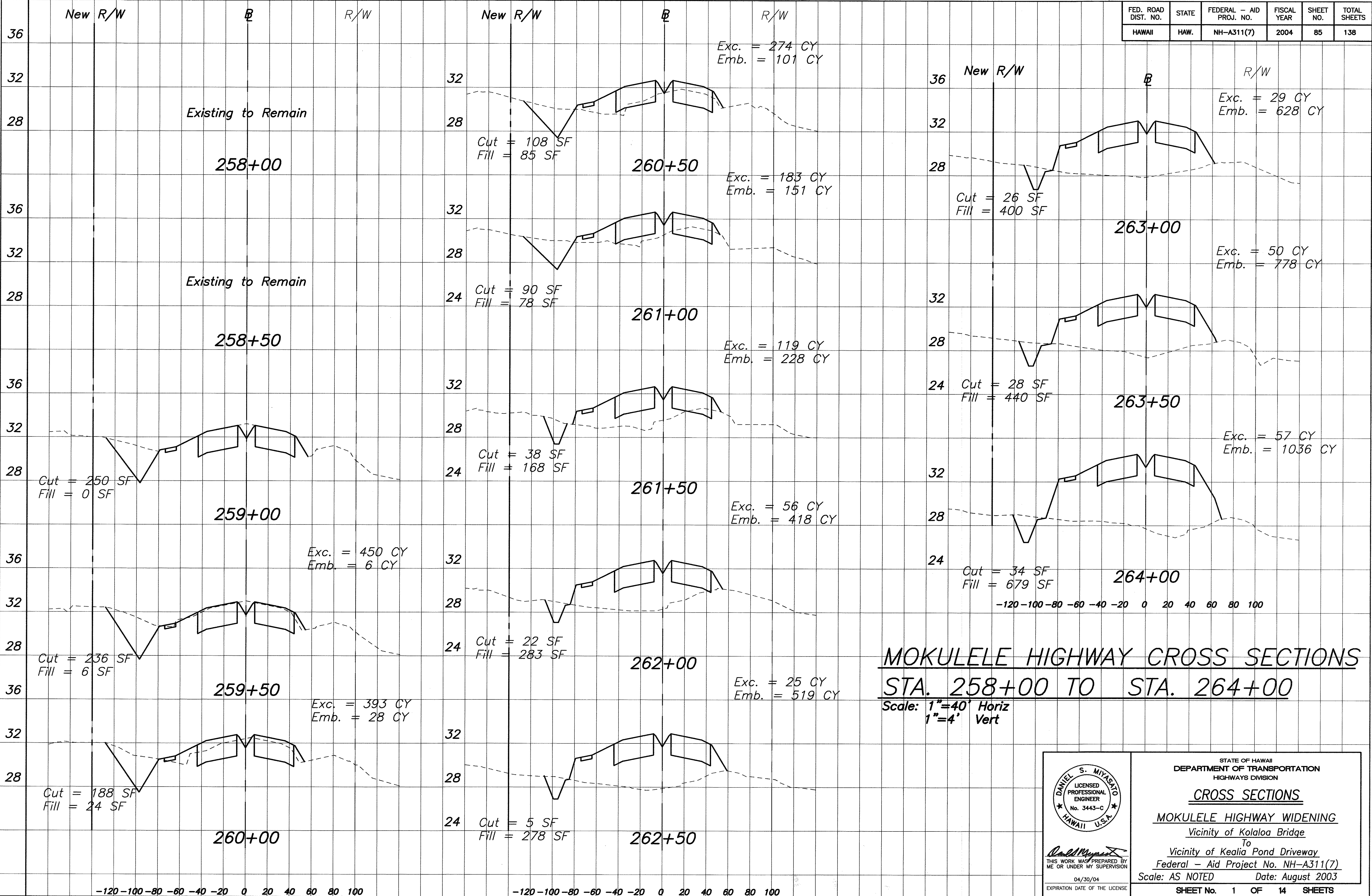


[illegible]

MOKULELE HIGHWAY CROSS SECTIONS
STA. 258+00 TO STA. 264+00
Scale: 1"=40' Horiz
1"=4' Vert

 <i>Daniel S. Miyasato</i> THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION 04/03/04 EXPIRATION DATE OF THE LICENSE	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>CROSS SECTIONS</u> <u>MOKULELE HIGHWAY WIDENING</u> <u>Vicinity of Kolaloa Bridge</u> To <u>Vicinity of Kealia Pond Driveway</u> <u>Federal - Aid Project No. NH-A311(7)</u> Scale: AS NOTED Date: August 2003 SHEET No. 1 OF 14 SHEETS
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FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	86	138

New R/W

Exc. = 79 CY
Emb. = 1006 CY

Exc. = 91 CY
Emb. = 960 CY

Exc. = 80 CY
Emb. = 1016 CY

Exc. = 78 CY
Emb. = 1094 CY

Exc. = 81 CY
Emb. = 1161 CY

New R/W

Exc. = 81 CY
Emb. = 1217 CY

Exc. = 77 CY
Emb. = 1352 CY

Exc. = 78 CY
Emb. = 1509 CY

Exc. = 84 CY
Emb. = 1609 CY

Exc. = 79 CY
Emb. = 1733 CY

New R/W

Exc. = 76 CY
Emb. = 1843 CY

Exc. = 73 CY
Emb. = 1889 CY

Exc. = 65 CY
Emb. = 1880 CY

Cut = 51 SF
Fill = 515 SF

Cut = 47 SF
Fill = 522 SF

Cut = 39 SF
Fill = 575 SF

Cut = 45 SF
Fill = 606 SF

Cut = 43 SF
Fill = 648 SF

Cut = 44 SF
Fill = 666 SF

Cut = 39 SF
Fill = 794 SF

Cut = 45 SF
Fill = 836 SF

Cut = 46 SF
Fill = 902 SF

Cut = 39 SF
Fill = 970 SF

Cut = 43 SF
Fill = 1020 SF

Cut = 36 SF
Fill = 1020 SF

Cut = 34 SF
Fill = 1010 SF

264+50

265+00

265+50

266+00

266+50

267+00

267+50

268+00

268+50

269+00

269+50

270+00

270+50

-120 -100 -80 -60 -40 -20 0 20 40 60 80 100

-120 -100 -80 -60 -40 -20 0 20 40 60 80 100

-120 -100 -80 -60 -40 -20 0 20 40 60 80 100

Exc. = 79 CY
Emb. = 1006 CY

Exc. = 91 CY
Emb. = 960 CY

Exc. = 80 CY
Emb. = 1016 CY

Exc. = 78 CY
Emb. = 1094 CY

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Cut = 39 SF
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Cut = 43 SF
Fill = 648 SF

Cut = 44 SF
Fill = 666 SF

Cut = 39 SF
Fill = 794 SF

Cut = 45 SF
Fill = 836 SF

Cut = 46 SF
Fill = 902 SF

Cut = 39 SF
Fill = 970 SF

Cut = 43 SF
Fill = 1020 SF

Cut = 36 SF
Fill = 1020 SF

Cut = 34 SF
Fill = 1010 SF

264+50

265+00

265+50

266+00

266+50

267+00

267+50

268+00

268+50

269+00

269+50

270+00

270+50

-120 -100 -80 -60 -40 -20 0 20 40 60 80 100

-120 -100 -80 -60 -40 -20 0 20 40 60 80 100

-120 -100 -80 -60 -40 -20 0 20 40 60 80 100

Exc. = 79 CY
Emb. = 1006 CY

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Exc. = 76 CY
Emb. = 1843 CY

Exc. = 73 CY
Emb. = 1889 CY

Exc. = 65 CY
Emb. = 1880 CY

Cut = 51 SF
Fill = 515 SF

Cut = 47 SF
Fill = 522 SF

Cut = 39 SF
Fill = 575 SF

Cut = 45 SF
Fill = 606 SF

Cut = 43 SF
Fill = 648 SF

Cut = 44 SF
Fill = 666 SF

Cut = 39 SF
Fill = 794 SF

Cut = 45 SF
Fill = 836 SF

Cut = 46 SF
Fill = 902 SF

Cut = 39 SF
Fill = 970 SF

Cut = 43 SF
Fill = 1020 SF

Cut = 36 SF
Fill = 1020 SF

Cut = 34 SF
Fill = 1010 SF

264+50

2

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

04/30/04

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING

Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway

Federal - Aid Project No. NH-A311(7)

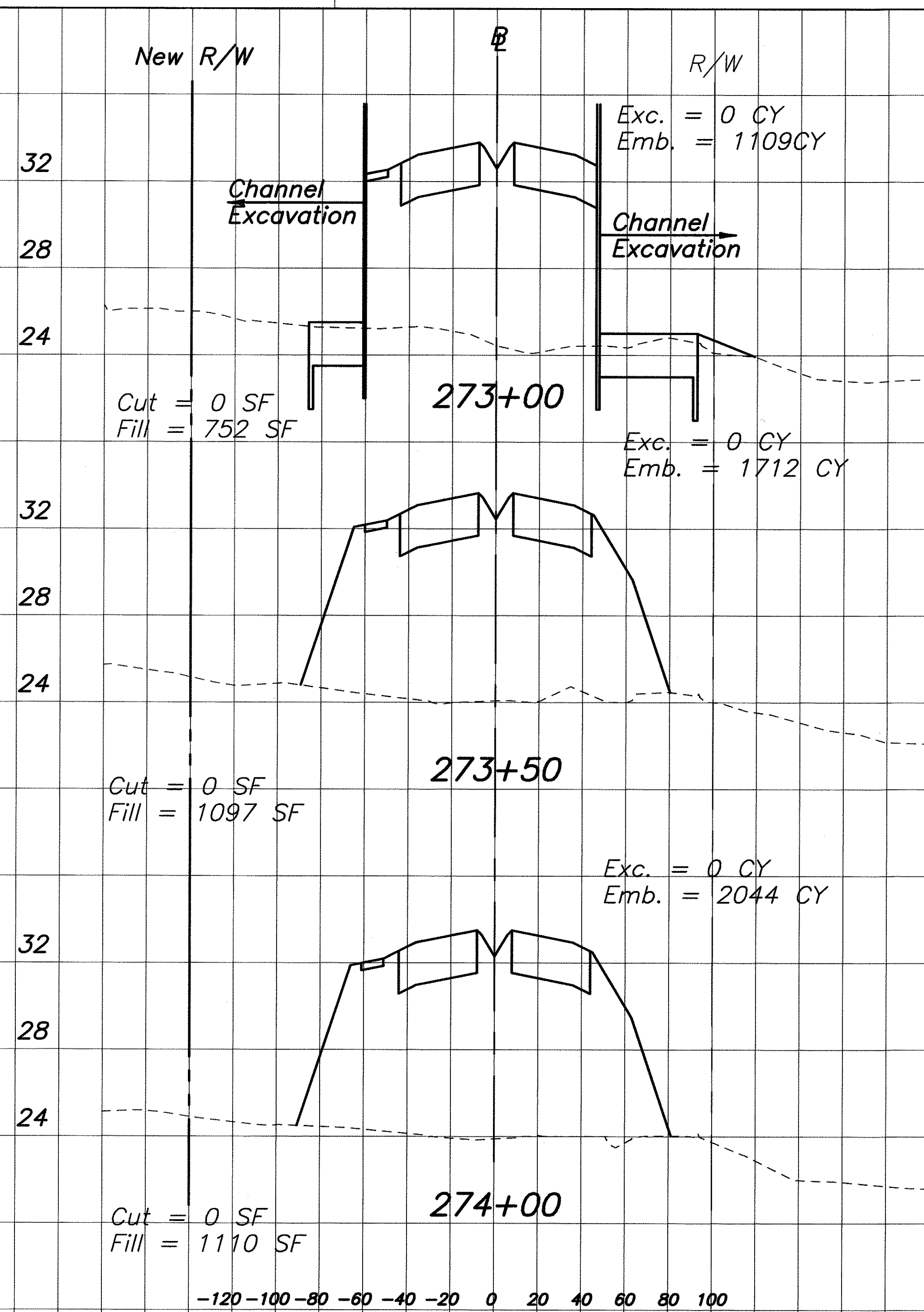
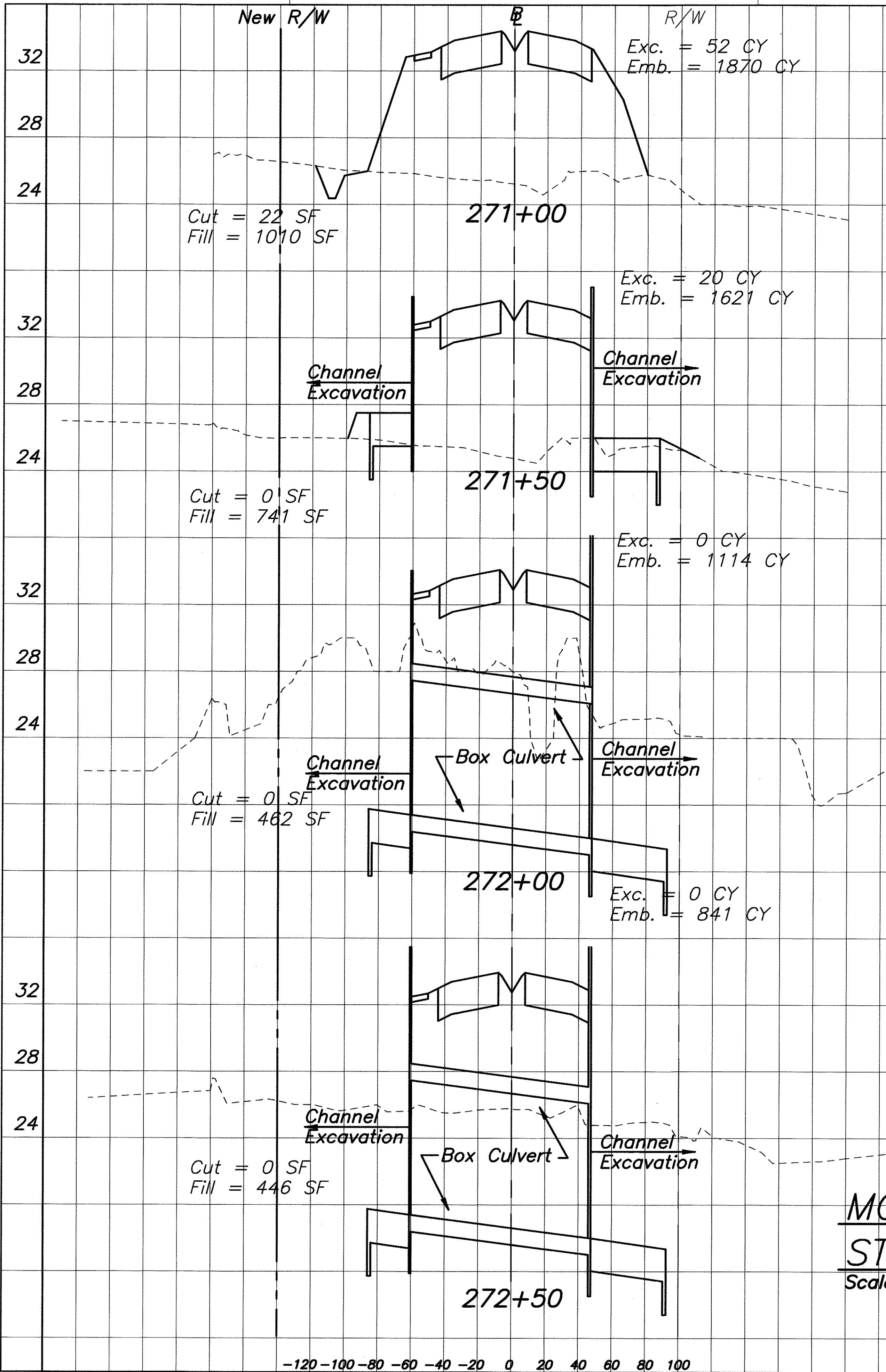
Scale: AS NOTED Date: August 2003

SHEET NO. 2 OF 14 SHEETS

86

PRQJ. NO.: M9901.00
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8/9/02

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	87	138



MOKULELE HIGHWAY CROSS SECTIONS
STA. 271+00 TO STA. 274+00
 Scale: 1"=40' Horiz
 1"=4' Vert

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 04/30/04
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

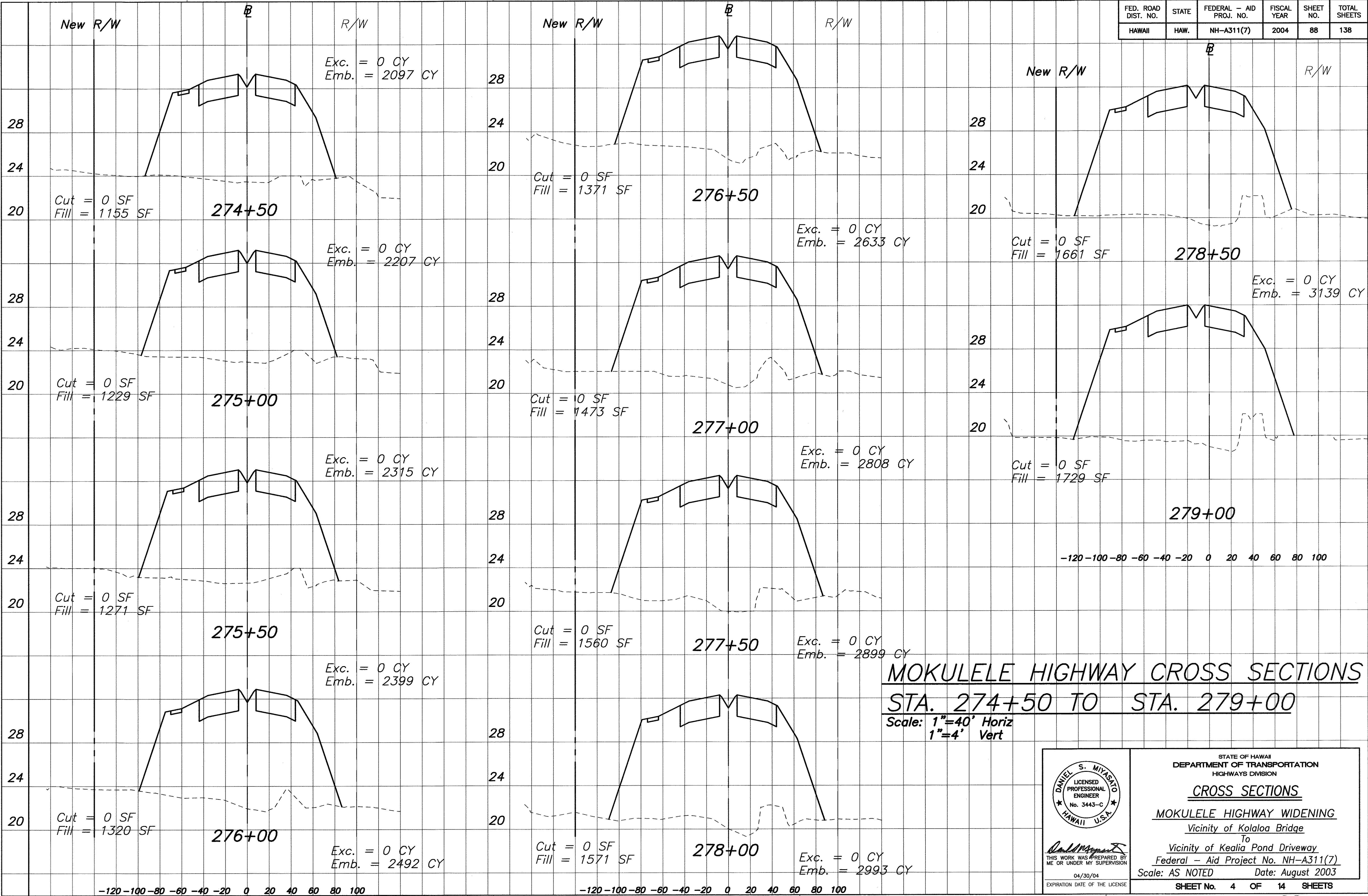
CROSS SECTIONS
MOKULELE HIGHWAY WIDENING
 Vicinity of Kolaloa Bridge
 To
 Vicinity of Kealia Pond Driveway
 Federal - Aid Project No. NH-A311(7)
 Scale: AS NOTED Date: August 2003

SHEET No. 3 OF 14 SHEETS

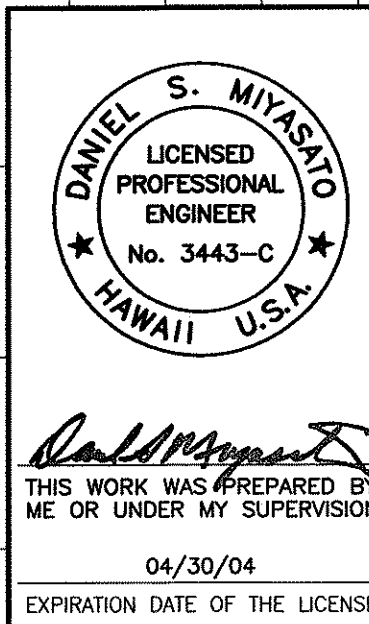
PROJ. NO.: M9901.00
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 8/9/02

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	88	138

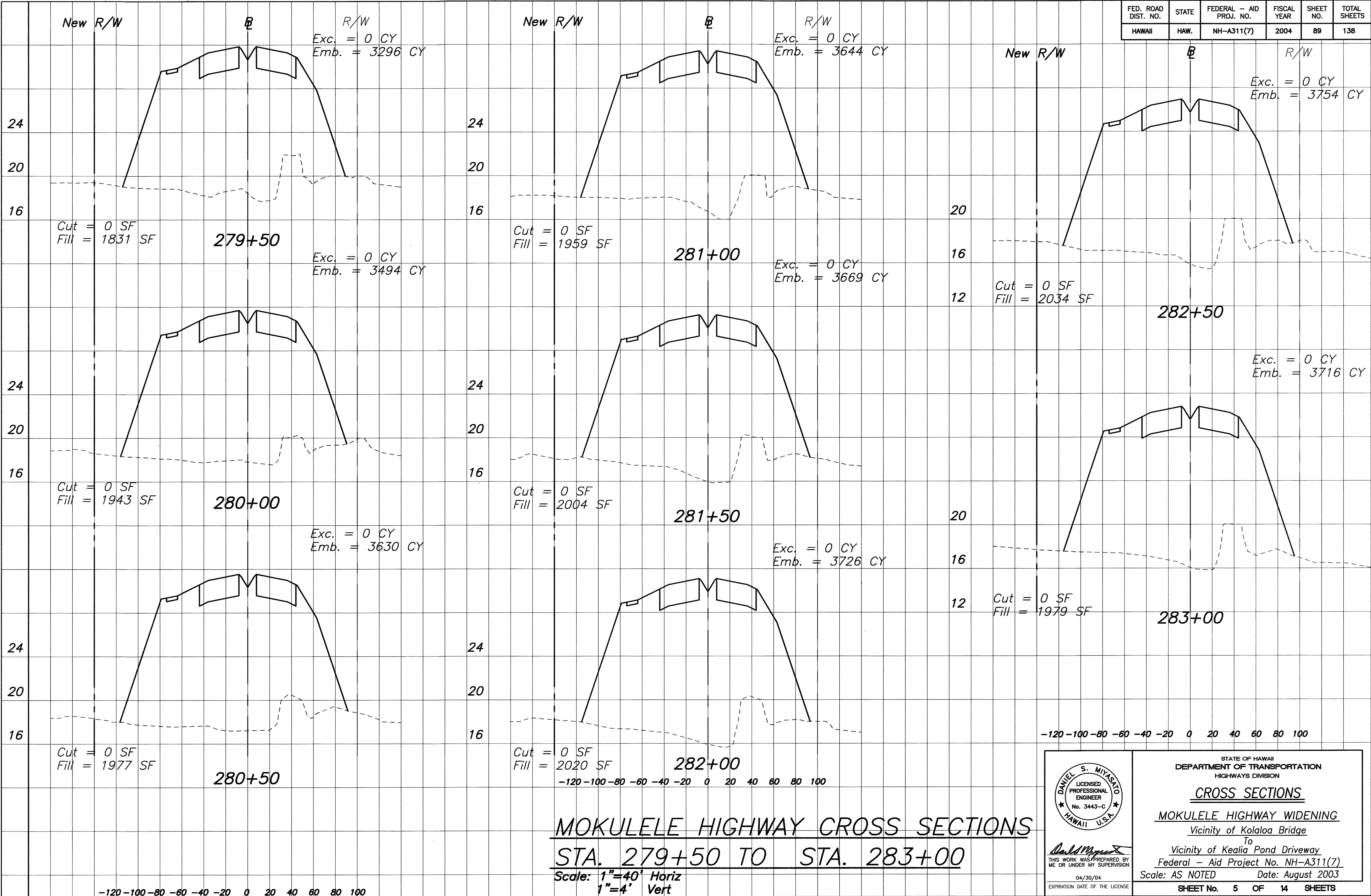


ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
NOTED BY
No.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CROSS SECTIONS
MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: AS NOTED Date: August 2003
SHEET No. 4 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	89	138



ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
NOTE BOOK
No.

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04/30/04
EXPIRATION DATE OF THE LICENSE

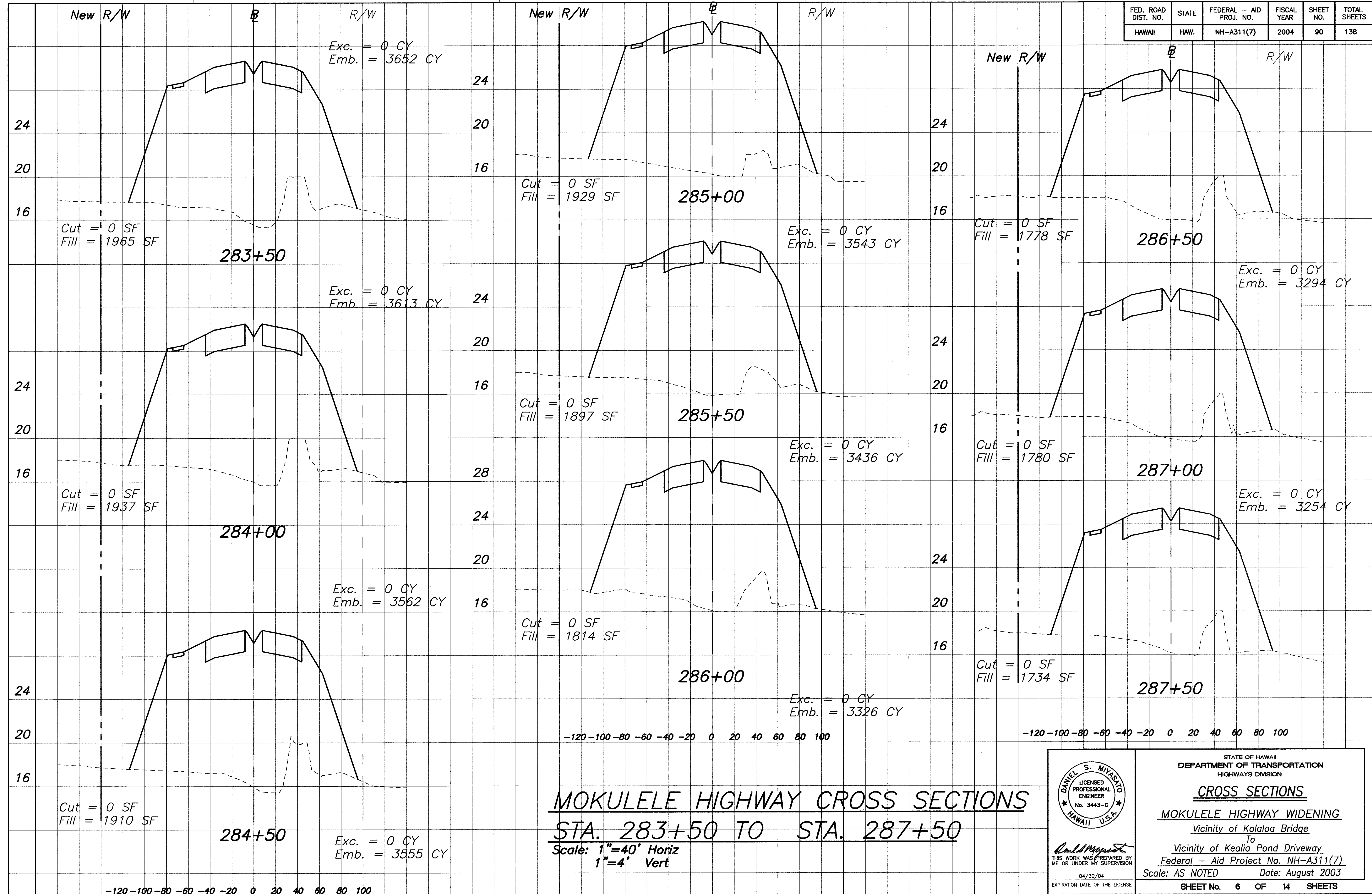
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: AS NOTED Date: August 2003

SHEET No. 5 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	90	138



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

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 04/30/04
 EXPIRATION DATE OF THE LICENSE

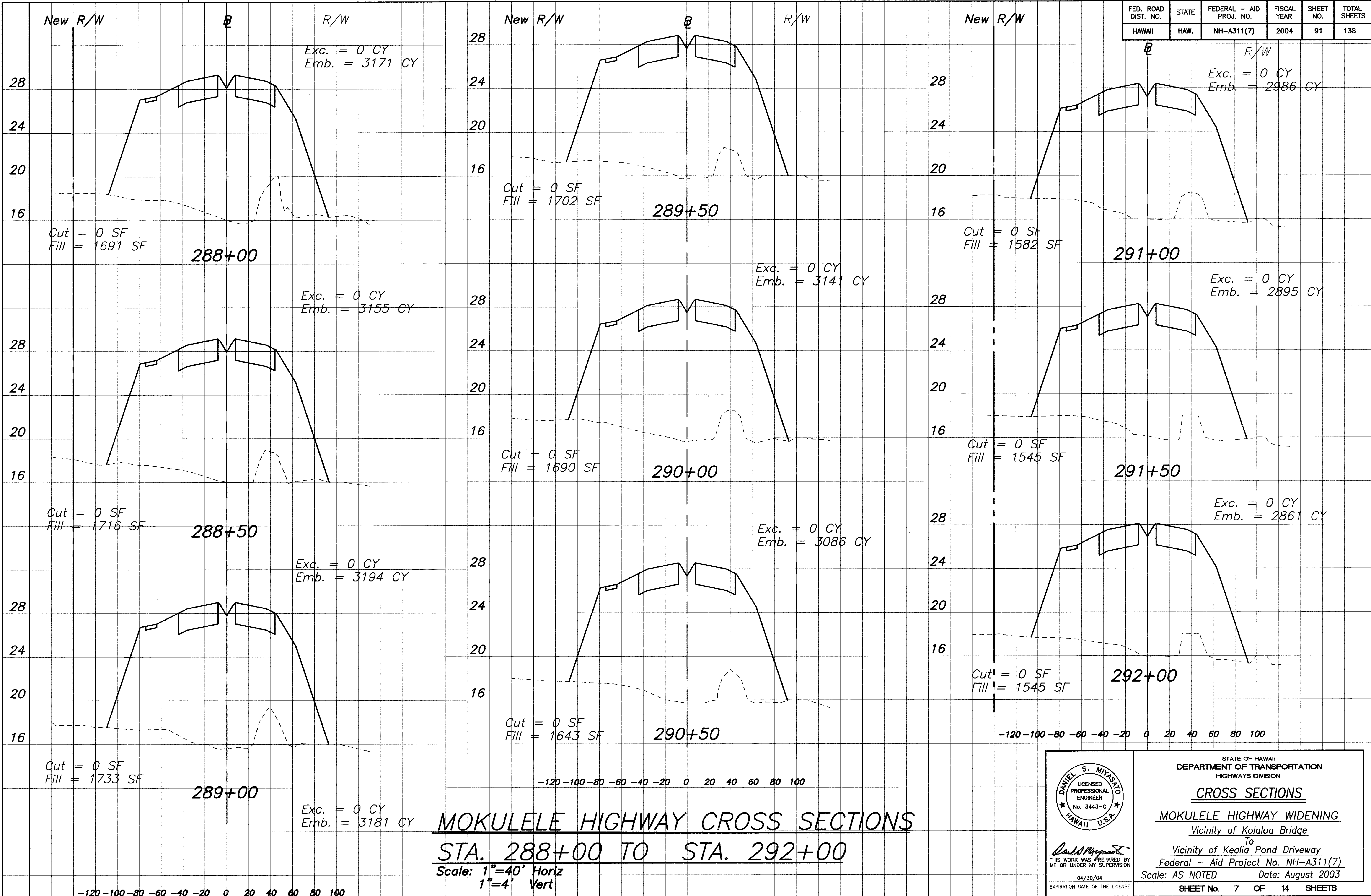
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING
 Vicinity of Kealia Pond Driveway
 Federal - Aid Project No. NH-A311(7)
 Scale: AS NOTED Date: August 2003

SHEET No. 6 OF 14 SHEETS

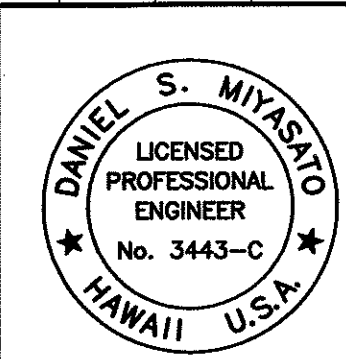
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	91	138



MOKULELE HIGHWAY CROSS SECTIONS

STA. 288+00 TO STA. 292+00

Scale: 1"=40' Horiz
1"=4' Vert



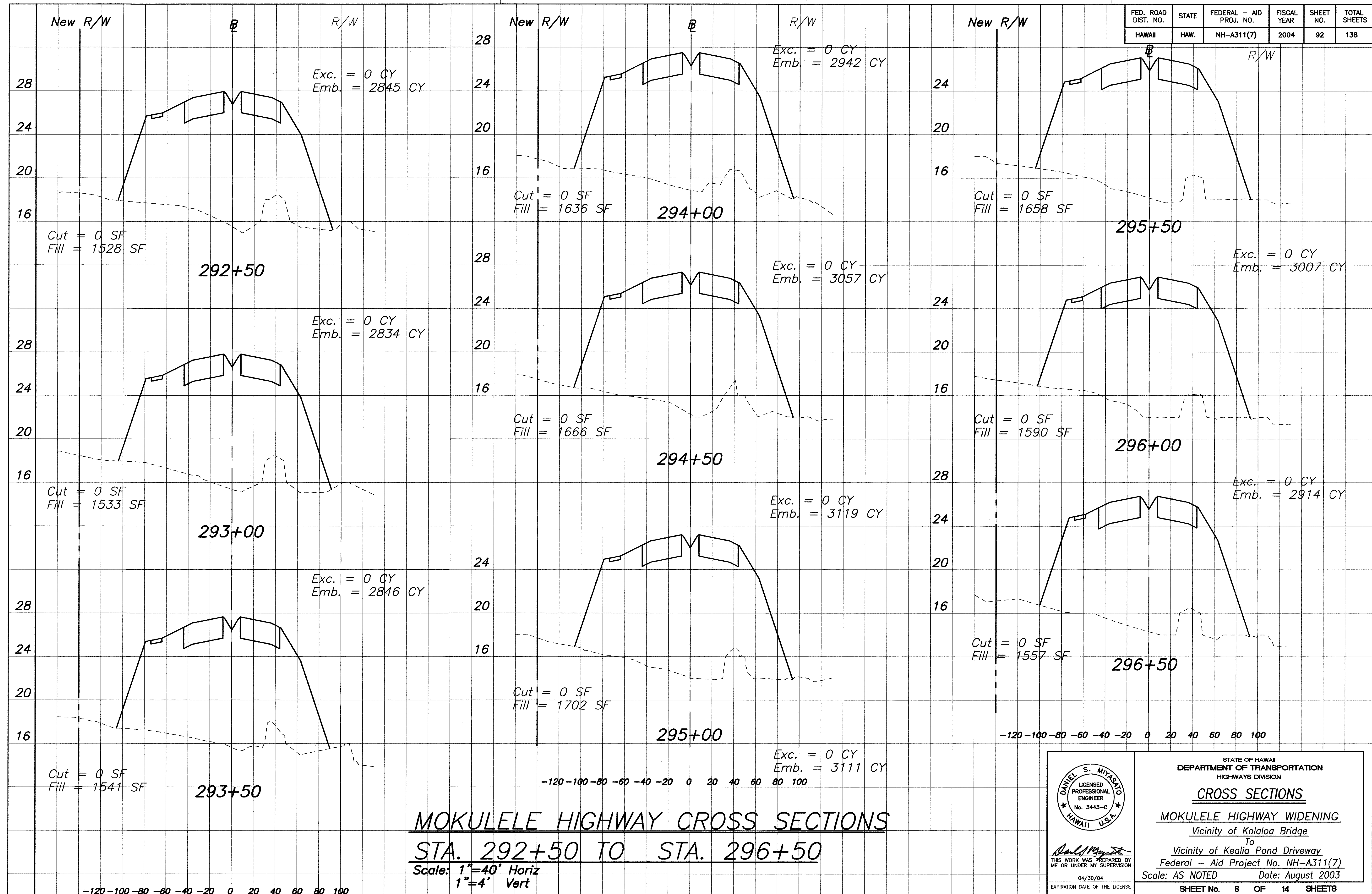
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: AS NOTED Date: August 2003
SHEET No. 7 OF 14 SHEETS

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	92	138



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING

Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)

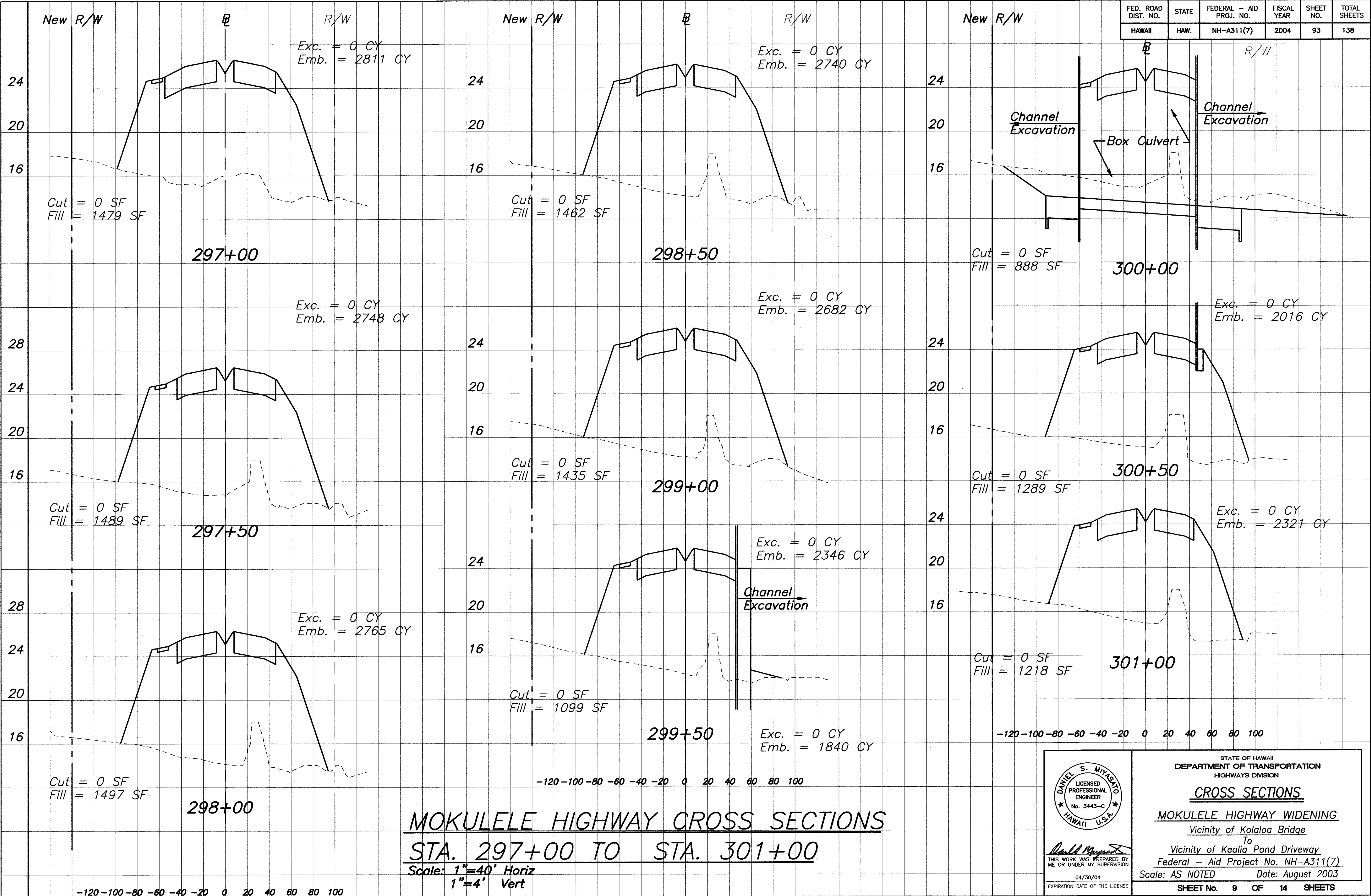
Scale: AS NOTED Date: August 2003

SHEET No. 8 OF 14 SHEETS

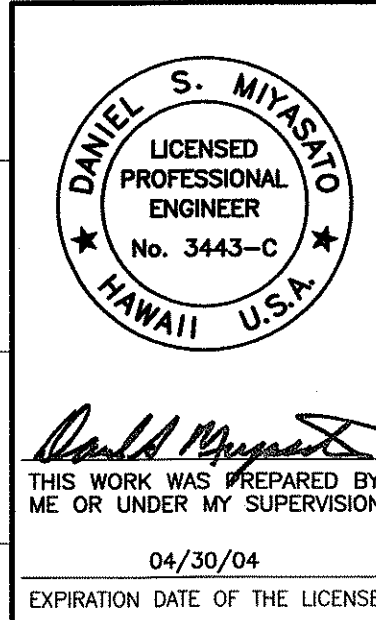
92

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	93	138



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

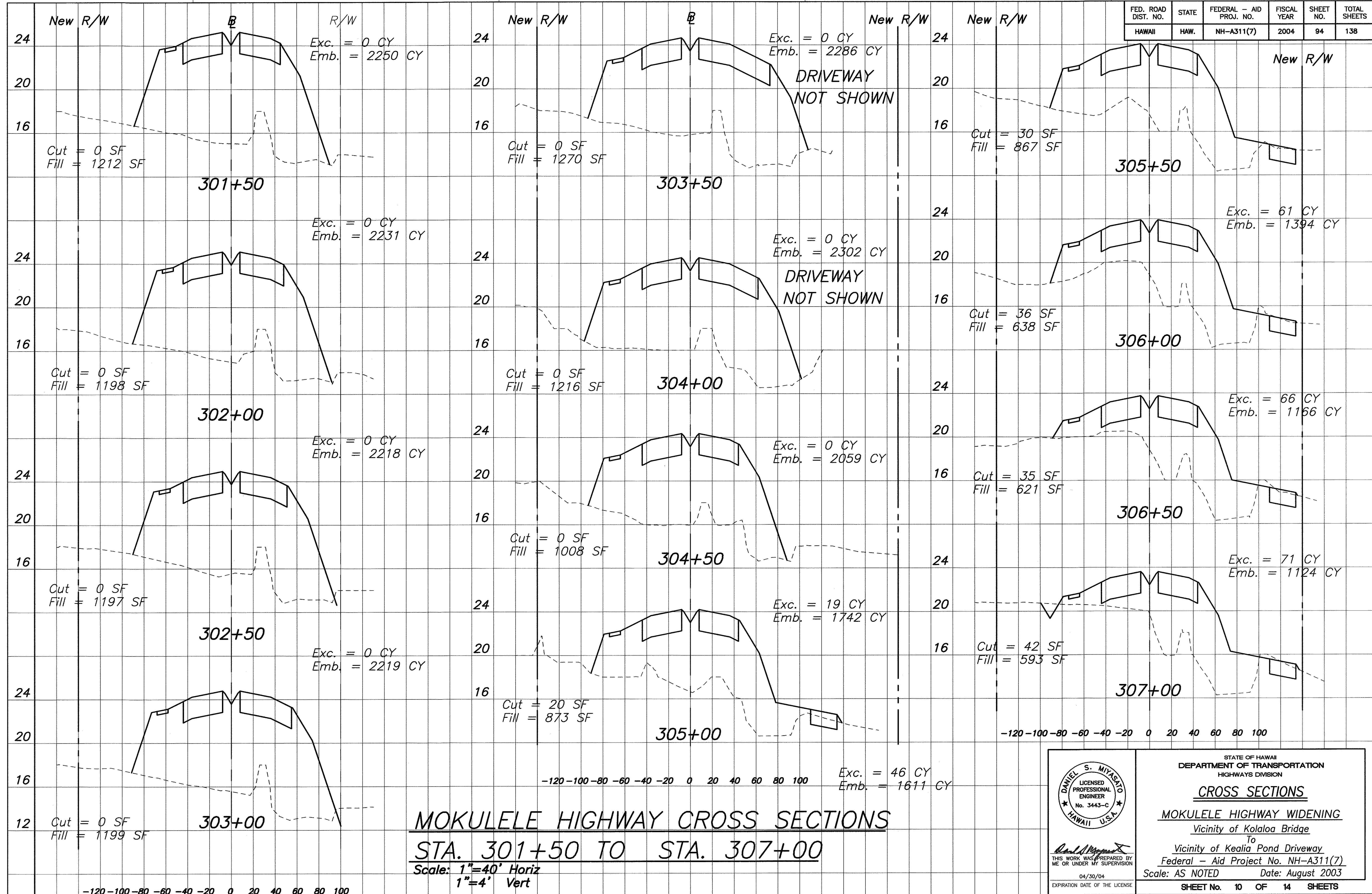


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CROSS SECTIONS
 MOKULELE HIGHWAY WIDENING
 Vicinity of Kolaloa Bridge
 To
 Vicinity of Kealia Pond Driveway
 Federal - Aid Project No. NH-A311(7)
 Scale: AS NOTED Date: August 2003

SHEET No. 9 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	94	138



MOKULELE HIGHWAY CROSS SECTIONS

STA. 301+50 TO STA. 307+00

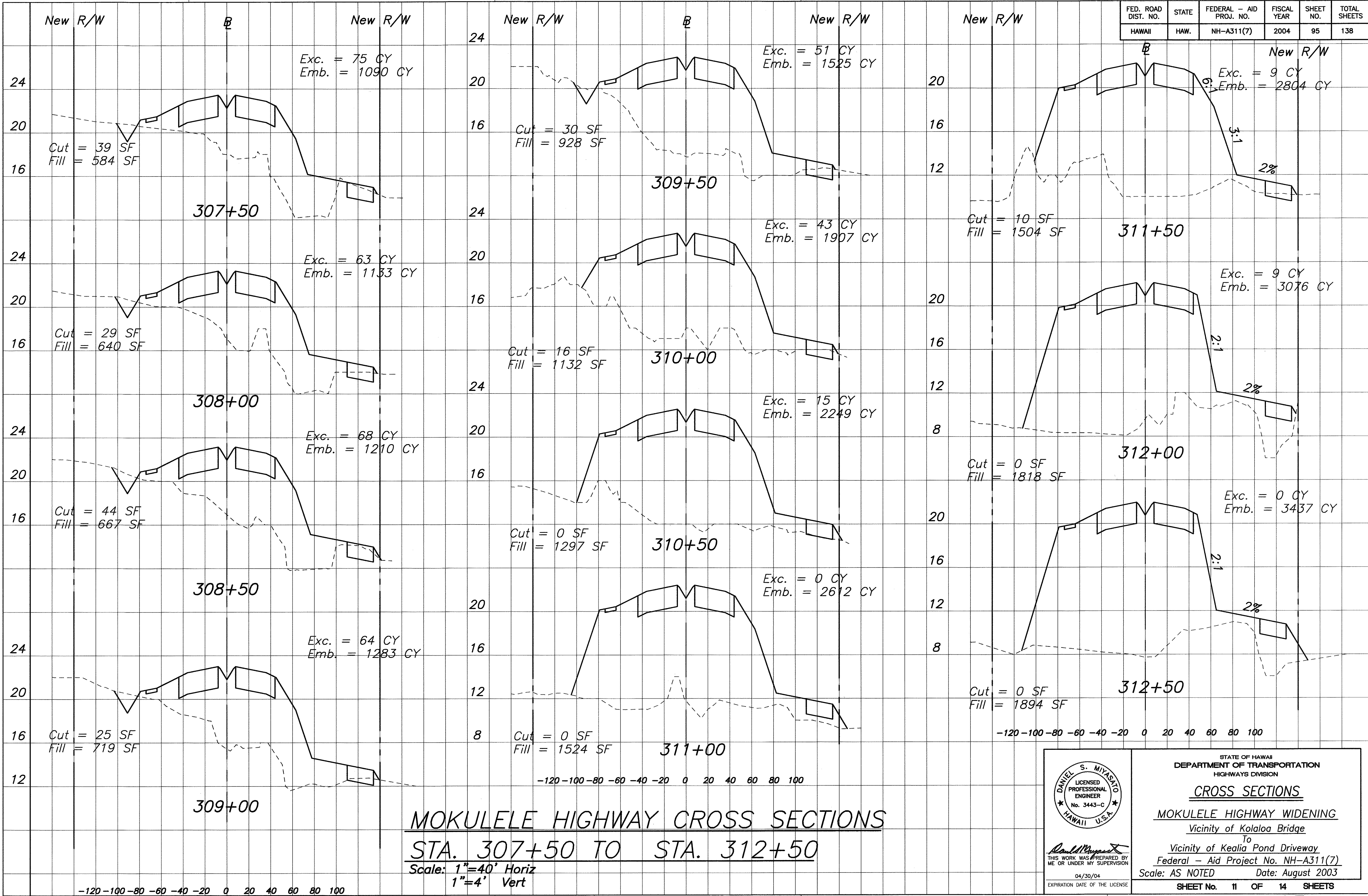
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04/30/04
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: AS NOTED Date: August 2003

SHEET No. 10 OF 14 SHEETS



8/9/02

PROJ. NO.: M9901.00
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DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
TRACED BY: _____
DESIGNED BY: _____
CHECKED BY: _____
NOTE BOOK: _____
No. _____

DANIEL S. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 3443-C
HAWAII, U.S.A.

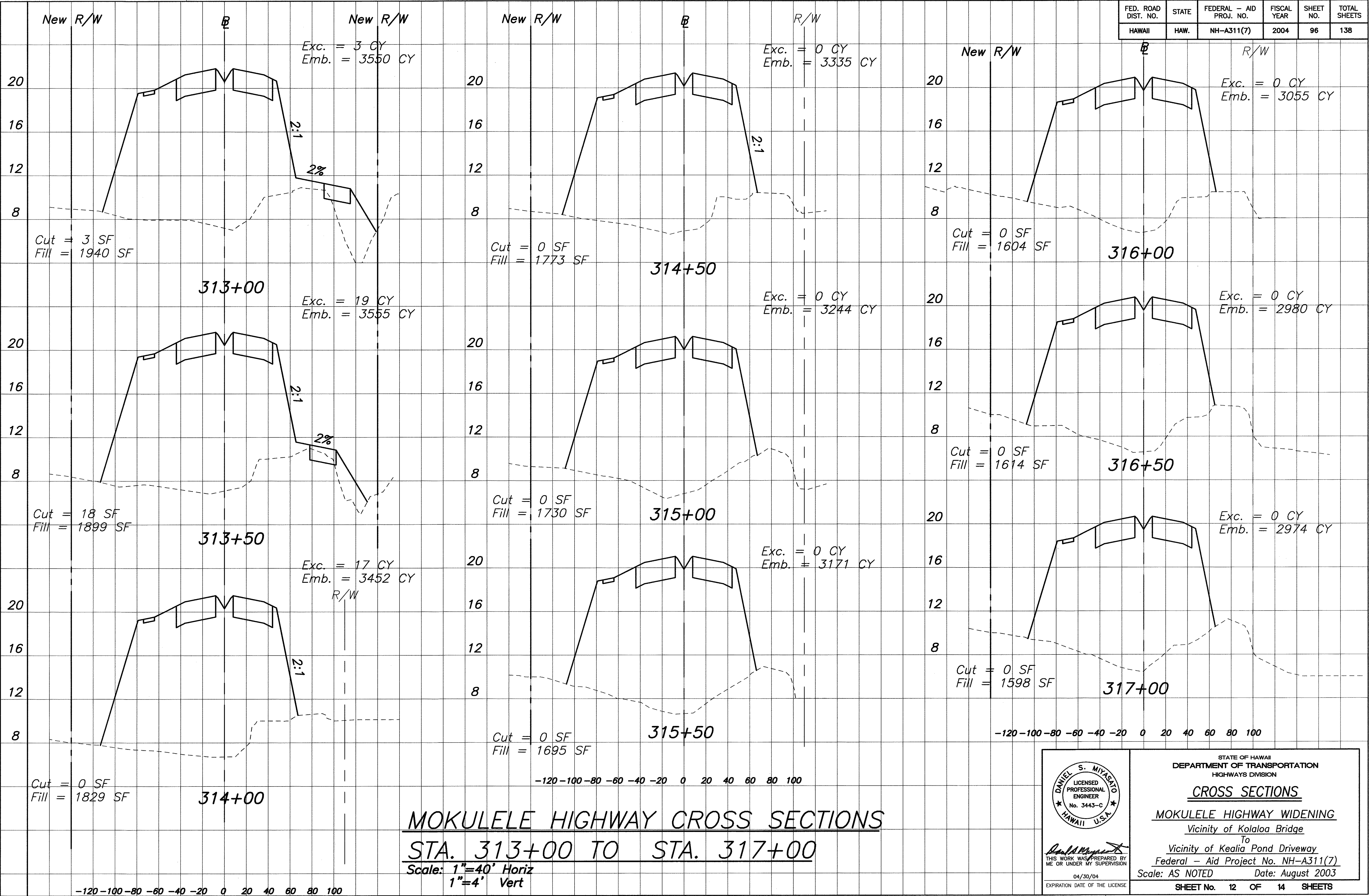
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: AS NOTED Date: August 2003

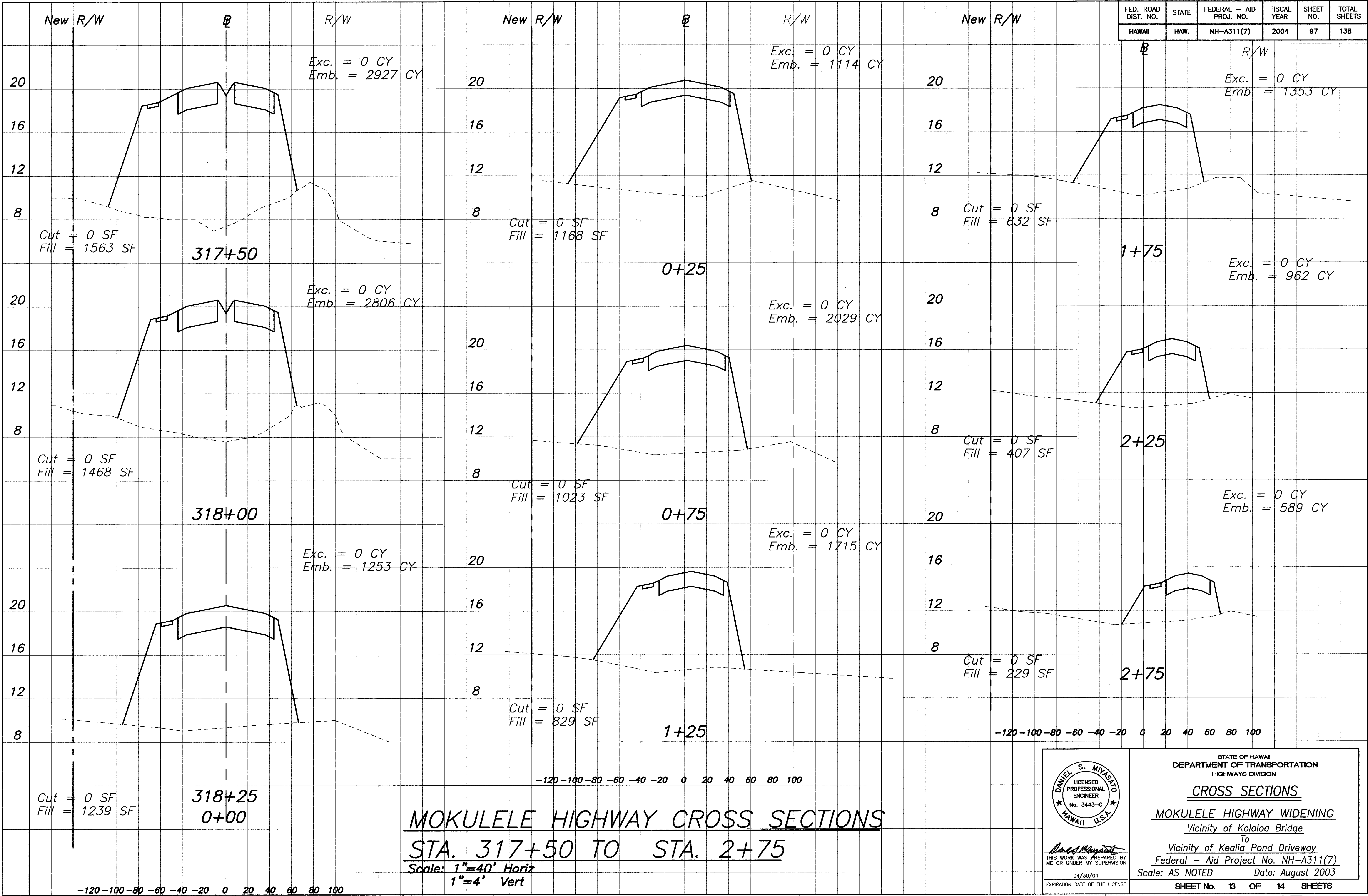
SHEET No. 11 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	96	138



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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	97	138



MOKULELE HIGHWAY CROSS SECTIONS **STA. 317+50 TO STA. 2+75** Scale: 1"=40' Horiz 1"=4' Vert

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
CROSS SECTIONS
 MOKULELE HIGHWAY WIDENING
 Vicinity of Kolaloa Bridge
 To
 Vicinity of Kealia Pond Driveway
 Federal - Aid Project No. NH-A311(7)
 Scale: AS NOTED Date: August 2003
 SHEET No. 13 OF 14 SHEETS

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 04/30/04
 EXPIRATION DATE OF THE LICENSE

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	98	138

