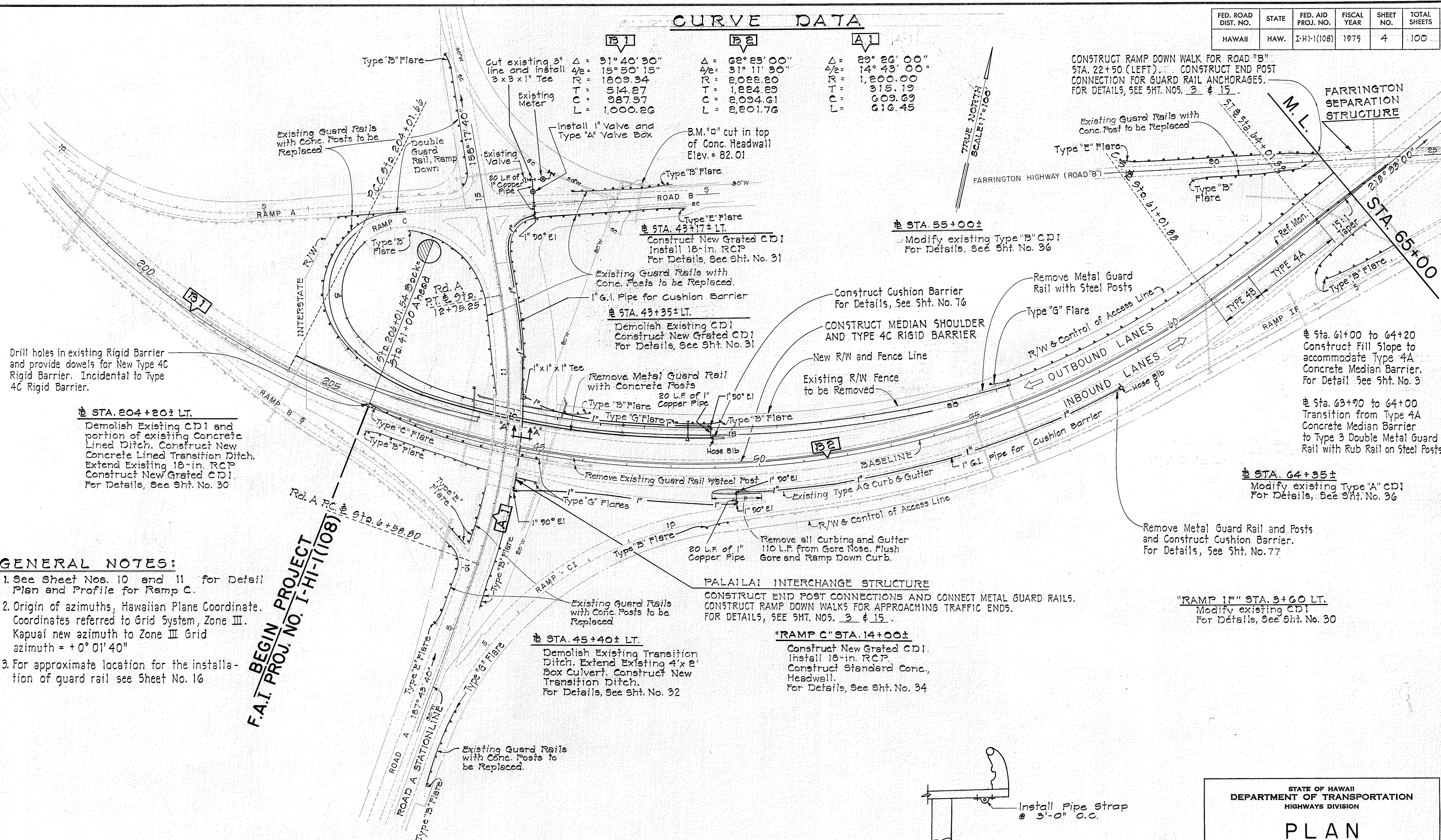


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(108)	1975	4	100

CURVE DATA

B1	B2	A1
$\Delta = 31^\circ 40' 30''$ $\Delta/2 = 15^\circ 50' 15''$ $R = 1809.34$ $T = 514.27$ $C = 387.57$ $L = 1,000.26$	$\Delta = 62^\circ 23' 00''$ $\Delta/2 = 31^\circ 11' 30''$ $R = 2,022.20$ $T = 1,224.29$ $C = 2,094.61$ $L = 2,801.76$	$\Delta = 29^\circ 26' 00''$ $\Delta/2 = 14^\circ 43' 00''$ $R = 1,200.00$ $T = 315.19$ $C = 609.09$ $L = 616.45$



GENERAL NOTES:

- See Sheet Nos. 10 and 11 for Detail Plan and Profile for Ramp C.
- Origin of azimuths, Hawaiian Plane Coordinate. Coordinates referred to Grid System, Zone III. Kapuai new azimuth to Zone III Grid azimuth = $+0^\circ 01' 40''$
- For approximate location for the installation of guard rail see Sheet No. 16

F.A.I. PROJ. NO. I-HI-1(108)

SECTION "A-A"
N.T.S.

STATE OF HAWAII
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HIGHWAYS DIVISION

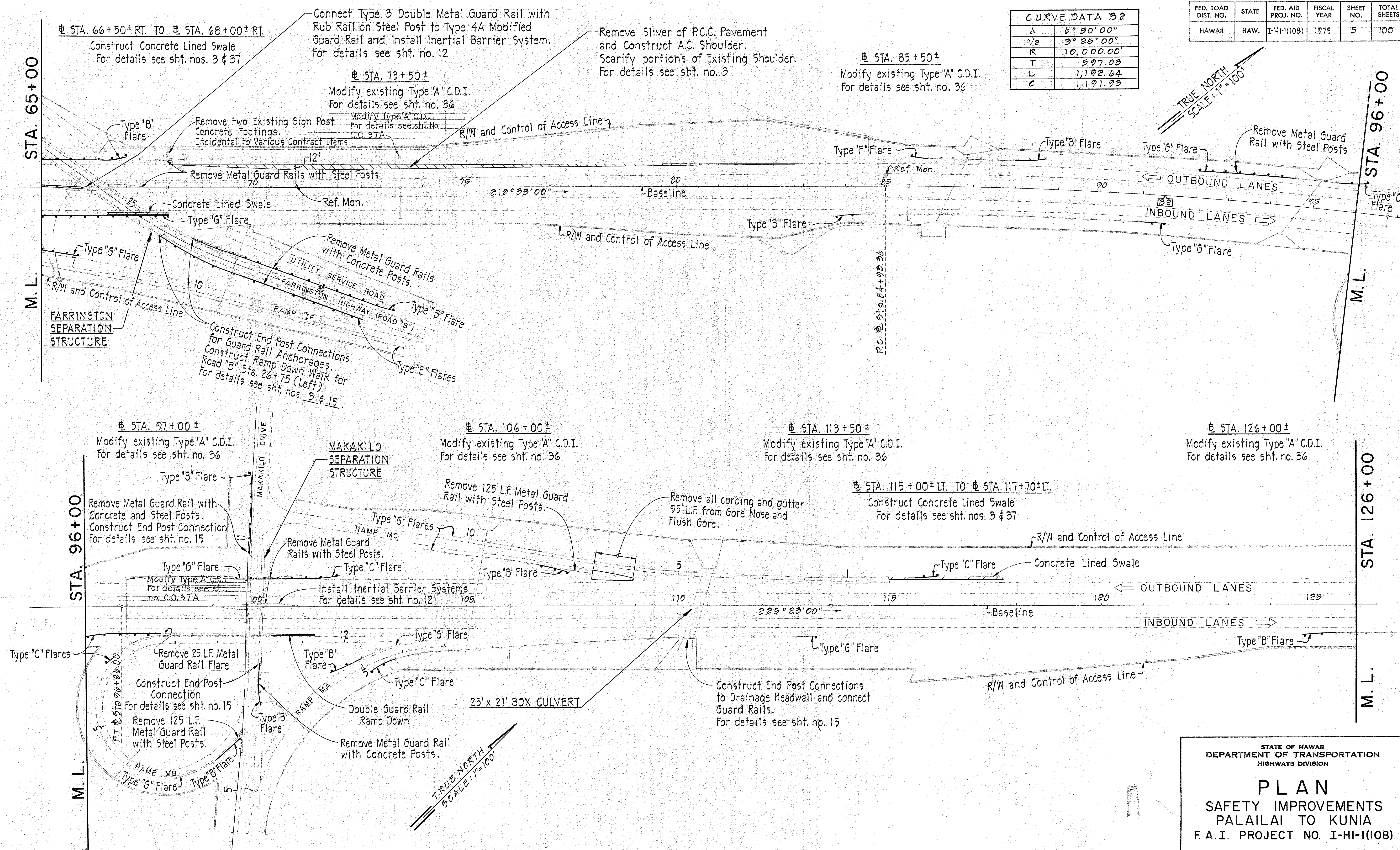
PLAN
SAFETY IMPROVEMENTS
PALAILAI TO KUNIA
F.A.I. PROJECT NO. I-HI-1(108)

SHEET No. 19 OF 68 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(108)	1975	5	100

CURVE DATA B2	
Δ	$6^{\circ} 50' 00''$
$\Delta/2$	$3^{\circ} 25' 00''$
R	10,000.00'
T	597.03
L	1,192.64
C	1,191.93



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

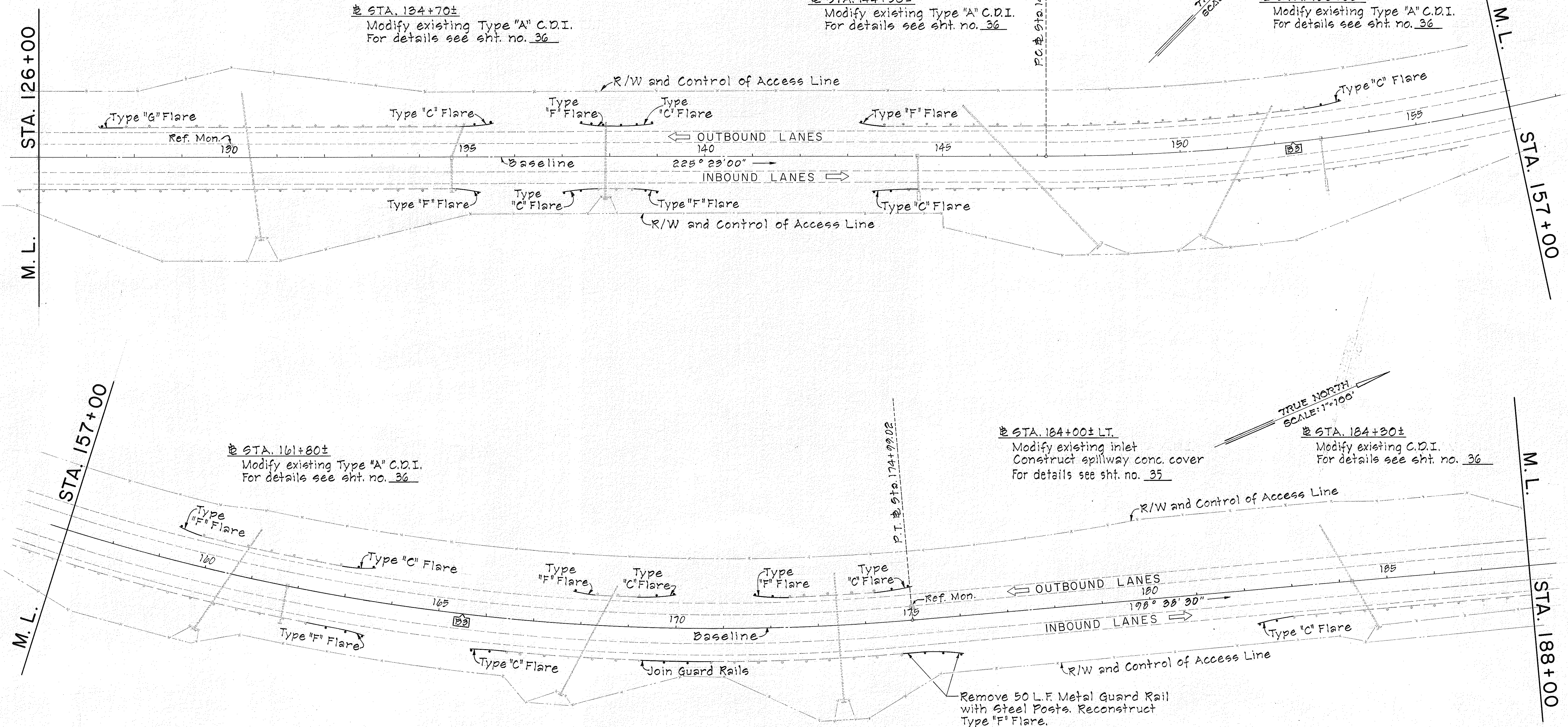
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

SAFETY IMPROVEMENTS
PALAILAI TO KUNIA
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SHEET No. 2 OF 60 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(108)	1975	6	100



CURVE DATA B3	
Δ	34° 44' 30"
Δ/2	17° 22' 15"
R	4,583.66'
T	1,433.87'
L	2,779.33'
C	2,736.93'

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SHEET No. 3 OF 6 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

CURVE DATA B4			
CIRCULAR		SPIRAL	
Δ	28°04'30"	Δ	35°34'30"
Δ/2	14°02'15"	DC	2°30'00"
R	2,291.83'	ES	3°45'00"
T	573.01'	LS	300.00'
L	1,123.00'	TS	885.78'
C	1,111.80'	ES	116.77'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(108)	1975	7	100

± STA. 192+00±
Modify existing Type "B" C.D.I.
For details see sht. no. 36

± STA. 214+00±
Modify existing Type "A" C.D.I.
For details see sht. no. 36

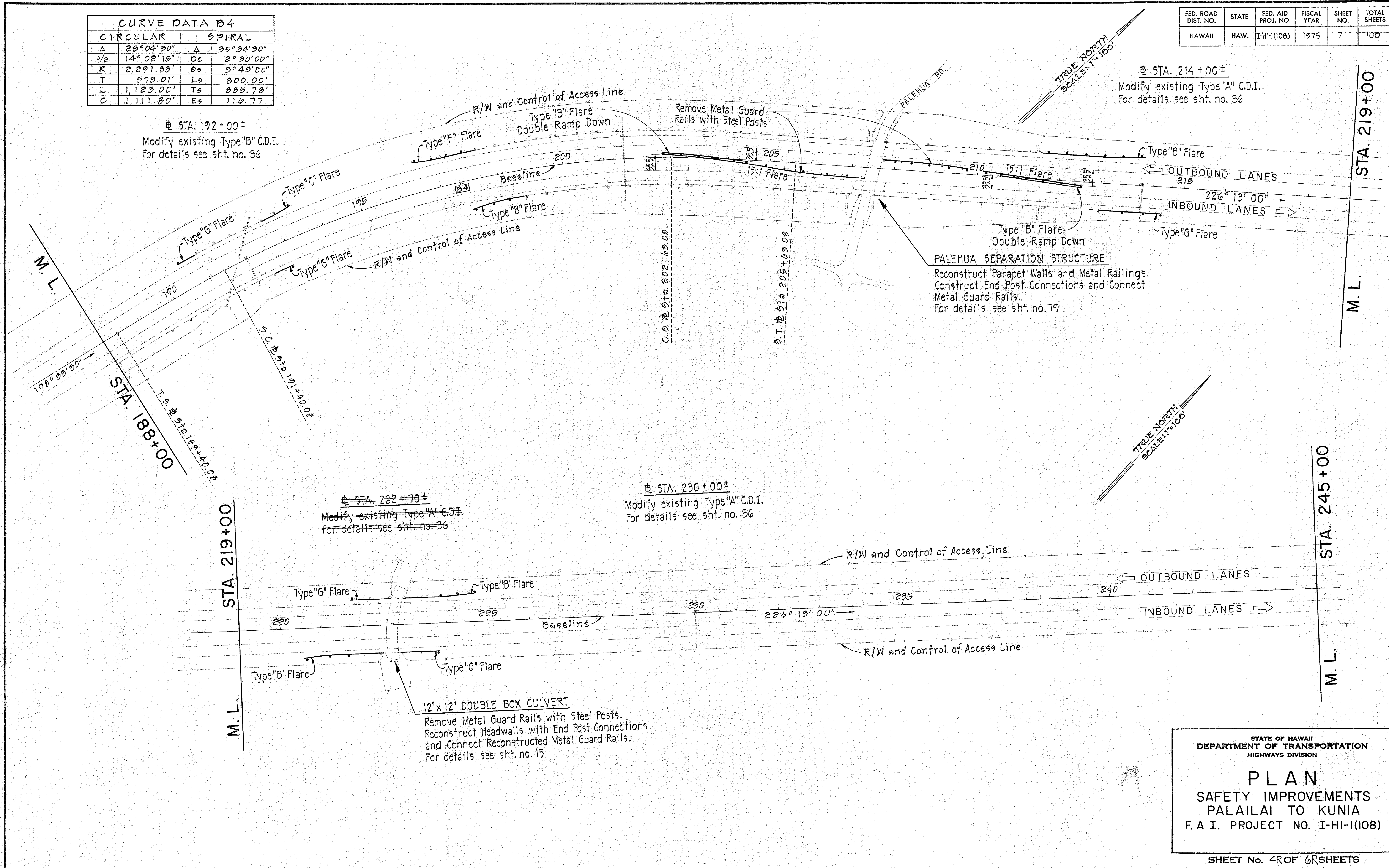
PALEHUA SEPARATION STRUCTURE
Reconstruct Parapet Walls and Metal Railings.
Construct End Post Connections and Connect Metal Guard Rails.
For details see sht. no. 79

± STA. 222+70±
Modify existing Type "A" C.D.I.
For details see sht. no. 36

± STA. 230+00±
Modify existing Type "A" C.D.I.
For details see sht. no. 36

12' x 12' DOUBLE BOX CULVERT
Remove Metal Guard Rails with Steel Posts.
Reconstruct Headwalls with End Post Connections
and Connect Reconstructed Metal Guard Rails.
For details see sht. no. 15

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
DATE	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

SAFETY IMPROVEMENTS
PALAILAI TO KUNIA
F.A.I. PROJECT NO. I-HI-1(108)

SHEET No. 4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(108)	1975	8	100

CURVE DATA		
	B5	B6
Δ	21°02'30"	8°23'30"
$\Delta/2$	10°31'15"	4°11'45"
R	4,583.66'	6,500.00'
T	851.26'	476.86'
L	1,683.33'	952.00'
C	1,673.89'	951.15'

STA. 261+30±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

STA. 265+20±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

STA. 272+00±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

STA. 248+00±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

Modify existing C.D.I.
 For Details, See Sht. No. C.O. 37B.

STA. 258+40±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

STA. 268+50±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

STA. 275+50±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

Remove Metal Guard Rails
 with Steel Posts.

STA. 280+30±
 Modify existing Type "B" C.D.I.
 For Details, See Sht. No. 36

STA. 284+00±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

STA. 287+50±
 Modify existing Type "A" C.D.I.
 For Details, See Sht. No. 36

Modify existing C.D.I.
 For details see sht.
 no. C.O. 37 B

STA. 278+50±
 Modify existing Type "B" C.D.I.
 For Details, See Sht. No. 36

Modify Existing
 C.D.I. For details
 see sht. no. C.O. 37B

Remove Metal Guard
 Rails with Steel Posts

24" Irrigation Force Main
 (Oahu Sugar Co.)

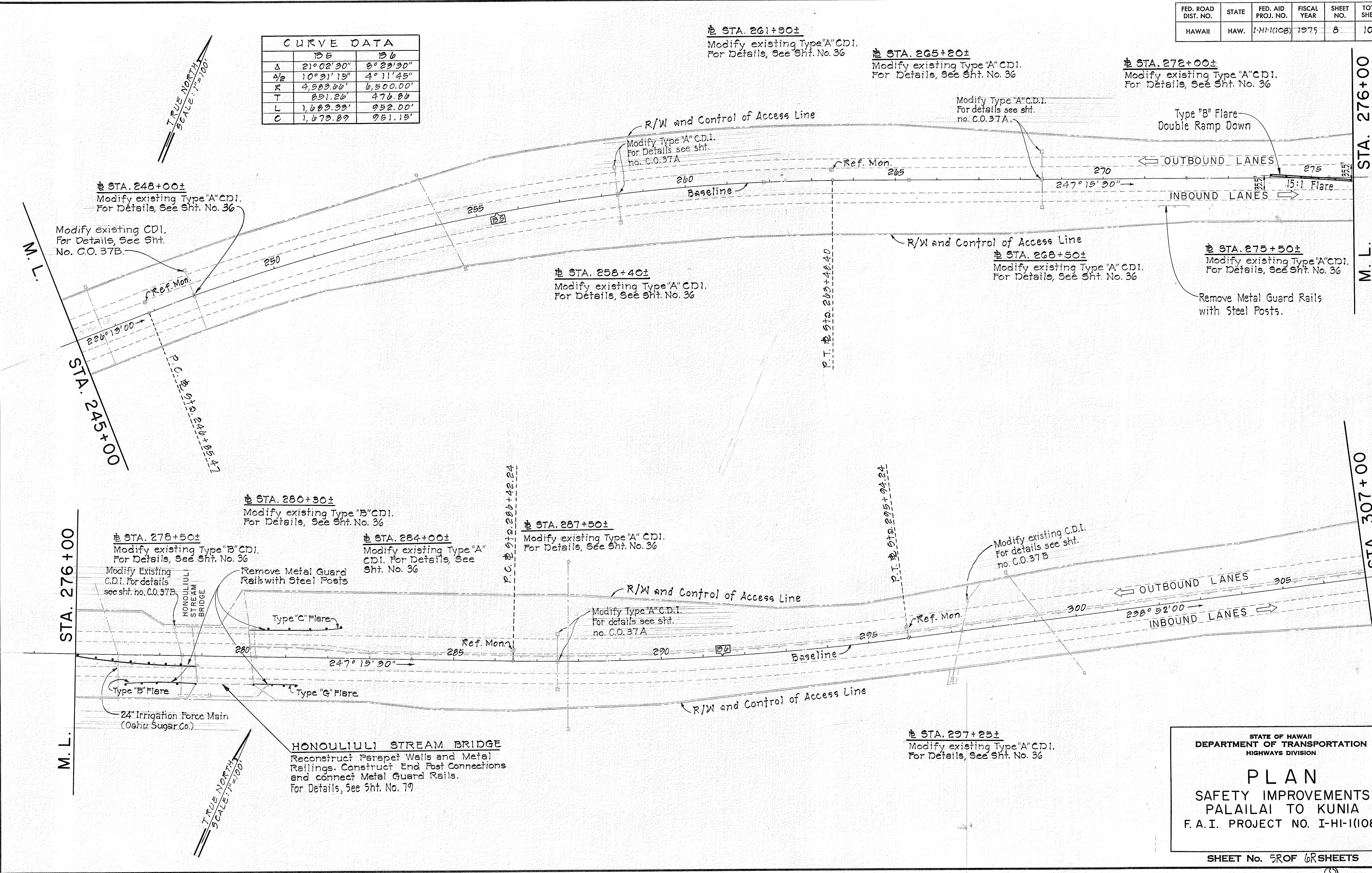
HONOULIULI STREAM BRIDGE
 Reconstruct Parapet Walls and Metal
 Railings. Construct End Post Connections
 and connect Metal Guard Rails.
 For Details, See Sht. No. 79

STATE OF HAWAII
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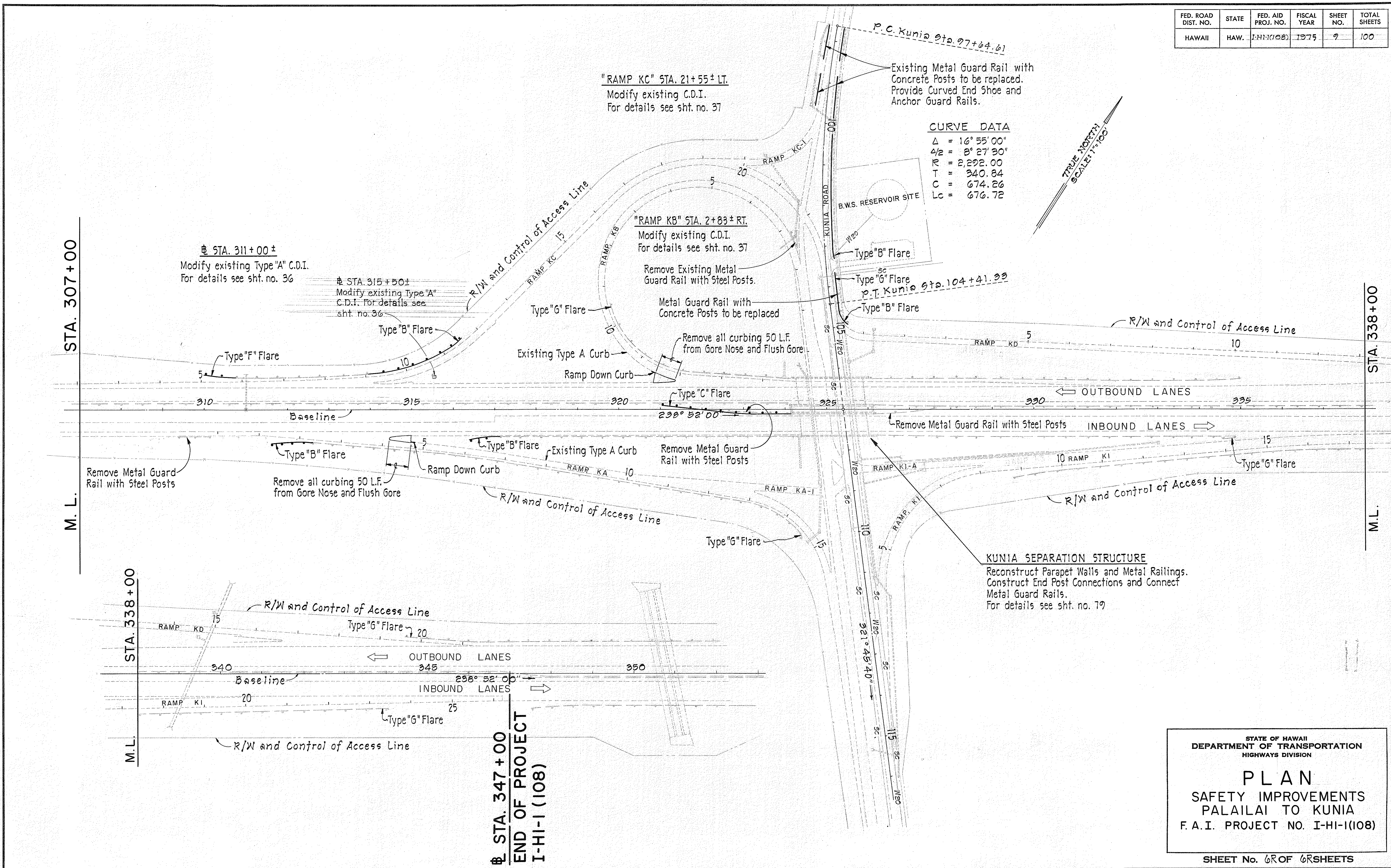
SHEET No. 5 OF 6 SHEETS

ORIGINAL PLAN	DATE
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(108)	1975	9	100

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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SHEET No. 6 OF 6 SHEETS