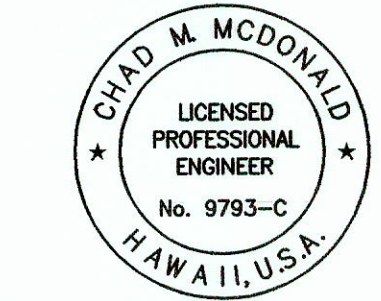


FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	49	59

GUARDRAIL AND REFLECTOR SCHEDULE	GUARDRAIL NO.	LOCATION	OFFSET FROM (FT.)		REMOVE (L.F.)	INSTALL (L.F.)	THRIE BEAM (L.F.)	RESET POST (EA)	END TREATMENTS		RM-3 (Yellow)	RM-3 (Bi-Dir) (Yellow)	RM-5 (Bi-Dir)	REMARKS
			FROM	TO					LEADING	TRAILING				
	1	40+93	46+95	16		0		97	MOD. A-1	Fleat-350	1		25	RESET MOD. A-1
	2	55+81	60+15		15	0		87	MOD. A-1	MOD. G	1		22	INSTALL NEW MOD. A-1
	3	56+26	63+19	16		0		113	MOD. G	MOD. G	1		28	RESET MOD. G
	4	67+20	70+69	16		0		57	Fleat-350	Fleat-350 MOD. G	2		14	
	5	83+86	87+56	17		0		61	MOD. G	MOD. G	2		15	RESET MOD. G
	6	84+76	87+36		16	0		43	MOD. G	MOD. G	2		11	RESET MOD. G
	7	88+04	93+63	16		0		90	MOD. G	Fleat-350 MOD. G	1		23	
	8	92+57	94+41		16	0		30	Fleat-350 MOD. A-1	MOD. G	1		8	INSTALL NEW MOD. A-1
	9	101+97	104+57	16		0		43	MOD. G	MOD. A-1	1		11	INSTALL NEW MOD. A-1
	10	101+01	107+74		12	0		60	Fleat-350	Fleat-350			15	NO RAIL
	11	107+29	111+55	12		0		72	MOD. G	MOD. G			18	RESET MOD. G
	12	108+10	110+25		22	0		35	MOD. A-1	MOD. G			9	INSTALL NEW MOD. A-1
	13	112+81	116+49	22		0		60	MOD. G	MOD. G			15	RESET MOD. G
	14	114+05	115+96		22	0		31	MOD. G	MOD. G			8	RESET MOD. G
	15	116+63	117+56	23		0		15	MOD. G	Fleat-350			3	
	16	132+37	135+55	14		0		52	MOD. G	MOD. G	2		13	RESET MOD. G
	17	133+95	137+62		16	0		58	Fleat-350	MOD. G	2		15	
	18	135+75	138+74	16		0		50	MOD. G	Fleat-350	2		13	
	19	140+96	144+83	19		0		62	MOD. A-1	MOD. G	2		16	INSTALL NEW MOD. A-1
	20	144+98	145+90	21		0		16	MOD. G	MOD. G	2		4	RESET MOD. G
	21	146+03	148+46	21		0		40	MOD. G	Fleat-350 MOD. G	1		10	
	22	148+58	149+92	22		0		22	MOD. G	Fleat-350	4		6	
	23	156+69	160+84	16		0		67	MOD. G	Fleat-350	3		17	
	24	171+59	178+74	16		0		117	MOD. A-1	MOD. G			29	INSTALL NEW MOD. A-1
	25	183+40	187+13	16		0		61	MOD. G	Fleat-350 MOD. G			15	
	26	189+47	196+82	16		0		118	MOD. A-1	MOD. G			30	INSTALL NEW MOD. A-1
	27	197+01	197+55	28		0		9	MOD. G	MOD. G			3	RESET MOD. G
	TOTAL					0		1566			30		396	

ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	Aug. 2011
No.	DESIGNED BY	Aug. 2011
	CHECKED BY	Aug. 2011

LEGEND FOR AS-BUILT POSTING	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



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Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**GUARDRAIL AND RELECTOR
MARKER SCHEDULE**

MAMALAHOA HIGHWAY RESURFACING
MAKALEI TO PALANI ROAD JUNCTION

F.A. Project No. STP-0190(015)

Scale: As Noted Date: November 2011

SHEET No. C-47 OF 59 SHEETS

“AS-BUILT”

ORIGINAL PLAN

NOTE BOOK

No.

SURVEY PLOTTED BY

DRAWN BY

TRACED BY

QUANTITIES BY

CHECKED BY

DATE

Aug. 2011

Aug. 2011

Aug. 2011

Aug. 2011

Aug. 2011

SURVEY PLOTTED BY

DRAWN BY

TRACED BY

QUANTITIES BY

CHECKED BY

DATE

Aug. 2011

Aug. 2011

Aug. 2011

Aug. 2011

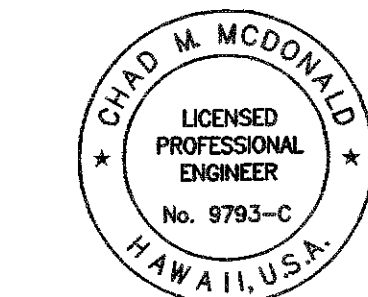
Aug. 2011

REFLECT OR MARKER SCHEDULE							
Station	Left	Right	RM-4	RM-3 (Bi-Dir)	RM-3	RM-2	RM-1
40+76		X			X		
40+80		X			X		
40+81		X			X		
40+85		X			X		
41+71	X					X	
42+70	X					X	
43+70	X					X	
44+70	X					X	
46+68	X					X	
46+92	X				X		
56+14		X				X	
56+30	X				X		
57+99	X					X	
58+08		X				X	
58+99	X					X	
59+08		X				X	
59+99	X					X	
60+08		X				X	
60+99	X					X	
60+96		X				X	
61+12		X			X		
61+99	X					X	
63+16	X				X		
67+25	X				X		
67+46	X					X	
68+46	X					X	
69+46	X					X	
70+46	X					X	
70+66	X				X		
83+89	X				X		
84+27	X					X	
84+71		X			X		
85+21	X					X	
85+99		X				X	
86+13	X					X	
87+06	X	X				X	
87+34		X			X		
87+53	X				X		
88+07	X				X		
88+27	X					X	
89+14	X					X	
90+27	X					X	
91+27	X					X	
92+10		X			X		
92+27	X					X	
92+60		X			X		
92+79		X				X	
		SUBTOTAL	0	0	17	31	0

REFLECT OR MARKER SCHEDULE							
Station	Left	Right	RM-4	RM-3 (Bi-Dir)	RM-3	RM-2	RM-1
93+32	X					X	
93+72		X				X	
101+99	X				X		
102+33	X					X	
103+34	X					X	
104+33	X					X	
104+99		X	X				
106+26		X			X		
106+27		X	X				
132+41	X				X		
132+61	X					X	
134+00		X			X		
134+22		X				X	
134+48	X					X	
135+03		X				X	
135+35	X					X	
135+52	X				X		
135+78	X				X		
135+85		X				X	
135+87	X					X	
136+67		X				X	
136+74	X					X	
137+37		X				X	
137+59		X			X		
137+60	X					X	
138+47	X					X	
138+69	X				X		
143+70	X				X		
144+79	X				X		
145+02	X				X		
145+85	X				X		
146+78	X						X
147+42	X				X		
148+63	X				X		
149+24	X						X
149+57	X				X		
149+72	X				X		
149+93	X				X		
154+32	X				X		
156+73	X				X		
156+81	X					X	
157+74	X					X	
158+69	X					X	
159+62	X				X		
160+57	X					X	
160+80	X				X		
171+85	X					X	
172+70	X					X	
173+64	X					X	

REFLECTOR MARKER SCHEDULE							
Station	Left	Right	RM-4	RM-3 (Bi-Dir)	RM-3	RM-2	RM-1
175+50	X					X	
176+44	X					X	
177+35	X					X	
178+30	X					X	
178+71	X					X	
183+96	X					X	
184+88	X					X	
185+83	X					X	
186+76	X					X	
189+73	X					X	
190+72	X					X	
191+65	X					X	
192+58	X					X	
193+52	X					X	
194+45	X					X	
195+39	X					X	
196+59	X					X	
		SUBTOTAL				17	
		TOTAL	2	0	38	73	2

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	50	59



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Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions of job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GUARDRAIL AND RELECTOR MARKER SCHEDULE
MAMALAHOA HIGHWAY RESURFACING
MAKALEI TO PALANI ROAD JUNCTION
F.A. Project No. STP-0190(015)
Scale: As Noted Date: November 2011
SHEET No. C-48 OF 59 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0190(015)	2011	51	59

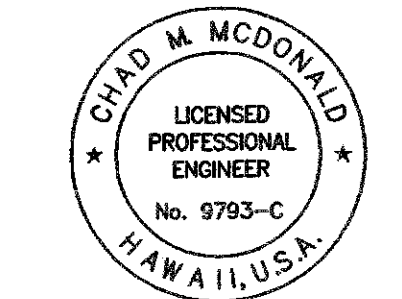
GUARDRAIL TOTAL			
Item No.	Pay Item	Estimated Qty.	Unit
606.0100	Reset Guardrails and Replace Spacer Block	1566	Post
606.0200	End Anchorage , Modified Type "A-I"	8	Each
606.0300	Terminal Section, Type FLEAT-350	14	Each
606.0400	End Treatment, Modified G	32	Each
632.0300	Reflector Marker (RM-3) (Bi-Dir) w/ Flex Post	30	Each
632.0400	Mile Post Marker and Route Number Plate with Post (Bi-Directional)	22	Each

Notes:

1. Terminal Section, "SKT-350" may be used in lieu of "ET-2000 PLUS".
2. Quantities shown are inclusive of work on guardrail sections.

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

ORIGINAL PLAN	
NOTE BOOK	
No.	



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Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**GUARDRAIL AND RELECTOR
MARKER SCHEDULE**

MAMALAHOA HIGHWAY RESURFACING
MAKALEI TO PALANI ROAD JUNCTION
F.A. Project No. STP-0190(015)

Scale: As Noted Date: November 2011

SHEET No. C-49 OF 59 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	Aug. 2011
CHECKED BY	Aug. 2011
NOTED BY	Aug. 2011
DATE	Aug. 2011

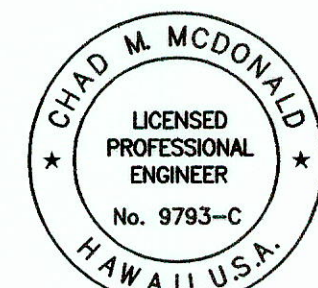
UTILITY SCHEDULE				
STATION	OFFSET FROM		TYPE	REMARKS
	LEFT	RIGHT		
43+65		91	WMH	Adjust Top
43+69		90	WVB	Adjust Top
46+25	17		WVB	Adjust Top
52+81	21		WVB	Adjust Top
52+88	16		WVB	Adjust Top
53+15	19		WMH & WVB	Adjust Top
53+28	25		TSB	Adjust Top
53+49	21		WVB	Adjust Top
53+84		17	WVB	Adjust Top
54+61	16		WVB	Adjust Top
54+63		17	Drywell	Adjust Top
59+51	18		WVB	Adjust Top
65+21	16		WVB	Adjust Top
70+98	14		Elec. Box	Adjust Top
75+88	15		Elec. Box	Adjust Top
80+77	14		Elec. Box	Adjust Top
84+31	15		WVB	Adjust Top
84+36		31	WVB	Adjust Top
84+67		39	WMB	Adjust Top
85+69	15		Elec. Box	Adjust Top
90+58	15		Elec. Box	Adjust Top
95+47	13		Elec. Box	Adjust Top
96+77		12	WVB	Adjust Top
100+36		15	Elec. Box	Adjust Top
102+70		32	Elec. Box	Adjust Top
102+94	12		WVB	Adjust Top
103+06		18	WVB	Adjust Top
111+62	19		WVB	Adjust Top
119+97	18		Elec. Box	Adjust Top
123+58	15		WVB	Adjust Top
123+91	15		WVB	Adjust Top
125+43		27	WVB	Adjust Top
128+45	16		WVB	Adjust Top
132+09	13		WVB	Adjust Top
134+66	15		Elec. Box	Adjust Top
137+59		22	WMB	Adjust Top
139+54	16		Elec. Box	Adjust Top
146+60		37	WMB	Adjust Top
147+17	15		WVB	Adjust Top
147+49		20	WVB	Adjust Top
148+68		25	WMB	Adjust Top
149+25		25	WMB	Adjust Top
149+34	15		Elec. Box	Adjust Top
150+06	16		WVB	Adjust Top
150+79	19		WVB	Adjust Top
153+92	14		WVB	Adjust Top
154+01		14	WVB	Adjust Top
154+08	15		Elec. Box	Adjust Top
170+41	30		WVB	Adjust Top
170+53	16		WVB	Adjust Top
173+06		17	WMB	Adjust Top

UTILITY SCHEDULE				
STATION	OFFSET FROM		TYPE	REMARKS
	LEFT	RIGHT		
173+06		17	WMB	Adjust Top
178+76	26		WVB	Adjust Top
181+14	16		WVB	Adjust Top
184+42	13		WVB	Adjust Top
185+10		18	WVB	Adjust Top
187+42	22		WVB	Adjust Top
187+62	16		WVB	Adjust Top
202+23		23	WVB	Adjust Top
202+53	28		WVB	Adjust Top
202+56		12	WVB	Adjust Top
205+65		17	WMH & WVB	Adjust Top
207+20		15	WMH & WVB	Adjust Top
208+20	12		WVB	Adjust Top
43+20		180	WMH	Adjust Top
53+78		17	WMH	Adjust Top
53+87		17	WMH	Adjust Top
192+57		14	WMH	Adjust Top
202+40		16	WMH	Adjust Top
205+69		10	WMH	Adjust Top
207+69		16	WMH	Adjust Top
43+41		94	WVB	Adjust Top
43+71		88	WVB	Adjust Top
43+71		94	WVB	Adjust Top
43+76		125	WVB	Adjust Top
43+78		127	WVB	Adjust Top
46+21	14		WVB	Adjust Top
46+26	14		WVB	Adjust Top
53+65		22	WVB	Adjust Top
53+65		24	WVB	Adjust Top
53+95		18	WVB	Adjust Top
87+30	13		WVB	Adjust Top
88+43		20	WVB	Adjust Top
97+36	21		WVB	Adjust Top
102+53		20	WVB	Adjust Top
103+13	16		WVB	Adjust Top
106+90	21		WVB	Adjust Top
111+60	16		WVB	Adjust Top
111+65	16		WVB	Adjust Top
123+88	15		WVB	Adjust Top
123+95	15		WVB	Adjust Top
128+47	16		WVB	Adjust Top
147+20	18		WVB	Adjust Top
153+95		17	WVB	Adjust Top
154+25	21		WVB	Adjust Top
177+22	13		WVB	Adjust Top
177+70	12		WVB	Adjust Top
185+07		16	WVB	Adjust Top
185+13		16	WVB	Adjust Top
187+60	16		WVB	Adjust Top
192+63		15	WVB	Adjust Top
197+74		14	WVB	Adjust Top

UTILITY SCHEDULE				
STATION	OFFSET FROM		TYPE	REMARKS
	LEFT	RIGHT		
197+77		12	WVB	Adjust Top
197+78	34		WVB	Adjust Top
197+80		14	WVB	Adjust Top
202+55		14	WVB	Adjust Top
202+60		12	WVB	Adjust Top
205+67		13	WVB	Adjust Top
205+71		13	WVB	Adjust Top
207+21		17	WVB	Adjust Top
207+22		18	WVB	Adjust Top
207+26		17	WVB	Adjust Top
208+21		13	WVB	Adjust Top
208+24		17	WVB	Adjust Top
208+91		17	WVB	Adjust Top
208+17		17	WVB	Adjust Top

STREET SURVEY MONUMENT SCHEDULE			
STATION	MONUMENT TYPE	RECONSTRUCT STREET SURVEY MONUMENTS (ITEM No. 614.0100)	REMARKS
68+78.54	PC	1	Existing Monument
82+18.54	PT	1	Existing Monument
108+15.66	PC	1	Existing Monument
118+96.88	PT	1	Existing Monument
133+37.06	PC	1	Existing Monument
143+14.56	PT	1	Existing Monument
159+00.66	PC	1	Existing Monument
160+67.3	PCC	1	Existing Monument
165+83.97	PCC	1	Existing Monument
167+50.67	PC	1	Existing Monument
169+55.85	PC	1	Existing Monument
170+89.11	PCC	1	Existing Monument
174+85.22	PCC	1	Existing Monument
176+18.62	PT	1	Existing Monument
184+53.05	PC	1	Existing Monument
201+68.05	PT	1	Existing Monument
TOTAL		16	

Legend:
ARV Air Relief Valve Box
AC Asphalt Concrete
DI Drain Inlet
SMH Sewer Manhole
TSB Traffic Signal Box
WMB Water Meter Box
WMH Water Manhole
WVB Water Valve Box



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Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

LEGEND FOR AS-BUILT POSTING
~~~~~ Squiggly line for as-built deletion  
= Double line for as-built deletion  
Roadway Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**UTILITY SCHEDULE**  
MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION  
F.A. Project No. STP-0190(015)  
Scale: As Noted Date: November 2011  
SHEET No. C-50 OF 59 SHEETS

AS-BUILT



SURVEY PLOTTED BY  
MITSUNAGA & ASSOCIATES  
DATE  
AUG. 2011

ORIGINAL  
PLAN  
NOTE BOOK  
No.

DRAWN BY  
MITSUNAGA & ASSOCIATES  
DATE  
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TRACED BY  
MITSUNAGA & ASSOCIATES  
DATE  
AUG. 2011

QUANTITIES BY  
MITSUNAGA & ASSOCIATES  
DATE  
AUG. 2011

CHECKED BY

| STREET SURVEY MONUMENT SCHEDULE |               |                                                                  |                   |
|---------------------------------|---------------|------------------------------------------------------------------|-------------------|
| STATION                         | MONUMENT TYPE | RECONSTRUCT<br>STREET SURVEY<br>MONUMENTS<br>(ITEM No. 614.0100) | REMARKS           |
| 68+78.54                        | PC            | 1                                                                | Existing Monument |
| 82+18.54                        | PT            | 1                                                                | Existing Monument |
| 108+15.66                       | PC            | 1                                                                | Existing Monument |
| 118+96.88                       | PT            | 1                                                                | Existing Monument |
| 133+37.06                       | PC            | 1                                                                | Existing Monument |
| 143+14.56                       | PT            | 1                                                                | Existing Monument |
| 159+00.66                       | PC            | 1                                                                | Existing Monument |
| 160+67.3                        | PCC           | 1                                                                | Existing Monument |
| 165+83.97                       | PCC           | 1                                                                | Existing Monument |
| 167+50.67                       | PC            | 1                                                                | Existing Monument |
| 169+55.85                       | PC            | 1                                                                | Existing Monument |
| 170+89.11                       | PCC           | 1                                                                | Existing Monument |
| 174+85.22                       | PCC           | 1                                                                | Existing Monument |
| 176+18.62                       | PT            | 1                                                                | Existing Monument |
| 184+53.05                       | PC            | 1                                                                | Existing Monument |
| 201+68.05                       | PT            | 1                                                                | Existing Monument |
| TOTAL                           |               | 16                                                               |                   |

| STREET SURVEY MONUMENT SCHEDULE<br>CONTRACTOR RECONSTRUCTED<br>CENTERLINE AND REFERENCE |               |       |      |
|-----------------------------------------------------------------------------------------|---------------|-------|------|
| STATION                                                                                 | MONUMENT TYPE | DEPTH | EACH |
| 41+00.00                                                                                | PC            | 0.20  | 1    |
| 59+06.30                                                                                | PC            | 0.15  | 1    |
| 54+92.00                                                                                | PI            | 0.15  | 1    |
| 68+78.54                                                                                | PC            | 0.23  | 1    |
| 82+18.54                                                                                | PT            | 0.20  | 1    |
| 96+60.00                                                                                | POT           | 0.17  | 1    |
| 103+00.00                                                                               | POT           | 0.22  | 1    |
| 108+15.66                                                                               | PC            | 0.22  | 1    |
| 118+98.99                                                                               | PT            | 0.20  | 1    |
| 124+06.20                                                                               | POT           | 0.19  | 1    |
| 133+37.06                                                                               | PC            | 0.28  | 1    |
| 143+14.56                                                                               | PT            | 0.00  | 1    |
| 159+00.66                                                                               | PC            | 0.15  | 1    |
| 167+50.67                                                                               | PT            | 0.15  | 1    |
| 169+55.85                                                                               | PC            | 0.21  | 1    |
| 176+18.62                                                                               | PT            | 0.25  | 1    |
| 184+53.05                                                                               | PC            | 0.20  | 1    |
| 197+00.00                                                                               | POC           | 0.00  | 1    |
| 201+68.05                                                                               | PT            | 0.20  | 1    |
| 208+10.00                                                                               |               | 0.00  | 1    |
| 211+83.73                                                                               |               | 0.14  | 1    |
| TOTAL MONUMENTS INSTALLED                                                               |               |       | 21   |

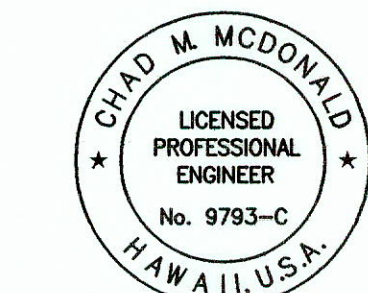
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|------------------------|--------|----------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE  | FEDERAL<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAWAII | STP-0190(015)        | 2011           | C.O.52       | 59              |

LEGEND FOR AS-BUILT POSTING

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting



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me or under my supervision

Chad M. McDonald  
MITSUNAGA & ASSOCIATES, INC. EXP. DATE  
4/30/2016

NOTE: Contractor to check and verify  
dimensions at job before proceeding with work.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

UTILITY SCHEDULE

MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION

F.A. Project No. STP-0190(015)

Scale: As Noted Date: November 2011

SHEET No. C-50AOF 59 SHEETS

“AS-BUILT”

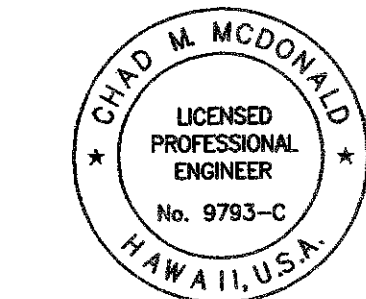


| FED. ROAD DIST. NO. | STATE  | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|-------------------|-------------|-----------|--------------|
| HAWAII              | HAWAII | STP-0190(015)     | 2011        | 53        | 59           |

LANE AND SHOULDER WIDTH SCHEDULE

| BEGIN STATION | END STATION | INTERSECTION            | TRAVEL WIDTH (FT.) | AVERAGE SHOULDER WIDTH (FT.) | TRAVEL WAY (S.F.) | SHOULDER (S.F.) | COLD PLANING 1/2" THICK (S.F.) | RECONSTRUCTION AREA (S.F.) |
|---------------|-------------|-------------------------|--------------------|------------------------------|-------------------|-----------------|--------------------------------|----------------------------|
| 40+00         | 42+96       |                         | 11                 | 6                            | 8,056             | 1,795           | 8,056                          | 0                          |
| 42+96         | 44+40       | N Kona Belt Rd          | 11                 | 6                            | 8,902             | 2,231           | 8,902                          | 0                          |
| 44+40         | 52+46       |                         | 18                 | 6                            | 27,969            | 10,791          | 27,969                         | 2,808                      |
| 52+46         | 53+45       | Hina Lani St            | 11                 | 6                            | 5,364             | 940             | 5,364                          | 2,797                      |
| 53+45         | 54+57       |                         | 22                 | 6                            | 4,603             | 1,157           | 4,603                          | 4,117                      |
| 54+57         | 55+17       | Onaona Drive            | 11                 | 6                            | 3,135             | 710             | 3,135                          | 0                          |
| 55+17         | 84+09       |                         | 18                 | 6                            | 66,315            | 39,550          | 66,315                         | 31,856                     |
| 84+09         | 85+02       | Makalapua Rd            | 11                 | 7                            | 3,099             | 1,626           | 3,099                          | 2,062                      |
| 85+02         | 87+43       |                         | 11                 | 7                            | 5,478             | 3,873           | 5,478                          | 4,335                      |
| 87+43         | 88+15       | Mauka Rd                | 11                 | 6                            | 3,296             | 1,664           | 3,296                          | 892                        |
| 88+15         | 96+02       |                         | 11                 | 7                            | 17,618            | 10,842          | 17,618                         | 11,158                     |
| 96+02         | 97+21       | Kaloka Drive            | 11                 | 6                            | 4,483             | 1,615           | 4,483                          | 1,718                      |
| 97+21         | 102+46      |                         | 11                 | 6                            | 11,585            | 6,481           | 11,585                         | 7,965                      |
| 102+46        | 103+30      | Lihau St                | 11                 | 6                            | 3791              | 1286            | 3,791                          | 3771                       |
| 103+30        | 123+69      |                         | 11                 | 7                            | 51,307            | 40,743          | 51,307                         | 29327                      |
| 123+69        | 124+42      | Hamo St                 | 11                 | 6                            | 2606              | 888             | 2,606                          | 783                        |
| 124+42        | 125+26      |                         | 11                 | 6                            | 1,871             | 1,016           | 1,871                          | 908                        |
| 125+26        | 125+83      | Ooma Place              | 11                 | 6                            | 1940              | 751             | 1,940                          | 601                        |
| 125+83        | 127+66      |                         | 11                 | 6                            | 4,099             | 2,972           | 4,099                          | 1,981                      |
| 127+66        | 128+30      | Akina Place             | 11                 | 6                            | 2136              | 948             | 2,136                          | 689                        |
| 128+30        | 132+55      |                         | 11                 | 6                            | 9,443             | 7,003           | 9,443                          | 4,421                      |
| 132+55        | 133+31      | Old Mauka Government Rd | 11                 | 6                            | 2628              | 1077            | 2,628                          | 910                        |
| 133+31        | 146+39      |                         | 11                 | 7                            | 31,236            | 20,099          | 31,236                         | 20,726                     |
| 146+39        | 147+10      | Kalaoa St               | 11                 | 6                            | 3011              | 933             | 3,011                          | 1,895                      |
| 147+10        | 150+07      |                         | 18                 | 7                            | 10,862            | 4,783           | 10,862                         | 9,092                      |
| 150+07        | 151+83      | Kaiminani               | 11                 | 6                            | 8567              | 1679            | 8,567                          | 5,268                      |
| 151+83        | 159+56      |                         | 18                 | 6                            | 23,051            | 11,908          | 23,051                         | 19,607                     |
| 159+56        | 160+47      | Old Mauka Government Rd | 11                 | 6                            | 3812              | 1632            | 3,812                          | 3,777                      |
| 160+47        | 169+76      |                         | 11                 | 6                            | 20,600            | 11,291          | 20,600                         | 20,239                     |
| 169+76        | 170+82      | Ahikawa St              | 11                 | 6                            | 3682              | 1219            | 3,682                          | 2,510                      |
|               |             |                         |                    |                              | 354,545           | 193,503         | 354,545                        | 196,213                    |

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY       | DATE |
| QUANTITIES BY     | DATE |
| CHECKED BY        | DATE |



This work was prepared by me or under my supervision

Chad M. McDonald 4/30/2018  
MITSUNAGA & ASSOCIATES, INC. EXP. DATE  
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

RECONSTRUCTION SCHEDULE

MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION  
F.A. Project No. STP-0190(015)

Scale: As Noted Date: November 2011

SHEET No. C-51 OF 59 SHEETS



| FED. ROAD DIST. NO. | STATE  | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|-------------------|-------------|-----------|--------------|
| HAWAII              | HAWAII | STP-0190(015)     | 2011        | 54        | 59           |

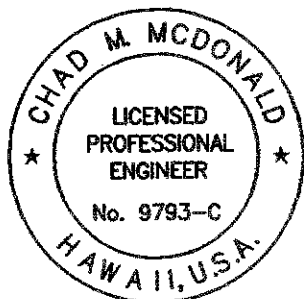
LANE AND SHOULDER WIDTH SCHEDULE (CONTINUED)

| BEGIN STATION | END STATION | INTERSECTION  | TRAVEL WIDTH (FT.) | AVERAGE SHOULDER WIDTH (FT.) | TRAVEL WAY (S.F.) | SHOULDER (S.F.) | COLD PLANING 1/2" THICK (S.F.) | RECONSTRUCTION AREA (S.F.) |
|---------------|-------------|---------------|--------------------|------------------------------|-------------------|-----------------|--------------------------------|----------------------------|
| 170+82        | 176+75      |               | 11                 | 7                            | 13,360            | 8,023           | 13,360                         | 7,562                      |
| 176+75        | 177+29      |               | 11                 | 7                            | 1617              | 677             | 1,617                          | 853                        |
| 177+29        | 178+32      |               | 11                 | 7                            | 2,324             | 1,407           | 2,324                          | 2,349                      |
| 178+32        | 179+3       | Loloa Drive   | 11                 | 6                            | 3233              | 1236            | 3,233                          | 2,213                      |
| 179+3         | 184+7       |               | 11                 | 6                            | 12,001            | 7,468           | 12,001                         | 12,071                     |
| 184+7         | 185+28      | Donahue Rd    | 11                 | 7                            | 2018              | 814             | 2,018                          | 1,430                      |
| 185+28        | 186+83      |               | 11                 | 7                            | 3,330             | 2,051           | 3,330                          | 3,272                      |
| 186+83        | 187+68      | Mahilani St   | 11                 | 6                            | 3009              | 1105            | 3,009                          | 1,845                      |
| 187+68        | 197+43      |               | 11                 | 7                            | 22,344            | 13,504          | 22,344                         | 20,097                     |
| 197+43        | 198+18      | Kaalele St    | 11                 | 6                            | 3353              | 821             | 3,353                          | 1,340                      |
| 198+18        | 201+67      |               | 11                 | 6                            | 9,117             | 4,206           | 9,117                          | 3,895                      |
| 201+67        | 202+3       |               | 11                 | 6                            | 2358              | 758             | 2,358                          | 720                        |
| 202+3         | 202+96      | Makaula Rd    | 11                 | 6                            | 2,615             | 963             | 2,615                          | 0                          |
| 202+96        | 207+33      |               | 15                 | 6                            | 13,651            | 5,176           | 13,651                         | 0                          |
| 207+33        | 209+53      | Makalei Drive | 11                 | 6                            | 10042             | 2348            | 10,042                         | 0                          |
| 209+53        | 215         |               | 11                 | 6                            | 13,786            | 6,558           | 13,786                         | 0                          |
|               |             |               |                    |                              | 118,158           | 57,115          | 118,158                        | 57,647                     |
|               |             |               |                    |                              | 472,703           | 250,618         | 472,703                        | 253,860                    |

TRAFFIC LOOP DETECTOR RECONSTRUCTION

| STATION | OFFSET FROM LEFT | RIGHT |
|---------|------------------|-------|
| 52+12   | 5                |       |
| 52+62   | 5                |       |
| 52+62   |                  | 5     |
| 53+39   | 17               |       |
| 55+49   | 13               |       |

|               |             |      |
|---------------|-------------|------|
| ORIGINAL PLAN | DESIGNED BY | DATE |
| NOTED BOOK    | DESIGNED BY | DATE |
|               | DESIGNED BY | DATE |
|               | DESIGNED BY | DATE |



This work was prepared by me or under my supervision

4/30/2018  
MITSUNAGA & ASSOCIATES, INC. EXP. DATE  
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**RECONSTRUCTION SCHEDULE**  
MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION  
F.A. Project No. STP-0190(015)  
Scale: As Noted Date: November 2011  
SHEET No. C-52 OF 59 SHEETS



| FED. ROAD DIST. NO. | STATE  | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|-------------------|-------------|-----------|--------------|
| HAWAII              | HAWAII | STP-0190(015)     | 2011        | 54        | 59           |

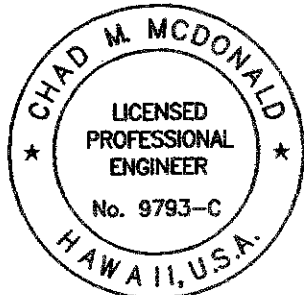
LANE AND SHOULDER WIDTH SCHEDULE (CONTINUED)

| BEGIN STATION | END STATION | INTERSECTION  | TRAVEL WIDTH (FT.) | AVERAGE SHOULDER WIDTH (FT.) | TRAVEL WAY (S.F.) | SHOULDER (S.F.) | COLD PLANING 1/2" THICK (S.F.) | RECONSTRUCTION AREA (S.F.) |
|---------------|-------------|---------------|--------------------|------------------------------|-------------------|-----------------|--------------------------------|----------------------------|
| 170+82        | 176+75      |               | 11                 | 7                            | 13,360            | 8,023           | 13,360                         | 7,562                      |
| 176+75        | 177+29      |               | 11                 | 7                            | 1617              | 677             | 1,617                          | 853                        |
| 177+29        | 178+32      |               | 11                 | 7                            | 2,324             | 1,407           | 2,324                          | 2,349                      |
| 178+32        | 179+3       | Loloa Drive   | 11                 | 6                            | 3233              | 1236            | 3,233                          | 2,213                      |
| 179+3         | 184+7       |               | 11                 | 6                            | 12,001            | 7,468           | 12,001                         | 12,071                     |
| 184+7         | 185+28      | Donahue Rd    | 11                 | 7                            | 2018              | 814             | 2,018                          | 1,430                      |
| 185+28        | 186+83      |               | 11                 | 7                            | 3,330             | 2,051           | 3,330                          | 3,272                      |
| 186+83        | 187+68      | Mahilani St   | 11                 | 6                            | 3009              | 1105            | 3,009                          | 1,845                      |
| 187+68        | 197+43      |               | 11                 | 7                            | 22,344            | 13,504          | 22,344                         | 20,097                     |
| 197+43        | 198+18      | Kaalele St    | 11                 | 6                            | 3353              | 821             | 3,353                          | 1,340                      |
| 198+18        | 201+67      |               | 11                 | 6                            | 9,117             | 4,206           | 9,117                          | 3,895                      |
| 201+67        | 202+3       |               | 11                 | 6                            | 2358              | 758             | 2,358                          | 720                        |
| 202+3         | 202+96      | Makaula Rd    | 11                 | 6                            | 2,615             | 963             | 2,615                          | 0                          |
| 202+96        | 207+33      |               | 15                 | 6                            | 13,651            | 5,176           | 13,651                         | 0                          |
| 207+33        | 209+53      | Makalei Drive | 11                 | 6                            | 10042             | 2348            | 10,042                         | 0                          |
| 209+53        | 215         |               | 11                 | 6                            | 13,786            | 6,558           | 13,786                         | 0                          |
|               |             |               |                    |                              | 118,158           | 57,115          | 118,158                        | 57,647                     |
|               |             |               |                    |                              | 472,703           | 250,618         | 472,703                        | 253,860                    |

TRAFFIC LOOP DETECTOR RECONSTRUCTION

| STATION | OFFSET FROM LEFT | RIGHT |
|---------|------------------|-------|
| 52+12   | 5                |       |
| 52+62   | 5                |       |
| 52+62   |                  | 5     |
| 53+39   | 17               |       |
| 55+49   | 13               |       |

|                   |                        |
|-------------------|------------------------|
| ORIGINAL PLAN     | DATE                   |
| SURVEY PLOTTED BY | Aug. 2011              |
| DRAWN BY          | Mitsunaga & Associates |
| DESIGNED BY       | Mitsunaga & Associates |
| CHECKED BY        | Mitsunaga & Associates |



This work was prepared by me or under my supervision

Chad M. McDonald  
MITSUNAGA & ASSOCIATES, INC. EXP. DATE 4/30/2016  
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**RECONSTRUCTION SCHEDULE**  
MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION  
F.A. Project No. STP-0190(015)  
Scale: As Noted Date: November 2011  
SHEET No. C-52 OF 59 SHEETS



|                        |        |                      |                |              |                 |
|------------------------|--------|----------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE  | FEDERAL<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAWAII | STP-0190(015)        | 2011           | 55           | 59              |

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

| STATION  | LEFT | RIGHT | MILE<br>POST | TYPE                                                           | RM-3 ATTACHED<br>TO SIGN POST | SIGN TO<br>REMAIN | REMOVE           | INSTALL<br>(10 SQ.<br>FT. OR<br>LESS) | SIGNS > 10<br>SQ. FT. | DESTINATION<br>SIGN PANEL<br>(SQ. FT.) | *MILE<br>POST<br>MARKER<br>W/ POST<br>(Bi-Dir) | RM-4<br>W/POST<br>(Bi-Dir) | REMARKS |
|----------|------|-------|--------------|----------------------------------------------------------------|-------------------------------|-------------------|------------------|---------------------------------------|-----------------------|----------------------------------------|------------------------------------------------|----------------------------|---------|
|          |      |       |              |                                                                |                               |                   |                  | W/POST                                |                       |                                        |                                                |                            |         |
| 40+54    | X    |       | 35.35        | M1-"END STATE HIGHWAY" 18"x18"                                 | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 40+80    |      | X     | 35.35        | M1-"Kona Heritage Corridor" 24"x30"                            | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 40+98    |      | X     | 35.34        | M1-"BEGIN STATE HIGHWAY" 18"x18"                               | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 41+42 96 | X    |       | 35.33        | W1-5R 36"x36", W13-1(30) 18"x18"                               | 1                             |                   | 1                | <del>1</del> 1                        |                       |                                        |                                                |                            |         |
| 41+54    |      | X     | 35.33        | R10-7 24"x30"                                                  | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 41+96 96 | X    |       | 35.32        | W7-1 48"x48", W7-2b 18"x24"                                    | 2                             |                   | 1                | <del>1</del> 1                        | 1                     |                                        |                                                |                            |         |
| 42+12    |      | X     | 35.32        | D1-"Holualoa 5 # Waimea 36" 48"x96"                            | 3                             |                   | 1                |                                       |                       | 32                                     |                                                |                            |         |
| 42+79    | X    |       | 35.31        | M1-6(11) 24"x24"                                               | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 42+85    |      | X     | 35.31        | M1-6(11) 24"x24", M1-6(11) 24"x24", M6-3 15"x24", M6-1 15"x24" | 1                             |                   | 1                | 1                                     | 3                     |                                        |                                                |                            |         |
| 43+31    |      | X     | 35.30        | R1-2 36"                                                       | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 43+61    | X    |       | 35.29        | D1-"Kailua 4 # Waimea 36" 48"x108"                             | 3                             |                   | 1                |                                       |                       | 36                                     |                                                |                            |         |
| 43+77    |      | X     | 35.29        | R1-1 36"x36"                                                   | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 43+95    |      | X     | 35.29        | M1-6(11) 24"x24"                                               | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 44+03    | X    |       | 35.28        | M1-6(11) 24"x24", M1-6(11) 24"x24", M6-1 15"x24", M6-3 15"x24" | 1                             |                   | 1                | 1                                     | 3                     |                                        |                                                |                            |         |
| 44+07    |      | X     | 35.28        | R1-1 36"x36"                                                   | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 44+42    |      | X     | 35.28        | M1-6 (11) 24"x24"                                              | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 45+49    | X    |       | 35.26        | W7- "Runaway truck ramp closed" 48"x78"                        | 2                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 45+50    |      | X     | 35.26        | W2-2L 36"x36"                                                  | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 46+01    | X    |       | 35.25        | W5-1 36"x36"                                                   | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 46+73    | X    |       | 35.23        | D1-"Kailua 4 # Holualoa 5" 48"x102"                            | ws                            |                   | 1                |                                       |                       | 34                                     |                                                |                            |         |
| 47+33    |      | X     | 35.22        | R2-1(35) 24"x30"                                               | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 47+33    | X    |       | 35.22        | M1 "Kona Heritage Corridor" 24"x30"                            | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 47+60    | X    |       | 35.22        | R2-1(35)-B 36"x48"                                             | 2                             |                   | 1                |                                       | 1                     |                                        |                                                |                            |         |
| 48+03    | X    |       | 35.21        | R3-40L 36"x36"                                                 | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 49+34    |      | X     | 35.18        | W3-3 36"x36"                                                   | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 50+06    |      | X     | 35.17        | R3-40L 36"x36"                                                 | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 51+07    |      | X     | 35.15        | Adopt a Highway Sign 60"x24"                                   | 2                             |                   | 1                |                                       |                       | 10                                     |                                                |                            |         |
| 54+37    |      | X     | 35.09        | M3-1 24"x12", M1-6 (11) 24"x24"                                | 1                             |                   | 1                | 1                                     | 1                     |                                        |                                                |                            |         |
| 54+80    | X    |       | 35.08        | R3-40L 36"x36"                                                 | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 55+12    |      | X     | 35.07        | R1-1 36"x36"                                                   | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
| 53+50    | X    |       |              | R1-1 36"                                                       | 1                             |                   | 1                | 1                                     |                       |                                        |                                                |                            |         |
|          |      |       |              | SUBTOTAL                                                       | <del>40</del> 41              |                   | <del>30</del> 31 | <del>26</del> 25                      | <del>7</del> 9        | 2                                      | 112                                            | 0                          |         |

|               |           |
|---------------|-----------|
| ORIGINAL PLAN | DATE      |
| NOTED BY      | Aug. 2011 |
| DESIGNED BY   | Aug. 2011 |
| QUANTITIES BY | Aug. 2011 |
| CHECKED BY    | Aug. 2011 |

LEGEND FOR AS-BUILT POSTING  
~~~~~ Squiggly line for as-built deletion  
===== Double line for as-built deletion
Roadway Text for as-built posting

CHAD M. McDONALD
★
LICENSED
PROFESSIONAL
ENGINEER
No. 9793-C
★
HAWAII, U.S.A.

This work was prepared by
me or under my supervision

Chad M. McDonald 4/30/2016
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify
dimensions of job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGN REPLACEMENT, REMOVAL
AND INSTALLATION SCHEDULE**
MAMALAHOA HIGHWAY RESURFACING
MAKALEI TO PALANI ROAD JUNCTION
F.A. Project No. STP-0190(015)
Scale: As Noted Date: November 2011
SHEET No. C-53 OF 59 SHEETS

AS-BUILT

| | | | | | |
|---------------------|--------|-------------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | FEDERAL PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII | HAWAII | STP-0190(015) | 2011 | 56 | 59 |

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

| STATION | LEFT | RIGHT | MILE POST | TYPE | RM-3 ATTACHED TO SIGN POST | SIGN TO REMAIN | REMOVE | INSTALL (10 SQ. FT. OR LESS) | | SIGNS > 10 SQ.FT. | DESTINATION SIGN PANEL (SQ. FT.) | *MILE POST MARKER W/ POST (Bi-Dir) | RM-4 W/POST (Bi-Dir) | REMARKS |
|----------|------|-------|-----------|--|----------------------------|----------------|--------|------------------------------|----------|-------------------|----------------------------------|------------------------------------|----------------------|----------|
| | | | | | | | | W/POST | W/O POST | | | | | |
| 55+16 | X | | 35.07 | W3-3 36"x36" | 1 | | 1 | 1 | | | | | | |
| 57+00 | X | | 35.04 | R16-1A 18"x24" | 1 | | 1 | 1 | | | | | | |
| 59+02 | X | | 35.00 | D10-6 12"x48" | 1 | | 1 | ± | | | | 1 | | 35/190 |
| 59+74 | | X | 34.99 | R4-2 24"x30" | 1 | | 1 | 1 | | | | | | |
| 60+26 | | X | 34.98 | W14-3 36"x48"x48" | 1 | | 1 | 1 | | | | | | |
| 60+68 | X | | 34.97 | R2-1(35)-B 36"x48" | 2 | | 1 | ± | | 1 | | | | |
| 62+48 | X | | 34.93 | W2-7L 36"x36", D1-1a "HINA-LANI ST" 30"x6" | 1 | | 1 | 1 | | | | | | |
| 62+66 | | X | 34.93 | R2-1(45)-B 36"x48" | 2 | | 1 | | | 1 | | | | |
| 66+29 | X | | 34.86 | R2-1(35)-B 36"x48" | 2 | | 1 | | | 1 | | | | |
| 77+74 | | X | 34.65 | W2-2R 36"x36", D1-1a "MAKALAPUA RD" 30"x6" | 1 | | 1 | 1 | 1 | | | | | |
| 78+79 | X | | 34.63 | W14-3 36"x48"x48" | 1 | | 1 | 1 | | | | | | |
| 84+25 | X | | 34.52 | R4-2 24"x30" | 1 | | 1 | 1 | | | | | | |
| 84+73 | | X | 34.51 | R1-1 36"x36", D1-1a "MAKALAPUA RD" 30"x6" | 1 | | 1 | 1 | | | | | | |
| 85+43 | X | | 34.50 | D10-2a 12"x48" | 1 | | 1 | ± | | | | 1 | | 34.5/190 |
| 87+58 | X | | 34.47 | R1-1 36"x36" | 1 | | 1 | 1 | | | | | | |
| 91+56 | X | | 34.39 | W2-2R 36"x36" | 1 | | 1 | 1 | | | | | | |
| 91+83 | | X | 34.39 | W2-2R 36"x36", D1-1a "KALAKO DRIVE" 30"x6" | 1 | | 1 | 1 | 1 | | | | | |
| 93+00 | | X | 34.36 | R2-1(45)-B (36"x48") | 2 | | 1 | | | 1 | | | | |
| 94+15 | | X | 34.34 | "ELEVATION 1500 ft" (30"x24") | 1 | | 1 | | | | 5 | | | |
| 94+27 | X | | 34.34 | "ELEVATION 1500 ft" (30"x24") | 1 | | 1 | | | | 5 | | | |
| 96+81 | | X | 34.29 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 101+58 | X | | 34.20 | W2-2L (36"x36"), D1-1a "KALAKO DRIVE" (30"x6") | 1 | | 1 | 1 | 1 | | | | | |
| 103+14 | | X | 34.17 | R1-1 (36"x36"), D1-1a "LIHAU ST." 30"x6" | 1 | | 1 | 1 | | | | | | |
| 107+02 | X | | 34.10 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 111+58 | X | | 34.01 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 112+21 | X | | 34.00 | D10-6 12"x48" | 1 | | 1 | ± | | | | 1 | | 34/190 |
| 112+52 | X | | 33.99 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 118+22 | | X | 33.88 | W2-7L (36"x36"), D1-1a "OOMA PL" (30"x6") | 1 | | 1 | 1 | 1 | | | | | |
| 119+30 | X | | 33.86 | W14-3 (36"x48"x48") | 1 | | 1 | 1 | | | | | | |
| 123+81 | X | | 33.77 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 125+74 | | X | 33.74 | R1-1 (36"x36"), D1-1a "OOMA PL." 30"x6" | 1 | | 1 | 1 | | | | | | |
| 127+79 | | X | 33.70 | W14-1(30"x30") | 1 | | 1 | 1 | | | | | | |
| 128+11 | | X | 33.69 | R1-1 (36"x36"), D1-1a "AKINA PL" 30"x6" | 1 | | 1 | 1 | | | | | | |
| 128+35 | X | | 33.69 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 128+70 | X | | 33.68 | W14-1(30"x30") | 1 | | 1 | 1 | | | | | | |
| 118+95 | | X | 33.86 | R4-1 (24"x30") | 1 | | 1 | 1 | | | | | | |
| SUBTOTAL | | | | | 39 40 | | 35 36 | 36 27 | 4 | 4 | | | | |

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| QUANTITIES BY | |
| CHECKED BY | |

ORIGINAL PLAN

NOTE BOOK

No.

LEGEND FOR AS-BUILT POSTING
Squiggly line for as-built deletion
Double line for as-built deletion
Roadway Text for as-built posting

CHAD M. MCDONALD

LICENSED PROFESSIONAL ENGINEER

No. 9793-C

HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chad M. McDonald

4/30/2016

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

SIGN REPLACEMENT, REMOVAL AND INSTALLATION SCHEDULE

MAMALAHOA HIGHWAY RESURFACING

MAKALEI TO PALANI ROAD JUNCTION

F.A. Project No. STP-0190(015)

Scale: As Noted

Date: November 2011

SHEET No. C-54 OF 59 SHEETS

AS-BUILT

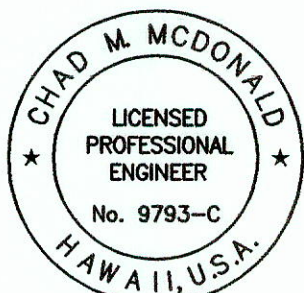
| | | | | | |
|------------------------|--------|----------------------|----------------|--------------|-----------------|
| FED. ROAD
DIST. NO. | STATE | FEDERAL
PROJ. NO. | FISCAL
YEAR | SHEET
NO. | TOTAL
SHEETS |
| HAWAII | HAWAII | STP-0190(015) | 2011 | 57 | 59 |

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE

| STATION | LEFT | RIGHT | MILE
POST | TYPE | RM-3 ATTACHED
TO SIGN POST | SIGN TO
REMAIN | REMOVE | INSTALL (10 SQ. FT. OR
LESS) | | SIGNS > 10
SQ.FT. | DESTINATION
SIGN PANEL
(SQ. FT.) | *MILE POST
MARKER W/
POST (Bi-Dir) | RM-4
W/POST
(Bi-Dir) | REMARKS |
|---------|------|-------|--------------|---|-------------------------------|-------------------|--------|---------------------------------|----------|----------------------|--|--|----------------------------|----------|
| | | | | | | | | W/POST | W/O POST | | | | | |
| 130+79 | X | | 33.64 | W2-2L (36"x36") | 1 | | 1 | 1 | | | | | | |
| 133+06 | | X | 33.60 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 138+22 | X | | 33.50 | D10-2a (12"x48") | 1 | | 1 | ± | | | | 1 | | 33.5/190 |
| 141+13 | X | | 33.45 | R2-1(45)-B | 2 | | 1 | 1 | | | | | | |
| 143+03 | | X | 33.41 | W2-2L (36"x36"), D1-1a "KAIMINANI DR" (30"x6") | 1 | | 1 | 1 | 1 | | | | | |
| 143+86 | | X | 33.39 | R3-40L (36"x36") | 1 | | 1 | 1 | | | | | | |
| 145+28 | | X | 33.36 | W11-2 (36"x36"), W16-9P-A (30"x18") | 1 | | 1 | 1 | | | | | | |
| 146+98 | | X | 33.33 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 147+19 | X | | 33.33 | M1-6(11) (24"x24") | 1 | | 1 | 1 | | | | | | |
| 148+35 | X | | 33.31 | R16-1A (36"x48") | 1 | | 1 | | | 1 | | | | |
| 148+94 | X | | 33.30 | R16-1A (36"x48") | 1 | | 1 | | | 1 | | | | |
| 149+76 | | X | 33.28 | R3-40L (36"x36") | 1 | | 1 | 1 | | | | | | |
| 150+34 | X | | 33.27 | W11-2 (36"x36"), W16-7p(L)-A (30"x18") | 1 | | 1 | 1 | | | | | | |
| 150+44 | | X | 33.27 | W11-2 (36"x36"), W16-7p(L)-A (30"x18") | 1 | | 1 | 1 | | | | | | |
| 150+56 | X | | 33.27 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 150+85 | X | | 33.26 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 150+89 | | X | 33.26 | W1-7 (24"x48") | 2 | | 1 | 1 | | | | | | |
| 151+87 | | X | 33.24 | M1-6 (11) 24"x24" | 1 | | 1 | 1 | | | | | | |
| 152+83 | | X | 33.22 | R16-1A (36"x48") | 1 | | 1 | | | 1 | | | | |
| 155+81 | X | | 33.17 | W2-2R (36"x36"), D1-1a "KAIMINANI DRIVE" (30"x6") | 1 | | 1 | 1 | 1 | | | | | |
| 156+68 | | X | 33.15 | R2-1(45)-B (36"x48") | 2 | | 1 | | | 1 | | | | |
| 156+90 | X | | 33.15 | W11-2 (36"x36"), W16-9p(L)-A (30"x18") | 1 | | 1 | 1 | | | | | | |
| 157+60 | | X | 33.13 | W1-2L (36"x36") | 1 | | 1 | 1 | | | | | | |
| 160+14 | | X | 33.09 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 161+85 | X | | 33.05 | Adopt a Highway Sign 60"x24" | 2 | | 1 | | | | 10 | | | |
| 164+63 | X | | 33.00 | D10-6 12"x48" | 1 | | 1 | ± | | | | 1 | | 33/190 |
| 166+00 | | X | 32.97 | W2-2L (36"x36") | 1 | | 1 | 1 | | | | | | |
| 166+71 | | X | 32.96 | Adopt a Highway Sign (60"x24"), "WEST HAWAII
HGEA" (60"x12") | 2 | | 1 | | | | 10 | | | |
| 168+72 | X | | 32.92 | W1-2R (36"x36") | 1 | | 1 | 1 | | | | | | |
| 169+04 | X | | 32.92 | R7-1-A (24"x30") | 1 | | 1 | 1 | | | | | | |
| 170+13 | X | | 32.90 | R1-1 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 171+02 | | X | 32.88 | W11-2 (36"x36") | 1 | | 1 | 1 | | | | | | |
| 173+60 | X | | 32.83 | W2-2R (36"x36") | 1 | | 1 | 1 | | | | | | |
| 174+81 | | X | 32.81 | W2-2L (36"x36"), D1-1a "LOLOA DR" (30"x6") | 1 | | 1 | 1 | 1 | | | | | |
| | | | | SUBTOTAL | 39 | | 34 | 26 | 3 | 4 | 20 | 2 | | |

| | | |
|------------------|-------------------|-----------|
| ORIGINAL
PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DESIGNED BY | AUG. 2011 |
| | CHECKED BY | AUG. 2011 |

LEGEND FOR AS-BUILT POSTING
~~~~~ Squiggly line for as-built deletion  
~~±±±±~~ Double line for as-built deletion  
Roadway Text for as-built posting



This work was prepared by  
me or under my supervision

4/30/2016  
MITSUNAGA & ASSOCIATES, INC. EXP. DATE  
NOTE: Contractor to check and verify  
dimensions at job before proceeding with work.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**SIGN REPLACEMENT, REMOVAL  
AND INSTALLATION SCHEDULE**  
MAMALAHOA HIGHWAY RESURFACING  
MAKALEI TO PALANI ROAD JUNCTION  
F.A. Project No. STP-0190(015)  
Scale: As Noted Date: November 2011  
SHEET No. C-55 OF 59 SHEETS

"AS-BUILT"



|                        |        |                      |                |              |                 |
|------------------------|--------|----------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE  | FEDERAL<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAWAII | STP-0190(015)        | 2011           | 58           | 59              |

| SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE |      |       |           |                                                   |                            |                |        |                              |          |                   |                                  |                                    |                      |          |
|------------------------------------------------------|------|-------|-----------|---------------------------------------------------|----------------------------|----------------|--------|------------------------------|----------|-------------------|----------------------------------|------------------------------------|----------------------|----------|
| STATION                                              | LEFT | RIGHT | MILE POST | TYPE                                              | RM-3 ATTACHED TO SIGN POST | SIGN TO REMAIN | REMOVE | INSTALL (10 SQ. FT. OR LESS) |          | SIGNS > 10 SQ.FT. | DESTINATION SIGN PANEL (SQ. FT.) | *MILE POST MARKER W/ POST (Bi-Dir) | RM-4 W/POST (Bi-Dir) | REMARKS  |
|                                                      |      |       |           |                                                   |                            |                |        | W/POST                       | W/O POST |                   |                                  |                                    |                      |          |
| 177+23                                               |      | X     | 32.76     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 178+37                                               |      | X     | 32.74     | WI1-2 (36"x36"), WI6-7P(L)-A (30"x18")            | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 178+59                                               | X    |       | 32.74     | WI1-2 (36"x36"), WI6-7P(L)-A (30"x18")            | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 178+65                                               | X    |       | 32.73     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 180+27                                               |      | X     | 32.70     | W2-2L (36"x36"), DI-1a "MAHILLANI DRIVE" (30"x6") | 1                          |                | 1      | 1                            | 1        |                   |                                  |                                    |                      |          |
| 181+16                                               | X    |       | 32.69     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 182+30                                               | X    |       | 32.67     | W2-2R (36"x36"), DI-1a "LOALOA DRIVE" (30"x6")    | 1                          |                | 1      | 1                            | 1        |                   |                                  |                                    |                      |          |
| 185+22                                               |      | X     | 32.61     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 186+08                                               | X    |       | 32.59     | WI1-2 (36"x36"), WI6-9P-A (30"x18")               | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 187+08                                               | X    |       | 32.57     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 189+80                                               | X    |       | 32.52     | Entering Banana Virus Quarantine Area (36"x36")   | 2                          |                | 1      |                              |          |                   | 10                               |                                    |                      |          |
| 191+03                                               | X    |       | 32.50     | DI0-2a (12"x48")                                  | 1                          |                | 1      | <del>1</del>                 |          |                   |                                  | 1                                  |                      | 32.5/190 |
| 193+34                                               | X    |       | 32.47     | R4-1 (24"x30")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 194+75                                               | X    |       | 32.42     | W2-2R (36"x36"), DI-1a "MAHILANI DRIVE" (30"x6")  | 1                          |                | 1      | 1                            | 1        |                   |                                  |                                    |                      |          |
| 197+52                                               |      | X     | 32.42     | W2-2L (36"x36")                                   | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 197+55                                               | X    |       | 32.42     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 197+75                                               | X    |       | 32.41     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 198+19                                               | X    |       | 32.33     | RI-2 36"                                          | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 202+18                                               |      | X     | 32.33     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 202+37                                               | X    |       | 32.33     | R7-1-A (24"x30")                                  | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 202+44                                               | X    |       | 32.31     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 203+29                                               |      | X     | 32.23     | W2-2L (36"x36"), DI-1a "MAKALEI DRIVE" (30"x6")   | 1                          |                | 1      | 1                            | 1        |                   |                                  |                                    |                      |          |
| 207+84                                               | X    |       | 32.21     | RI-1 (36"x36"), DI-1a "MAKALEI DRIVE"(30"x6")     | 1                          |                | 1      | 1                            | 1        |                   |                                  |                                    |                      |          |
| 208+41                                               | X    |       | 32.14     | RI-1 (36"x36")                                    | 1                          |                | 1      | 1                            |          |                   |                                  |                                    |                      |          |
| 212+19                                               |      | X     | 32.14     | R2-1(50)-B (36"x48")                              | 1                          |                | 1      |                              |          | 1                 |                                  | <del>1</del>                       |                      |          |
| 212+27                                               | X    |       | 32.13     | R2-1(45)-B (36"x48")                              | 1                          |                | 1      |                              |          | 1                 |                                  |                                    |                      |          |
| 212+95                                               | X    |       | 32.12     | W2-2R (36"x36"), DI-1a "MAKALEI DRIVE" (30"x6")   | 1                          |                | 1      | 1                            | 1        |                   |                                  |                                    |                      |          |
|                                                      |      |       |           |                                                   |                            |                |        |                              |          |                   |                                  |                                    |                      |          |
|                                                      |      |       |           | SUBTOTAL                                          | 28                         |                | 27     | 23                           | 6        | 2                 | 10                               | <del>2</del> 1                     |                      |          |
|                                                      |      |       |           | TOTAL                                             | <del>146</del> 148         |                | 126    | <del>108</del> 101           | 20       | 11                | 152                              | <del>7</del> 6                     |                      |          |

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |

ORIGINAL PLAN

NOTE BOOK

No.

| LEGEND FOR AS-BUILT POSTING |                                     |
|-----------------------------|-------------------------------------|
|                             | Squiggly line for as-built deletion |
|                             | Double line for as-built deletion   |
| Roadway                     | Text for as-built posting           |

CHAD M. McDONALD

LICENSED PROFESSIONAL ENGINEER

No. 9793-C

HAWAII, U.S.A.

This work was prepared by me or under my supervision

4/30/2016

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

SIGN REPLACEMENT, REMOVAL AND INSTALLATION SCHEDULE

MAMALAHOA HIGHWAY RESURFACING

MAKALEI TO PALANI ROAD JUNCTION

F.A. Project No. STP-0190(015)

Scale: As Noted

Date: November 2011

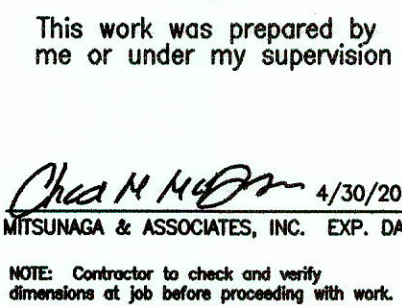
SHEET No. C-56 OF 59 SHEETS

“AS-BUILT”



| STRIPING AND PAVEMENT MARKING SCHEDULE |        |                |       |                                |                             |                  |                            |                             |                        |                            |                           |                      |                     |                    |                   |          |       |             |                         |       |     |    |     |     |
|----------------------------------------|--------|----------------|-------|--------------------------------|-----------------------------|------------------|----------------------------|-----------------------------|------------------------|----------------------------|---------------------------|----------------------|---------------------|--------------------|-------------------|----------|-------|-------------|-------------------------|-------|-----|----|-----|-----|
| STATION                                |        | TRAFFIC REGIME |       | THERMOPLASTIC EXTRUSION (L.F.) |                             |                  |                            |                             |                        |                            |                           |                      |                     |                    |                   |          |       |             | PAVEMENT MARKERS (Each) |       |     |    |     |     |
| Start                                  | End    | Left           | Right | 4" Double Yellow (L.F.)        | 4" Yellow Guidelines (L.F.) | 4" Yellow (L.F.) | 12" Yellow Diagonal (L.F.) | 4" White E.P. Stripe (L.F.) | 8" White Stripe (L.F.) | 4" White Guidelines (L.F.) | 12" White Diagonal (L.F.) | 12" Stop Bar (Lanes) | Yield Lines (Lanes) | Cross Walk (Lanes) | SOLID WHITE ARROW |          |       |             | A                       | C     | D   | F  | H   | J   |
|                                        |        |                |       |                                |                             |                  |                            |                             |                        |                            |                           |                      |                     |                    | Left              | Straight | Right | Slant Merge |                         |       |     |    |     |     |
| 40+00                                  | 43+51  | N              | N     | 351                            |                             |                  | 101                        | 702                         |                        |                            |                           |                      | 1                   |                    |                   |          |       |             |                         | 18    |     |    | 35  |     |
| 43+51                                  | 52+83  | N              | N     | 932                            |                             |                  | 86                         | 1864                        | 848                    | 340                        | 67                        | 5                    |                     | 1                  | 6                 |          |       | 1           | 20                      | 47    | 31  | 1  | 35  |     |
| 52+83                                  | 54+73  | N              | N     | 190                            |                             |                  | 75                         | 380                         | 93                     | 143                        | 10                        | 1                    | 1                   |                    |                   |          | 1     |             |                         | 10    |     | 1  | 19  |     |
| 54+73                                  | 60+00  | N              | N     | 527                            | 68                          |                  |                            | 1054                        |                        |                            |                           | 2                    |                     |                    |                   |          |       |             |                         | 26    | 23  |    | 9   |     |
| 60+00                                  | 84+29  | P              | P     |                                |                             | 2429             |                            | 4858                        |                        |                            |                           |                      |                     |                    |                   |          |       |             |                         | 121   | 61  | 1  | 11  | 248 |
| 79+29                                  | 84+31  | P              | N     |                                |                             |                  |                            |                             |                        |                            |                           |                      |                     |                    |                   |          |       |             |                         |       |     |    |     |     |
| 84+29                                  | 87+52  | N              | N     | 323                            |                             |                  |                            | 646                         |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 16    | 16  |    |     |     |
| 87+52                                  | 96+39  | N              | N     | 887                            |                             |                  |                            | 1774                        |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 44    | 44  | 1  |     |     |
| 96+39                                  | 102+69 | N              | N     | 630                            |                             |                  |                            | 1260                        |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 32    | 32  | 1  |     |     |
| 102+69                                 | 123+90 | N              | N     | 2121                           |                             |                  |                            | 4392                        |                        |                            | 42                        | 3                    |                     |                    |                   |          |       |             |                         | 114   | 106 | 1  |     |     |
| 123+90                                 | 125+38 | N              | N     | 148                            |                             |                  |                            | 296                         |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 7     | 7   |    |     |     |
| 125+38                                 | 127+78 | N              | N     | 240                            |                             |                  |                            | 480                         |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 12    | 12  | 1  |     |     |
| 127+78                                 | 132+64 | N              | N     | 486                            |                             |                  |                            | 972                         |                        |                            |                           | 2                    |                     |                    |                   |          |       |             |                         | 24    | 24  |    |     |     |
| 132+64                                 | 146+59 | N              | N     | 1395                           | 72                          |                  | 100                        | 2790                        |                        |                            |                           | 1                    |                     |                    | 5                 |          |       |             |                         | 70    | 50  | 1  | 40  |     |
| 146+59                                 | 150+24 | N              | N     | 365                            |                             |                  |                            | 730                         | 359                    | 281                        |                           | 3                    |                     |                    | 5                 |          |       |             |                         | 18    | 18  | 1  |     |     |
| 150+24                                 | 159+82 | N              | N     | 958                            |                             |                  | 284                        | 1916                        | 93                     | 100                        |                           | 2                    |                     | 5                  |                   |          |       |             |                         | 48    | 48  | 1  | 33  |     |
| 159+82                                 | 170+00 | N              | N     | 1018                           |                             |                  |                            | 2036                        |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 64    | 51  | 2  |     |     |
| 170+00                                 | 176+84 | N              | N     | 684                            |                             |                  |                            | 1368                        |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 34    | 34  | 1  |     |     |
| 176+84                                 | 178+50 | N              | N     | 166                            |                             |                  |                            | 332                         |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 8     | 8   |    |     |     |
| 178+50                                 | 184+82 | N              | N     | 632                            |                             |                  |                            | 1264                        |                        |                            |                           | 2                    |                     | 2                  |                   |          |       |             |                         | 32    | 32  | 2  |     |     |
| 184+82                                 | 186+83 | N              | N     | 201                            |                             |                  |                            | 402                         |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 10    | 10  |    |     |     |
| 186+83                                 | 192+58 | N              | N     |                                |                             | 575              |                            | 1150                        |                        |                            |                           | 1                    |                     |                    |                   |          |       |             |                         | 29    | 14  | 1  | 14  | 48  |
| 192+58                                 | 197+43 | N              | N     | 485                            |                             |                  |                            | 970                         |                        |                            |                           | 3                    |                     |                    |                   |          |       |             |                         | 24    | 24  |    |     |     |
| 197+43                                 | 201+82 | N              | N     | 439                            |                             |                  |                            | 878                         | 244                    |                            | 36                        |                      | 1                   |                    |                   |          |       |             |                         | 22    | 28  |    | 12  |     |
| 201+82                                 | 208+00 | N              | N     | 618                            | 205                         |                  | 74                         | 1236                        | 358                    | 132                        |                           | 4                    |                     |                    | 2                 |          |       |             | 16                      | 31    | 31  | 1  | 40  |     |
| 208+00                                 | 215+00 | N              | N     | 700                            |                             |                  | 149                        | 1400                        | 68                     |                            | 23                        | 1                    |                     |                    |                   |          |       |             |                         | 35    | 4   |    | 52  |     |
|                                        |        | TOTAL          |       | 14496                          | 345                         | 3004             | 869                        | 35150                       | 2063                   | 996                        | 178                       | 39                   | 3                   | 8                  | 13                |          |       | 2           | 36                      | 895.5 | 709 | 17 | 300 | 296 |

| <u>LEGEND FOR AS-BUILT POSTING</u>                                                    |                                     |
|---------------------------------------------------------------------------------------|-------------------------------------|
|  | Squiggly line for as-built deletion |
|  | Double line for as-built deletion   |
| <b>Roadway</b>                                                                        | Text for as-built posting           |



## "AS-BUILT"