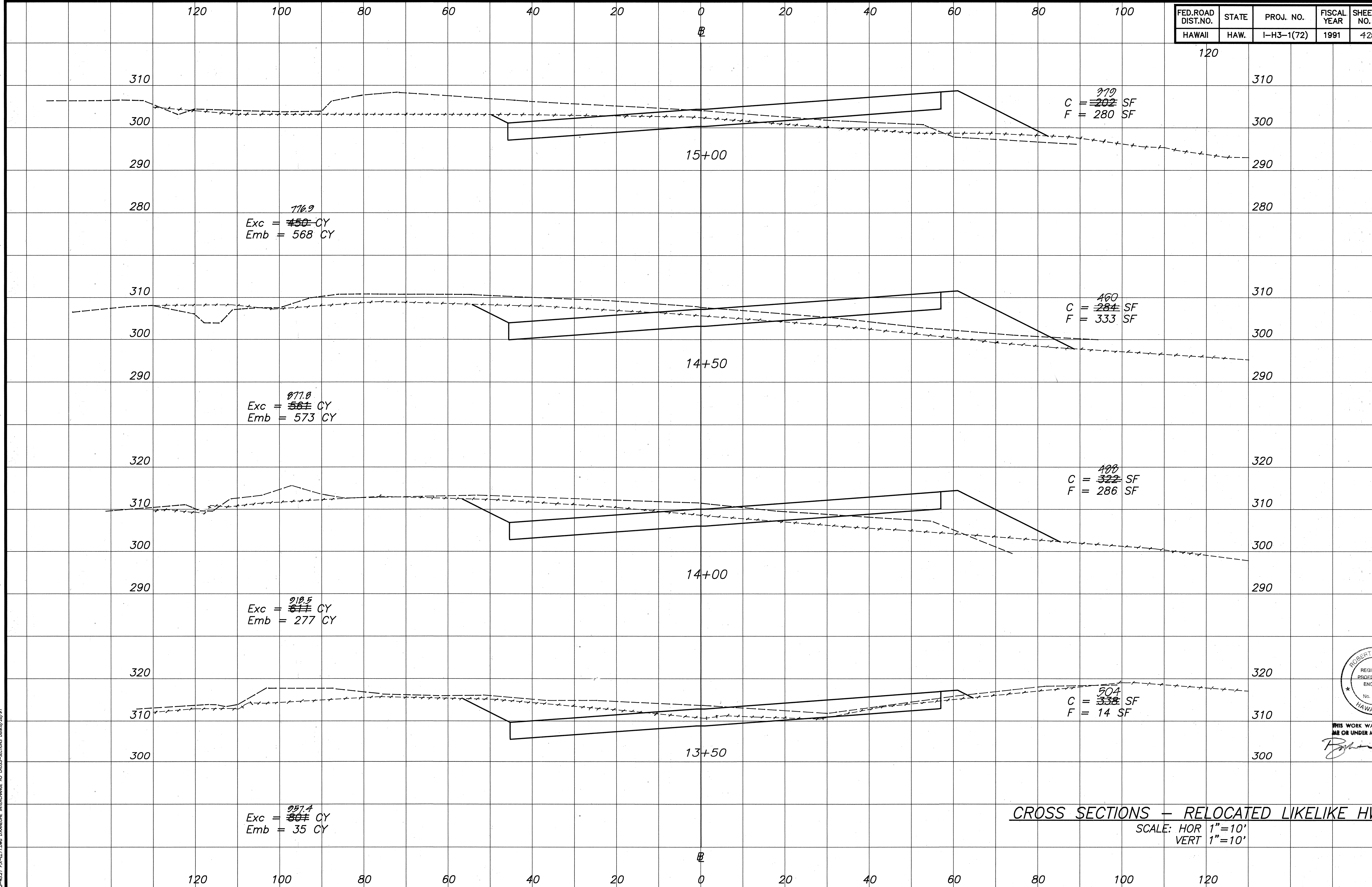
Byron L. Stoyke

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

83-45.21 F:X-LL10.DWG D:KANÉOHE INTERCHANGE H3 CROSS-SECTIONS 6/20/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	428	521

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	DATE
DRAWN BY	DATE
TRACED BY	DATE
CHECKED BY	DATE
NO.	

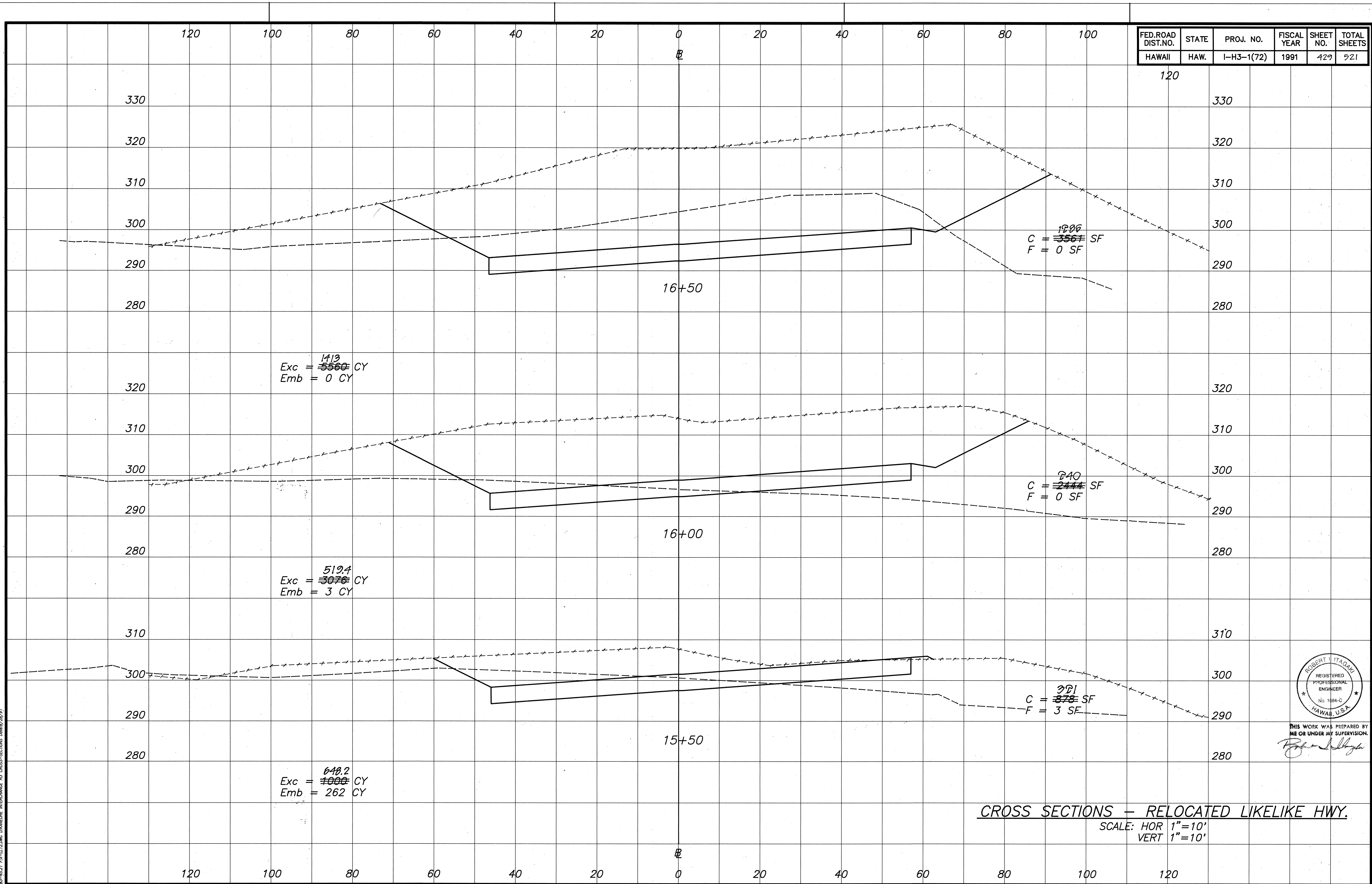


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert H. Hagan

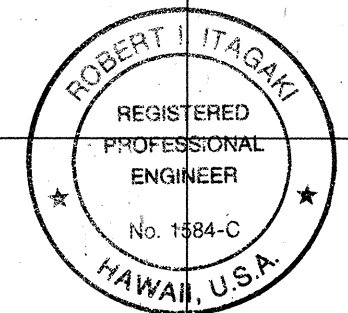
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

82-45.21 EX-LITTING CHANGE W/PERMITS AT CROSS-SECTIONS 15+50/16+00



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	429	521

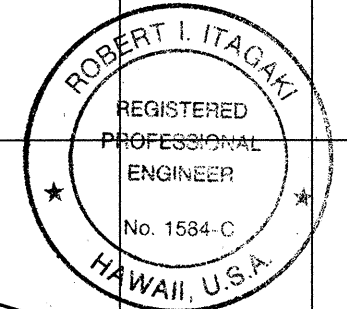
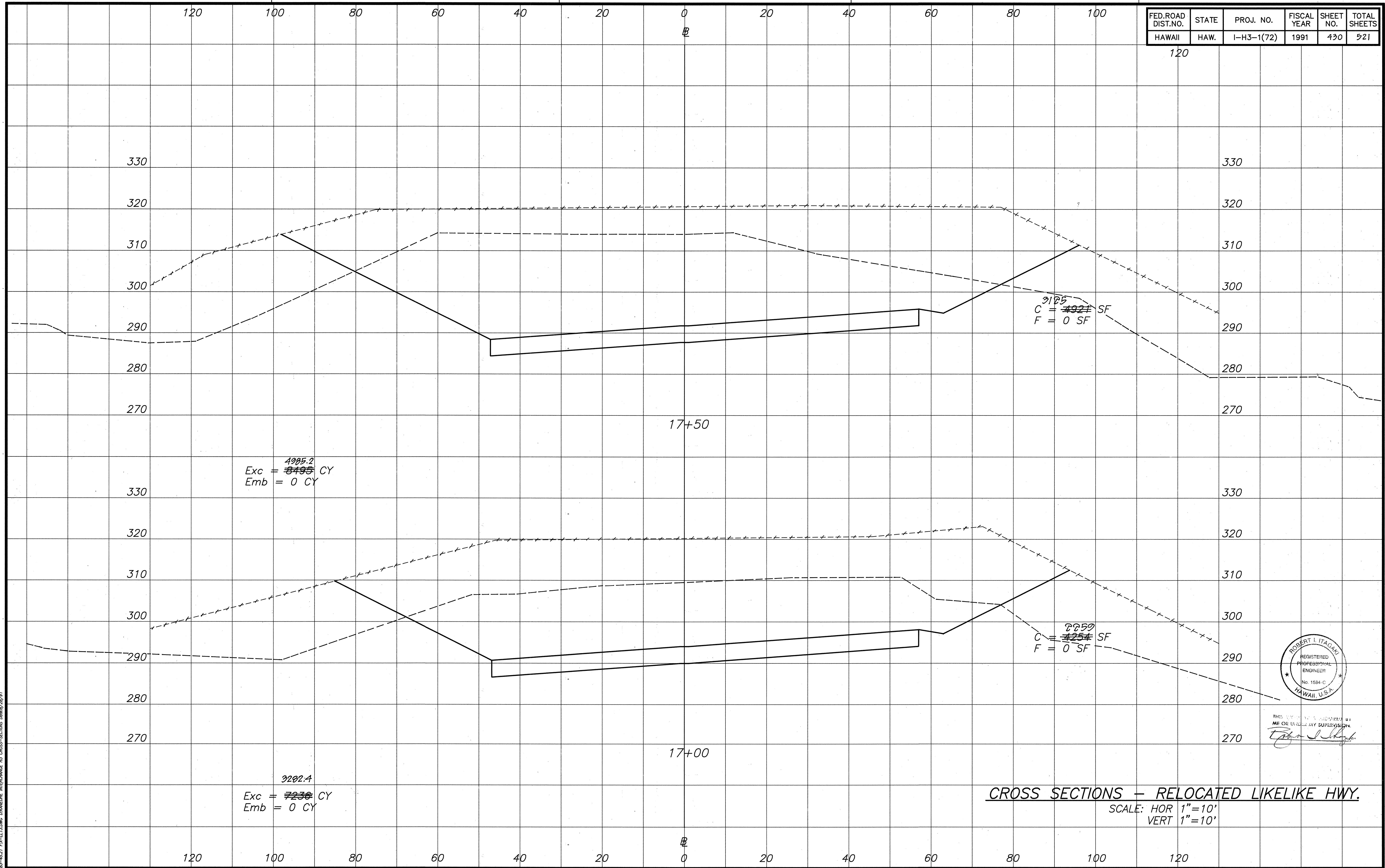


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert J. Itagaki

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

03-4521 (24-11-20) EXAMINE APPROXIMATE AS SHOWN - SEEING DATED 10/20/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	430	521



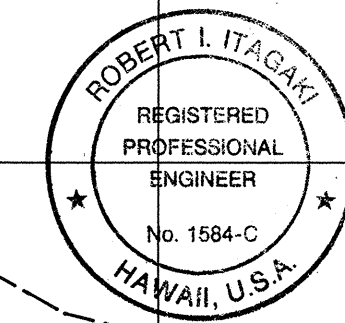
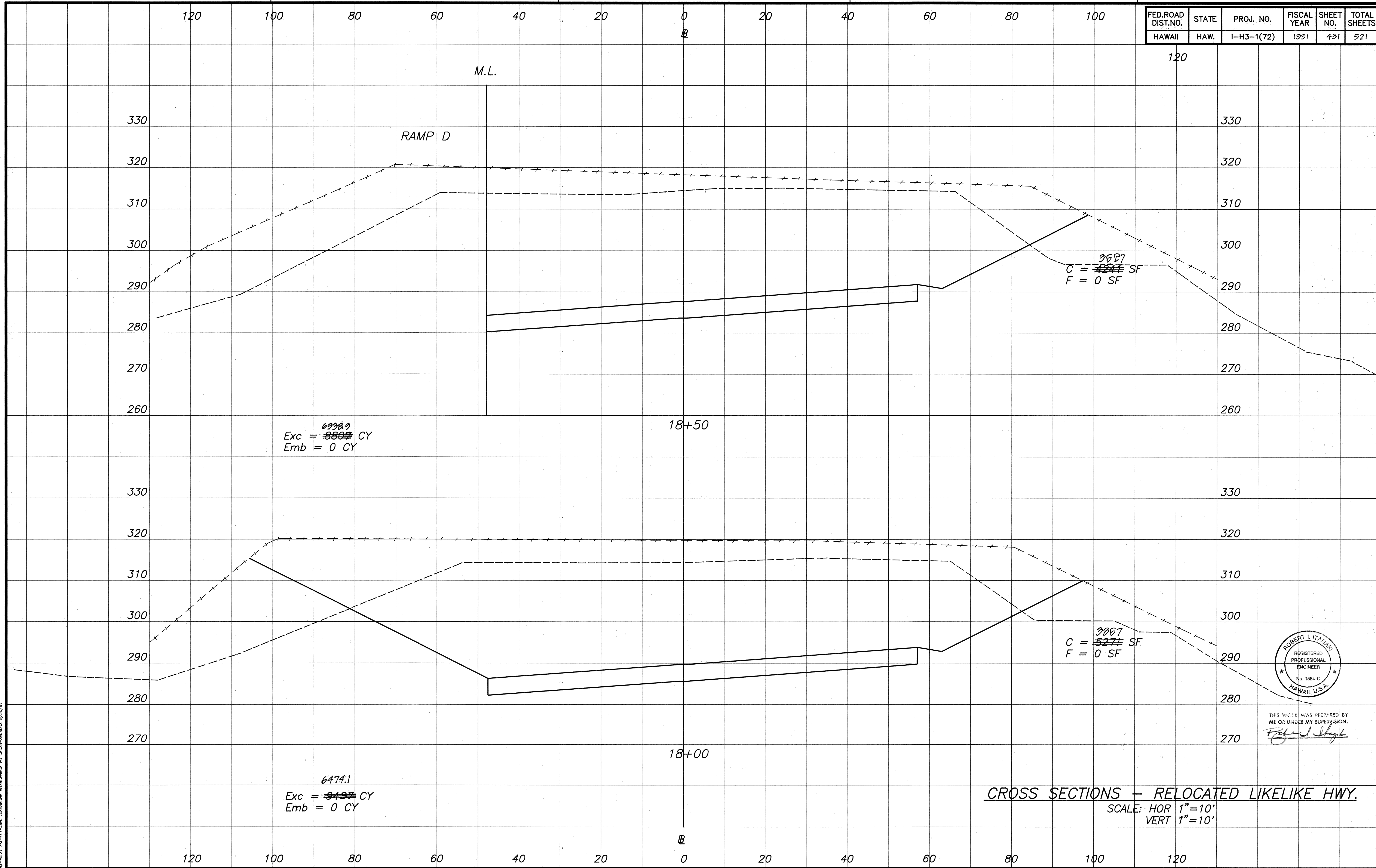
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

81-46.21 EX-111 LONG DAWKNEY INTERCHANGE (A) CROSS-SECTIONS 6/20/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	431	521



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Robert L. Itagaki

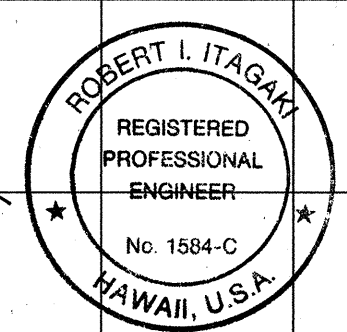
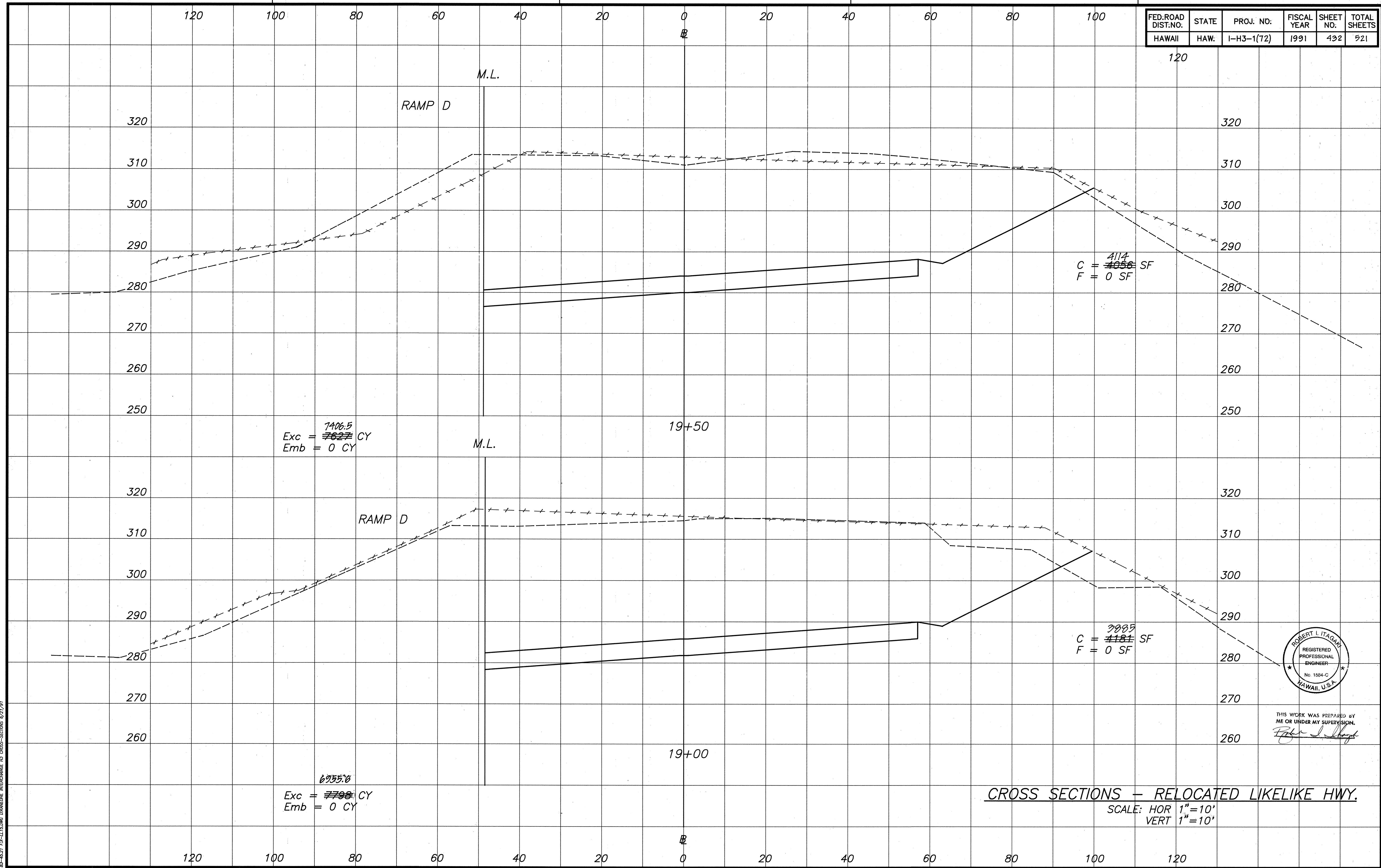
CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	432	521

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

81-46-21 EX-11 LONG SPAN BRIDGE INTERCHANGE AT CROSS-SECTION 6/21/91



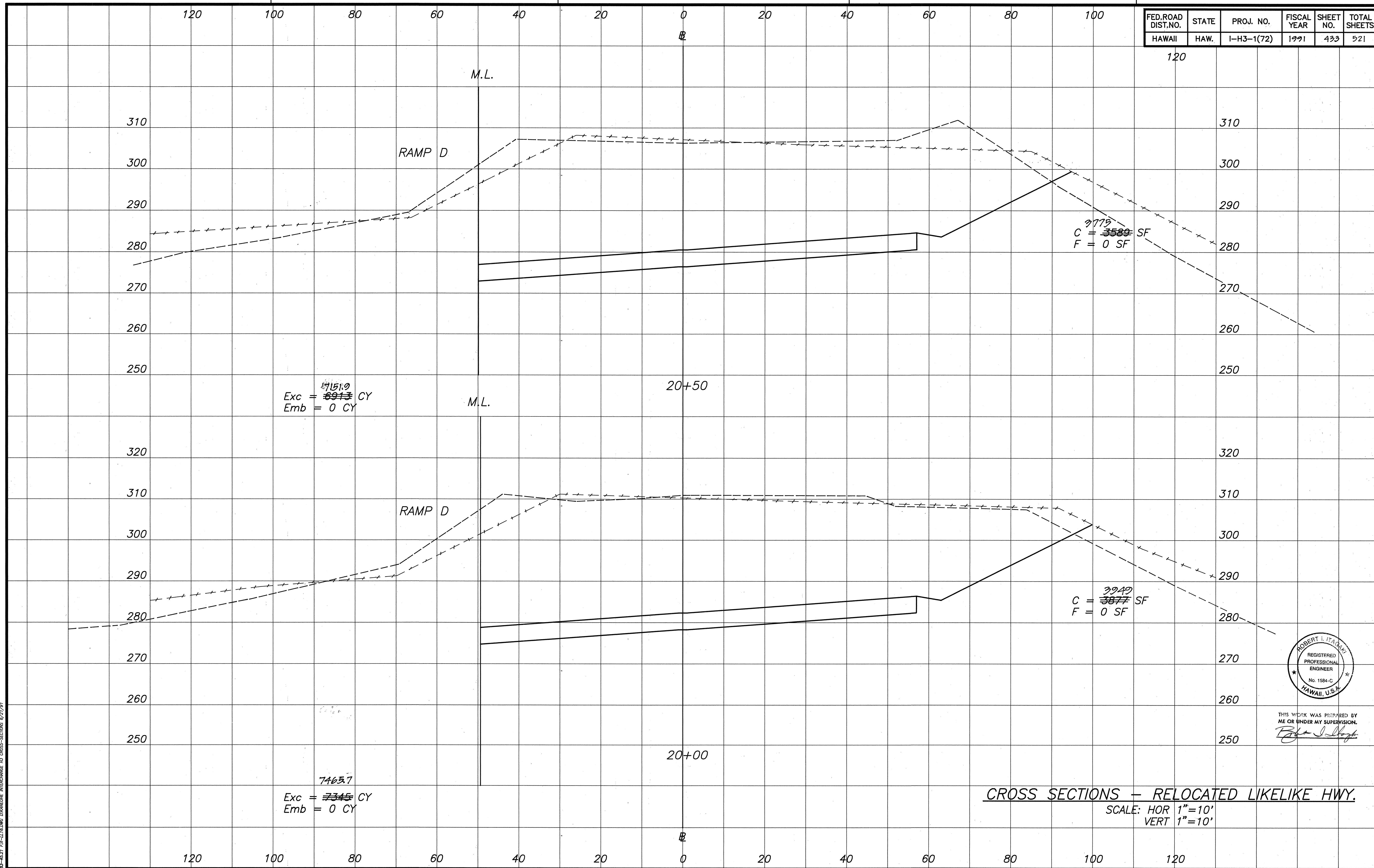
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert L. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

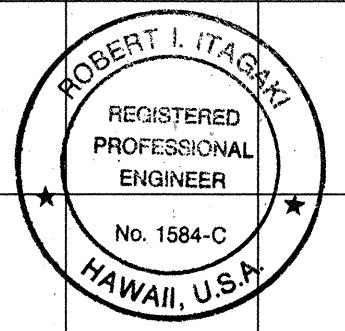
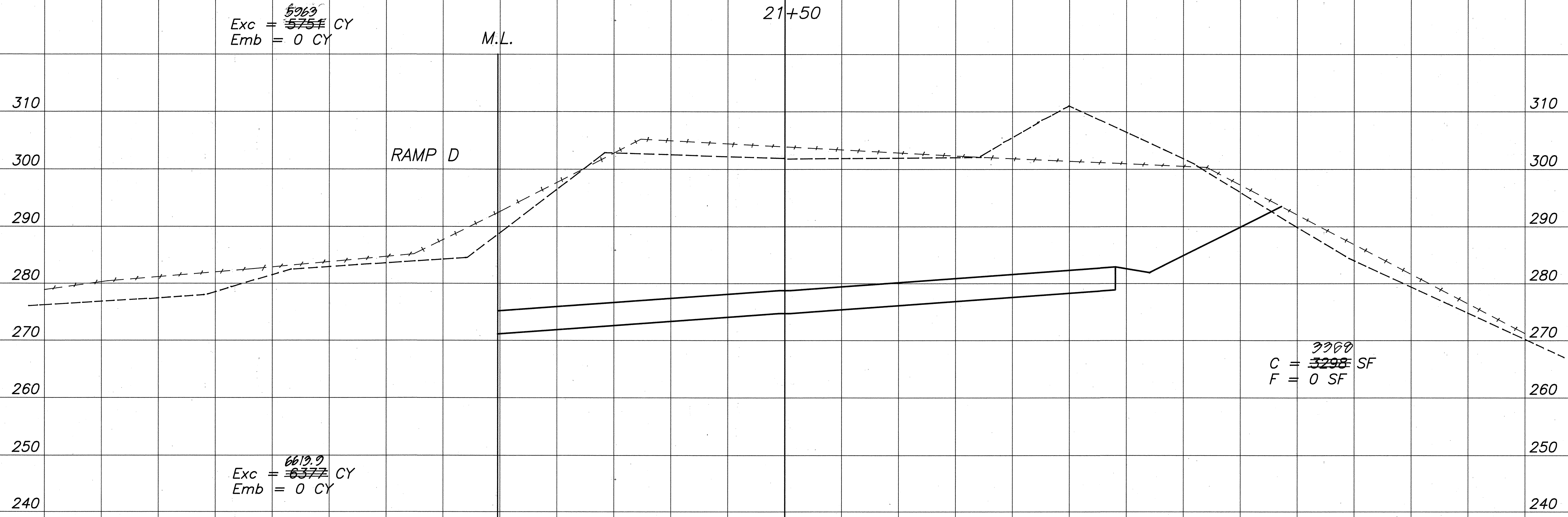
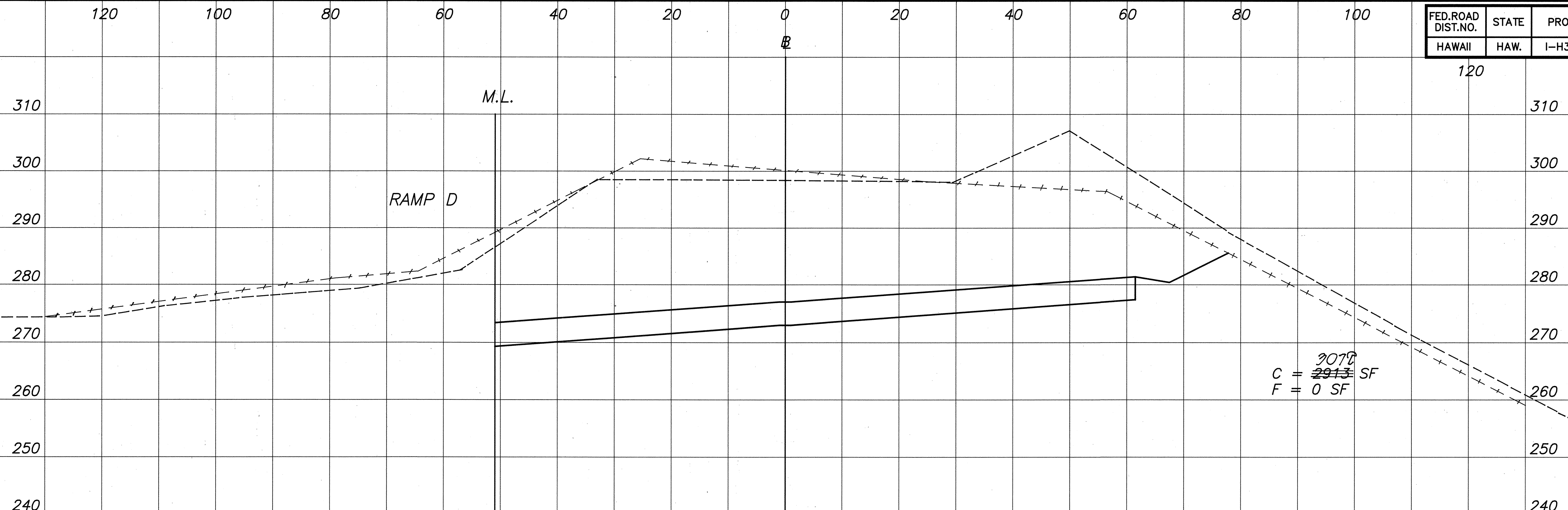
ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	DESIGNED BY _____
No. _____	QUANTITIES BY _____	CHECKED BY _____

83-4521 EX-L116100 PLANEVIEW INTERCHANGE AT CROSS-SECTIONS 6/21/81

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	433	521



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	434	521



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Robert I. Itagaki

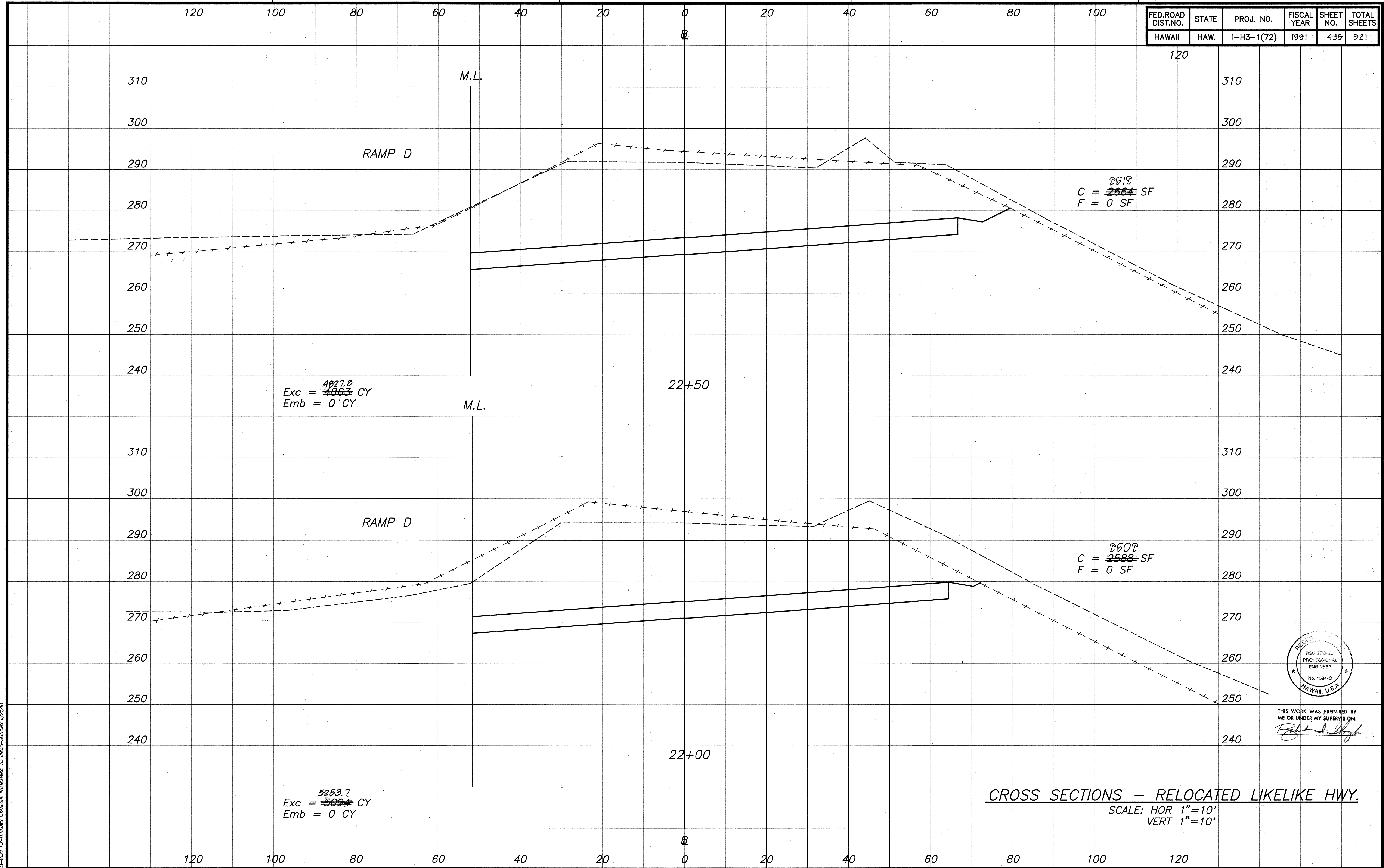
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN
DATE
DRAWN BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
No.

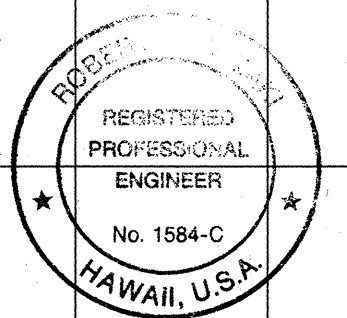
81-45-22 EX-117 JWG HWY/DRG INTERCHANGE H3 CROSS-SECTIONS 6/21/91

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

83-4521 FM-LIKE HWY OVERPASS INTERCHANGE 6/21/91



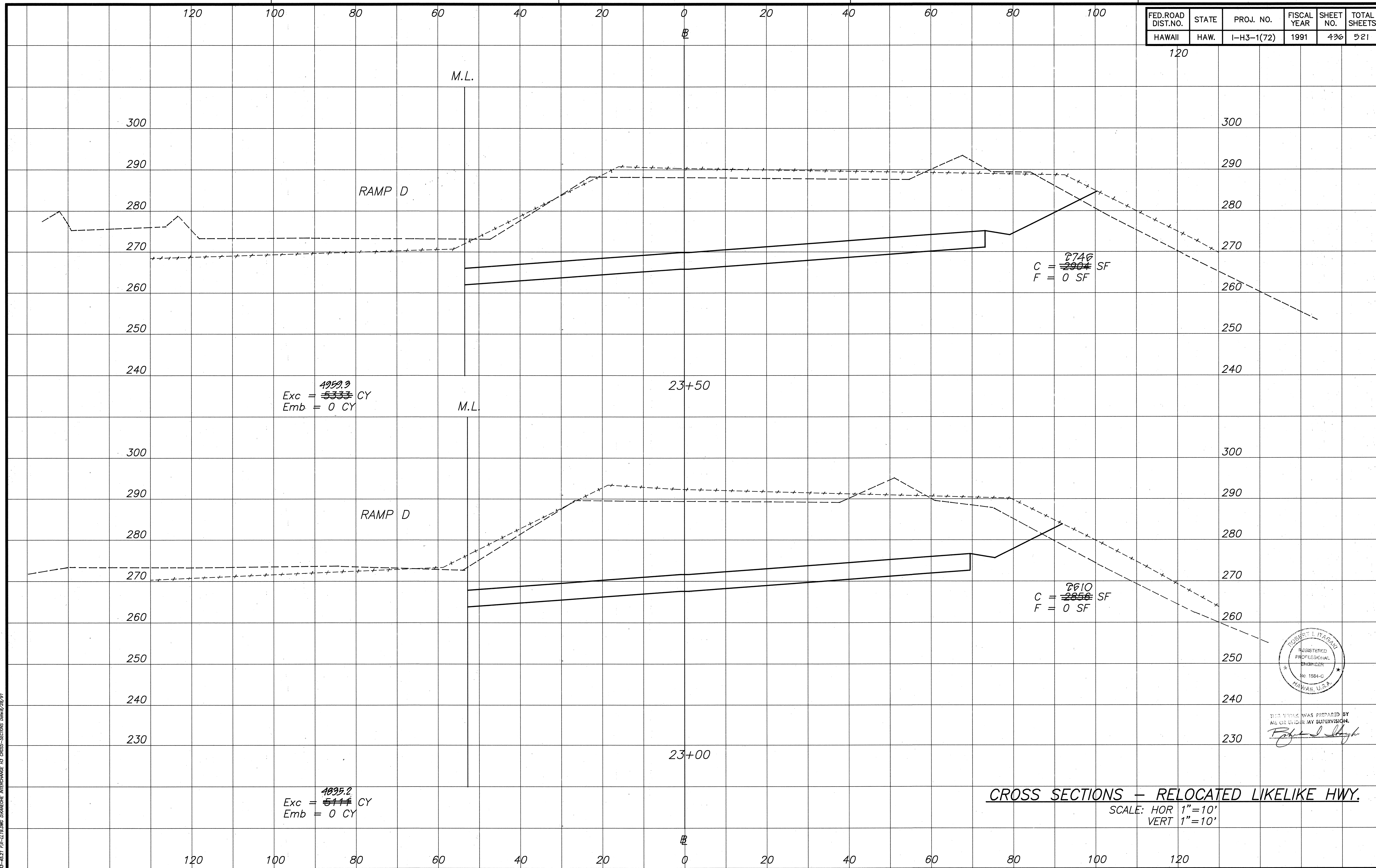
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	435	521



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Robert J. Smith

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	436	521



CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR	1"=10'
VERT	1"=10'

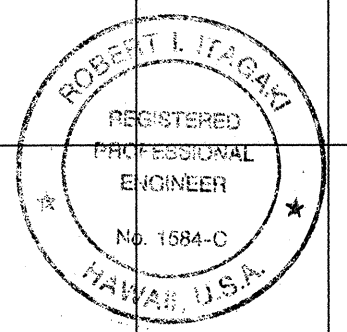
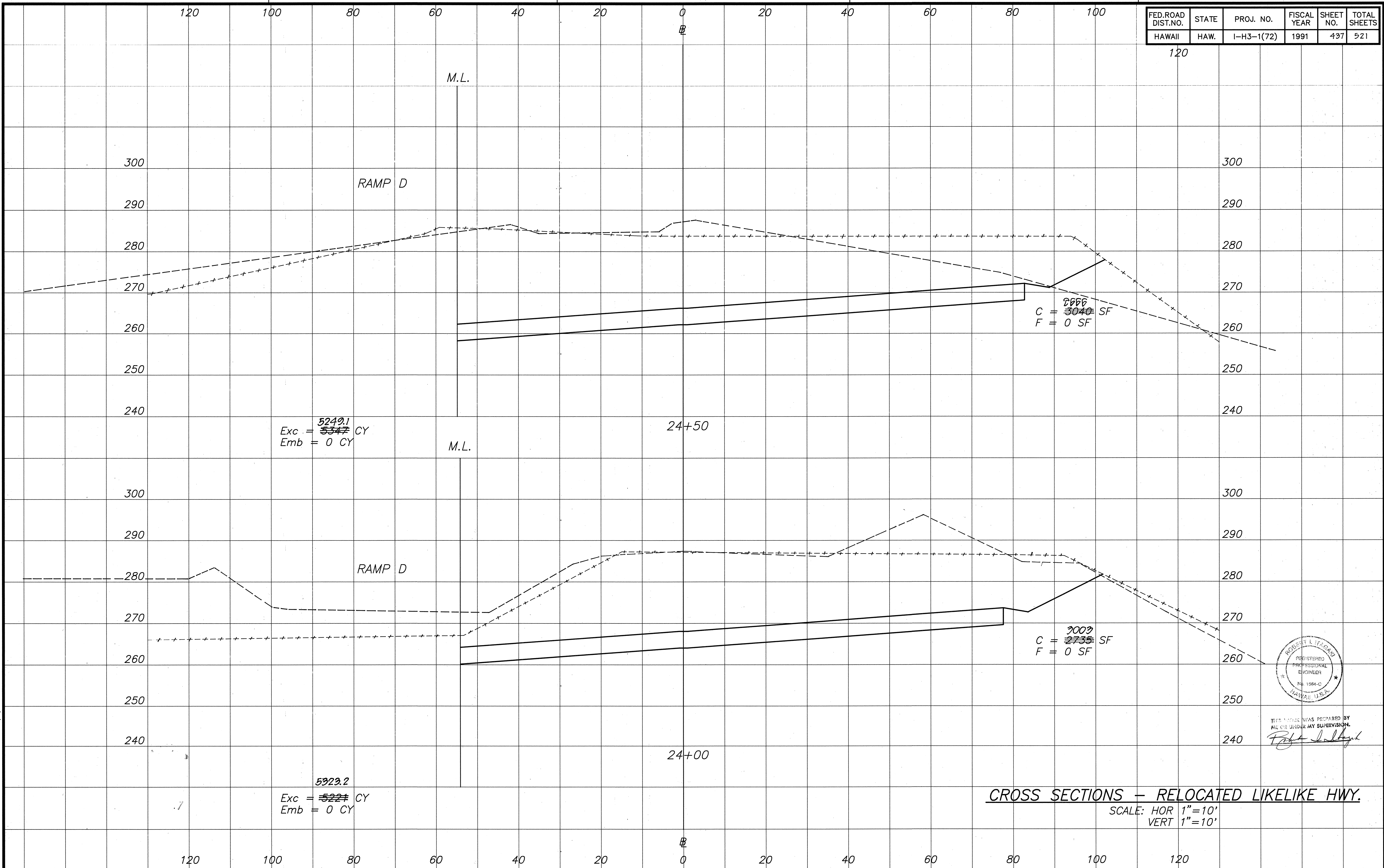
A circular professional engineer seal for Robert I. Itagaki. The outer ring contains the text "ROBERT I. ITAGAKI" at the top and "HAWAII, U.S.A." at the bottom. The inner circle contains the text "REGISTERED PROFESSIONAL ENGINEER" and "No. 1584-C". There are small stars on either side of the number.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert J. Meyer

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

97-46 24 5.V-1110 DMC DYNAMIQUE INTERCHANGE U7 CROSS-SECTIONS DATE: 8 / 28 / 01

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	437	521



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Robert L. Hagarty

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

81-4511 PK-1120 LONG CHANGE INTERCHANGE AT CROSS-SECTIONS 8/29/91

ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

83-4821 FM-121 DMC CHANGE NO. 1 CROSS SECTIONS Dwg. 28/29

Exc = ~~3540~~ 3141.7 CY
Emb = 186 CY

RAMP D

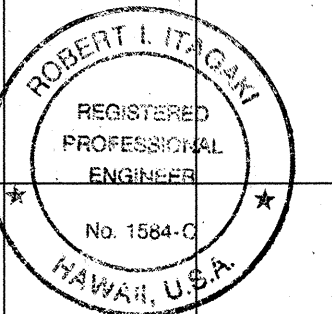
M.L.

25+00

M.L.

LIKELIKE EMERGENCY
ESCAPE RAMP

C = ~~783~~ 767 SF
F = 201 SF

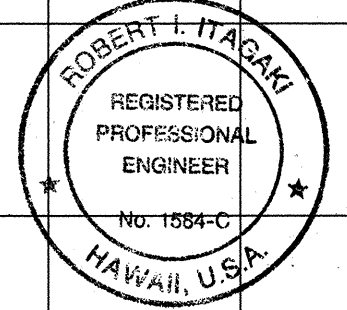
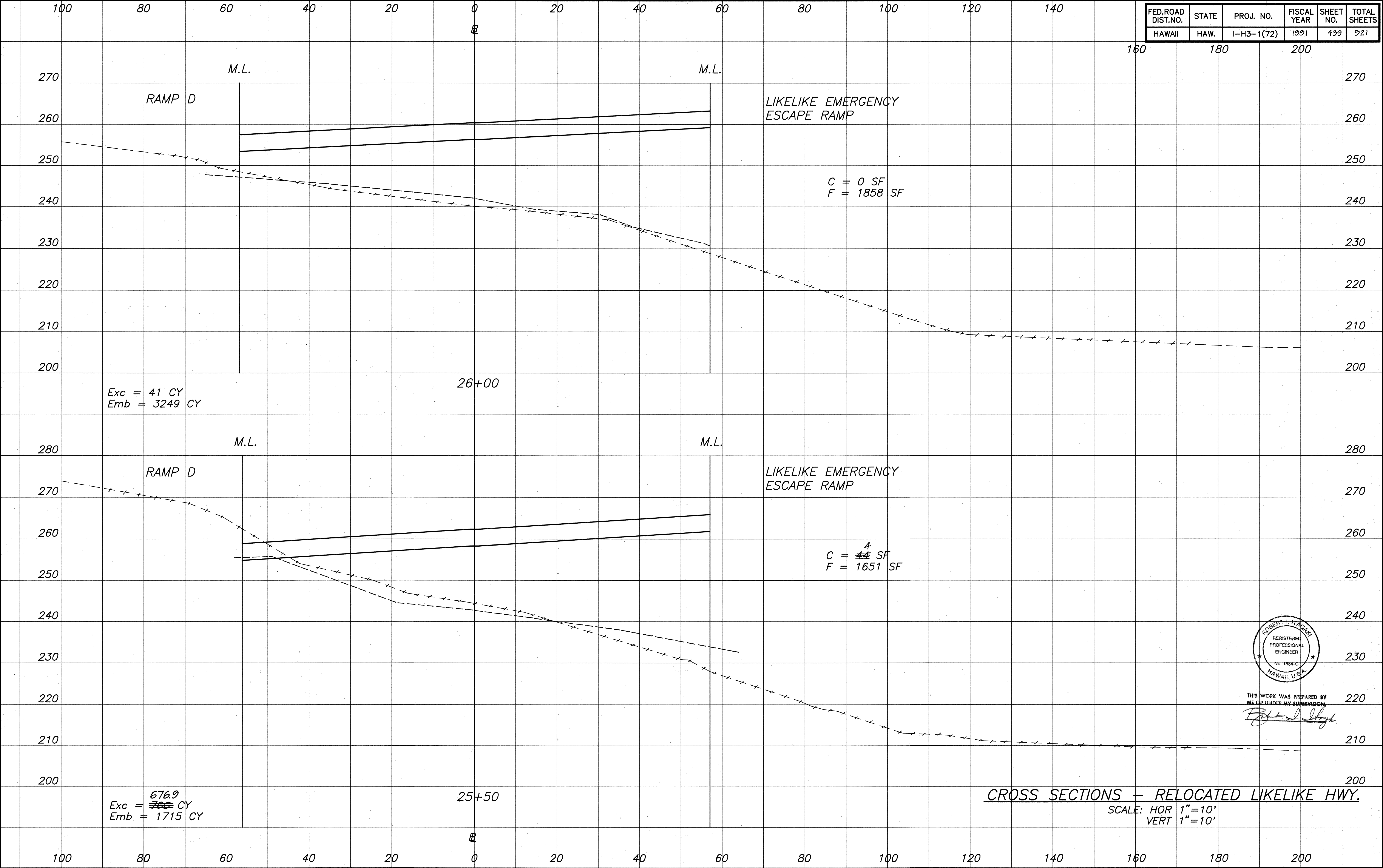


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ME OR UNDER MY SUPERVISION.
Robert L. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	439	521



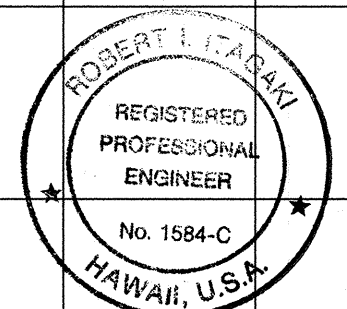
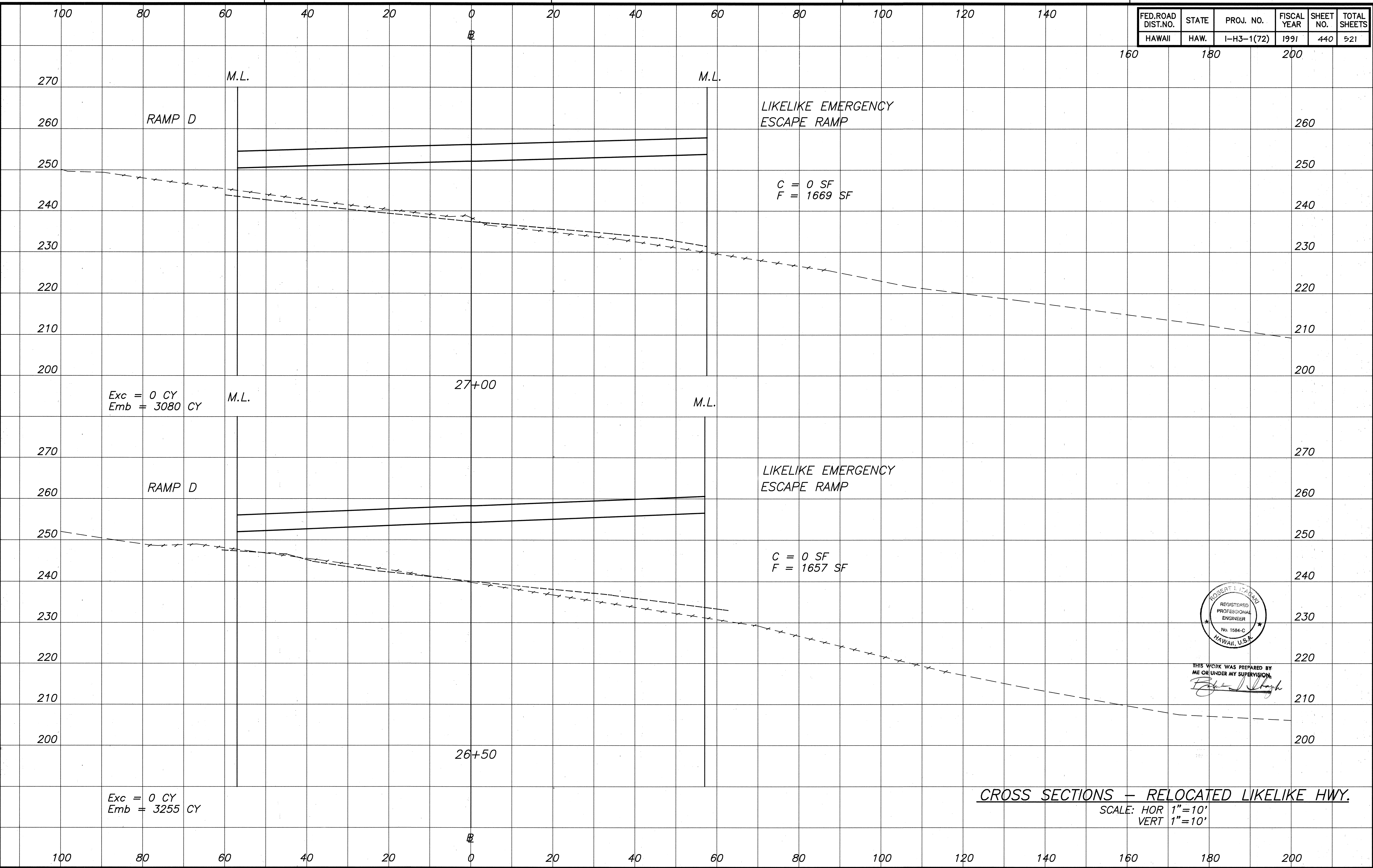
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Robert L. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

83-4621 EX-1122-100 CHANGE 1/3 CROSS SECTIONS 6/21/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	440	521



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Robert L. Itano

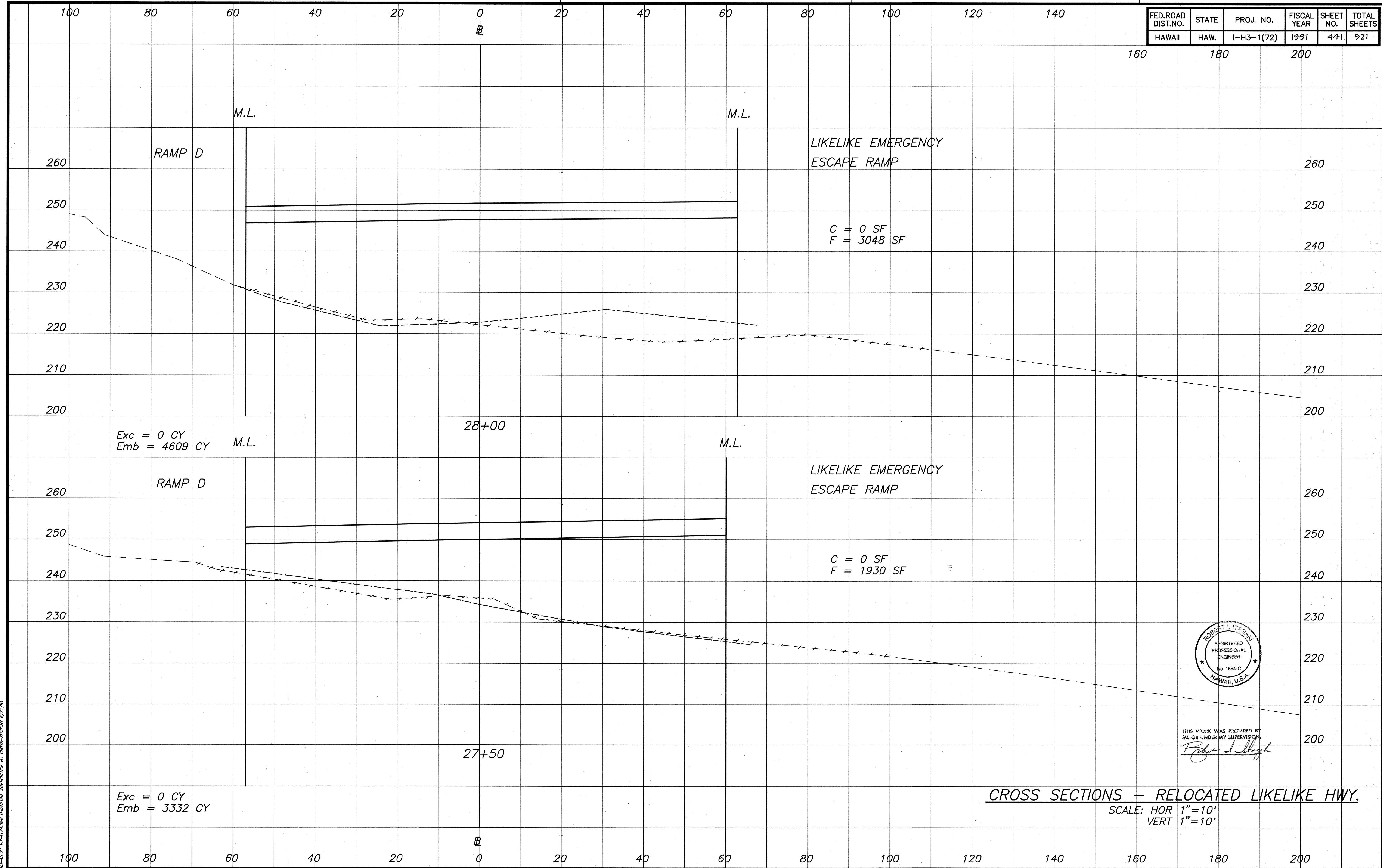
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

61-43-21 EX-112 LING CHANGWEI INTERCHANGE I-1 CROSS-SECTION 6/21/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	441	521

160 180 200

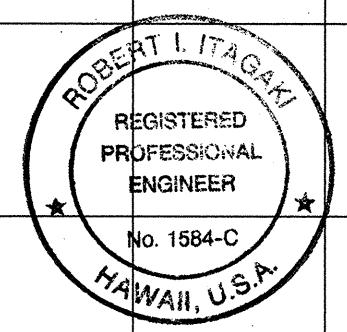


Exc = 0 CY
Emb = 4609 CY

Exc = 0 CY
Emb = 3332 CY

C = 0 SF
F = 3048 SF

C = 0 SF
F = 1930 SF



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Robert L. Itagaki

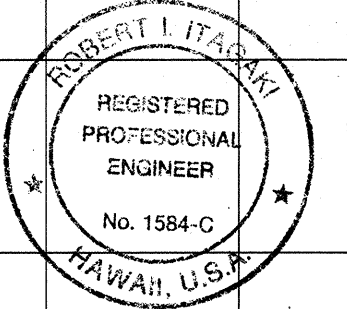
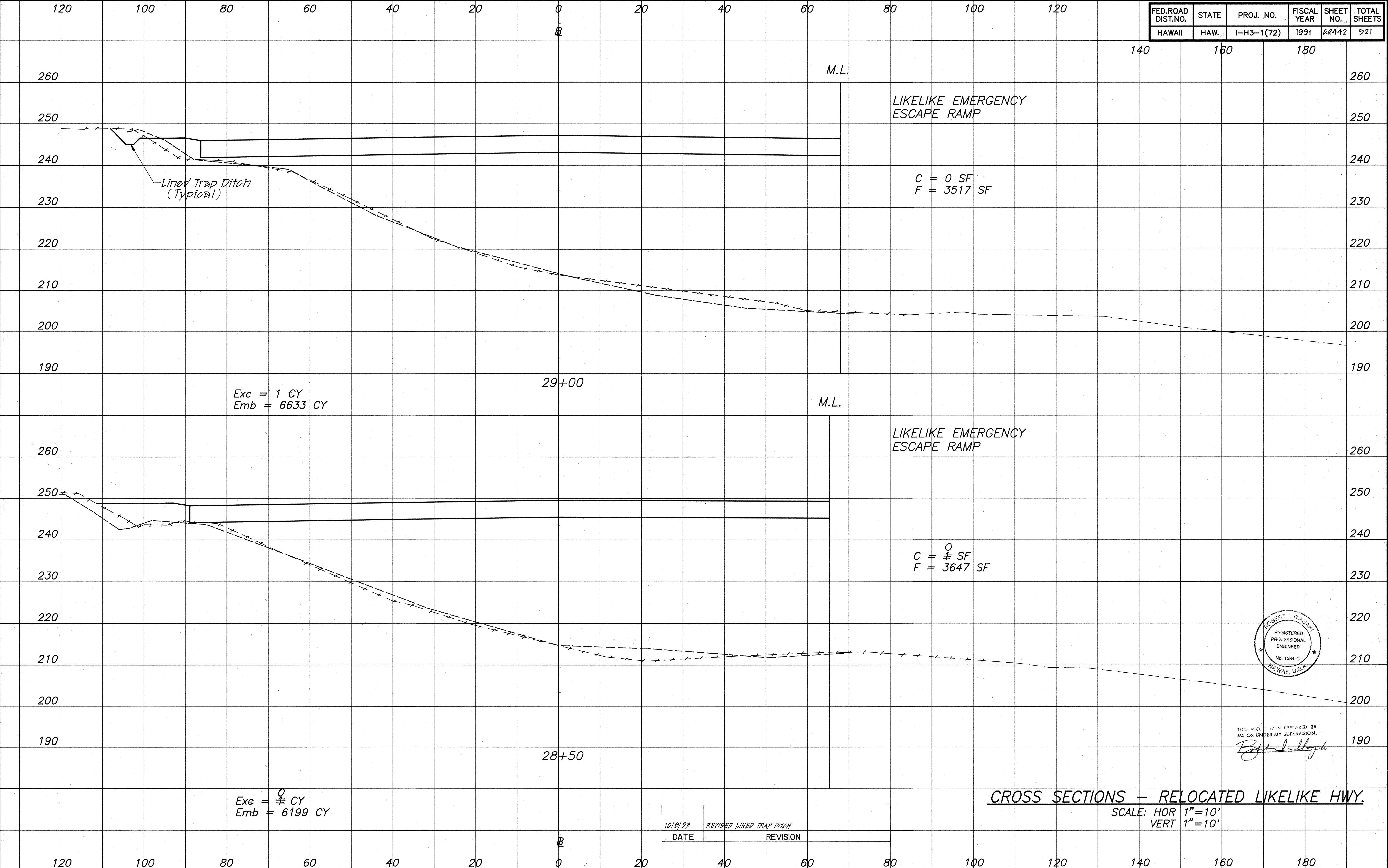
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

61-45-21 EX-124.0MG EXCHANGE INTERCHANGE 43 CROSS-SECTIONS 8/21/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	2442	521

140 160 180



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Robert I. Itasca

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'

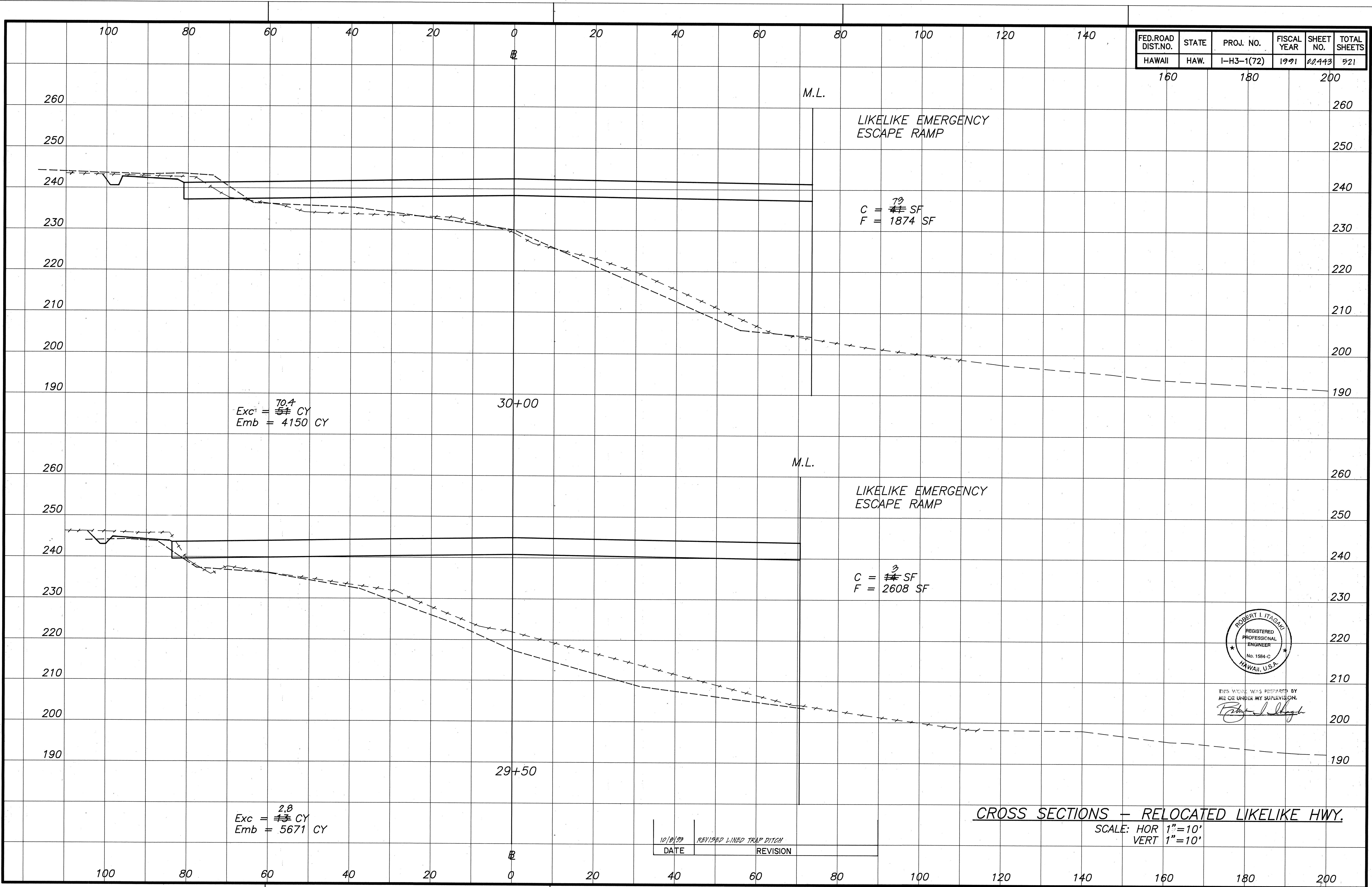
10/0/99	REVISED LINED TRAP PITCH
DATE	REVISION

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

81-42.21 EX-125.000 DRAINAGE INTERCHANGE 43 CROSS-SECTIONS 6/21/91

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
No.	

83-421 EX-126.0MG DAWKINS INTERCHANGE 43 CROSS-SECTIONS 6/21/91



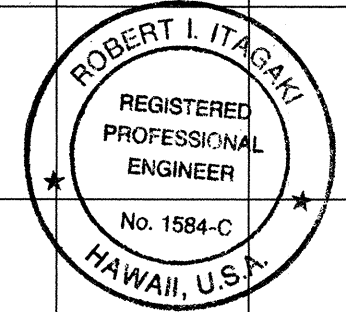
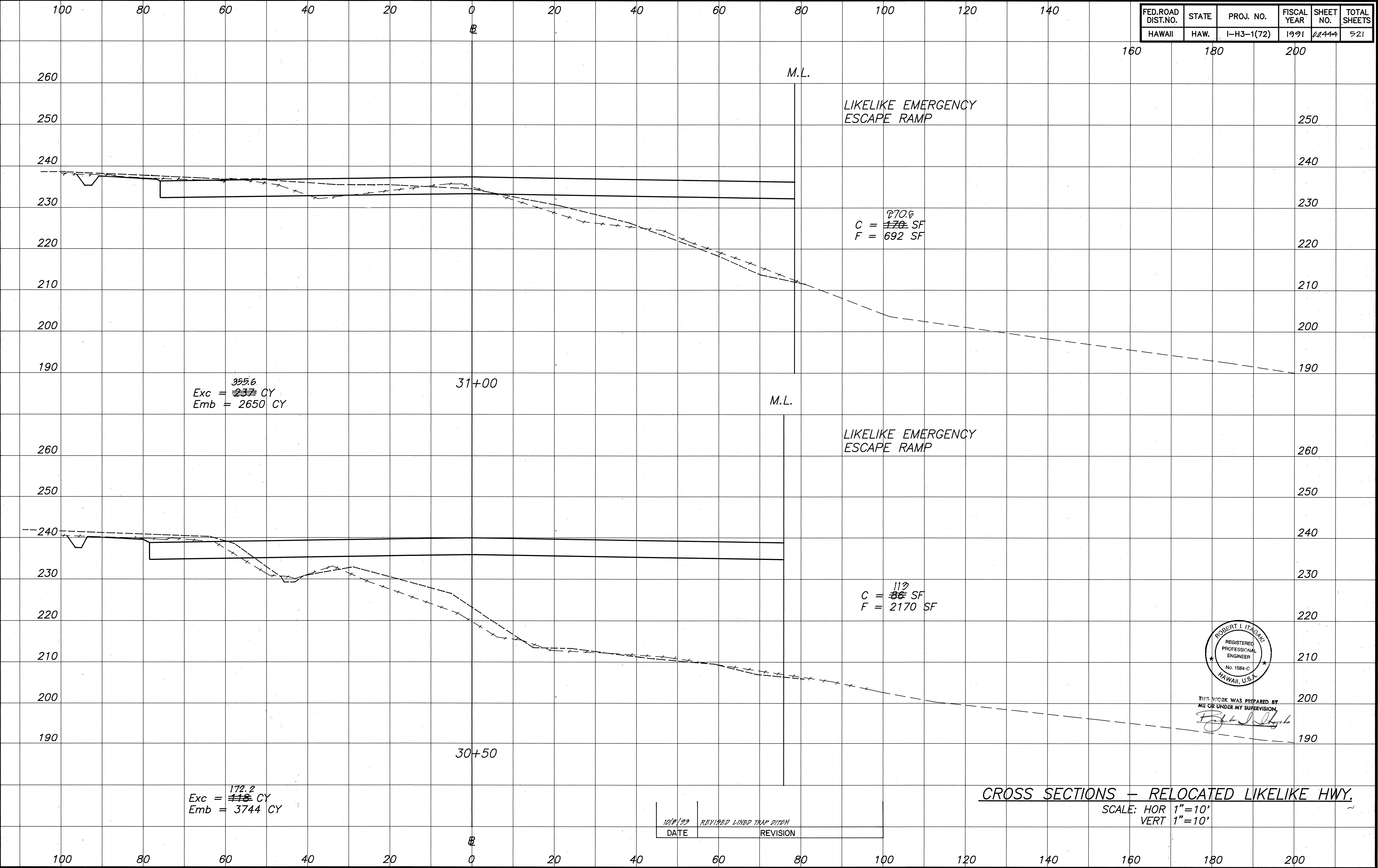
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	20443	521

160 180 200

CROSS SECTIONS - RELOCATED LIKELIKE HWY.

C.O.443

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	444	521



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[Signature]

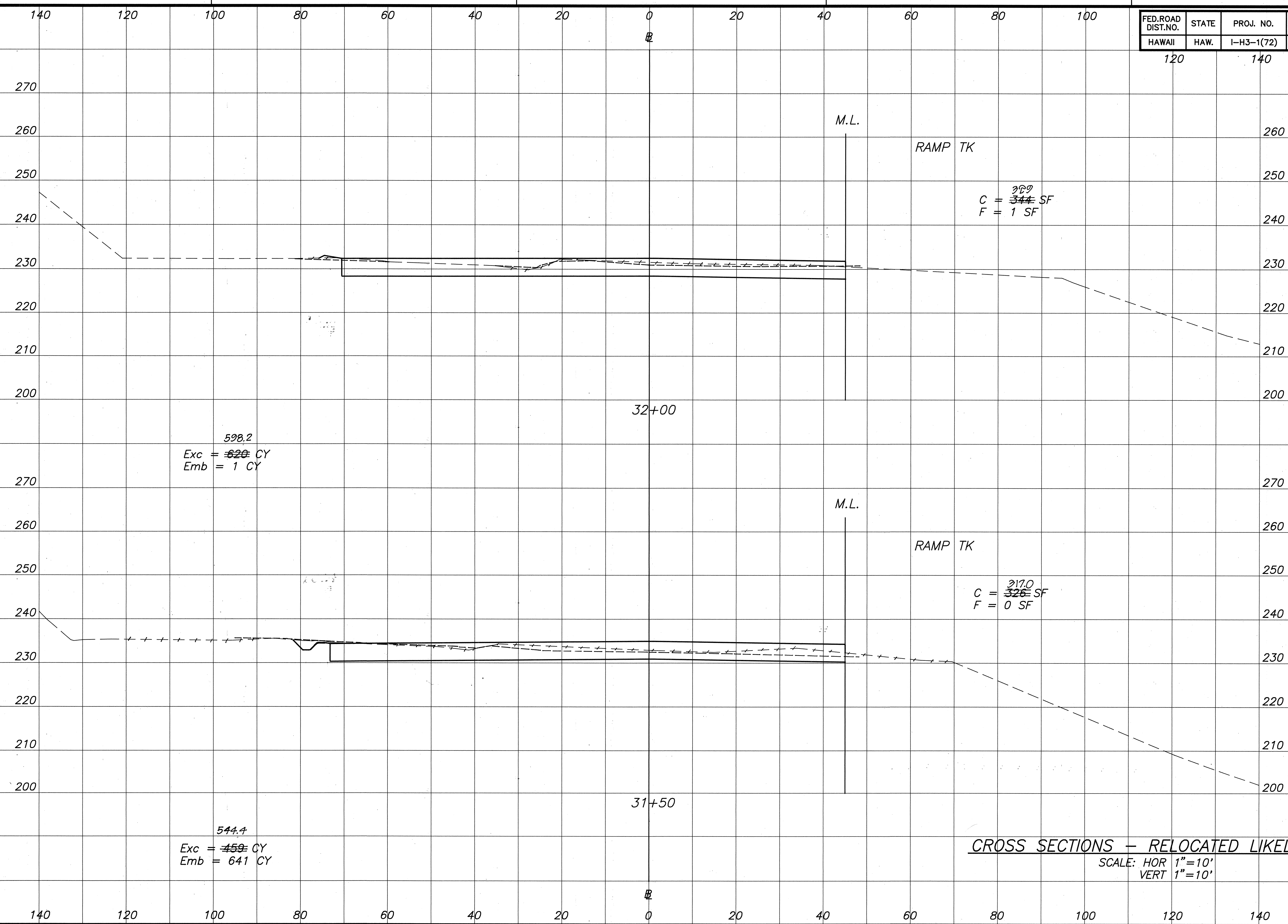
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

DATE	REVISION
12/8/92	REVISED LINED TRAP DITCH

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

81-42.1 PK-127.00 DRAINAGE INTERCHANGE 1/3 CROSS-SECTIONS 6/22/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	445	521

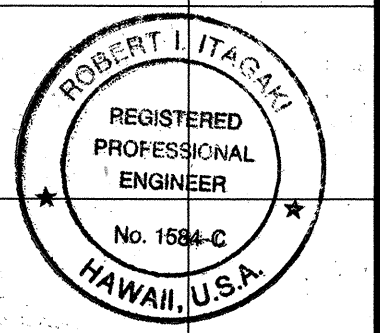


598.2
Exc = ~~620~~ CY
Emb = 1 CY

344
C = ~~344~~ SF
F = 1 SF

544.4
Exc = ~~459~~ CY
Emb = 641 CY

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'



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ME OR UNDER MY SUPERVISION.
Robert I. Itagaki

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

83-4621 (24) L&L 2000 HAWAII STATE HIGHWAY DEPARTMENT 6/22/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	446	521

ORIGINAL PLAN

DATE

SURVEY PLOTTED BY

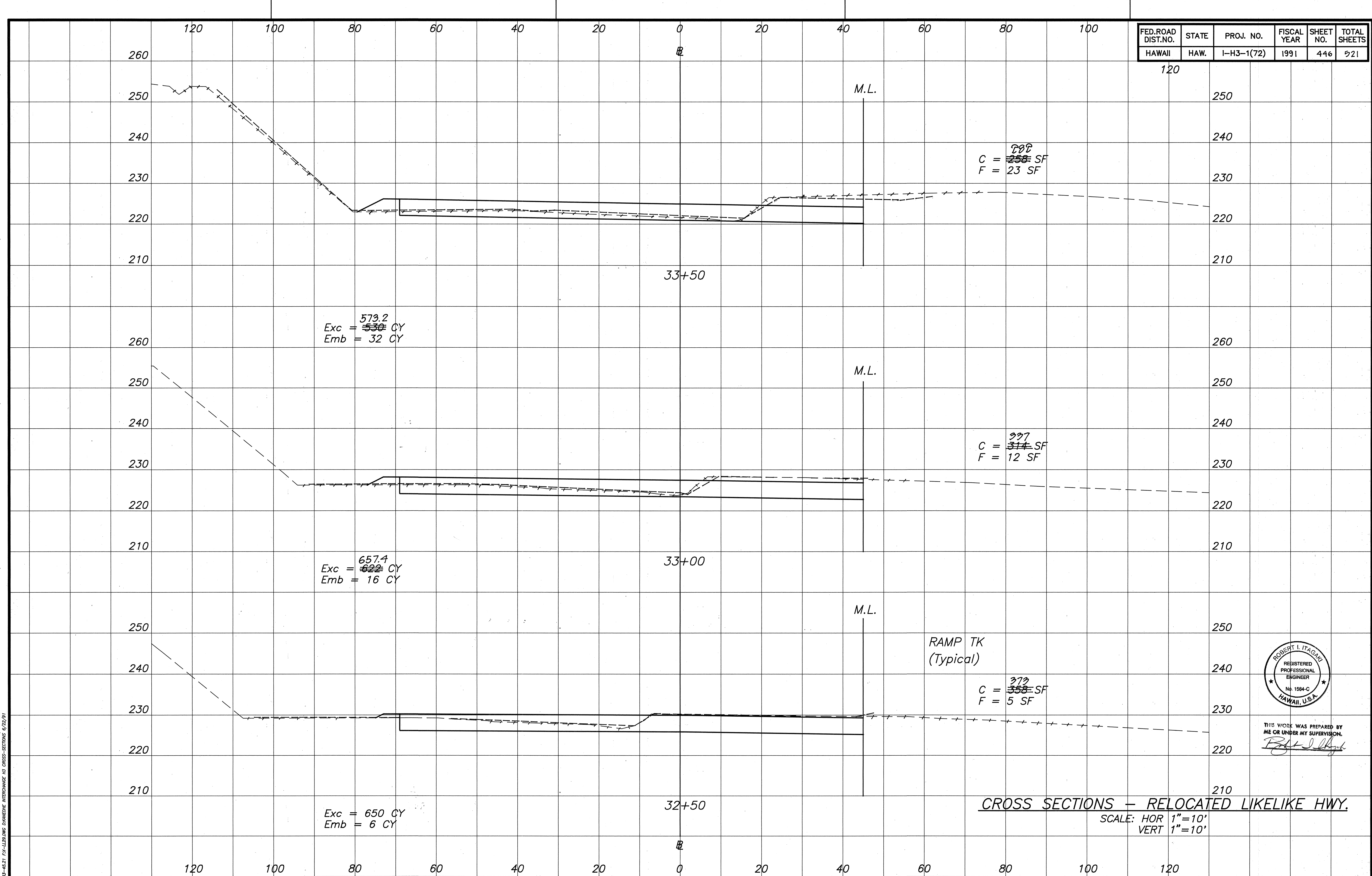
DESIGNED BY

NOTED BY

CHECKED BY

NO.

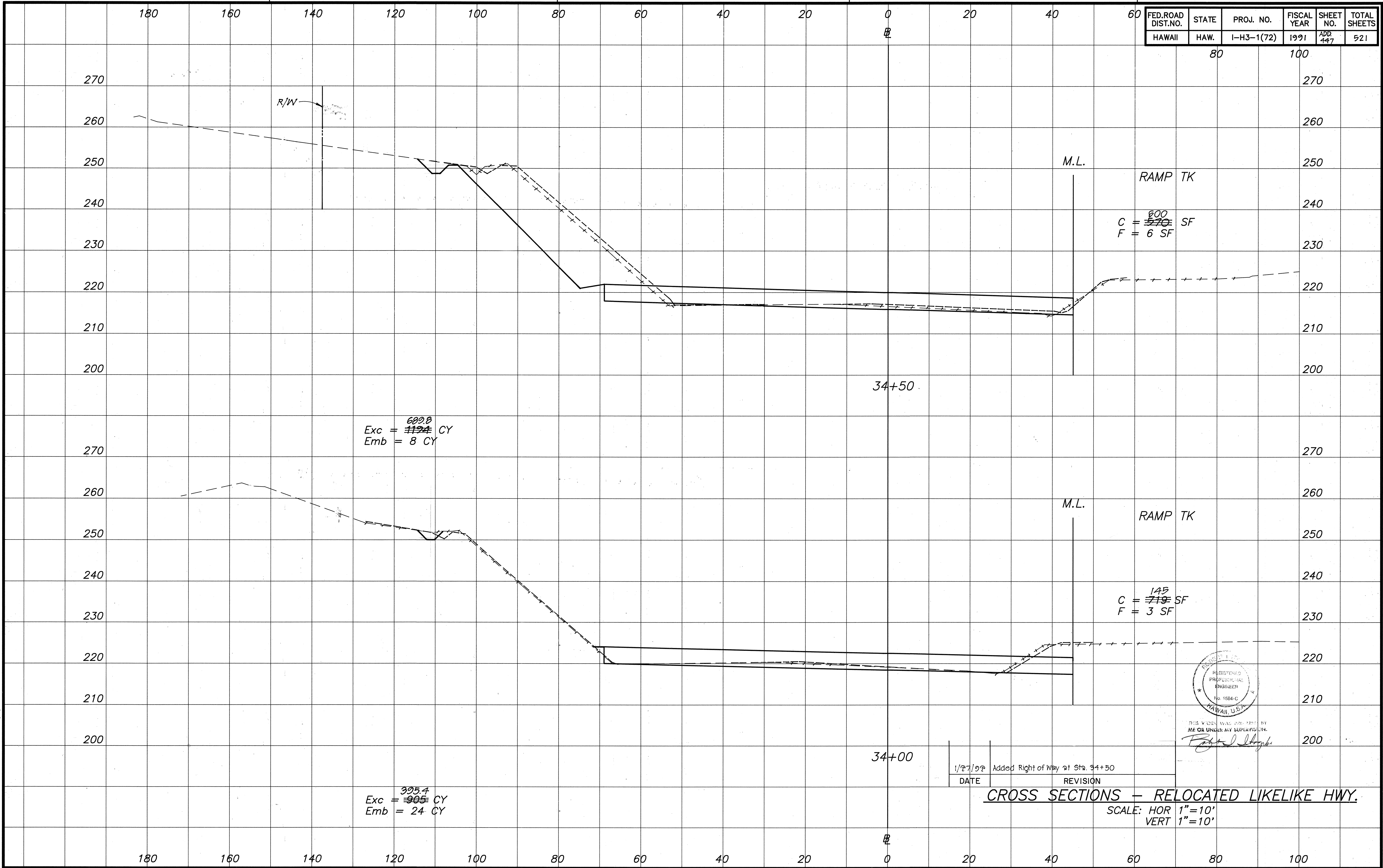
QUANTITIES BY



ORIGINAL
PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY _____ DATE _____
DRAWN BY _____
DESIGNED BY _____
QUANTITIES BY _____
CHECKED BY _____

83-4371 (24-LEADING DASHED) INTERCHANGE 1/3 CROSS-SECTIONS 6/22/91



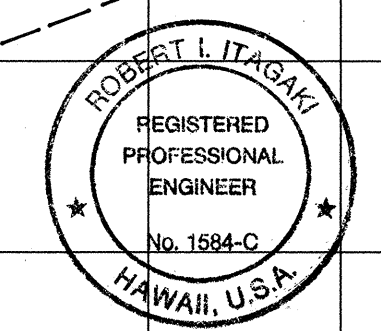
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 448	521

C = ~~1007~~ 1190 SF
F = 57 SF

Exc = ~~1034~~ 1973.2 CY
Emb = 105 CY

C = ~~951~~ 951 SF
F = 56 SF

Exc = ~~1250~~ 1436.1 CY
Emb = 57 CY



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A.E.C. OR UNDER MY SUPERVISION
Robert L. Itagaki

1/27/92	Added Right of Way at Sta. 35+50
DATE	REVISION

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

81-4371 EX-111-DWG CHANGE INTERCHANGE H3 CROSS-SECTIONS 6/24/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD 449	521

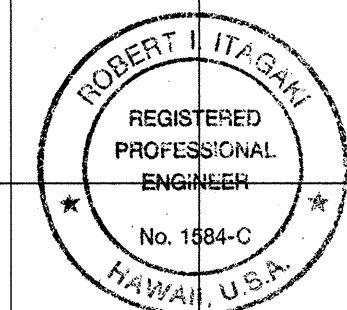
100 120

C = ~~104~~ 104 SF
F = 101 SF

Exc = ~~1062~~ 1142.5 CY
Emb = 180 CY

C = ~~994~~ 1049 SF
F = 93 SF

Exc = ~~1927~~ 2063.9 CY
Emb = 139 CY



1/27/92 Added Right of Way at Sta. 36+00 and 36+50
DATE REVISION

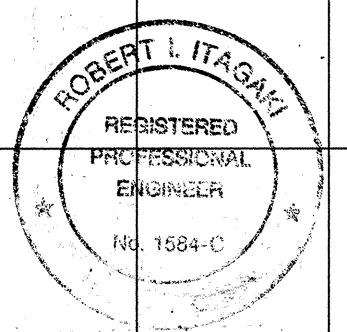
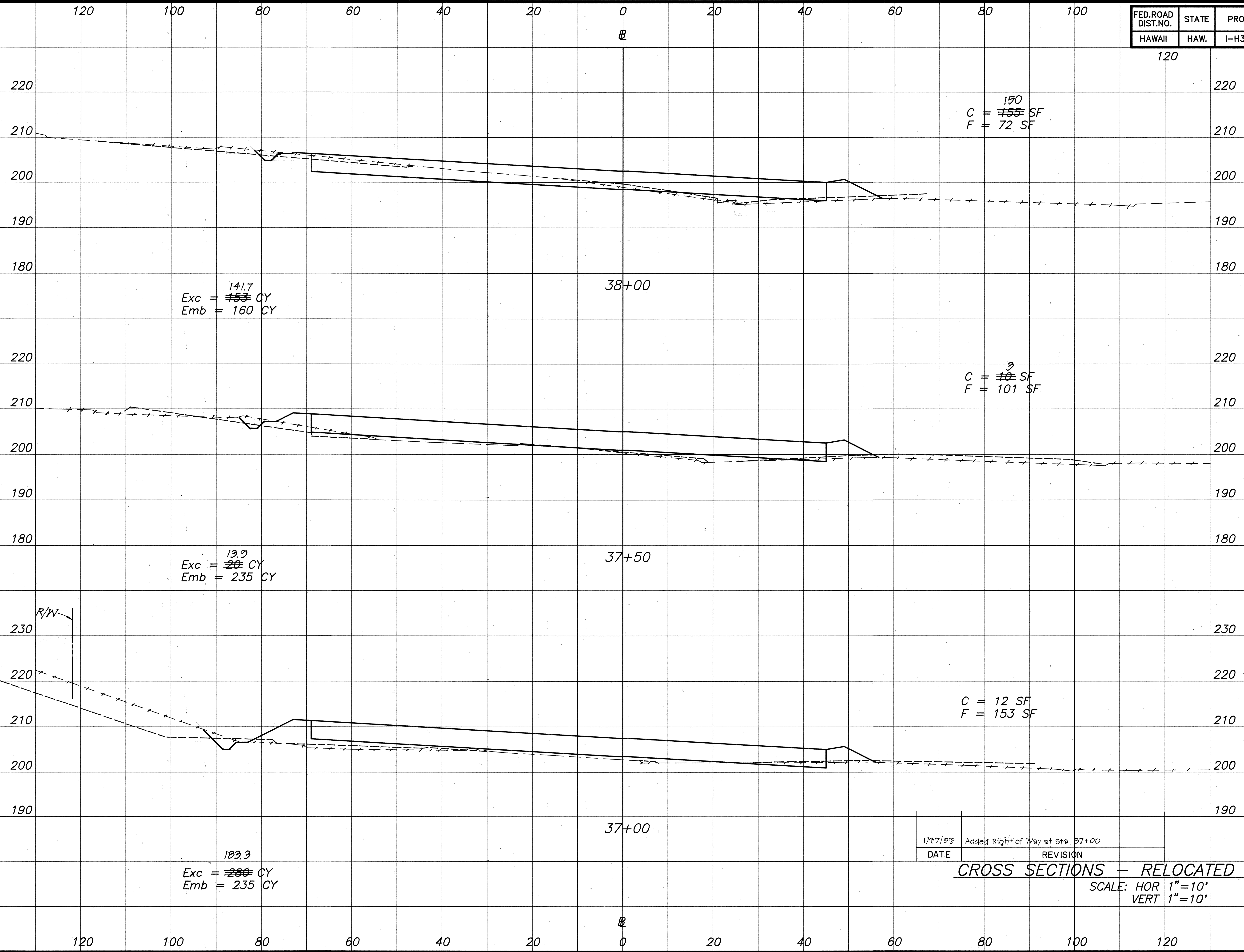
CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

81-4371 EX-112100 EXCHANGE INTERCHANGE 6/24/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD 450	521



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Robert L. Itagaki

1/27/98	Added Right of Way at Sta. 37+00
DATE	REVISION

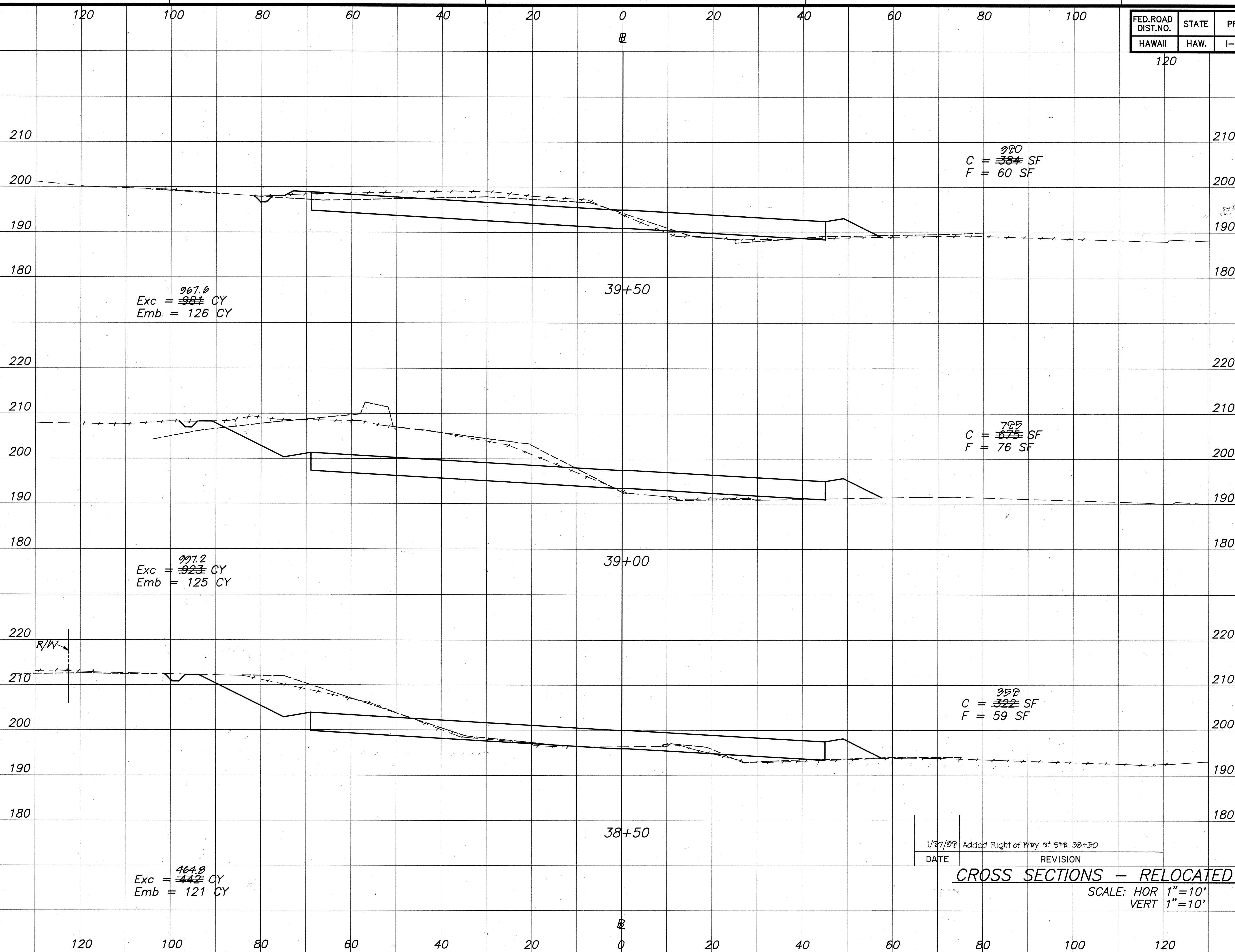
CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		
No.		

61-4621 EX-111 LONG SHANEWE INTERCHANGE AT CROSS-SECTIONS 6/24/91

ADD.450

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD 451	521

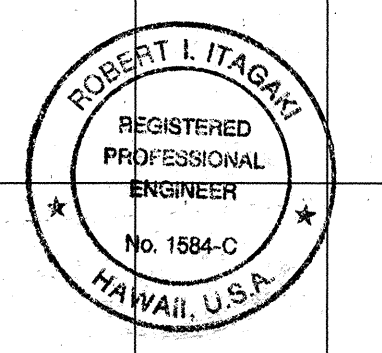


ORIGINAL PLAN	DATE
SURVEYED BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
NO.	

81-4621 (3)-LIKELIKE DRAINAGE INTERCHANGE HI CROSS-SECTIONS 6/24/91

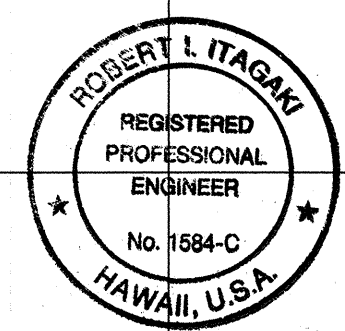
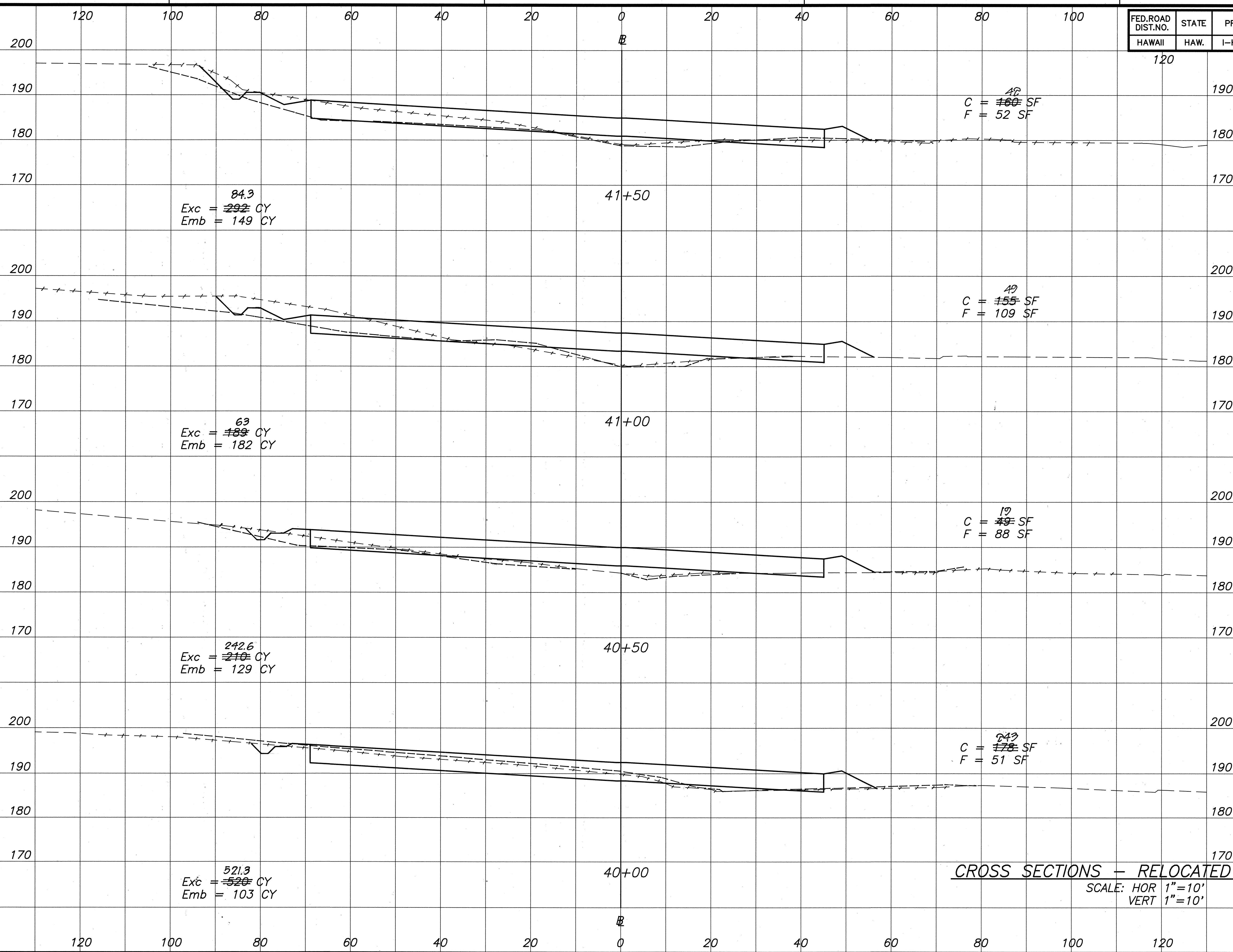
1/27/92	Added Right of Way at Sta. 38+50
DATE	REVISION

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'



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Robert L. Itagaki

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	452	521



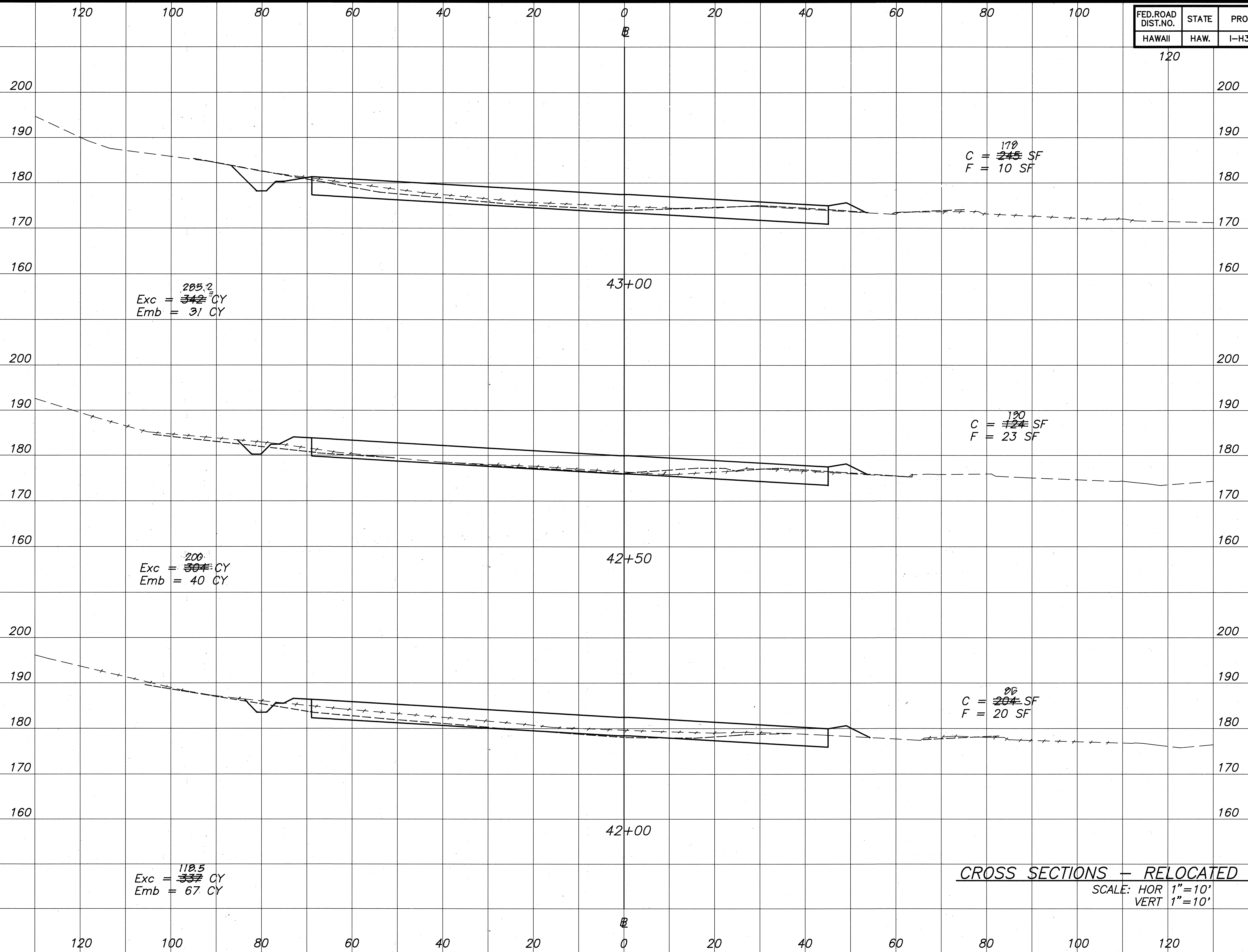
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert L. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

81-43.21 EX-11.1000 DRAWING INTERCHANGE 10 CROSS-SECTIONS 6/24/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1971	453	521



CROSS SECTIONS — RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'

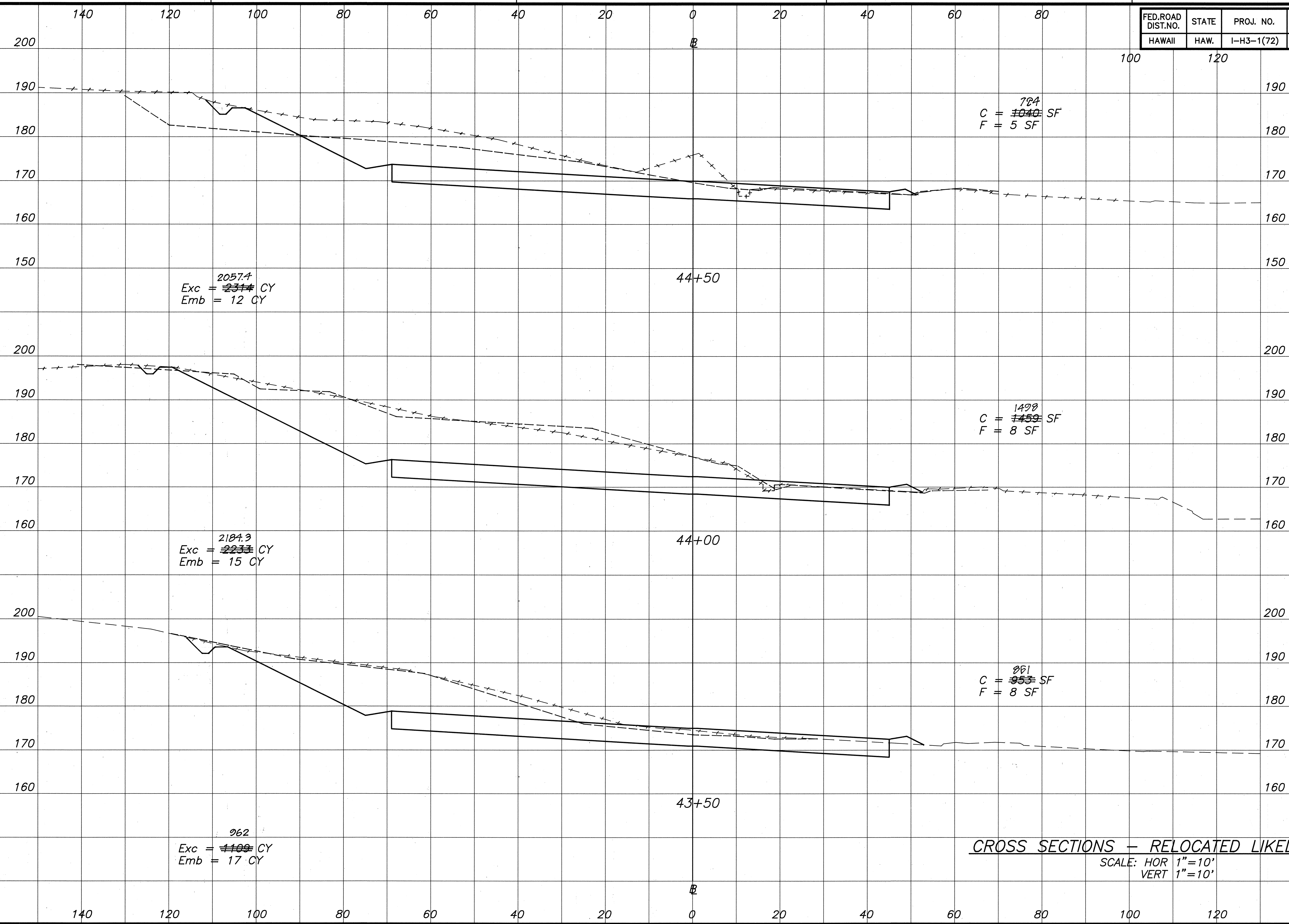
ROBERT L. ITAGAKI
 REGISTERED PROFESSIONAL ENGINEER
 No. 1584-C
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
[Signature]

ORIGINAL PLAN DATE
 SURVEY PLOTTED BY
 DESIGNED BY
 CHECKED BY
 NOTE BOOK
 QUANTITIES BY
 No.

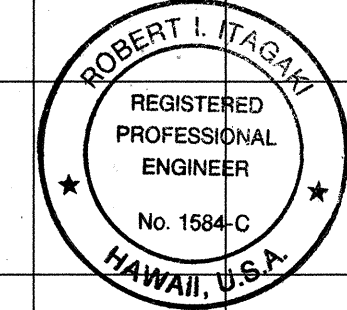
83-4531 FH-LIKELIKE DRIVEWAY INTERCHANGE HI CROSS-SECTIONS 6/24/71

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	454	521



ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

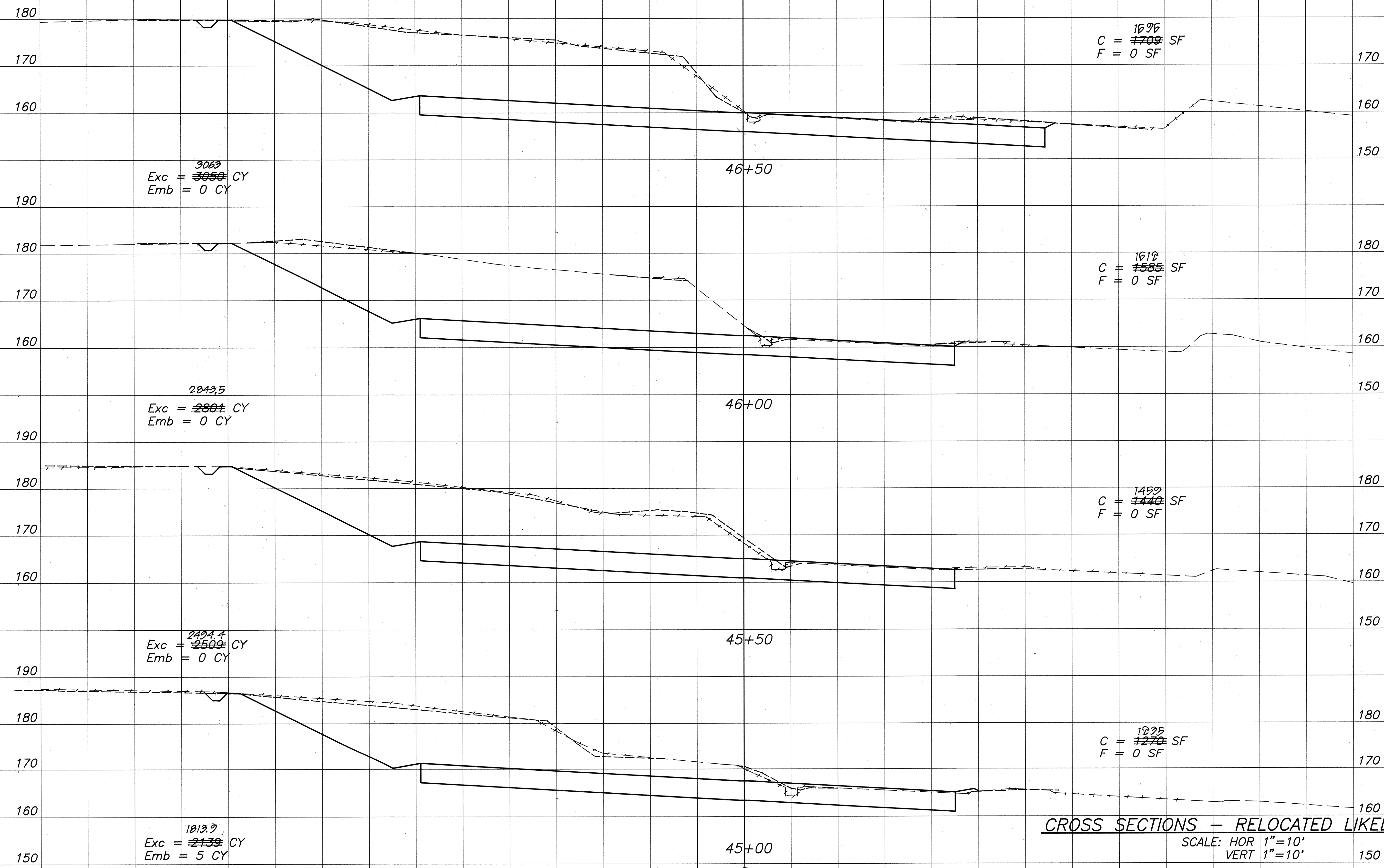
81-4521 EX-11710 CHAMBER W/SHAW IN CROSS-SECTIONS 6/24/91



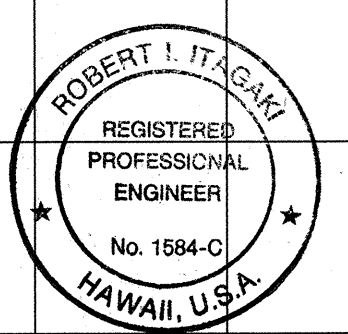
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Robert L. Itagaki

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	455	521



CROSS SECTIONS - RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'

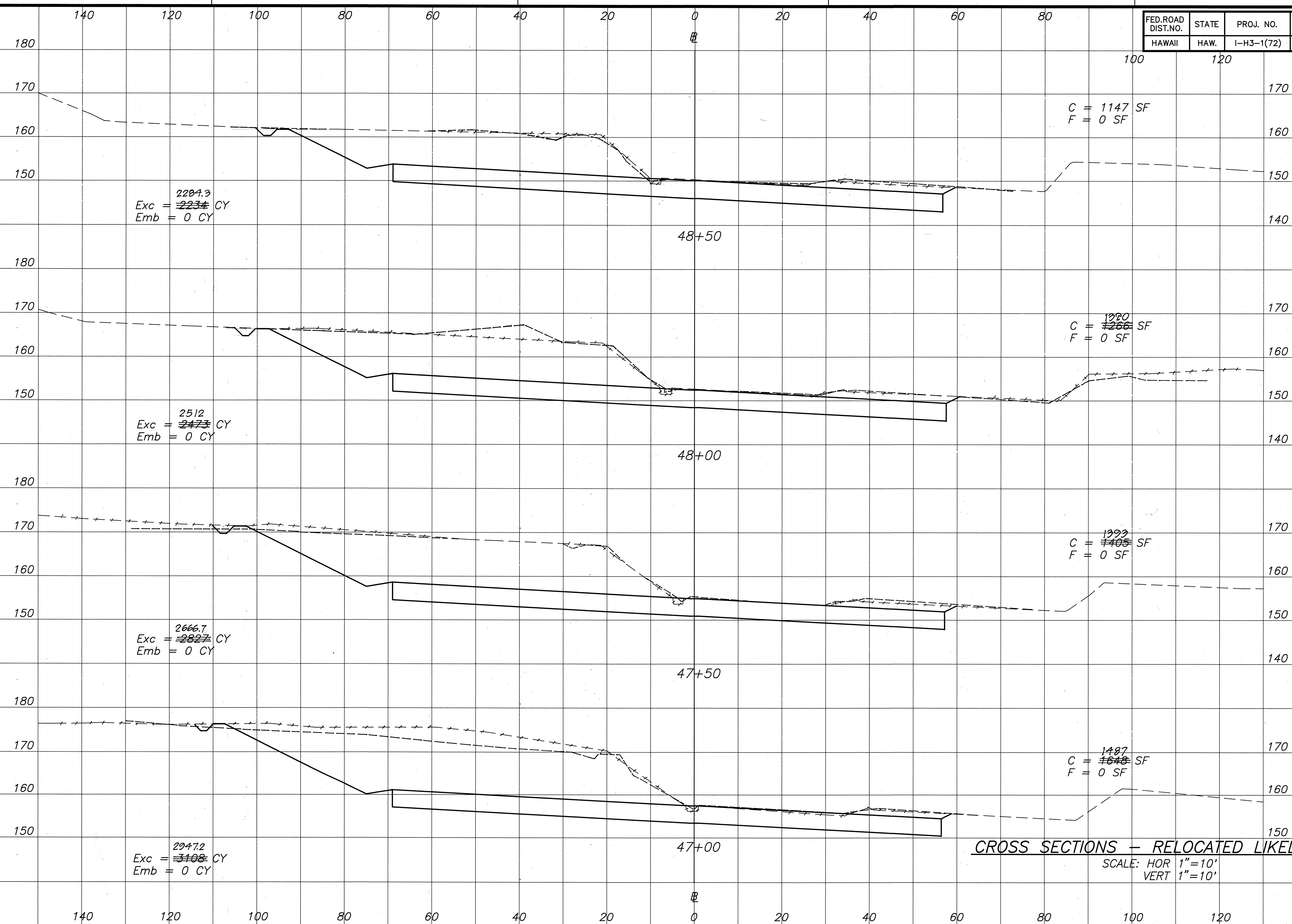


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Robert I. Taggart

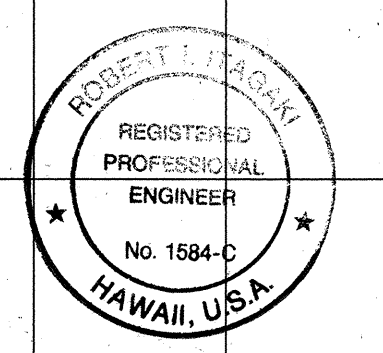
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
No.		

81-46-21 EX-115-1000 SHAWNEE INTERCHANGE 43 CROSS-SECTIONS 6/24/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	456	521



CROSS SECTIONS - RELOCATED LIKELIKE HWY.
 SCALE: HOR 1"=10'
 VERT 1"=10'



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Robert L. Maguy

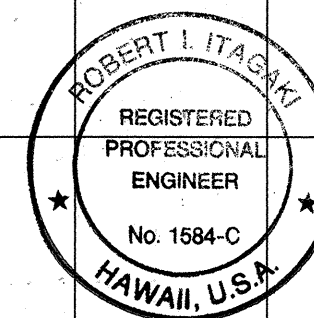
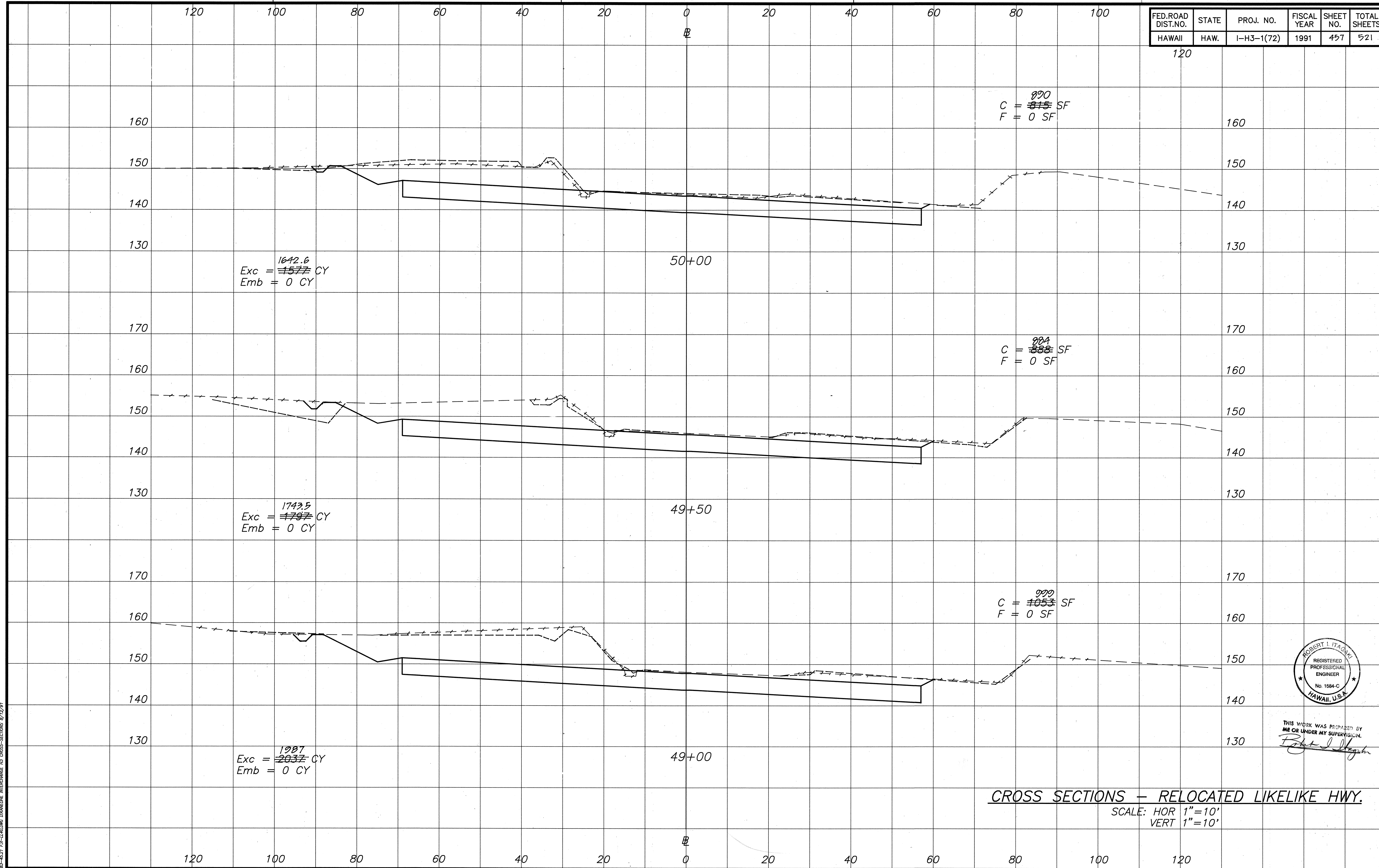
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY	CHECKED BY	
No.		

83-43.21 FOR LIVING CHANNEL WIDENING IN CROSS-SECTIONS 8/14/91

ORIGINAL	SURVEY PLATTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
No.		

81-43.71 PG-14(L)ING DRAINAGE INTERCHANGE 143 CROSS-SECTIONS 8/12/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	457	521



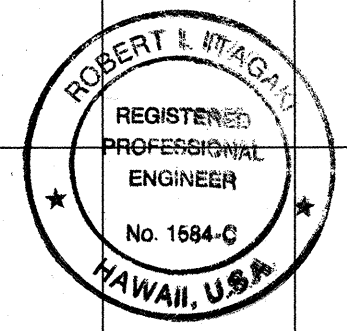
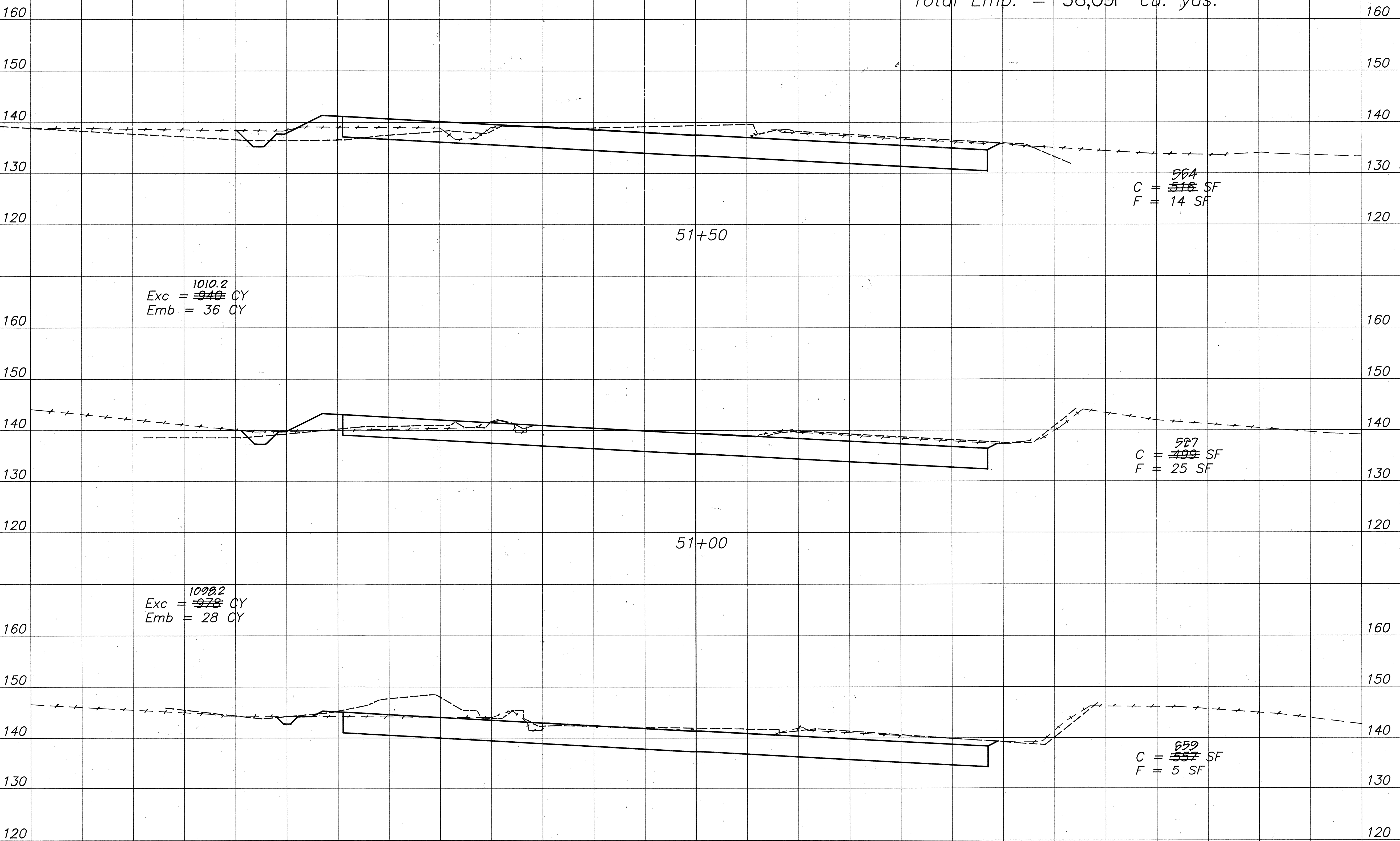
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert L. Itagawa

CROSS SECTIONS - RELOCATED LIKELIKE HWY.
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 458	521

Relocated Likelike Hwy.

Total Exc. = 203,291 cu. yds.
Total Emb. = 58,091 cu. yds.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert L. Stagg

CROSS SECTIONS - RELOCATED LIKELIKE HWY.

SCALE: HOR 1"=10'
VERT 1"=10'

DATE	REVISION
1/18/99	Revised Quantities
3/27/99	Revised Quantities

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

82-4521 EX-141 JMS DRAWING INTERCHANGE 14 CROSS-SECTIONS DRAWN 2/9/91

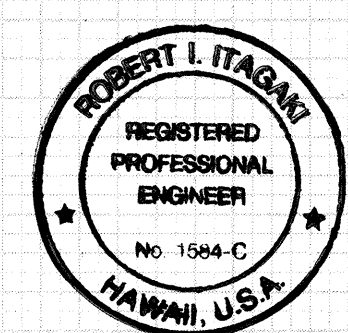
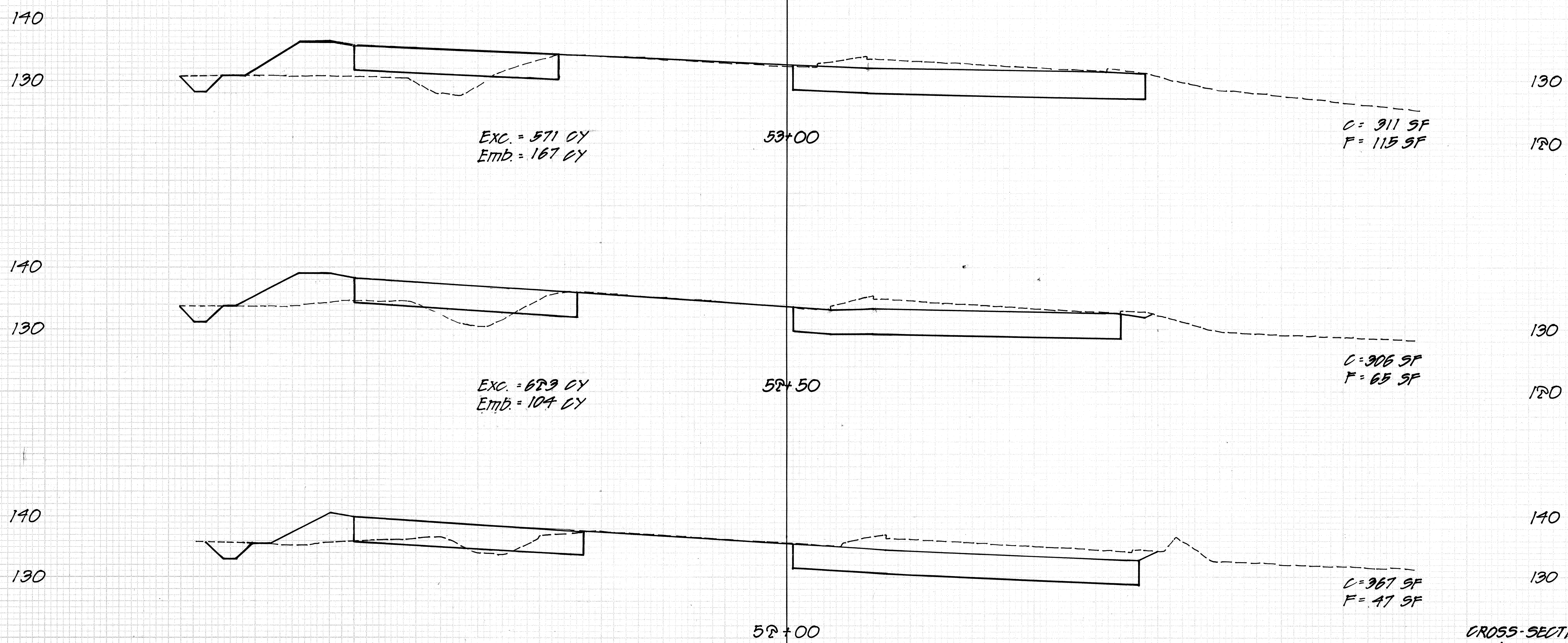
84732

80 60 40 20 0 20 40 60 80

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.459	521

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
DATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
DATE		
AREAS CHECKED		
NO.		



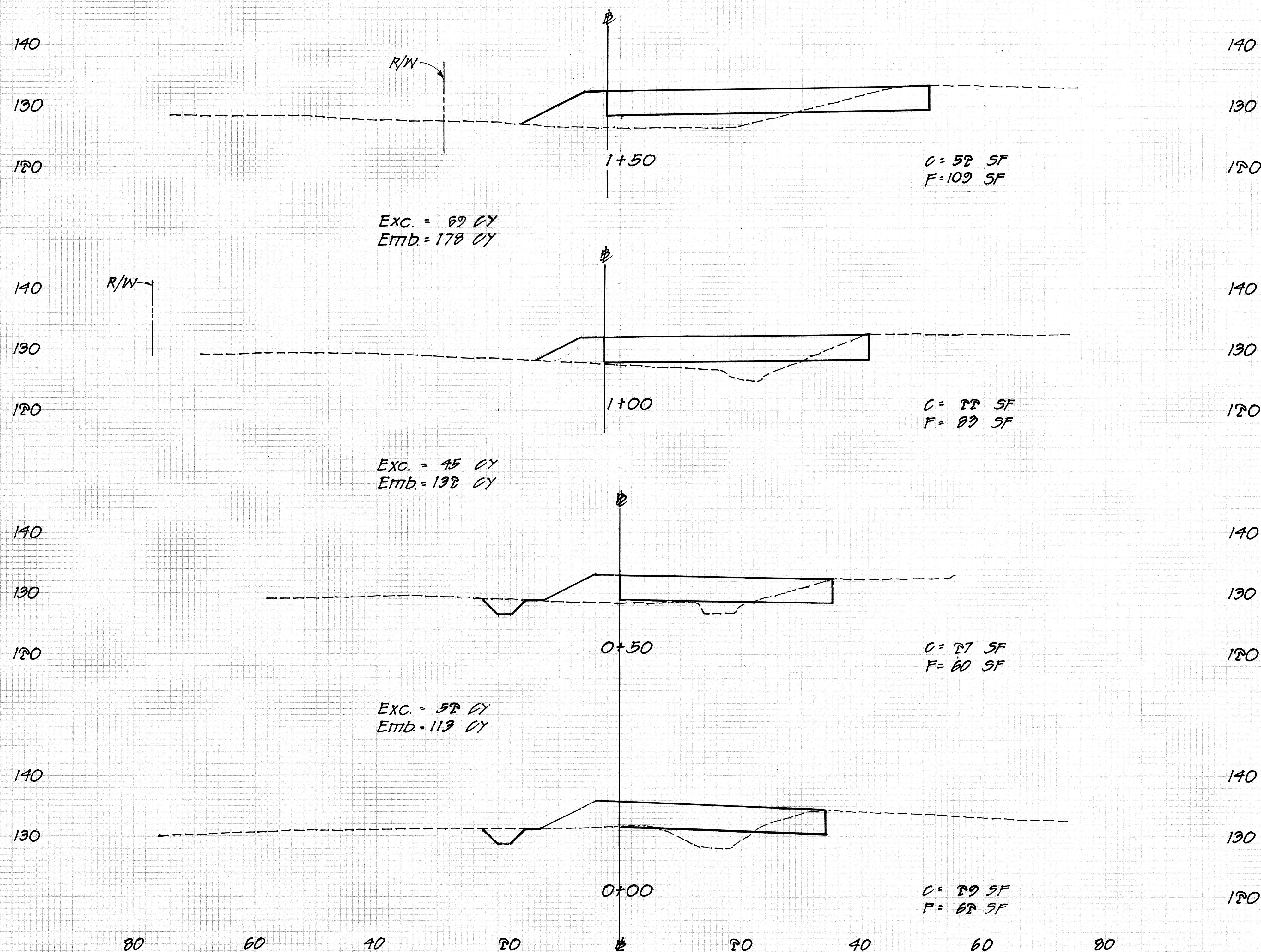
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert L. Itagaki

CROSS-SECTION
LIKELIKE/KAHEKILI INTERSECTION
Scale: Horiz 1"=10'
Vert. 1"=10'

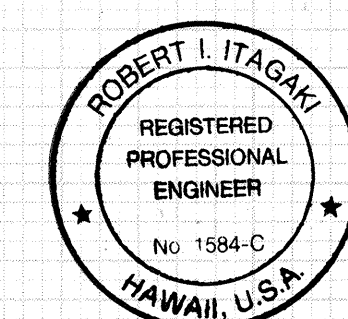
DATE	REVISION
10/7/93	REVISED LINED TRAP DITCH
1/10/99	REVISED CROSS-SECTIONS AND QUANTITIES

C.O.459

TOTAL EXC = 166 CY
TOTAL EMB = 423 CY



3/22/95	REVISED PAYEMENT SECTION
01/17/94	REVISED SHOULDER RADIIUS AT LIKELIKE / KAHAKILI INTERSECTION
DATE	REVISION



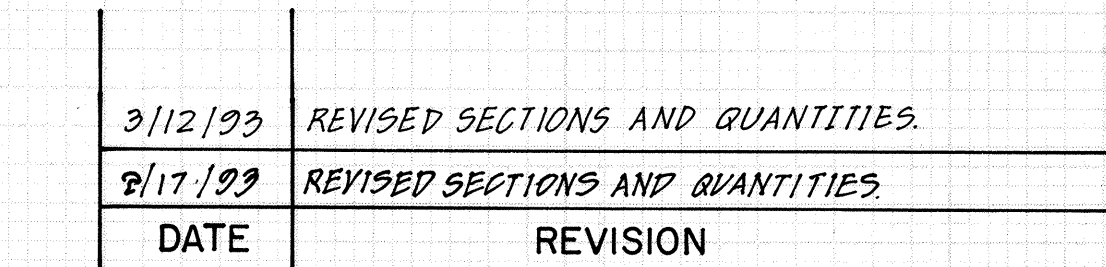
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert J. Hayes

CROSS-SECTION
LIKE/KAHEKILI INTERSECTION
SCALE: Horiz. 1"=10'
Vert. 1"=10'

01/14/94	REVISED SHOULDER RADII AT LIKELIKE/KAHEKILI INTERSECTION.
9/28/99	REVISED CROSS-SECTIONS, RIGHT OF WAY & REMOVED WALL.
11/18/99	REVISED CROSS-SECTIONS AND QUANTITIES.
DATE	REVISION

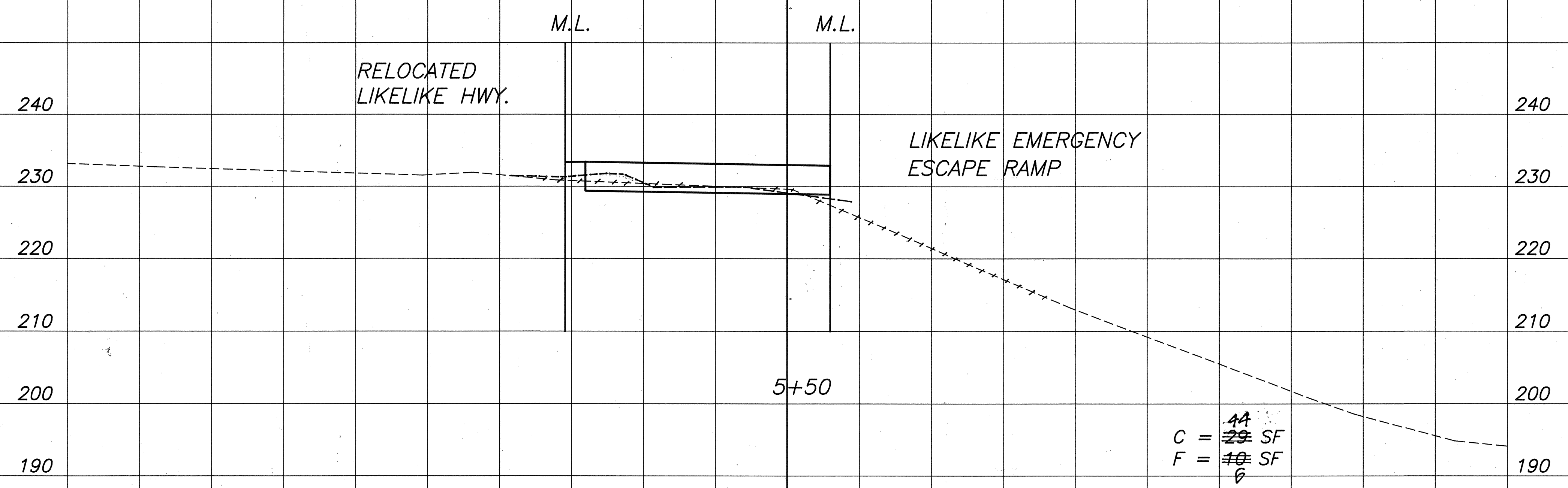
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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

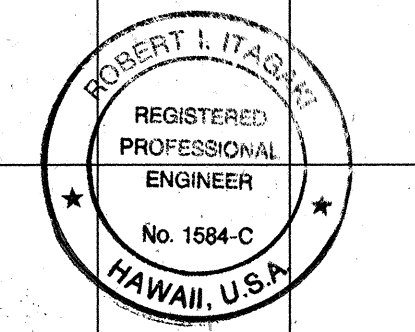
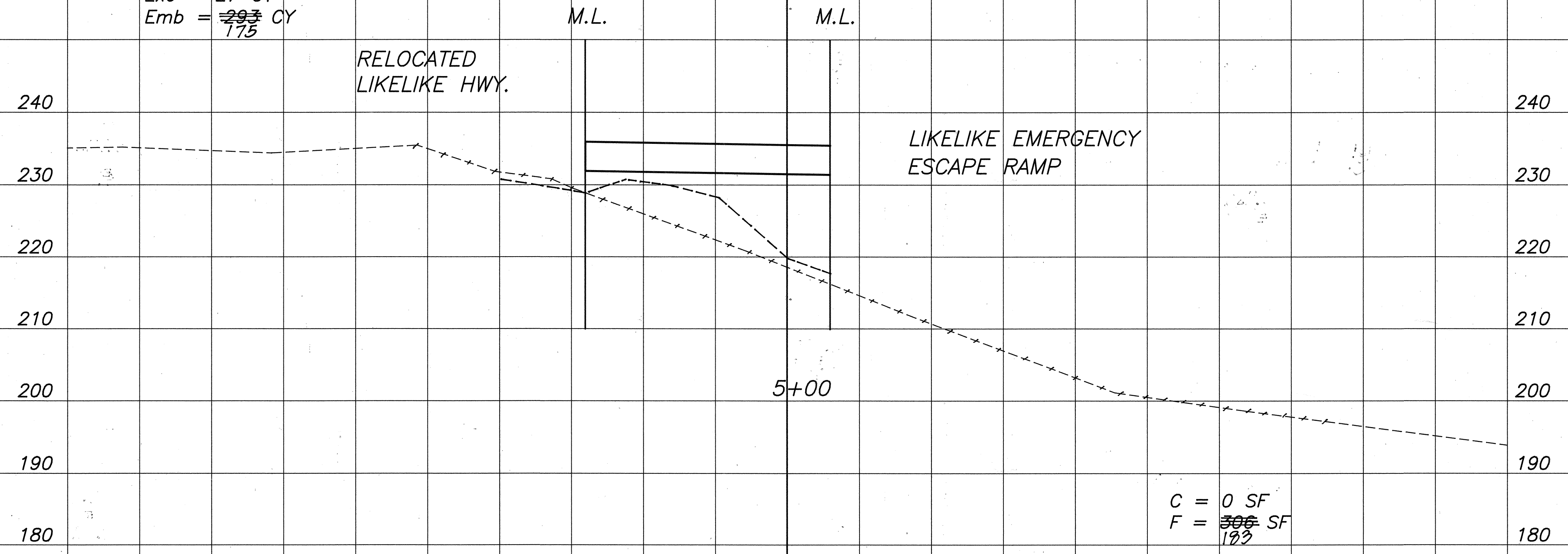


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert I. Hayek

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	462	521



Exc = ~~27~~ 40.7 CY
Emb = ~~293~~ 175 CY



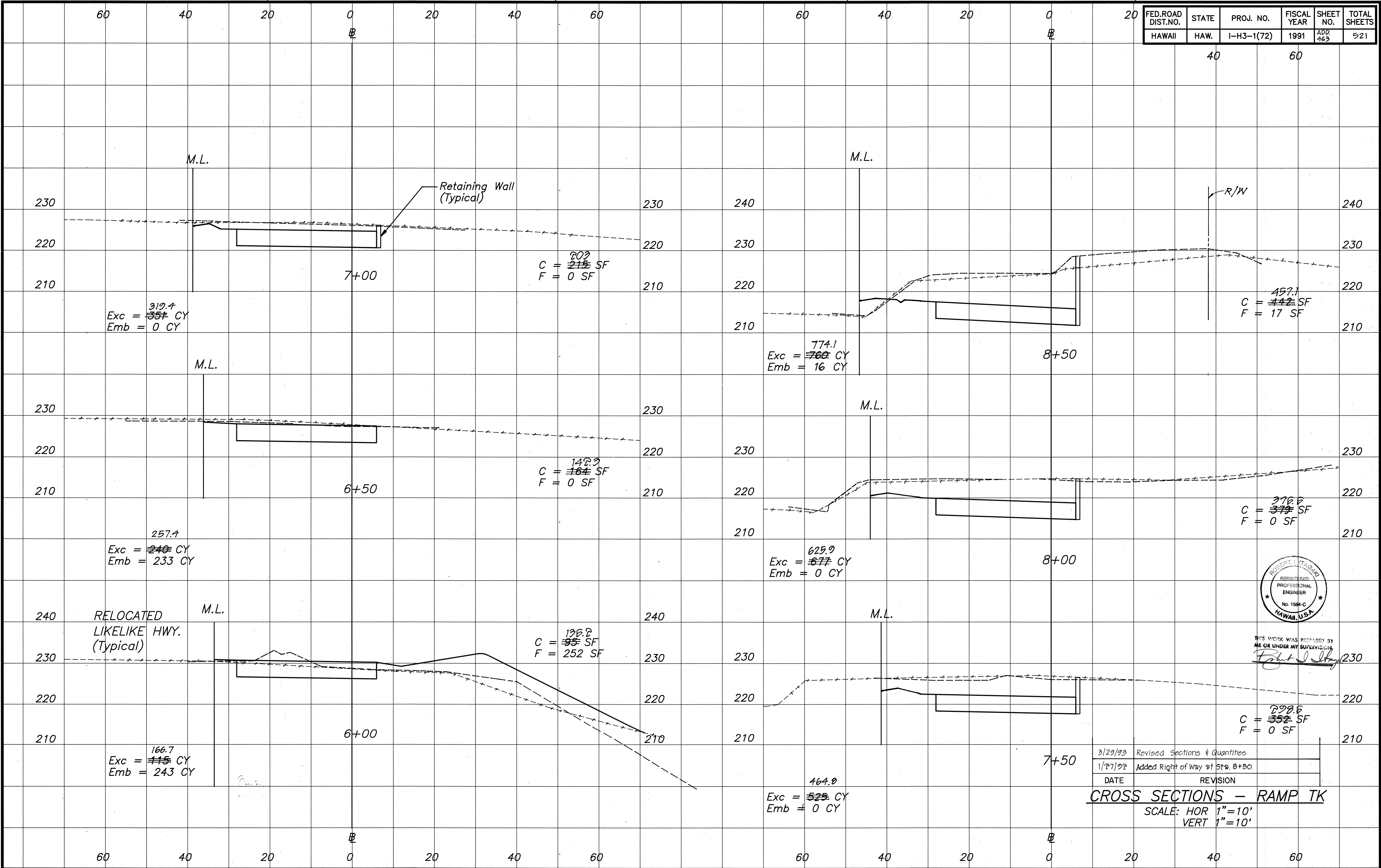
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Robert L. Hagan

CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

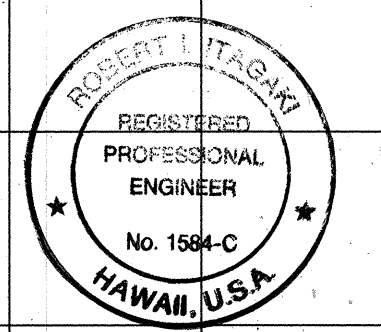
83-4621 EX-10-LINE DRAWING INTERCHANGE HI CROSS-SECTIONS PLOT-1-10 12/10/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD 463	521



ORIGINAL PLAN	DATE
NOTED BY	DESIGNED BY
QUANTITIES BY	CHECKED BY
No.	

83-4321 EX-102-DWG DRAWING INTERCHANGE IN CROSS-SECTIONS PLOT-1-10 12/10/91

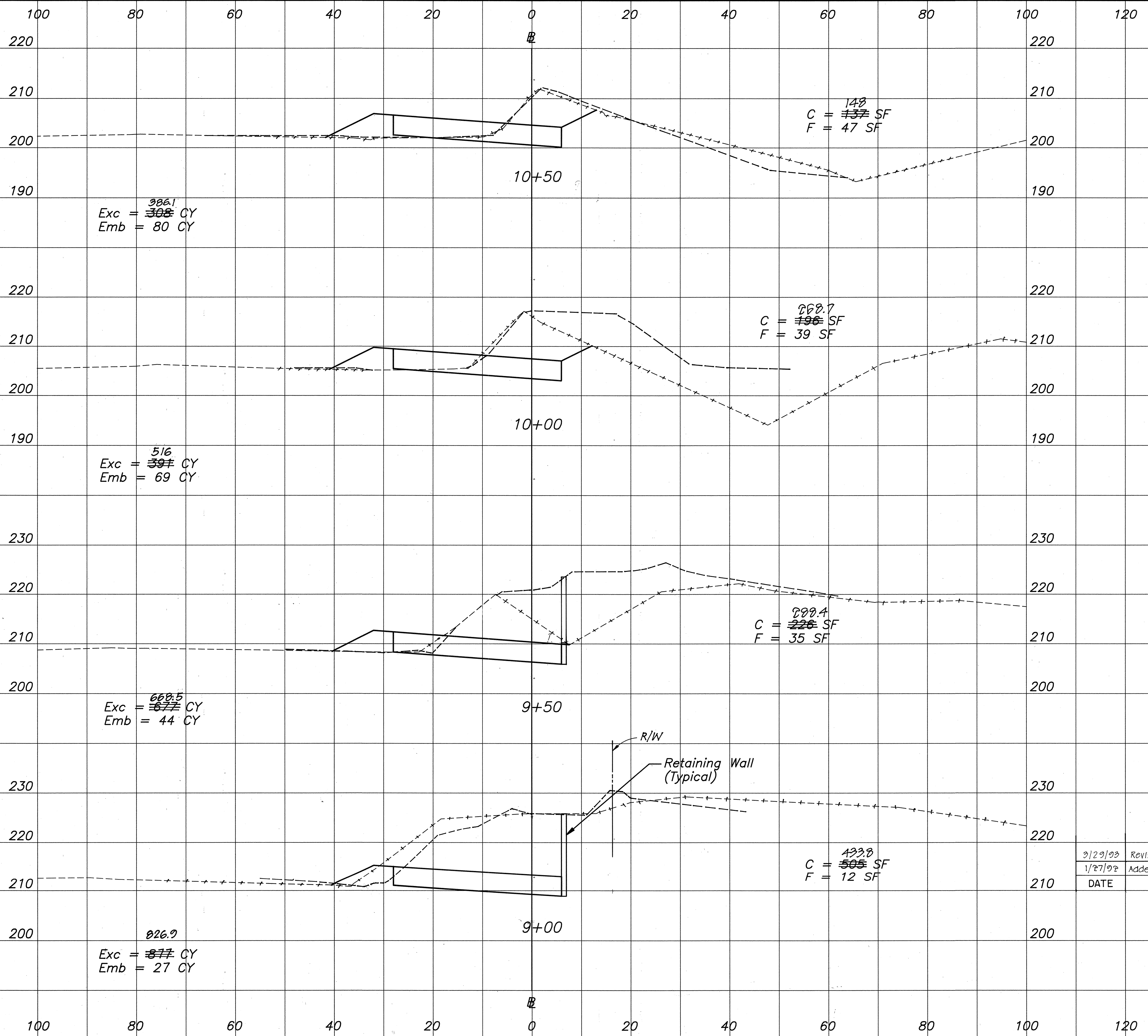


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert L. Tatum

3/29/93	Revised Sections & Quantities
1/27/98	Added Right of Way at Sta. 8+50.
DATE	REVISION

CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

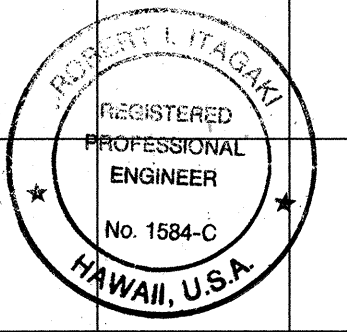
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 464	521



SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

83-4321 EX-10000 DRAINAGE INTERCHANGE AT CROSS-SECTIONS PL01-10 12/10/91

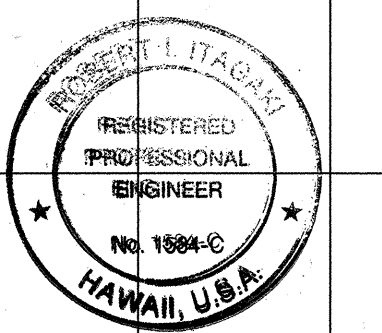
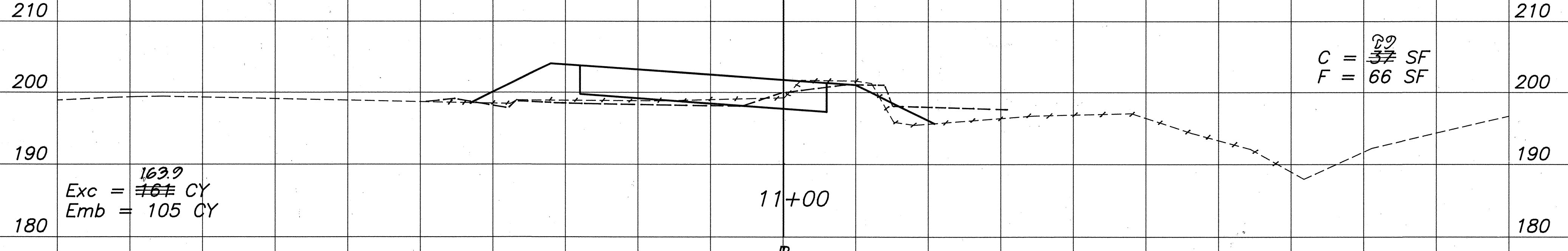
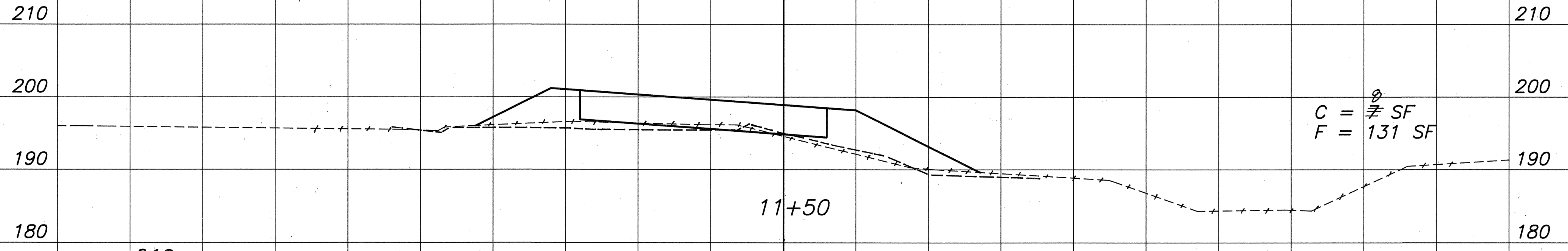
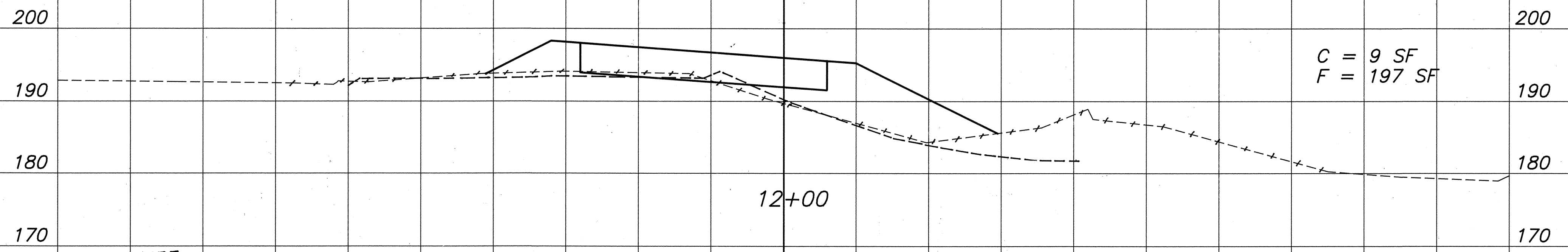
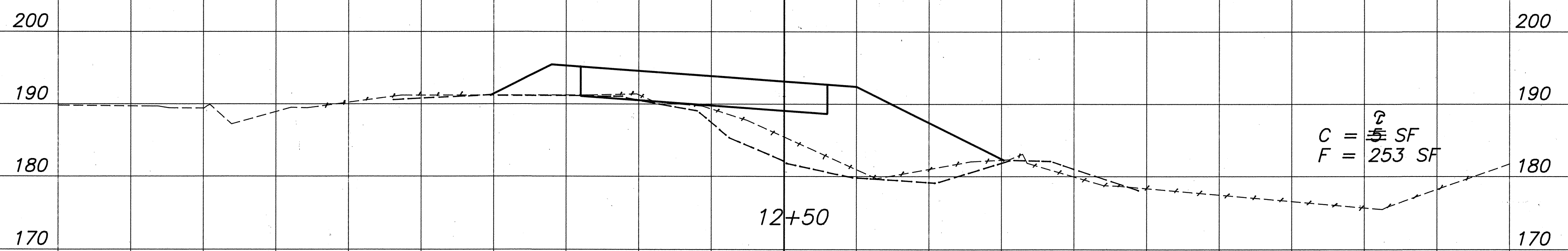
3/29/93	Revised Quantities
1/27/92	Added Right of Way at Sta. 9+00
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert L. Taggart

CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	465	521



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Robert L. Tagami

CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN
NOTE BOOK
No. _____

SURVEY PLOTTED BY _____ DATE _____
DRAWN BY _____
DESIGNED BY _____
QUANTITIES BY _____
CHECKED BY _____

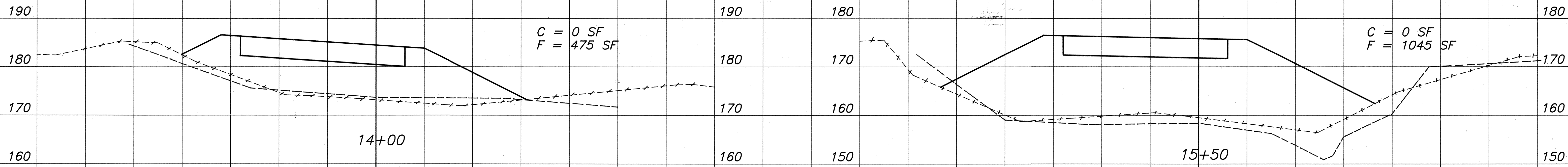
81-45-21 EX-TAKING DRAINAGE INTERCHANGE 14 CROSS-SECTIONS PLOT-10 6/21/91

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
No.		

83-43.71 EX-104.00 CHANGING INTERCHANGE ROUTE 41 CROSS SECTIONS Date 6/21/91

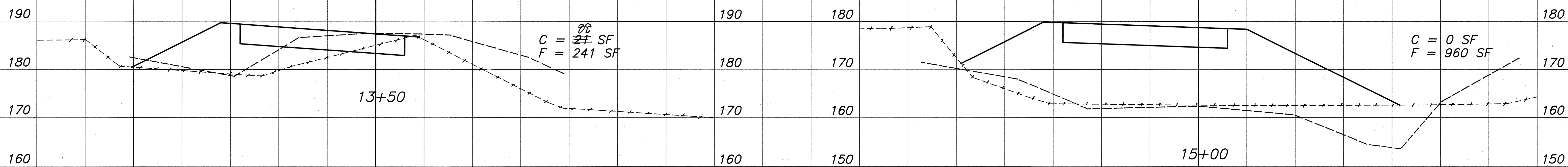
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (72)	1991	466	521

40 60



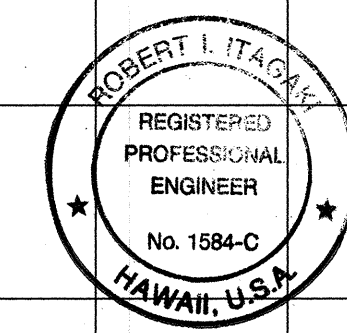
Exc = ~~19~~^{75.9} CY
Emb = 663 CY

Exc = 0 CY
Emb = 1856 CY

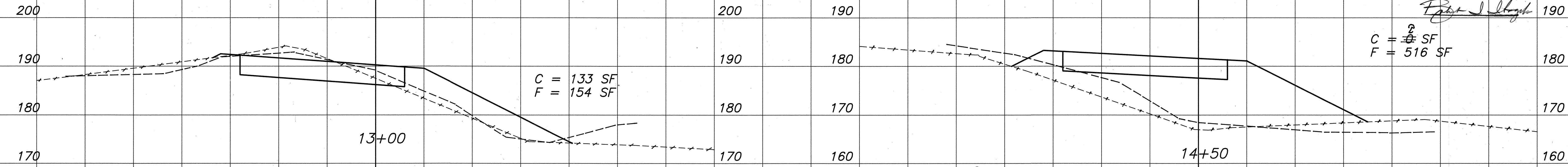


Exc = ~~143~~¹⁹⁹¹ CY
Emb = 366 CY

Exc = ~~6~~^{1.9} CY
Emb = 1369 C7



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Robert L. Itagaki



Exc = 124 CY
Emb = 382 CY

Exc = ~~6~~^{1.9} CY
Emb = 918 CY

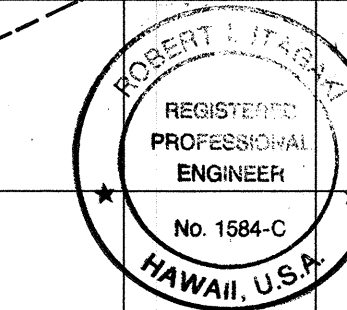
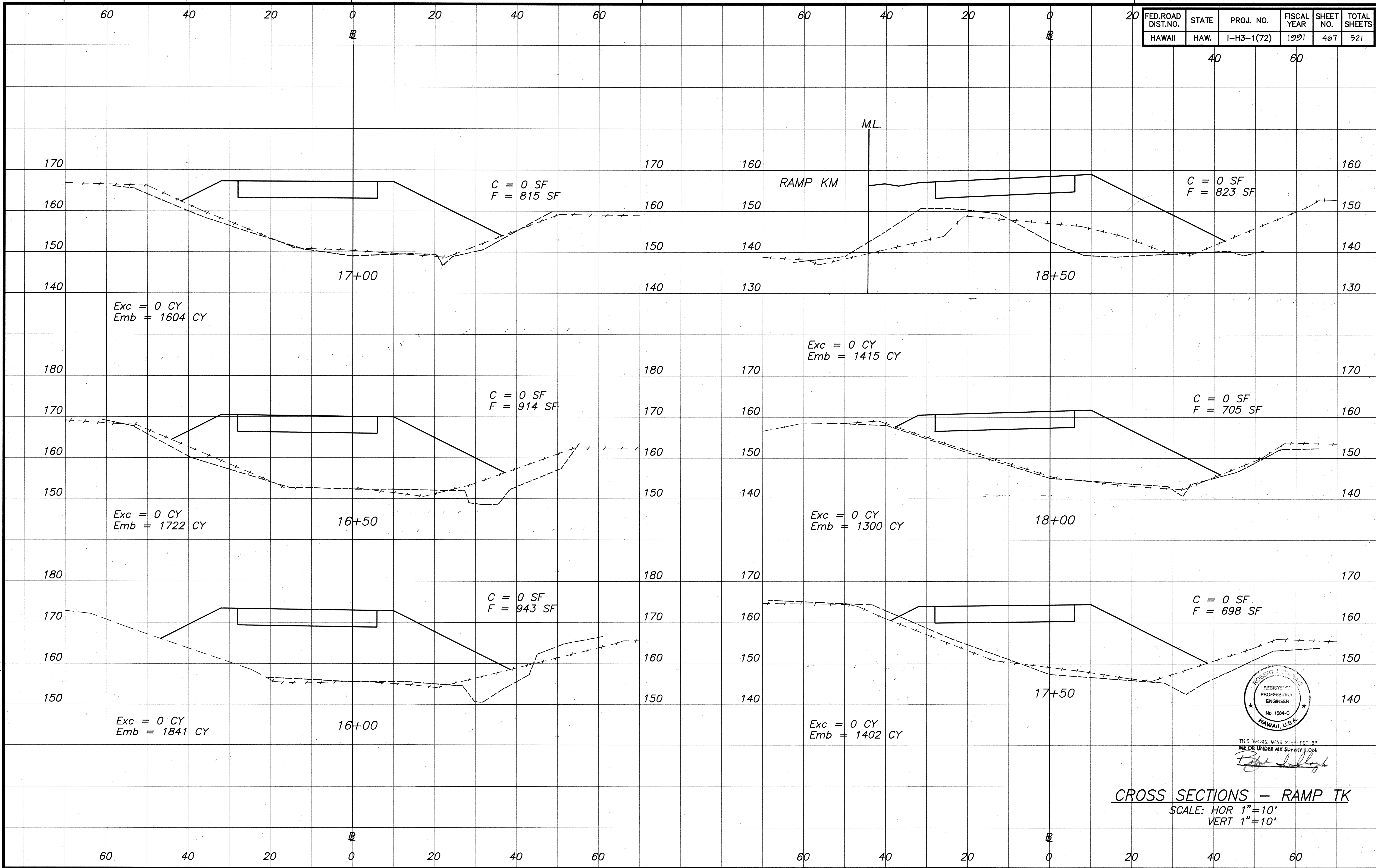
CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

61-43-21 EX-76-016 DAWENGE INTERSTATE ROUTE 13 CROSS SECTIONS DATE 6/22/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	467	521

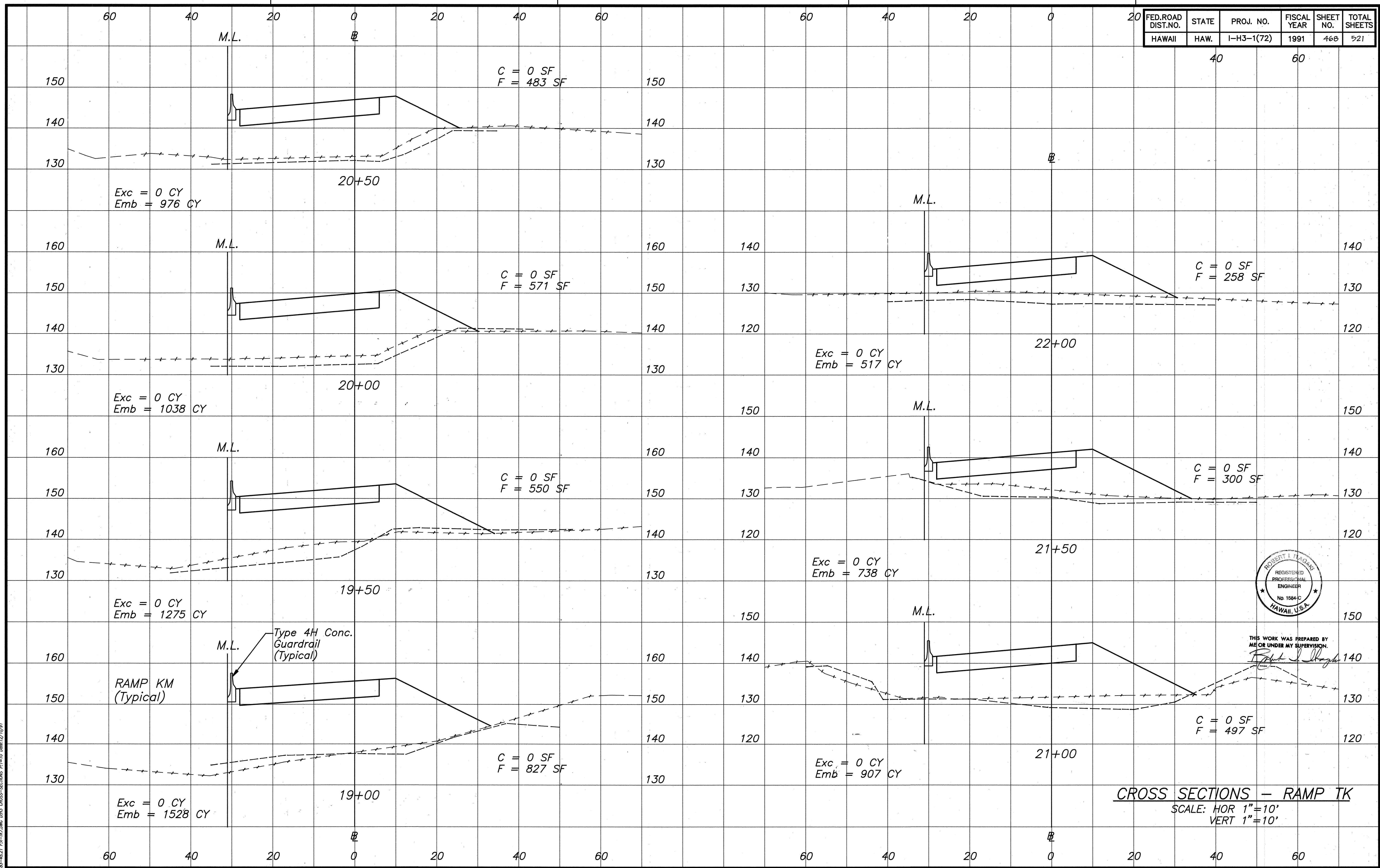
40 60



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Robert J. Taylor

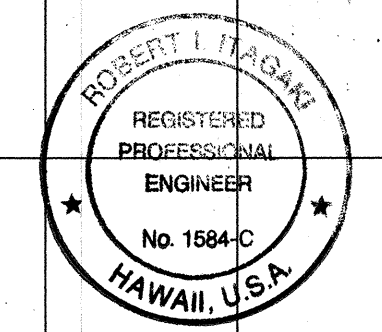
CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	468	521



SURVEY PLOTTED BY _____ DATE _____
 DESIGNED BY _____
 CHECKED BY _____
 NOTE BOOK _____
 No. _____

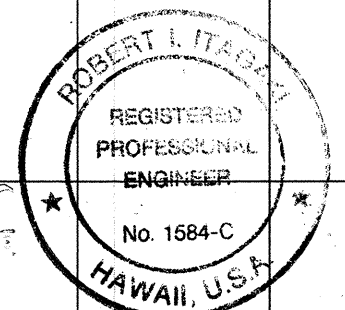
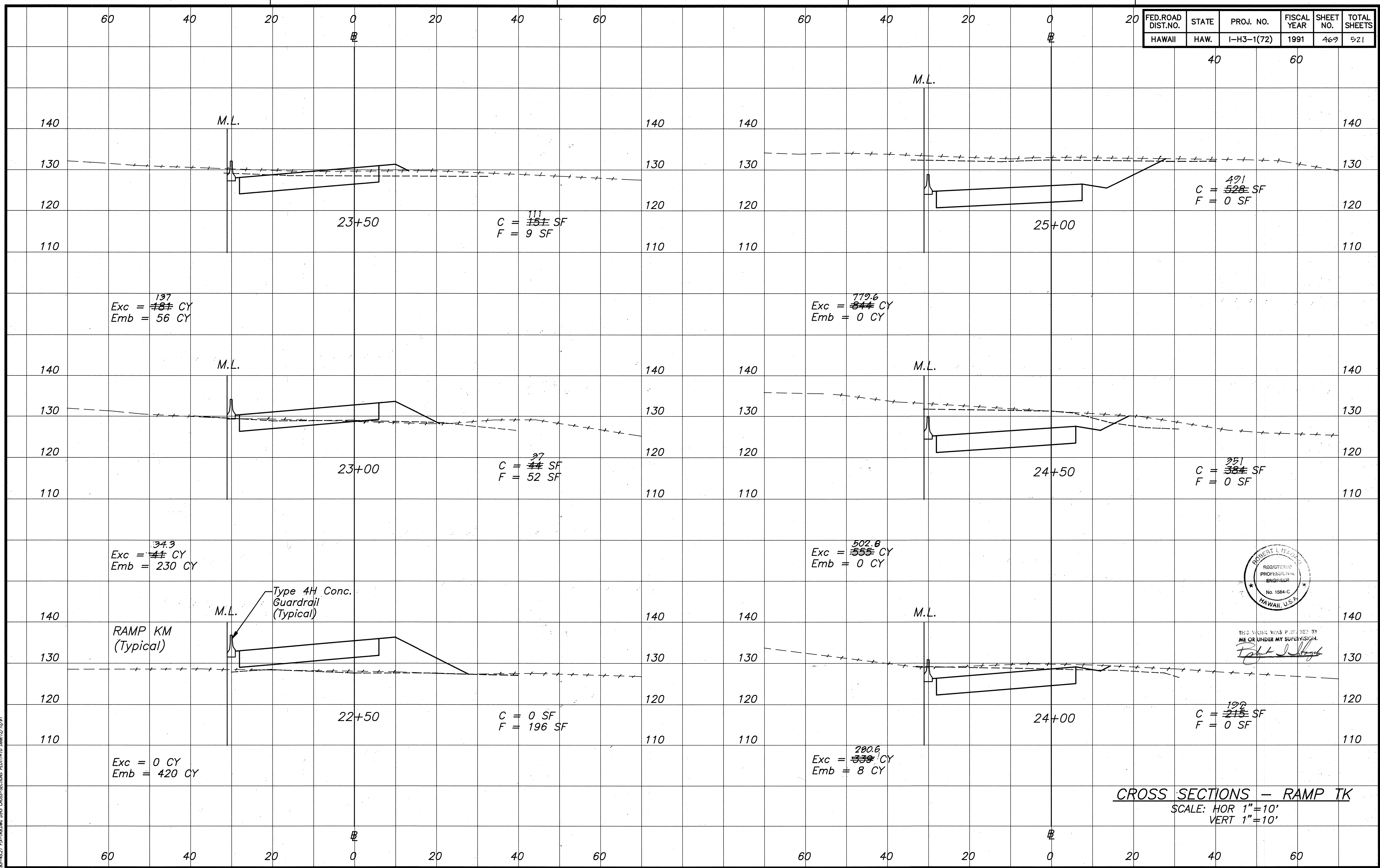
81-48.21 EX-702/062 D43 CROSS-SECTIONS P1-10 Date: 12/10/91



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Robert I. Taggart

CROSS SECTIONS - RAMP TK
 SCALE: HOR 1"=10'
 VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	469	521



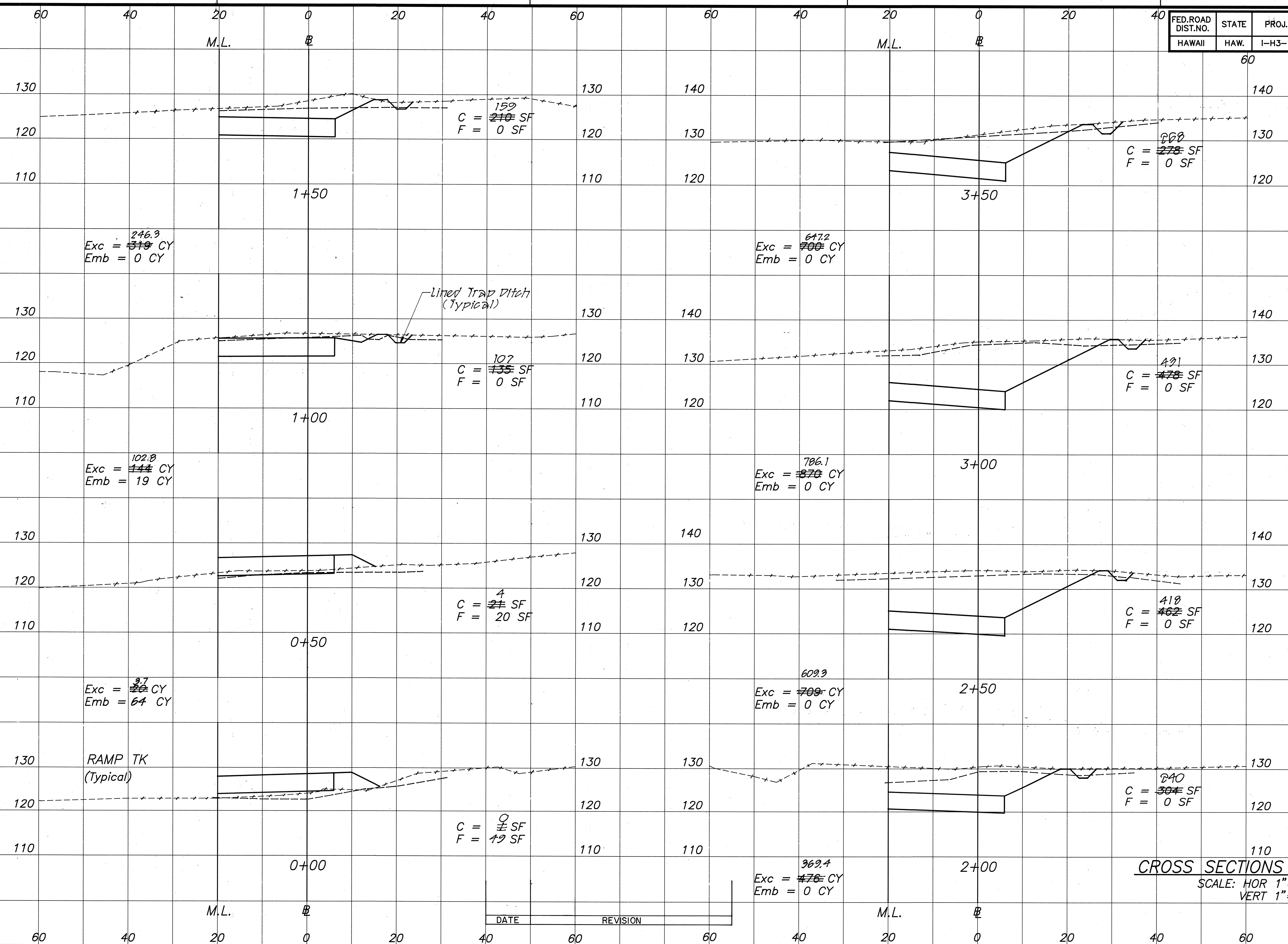
THIS WORK WAS PREPARED BY
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Robert L. Itasca

CROSS SECTIONS - RAMP TK
SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN
DESIGNED BY
CHECKED BY
DATE
NO. 1

81-4621 EX-106-106 D&S CROSS-SECTIONS PLAT-10 Date: 12/10/91

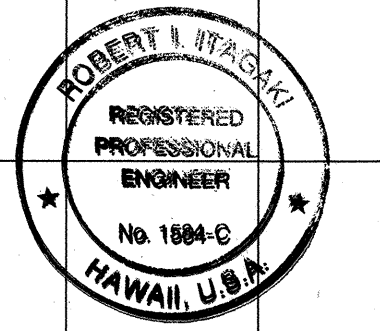
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	471	521



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

81-45.2 (24-44) HAWAIIAN INTERCHANGE AT CROSS-SECTIONS 2/26/91

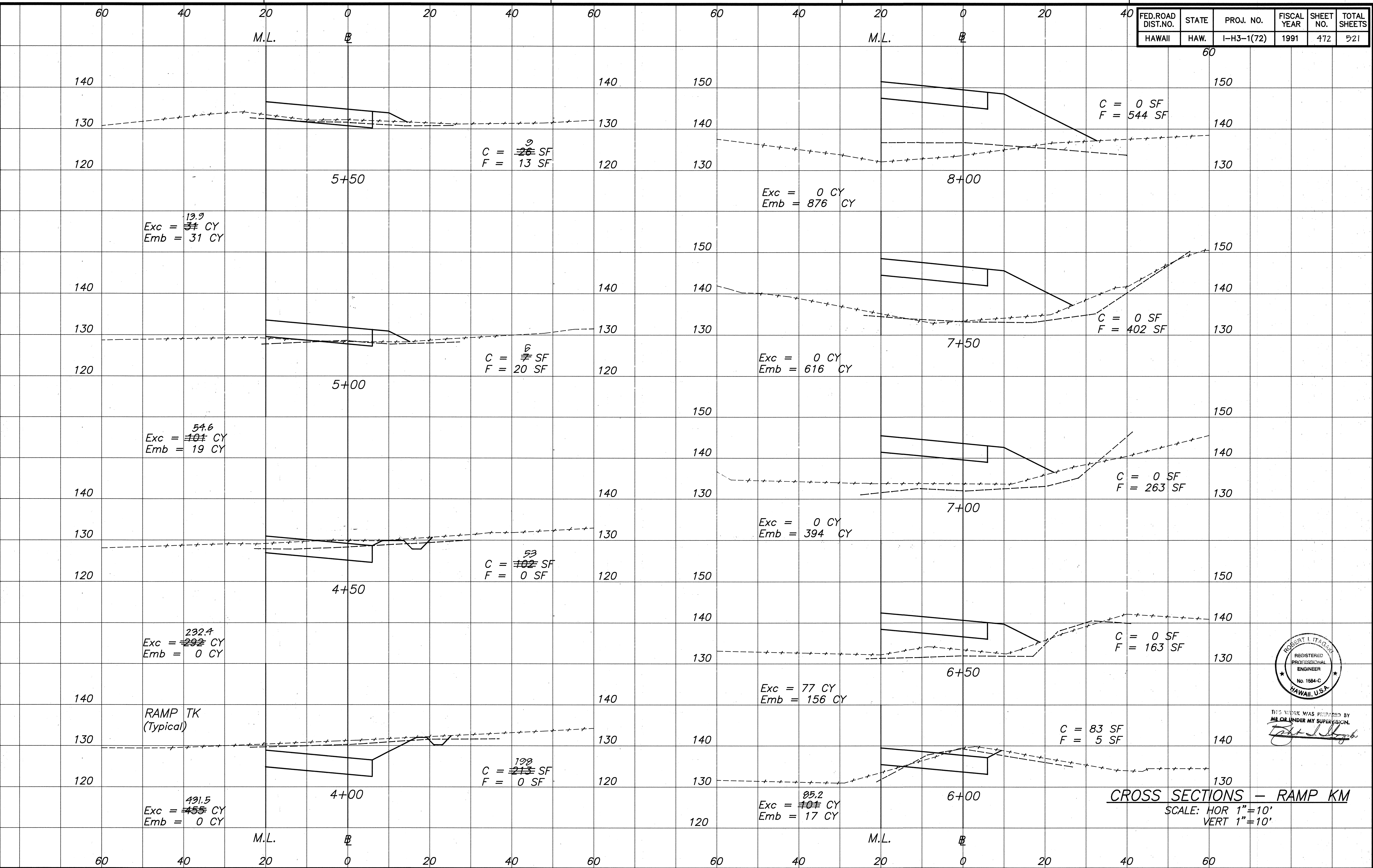
DATE	REVISION



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Robert I. Itagaki

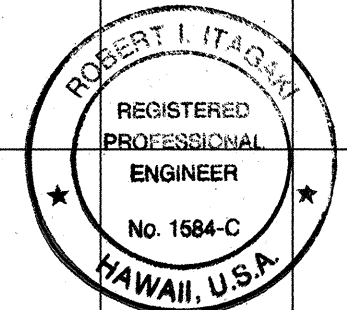
CROSS SECTIONS - RAMP KM
 SCALE: HOR 1"=10'
 VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	472	521



ORIGINAL PLAN
DATE
DRAWN BY
DESIGNED BY
NOTED BY
CHECKED BY
No.

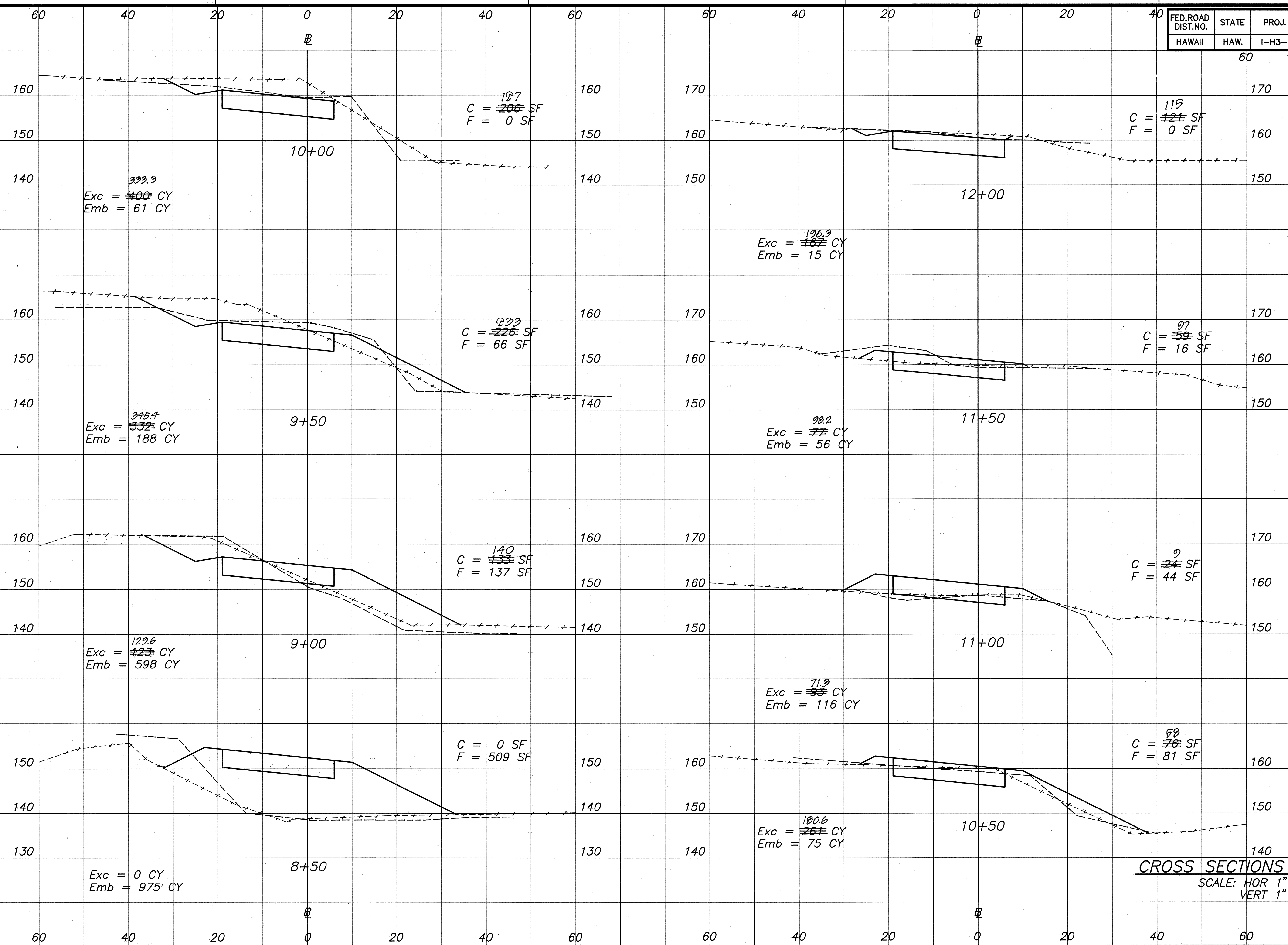
81-462 RAMP DRIVEWAY INTERCHANGE AT CROSS-SECTIONS 7/26/91



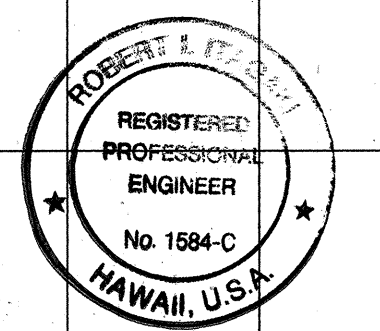
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert I. Itagaki

CROSS SECTIONS - RAMP KM
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	473	521



CROSS SECTIONS - RAMP KM
 SCALE: HOR 1"=10'
 VERT 1"=10'



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[Signature]

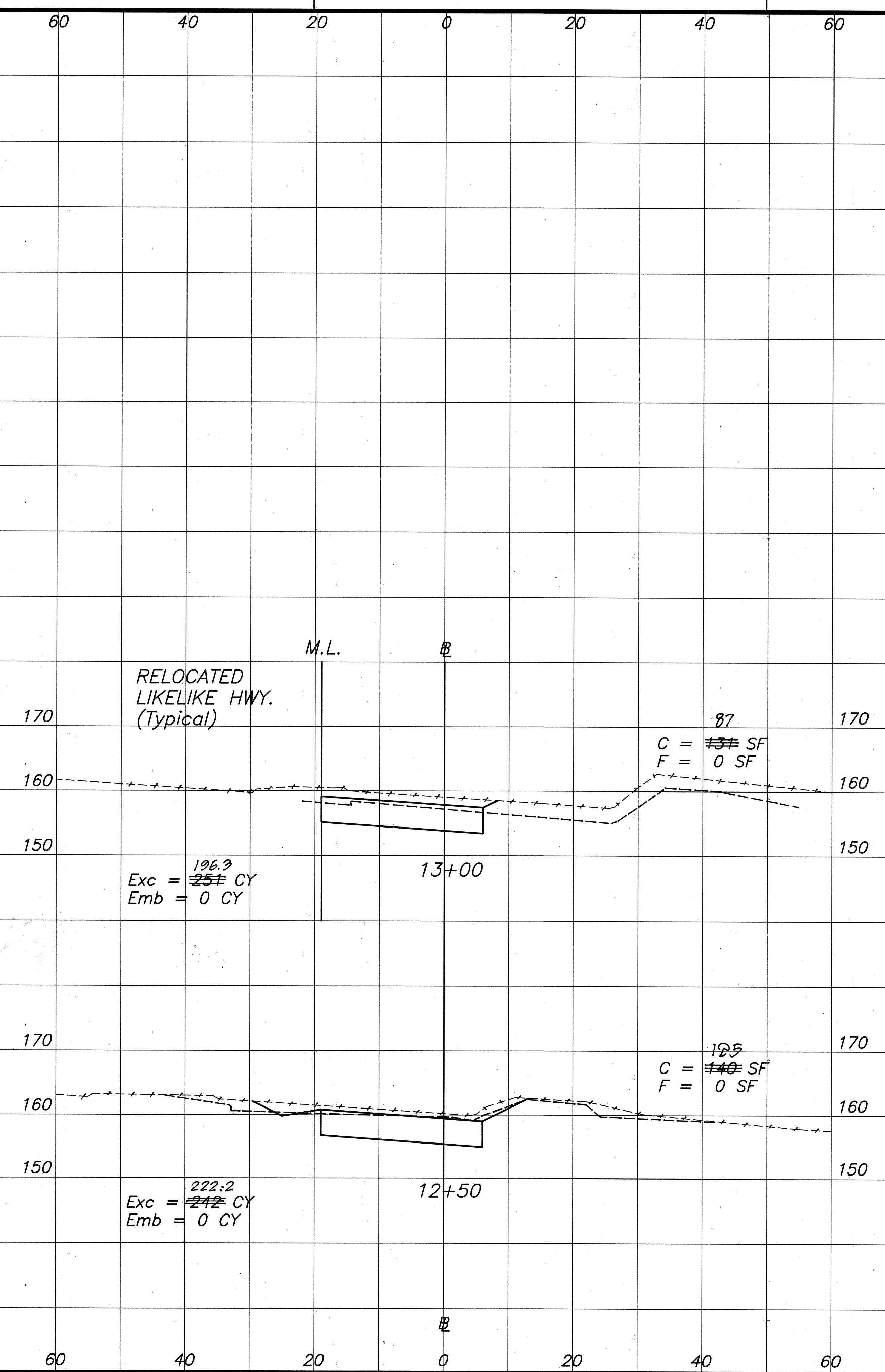
ORIGINAL PLAN
 SURVEY PLOTTED BY
 DATE
 DRAWN BY
 DESIGNED BY
 NOTE BOOK
 QUANTITIES BY
 CHECKED BY
 No.

81-452 EX-HAWAII DRIVEWAY INTERCHANGE 43 CROSS-SECTIONS 2/28/91

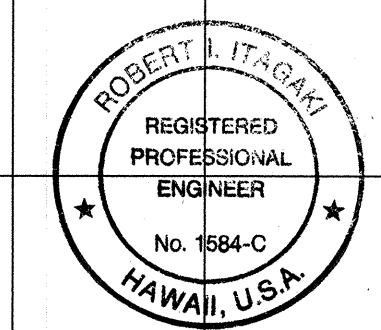
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	474	521

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	CHECKED BY	

81-46.2 EX-HAWAII DIVISION INTERCHANGE H3 CROSS-SECTIONS 7/29/91



Ramp KM:
 Total Exc. = 6,286 cu. yds.
 Total Emb = 4,231 cu. yds.

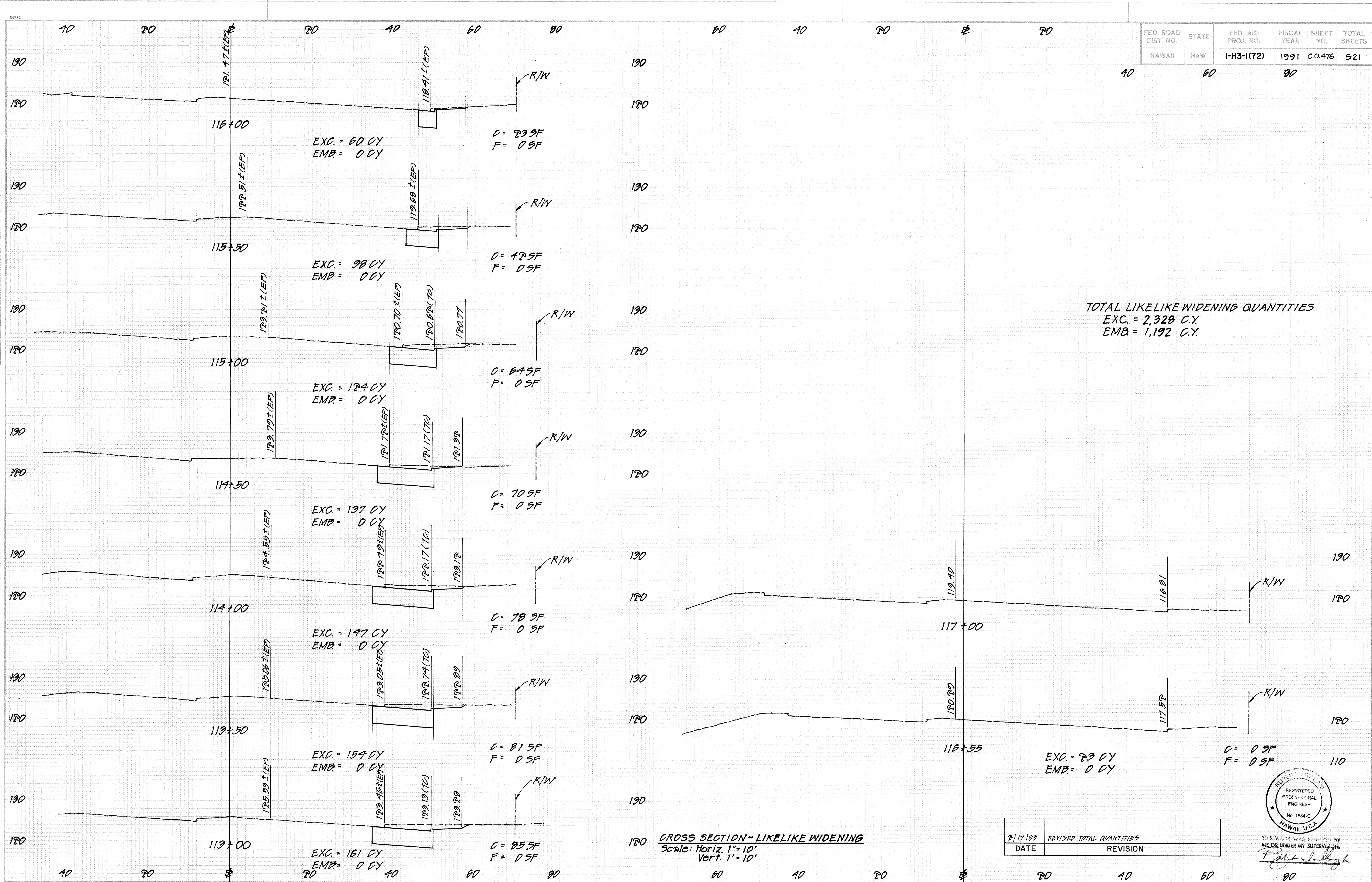


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Robert L. Itagaki

CROSS SECTIONS - RAMP KM
 SCALE: HOR 1"=10'
 VERT 1"=10'

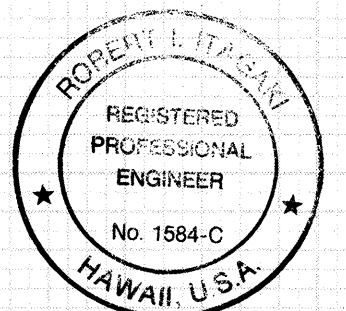
FINAL	SURVEYED	DATE
SURVEY	BY	
PLOTTED		
NOTE BOOK		
NO.		

ORIGINAL	SURVEYED	DATE
SURVEY	BY	
PLOTTED		
NOTE BOOK		
NO.		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.476	521

DATE	REVISION
2/17/99	REVISED TOTAL QUANTITIES

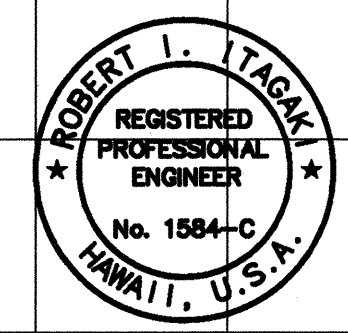
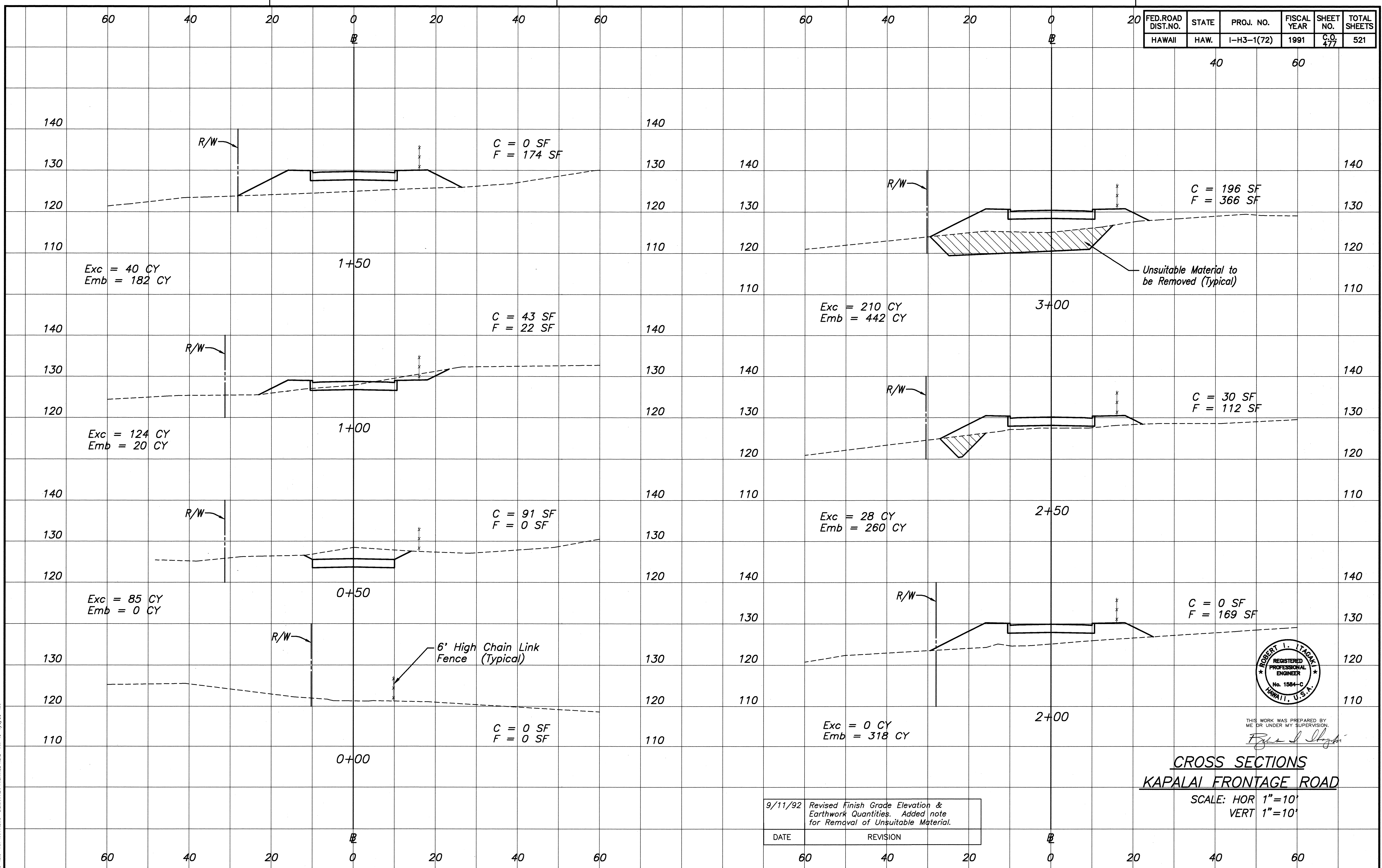


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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 477	521

SURVEY ROUTED BY: _____
 DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 No. _____

83-456 PIA-KAPALONG DUCKPOND PROPOSED ROAD P1=10 7/9/96 WA



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**CROSS SECTIONS
KAPALAI FRONTAGE ROAD**

SCALE: HOR 1"=10'
VERT 1"=10'

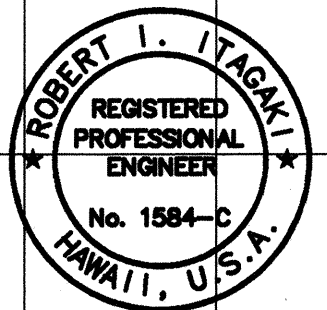
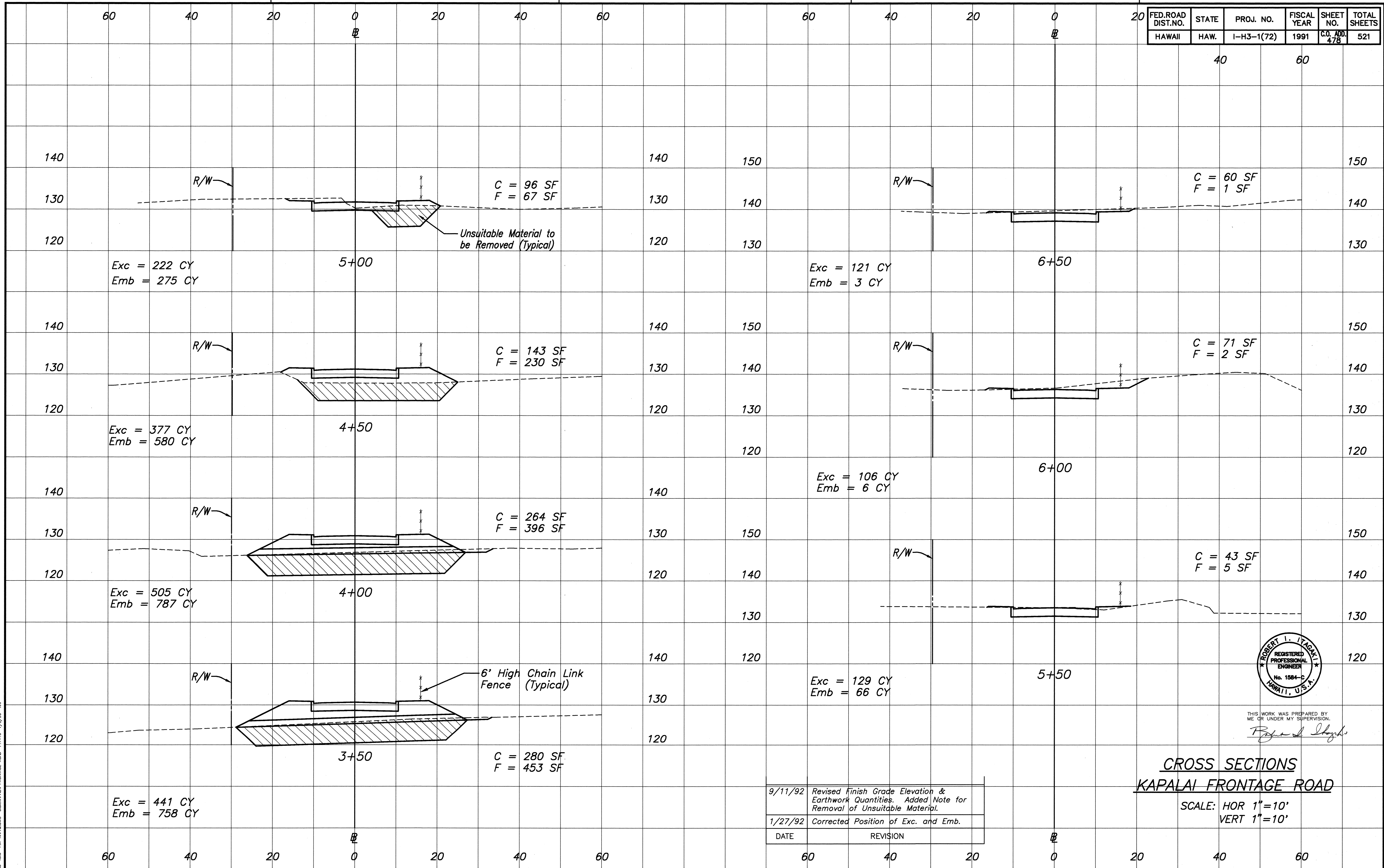
9/11/92	Revised Finish Grade Elevation & Earthwork Quantities. Added note for Removal of Unsuitable Material.
DATE	REVISION
60	40
20	0

C.O. 477

ORIGINAL	SURVEY	DATE
PLAN	PLotted	BY
BOOK	DRAWN	BY
No.	DESIGNED	BY
	CHECKED	BY

83-45.6 EX-4492.DWG. Descriptive Frontage Road P1-10 7/9/96 KA

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 478	521



**CROSS SECTIONS
KAPALAI FRONTAGE ROAD**

SCALE: HOR 1"=10'
VERT 1"=10'

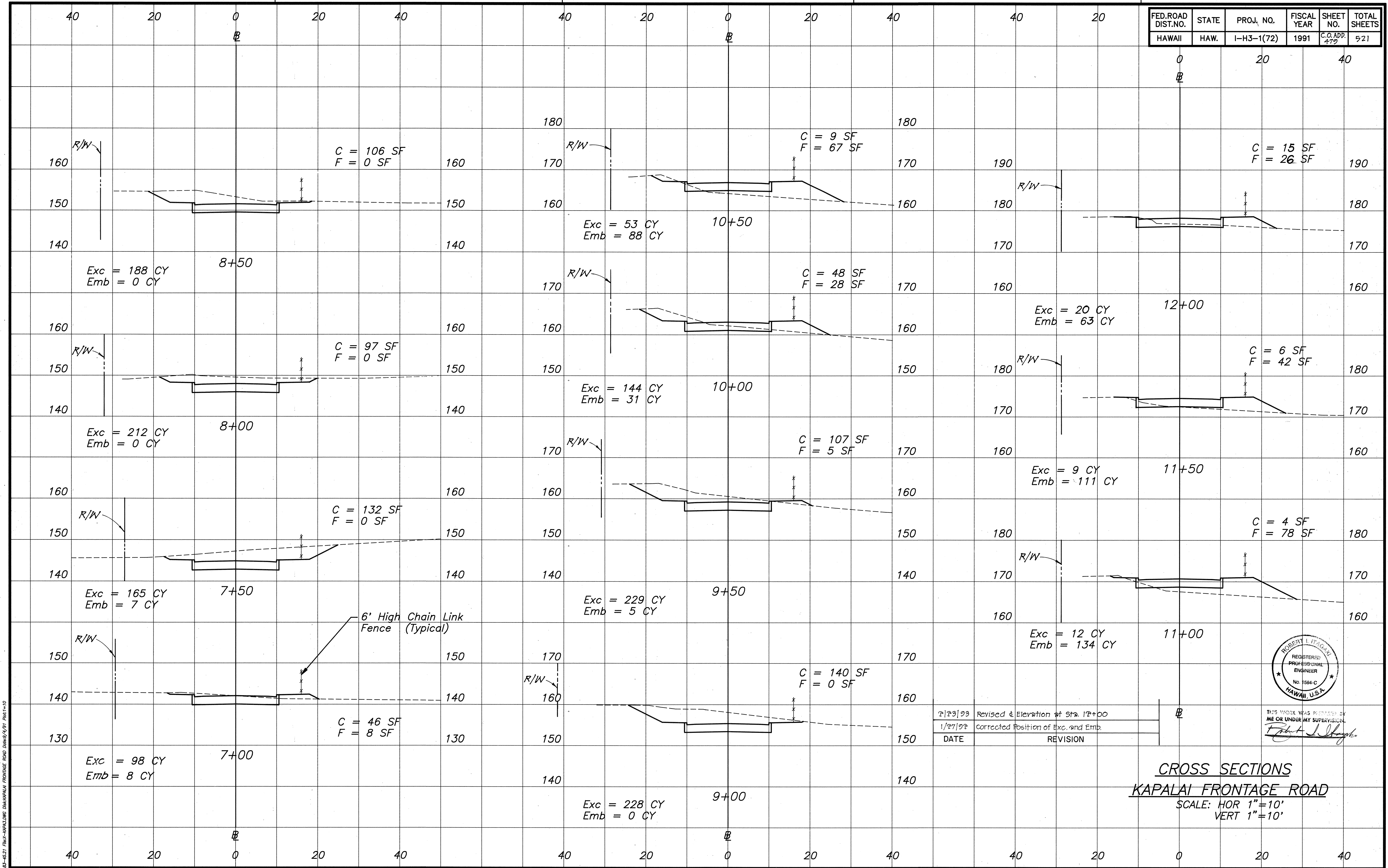
C.O. ADD. 478

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 479	521

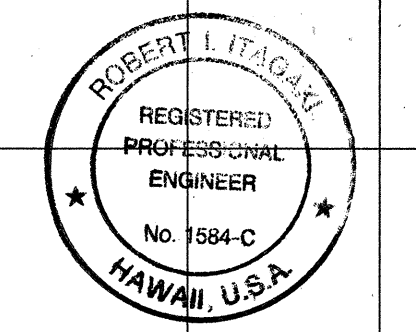
0 20 40

B

ORIGINAL PLAN	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



CROSS SECTIONS
KAPALAI FRONTAGE ROAD
SCALE: HOR 1"=10'
VERT 1"=10'



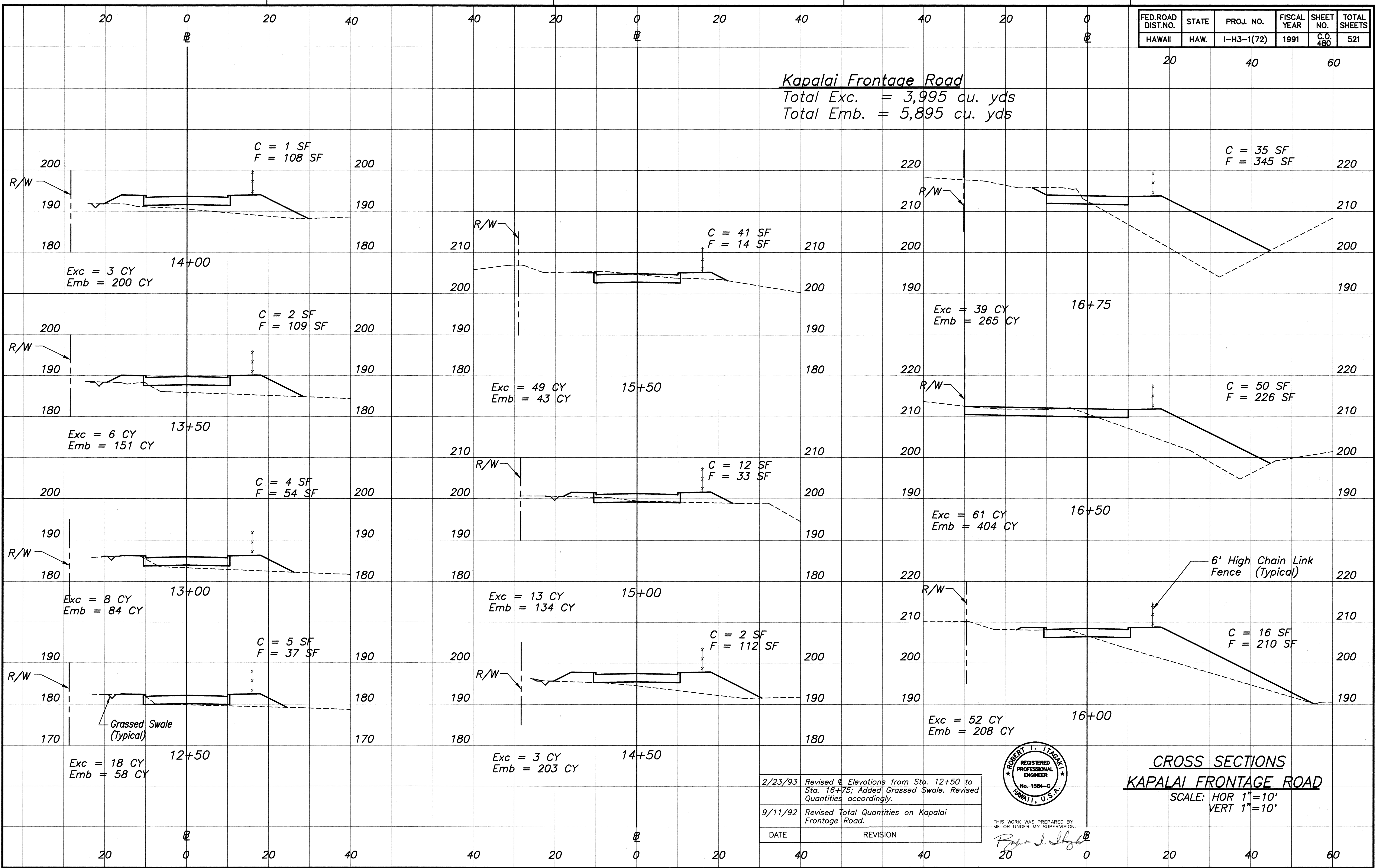
2/23/93	Revised Elevation of Sta. 12+00
1/27/92	Corrected Position of Exc. and Emb.
DATE	REVISION

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Robert L. Itagaki

C.O. ADD. 479

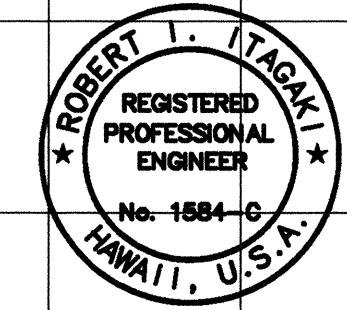
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 480	521

Kapalai Frontage Road
 Total Exc. = 3,995 cu. yds
 Total Emb. = 5,895 cu. yds



ORIGINAL PLAN
 DATE
 DRAWN BY
 CHECKED BY
 NO.

2/23/93	Revised Elevations from Sta. 12+50 to Sta. 16+75; Added Grassed Swale. Revised Quantities accordingly.
9/11/92	Revised Total Quantities on Kapalai Frontage Road.
DATE	REVISION

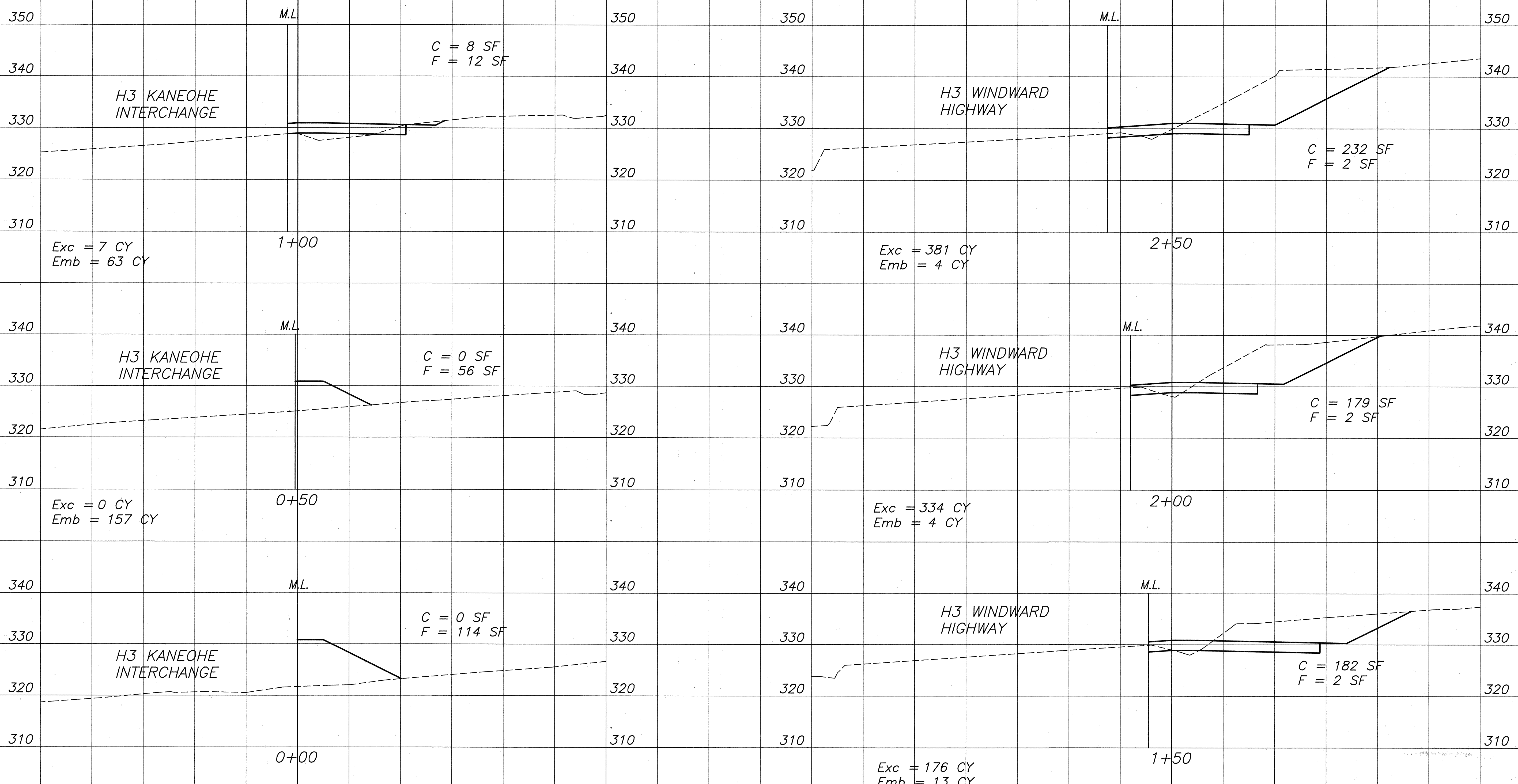


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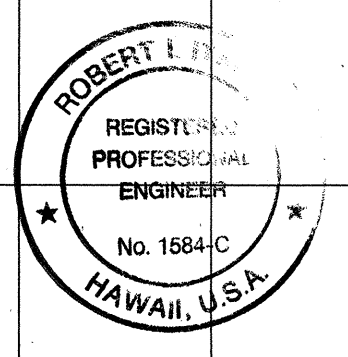
CROSS SECTIONS
KAPALAI FRONTAGE ROAD
 SCALE: HOR 1"=10'
 VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	481	521



**CROSS SECTIONS - WINDWARD
HIGHWAY EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'



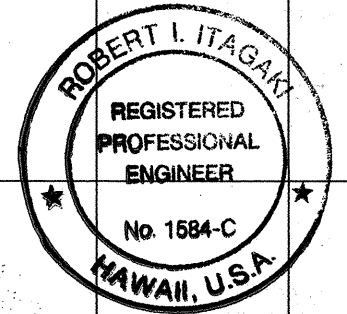
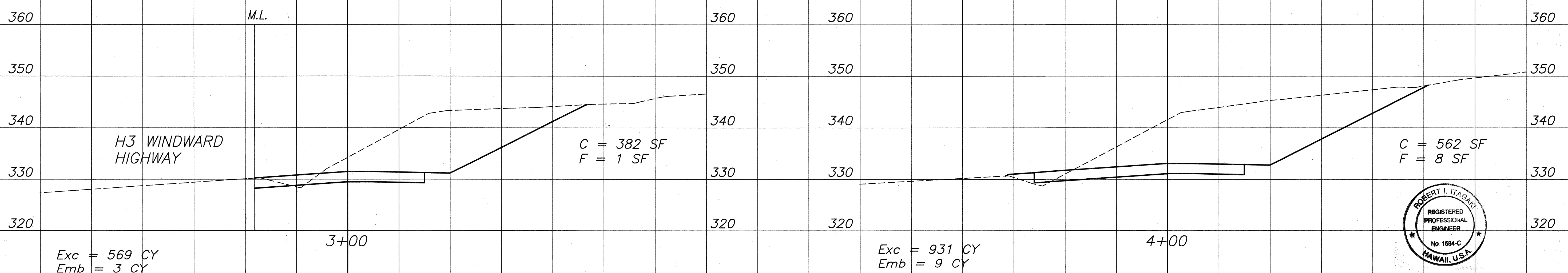
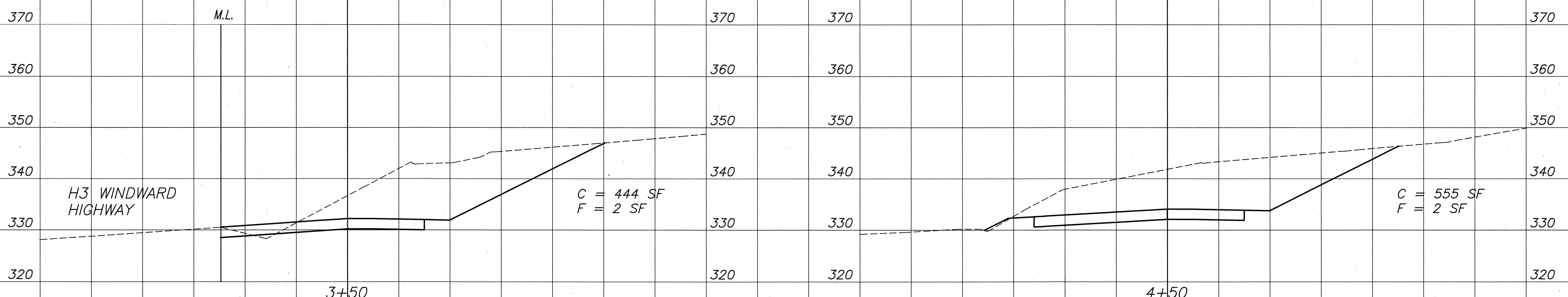
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[Signature]

ORIGINAL PLAN
DATE
DRAWN BY
DESIGNED BY
CHECKED BY
NOTE BOOK
No.

83-427 FV-METU LINE DRAWING INTERCHANGE H3 CROSS-SECTIONS 10/8/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	482	521

60 40 20 0 20 40 60 60 40 20 0 20



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Robert L. Itagaki

**CROSS SECTIONS - WINDWARD
HIGHWAY EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

60 40 20 0 20 40 60 60 40 20 0 20

ORIGINAL PLAN	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

83-4821 FM-WINDWARD EMERGENCY ESCAPE RAMP CROSS-SECTIONS 10/9/91

ORIGINAL
PLAN
No.

SURVEY PLOTTED BY
DATE

DRAWN BY
DATE

TRACED BY
DATE

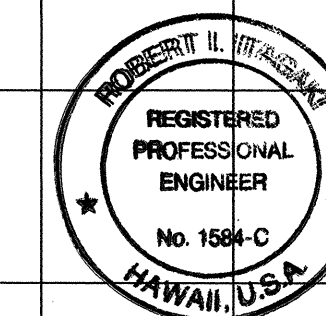
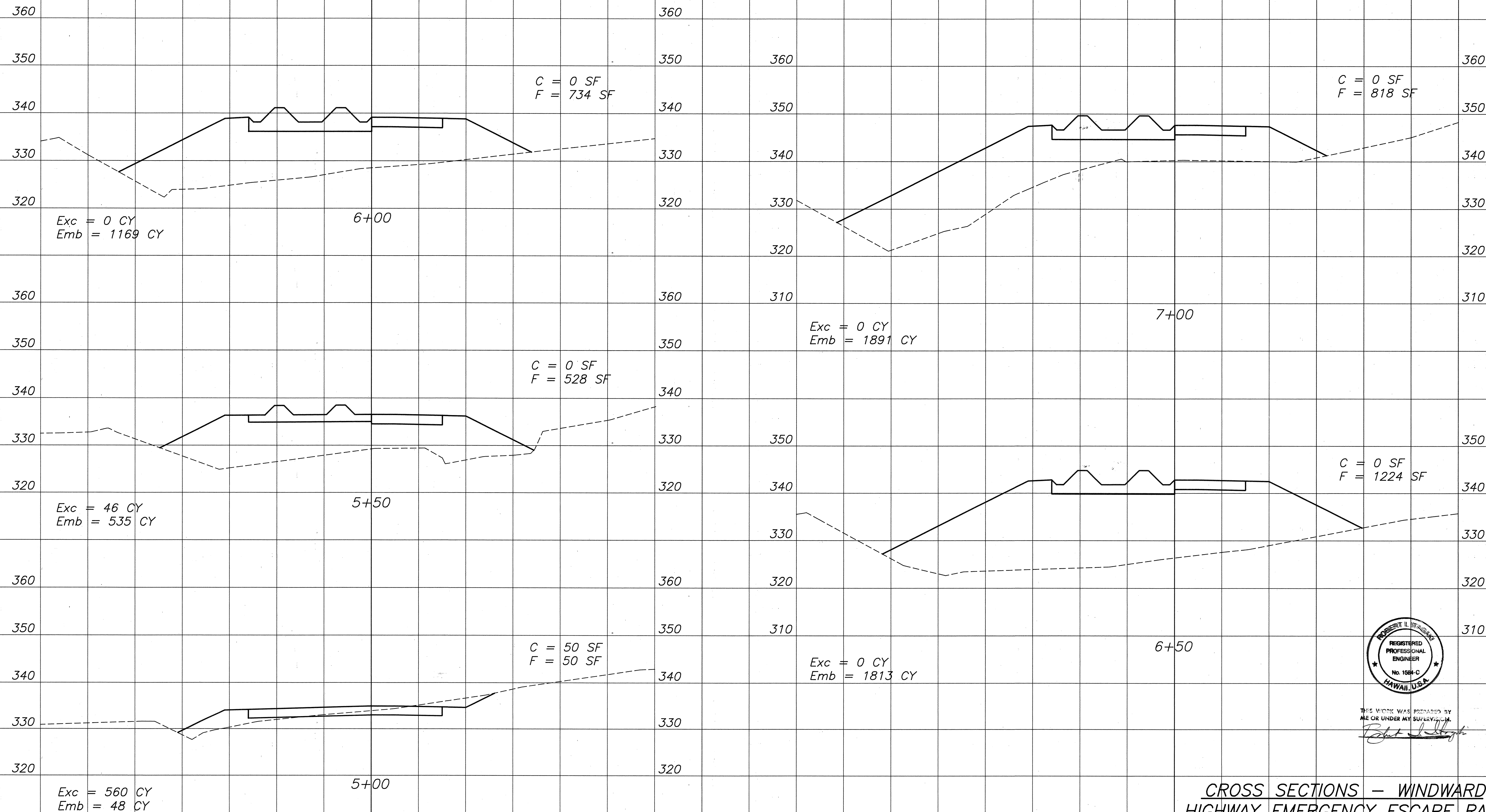
DESIGNED BY
DATE

CHECKED BY
DATE

83-4621 FM-INTERLIMB DIAMETER INTERCHANGE NO CROSS-SECTIONS 10/9/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	483	521

40 60



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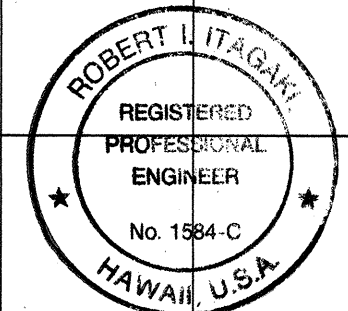
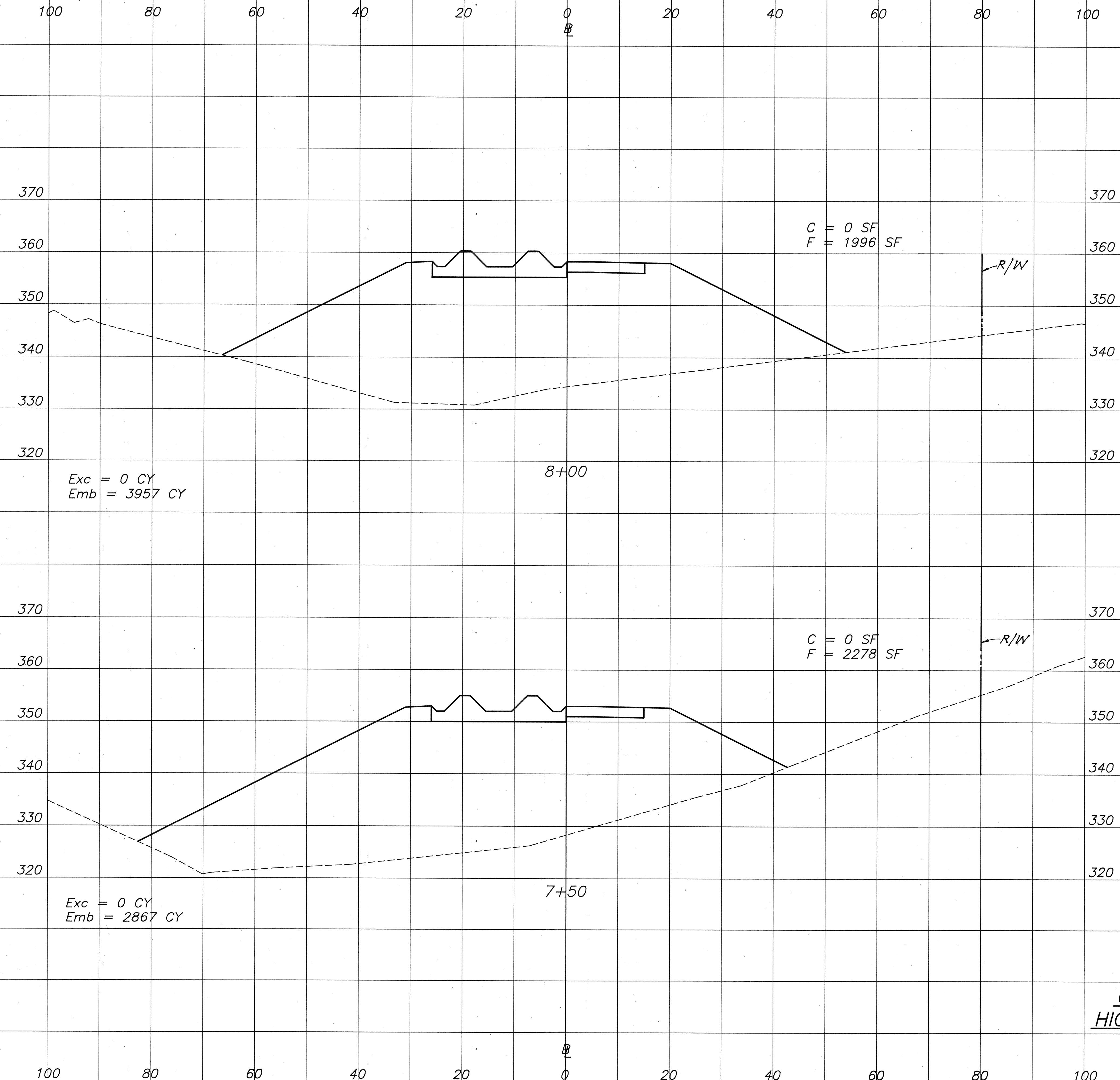
CROSS SECTIONS - WINDWARD
HIGHWAY EMERGENCY ESCAPE RAMP

SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN
 SURVEY PLOTTED BY _____ DATE _____
 DRAWN BY _____
 DESIGNED BY _____
 CHECKED BY _____
 No. _____

83-4521 FM-METRALONG DIAMENHE INTERCHANGE I-3 CROSS-SECTIONS 10/9/91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	484	521



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**CROSS SECTIONS - WINDWARD
HIGHWAY EMERGENCY ESCAPE RAMP**

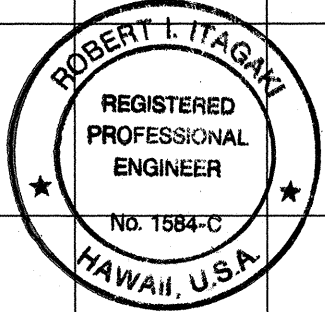
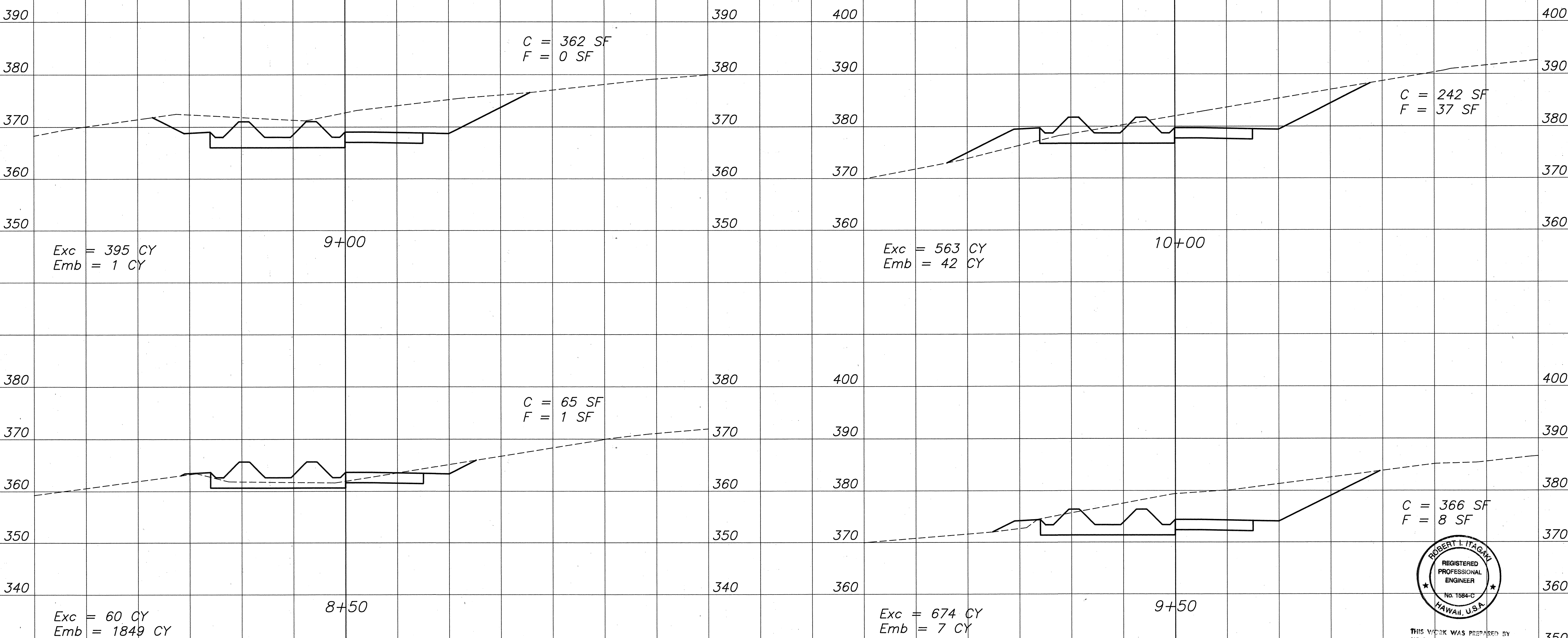
SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	485	521

Windward Hwy. Emergency Escape Ramp:

Total Exc. = 6,495 cu. yds.

Total Emb. = 14,444 cu. yds.



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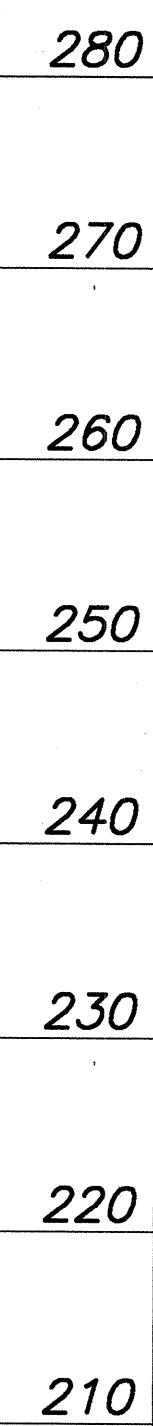
CROSS SECTIONS - WINDWARD
HIGHWAY EMERGENCY ESCAPE RAMP

SCALE: HOR 1"=10'
VERT 1"=10'

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

83-421 PLYMOUTH DRIVEWAY INTERCHANGE AT CROSS-SECTIONS 10/9/91

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 486	521

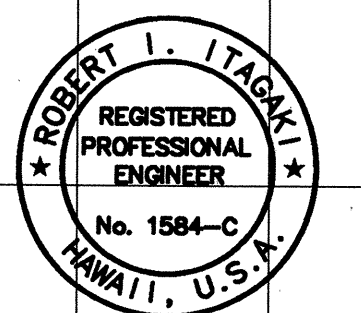


RELOCATED
LIKE LIKE HWY.

M.L.

 $4+50$
$$\begin{array}{l|l} C = & 0 \text{ SF} \\ F = & 2392 \text{ SF} \end{array}$$

270
260
250
240
230
220
210



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Robert L. Shyke

CROSS SECTIONS – LIKELIKE
EMERGENCY ESCAPE RAMP

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 486

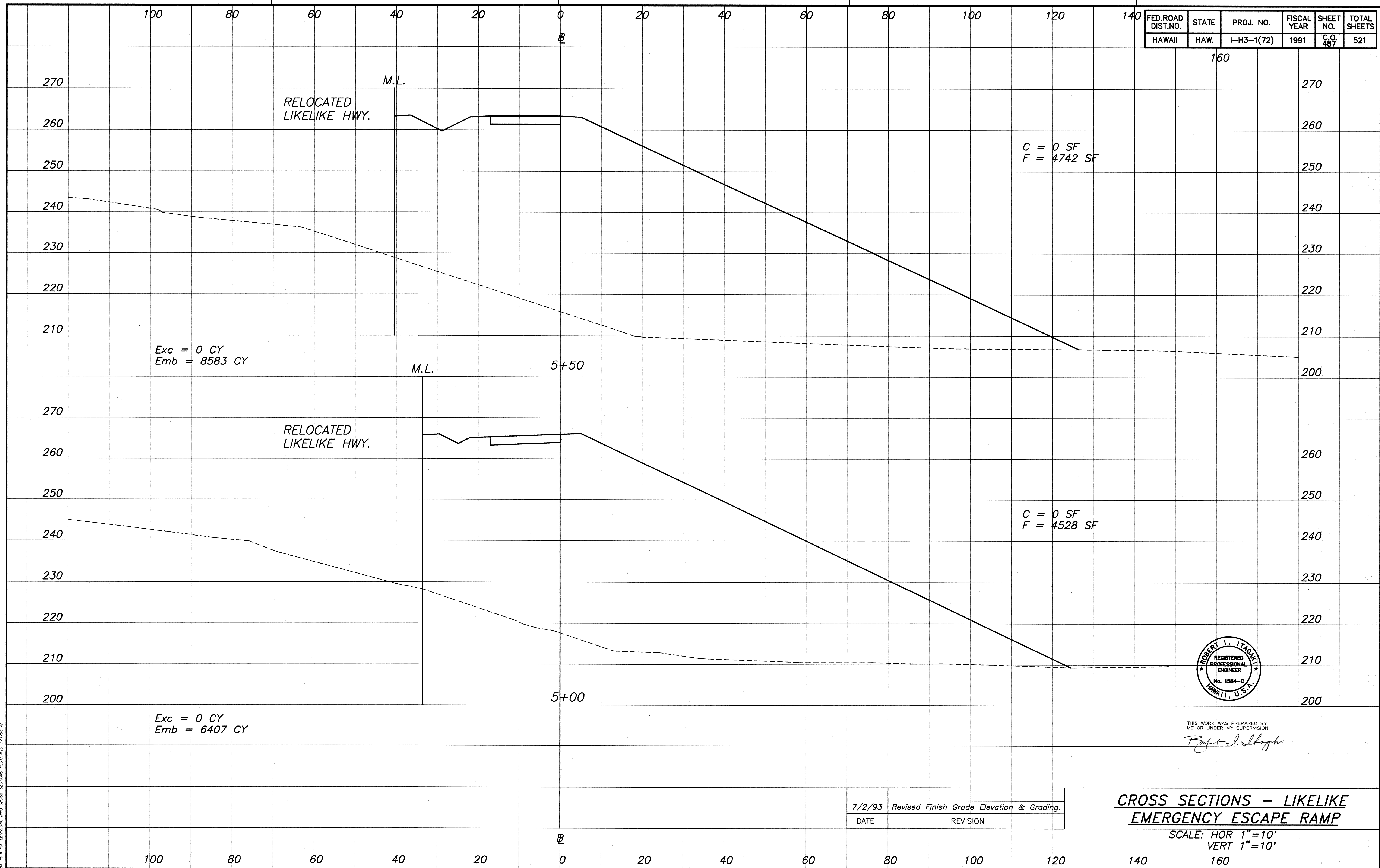
7/2/93	Revised Finish Grade Elevation & Grading		
DATE	REVISION		

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

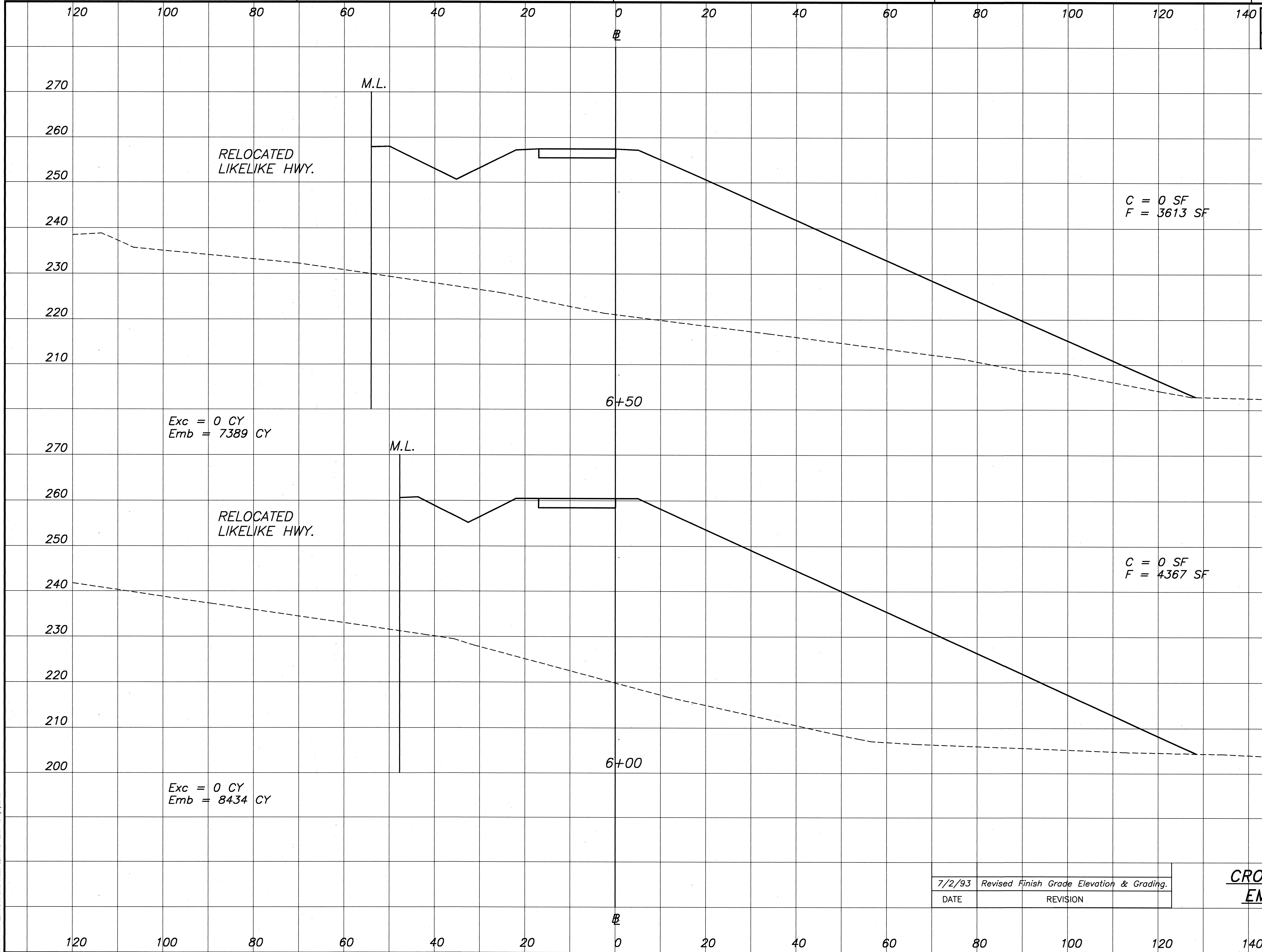
83--45.6 F:X-LETR1.DWG D:H3 CROSS-SECTIONS PLOT:1=10 7/1/93 AF

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DESIGNED BY	
NOTE BOOK	TRACED BY	
No.	QUANTITIES BY	
	CHECKED BY	

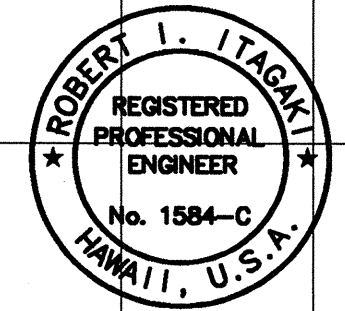
83-46 EX-LEP200 D14 CROSS-SECTIONS PLOT=10 7/1/93 AF



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 488	521



DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____



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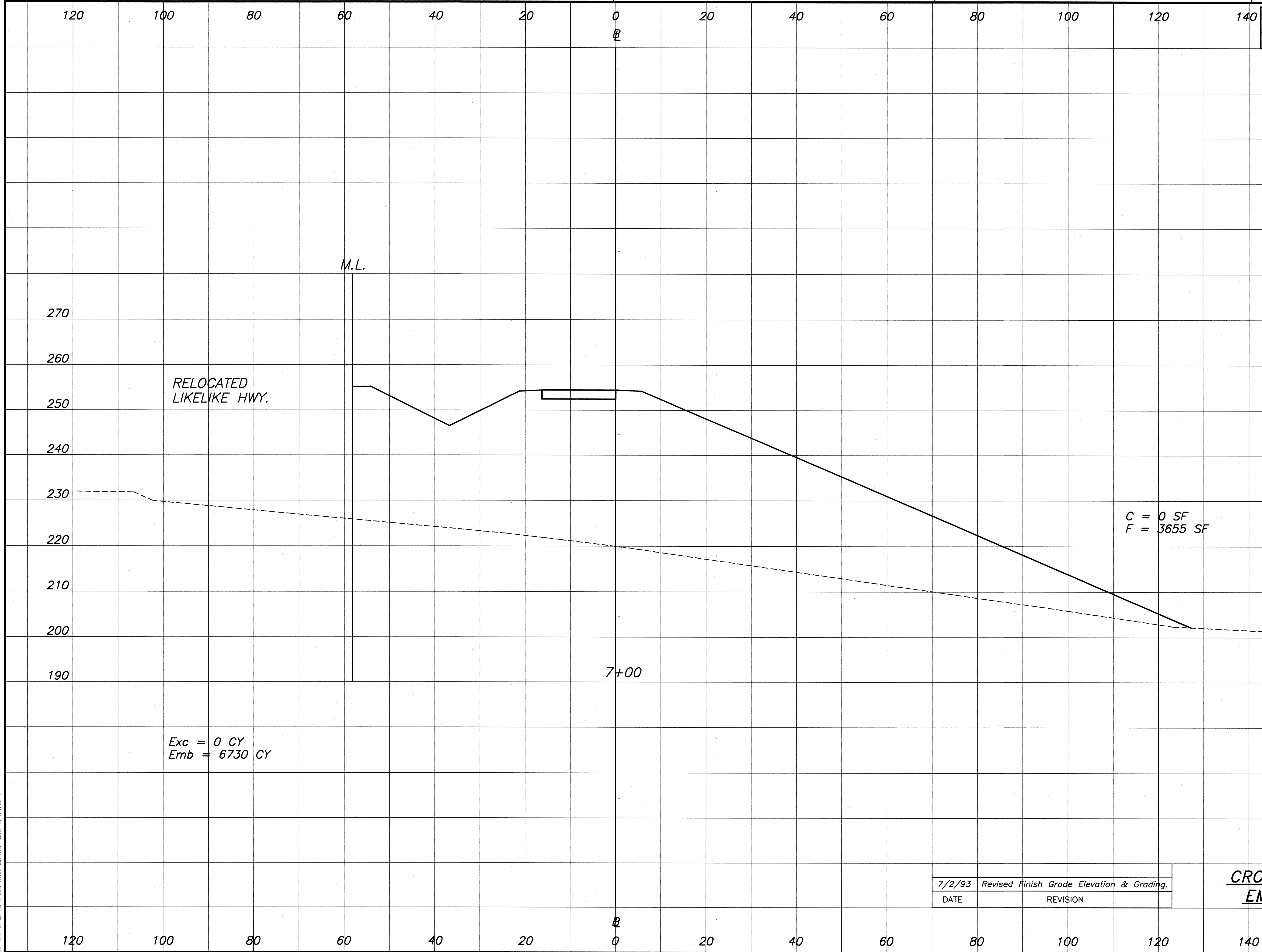
7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 489	521

160 180

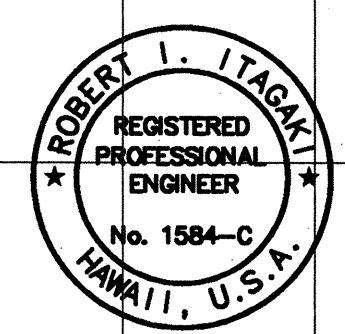


RELOCATED LIKELIKE HWY.

C = 0 SF
F = 3655 SF

Exc = 0 CY
Emb = 6730 CY

7+00



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 489

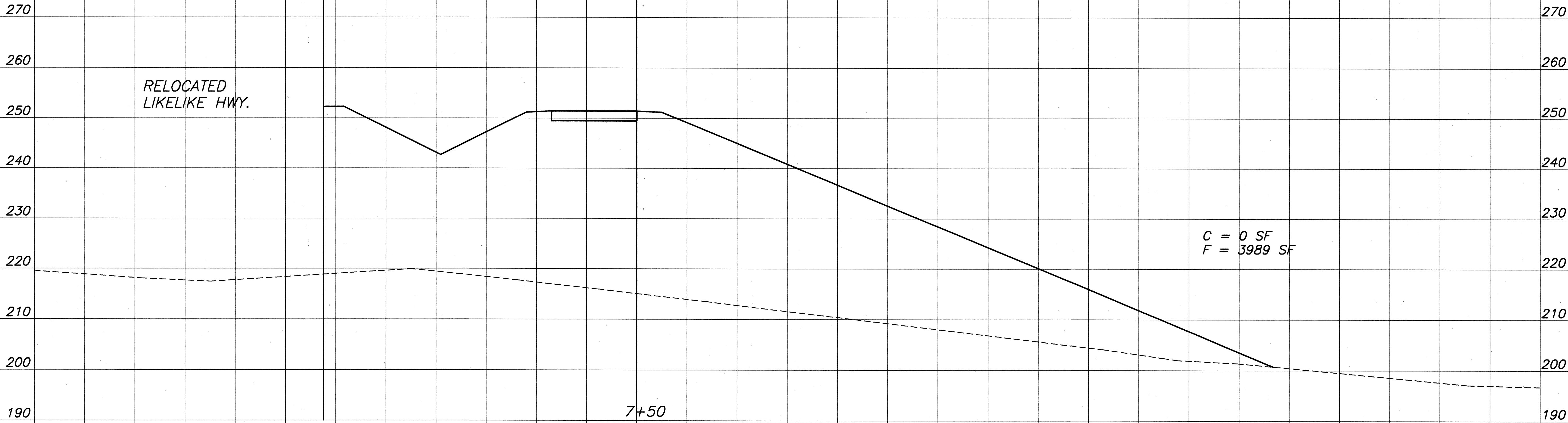
ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO.	

83-466 FA-LEADLINE DMS CROSS-SECTIONS PL001-10 7/1/93 AF

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 490	521

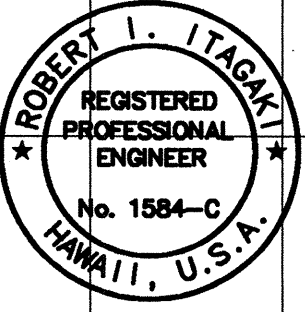
160 180

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



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
No.	

24-46 EX-LETTERING AND CROSS-SECTIONS 10/1/78 AF



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
 EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
 VERT 1"=10'

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

C.O. 490

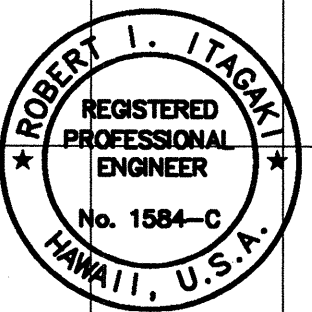
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 491	521

160 180

RELOCATED
LIKELIKE HWY.

C = 0 SF
F = 4769 SF

Exc = 0 CY
Emb = 8109 CY



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 491

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

81-45.6 F&A-LETTERING AND CROSS-SECTIONS PLOT-110 7/7/93 AF

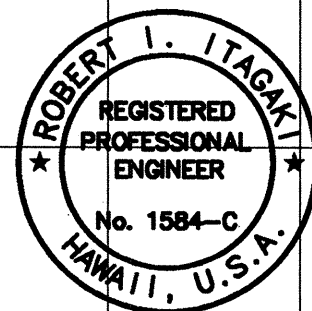
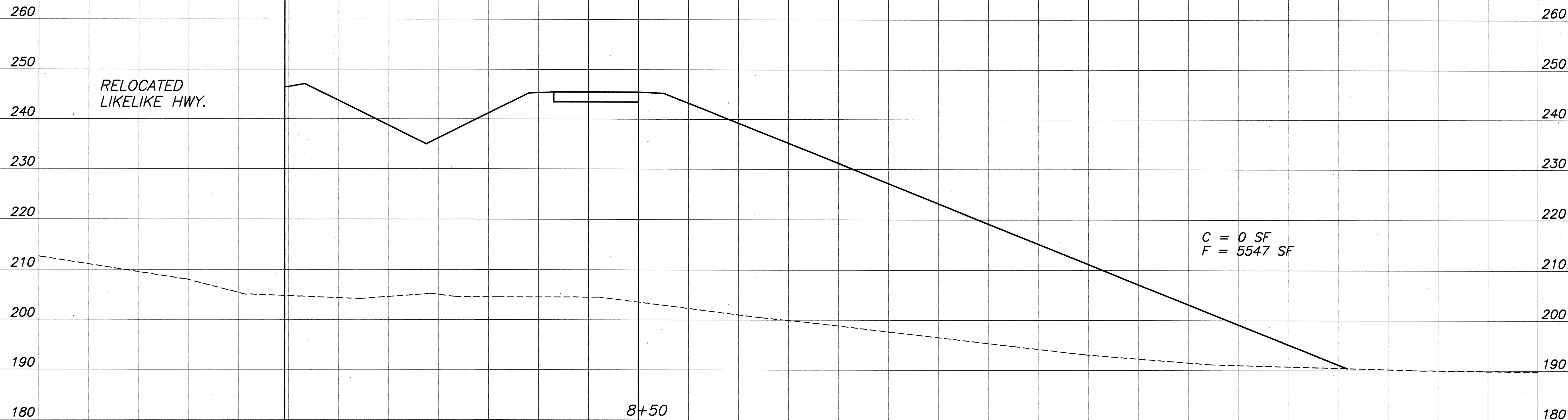
120 100 80 60 40 20 0 20 40 60 80 100 120 140

FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL YEAR SHEET NO. TOTAL SHEETS

HAWAII HAW. I-H3-1(72) 1991 C.O. 492 521

160 180

M.L.



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP

SCALE: HOR 1"=10'
VERT 1"=10'

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

C.O. 492

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

83-456 EX-LEP/2006 DMS CROSS-SECTIONS 8/21/10 11/03 AF

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 493	521

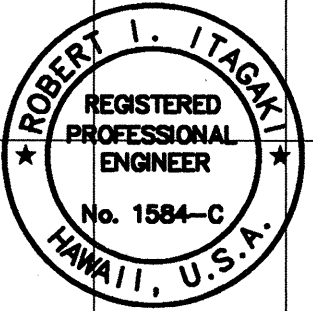
160 180

RELOCATED LIKELIKE HWY.

M.L.

C = 0 SF
F = 6184 SF

Exc = 0 CY
Emb = 10,862 CY



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 493

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	
NO.	

83-466 EX-LEAVING D43 CROSS-SECTIONS PL071=10 7/1/93 AF

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 494	521

160 180

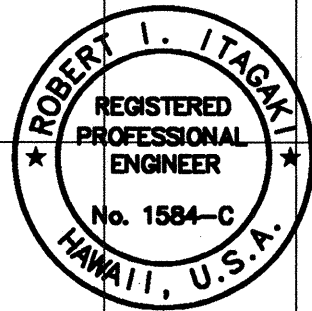
M.L.

RELOCATED
LIKELIKE HWY.

C = 0 SF
F = 5945 SF

9+50

Exc = 0 CY
Emb = 11,231 CY



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 494

DATE	____
DESIGNED BY	____
DRAWN BY	____
CHECKED BY	____
NO.	____

83-456 EX-LETRONE D-43 CROSS-SECTIONS PLAT-10 1/1/93 AF

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 495	521

160 180

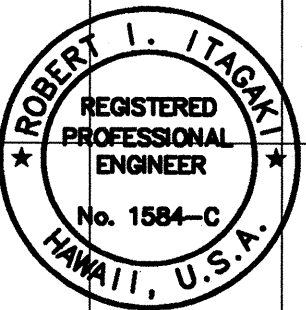
M.L.

RELOCATED
LIKELIKE HWY.

C = 0 SF
F = 5502 SF

Exc = 0 CY
Emb = 10,599 CY

10+00



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 495

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

33-456 EX-LETTERING 1/83 CROSS-SECTIONS PLOT=10 7/1/93 AF

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(72)	1991	C.O. 496	521

160 180

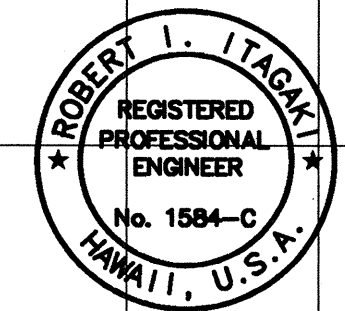
M.L.

RELOCATED LIKELIKE HWY.

C = 0 SF
F = 4722 SF

Exc = 0 CY
Emb = 9467 CY

10+50



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 496

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

83-456 EX-LETR LING DMS CROSS-SECTIONS PL01-10 7/2/93 AF

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 497	521

160 180

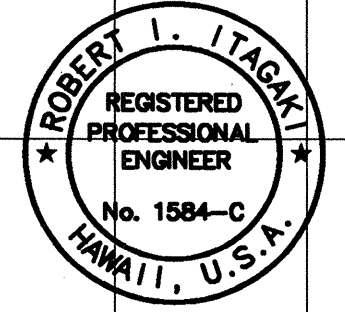
M.L.

RAMP TK

C = 0 SF
F = 3018 SF

Exc = 0 CY
Emb = 7167 CY

11+00



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7/2/93	Revised Finish Grade Elevation & Grading.
DATE	REVISION

**CROSS SECTIONS - LIKELIKE
EMERGENCY ESCAPE RAMP**

SCALE: HOR 1"=10'
VERT 1"=10'

C.O. 497

ORIGINAL PLAN	DATE
NO. 1	
NO. 2	
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NO. 100	

81-66 FM-LETRIZING CHD CROSS-SECTIONS PLOT-10 7/2/93 LF

