YEAR

FISCAL SHEET TOTAL

NO. SHEETS

# Signing & Pavement Marking Notes:

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Existing pavement markings and striping not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The removal of the existing pavement markings shall not be paid for separately but shall be considered incidental to the various pavement marking items.
- 3. Raised pavement markers shall not be installed within crosswalks.
- 4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 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 or directed by the Engineer shall not be paid for and shall be considered incidental to the various signing items.
- 6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- 7. All pavement striping shall be as noted on the Legend or plans.
- 8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- Stop signs indicated to be removed shall be removed after the traffic signal system is operational.
- 10. Removal of Existing Delineators and Posts as directed by the Engineer shall be considered incidental to the various signing items.
- 11. 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.
- 12. Backing for all new regulatory and warning signs shall not be spliced.
- 13. All sign panels shall conform to Section 630 or 631 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
  - "Manual on Uniform Traffic Control Devices" (MUTCD)
  - "Standard Highway Signs"
  - "Standard Alphabets for Highway Signs"
- 14. All new and relocated signs and markers installed on pipe post or light standards are to be mounted with band brackets and steel braces.
- 15. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs call for in Section 645 Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Kauai District Baseyard or as directed by the Engineer at the end of the project. The advance construction warning signs shall be paid under Item No. 645.0100, Traffic Control.

#### Pavement Marking Legend:

Ш	0000	<b>a</b>	4 each Type A Raised Pavement Markers
			Type C Kaised Pavement Markers @ 40'-0" o.d

- 4 each Type J Raised Pavement Markers Type D Raised Pavement Markers @ 40' o.c. 0000
  - 8" White Stripe with Type C Raised Pavment Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow Stripes with Pairs of Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow Stripes with Pairs of Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Yellow Edge Stripes with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Double Solid WhiteStripes with Pairs of Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- Lane Change Restriction Marking 4 each Type A Raised pavement Markers Type C Raised Pavement Markers @ 20'-0" o.c. 4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
- 4" or 8" White Edge Stripe with Type C Raised Pavment Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" White Guide Lines (Tape, Type III or -----Thermoplastic Extrusion except for bus bays)
- Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
- Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
  - Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
  - Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise notes. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
- Pavement Arrows (Tape, Type III or Thermoplastic Extrusion)
- Pavement Word (Tape, Type III or Thermoplastic Extrusion)
- 4 Each Type J Raised Pavement Markers Type D Raised Pavement Markers @ 40'-0" o.c. Type H Raised Pavement Markers (Reflective Surface facing no-passing direction) 4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
- 10',10',10',10' Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/ Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

# Pavement Marking Legend:

- Existing Sign
- New or Relocated Sign
- Outbound Traffic Flow Direction

FED. ROAD STATE

DIST. NO.

FED. AID PROJ. NO.

HAW. |BR-056-1(51)| 2008 | 85

- Inbound Traffic Flow Direction
- Flexible Delineators



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

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dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

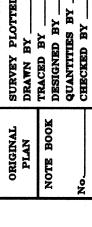
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

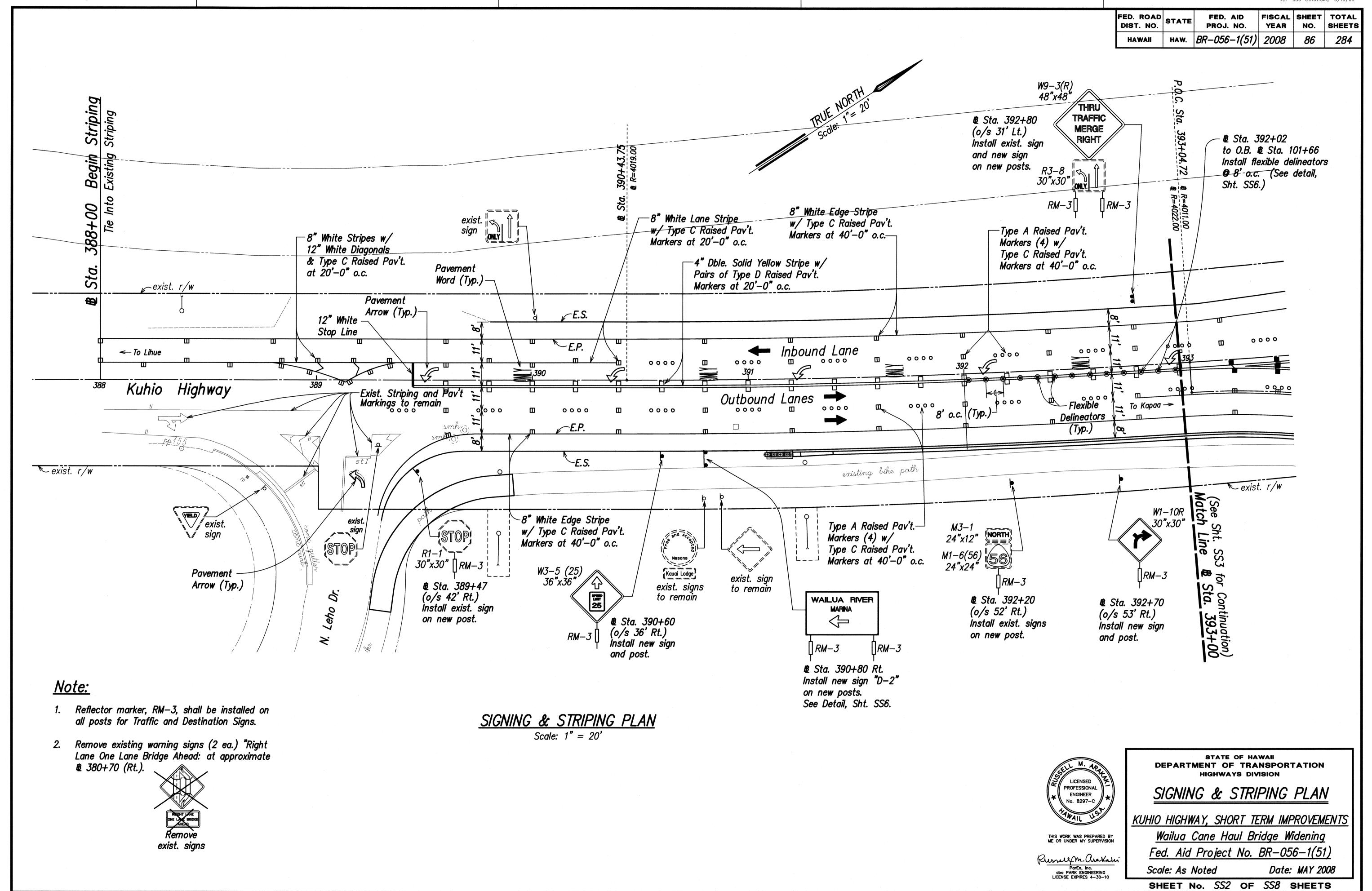
### SIGNING & PAVEMENT MARKING NOTES PAVEMENT MARKING LEGEND

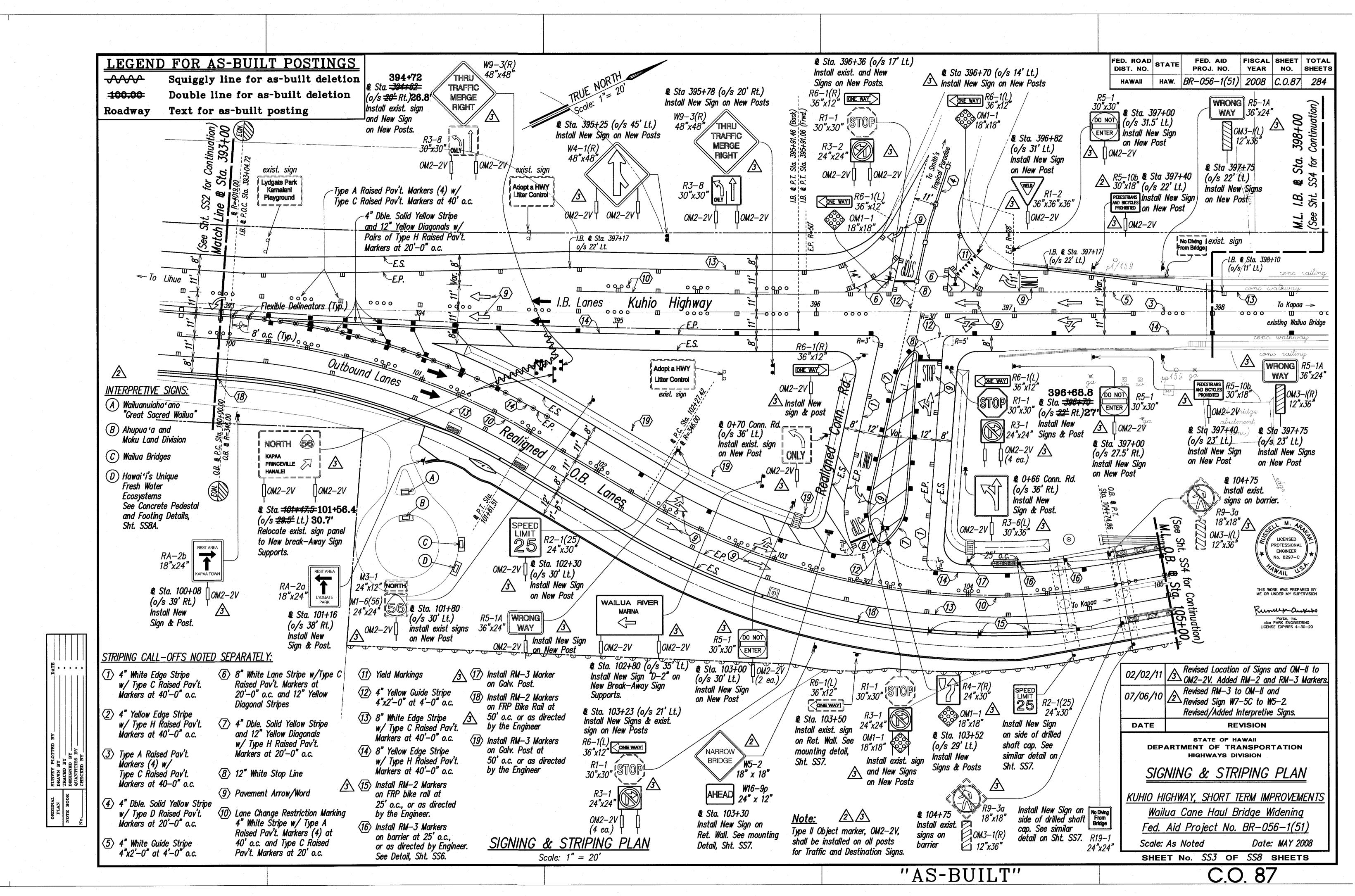
KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS Wailua Cane Haul Bridge Widening

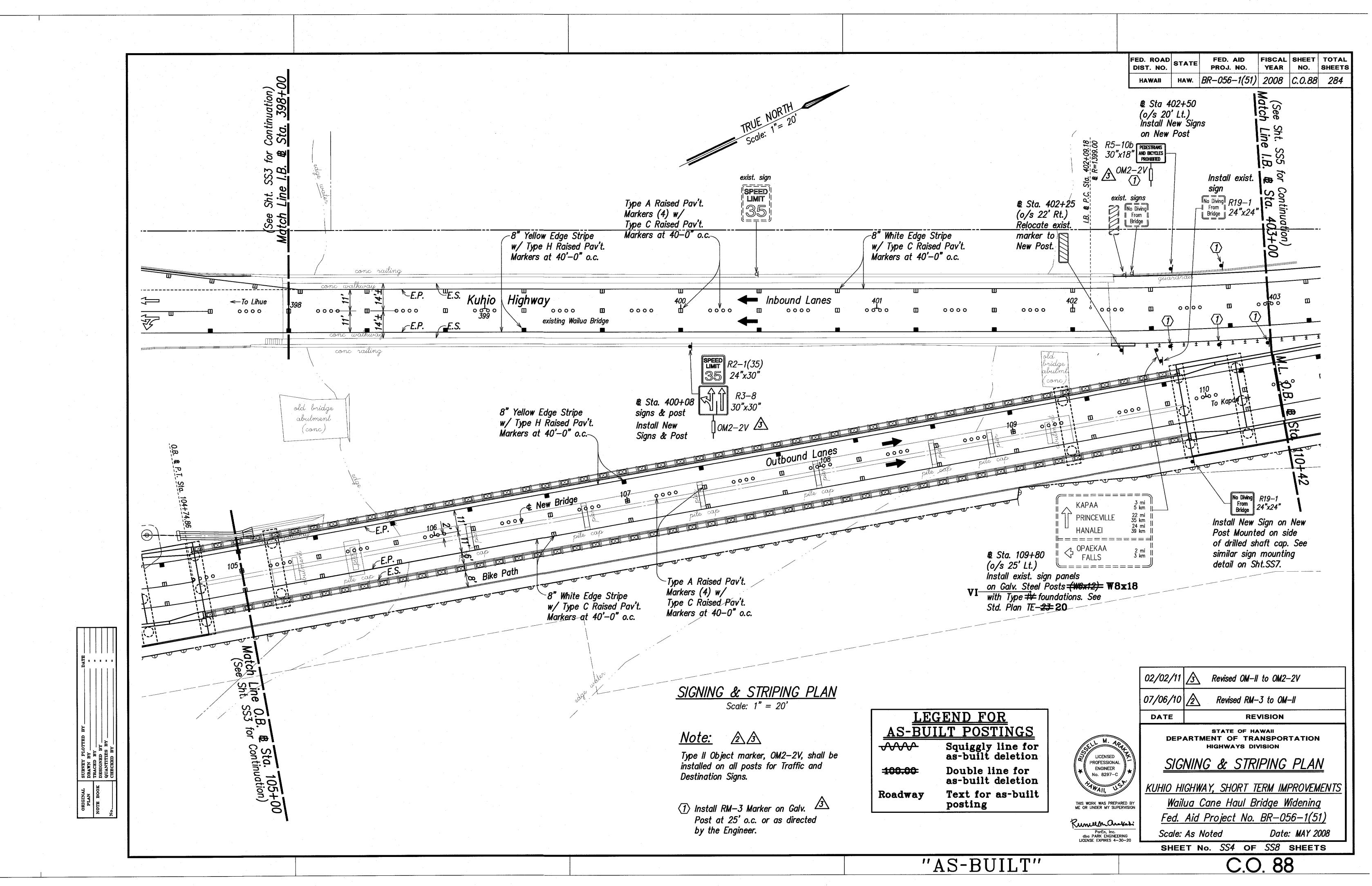
Fed. Aid Project No. BR-056-1(51) Date: MAY 2008 Scale: None

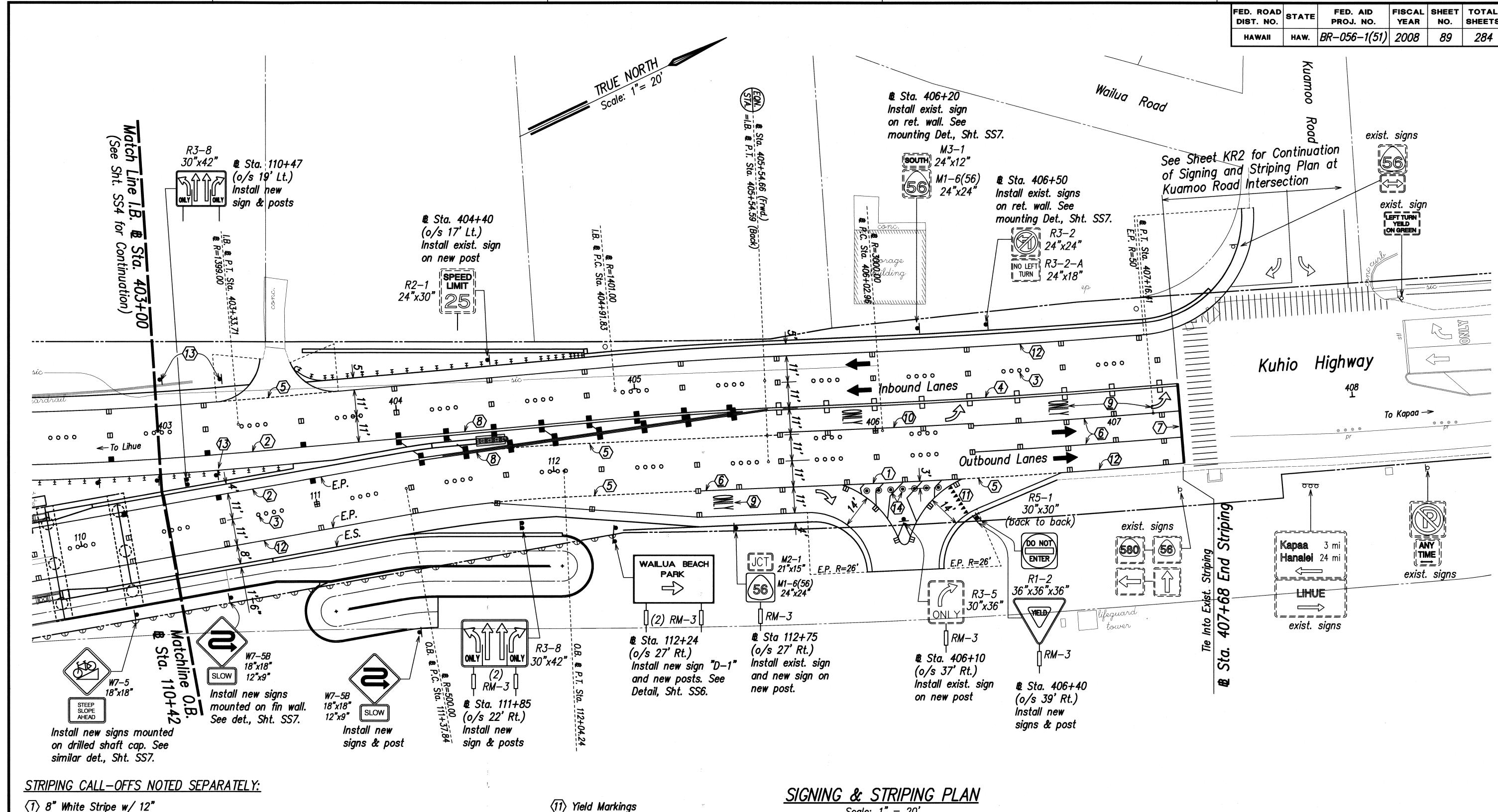
SHEET No. SS1 OF SS8 SHEETS

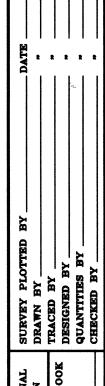












# (1) 8" White Stripe w/ 12"

White Diagonals and Type C Raised Pav't. Markers at 40'-0" o.c.

② 8" Yellow Edge Stripe w/ Type H Raised Pav't. Markers at 40'-0" o.c.

(3) Type A Raised Pav't. Markers (4) w/ Type C Raised Pav't. Markers at 40-0" o.c.

- 4 A Dble. Solid Yellow Stripe w/ Type D Raised Pav't. Markers at 20'-0" o.c.
- 5 4" White Guide Stripe 4"x2'-0" at 4'-0" o.c.
- (6) 8" White Lane Stripe w/ Type C Raised Pav't. Markers at 20'-0" o.c.
- 7 12" White Stop Line
- 8 4" Dble. Solid Yellow Stripe and 12" Yellow Diagonals w/ Pairs of Type H Raised Pav't. Markers at 20'-0" o.c.
- ② Pavement Arrow/Word

(10) Lane Change Restriction Marking 4" White Stripe w/ Type A Raised Pav't. Markers (4) at 40' o.c. and Type C Raised Pav't. Markers at 20' o.c.

(12) 8" White Edge Stripe w/ Type C Raised Pav't. Markers at 40'-0" o.c.

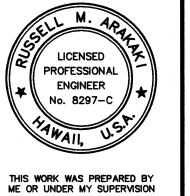
#### ⟨13⟩ Install RM-3 Marker on post @ 25' o.c., or as directed by Engineer.

**√14** Install RM−3 Marker (white) on flexible delineator (white) at 5' o.c., or as directed by Engineer.

# Scale: 1'' = 20'

# *Note:*

1. Reflector marker, RM-3, shall be installed on all posts for Traffic and Destination Signs.



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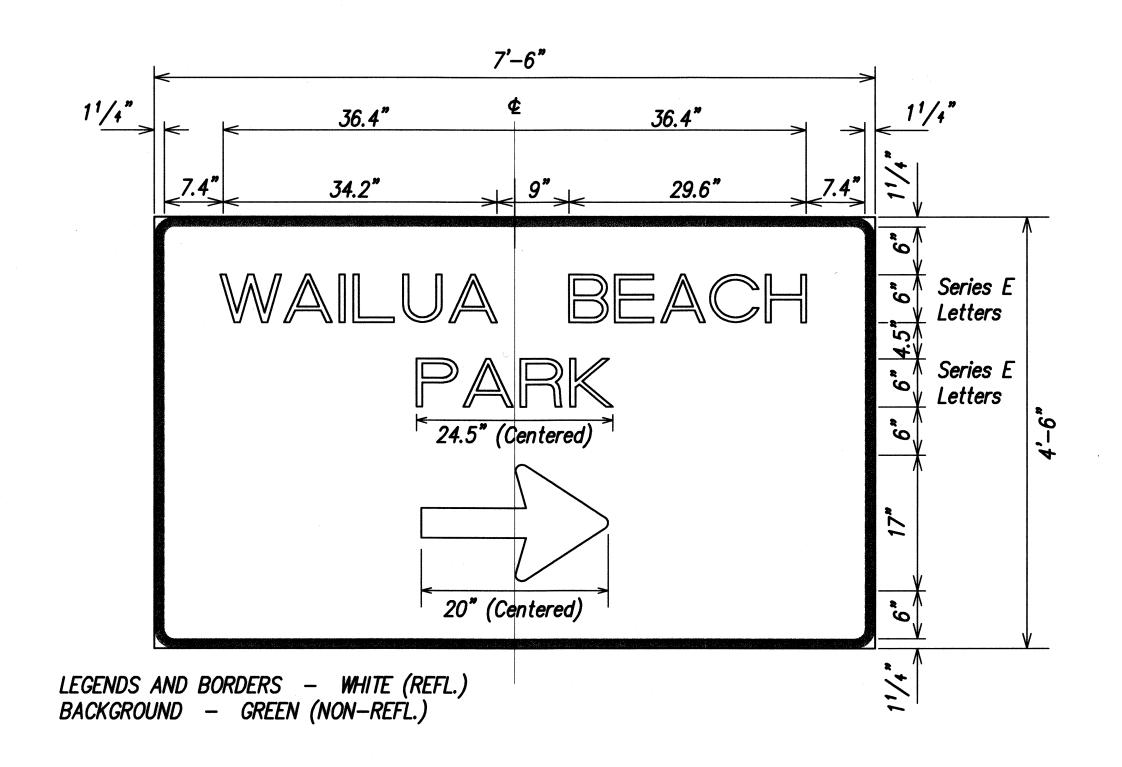
HIGHWAYS DIVISION

# SIGNING & STRIPING PLAN

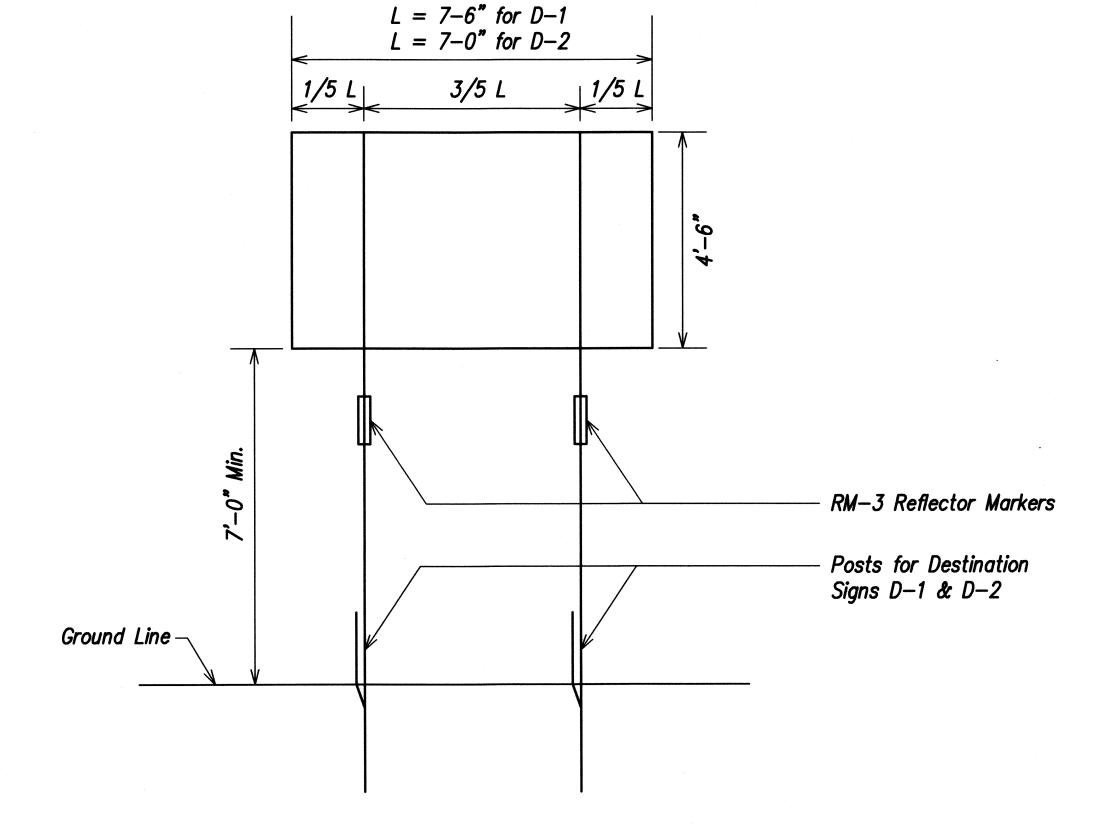
KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS Wailua Cane Haul Bridge Widening Fed. Aid Project No. BR-056-1(51) Scale: As Noted Date: MAY 2008

SHEET No. SS5 OF SS8 SHEETS

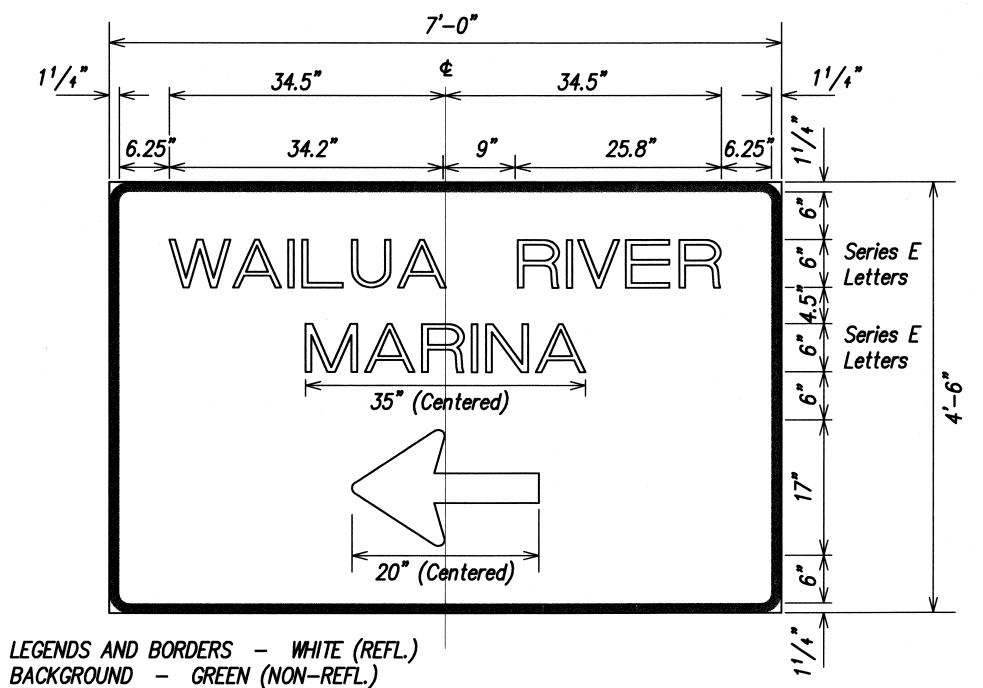
89



D-1 DESTINATION SIGN @ O.B. № Sta. 112+25 (Rt.) (w/ 2 BREAKAWAY POSTS (W6x9) AND FOUNDATION) Scale: 1" = 1'-0"

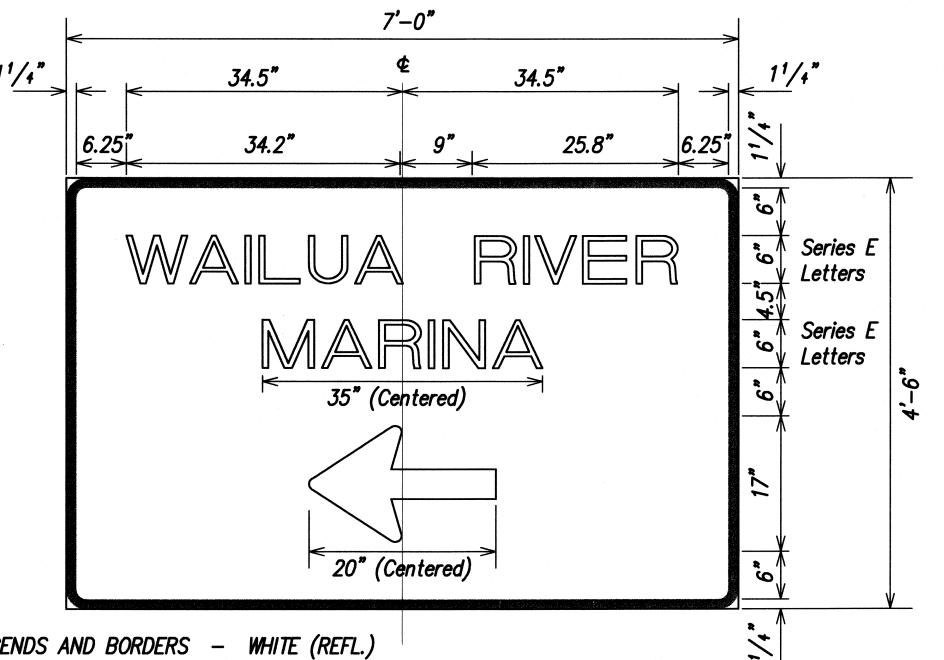


FRAME LAYOUT DETAIL Scale: 1/2" = 1'-0"



D-2 DESTINATION SIGN @ # Sta. 391+00 (Rt.) (w/ 2 BREAKAWAY POSTS (W6x9) AND FOUNDATION)

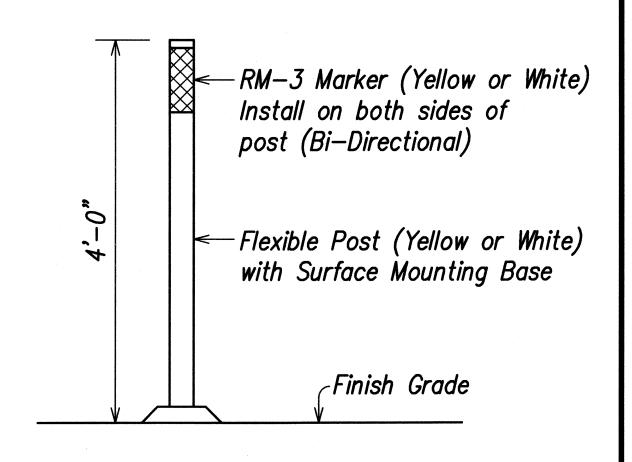
Scale: 1" = 1'-0"



FED. ROAD STATE FED. AID PROJ. NO. YEAR NO. HAW. BR-056-1(51) 2008 90

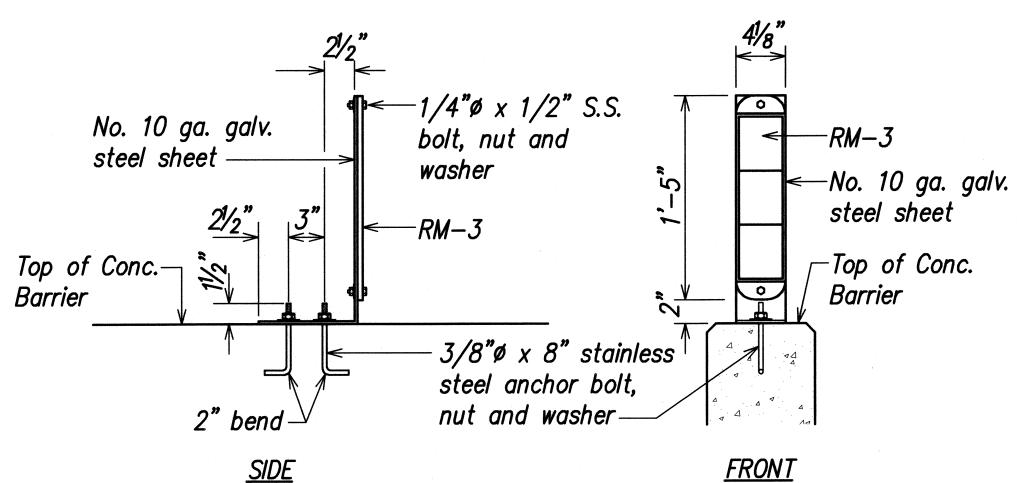
Note:

The color of the flexible post and marker shall match the color of the adjacent stripe.



FLEXIBLE DELINEATOR DETAIL

Scale : 1" = 1'-0"



RM-3 MARKER MOUNTING ON CONCRETE BARRIER DETAIL

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Paren, Inc.

dba PARK ENGINEERING

LICENSE EXPIRES 4-30-10

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

SIGNAGE AND MARKING DETAILS

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS Wailua Cane Haul Bridge Widening Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

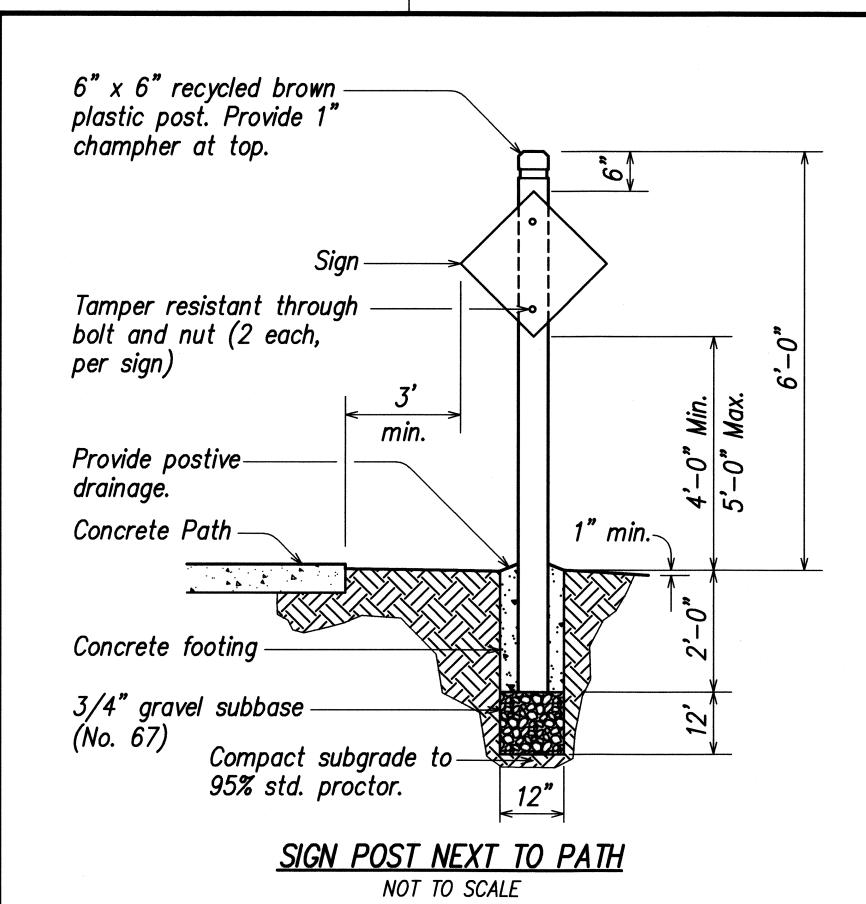
SHEET No. SS6 OF SS8 SHEETS

NO. SHEETS

91 284

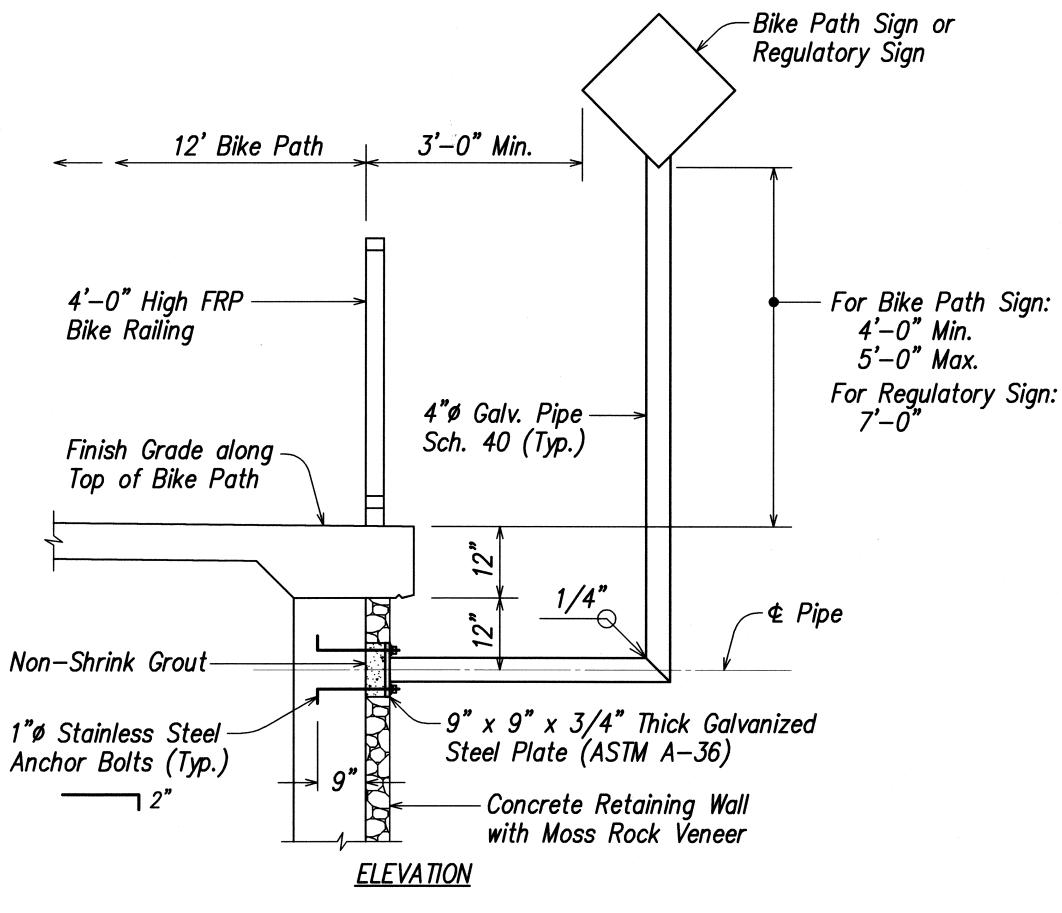
FISCAL

YEAR



## **NOTES:**

- 1. All signs shall be aluminum and conform to HDOT and MUTCD specifications regarding size, thickness and background colors, etc. unless otherwise noted.
- 2. All signs shall be retro-reflective.
- 3. All hardware to be stainless steel unless otherwise noted.
- 4. Provide positive drainage away from all signs.
- 5. All sign construction, including excavation, compaction, crushed rock, concrete footing, backfill, posts, signs and hardware shall be paid under item No. 636.0100 signs for Bike Path.



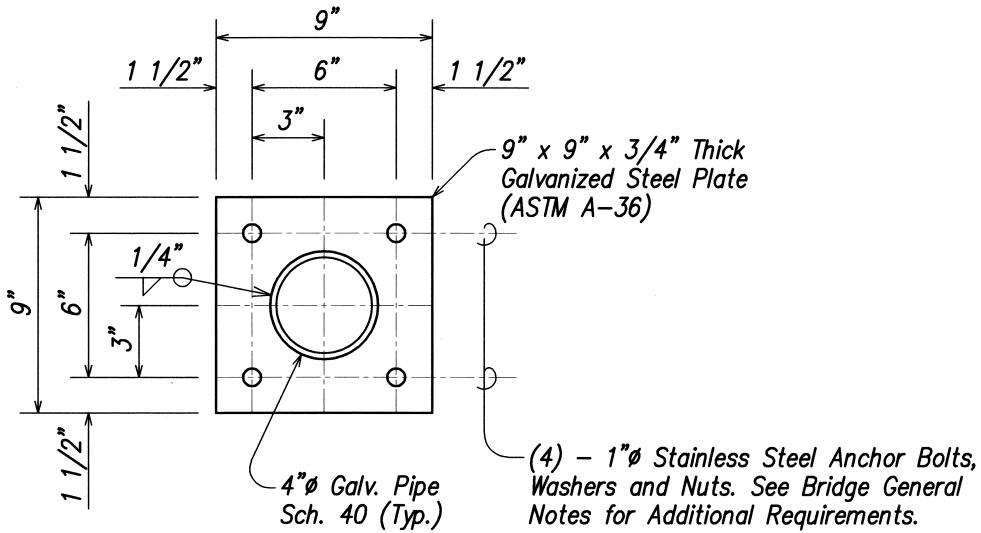
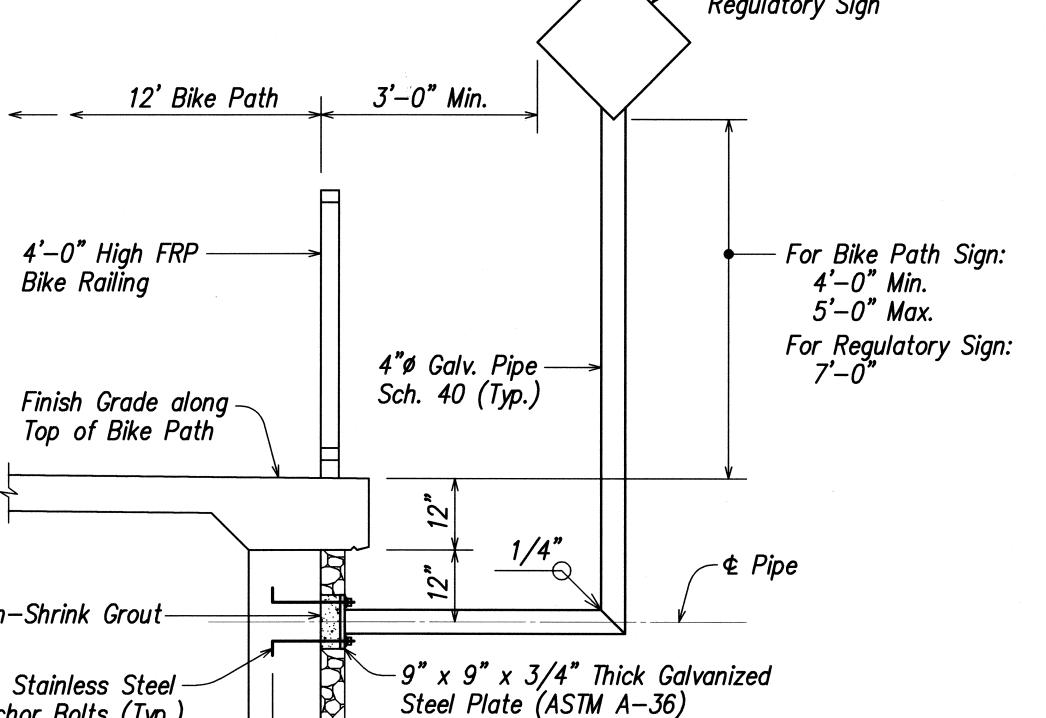
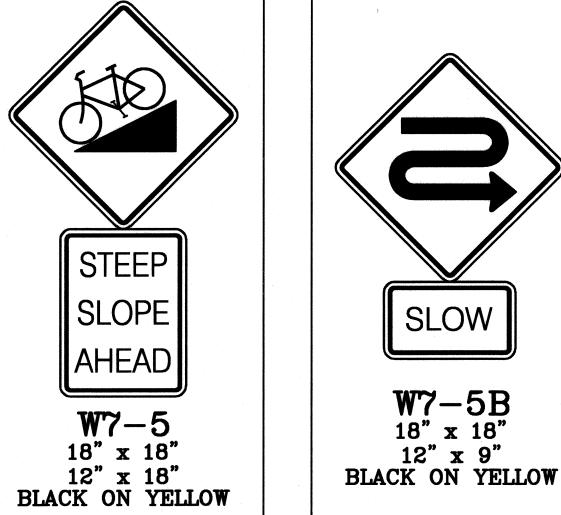


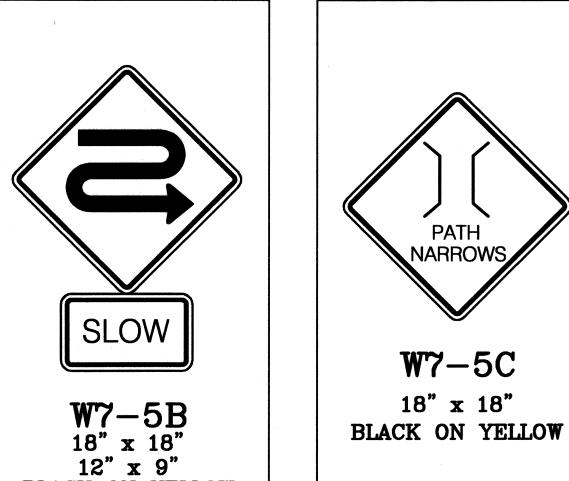
PLATE DETAIL

# SIGN MOUNTING ON RETAINING WALL DETAIL

NOT TO SCALE







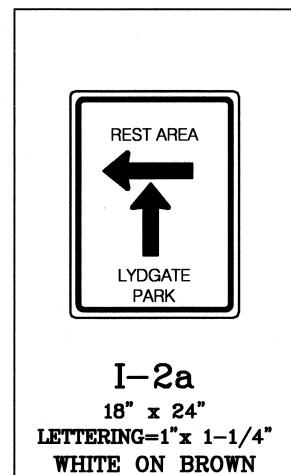
FED. ROAD STATE

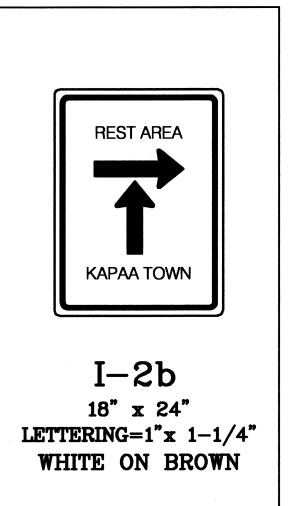
DIST. NO.

FED. AID

PROJ. NO.

HAW. BR-056-1(51) 2008







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dba PARK ENGINEERING

LICENSE EXPIRES 4-30-10

STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

# SIGNAGE DETAILS

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS Wailua Cane Haul Bridge Widening Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

SHEET No. SS7 OF SS8 SHEETS

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	FED. ROAD DIST. NO.		1 4.01	FISCAL YEAR	SHEET	
	HAWAII	HAW.	BR-056-1(51)		92	284

INSTALLATION NOTES:

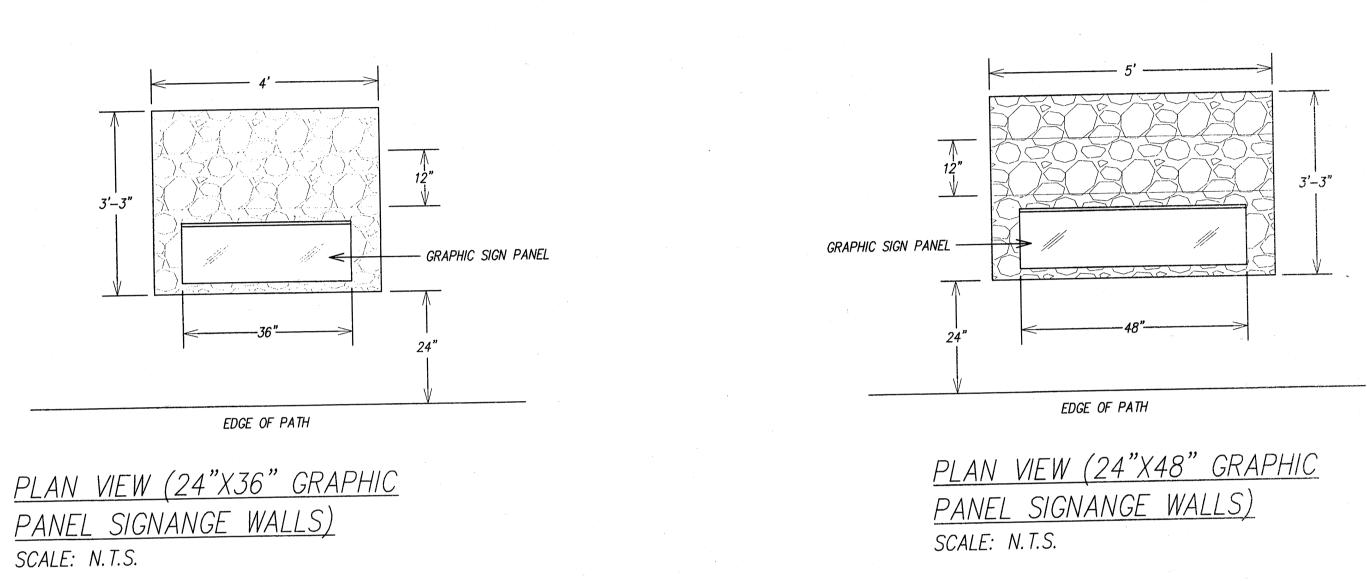
1. MOSS ROCK WALL SHALL BE MORTARED IN PLACE WITH NO EXPOSED MORTAR JOINTS SHOWING.

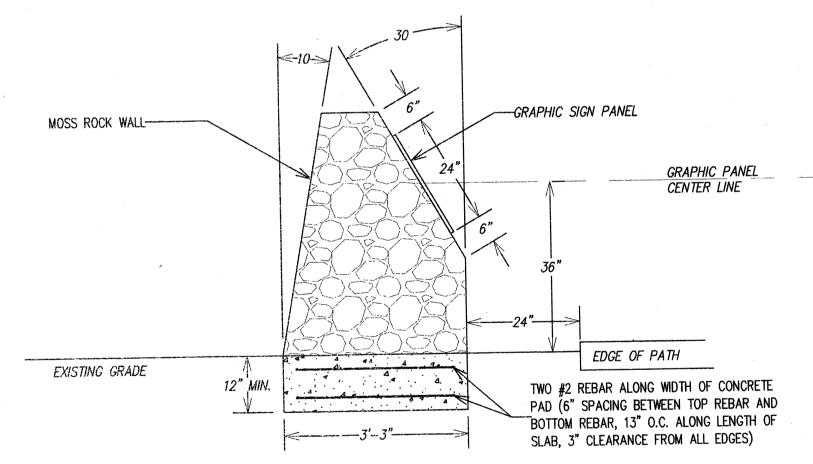
2. MINIMUM INDIVIDUAL ROCK DIAMETER FOR WALL: 3"; MAXIMUM INDIVIDUAL ROCK DIAMTER FOR WALL: 8".

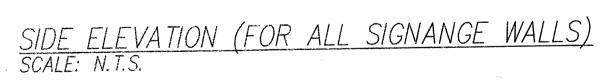
3. GRAPHIC PANEL SHALL BE 1/2" THICK RHINO GRAPHIC PANEL FROM INTERPRETIVE EXHIBITS, INC. (503)371-9411 OR EQUAL AND ACCEPTABLE TO THE ENGINEER.

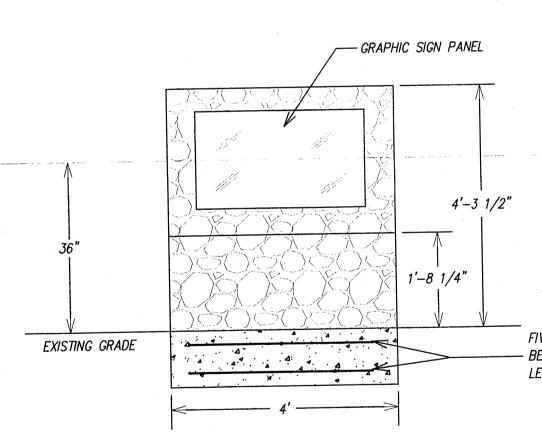
4. EDGES OF GRAPHIC PANEL SHALL BE CHAMFERED AT ALL EDGES AT A 45 DEGREE ANGLE. ENSURE THAT ALL EDGES ARE ROUNDED (NO EXTERNAL SHARP EDGES SHALL PROTRUDE FROM THE PANEL). 5. 1/4" X 6" STAINLESS STEEL "J" HOOKS SHALL BE EMBEDDED IN THE GRAPHIC PANEL FOR ATTACHMENT TO THE MOSS ROCK WALL (5 EACH FOR 24"X36" GRAPHIC PANEL, 6 EACH FOR 24"X48" GRAPHIC PANEL).
6. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO MANUFACTURING SIGN GRAPHIC PANEL OR ROCK WALL.

7. OWNER SHALL PROVIDE ARTWORK TO CONTRACTOR IN ADOBE INDESIGN, ADOBE ILLUSTRATOR, OR ADOBE PHOTOSHOP FORMAT TO SUBMIT TO THE GRAPHIC PANEL FABRICATOR.

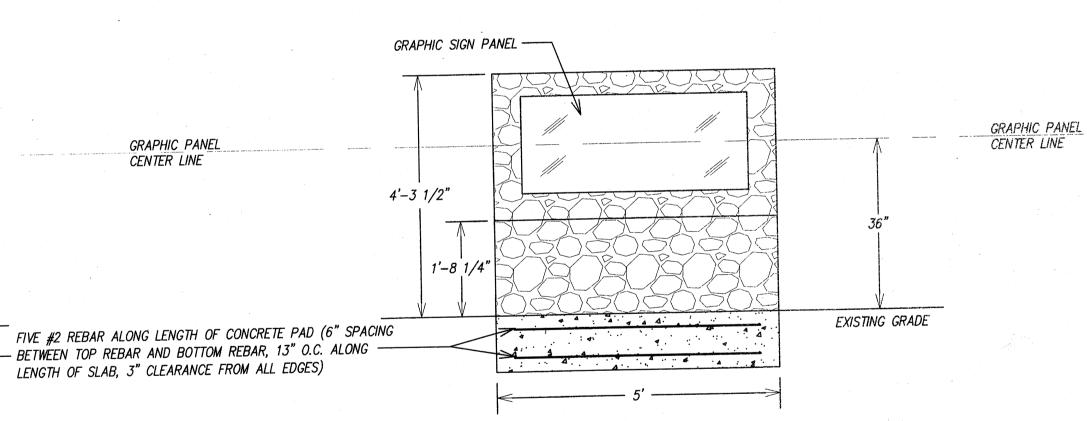








FRONT ELEVATION (24"X36" GRAPHIC PANEL SIGNANGE WALLS) SCALE: N.T.S.



FRONT ELEVATION (24"X48" GRAPHIC PANEL SIGNANGE WALLS) SCALE: N.T.S.



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION INTERPRETIVE SIGNANGE

DETAIL SHEET KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening Fed. Aid Project No. BR-056-1(51) Date: MAY 2008

Scale: As Noted sheet no. *\$\$8* of *\$\$8* sheets

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