

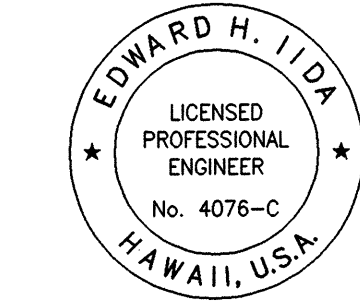
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	49	74

RECONSTRUCTION AREA SCHEDULE						
STATION		OFFSET FROM RD. C TO CENTER RECON. AREA (L.F.)		LENGTH (L.F.)	WIDTH (L.F.)	APPROX. AREA (SQ. FT.)
FROM	TO	LEFT	RIGHT			
398+30	398+50		●	20	12	240
808+50	808+56		●	6	6	36
1106+82	1123+17	●	●	38	24	912
1141+50	1145+25	●	●	375	48	18,000
1198+00	1206+75	●	●	875	48	42,000
1223+10	1226+40	●	●	330	24	7,920
1228+00	1238+00	●	●	1,000	24	24,000
1238+00	1242+80		●	480	12	5,760
1260+00	1262+50		●	250	12	3,000
1263+30	1264+00		●	70	12	840
1273+75	1277+00	●	●	325	48	15,600
1337+20	1339+00		●	180	12	2,160
1403+80	1405+10	●		130	12	1,560
1410+70	1415+10	●	●	440	24	10,560
1415+10	1420+50	●		540	12	6,480
1421+30	1423+50	●		220	12	2,640
1427+80	1428+20	●		40	12	480
1434+70	1437+00	●		230	24	5,520
1501+00	1501+30	●		30	24	720
TOTAL						148,428

LANE AND SHOULDER WIDTH SCHEDULE					
Station	Intersection	Full Travel Width (Ft.) (Thru/Auxiliary Lanes)	Average Shoulder Width (Ft.)	Mix IV Approx Area (Sf) Travelway	Mix V Approx Area (Sf) Shoulder
258+00	NA	24	9	247,200	206,000
361+00	Kona Coast	36	9	52,382	34,000
378+00	NA	24	9	195,600	163,000
459+50	Veteran's Cem. Acc. Rd.	54	9	145,205	70,000
494+50	NA	24	9	78,410	50,000
527+17	Kukio Nui Drive	48	9	98,550	117,000
560+27	Kaupulehu Drive	60	9	73,185	29,600
573+30	NA	24	9	1,116,240	840,000
1038+40	Puu Pohaku Rd.	54	9	142,100	57,000
1066+80	NA	24	9	149,280	112,000
1129+00	Waikoloa Beach Rd.	48	9	50,450	25,000
1141+00	Waikoloa Beach Rd.	48	10	56,800	27,800
1152+50	NA	24	10	90,000	75,000
1190+00	Waikoloa Rd.	48	10	113,960	58,000
1215+00	NA	24	10	112,800	94,500
1262+00	Mauna Lani Drive	48	10	110,700	49,500
1283+00	NA	24	10	346,800	317,900
1427+50	Puako Rd.	48	10	106,100	50,850
1450+25	NA	24	10	102,600	92,950
1493+00	End	48	10	48,820	26,400
1505+00					
TOTALS				3,137,600	2,256,500
Contract Item Number				401.0400	401.0501

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	3/03
No.	DESIGNED BY	
	CHECKED BY	

PAVEMENT RECONSTRUCTION	
Pay Item	Estimated Qty.
312.0100 Plant Mix Glassphalt Concrete Base Course	3,750 Tons
651.0100 Exc. for Recon. of Weakened Pav't Areas	16,500 S.Y.



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Edward H. Iida
MITSUNAGA & ASSOCIATES

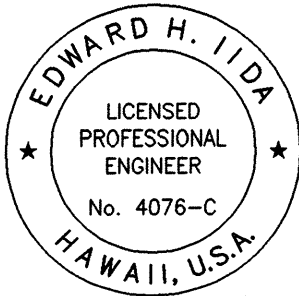
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RECONSTRUCTION/ LANE AND SHOULDER WIDTH SCHEDULE
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. **C-47** OF **68** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	50	74

GUTTER SCHEDULE							
STATION		GUTTER PAVING OFFSET		LENGTH (L.F.)	AVG. WIDTH (L.F.)	APPROX. AREA (SQ. FT.)	REMARKS
FROM	TO	LEFT	RIGHT				
259+75	265+35		●	560	18	10,080	
271+00	276+70	●		570	20	11,400	
297+00	307+50		●	1,050	20	21,000	
297+40	301+00	●		1,260	12	15,120	
325+75	361+00		●	3,525	12	42,300	
327+00	358+50	●		3,150	15	47,250	
398+30	404+00		●	570	12	6,840	
398+75	406+10	●		735	12	8,820	
423+00	428+00		●	500	24	12,000	
424+00	428+40	●		440	10	4,400	
431+00	436+00		●	500	16	8,000	
440+20	449+20		●	900	18	16,200	
455+20	475+00		●	1,980	24	47,520	
457+50	473+80	●		1,630	12	19,560	
476+00	489+20	●		1,320	8	10,560	
476+20	504+50		●	2,830	15	42,450	
493+80	506+00	●		1,220	12	14,640	
520+00	543+00		●	2,300	15	34,500	
520+20	523+20	●		300	15	4,500	
524+20	533+80	●		960	12	11,520	
544+50	573+00		●	2,850	12	34,200	
578+20	589+20	●		1,100	12	13,200	
578+40	589+20		●	1,310	15	19,650	
604+00	613+00	●		900	15	13,500	
604+50	613+50		●	900	8	7,200	
619+50	628+40	●		890	8	7,120	
619+50	628+80		●	930	8	7,440	
656+00	671+50		●	1,550	8	12,400	
657+00	666+40	●		940	12	11,280	
678+20	685+50		●	730	20	14,600	
696+20	703+80		●	760	20	15,200	
697+90	701+00	●		310	12	3,720	
704+20	709+70	●		550	12	6,600	
704+20	724+80		●	2,060	24	49,440	
711+20	719+70	●		850	12	10,200	
730+00	749+60		●	1,960	15	29,400	
730+80	747+00	●		1,620	12	19,440	
774+50	781+70		●	720	12	8,640	
790+00	814+00		●	2,400	15	36,000	
792+00	802+50	●		1,050	12	12,600	
829+00	839+40		●	1,040	12	12,480	
830+60	838+70	●		810	8	6,480	
860+50	884+50		●	2,400	8	19,200	
862+50	878+70	●		1,620	8	12,960	

STATION		GUTTER PAVING OFFSET		LENGTH (L.F.)	AVG. WIDTH (L.F.)	APPROX. AREA (SQ. FT.)	REMARKS
FROM	TO	LEFT	RIGHT				
927+50	967+00	●		3,950	12	47,400	
934+00	967+00		●	3,300	8	26,400	
968+50	970+00		●	150	8	1,200	
972+00	978+20	●		620	12	7,440	
996+00	1003+00		●	700	15	10,500	
1058+50	1070+40		●	1,190	15	17,850	
1152+25	1163+80		●	1,155	12	13,860	
1153+00	1162+50	●		950	12	11,400	
1166+20	1189+25	●		2,305	12	27,660	
1167+10	1188+50		●	2,140	15	32,100	
1197+10	1252+00	●		5,490	8	43,920	
1201+20	1252+30		●	5,110	8	40,880	
1260+00	1271+70	●		1,170	12	14,040	
1260+40	1274+80		●	1,440	8	11,520	
1279+80	1288+00		●	820	15	12,300	
1280+90	1287+00	●		610	12	7,320	
1297+30	1320+30		●	2,300	15	34,500	
1297+60	1321+40	●		2,380	15	35,700	
1327+80	1333+00		●	520	12	6,240	
1329+00	1330+00	●		100	8	800	
1337+20	1341+50		●	430	15	6,450	
1337+40	1341+30	●		390	15	5,850	
1356+70	1364+50	●		780	12	9,360	
1356+70	1364+00		●	730	15	10,950	
1367+50	1377+00	●		950	12	11,400	
1368+00	1377+00		●	900	12	10,800	
1390+00	1412+00		●	2,200	15	33,000	
1399+90	1408+00	●		810	12	9,720	
1421+30	1423+50	●		220	8	1,760	
1429+00	1455+00		●	2,600	12	31,200	Exist. A.C. Swale
1431+30	1438+80	●		750	8	6,000	
1442+50	1448+00	●		550	12	6,600	
1451+00	1453+00	●		200	12	2,400	
1463+00	1471+80	●		830	12	9,960	Exist. A.C. Swale
1464+00	1471+70		●	770	12	9,240	Exist. A.C. Swale
1474+00	1477+00		●	300	12	3,600	Exist. A.C. Swale
1475+00	1476+70	●		170	12	2,040	Exist. A.C. Swale
1488+00	1499+75	●		1,175	12	14,100	Exist. A.C. Swale
1488+00	1500+50		●	1,250	12	15,000	Exist. A.C. Swale
TOTAL						1,266,920	

GUTTER PAVING	
Pay Item	Estimated Qty.
401.0503 Asphaltic Concrete Mix No. V	16,900 Tons



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Edward H. Iida
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUTTER SCHEDULE
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*

Scale: As Noted Date: March 2003

SHEET No. **C-48** OF **68** SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	3/03
TRACED BY	3/03
CHECKED BY	3/03
ORIGINAL PLAN	
NOTE BOOK	
No.	

CENTERLINE AND REFERENCE SURVEY MONUMENT SCHEDULE

STATION	MONUMENT TYPE	ADJUST CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0110)	RECONSTRUCT CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0120)	CONSTRUCT NEW CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0100)	REMARKS
311.65.47	P.C.	---	---	1	NAIL
328+00	POC	---	---	1	NAIL
340+00	POC	---	---	1	NAIL
370+39.12	MON.	---	---	1	NOT FOUND
382+00	POC	---	---	1	NAIL
401+72.68	P.T.	---	---	1	NAIL
411+00	POT	---	---	1	NAIL
440+06.11	P.C.	---	---	1	NAIL
475+50.99	MON.	---	---	1	NOT FOUND
549+08.77	P.C.C	---	---	1	NOT FOUND
565+00	MON.	---	---	1	NOT FOUND
588+00	POC	---	---	1	NAIL
603+01.26	P.T.	---	---	1	NOT FOUND
607+11.93	P.C.	---	---	1	NAIL
620+00	POC	---	---	1	NAIL
632+00	POC	---	---	1	NAIL
642+85.08	P.T.	---	---	1	NAIL
662+00	POT	---	---	1	NAIL
680+00	POT	---	---	1	NAIL
700+00	POT	---	---	1	NAIL
731+00	POT	---	---	1	NAIL
760+00	POT	---	---	1	NAIL
801+54.91	P.C.	---	---	1	NOT FOUND
820+00	POC	---	---	1	NAIL
832+00	POC	---	---	1	NAIL
850+00	POC	---	---	1	NAIL
870+77.58	P.T.	---	---	1	NAIL
1009+83.72	P.C.	---	---	1	NOT FOUND
1050+12.09	MON.	---	---	1	NOT FOUND
1079+84.24	P.T.	---	---	1	NOT FOUND
1106+84.97	MON.	---	---	1	NOT FOUND
1122+81.89	EQ. STA.	---	---	1	NOT FOUND
1143+49.59	MON.	---	---	1	NOT FOUND
1199+58.44	MON.	---	---	1	NOT FOUND
1257+81.22	P.C.	---	---	1	NOT FOUND

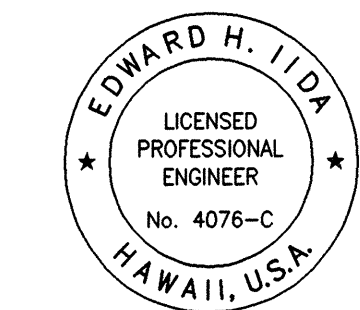
CENTERLINE AND REFERENCE SURVEY MONUMENT SCHEDULE

STATION	MONUMENT TYPE	ADJUST CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0110)	RECONSTRUCT CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0120)	CONSTRUCT NEW CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0100)	REMARKS
1275+00	MON.	---	---	1	NOT FOUND
1328+81.25	MON.	---	---	1	NOT FOUND
1333+55.16	P.T.	---	---	1	NOT FOUND
1377+55.49	P.C.	---	---	1	NOT FOUND
1433+55.18	P.T.	---	---	1	NOT FOUND
1437+58.12	P.C	---	---	1	NOT FOUND
1442+15.24	MON.	---	---	1	NOT FOUND
1460+22.81	P.T.	---	---	1	NOT FOUND
TOTALS		---	---	39	

NOTES:

1. THE CONTRACTOR SHALL INSTALL MONUMENTS PER SCHEDULE.
2. THE ENGINEER WILL PROVIDE THE LOCATION OF THE SURVEY MONUMENT PRIOR TO INSTALLATION.

SURVEY PLOTTED BY	DATE
DRAWN BY G. IN	3/02
TRACED BY	
CHECKED BY C. WOODWARD	3/02
QUANTITIES BY C. WOODWARD	3/02
CHECKED BY E. WEA	3/02
ORIGINAL PLAN	
NOTE BOOK	
No.	



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MITSUNAGA & ASSOCIATES

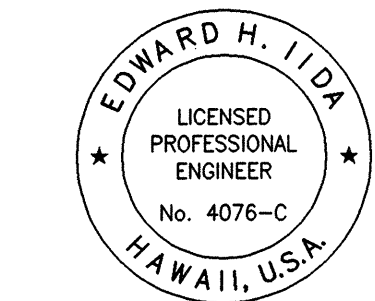
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CENTERLINE AND REFERENCE
SURVEY MONUMENT SCHEDULE**
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003

SHEET No. **C-49** OF **68** SHEETS

STRIPING AND PAVEMENT MARKING SCHEDULE																							
STATION	TRAFFIC REGIME		THERMOPLASTIC EXTRUSION (lin. ft.)															PAVEMENT MARKERS (EACH)					
			4" Double Yellow	4" Yellow Guidelines	4" Yellow C	12" Yellow Diagonal	4" White E.P. Stripe	4" White Stripe	8" White Stripe	12" White Diagonal	4" White Guide Lines	12" Stop Bar	Yield Line	SOLID WHITE ARROW				BIKE ROUTE MARKING W/4" WHITE STRIPE	A	C	D	H	J
	LEFT	RIGHT												Left	Straight	Right	Slant Merge Arrow						
258+00	P	P					15,504												1164	388	194		1,164
335+52	P	N			534		1068												84	28	14		84
340+86	P	P					1112												84	28	14		84
346+42	N	P			574		1148												86	30	15		86
352+16	P	P					1264												96	32	16		96
378+00	N	N	236				472													12	12		
380+36	P	P					3,366													84	42		168
397+19	P	N			815		1,630													40	20		82
405+34	P	P					648													17	9		33
408+58	N	P			820		1,640													41	21		82
416+78	P	P					8,372													210	105		419
458+64	VETERAN'S CTR. ROAD		7,500	60		2,054	7,658	1,395	556	25	360	24	35	4	6	3	4	5	140	265	16	375	
496+13	N	P			516		1,032													26	13		52
501+29	P	P					5,176													130	65		259
527+17	KUKIO NUI DRIVE		3,310	35		3,200	50	450	100		1,153	30		7	7				44	28	6	323	
560+27	KAUPULEHU DRIVE		2,826	100		320	2,970	1,150	515	45	535	36	16	3	8	6		8	113	141	14	141	
573+30	P	P					14,140													354	177		707
644+00	P	N			707		1,414													36	18		71
651+07	P	P					874													22	11		44
655+44	N	P			697		1,394													35	18		70
662+41	P	P					25,348													634	317		1,268
789+15	P	N			1,131		2,262													57	29		114
800+46																							

SURVEY PLOTTED BY	DATE
DRAWN BY	3/03
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	NOTE BOOK
No.	



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MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND PAVEMENT MARKING SCHEDULE - 1

Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)

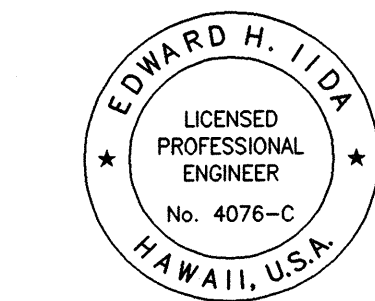
Scale: As Noted Date: March 2003

SHEET No. C-50 OF 68 SHEETS

STRIPING AND PAVEMENT MARKING SCHEDULE																						
STATION	TRAFFIC REGIME		THERMOPLASTIC EXTRUSION (lin. ft.)															PAVEMENT MARKERS (EACH)				
			4" Double Yellow	4" Yellow Guidelines	4" Yellow C	12" Yellow Diagonal	4" White E.P. Stripe	4" White Stripe	8" White Stripe	12" White Diagonal	4" White Guide Lines	12" Stop Bar	Yield Line	SOLID WHITE ARROW				BIKE ROUTE MARKING W/4" WHITE STRIPE	A	C	D	H
	Left	Right	Left	Straight	Right	Slant Merge Arrow																
800+46			793			1,586													40	40		
808+39	N	N			60	120													4	2		9
808+99	P	N																	10	10		
810+82	N	N	183			366													4	2		5
811+14	P	P				64													25	12		48
815+95	N	P			481	962													2,218	556		2,218
1037+75	P	P				44,360																
1066+80	PUU POHAKU RD.		6,000			1,264	5,810	2,195	1,150	405	440	24	28	4	10	5		7	136	226	6	300
1105+00	P	P				7,640													192	96		382
1106+84.97	P	N			185	370													10	5		20
1122+81.89	EQ. STA																					
1124+13	P	N			132	264													7	4		16
1158+00	WAIKOLOA BEACH RD.		5,195			450	7,115	1,357	1,100	150	625	36	30	6	6	3	4	5	132	270	94	167
1161+00	N	P			300	600													16	8		32
1183+00	P	P				4,400													110	55		220
1186+00	P	N			300	600													16	8		30
1218+04	WAIKOLOA ROAD		5,224			570	6,710	1,434	1,280	370	405	24	29	4	7	3	5	7	128	263	74	190
1221+93	N	P			389	778													20	10		40
1254+70	P	P				6,554													164	82		328
1258+00	P	N			330	660													18	9		34
1291+60	MAUNALANI DRIVE		6,747		420	390	7,056	965	1,162	420	545	34	32	4	6	2	3	6	112	260	94	168
1302+72	P	N			1,112	2,224													56	28		112
1308+05	N	N	533			1,066													28	28		

SURVEY PLOTTED BY	DATE
DRAWN BY	3/02
TRACED BY	
CHECKED BY	C. MCDONALD
QUANTITIES BY	C. MCDONALD
CHECKED BY	E. MCDONALD
3/02	

ORIGINAL PLAN	No.
NOTE BOOK	



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Edward H. Iida
MITSUNAGA & ASSOCIATES

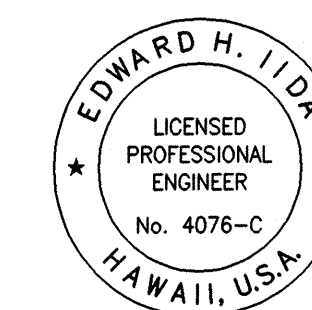
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRIPING AND PAVEMENT MARKING SCHEDULE - 2
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. C-51 OF 68 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	54	74

STRIPING AND PAVEMENT MARKING SCHEDULE

STATION	TRAFFIC REGIME		THERMOPLASTIC EXTRUSION (lin. ft.)															PAVEMENT MARKERS (EACH)					
	LEFT	RIGHT	4" Double Yellow	4" Yellow Guidelines	4" Yellow C	12" Yellow Diagonal	4" White E.P. Stripe	4" White Stripe	8" White Stripe	12" White Diagonal	4" White Guide Lines	12" Stop Bar	Yield Line	SOLID WHITE ARROW				BIKE ROUTE MARKING W/4" WHITE STRIPE	A	C	D	H	J
														Left	Straight	Right	Slant Merge Arrow						
1308+05																							
1318+53	N	P			1,048		2,096													52	26		104
1322+91	P	P					876													22	11		44
	FIRE STATION INTERSECT.		84		1,159		2,318			408	110	295	15	36				2		80	36		120
1334+50																							
	P	P					4,900													122	61		245
1359+00	P	N			1,100		2,200													56	28		110
1370+00	N	N	452				904													22	22		
1374+52	N	P			1,048		2,096													52	26		106
1385+00	P	P					6,800													170	85		340
1419+00	P	N			307		614													16	8		32
1422+07	PUAKO RD.		5,068			455	7,006	1,090	1,302	410	550	36	30	6	6	3	3	7	96	264	96	159	
1455+90	N	P			270		540													14	7		28
1458+60	P	P					4,670													118	60		240
1481+95	P	N			490		980													24	12		50
1486+85	N	N	2,815			230	3,630	842											76	111	40	104	
1505+00																							
TOTALS			47,202	195	13,817	8,933	217,381	10,878	7,573	1,935	4,908	259	236	38	56	25	19	47	977	7,212	2,634	1,927	8,282
CONTRACT ITEM NUMBER			629.1013	629.1011	629.1011	629.1017	629.1012	629.1012	629.1014	629.1016	629.1012	629.1016	629.1015	629.1030	629.1030	629.1030	629.1030	629.1040	629.2010	629.2030	629.2040	629.2070	629.2080

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY <i>C. IN</i>	<i>3/63</i>
NOTE BOOK	TRACED BY	"
	DESIGNED BY <i>C. McDONALD</i>	<i>3/63</i>
	QUANTITIES BY <i>C. McDONALD</i>	<i>3/63</i>
No.	CHECKED BY <i>F. MDA</i>	<i>3/63</i>



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STRIPING AND PAVEMENT
MARKING SCHEDULE - 3**

*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*

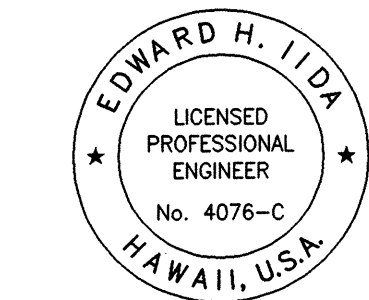
Scale: As Noted Date: March 2003

SHEET No. **C-52** OF **68** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	55	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE													
STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
258+00		●	92.55	"BEGIN RUMBLE STRIP"		1	1						
258+02	●		92.55	"END RUMBLE STRIP"		1	1						
262+86	●		92.46	"AIRPORT 1/2 MILE"		1					17.00		
258+02	●		92.00	"AIRPORT 1 MILE"		1					16.00		
339+64	●		91.00	"ADOPT A HIGHWAY/ LITTER CONTROL NEXT 2 MILES/ -LIT. BUGS HELCO EMP."		2		1	1				
339+69		●	91.00	"ADOPT A HIGHWAY/ LITTER CONTROL NEXT 2 MILES/ -STARBUCKS"		2		1	1				
350+50	●	●	90.80	R2-1(55)		1	1						
358+41	●		90.65	R4-1/W14-3		2	1	1					
358+41		●	90.65	R4-2		1	1						
362+51		●	90.57	"KONA COAST STATE PARK/ SHORELINE PUB ACCESS"/ -M6-1		3	1	1			16.67		
364+03		●	90.54	W2-2/W13-1(45)		2	1	1					
370+14	●		90.43	R1-1		1	1						
374+68	●		90.34	"KONA COAST/ SHORELINE PUB ACCESS"/ -M6-1		3	1	1			16.25		
376+65	●		90.30	W2-2/W13-1(45)		2	1	1					
380+38	●		90.23	R4-1 (24"x30")		1	1						
380+39	●	●	90.23	W14-3 (36"x36"x48") R4-2 (24"x30")		2	1	1					
445+48	●		89.00	"ADOPT A HIGHWAY/ LITTER CONTROL NEXT 2 MILES"		2		1	1				MATCH EXISTING
445+52		●	89.00	"ADOPT A HIGHWAY/ LITTER CONTROL NEXT 2 MILES/ FAIR WIND CRUISES"		2		1	1				MATCH EXISTING
458+98	●	●	88.74	R2-1(55) (24"x30")		2	2						
469+50		●	88.54	"WEST HAWAII VETERAN'S CEMETARY"		1					32.00		
470+00		●	88.53	W11-1 (30"x30") W16-1 (24"x24")			1	1					
470+00		●	88.53	R4-4 (36"x30")			1						
475+19		●	88.44	R1-2 (36"x36"x36")		1	1						
475+78		●	88.42	R1-1 (30"x30)		1	1					1	
475+80		●	88.42	W11-1 (30"x30")			1						
475+85		●	88.42	"KAWAIIHAE/KAILUA"		1					27.50		

ORIGINAL PLAN	DATE	3/03
SURVEY PLOTTED BY	DATE	3/03
DRAWN BY	DATE	3/03
TRACED BY	DATE	3/03
QUANTITIES BY	DATE	3/03
CHECKED BY	DATE	3/03



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MITSUNAGA & ASSOCIATES

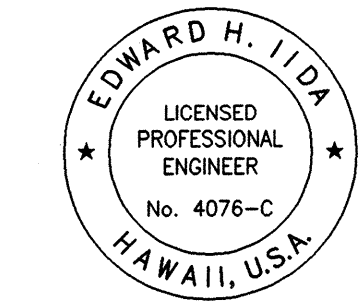
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE - 1**
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. C-53 OF 68 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	56	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
475+90		●	88.41	R1-2 (36"x36"x36")			1						
481+20	●		88.32	"WEST HAWAII VETERAN'S CEMETARY"		1					28.00		
504+52	●		87.88	R1-1 (30"x30")		1	1						
519+00		●	87.61	R2-5(A)	1								NEW SIGN INSTALLED
524+00	●		87.51	R2-1(45)	1								NEW SIGN INSTALLED
524+00		●	87.51	R2-1(55)	1								NEW SIGN INSTALLED
527+00		●	87.45	W2-1	1								NEW SIGN INSTALLED
533+23		●	87.34	W11-1 / W16-1	2								RELOCATE
534+70		●	87.31	R1-1	1								NEW SIGN INSTALLED
534+78		●	87.31	R4-4		1							
539+00	●		87.23	"BEGIN SHOULDER RUMBLE STRIP"	1								NEW SIGN INSTALLED
539+40	●		87.22	W4-2 (R)	1								NEW SIGN INSTALLED
542+85	●		87.16	R1-2 (36"x36"x36")			1						
543+25	●		87.15	R1-1	1								NEW SIGN INSTALLED
543+75		●	87.14	R1-1	1								NEW SIGN INSTALLED
546+29	●		87.09	W11-1 / W16-1	1								NEW SIGN INSTALLED
548+40		●	87.05	W4-2 (R)	1								NEW SIGN INSTALLED
550+76		●	87.00	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ LAW OFF. 1 MATTOCH"	2								NEW SIGNS INSTALLED
550+79	●		87.00	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES"	1								NEW SIGN INSTALLED
551+38		●	86.99	W14-3/R4-2	1								NEW SIGN INSTALLED
554+00	●		86.94	R3-7R	1								NEW SIGN INSTALLED
558+10		●	86.87	"KAUPULEHU/SHORELINE PUBLIC ACCESS"						1	10.25		
558+73	●		86.85	W2-1	1								NEW SIGN INSTALLED
559+00		●	86.85	W2-1 (30"x30")			1						
559+00	●		86.85	R2-5A (24"x30")		1	1						
561+03	●		86.81	R2-1(55) (24"x30")		1	1						
563+00		●	86.77	W11-1 (30"x30") W16-1 (24"x24")			1	1					
564+50	●		86.74	W11-1 (30"x30")			1						
564+55	●		86.74	R1-2 (36"x36"x36")			1						
564+60	●		86.74	"KAWAIHAE/KAILUA"		1					36.00		
564+65		●	86.74	R1-2 (36"x36"x36")		1	1						
564+65		●	86.74	R3-2-A (48"x48")		1			1	1			

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	3/02
	DESIGNED BY	3/02
	QUANTITIES BY	3/02
	CHECKED BY	3/02



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MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE - 2**

Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)

Scale: As Noted Date: March 2003

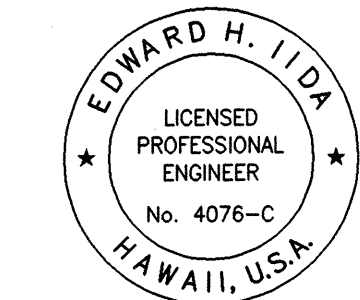
SHEET No. C-54 OF 68 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	57	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
564+79	●		86.74	R1-1 (30"x30")		1	1					1	
565+10		●	86.73	W11-1 (30"x30")			1						
565+36	●		86.73	R1-2 (36"x36"x36")		1	1						
565+39		●	86.73	R1-1 (30"x30")		1	1						
570+00	●		86.64	W2-1 (36"x36")		1	1						
573+05	●		86.58	W11-1 (30"x30") W16-1 (24"x24")			1	1					
575+00	●		86.54	"KAUPULEHU/SHORELINE PUBLIC ACCESS"		2				1	10.25		
597+14		●	86.13	"DONKEY CROSSINGS NEXT TWO MILES/ DAWN AND TWILIGHT HOURS"		1			1				MATCH EXISTING
603+02		●	86.01	W11-(DONKEY) (30"x30")		1	1						
615+09	●		85.79	W11-(DONKEY XING) (30"x30") (24"x18")		2	1	1					
638+07		●	85.35	W11-(DONKEY) (30"x30")		1	1						
656+04	●		85.01	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ LAW OFF IAN MATTOCH"		2		1	1				MATCH EXISTING
656+09		●	85.01	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ ROB MARX LAW OFF."		2		1	1				MATCH EXISTING
668+00	●	●	84.78	R2-1(55) (24"x30")		2	2						
671+63	●		84.71	W11-(DONKEY) (30"x30")		1	1						
676+70	●		84.62	"DONKEY CROSSINGS NEXT TWO MILES/ DAWN AND TWILIGHT HOURS"		1			1				MATCH EXISTING
677+90		●	84.60	"BUCKLE UP IT'S THE LAW"		1	1						MATCH EXISTING
677+92	●		84.60	"BUCKLE UP IT'S THE LAW"		1	1						MATCH EXISTING
703+87		●	84.10	"ROAD TEST 157080"		1	1						MATCH EXISTING
708+88		●	84.01	"ROAD TEST 157080"		1	1						MATCH EXISTING
762+11	●		83.00	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ ROB MARX LAW OFF."		2		1	1				MATCH EXISTING
762+14		●	83.00	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ BAMBOO..."		2		1	1				MATCH EXISTING
772+99		●	82.80	R2-1(55) (24"x30")		1	1						
787+89		●	82.51	"DRY AREA PREVENT FIRES"		1	1						MATCH EXISTING
804+83		●	82.19	"SCENIC POINT"		1					19.50		
808+35		●	82.12	"EMERGENCY PHONE" D9-1A (24"x30")				1	1				

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY G. I/M	3/03
No.	TRACED BY	3/03
	DESIGNED BY C. MC DONALD	3/03
	QUANTITIES BY C. MC DONALD	3/03
	CHECKED BY E. IMA	3/03



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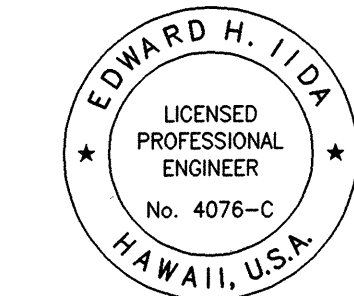
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE - 3**
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. C-55 OF 68 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	58	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
808+55	●		82.12	R1-1 (30"X30")		1	1						
810+90	●		82.08	R1-1 (30"X30")		1	1						
811+45	●		82.06	"EMERGENCY PHONE" D9-1A (24"X30")				1	1				
815+40	●		81.99	"SCENIC POINT"		1					19.50		
866+84		●	81.02	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ OUTRIGGER WAIKOLOA BEACH"		2		1	1				MATCH EXISTING
866+84	●		81.02	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ CUSTOM PAINTING HI"		2		1	1				MATCH EXISTING
878+04	●	●	80.81	R2-1(55) (24"X30")		2	2						
972+21		●	79.02	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ HILTON NALIMAHANA"		2		1	1				MATCH EXISTING
972+21	●		79.02	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ OUTRIGGER WAIKOLOA BEACH"		2		1	1				MATCH EXISTING
983+74	●		78.80	R2-1(55) (24"X30")		1	1						
984+00		●	78.80	R2-1(55) (24"X30")		1	1						
1039+00		●	77.76	"PU'U POHAKU RD"		1					8		
1041+30		●	77.72	W11-1 (30"X30") W16-1 (24"X24")			1	1					
1041+30		●	77.72	R4 4 (36"X30")			1						
1042+97		●	77.68	W2-2 (30"X30")		1	1						
1047+55	●		77.60	R2-1(55) (24"X30")		1	1						
1049+60		●	77.56	R1-2 (36"X36"X36")		1	1						
1049+62		●	77.56	R5-1 (30"X30") R5-1A (36"X24")		2	1	1					
1050+35		●	77.55	R1-1 (30"X30")		1	1					1	
1050+60		●	77.54	W11-1 (30"X30")			1						
1050+90		●	77.53	R5-1 (30"X30") R5-1A (36"X24")		2	1	1				1	
1051+00		●	77.53	R1-2 (36"X36"X36")		1	1						
1054+25		●	77.47	R2-1 (55) (48"X60")		1			1				
1057+35	●		77.41	W2-4 (30"X30")		1	1						
1060+84	●		77.34	"PU'U POHAKU RD"		1					8		
1077+61	●		77.03	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ HILTON-NA LIMA HANA"		2		1	1				MATCH EXISTING

ORIGINAL PLAN NOTE BOOK No.	SURVEY PLOTTED BY _____ DATE _____	
	DRAWN BY _____	5/03
	TRACED BY _____	5/03
	QUANTITIES BY _____	5/03
CHECKED BY _____		5/03



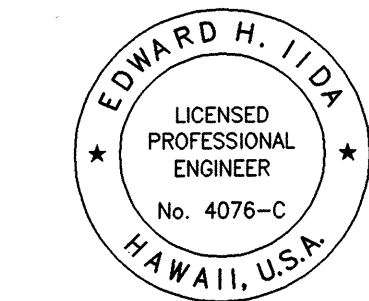
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Edward H. Iida
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE - 4**
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. **C-56** OF **68** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	59	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE													
STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
1077+63		●	77.03	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ BAY CLUB AT WAIKOLOA"		2		1	1				MATCH EXISTING
1088+00	●	●	76.83	R2-1(55) (24"x30")		2	2						
1103+78	●		76.53	W11-1 (30"x30")		1	1						
1104+80		●	76.51	"GAS FOOD LODGING NEXT LEFT"		1			1				
1126+12	●		76.11	"DISTRICT OF NORTH KONA"		1				7.2			
1126+12		●	76.11	"DISTRICT OF SOUTH KONA"		1				7.2			
1129+66		●	76.04	"WAIKOLOA BEACH DR/ SHORELINE PUB ACCESS"		3				1	10		
1130+89		●	76.02	"ANAEHOOMALU"		1				20			
1133+12		●	75.97	"GAS FOOD LODGING"		1			1				
1135+93	●		75.92	W4-2 (R) (36"x36")		2	1						
1142+39	●		75.80	R5-1 (30"x30")		1	1						
1142+95	●		75.79	R1-2 (36"x36"x36")			1						
1143+20	●		75.78	W11-1 (30"x30")		1	1						
1143+25	●		75.78	"CAUTION FAST MOVING TRAFFIC"		1	1						MATCH EXISTING
1143+83		●	75.77	R2-1(55)		1	1						
1143+96	●		75.77	R5-1 (30"x30") R5-1A (36"x24")		1	1	1					
1150+35	●		75.65	W11-1 (30"x30") W16-1 (24"x24")			1	1					
1150+85	●		75.64	"GAS FOOD LODGING"		1			1				MATCH EXISTING
1152+00	●		75.62	"ANAEHOOMALU"		1				20			
1153+30	●		75.59	"WAIKOLOA BEACH DR/ SHORELINE PUBLIC ACCESS"		3				1	10		
1155+75	●		75.55	"GAS FOOD LODGING NEXT RIGHT"		1			1				MATCH EXISTING
1170+06		●	75.27	R2-1 (24"x30")		1	1						
1183+00		●	75.03	"KAWAIHAE 9 WAIKOLOA VILLAGE 6"		1				52.25			
1190+52		●	74.89	"FOOD GAS PHONE NEXT RIGHT"		1			1				MATCH EXISTING
1192+60		●	74.85	W11-1 (30"x30") W16-1 (24"x24")			1	1					
1192+60		●	74.85	R4-4 (36"x30")			1						
1193+35	●		74.84	"UNLAWFUL TO LITTER/ \$500 FINE"		1	1						MATCH EXISTING
1194+75	●		74.81	"BUCKLE UP IT'S THE LAW"		1	1						

ORIGINAL PLAN NOTE BOOK No.	SURVEY PLOTTED BY	DATE
	DRAWN BY	3/01
	DESIGNED BY	3/03
	CHECKED BY	3/03
DESIGNED BY C. MCOWALD CHECKED BY E. WEA		



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Edward H. Iida
MITSUNAGA & ASSOCIATES

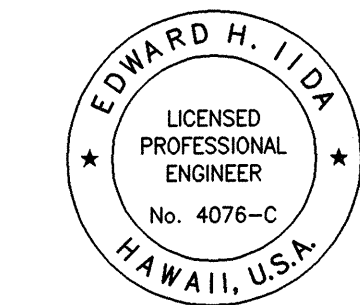
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE - 5**
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. C-57 OF 68 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	60	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
1197+30		●	74.76	"GAS FOOD PHONE"		1			1				MATCH EXISTING
1198+43	●	●	74.74	"ADOPT A HIGHWAY"		2			2				MATCH EXISTING
1199+10		●	74.72	R1-2 (36"X36"X36")			1						
1199+25		●	74.72	R5-1 (30"X30") R5-1A (36"X24")			1	1					
1199+29	●		74.72	R3-3 (24"X24")		1	1						
1199+70	●		74.71	M6-4 (21"X15")		1	1						
1199+90		●	74.71	W11-1 (30"X30")			1						
1200+00		●	74.71	"KAILUA 26 / KAWAIHAE 9"		1					36		
1200+25		●	74.70	R1-2 (36"X36"X36")			1						
1200+73		●	74.69	R5-1 (30"X30") R5-1A (36"X24")		2	1	1					
1201+76	●		74.67	"GAS FOOD LODGING"		1			1				MATCH EXISTING
1204+63		●	74.62	"BUCKLE UP IT'S THE LAW"		1	1						
1205+34		●	74.61	"UNLAWFUL TO LITTER/\$500 FINE"		1	1						
1206+75		●	74.58	W4-2 (R) (36"X36")		2	1						
1208+07	●		74.55	"GAS FOOD PHONE NEXT LEFT"		1			1				MATCH EXISTING
1215+15	●		74.42	"KAILUA 26 WAIKOLOA VILLAGE 6"		1					49.50		
1217+73		●	74.37	W11-1 (30"X30")		1	1						
1219+73	●		74.33	"LOW FLYING AIRCRAFT"		1	1						MATCH EXISTING
1220+05		●	74.33	R4-2 (24"X30")		1	1						
1255+30		●	73.66	R4-1 (24"X30")		1	1						
1262+30		●	73.53	W2-2 (30"X30")		1	1						
1265+27		●	73.47	"MAUNA LANI DR/ SHORELINE PUB ACCESS"		3				1	10		
1273+61	●		73.31	R5-1 (30"X30") R5-1A (36"X24")		2	1	1					
1274+30	●		73.30	R1-2 (36"X36"X36")			1						
1274+52	●		73.30	W11-1 (30"X30")		1	1						
1274+71	●		73.29	R1-1 (30"X30")		1	1					1	
1275+00	●		73.29	R4-7 (24"X30")		2	1	1				1	
1275+70	●		73.27	R1-2 (36"X36"X36")		1	1						
1282+76	●		73.14	"SHORELINE PUB ACCESS"/ M6-1		2		1	1				MATCH EXISTING
1282+90	●		73.14	R4-4 (36"X30")			1						

SURVEY PLOTTED BY	DATE
DRAWN BY	3/03
TRACED BY	3/03
CHECKED BY	3/03
QUANTITIES BY	3/03
CHECKED BY	3/03
ORIGINAL PLAN	
NOTE BOOK	
No.	



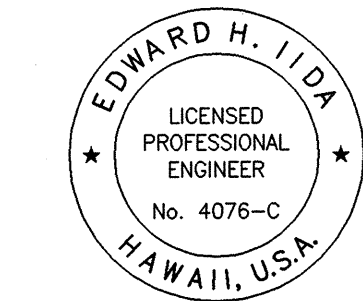
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UNDER MY SUPERVISION
Edward H. Iida
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
***SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE - 6***
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. **C-58** OF **68** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	61	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE													
STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
1282+90	●		73.14	W11-1 (30"x30") W16-1 (24"x24")			1	1					
1284+50	●		73.11	W2-2 (30"x30")		1	1						
1285+37	●		73.09	"MAUNA LANI DR"		1		1		10			
1290+00	●		73.00	R4-1 (24"x30")		1	1						
1305+10	●		72.72	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ A NEW HARVEST"		2		1	1				MATCH EXISTING
1305+12		●	72.72	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ ROB MARX LAW OFFICES"		2		1	1				MATCH EXISTING
1321+60		●	72.40	W2-2 (30"x30")		1	1						
1322+52		●	72.39	"P"/"POLICE"/D9-24		3	1	2					MATCH EXISTING
1323+43		●	72.37	R4-2 (24"x30")		1	1						
1323+43	●		72.37	W14-3 (36"x48"x48") R4-2 (24"x30")		2	1	1					
1324+48		●	72.35	W11-8 (36"x36")		1	1						
1328+25	●		72.28	R1-2 (36"x36"x36")		1	1						
1328+31	●		72.28	"PREVENT BRUSH FIRES"		1			1				MATCH EXISTING
1328+40	●		72.28	R1-1 (30"x30")		1	1				2		
1329+00		●	72.26	R4-2 (24"x30")			1						
1329+20	●		72.26	R1-2 (36"x36"x36")		1	1						
1331+15	●		72.22	R4-4 (36"x30")			1						
1331+15	●		72.22	W11-1 (30"x30") W16-1 (24"x24")			1	1					
1333+81	●		72.17	W11-8 (36"x36")		1	1						
1334+81	●		72.15	R4-1 (24"x30")		1	1						
1334+81		●	72.15	W14-3 (36"x48"x48") R4-2 (24"x30")		2	1	1					
1335+55	●		72.14	"P"/"POLICE"/D9-2A		3	1	2					MATCH EXISTING
1336+28	●		72.13	W2-2 (30"x30")			1						
1359+88	●		71.68	"PREVENT FIRES"		1	1						MATCH EXISTING
1385+97	●		71.19	"PREVENT FIRES"		1	1						MATCH EXISTING
1400+33		●	70.91	R1-1 (30"x30")		1	1						
1410+30	●		70.72	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ ROBERT MARX LAW OFFICES"		2		1	1				MATCH EXISTING
1410+32		●	70.72	"ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES/ DOLPHIN QUEST"		2		1	1				MATCH EXISTING

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	DATE
	DESIGNED BY	DATE
	CHECKED BY	DATE
NOTE BOOK	DESIGNED BY	DATE
	QUANTITIES BY	DATE
	CHECKED BY	DATE
	CHECKED BY	DATE



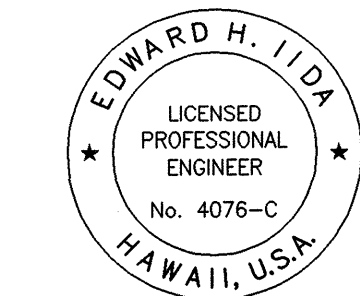
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Edward H. Iida
MITSUNAGA & ASSOCIATES

6/10/03	1	Item Removed
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>SIGN REPLACEMENT, REMOVAL AND INSTALLATION SCHEDULE - 7</u>		
<u>Queen Kaahumanu Highway Resurfacing Kekaha Kai State Park to Hapuna Federal-Aid Project No. NH-019-1(33)</u>		
Scale: As Noted		Date: March 2003
SHEET No. C-59 OF 68 SHEETS		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	62	74

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE													
STATION	LEFT	RIGHT	MILE POST	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)	RM-4 W/O POST (Bi-Dir)	REMARKS
							W/POST	WO/POST	W/POST	WO/POST			
1412+66	●		70.68	"PREVENT FIRES"		1	1						MATCH EXISTING
1421+47	●		70.51	R2-1(55) (24"X30")		1	1						
1422+50		●	70.49	R2-1(55) (24"X30")		1	1						
1424+98		●	70.45	W2-2 (30"X30")		1	1						
1428+66		●	70.38	"KAWAIHAE 4 PUAKO 1"		1					36.00		
1435+00		●	70.26	"SHORELINE PUB ACCESS"/D9-2A		2		1	1				MATCH EXISTING
1436+50	●		70.23	W4-2 (R) (36"X36")		2	1						
1438+70	●		70.19	R1-1 (30"X30")		1	1						
1440+95	●		70.14	R5-1 (30"X30")		1	1						
1440+95	●		70.14	"PREVENT FIRES"		1	1						MATCH EXISTING
1441+50	●		70.13	R1-2 (36"X36"X36")			1						
1441+78	●		70.13	W11-1 (30"X30")		1	1						
1441+94	●		70.13	R1-1 (30"X30")		1	1					1	
1442+50	●		70.11	R5-1 (30"X30")		1	1						
1442+51	●		70.11	W4-1R/"MERGE" (30"X30")		2	1	1					
1442+73	●		70.11	R1-2 (36"X36"X36")		1	1						
1449+10	●		69.99	R4-4 (36"X30")			1						
1449+10	●		69.99	W11-1 (30"X30") W16-1 (24"X24")			1	1					
1449+73	●		69.98	"SHORELINE PUB ACCESS"/D9-2A		2		1	1				MATCH EXISTING
1456+42		●	69.85	R2-1(55) (24"X30")		1	1						
1457+51	●		69.83	"KAILUA 31 PUAKO 1"		1					32.00		
1461+48		●	69.76	W2-2 (30"X30")		1	1						
1463+88	●		69.71	R2-1(55)/"SR19-70" (24"X30")		2	1	1					
1482+09		●	69.37	R4-1 (24"X30")		1	1						
1486+97	●		69.27	R4-2 (24"X30")		1	1						
1492+04		●	69.18	"KAWAIHAE 3 HAPUNA BEACH STATE PARK"		1					42.50		
1492+95		●	69.16	W2-2 (30"X30")		1	1						
1500+82	●		69.01	W4-2R (36"X36")		2	1						
1501+03		●	69.01	"SHORELINE PUB ACCESS"/D9-2A		2	1	1					MATCH EXISTING
7 543+05	●		87.15	W11-1 (30"X30")			1						
7 544+00		●	87.13	W11-1 (30"X30")			1						
7 1143+13	●		75.78	R1-1 (30"X30")		1	1					1	
TOTALS					19	211	135	48	36	6	541.65	9	
CONTRACT ITEM NUMBER							621.5100	621.5000	621.5300	621.5200	621.0200	621.4040	

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



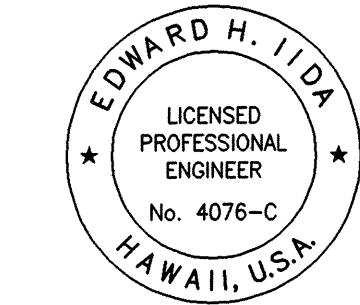
THIS WORK WAS PREPARED BY ME OR
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MITSUNAGA & ASSOCIATES

6/10/03	1 Items Added
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SIGN REPLACEMENT, REMOVAL AND INSTALLATION SCHEDULE - 8 Queen Kaahumanu Highway Resurfacing Kekaha Kai State Park to Hapuna Federal-Aid Project No. NH-019-1(33) Scale: As Noted Date: March 2003	
SHEET No. C-60 OF 68 SHEETS	

REFLECTOR AND OBJECT MARKER SCHEDULE

STATION		LEFT	RIGHT	RM-2 (White)			RM-3 (Yellow)		RM-3 (Bi-dir) (Yellow)		RM-4		TYPE II (Bi-dir)		RM-5	REMARKS
FROM	TO			STEEL POST	FLEX POST	W/OUT POST	FLEX POST	W/OUT POST	FLEX POST	W/OUT POST	STEEL POST	W/OUT POST	FLEX POST	W/OUT POST	W/OUT POST	
475+60	475+60		●									1				VETERANS CEMETERY INT.
565+38	565+38	●								3		1				KAUPULEHU DR. INTERSECTION
809+39	810+58	●			9											"SCENIC POINT" LOOKOUT
840+00	844+29	●							2							GUARDRAIL
1050+00	1051+00		●									2				PUU POHAKU RD. INT.
1162+59	1164+46	●							1							GUARDRAIL
1162+69	1164+52		●						2							GUARDRAIL
1252+28	1258+00		●						4							GUARDRAIL
1252+04	1258+92	●							5							GUARDRAIL
1274+00	1275+00	●										2				MAUNA LANI DR. INT.
1290+00	1294+68		●						3							GUARDRAIL
1290+00	1296+96	●							6							GUARDRAIL
1328+00	1329+00	●										1				FIRE STATION INTERSECTION
1334+32	1337+49	●							3							GUARDRAIL
1377+14	1380+41		●						4							GUARDRAIL
1377+40	1383+25	●							6							GUARDRAIL
1412+07	1416+65		●						6							GUARDRAIL
1412+57	1417+38	●							6							GUARDRAIL
1425+00	1427+89		●						4							GUARDRAIL
1425+00	1427+00	●							3							GUARDRAIL
1441+93	1441+93	●										1				PUAKO RD. INTERSECTION
1441+00	1443+34	●			16											CHANNELIZED INTERSECTION
1455+48	1463+00		●						9							GUARDRAIL
1453+77	1463+37	●							11							GUARDRAIL
TOTALS					25	--	--	--	2	3	--	8	--	--	--	
CONTRACT ITEM NUMBER					621.4138				621.4130	621.4136		621.4040				

SURVEY PLOTTED BY	DATE
DRAWN BY	3/03
TRACED BY	
DESIGNED BY	C. MCKINLEY
CHECKED BY	3/03
ORIGINAL PLAN	
NOTE BOOK	
No.	



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Edward H. Iida
MITSUNAGA & ASSOCIATES

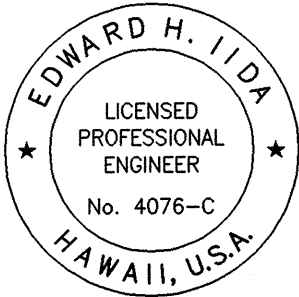
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**REFLECTOR AND OBJECT
MARKER SCHEDULE**
*Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)*
Scale: As Noted Date: March 2003
SHEET No. **C-61** OF **68** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	64	74

MILEPOST MARKER SCHEDULE							
STATION	LEFT	RIGHT	MILE POST D10-2 (10"x27") MILE POST NO. (RTE. NO.)	KILOMETER POST D10-2 (10"x36") 1	INSTALL WITH POST (Bi-Dir)	RM-3 W/O POST	REMARKS
287+07	●		92 (19)	148	●		
392+57	●		90 (19)		●		
445+57	●		89(19)		●		
498+62	●		88 (19)		●		
550+58	●		87 (19)	140	●		Not Found
603+41	●		86(19)		●		
656+18	●		85 (19)		●		
708+88	●		84 (19)		●		
762+15	●		83 (19)		●		
814+32	●		82 (19)	132	●		
866+98	●		81 (19)		●		
919+78	●		80 (19)		●		
972+58	●		79(19)		●		
1025+87	●		78 (19)		●		
1078+05	●		77 (19)		●		
1146+66	●		76 (19)		●		
1199+07	●		75 (19)		●		
1251+87	●		74(19)	119	●		
1199+20	●		0		●		Waikoloa Rd. Intersection
1305+00	●		73 (19)		●		
1357+80	●		72 (19)		●		
1410+30	●		71 (19)		●		
1463+12	●		70 (19)		●		
CONTRACT ITEM NO. 621.7610				TOTALS	22		

* Contractor shall submit shop drawings of the kilometer-post sign to the Engineer for acceptance. Fabrication and installation of these signs shall be considered incidental to various sign items.

6/10/03	7 Note Revised
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MILE POST MARKER SCHEDULE	
Queen Kaahumanu Highway Resurfacing Kekaha Kai State Park to Hapuna Federal-Aid Project No. NH-019-1(33)	
Scale: As Noted	Date: March 2003
SHEET No. C-62 OF 68 SHEETS	



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ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	3/03
No.	DESIGNED BY	3/03
	QUANTITIES BY	3/03
	CHECKED BY	3/03

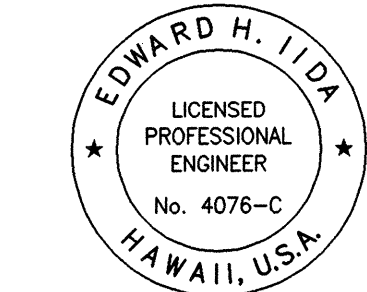
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(33)	2003	65	74

ROUTE MARKER SCHEDULE							
STATION	LEFT	RIGHT	ROUTE MARKER SIGN NO. (ROUTE NO.)	REMOVE	INSTALL TYPE A ASSEMBLY	RM-3 W/O POST	REMARKS
312+88	●	●	ROUTE 19B 91.51	2			To Remain
540+49		●	MI-6(19)		1		Not Found
547+00		●	MI-6(19)	1	1		
598+00	●	●	ROUTE 19B 86.10				To Remain
692+50	●	●	ROUTE 19B 84.31				To Remain
704+00	●	●	ROUTE 19B 84.09				To Remain
762+50	●	●	ROUTE 19B 82.98				To Remain
989+00	●	●	ROUTE 19B 78.69				To Remain
1021+59	●	●	ROUTE 19B 78.07				To Remain
1140+52	●		MI-6 (19)	1	1		
1146+56		●	MI-6 (19)	1	1		
1196+56	●		MI-6 (19)	1	1		
1199+87		●	MI-6 (19), M6-4	1	1		
1202+61		●	MI-6 (19)	1	1		
1291+20	●	●	ROUTE 19B 73.26				Not Found
1342+90	●	●	ROUTE 19B 72.29				To Remain
1366+07	●	●	ROUTE 19B 71.84				To Remain
1427+16	●	●	ROUTE 19B 70.69				Not Found
1463+90	●		SR19/70, RT 19B 69.99	1	1		
TOTALS				7	8	--	
CONTRACT ITEM NUMBER					621.6110		

UTILITY SCHEDULE					
STATION	OFFSET FROM C		TYPE	REMARKS	REMARKS
	Right	Left			
475+00	60'		DRYWELL	36" DIA.	PAVED GUTTER
476+00	60'		DRYWELL	36" DIA.	PAVED GUTTER
556+80		28'	2-WMH	24" DIA.	
1439+71		62'	WV		OFF SHOULDER
1446+93		92'	3 WV		
1463+25		134'	WV		OFF SHOULDER
1491+37		130'	WV		
Legend : (●) WV = Water Valve 4 Total * (●) WMH = Water Manhole 2 Total *					

* CONTRACT ITEM NO. 604.4550

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	3/03
No.	DESIGNED BY	3/03
	QUANTITIES BY	3/03
	CHECKED BY	3/03



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Edward H. Iida
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SCHEDULES

Queen Kaahumanu Highway Resurfacing
Kekaha Kai State Park to Hapuna
Federal-Aid Project No. NH-019-1(33)

Scale: As Noted Date: March 2003

SHEET No. C-63 OF 68 SHEETS