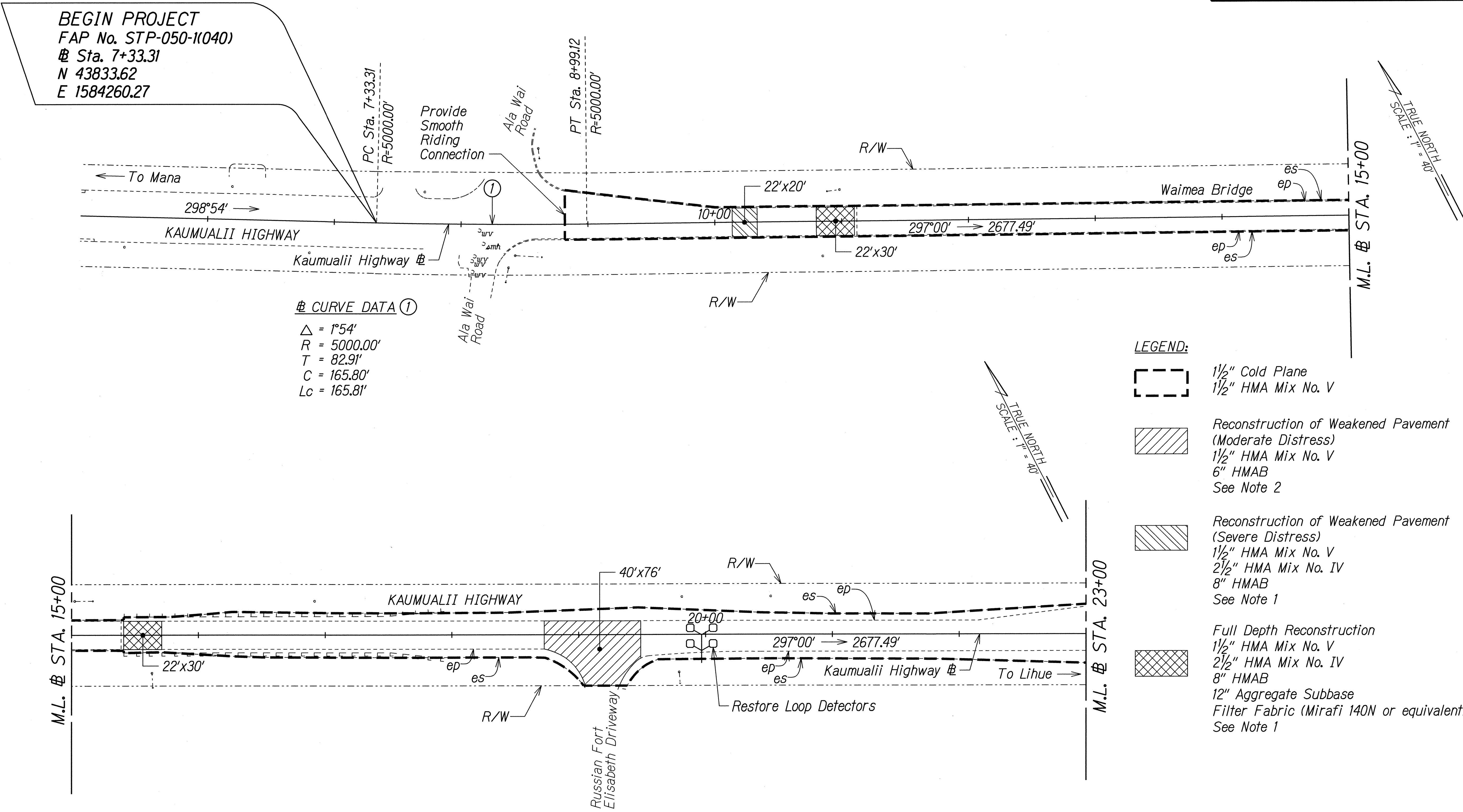


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	10	51



NOTES:

1. Areas of weakened pavement reconstruction (severe distress and full depth reconstruction) shall be constructed prior to cold planing and laying of final HMA surface course to provide a smooth and consistent finish. Assumes 4" HMA Mix No. IV will be used to the existing surface as a temporary condition until 1 1/2" cold planing and the final 1 1/2" HMA Mix No. V is placed.
2. Areas of weakened pavement reconstruction (moderate distress) shall be constructed after cold planing and prior to laying of final HMA surface course to provide a smooth and consistent finish.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 1

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIMEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

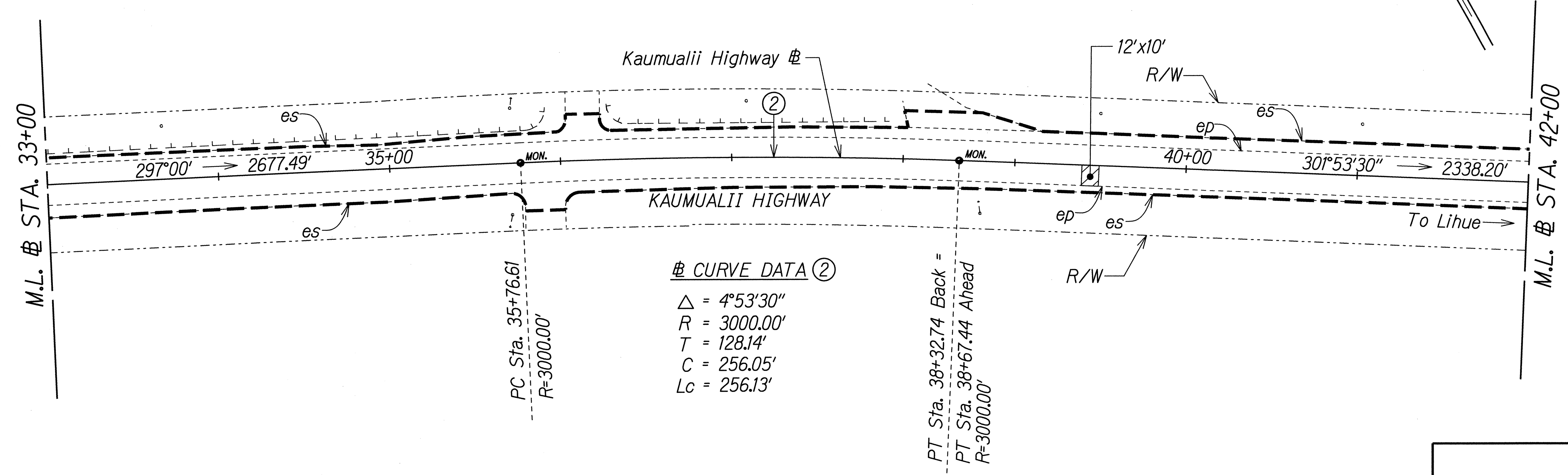
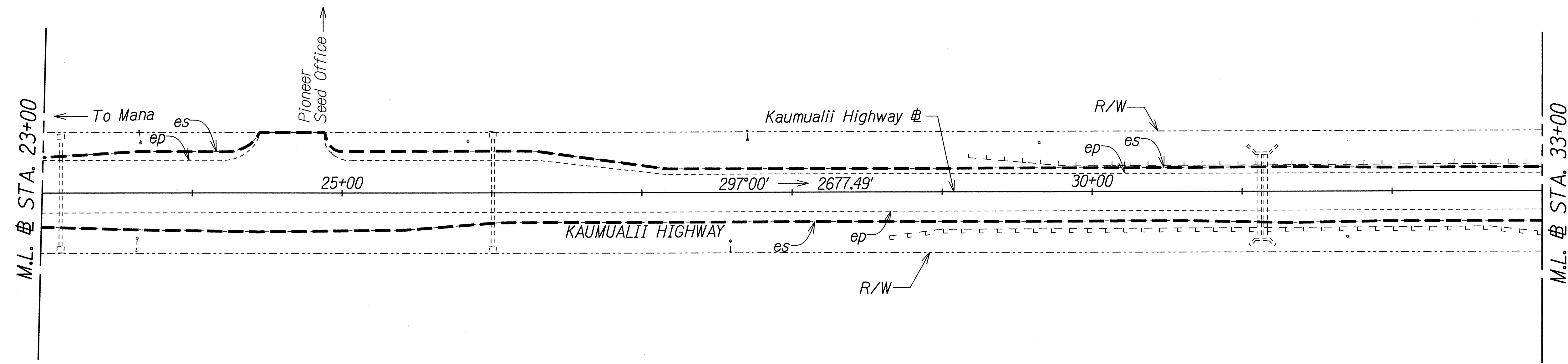
PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

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04/30/16
EXPIRATION DATE OF THE LICENSE

SHEET No. R-1 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	11	51



Ⓔ CURVE DATA Ⓔ
 $\Delta = 4^{\circ}53'30''$
 $R = 3000.00'$
 $T = 128.14'$
 $C = 256.05'$
 $L_c = 256.13'$

- LEGEND:**
- 1 1/2" Cold Plane
 - 1 1/2" HMA Mix No. V
 - Reconstruction of Weakened Pavement (Moderate Distress)
 - 1 1/2" HMA Mix No. V
 - 6" HMAB
 - See Note 2 on Sheet R-1

GENERAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	

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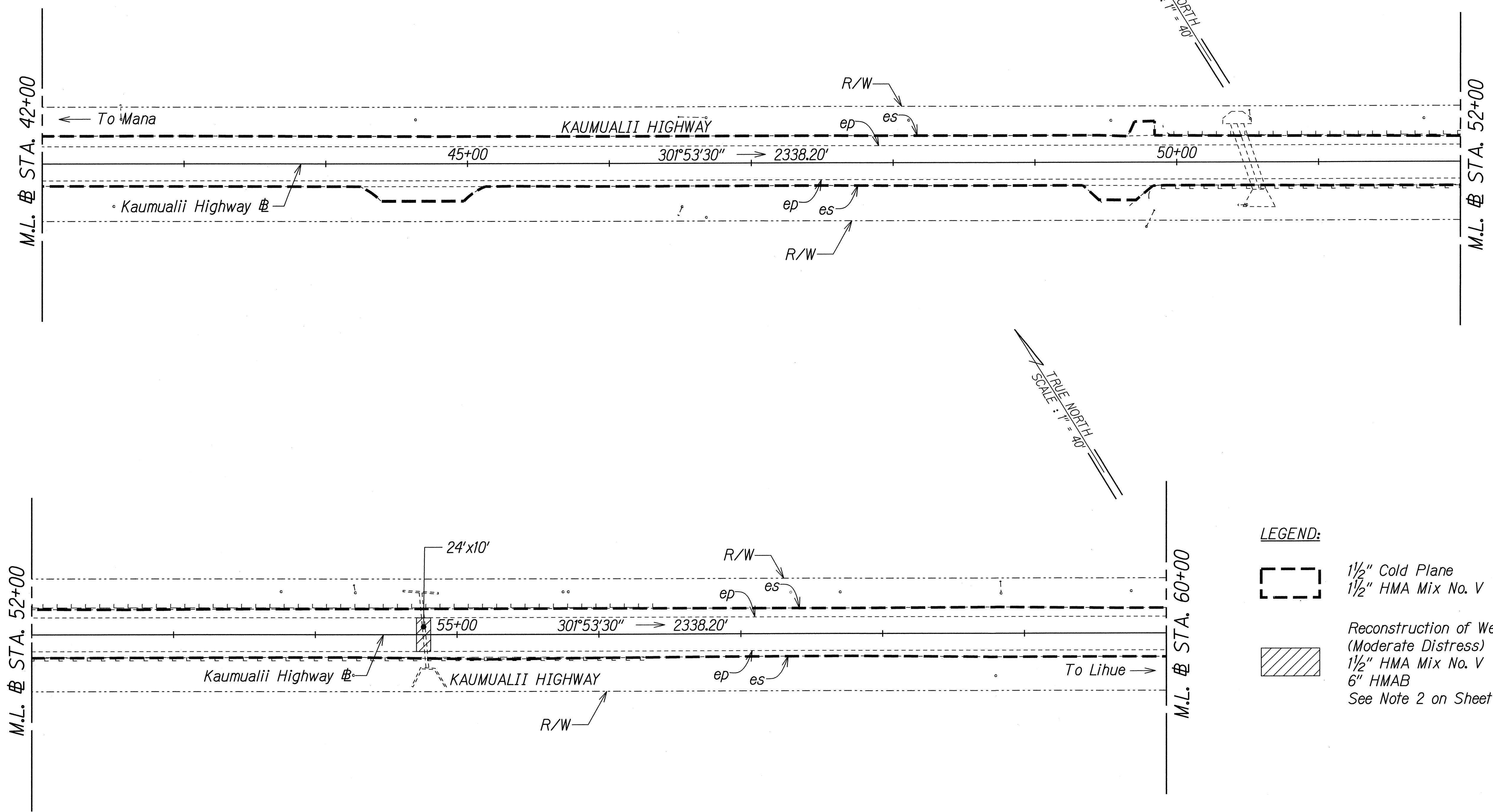
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN - 2

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
 PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
 Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	12	51



- LEGEND:**
- 1 1/2" Cold Plane
 - 1 1/2" HMA Mix No. V
 - Reconstruction of Weakened Pavement (Moderate Distress) 1 1/2" HMA Mix No. V 6" HMAB See Note 2 on Sheet R-1

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

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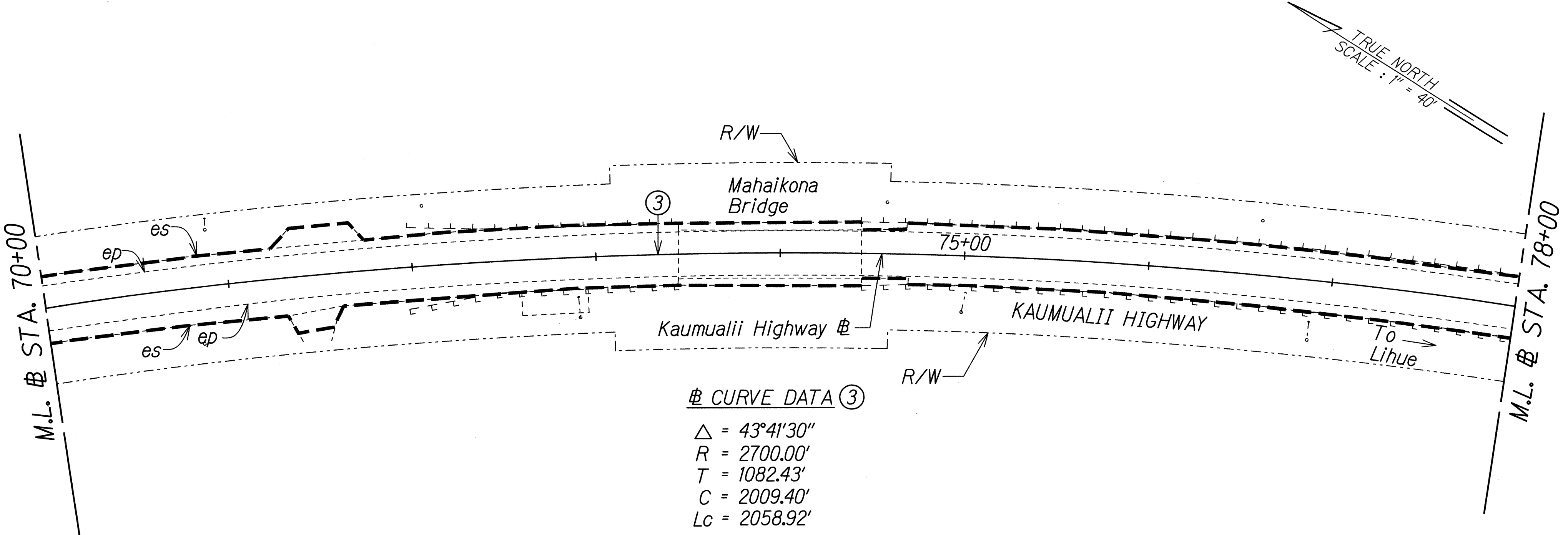
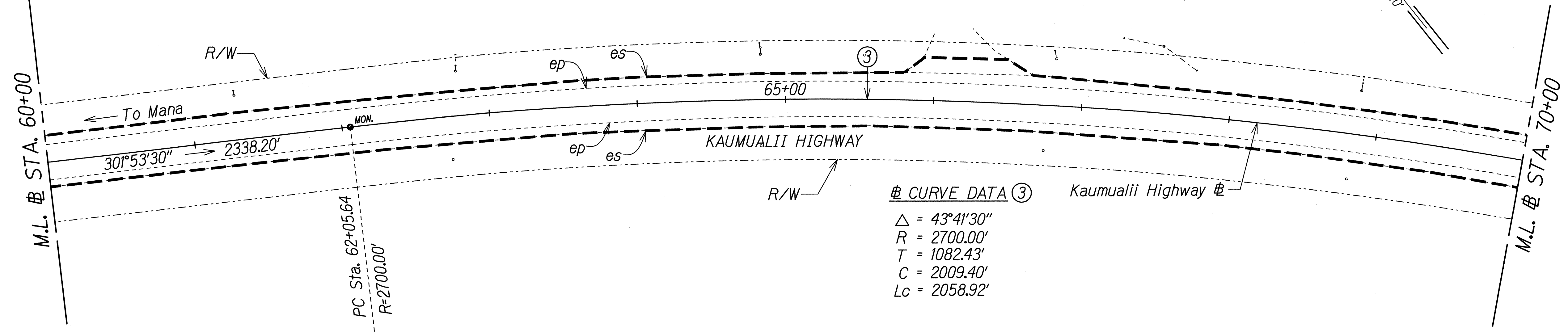
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 3

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(K040)	2014	13	51



LEGEND:

1/2" Cold Plane

1/2" HMA Mix No. V

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
DATE	

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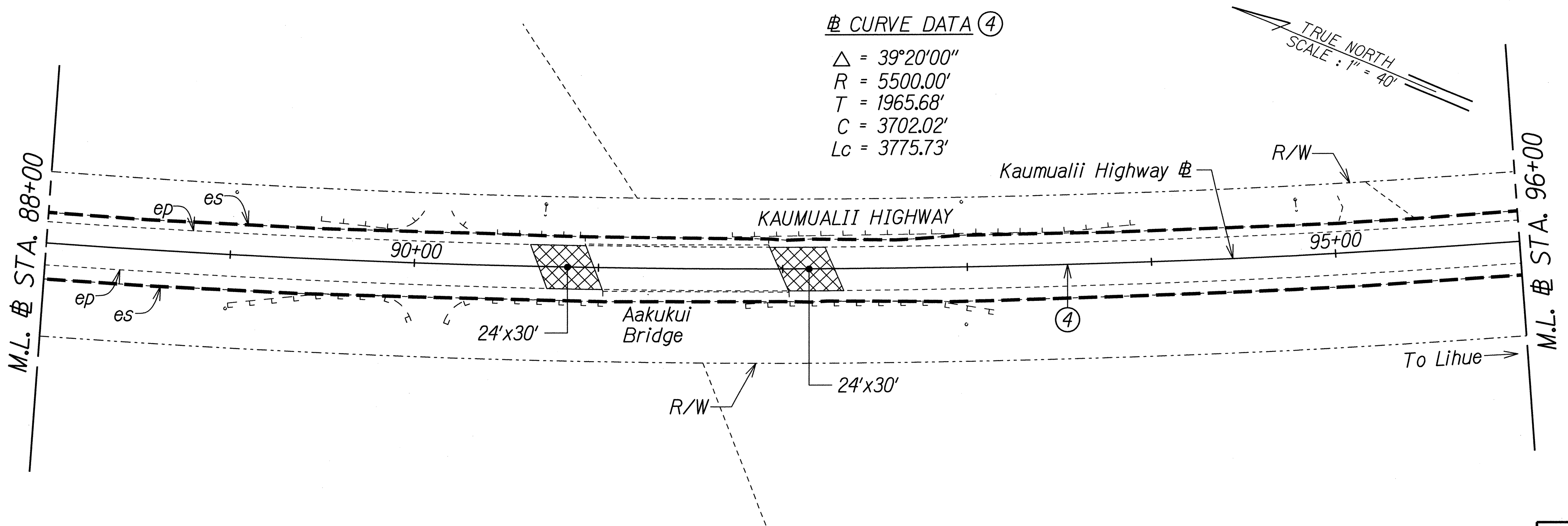
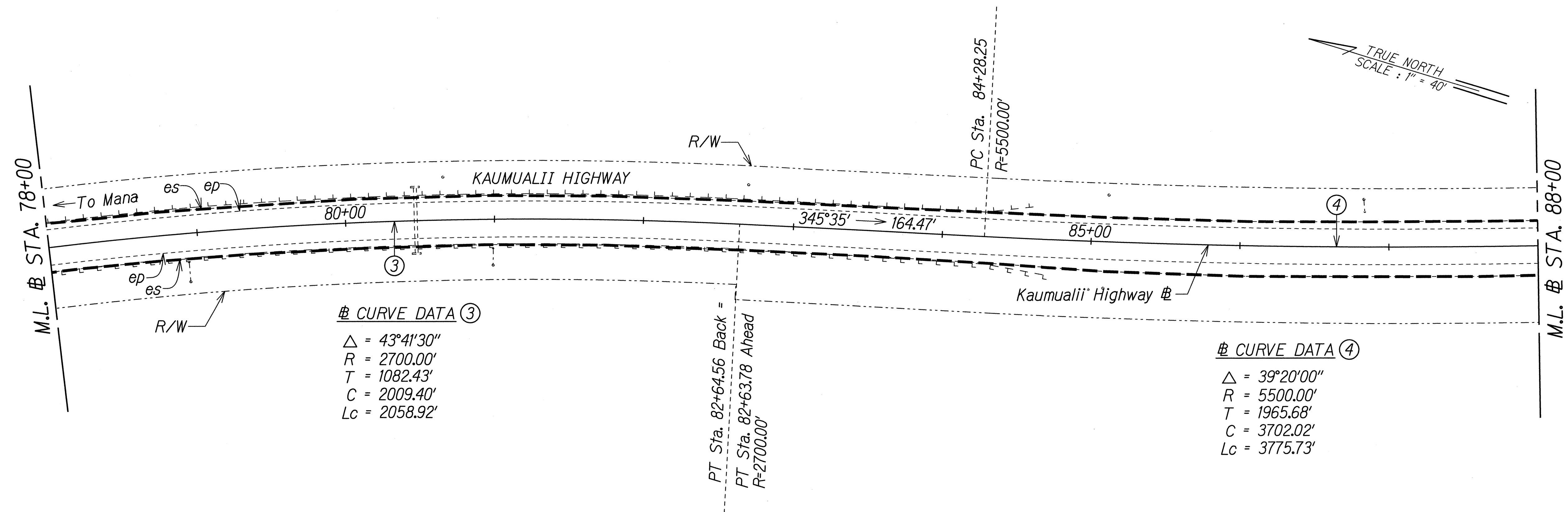
SIGNATURE: *[Signature]* EXPIRATION DATE OF LICENSE: 04/30/16

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 4

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD
Federal Aid Project No. STP-050-1(K040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	14	51



- LEGEND:**
- 1 1/2" Cold Plane
 - 1 1/2" HMA Mix No. V
 - Full Depth Reconstruction
 - 1 1/2" HMA Mix No. V
 - 2 1/2" HMA Mix No. IV
 - 8" HMAB
 - 12" Aggregate Subbase
 - Filter Fabric (Mirafi 140N or equivalent)
 - See Note 1 on Sheet R-1

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

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P. Uyeda 04/30/16
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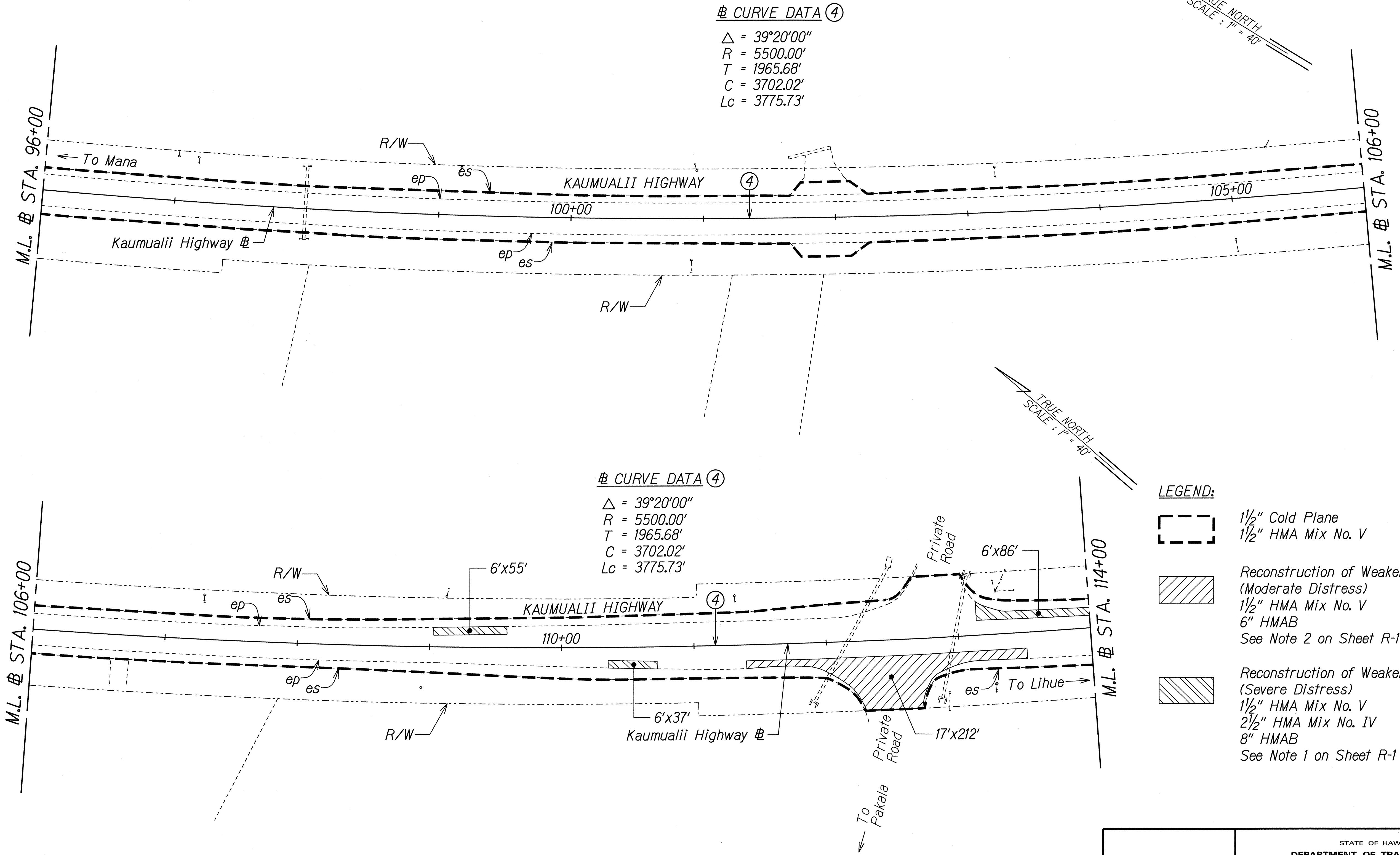
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 5

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(K040)	2014	15	51



- LEGEND:
- 1 1/2\"/>
 - Reconstruction of Weakened Pavement (Moderate Distress)
1 1/2\"/>
 - Reconstruction of Weakened Pavement (Severe Distress)
1 1/2\"/>

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

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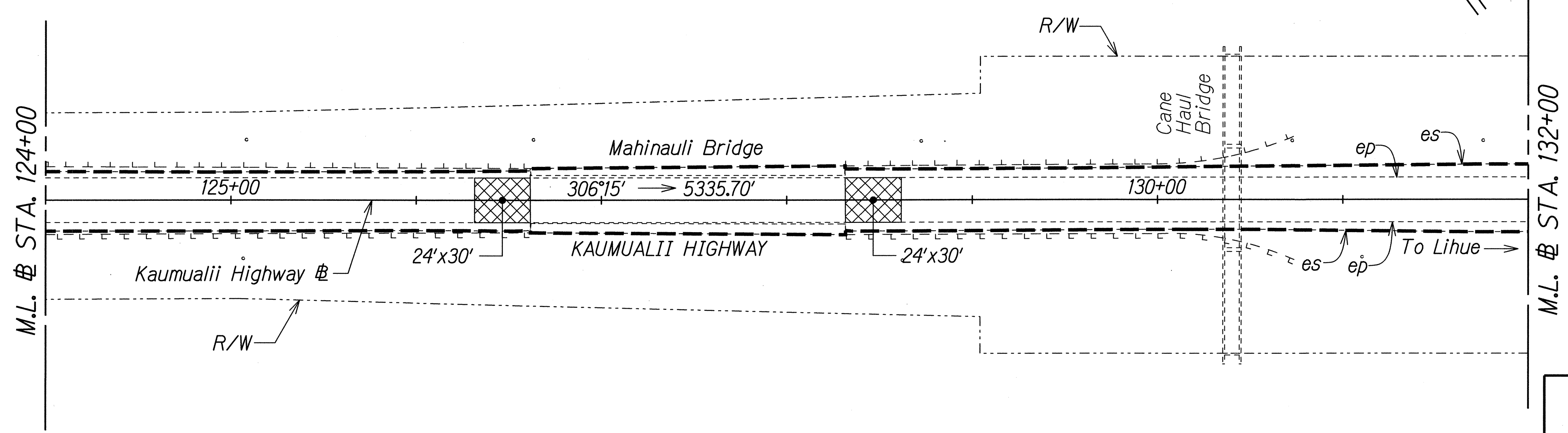
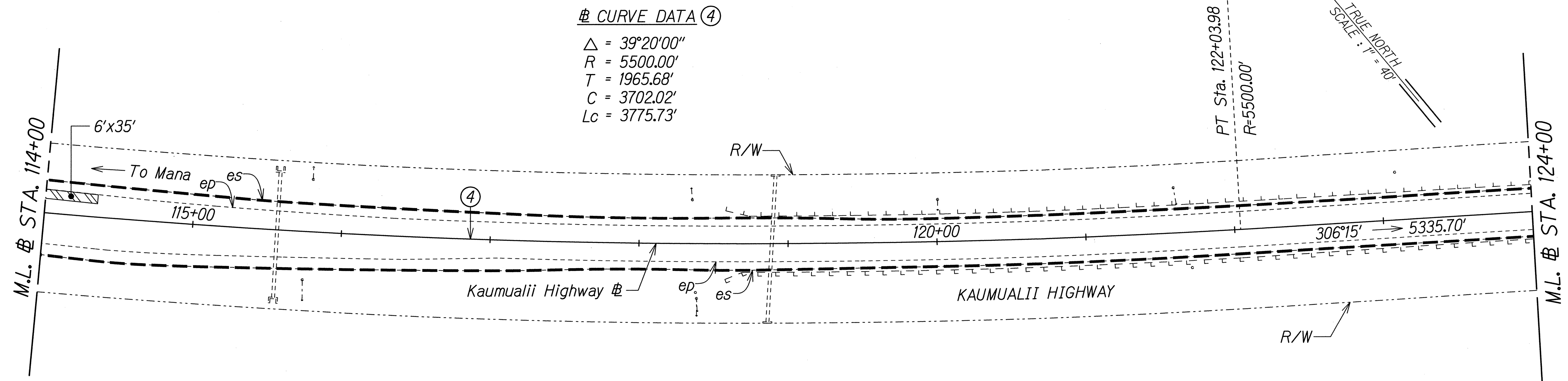
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 6

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(K040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	16	51



- LEGEND:**
- 1 1/2\" Cold Plane
 - 1 1/2\" HMA Mix No. V
 - Reconstruction of Weakened Pavement (Severe Distress)
 - 1 1/2\" HMA Mix No. V
 - 2 1/2\" HMA Mix No. IV
 - 8\" HMAB
 - See Note 1 on Sheet R-1
 - Full Depth Reconstruction
 - 1 1/2\" HMA Mix No. V
 - 2 1/2\" HMA Mix No. IV
 - 8\" HMAB
 - 12\" Aggregate Subbase
 - Filter Fabric (Mirafi 140N or equivalent)
 - See Note 1 on Sheet R-1

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

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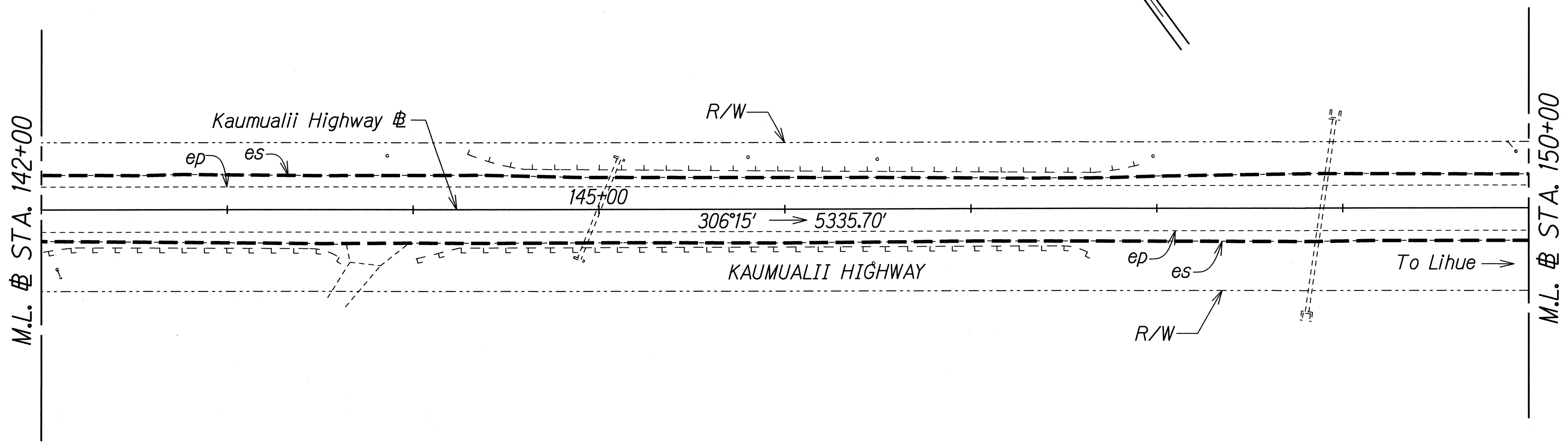
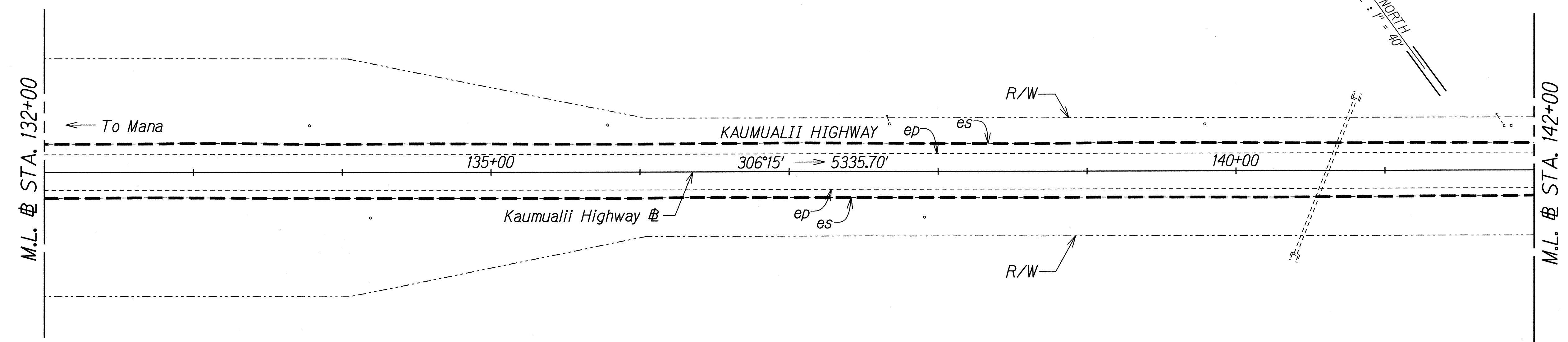
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 7

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	17	51



LEGEND:

1/2" Cold Plane

1/2" HMA Mix No. V

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

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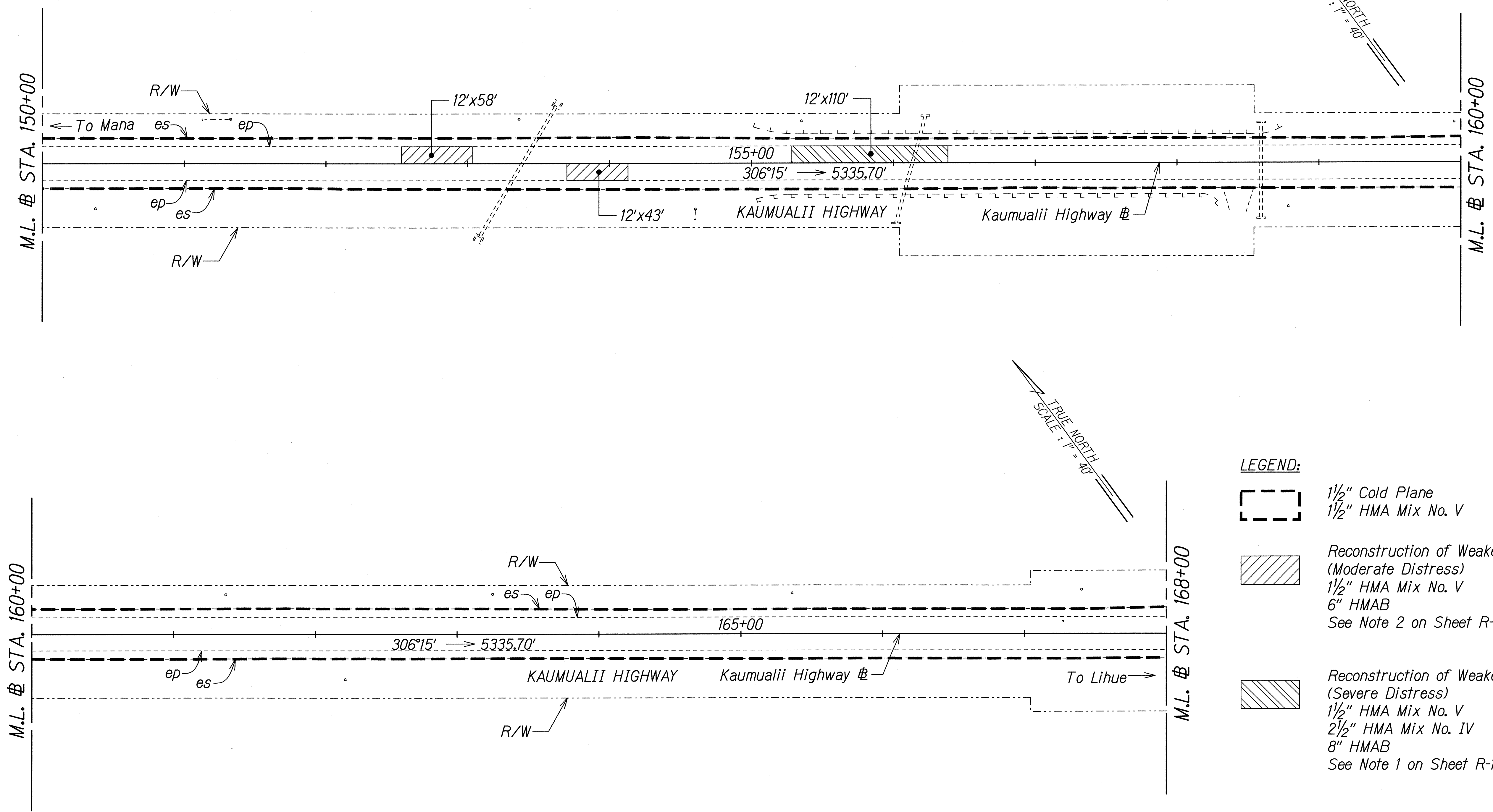
SIGNATURE: *[Signature]* EXPIRATION DATE OF THE LICENSE: 04/30/16

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 8

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD
Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	18	51



- LEGEND:**
- 1 1/2" Cold Plane
 - 1 1/2" HMA Mix No. V
 - Reconstruction of Weakened Pavement (Moderate Distress) 1 1/2" HMA Mix No. V 6" HMAB See Note 2 on Sheet R-1
 - Reconstruction of Weakened Pavement (Severe Distress) 1 1/2" HMA Mix No. V 2 1/2" HMA Mix No. IV 8" HMAB See Note 1 on Sheet R-1

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 9

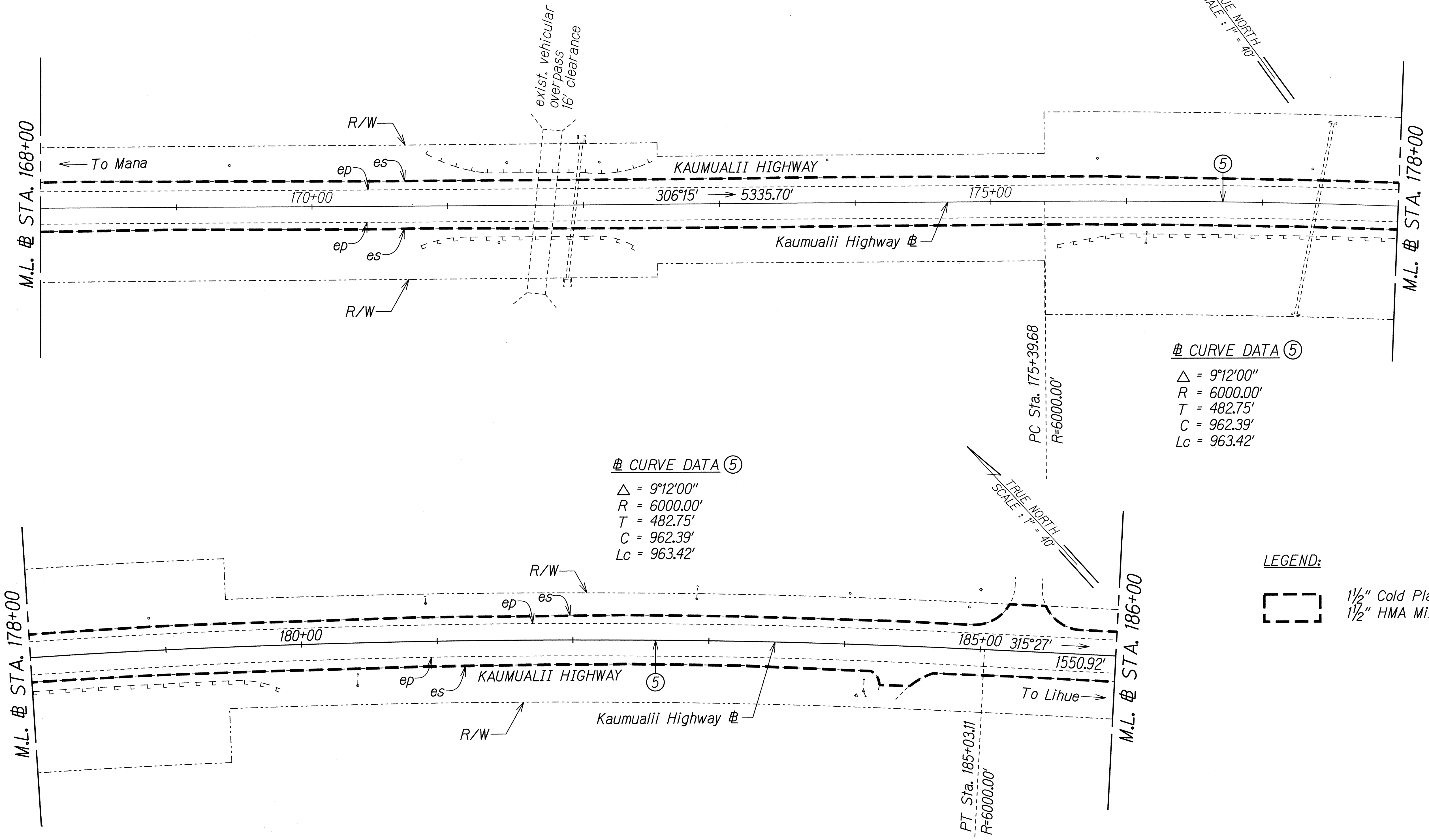
KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

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

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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	19	51



ORIGINAL PLAN	DATE
DESIGNED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

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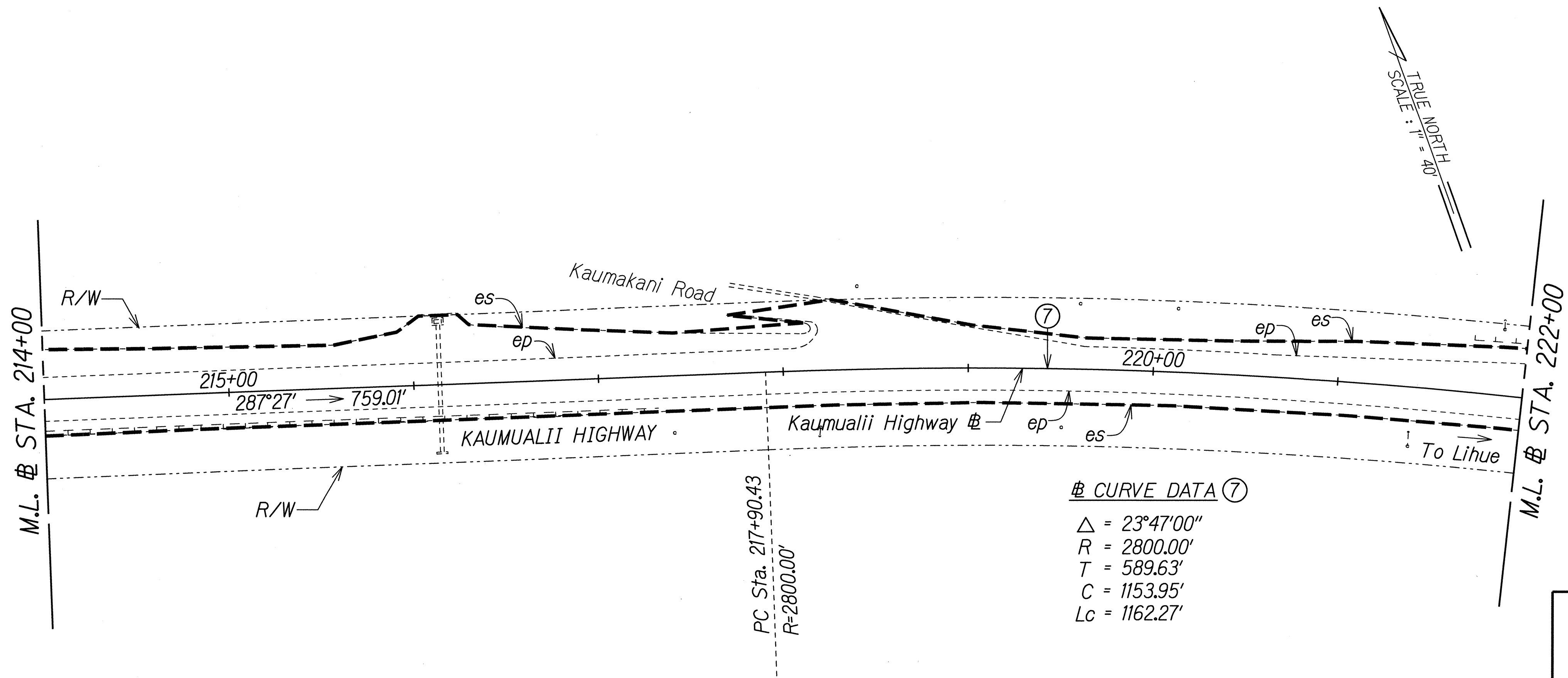
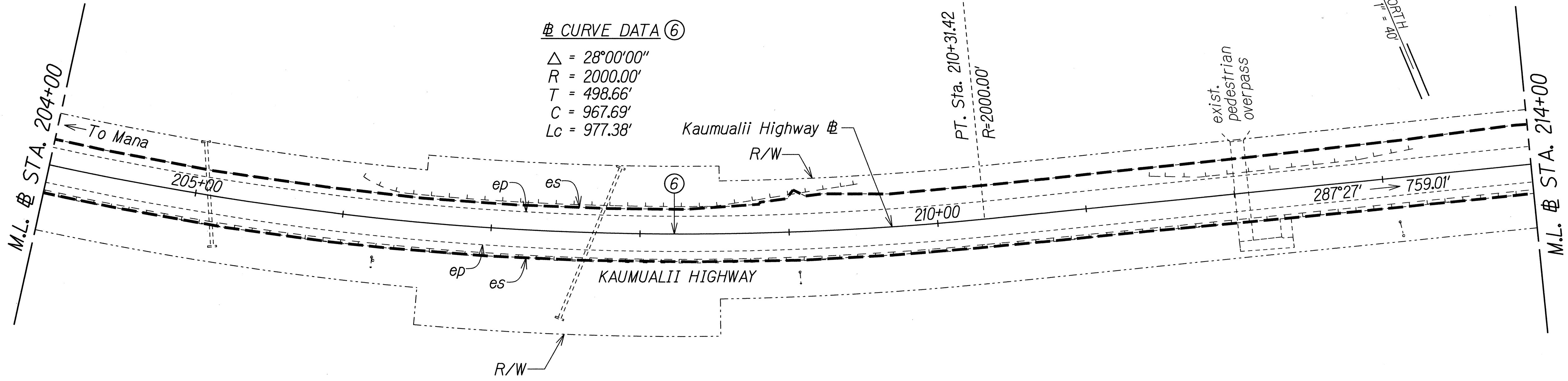
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 10

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIMEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	21	51



LEGEND:

1/2" Cold Plane

1/2" HMA Mix No. V

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

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04/30/16

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLAN - 12

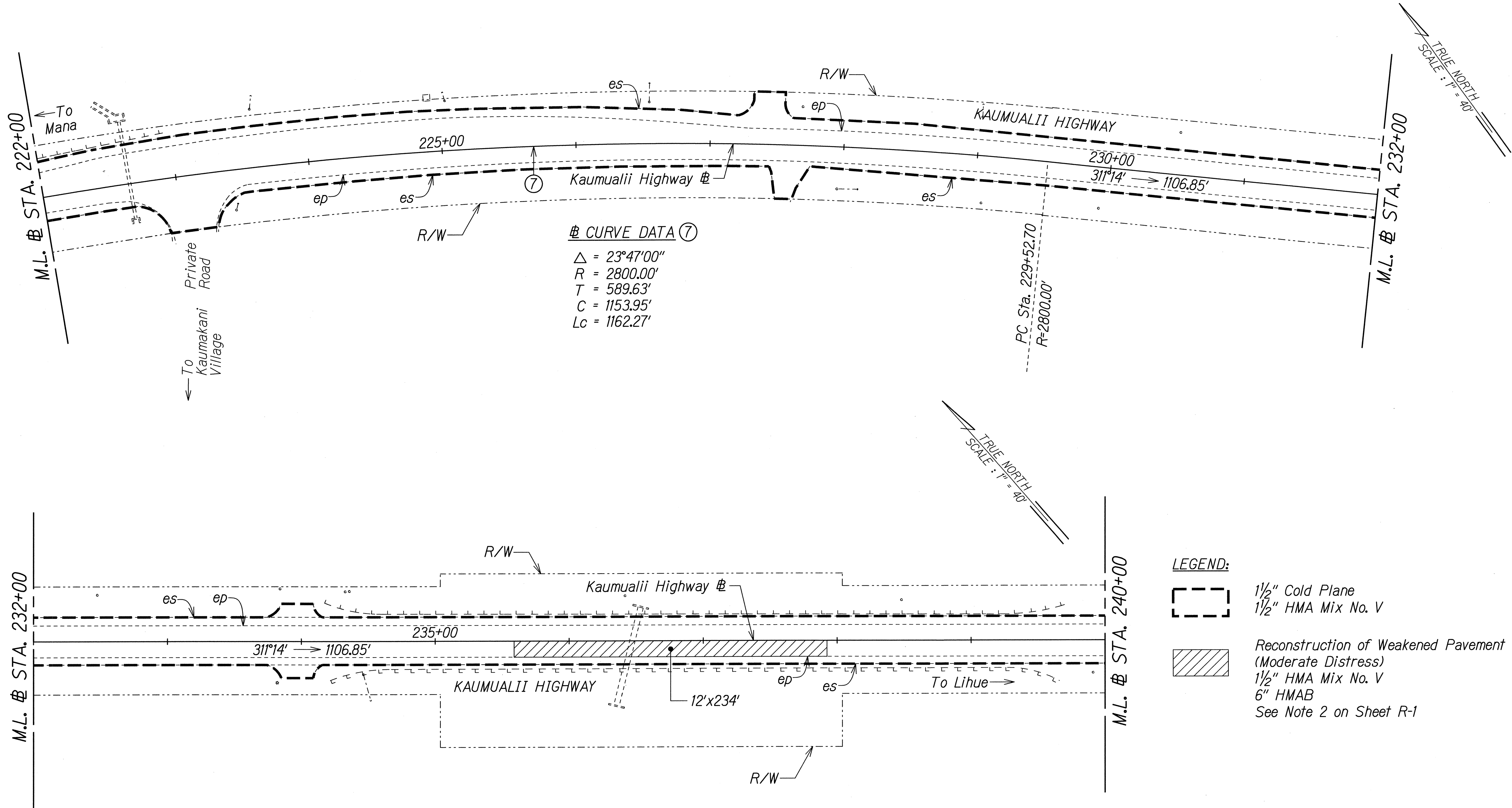
KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE

PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)

Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	22	51



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

T:\16459A PPM\Kaumualii Hwy\Cadd\Sheets\Phase 2\Road-43.dgn

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

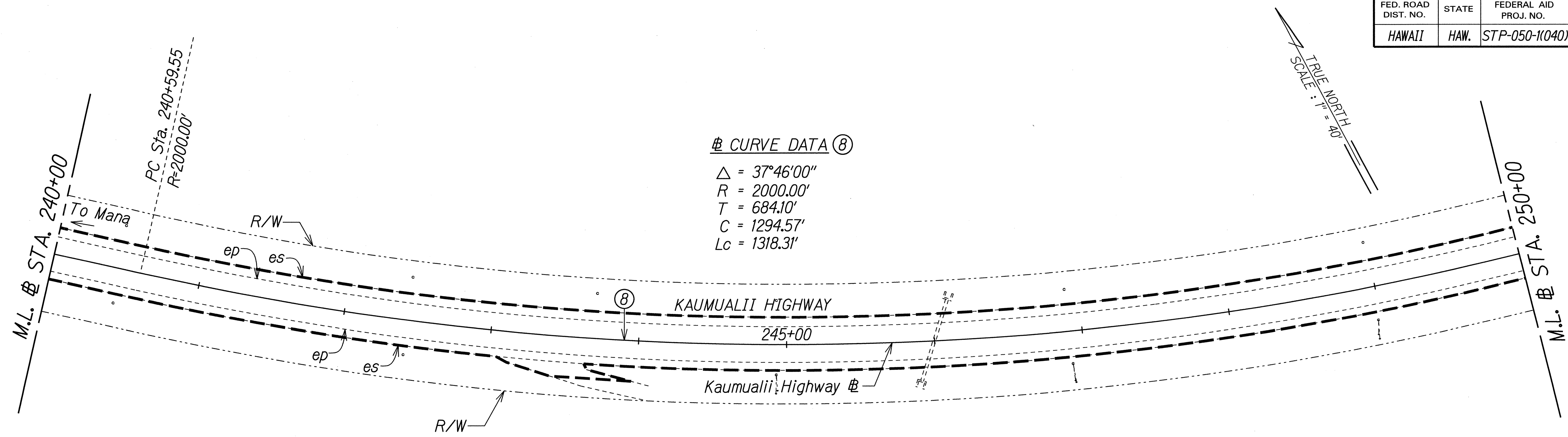
ROADWAY PLAN - 13

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIHEA RIVER BRIDGE TO LELE ROAD

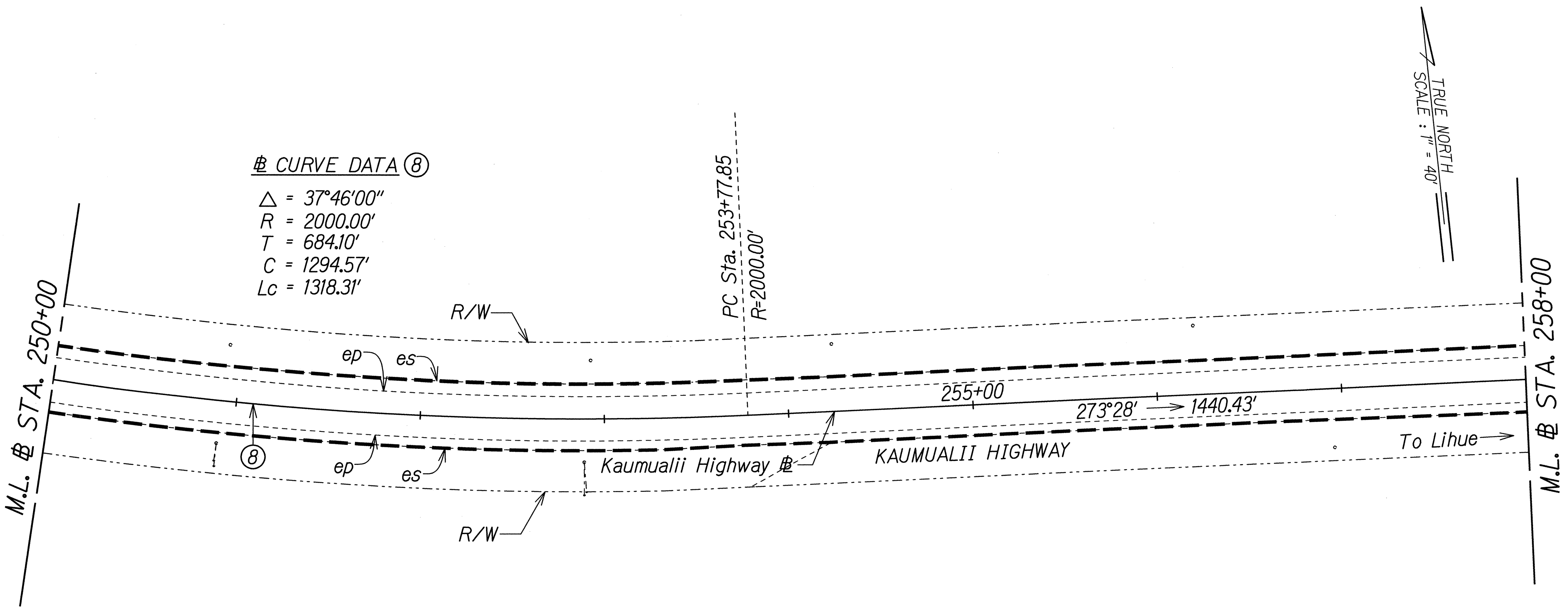
Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

SHEET No. R-13 OF 18 SHEETS

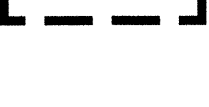
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	23	51



Ⓢ CURVE DATA Ⓢ
 $\Delta = 37^{\circ}46'00''$
 $R = 2000.00'$
 $T = 684.10'$
 $C = 1294.57'$
 $L_c = 1318.31'$

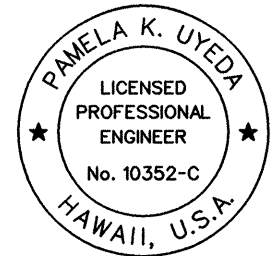


Ⓢ CURVE DATA Ⓢ
 $\Delta = 37^{\circ}46'00''$
 $R = 2000.00'$
 $T = 684.10'$
 $C = 1294.57'$
 $L_c = 1318.31'$

LEGEND:
 1 1/2" Cold Plane
 1 1/2" HMA Mix No. V

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

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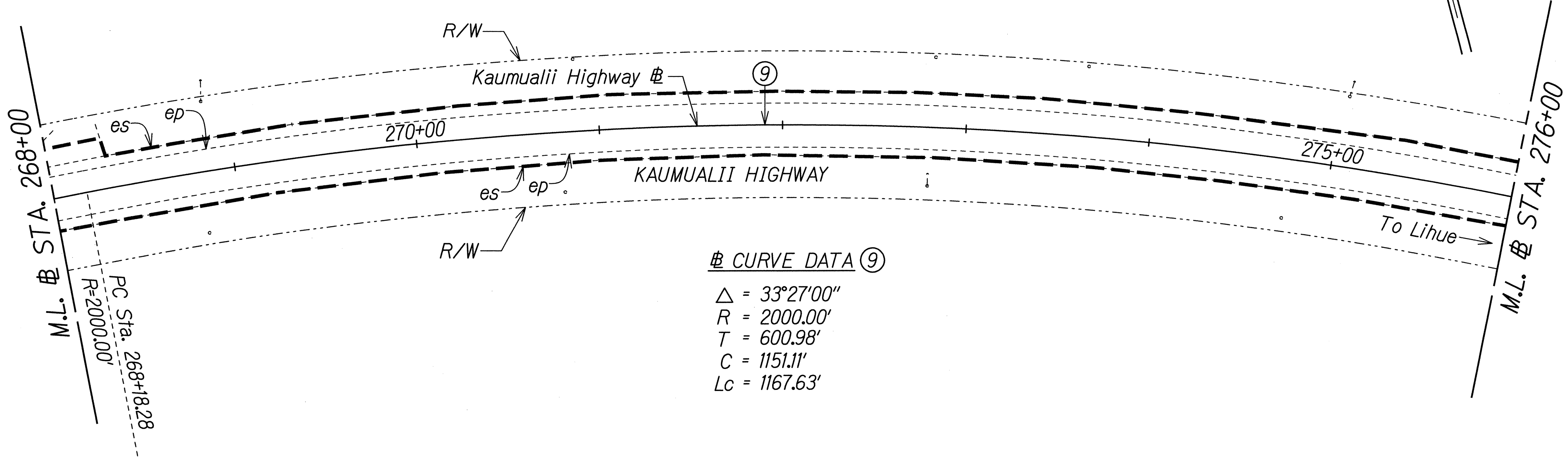
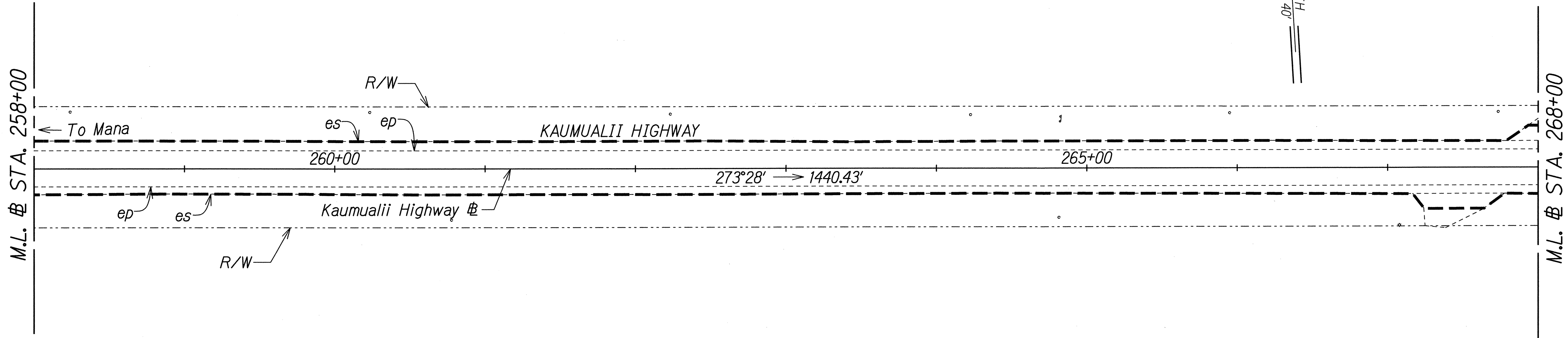
P. Uyeda 04/30/16
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN - 14

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
 PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD
 Federal Aid Project No. STP-050-1(040)
 Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	24	51



Ⓢ CURVE DATA ⑨
 $\Delta = 33^{\circ}27'00''$
 $R = 2000.00'$
 $T = 600.98'$
 $C = 1151.11'$
 $Lc = 1167.63'$

LEGEND:
 [---] 1 1/2" Cold Plane
 [---] 1 1/2" HMA Mix No. V

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

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 SIGNATURE: *P. Uyeda* EXPIRATION DATE OF THE LICENSE: 04/30/16

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

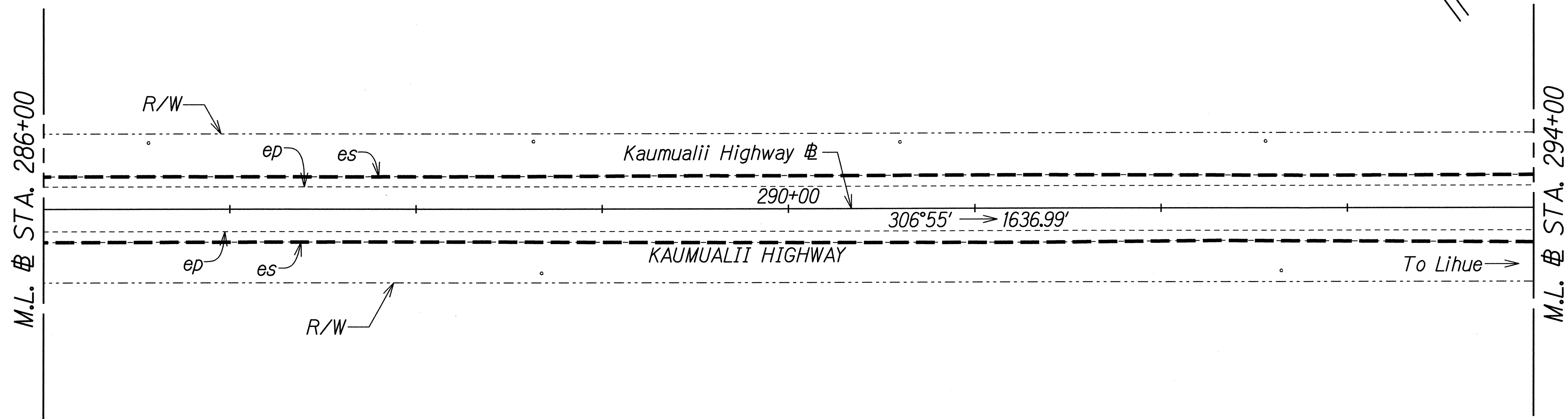
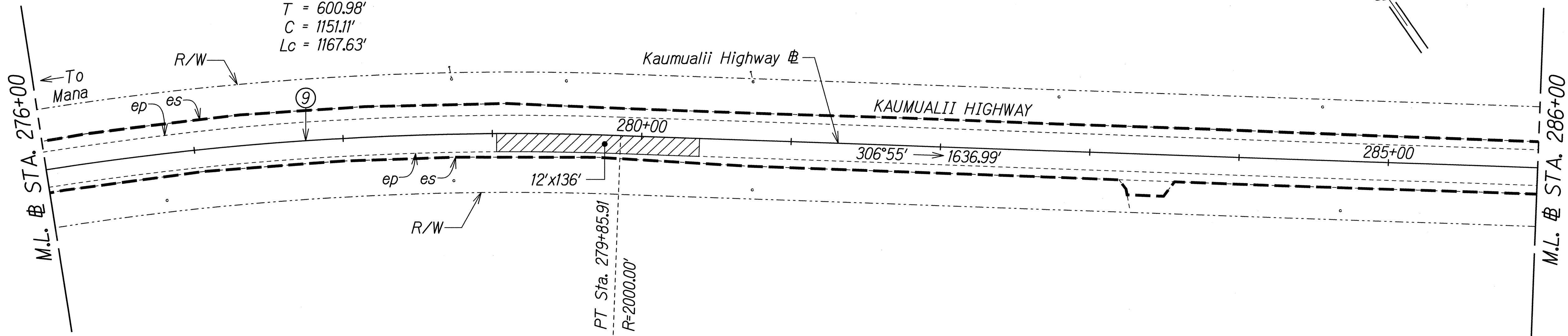
ROADWAY PLAN - 15

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
 PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD
 Federal Aid Project No. STP-050-1(040)
 Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(K040)	2014	25	51

⑨ CURVE DATA ⑨

$\Delta = 33^{\circ}27'00''$
 $R = 2000.00'$
 $T = 600.98'$
 $C = 1151.11'$
 $L_c = 1167.63'$



LEGEND:

- 1 1/2" Cold Plane
1 1/2" HMA Mix No. V
- Reconstruction of Weakened Pavement
(Moderate Distress)
1 1/2" HMA Mix No. V
6" HMAB
See Note 2 on Sheet R-1

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

T-16459A PPM/Kaumualii Hwy/Cadd/Sheets/Phase 2/Road-46.dgn

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[Signature] 04/30/16
SIGNATURE EXPIRATION DATE OF THE LICENSE

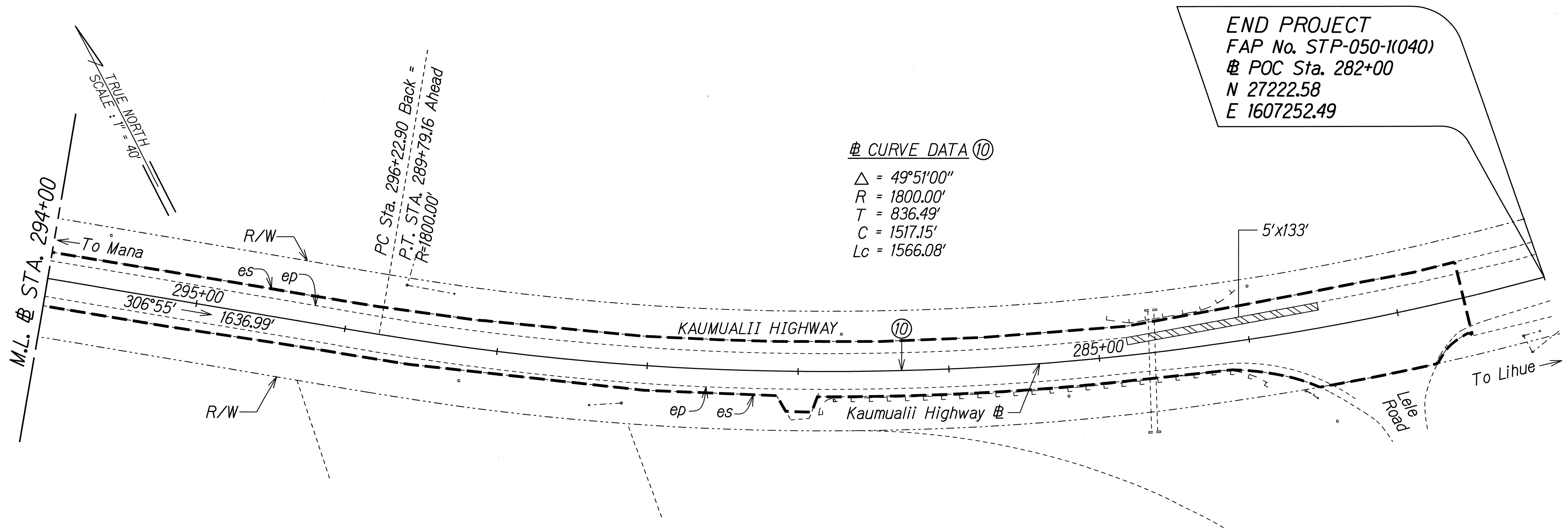
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 16

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD
Federal Aid Project No. STP-050-1(K040)
Scale: 1"=40' Date: June 2014

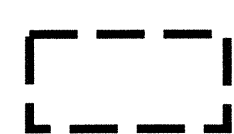
SHEET No. R-16 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	26	51

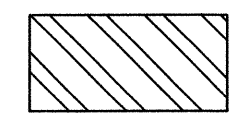


END PROJECT
FAP No. STP-050-1(040)
POC Sta. 282+00
N 27222.58
E 1607252.49

LEGEND:



1 1/2" Cold Plane
1 1/2" HMA Mix No. V



Reconstruction of Weakened Pavement
(Severe Distress)
1 1/2" HMA Mix No. V
2 1/2" HMA Mix No. IV
8" HMAB
See Note 1 on Sheet R-1

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

T:\16459A PM\Kaumualii Hwy\Road Sheets\Phase 2\Road-47.dgn

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

SIGNATURE: *Pamela K. Uyeda* EXPIRATION DATE OF THE LICENSE: 04/30/16

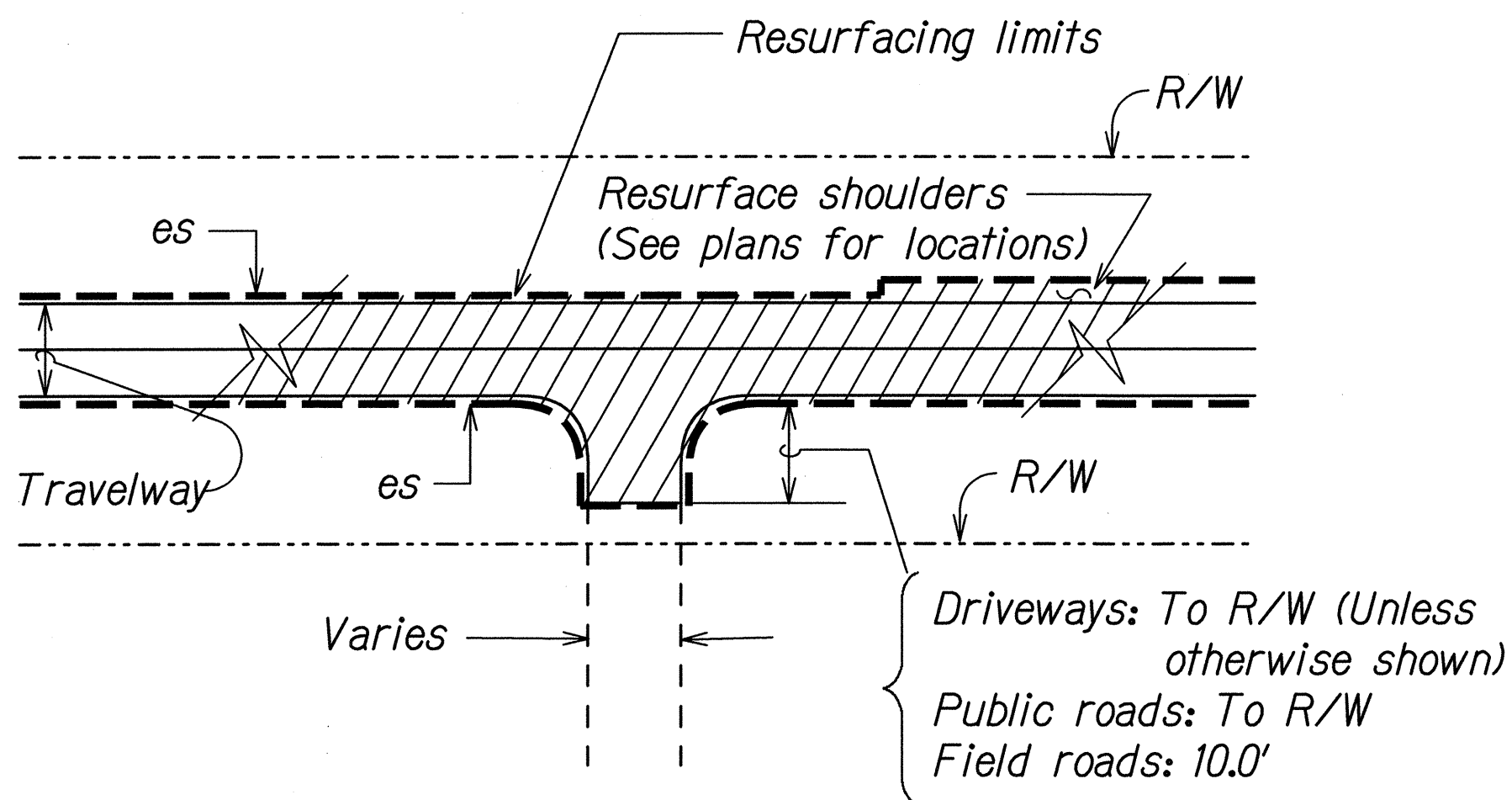
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 17

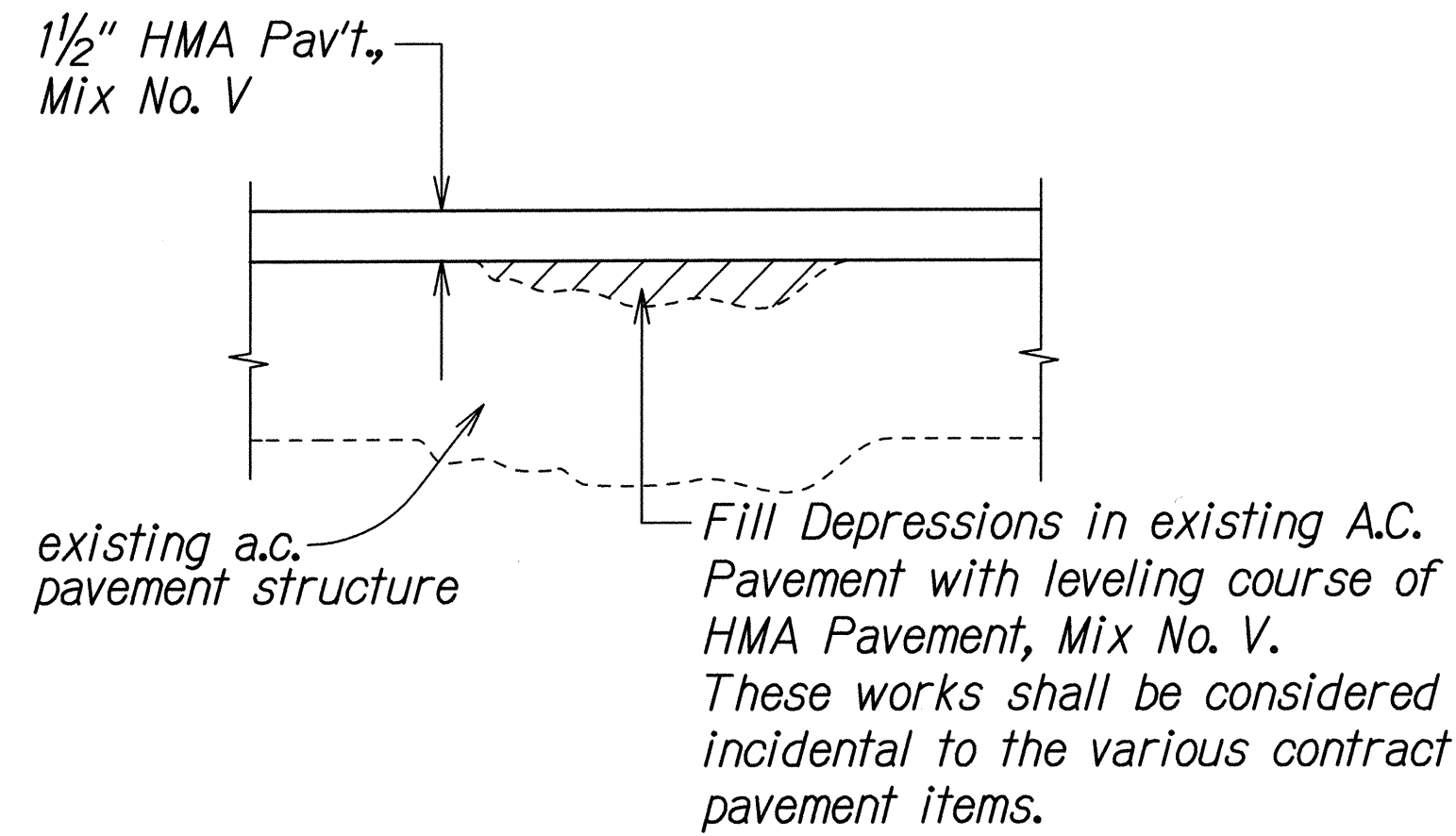
KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIWEA RIVER BRIDGE TO LELE ROAD

Federal Aid Project No. STP-050-1(040)
Scale: 1"=40' Date: June 2014

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(040)	2014	27	51

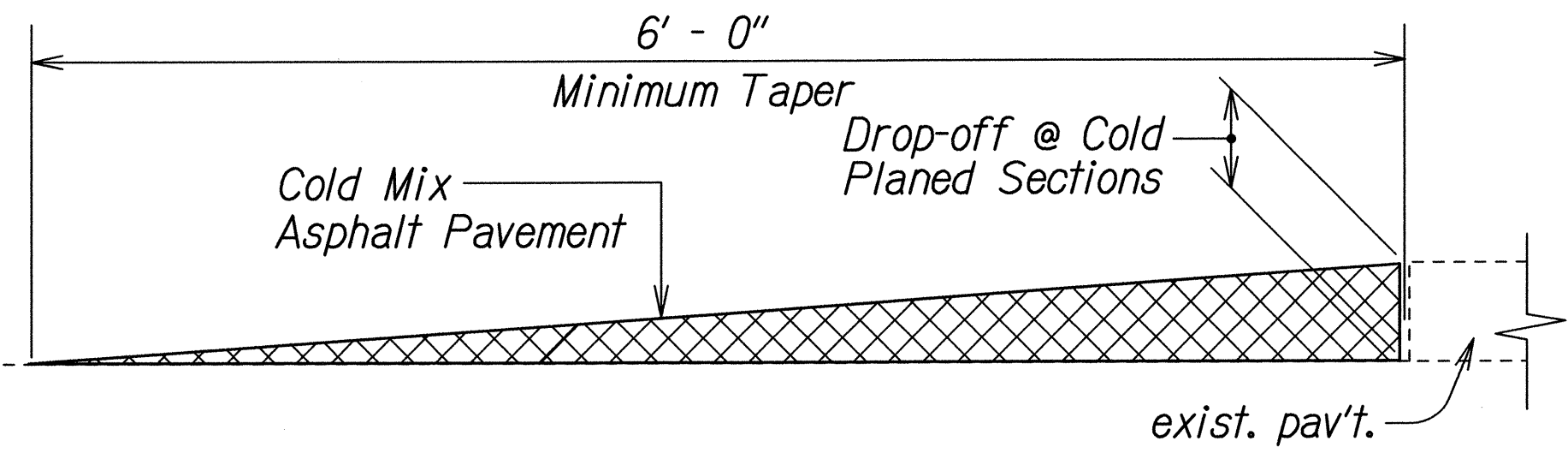


PLAN - TYPICAL RESURFACING LIMITS
Not To Scale

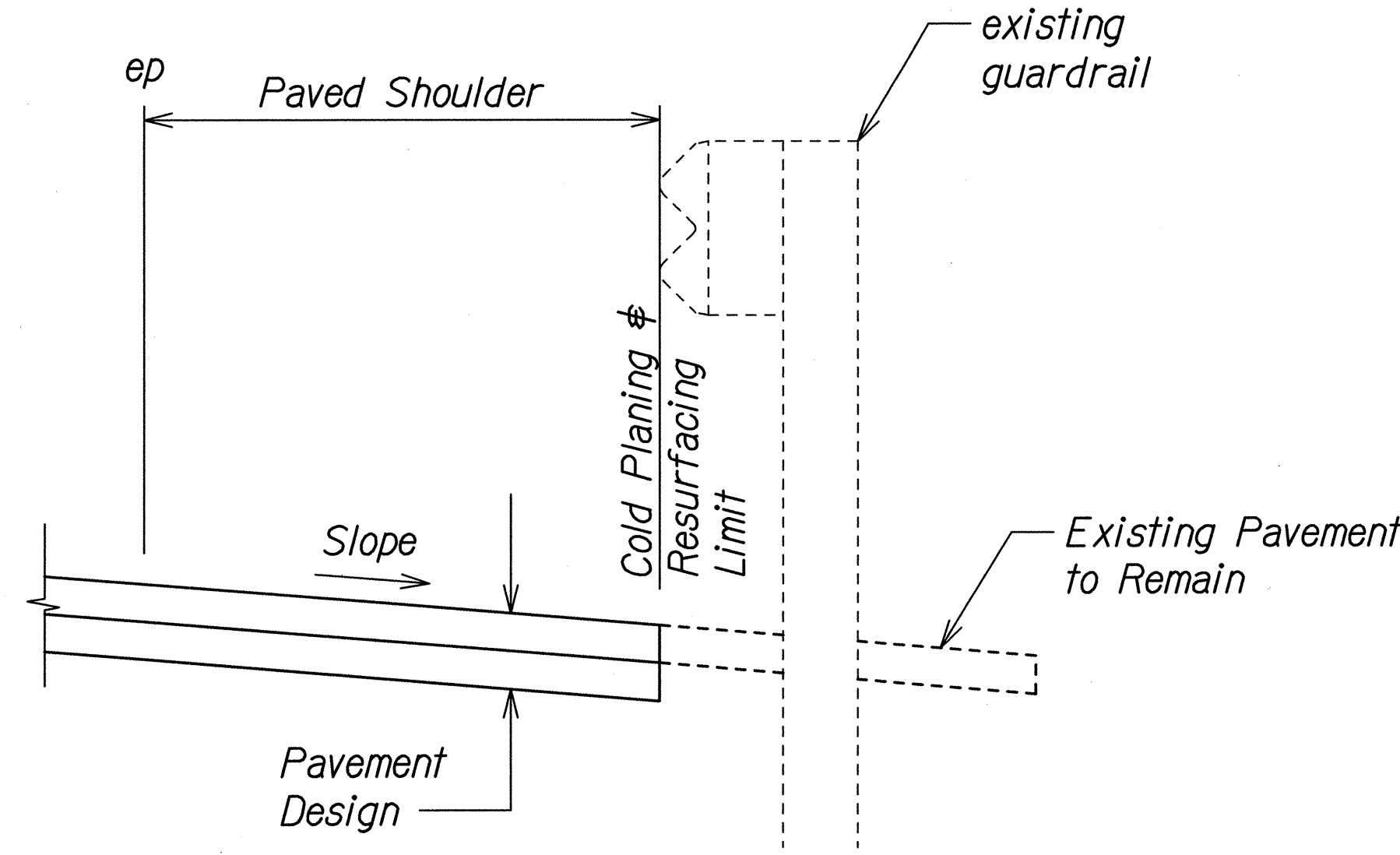


LEVELING COURSE DETAIL
Not To Scale

NOTES:
The Contractor shall construct temporary pavement taper to prevent sharp pavement drop-offs at all cold planed sections. Prior to final HMA Mix No. V placement, temporary pavement taper shall be removed. These works shall be considered incidental to the various contract pavement items.



TEMPORARY TRANSITION AT COLD PLANED AREAS
Not To Scale



TYPICAL COLD PLANE AND RESURFACING
AT GUARDRAIL DETAIL
Not To Scale

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

T-16469A PPM/Kaumualii PPM/Cadd/Sheets/Phase 2/Road-tdel.dgn

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: *[Signature]* EXPIRATION DATE OF THE LICENSE: 04/30/16

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY DETAILS

KAUMUALII HIGHWAY PAVEMENT PREVENTATIVE MAINTENANCE
PHASE II - WAIMEA RIVER BRIDGE TO LELE ROAD
Federal Aid Project No. STP-050-1(040)
Scale: None Date: June 2014