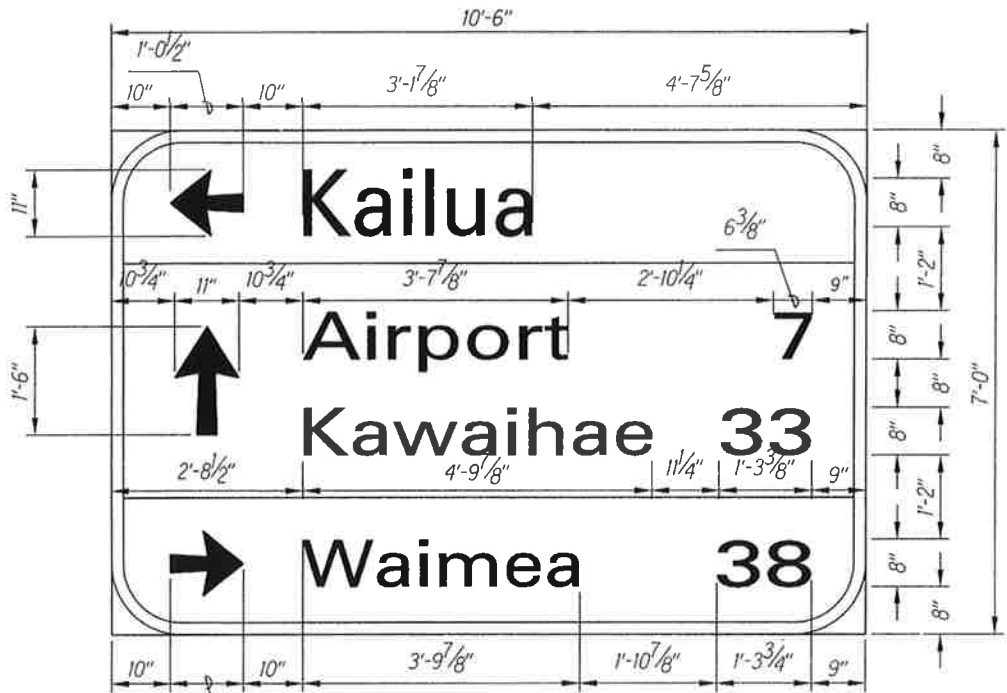


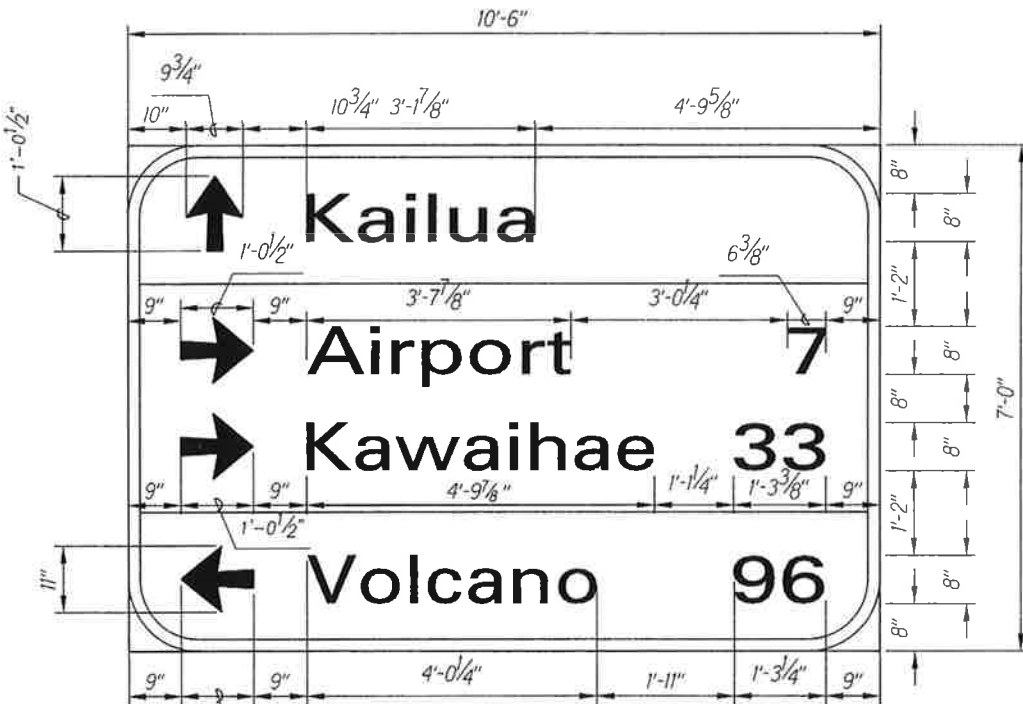
GENERAL NOTES:

1. Letters And Alphabets Shall Conform To The Manual "Standard Alphabets For Highway Signs" Bureau Of Public Roads, 1966. Use Series "e" Modified Letters And Numbers.
2. Arrows And Borders Shall Conform With Details As Shown On Plans.
3. Sign Message And Borders Shall Have White Reflective Sheeting On Demountable Aluminum Cut-outs On Green Reflective Sheeting Background.
4. Cut-outs Shall Be Fastened To Sign Panel With Aluminum Blind Rivets.
5. Destination Signs Shall Be Mounted On Breakaway Or Ground Mounted Posts.
6. All Signs Shall Conform To The "Manual On Uniform Traffic Control Devices", U.S. Department Of Transportation. Use High Intensity Reflective Sheeting For All Permanent And Temporary Roadside Signs.
7. Temporary Destination And Information Signs Shall Be 0.10 Inch Thick Sheet Aluminum.
8. Shop Drawings For Splicing On Sign Panel Shall Be Submitted For Approval.



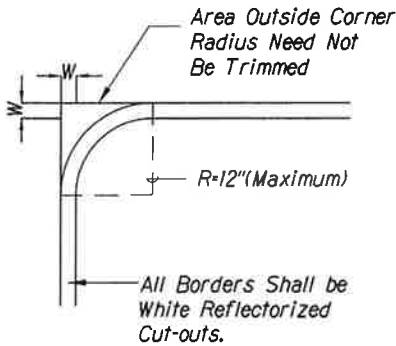
DES-1

Scale: 3/4" = 1'-0"

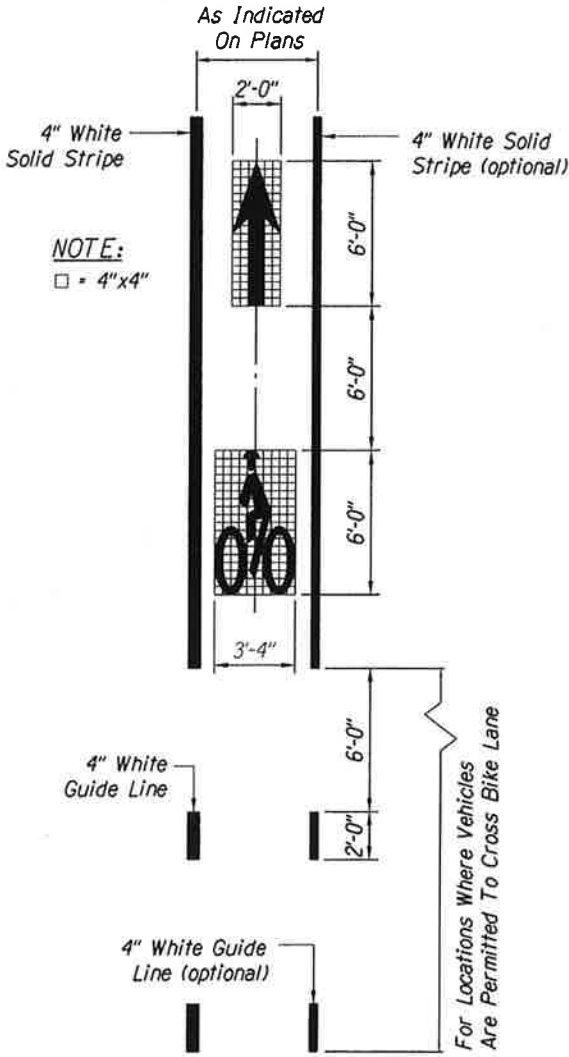


DES-2

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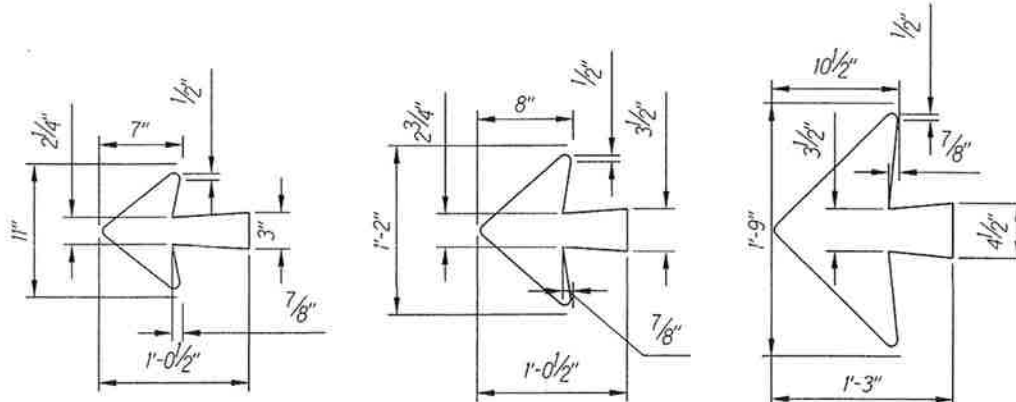


RADII FOR SIGNS		
LEAST DIMENSION OF SIGN	W	R
2'-0" TO 4'-6"	2"	3"
4'-9" TO 5'-6"	2"	6"
5'-9" TO 7'-6"	2"	9"
7'-9" AND GREATER	2"	12"



BIKE LANE MARKING DETAIL

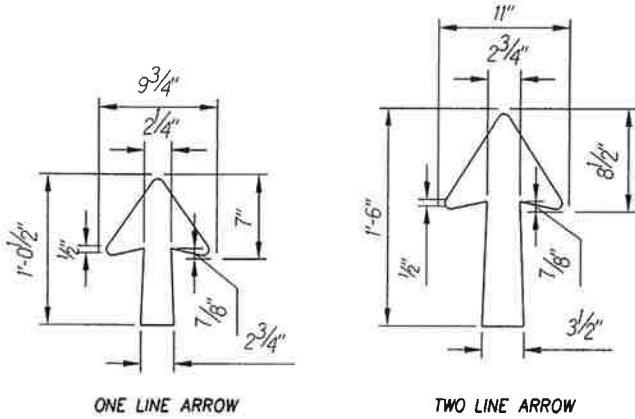
Scale: 1/4" = 1'-0"



ONE LINE ARROW TWO LINE ARROW THREE LINE ARROW

HORIZONTAL ARROW DETAIL

Scale: 1-1/2" = 1'-0"



VERTICAL ARROW DETAIL

Scale: 1-1/2" = 1'-0"



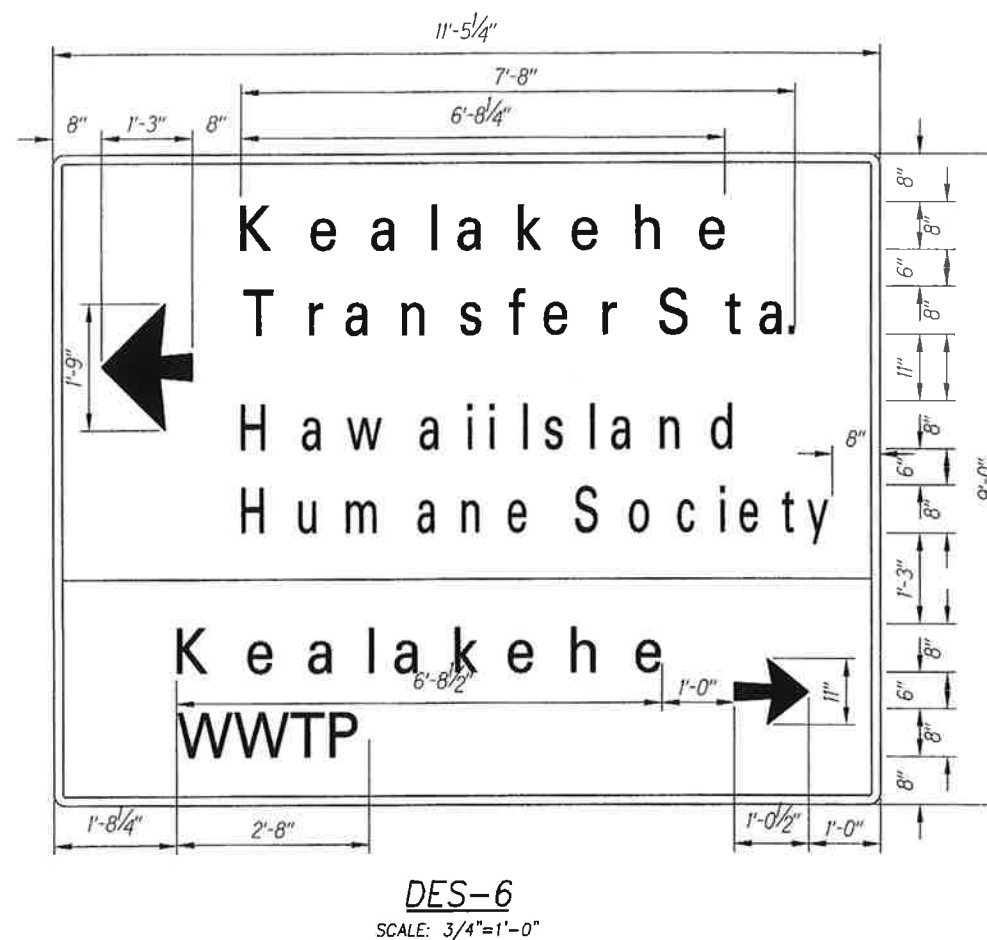
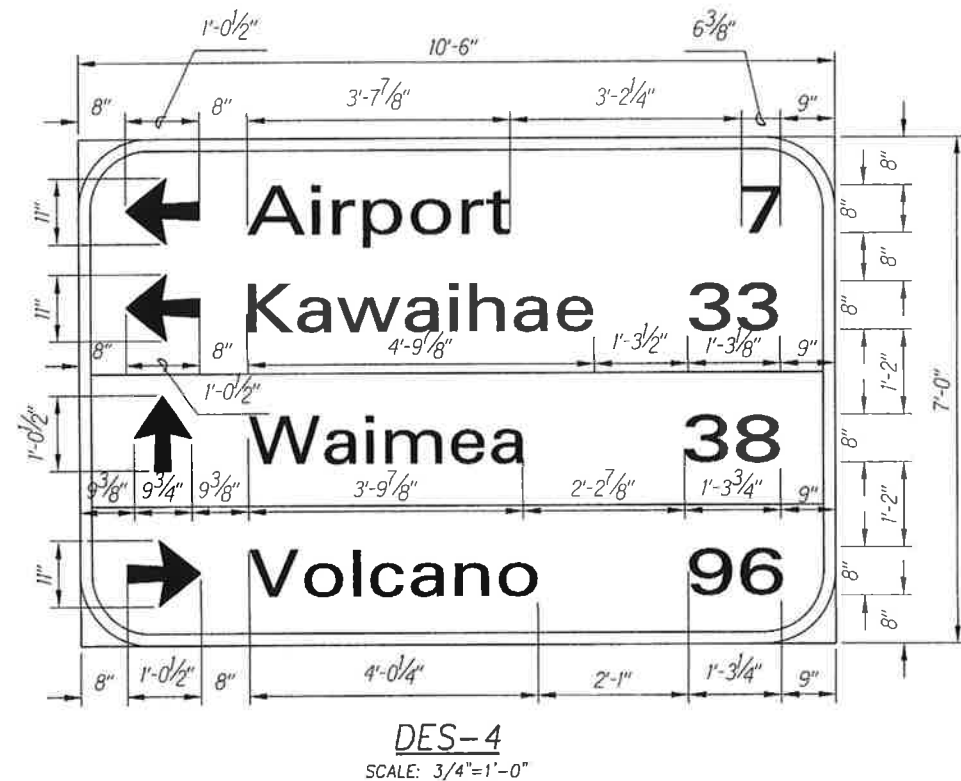
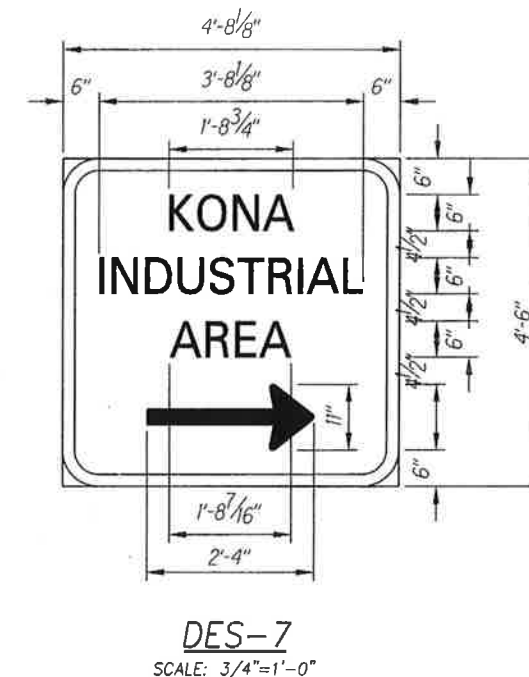
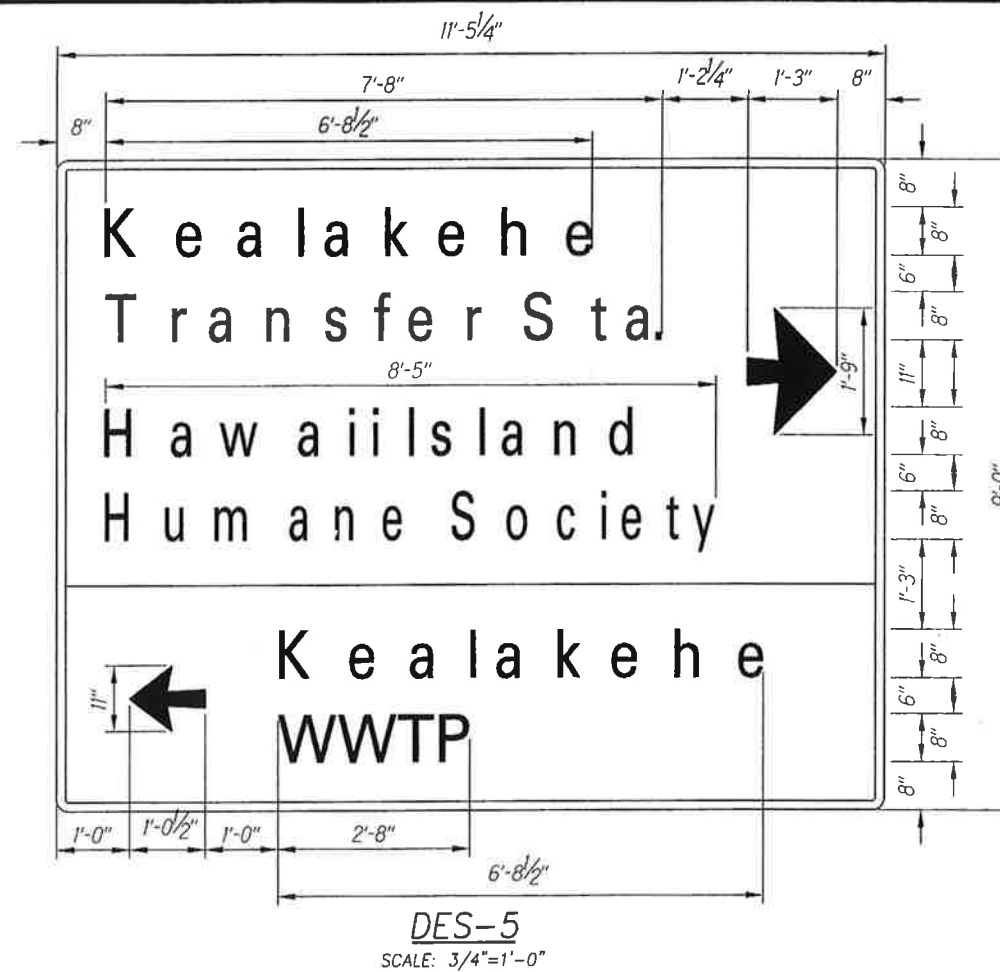
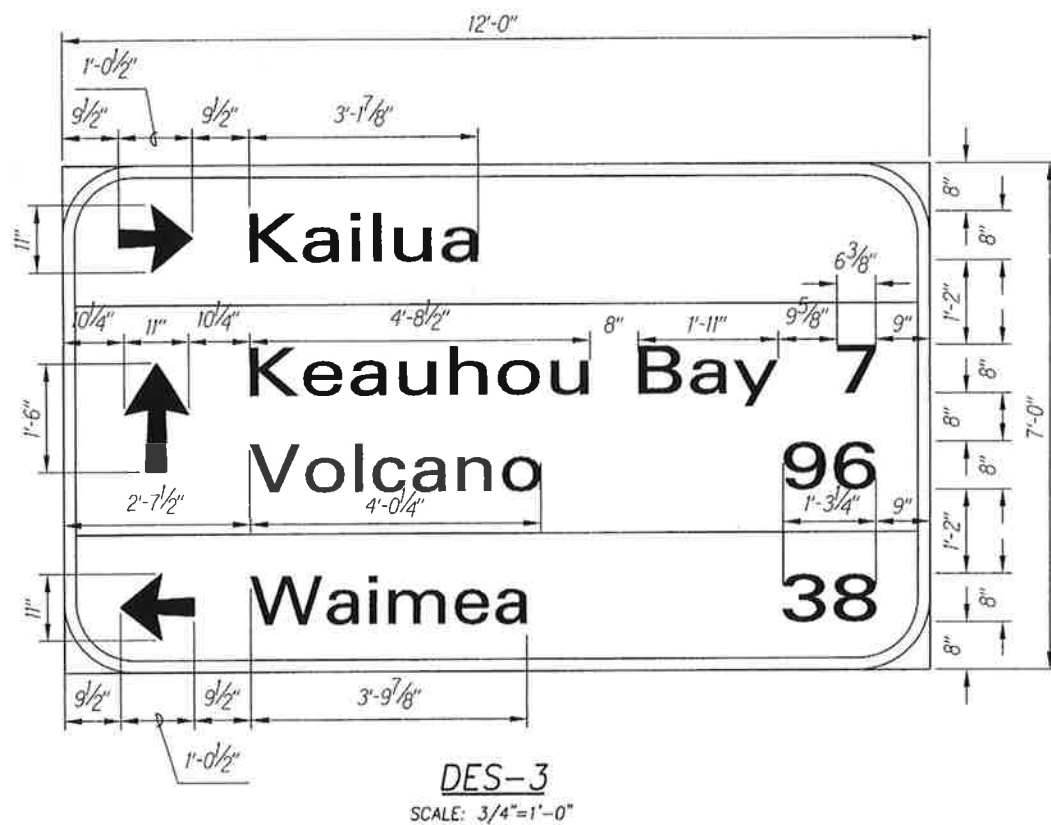
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or under my supervision
Exp. 04-30-10
Neal S. Fukumoto
Wesley R. Sager & Associates, Inc.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGNS
NOTES AND MISC. DETAILS
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

SHEET No. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	131	315



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Wesley R. Segawa & Associates, Inc.

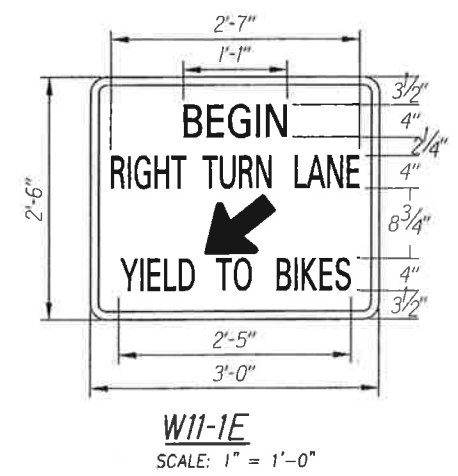
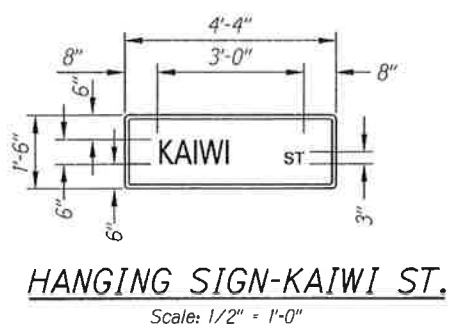
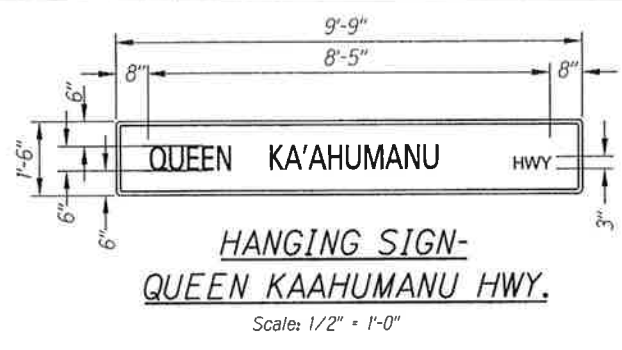
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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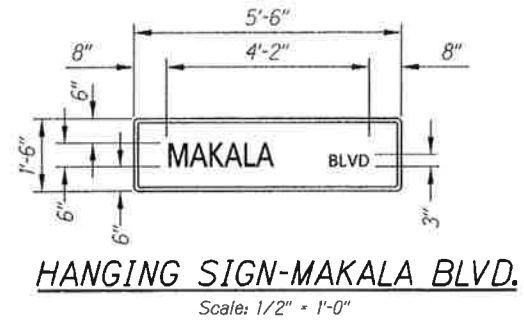
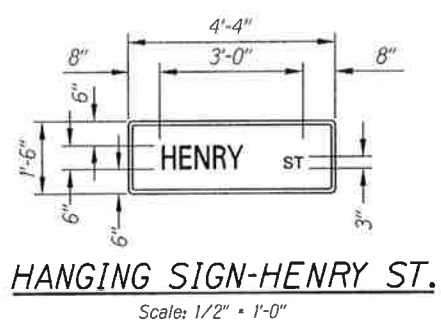
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
CHECKED BY	

AS-BUILT

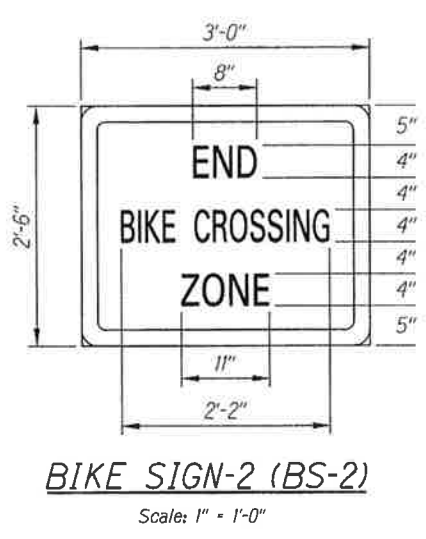
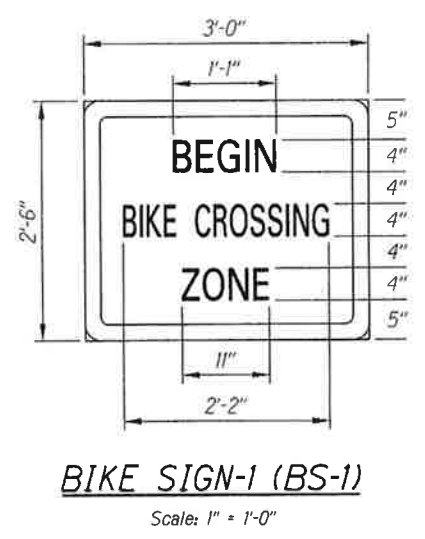
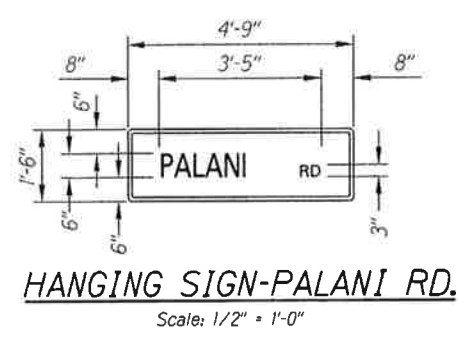
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	132	315



- SIGN NOTES:
- Signs Shall Be New Street Name Signs. The Contractor Shall Provide The Same Message On The Front And Back Side Of The Sign. Payment Will Not Be Made Separately But Shall Be Considered As One Unit.
 - Colors:
Legend - White (Reflectorized)
Background - (Reflectorized)
 - All Panels Shall Be Reflectorized With Type B Reflective Sheeting In Accordance With Section 712.20 Of The Standard Specifications.
 - Borders And Messages Shall Conform To Details As Shown On The Plans And As Specified In The Mutcd.
 - Sign Mounting Brackets, Aluminum Angle, Fixture, Fasteners And All Necessary Hardware And Equipment, Tools, Labor, Materials And Other Incidentals For Installation, Will Not Be Paid For Separately But Shall Be Considered Incidental To Street Name Sign Installation.
 - All Signs Shall Conform To Section 621 Of The Standard Specifications And The Latest Editions And Amendments Of The Following FHWA Publications:
 - "Manual On Uniform Traffic Control Devices For Streets And Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets For Highway Signs"



NOTE:
Use 4" Series C Letters, Black Legend On Reflectorized Yellow Background.



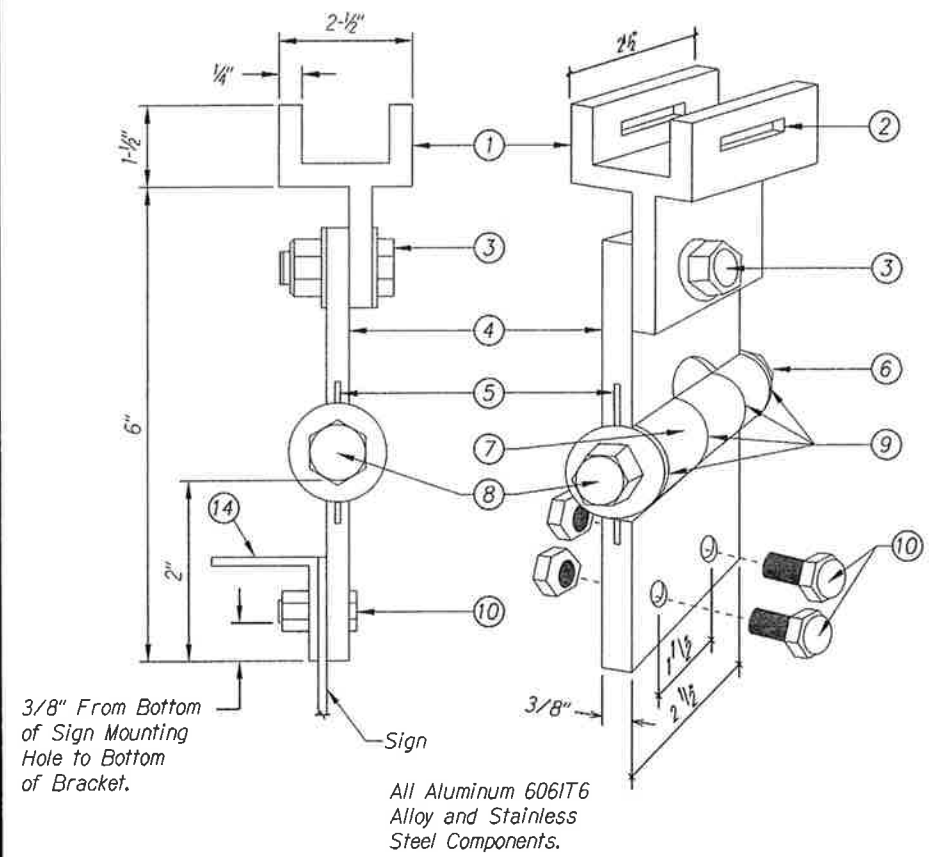
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

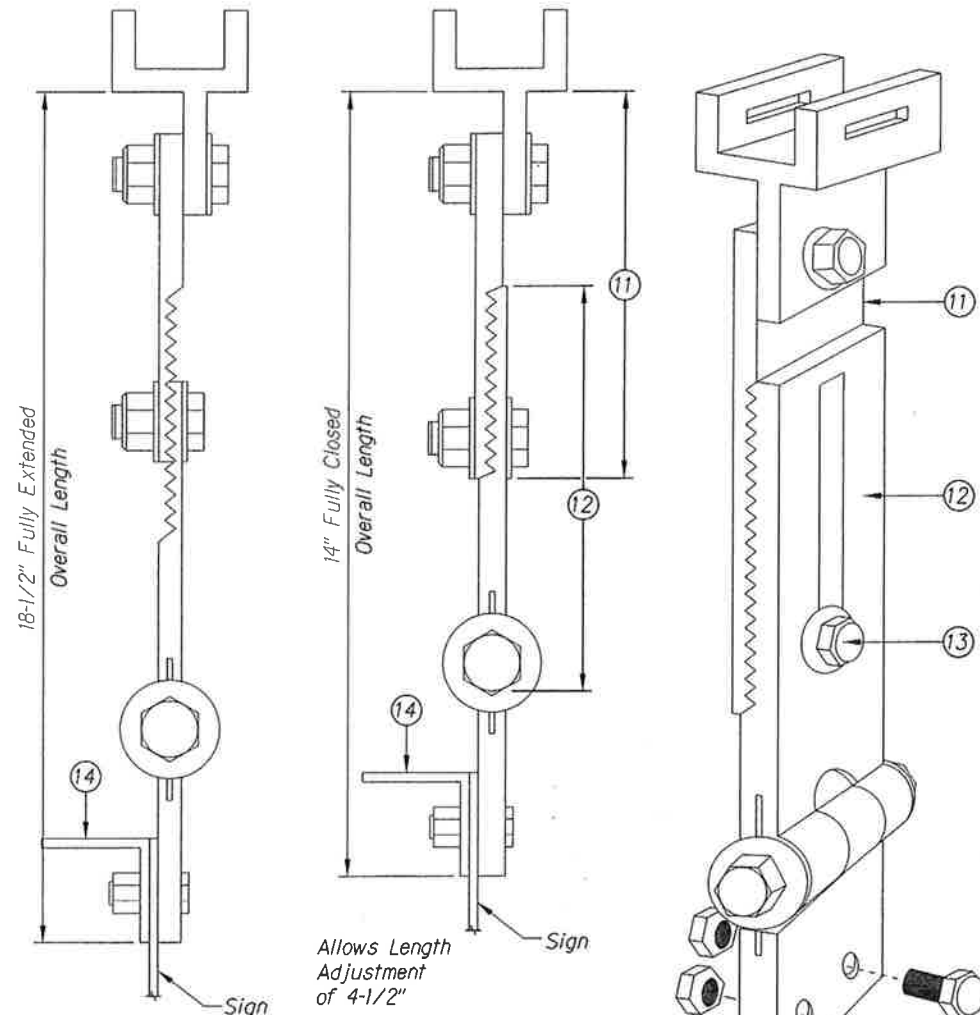
DESTINATION SIGNS
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HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

DATE	BY
DESIGNED BY	DATE
TRACED BY	DATE
DESIGNED BY	DATE
NOTE BOOK	DATE
CHECKED BY	DATE

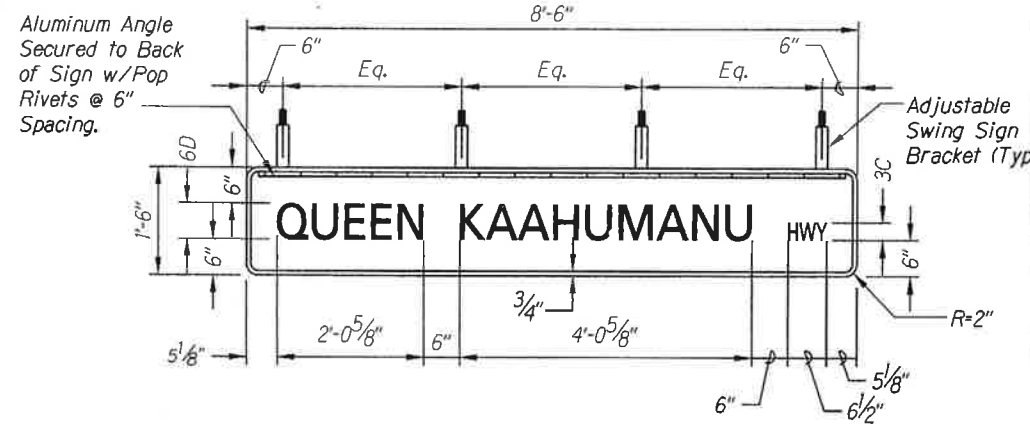
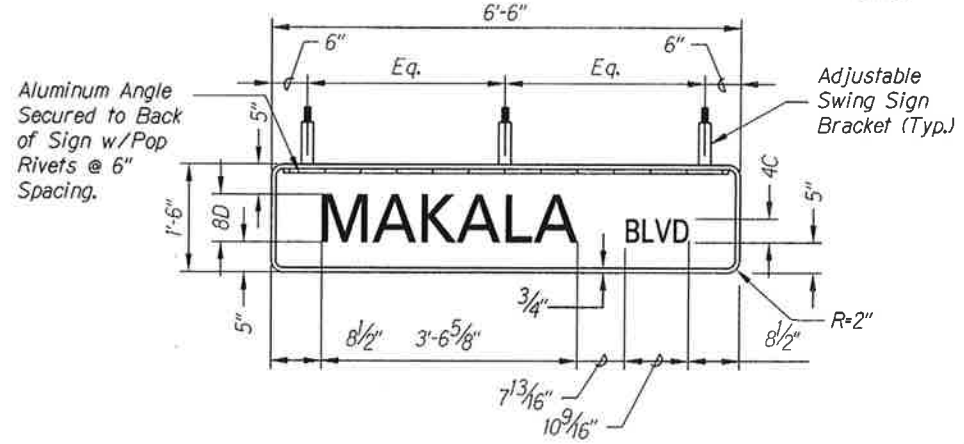
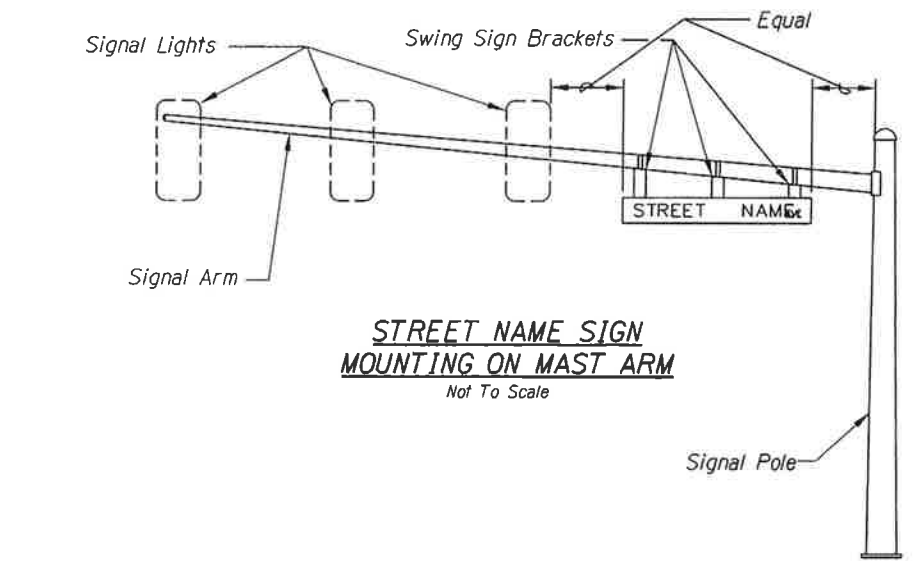
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	133	315



**FIXED LENGTH NON-ADJUSTABLE
SWING SIGN BRACKET**
Not To Scale



**ADJUSTABLE LENGTH
SWING SIGN BRACKET**
Not To Scale



**TYPICAL PANEL & SWING BRACKET
LAYOUT FOR STREET NAME SIGN**
Not To Scale

MATERIAL DESCRIPTION

- ① Pivotal Upper Bracket
- ② 1-5/8" X 1/4" Slot For Double Strapping To Electrolier Mast Arm. (m2g-34s(hd) .030" X 3/4" Heavy Duty Stainless Steel Strap With M2g-34b(hd) Buckle Recommended.)
- ③ 1/2" - 13 X 1-1/2" Stainless Steel Hex Head Bolt With Stainless Steel Hex Lock Nut And 1/16" 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 Dampener Spring (removable)
- ⑥ Stainless Steel Hex Lock Nut With 1/16" Stainless Steel Washer
- ⑦ 1" O.d. Axle Housing
- ⑧ 1/2" - 13 X 4" Stainless Steel Hex Head Bolt With 1/16" Stainless Steel Washer
- ⑨ Oilite Bushing
- ⑩ Sign Mounting Sets, Consisting Of Two Each 5/16" - 18 X 1" Stainless Steel Hex Head Bolt With Stainless Steel Hex Lock Nut. Two Holes On 1-1/2" Centers Provide Positive Lock Sign Mounting TO BRACKET.
- ⑪ 8-1/2" Overall Length Upper Adjustable Sign Bracket Section
- ⑫ 9" Overall Length Lower Adjustable Sign Bracket Section, Including Axle Housing (8" Overall Length To Top Of Axle Housing)
- ⑬ 1/2" - 13 X 1-1/2" Stainless Steel Hex Bolt With Stainless Steel Hex Lock Nut And 1/16" Stainless Steel Washers (both Sides). Loosen Lock Nut, Adjust Bracket Teeth To Level Sign.
- ⑭ 1-1/4" X 1-1/4" X 1/8" Aluminum Angle

Note: Dimensions May Vary Slightly.

NOTES:

1. Signs Shall Be New Street Name Signs. The Contractor Shall Provide The Same Message On The Front And Back Side Of The Sign. Payment Will Not Be Made Separately But Shall Be Considered As One Unit.
2. Colors:
Legend - White (Reflectorized)
Background - Green (Reflectorized)
3. All Panels Shall Be Reflectorized With Type B Reflective Sheeting In Accordance With Section 712.20 Of The Standard Specifications.
4. Borders And Messages Shall Conform To Details As Shown On The Plans And As Specified In The Mutcd.
5. Sign Mounting Brackets, Aluminum Angle, Fixtures, Fasteners, And All Necessary Hardware, And Equipment, Tools, Labor, Materials And Other Incidentals For Installation, Will Not Be Paid For Separately But Shall Be Considered Incidental To Street Name Sign Installation.
6. Maximum Spacing Between Swing Sign Brackets Will Be 3'-0".
7. All Signs Shall Conform To Section 621 Of The Standard Specifications 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"
8. The Two Diacritical Marks The Glottal Stop, A Break Shown By The Apostrophe (') And The Macron (ˉ), Which Serves Two Functions, Used On All Long Vowels, And On One-syllable Words And Particles That Are Always Stressed, Shall Be Installed On The New Street Name Signs In Accordance With The Book Entitled, "hawaiian Street Names", The Hawaiian Dictionary And History Of O'ahu Street Names.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTE BOOK	_____
NO.	_____



This work was prepared by me or under my supervision.
Exp. 04-30-10
Neal S. Fukumoto
Wesley H. Legowo & Associates, Inc.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
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QUEEN KAAHUMANU HIGHWAY WIDENING
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SHEET No. 4 OF 4 SHEETS