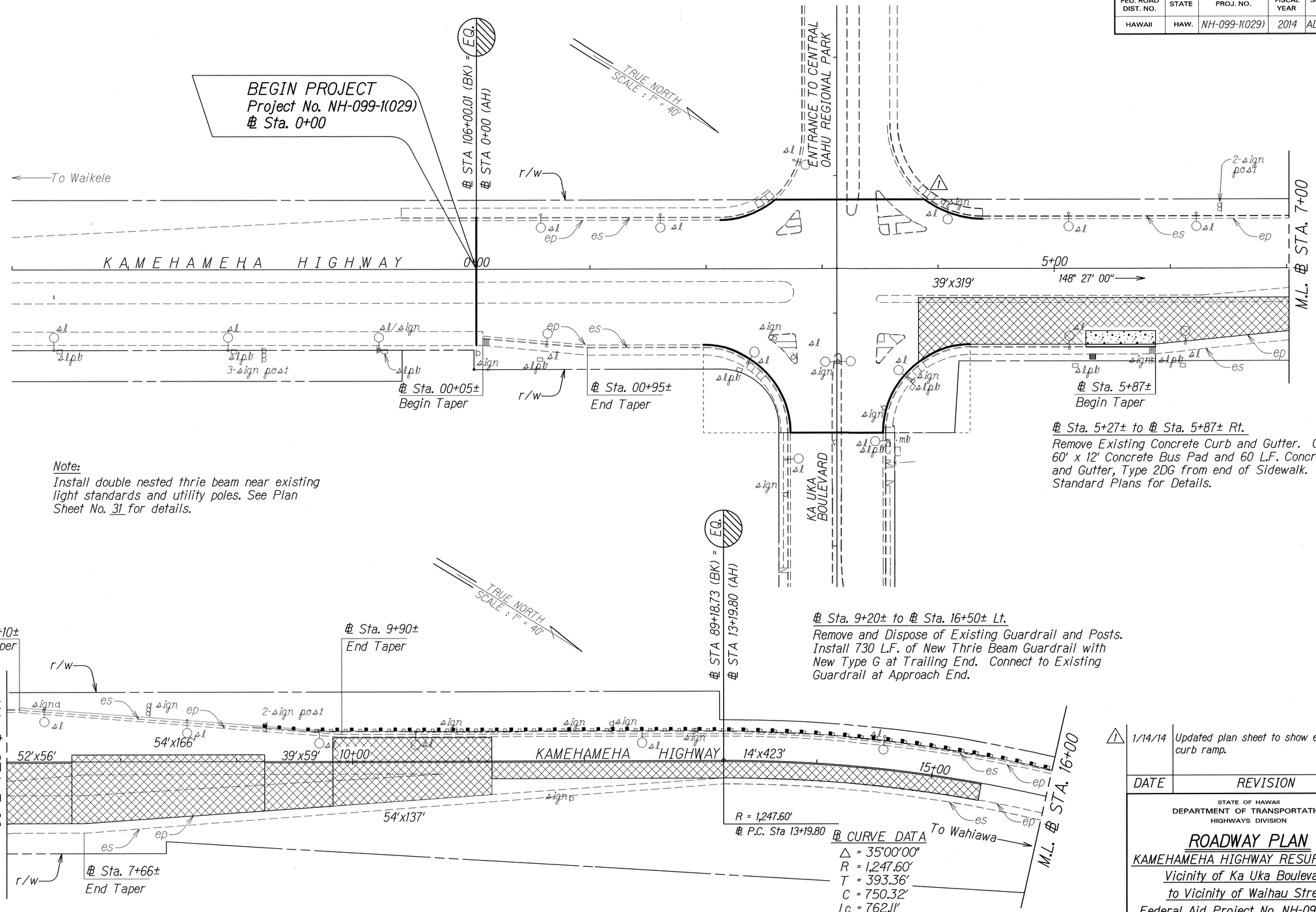
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	ADD.37	84



Note:
Install double nested thrie beam near existing light standards and utility poles. See Plan Sheet No. 31 for details.

℄ Sta. 5+27± to ℄ Sta. 5+87± Rt.
Remove Existing Concrete Curb and Gutter. Construct 60' x 12' Concrete Bus Pad and 60 L.F. Concrete Curb and Gutter, Type 2DG from end of Sidewalk. See Standard Plans for Details.

℄ Sta. 9+20± to ℄ Sta. 16+50± Lt.
Remove and Dispose of Existing Guardrail and Posts. Install 730 L.F. of New Thrie Beam Guardrail with New Type G at Trailing End. Connect to Existing Guardrail at Approach End.

DATE	REVISION
1/14/14	Updated plan sheet to show existing curb ramp.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

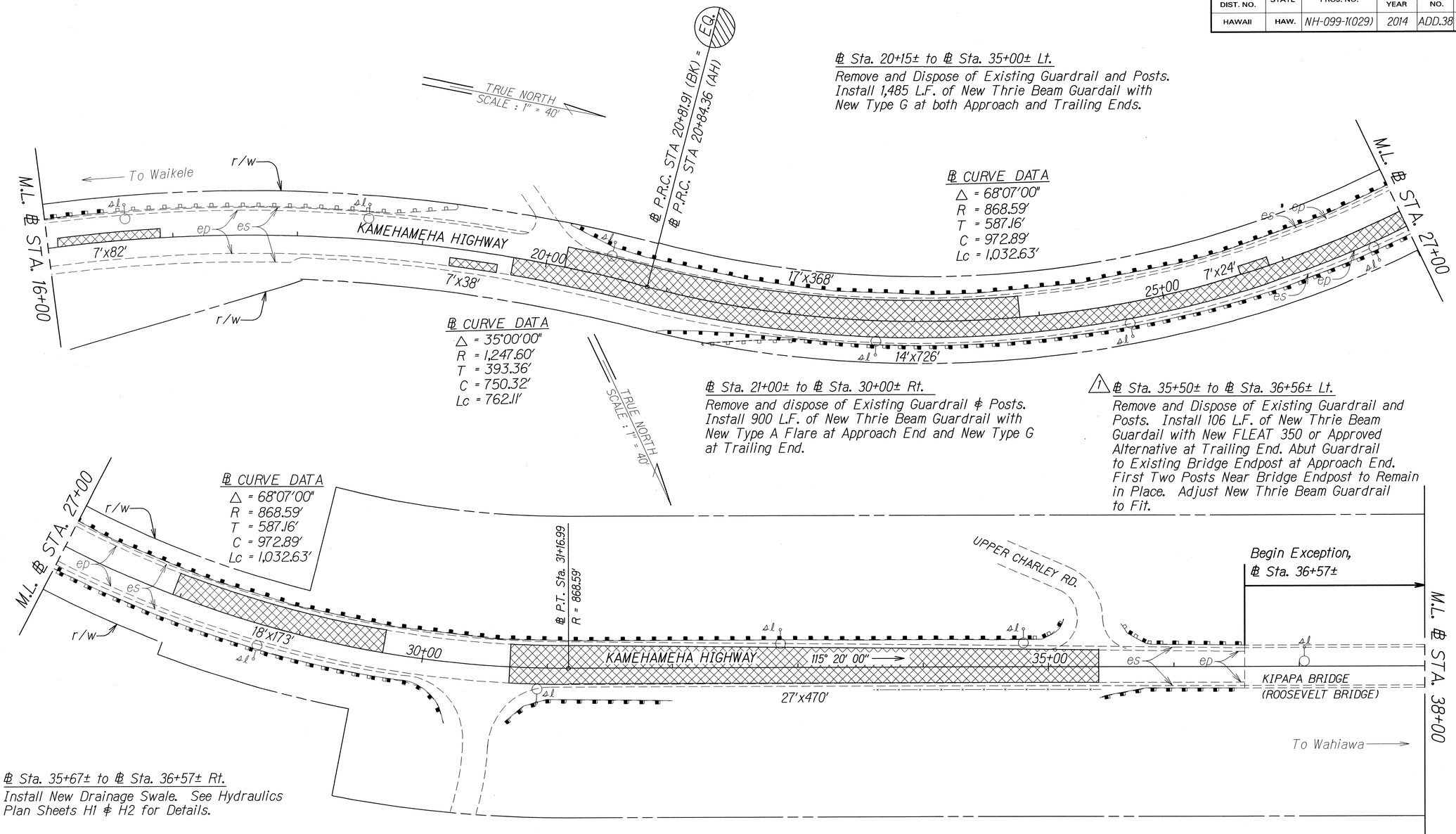
Scale: 1" = 40' Date: Sept., 2013

SHEET No. 1 OF 10 SHEETS

ADD. 37

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | d13.mike | N:\kmh.dgn

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	ADD.38	84



⌀ Sta. 20+15± to ⌀ Sta. 35+00± Lt.

Remove and Dispose of Existing Guardrail and Posts. Install 1,485 L.F. of New Thrie Beam Guardrail with New Type G at both Approach and Trailing Ends.

⌀ Sta. 21+00± to ⌀ Sta. 30+00± Rt.

Remove and dispose of Existing Guardrail & Posts. Install 900 L.F. of New Thrie Beam Guardrail with New Type A Flare at Approach End and New Type G at Trailing End.

1 ⌀ Sta. 35+50± to ⌀ Sta. 36+56± Lt.

Remove and Dispose of Existing Guardrail and Posts. Install 106 L.F. of New Thrie Beam Guardrail with New FLEAT 350 or Approved Alternative at Trailing End. Abut Guardrail to Existing Bridge Endpost at Approach End. First Two Posts Near Bridge Endpost to Remain in Place. Adjust New Thrie Beam Guardrail to Fit.

⌀ Sta. 35+67± to ⌀ Sta. 36+57± Rt.

Install New Drainage Swale. See Hydraulics Plan Sheets H1 & H2 for Details.

⌀ Sta. 30+65± to ⌀ Sta. 31+82± Rt.

Remove and Dispose of Existing Guardrail & Posts. Install 117 L.F. of New Thrie Beam Guardrail with New Type G at Approach End and New FLEAT 350 or Approved Alternative at Trailing End.

⌀ Sta. 35+40± to ⌀ Sta. 36+56± Rt.

Remove and Dispose of Existing Guardrail & Posts. Install 116 L.F. of New Thrie Beam Guardrail with New Type A Flare at Approach End. Abut Guardrail to Existing Bridge Endpost at Trailing End.

Note:

Install double nested thrie beam near existing light standards and utility poles. See Plan Sheet No. 31 for details.

DATE	REVISION
1 1/16/14	Corrected Note.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

SHEET No. 2 OF 10 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

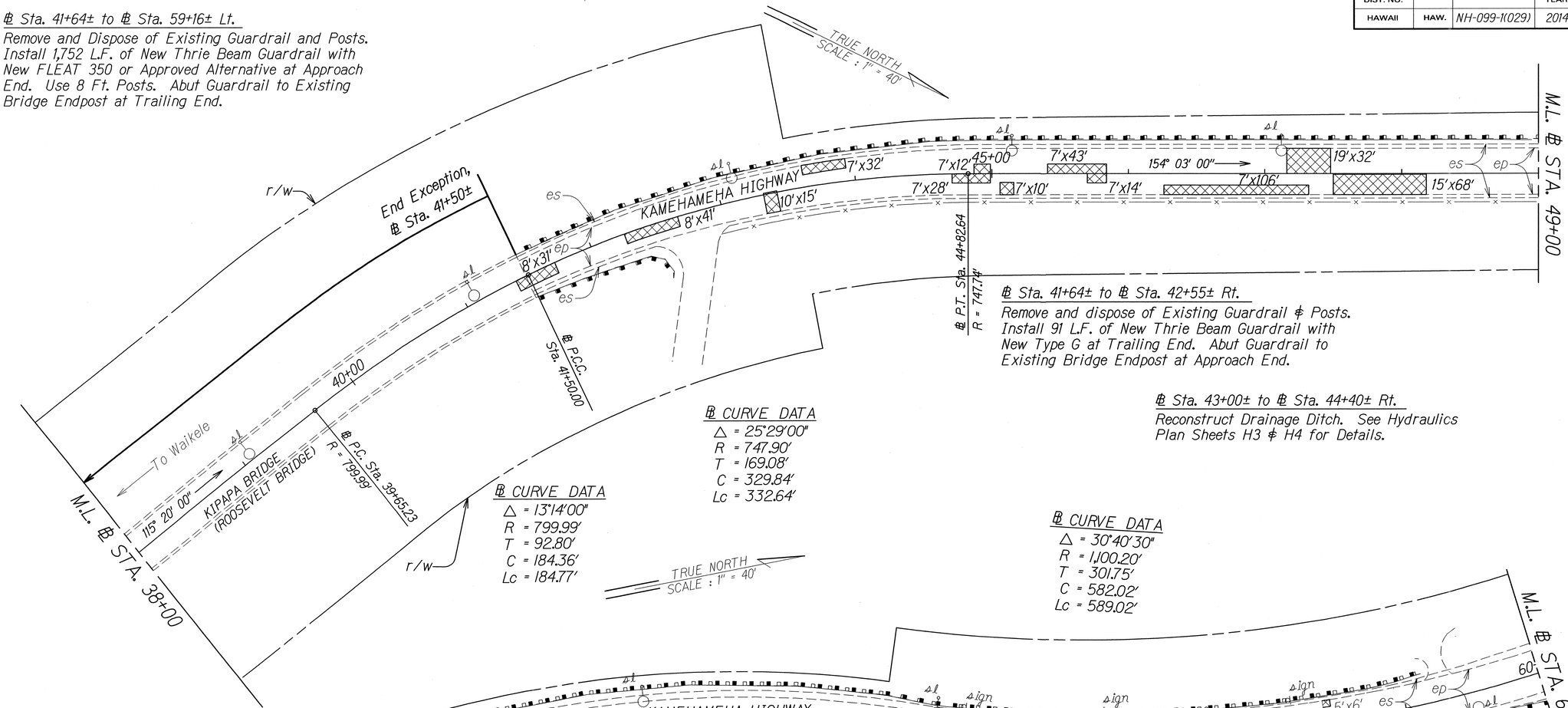
NOTE BOOK

ADD. 38

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	39	84

℄ Sta. 41+64± to ℄ Sta. 59+16± Lt.

Remove and Dispose of Existing Guardrail and Posts. Install 1,752 L.F. of New Thrie Beam Guardrail with New FLEAT 350 or Approved Alternative at Approach End. Use 8 Ft. Posts. Abut Guardrail to Existing Bridge Endpost at Trailing End.



℄ Sta. 41+64± to ℄ Sta. 42+55± Rt.

Remove and dispose of Existing Guardrail & Posts. Install 91 L.F. of New Thrie Beam Guardrail with New Type G at Trailing End. Abut Guardrail to Existing Bridge Endpost at Approach End.

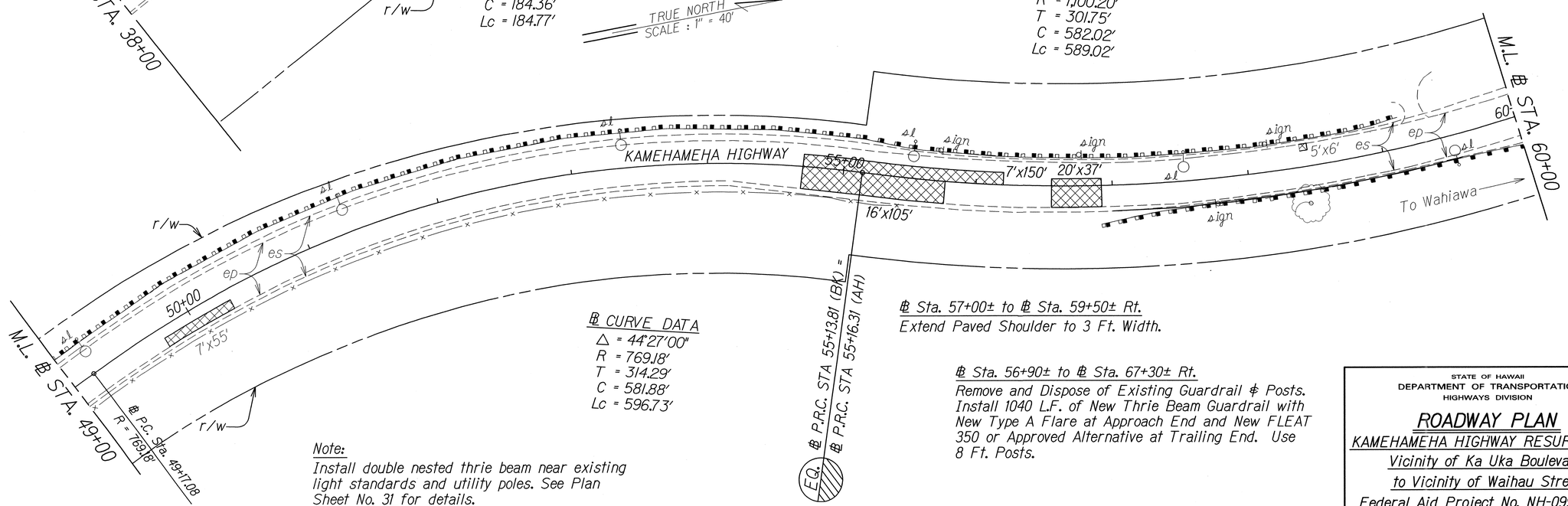
℄ Sta. 43+00± to ℄ Sta. 44+40± Rt.

Reconstruct Drainage Ditch. See Hydraulics Plan Sheets H3 & H4 for Details.

℄ CURVE DATA
△ = 25°29'00"
R = 747.90'
T = 169.08'
C = 329.84'
Lc = 332.64'

℄ CURVE DATA
△ = 13°14'00"
R = 799.99'
T = 92.80'
C = 184.36'
Lc = 184.77'

℄ CURVE DATA
△ = 30°40'30"
R = 1,100.20'
T = 301.75'
C = 582.02'
Lc = 589.02'



℄ CURVE DATA
△ = 44°27'00"
R = 769.18'
T = 314.29'
C = 581.88'
Lc = 596.73'

℄ Sta. 57+00± to ℄ Sta. 59+50± Rt.

Extend Paved Shoulder to 3 Ft. Width.

℄ Sta. 56+90± to ℄ Sta. 67+30± Rt.

Remove and Dispose of Existing Guardrail & Posts. Install 1040 L.F. of New Thrie Beam Guardrail with New Type A Flare at Approach End and New FLEAT 350 or Approved Alternative at Trailing End. Use 8 Ft. Posts.

Note:

Install double nested thrie beam near existing light standards and utility poles. See Plan Sheet No. 31 for details.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

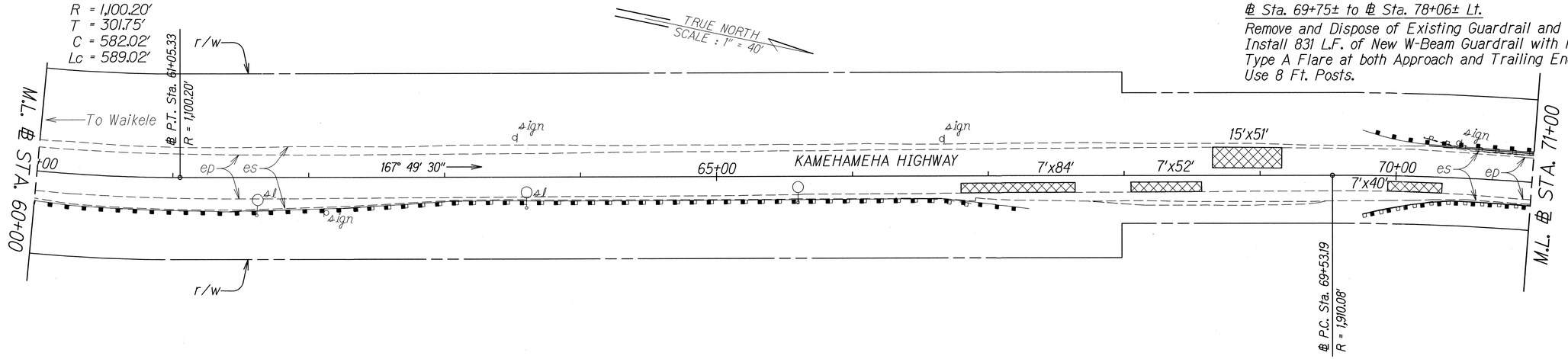
SHEET No. 3 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	40	84

℄ Sta. 70+20± to ℄ Sta. 77+75± Lt.
Extend Paved Shoulder to 3 Ft. Width.

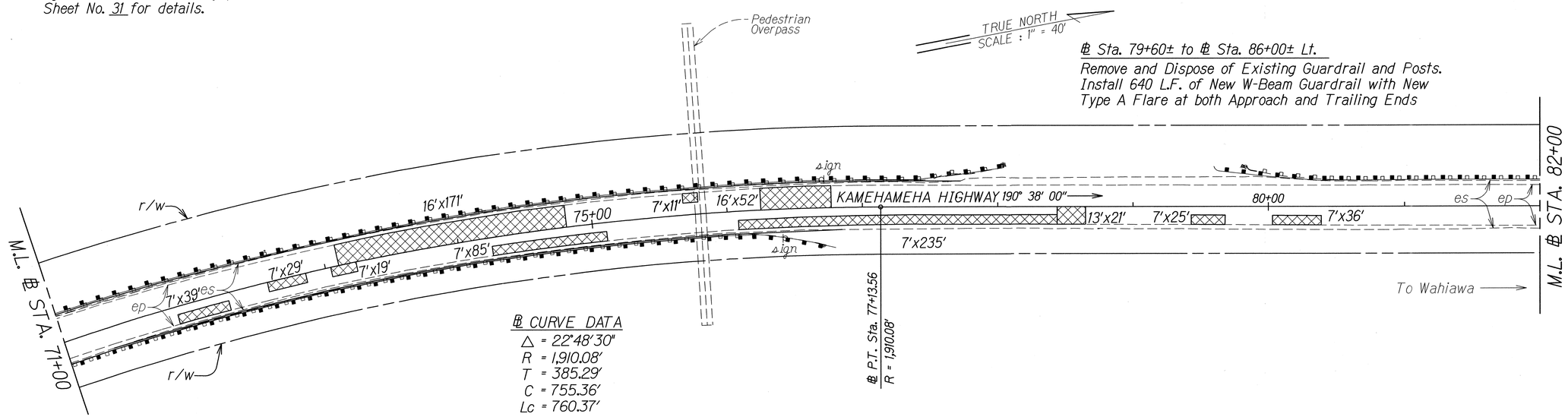
℄ CURVE DATA
△ = 30°40'30"
R = 1,100.20'
T = 301.75'
C = 582.02'
Lc = 589.02'

℄ Sta. 69+75± to ℄ Sta. 78+06± Lt.
Remove and Dispose of Existing Guardrail and Posts.
Install 831 L.F. of New W-Beam Guardrail with New Type A Flare at both Approach and Trailing Ends.
Use 8 Ft. Posts.



Note:
Install double nested thrie beam near existing light standards and utility poles. See Plan Sheet No. 31 for details.

℄ Sta. 79+60± to ℄ Sta. 86+00± Lt.
Remove and Dispose of Existing Guardrail and Posts.
Install 640 L.F. of New W-Beam Guardrail with New Type A Flare at both Approach and Trailing Ends



℄ CURVE DATA
△ = 22°48'30"
R = 1,910.08'
T = 385.29'
C = 755.36'
Lc = 760.37'

℄ Sta. 69+80± to ℄ Sta. 76+80± Rt.
Remove and Dispose of Existing Guardrail and Posts.
Install 700 L.F. of New W-Beam Guardrail with New Type A Flare at both Approach and Trailing Ends.

℄ Sta. 71+30± to ℄ Sta. 76+85± Rt.
Extend Paved Shoulder to 3 Ft. Width.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)
Scale: 1" = 40' Date: Sept., 2013

SHEET No. 4 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	ADD.41	84

TRUE NORTH
SCALE : 1" = 40'

To Waikele

r/w

M.L. ℄ STA. 82+00

ep es 15'x123' 85+00 7'x7' 190° 38' 00" 7'x34' 7'x5' 15'x66' sign 7'x73' 7'x49' 90+00 KAMEHAMEHA HIGHWAY 0+00 25'x336' 0+00 ep es sign

EQ. ℄ P.C. STA 91+85.38 (BK) =
℄ IB P.C. STA 0+00 (AH)
℄ OB STA -0+57.74 (AH)
R = 1,432.69'

O.B. ℄ P.C. Sta. 0+46.58
R = 1,432.69'

I.B. M.L. ℄ STA. 2+00

r/w

℄ Sta. 83+32± to ℄ Sta. 87+85± Rt.
Remove and Dispose of Existing Guardrail and Posts. Install 453 L.F. of New W-Beam Guardrail with New FLEAT 350 or Approved Alternative at both Approach and Trailing Ends.

1 ℄ Sta. 91+52± to O.B. ℄ Sta. 4+15± Rt.
Remove and Dispose of Existing Guardrail and Posts. Install 520.74 L.F. of New W-Beam Guardrail with New FLEAT 350 or Approved Alternative at both Approach and Trailing Ends.

℄ Sta. 83+40± to O.B. ℄ Sta. 4+50± Rt.
Extend Paved Shoulder to 4 Ft. Width.

TRUE NORTH
SCALE : 1" = 40'

I.B. ℄ Sta. 7+18± to I.B. ℄ Sta. 8+70± Lt.
Remove and Dispose of Existing Guardrail and Posts. Install 152 L.F. of New W-Beam Guardrail with New FLEAT 350 or Approved Alternative at Approach End and New Type G at Trailing End.

℄ CURVE DATA
△ = 26°46'30"
R = 1,432.69'
T = 340.98'
C = 663.44'
Lc = 669.51'

I.B. ℄ P.T. Sta. 6+69.51
R = 1,432.69'

O.B. ℄ P.T. Sta. 7+16.10
R = 1,432.69'

O.B. ℄ Sta. 9+36±
End Taper

I.B. ℄ Sta. 10+41±
Begin Taper

LANIKUHANA AVENUE

I.B. M.L. ℄ STA. 13+00

I.B. M.L. ℄ STA. 2+00

r/w ep es 25'x589' 5+00 sign a sign b sign p 20'x329' 163° 51' 30" 10+00 12'x84' MON. 60'x14' 31'x267' To Wahiawa

O.B. ℄ Sta. 6+09±
Begin Taper

O.B. ℄ Sta. 6+87±
End Taper

DATE	REVISION
1/16/14	Corrected Note.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

SHEET No. 5 OF 10 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY
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DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE
NOTE BOOK
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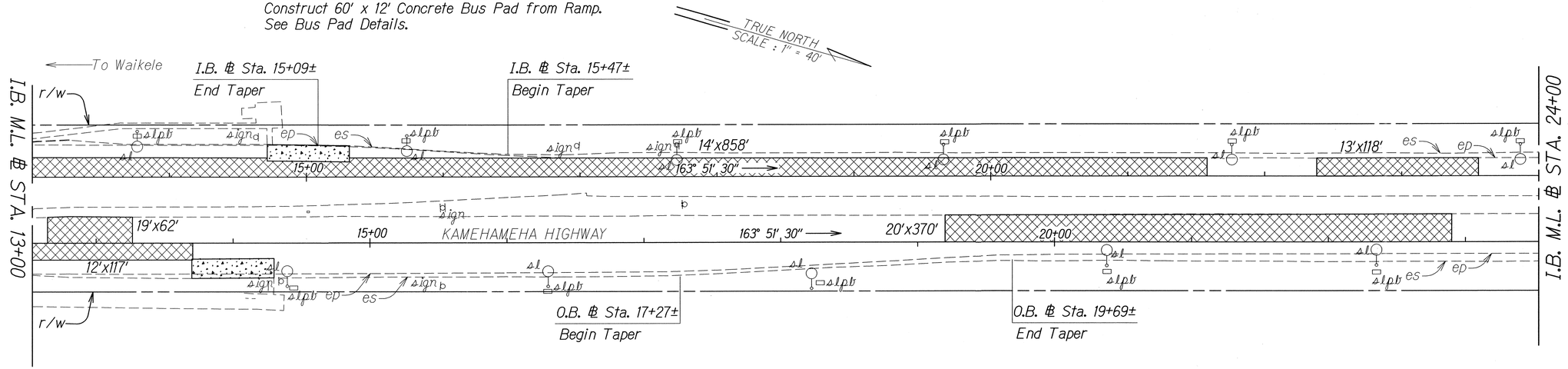
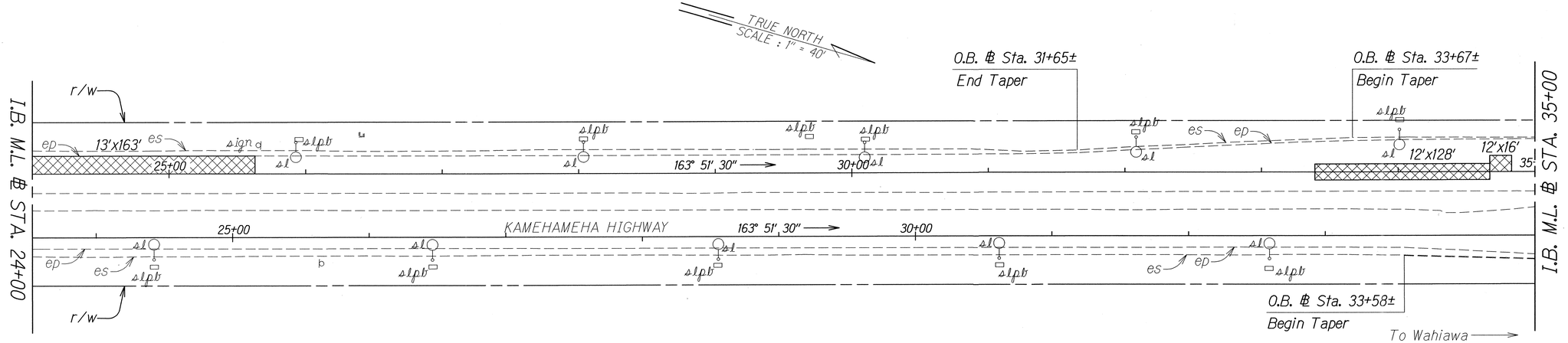
ADD. 41

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	42	84

I.B. ℄ Sta. 14+70± to I.B. ℄ Sta. 15+30± Lt.
Construct 60' x 12' Concrete Bus Pad from Ramp.
See Bus Pad Details.



O.B. ℄ Sta. 13+70± to O.B. ℄ Sta. 14+30± Rt.
Construct 60' x 12' Concrete Bus Pad and 60 L.F.
Concrete Shoulder from Ramp. See Bus Pad Details.



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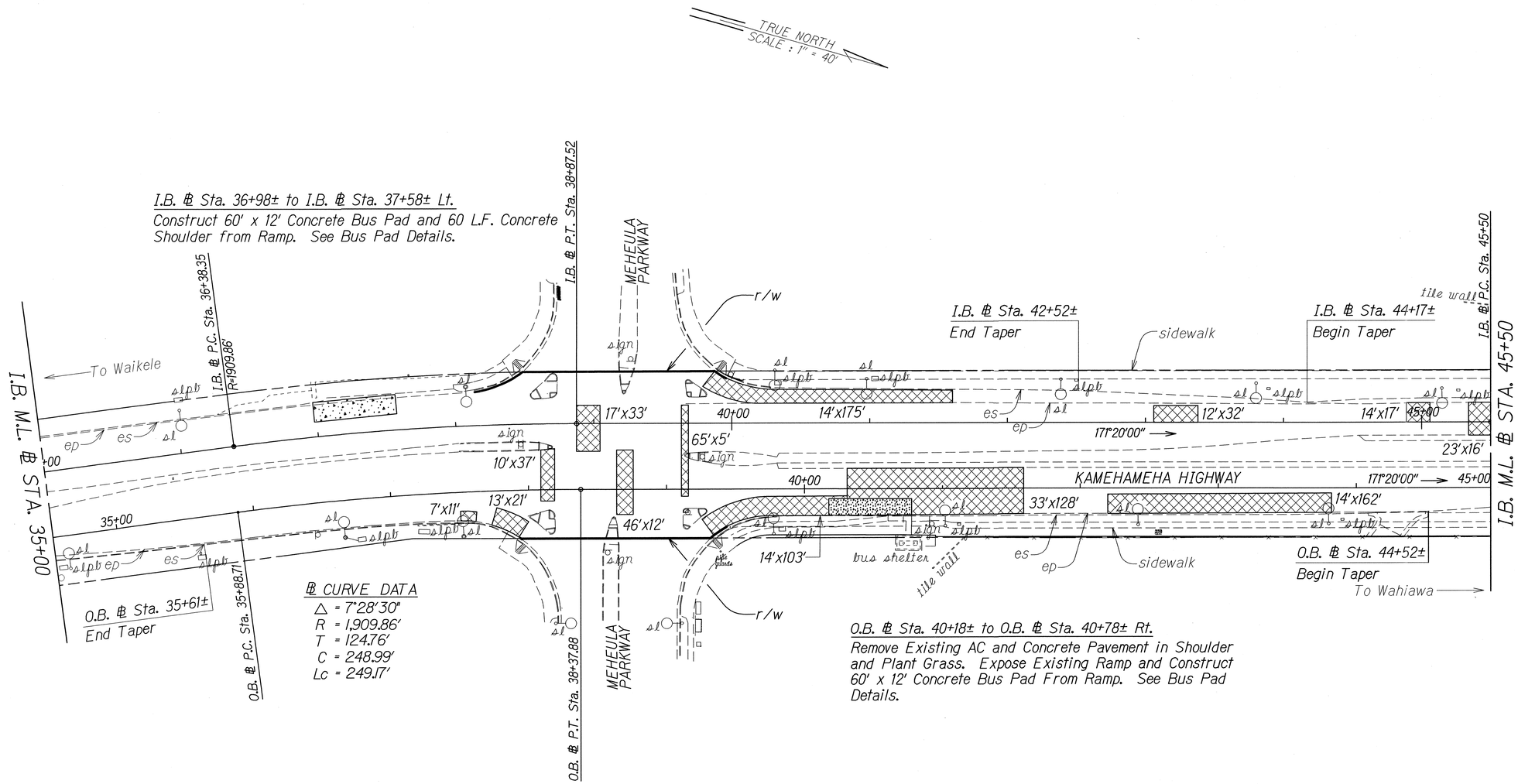
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)
Scale: 1" = 40' Date: Sept., 2013

SHEET No. 6 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	43	84



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK	TRACED BY	
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	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

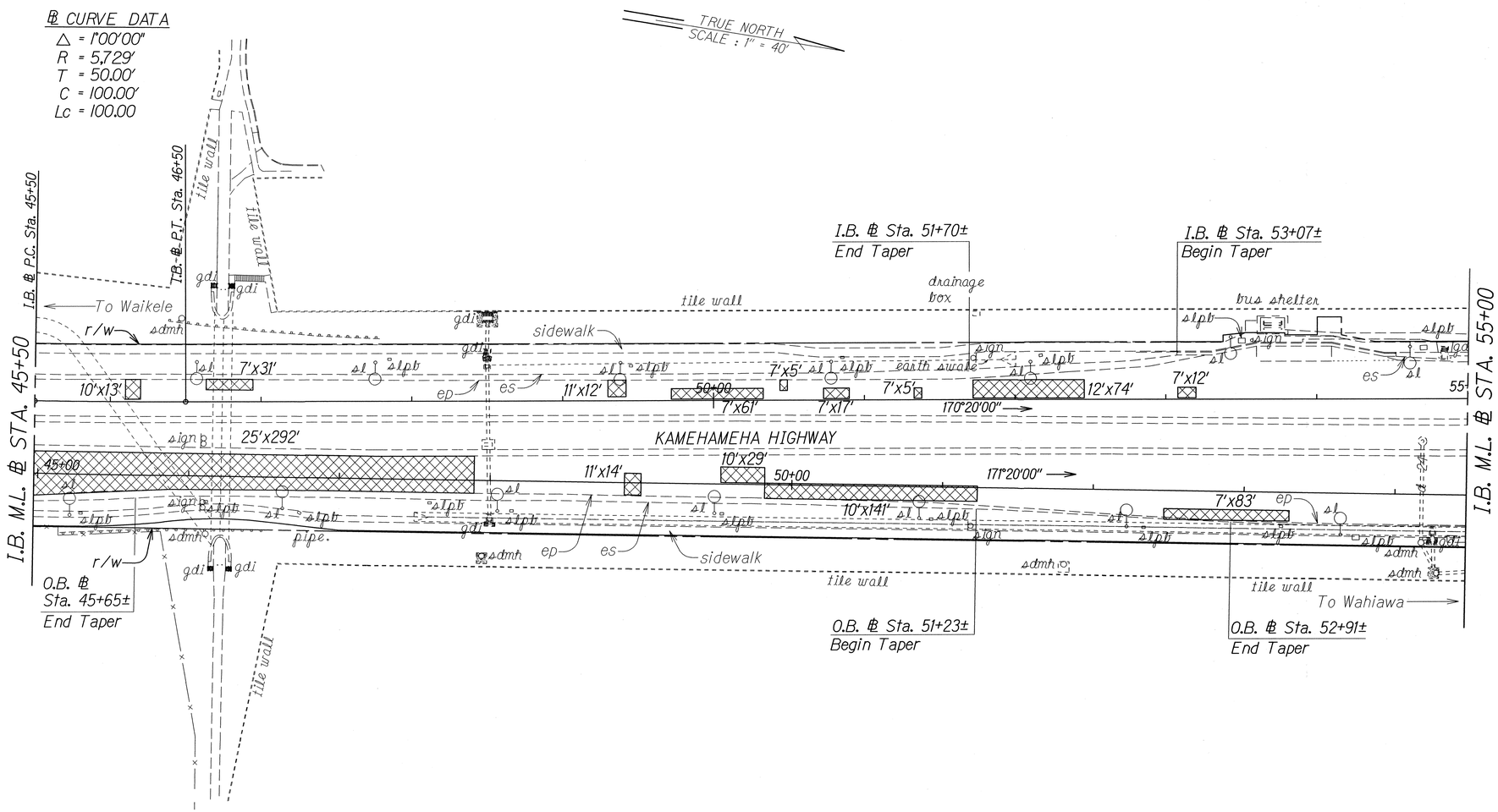
ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

SHEET No. 7 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	44	84



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

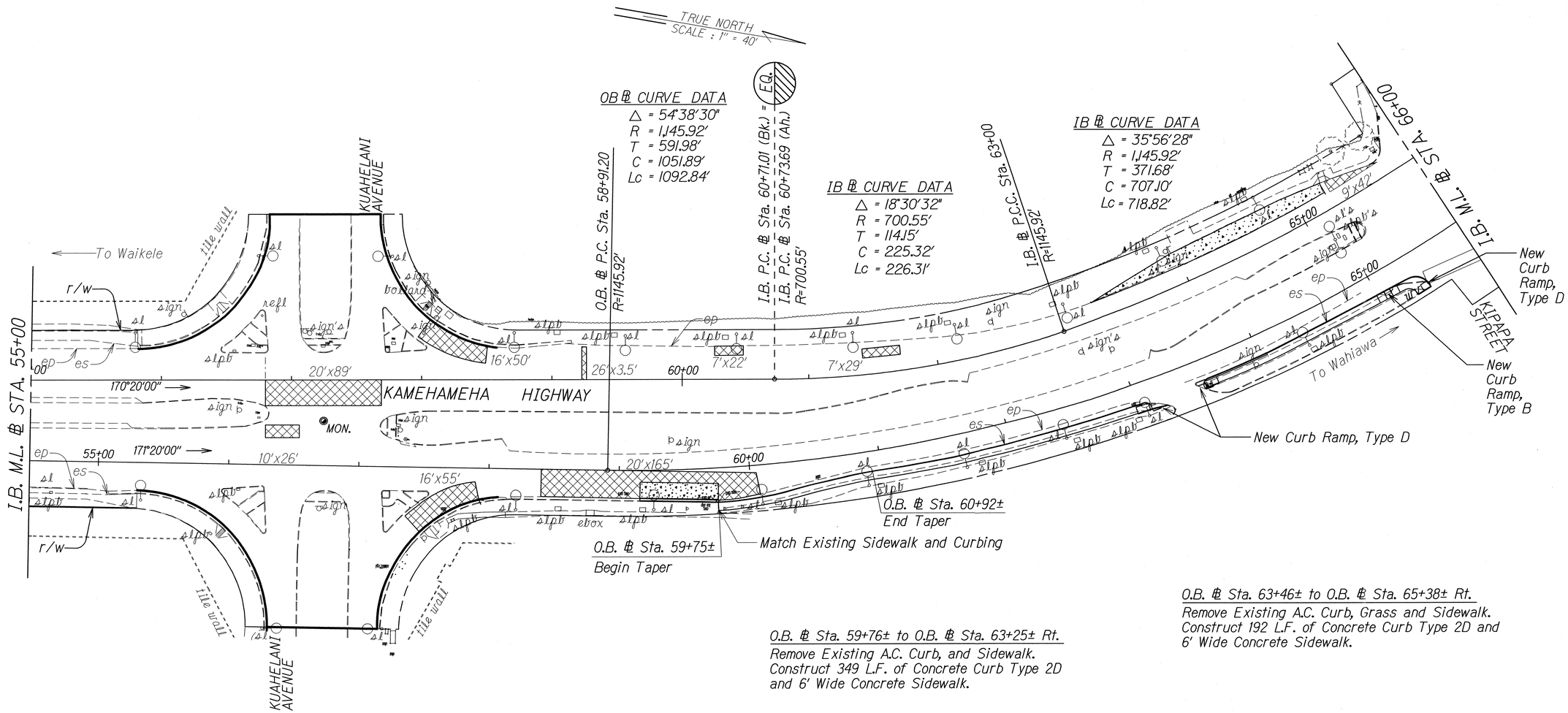
KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

SHEET No. 8 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	45	84

I.B. ℄ Sta. 63+30± to I.B. ℄ Sta. 65+24± Lt.
Remove Existing Concrete Bus Pullout and Construct New Concrete Bus Pullout. See Bus Pad Details.



O.B. ℄ Sta. 63+46± to O.B. ℄ Sta. 65+38± Rt.
Remove Existing A.C. Curb, Grass and Sidewalk. Construct 192 L.F. of Concrete Curb Type 2D and 6' Wide Concrete Sidewalk.

O.B. ℄ Sta. 59+76± to O.B. ℄ Sta. 63+25± Rt.
Remove Existing A.C. Curb, and Sidewalk. Construct 349 L.F. of Concrete Curb Type 2D and 6' Wide Concrete Sidewalk.

Note: See Plan Sheet Nos. 19 & 20 for Curb Ramp Details.

O.B. ℄ Sta. 57+70± to O.B. ℄ Sta. 58+13± Rt.
Remove Existing A.C. Sidewalk. Construct 43 L.F. of 4' Wide Concrete Sidewalk. Match Existing Curb Ramp and Sidewalk.

O.B. ℄ Sta. 59+16± to O.B. ℄ Sta. 59+76± Rt.
Remove Existing Concrete Curb. Construct 60' x 12' Concrete Bus Pad and 60 L.F. Concrete Curb and Gutter Type 2DG from End of Bus Shelter. See Standard Plans for Details.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK	TRACED BY	
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	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

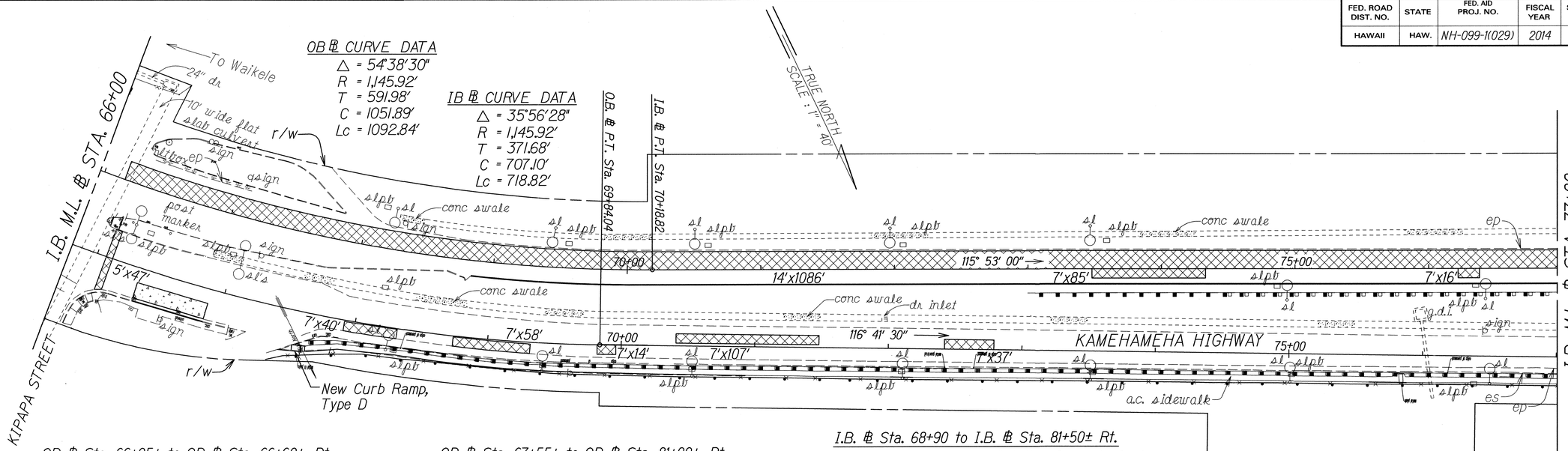
ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

SHEET No. 9 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	46	84



OB ℄ Sta. 66+05± to OB ℄ Sta. 66+60±, Rt.

Remove Existing Concrete Curb and Gutter. Construct 55' x 12' Concrete Bus Pad and 55 L.F. Concrete Curb and Gutter, Type 2DG from End of Bus Shelter. See Standard Plans for Details.

OB ℄ Sta. 67+55± to OB ℄ Sta. 81+00±, Rt.

Remove and Dispose of Existing Guardrail and Posts. Install 1345 L.F. of New W-Beam Guardrail with New Type G at both Approach and Trailing Ends. Remove Existing A.C. Sidewalk. Construct 1345 L.F. of 4' Wide A.C. Sidewalk. Match Existing Curb Ramp at Waihau Street. Remove and Dispose of Existing Chain Link Fence and Concrete Footings. Install 1345 L.F. of 6' High New Chain Link Fence on Concrete Footings.

I.B. ℄ Sta. 68+90 to I.B. ℄ Sta. 81+50± Rt.

Remove and Dispose of Existing Concrete Curb. Install 1300 L.F. of New Concrete Curb, Type 2D. Match Existing Curb at both ends. See Typical Sections for Details.

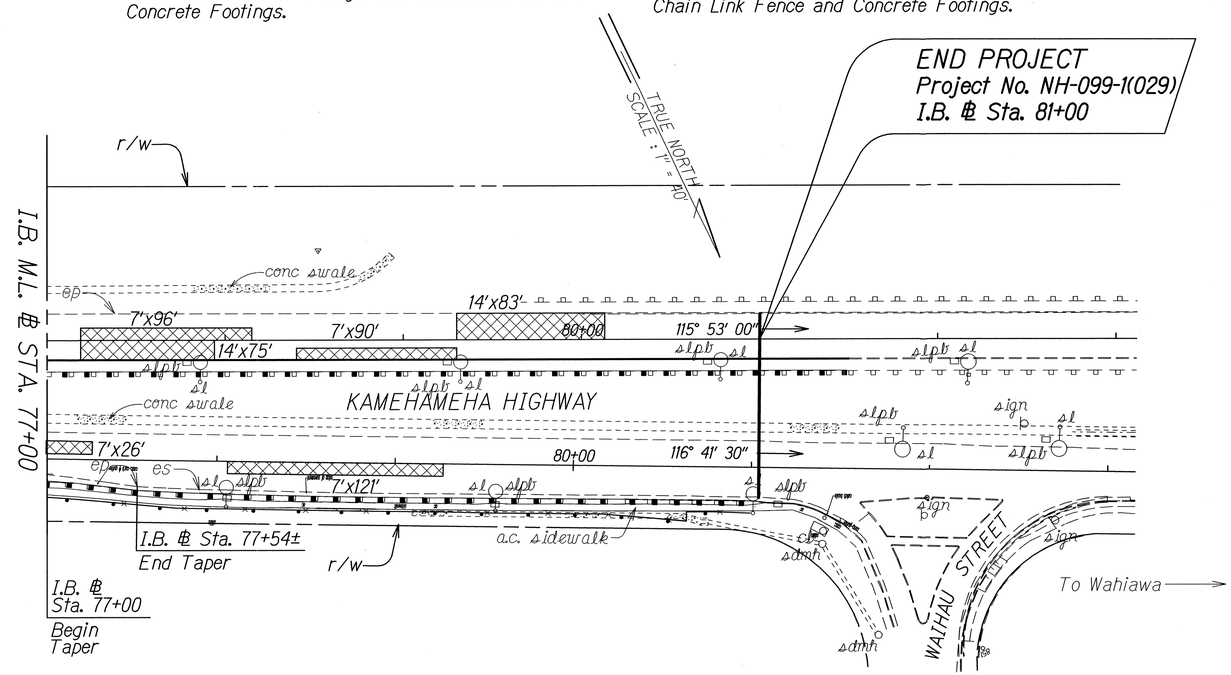
O.B. ℄ Sta. 75+80± Rt.

Remove and Dispose of 10 L.F. of Existing Chain Link Fence and Concrete Footings.

I.B. ℄ Sta. 73+00 to I.B. ℄ Sta. 81+50± Rt.

Remove and Dispose of Existing Guardrail and Posts. Install 850 L.F. of New Thrie Beam Guardrail with New Type G at Trailing End. Remove Transition Section plus 12'-6" of guardrail and Connect to Existing Guardrail at Approach End. Install Double Nested Thrie Beam near existing light standards. See Plan Sheet 31 for details.

Note: See Plan Sheet No. 21 for Curb Ramp Details.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

Scale: 1" = 40' Date: Sept., 2013

SHEET No. 10 OF 10 SHEETS