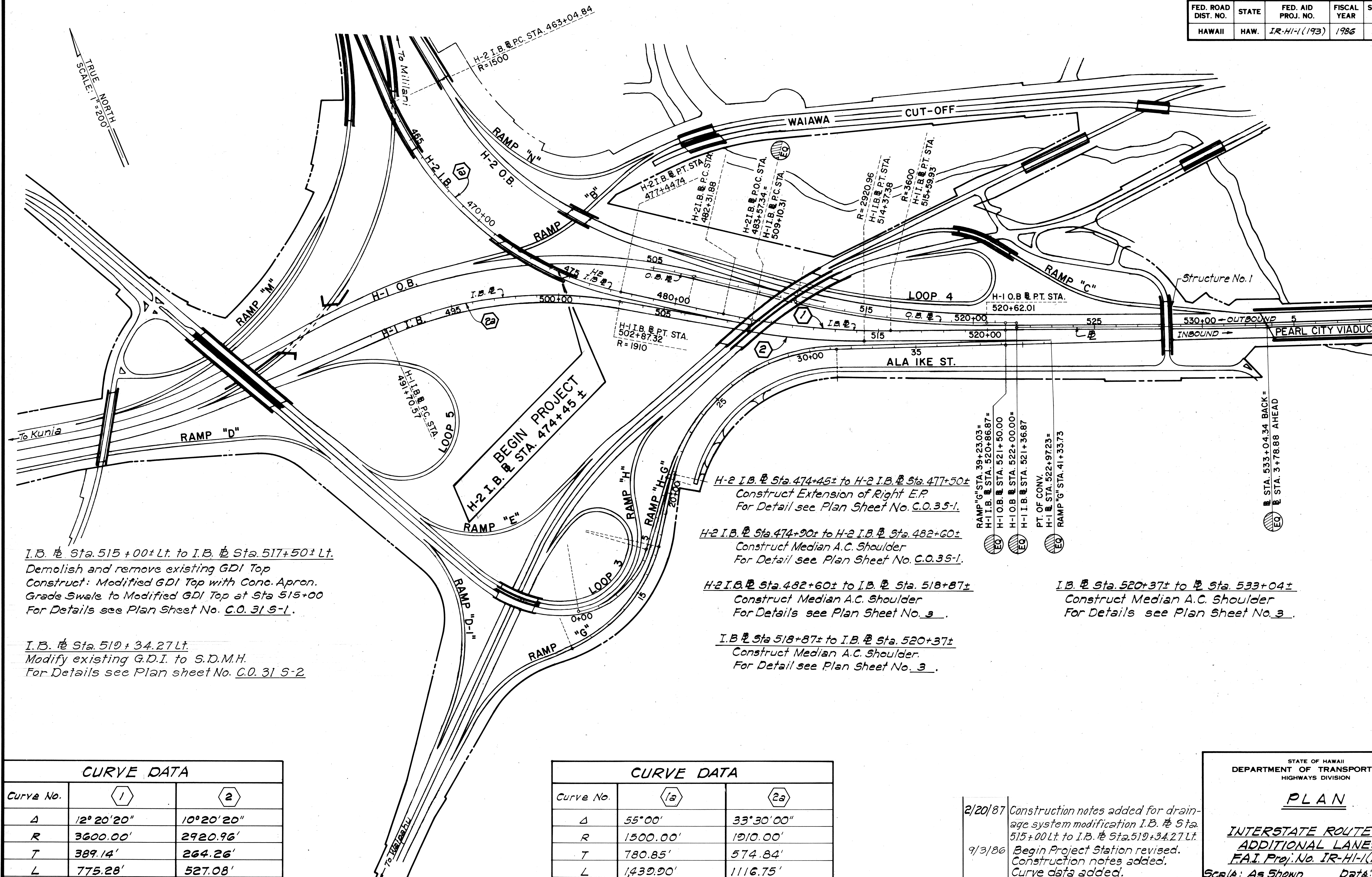


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	10	62



I.B. Sta. 515+00± Lt. to I.B. Sta. 517+50± Lt.
Demolish and remove existing GDI Top
Construct: Modified GDI Top with Conc. Apron.
Grade Swale to Modified GDI Top at Sta 515+00
For Details see Plan Sheet No. C.O. 31 S-1.

I.B. Sta. 519+34.27 Lt.
Modify existing G.D.I. to S.D.M.H.
For Details see Plan sheet No. C.O. 31 S-2

H-2 I.B. Sta. 474+45± to H-2 I.B. Sta. 477+50±
Construct Extension of Right E.P.
For Detail see Plan Sheet No. C.O. 35-1.

H-2 I.B. Sta. 474+90± to H-2 I.B. Sta. 482+60±
Construct Median A.C. Shoulder
For Detail see Plan Sheet No. C.O. 35-1.

H-2 I.B. Sta. 482+60± to I.B. Sta. 518+87±
Construct Median A.C. Shoulder
For Details see Plan Sheet No. 3.

I.B. Sta. 518+87± to I.B. Sta. 520+37±
Construct Median A.C. Shoulder.
For Detail see Plan Sheet No. 3.

I.B. Sta. 520+37± to I.B. Sta. 533+04±
Construct Median A.C. Shoulder
For Details see Plan Sheet No. 3.

RAMP "G" STA. 39+23.03±
H-1 I.B. Sta. 520+86.87±
H-1 O.B. Sta. 521+50.00±
H-1 I.B. Sta. 522+00.00±
H-1 I.B. Sta. 521+36.87±
PT. OF CONV.
H-1 I.B. Sta. 522+97.23±
RAMP "G" STA. 41+33.73±

STA. 533+04.34 BACK =
STA. 3+78.88 AHEAD

CURVE DATA

Curve No.	1	2
Δ	12° 20' 20"	10° 20' 20"
R	3600.00'	2920.96'
T	389.14'	264.26'
L	775.28'	527.08'
S.E.	0.045 ft./ft.	0.045 ft./ft.

CURVE DATA

Curve No.	1a	2a
Δ	55° 00'	33° 30' 00"
R	1500.00'	1910.00'
T	780.85'	574.84'
L	1439.90'	1116.75'
S.E.	0.099 ft./ft.	0.083 ft./ft.

2/20/87 Construction notes added for drainage system modification I.B. Sta. 515+00 Lt. to I.B. Sta. 519+34.27 Lt.
9/3/86 Begin Project Station revised. Construction notes added. Curve data added.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

INTERSTATE ROUTE H-1
ADDITIONAL LANES
F.A.I. Proj. No. IR-HI-1(193)
Scale: As Shown Date: Aug, 1985
SHEET NO. 1 OF 6 SHEETS

C.O. 10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	11	62

P.T. STA. 58+40.55 AHEAD =
 P.T. STA. 58+38.84 BACK

R=700.00
 RAMP C P.C. STA.
 57+85.42

RAMP C STA. 0+00 =
 STA. 61+26.52

3

OUTBOUND AS
 INBOUND

P.C. STA. 29+29.73
 R=3600.00

LEHUA

PEARL CITY VIADUCT

KAMEHAMEHA

HIGHWAY

TRUE NORTH
 SCALE: 1"=200'

STA. 533+04.34 BACK =
 STA. 3+78.88 AHEAD

Sta. 3+70± to Sta. 62+67± I.B. & O.B. Lanes
 Install Preformed Joint Seals for Pearl
 City Viaduct - 4,400± L.F. For Details
 see Plan Sheet Nos. 32-36.

Sta. 27+65± to Sta. 59+80± I.B. Lanes
 Modify 17 Existing Deck Storm Drain
 Grates. For Details see Plan Sheet No. 30.

CURVE DATA

Curve No.	3
Δ	46°18'00"
R	3600.00'
T	1539.24'
L	2909.11'
S.E.	0.062 ft./ft.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN

INTERSTATE ROUTE H-1
 ADDITIONAL LANES
 F.A.I. Proj. No. IR-HI-1(193)

Scale: As Shown Date: Aug., 1985
 SHEET NO. 2 OF 6 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1 (193)	1986	12	62

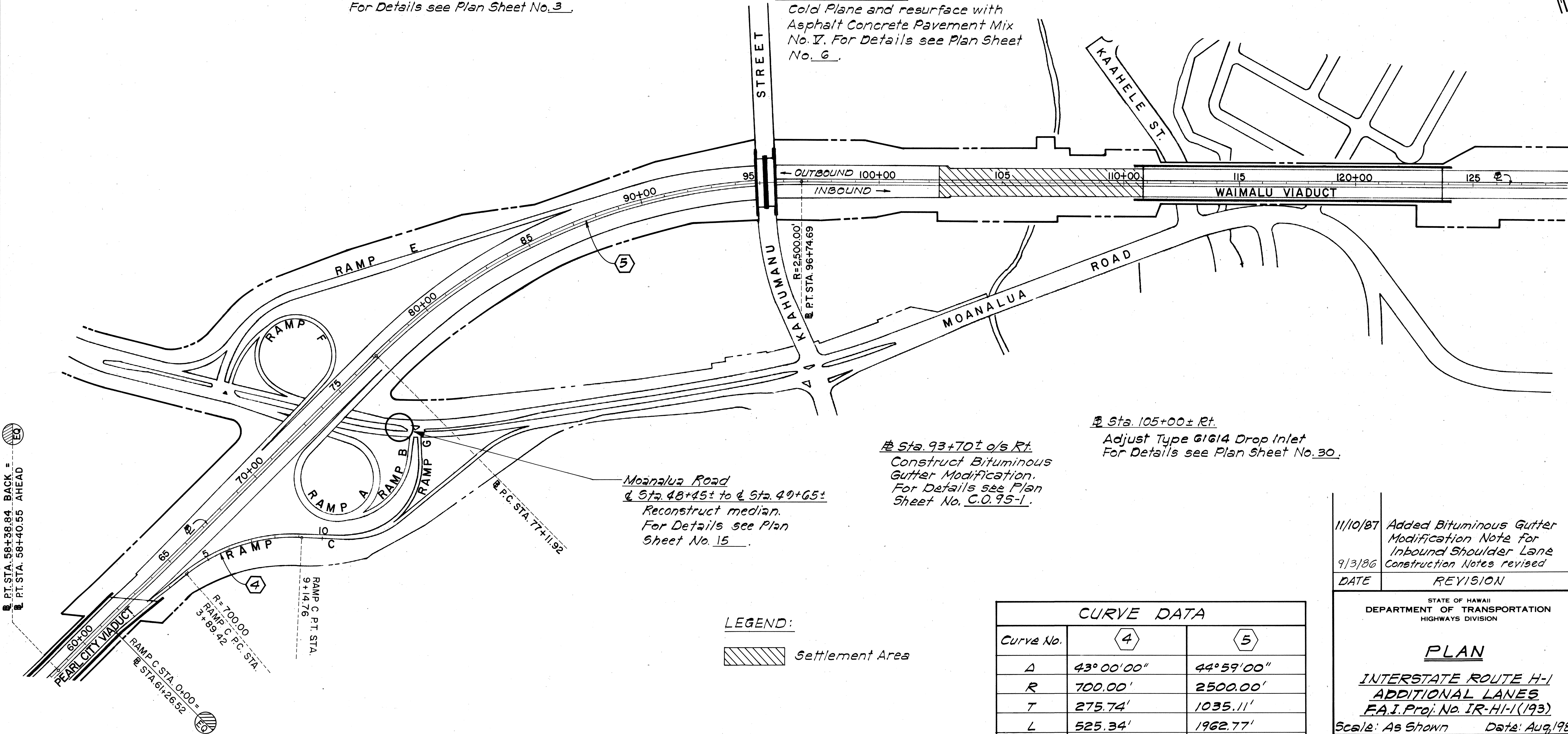
@ Sta. 62+07± to @ Sta. 72+22±, I.B.
 @ Sta. 75+10± to @ Sta. 97+00±, I.B.
 Construct Median P.C.C. Shoulder.
 For Details see Plan Sheet No. 3.

@ Sta. 97+00± to @ Sta. 102+44±, I.B. & O.B.
 Construct Median P.C.C. Shoulders
 For Details see Plan Sheet No. 3.

@ Sta. 102+44± to @ Sta. 111+04±, I.B. & O.B. Lanes
 Settlement Area I-
 Cold Plane and resurface with
 Asphalt Concrete Pavement Mix
 No. V. For Details see Plan Sheet
 No. 6.

@ Sta. 111+04± to @ Sta. 123+74±, I.B. & O.B. Lanes
 Install Preformed Joint Seals for Waimalu
 Viaduct-570± L.F. For Details see Plan
 Sheet Nos. 32 & 37.

TRUE NORTH
 SCALE: 1"=500'



LEGEND:

Settlement Area

CURVE DATA		
Curve No.	4	5
Δ	43° 00' 00"	44° 59' 00"
R	700.00'	2500.00'
T	275.74'	1035.11'
L	525.34'	1962.77'
S.E.	0.02 ft./ft.	0.0650 ft./ft.

11/10/87	Added Bituminous Gutter Modification Note for Inbound Shoulder Lane
9/3/86	Construction Notes revised
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PLAN	
INTERSTATE ROUTE H-1 ADDITIONAL LANES F.A.I. Proj. No. IR-HI-1 (193)	
Scale: As Shown	Date: Aug. 1985
SHEET NO. 3 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	13	62

TRUE NORTH
SCALE: 1"=200'

Sta. 123+74± to Sta. 144+84±
Construct Median P.C.C. Shoulders.
For Details see Plan Sheet No. 3.

Sta. 144+84± to Sta. 149+64±, I.B. & O.B. Lanes
Settlement Area II
Cold Plane and resurface with Asphalt Concrete
Pavement Mix No. V.
For Details see Plan Sheet No. 6.

Sta. 162+70± to Sta. 168+70±, I.B. Lanes
Settlement Area III
Cold Plane, Thermal Crack Seal and resurface
with Asphalt Concrete Pavement Mix No. V.
For Details see Plan Sheet No. 7.

Sta. 149+64± to Sta. 162+70±
Construct Median P.C.C. Shoulders.
For Details see Plan Sheet No. 3.

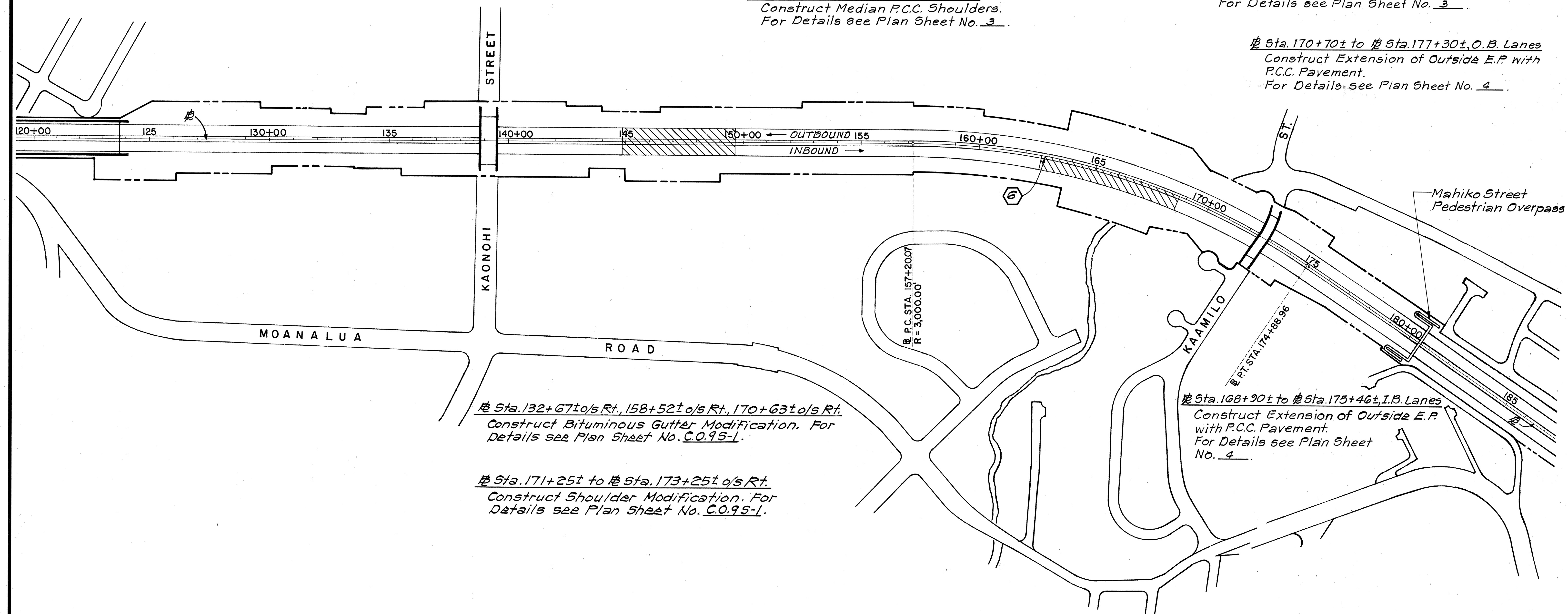
Sta. 168+70± to Sta. 175+20±
Construct Median P.C.C. Shoulders.
For Details see Plan Sheet No. 3.

Sta. 170+70± to Sta. 177+30±, O.B. Lanes
Construct Extension of Outside E.P. with
P.C.C. Pavement.
For Details see Plan Sheet No. 4.

Sta. 132+67± o/s Rt., 158+52± o/s Rt., 170+63± o/s Rt.
Construct Bituminous Gutter Modification. For
Details see Plan Sheet No. C.O.95-1.

Sta. 171+25± to Sta. 173+25± o/s Rt.
Construct Shoulder Modification. For
Details see Plan Sheet No. C.O.95-1.

Sta. 168+90± to Sta. 175+46±, I.B. Lanes
Construct Extension of Outside E.P.
with P.C.C. Pavement.
For Details see Plan Sheet
No. 4.



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

CURVE DATA	
Curve No.	6
Δ	33° 47' 00"
R	3000.00'
T	910.99'
L	1768.89'
S.E.	0.056 ft./ft.

LEGEND:

Settlement Area

11/10/87	Added Bituminous Gutter Modification and Shoulder Modification Notes for Inbound Shoulder Lane.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

INTERSTATE ROUTE H-1
ADDITIONAL LANES
F.A.I. Proj. No. IR-HI-1(193)

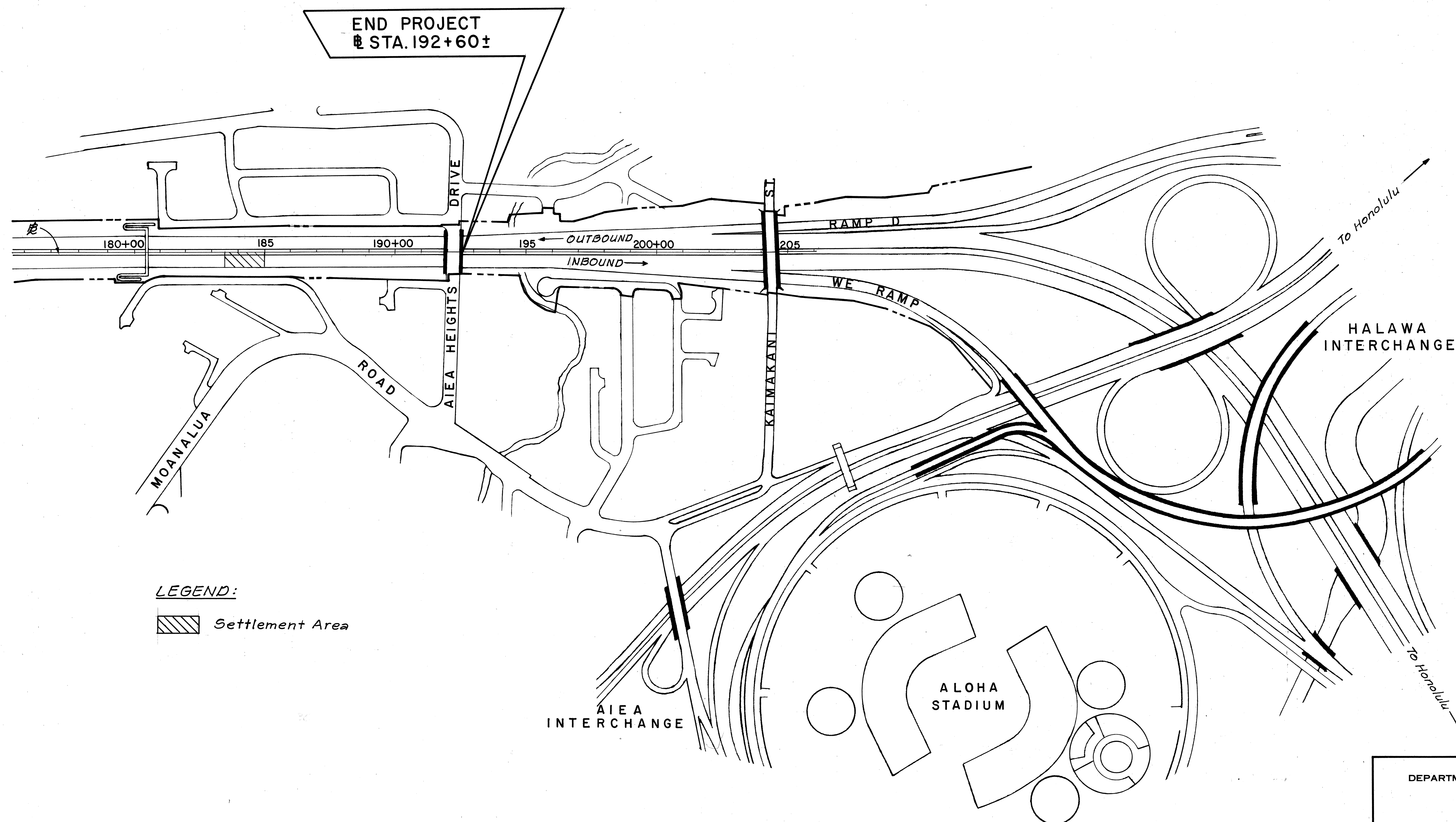
Scale: As Shown Date: Aug., 1985

SHEET NO. 4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	14	62

I.B. Sta. 183+50± to Sta. 185+00±, I.B. Lanes
Settlement Area IV
 Cold Plane and resurface with Asphalt
 Concrete Pavement Mix No. V.
 For Details see Plan Sheet No. 3.

TRUE NORTH
 SCALE: 1" = 200'



LEGEND:
 Settlement Area

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

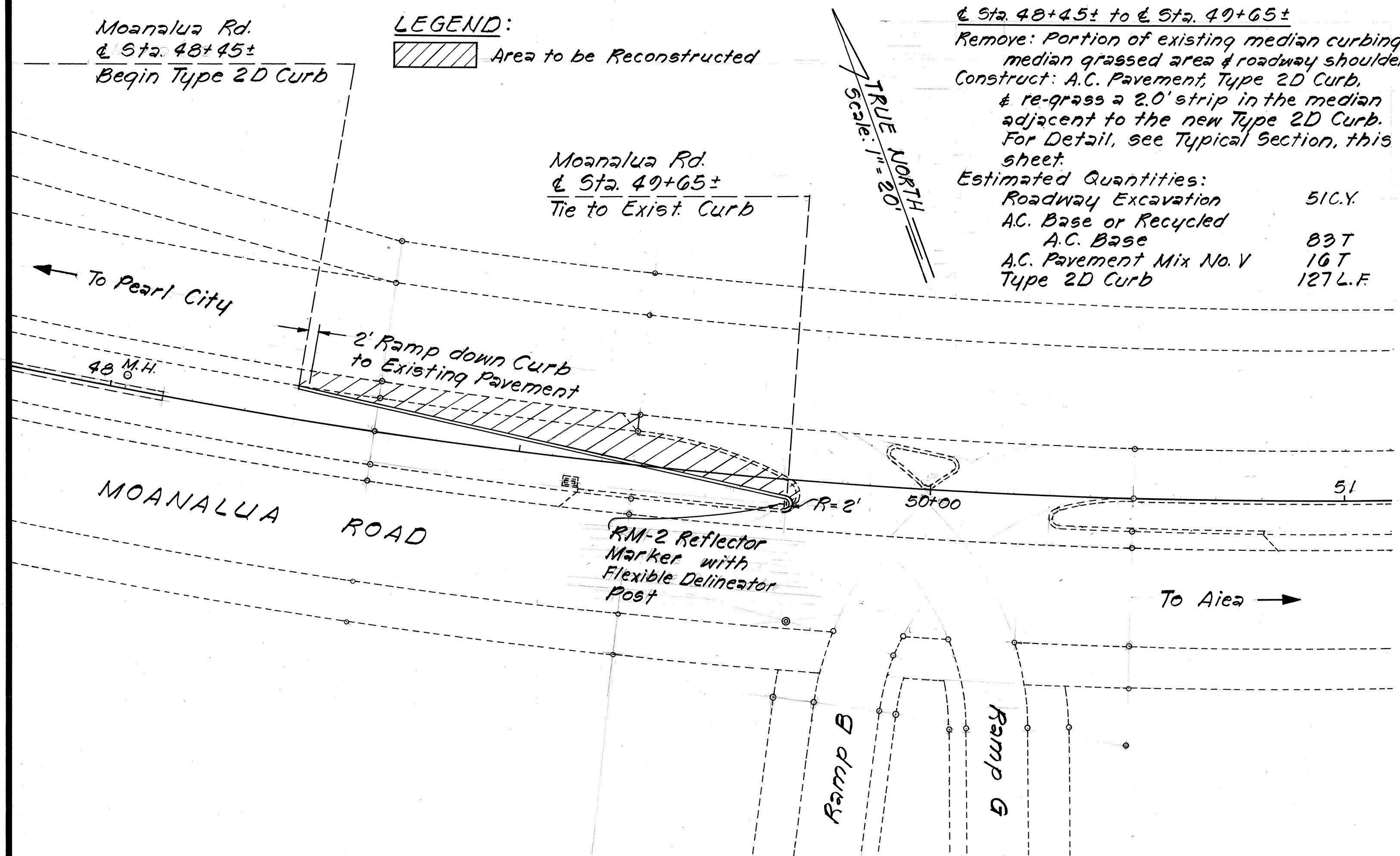
PLAN

**INTERSTATE ROUTE H-1
 ADDITIONAL LANES**
 F.A.I. Proj. No. IR-HI-1(193)

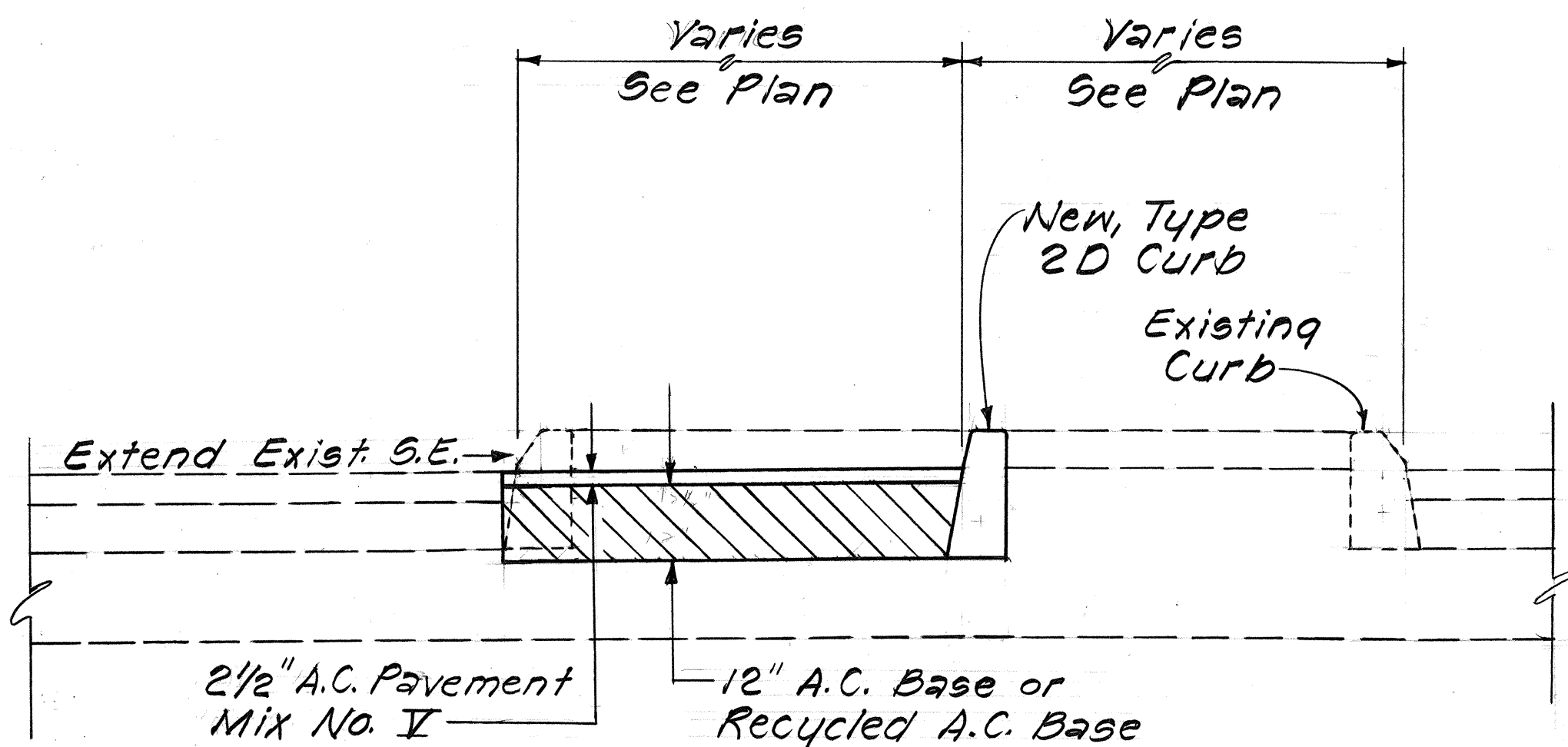
Scale: As Shown Date: Aug, 1985

SHEET No. 5 OF 6 SHEETS

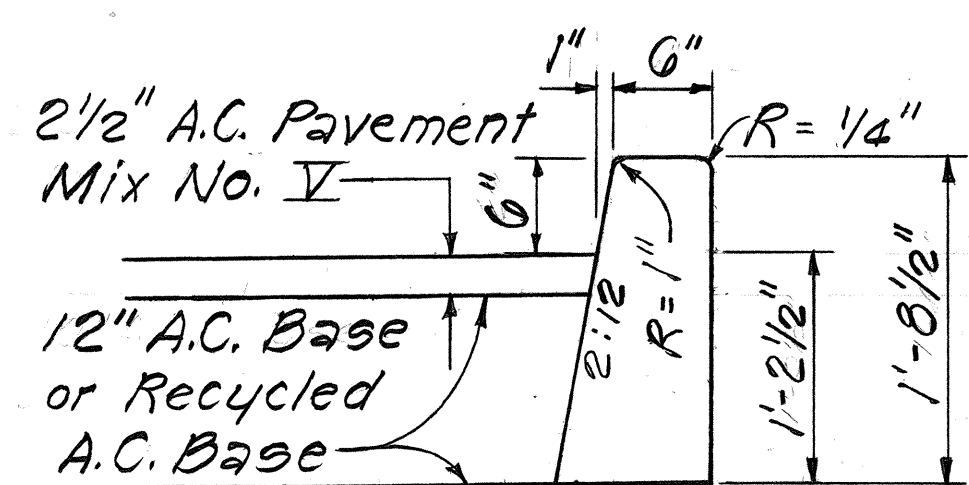
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	15	62



PLAN
Scale: 1"=20.0'

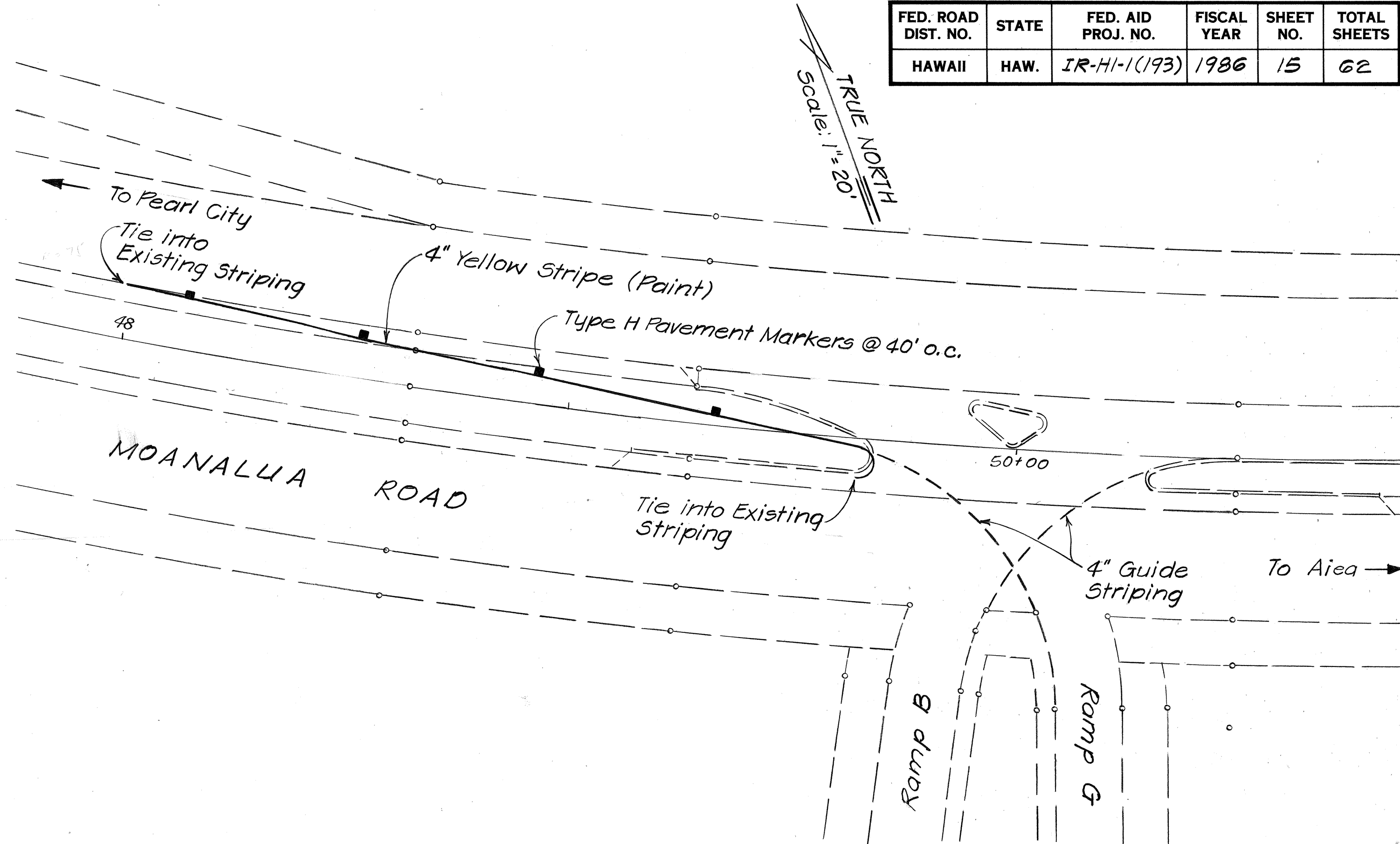


TYPICAL SECTION
@ Sta. 48+45± to @ Sta. 49+65±
Scale: 1/2"=1'-0"



CURB, TYPE 2D
Scale: 1"=1'-0"

@ Sta. 48+45± to @ Sta. 49+65±
Remove: Portion of existing median curbing, median grassed area & roadway shoulder.
Construct: A.C. Pavement, Type 2D Curb, & re-grass a 2.0' strip in the median adjacent to the new Type 2D Curb.
For Detail, see Typical Section, this sheet.
Estimated Quantities:
Roadway Excavation 510.Y
A.C. Base or Recycled 83.T
A.C. Base 16.T
A.C. Pavement Mix No. V 127.L.F
Type 2D Curb



PAVEMENT MARKING PLAN
Scale: 1"=20'-0"

NOTES:

1. The top of concrete curb shall be longitudinally broom finished.
2. The Contractor shall construct a smooth transition from the new Type 2D Curb to the existing curb.
3. The existing A.C. Pavement shall be saw cut prior to excavation. Saw cutting of existing A.C. Pavement will not be measured and paid for separately but shall be considered incidental to Roadway Excavation.
4. The Contractor shall furnish and install one RM-2 Reflector Marker with Flexible Delineator Post, Type B, as shown on the plans or as directed by the Engineer. This work shall be considered incidental to the various contract items.
5. The Contractor shall re-grass a 2.0' strip in the median area adjacent to the new Type 2D Curb. The Contractor shall regrade as required, provide topsoil and re-grass with comparable vegetation, as directed by the Engineer. This work shall be considered incidental to the various contract items.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MOANALUA ROAD
MEDIAN RECONSTRUCTION

Interstate Route H-1
Additional Lanes
F.A.I.P. No. IR-HI-1(193)

Scale: As Shown Date: Nov, 1985

SHEET No. 6 OF 6 SHEETS

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