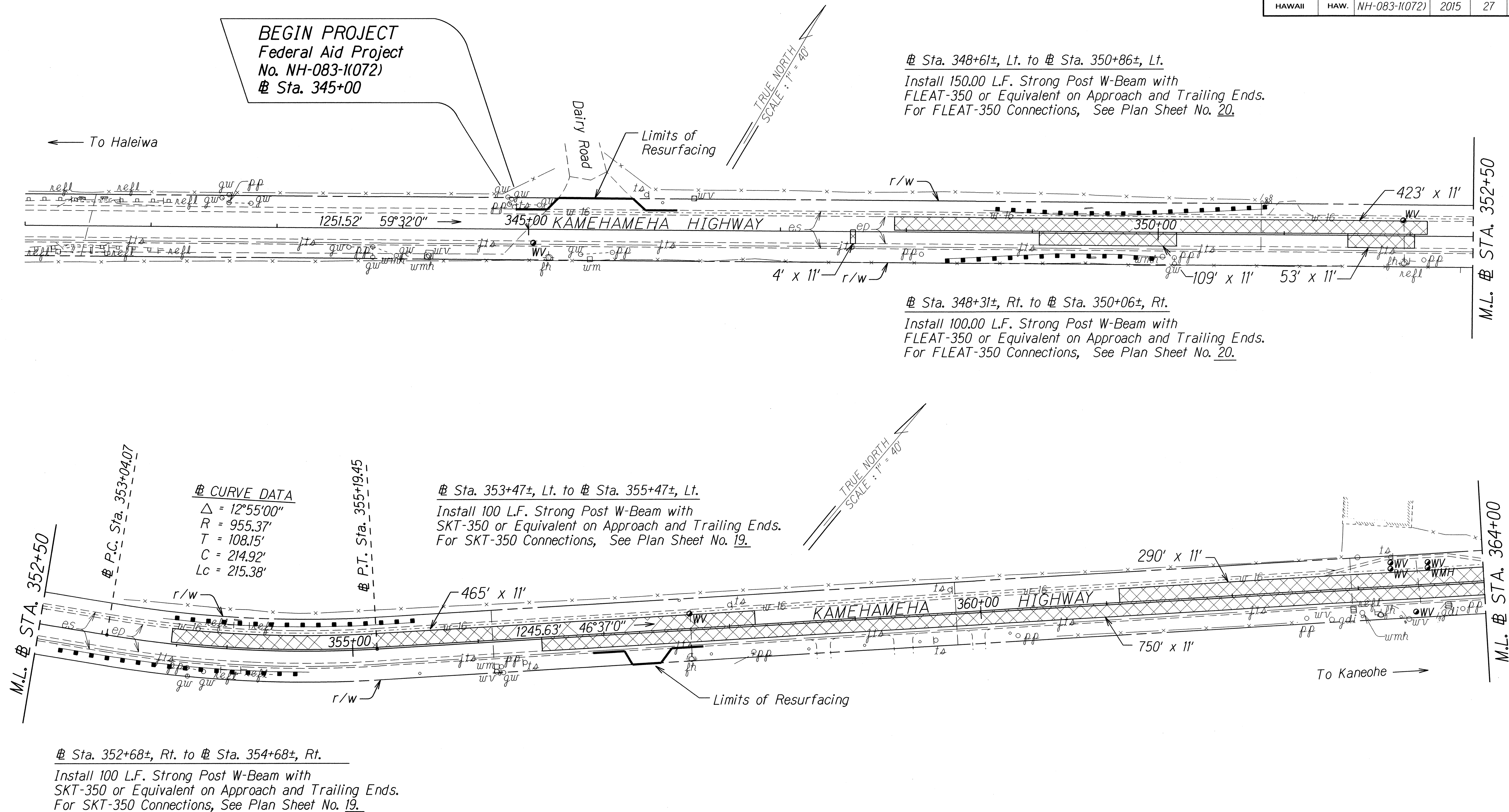


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	27	107



SURVEY PLOTTED BY	DATE
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NOTE BOOK	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

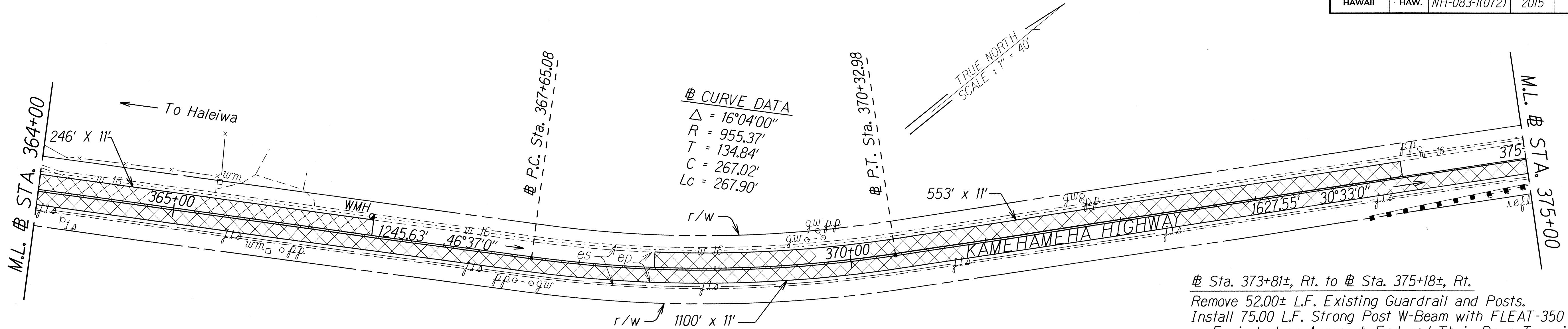
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 1 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	28	107



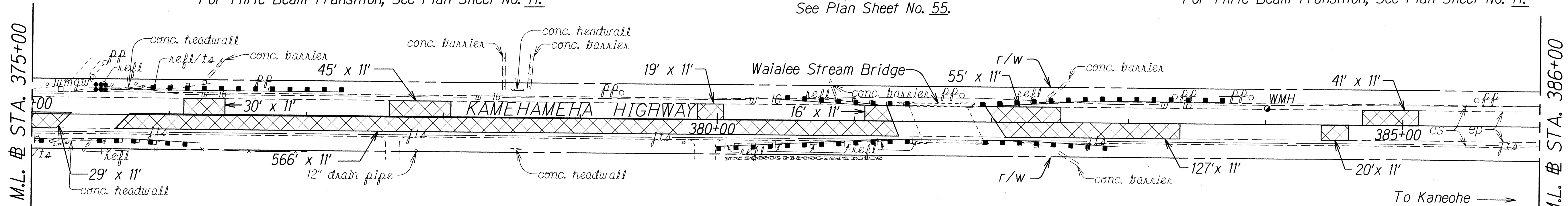
± Sta. 375+45±, Lt. to ± Sta. 375+55±, Lt.
Install Inertial Barrier System. For Inertial Barrier System Placement, See Plan Sheet No. 16.

± Sta. 375+77±, Lt. to ± Sta. 377+27±, Lt.
Remove 54.00± L.F. Existing Guardrail and Posts.
Install 75 L.F. Strong Post W-Beam with SKT-350 or Equivalent on Approach End and Thrie Beam Transition at Trailing End. For SKT-350 Connection, See Plan Sheet No. 19.
For Thrie Beam Transition, See Plan Sheet No. 71.

± Sta. 380+42±, Lt. to ± Sta. 381+40±, Lt.
Remove 51.00± L.F. Existing Guardrail and Posts.
Install 37.50 L.F. Strong Post W-Beam with Thrie Beam Transition at Approach End and FLEAT-350 or Equivalent at Trailing End. For FLEAT-350 Connection, See Plan Sheet No. 20.
For Thrie Beam Transition, See Plan Sheet No. 71.

± Sta. 381+83±, Lt. to ± Sta. 383+70±, Lt.
Remove 51.00± L.F. Existing Guardrail and Posts.
Install 112.50 L.F. Strong Post W-Beam with SKT-350 or Equivalent on Approach End and Thrie Beam Transition at Trailing End.
For SKT-350 connection, See Plan Sheet No. 19.
For Thrie Beam Transition, See Plan Sheet No. 71.

± Sta. 381+25± to ± Sta. 381+40±
New Approach Concrete Slab,
See Plan Sheet No. 55.



± Sta. 375+48±, Rt. to ± Sta. 376+23±, Rt.
Remove 53.00± L.F. Existing Guardrail and Posts.
Install 12.50 L.F. Strong Post W-Beam with Thrie Beam Transition at Approach End and FLEAT-350 or Equivalent at Trailing End. For FLEAT-350 connection, See Plan Sheet No. 20.
For Thrie Beam Transition, See Plan Sheet No. 71.

± Sta. 380+00±, Rt. to ± Sta. 381+50±, Rt.
Remove 130.00± L.F. Existing Guardrail and Posts.
Install 87.50 L.F. Strong Post W-Beam with FLEAT-350 or Equivalent on Approach End and Thrie Beam Transition at Trailing End. For FLEAT-350 connection, See Plan Sheet No. 20.
For Thrie Beam Transition, See Plan Sheet No. 71.

± Sta. 381+40±, Lt. to ± Sta. 381+83±, Lt.
± Sta. 381+50±, Rt. to ± Sta. 381+94±, Rt.
Remove Existing Curb and Railing. Construct New Endposts and New Bridge Railings, See Plan Sheets 55 - 58.

± Sta. 375+55±, Lt. to ± Sta. 375+77±, Lt.
± Sta. 375+18±, Rt. to ± Sta. 375+48±, Rt.
Remove Existing Barriers. Construct Modified Delaware Retrofit, See Plan Sheets 53 & 54.

± Sta. 381+94±, Rt. to ± Sta. 382+94±, Rt.
Remove 51.00± L.F. Existing Guardrail and Posts.
Install 37.50 L.F. Strong Post W-Beam with Thrie Beam Transition at Approach End and FLEAT-350 or Equivalent at Trailing End. For FLEAT-350 connection, See Plan Sheet No. 20. For Thrie Beam Transition, See Plan Sheet No. 71.

± Sta. 381+94± to ± Sta. 382+09±
New Approach Concrete Slab,
See Plan Sheet No. 55.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

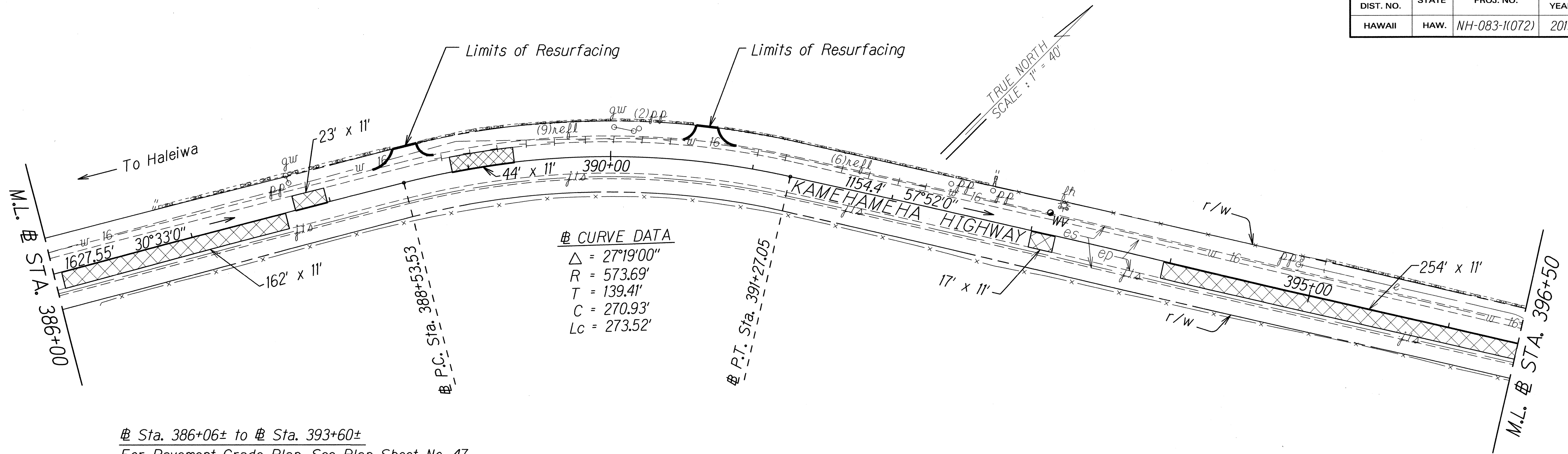
Dairy Road to Laiwai Bridge

Federal-Aid Project No. NH-083-1(072)

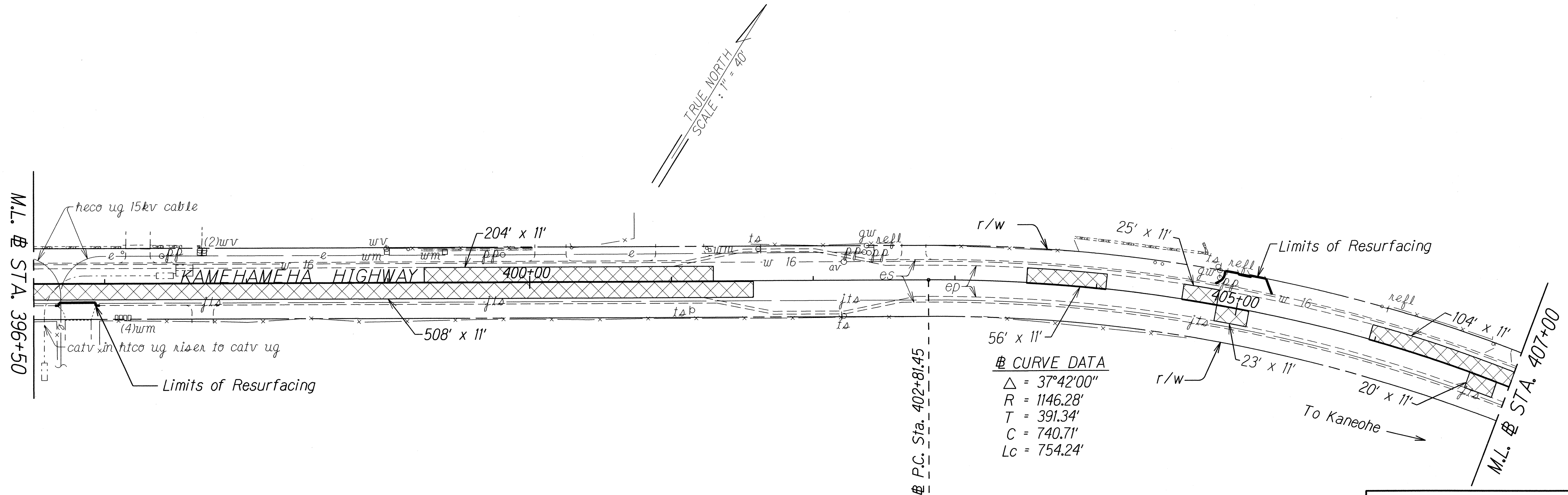
Scale: 1" = 40.0' Date: May, 2015

SHEET No. 2 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	29	107



Sta. 386+06± to # Sta. 393+60±
For Pavement Grade Plan, See Plan Sheet No. 47.



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

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

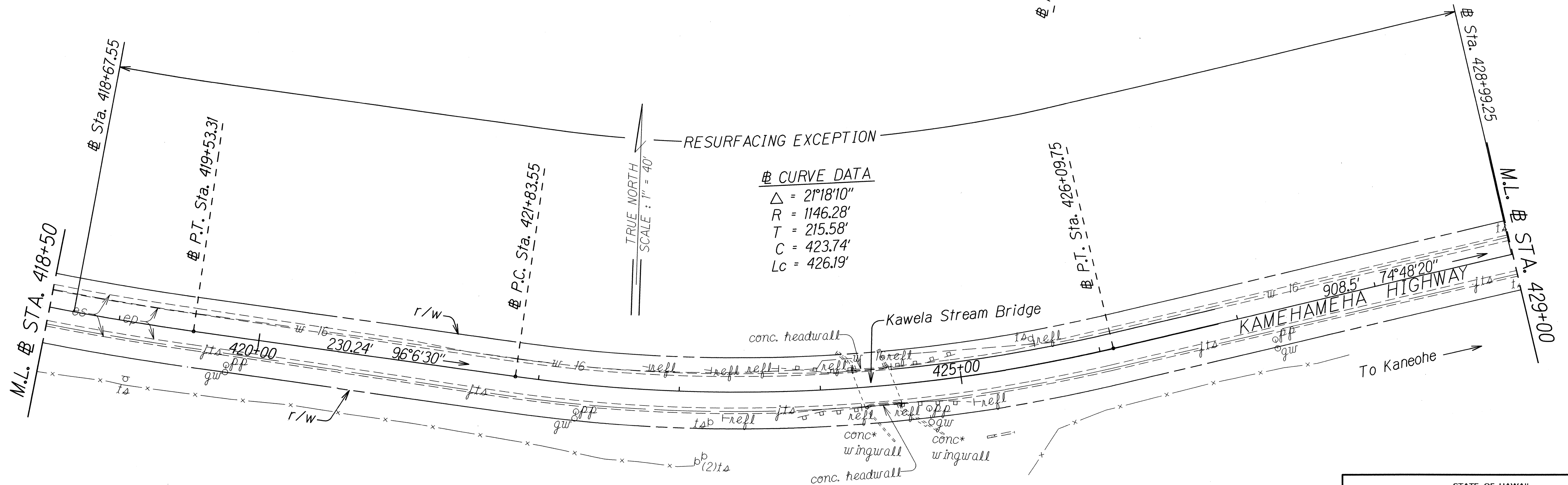
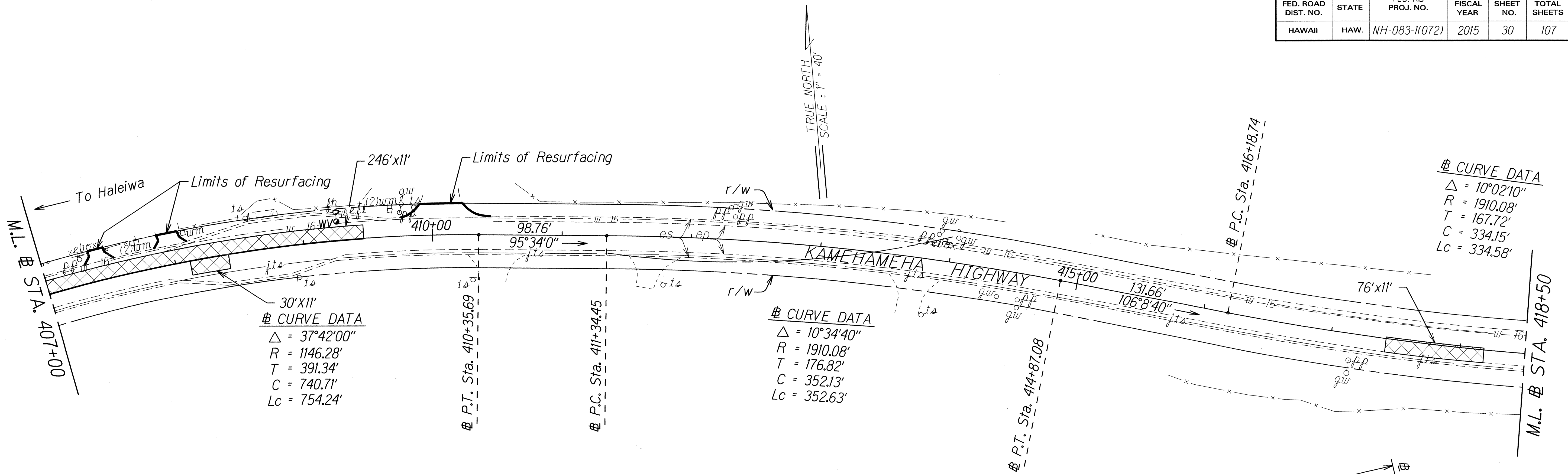
Dairy Road to Laiewai Bridge

Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 3 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	30	107



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

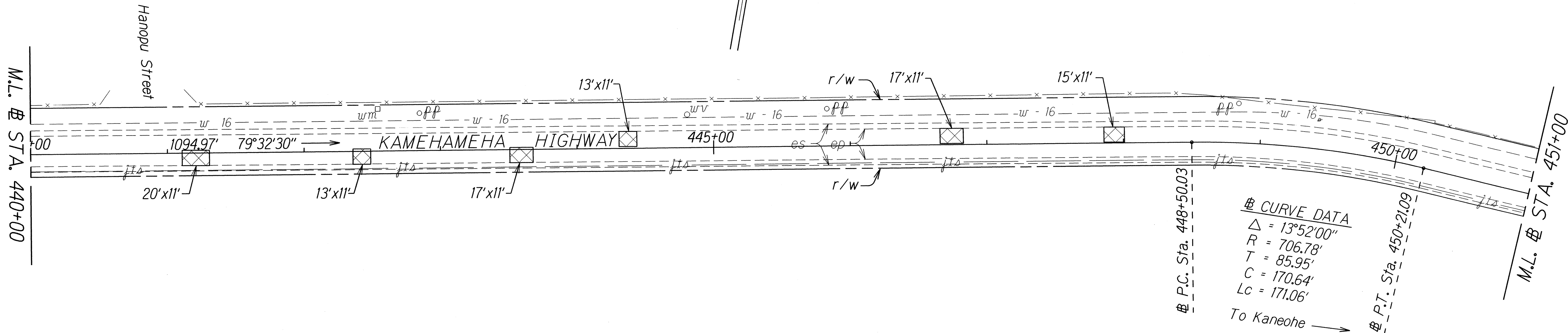
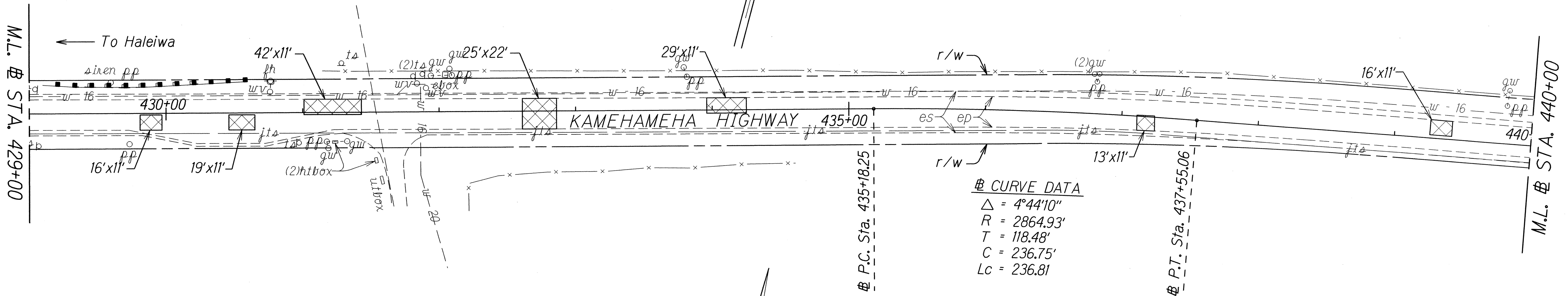
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 4 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	31	107

Sta. 429+10±, Lt. to # Sta. 430+35±, Lt.
Remove 91.00± L.F. Existing Guardrail and Posts.
Install 75.00 L.F. Strong Post W-Beam with
FLEAT-350 on Approach and Trailing Ends.
For FLEAT-350 connection, See Plan Sheet No. 20.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

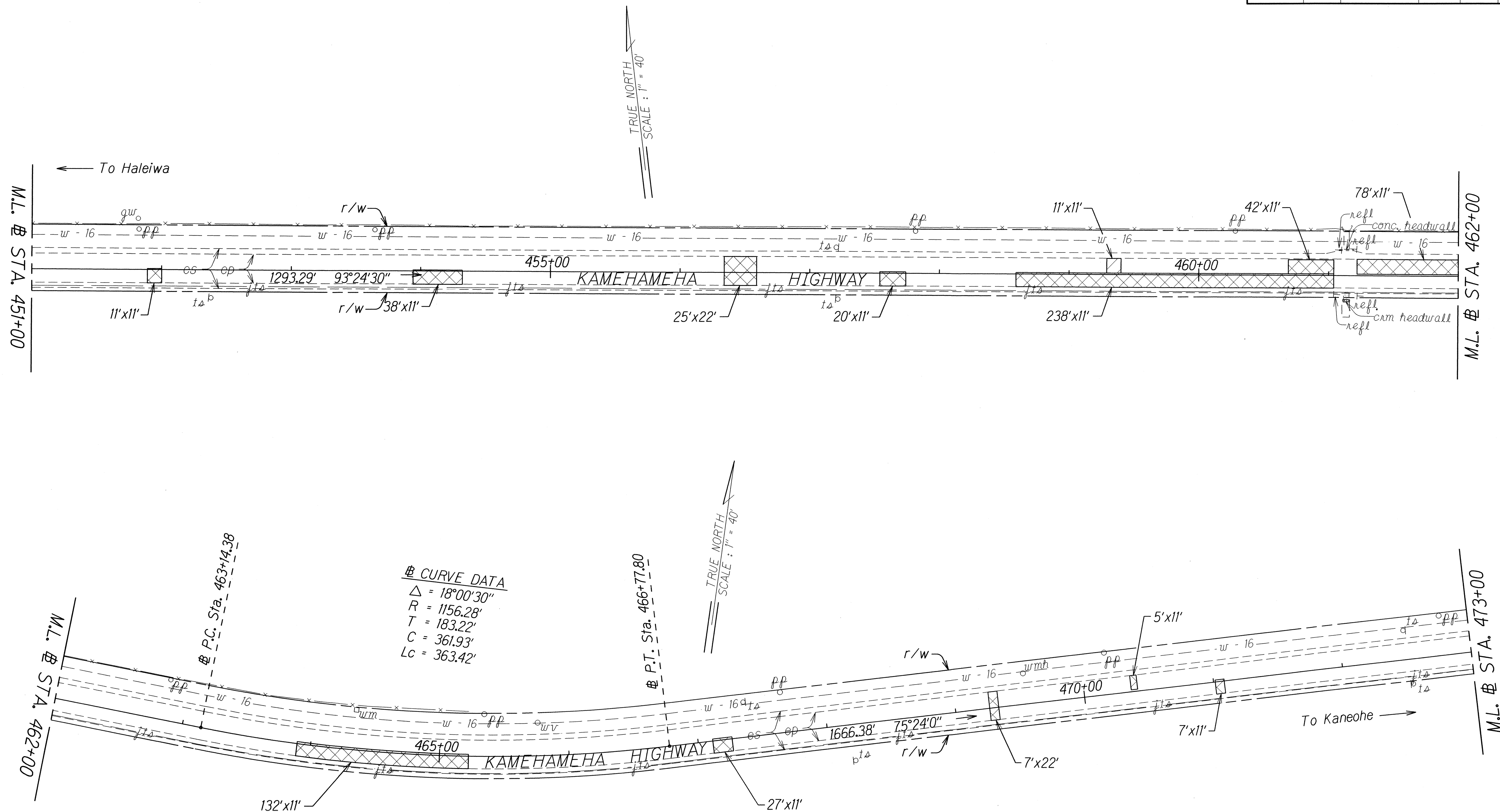
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 5 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	32	107



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

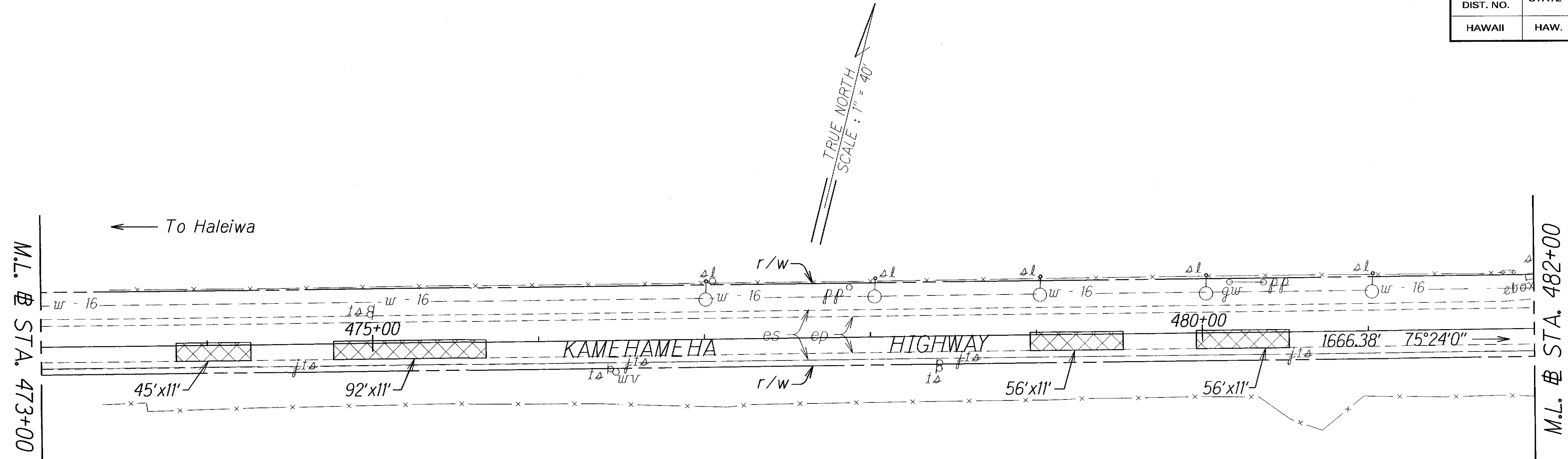
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 6 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-110721	2015	ADD. 33	107



Sta. 484+42±, Lt. to # Sta. 485+01±, Lt.

Remove 52.00± L.F. Existing Guardrail and Posts.
Install Thrie Beam Transition at Approach End and Transition Directly to FLEAT-350 or Equivalent at Trailing End. For FLEAT-350 Connection, See Plan Sheet No. 20. For Thrie Beam Transition, See Plan Sheet No. 71.

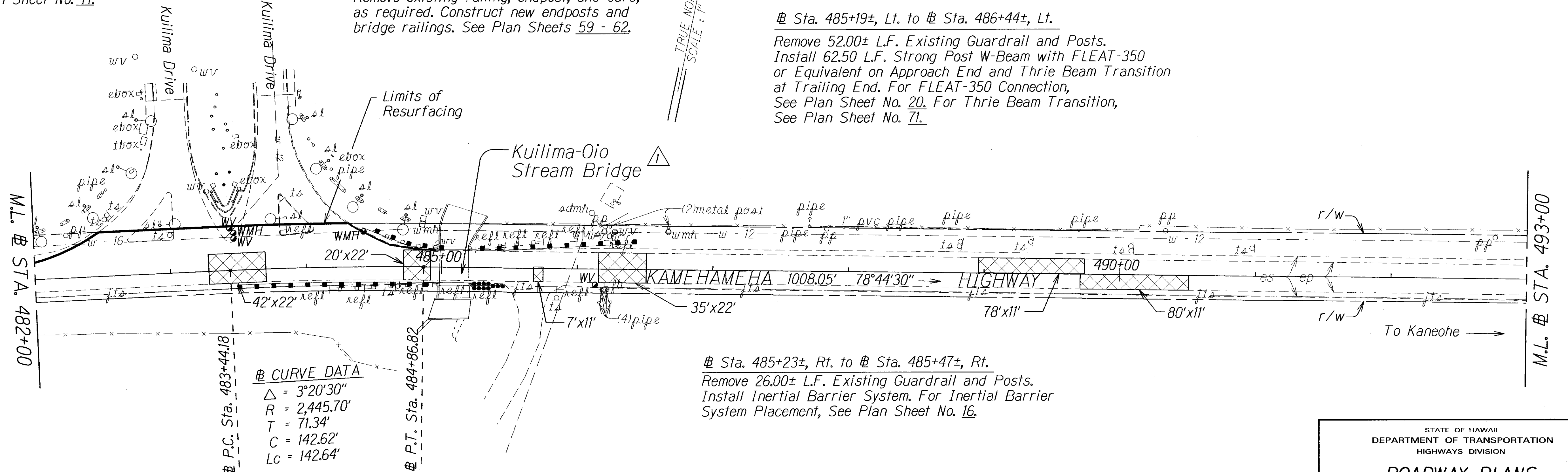
Sta. 485+01±, Lt. to # Sta. 485+19±, Lt.

Sta. 484+99±, Rt. to # Sta. 485+25±, Rt.

Remove existing railing, endpost, and curb, as required. Construct new endposts and bridge railings. See Plan Sheets 59 - 62.

Sta. 485+19±, Lt. to # Sta. 486+44±, Lt.

Remove 52.00± L.F. Existing Guardrail and Posts.
Install 62.50 L.F. Strong Post W-Beam with FLEAT-350 or Equivalent on Approach End and Thrie Beam Transition at Trailing End. For FLEAT-350 Connection, See Plan Sheet No. 20. For Thrie Beam Transition, See Plan Sheet No. 71.



CURVE DATA

$\Delta = 3^{\circ}20'30''$
 $R = 2,445.70'$
 $T = 71.34'$
 $C = 142.62'$
 $Lc = 142.64'$

Sta. 483+49±, Rt. to # Sta. 484+99±, Rt.

Remove 75.00± L.F. Existing Guardrail and Posts.
Install 75.00 L.F. Strong Post W-Beam with SKT-350 or Equivalent on Approach End and Thrie Beam Transition at Trailing End. For SKT-350 connection, See Plan Sheet No. 19. For Thrie Beam Transition, See Plan Sheet No. 71.

Sta. 484+93± to # Sta. 484+99±

Sta. 485+24± to # Sta. 485+30±

New Concrete Approach Slab,
See Plan Sheet No. 59.

Sta. 485+23±, Rt. to # Sta. 485+47±, Rt.

Remove 26.00± L.F. Existing Guardrail and Posts.
Install Inertial Barrier System. For Inertial Barrier System Placement, See Plan Sheet No. 16.

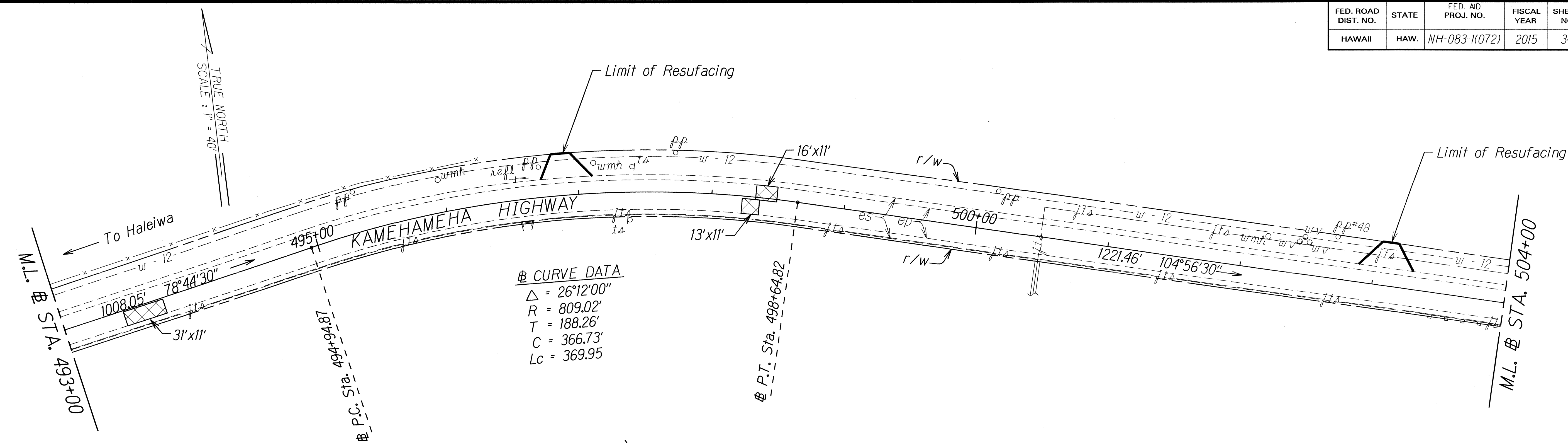
6/4/15 Labeled Kuilima-Oio Stream Bridge

DATE REVISION

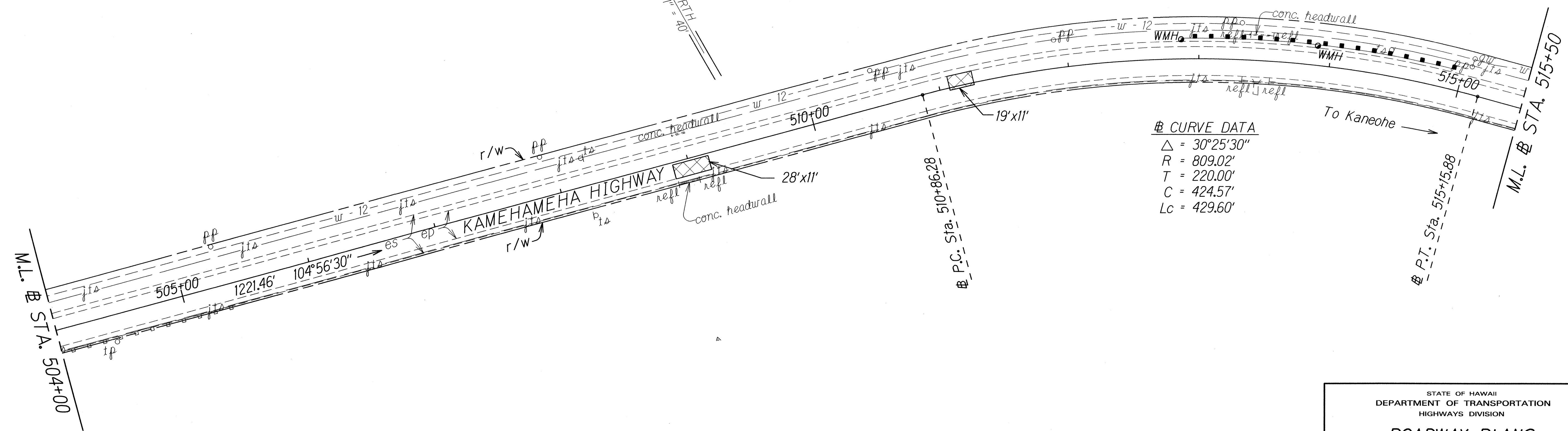
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
ROADWAY PLANS		
KAMEHAMEHA HIGHWAY RESURFACING		
Dairy Road to Laiwai Bridge		
Federal-Aid Project No. NH-083-110721		
Scale: 1" = 40.0'		Date: May, 2015
SHEET No. 7 OF 20 SHEETS		

ADD. 33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	34	107



Sta. 512+86±, Lt. to # Sta. 514+99±, Lt.
 Install 112.50 L.F. Strong Post W-Beam with
 SKT-350 or Equivalent on Approach and Trailing Ends.
 For SKT-350 Connection, See Plan Sheet No. 19.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

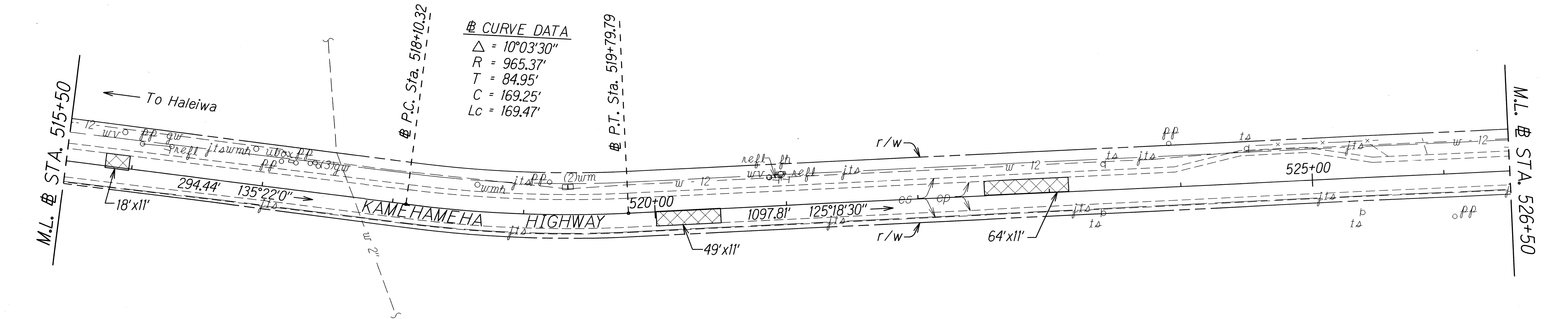
Dairy Road to Laiewai Bridge

Federal-Aid Project No. NH-083-1(072)

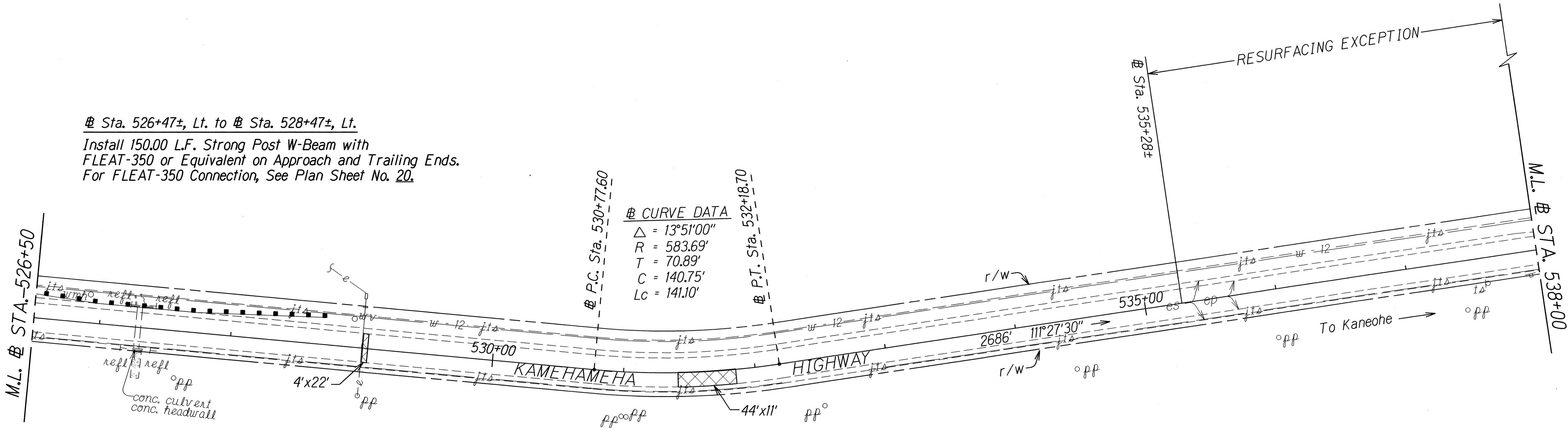
Scale: 1" = 40.0' Date: May, 2015

SHEET No. 8 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	35	107



Sta. 526+47±, Lt. to Sta. 528+47±, Lt.
 Install 150.00 L.F. Strong Post W-Beam with
 FLEAT-350 or Equivalent on Approach and Trailing Ends.
 For FLEAT-350 Connection, See Plan Sheet No. 20.



Sta. 527+74± to Sta. 535+28±
 For Pavement Grade Plan, See Plan Sheet No. 48.

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

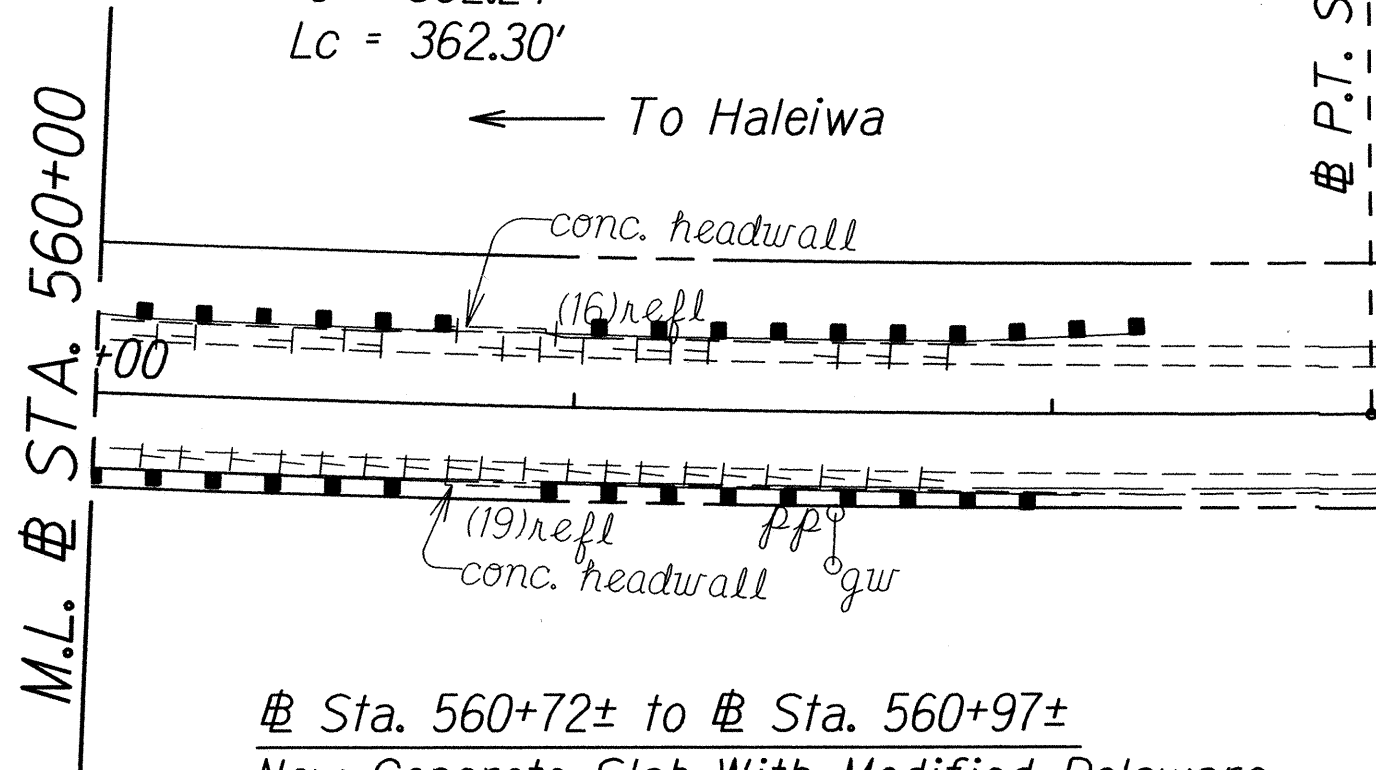
ROADWAY PLANS
 KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiewai Bridge
 Federal-Aid Project No. NH-083-1(072)
 Scale: 1" = 40.0'
 Date: May, 2015

SHEET No. 9 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	37	107

Sta. 556+80± to Sta. 564+93±
 For Pavement Grade Plan, See Plan Sheet No. 49.
 For Full Depth Reconstruction, See Plan Sheet No. 14.

CURVE DATA
 $\Delta = 3^{\circ}37'00''$
 $R = 5739.55'$
 $T = 181.21'$
 $C = 362.24'$
 $Lc = 362.30'$



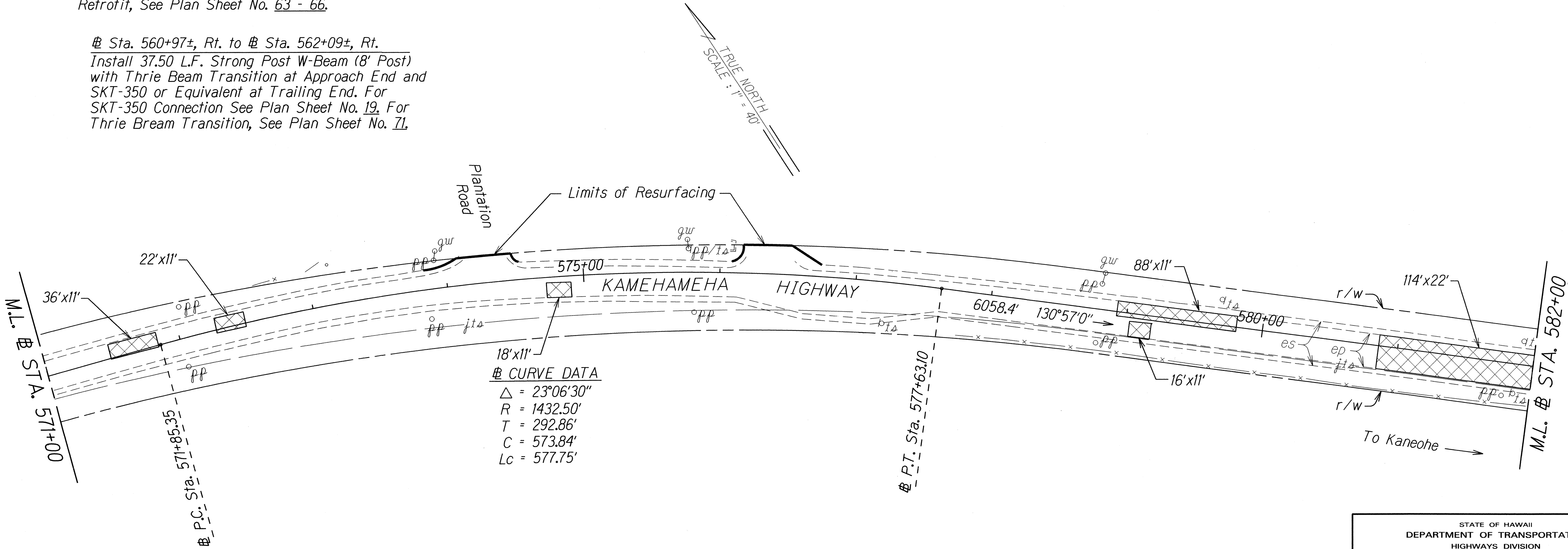
Sta. 560+72± to Sta. 560+97±
 New Concrete Slab With Modified Delaware
 Retrofit, See Plan Sheet No. 63 - 66.

Sta. 560+97±, Rt. to Sta. 562+09±, Rt.
 Install 37.50 L.F. Strong Post W-Beam (8' Post)
 with Thrie Beam Transition at Approach End and
 SKT-350 or Equivalent at Trailing End. For
 SKT-350 Connection See Plan Sheet No. 19. For
 Thrie Beam Transition, See Plan Sheet No. 21.

Sta. 559+72±, Lt. to Sta. 560+72±, Lt.
 Install 37.50 L.F. Strong Post W-Beam (8' Post)
 with Thrie Beam Transition at Approach End
 and FLEAT-350 or Equivalent on Trailing End.
 For FLEAT-350 Connection, See Plan Sheet No. 20.
 For Thrie Beam Transition, See Plan Sheet No. 21.

Sta. 560+97±, Lt. to Sta. 562+22±, Lt.
 Install 62.50 L.F. Strong Post W-Beam (8' Post)
 with FLEAT-350 or Equivalent at Approach End
 and Thrie Beam Transition at Trailing End. For
 Thrie Beam Transition, See Plan Sheet No. 21.
 For FLEAT-350 Connection, See Plan Sheet No. 20.

Sta. 562+67±, Lt. to Sta. 564+19±, Lt.
 New AC Driveway, See Plan Sheet No. 14 & 49.



CURVE DATA
 $\Delta = 23^{\circ}06'30''$
 $R = 1432.50'$
 $T = 292.86'$
 $C = 573.84'$
 $Lc = 577.75'$

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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	QUANTITIES BY	
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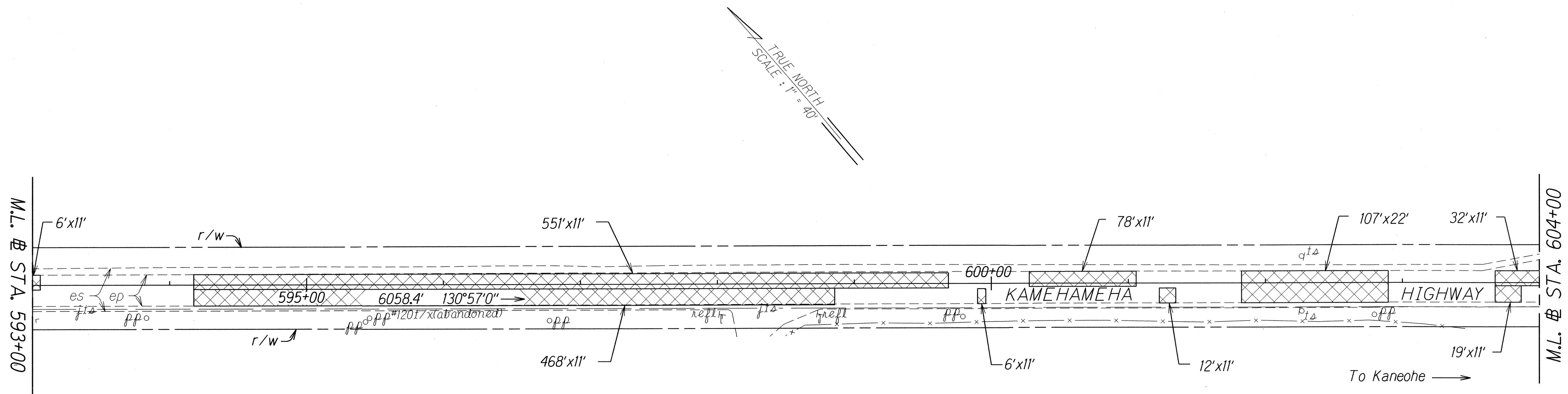
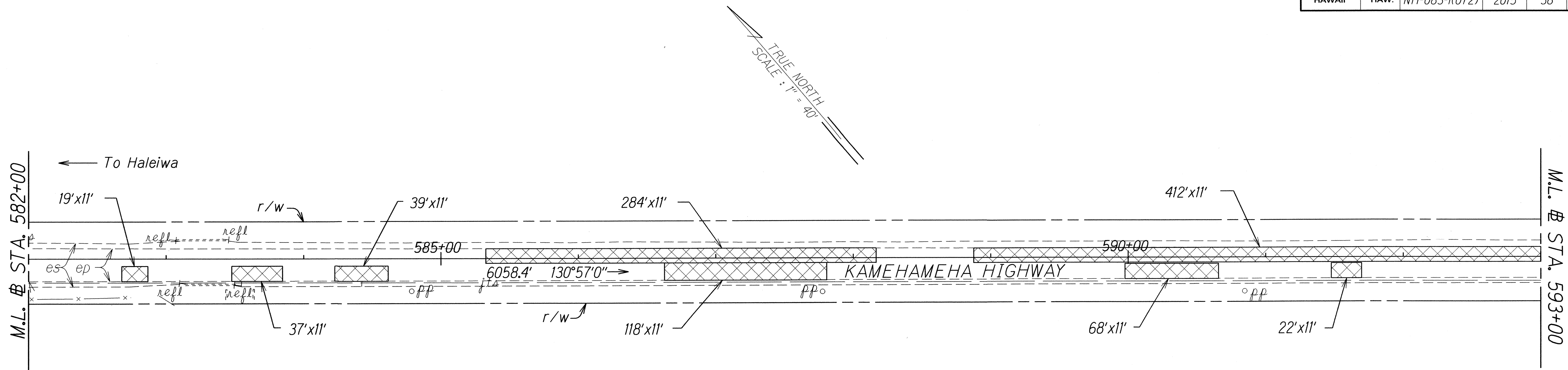
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS
 KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiewai Bridge
 Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0'
 Date: May, 2015

SHEET No. 11 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	38	107



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

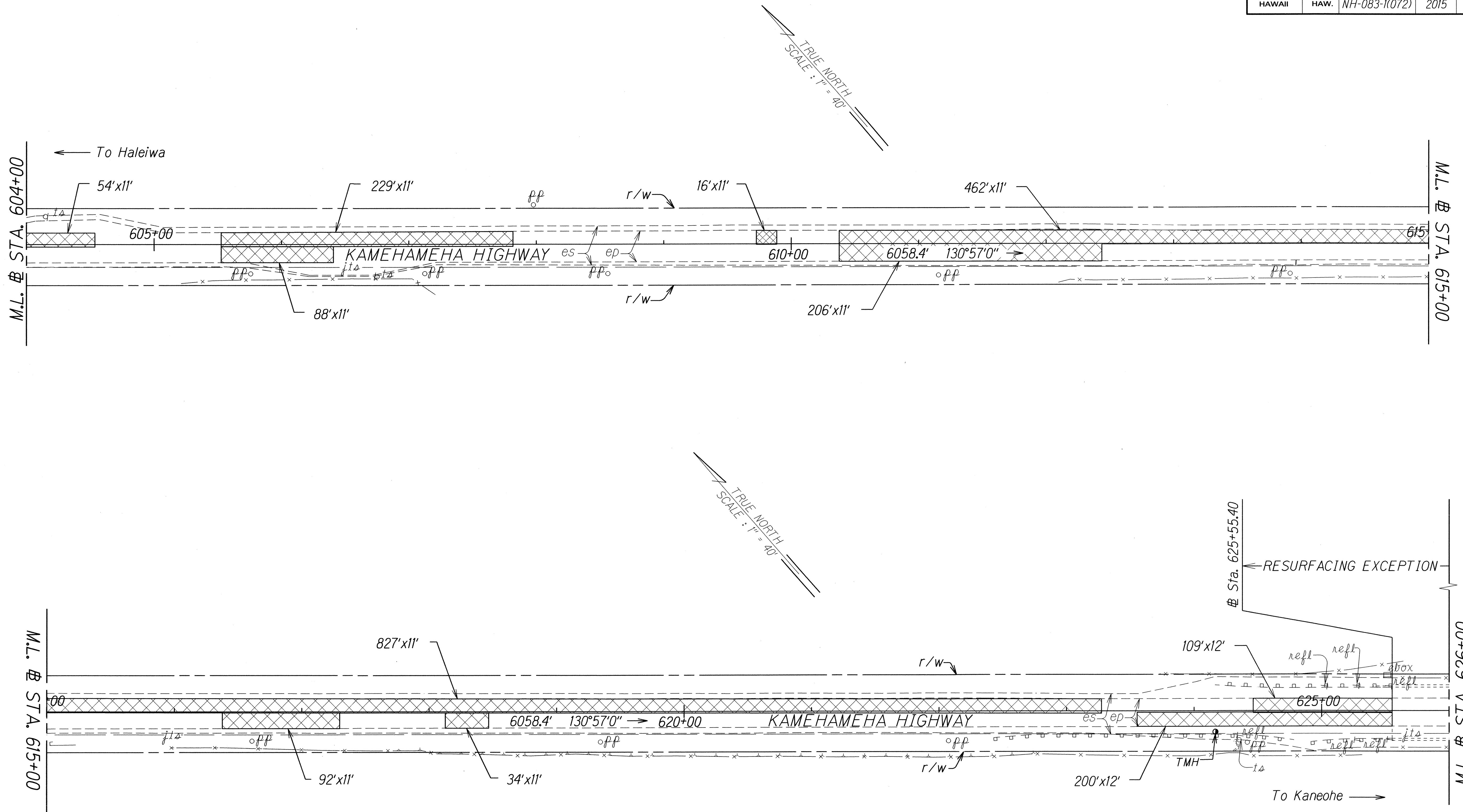
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 12 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	39	107



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

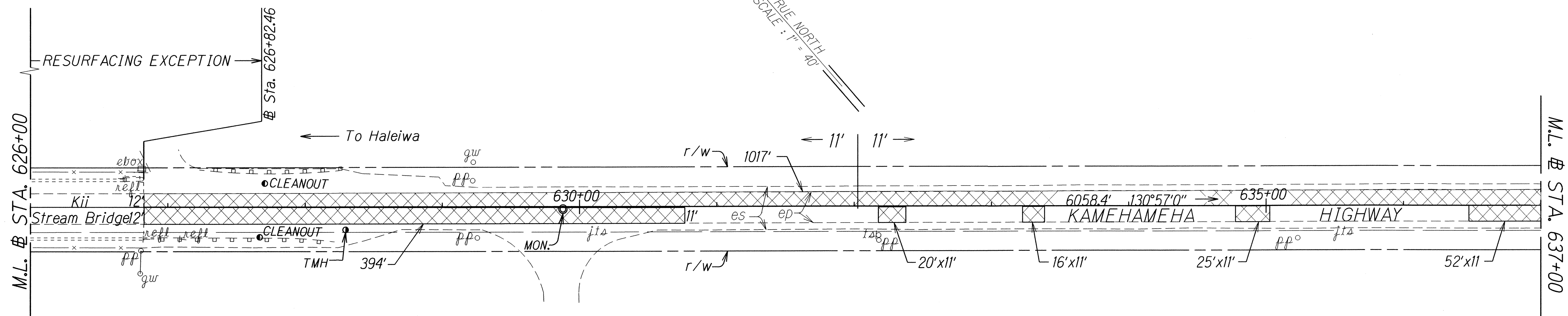
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

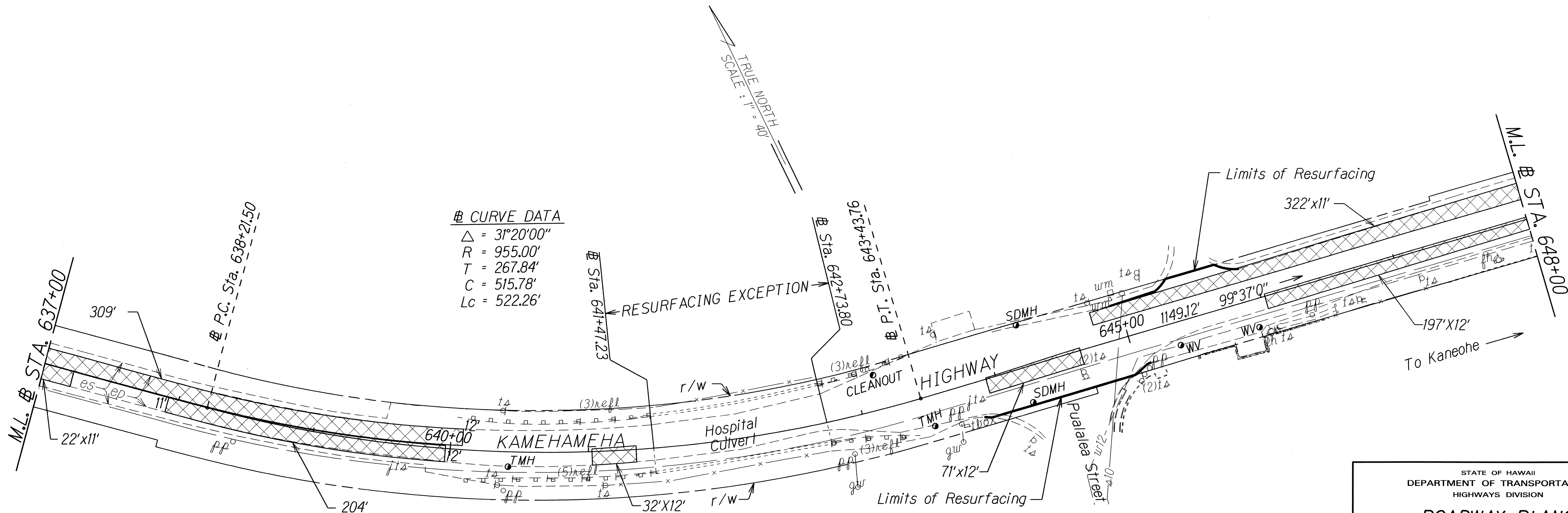
Scale: 1" = 40.0' Date: May, 2015

SHEET No. 13 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	40	107



CURVE DATA
 $\Delta = 31^{\circ}20'00''$
 $R = 955.00'$
 $T = 267.84'$
 $C = 515.78'$
 $Lc = 522.26'$



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

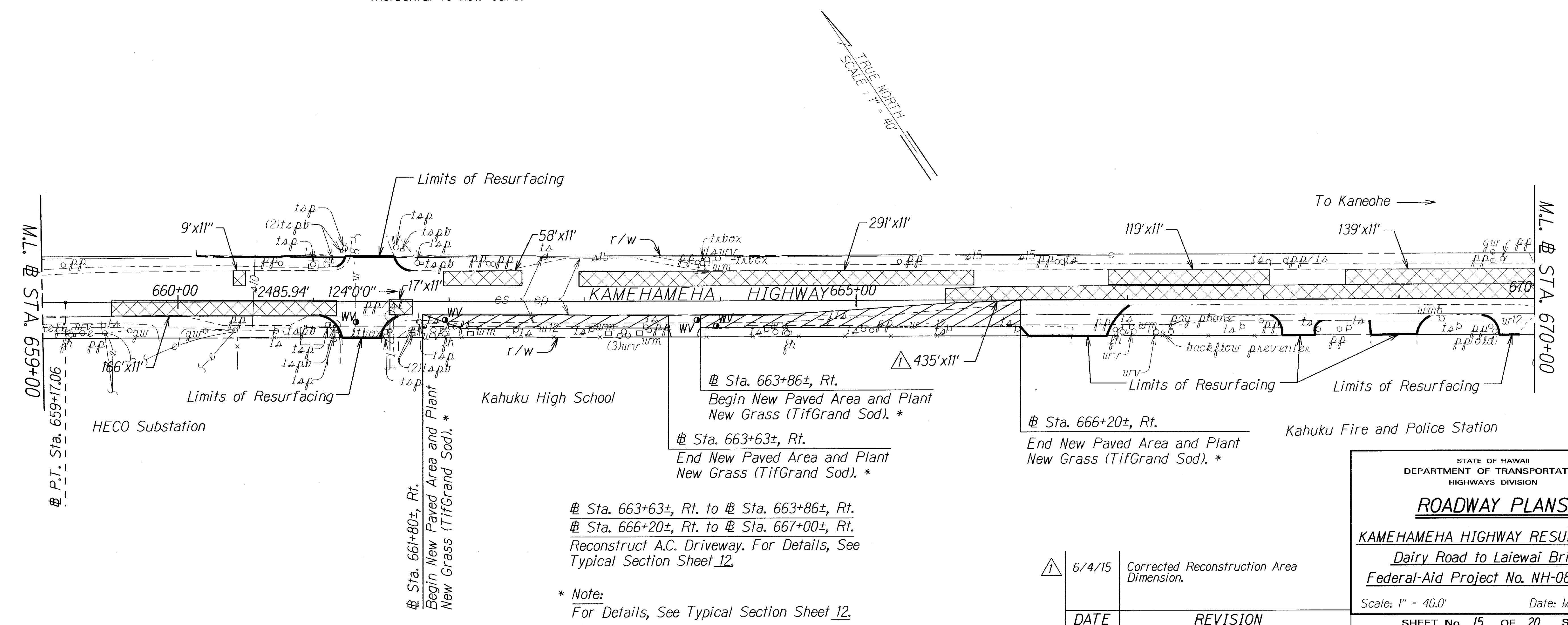
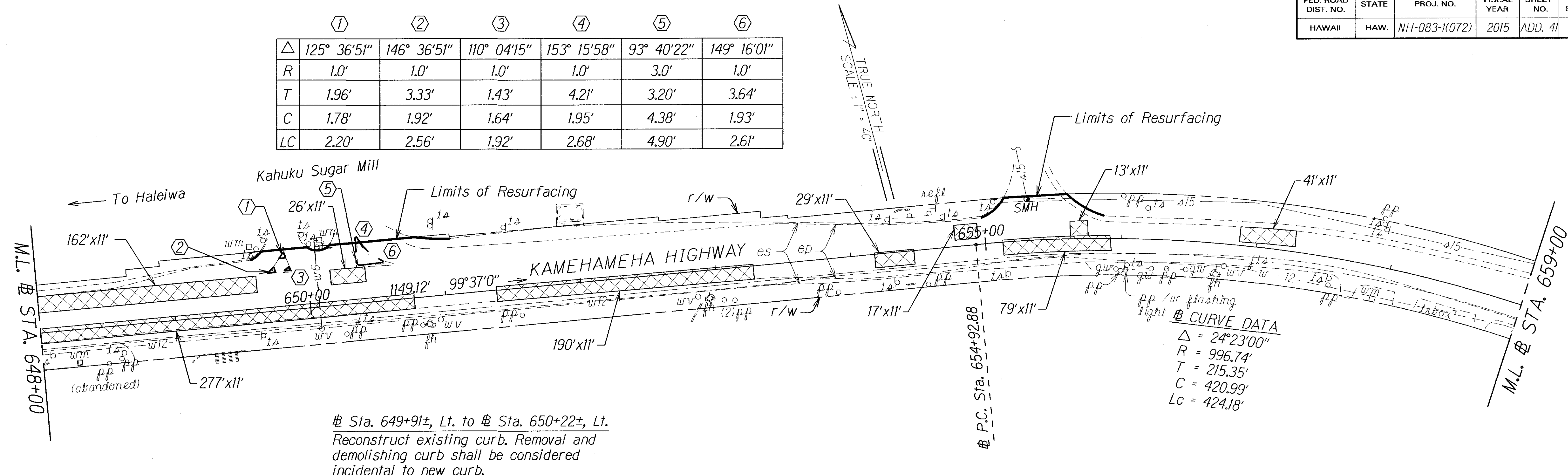
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 14 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	ADD. 41	107



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

Sta. 663+63±, Rt. to Sta. 663+86±, Rt.
 Sta. 666+20±, Rt. to Sta. 667+00±, Rt.
 Reconstruct A.C. Driveway. For Details, See
 Typical Section Sheet 12.

* Note:
 For Details, See Typical Section Sheet 12.

6/4/15	Corrected Reconstruction Area Dimension.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

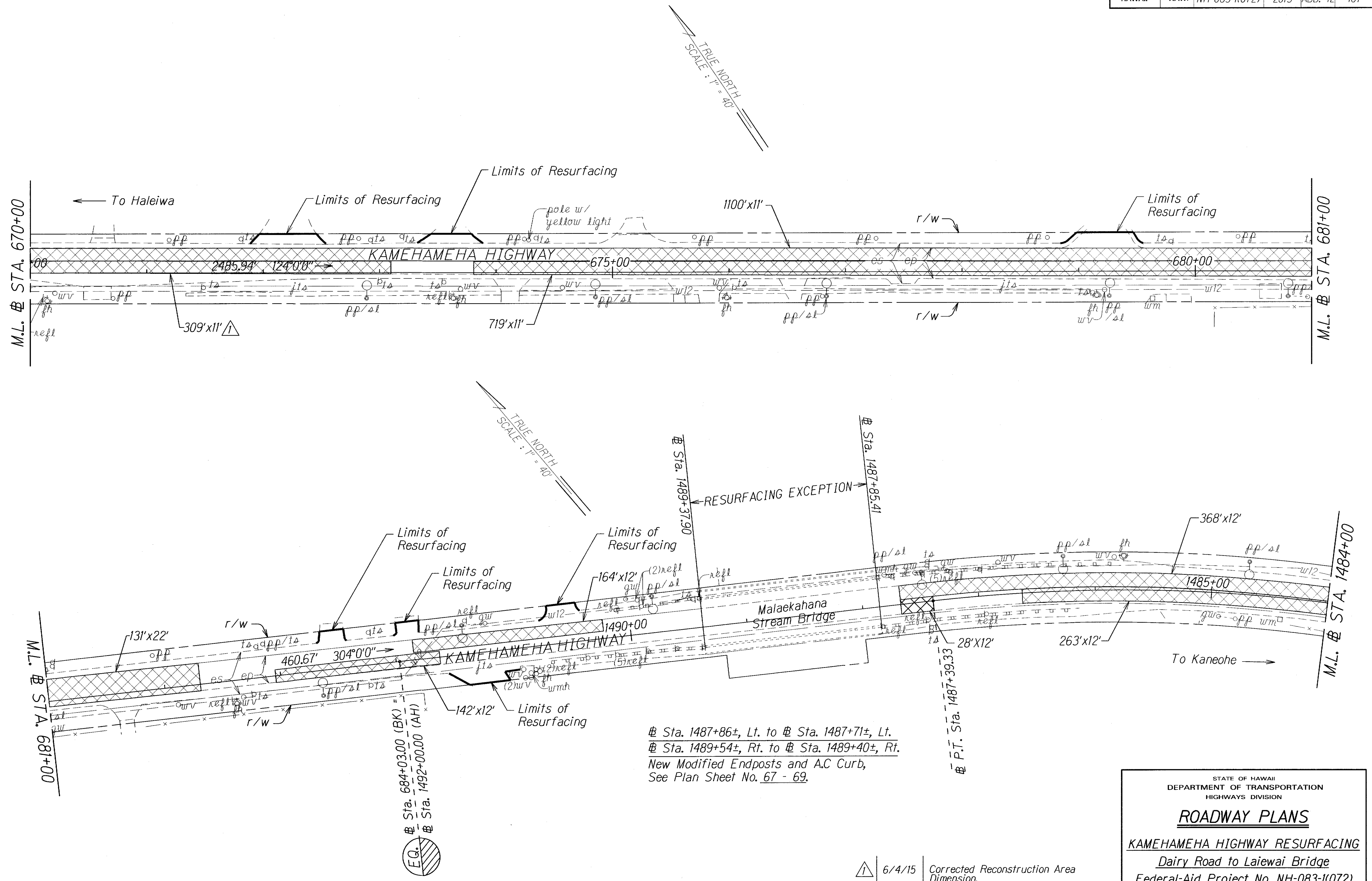
Dairy Road to Laiawai Bridge

Federal-Aid Project No. NH-083-1(072)

Scale: 1" = 40.0' Date: May, 2015

SHEET No. 15 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	ADD. 42	107

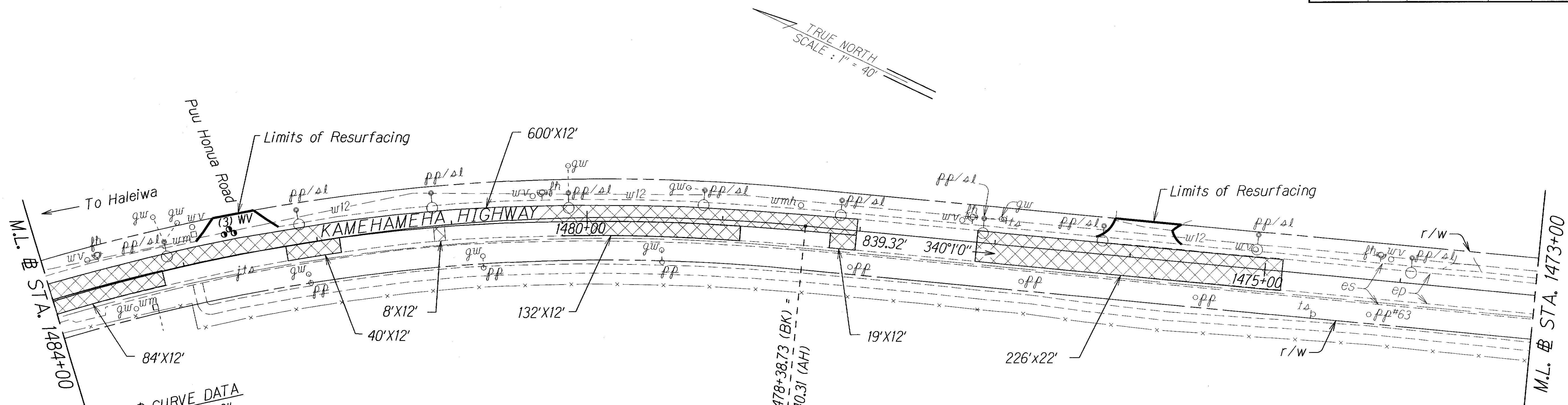


ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

6/4/15	Corrected Reconstruction Area Dimension.
DATE	REVISION

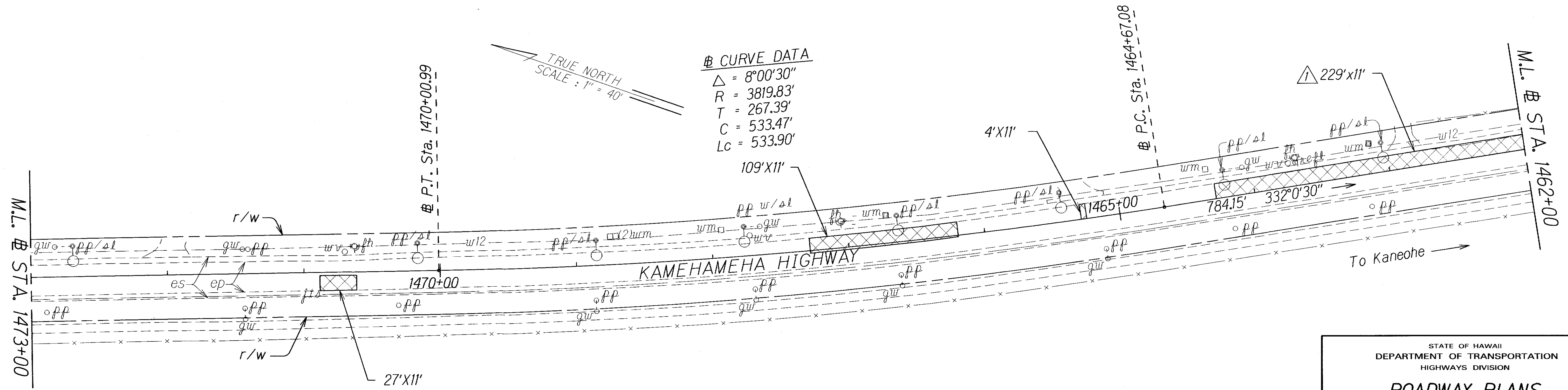
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)
Scale: 1" = 40.0' Date: May, 2015
SHEET No. 16 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	ADD. 43	107



CURVE DATA
 $\Delta = 36^{\circ}01'00''$
 $R = 1432.69'$
 $T = 465.74$
 $C = 885.85$
 $LC = 900.60'$

CURVE DATA
 $\Delta = 8^{\circ}00'30''$
 $R = 3819.83'$
 $T = 267.39'$
 $C = 533.47'$
 $LC = 533.90'$

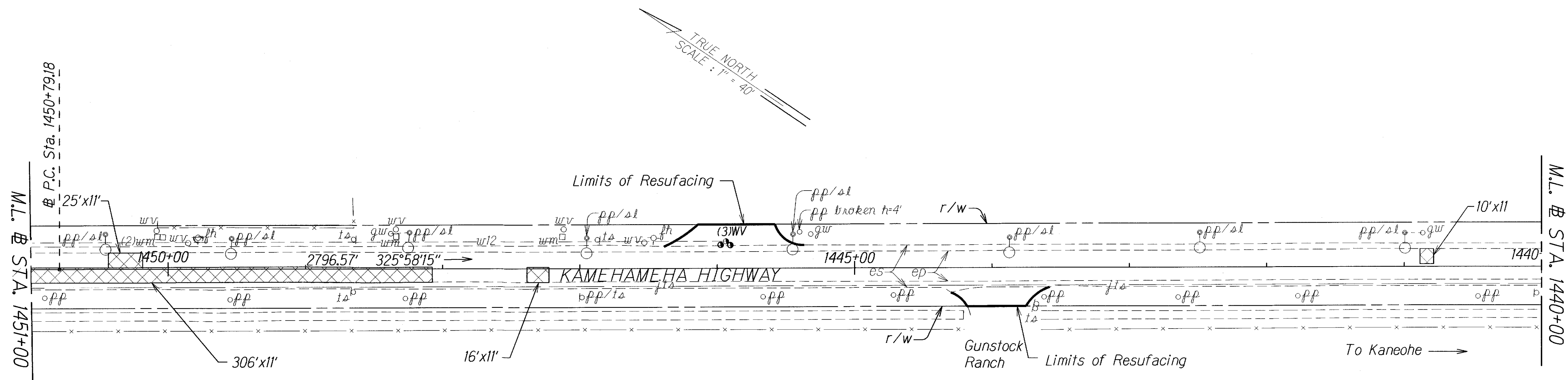
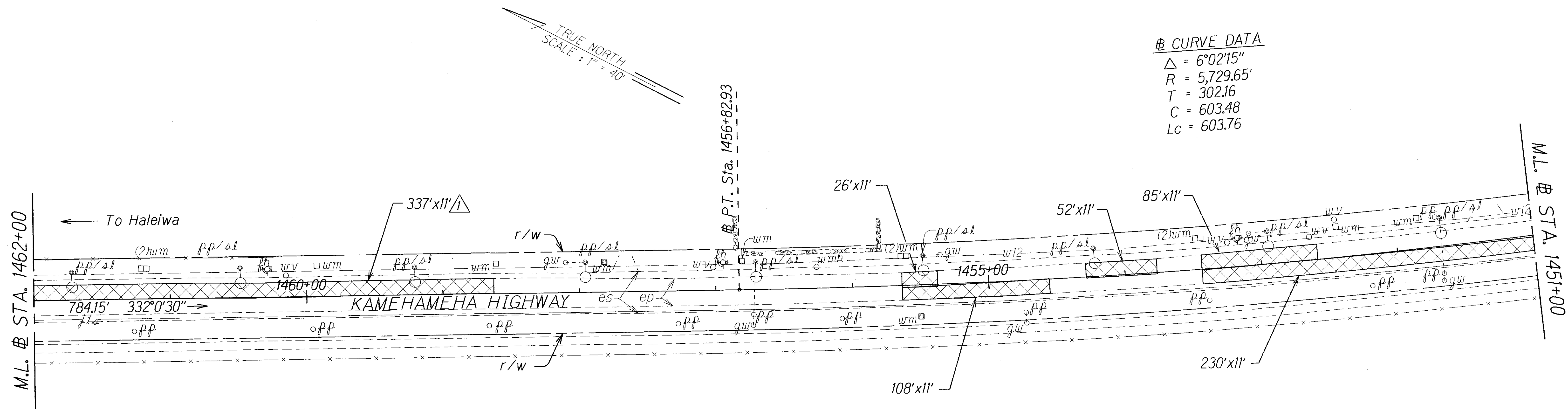


ORIGINAL PLAN	DATE
QUANTITY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	

DATE	6/4/15	Corrected Reconstruction Area Dimension.
DATE		REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiawai Bridge
Federal-Aid Project No. NH-083-1(072)
 Scale: 1" = 40.0' Date: May, 2015
 SHEET No. 17 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-110721	2015	ADD. 44	107



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

DATE	6/4/15	Corrected Reconstruction Area Dimension.
REVISION		

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u><i>ROADWAY PLANS</i></u>	
<u><i>KAMEHAMEHA HIGHWAY RESURFACING</i></u>	
<u><i>Dairy Road to Laiawai Bridge</i></u>	
<u><i>Federal-Aid Project No. NH-083-1(072)</i></u>	
<i>Scale: 1" = 40.0'</i>	<i>Date: May, 2015</i>
SHEET No. 18	OF 20 SHEETS

ADD. 44

