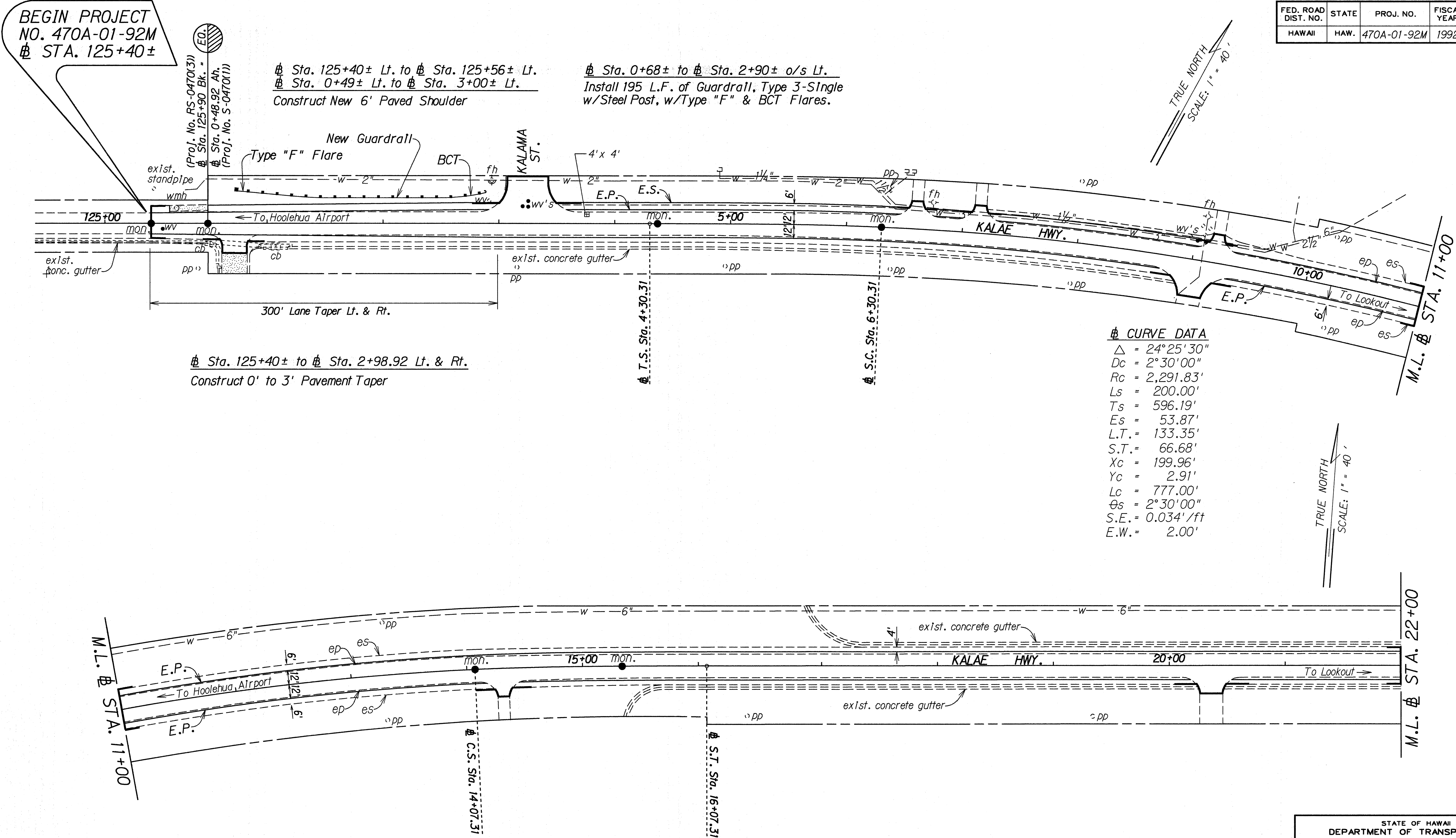


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	470A-01-92M	1992	5	16



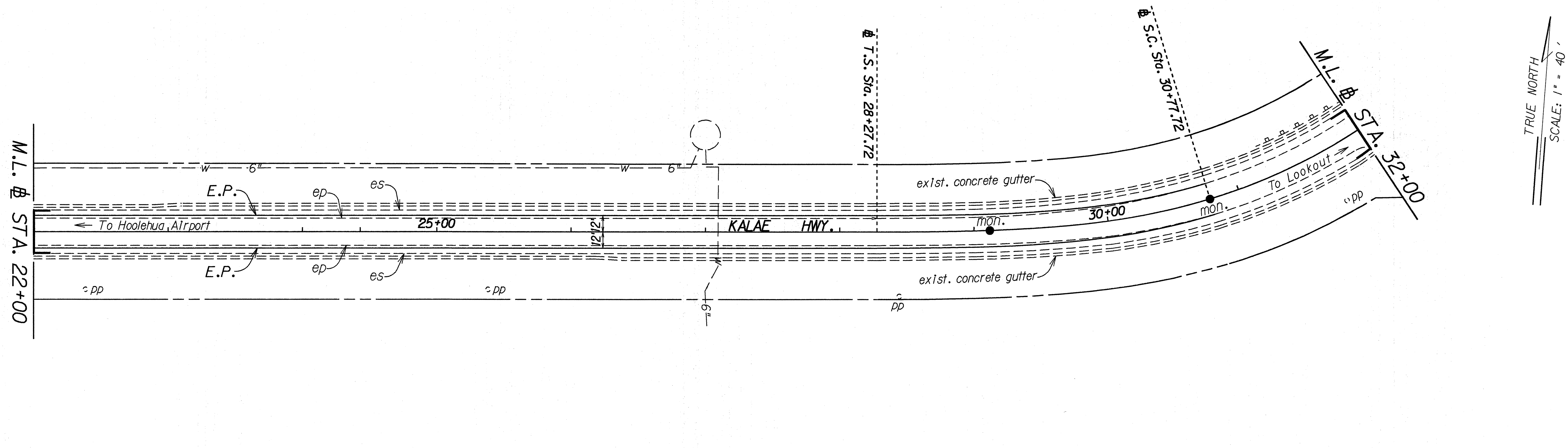
ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

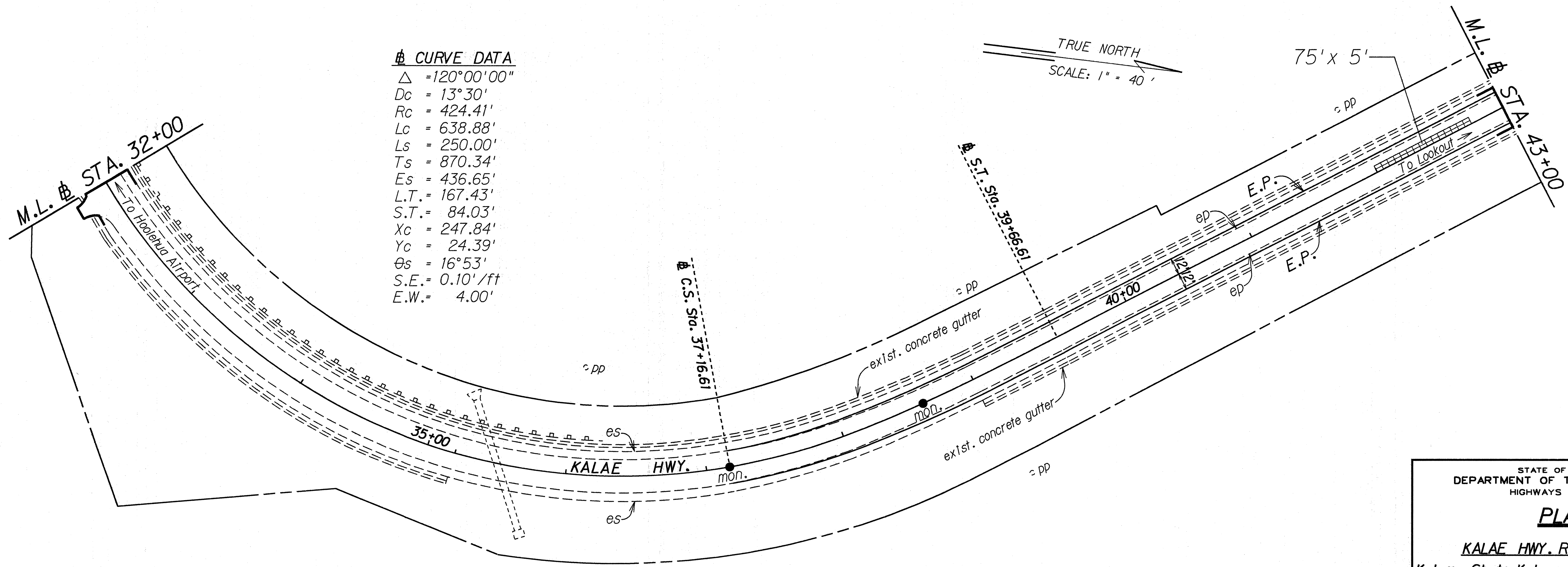
KALAE HWY. RESURFACING
Kalama St. to Kalaupapa Lookout Parking
PROJ. NO. 470A-01-92M
Scale: 1" = 40' Date: March, 1992
SHEET No. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	470A-01-92M	1992	6	16



CURVE DATA

Δ	= 120°00'00"
Dc	= 13°30'
Rc	= 424.41'
Lc	= 638.88'
Ls	= 250.00'
Ts	= 870.34'
Es	= 436.65'
L.T.	= 167.43'
S.T.	= 84.03'
Xc	= 247.84'
Yc	= 24.39'
θ_s	= 16°53'
S.E.	= 0.10' / ft
E.W.	= 4.00'



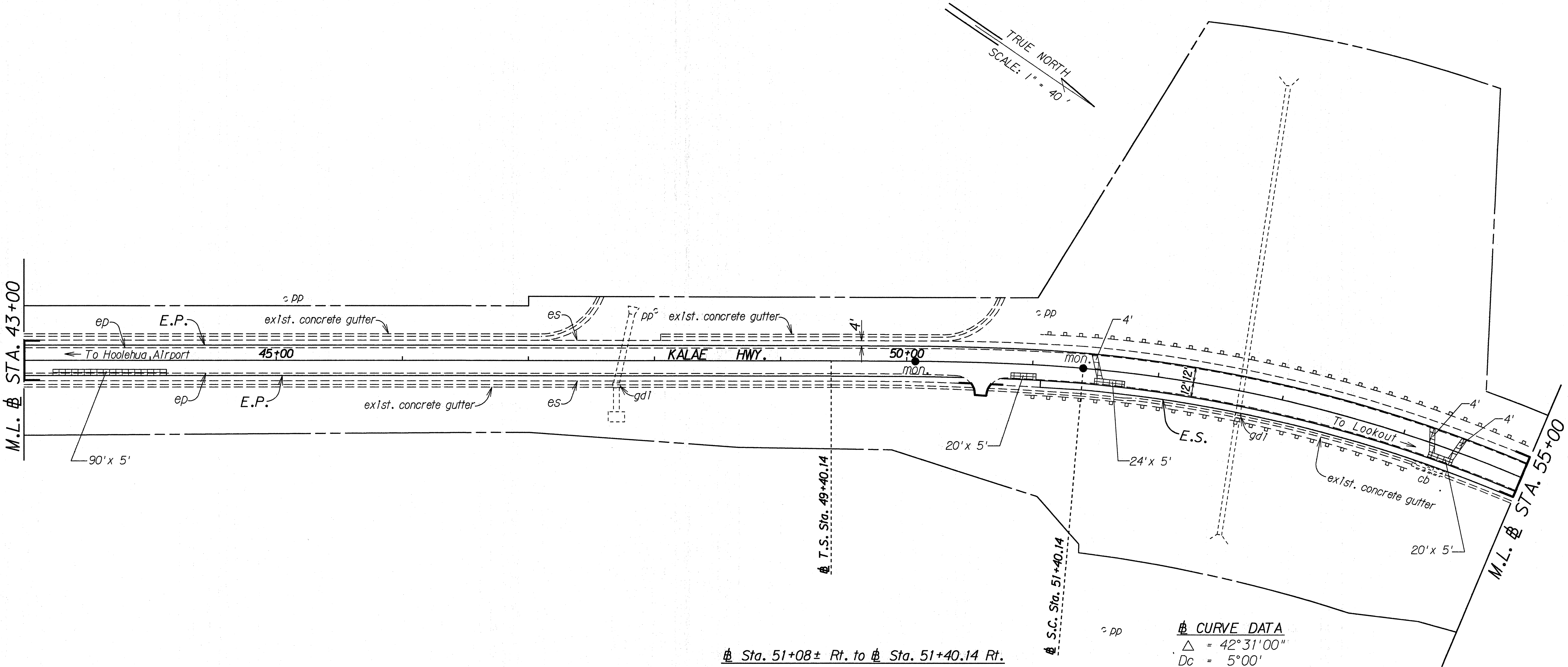
SURVEY PLOTTED BY	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO. 11/02/02	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
KALAE HWY. RESURFACING
Kalama St. to Kalaupapa Lookout Parking
PROJ. NO. 470A-01-92M
Scale: 1" = 40' Date: March, 1992
SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	470A-01-92M	1992	7	16

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
N. 11/00/93.dgn	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



Sta. 51+08± Rt. to Sta. 51+40.14 Rt.
Construct 5.05' to 5.25' New Shldr. Taper

Sta. 51+40.14 Rt. to Sta. 55+00 Rt.
Construct New 5.25' Paved Shoulder

CURVE DATA

Δ = 42°31'00"
Dc = 5°00'
Rc = 1,145.92'
Ls = 200.00'
Ts = 546.37'
Es = 85.27'
L.T. = 133.39'
S.T. = 66.72'
Xc = 199.85'
Yc = 5.81'
Lc = 650.34'
θs = 5°00'
S.E. = 0.061'/ft
E.W. = 2.50'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

KALAE HWY. RESURFACING

Kalama St. to Kalaupapa Lookout Parking

PROJ. NO. 470A-01-92M

Scale: 1" = 40' Date: March, 1992

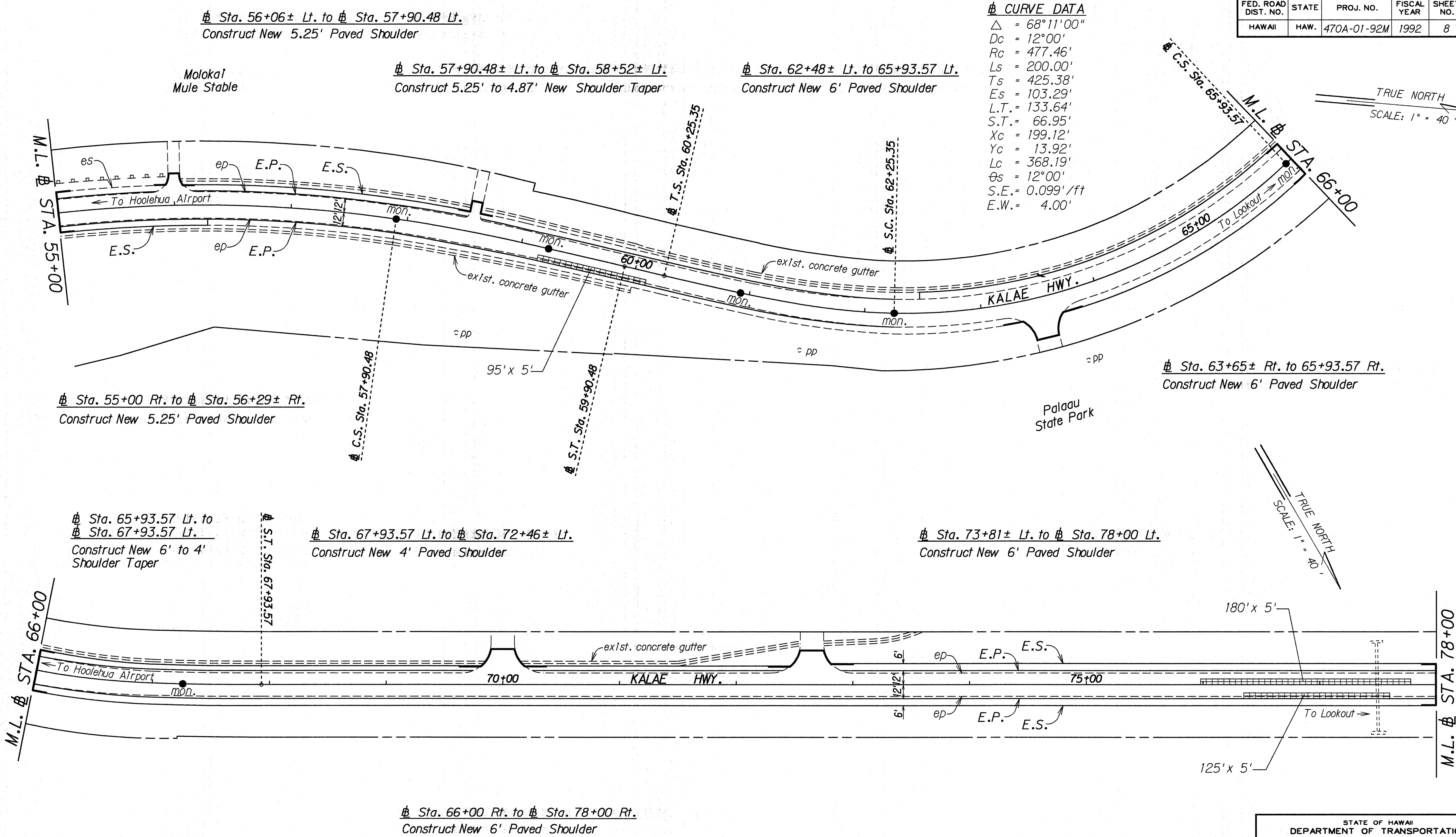
SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	470A-01-92M	1992	8	16

CURVE DATA

$\Delta = 68^{\circ}11'00''$
 $D_c = 12^{\circ}00'$
 $R_c = 477.46'$
 $L_s = 200.00'$
 $T_s = 425.38'$
 $E_s = 103.29'$
 $L.T. = 133.64'$
 $S.T. = 66.95'$
 $X_c = 199.12'$
 $Y_c = 13.92'$
 $L_c = 368.19'$
 $\theta_s = 12^{\circ}00'$
 $S.E. = 0.099'/ft$
 $E.W. = 4.00'$

TRUE NORTH
SCALE: 1" = 40'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

KALAE HWY. RESURFACING
Kalama St. to Kalapapa Lookout Parking

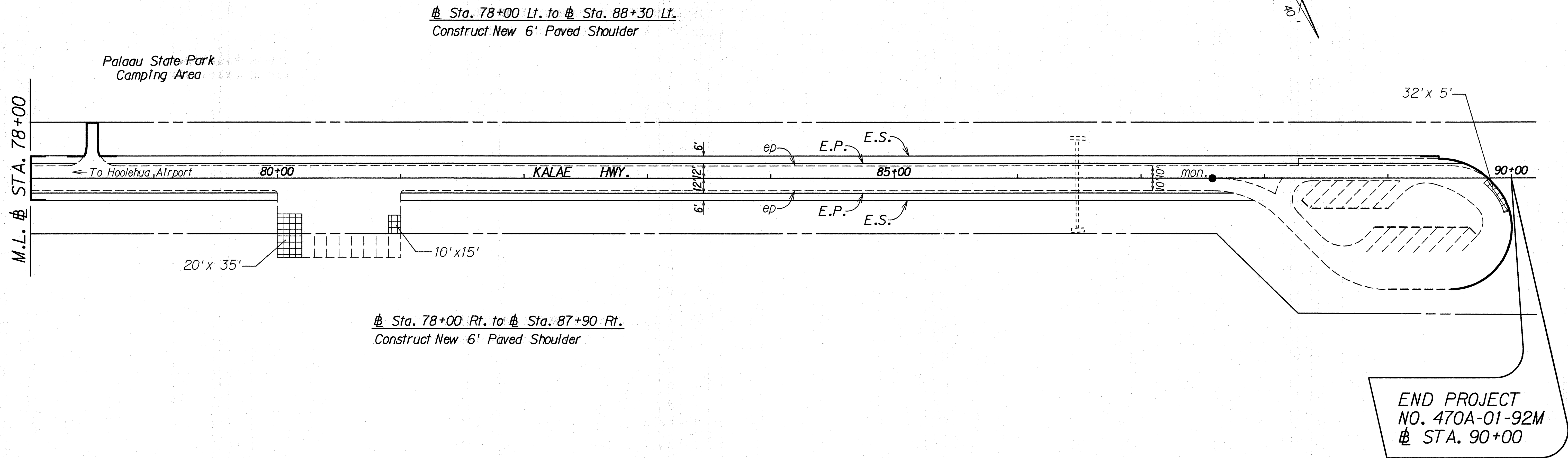
PROJ. NO. 470A-01-92M

Scale: 1" = 40' Date: March, 1992

SHEET No. 4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	470A-01-92M	1992	9	16

TRUE NORTH
SCALE: 1" = 40'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

KALAE HWY. RESURFACING

Kalama St. to Kalaupapa Lookout Parking

PROJ. NO. 470A-01-92M

Scale: 1" = 40' Date: March, 1992

SHEET No. 5 OF 5 SHEETS