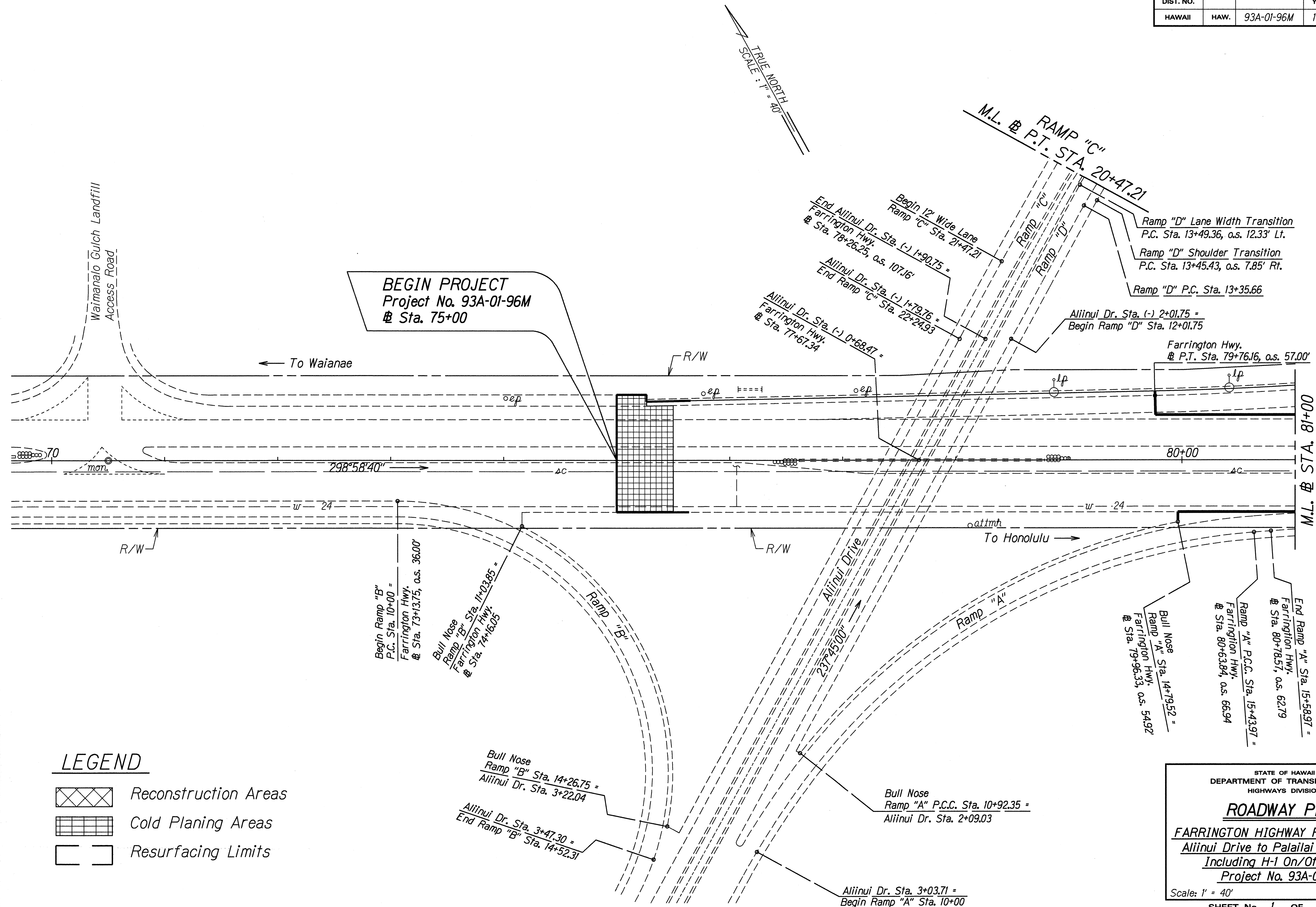
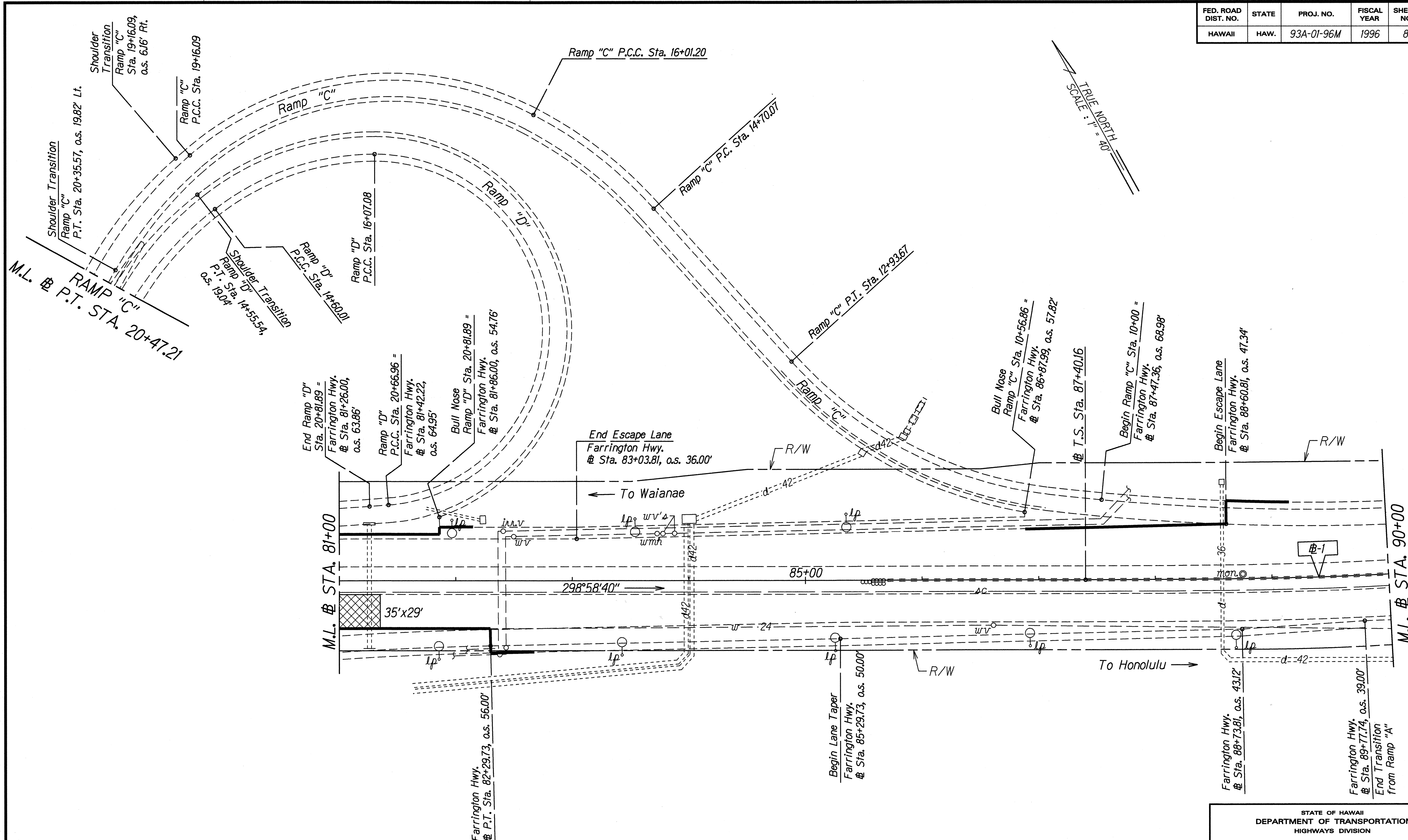


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	7	32



ORIGINAL PLAN	DATE	12/19/95
SURVEY PLOTTED BY		
DRAWN BY	J. Matsunami	
DESIGNED BY	C. Yamaseki	
CHECKED BY		
NOTED BY	q44/son	
DATE		
BY	N. Girard	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	8	32



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY J. Matsunami	11-24-96
DESIGNED BY C. Yamashiki		
CHECKED BY		
DATE		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

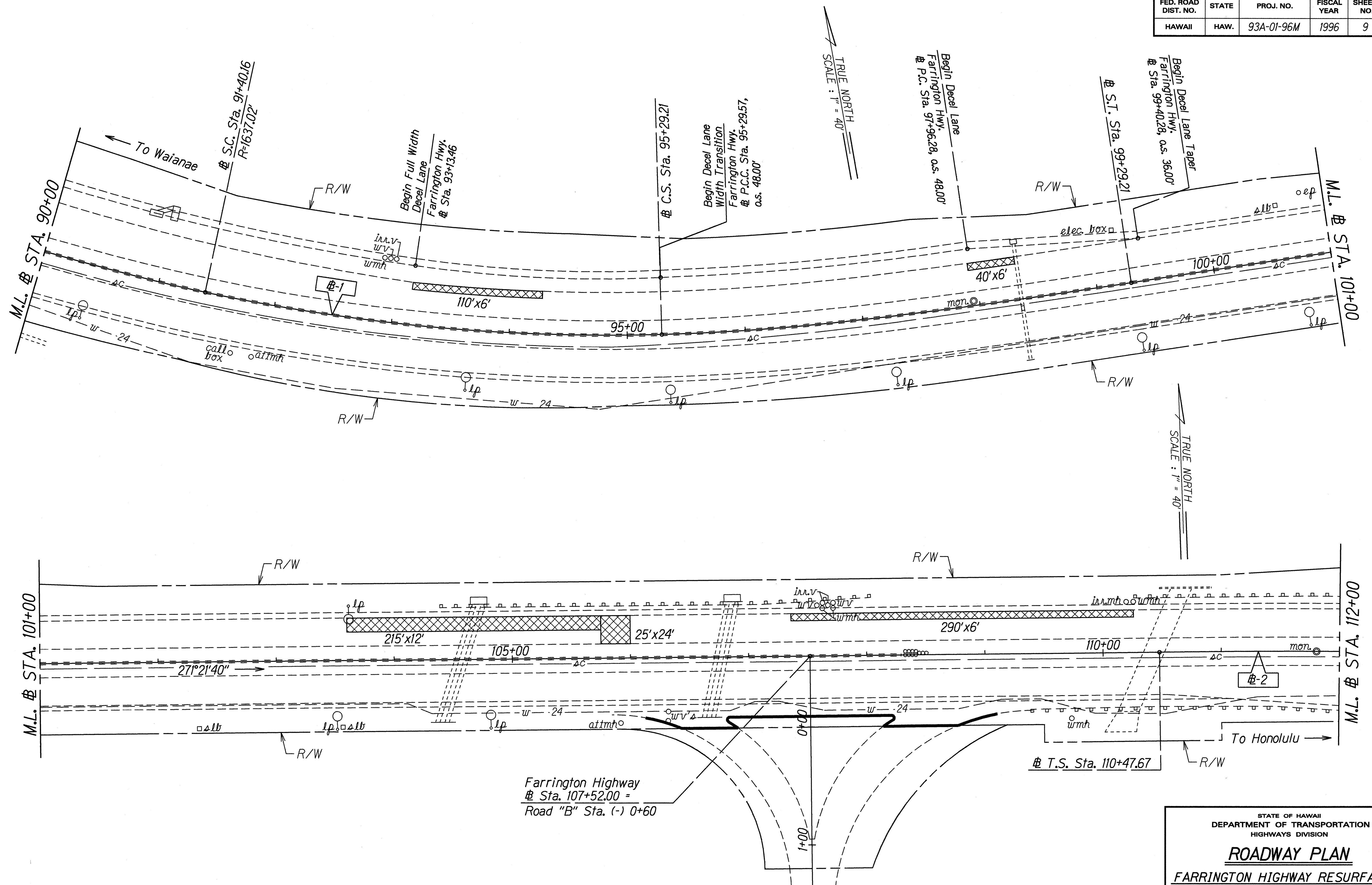
ROADWAY PLAN

FARRINGTON HIGHWAY RESURFACING
Aliinui Drive to Palailai Interchange,
Including H-1 On/Off Ramps
Project No. 93A-01-96M

Scale: 1" = 40' Date: Sept., 1995

SHEET No. 2 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	9	32



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY <i>J. Matsunami</i>	<i>11-24-56</i>
<i>dd4, jason</i>	DESIGNED BY <i>C. Yamasaki</i>	
<i>61arap3</i>	QUANTITIES BY	
	CHECKED BY <i>S. 61arap3</i>	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

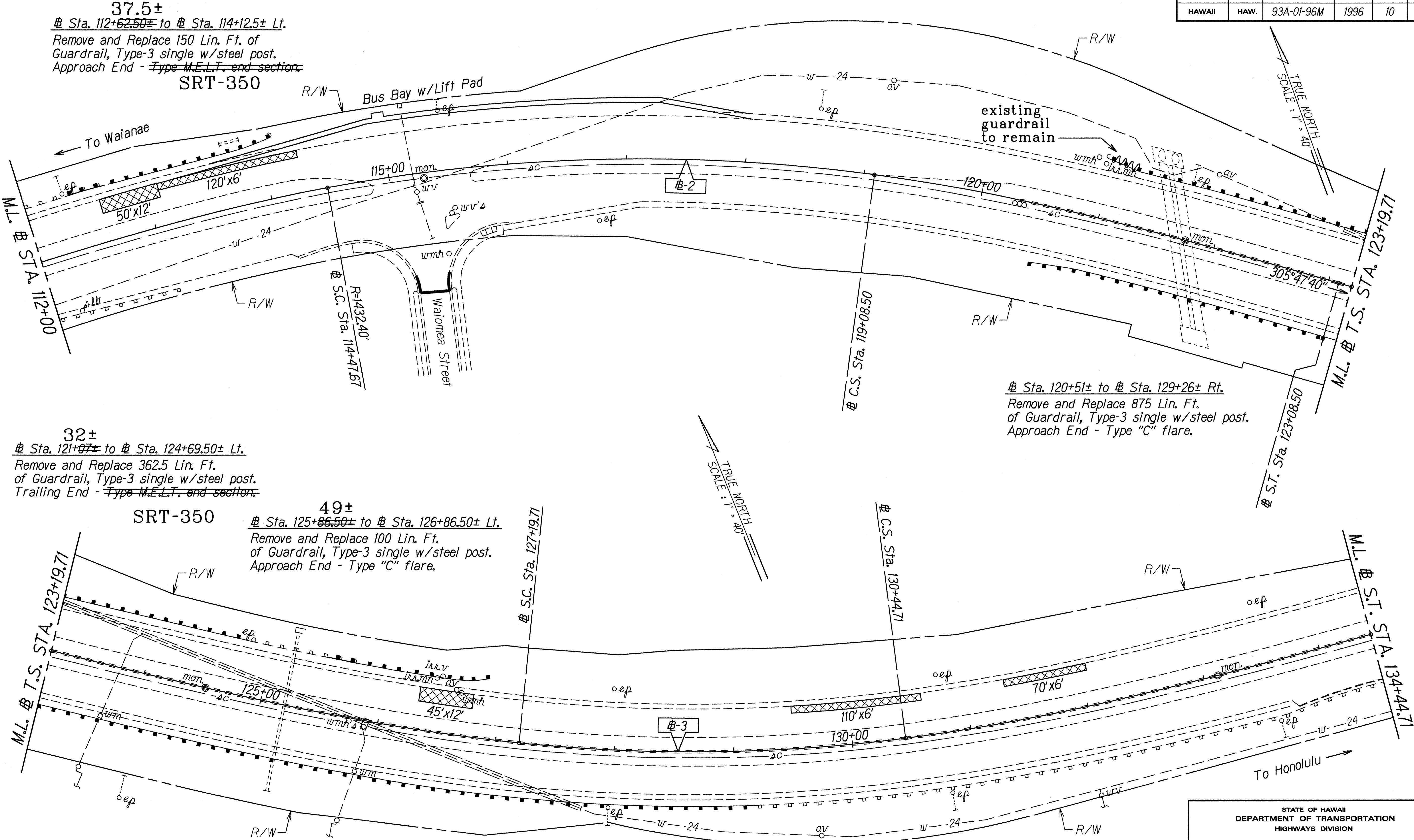
ROADWAY PLAN

FARRINGTON HIGHWAY RESURFACING
Aaliunui Drive to Palailai Interchange,
Including H-1 On/Off Ramps
Project No. 93A-01-96M

Scale: 1" = 40' Date: Sept., 1995

SHEET No. 3 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	10	32



ORIGINAL PLAN	DATE
12-28-96	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
FARRINGTON HIGHWAY RESURFACING
Aliinui Drive to Palailai Interchange,
Including H-1 On/Off Ramps
Project No. 93A-01-96M

Scale: 1" = 40'
Date: Sept., 1995
SHEET No. 4 OF 9 SHEETS

Section 1: Station 134+44.71 to 142+79.63

57± 136+57±
 # Sta. 134+63± to # Sta. 136+13± Lt.
 Remove and Replace 350 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "C" flare, ET-2000
 Trailing End - Type "F" flare.

New Shoulder.
 See Detail on
 Plan Sheet No. 6.

To Waianae

R/W

150'x12'

135+00

276°47'40"

mon.

140+00

40'x12'

Bus Bay w/Lift Pad

Laa Loa Street

135+75±
 # Sta. 133+71± to
 # Sta. 138+36± Rt.
 Remove and Replace
 A.C. Curb

Sta. 137+21± to # Sta. 137+71± Rt.
 Remove and Replace 50 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.

T.S. Sta. 139+79.63

S.C. Sta. 142+79.63
 R=2291.83'

Section 2: Station 143+98 to 164+46

73± 148+60.5±
 # Sta. 143+98± to # Sta. 147+98± Lt.
 Remove and Replace 400 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "G" w/rounded end.
 Trailing End - Type "F" flare.

New Shoulder.
 See Detail on
 Plan Sheet No. 6.

100'x6'

150+00

30°39'00"

To Honolulu

S.T. Sta. 145+00

C.S. Sta. 149+73.85

144+62± 50±
 # Sta. 143+58.5± to # Sta. 164+46± Rt.
 Remove and Replace 2087.5 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "C" flare.
 Trailing End - Type "G" w/rounded end.
 ET-2000

Project Details:

- Station 134+63± to 138+43± Lt.**: Remove and Replace 350 Lin. Ft. of Guardrail, Type-3 single w/steel post. Approach End - Type "C" flare, ET-2000. Trailing End - Type "F" flare.
- Station 135+75± to 138+36± Rt.**: Remove and Replace A.C. Curb.
- Station 137+21± to 137+71± Rt.**: Remove and Replace 50 Lin. Ft. of Guardrail, Type-3 single w/steel post.
- Station 143+98± to 147+98± Lt.**: Remove and Replace 400 Lin. Ft. of Guardrail, Type-3 single w/steel post. Approach End - Type "G" w/rounded end. Trailing End - Type "F" flare.
- Station 143+58.5± to 164+46± Rt.**: Remove and Replace 2087.5 Lin. Ft. of Guardrail, Type-3 single w/steel post. Approach End - Type "C" flare. Trailing End - Type "G" w/rounded end, ET-2000.

Other Features and Annotations:

- New Shoulder**: See Detail on Plan Sheet No. 6.
- Bus Bay w/Lift Pad**
- Laa Loa Street**
- exist. coral road**
- Aband. sig. lt. box**
- Mon.** (Monitoring points)
- W-24** (Waterway)
- 150'x12'** and **40'x12'** (Dimensions)
- Scale**: 1" = 40'
- True North** (indicated by arrows)
- Direction**: To Waianae (left), To Honolulu (right)

57± 136+57±
~~# Sta. 134+63± to # Sta. 138+43± Lt.~~
 Remove and Replace 350 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "C" flare, E.T-2000
 Trailing End - Type "F" flare.

New Shoulder.
 See Detail on
 Plan Sheet No. 6.

← To Waianae

R/W

135+00 150'x12'

276°47'40"

mon

140+00

aband. sig. lt. box

40'x12'

135+75±
~~# Sta. 133+71± to~~
~~# Sta. 138+36± Rt.~~
 Remove and Replace
 A.C. Curb

Sta. 137+21± to # Sta. 137+71± Rt.
 Remove and Replace 50 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.

R/W

Laa Loa Street

140+00

139+79.63
 T.S. Sta. 139+79.63

exist. coral road

73± 148+60.5±
~~# Sta. 143+98± to # Sta. 147+98± Lt.~~
 Remove and Replace 400 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "G" w/rounded end.
 Trailing End - Type "F" flare.

R/W

100'x6'

24

#-4

New Shoulder.
 See Detail on
 Plan Sheet No. 6.

150+00

C.S. Sta. 149+73.85

144+62±
~~# Sta. 143+58.5± to # Sta.~~
 Remove and Replace 2087.5
 of Guardrail, Type-3 single
 Approach End - Type "C" f
 Trailing End - Type "G" w/

57± 136+57±
 # Sta. 134+63± to # Sta. 136+43± Lt.
 Remove and Replace 350 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "C" flare, ET-2000
 Trailing End - Type "F" flare.

New Shoulder.
 See Detail on
 Plan Sheet No. 6.

To Waianae

R/W

135+00 150'x12'

276°47'40"

mon.

140+00

40'x12'

Bus Bay w/Lift Pad

135+75±
 # Sta. 133+71± to
 # Sta. 138+36± Rt.
 Remove and Replace
 A.C. Curb

Sta. 137+21± to # Sta. 137+71± Rt.
 Remove and Replace 50 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.

Laa Loa Street

T.S. Sta. 139+79.63

S.C. Sta. 142+79.63
 R=2291.83'

TRUE NORTH
 SCALE: 1" = 40'

73± 148+60.5±
 # Sta. 143+98± to # Sta. 147+98± Lt.
 Remove and Replace 400 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "G" w/rounded end.
 Trailing End - Type "F" flare.

R/W

100'x6'

24

150+00

30°39'00"

To Honolulu

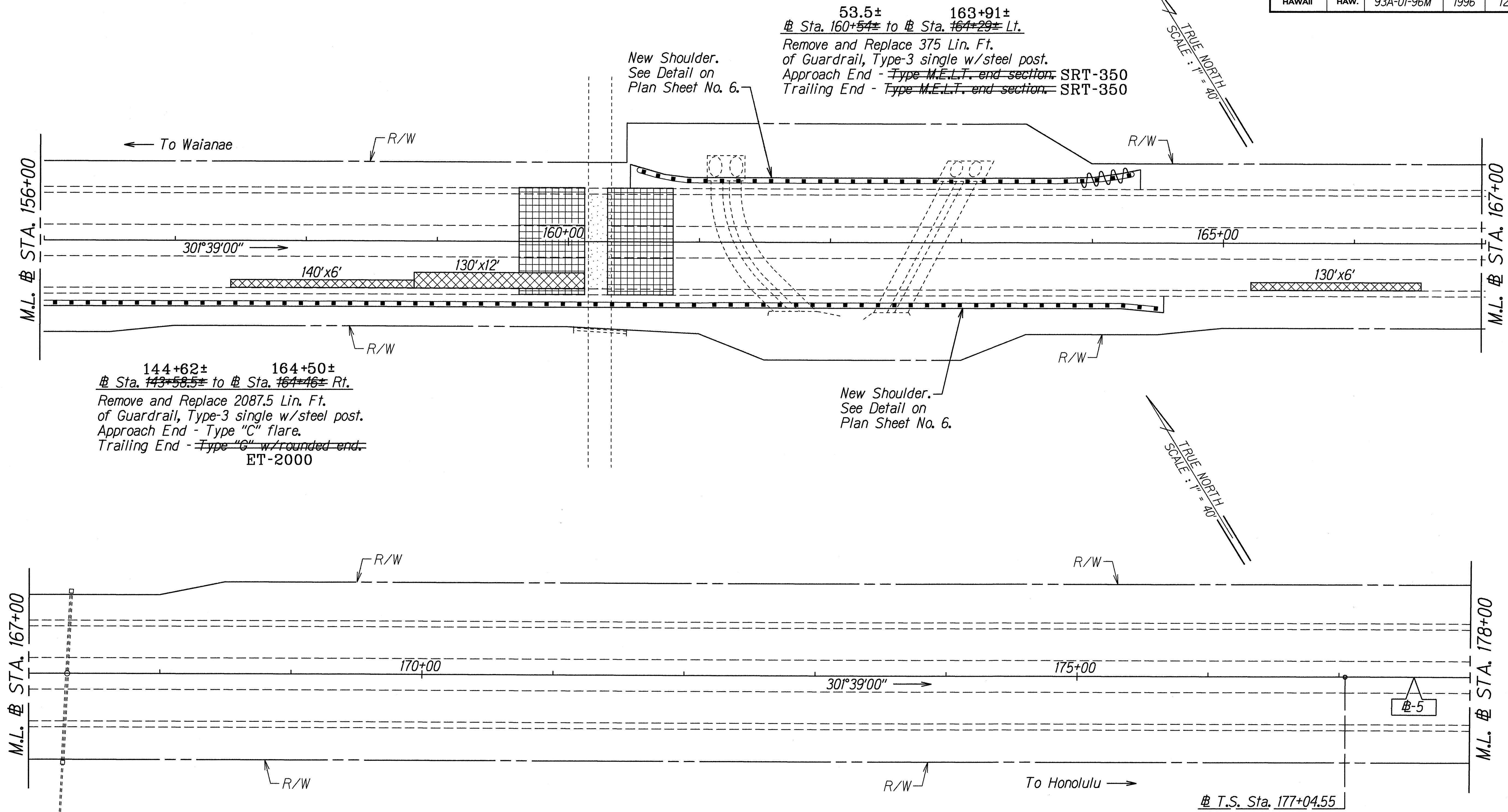
New Shoulder.
 See Detail on
 Plan Sheet No. 6.

C.S. Sta. 149+73.85

144+62± 50±
 # Sta. 143+58.5± to # Sta. 164+46± Rt.
 Remove and Replace 2087.5 Lin. Ft.
 of Guardrail, Type-3 single w/steel post.
 Approach End - Type "C" flare.
 Trailing End - Type "G" w/rounded end.
 ET-2000

S.T. Sta. 152+73.85

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	12	32



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

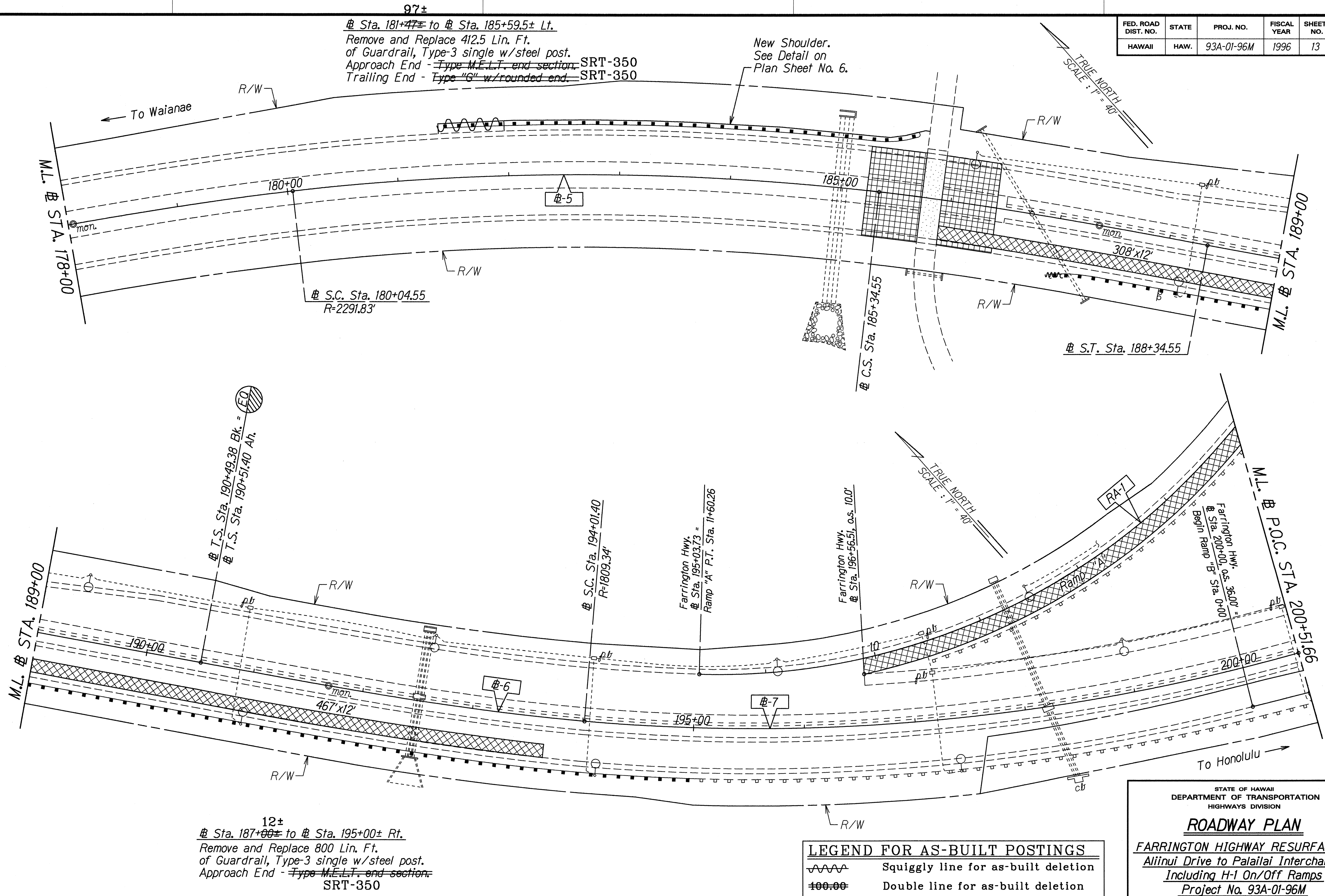
FARRINGTON HIGHWAY RESURFACING
Aliinui Drive to Palailai Interchange,
Including H-1 On/Off Ramps
Project No. 93A-01-96M

Scale: 1" = 40' Date: Sept., 1995

SHEET No. 6 OF 9 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY J. Matsunami	12-29-96
NOTE BOOK	CHECKED BY	
004, Jason		
N. 6/10/96		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	13	32



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

FARRINGTON HIGHWAY RESURFACING
 Aliinui Drive to Palailai Interchange,
 Including H-1 On/Off Ramps
 Project No. 93A-01-96M

Scale: 1" = 40' Date: Sept., 1995

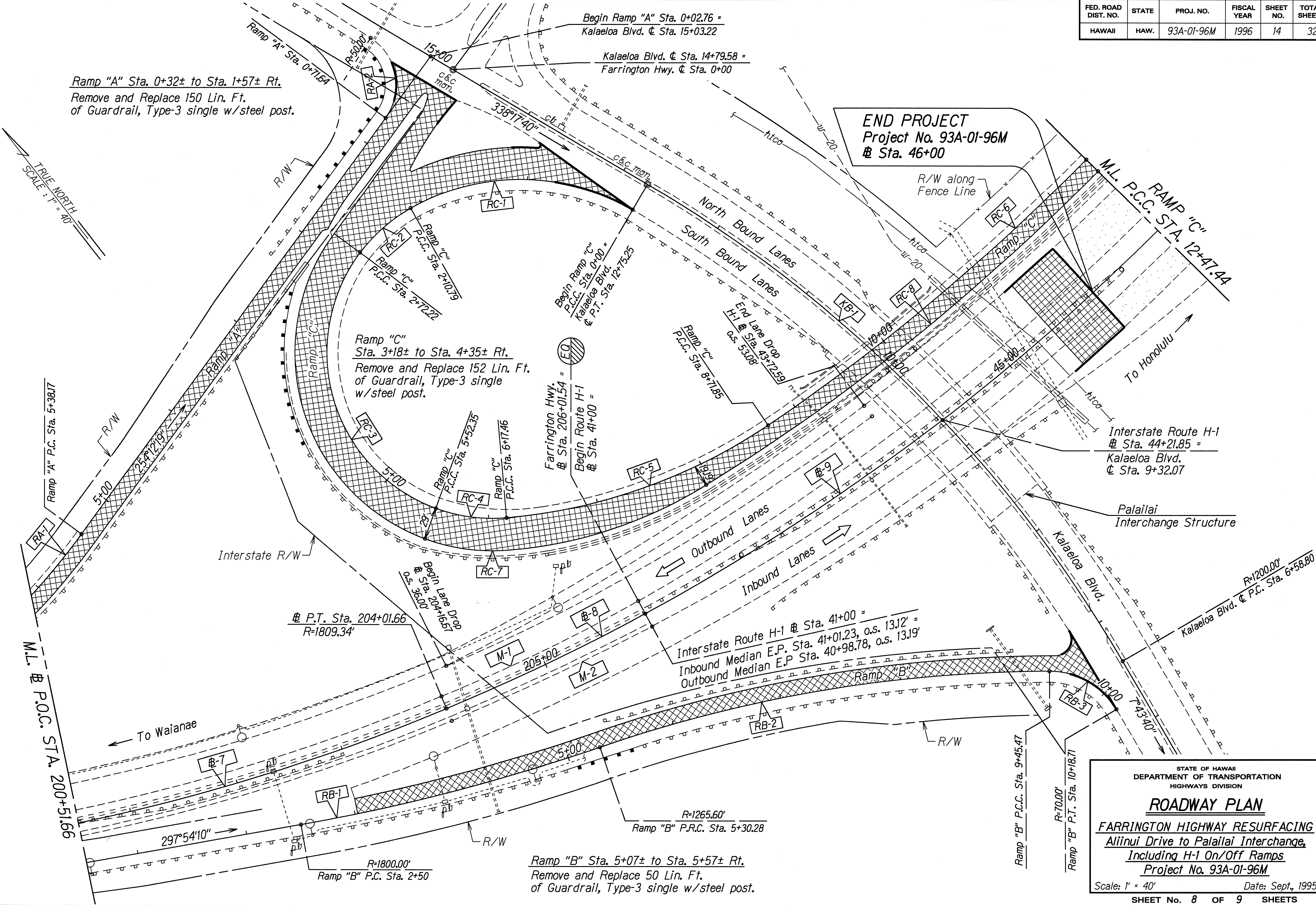
SHEET No. 7 OF 9 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
PLAN	DATE	
NOTE BOOK	DRAWN BY	
444/ason	REVIEWED BY	
N. 6/ardip	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-96M	1996	14	32

Ramp "A" Sta. 0+32± to Sta. 1+57± Rt.
Remove and Replace 150 Lin. Ft.
of Guardrail, Type-3 single w/steel post.

END PROJECT
Project No. 93A-01-96M
Sta. 46+00



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	11-28-96
DRAWN BY	J. Nakamura
DESIGNED BY	C. Yamashita
CHECKED BY	044/ason
NOTED BY	044/ason
CHECKED BY	044/ason

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
FARRINGTON HIGHWAY RESURFACING
Aliinui Drive to Palailai Interchange,
Including H-1 On/Off Ramps
Project No. 93A-01-96M

Scale: 1" = 40'
Date: Sept., 1995

SHEET No. 8 OF 9 SHEETS

Plan view of the proposed H-1 Expressway and Ramp "C". The diagram shows the alignment of the expressway and the ramp, with stationing from 12+47.44 to 56+00. Key features include:

- Ramp "C":** A cross-hatched area connecting the H-1 Expressway to the existing H-1 Mainline.
- H-1 Outbound Lanes:** Indicated by a dashed line and an arrow pointing left towards Waianae.
- H-1 Inbound Lanes:** Indicated by a dashed line and an arrow pointing right towards Honolulu.
- Stationing:** Key stations marked include 12+47.44 (M.L. P.C.C. STA.), 15+00, 20+00, 50+00, and 55+00.
- Right-of-Way (R.O.W.):** Shown as a solid line with cross-ticks.
- Proposed Right-of-Way (P.R.O.W.):** Shown as a dashed line.
- Existing Right-of-Way (E.R.O.W.):** Shown as a dotted line.
- Labels:** "To Waianae", "To Honolulu", "Ramp 'C'", "RC-10", "RC-11", and "Ø-9".
- Scale and Orientation:** A north arrow indicates "TRUE NORTH" with a scale of 1" = 40'. A vertical line at station 54+11.03 is labeled "H-1 Ø Sta. 54+11.03 o.s. 54.00'".
- End Ramp "C":** P.T. Sta. 21+31.65 = H-1 Ø Sta. 56+00 o.s. 54.00'.

FED. ROAD DIST. NO.	STATE	PROJ. NO.
HAWAII	HAW.	93A-01-96M

<i>Dc</i>	03°30'00"	04°00'00"	04°00'00"	02°30'00"	02°30'00"	03°10'00"
<i>R</i>	1637.02'	1432.40'	1432.40'	2291.83'	2291.83'	1809.34'
Δ	27°37'00"	34°26'00"	29°00'00"	24°51'20"	20°45'00"	-- -- --
<i>Ls</i>	400.00'	400.00'	400.00'	300.00'	300.00'	350.00'
<i>Ts</i>	603.25'	645.18'	571.51'	655.40'	569.88'	788.33'
<i>Es</i>	52.92'	72.10'	51.90'	56.70'	39.80'	-- -- --
<i>θs</i>	07°00'00"	08°00'00"	08°00'00"	03°45'00"	03°45'00"	05°32'30"
Δs	13°37'00"	13°26'00"	13°00'00"	17°21'20"	13°15'00"	-- -- --
<i>P</i>	4.07'	4.65'	4.65'	1.63'	1.63'	2.82'
<i>K</i>	199.90'	199.87'	199.87'	149.98'	149.98'	174.94'
<i>Xc</i>	399.40'	399.22'	399.22'	299.87'	299.87'	349.67'
<i>Yc</i>	16.27'	18.59'	18.59'	6.54'	6.54'	-- -- --
<i>L.T.</i>	266.88'	266.94'	266.94'	200.04'	200.04'	-- -- --
<i>S.T.</i>	133.52'	133.58'	133.58'	100.04'	100.04'	-- -- --
<i>L.C.</i>	399.73'	399.65'	399.65'	299.94'	299.94'	-- -- --
<i>S.E.</i>	0.080 ft/ft	0.090 ft/ft	0.090 ft/ft	0.059 ft/ft	0.059 ft/ft	-- -- --

	$\#7$	$\#8$	$\#9$	$M-1$	$M-2$	$RA-1$	$RA-2$	$RB-1$	$RB-2$	$RB-3$
Δ	$31^{\circ}40'30''$	$05^{\circ}39'48''$	$62^{\circ}23'00''$	$08^{\circ}20'27''$	$06^{\circ}48'25''$	$59^{\circ}24'45''$	$94^{\circ}00'06''$	$08^{\circ}55'18''$	$18^{\circ}47'48''$	$59^{\circ}57'00''$
R	1809.34'	2022.20'	2022.20'	1797.34'	2293.13'	600.00'	50.00'	1800.00'	1265.58'	70.00'
T	514.27'	100.02'	1224.29'	131.06'	136.38'	342.32'	53.62'	140.43'	209.47'	40.37'
C	987.57'	199.80'	2094.61'	261.42'	272.27'	594.66'	73.14'	280.00'	413.33'	69.95'
L	1000.26'	199.88'	2201.76'	261.65'	272.43'	622.09'	82.03'	280.28'	415.20'	73.24'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY <i>J. Matsunami</i>	<i>11-26-96</i>
	TRACED BY	
NOTE BOOK	DESIGNED BY <i>G. Yamasaki</i>	
<i>dda,jason</i>	QUANTITIES BY	
<i>5, bfrap9</i>	CHECKED BY	

15