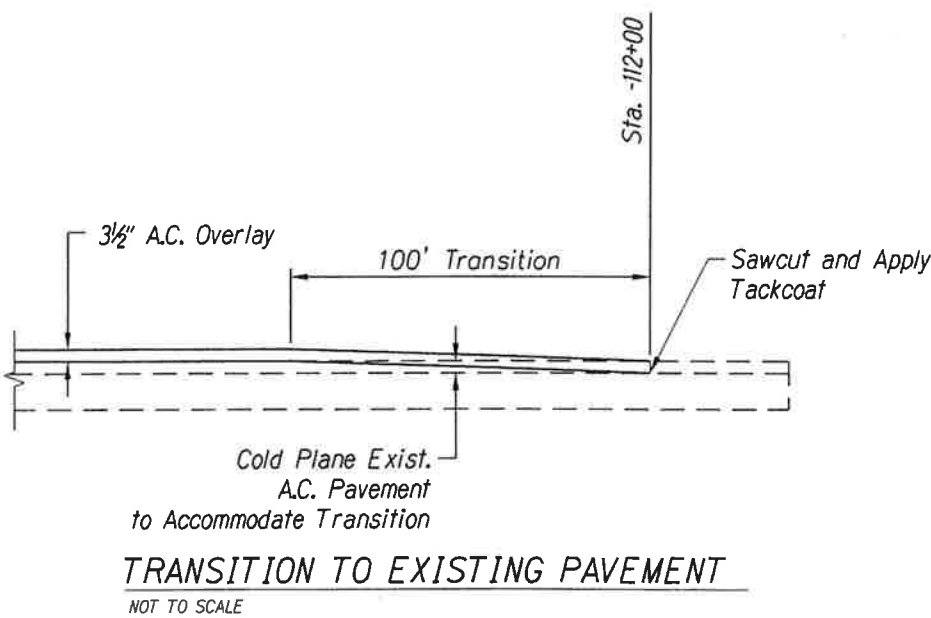
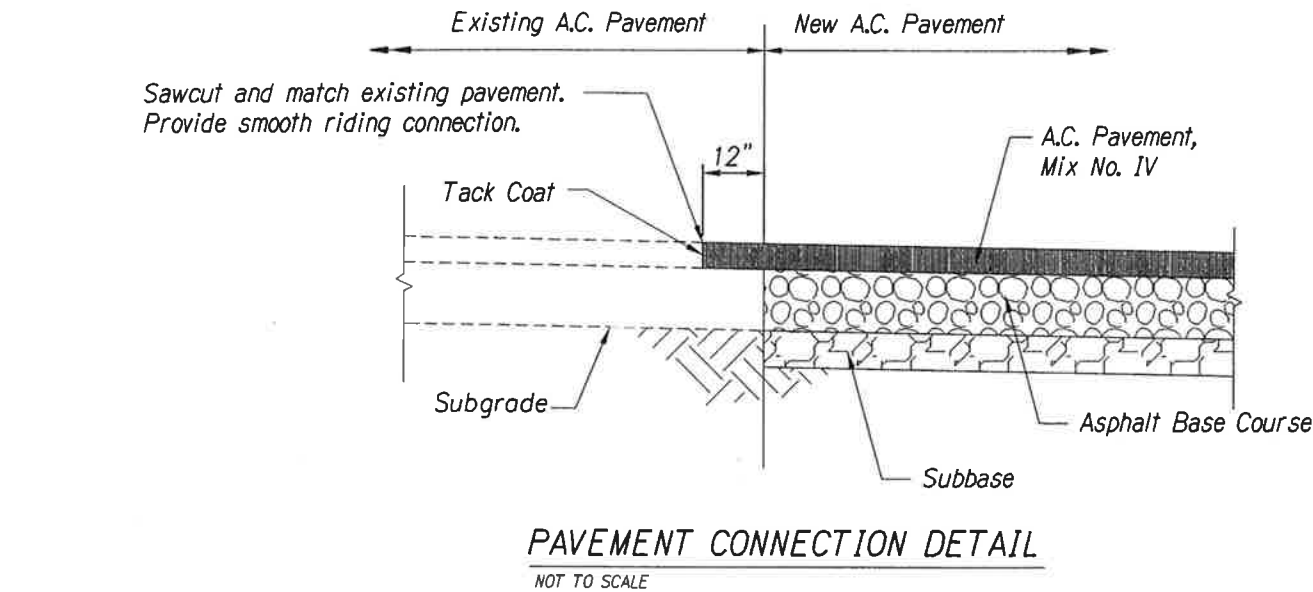
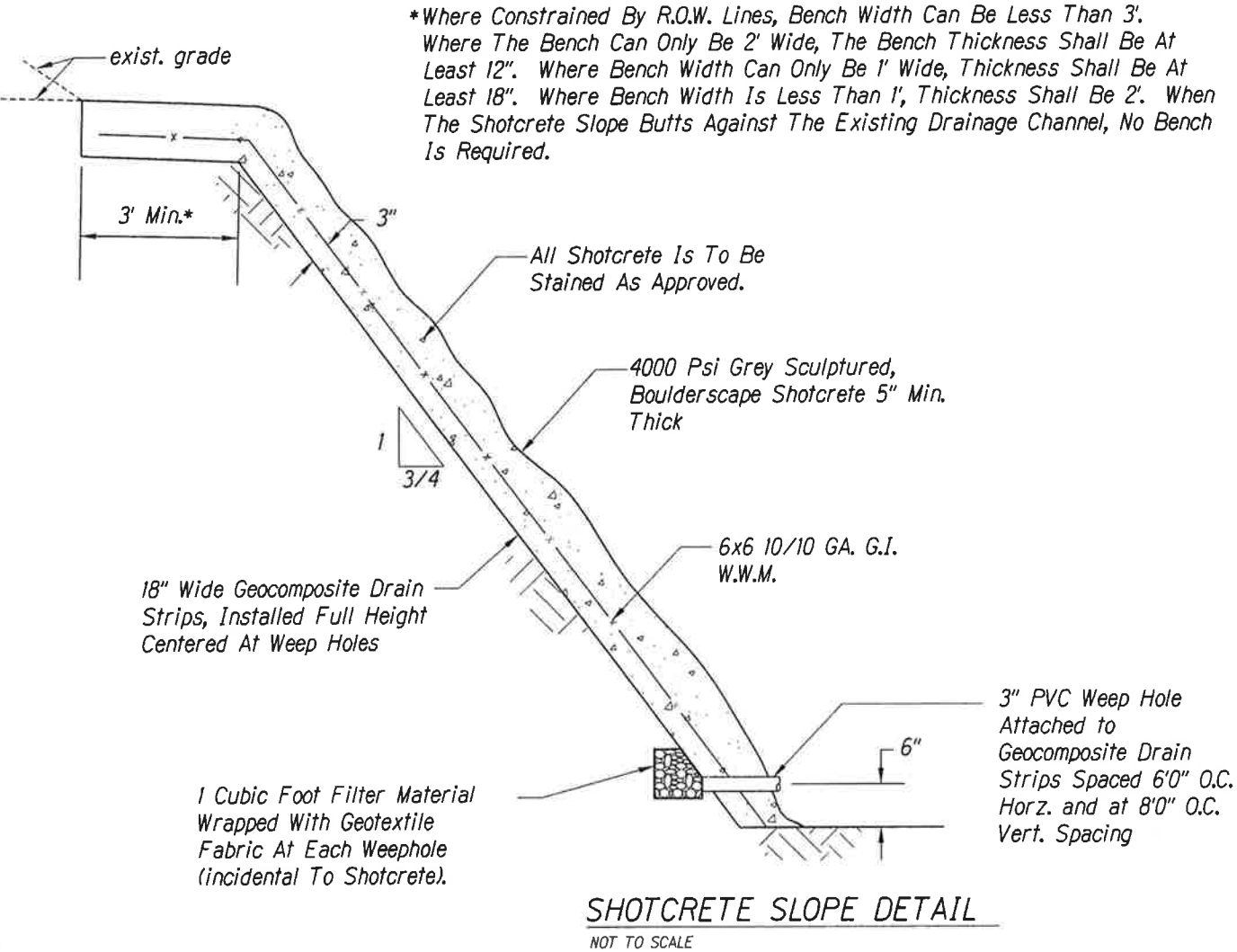


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	8	315



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Wesley R. Segura & Associates, Inc.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 1

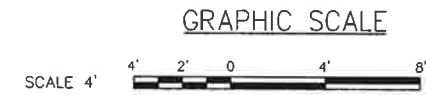
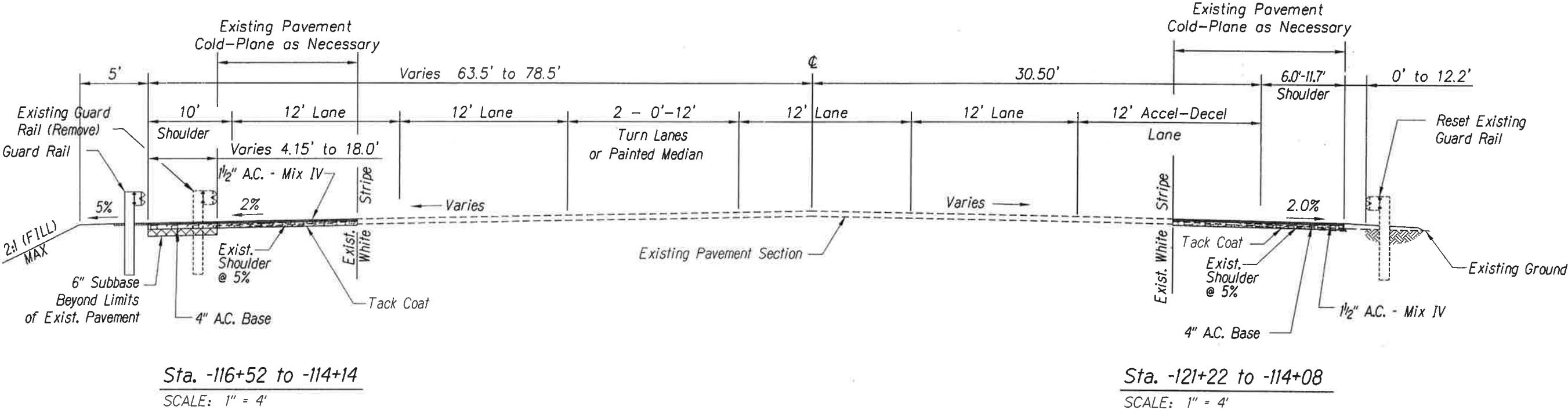
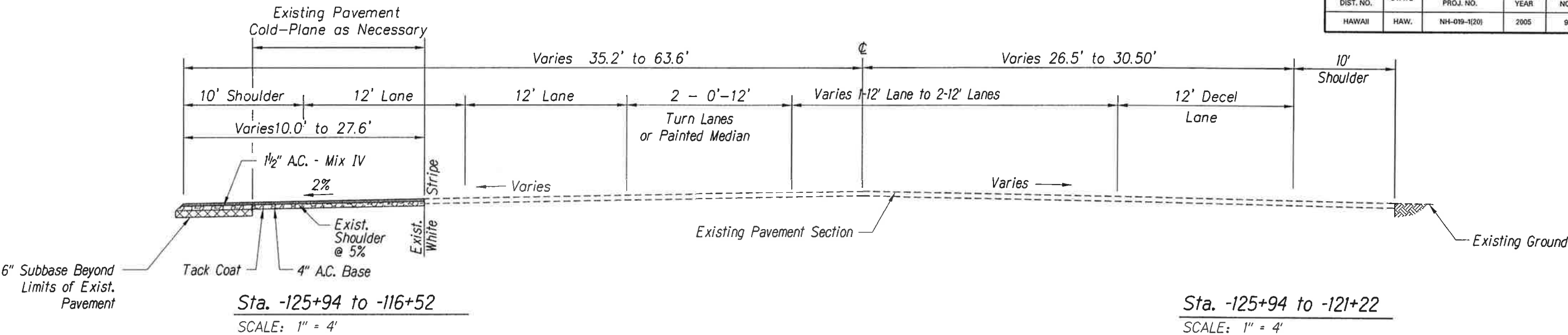
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I

Federal Aid Project No. NH-019-1(20)

Scale: NTS Date: November 2009

SHEET No. 1 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	9	315



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Wesley R. Sogawa

Wesley R. Sogawa & Associates, Inc.

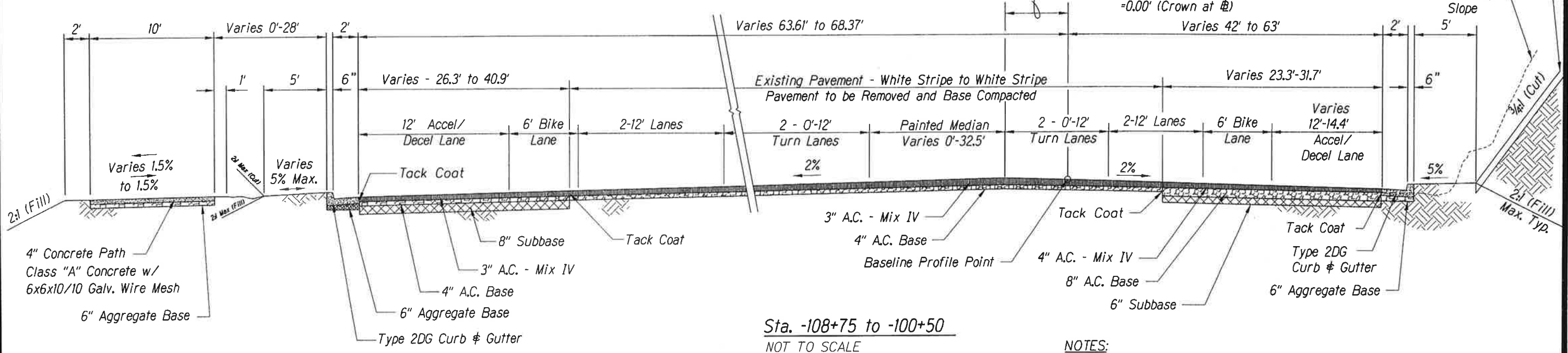
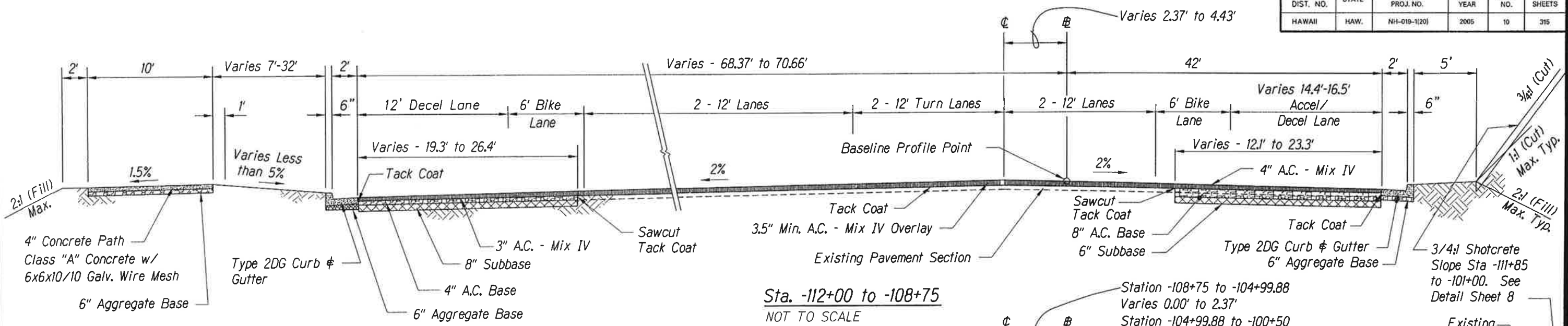
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 2

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: 1" = 4' Date: November 2009

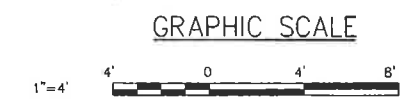
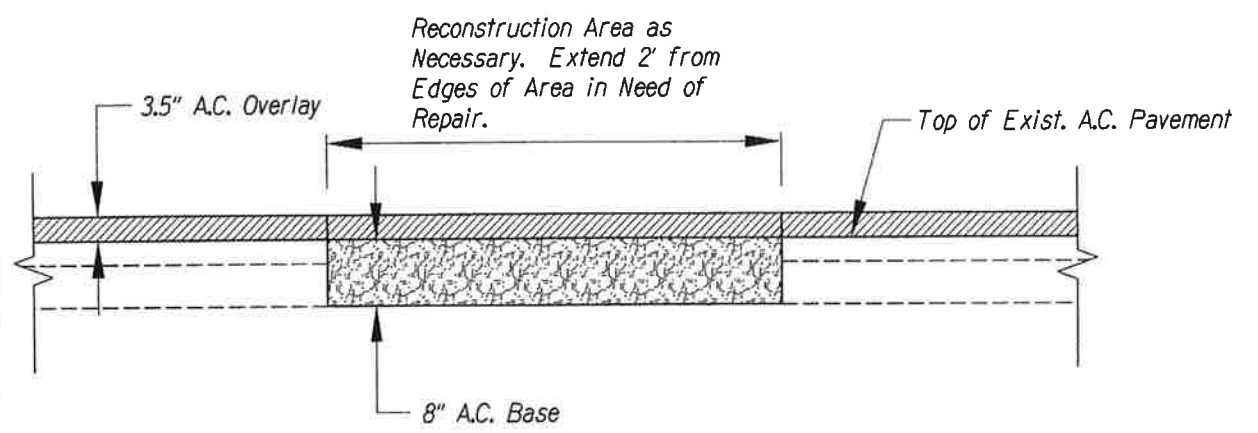
SHEET No. 2 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	10	315



NOTES:

- Existing Shoulder Section Shall be Removed and Replaced with New Pavement Section.
- Area Between Curb and Concrete Path Shall Be Graded to Prevent Ponding.



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Wesley R. Sano & Associates, Inc.

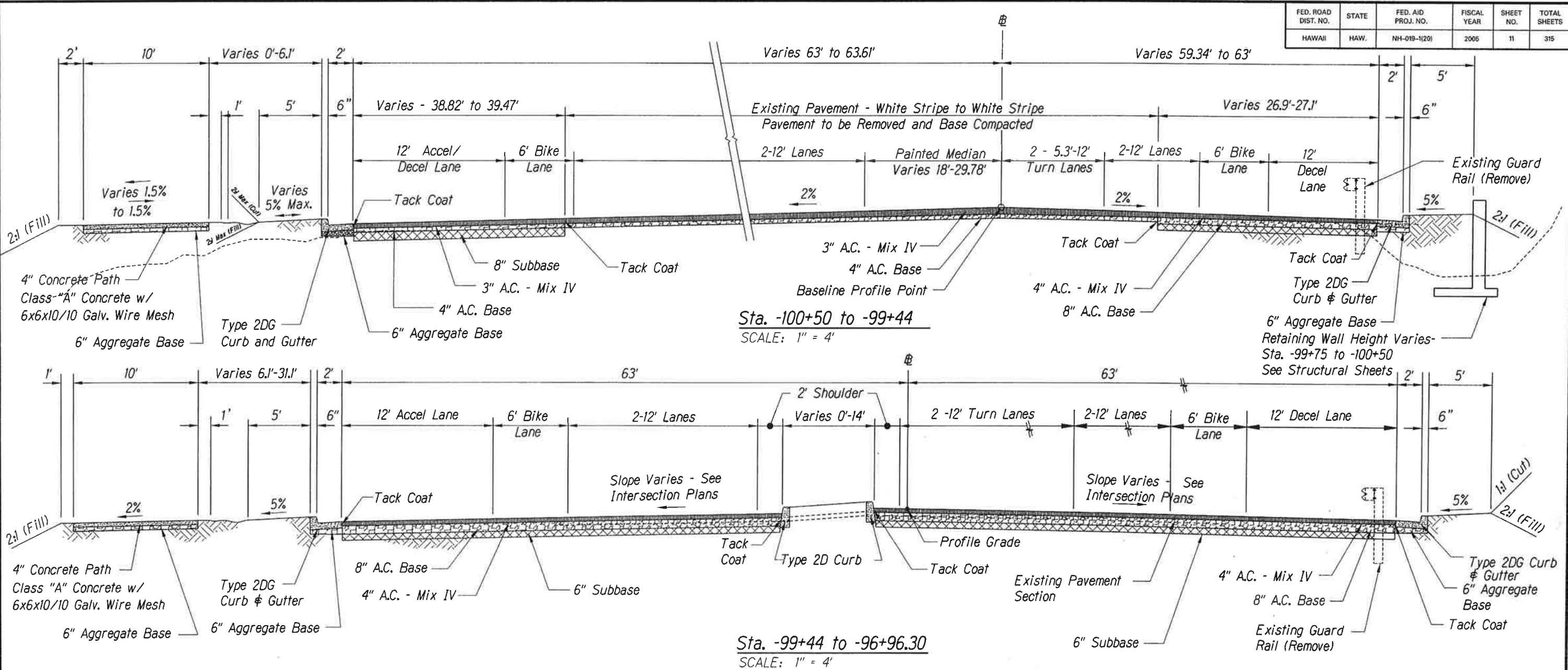
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 3

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

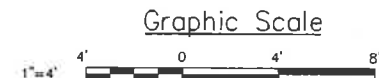
SHEET No. 3 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	11	315



NOTES:

1. See Structural Sheets for Retaining Wall details and locations.
2. Remove exist. pavement section in median areas.
3. Existing shoulder section shall be removed and replaced with new pavement section.
4. Area Between Curb and Concrete Path Shall be Graded to Prevent Ponding.



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Wesley R. Sogawa & Associates, Inc.

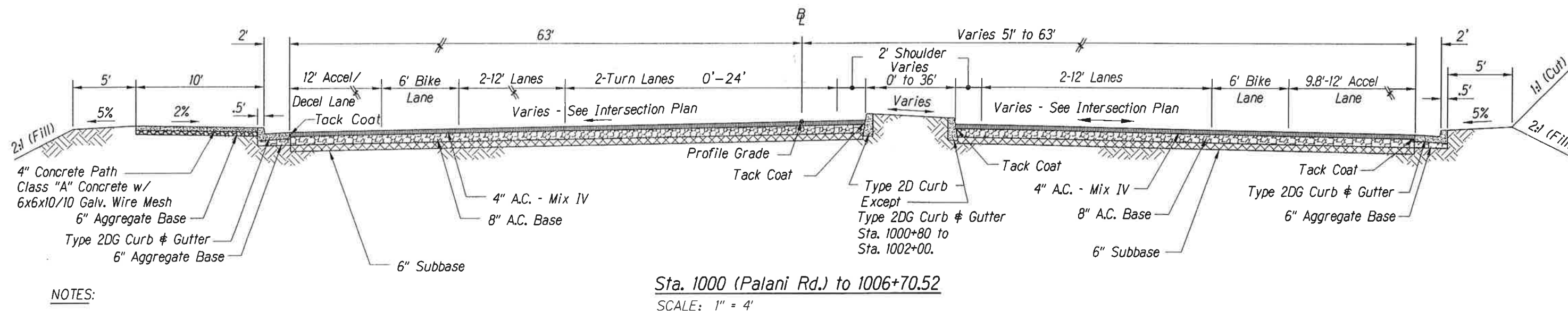
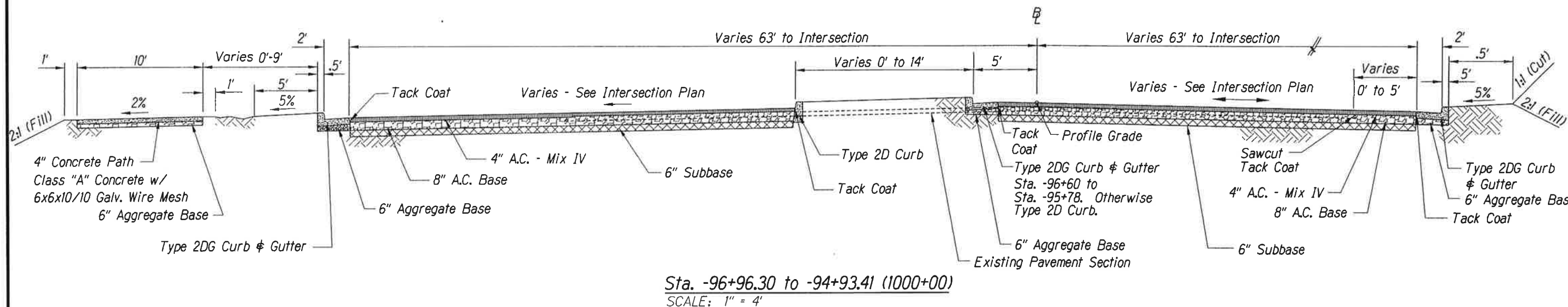
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 4

**QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I**
Federal Aid Project No. NH-019-1(20)
Scale: 1" = 4' Date: November 2009

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	12	315



NOTES:

1. Remove exist. pavement sections in median areas.
2. Existing shoulder section shall be removed and replaced with new pavement section.
3. Area Between Curb and Concrete Path Shall be Graded to Prevent Ponding.

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

GRAPHIC SCALE

SCALE 1"=4' 4' 2' 0' 4' 8'



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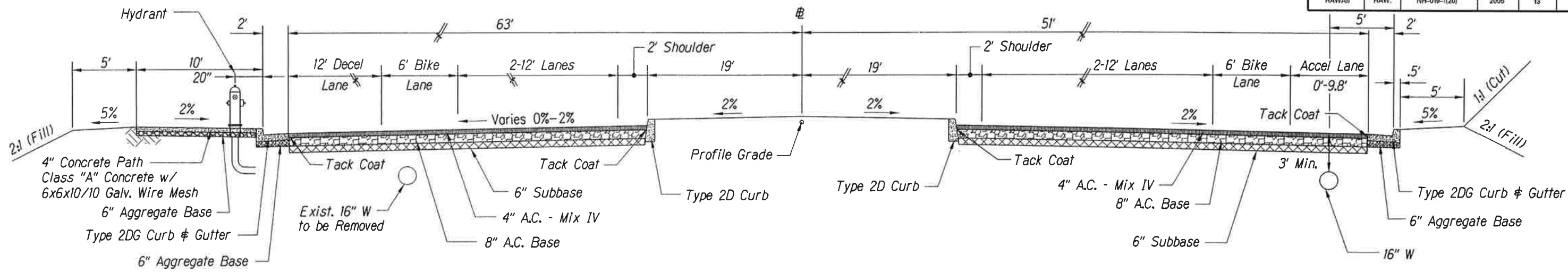
TYPICAL SECTION 5

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: 1" = 4' Date: November 2009

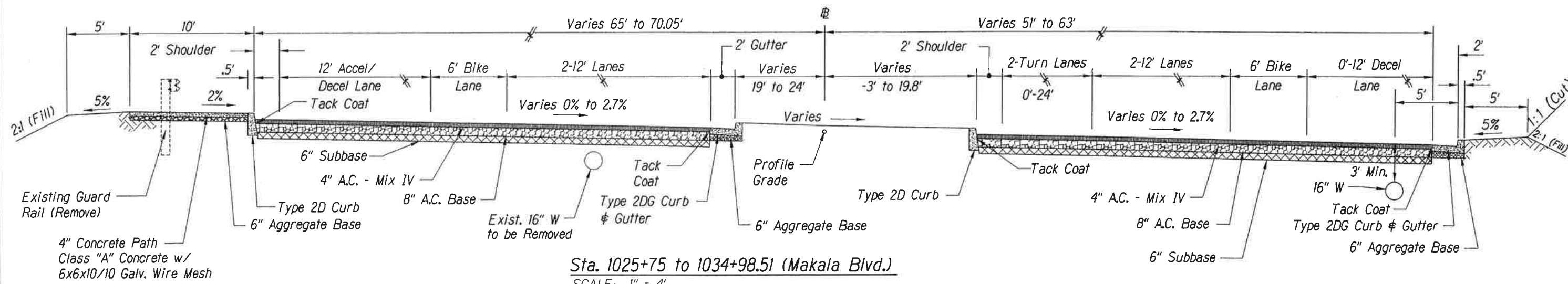
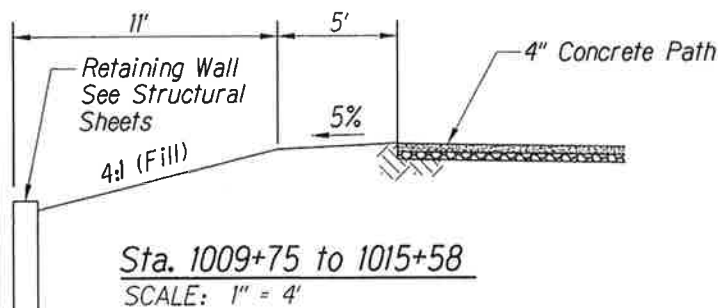
SHEET No. 5 OF 10 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	13	315



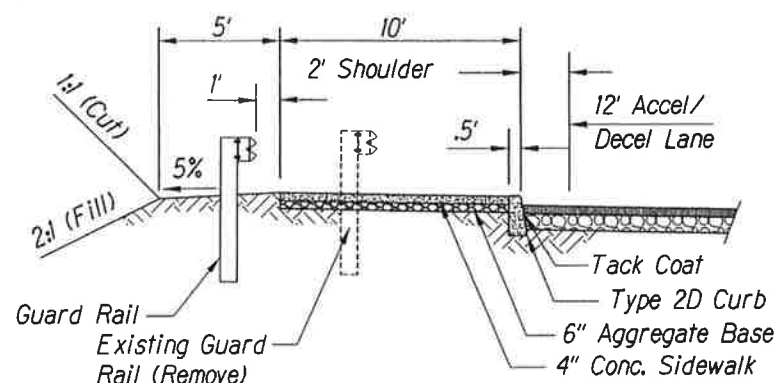
Sta. 1006+70.52 to 1025+75
SCALE: 1" = 4'



Sta. 1025+75 to 1034+98.51 (Makala Blvd.)
SCALE: 1" = 4'

NOTES:

1. Sidewalk surfaces shall be slip resistant.
2. Remove the existing pavement within the roadbed and the existing pavement sections in the median areas.
3. Median widths from Palani Road to Makala Blvd. vary due to left turn requirements.
4. Slope of road and median varies because of superelevation.
5. Typical cross section does not apply at intersections.



Sta. 1033+84.86 to 1034+98.51 (Makala Blvd.)
SCALE: 1" = 4'

GRAPHIC SCALE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

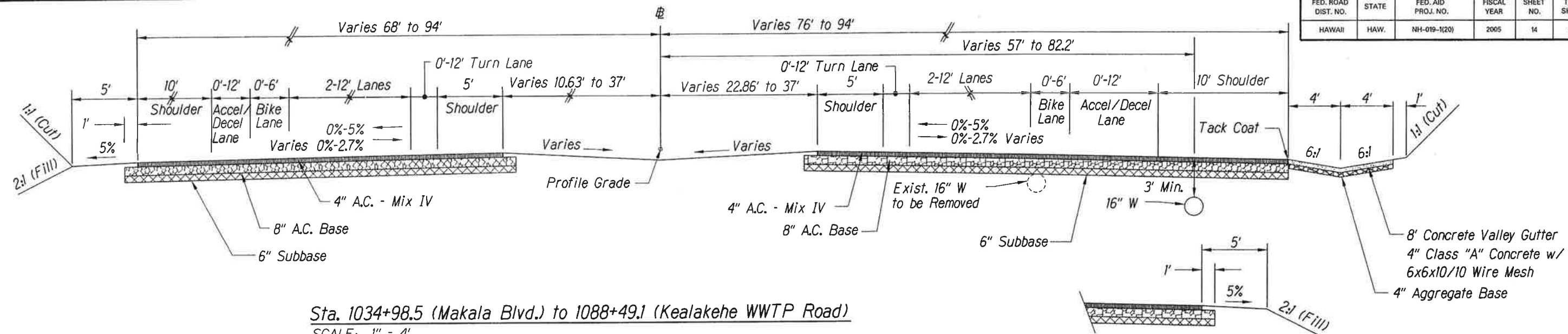
TYPICAL SECTION 6

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

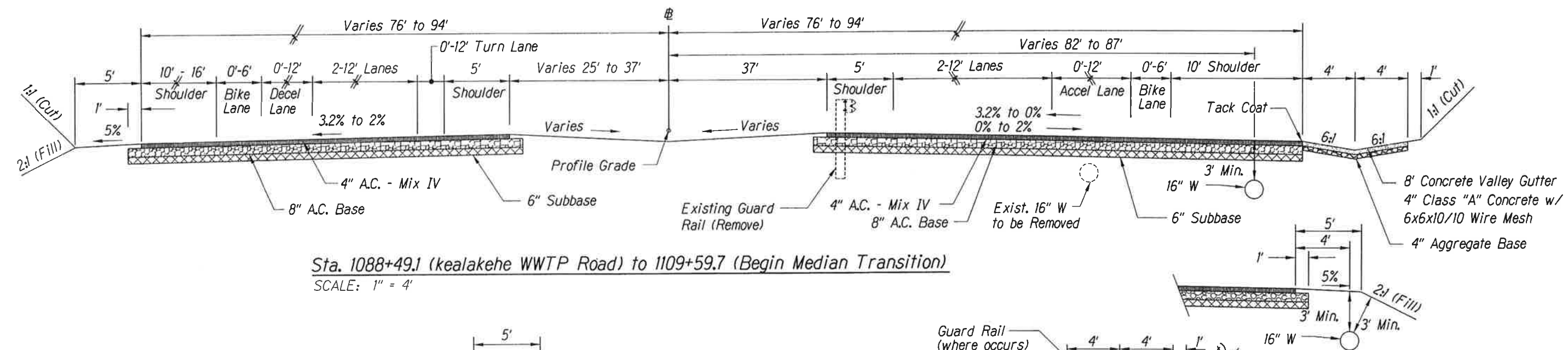
SHEET No. 6 OF 10 SHEETS

AS-BUILT

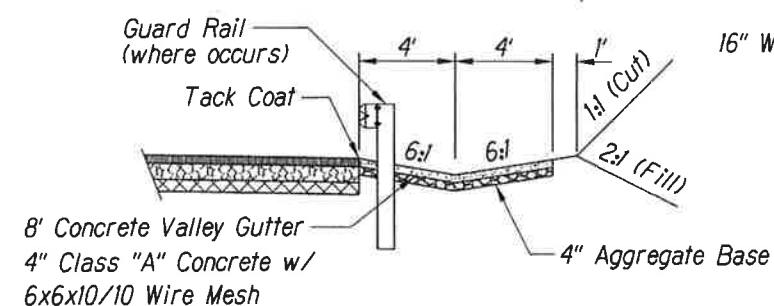
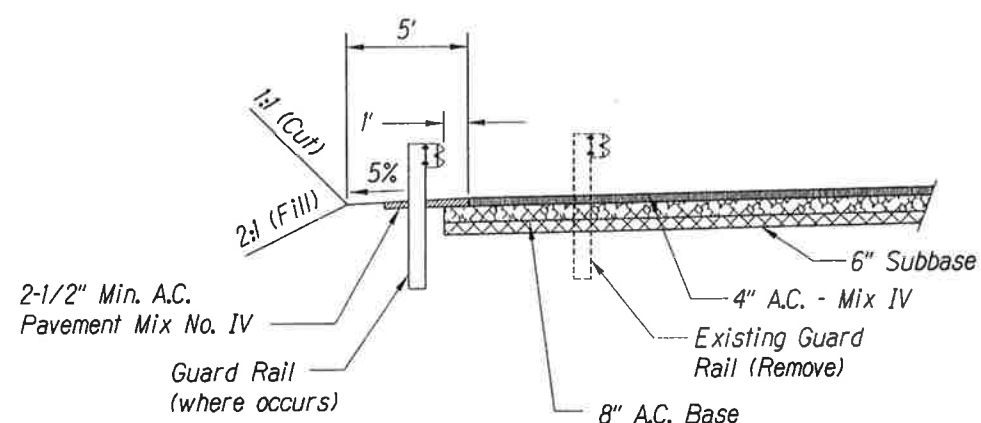
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	14	315



Sta. 1034+98.5 (Makala Blvd.) to 1088+49.1 (Kealakehe WWTP Road)
SCALE: 1" = 4'



Sta. 1088+49.1 (kealakehe WWTP Road) to 1109+59.7 (Begin Median Transition)
SCALE: 1" = 4'



Sta. 1040+00.8 to 1042+42.7
Sta. 1109+07 to 1111+05.9
SCALE: 1" = 4'

NOTES:

1. Sidewalk surfaces shall be slip resistant.
2. Remove existing pavement.
3. Median widths vary due to left turn requirements.
4. Slope of road and median varies because of superelevation.

Sta. 1034+98.5 (Makala Blvd.) to 1044+11.5
Sta. 1046+18.7 to 1053+56.8
Sta. 1072+25 to 1078+37.5
Sta. 1073+77 Rt. to 1078+98 Rt.
SCALE: 1" = 4'

GRAPHIC SCALE



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 7

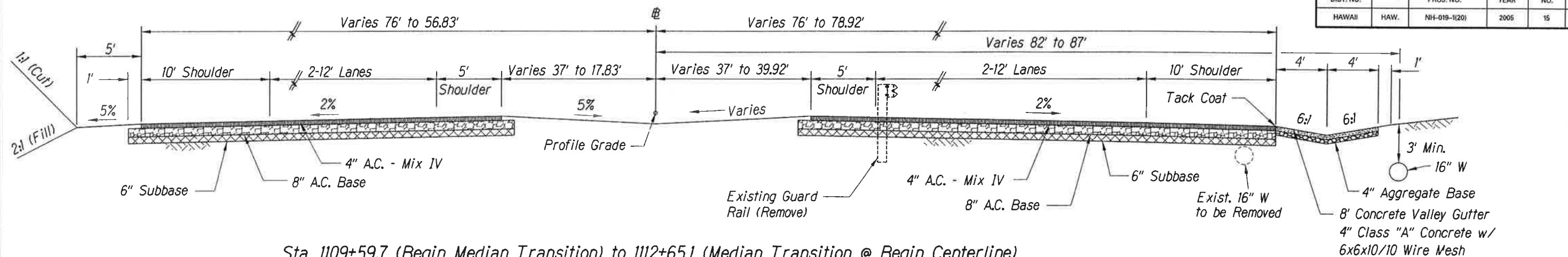
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: 1" = 4' Date: November 2009

SHEET No. 7 OF 10 SHEETS

AS-BUILT

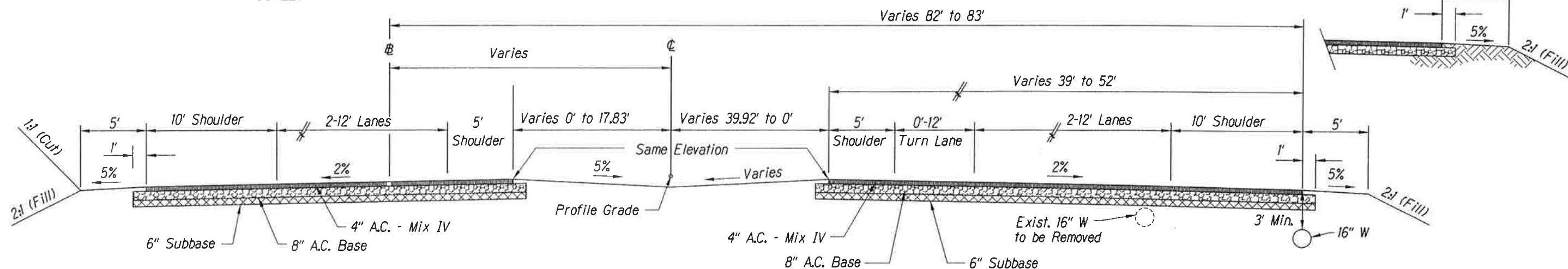
14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	15	315



Sta. 1109+59.7 (Begin Median Transition) to 1112+65.1 (Median Transition @ Begin Centerline)

SCALE: 1" = 4'

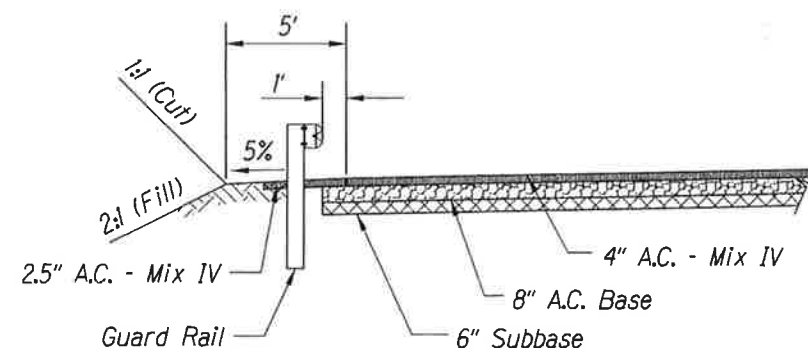


Sta. 1112+65.1 (Median Transition @ Begin Centerline) to 1115+81.2 (End Median)

SCALE: 1" = 4'

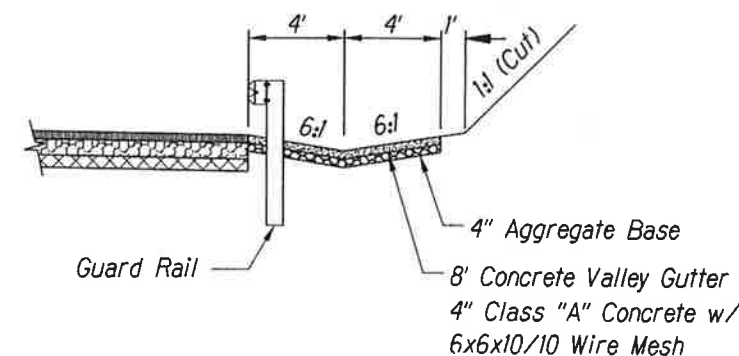
NOTES:

1. Remove the existing pavement within the roadbed and the existing pavement sections in the median areas.
2. Median widths vary due to left turn requirements.



Sta. 1110+24.7 to 1113+35

SCALE: 1" = 4'



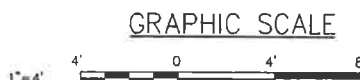
Sta. 1009+59.7 to 1111+13

Scale: 1" = 4'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 8

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I

Federal Aid Project No. NH-019-1(20)

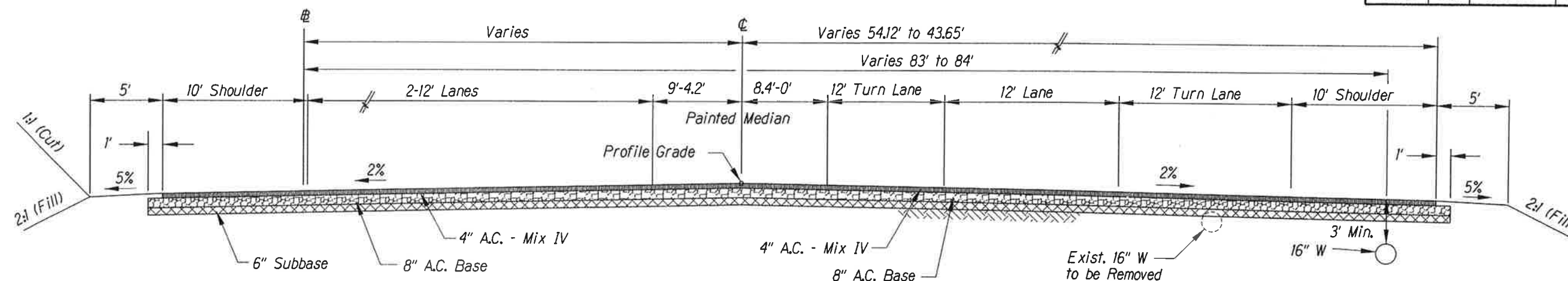
Scale: 1" = 4'

Date: November 2009

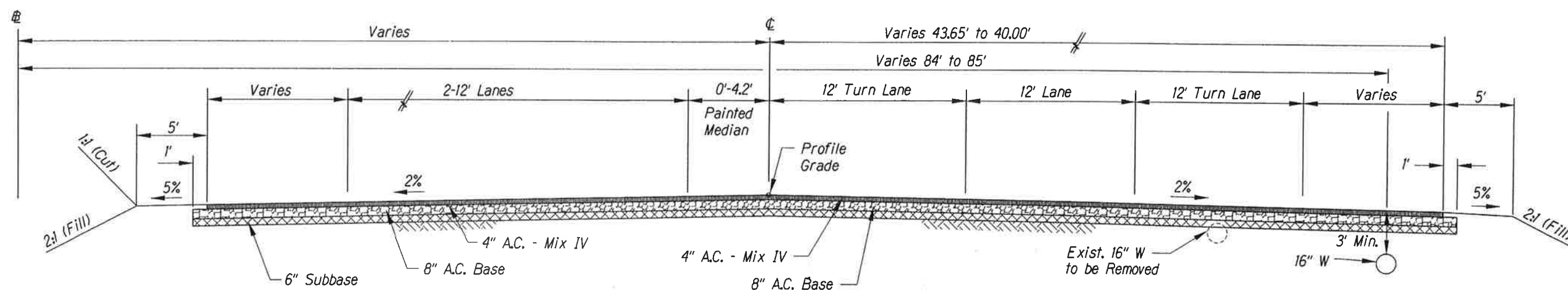
SHEET No. 8 OF 10 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	16	31E



Sta. 1115+81.2 to 1118+00
SCALE: 1" = 4'



Sta. 1118+00 to 1120+00 (Match Existing Pavement)
SCALE: 1" = 4'

NOTES:

1. Remove the existing pavement within the roadbed and the existing pavement sections in the median areas.
2. Median widths vary due to left turn requirements.

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
REVISIONS	
ORIGINAL	

GRAPHIC SCALE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

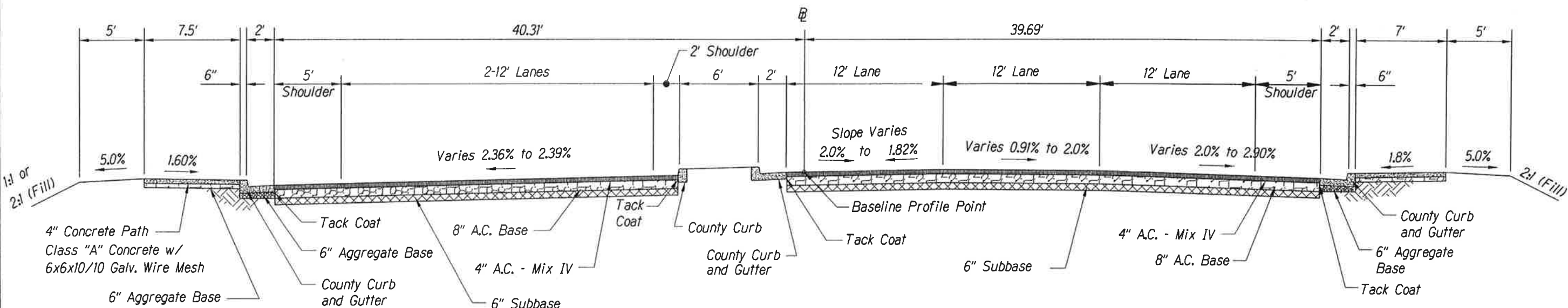
TYPICAL SECTION 9

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: 1" = 4' Date: November 2009

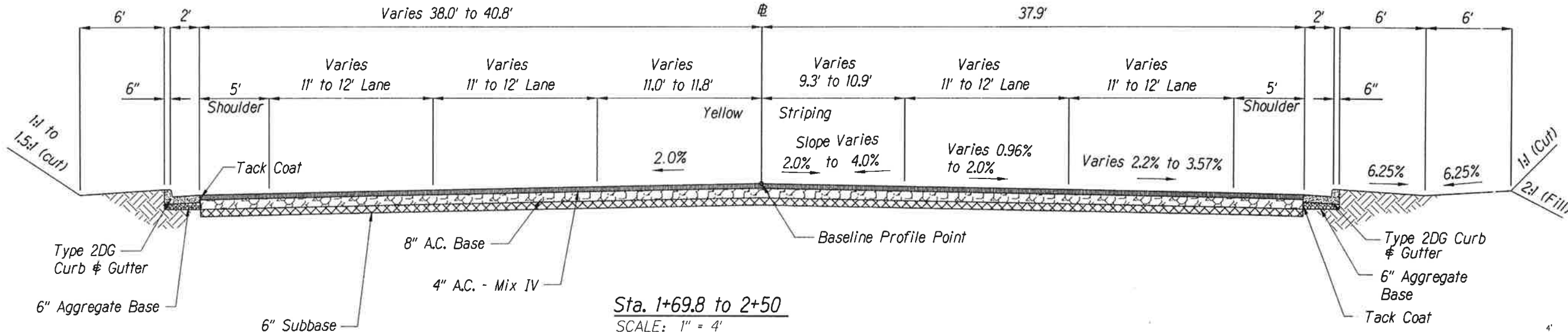
SHEET No. 9 OF 10 SHEETS

AS-BUILT

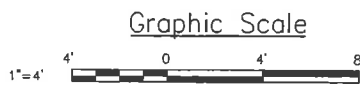
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	17	315



Sta. -2+00 to -1+70
SCALE: 1" = 4'



Sta. 1+69.8 to 2+50
SCALE: 1" = 4'



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Wesley R. Segawa & Associates, Inc.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION 10
MAKALA INTERSECTION

QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)

Scale: 1" = 4' Date: November 2009

AS-BUILT