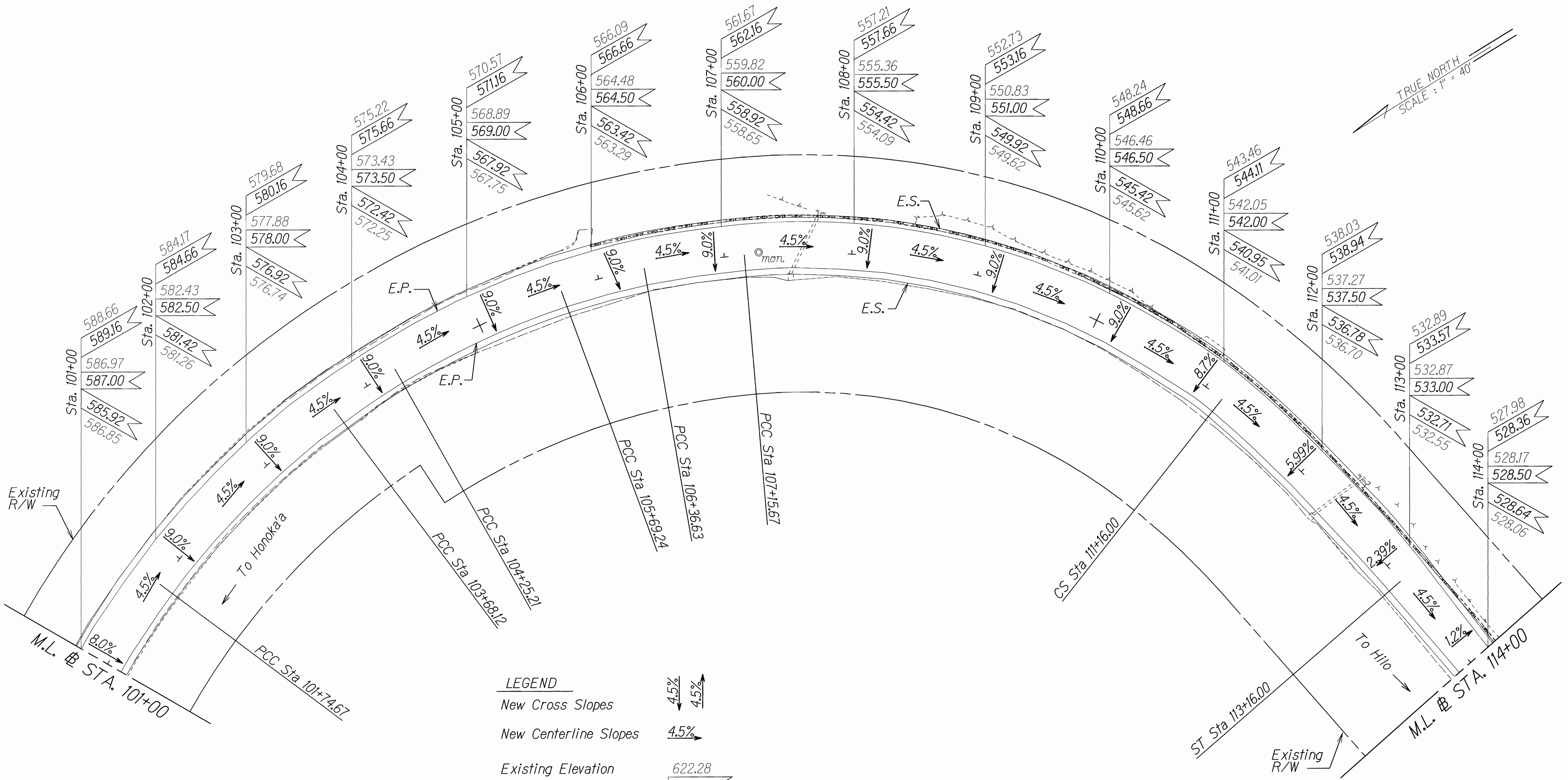


DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	9	42



LEGEND

New Cross Slopes

New Centerline Slopes

Existing Elevation

New Finish Elevation

Left White Stripe

Centerline Of Roadway

Right White Stripe

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

(Ka'awali'i Gulch)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLANS

HAWAII BELT ROAD

Safety Improvements

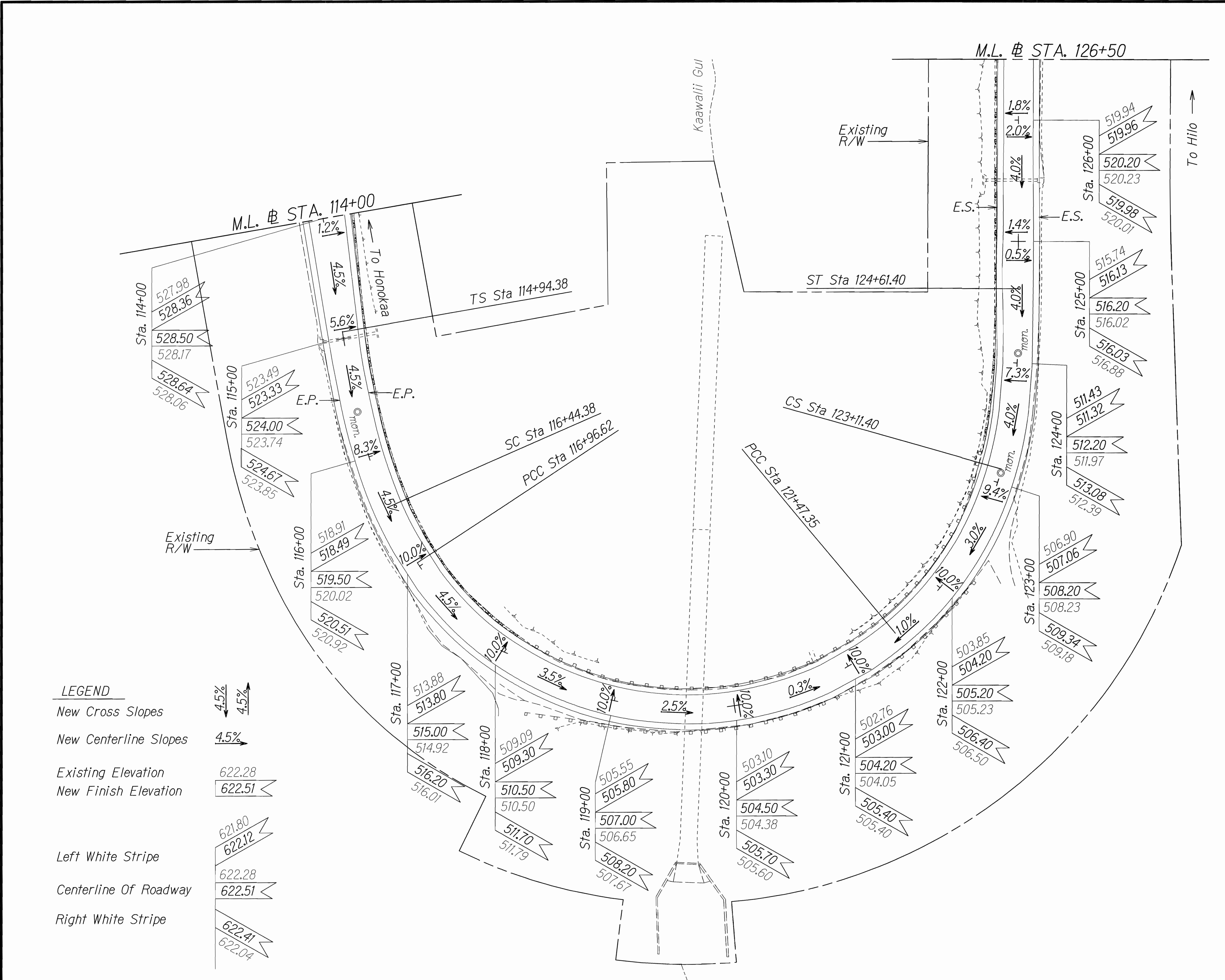
Laupahoehoe Gulch and Ka'awali'i Gulch

Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40' Date: June, 2012

SHEET No. 2 OF 10 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	10	42



LEGEND	
New Cross Slopes	4.5% 4.5%
New Centerline Slopes	4.5%
Existing Elevation	622.28
New Finish Elevation	622.51
Left White Stripe	621.80 622.12
Centerline Of Roadway	622.28 622.51
Right White Stripe	622.41 622.04

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

(Ka'awali'i Gulch)

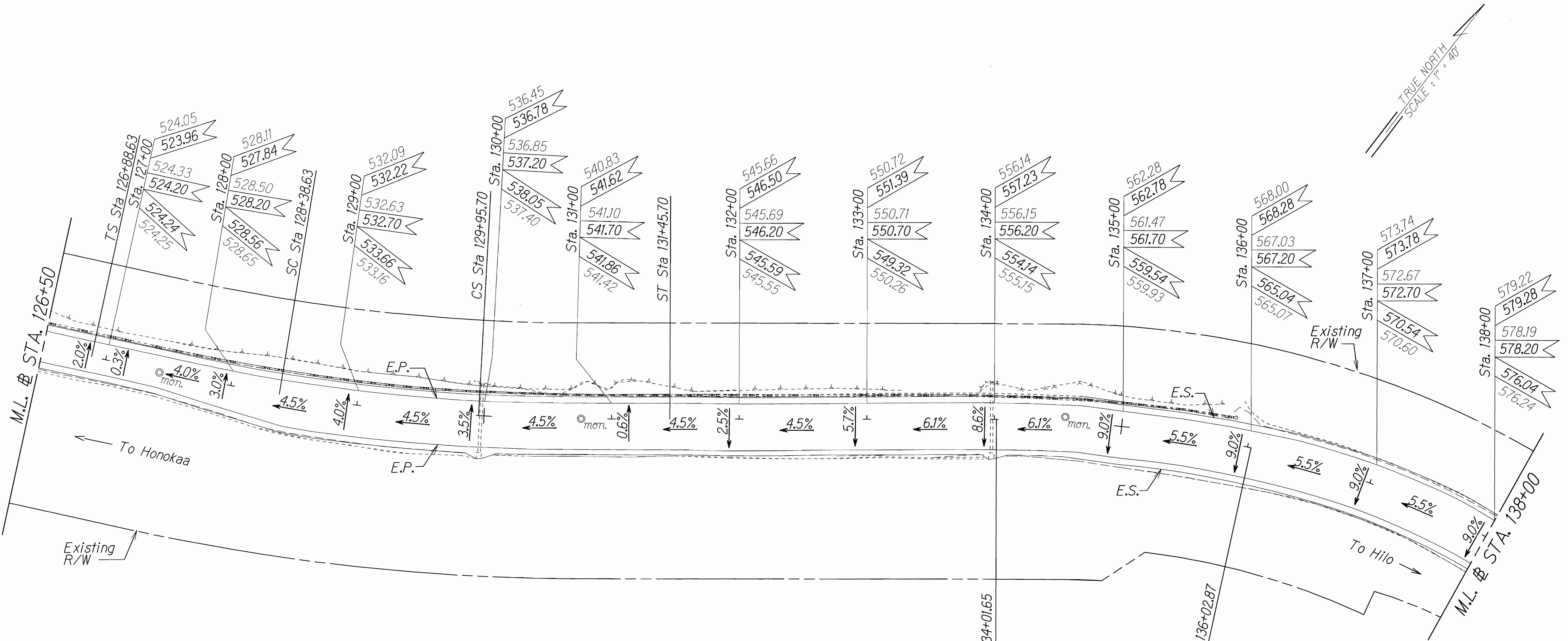
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLANS
HAWAII BELT ROAD
Safety Improvements
Laupahoehoe Gulch and Ka'awali'i Gulch
Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40' Date: June, 2012

SHEET No. 3 OF 10 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	11	42



TRUE NORTH
SCALE : 1" = 40'

LEGEND	
New Cross Slopes	4.5% ↑ 4.5% ↓
New Centerline Slopes	4.5% ↓
Existing Elevation	622.28
New Finish Elevation	622.51
Left White Stripe	621.80 622.12
Centerline Of Roadway	622.28 622.51
Right White Stripe	622.41 622.04

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

(Ka'awali'i Gulch)

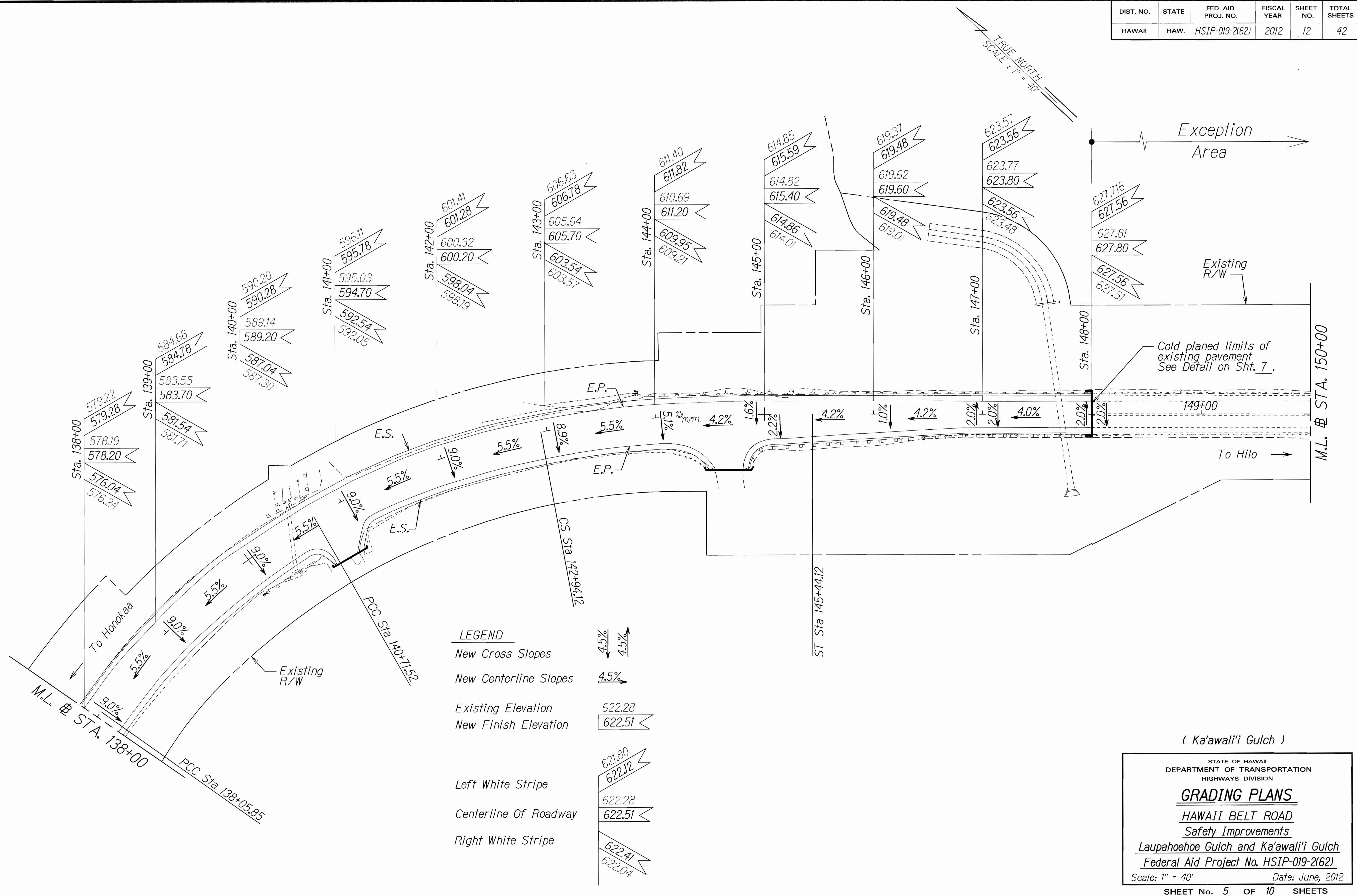
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLANS
HAWAII BELT ROAD
Safety Improvements
Laupahoehoe Gulch and Ka'awali'i Gulch
Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40' Date: June, 2012

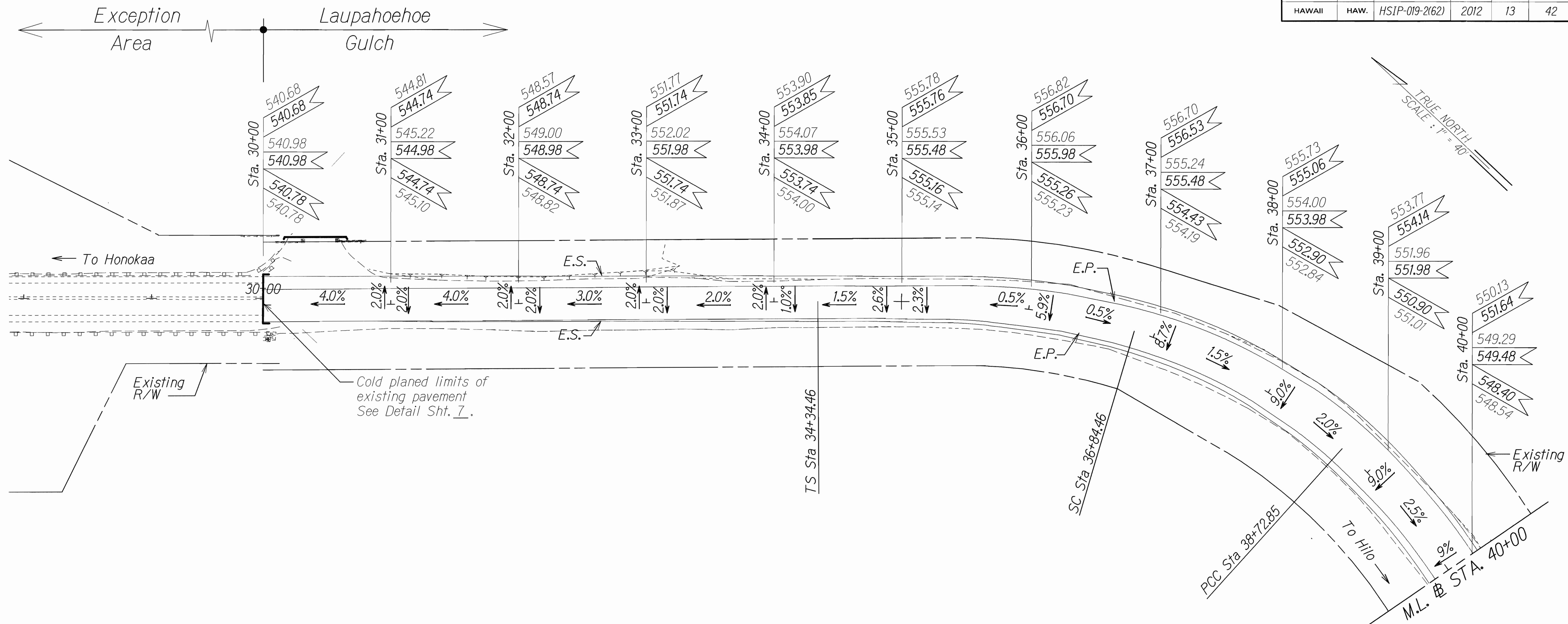
SHEET No. 4 OF 10 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	12	42



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

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	13	42



LEGEND	
New Cross Slopes	
New Centerline Slopes	
Existing Elevation	
New Finish Elevation	
Left White Stripe	
Centerline Of Roadway	
Right White Stripe	

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

(Laupahoehoe Gulch)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLANS

HAWAII BELT ROAD

Safety Improvements

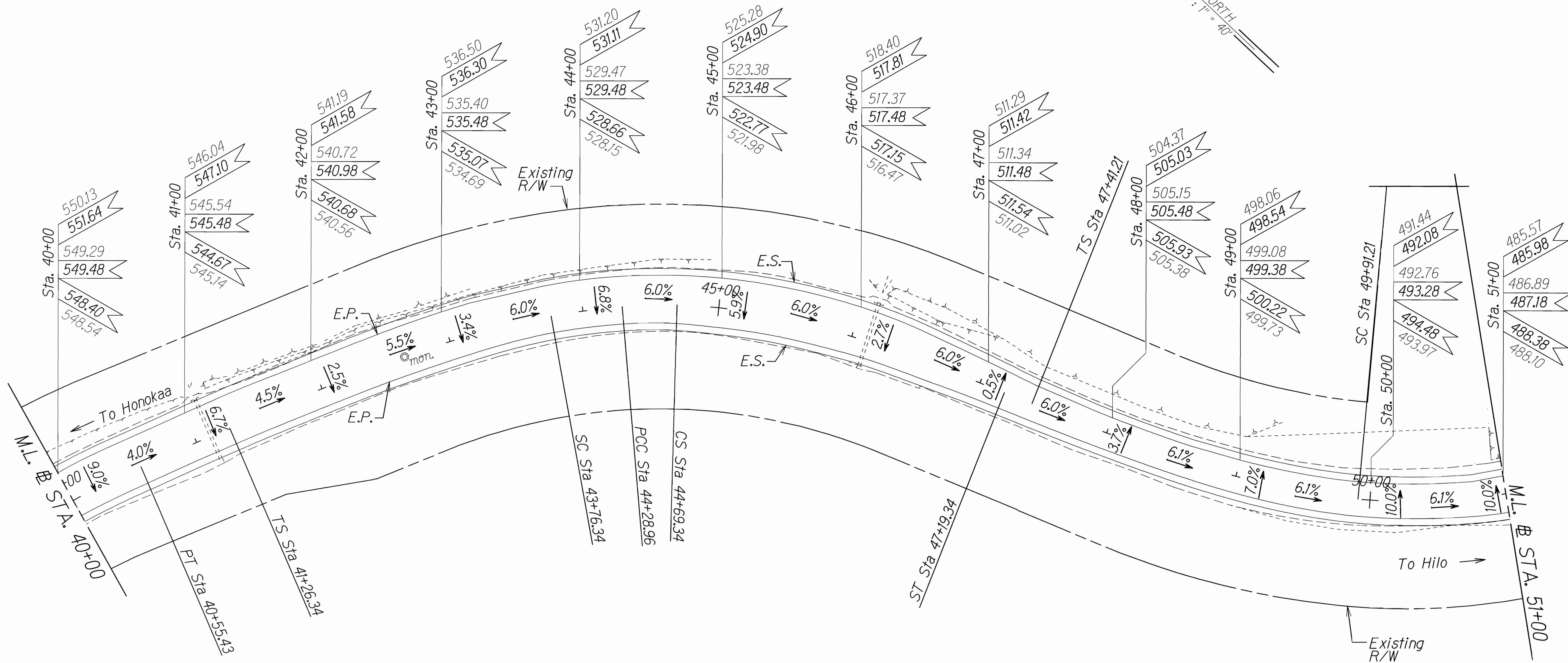
Laupahoehoe Gulch and Ka'awali'i Gulch

Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40' Date: June, 2012

SHEET No. 6 OF 10 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	14	42



LEGEND	
New Cross Slopes	
New Centerline Slopes	
Existing Elevation	
New Finish Elevation	
Left White Stripe	
Centerline Of Roadway	
Right White Stripe	

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

(Laupahoehoe Gulch)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLANS

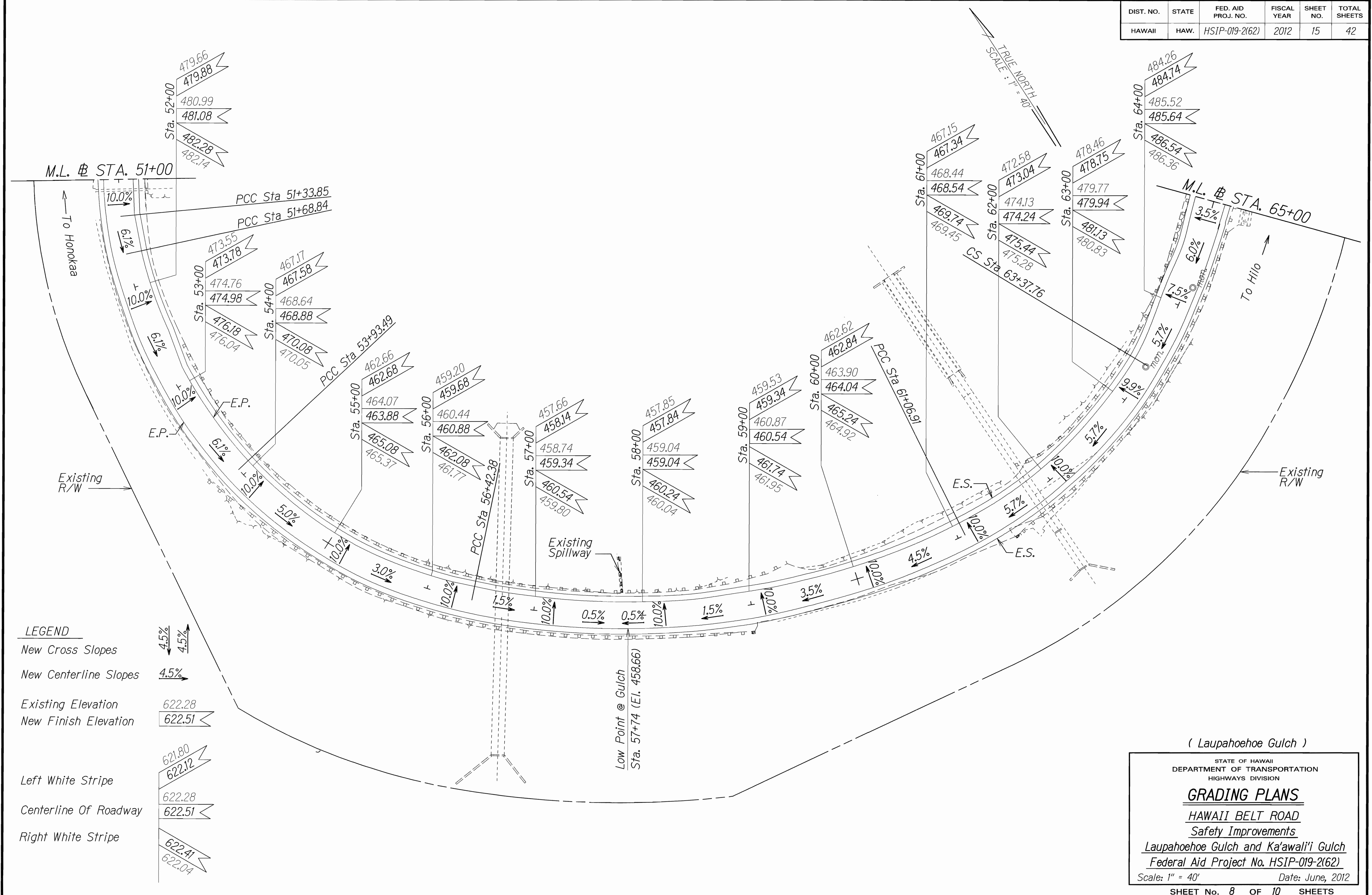
HAWAII BELT ROAD
Safety Improvements

Laupahoehoe Gulch and Ka'awali'i Gulch
Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40' Date: June, 2012

SHEET No. 7 OF 10 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	15	42



DATE	1/1/12
SURVEY PLOTTED BY	...
DESIGNED BY	...
QUANTITIES BY	...
CHECKED BY	...

(Laupahoehoe Gulch)

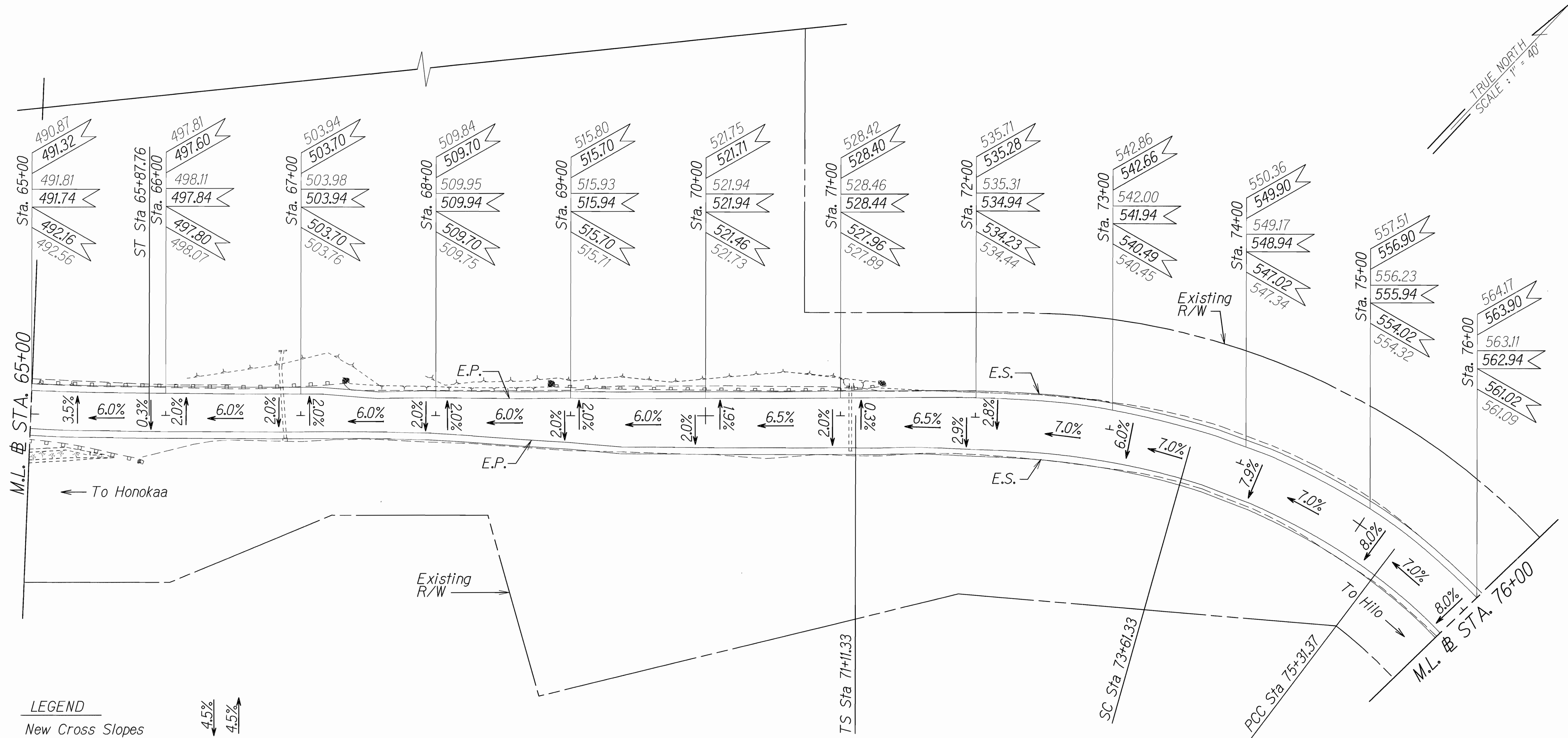
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLANS
HAWAII BELT ROAD
Safety Improvements
Laupahoehoe Gulch and Ka'awali'i Gulch
Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40' Date: June, 2012

SHEET No. 8 OF 10 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	16	42



LEGEND	
New Cross Slopes	4.5%
New Centerline Slopes	4.5%
Existing Elevation	622.28
New Finish Elevation	622.51
Left White Stripe	621.80
Centerline Of Roadway	622.28
Right White Stripe	622.41

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

(Laupahoehoe Gulch)

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GRADING PLANS

HAWAII BELT ROAD

Safety Improvements

Laupahoehoe Gulch and Ka'awali'i Gulch

Federal Aid Project No. HSIP-019-2(62)

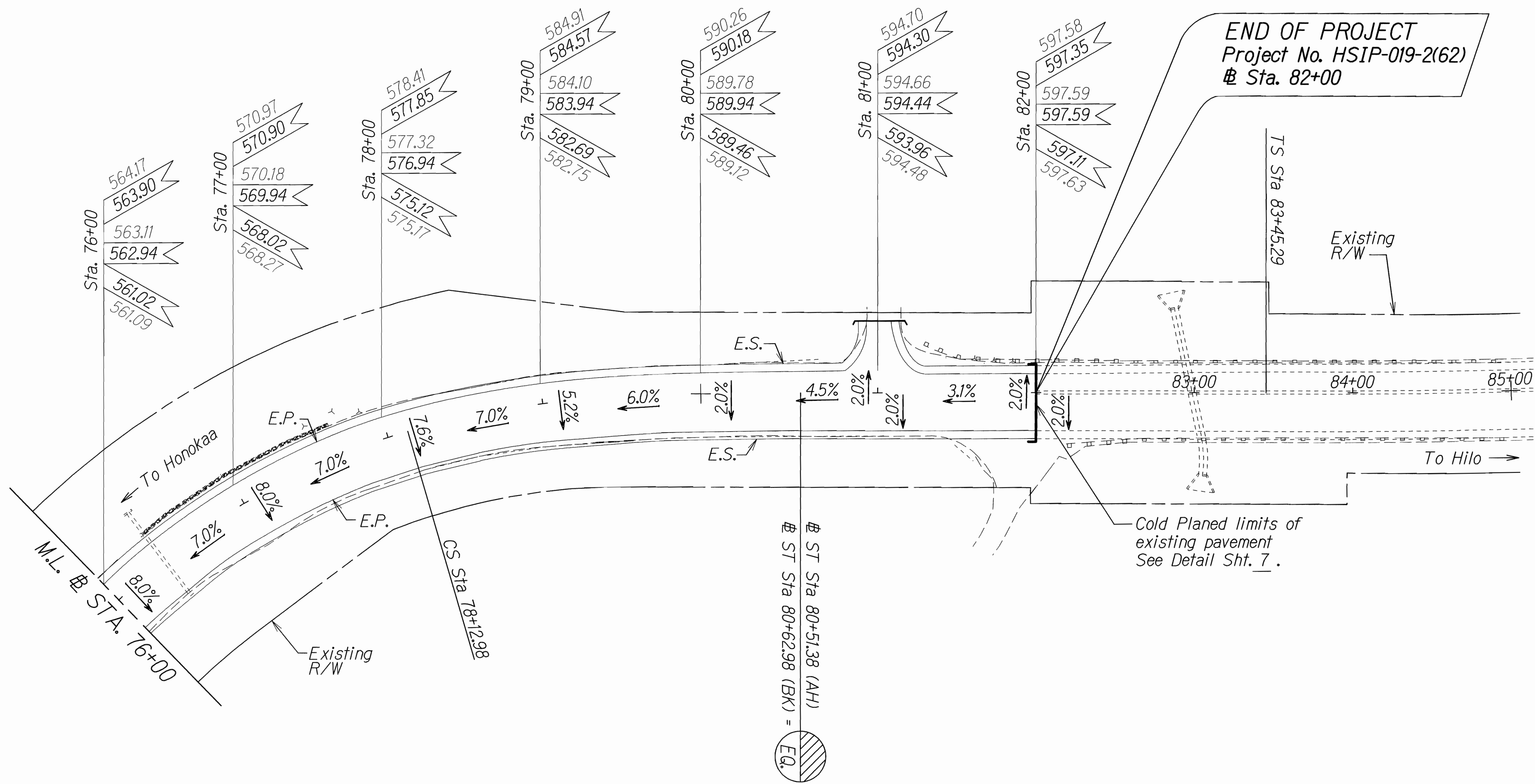
Scale: 1" = 40'

Date: June, 2012

SHEET No. 9 OF 10 SHEETS

16

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-2(62)	2012	17	42



LEGEND	
New Cross Slopes	
New Centerline Slopes	
Existing Elevation	
New Finish Elevation	
Left White Stripe	
Centerline Of Roadway	
Right White Stripe	

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

(Laupahoehoe Gulch)

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GRADING PLANS

HAWAII BELT ROAD

Safety Improvements

Laupahoehoe Gulch and Ka'awali'i Gulch

Federal Aid Project No. HSIP-019-2(62)

Scale: 1" = 40'

Date: June, 2012