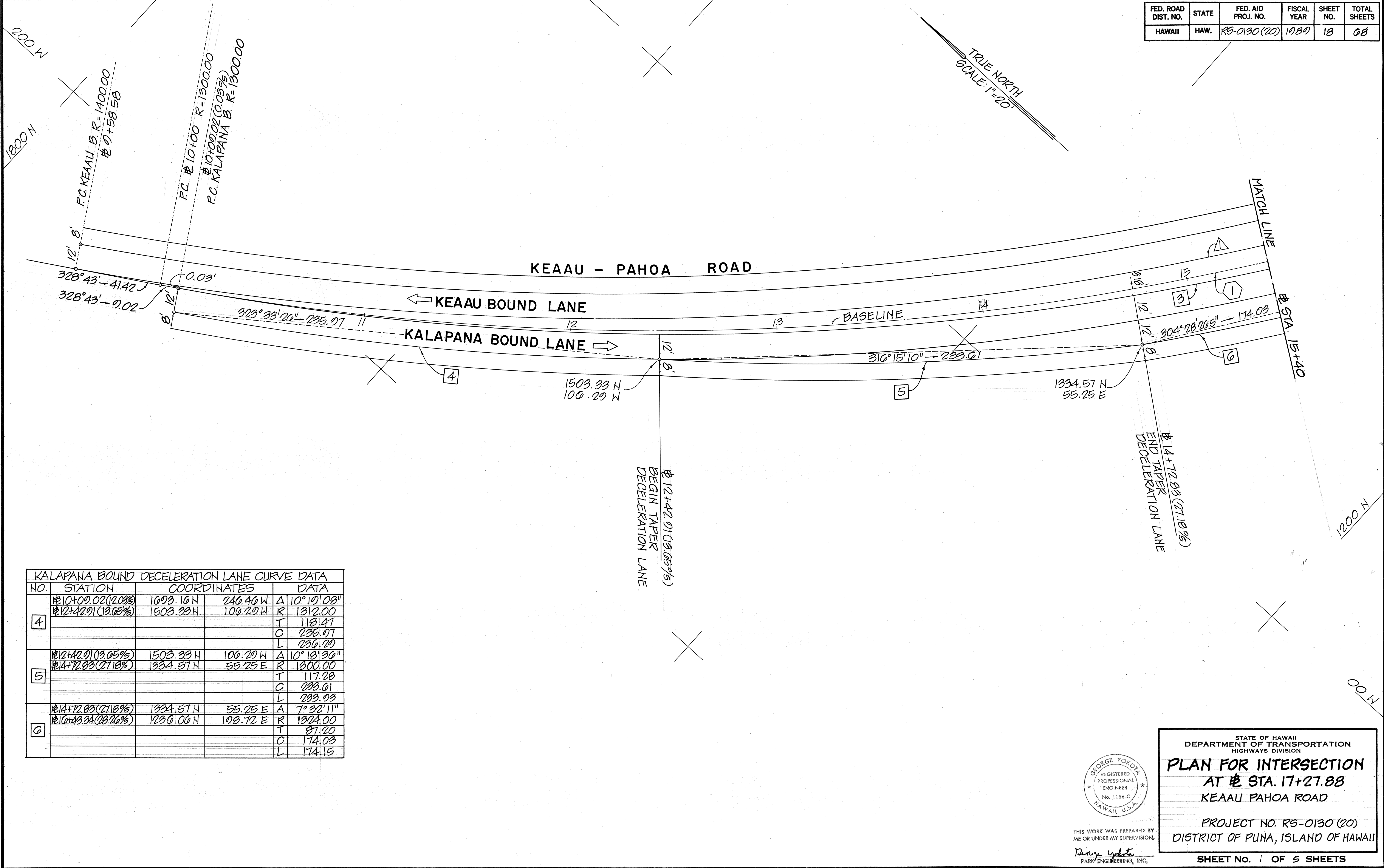


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	R5-0130 (20)	1980	18	08



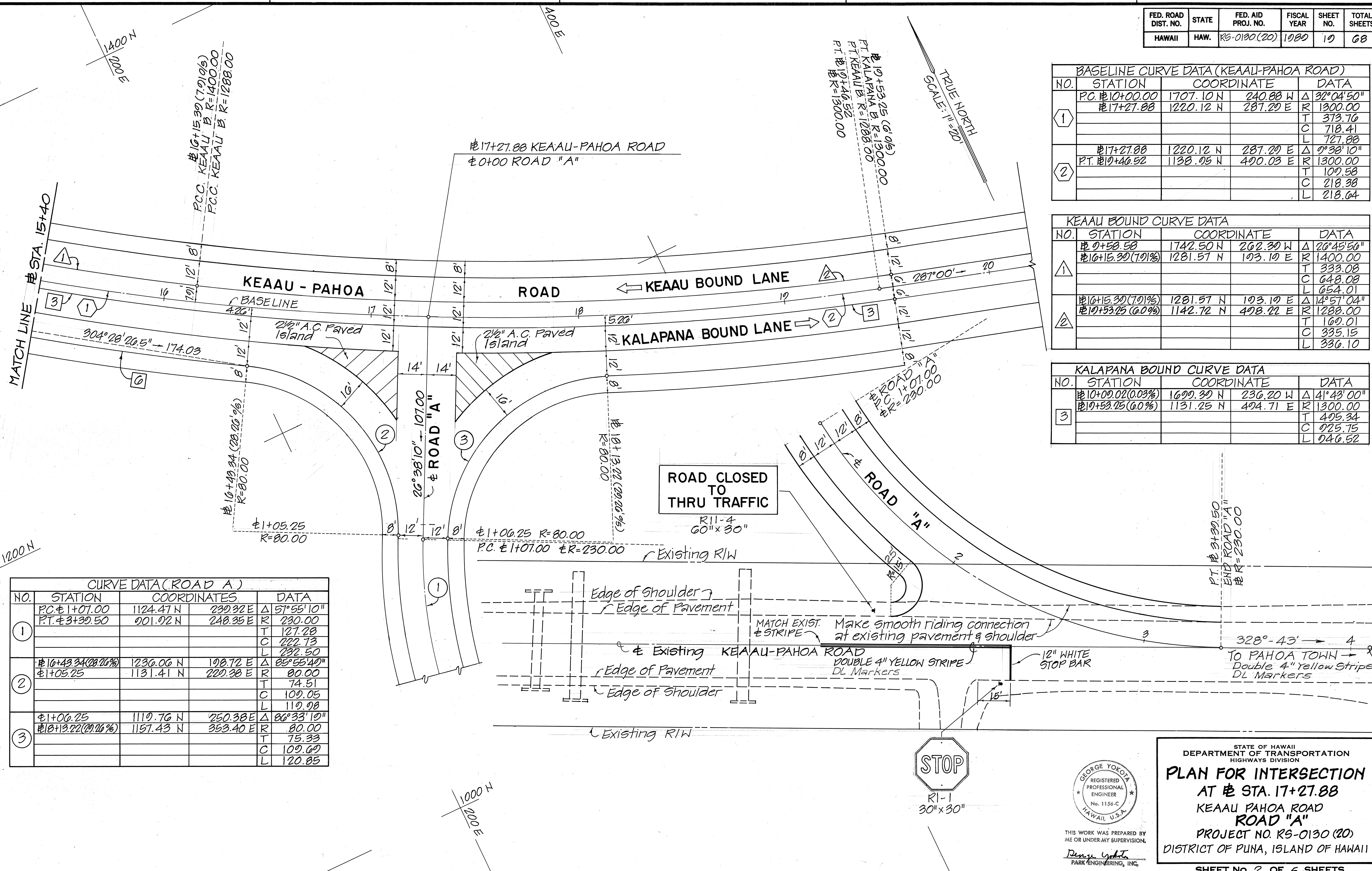
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

BASELINE CURVE DATA (KEAAU-PAHOA ROAD)				
NO.	STATION	COORDINATE		DATA
1	P.C. 10+00.00	1707.10 N	240.88 W	Δ 32°04'50"
	117+27.88	1220.12 N	287.29 E	R 1300.00
				T 373.76
				C 718.41
				L 727.88
2	117+27.88	1220.12 N	287.29 E	Δ 9°38'10"
	P.T. 10+46.52	1138.05 N	420.03 E	R 1300.00
				T 109.58
				C 218.38
				L 218.64

KEAALI BOUND CURVE DATA				
NO.	STATION	COORDINATE		DATA
1	10+58.58	1742.50 N	262.30 W	Δ 20°45'04"
	10+15.30(70.1%)	1281.57 N	103.10 E	R 1400.00
				T 333.08
				C 648.08
				L 654.01
2	10+15.30(70.1%)	1281.57 N	103.10 E	Δ 14°57'04"
	10+53.25(60.0%)	1142.72 N	408.22 E	R 1288.00
				T 160.01
				C 335.15
				L 336.10

KALAPANA BOUND CURVE DATA				
NO.	STATION	COORDINATE		DATA
3	10+00.02 (0.03%)	1699.30 N	236.20 W	A 41°43'00"
	10+53.25 (6.0%)	1131.25 N	404.71 E	R 1300.00
				T 405.34
				C 025.75
				L 040.52

CURVE DATA (ROAD A)				
NO.	STATION	COORDINATES		DATA
1	P.C. $\pm 1+07.00$	1124.47 N	230.32 E	Δ 57° 55' 10"
	P.T. $\pm 3+30.50$	001.02 N	248.35 E	R 230.00
				T 127.28
				C 222.73
				L 232.50
2	$\pm 16+43.34$ (29.26%)	1236.06 N	198.72 E	Δ 85° 55' 40"
	$\pm 1+05.25$	1131.41 N	220.38 E	R 80.00
				T 74.51
				C 109.05
				L 110.98
3	$\pm 1+06.25$	1110.76 N	250.38 E	Δ 86° 33' 10"
	$\pm 18+13.22$ (29.26%)	1157.43 N	353.40 E	R 80.00
				T 75.33
				C 109.60
				L 120.85



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



THIS WORK WAS PREPARED
ME OR UNDER MY SUPERVIS

Benny Yokota

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PLAN FOR INTERSECTION
AT STA. 17+27.88
KEAAU PAHOA ROAD
ROAD "A"
PROJECT NO. RS-0130 (20)
DISTRICT OF PUNA, ISLAND OF HAWAII**

SHEET NO. 2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0130(20)	1980	20	68

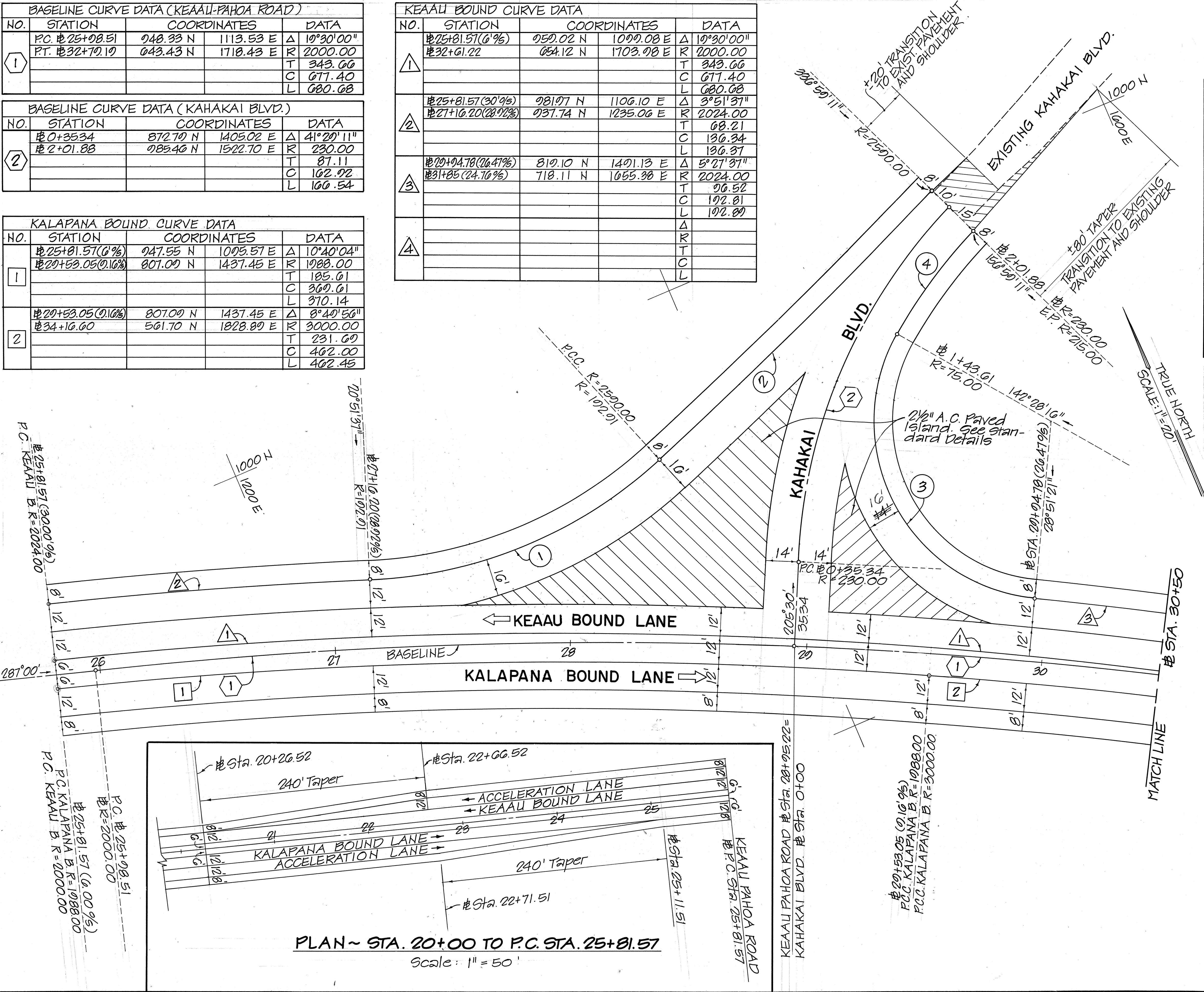
KAHAKAI BOULEVARD CURVE DATA					
NO.	STATION	COORDINATES		DATA	
1	P.C.C.	037.74 N	1235.06 E	Δ 40°17'37"	R 192.01
2	P.C.C.	036.00 N	1367.04 E	Δ 3°34'40"	R 2500.00
3	P.C.C.	036.00 N	1367.04 E	Δ 113°30'55"	R 148.72
4	P.C.C.	044.27 N	1481.64 E	Δ 14°30'55"	R 215.00

BASELINE CURVE DATA (KEAAU-PAHOA ROAD)					
NO.	STATION	COORDINATES		DATA	
1	P.C. #25+08.51	048.33 N	1113.53 E	Δ 10°30'00"	R 2000.00
2	P.T. #32+70.10	043.43 N	1718.43 E	R 2000.00	L 680.68

BASELINE CURVE DATA (KAHAKAI BLVD.)					
NO.	STATION	COORDINATES		DATA	
2	#0+35.34	872.70 N	1405.02 E	Δ 41°20'11"	R 230.00
3	#2+01.88	085.46 N	1522.70 E	R 230.00	L 102.02

KALAPANA BOUND. CURVE DATA					
NO.	STATION	COORDINATES		DATA	
1	#25+81.57(6.9%)	047.55 N	1005.57 E	Δ 10°40'04"	R 1088.00
2	#20+53.05(0.16%)	807.00 N	1437.45 E	Δ 8°40'56"	R 3000.00

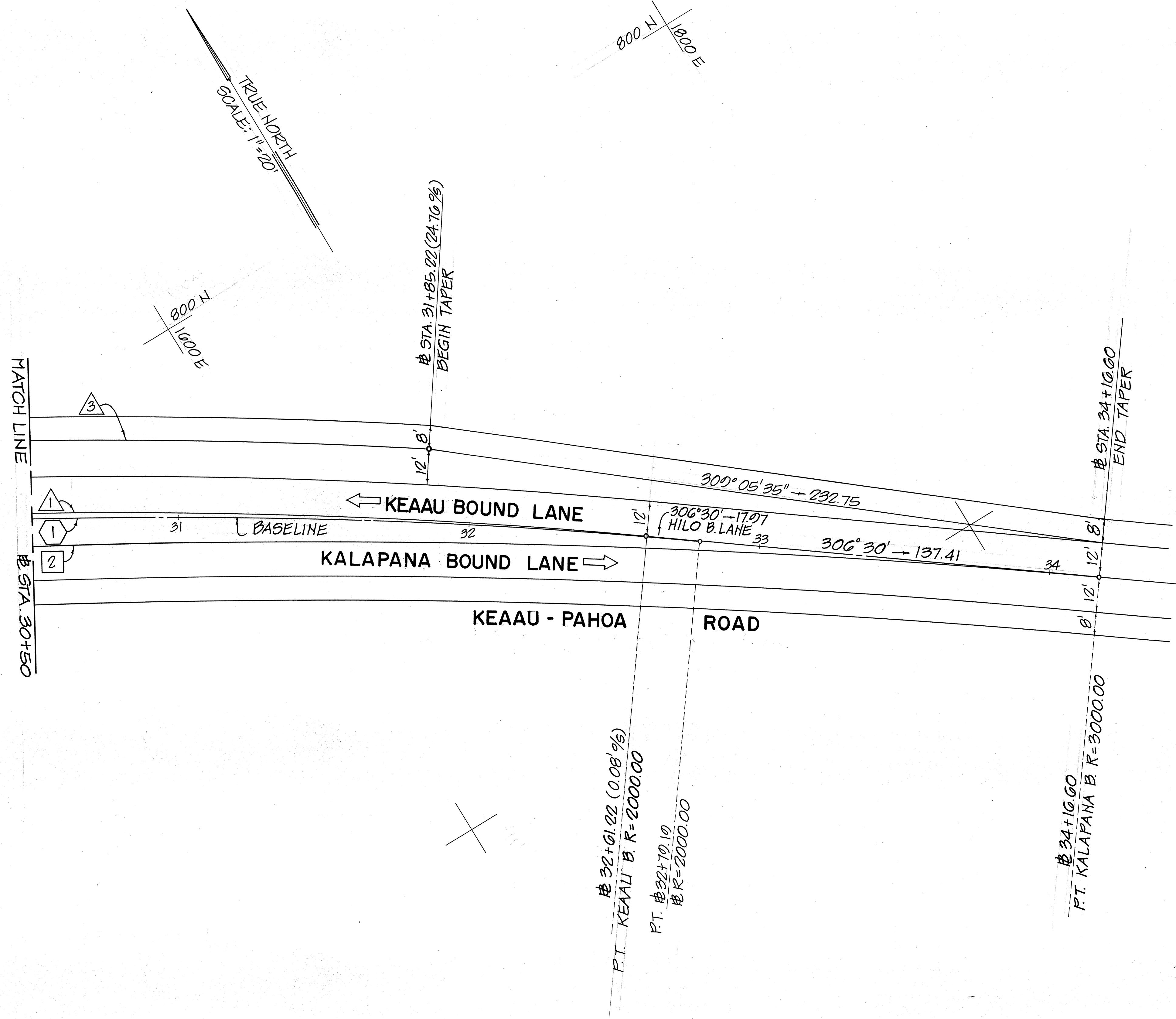
KEAAU BOUND CURVE DATA					
NO.	STATION	COORDINATES		DATA	
1	#25+81.57(6.9%)	050.02 N	1000.08 E	Δ 10°30'00"	R 2000.00
2	#27+16.20(28.02%)	054.12 N	1703.08 E	R 2024.00	L 136.37
3	#20+04.78(26.47%)	810.10 N	1401.13 E	Δ 5°27'37"	R 2024.00
4	#31+85(24.76%)	718.11 N	1655.38 E	R 2024.00	L 102.80



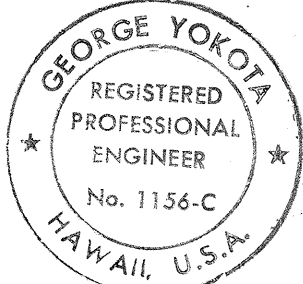
THIS WORK WAS PREPARED BY:
ME OR UNDER MY SUPERVISION,
George Yokota
REGISTERED PROFESSIONAL ENGINEER
No. 1156-C
HAWAII, U.S.A.
PARK ENGINEERING, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PLAN FOR INTERSECTION
AT # STA. 28+05.22
KEAAU PAHOA ROAD
KAHAKAI BOULEVARD
PROJECT NO. RS-0130 (20)
DISTRICT OF PUNA, ISLAND OF HAWAII
SHEET NO. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0130(20)	1980	21	68



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



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George Yokota
PARK ENGINEERING, INC.

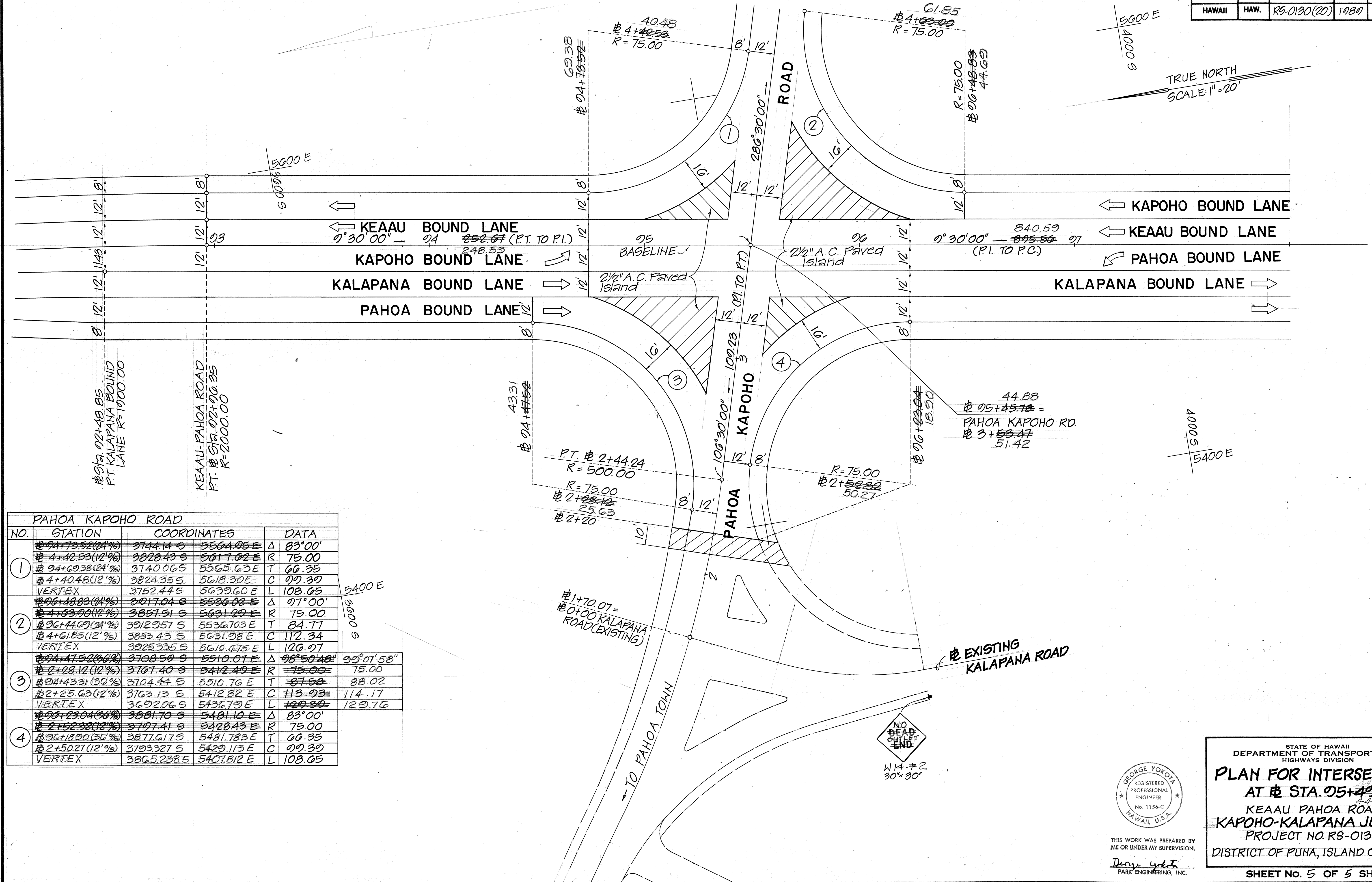
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PLAN FOR INTERSECTION
AT STA. 28+05.22**

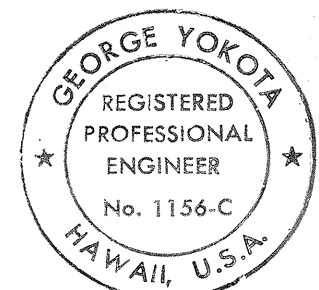
KEAAU PAHOA ROAD
KAHAKAI BOULEVARD
PROJECT NO. RS-0130(20)
DISTRICT OF PUNA, ISLAND OF HAWAII

SHEET NO. 4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0130(20)	1980	22	68



PAHOA KAPOHO ROAD				
NO.	STATION	COORDINATES	DATA	
1	#04+73.52(24%)	3744.14 S	5564.05 E	Δ 83°00'
	#4+42.53(12%)	3828.43 S	5617.62 E	R 75.00
	#04+69.38(24%)	3740.06 S	5565.63 E	T 66.35
	#4+40.48(12%)	3824.35 S	5618.30 E	C 00.30
	VERTEX	3752.44 S	5639.60 E	L 108.65
2	#06+48.83(24%)	3701.70 S	5536.02 E	Δ 97°00'
	#4+63.00(12%)	3857.51 S	5631.29 E	R 75.00
	#06+44.69(24%)	3702.57 S	5536.70 E	T 84.77
	#4+61.85(12%)	3853.43 S	5631.98 E	C 112.34
	VERTEX	3725.33 S	5610.67 E	L 120.97
3	#04+47.52(36%)	3708.50 S	5510.07 E	Δ 98°50'48"
	#2+28.12(12%)	3767.40 S	5412.49 E	R 75.00
	#04+43.31(36%)	3704.44 S	5510.76 E	T 81.58
	#2+25.63(12%)	3763.13 S	5412.82 E	C 113.93
	VERTEX	3692.06 S	5436.79 E	L 129.76
4	#06+23.04(36%)	3881.70 S	5481.10 E	Δ 83°00'
	#2+52.92(12%)	3797.41 S	5428.43 E	R 75.00
	#06+18.90(36%)	3877.61 S	5481.78 E	T 66.35
	#2+50.27(12%)	3793.32 S	5429.11 E	C 00.30
	VERTEX	3865.23 S	5407.81 E	L 108.65



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 George Yokota
 PARK ENGINEERING, INC.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PLAN FOR INTERSECTION
AT STA. 05+49.02
 KEAAU PAHOA ROAD
 KAPOHO-KALAPANA JUNCTION
 PROJECT NO. RS-0130(20)
 DISTRICT OF PUNA, ISLAND OF HAWAII
 SHEET NO. 5 OF 5 SHEETS