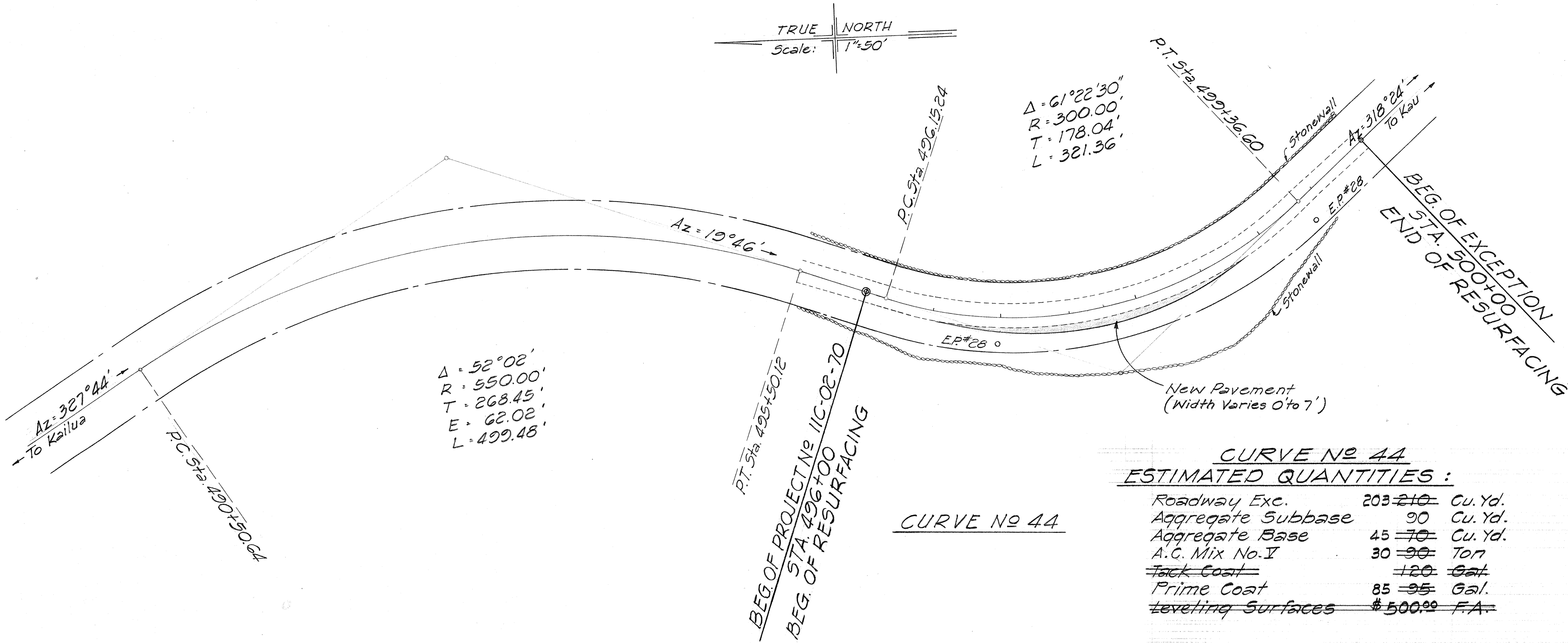
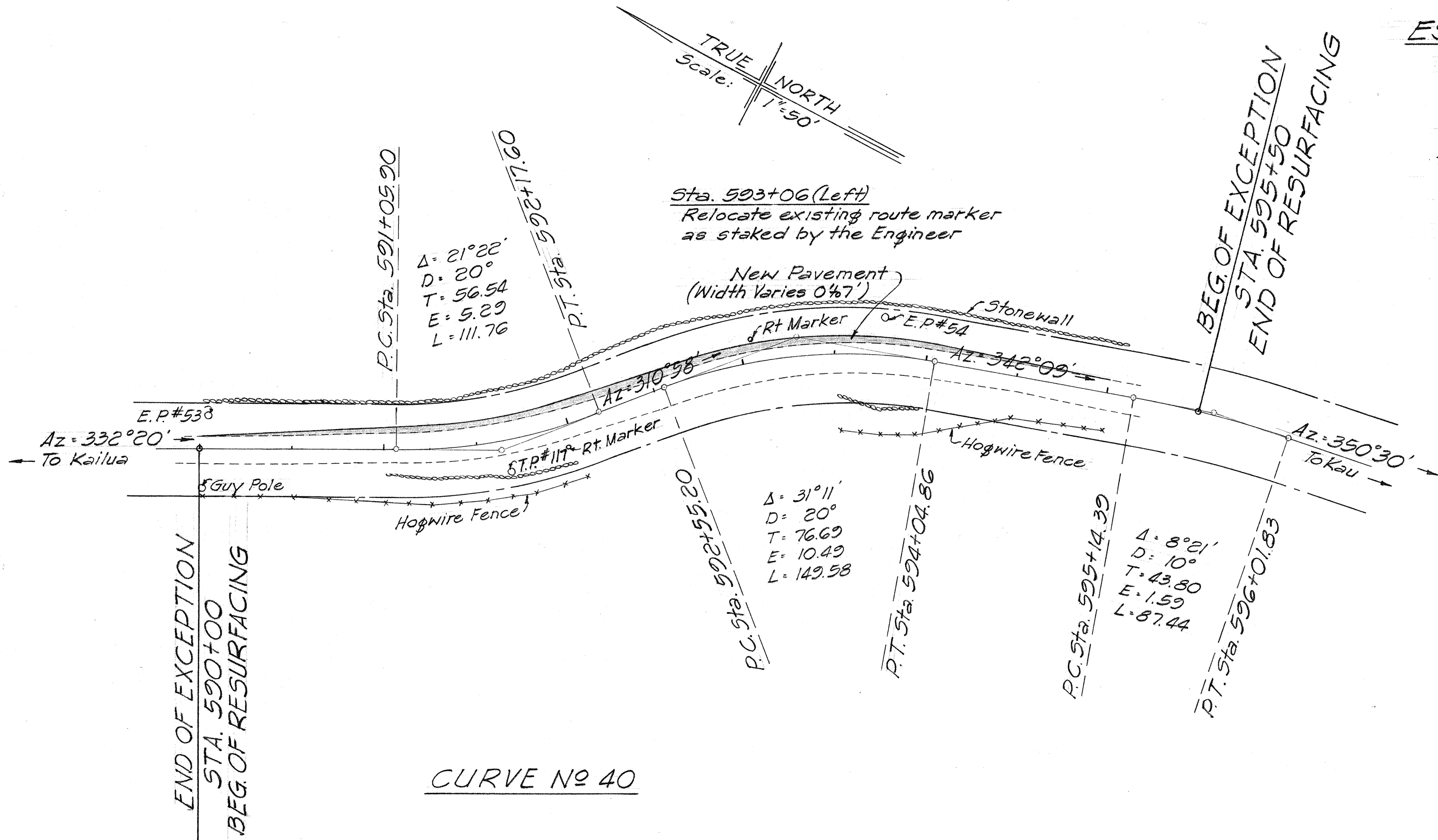


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11C-02-70	1969	3	22

CURVE NO 40
ESTIMATED QUANTITIES :

Roadway Exc.	478 480	Cu. Yd.
Aggregate Subbase	80 110	Cu. Yd.
Aggregate Base	50 45	Cu. Yd.
A.C. Mix No. I	40 14	Ton
Tack Coat	155	Gal.
Prime Coat	80 90	Gal.
Leveling Surfaces	\$ 700.00	F.A.
Reset Route Marker	1	Each



CURVE NO 44
ESTIMATED QUANTITIES :

Roadway Exc.	203 210	Cu. Yd.
Aggregate Subbase	90	Cu. Yd.
Aggregate Base	45 70	Cu. Yd.
A.C. Mix No. I	30 90	Ton
Tack Coat	120	Gal.
Prime Coat	85 95	Gal.
Leveling Surfaces	\$ 500.00	F.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOCATION PLAN
SAFETY IMPROVEMENTS ALONG
HAWAII BELT ROAD HOOKENA TO MILOLII
PROJECT NO. 11C-02-70
SOUTH KONA, HAWAII

Scale: As Shown Date: Jan. 1970

SHEET No. 1 OF 5 SHEETS

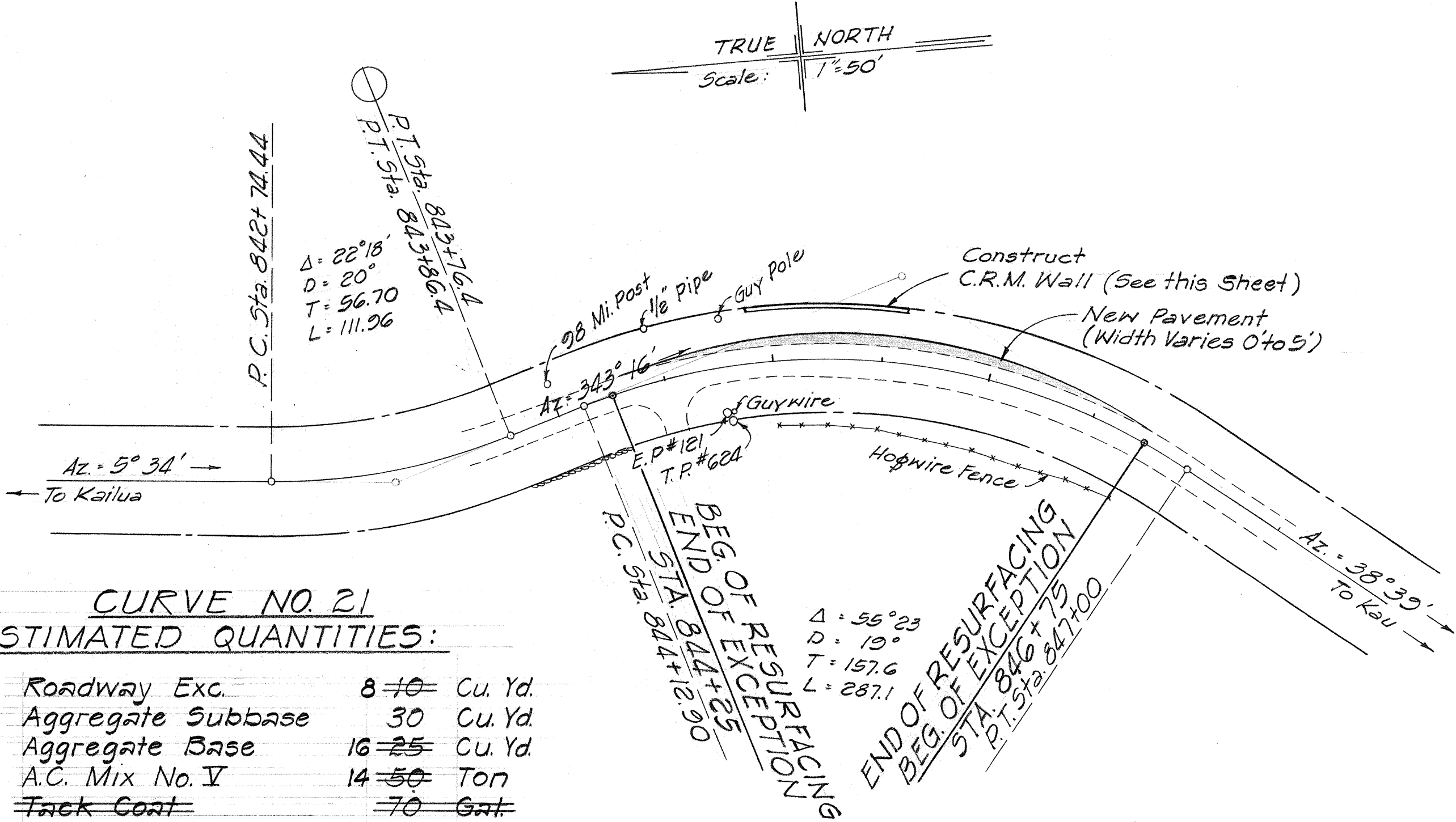
SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11C-02-70	1969	5	22

CURVE NO. 18 ESTIMATED QUANTITIES:

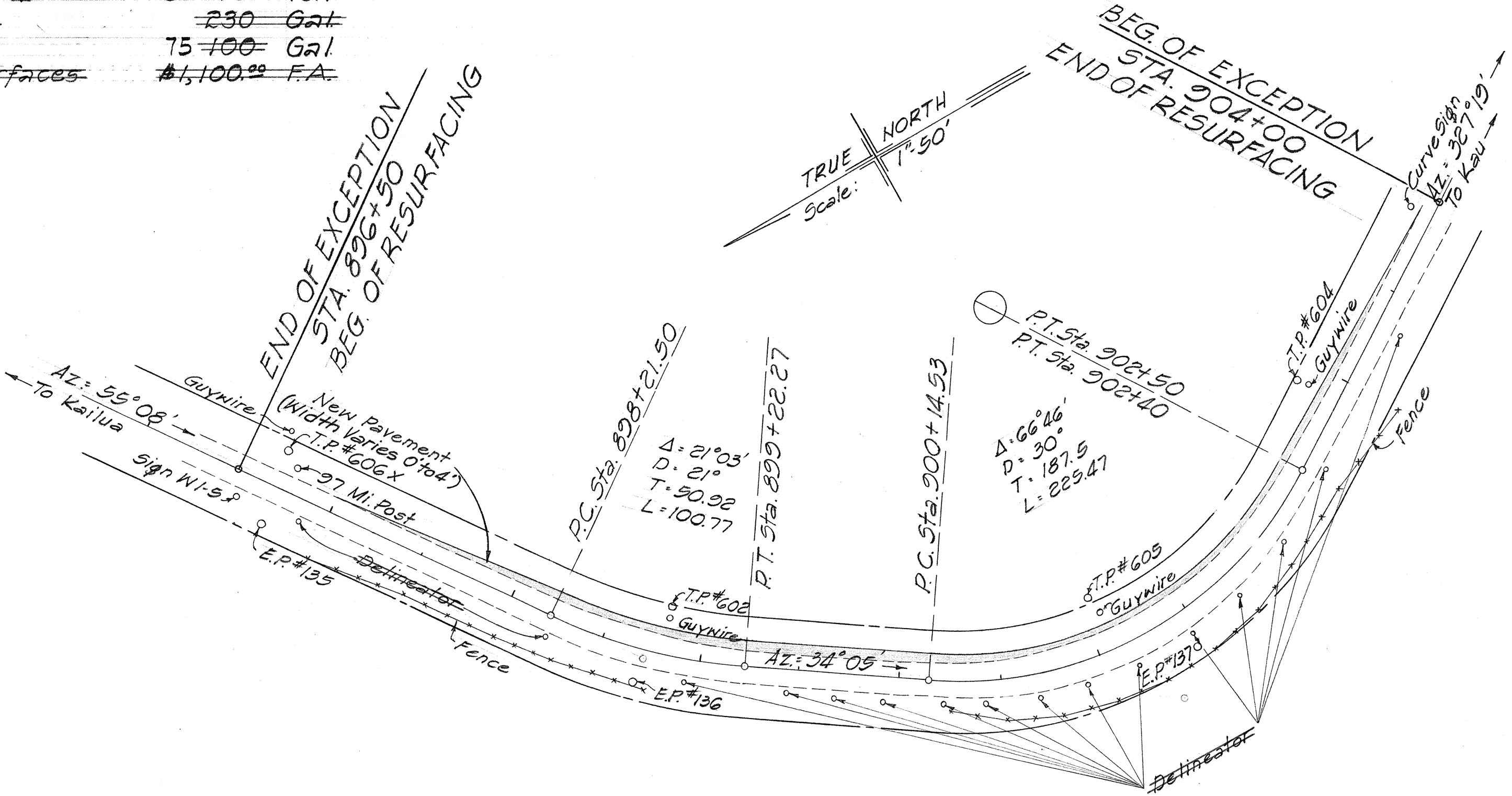
Roadway Exc.	917-880	Cu. Yd.
Aggregate Subbase	120-25	Cu. Yd.
Aggregate Base	50-75	Cu. Yd.
A.C. Mix No. V	32-70	Ton
Tack Coat	230	Gal.
Prime Coat	75-100	Gal.
Leveling Surfaces	1,100.00	F.A.



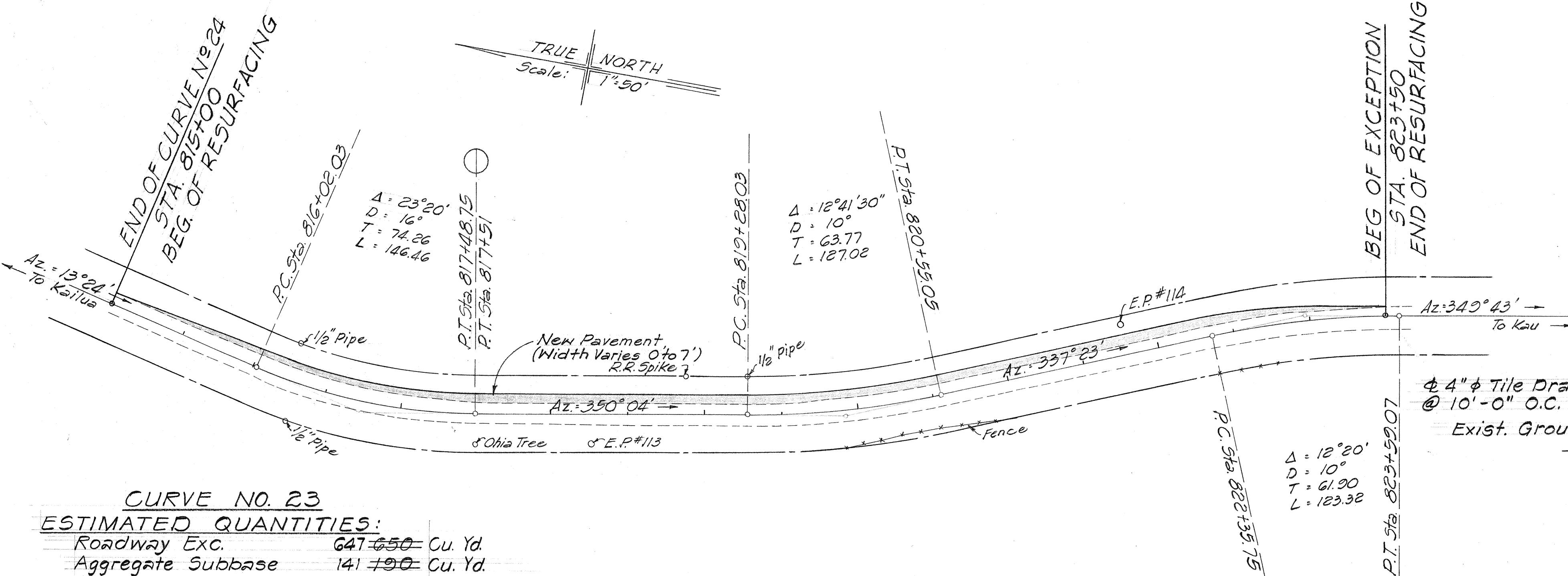
CURVE NO. 21 ESTIMATED QUANTITIES:

Roadway Exc.	8-10	Cu. Yd.
Aggregate Subbase	30	Cu. Yd.
Aggregate Base	16-25	Cu. Yd.
A.C. Mix No. V	14-50	Ton
Tack Coat	70	Gal.
Prime Coat	30-35	Gal.
Leveling Surfaces	400.00	F.A.
CRM	20	Cu. Yd.

CURVE NO. 21



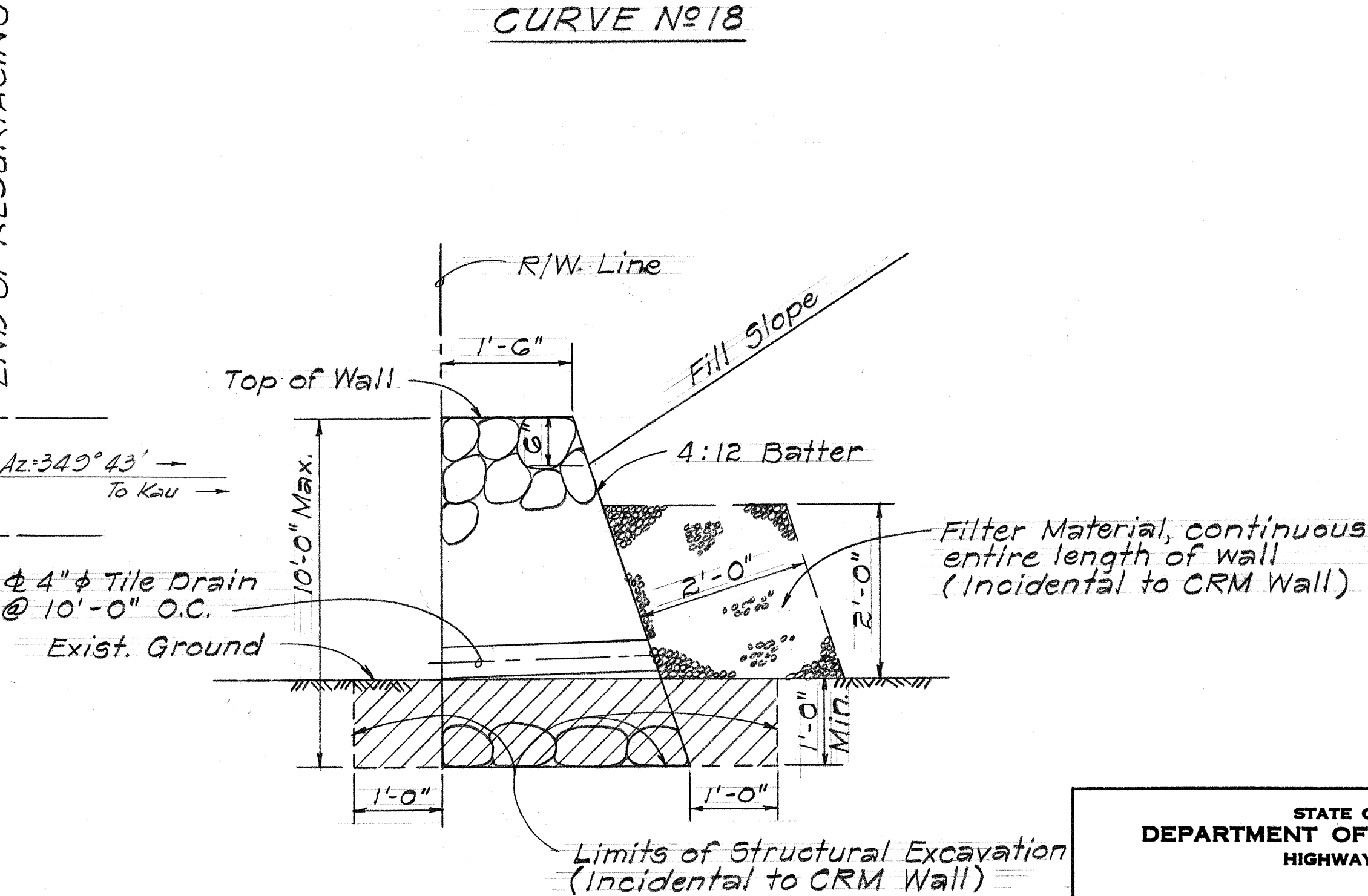
CURVE NO. 18



CURVE NO. 23 ESTIMATED QUANTITIES:

Roadway Exc.	647-650	Cu. Yd.
Aggregate Subbase	141-90	Cu. Yd.
Aggregate Base	60-50	Cu. Yd.
A.C. Mix No. V	60-90	Ton
Tack Coat	205	Gal.
Prime Coat	125-200	Gal.
Leveling Surfaces	1,200.00	F.A.

CURVE NO. 23



TYPICAL SECTION OF CRM WALL

Scale: 3/4" = 1'-0"

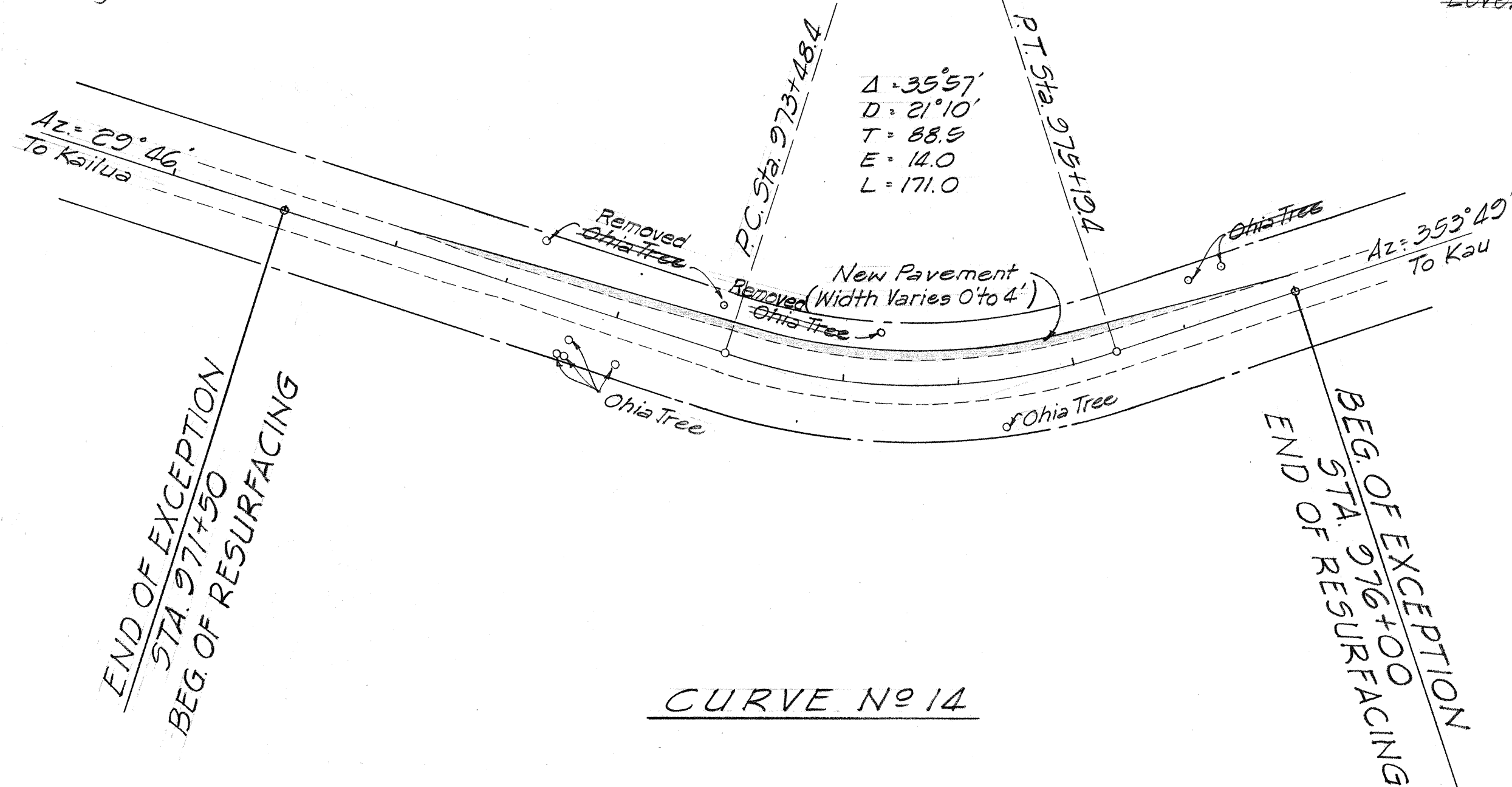
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOCATION PLAN
SAFETY IMPROVEMENTS ALONG
HAWAII BELT ROAD HOOKENA TO MILOLOI
PROJECT NO. 11C-02-70
SOUTH KONA, HAWAII
Scale: As Shown Date: Jan. 1970

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11C-02-70	1969	6	22

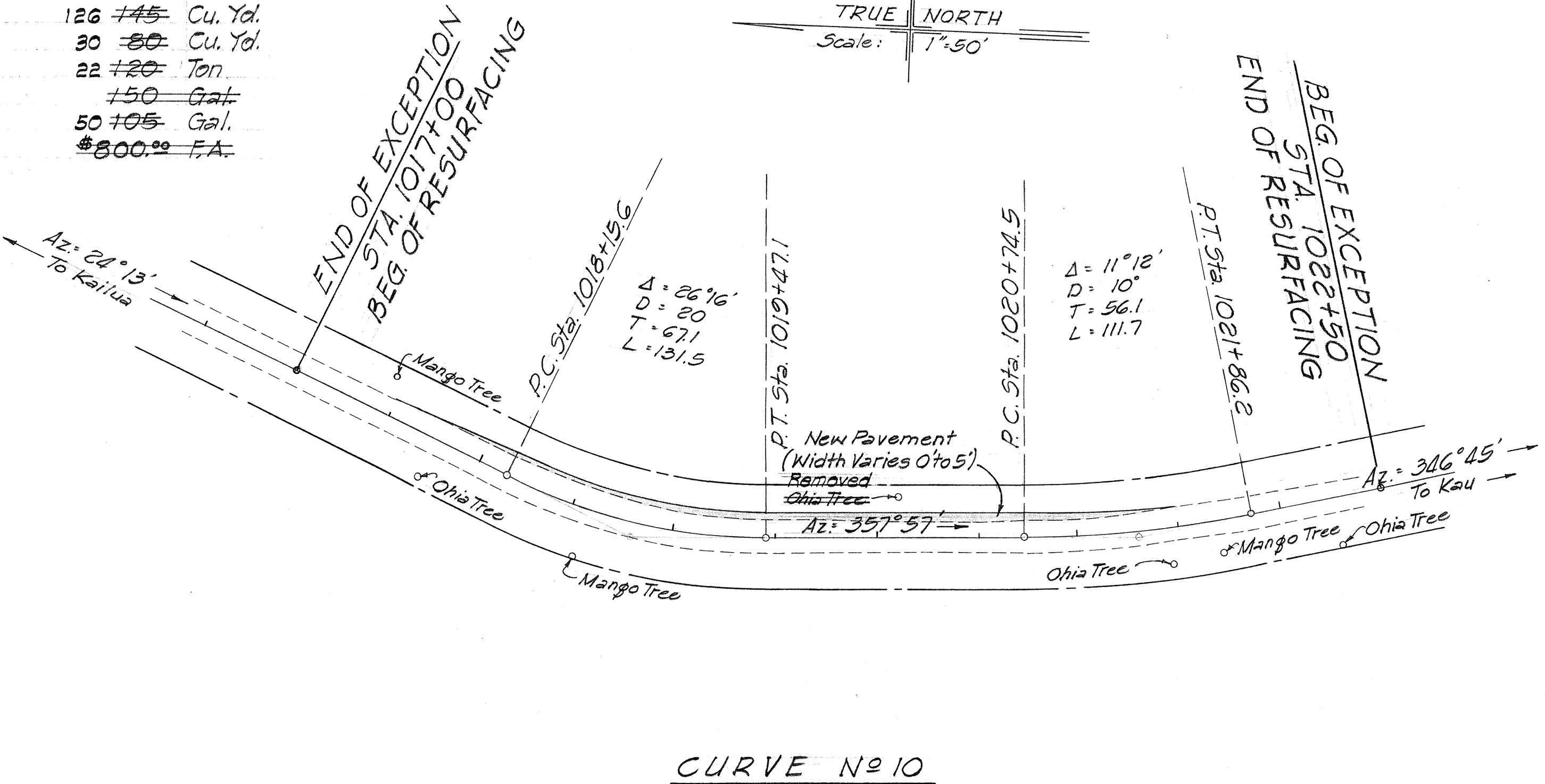
CURVE No. 14
ESTIMATED QUANTITIES

Roadway Exc.	556 560	Cu. Yd.
Aggregate Subbase	85 105	Cu. Yd.
Aggregate Base	20 40	Cu. Yd.
A.C. Mix No. V	20 35	Ton
Tack Coat	130 130	Gal.
Prime Coat	45 55	Gal.
Leveling Surfaces	\$700.00	F.A.



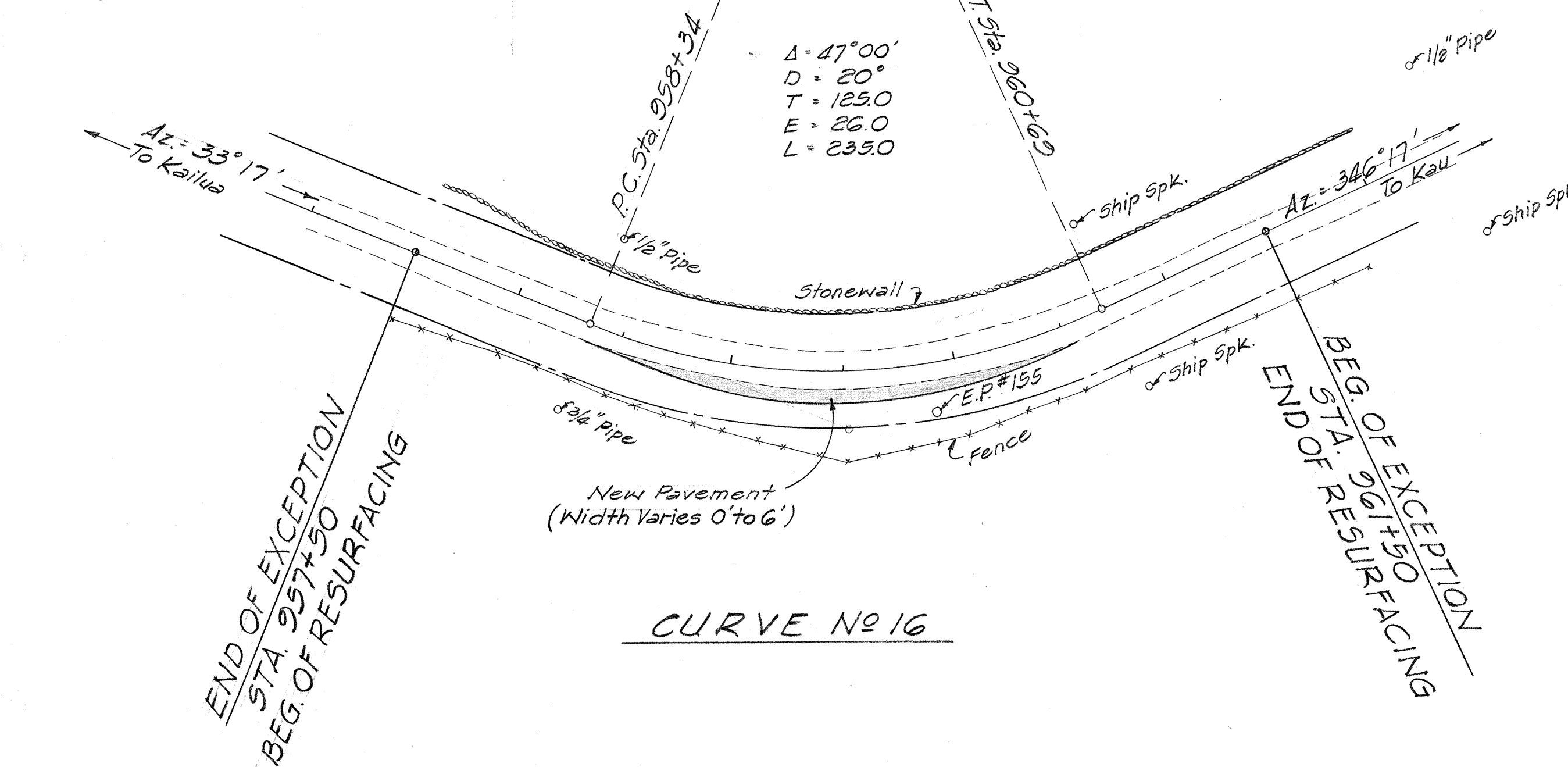
CURVE No. 10
ESTIMATED QUANTITIES

Roadway Exc.	461 420	Cu. Yd.
Aggregate Subbase	126 145	Cu. Yd.
Aggregate Base	30 50	Cu. Yd.
A.C. Mix No. V	22 20	Ton
Tack Coat	150 150	Gal.
Prime Coat	50 105	Gal.
Leveling Surfaces	\$300.00	F.A.



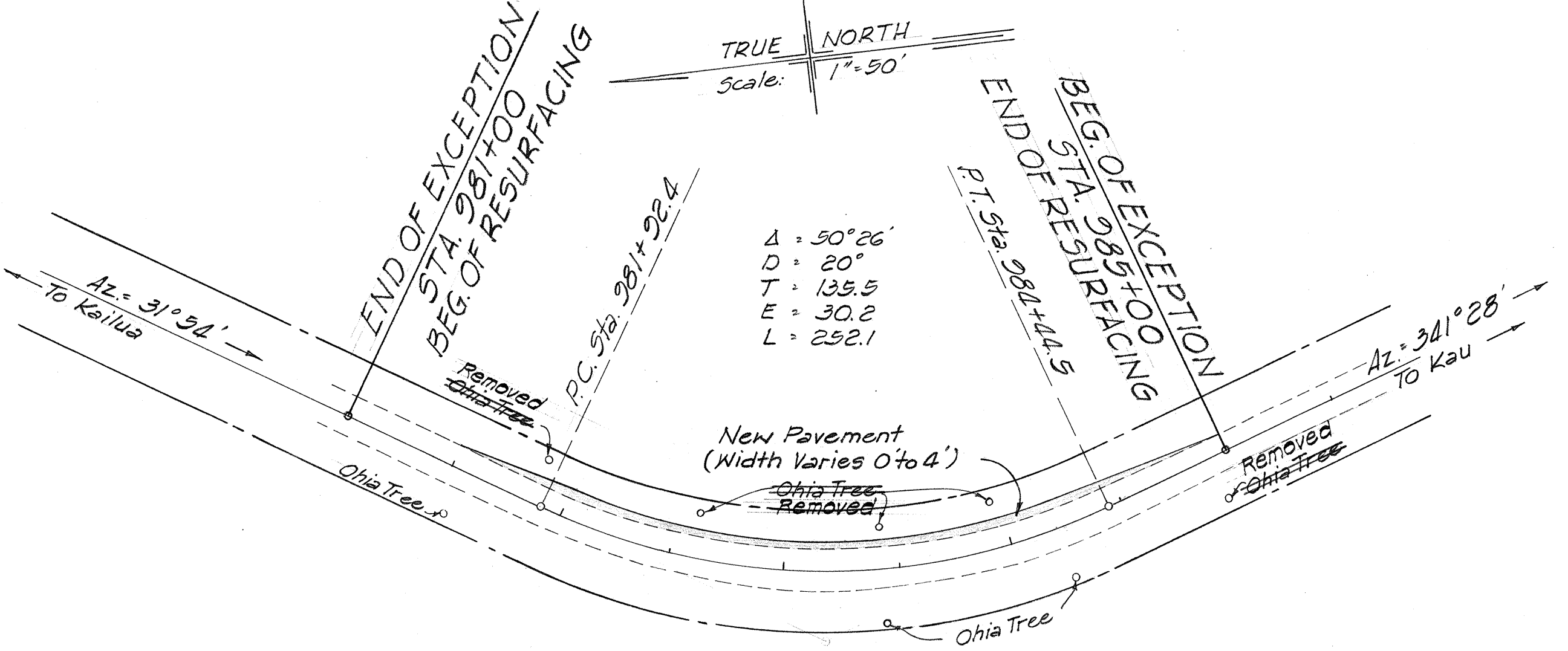
CURVE No. 16
ESTIMATED QUANTITIES

Roadway Exc.	244 250	Cu. Yd.
Aggregate Subbase	70 75	Cu. Yd.
Aggregate Base	20 20	Cu. Yd.
A.C. Mix No. V	13 18	Ton
Tack Coat	120 120	Gal.
Prime Coat	30 30	Gal.
Leveling Surfaces	\$600.00	F.A.



CURVE No. 13
ESTIMATED QUANTITIES

Roadway Exc.	496 500	Cu. Yd.
Aggregate Subbase	20 15	Cu. Yd.
Aggregate Base	20 35	Cu. Yd.
A.C. Mix No. V	17 32	Ton
Tack Coat	120 120	Gal.
Prime Coat	40 45	Gal.
Leveling Surfaces	\$600.00	F.A.



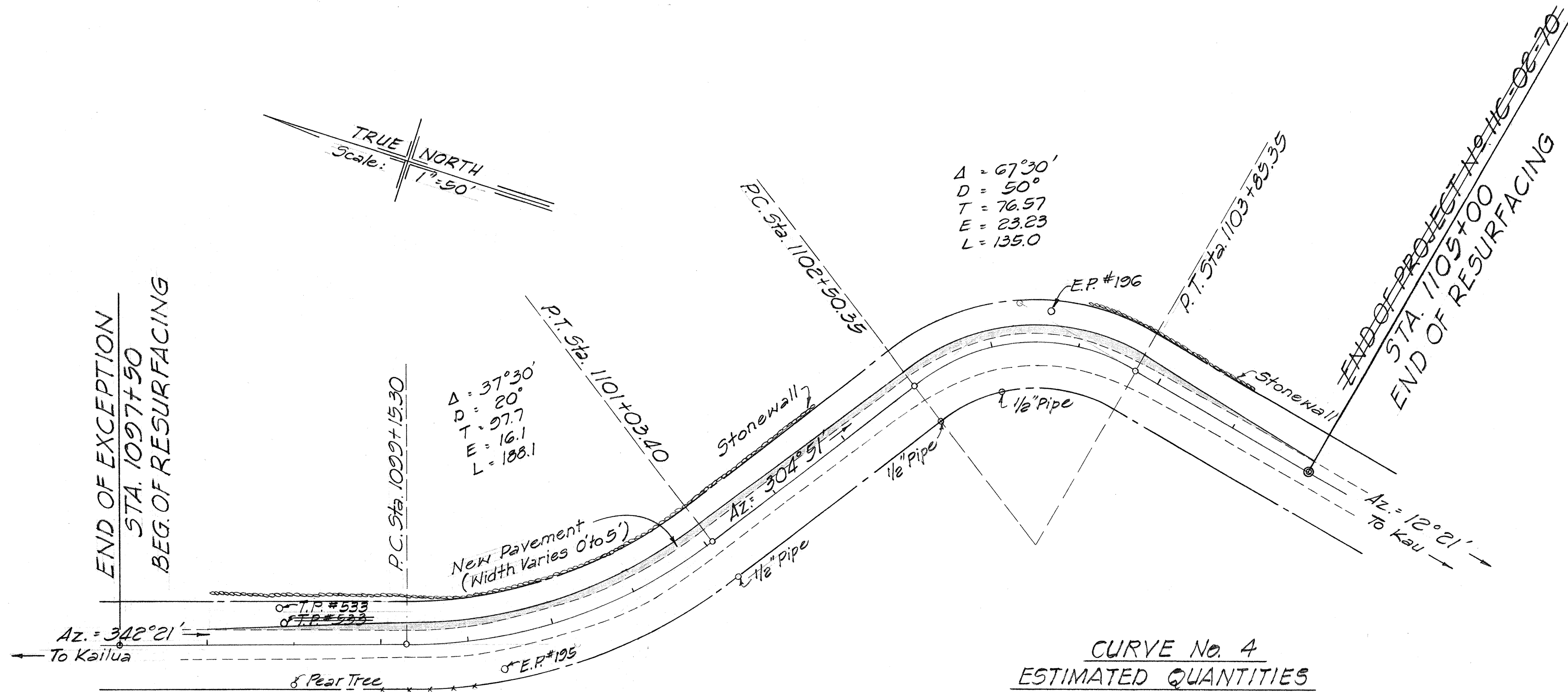
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOCATION PLAN
SAFETY IMPROVEMENTS ALONG
HAWAII BELT ROAD HOOKENA TO MILOLI
PROJECT NO. 11C-02-70
SOUTH KONA, HAWAII
Scale: As Shown Date: Jan. 1970

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11C-02-70	1969	7	22

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO.	



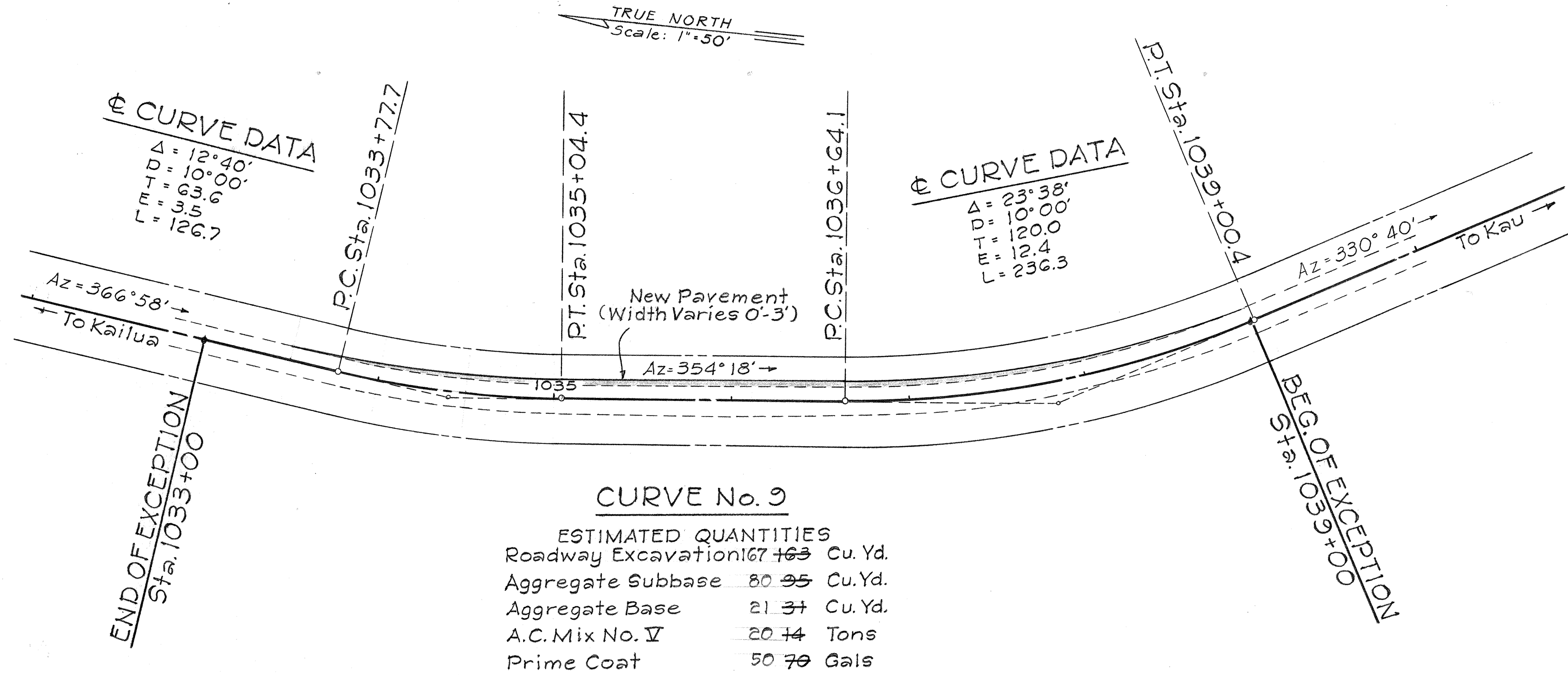
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOCATION PLAN
SAFETY IMPROVEMENTS ALONG
HAWAII BELT ROAD HOOKENA TO MILOLII
PROJECT NO. 11C-02-70
SOUTH KONA, HAWAII

Scale: As Shown
Date: Jan. 1970

SHEET No. 5 OF 5 SHEETS

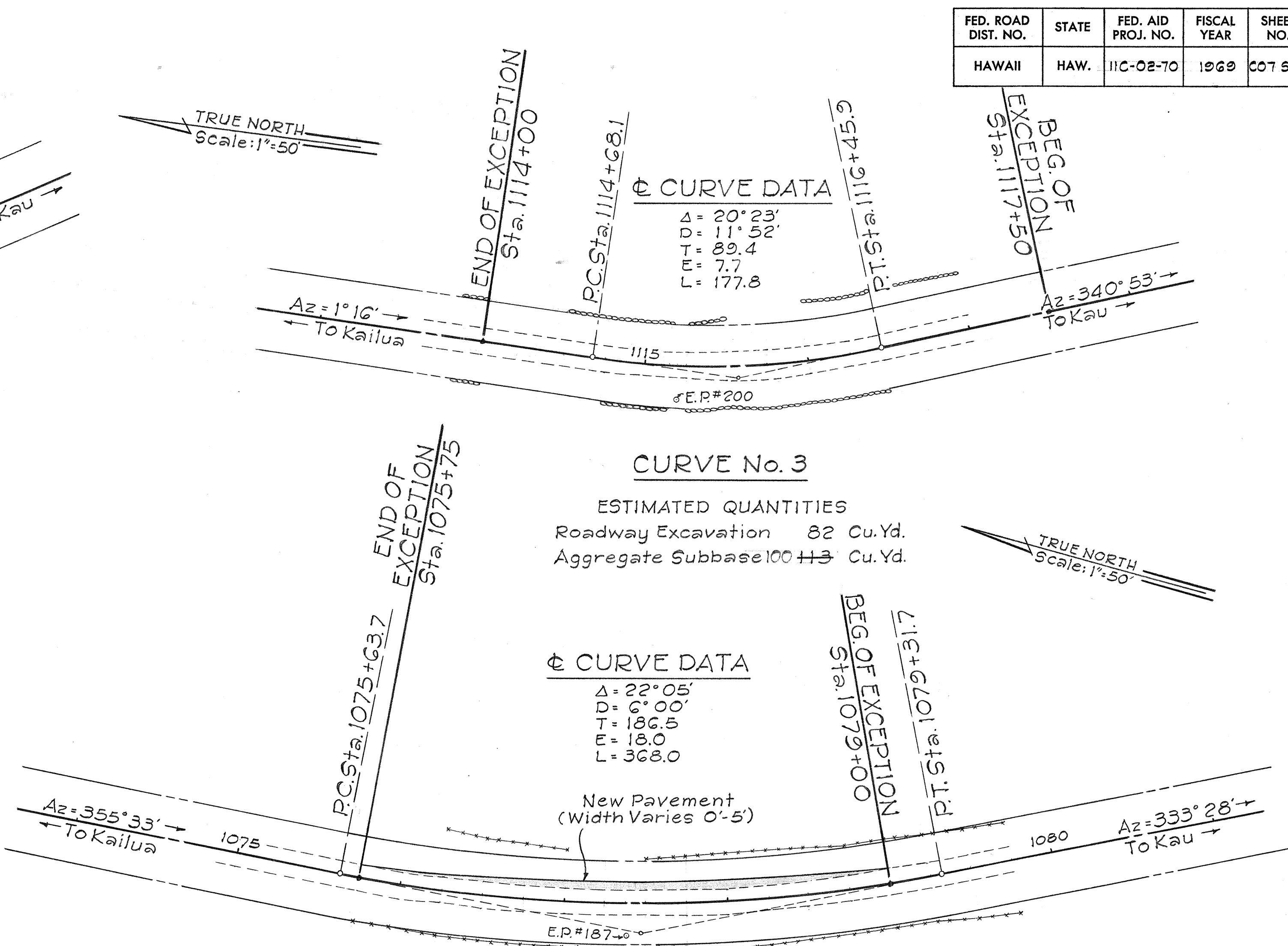
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11C-02-70	1969	007 S-1	22



CURVE No. 2

ESTIMATED QUANTITIES

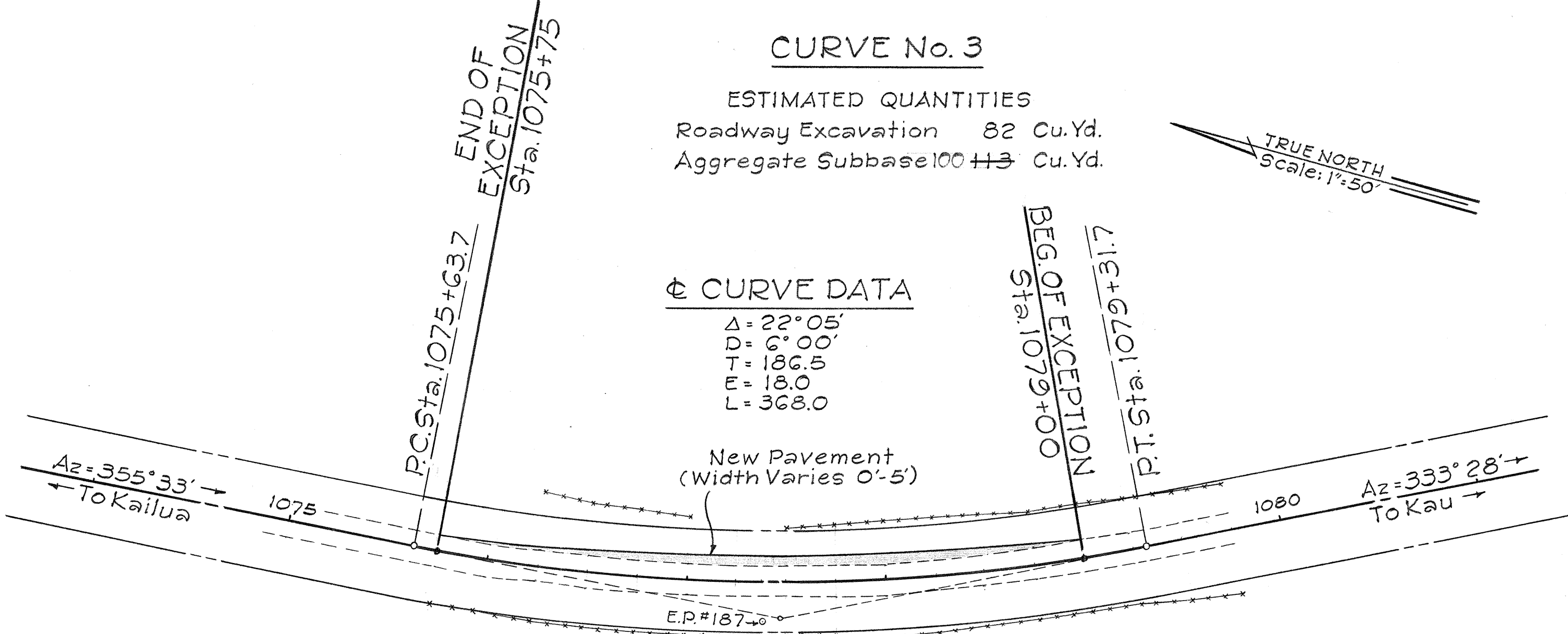
Roadway Excavation	167 163	Cu. Yd.
Aggregate Subbase	80 95	Cu. Yd.
Aggregate Base	21 37	Cu. Yd.
A.C. Mix No. V	20 74	Tons
Prime Coat	50 79	Gals



CURVE No. 3

ESTIMATED QUANTITIES

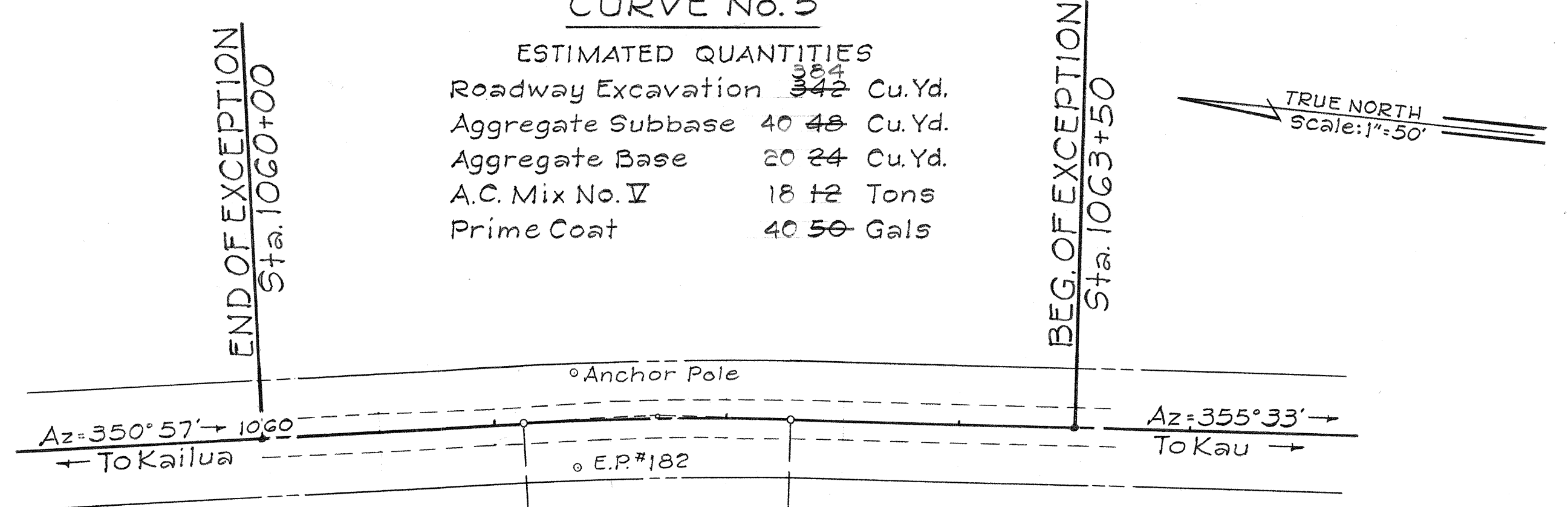
Roadway Excavation	82	Cu. Yd.
Aggregate Subbase	100 43	Cu. Yd.



CURVE No. 5

ESTIMATED QUANTITIES

Roadway Excavation	342 304	Cu. Yd.
Aggregate Subbase	40 48	Cu. Yd.
Aggregate Base	20 24	Cu. Yd.
A.C. Mix No. V	18 42	Tons
Prime Coat	40 50	Gals



CURVE No. 6

ESTIMATED QUANTITIES

Roadway Excavation	220	Cu. Yd.
Aggregate Subbase	70 94	Cu. Yd.

To Accompany Change Order No. 1

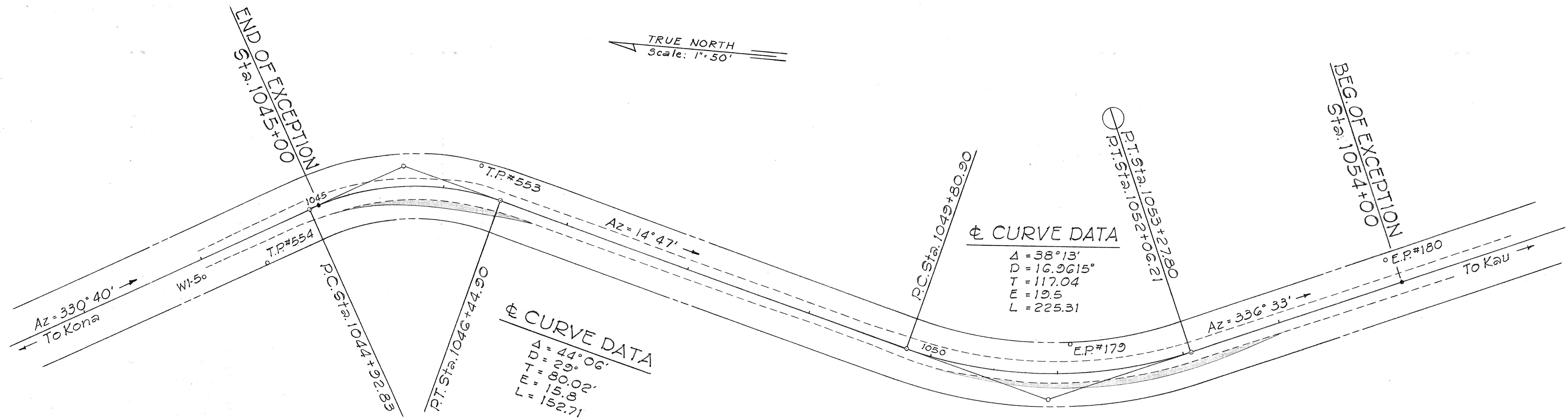
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOCATION PLAN
SAFETY IMPROVEMENTS ALONG
HAWAII BELT ROAD HOOKENA TO MILOLI
PHASE I
PROJECT No. 11C-02-70
SOUTH KONA, HAWAII
Scale: As Shown Date: July 1970

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	NO.
NOTE BOOK	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11C-02-70	1969	C07S-2	22



⊕ CURVE DATA
 $\Delta = 44^{\circ}06'$
 $D = 29^{\circ}02'$
 $T = 80.02'$
 $E = 15.8'$
 $L = 152.71'$

⊕ CURVE DATA
 $\Delta = 38^{\circ}13'$
 $D = 16.9615'$
 $T = 117.04'$
 $E = 19.5'$
 $L = 225.31'$

CURVE No. 8
 ESTIMATED QUANTITIES
 Roadway Excavation 5756 Cu. Yd.
 Aggregate Subbase 44790 Cu. Yd.
 Aggregate Base 16 Cu. Yd.
 A.C. Mix No. V 68 Tons
 Prime Coat 18 Gals

CURVE No. 7
 ESTIMATED QUANTITIES
 Roadway Excavation 1631 Cu. Yd.
 Aggregate Subbase 9970 Cu. Yd.
 Aggregate Base 3216 Cu. Yd.
 A.C. Mix No. V 4217 Tons
 Prime Coat 3630 Gals

⊕ CURVE DATA
 $\Delta = 16^{\circ}34'$
 $D = 10^{\circ}$
 $T = 63.4'$
 $E = 6.1'$
 $L = 166.5'$

⊕ CURVE DATA
 $\Delta = 30^{\circ}25'$
 $D = 12.96027'$
 $T = 63.719'$
 $E = 27.83'$

⊕ CURVE DATA
 $\Delta = 12^{\circ}00'$
 $D = 10^{\circ}$
 $T = 60.2'$
 $E = 3.2'$
 $L = 120.0'$

CURVE No. 2
 ESTIMATED QUANTITIES
 Roadway Excavation 11 Cu. Yd.
 Aggregate Subbase 91 Cu. Yd.

CURVE No. 1
 ESTIMATED QUANTITIES
 Roadway Excavation 440155 Cu. Yd.
 Aggregate Subbase 40798 Cu. Yd.
 Aggregate Base 4525 Cu. Yd.
 A.C. Mix No. V 4812 Tons
 Prime Coat 5350 Gals

CURVE No. 11
 ESTIMATED QUANTITIES
 Roadway Excavation 585 Cu. Yd.
 Aggregate Subbase 208200 Cu. Yd.
 Aggregate Base 7745 Cu. Yd.
 A.C. Mix V 3235 Tons
 Prime Coat 3270 Gals

⊕ CURVE DATA
 $\Delta = 39^{\circ}30'$
 $D = 12.9027'$
 $T = 103.36'$
 $E = 18.0'$
 $L = 198.47'$

To Accompany Contract
 Change Order No. 1.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

LOCATION PLAN

SAFETY IMPROVEMENTS ALONG
 HAWAII BELT ROAD HOOKENA TO MILOLII
 PHASE I
 PROJECT No. 11C-02-70
 SOUTH KONA, HAWAII

Scale: As Shown Date: July 1970

SHEET No. 1 OF 9 SHEETS

ORIGINAL PLAN	DATE 3/1/70
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO. 1023	