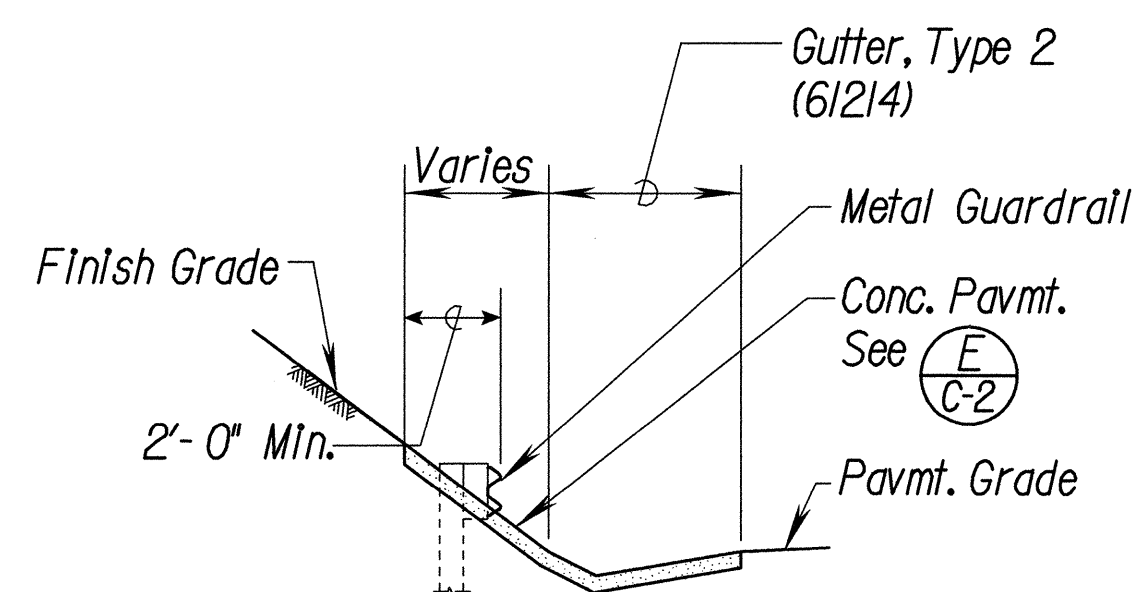
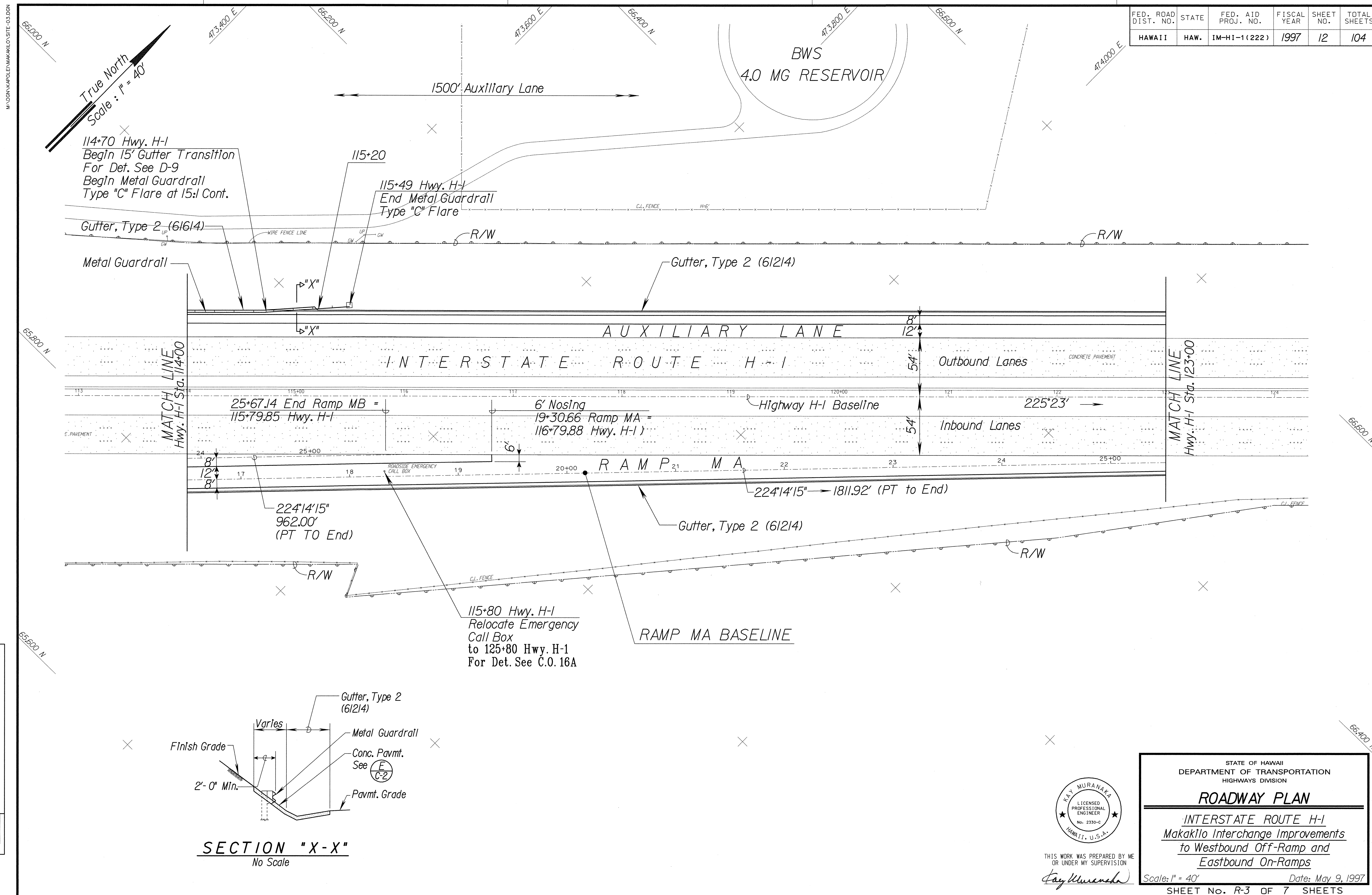
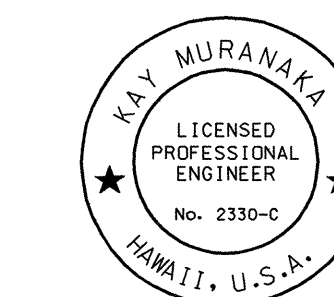


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1 (222)	1997	12	104



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
N ^o .	



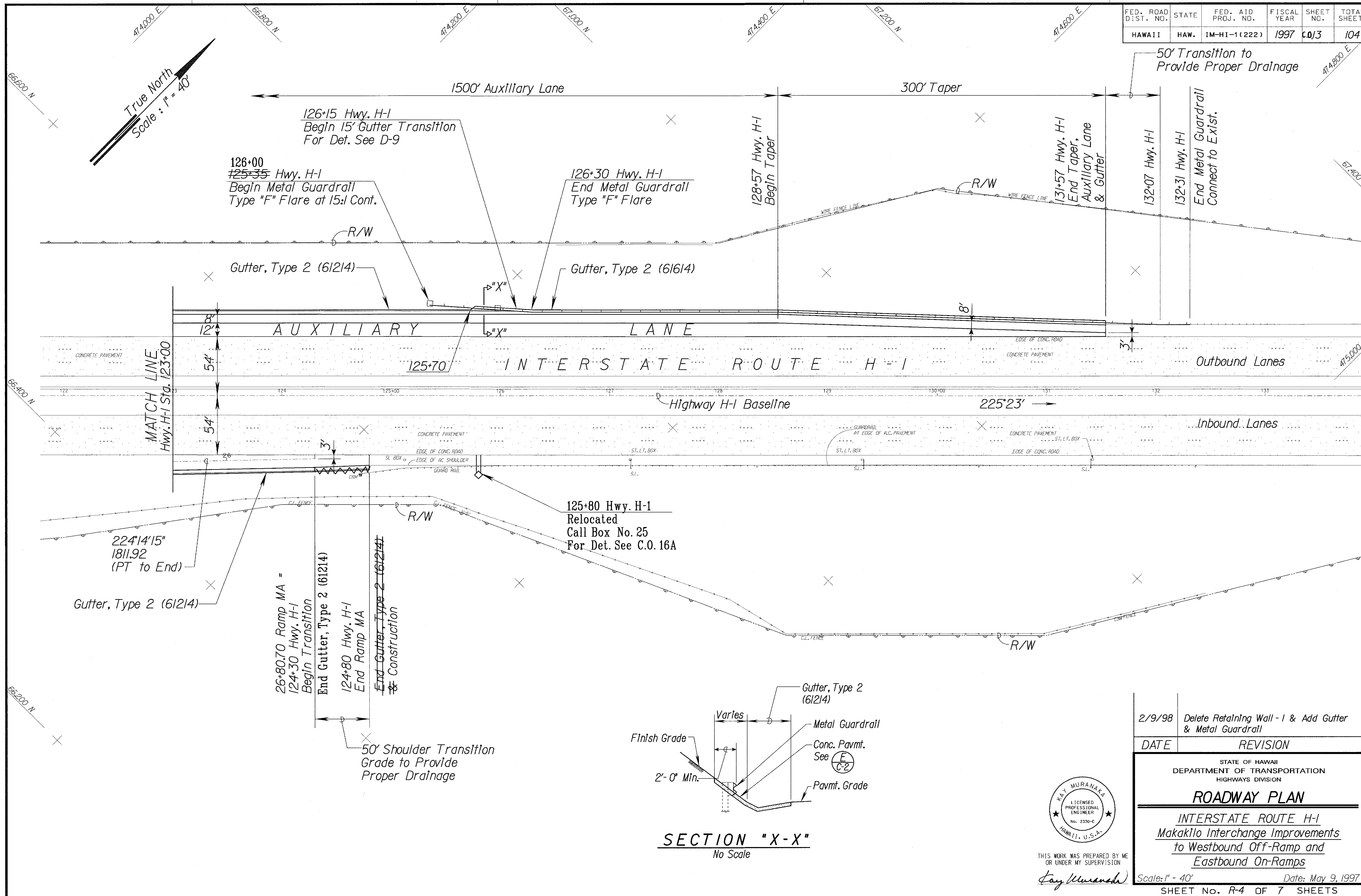
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Kay Muranaka

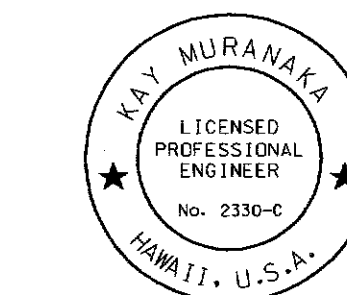
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps
Scale: 1" = 40'
Date: May 9, 1997
SHEET NO. R-3 OF 7 SHEETS

MAKAKILO INTERCHANGE IMPROVEMENTS SITE-04.DGN

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1 (222)	1997	C.0/3	104



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

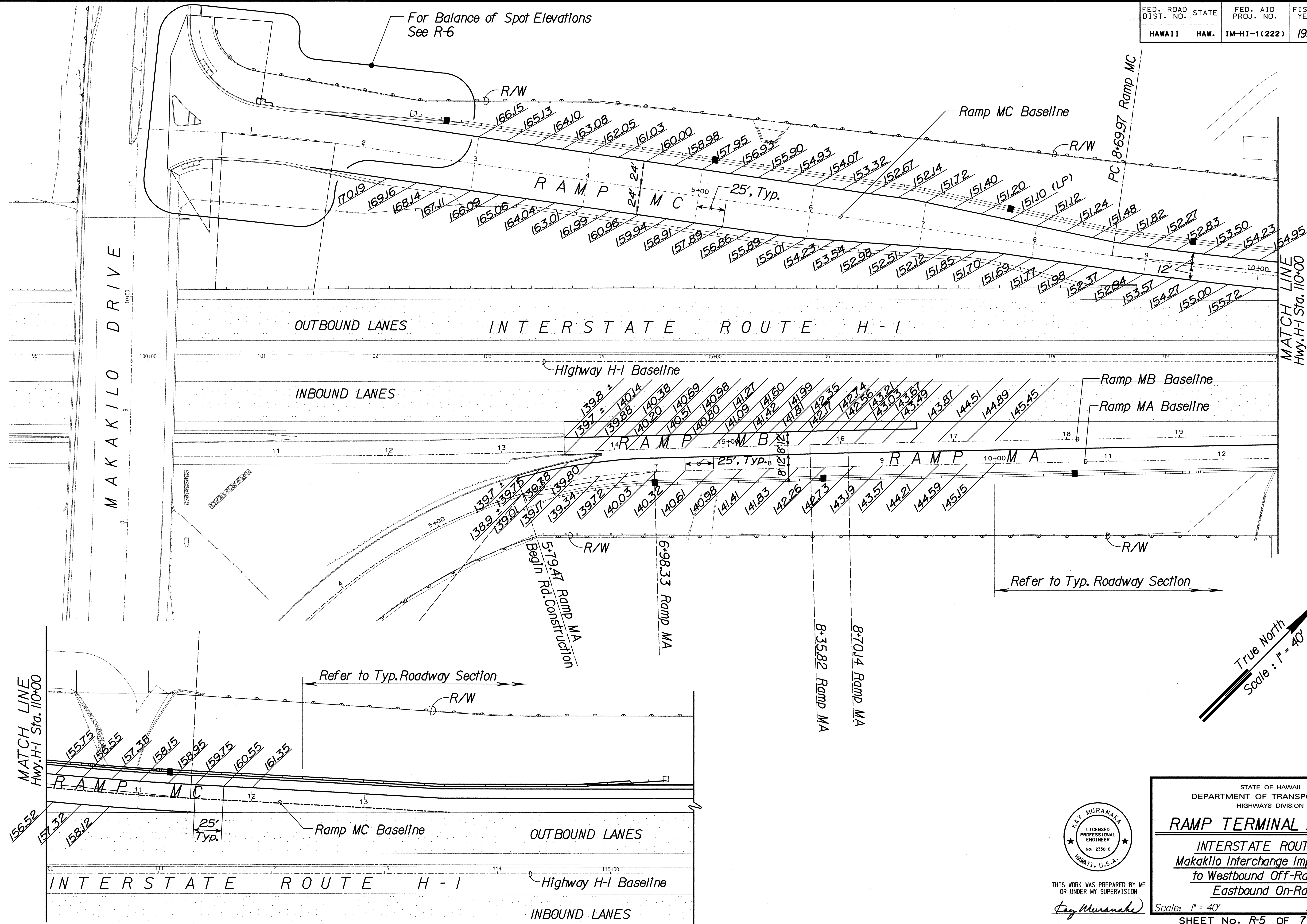


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

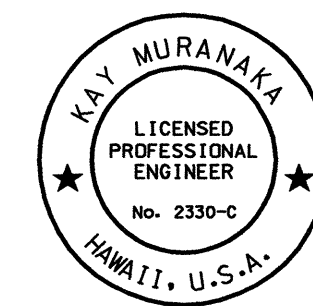
Kay Muranaka

MAKAKILO DRIVE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(222)	1997	14	104



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



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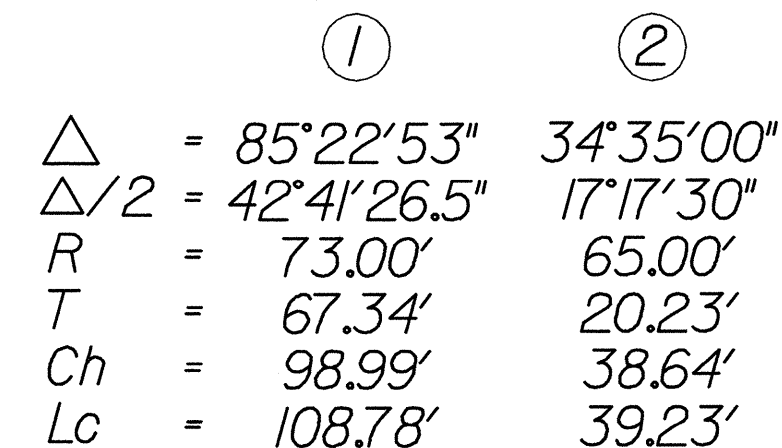
Kay Muranaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAMP TERMINAL DETAILS
INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

Scale: 1" = 40' Date: May 9, 1997

SHEET No. R-5 OF 7 SHEETS



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

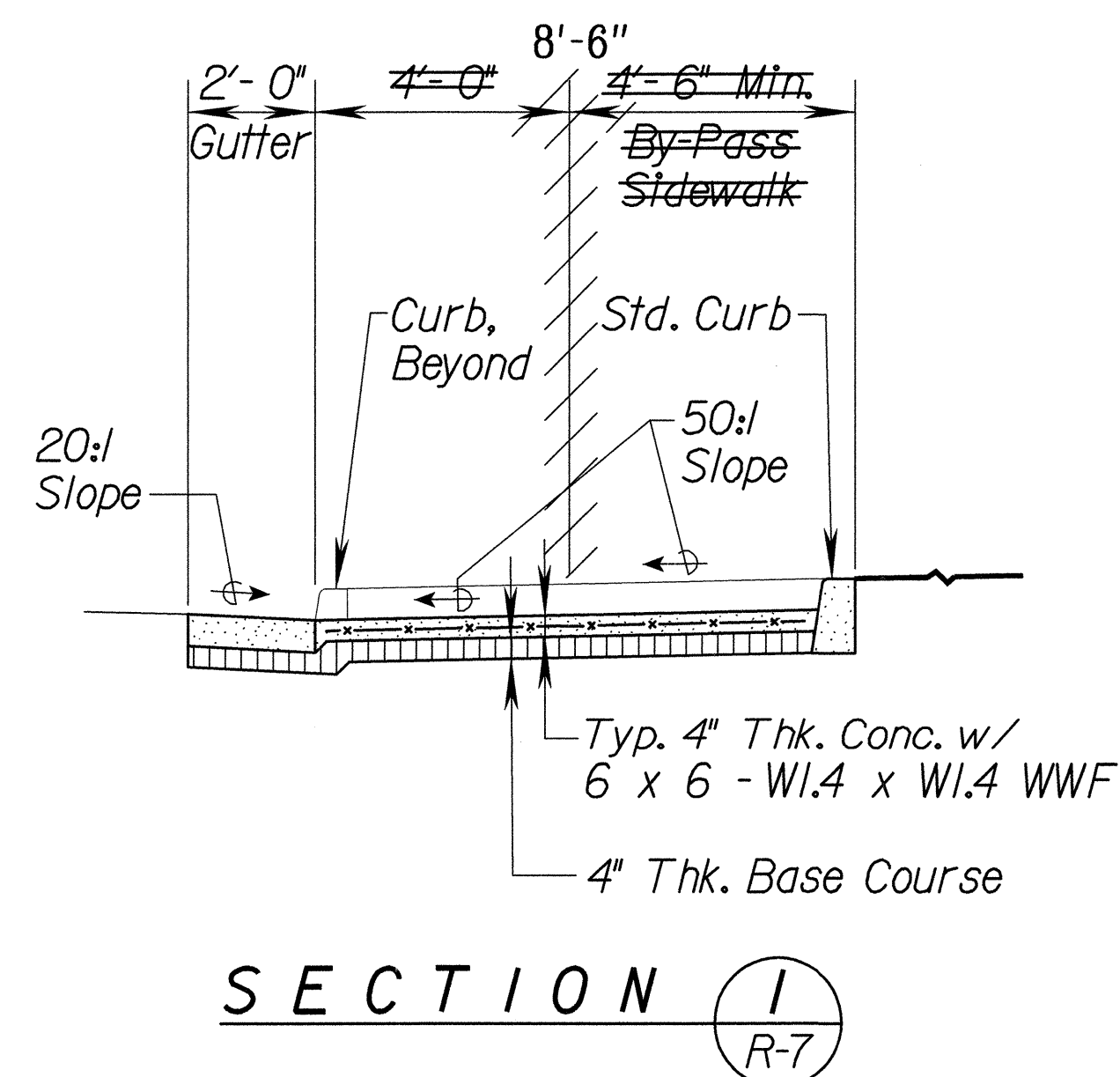
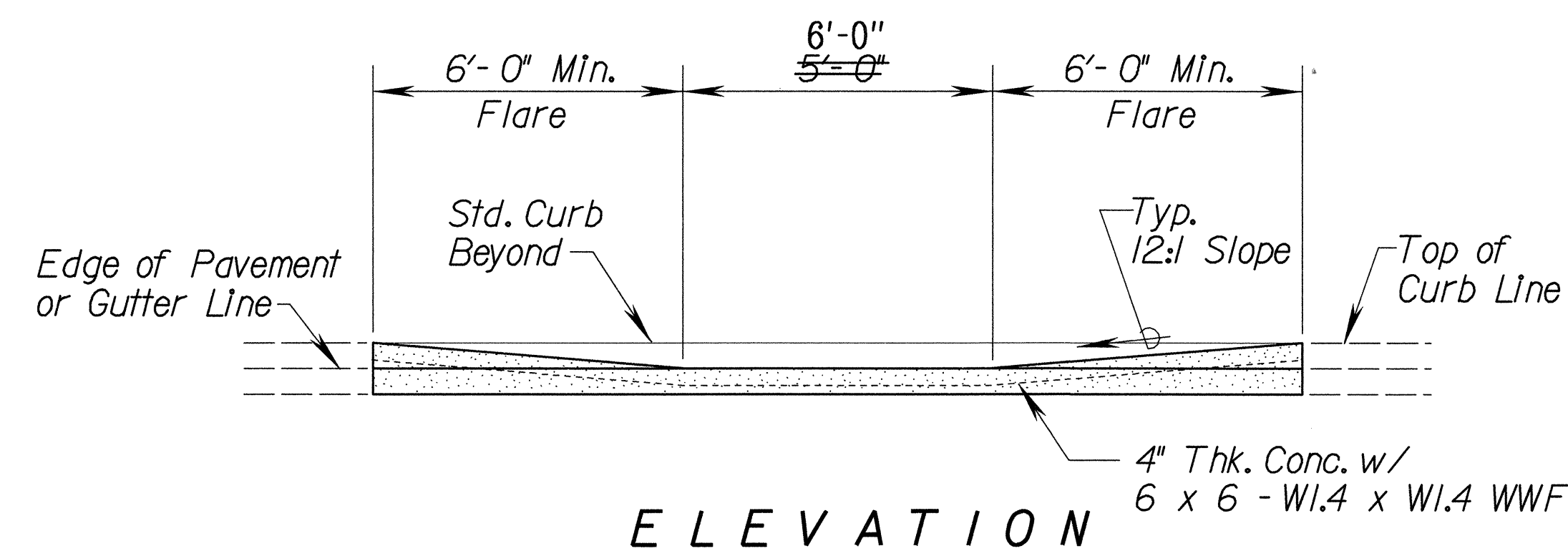
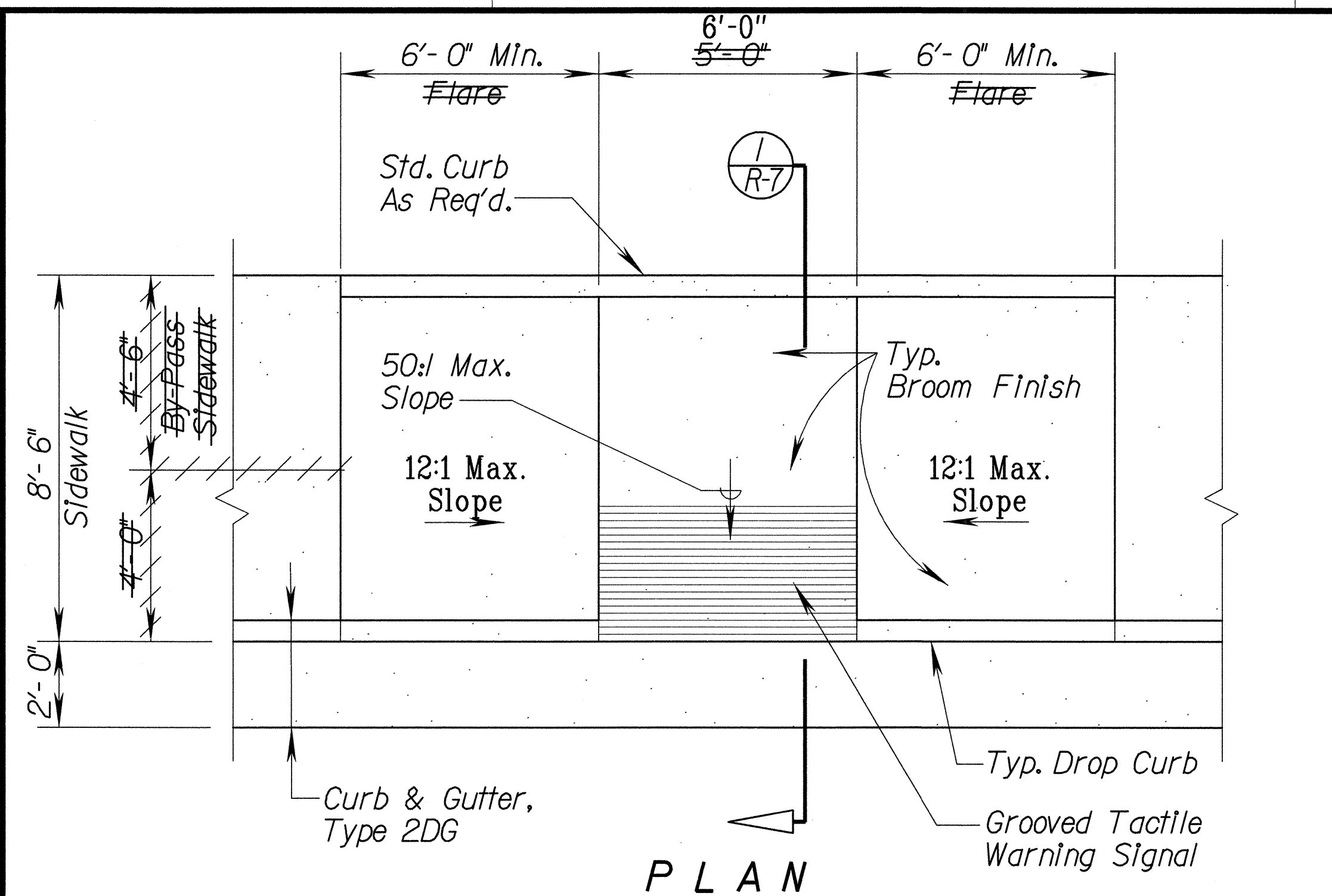
INTERSECTION DETAILS & GRADES

INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

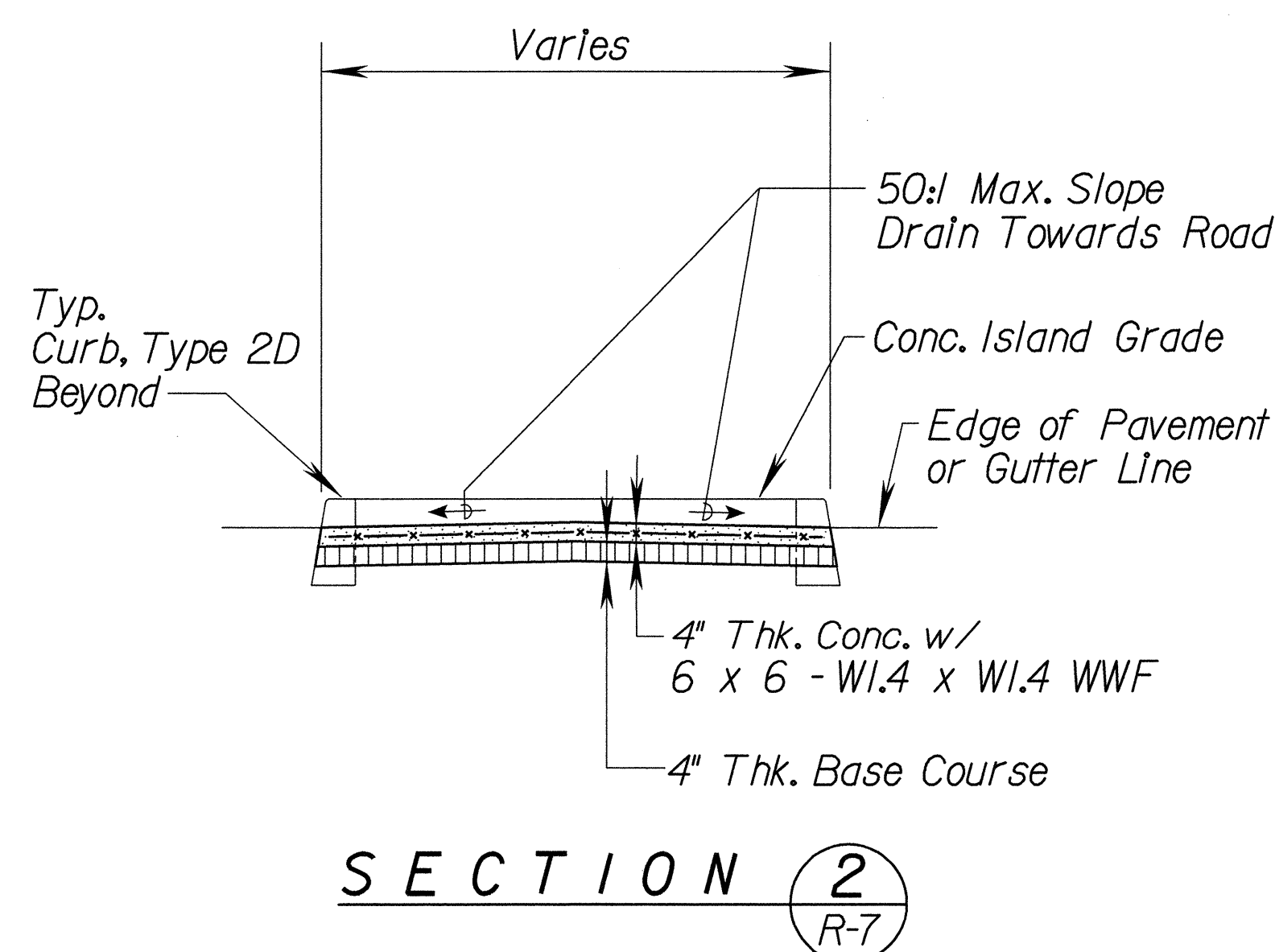
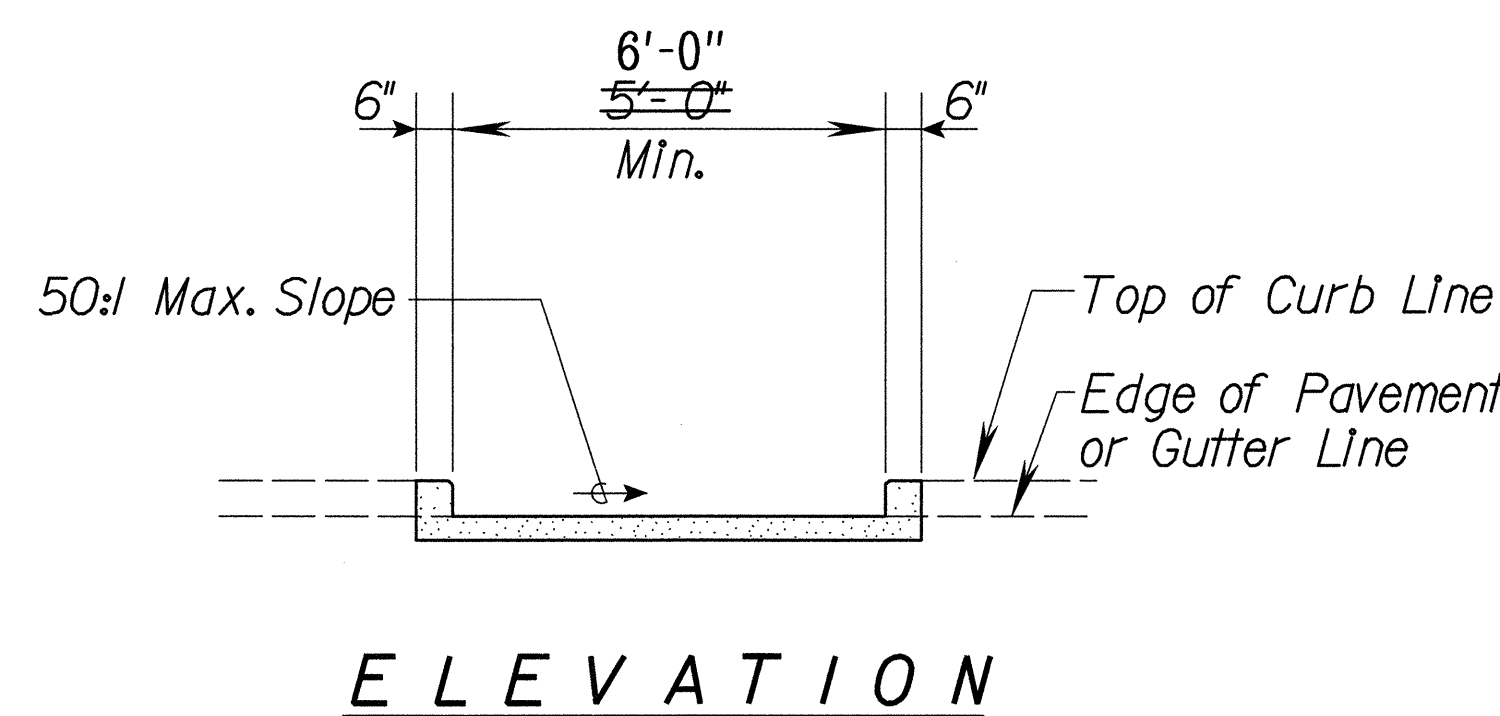
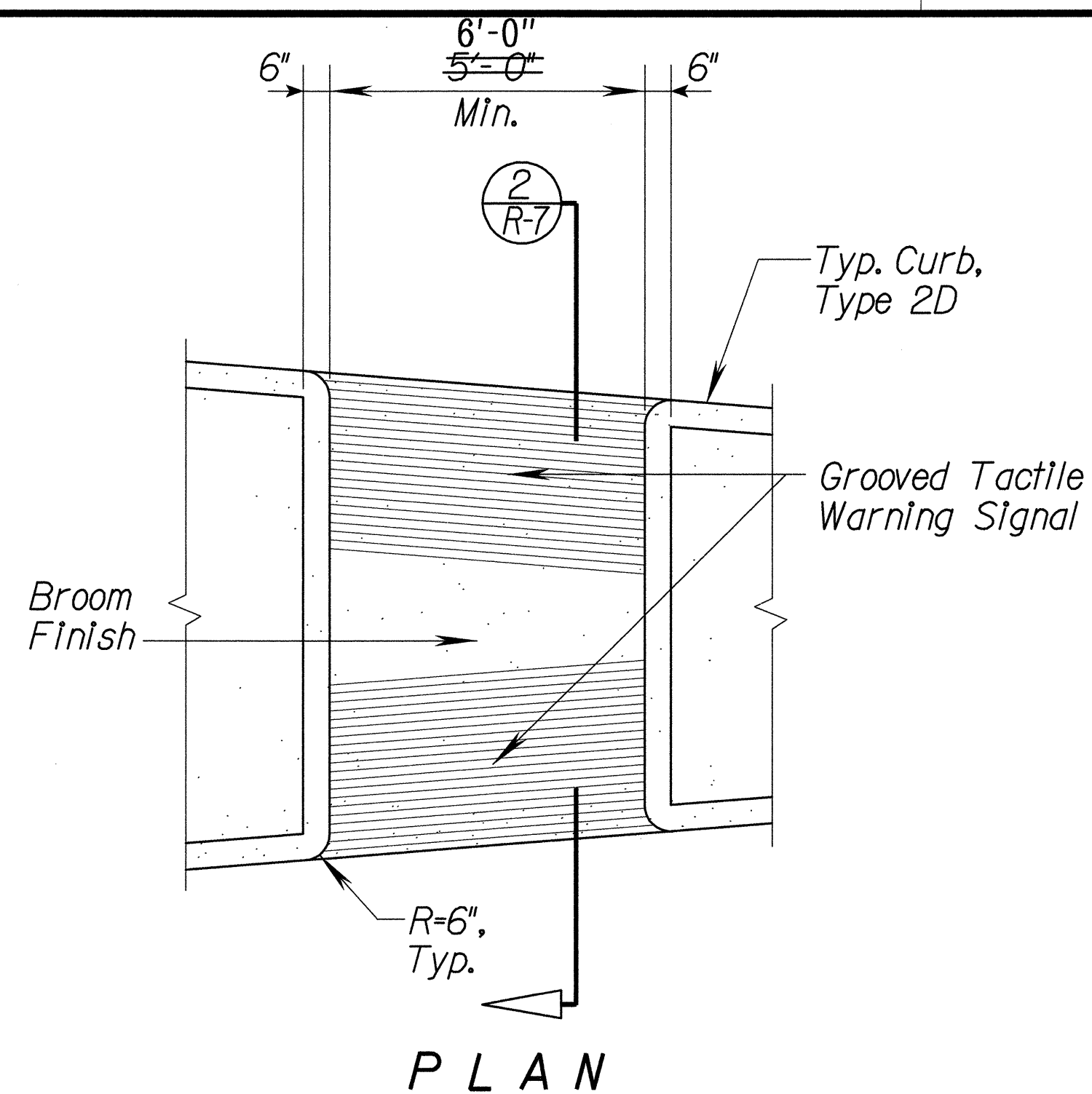
Scale: 1" = 20' Date: May 9, 1997

SHEET No. R-6 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(222)	1997	16	104



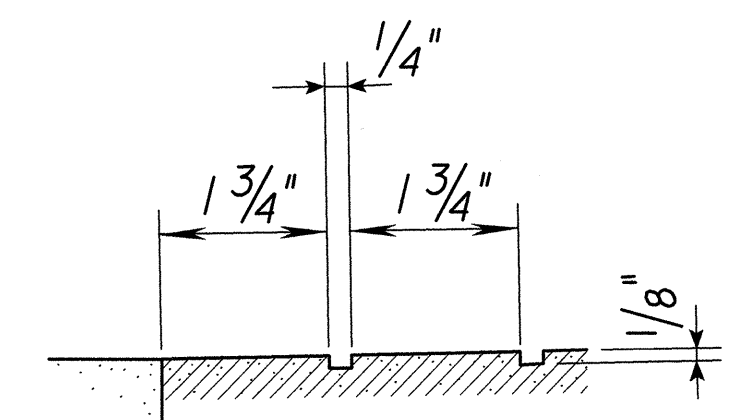
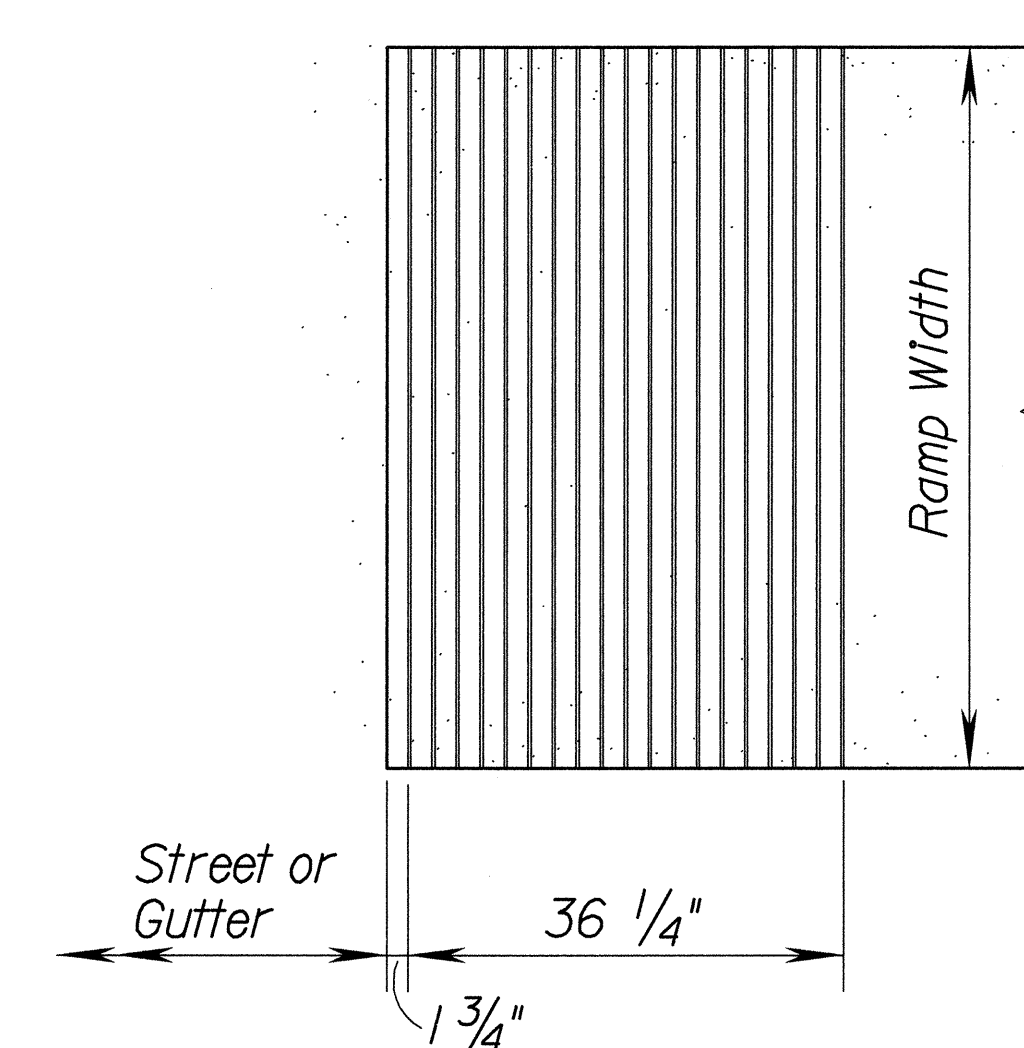
WHEELCHAIR RAMP - TYPE "B" MODIFIED
Scale : $\frac{3}{8}" = 1'-0"$



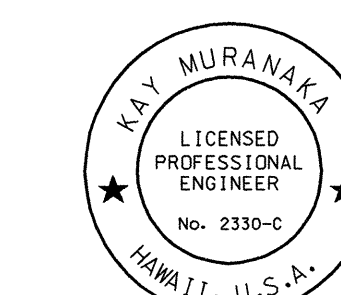
WHEELCHAIR RAMP - TYPE "C"
Scale : $\frac{3}{8}" = 1'-0"$

Notes :

- When Necessitated by Existing Physical Conditions, Alternate Wheelchair Ramps May be Used Subject to the Engineer's Approval.
- Subject to Field Conditions, the Engineer Shall Determine Final Location of Wheelchair Ramps.
- Where Necessary, Pullboxes, Handholes, Manholes, Etc. Shall be Adjusted to Match Wheelchair Ramp Grade. Adjustments Shall not be Paid for Separately but Considered Incidental to the Various Wheelchair Items.
- The Gutter Fronting the Wheelchair Ramps Shall Not Exceed a Slope of 20:1. Areas Without a Gutter Shall be Handled on a Case by Case Basis in Order to Meet the 20:1 Slope Requirements.
- The Gutter Fronting the 6 Foot Flares on Both Sides of the Wheelchair Ramps Shall Have a Transition Slope From 20:1 to the Existing Gutter Slope.
- When the Curb Exceeds the Standard 6 inch Height, the Side Flares and Ramp May be Greater Than 6 Feet in order to Meet the 12:1 Slope Requirements.
- All Sidewalks Must Provide a Minimum 3 Foot Wide (Excluding Curb) Clear Passing Space for Wheelchairs With Cross Slopes Not Exceeding 50:1.



GROOVED TACTILE WARNING SIGNAL
No Scale



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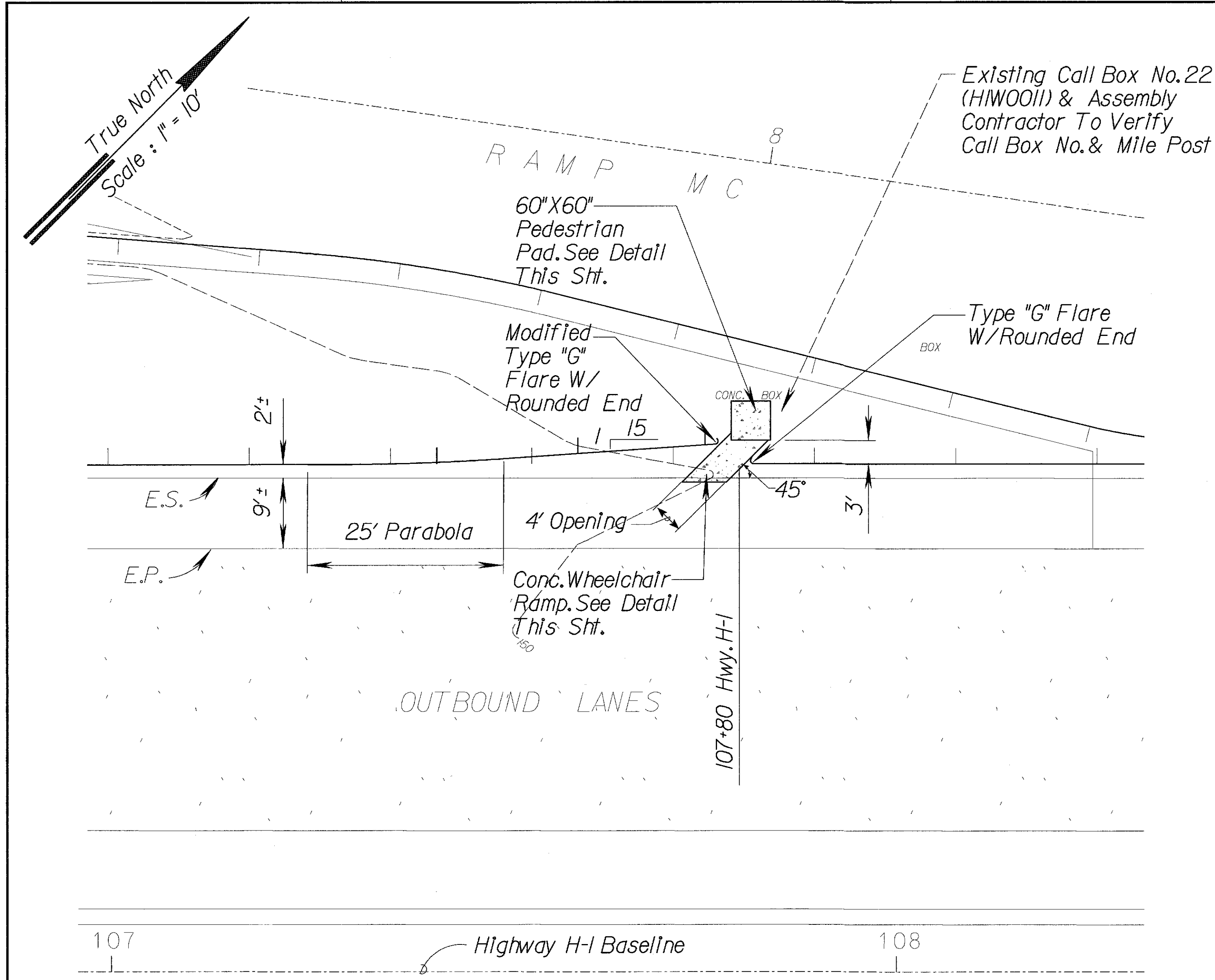
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WHEELCHAIR RAMP DETAILS & NOTES

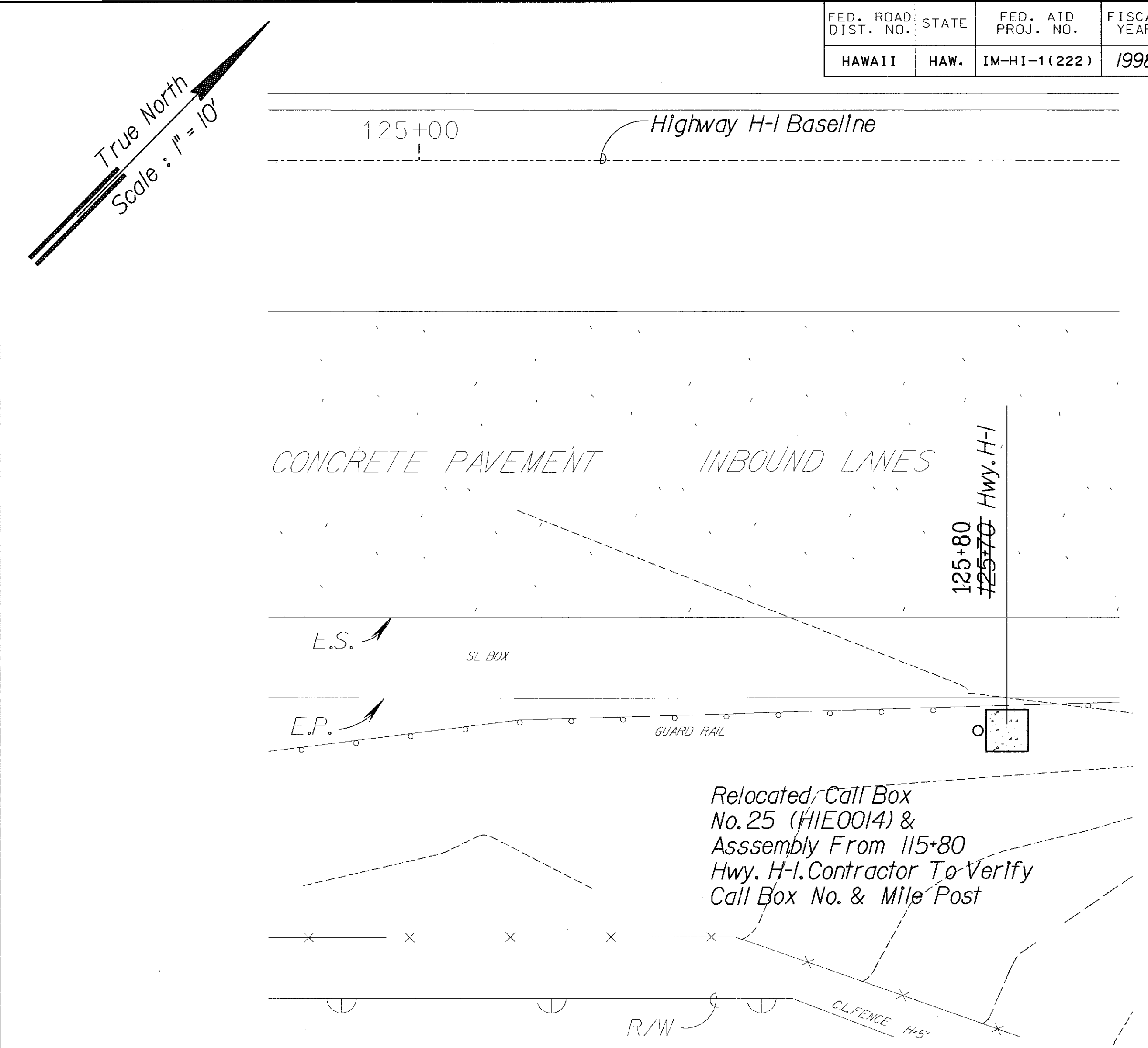
INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

Scale: As Shown Date: May 9, 1997
SHEET NO. R-7 OF 7 SHEETS

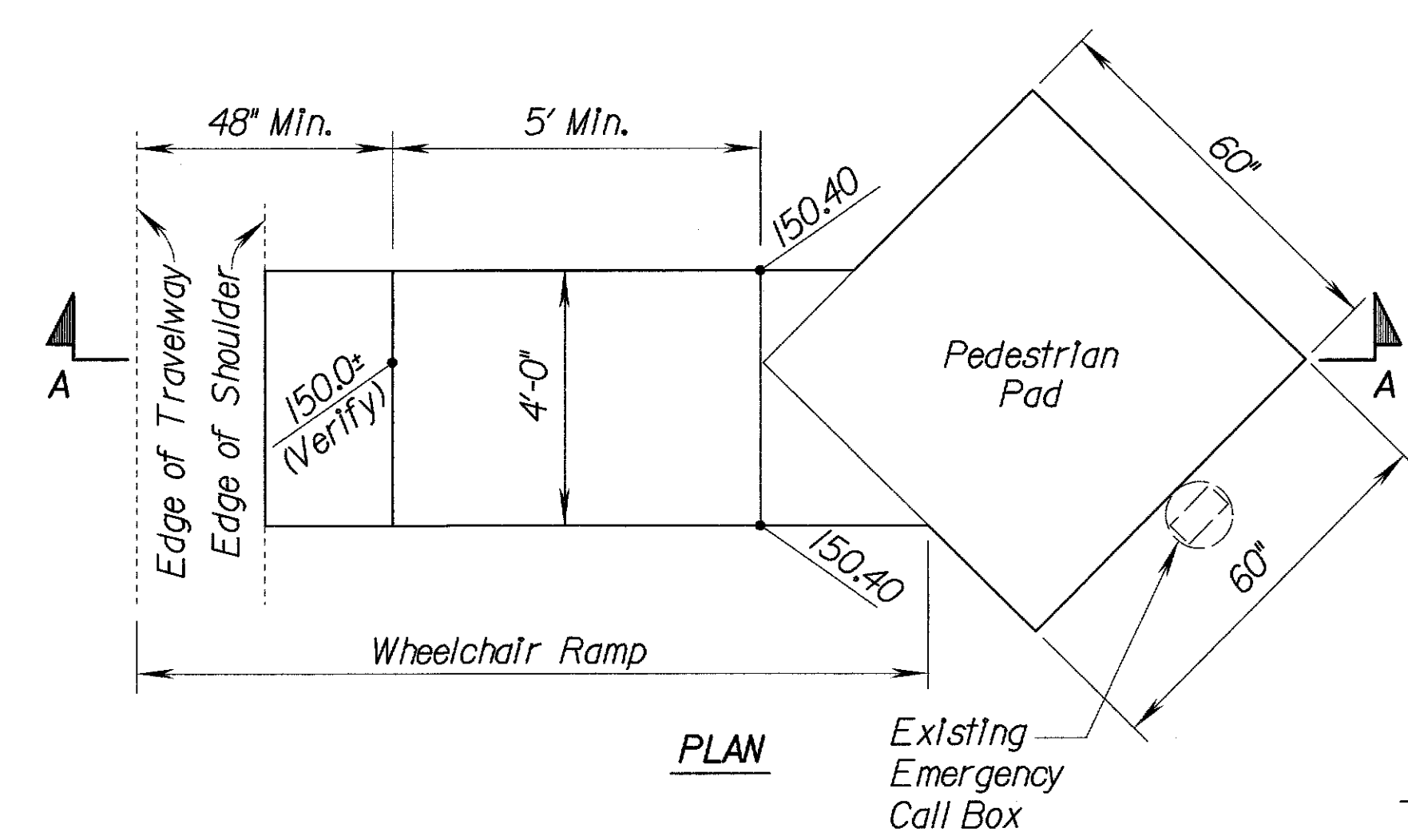
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(222)	1998	C.O. 16A	104



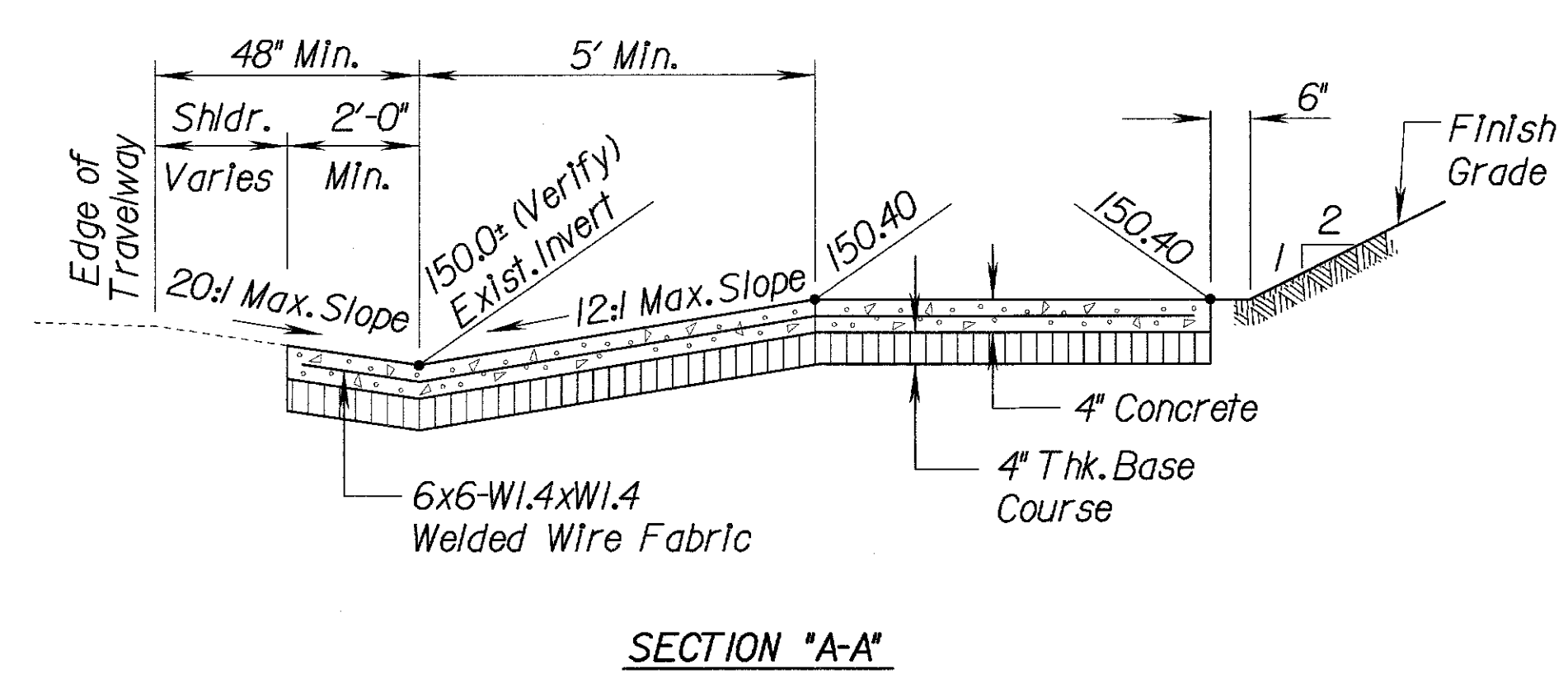
**EXISTING EMERGENCY CALL BOX
ACCESS DETAIL
@ H-1 OUTBOUND @ STA. 107+80**



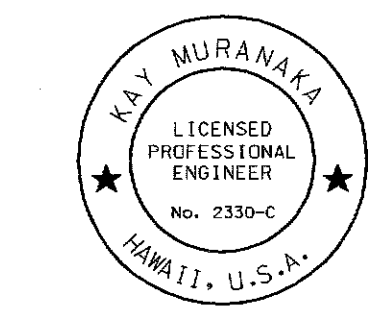
**EMERGENCY CALL BOX RELOCATION
FROM H-1 @ STA. 115+80 TO H-1 @ STA. 125+80**



**CONCRETE PEDESTRIAN PAD
WITH WHEELCHAIR RAMP**



SECTION "A-A"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EMERGENCY CALL BOX RELOCATION
INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

Scale: 1"=10' Date: November 12, 1997

SHEET NO. 1 OF 2 SHEETS

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

