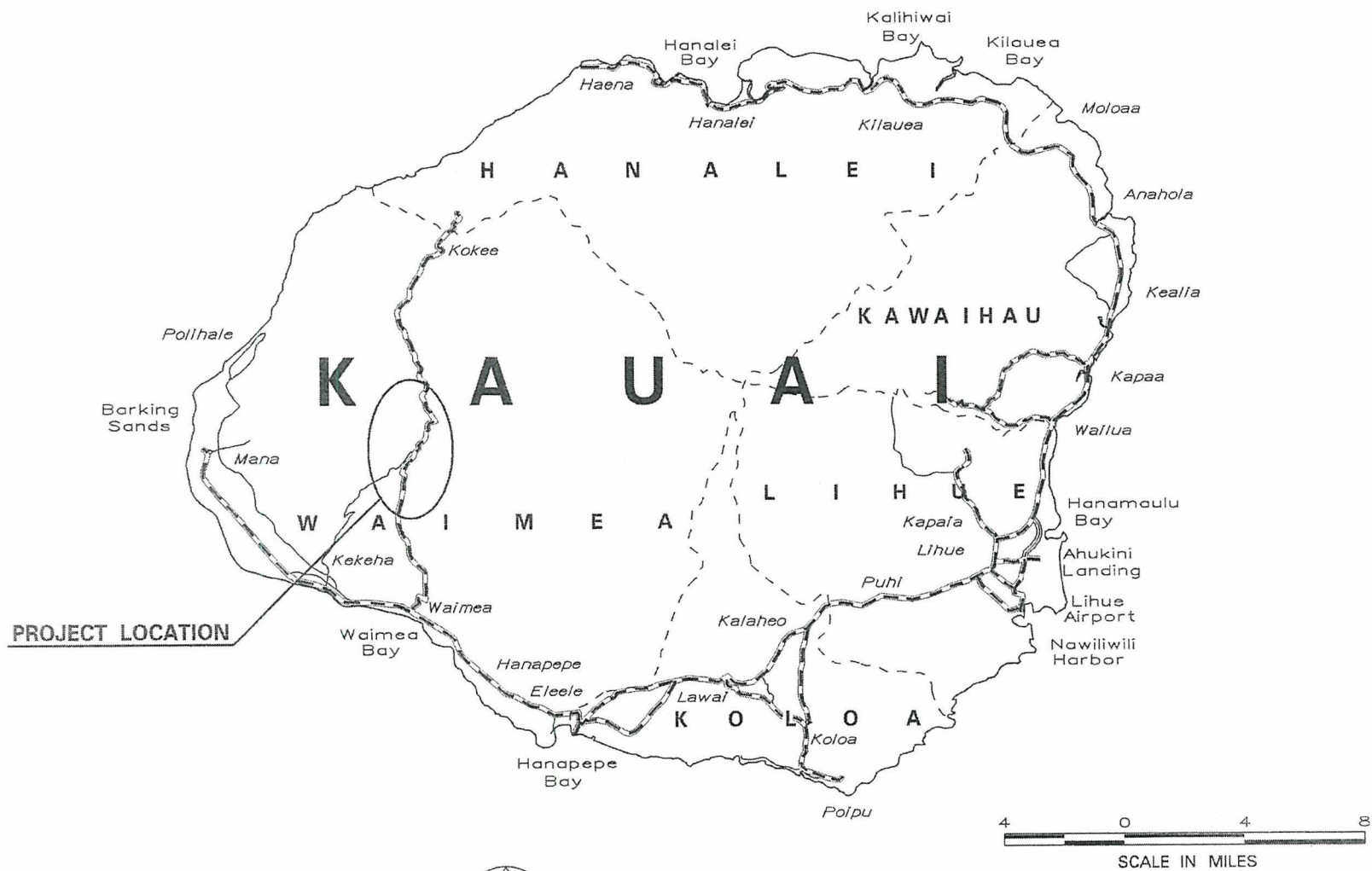


**Attachment A-1**  
**Location, Outfall and BMP Maps**



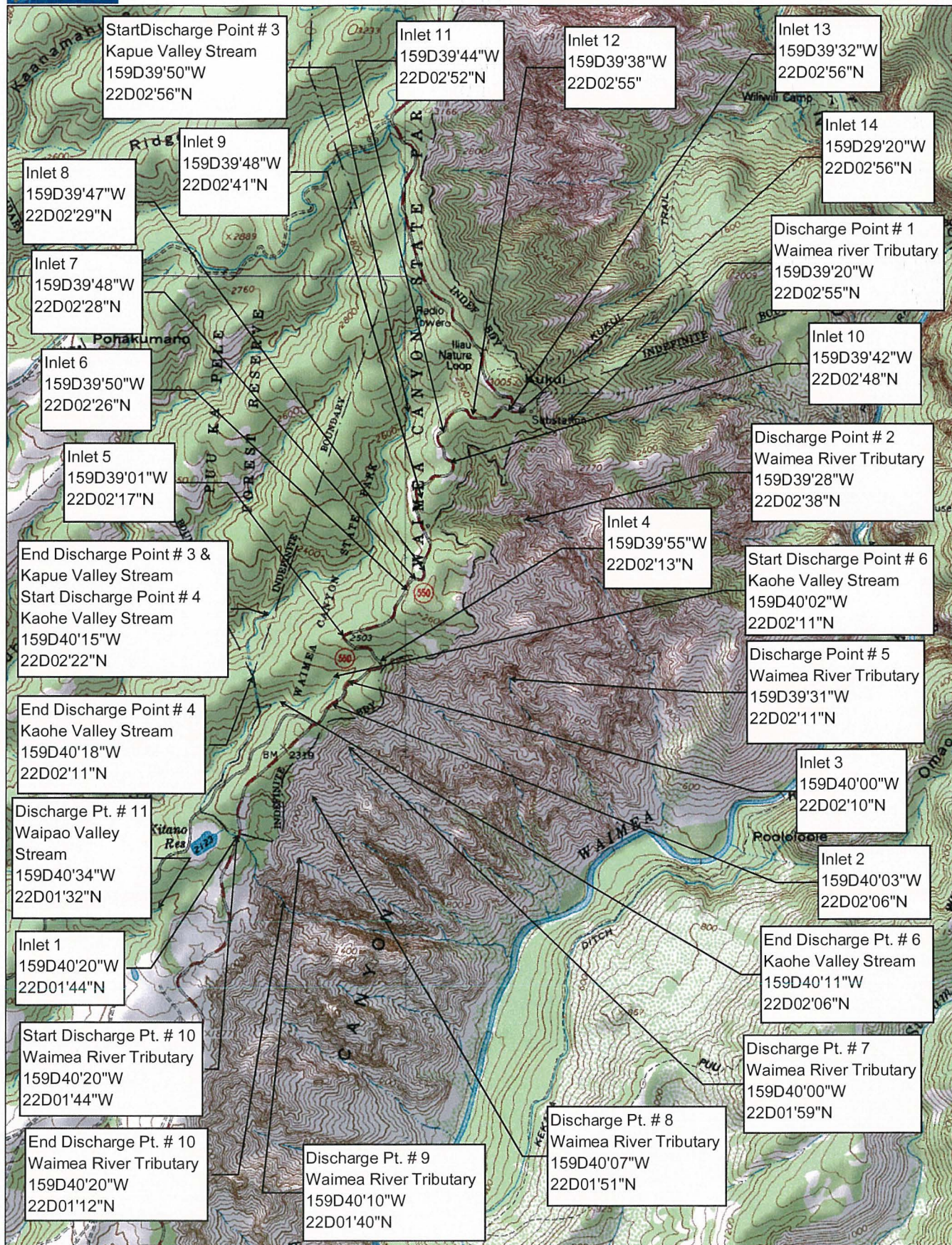
VICINITY MAP



# OUTFALL MAP

DELORME

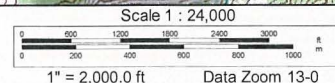
Topo North America™ 9



Data use subject to license.

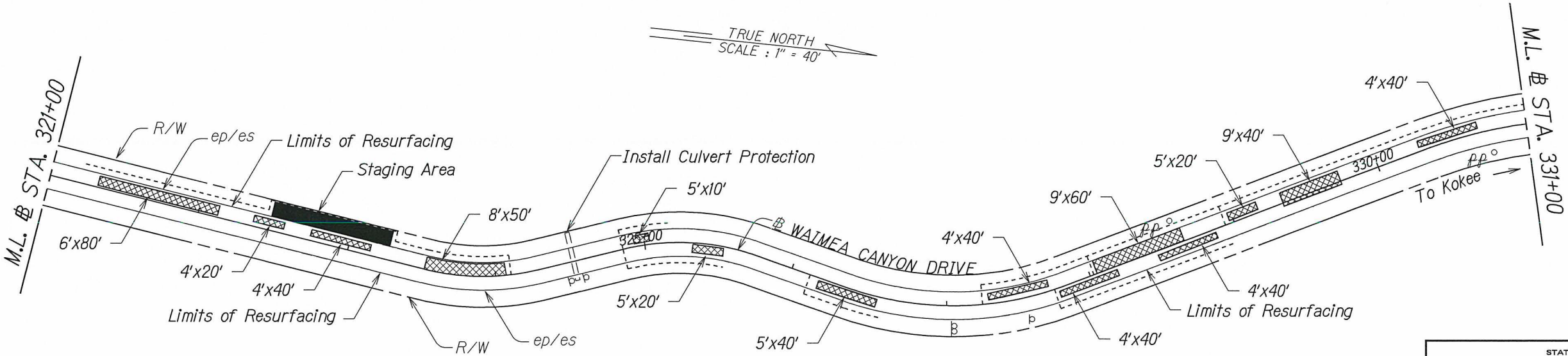
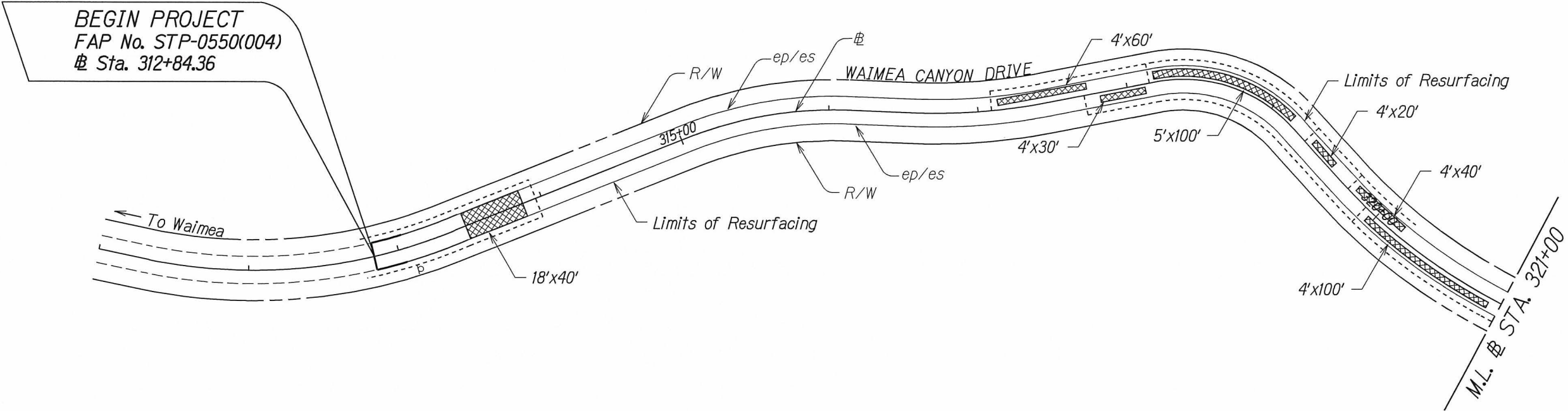
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FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	1	7



LEGEND:

- Pavement Reconstruction - [Hatched Box]
- Sediment Control Devices - [Dashed Line]

- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

Fed-Aid Proj. No. STP-0550(004)

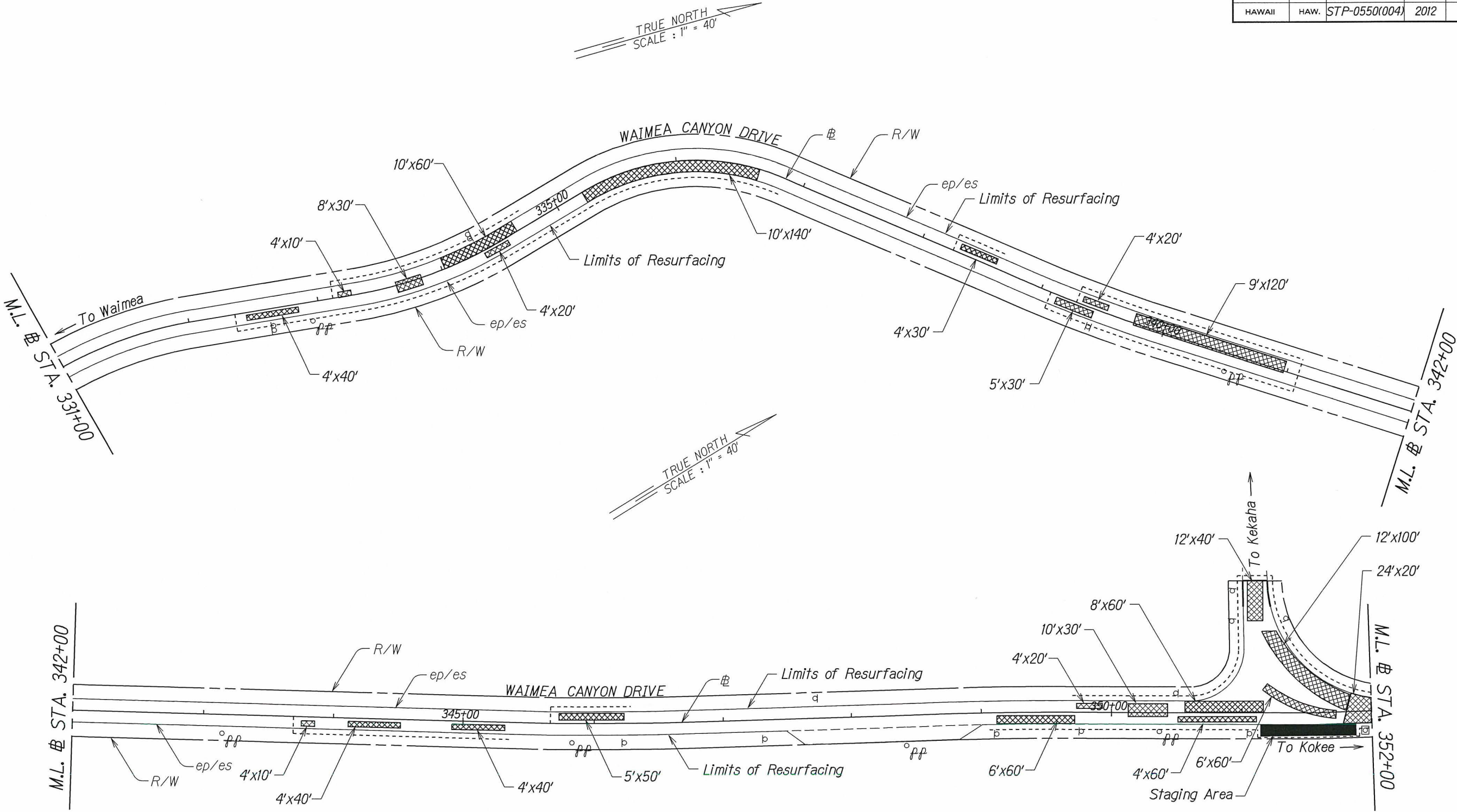
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SHEET No. 1 OF 7 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	06/11
Field	DESIGNED BY	
2006/06/01	QUANTITIES BY	
	CHECKED BY	



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	2	7



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	10/2/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
NO.		

LEGEND:

Pavement Reconstruction — 

Sediment Control Devices — 

- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

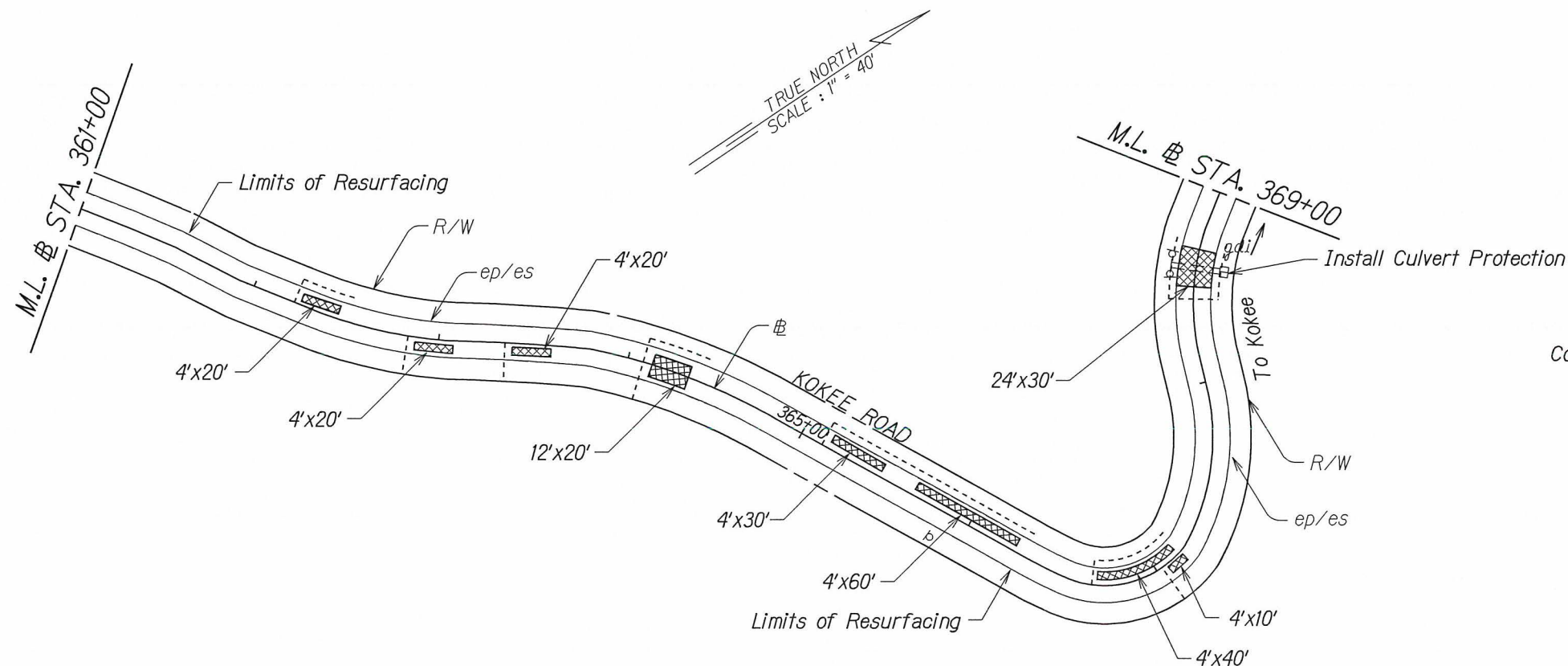
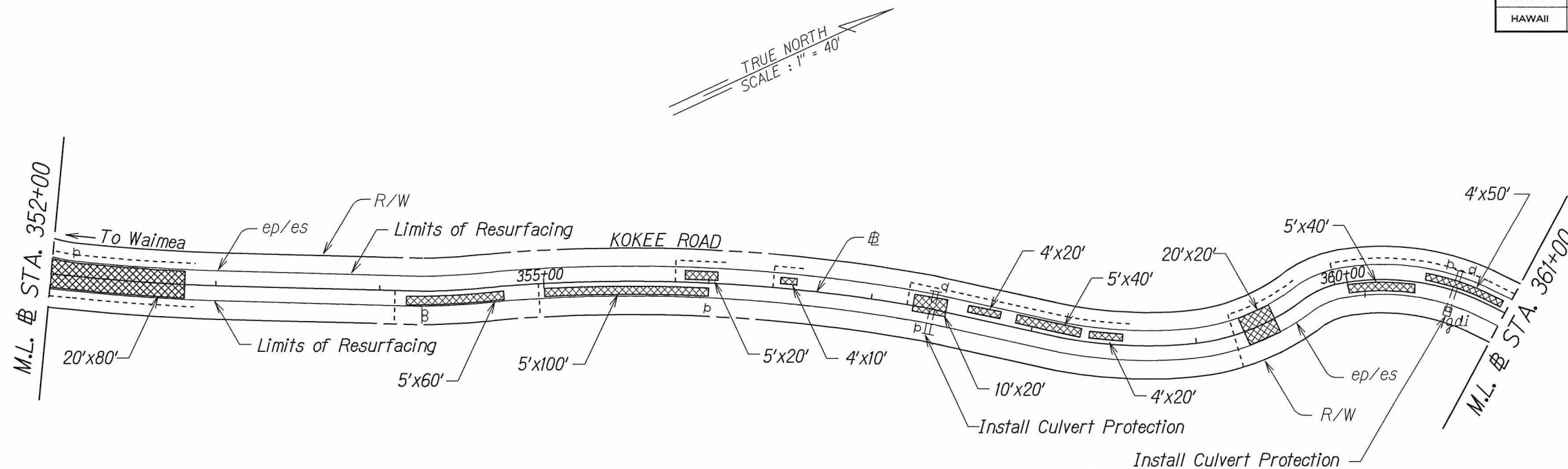
Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40'

Date: June 2012

SHEET No. 2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	3	7



- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

LEGEND:

- Pavement Reconstruction — 
- Sediment Control Devices — 

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	10/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
NO.		

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

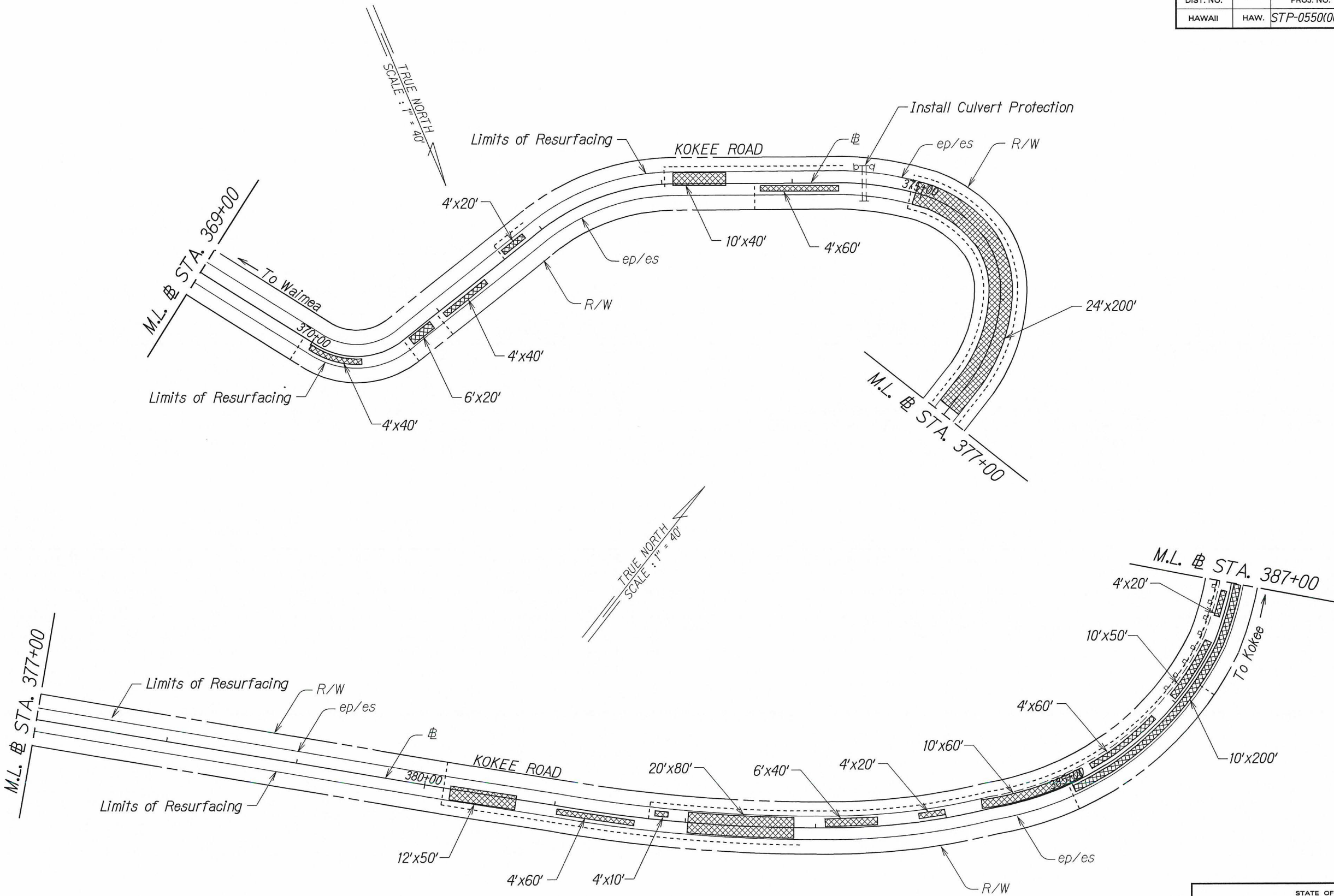
Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40'      Date: June 2012

SHEET No. 3 OF 7 SHEETS



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	4	7



LEGEND:

Pavement Reconstruction — 

Sediment Control Devices — - - - - -

- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

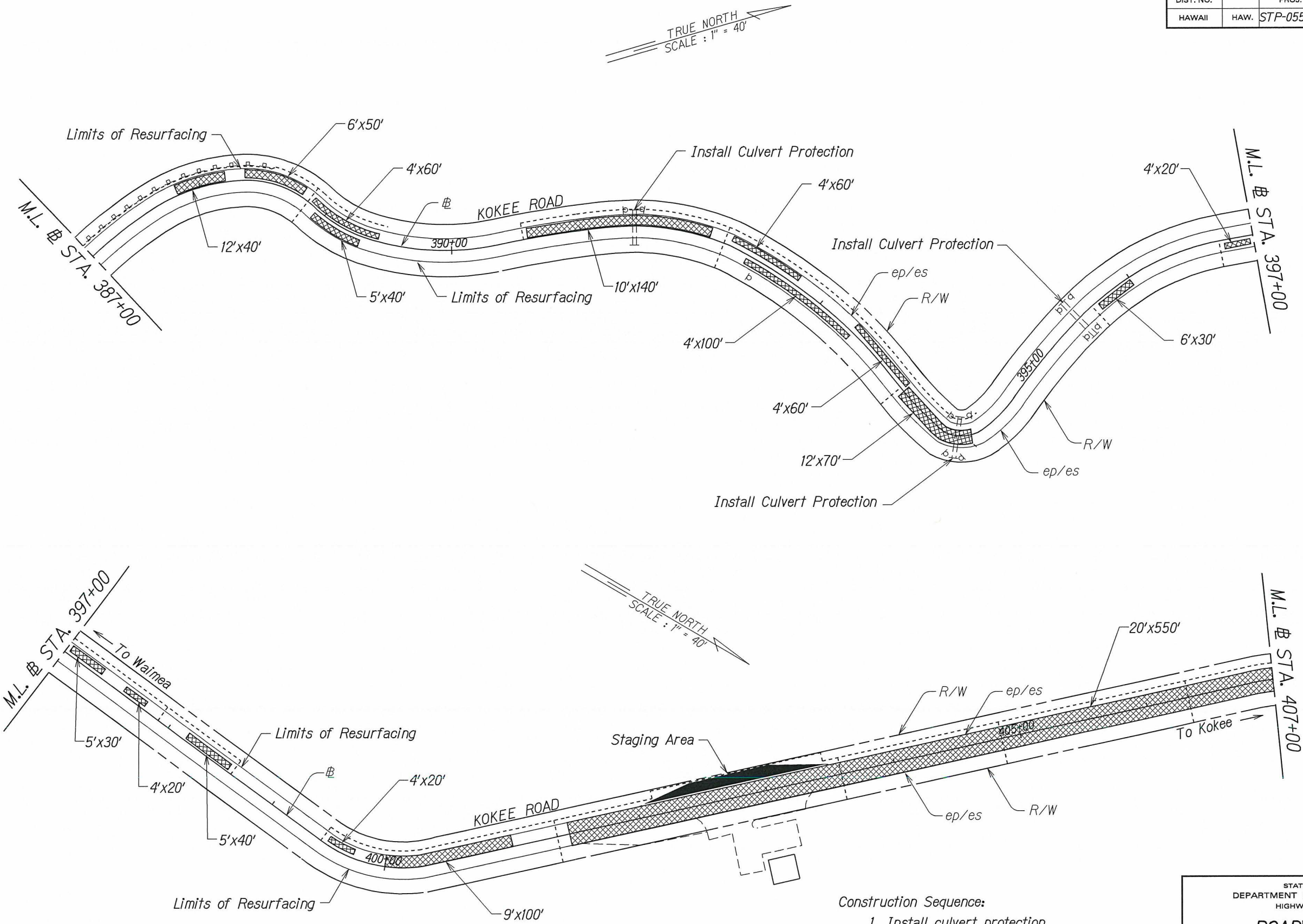
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ROADWAY PLAN  
WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING  
Mile Post 6.0 to Mile Post 8.5  
Fed-Aid Proj. No. STP-0550(004)  
Scale: 1" = 40'  
Date: June 2012

SHEET No. 4 OF 7 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	09/11
DRAWN BY	
TRACED BY	
NOTED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
2010/04/09	

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	5	7



LEGEND:

- Pavement Reconstruction — 
- Sediment Control Devices — 

- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ROADWAY PLAN

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

Fed-Aid Proj. No. STP-0550(004)

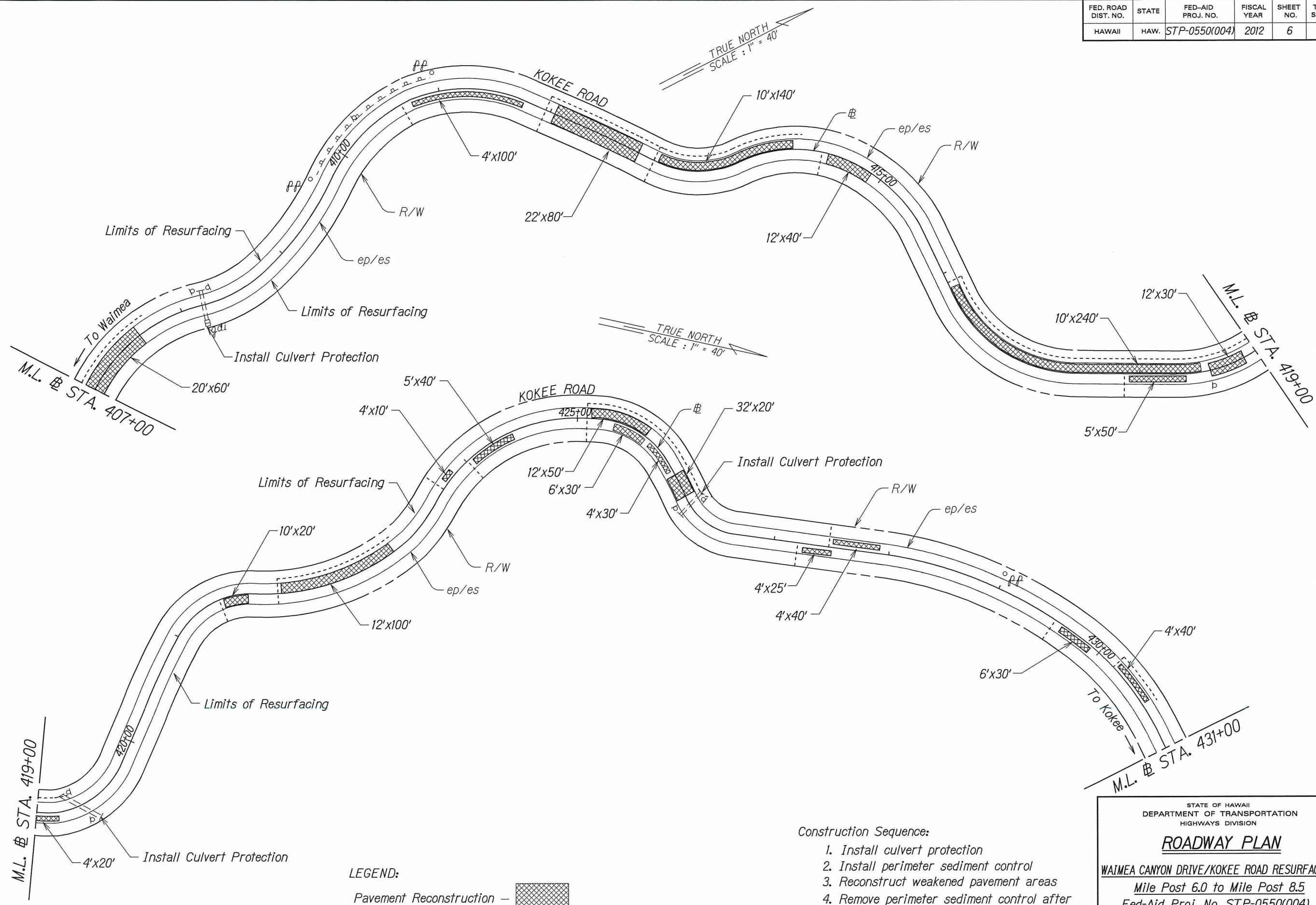
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SHEET No. 5 OF 7 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	12/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
NOTES		
2/26/05		



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	6	7



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	02/11
DESIGNED BY		
CHECKED BY		

- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ROADWAY PLAN

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

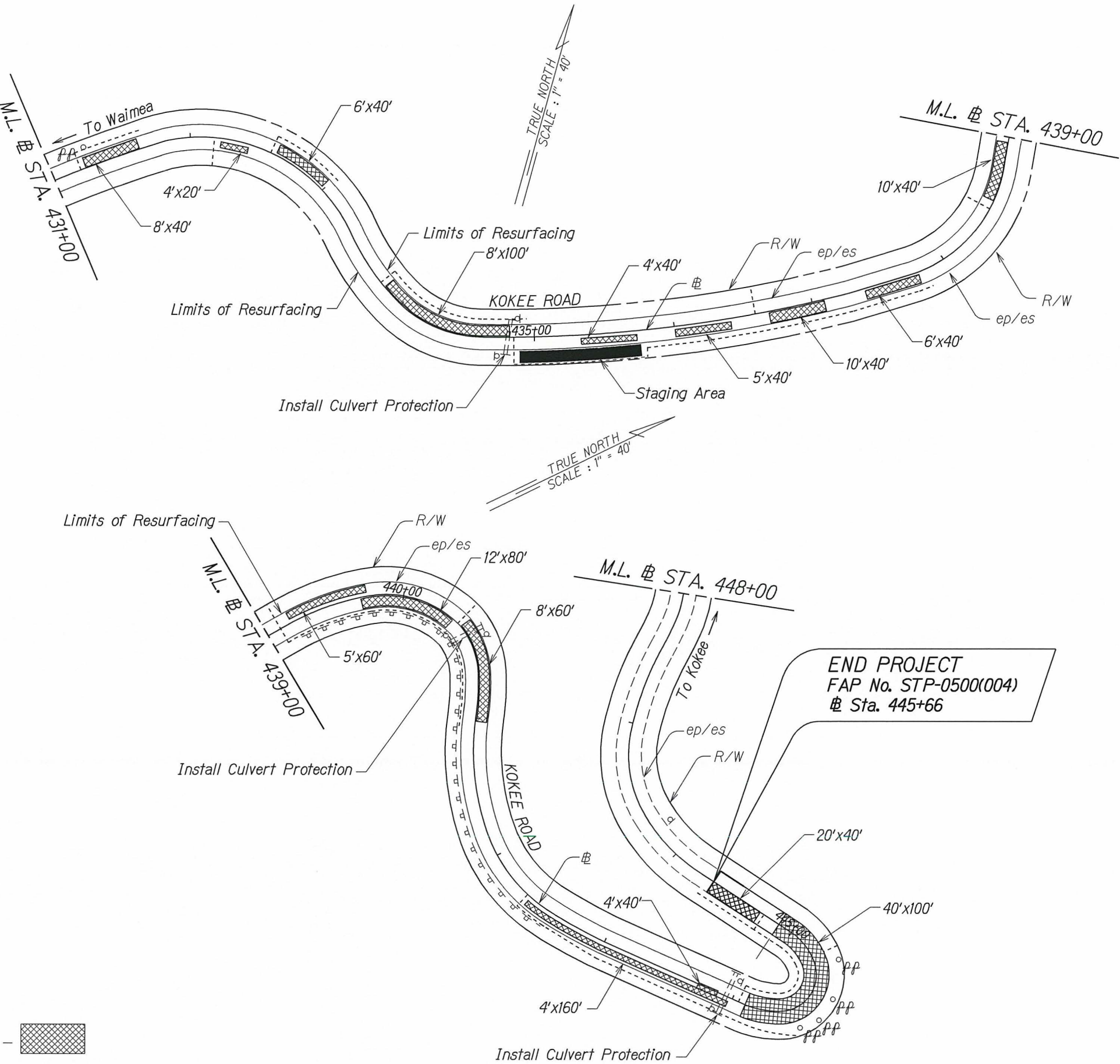
Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40'

Date: June 2012

SHEET No. 6 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	7	7



LEGEND:

Pavement Reconstruction — 

Sediment Control Devices — - - - - -

- Construction Sequence:
1. Install culvert protection
  2. Install perimeter sediment control
  3. Reconstruct weakened pavement areas
  4. Remove perimeter sediment control after reconstructed areas are established
  5. Remove all BMP's

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

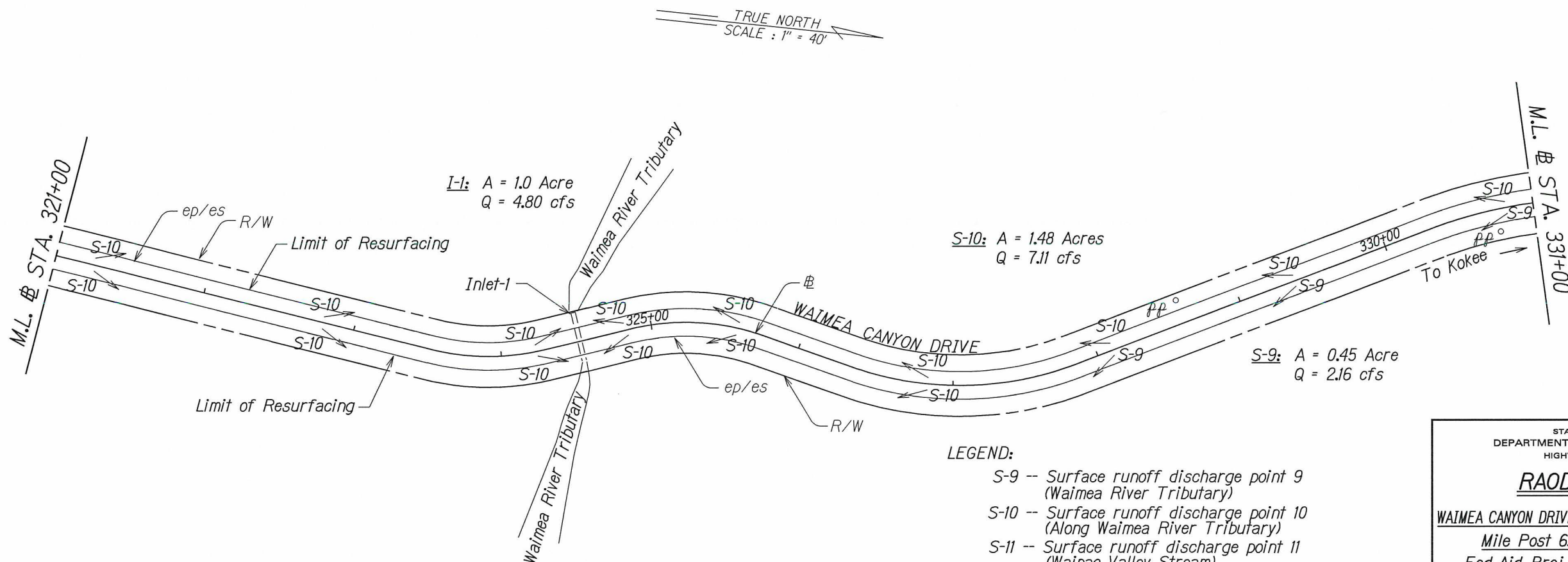
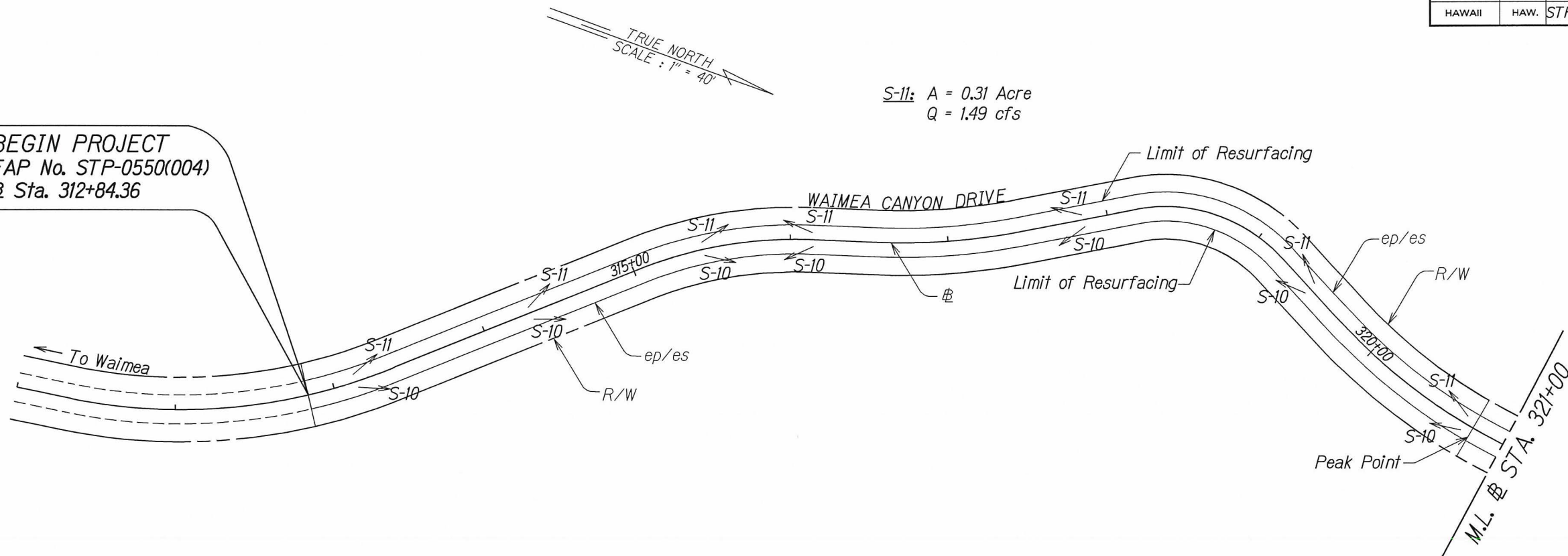
ROADWAY PLAN  
WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING  
Mile Post 6.0 to Mile Post 8.5  
Fed-Aid Proj. No. STP-0550(004)  
Scale: 1" = 40'      Date: June 2012  
SHEET No. 7 OF 7 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	12/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	1	7

BEGIN PROJECT  
FAP No. STP-0550(004)  
# Sta. 312+84.36



- LEGEND:
- S-9 -- Surface runoff discharge point 9 (Waimea River Tributary)
  - S-10 -- Surface runoff discharge point 10 (Along Waimea River Tributary)
  - S-11 -- Surface runoff discharge point 11 (Waipao Valley Stream)
  - I-1 -- Surface runoff to Inlet-1 discharge to Waimea River Tributary

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**RAODWAY PLAN**

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

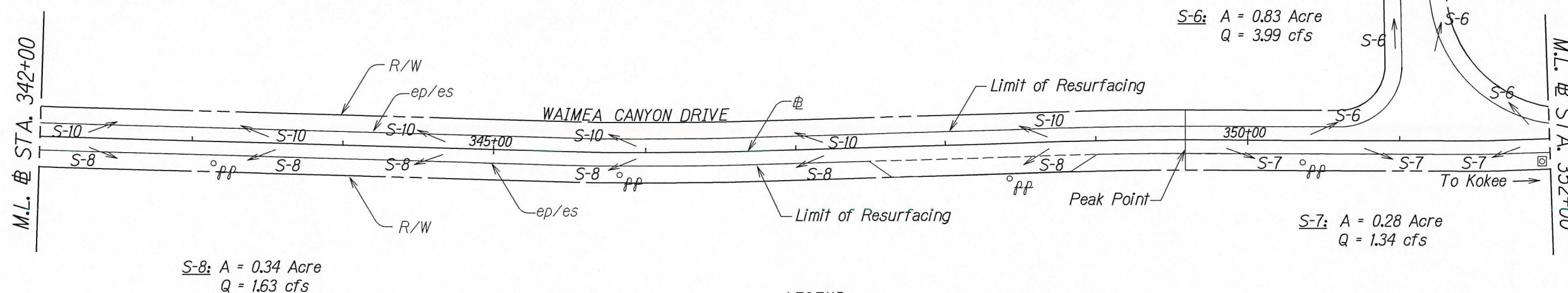
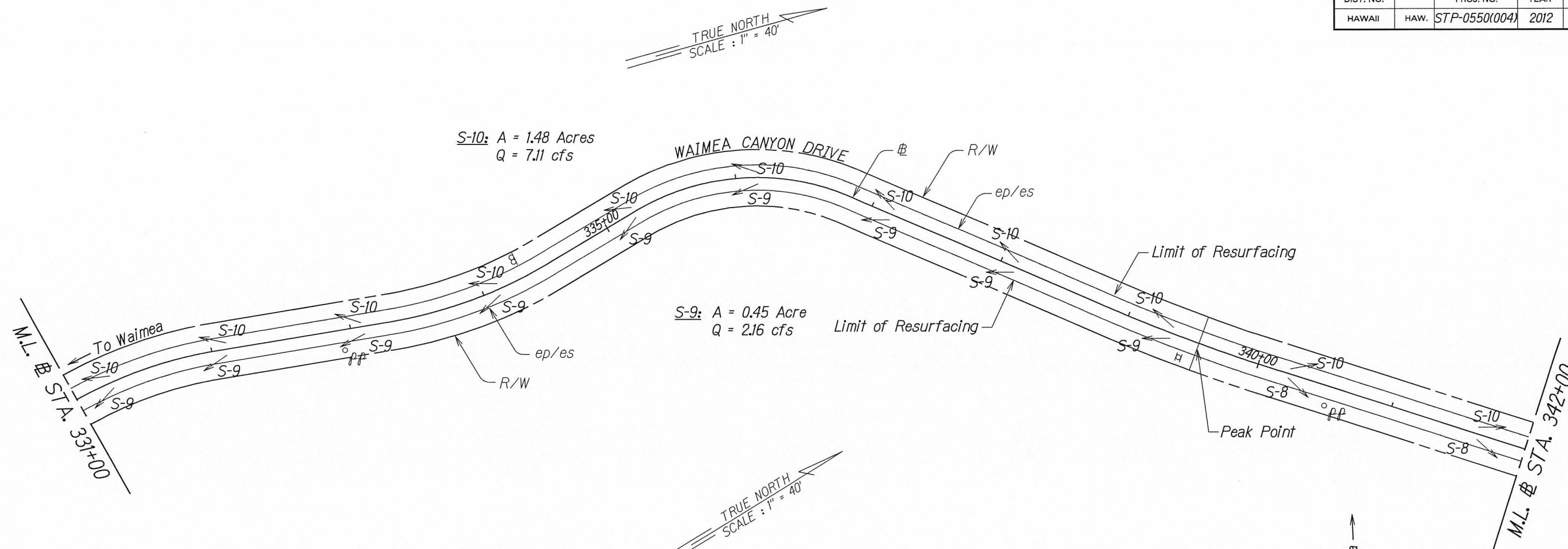
Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40' Date: June 2012

SHEET No. 1 OF 7 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/2/11
NOTE BOOK	DESIGNED BY	
NOTE BOOK	CHECKED BY	
NOTE BOOK	APPROVED BY	

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	2	7



**LEGEND:**

- S-6 -- Surface Runoff to discharge point # 6 (Along Kaohe Valley Stream)
- S-7 -- Surface Runoff to discharge point # 7 (Waimea River Tributary)
- S-8 -- Surface Runoff to discharge point # 8 (Waimea River Tributary)
- S-9 -- Surface Runoff to discharge point # 9 (Waimea River Tributary)
- S-10 -- Surface Runoff to discharge point # 10 (Along Waimea River Tributary)

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

**WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING**

Mile Post 6.0 to Mile Post 8.5  
Fed-Aid Proj. No. STP-0550(004)

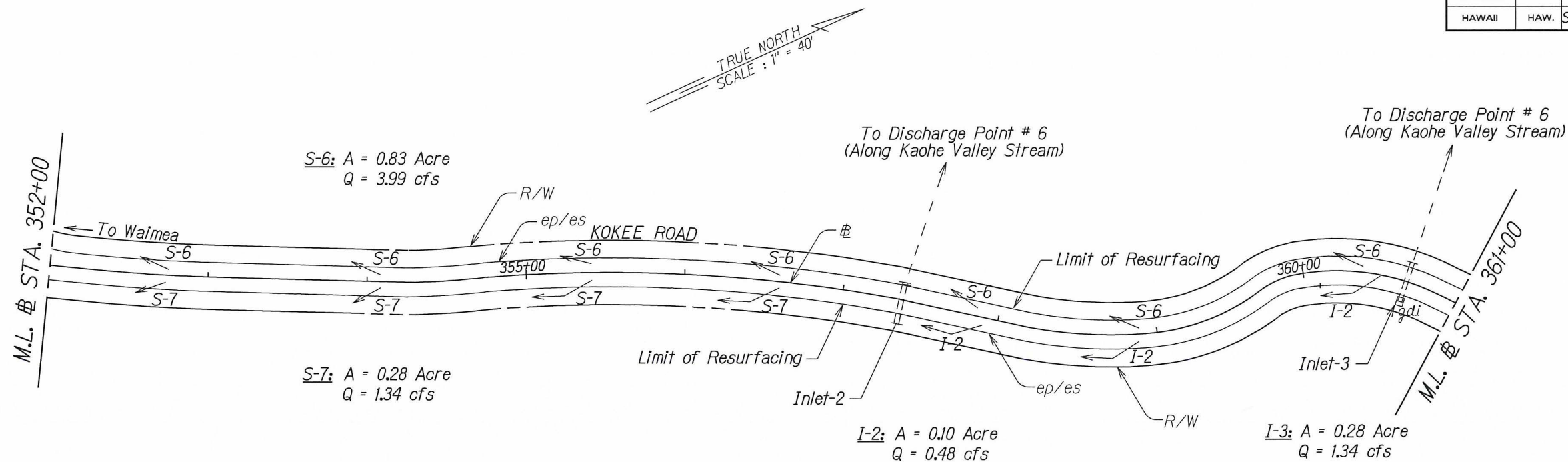
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SHEET No. 2 OF 7 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/11
DESIGNED BY	TRACED BY	
QUANTITIES BY	CHECKED BY	
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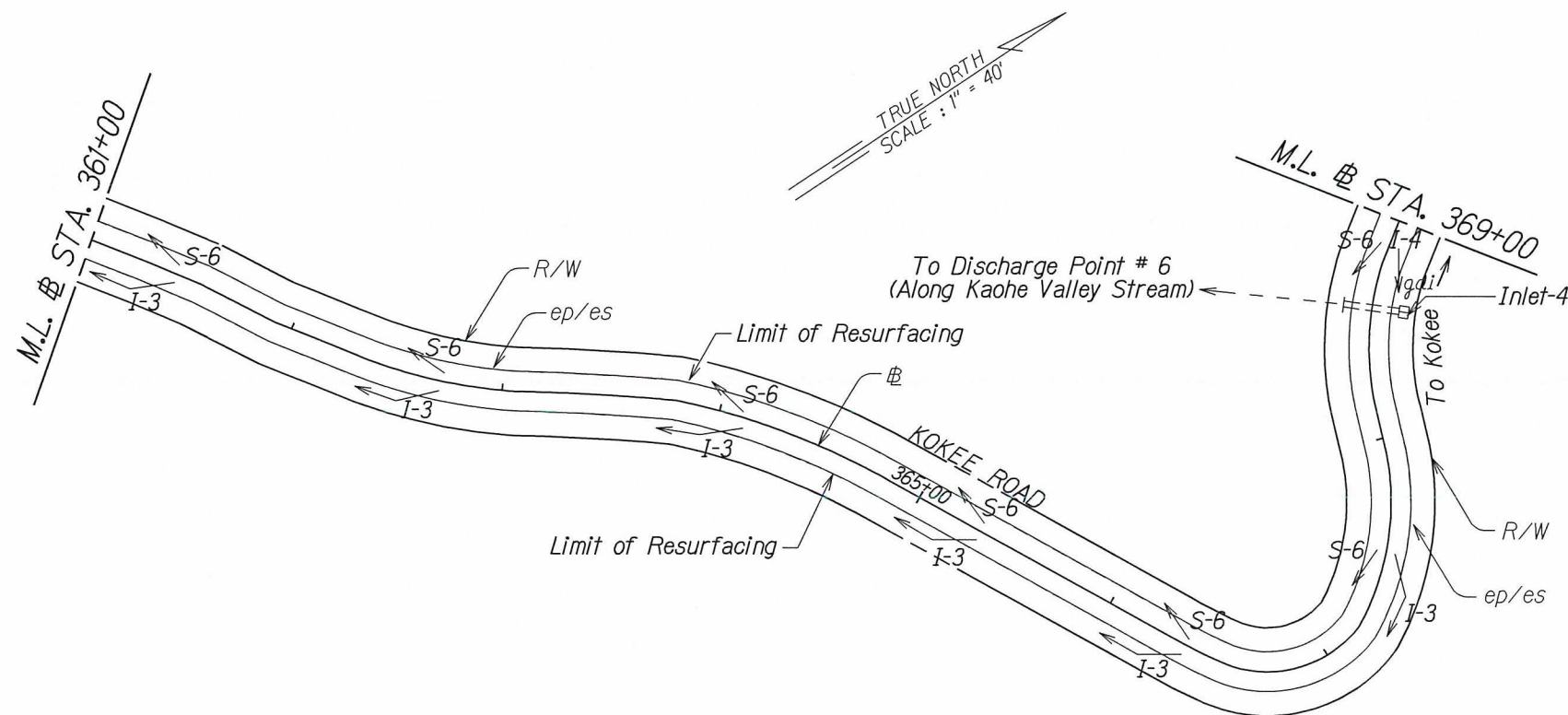


FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	3	7



#### LEGEND:

- S-6 -- Surface runoff to discharge point # 6  
(Along Kaohe Valley Stream)
- S-7 -- Surface runoff to discharge point # 7  
(Waimea River Tributary)
- I-2 -- Surface runoff to Inlet-2  
discharge to Kaohe Valley Stream
- I-3 -- Surface runoff to Inlet-3  
discharge to Kaohe Valley Stream
- I-4 -- Surface runoff to Inlet-24  
discharge to Kaohe Valley Stream



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY		09/11
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

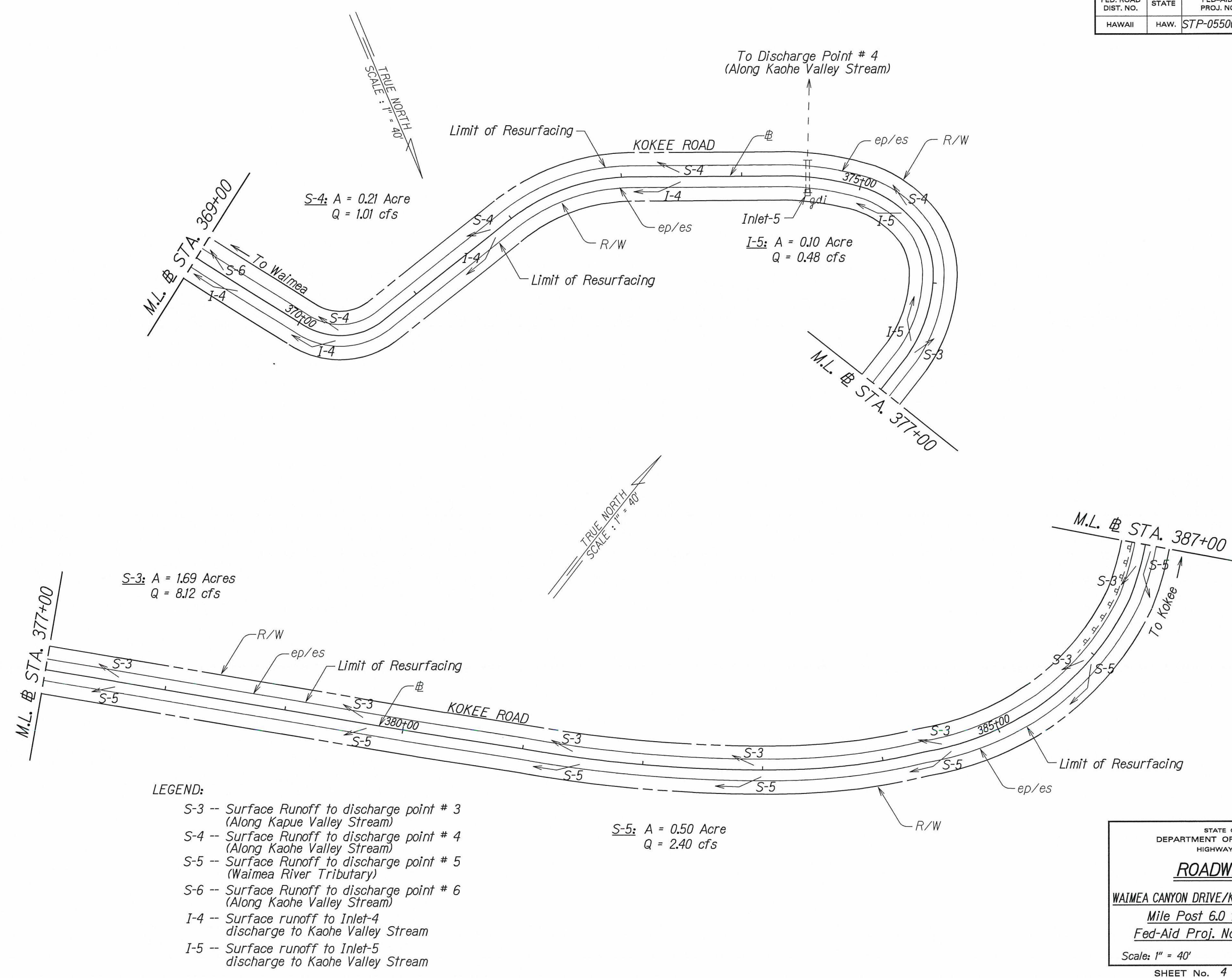
Mile Post 6.0 to Mile Post 8.5

Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40'      Date: June 2012

SHEET No. 3 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	4	7

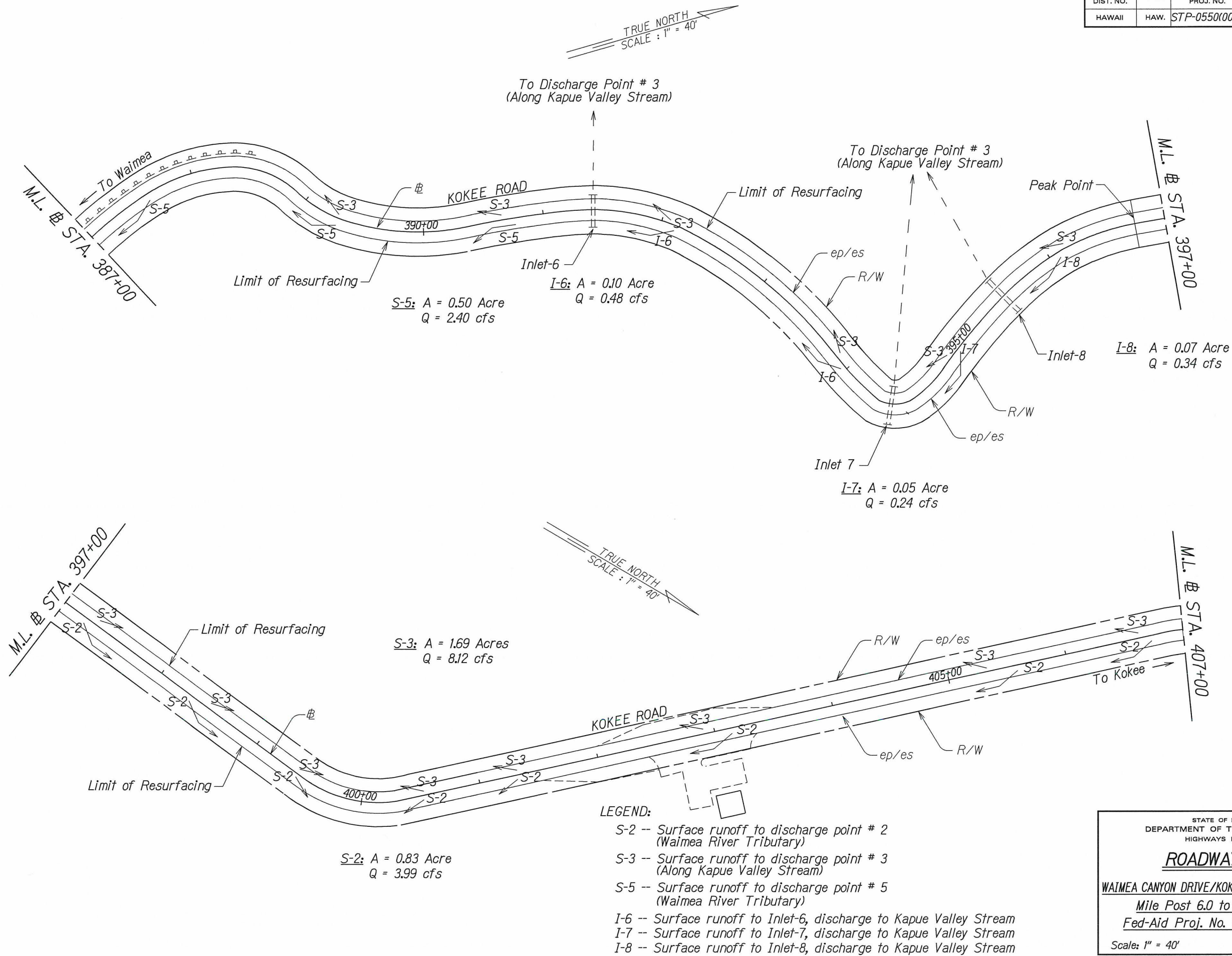


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	10/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
NOTED		

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**ROADWAY PLAN**  
**WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING**  
Mile Post 6.0 to Mile Post 8.5  
Fed-Aid Proj. No. STP-0550(004)  
Scale: 1" = 40'      Date: June 2012  
SHEET No. 4 OF 7 SHEETS



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	5	7



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/2/11
DESIGNED BY	CHECKED BY	
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REVISIONS		
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2		
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

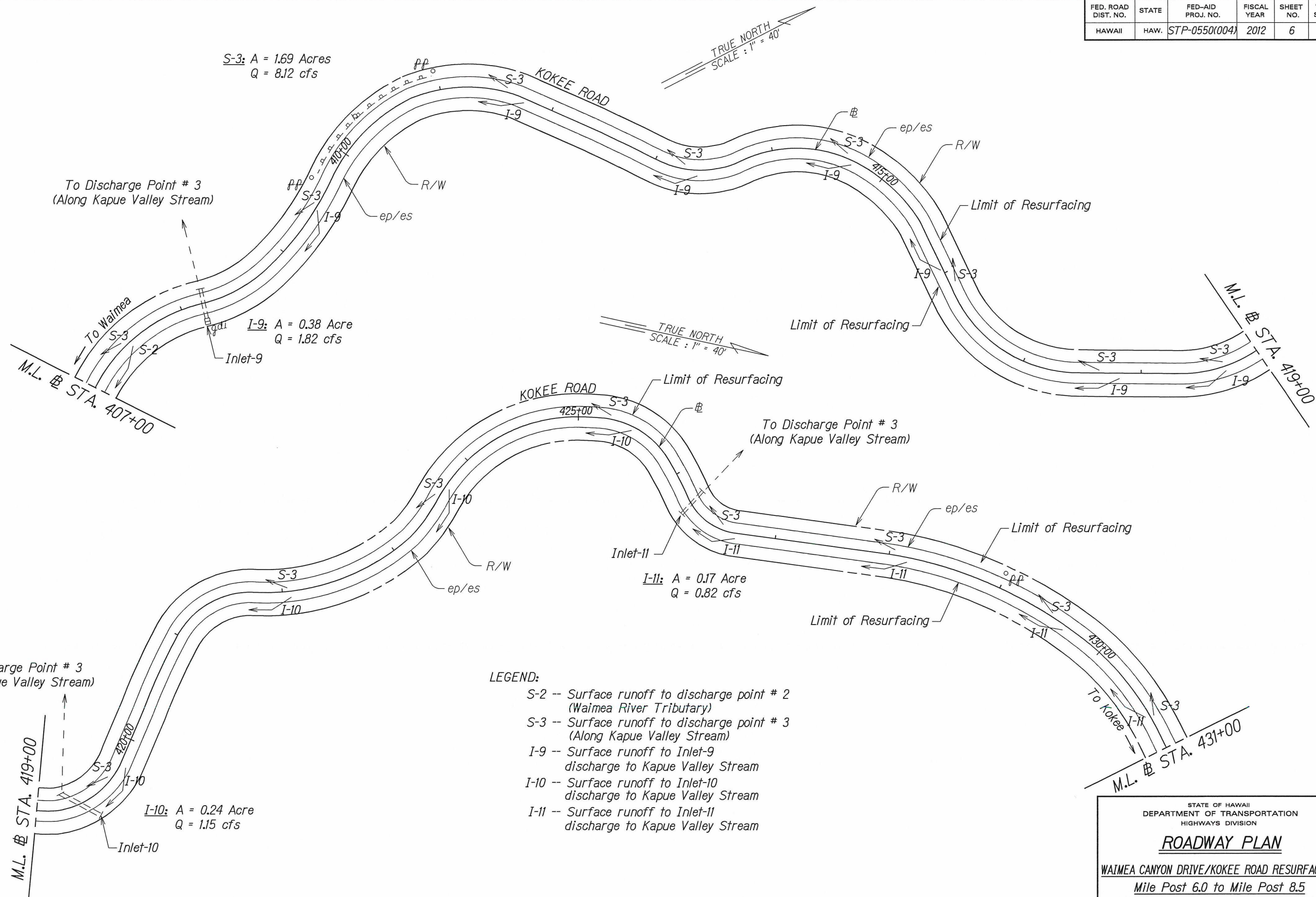
Mile Post 6.0 to Mile Post 8.5

Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40' Date: June 2012

SHEET No. 5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	6	7



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/2/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

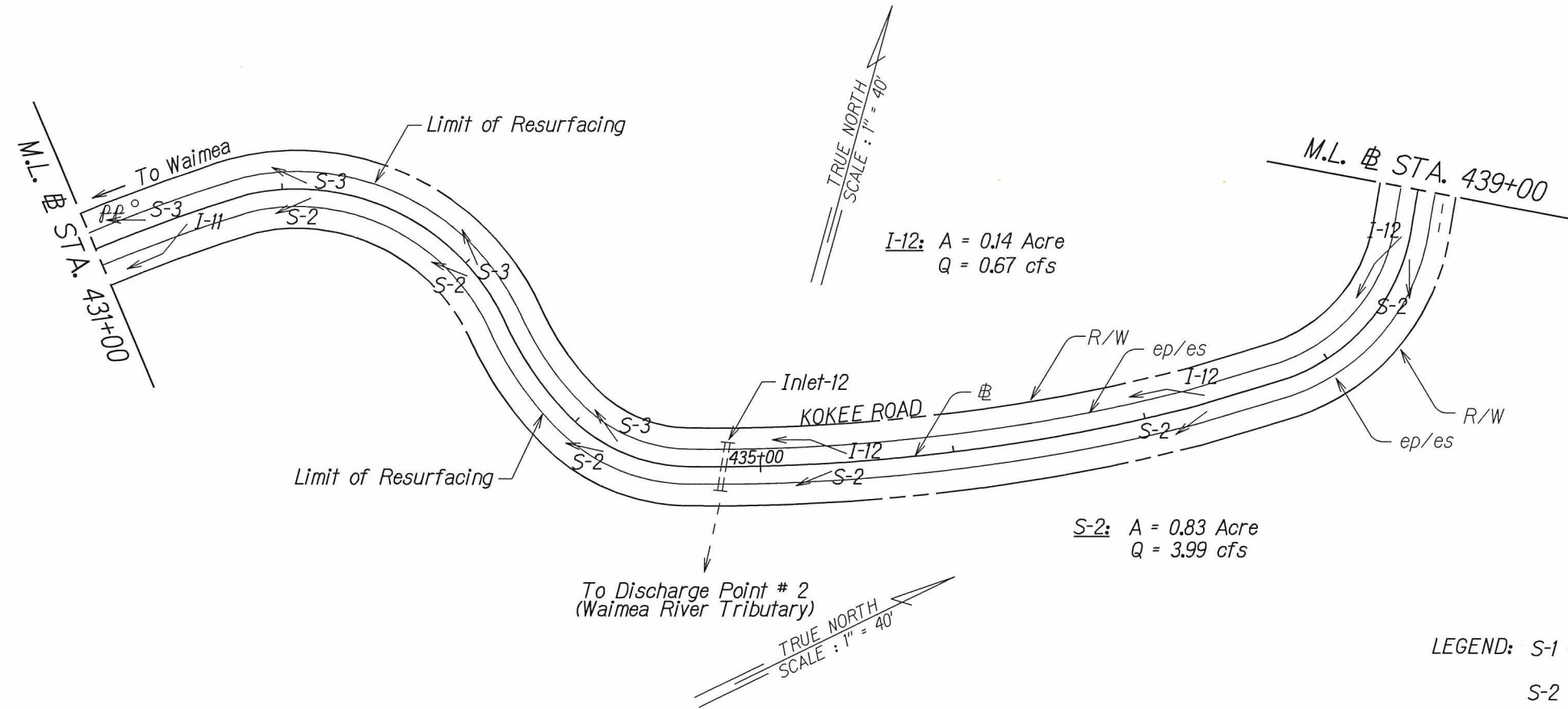
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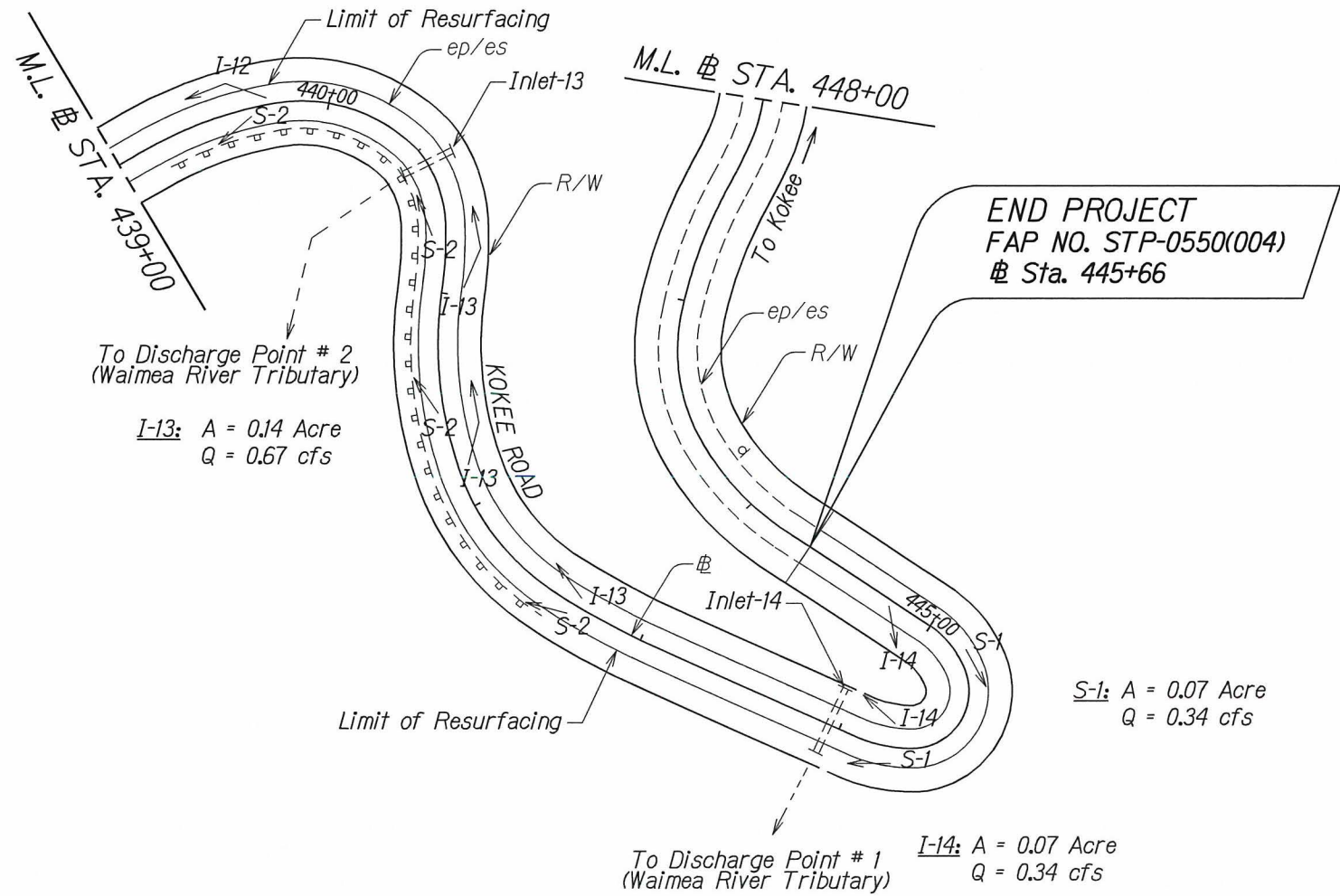
SHEET No. 6 OF 7 SHEETS



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0550(004)	2012	7	7



- LEGEND:
- S-1 -- Surface runoff to discharge point # 1 (Waimea River Tributary)
  - S-2 -- Surface runoff to discharge point # 2 (Waimea River Tributary)
  - S-3 -- Surface runoff to discharge point # 3 (Along Kapue Valley Stream)
  - I-11 -- Surface runoff to Inlet-11 discharge to Kapue Valley Stream
  - I-12 -- Surface runoff to Inlet-12 discharge to Waimea River Tributary
  - I-13 -- Surface runoff to Inlet-13 discharge to Waimea River Tributary
  - I-14 -- Surface runoff to Inlet-14 discharge to Waimea River Tributary



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	12/11
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ROADWAY PLAN

WAIMEA CANYON DRIVE/KOKEE ROAD RESURFACING

Mile Post 6.0 to Mile Post 8.5

Fed-Aid Proj. No. STP-0550(004)

Scale: 1" = 40'      Date: June 2012

SHEET No. 7 OF 7 SHEETS