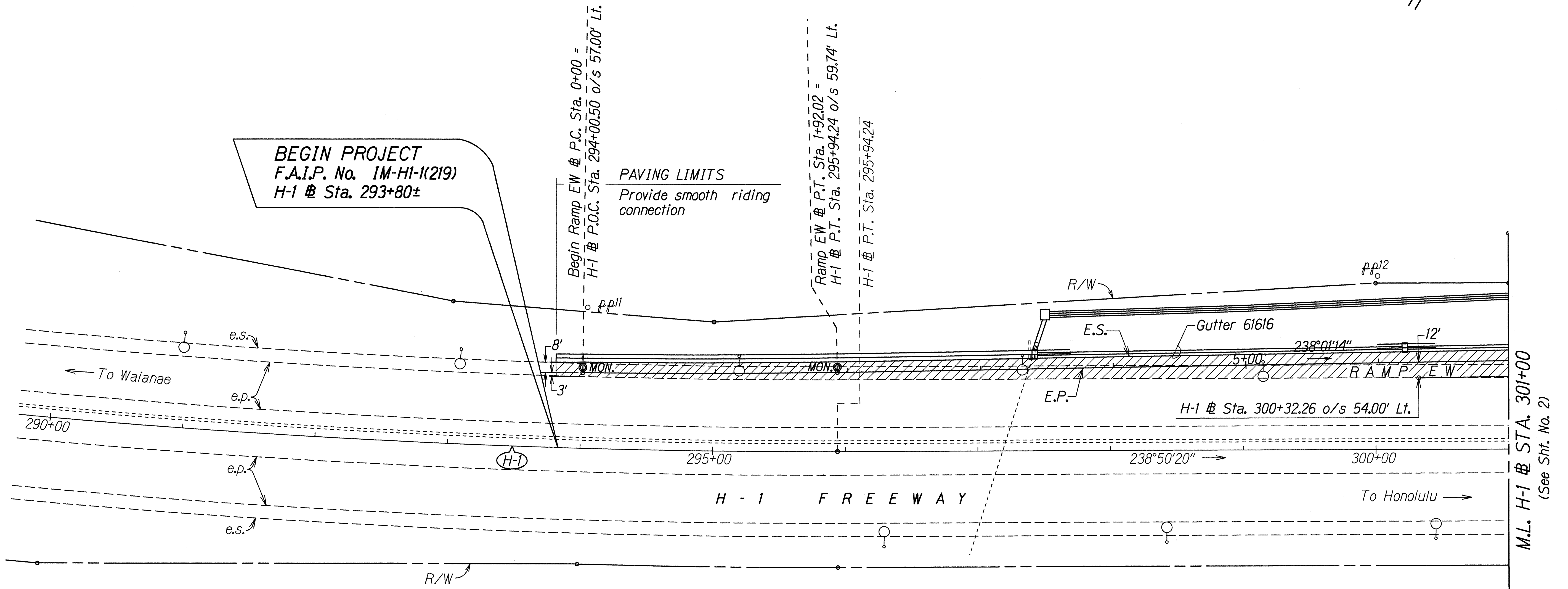


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	58	378

TRUE NORTH
SCALE: 1" = 40'



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	10-1-97
N. 0116201	CHECKED BY	

7/21/98	Revised alignment of Type "I" Lined Drainage Ditch.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

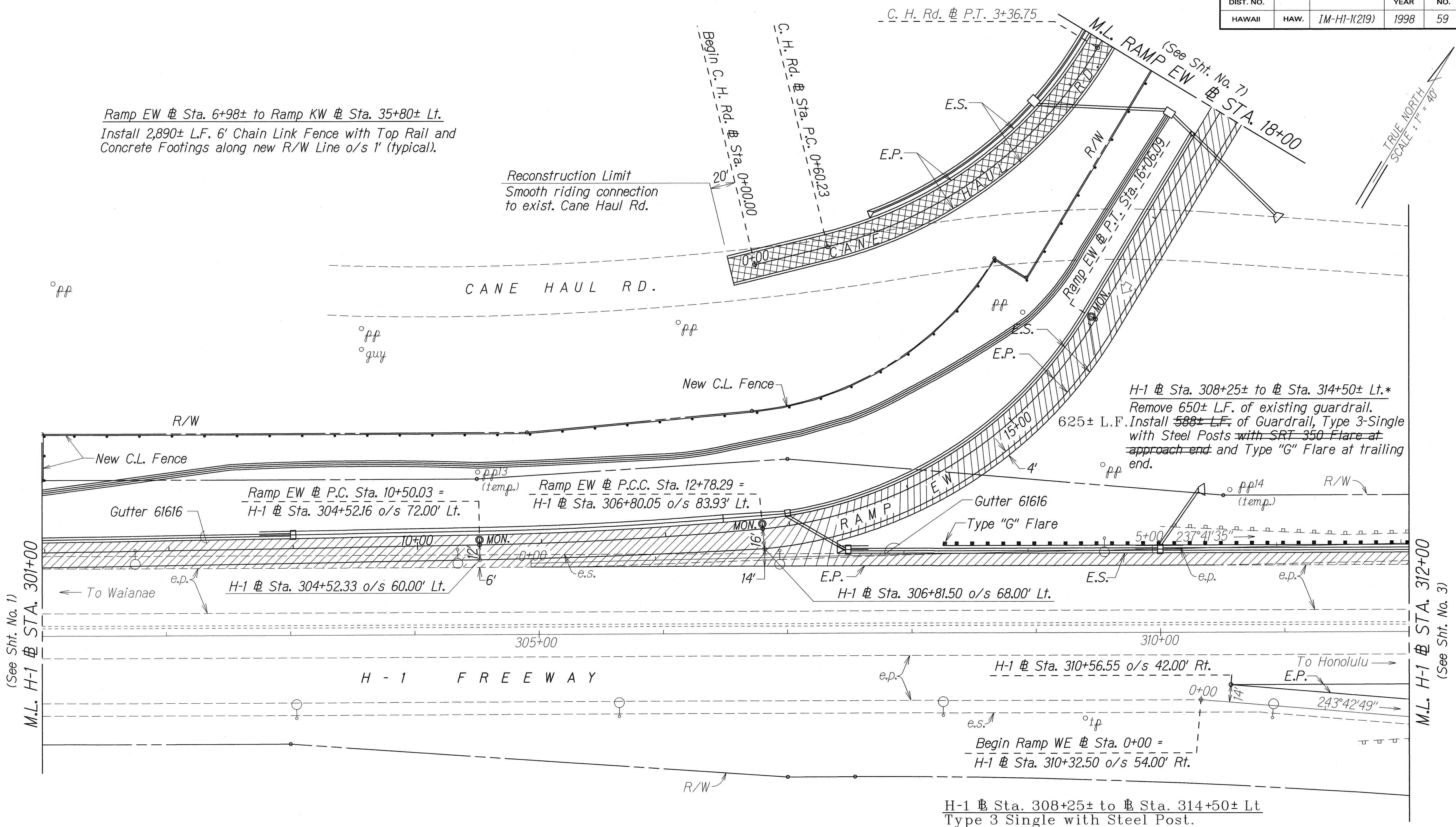
ROADWAY PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40' Date: Oct. 1997

SHEET No. 1 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-K(219)	1998	59	378



Ramp EW @ Sta. 6+98± to Ramp KW @ Sta. 35+80± Lt.
Install 2,890± L.F. 6' Chain Link Fence with Top Rail and Concrete Footings along new R/W Line o/s 1' (typical).

Reconstruction Limit
Smooth riding connection to exist. Cane Haul Rd.

H-1 @ Sta. 308+25± to @ Sta. 314+50± Lt.*
Remove 650± L.F. of existing guardrail.
Install 588± L.F. of Guardrail, Type 3-Single with Steel Posts with SRT-350 Flare at approach end and Type "G" Flare at trailing end.

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

*C.C.O. No.17 - W6x8.5
Guardrail Posts Installed and Accepted in Lieu of 6x9 Guardrail Posts.

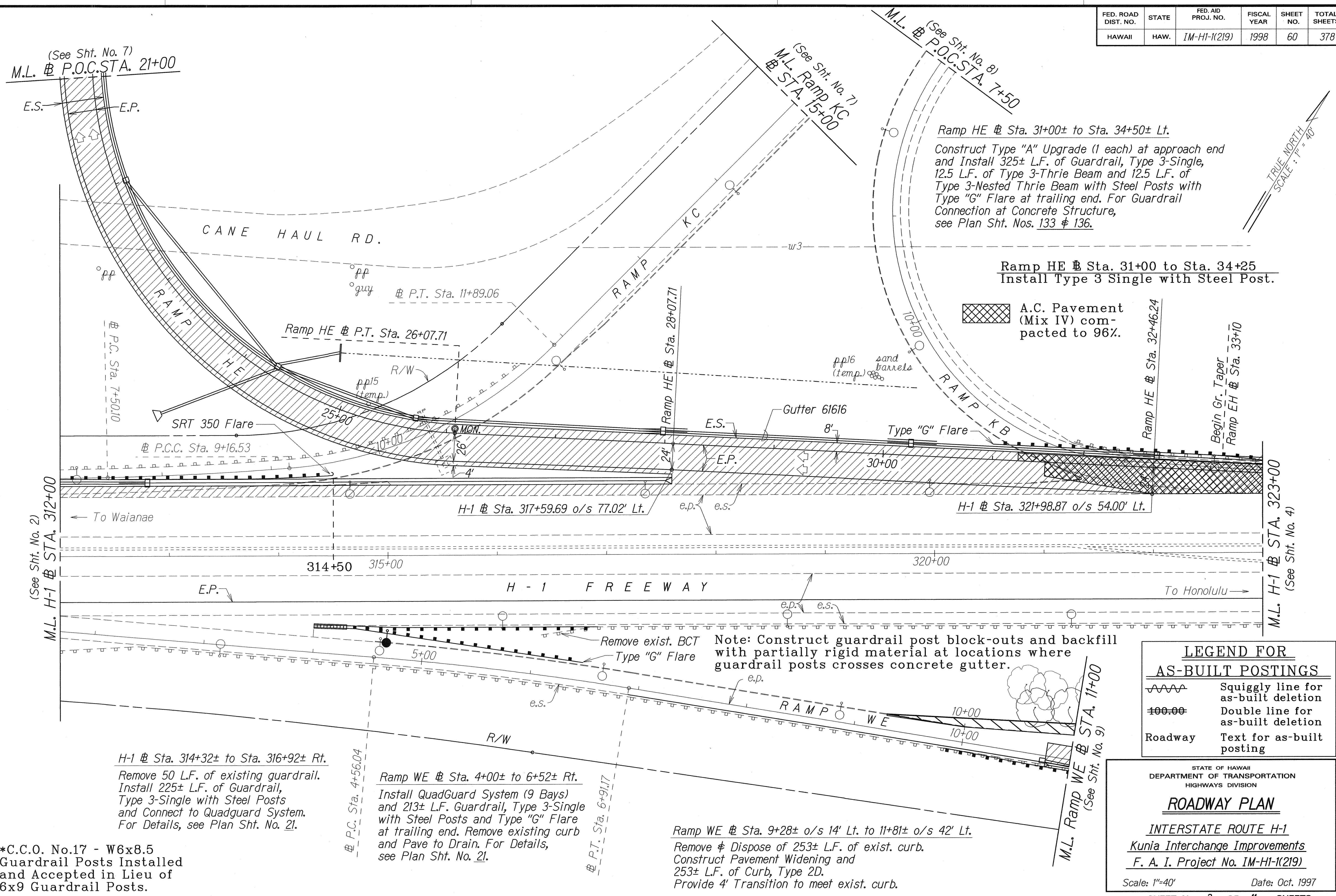
DATE	REVISION
7/21/98	Revised alignment of Type "I" Lined Drainage Ditch.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-H1-K(219)
Scale: 1"=40' Date: Oct. 1997
SHEET No. 2 OF 11 SHEETS

DESIGNED BY	DATE
DRAWN BY	10-9-97
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(219)	1998	60	378



Ramp HE @ Sta. 31+00± to Sta. 34+50± Lt.
Construct Type "A" Upgrade (1 each) at approach end and Install 325± L.F. of Guardrail, Type 3-Single, 12.5 L.F. of Type 3-Thrie Beam and 12.5 L.F. of Type 3-Nested Thrie Beam with Steel Posts with Type "G" Flare at trailing end. For Guardrail Connection at Concrete Structure, see Plan Sht. Nos. 133 & 136.

Ramp HE @ Sta. 31+00 to Sta. 34+25
Install Type 3 Single with Steel Post.

A.C. Pavement (Mix IV) compacted to 96%.

Note: Construct guardrail post block-outs and backfill with partially rigid material at locations where guardrail posts crosses concrete gutter.

H-1 @ Sta. 314+32± to Sta. 316+92± Rt.
Remove 50 L.F. of existing guardrail. Install 225± L.F. of Guardrail, Type 3-Single with Steel Posts and Connect to Quadguard System. For Details, see Plan Sht. No. 21.

Ramp WE @ Sta. 4+00± to 6+52± Rt.
Install QuadGuard System (9 Bays) and 213± L.F. Guardrail, Type 3-Single with Steel Posts and Type "G" Flare at trailing end. Remove existing curb and Pave to Drain. For Details, see Plan Sht. No. 21.

Ramp WE @ Sta. 9+28± o/s 14' Lt. to 11+81± o/s 42' Lt.
Remove & Dispose of 253± L.F. of exist. curb. Construct Pavement Widening and 253± L.F. of Curb, Type 2D. Provide 4' Transition to meet exist. curb.

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

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-H1-1(219)

Scale: 1"=40' Date: Oct. 1997

SHEET No. 3 OF 11 SHEETS

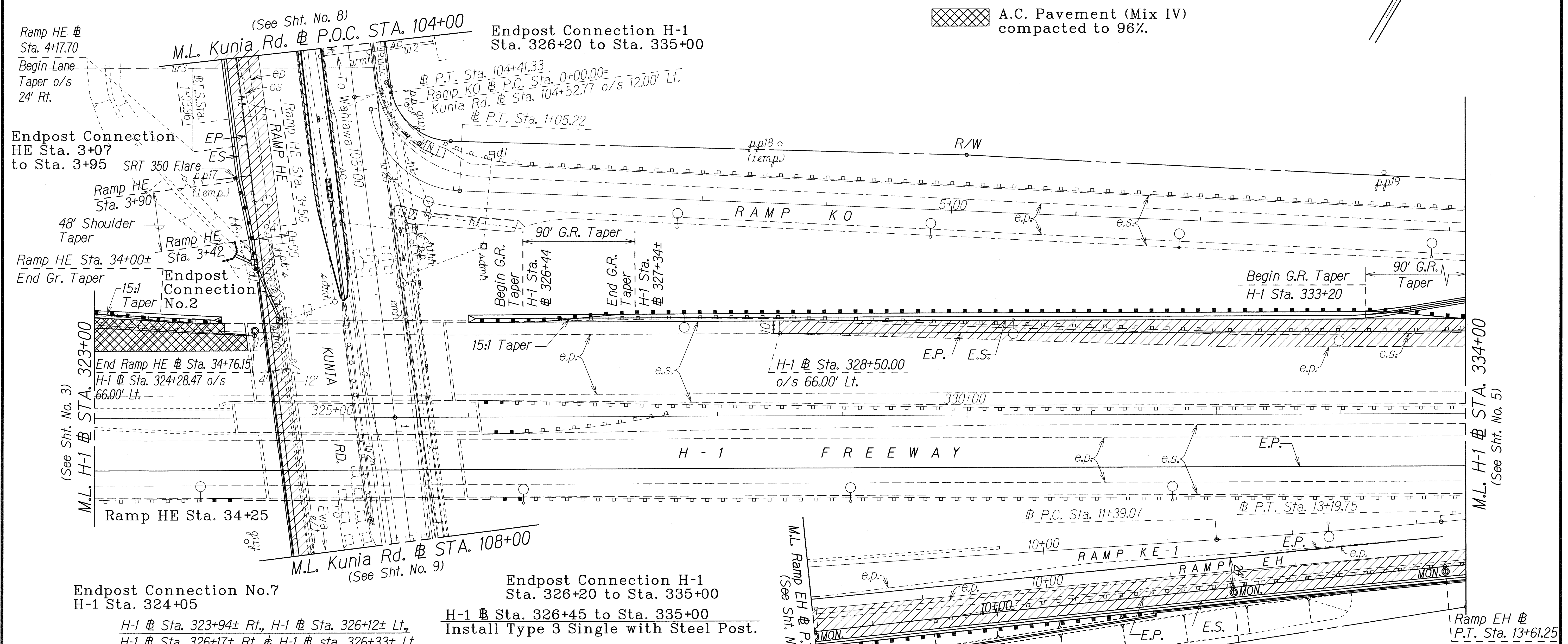
DESIGNED BY	DATE
DRAWN BY	10-15-97
CHECKED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS	

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-K(219)	1998	61	378

Ramp HE @ Sta. 3+07± to Sta. 3+95± Lt.
 Install 12.5 L.F. of Guardrail, Type 3-Thrie Beam and 12.5 L.F. of Nested Thrie Beam with Steel Posts and connect to approach end of Retaining Wall. Install 25± L.F. of Guardrail, Type 3-Single with Steel Posts with SRT 350 Flare at trailing end. For Guardrail Connection at Concrete Structure, see Plan Sht. No. 132.

Kunia Rd. @ Sta. 105+03± to @ Sta. 106+01± Rt.
 Remove existing ramped down barrier. Install QuadGuard System (5 Bays), Concrete Backup, Barrier Transition and Reconstructed Concrete Median Barrier. For Details, See Plan Sht. Nos. 23 & 136.



⊞ A.C. Pavement (Mix IV) compacted to 96%.

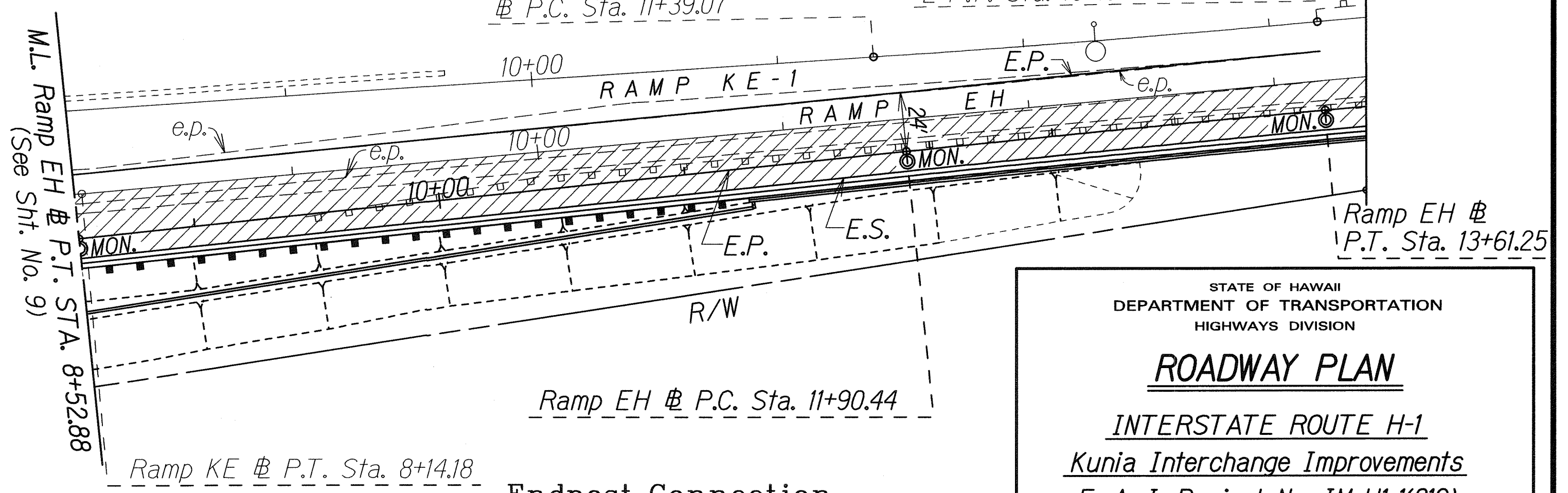
TRUE NORTH
 SCALE: 1" = 40'

DESIGNED BY	DATE
TRACED BY	11-25-97
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

* C.C.O. No.17 - W6x8.5 Guardrail Posts Installed and Accepted in Lieu of 6x9 Guardrail Posts.

Note: Construct guardrail post block-outs and backfill with partially rigid material at various locations where posts crosses concrete gutters.

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



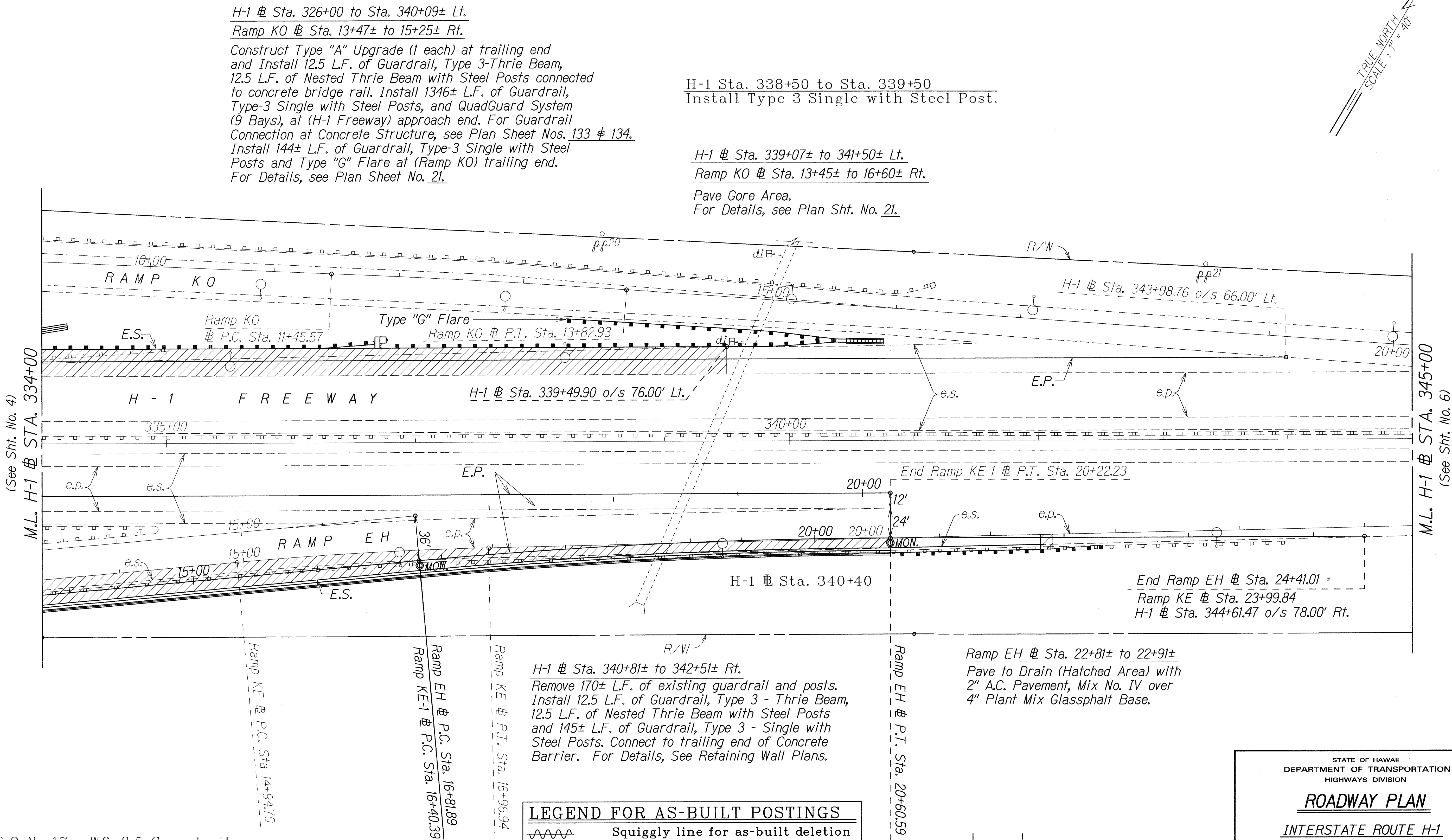
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**ROADWAY PLAN**  
 INTERSTATE ROUTE H-1  
 Kunia Interchange Improvements  
 F. A. I. Project No. IM-H1-K(219)  
 Scale: 1"=40' Date: Oct. 1997  
 SHEET No. 4 OF 11 SHEETS

AS-BUILT



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-K(219)	1998	62	378

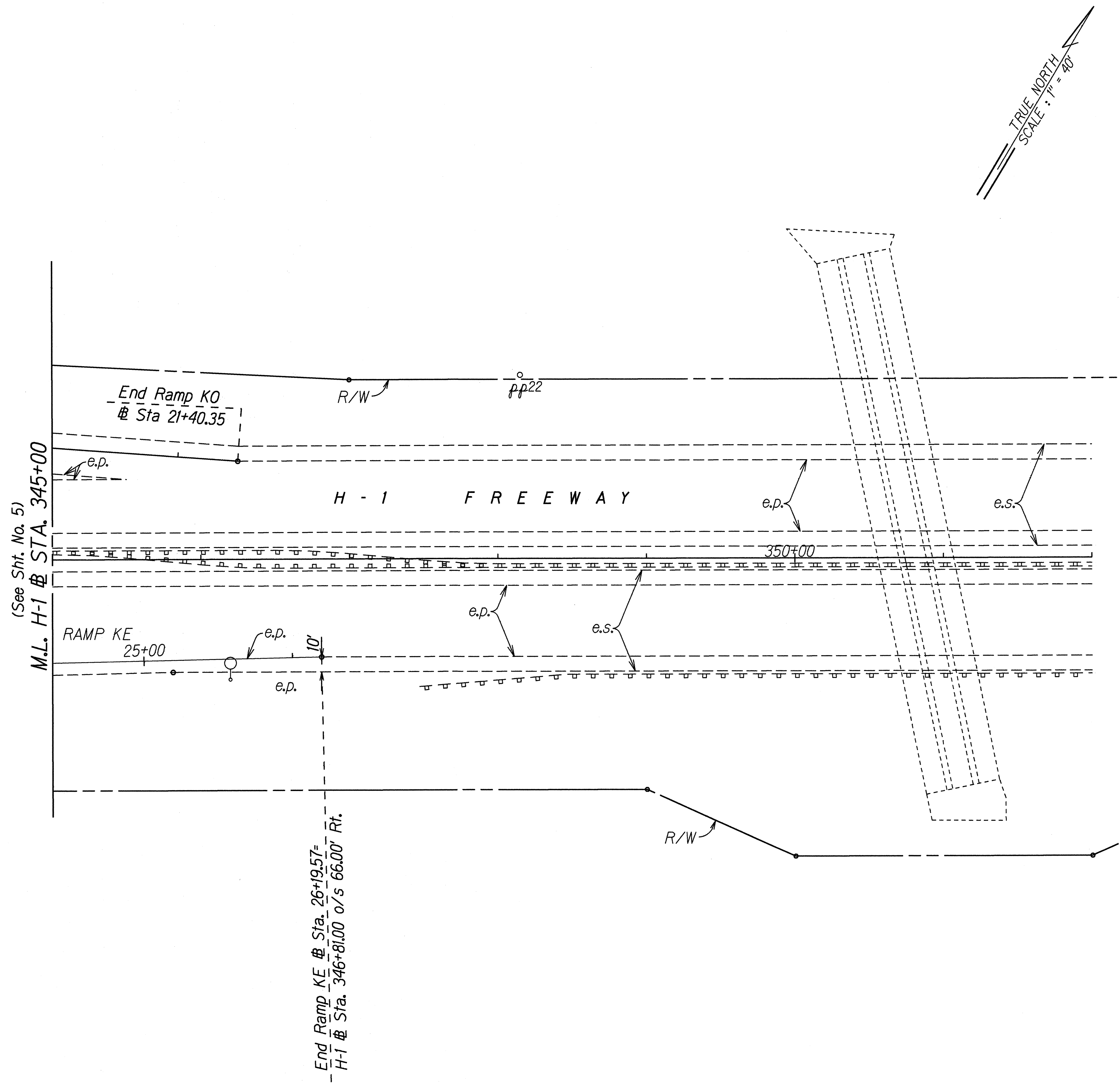


AS-BUILT

C.O. 62



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	63	378



4-02-99	Deleted Construction note at H-1 Sta. 344+10± and New Guardrail at H-1 o/s Rt. Deleted note: Remove existing guardrail & protective mound.
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DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

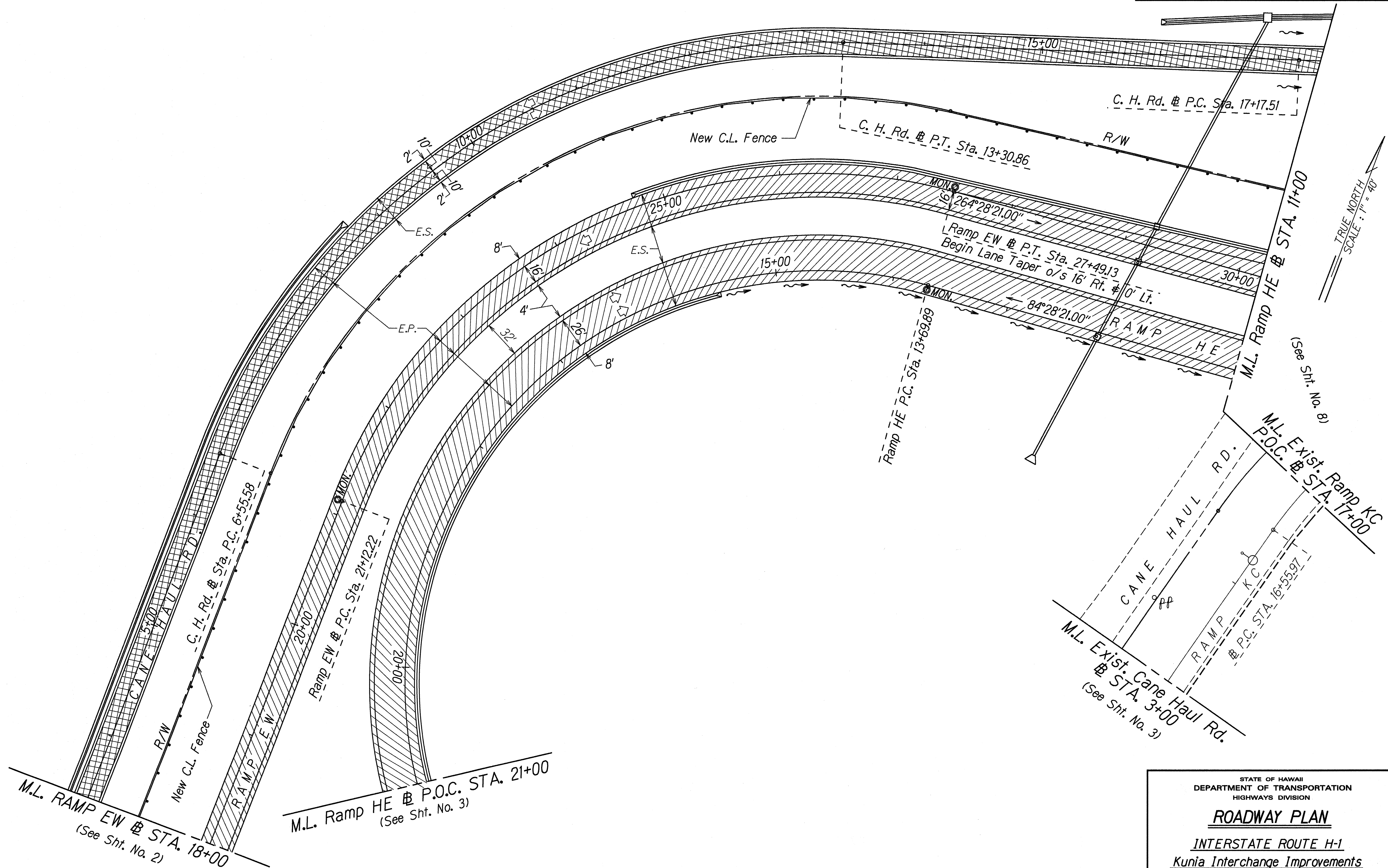
**INTERSTATE ROUTE H-1**  
**Kunia Interchange Improvements**  
**F. A. I. Project No. IM-HI-1(219)**

Scale: 1"=40' Date: Oct. 1997

SHEET No. 6 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	64	378



SURVEY PLOTTED BY	DATE
DRAWN BY	10-1-97
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

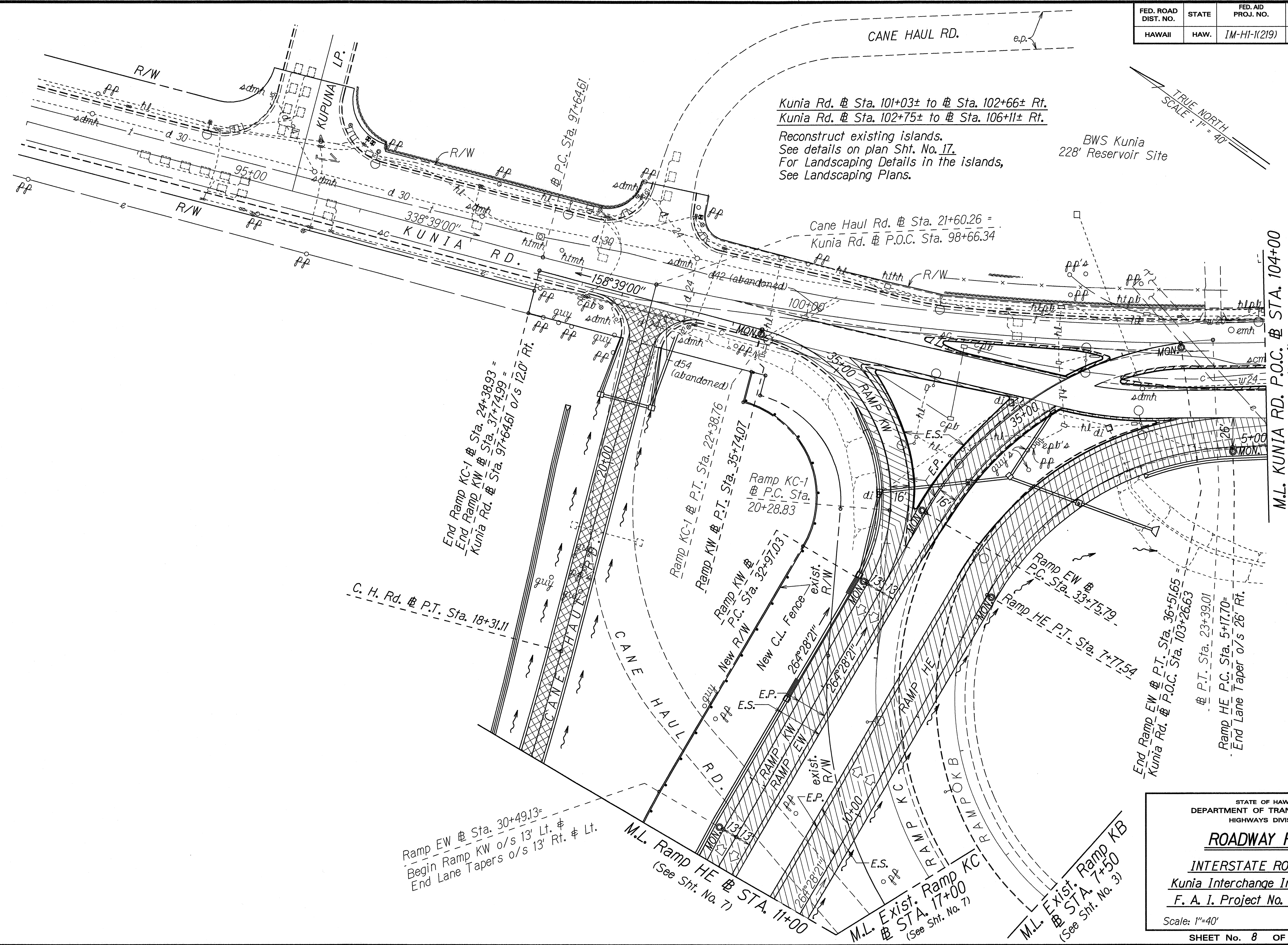
**INTERSTATE ROUTE H-1**  
**Kunia Interchange Improvements**  
**F. A. I. Project No. 1M-HI-1(219)**

Scale: 1"=40' Date: Oct. 1997

SHEET No. 7 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	65	378



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	11-25-97
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**ROADWAY PLAN**

**INTERSTATE ROUTE H-1**  
**Kunia Interchange Improvements**  
**F. A. I. Project No. 1M-HI-1(219)**

Scale: 1"=40' Date: Oct. 1997

SHEET No. 8 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	C.O.66	378

(See Sht. No. 4)  
M.L. Ramp EH @ P.T. STA. 8+52.88

Kunia Rd. @ Sta. 108+50± Rt.  
Reconstruct Island with New Type 2D Curb. Pav Island with 4" of Concrete with 6x6 W1.4 x W1.4 WWF over 4" Bed Course. For Details, See Plan Sht. No. 18.

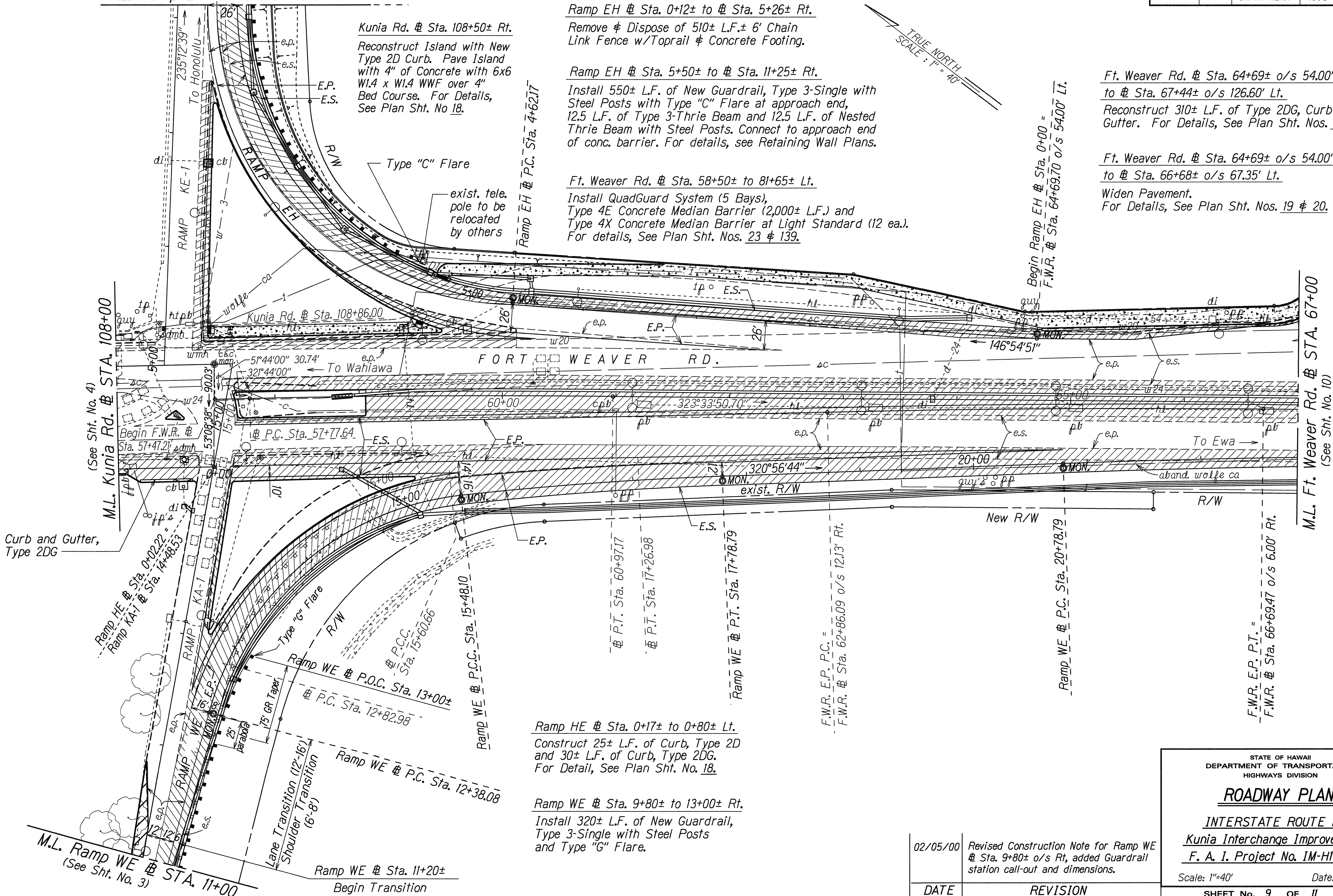
Ramp EH @ Sta. 0+12± to Sta. 5+26± Rt.  
Remove & Dispose of 510± L.F.± 6' Chain Link Fence w/Toprail & Concrete Footing.

Ramp EH @ Sta. 5+50± to Sta. 11+25± Rt.  
Install 550± L.F. of New Guardrail, Type 3-Single with Steel Posts with Type "C" Flare at approach end, 12.5 L.F. of Type 3-Thrie Beam and 12.5 L.F. of Nested Thrie Beam with Steel Posts. Connect to approach end of conc. barrier. For details, see Retaining Wall Plans.

Ft. Weaver Rd. @ Sta. 58+50± to 81+65± Lt.  
Install QuadGuard System (5 Bays), Type 4E Concrete Median Barrier (2,000± L.F.) and Type 4X Concrete Median Barrier at Light Standard (12 ea.). For details, See Plan Sht. Nos. 23 & 139.

Ft. Weaver Rd. @ Sta. 64+69± o/s 54.00' to Sta. 67+44± o/s 126.60' Lt.  
Reconstruct 310± L.F. of Type 2DG, Curb and Gutter. For Details, See Plan Sht. Nos. 19 & 20.

Ft. Weaver Rd. @ Sta. 64+69± o/s 54.00' to Sta. 66+68± o/s 67.35' Lt.  
Widen Pavement.  
For Details, See Plan Sht. Nos. 19 & 20.



Ramp HE @ Sta. 0+17± to 0+80± Lt.  
Construct 25± L.F. of Curb, Type 2D and 30± L.F. of Curb, Type 2DG. For Detail, See Plan Sht. No. 18.

Ramp WE @ Sta. 9+80± to 13+00± Rt.  
Install 320± L.F. of New Guardrail, Type 3-Single with Steel Posts and Type "G" Flare.

F.W.R. E.P. P.C. =  
F.W.R. @ Sta. 62+86.09 o/s 12.13' Rt.

Ramp WE @ P.C. Sta. 20+78.79

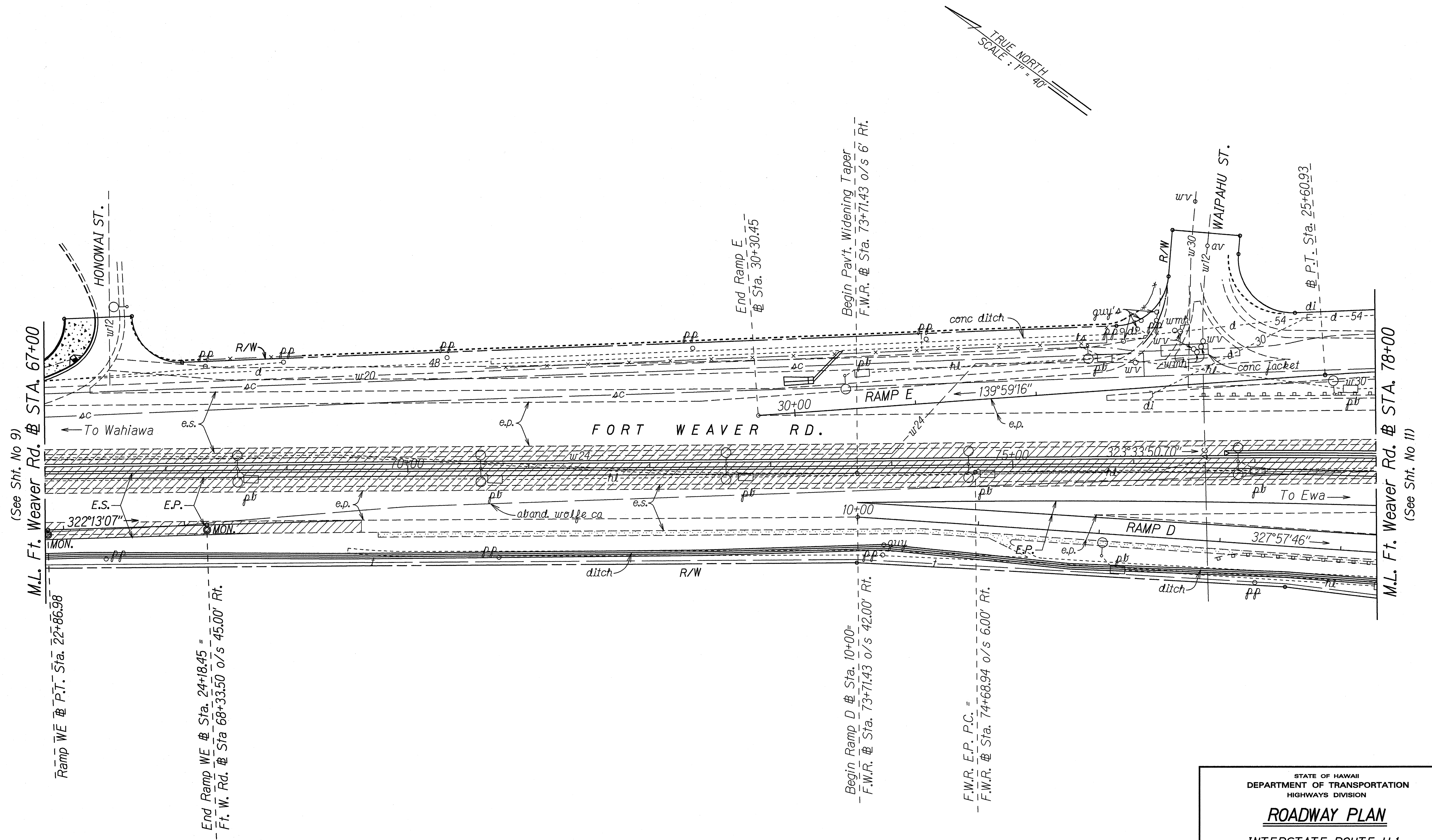
F.W.R. E.P. P.T. =  
F.W.R. @ Sta. 66+69.47 o/s 6.00' Rt.

ORIGINAL PLAN	DATE	12-05-00
DESIGNED BY	TRACED BY	12-05-00
NOTES	DESIGNED BY	12-05-00
QUANTITIES BY	QUANTITIES BY	12-05-00
CHECKED BY	CHECKED BY	12-05-00

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**ROADWAY PLAN**  
**INTERSTATE ROUTE H-1**  
**Kunia Interchange Improvements**  
**F. A. I. Project No. IM-HI-1(219)**  
Scale: 1"=40' Date: Oct. 1997  
SHEET No. 9 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	67	378



ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY <i>md, P. Wang</i>
<i>ditm</i>	TRACED BY _____
<i>ditm</i>	DESIGNED BY <i>M. Quedala</i>
<i>ditm</i>	QUANTITIES BY _____
<i>ditm</i>	CHECKED BY _____
No. _____	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

**INTERSTATE ROUTE H-1**

**Kunia Interchange Improvements**

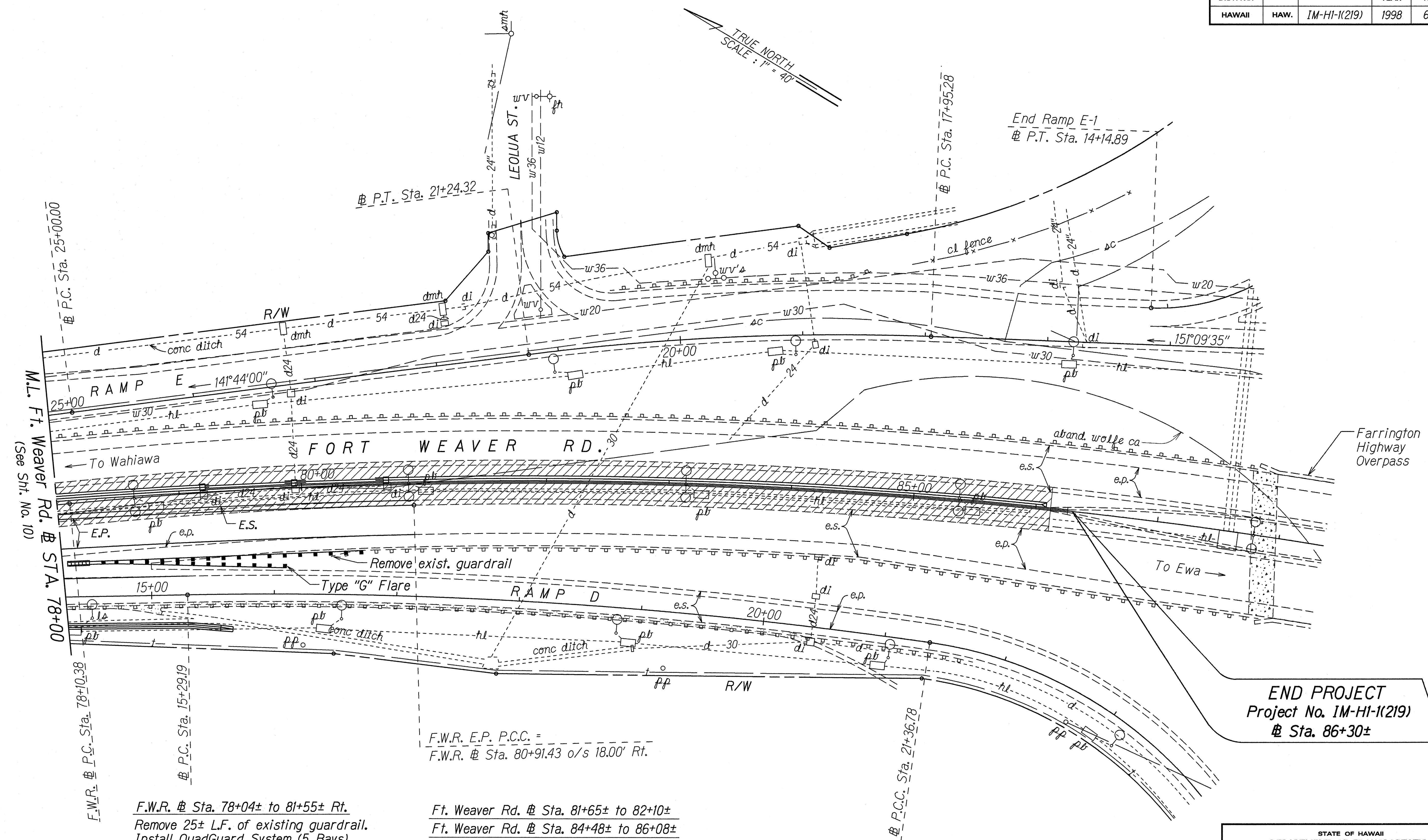
**F. A. I. Project No. IM-H1-1(219)**

Scale: 1"=40'      Date: Oct. 1997

SHEET No. 10 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	68	378



SURVEY PLATTED BY	DATE
DESIGNED BY	11-2-97
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

INTERSTATE ROUTE H-1  
Kunia Interchange Improvements  
F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40' Date: Oct. 1997

SHEET No. 11 OF 11 SHEETS