

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50C-01-01M	2003	2	32

STANDARD PLAN NO.	TITLE	DATE
B-01	Notes and Miscellaneous Details	07/01/86
B-02		
B-03	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04		
B-05		
B-06	Concrete Box Girder	07/01/86
B-07	Concrete Box Girder	07/01/86
B-08	Concrete Box Girder	07/01/86
B-09		
B-10		
B-11		
B-12	Prestressed Concrete Piles	r07/16/90
B-13	Prestressed Concrete Piles	r07/16/90

D-01	Chain Link Fence With Toprail	r03/06/87
D-02	Chain Link Fence Without Toprail	r07/26/90
D-03	Wire Fence With Metal Posts	07/01/86
D-04	Typical Details of Curbs and/or Gutters	07/01/86
D-05	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/86
D-07	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/86
D-10	Field Office	07/01/86
D-11	Project Site Laboratory	07/01/86
D-12	Project Site Laboratory	07/01/86
D-13	Field Office & Project Site Laboratory	07/01/86

H-01	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04	Typical Reinforcing Details for Catch Basins	07/01/86
H-05	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07	Type F Storm Drain Manhole	07/01/86
H-08	Catch Basin and Manhole Casting	07/01/86
H-09	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C.M.P. Drain	07/01/86
H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

STANDARD PLAN NO.	TITLE	DATE
TE-01	Miscellaneous Sign Details	07/01/86
TE-02	Galvanized Flanged Channel Sign Post Mounting	07/01/86
TE-03	Galvanized Square Tube Sign Post Mounting	07/01/86
TE-04	Regulatory Signs	r09/01/87
TE-05	Warning Signs	07/01/86
TE-06	Miscellaneous Signs	r11/03/89
TE-07	Reserved	07/01/86
TE-08	Construction Signs	r09/01/87
TE-09	Miscellaneous Intersection Signs	r03/06/87
TE-10	Reserved	07/01/86
TE-11	Bike Route Sign and Supplementary Plates	07/01/86
TE-12	State Route Marker and Auxiliary Markers	07/01/86
TE-13	Interstate Route Marker	07/01/86
TE-14	State Route Marker and Border Detail for Guide Signs	07/01/86
TE-15	Route Marker Assemblies	07/01/86
TE-16	Miscellaneous Reflector Markers	07/01/86
TE-17	Type II Object Markers	07/01/86
TE-18	Mileposts	07/01/86
TE-19	Reserved	07/01/86
TE-20	Overhead Sign Supports	07/01/86
TE-21	Overhead Sign Support, Box Truss Type, Aluminum	07/01/86
TE-22	Foundation Details and Schedules	07/01/86
TE-23	Supports for Ground Mounted Guide Sign	r11/03/89
TE-24	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/86
TE-25	Laminated Aluminum Sign Panels (Overhead)	07/01/86
TE-26	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/86
TE-27	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/86
TE-28	Guide Signs Luminaire Mountings	07/01/86
TE-29	Reserved	07/01/86
TE-30	Raised Pavement Markers and Striping	r05/09/90
TE-31	Miscellaneous Pavement Markings	r05/09/90
TE-32	Miscellaneous Pavement Markings	r05/09/90
TE-33	Miscellaneous Pavement Markings	r11/03/89
TE-34	Reserved	07/01/86
TE-35	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-36	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-37	Reserved	07/01/86
TE-38	Traffic Signal System, Miscellaneous Details	r11/03/89
TE-39	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40	Loop Detectors	r11/03/89
TE-41	Pullboxes	07/01/86
TE-42	Type III Traffic Signal Standard	07/01/86
TE-43	Concrete Pullbox (2' x 3')	07/01/86
TE-44	Reserved	07/01/86

STANDARD PLAN NO.	TITLE	DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50	Metal Guardrail	r03/06/87
TE-51	Metal Guardrail	r09/01/87
TE-52	Metal Guardrail with Rubrail	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	r11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64	Portable Concrete Barrier	r11/03/89
TE-65	Guardrail Type 4, Miscellaneous	r09/01/87
TE-66	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r07/18/94
TE-69	Wheelchair Ramps	r07/18/94

SURVEY PLOTTED BY	DATE
DRAWN BY	07/05/02
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
additions	
deletions	

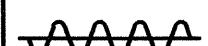
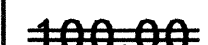
06/02/03 " " ADDED TO H-04, H-08 & H-11 AND " " DELETED FROM H-09
07/18/94 REVISED TE-68 & TE-69
02/15/91 REVISED H-19
10/16/90 REVISED H-16, H-17, H-22 & H-23
07/26/90 REVISED D-02
07/16/90 REVISED B-12, B-13
05/09/90 REVISED TE-30, TE-31 & TE-32
11/03/89 REVISED TE-06, TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69, ADDED TE-57A
09/01/87 REVISED TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69
03/06/87 REVISED D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64

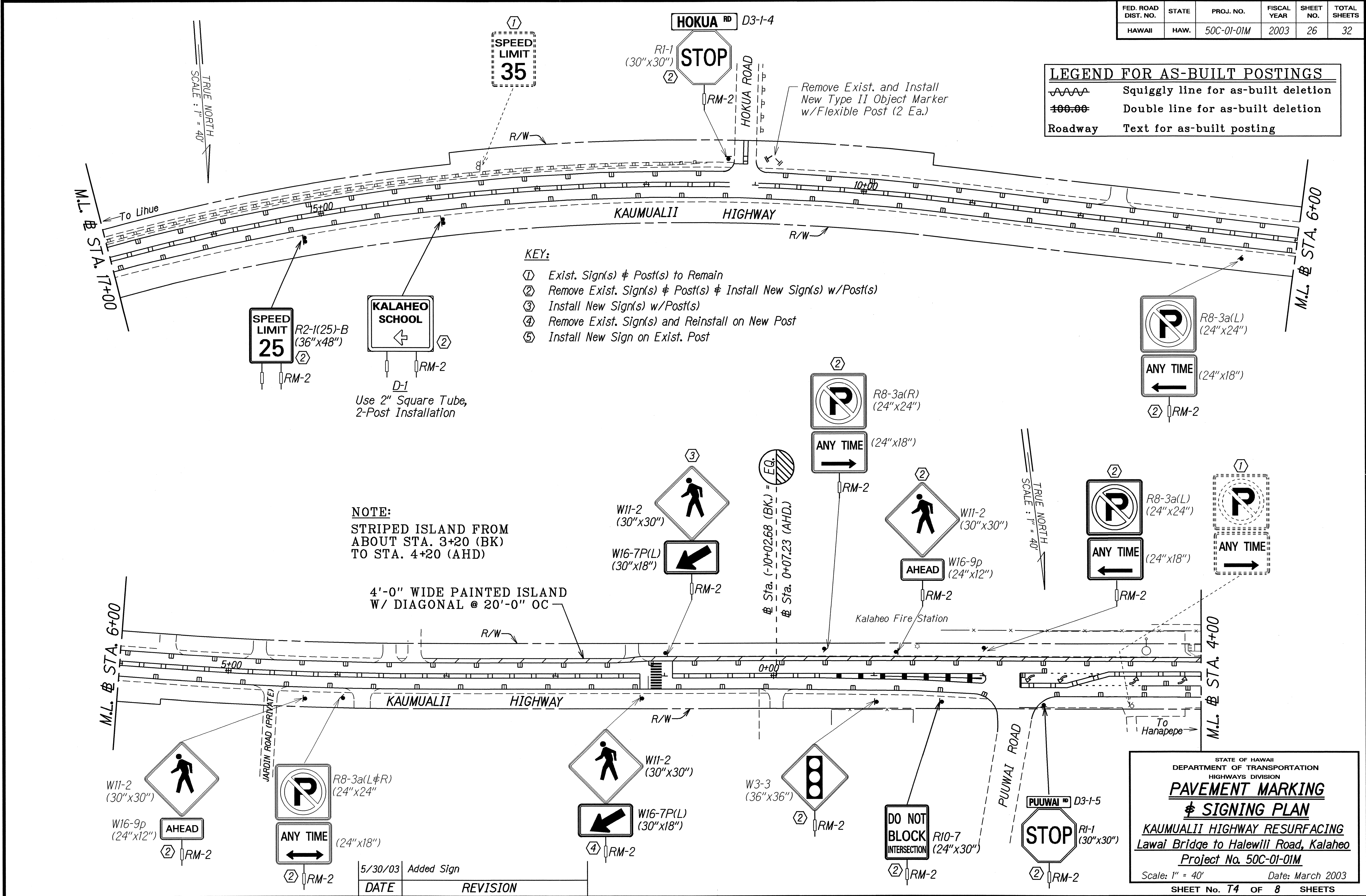
NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " " NEXT TO THE STANDARD PLAN NO. (FOR EXAMPLE: D-07)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD PLANS SUMMARY
KAUMUALII HIGHWAY RESURFACING
Lawai Bridge to Halewili Road, Kalaheo
Project No. 50C-01-01M
Date: March 2003

DATE	REVISION
	SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50C-01-01M	2003	26	32

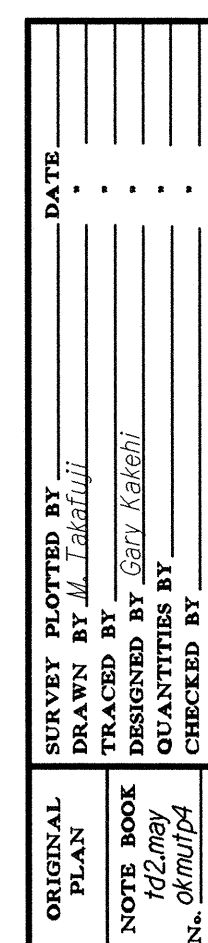
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	
APPROVED BY	

AS-BUILT ADD. 26

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
100-00	Double line for as-built deletion
Roadway	Text for as-built posting



- ① Exist. Sign(s) $\neq$ Post(s) to Remain
- ② Remove Exist. Sign(s) $\neq$ Post(s) $\neq$ Install New Sign(s) w/Post(s)
- ③ Install New Sign(s) w/Post(s)
- ④ Remove Exist. Sign(s) and Reinstall on New Post
- ⑤ Install New Sign on Exist. Post

<i>DATE</i>	<i>REVISION</i>
-------------	-----------------

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
¢ SIGNING PLAN

KAUMUALII HIGHWAY RESURFACING
Lawai Bridge to Halewili Road, Kalaheo
Project No. 50C-01-01M

Scale: 1" = 40' Date: March 2003

SHEET No. **15** OF **8** SHEETS

ADD. 27

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.
HAWAII	HAW.	50C-01-01M	2003	1

NOTE:
Yield Line Markings shall be paid for as one complete set.

TRUE NORTH
SCALE : 1" = 40'

KAUMUALII HIGHWAY

To Lihue

M.L. # STA. 26+00

M.L. # STA. 37+00

PT ALLEN
WAIMEA
NUMILA

HALEWILI RD.

OLU PUA GARDENS

TO HANAPEPE

END ROAD WORK

KEY:

- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
- ③ Install New Sign(s) w/Post(s)
- ④ Remove Exist. Sign(s) and Reinstall on New Post
- ⑤ Install New Sign on Exist. Post

DATE	REVISION
5/30/03	Deleted Sign

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KAUMUALII HIGHWAY RESURF
Lawai Bridge to Halewili Road,
Project No. 50C-01-01M

Scale: 1" = 40' Date: Mar

- ① *Exist. Sign(s) $\nrightarrow$ Post(s) to Remain*
- ② *Remove Exist. Sign(s) $\nrightarrow$ Post(s) $\nrightarrow$ Install New Sign(s) w/Post(s)*
- ③ *Install New Sign(s) w/Post(s)*
- ④ *Remove Exist. Sign(s) and Reinstall on New Post*
- ⑤ *Install New Sign on Exist. Post*

ADD. 28

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50C-01-01M	2003	30	32

PAVEMENT MARKING SUMMARY		
DESCRIPTION	QUANTITY	
PAVEMENT MARKERS		
TYPE A _____	16	EA.
TYPE C _____	520	EA.
TYPE D _____	370	EA.
TYPE H _____	130	EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION		
4-INCH PAVEMENT STRIPE (WHITE) _____	80	L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	370	L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	7,400	L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION		
4-INCH PAVEMENT STRIPE (WHITE) _____	17,300	L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	850	L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	350	L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	290	L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	2,400	L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION		
4-INCH PAVEMENT STRIPE (WHITE) _____	440	L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	860	L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	270	L.F.
CROSSWALK MARKINGS _____	12 LANES	
PAVEMENT ARROW _____	20	EA.
PAVEMENT SYMBOL (SHARK'S TEETH MARKING) (WHITE) _____	4	EA.

TRAFFIC SIGN SUMMARY					
SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POSTS	W/O POSTS
R1-1	STOP	6			
R1-2	YIELD	3			
R2-1(25)-B	SPEED LIMIT 25			2	
R2-1(35)-B	SPEED LIMIT 35			1	
R2-5b(25)-B	REDUCED SPEED 25			2	
R4-1-B	DO NOT PASS			1	
R7-1	NO PARKING ANYTIME ↔	1			
R8-3a(L)	 ANY TIME	2			
R8-3a(R)	 ANY TIME	2			
R8-3a(L&R)	 ANY TIME	1			
R10-7	DO NOT BLOCK INTERSECTION	2			
R15-1	UNLAWFUL TO LITTER \$500 FINE	1			
W1-8(L)		5			
W1-8(R)			5		
W3-3		2			
W11-2		4			
W16-7P(L)			4		
W16-9P			4		
SI-1		4			
TOTAL		33	13	6	

ROUTE MARKER SUMMARY							
SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE		TYPE A ASSEMBLY		TYPE B ASSEMBLY	
				W/POST	W/O POST	W/POST	W/O POST
SRM-1	Ⓢ STA. 24+80 RT.	M2-1 JCT M1-6(540) 540		1			
SRM-2	Ⓢ STA. 28+80 RT.	M1-6(540) 540 M6-1(L) ← M1-6(50) 50 M6-3 ↑				1	
SRM-3	Ⓢ STA. 30+00 LT.	M3-2 EAST M1-6(50) 50		1			
TOTAL				2		1	

MILEPOST MARKER SUMMARY				
LOCATION	SIGN NO. AND MESSAGE		QUANTITY	
			W/POST	W/O POST
Ⓢ STA. 36+50 LT.	D10-5(11) 11 D10-7(50) 50		1	x
Ⓢ STA. 16+10 RT.	D10-5(12) 12 D10-7(50) 50		1	x
HR Ⓢ STA. 126+83 LT.	D10-4(0) 0 D10-7(540) 540		1	x
TOTAL			3	x

MILEPOST MARKER SHALL BE INSTALLED BI-DIRECTIONAL.

5/30/03	Revised Sign Quantities
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC SUMMARIES	
KAUMUALII HIGHWAY RESURFACING Lawai Bridge to Halewili Road, Kalaheo Project No. 50C-01-01M	
Date: March 2003	
SHEET No. 78 OF 8 SHEETS	

SURVEY PLOTTED BY _____	DATE _____
DRAWN BY _____	_____
TRACED BY _____	_____
CHECKED BY _____	_____
NOTED BY _____	_____
QUANTITIES BY _____	_____
CHECKED BY _____	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
FILED BY _____	_____
CHECKED BY _____	_____