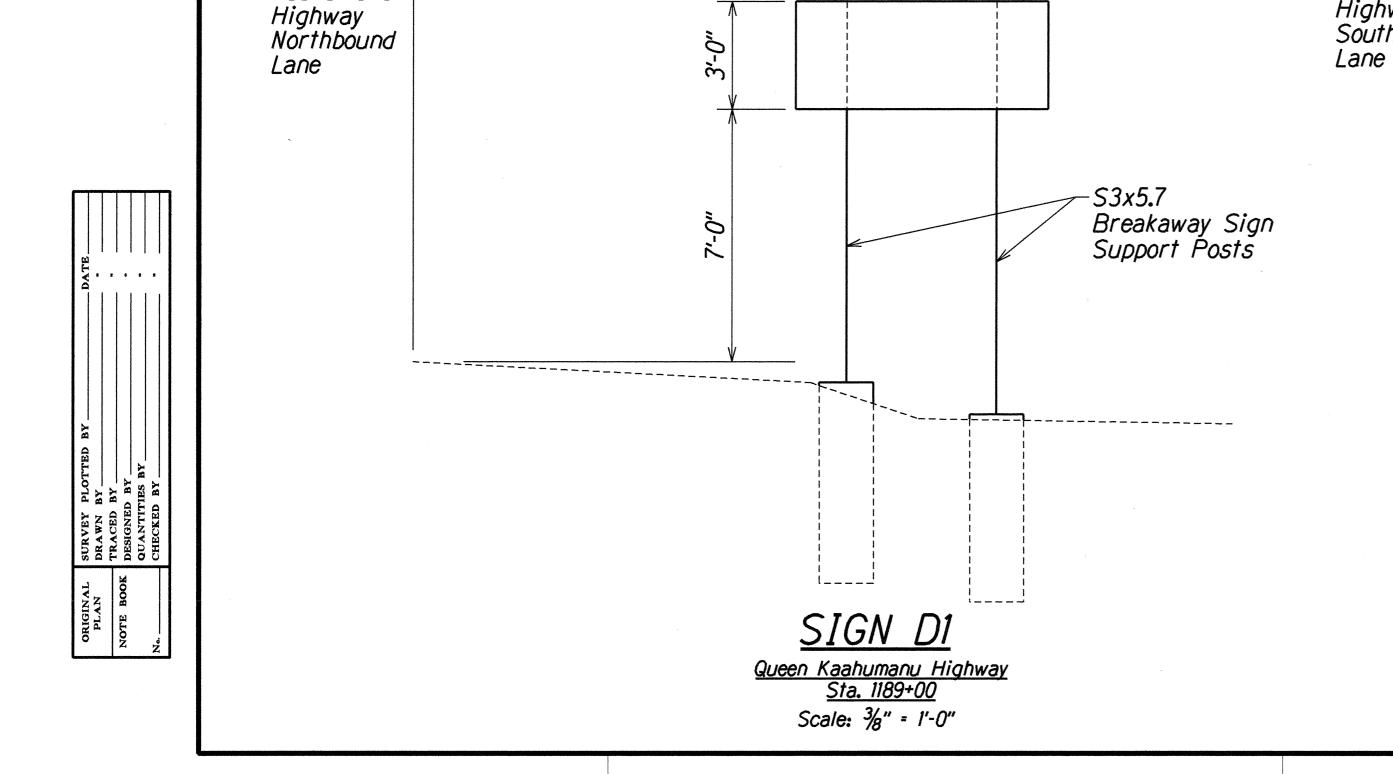


Radii For Signs					
Least Dimension Of Sign	W	R			
2'-0" TO 4'-6"	2"	3"			
4'-9" TO 5'-6"	2"	6"			
5'-9" TO 7'-6"	2"	9"			
7'-9" and Greater	2"	12"			

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19C-01-02	2002	19	34

DESTINATION (D) SIGN NOTES

- 1. The Contractor shall verify the locations and dimensions of existing Sign Panels and supports.
- 2. New sign panels shall be laminated aluminum or extruded aluminum.
- 3. Letter Size:
 - a. When letters are all uppercase, use series "E"
 - b. When initial uppercase letter is used in conjunction with lowercase letters, use series "E"(M) for uppercase
- 4. Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet by 6 feet or less shall be of one sheet.
- 5. Destination Sign Posts shall be as noted on the plans.



<u>D1</u> Scale:³/_{4"} = 1'-0"

7′-0′′

7" 121/2" 4"

28³/4"

121/2"

Queen

Kaahumanu

E.P.

531/2"

Waikoloa

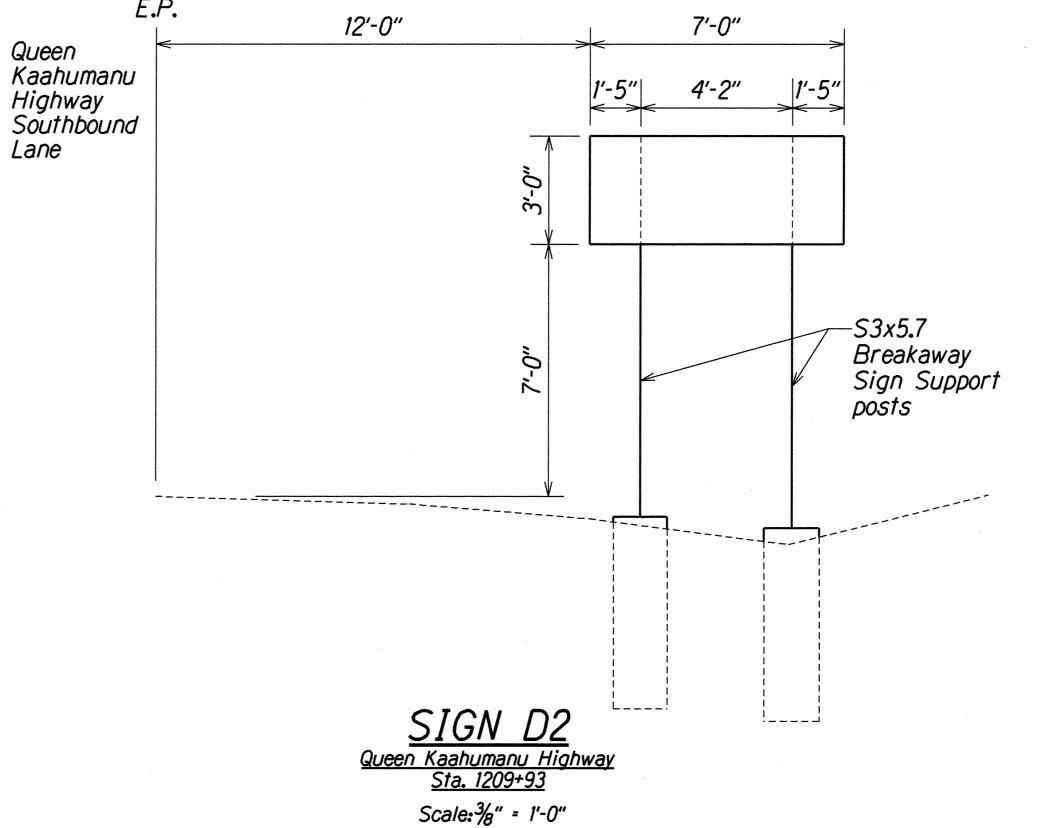
Village

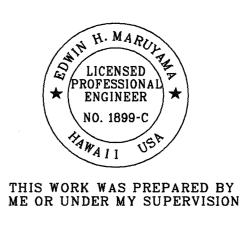
43"

<u>D2</u> Scale: 3/4" = 1'-0"

12'-0"

121/2"





Elvin A Mayrun
FUJITA & ASSOCIATES INC.

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DESTINATION SIGNS

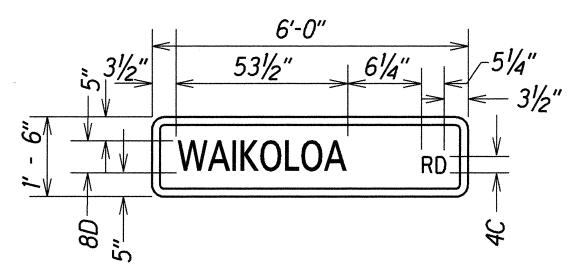
STATE OF HAWAII

NOTES AND MISC. DETAILS

<u>Queen Kaahumanu Highway</u> <u>Traffic Operational Improvements</u> <u>At Waikoloa Beach Drive and Waikoloa Road</u> Project No. 19C-01-02

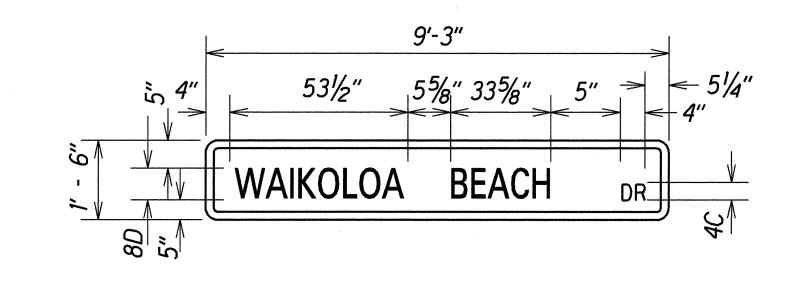
Date: May 2002 Scale: As Shown

SHEET No. DSI OF 3 SHEETS



HANGING SIGN-WAIKOLOA ROAD.

Not to Scale



HANGING SIGN-WAIKOLOA BEACH DRIVE

Not to Scale

FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. 19C-01-02 2002 20 34

SIGN NOTES

- 1. Existing signs that are to be replaced, shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
- 2. Backing for all new Regulatory and Warning Signs shall not be spliced.
- 3. All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs."
 - c. "Standard Alphabets for Highway Signs."
- 4. Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
- 5. Sign messages shall be as indicated on the plan.
- 6. All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 ft. abutting edges of panels shall be in only one direction if vertical abutting edges are used, no horizontal abutting edges shall be allowed and vice versa.
- 7. All new and relocated signs and markers installed on pipe posts, light standard or expressway sign post are to be mounted with band brackets and steel braces.
- 8. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- 9. Removal of Existing Delineators and Posts shall be considered incidental to the various signing items.
- 10. Removing and reinstalling existing Street Name Signs on Regulatory and Warning Sign Post shall not be paid for separately but shall be considered incidental to the various signing items.
- 11. Install type II object marker on all utility poles or trees that are within the State highway right of way and within 30 feet of the roadway edge of pavement shall be marked as directed by the Engineer.
- 12. The Contractor shall notify the Hawaii County, Department of Public Works, 2 weeks prior to commencing any work on loop detectors or the traffic signal system.
- 13. Dept. of Public Works, County of Hawaii, will assist the Engineer in construction inspection for the work on loop detectors and the traffic signal system.
- 14. The exact locations of the new loop detectors shall be determined in the field by the Engineer.
- 15. All structural supports for the signs shall be designed in accordance with the "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals", 4th Edition, 2001.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Estivi Mayne FUJITA & ASSOCIATES INC. DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISC. SIGNS, HANGING

SIGNS AND SIGN NOTES

Queen Kaahumanu Highway
Traffic Operational Improvements

At Waikoloa Beach Drive and Waikoloa Road

Project No. 19C-01-02

Scale: No Scale

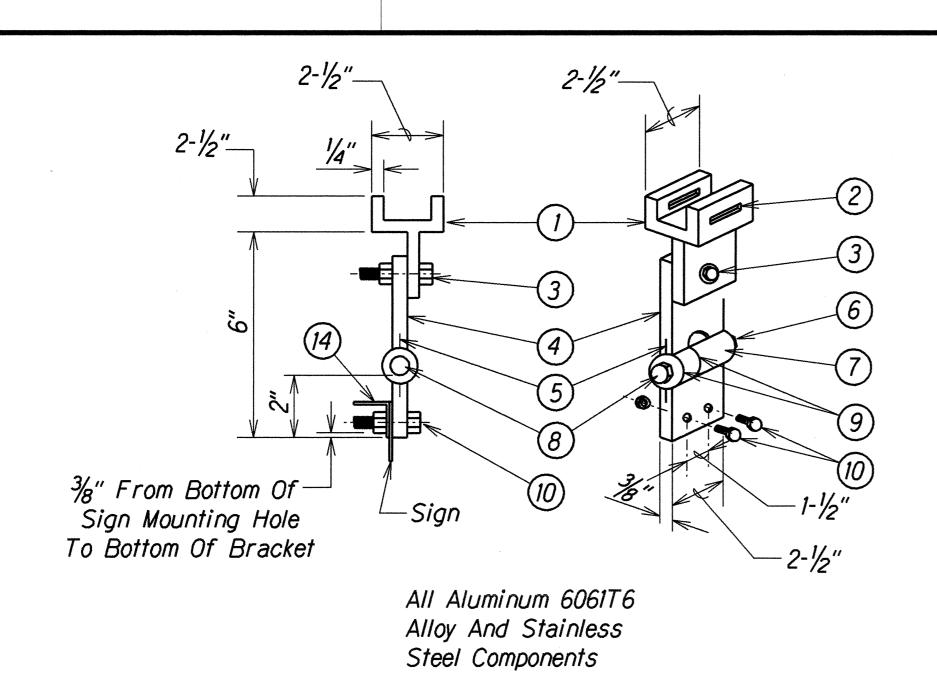
Date: May 2002

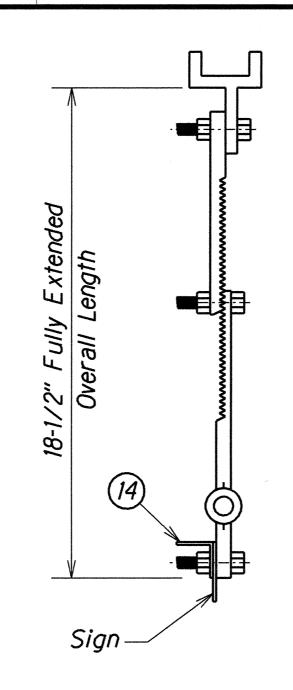
SHEET No. DS2 OF 3

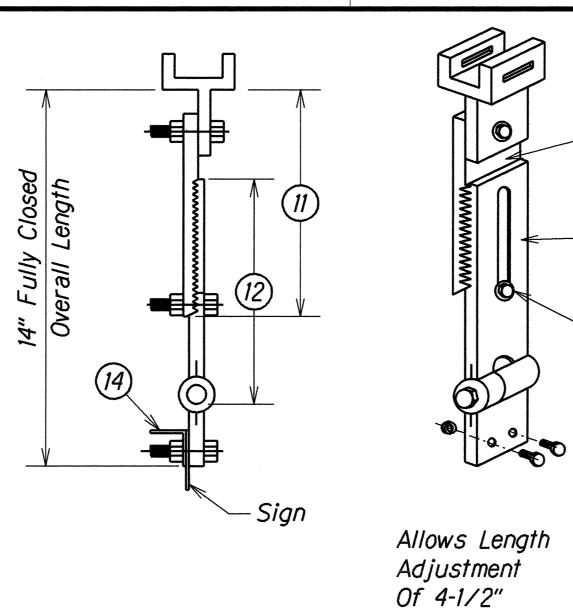
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20

SHEETS



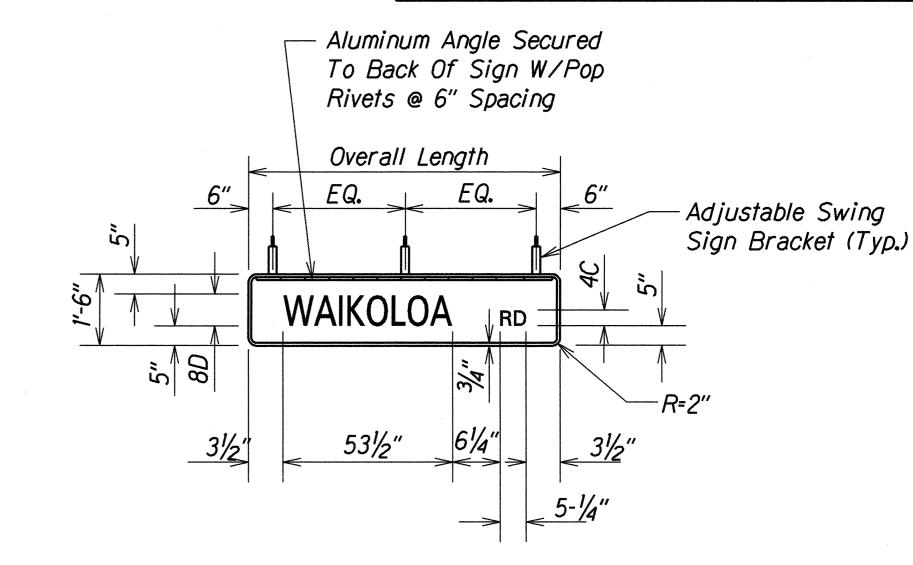




ADJUSTABLE LENGTH

SWING SIGN BRACKET

Not To Scale



FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS

2002

PROJ. NO.

19C-01-02

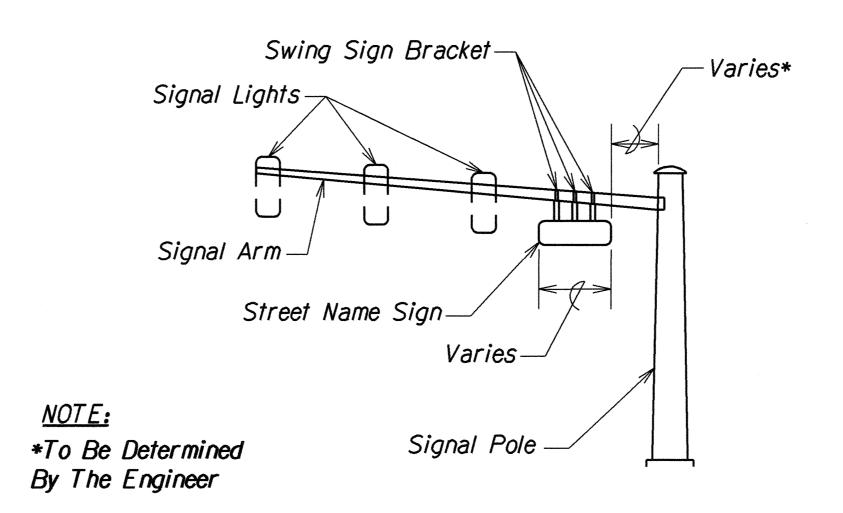
FIXED LENGTH NON-ADJUSTABLE

SWING SIGN BRACKET

Not To Scale

MATERIAL DESCRIPTION

- 1) Pivotal Upper Bracket
- 2) $1\frac{5}{8}$ " x $\frac{1}{4}$ " Slot For Double Strapping To Electrolier Mast Arm. (M2G-34S(HD). 03" x $\frac{3}{4}$ " Heqvy Duty Stainless Steel Strap With M2g-34B(HD) Buckle Recommended.)
- 3 ½"-13 x 1½" Stainless Steel Hex Head Bolt With Stainless Steel Hex Lock And ½"
 Stainless Steel Washer (Both Sides). Allows Upper Bracket To Pivot And Align With
 Electrolier Mast Arm
- (4) 6" Overall Drop With Fixed Length Sign Bracket.
- (5) Stainless Steel Damper Spring (Removable).
- 6) Stainless Steel Hex Nut With 1/16" Stainless Steel Washer.
- (7) 1" O.D. Axle Housing.
- 8) $\frac{1}{2}$ "-13 x 4" Stainless Steel Hex Head Bolt With $\frac{1}{16}$ " Stainless Steel Washer.
- (9) Oilite Bushing.
- Sign Mounting Sets, Consisting Of Two Each $\frac{5}{16}$ "-18 x 1" Stainless Steel Hex Head Bolt With Stainless Steel Hex Lock Nut. Two Holes On 1 -12" Centers Provide Positive Lock Sign Mounting To Bracket.
- (11) 81/2" Overall Length Upper Adjustable Sign Bracket Section.
- 9" Overall Length Adjustable Sign Bracket Section Including Axle Housing (8" Overall Length To Top Of Axle Housing).
- 13) ½"-13 x 1½" Stainless Steel Hex Bolt With Stainless Steel Hex Lock Nut And ½" Stainless Steel Washers (Both Sides) Loosen Lock Nut, Adjust Bracket Teeth To Level Sign.
- 14) 11/4" x 11/4" x 1/8" Aluminum Angle.
 Note: Dimensions May Vary Slightly.



STREET NAME SIGN
MOUNTING ON MAST ARM
Not To Scale

LICENSED
PROFESSIONAL
ENGINEER
NO. 1899-C
HAWAII

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

FUJITA & ASSOCIAPES INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

MISC. SIGNS, HANGING SIGNS AND SIGN NOTES

Queen Kaahumanu Highway
Traffic Operational Improvements
At Waikoloa Beach Drive and Waikoloa Road
Project No. 19C-01-02

Scale: No Scale

Date: May 2002

SHEET No. DS3 OF 3 SHEETS

 ORIGINAL
 SURVEY PLOTTED BY
 DATE

 PLAN
 DRAWN BY
 .

 NOTE BOOK
 DESIGNED BY
 .

 QUANTITIES BY
 .
 .

 CHECKED BY
 .
 .

21