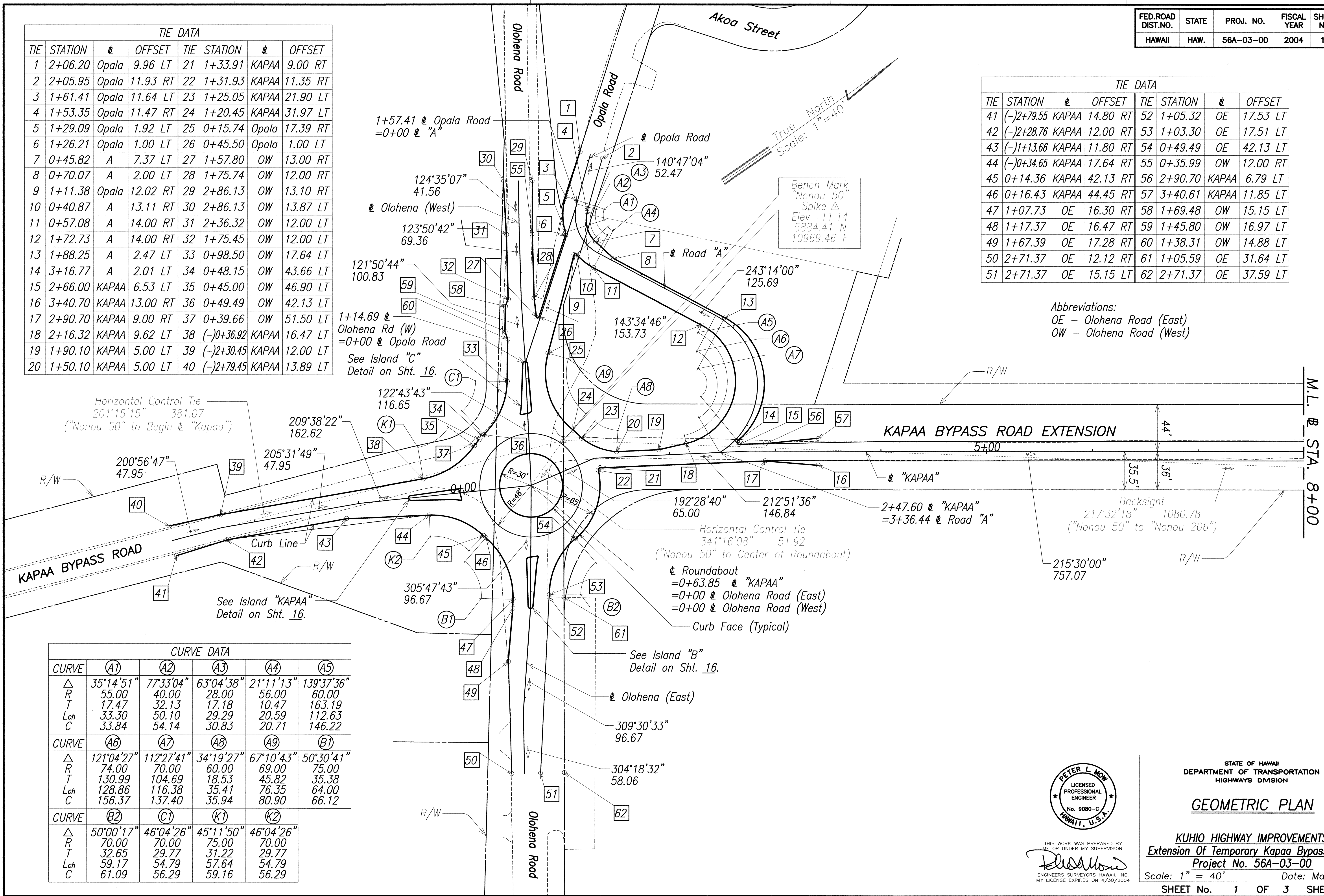


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-00	2004	16	66

TIE DATA							
TIE	STATION	℄	OFFSET	TIE	STATION	℄	OFFSET
1	2+06.20	Opala	9.96 LT	21	1+33.91	KAPAA	9.00 RT
2	2+05.95	Opala	11.93 RT	22	1+31.93	KAPAA	11.35 RT
3	1+61.41	Opala	11.64 LT	23	1+25.05	KAPAA	21.90 LT
4	1+53.35	Opala	11.47 RT	24	1+20.45	KAPAA	31.97 LT
5	1+29.09	Opala	1.92 LT	25	0+15.74	Opala	17.39 RT
6	1+26.21	Opala	1.00 LT	26	0+45.50	Opala	1.00 LT
7	0+45.82	A	7.37 LT	27	1+57.80	OW	13.00 RT
8	0+70.07	A	2.00 LT	28	1+75.74	OW	12.00 RT
9	1+11.38	Opala	12.02 RT	29	2+86.13	OW	13.10 RT
10	0+40.87	A	13.11 RT	30	2+86.13	OW	13.87 LT
11	0+57.08	A	14.00 RT	31	2+36.32	OW	12.00 LT
12	1+72.73	A	14.00 RT	32	1+75.45	OW	12.00 LT
13	1+88.25	A	2.47 LT	33	0+98.50	OW	17.64 LT
14	3+16.77	A	2.01 LT	34	0+48.15	OW	43.66 LT
15	2+66.00	KAPAA	6.53 LT	35	0+45.00	OW	46.90 LT
16	3+40.70	KAPAA	13.00 RT	36	0+49.49	OW	42.13 LT
17	2+90.70	KAPAA	9.00 RT	37	0+39.66	OW	51.50 LT
18	2+16.32	KAPAA	9.62 LT	38	(-)0+36.92	KAPAA	16.47 LT
19	1+90.10	KAPAA	5.00 LT	39	(-)2+30.45	KAPAA	12.00 LT
20	1+50.10	KAPAA	5.00 LT	40	(-)2+79.45	KAPAA	13.89 LT

TIE DATA							
TIE	STATION	℄	OFFSET	TIE	STATION	℄	OFFSET
41	(-)2+79.55	KAPAA	14.80 RT	52	1+05.32	OE	17.53 LT
42	(-)2+28.76	KAPAA	12.00 RT	53	1+03.30	OE	17.51 LT
43	(-)1+13.66	KAPAA	11.80 RT	54	0+49.49	OE	42.13 LT
44	(-)0+34.65	KAPAA	17.64 RT	55	0+35.99	OW	12.00 RT
45	0+14.36	KAPAA	42.13 RT	56	2+90.70	KAPAA	6.79 LT
46	0+16.43	KAPAA	44.45 RT	57	3+40.61	KAPAA	11.85 LT
47	1+07.73	OE	16.30 RT	58	1+69.48	OW	15.15 LT
48	1+17.37	OE	16.47 RT	59	1+45.80	OW	16.97 LT
49	1+67.39	OE	17.28 RT	60	1+38.31	OW	14.88 LT
50	2+71.37	OE	12.12 RT	61	1+05.59	OE	31.64 LT
51	2+71.37	OE	15.15 LT	62	2+71.37	OE	37.59 LT

Abbreviations:
OE - Olohehena Road (East)
OW - Olohehena Road (West)



CURVE DATA					
CURVE	(A1)	(A2)	(A3)	(A4)	(A5)
Δ	35°14'51"	77°33'04"	63°04'38"	21°11'13"	139°37'36"
R	55.00	40.00	28.00	56.00	60.00
T	17.47	32.13	17.18	10.47	163.19
Lch	33.30	50.10	29.29	20.59	112.63
C	33.84	54.14	30.83	20.71	146.22
CURVE	(A6)	(A7)	(A8)	(A9)	(B1)
Δ	121°04'27"	112°27'41"	34°19'27"	67°10'43"	50°30'41"
R	74.00	70.00	60.00	69.00	75.00
T	130.99	104.69	18.53	45.82	35.38
Lch	128.86	116.38	35.41	76.35	64.00
C	156.37	137.40	35.94	80.90	66.12
CURVE	(B2)	(C1)	(K1)	(K2)	
Δ	50°00'17"	46°04'26"	45°11'50"	46°04'26"	
R	70.00	70.00	75.00	70.00	
T	32.65	29.77	31.22	29.77	
Lch	59.17	54.79	57.64	54.79	
C	61.09	56.29	59.16	56.29	

PETER L. MOW
LICENSED PROFESSIONAL ENGINEER
No. 9080-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
[Signature]
ENGINEERS SURVEYORS HAWAII, INC.
MY LICENSE EXPIRES ON 4/30/2004

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GEOMETRIC PLAN

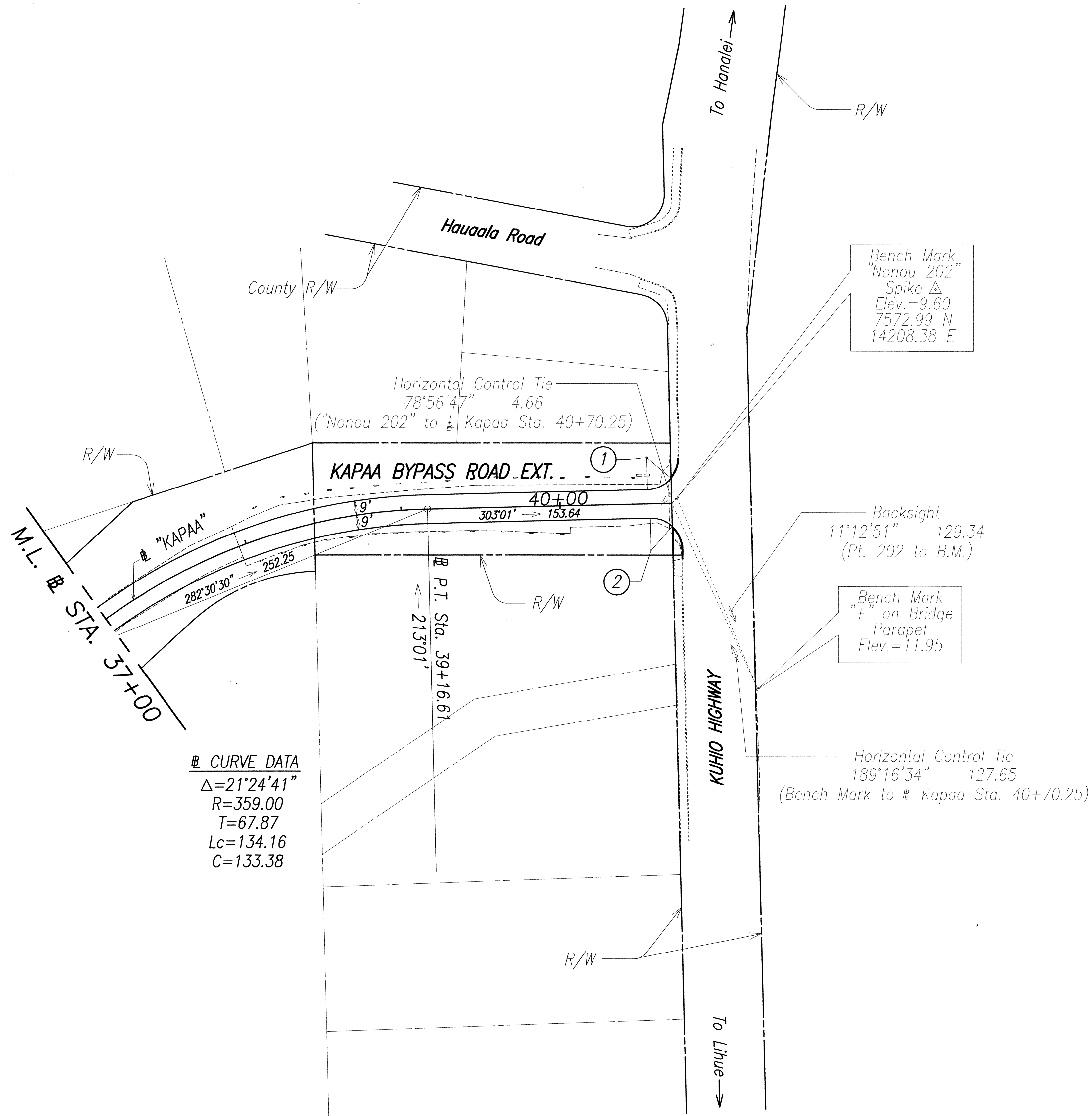
KUHIO HIGHWAY IMPROVEMENTS
Extension Of Temporary Kapaa Bypass Road
Project No. 56A-03-00

Scale: 1" = 40' Date: Mar 2004

SHEET No. 1 OF 3 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
TRACED BY: _____
DESIGNED BY: _____
CHECKED BY: _____
NOTE BOOK: _____
QUANTITIES BY: _____
No. _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-00	2004	18	66



CURVE DATA		
CURVE	①	②
Δ	48°39'58"	42°56'52"
R	20.00	20.00
T	9.04	7.87
Lch	16.48	14.64
C	16.99	14.99

CURVE DATA		
Δ	21°24'41"	
R	359.00	
T	67.87	
Lc	134.16	
C	133.38	

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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Peter L. Now
ENGINEERS SURVEYORS HAWAII, INC.
MY LICENSE EXPIRES ON 4/30/2004

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GEOMETRIC PLAN

KUHIO HIGHWAY IMPROVEMENTS
Extension Of Temporary Kapaa Bypass Road
Project No. 56A-03-00
Scale: 1" = 40' Date: Mar 2004
SHEET No. 3 OF 3 SHEETS