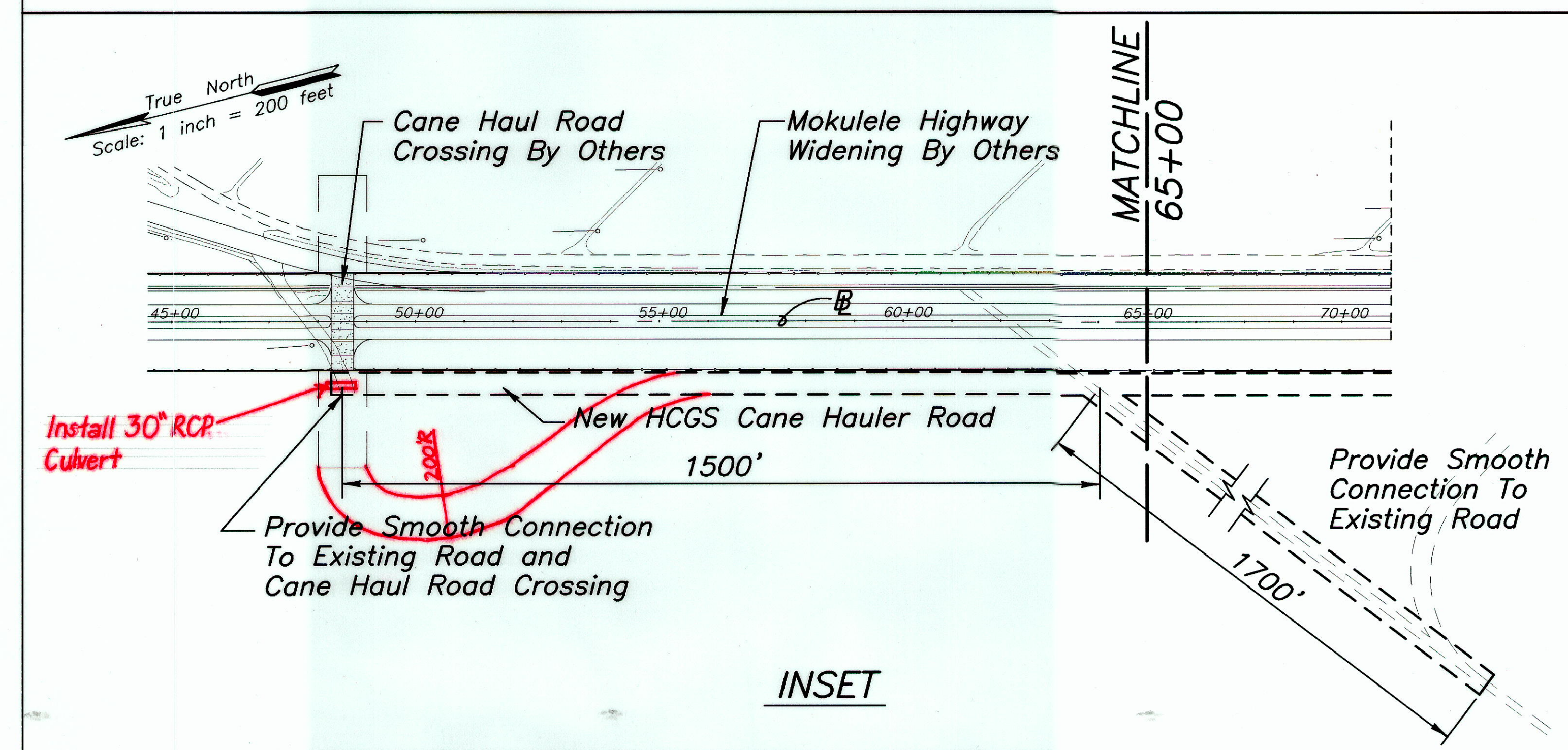
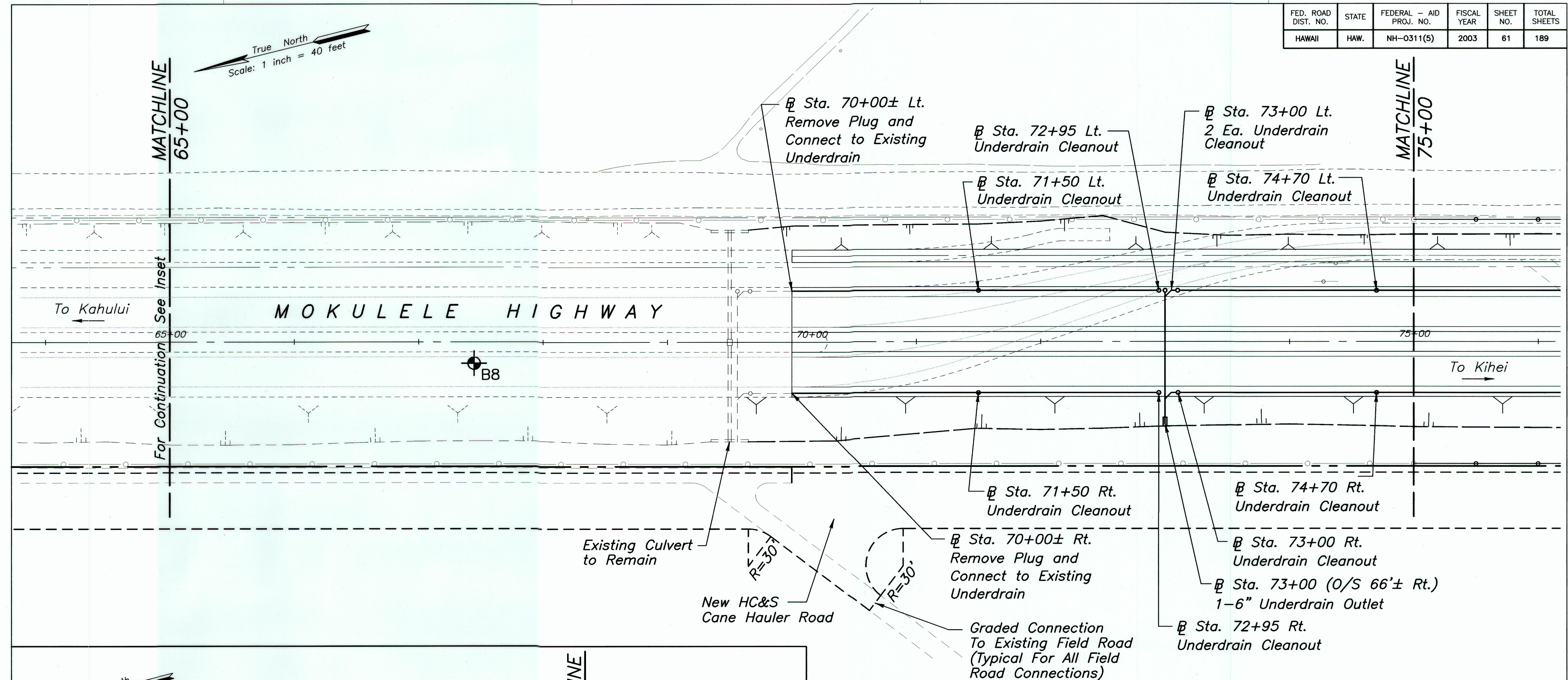


FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	61	189



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1"=40' Date: JUNE 2002

SHEET No. 1 OF 13 SHEETS

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

Daniel Miyasato
SATO & ASSOCIATES, INC.

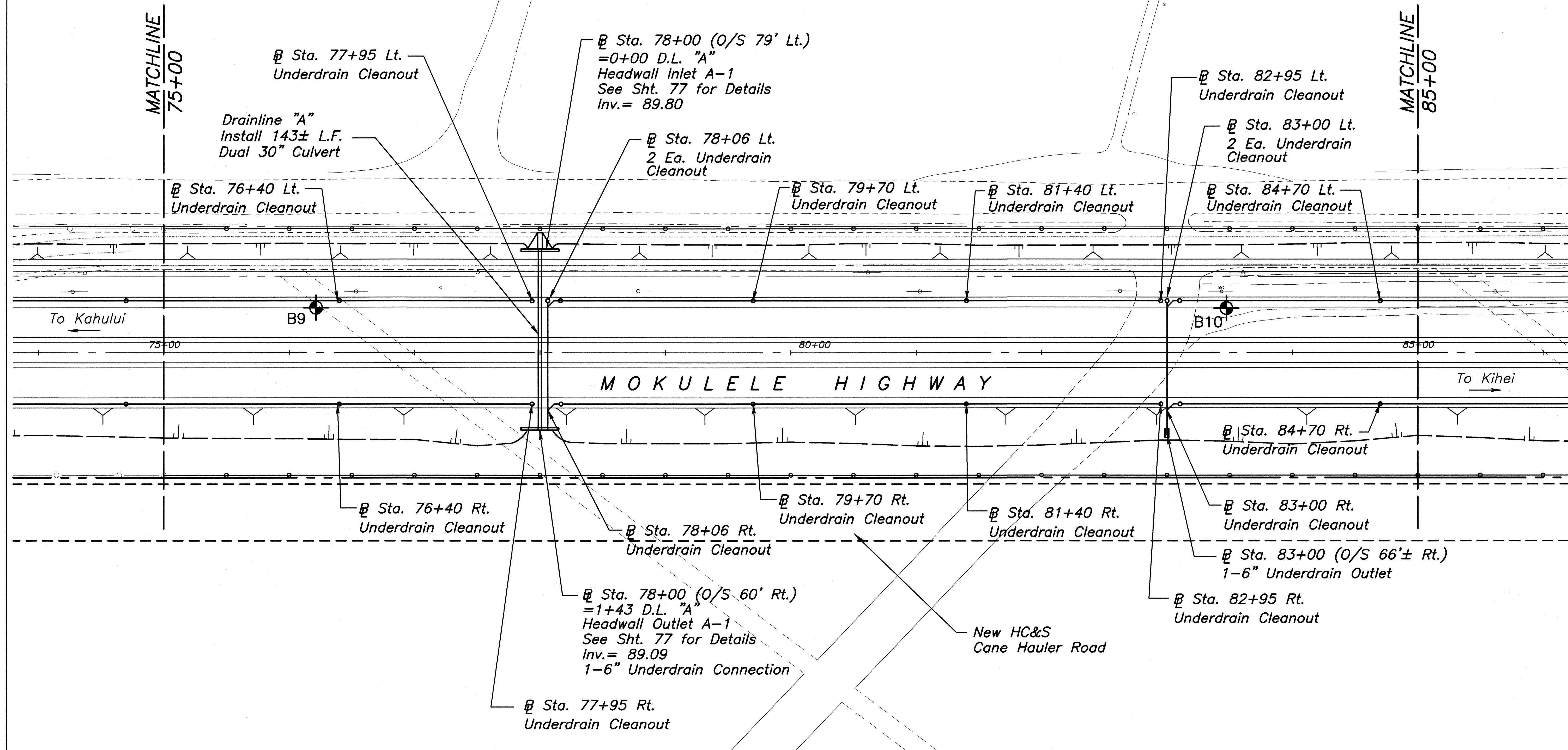
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

"AS-BUILT"

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	62	189

True North
Scale: 1 inch = 40 feet



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

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

SATO & ASSOCIATES, INC.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

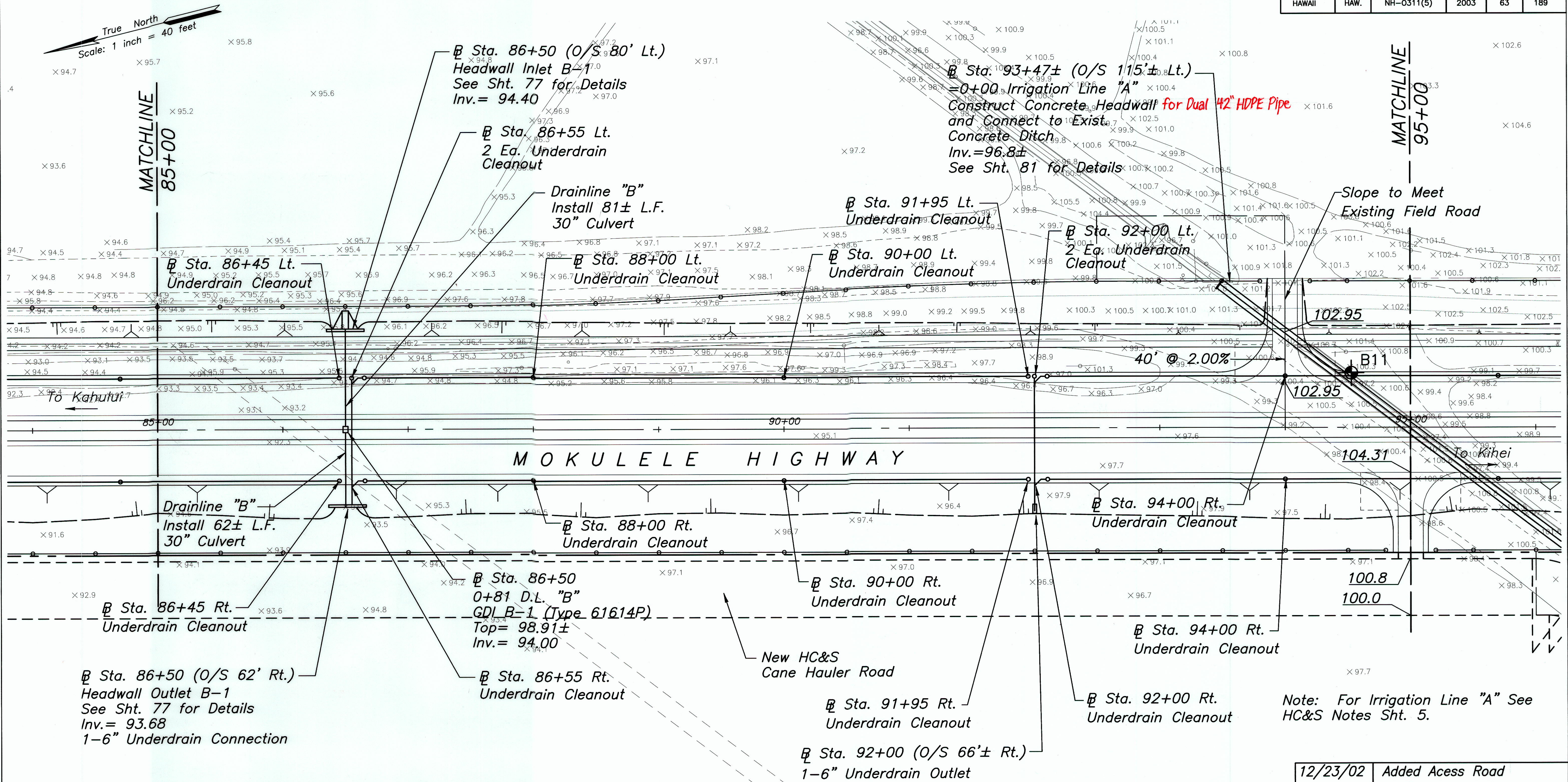
To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1"=40' Date: JUNE 2002

SHEET No. 2 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	63	189



Note: For Irrigation Line "A" See HC&S Notes Sht. 5.

12/23/02	Added Access Road at Baseline Station 94+00 and 95+00
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GRADING AND DRAINAGE PLAN
MOKULELE HIGHWAY WIDENING
Vicinity of Cane Haul Road
To Maui Humane Society
Federal - Aid Project No. NH-0311(5)
Scale: 1"=40'
Date: JUNE 2002
SHEET No. 3 OF 13 SHEETS



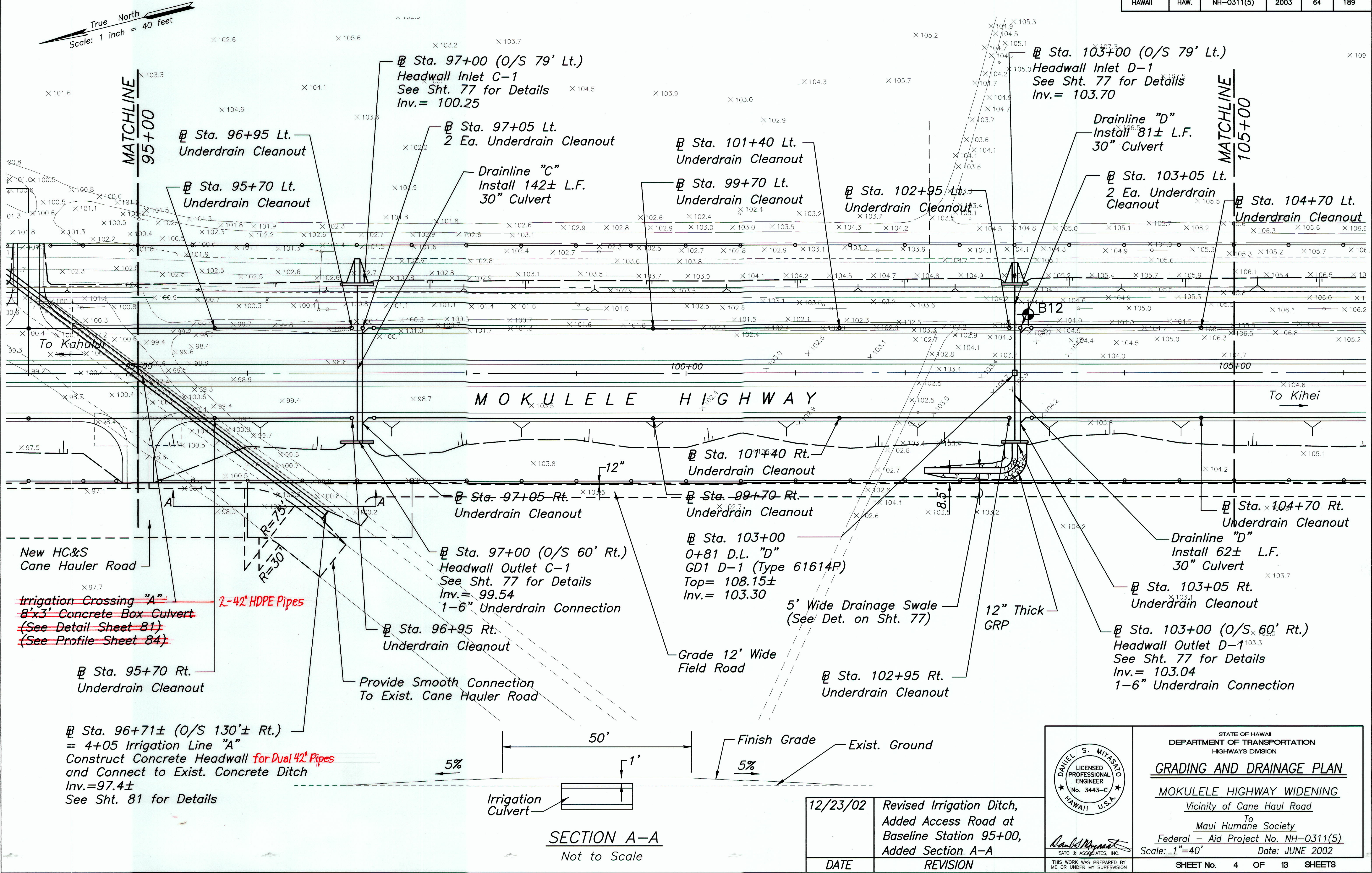
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"AS-BUILT"

ADD. 63

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	64	189



SECTION A-A
Not to Scale

12/23/02	Revised Irrigation Ditch, Added Access Road at Baseline Station 95+00, Added Section A-A
DATE	REVISION

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GRADING AND DRAINAGE PLAN
MOKULELE HIGHWAY WIDENING
Vicinity of Cane Haul Road
To
Maui Humane Society
Federal - Aid Project No. NH-0311(5)
Scale: 1"=40' Date: JUNE 2002
SHEET No. 4 OF 13 SHEETS

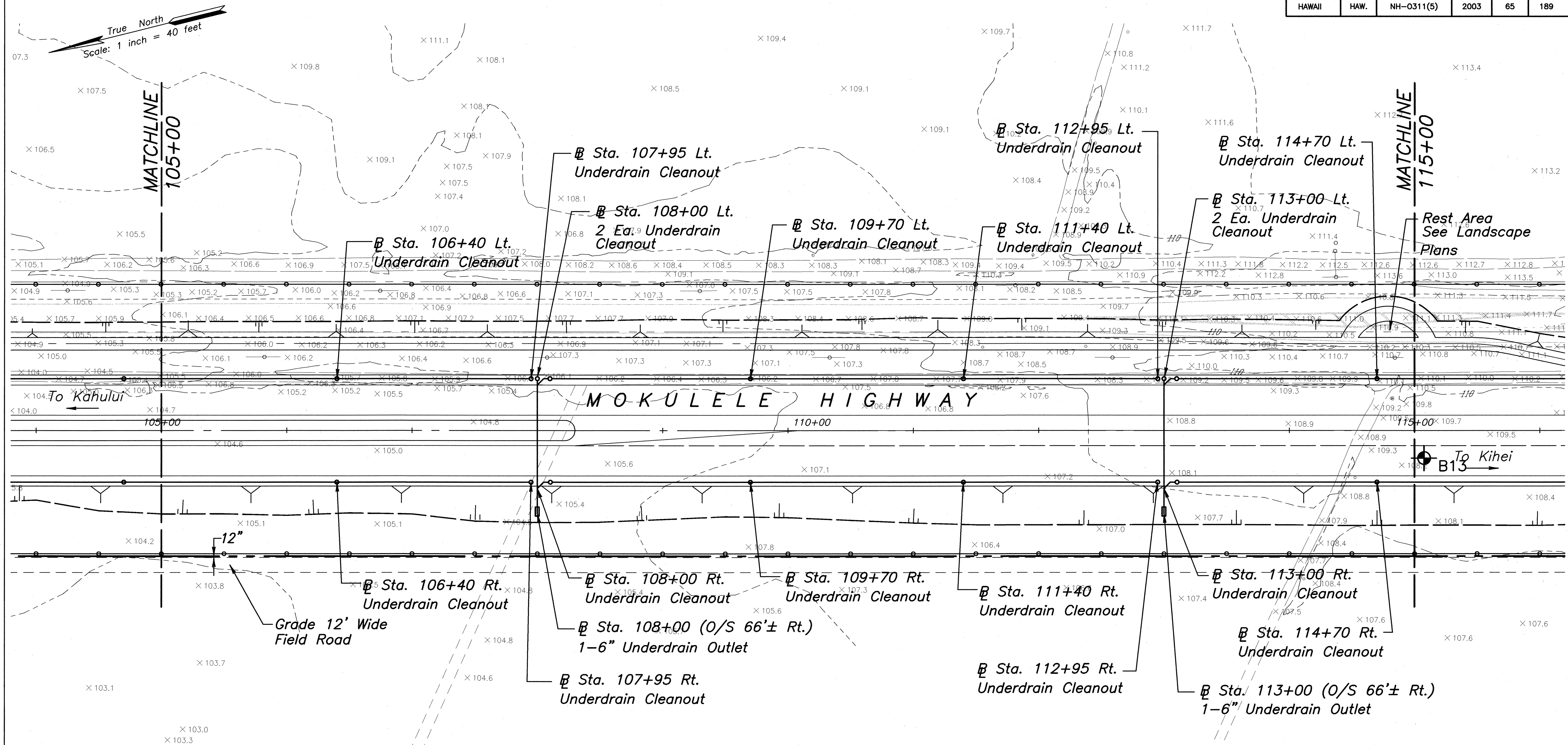
"AS-BUILT"

ADD. 64

PROJ. NO.: M9901.00
3/5/02
R:\moku\p2b\GRADING.dwg

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

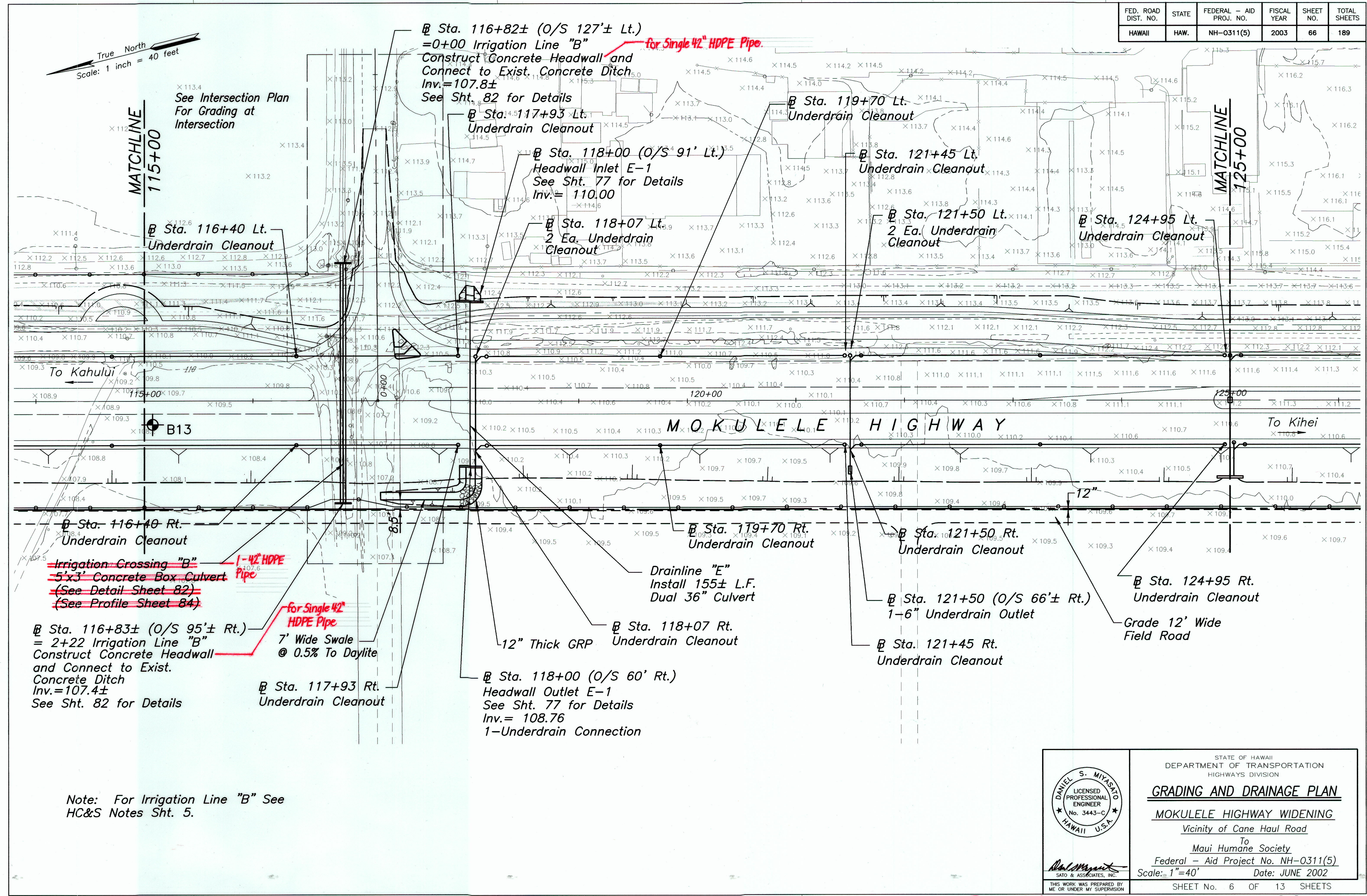
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	65	189



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GRADING AND DRAINAGE PLAN
MOKULELE HIGHWAY WIDENING
 Vicinity of Cane Haul Road
 To Maui Humane Society
 Federal - Aid Project No. NH-0311(5)
 Scale: 1"=40' Date: JUNE 2002
 SHEET No. 5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	66	189



Note: For Irrigation Line "B" See HC&S Notes Sht. 5.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1"=40' Date: JUNE 2002

SHEET No. 6 OF 13 SHEETS

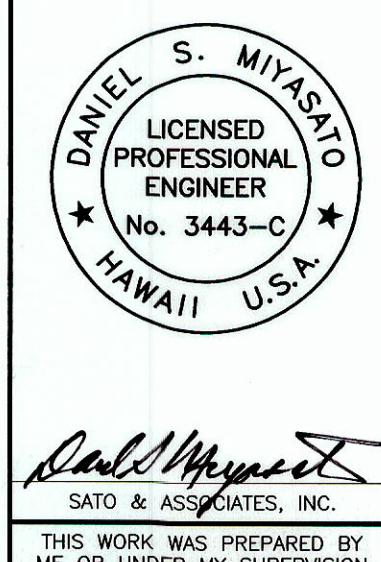
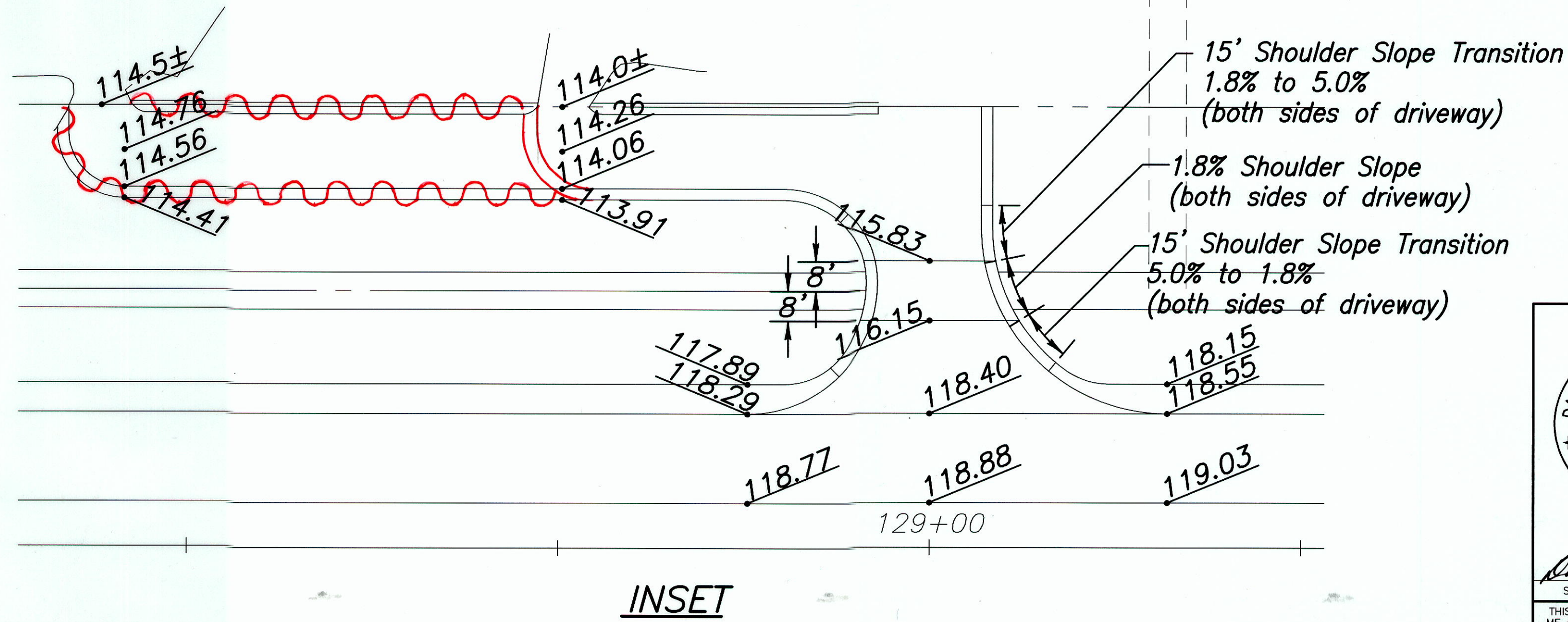
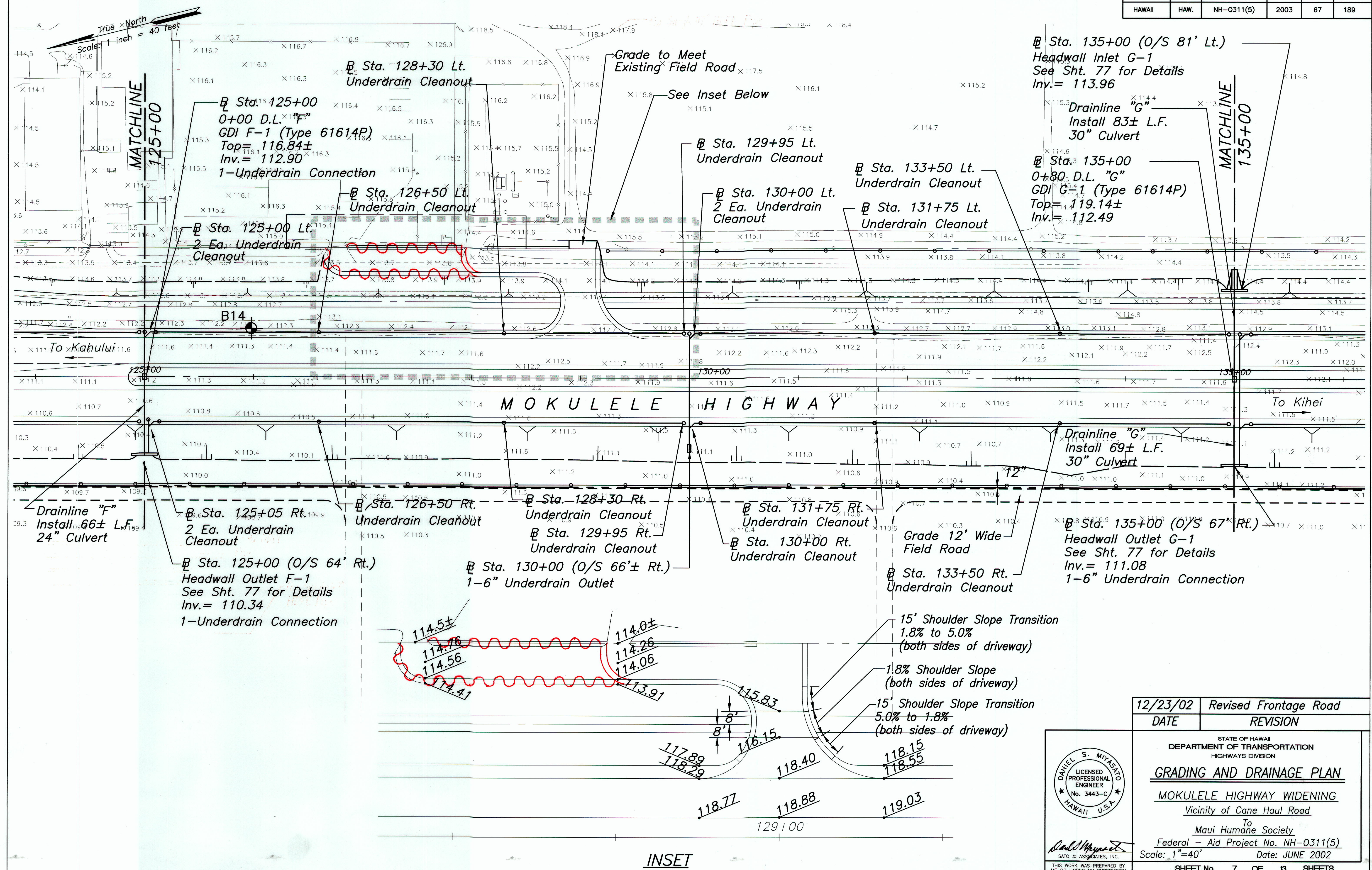
DANIEL S. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 3443-C
HAWAII U.S.A.

Real Mgmt.
SATO & ASSOCIATES, INC.

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"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	67	189



DATE	REVISION
12/23/02	Revised Frontage Road
	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GRADING AND DRAINAGE PLAN	
MOKULELE HIGHWAY WIDENING	
Vicinity of Cane Haul Road	
To Maui Humane Society	
Federal - Aid Project No. NH-0311(5)	
Scale: 1"=40' Date: JUNE 2002	
SHEET No. 7 OF 13 SHEETS	

"AS-BUILT"

ADD. 67

DATE	BY
	DESIGNED BY
	TRACED BY
	QUANTITIES BY
	CHECKED BY
	NO.

True North
Scale: 1 inch = 40 feet

MATCHLINE
135+00

Sta. 134+95 Lt. Underdrain Cleanout

Sta. 135+05 Lt. 2 Ea. Underdrain Cleanout

Sta. 137+00 Lt. Underdrain Cleanout

Sta. 138+95 Lt. Underdrain Cleanout

Sta. 139+00 Lt. 2 Ea. Underdrain Cleanout

Sta. 141+00 Lt. Underdrain Cleanout

Sta. 143+05 Lt. Underdrain Cleanout

Sta. 143+00 Lt. Underdrain Cleanout

Sta. 144+80 (O/S 115'± Lt.) = 0+00 Irrigation Line "C" Construct Concrete Headwall. Install 15± L.F. Concrete Irrigation Ditch and Connect to Existing Concrete Ditch Inv.=113.70 (Headwall) See Sht. 83 for Details

MOKULELE HIGHWAY

Grade 12' Wide Field Road

Sta. 134+95 Rt. Underdrain Cleanout

Sta. 135+05 Rt. Underdrain Cleanout

Sta. 137+00 Rt. Underdrain Cleanout

Sta. 138+95 Rt. Underdrain Cleanout

Sta. 139+00 (O/S 66'± Rt.) 1-6" Underdrain Outlet

Sta. 141+00 Rt. Underdrain Cleanout

Sta. 143+00 Rt. Underdrain Cleanout

Sta. 143+05 Rt. Underdrain Cleanout

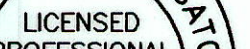
Sta. 144+80 (O/S 115'± Rt.) = 2+15 Irrigation Line "C" Construct Concrete Headwall and Connect to Conc. Ditch Inv.=111.64± See Sht. 83 for Details

Sta. 144+80± (O/S 9'± Rt.) = 2+15 Irrigation Line "C" Construct Concrete Headwall and Connect to Conc. Ditch Inv.=110.3±

Note: For Irrigation Line "C" and Ditch See HC&S Notes Sht. 5.

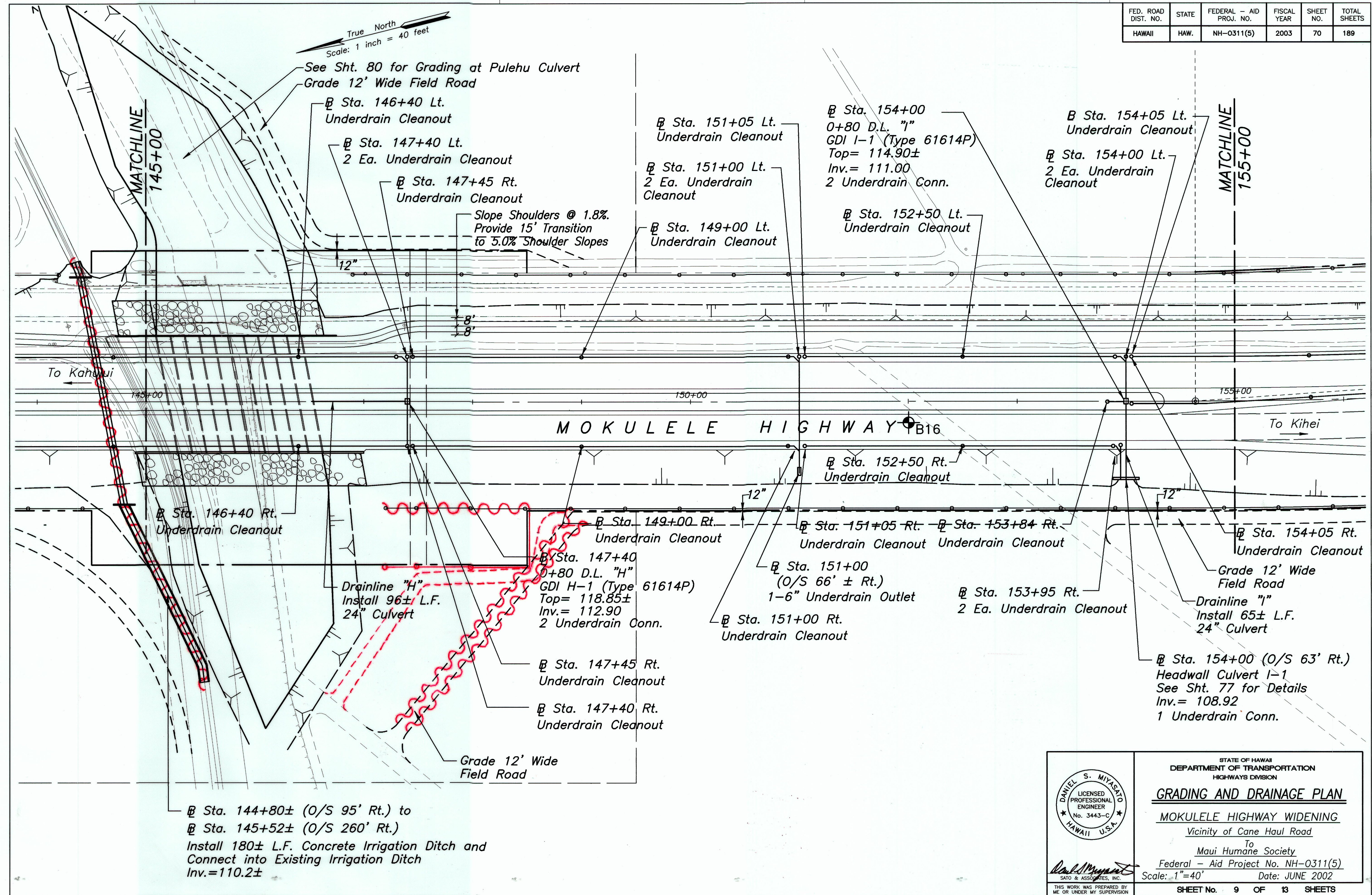
DANIEL S. MIYASHITA
LICENSED PROFESSIONAL ENGINEER
No. 3443-C
HAWAII U.S.

SATO & ASSOCIATES, INC.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>GRADING AND DRAINAGE PLAN</u> <u>MOKULELE HIGHWAY WIDENING</u> <u>Vicinity of Cane Haul Road</u> <u>To</u> <u>Maui Humane Society</u> <u>Federal - Aid Project No. NH-0311(5)</u> Scale: 1"=40' Date: JUNE 2002
 SATO & ASSOCIATES, INC.	SHEET No. 8 OF 13 SHEETS

68

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	70	189



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1"=40' Date: JUNE 2002

SHEET No. 9 OF 13 SHEETS

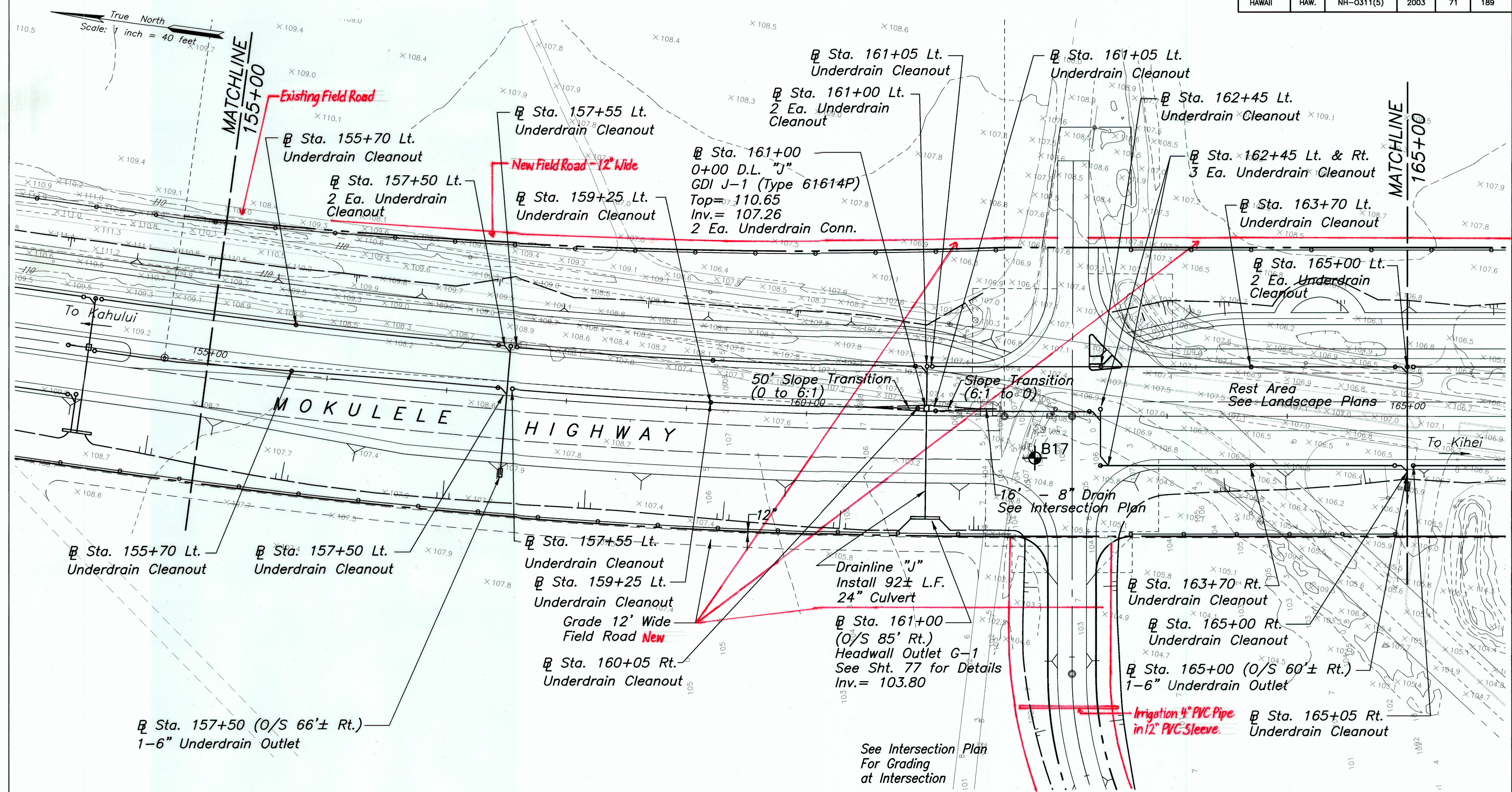
DANIEL S. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 3443-C
HAWAII U.S.A.

Daniel Miyasato
SATO & ASSOCIATES, INC.

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AS-BUILT

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	71	189



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1"=40' Date: JUNE 2002

SHEET No. 10 OF 13 SHEETS

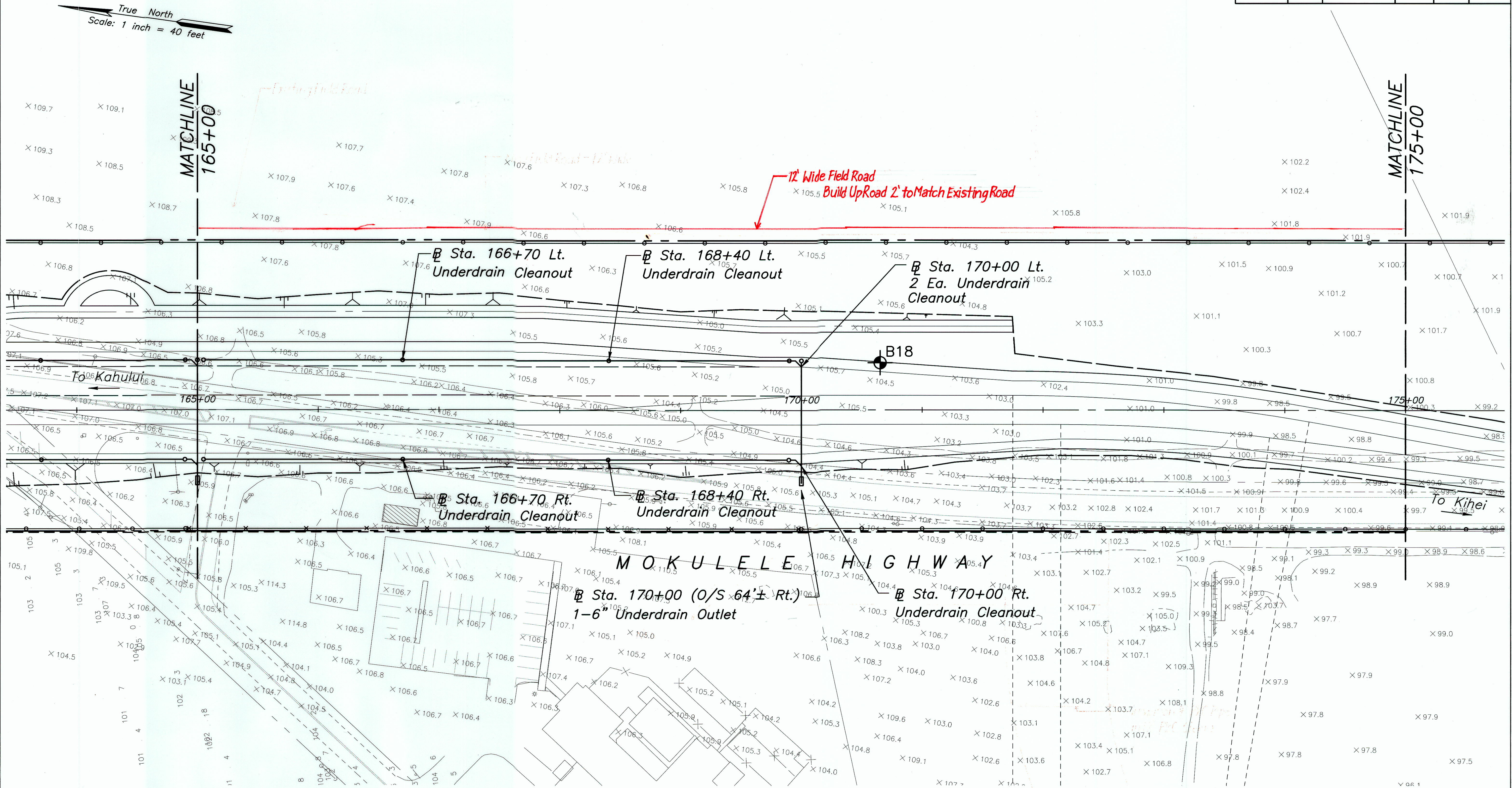
DANIEL S. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 3443-C
HAWAII U.S.A.

Dan Miyasato
SATO & ASSOCIATES, INC.

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"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	71	189



DATE	DATE
SYNOPSIS PLOTTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1"=40' Date: JUNE 2002

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

Daniel Miyashiro
SATO & ASSOCIATES, INC.
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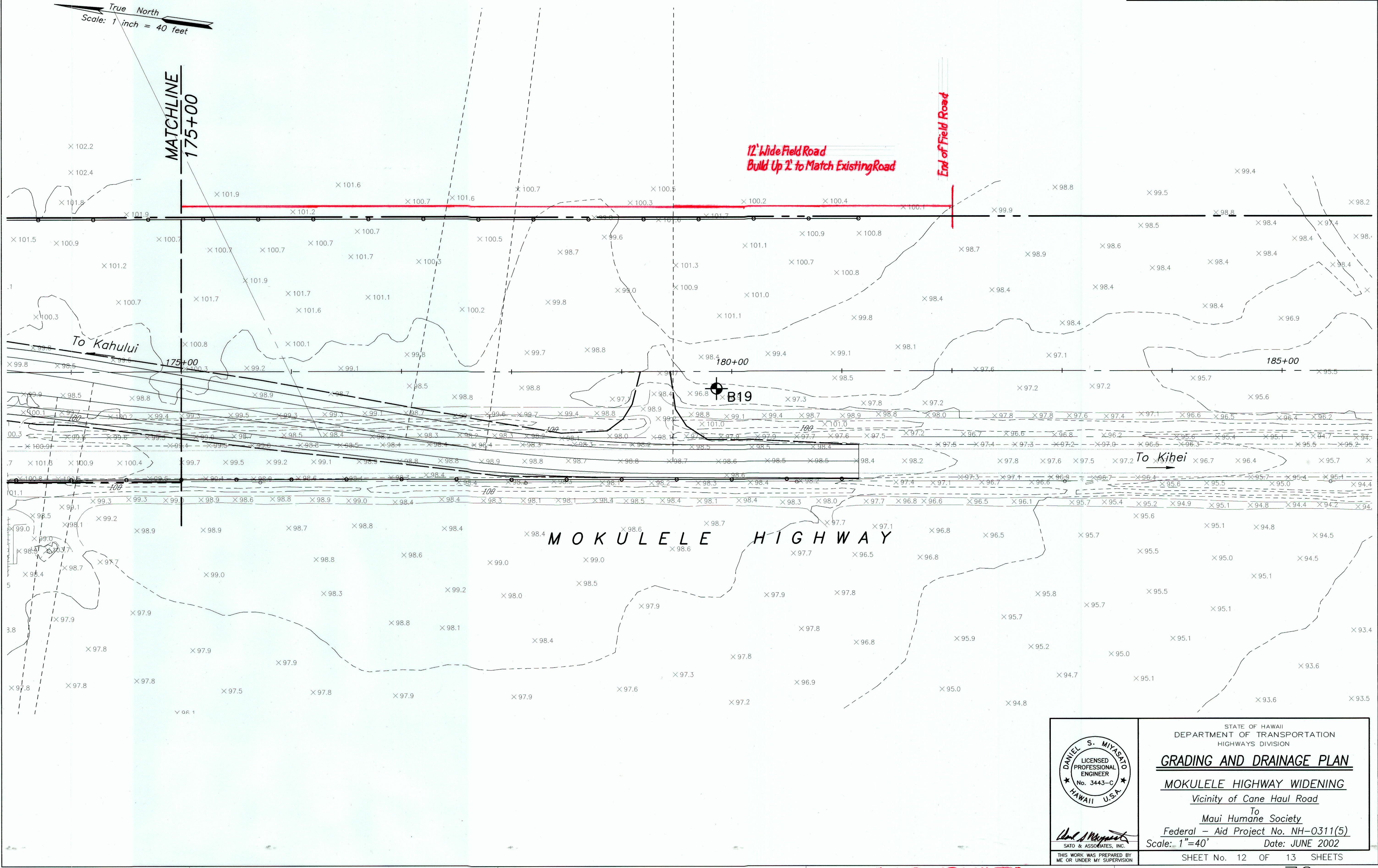
12/23/02	Added Chain Link Fence
DATE	REVISION

SHEET No. 11 OF 13 SHEETS

AS-BUILT

ADD. 71

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	73	189



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

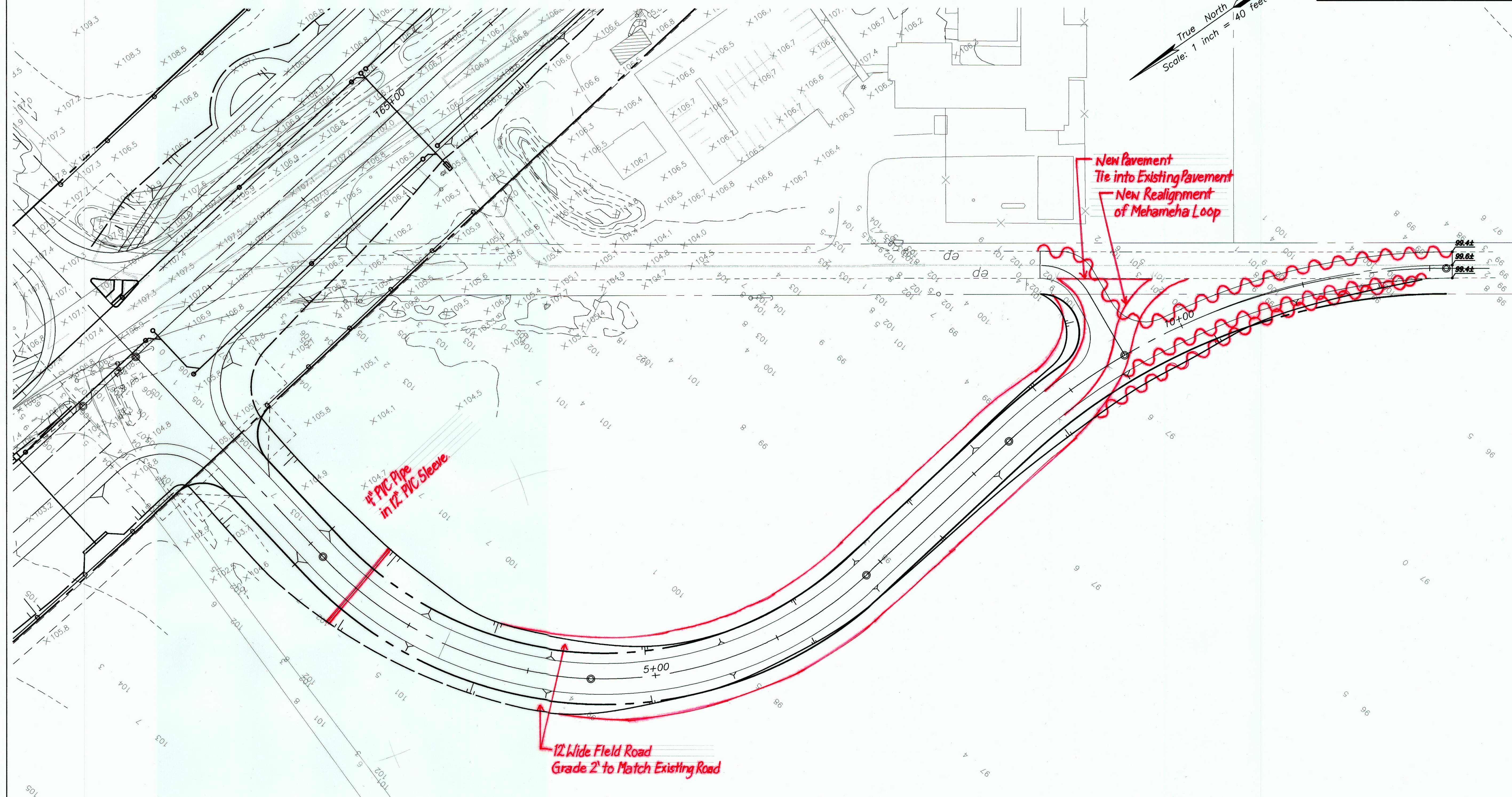


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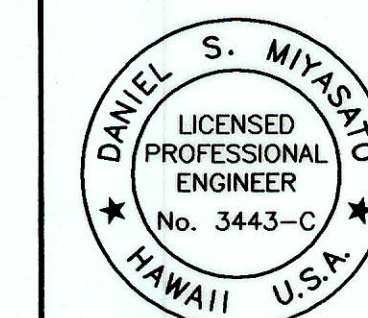
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	X	189

True North
Scale: 1 inch = 40 feet



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



Daniel Miyasato
SATO & ASSOCIATES, INC.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GRADING AND DRAINAGE PLAN
MOKULELE HIGHWAY WIDENING
Vicinity of Cane Haul Road
To
Maui Humane Society
Federal - Aid Project No. NH-0311(5)
Scale: 1"=40' Date: JUNE 2002
SHEET No. 13 OF 13 SHEETS

"AS-BUILT"