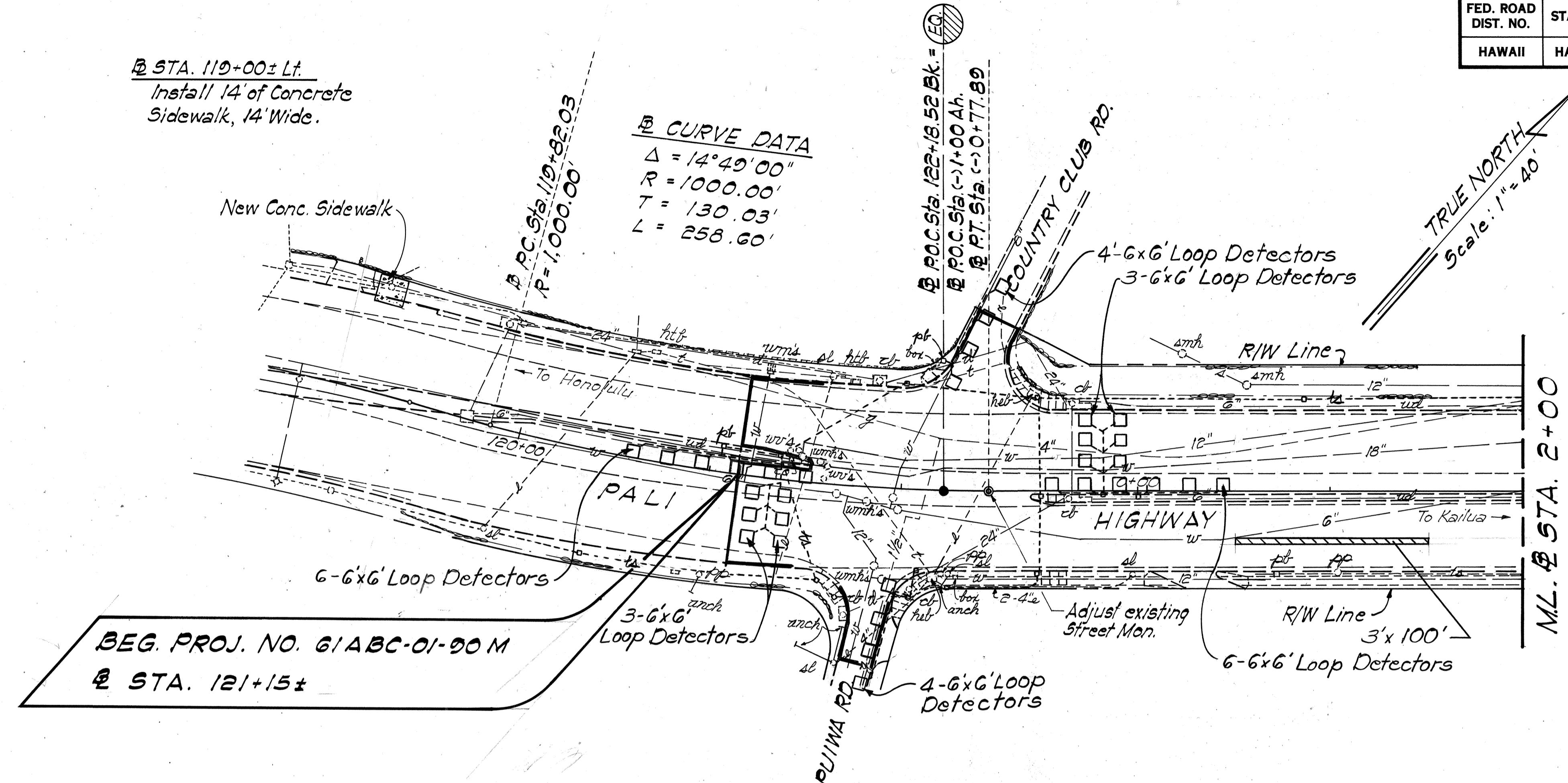


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	7	44

STA. 119+00 ± Lt.
Install 14' of Concrete
Sidewalk, 14' Wide.



ORIGINAL PLAN	SURVEY PLOTTED BY _____ DRAWN BY _____ TRACED BY _____	DATE _____ _____
NOTE BOOK	DESIGNED BY _____ QUANTITIES BY _____	_____
NO. _____	CHECKED BY _____	_____

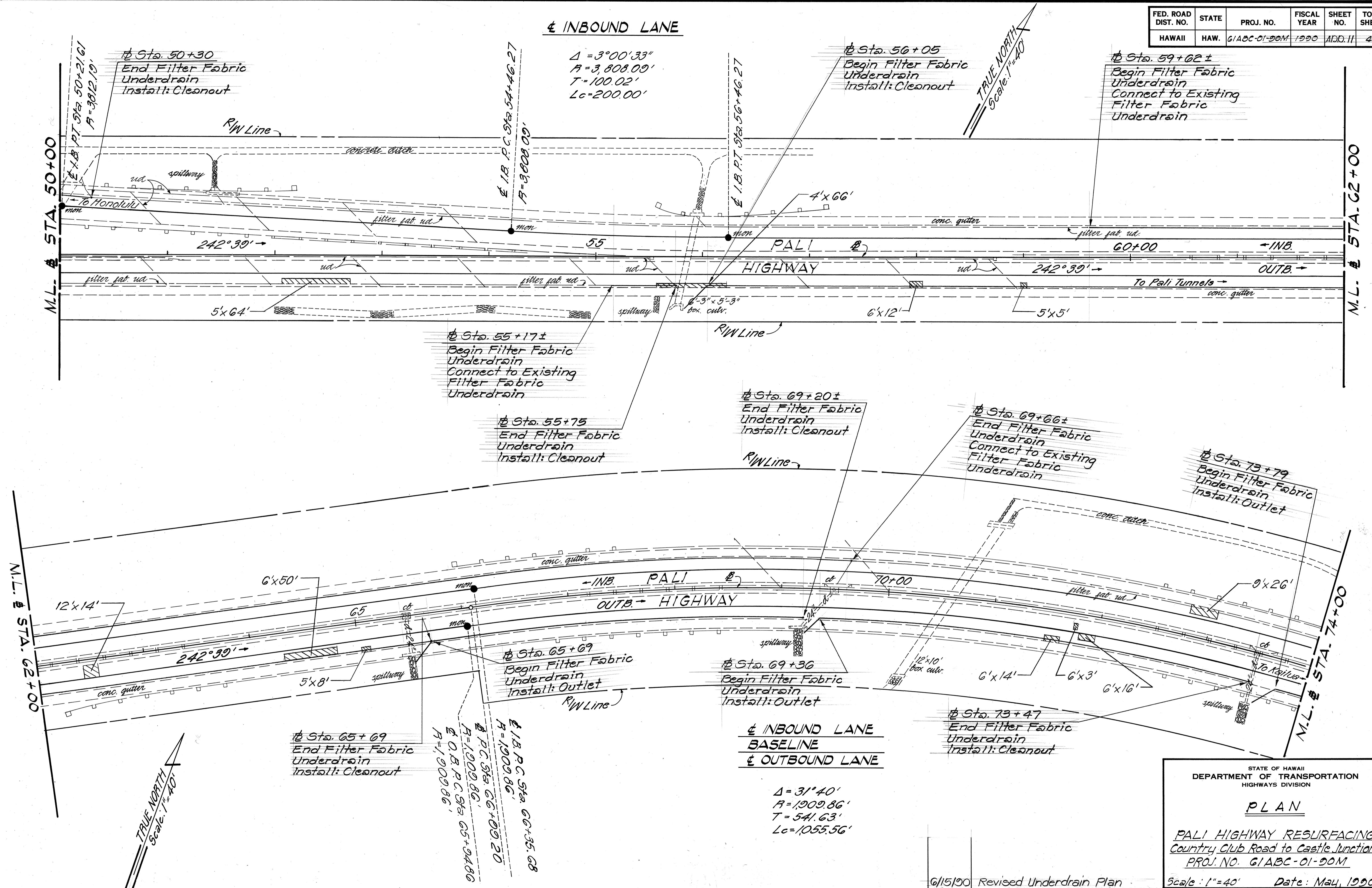
**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

PLAN

PALI HIGHWAY RESURFACING
Country Club Road to Castle Junction
PROJ. NO. GIABC -01-00M

Scale: 1" = 40' Date: May, 1990
SHEET No. 1 OF 14 SHEETS

ED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	ADD. 11	44



**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

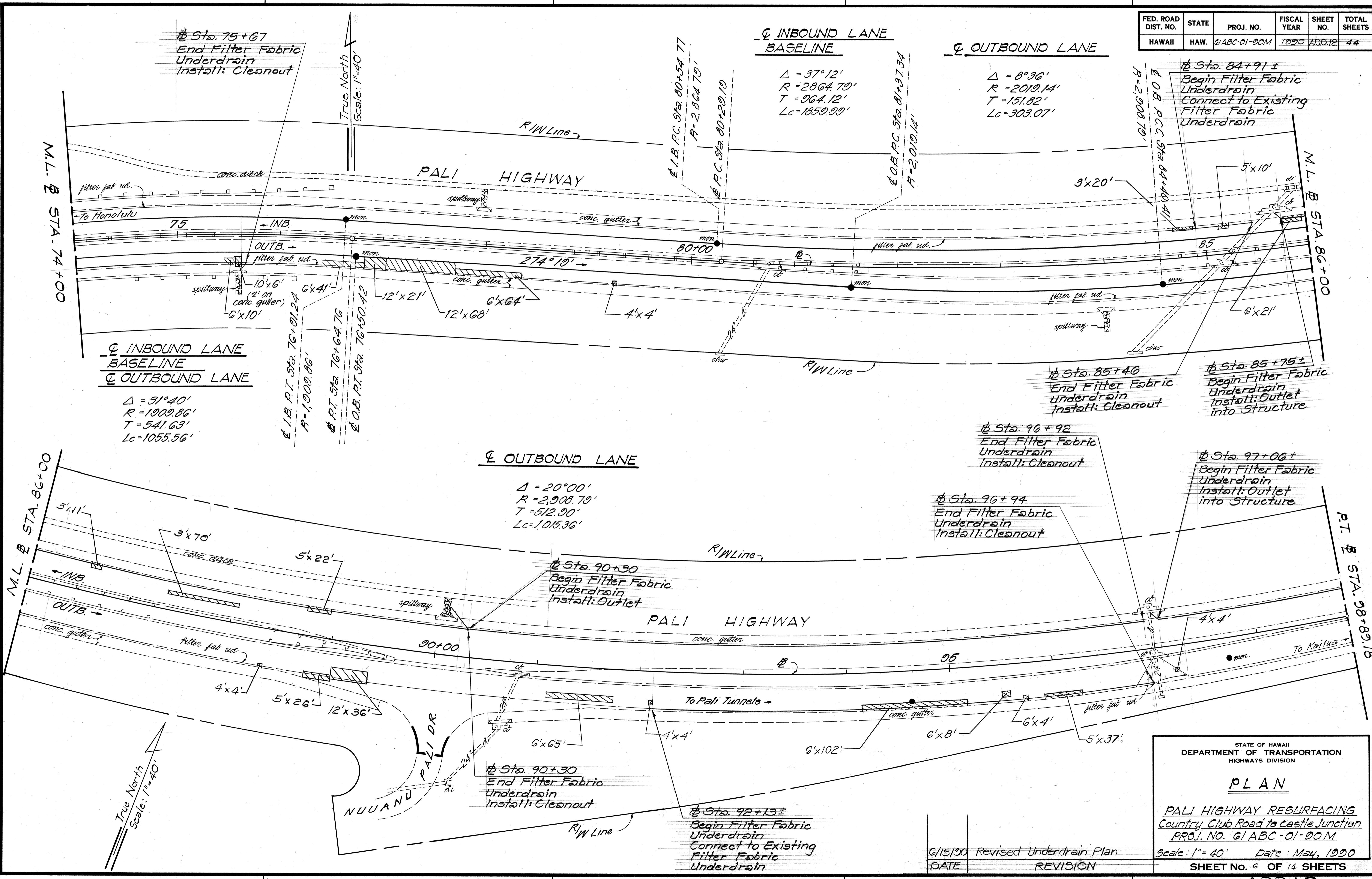
ALI HIGHWAY RESURFACING
Country Club Road to Castle Junction
PROJ. NO. G1ABC-01-90M

scale : 1" = 40' Date: May, 1990

SHEET NO. 5 OF 14 SHEETS

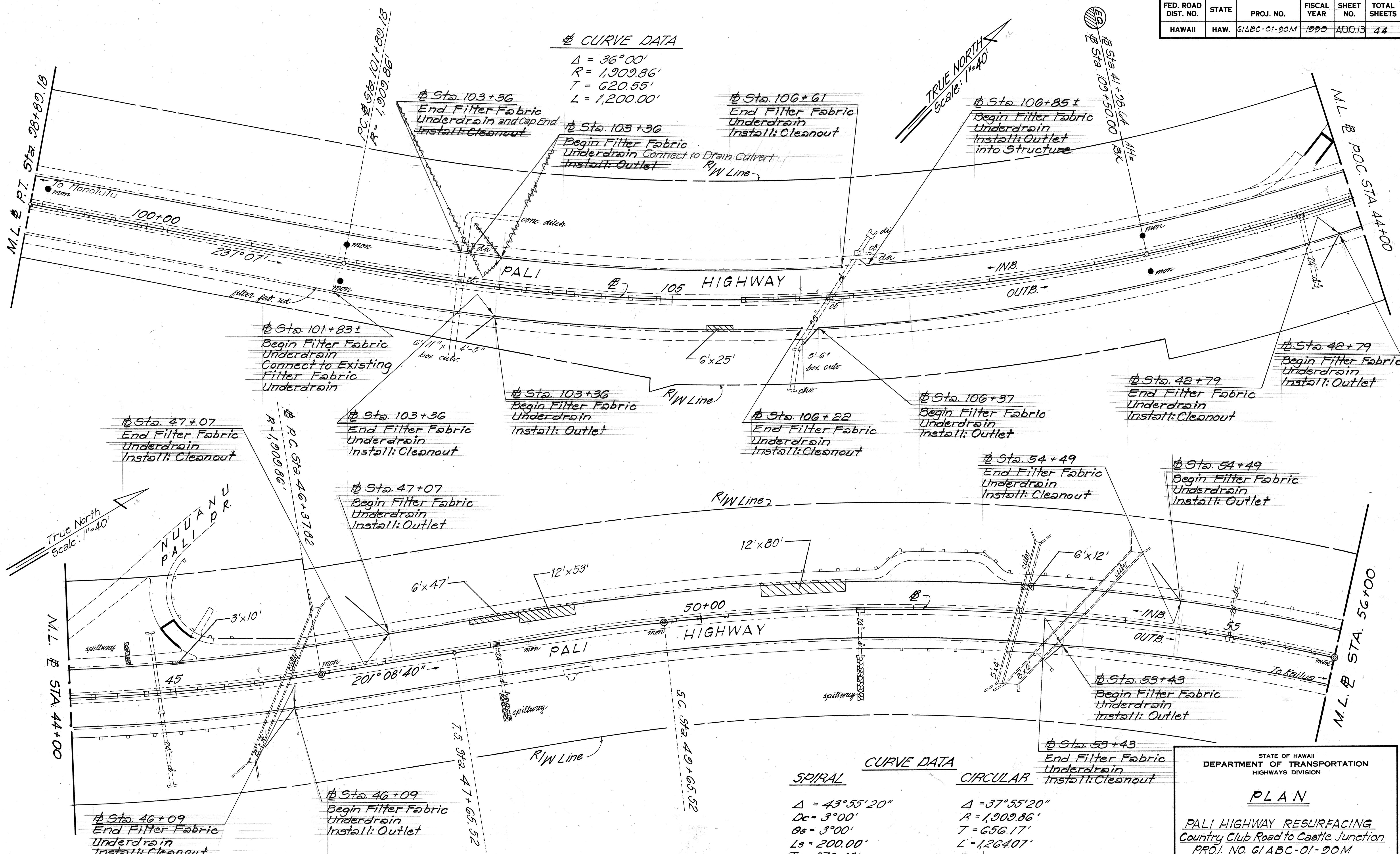
SHEET NO. 3 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	ADD.12	44



ADD.12

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	ADD.13	44



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
	CHECKED BY _____	" _____
NOTE BOOK		
NO. _____		

CURVE DATA

CIRCULAR

$$\begin{aligned}\Delta &= 43^{\circ} 55' 20'' \\ Dc &= 3^{\circ} 00' \\ Os &= 3^{\circ} 00' \\ Ls &= 200.00' \\ Ts &= 870.48' \\ Es &= 150.3'\end{aligned}$$

$$\begin{aligned}\Delta &= 37^\circ 55' 20'' \\ R &= 1909.86' \\ T &= 656.17' \\ L &= 1,264.07'\end{aligned}$$

6/15/00	Revised Underdrain Plan
DATE	REVISION

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

PLAN

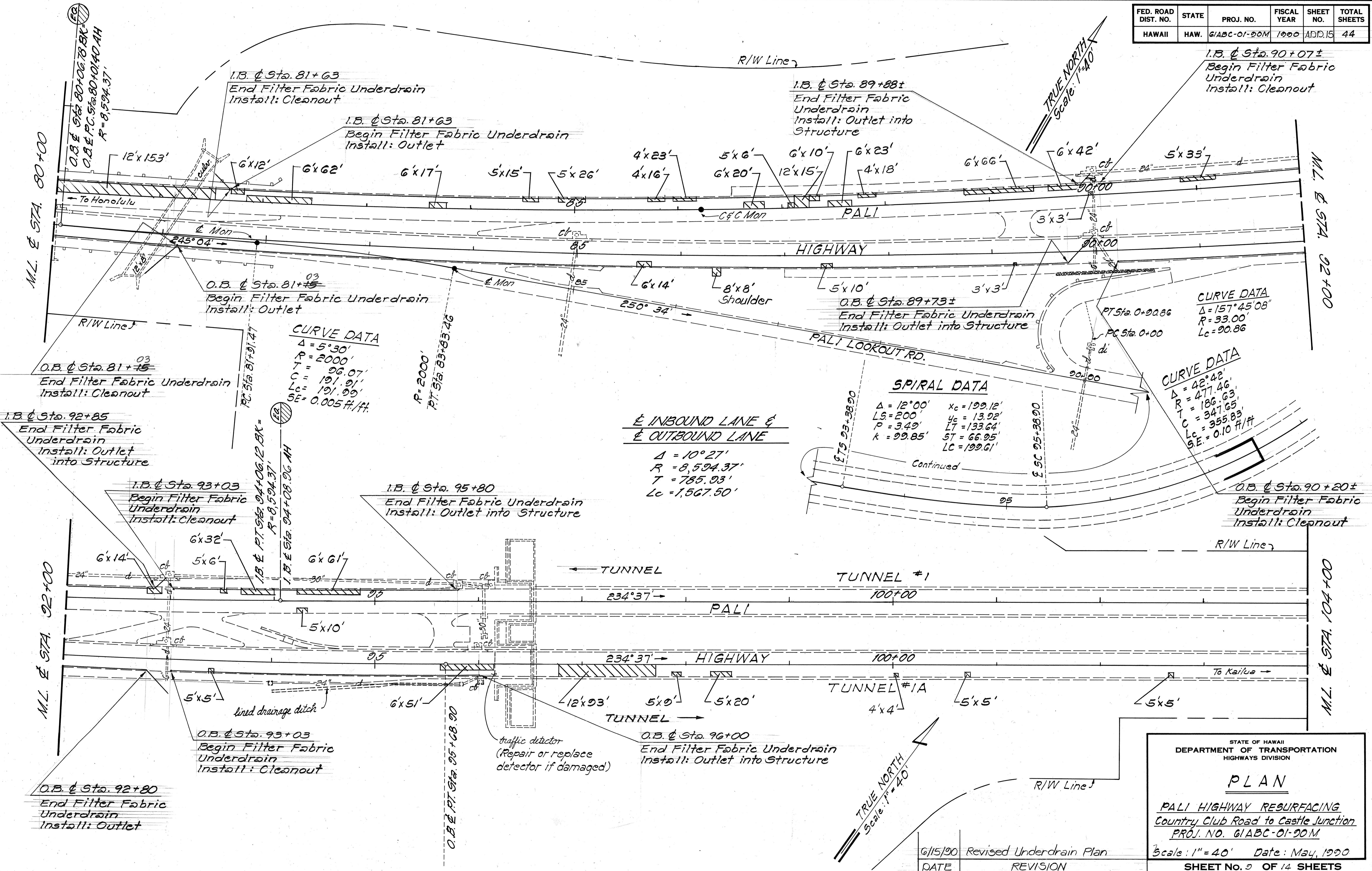
PALI HIGHWAY RESURFACING
Country Club Road to Castle Junction
PROJ. NO. G1ABC-01-90M

Scale: 1" = 40' Date: May, 1990

SHEET NO. 7 OF 14 SHEETS

ADD13

ED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	6/ABC-01-90M	1990	APP.15	44

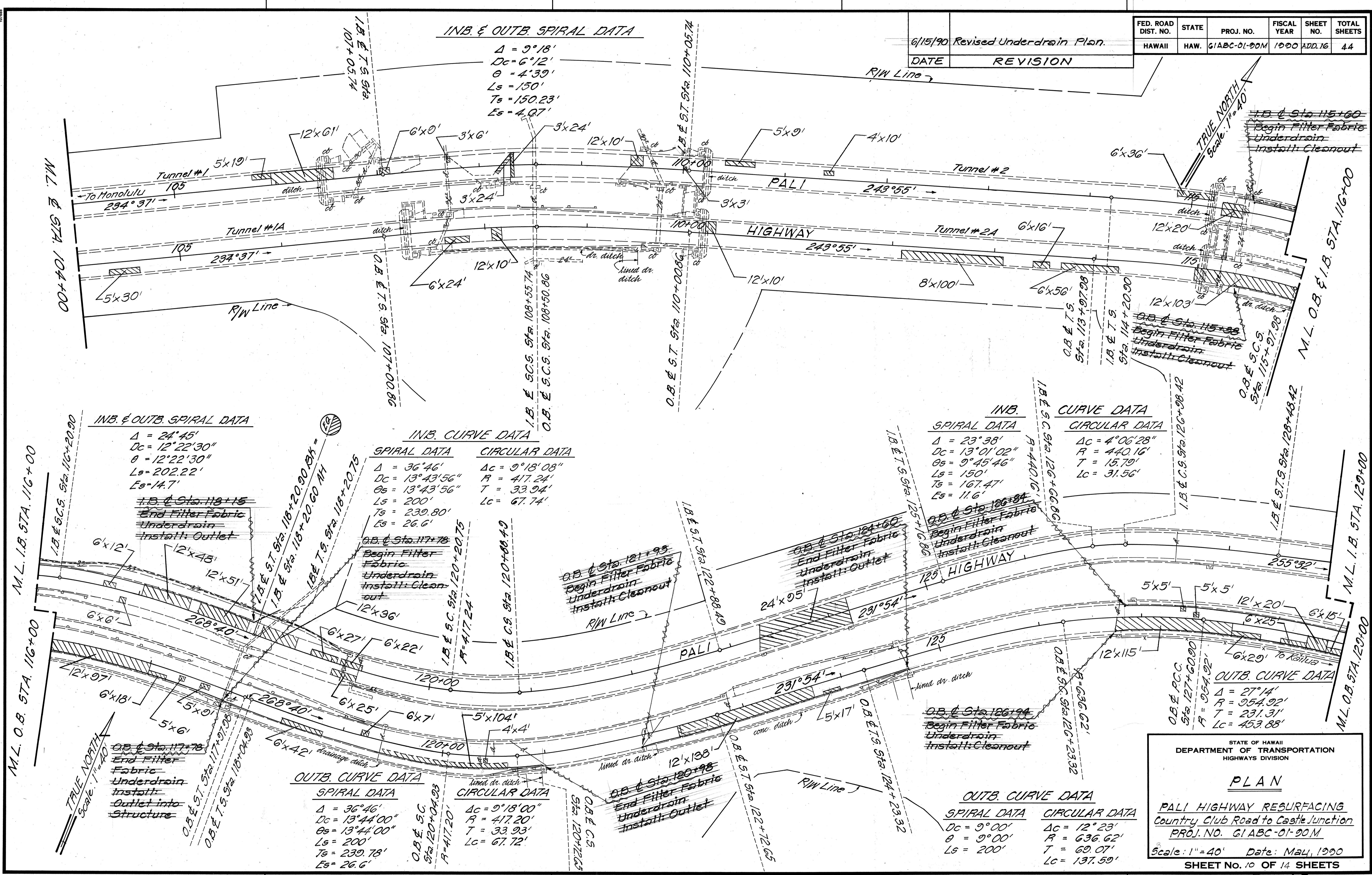


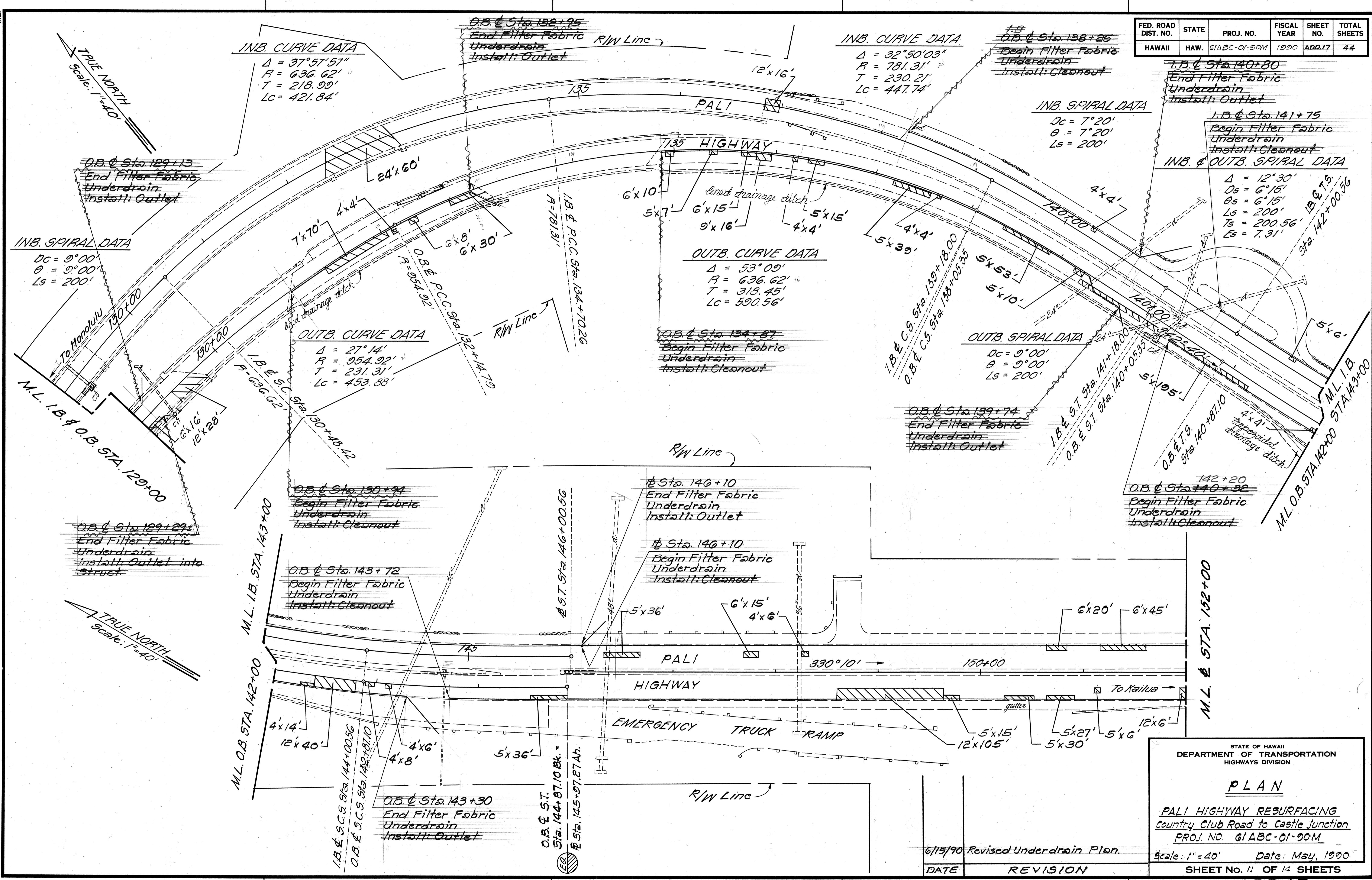
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DRAWN BY _____ TRACED BY _____	DATE _____ " _____ " _____
NOTE BOOK	DESIGNED BY _____ QUANTITIES BY _____ No. _____ CHECKED BY _____	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990 ADD. 16		44

6/15/90 Revised Underdrain Plan.

DATE	REVISION
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6/15/90 Revised Underdrain Plan.

DATE, J. -40 SHEET, May, 1950
DATE **REVISION** SHEET NO. 11 OF 14 SHEETS

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

PLAN

PALI HIGHWAY RESURFACING
Country Club Road to Castle Junction
PROJ. NO. 61ABC-01-90M

calc: $s'' = 40'$ Date: May, 1990

Date: May, 1990

SHEET NO. 11 OF 14 SHEETS

ADD 17

10768

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	ADD.18	44

M.L. B STA. 152 + 00

12'x81'

150°

mon.

To Headwall

T.S. Sta. 152+36.11

SPIRAL CURVE DATA

$\theta_s = 21^\circ 29' 09.3''$
 $L_s = 300.00'$
 $L.C. = 298.13'$
 $L.T. = 201.49'$
 $S.T. = 101.36'$
 $k = 149.30'$
 $P = 0.33'$

S.C. Sta. 155+36.11

12'x120'

12'x120'

12'x120'

12'x120'

12'x120'

12'x120'

12'x120'

12'x120'

M.L. B STA. 170+00

channel

mon.

To Kailua

138°50'

at

5'x32'

to Sta. 168+36

Begin Filter Fabric

Underdrain

Install: Cleanout

SPIRAL CURVE DATA

$\theta_s = 21^\circ 29' 09.3''$
 $L_s = 300.00'$
 $L.C. = 298.13'$
 $L.T. = 201.49'$
 $S.T. = 101.36'$
 $k = 149.30'$
 $P = 0.33'$

C.S. Sta. 165+71.87

12'x28'

12'x22'

TRUE NORTH
Scale: 1"=40'

CIRCULAR CURVE DATA

$\Delta_c = 148^\circ 21' 41.4''$
 $R = 400.00'$
 $T_c = 1411.76'$
 $L_c = 1035.76'$
 $S.E. = 0.1 H.A.$

162+00

Sta. 160+43

End Filter Fabric

Underdrain

Install: Outlet

162+00

Sta. 160+43

Begin Filter Fabric

Underdrain

Install: Cleanout

5'x18'

12'x10'

6'x10'

4'x4'

12'x11'

12'x16'

6'x39'

12'x30'

24'x74'

8'x30'

12'x16'

12'x16'

6'x39'

12'x30'

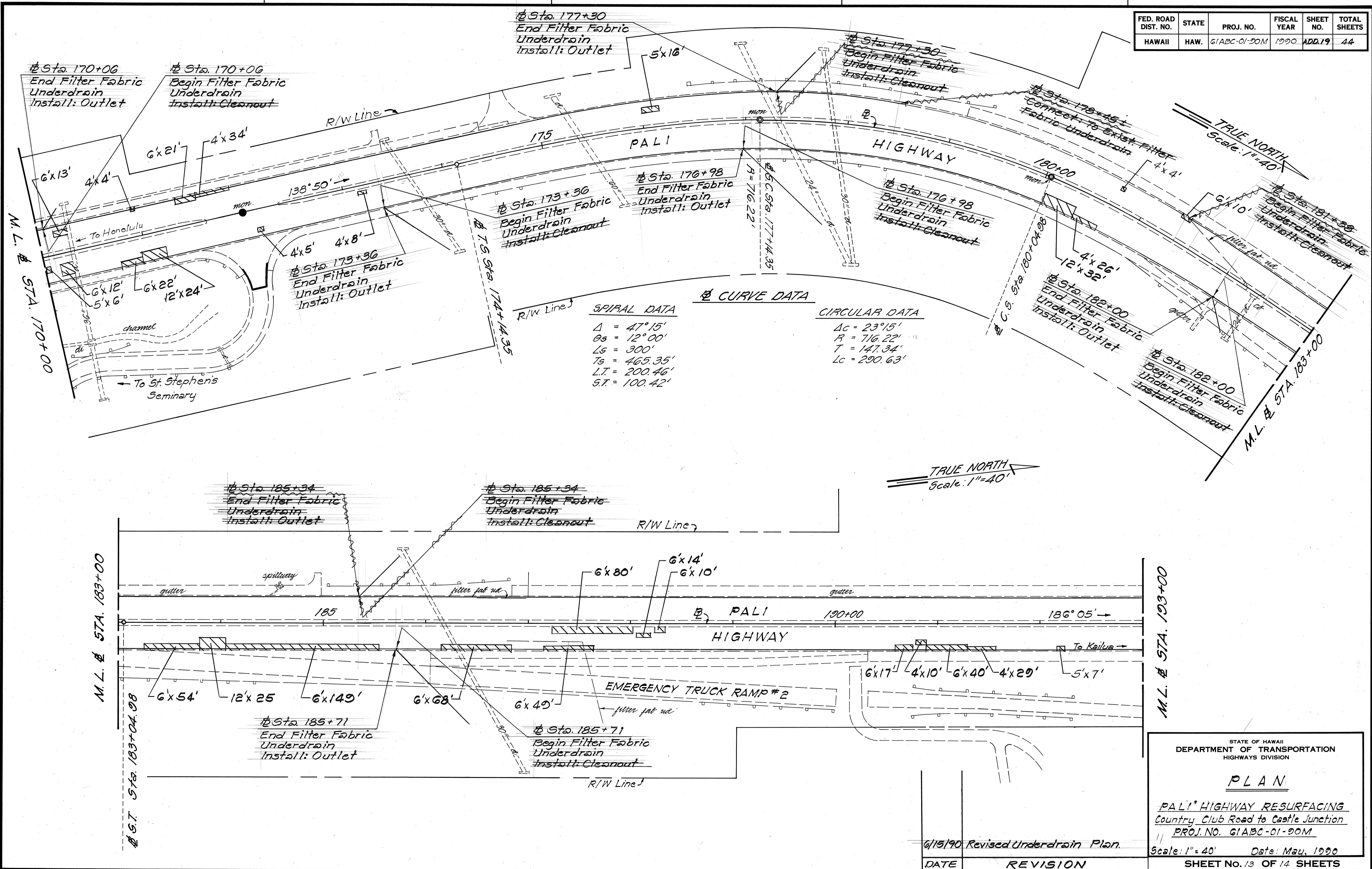
24'x74'

8'x30'

12'x16'

6'x39'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	ADD.19	44



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Road to Castle Junction
PROJ. NO. GIABC-01-90M

Scale: 1"=40' Date: May, 1990

SHEET NO. 13 OF 14 SHEETS

ADD.19

