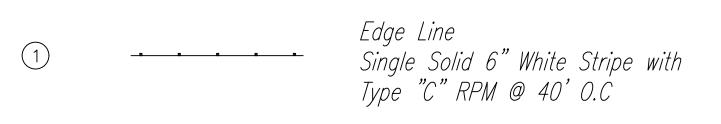
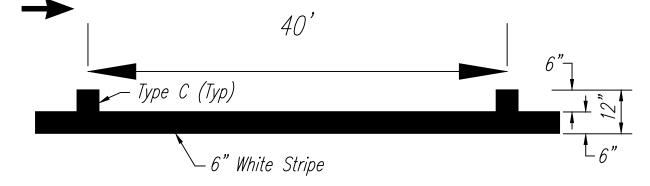


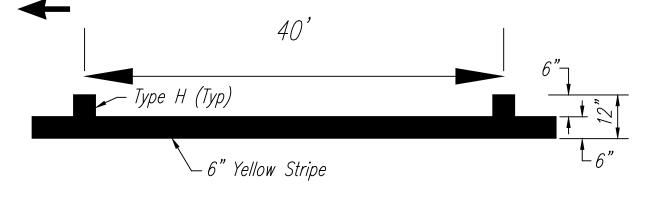
SIGNAGE & STRIPING NOTES:

- 1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The Contractor shall consider the work required for the removal of pavement markings incidental to the various contract items.
- 3. The cost for temporary pavement markings shall be incidental to the various pavement marking contract items.
- 4. Raised pavement markers shall not be installed within crosswalks.
- 5. Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 6. All pavement striping shall be as noted on the legend or plans.
- 7. 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.
- 8. Backing for all new regulatory and warning signs shall not be spliced.
- 9. All sign panels shall conform to Section 750.01 of Standard Specifications and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (M.U.T.C.D.)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets For Highway Signs"
- 9. All relocated signs and markers installed on pipe posts or light standard are to be mounted on new square tubes with band brackets and steel braces.
- 10. 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.
- 11. Removal of existing delineators and posts, as directed by the Engineer or shown on the plans, shall be considered incidental to the various signing items.
- 12. Sign posts shall be square tubes posts (2" or 2 1/2") unless shown on these plans or directed by Engineer.
- 13. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as directed by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- 14. Prior to installing new striping, existing striping and markers shall be completely removed according to Specification Section 629.03(D) Removal of Existing Pavement Markings. This work shall be incidental to the various striping pay items and shall not be paid for separately.

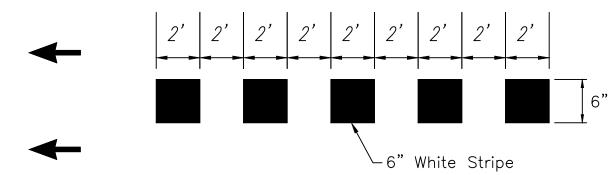






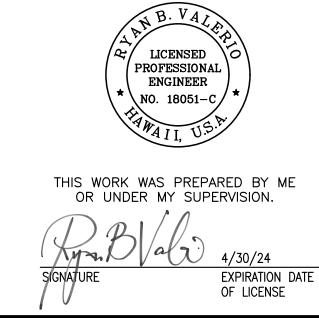






PAVEMENT MARKING LEGEND

Not To Scale



FED. ROAD

DIST. NO.

STATE

FED-AID

PROJ. NO.

наw. | *HSIP-093-1(031)* | *2022* |

FISCAL

YEAR

SHEET TOTAL

59

NO. SHEETS

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

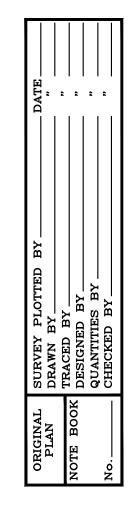
SIGNAGE & STRIPING DETAILS
FARRINGTON HIGHWAY

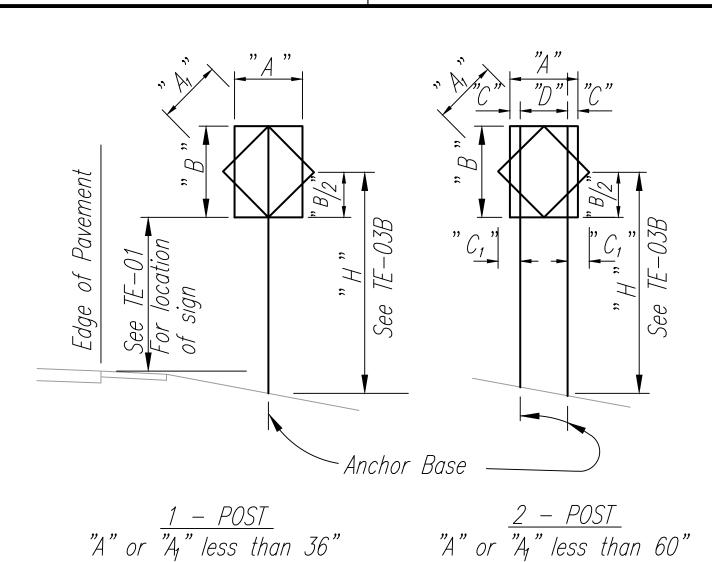
<u>FARRINGTON HIGHWAY</u> <u>SAFETY IMPROVEMENTS</u> <u>Pohakunui Avenue to Interstate H-1</u>

<u>Federal Aid Project No. HSIP-093-1(031)</u>

Date: November 2021

SHEET No. 11 OF 12 SHEETS

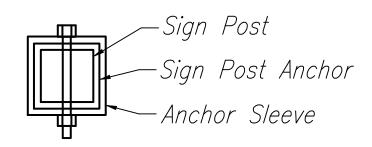


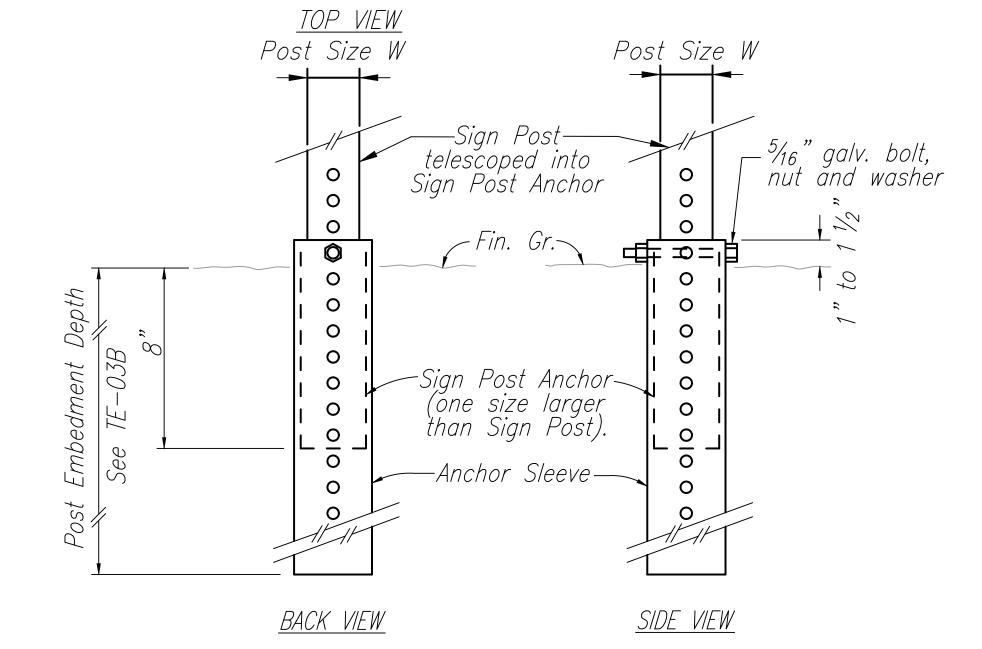


"A" or "A ₄ "	"C"	"C ₁ "
Less than 36"	6 "	
Greater than 36" and less than 48"	9"	19"
Greater than 48"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24" See General Notes.

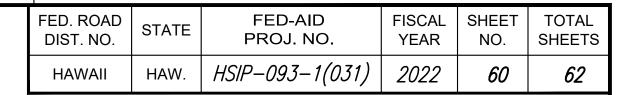
TYPICAL INSTALLATION





SIGN POST INSTALLATION

ANCHOR BASE DETAIL



GENERAL NOTES

- 1. <u>Design Specifications:</u>
 - (A) Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
 - (B) Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."

<u>Loads:</u>

- (A) Basic Wind Speed: 105 mph.
- (B) Recurrence Interval of 10 years.

<u>Materials:</u>

- (A) Post shall conform to the Standard Specifications.
- (B) All connection bolts shall be AASHTO M164 bolts and anchor bolts shall be AASHTO M314-105 bolt.
- (C) Lap splice nuts and bolts shall be M180, with an ultimate tensile strength of 180 ksi, min.
- (D) Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as approved by the Engineer.

- (A) See General Notes on B-01, TE-01, and TE-03B for additional information.
- (B) All posts shall be 12 gage unless otherwise specified or shown on the plans.
- (C) Square tube posts shall be perforated with 7/16" of holes, 1" o.c., 4 sides, along entire length of post.
- (D) All accessories, fittings and stiffener details (as required) shall be submitted to the Engineer for approval 20 days prior to installation.
- (E) Alternate designs in accordance with the plans and specifications shall use the Service Load Design Method and shall be stamped by a registered structural engineer of the State of Hawaii and submitted to the Engineer for approval.
- (F) All sign support posts shall be outside of the clear zone or shielded by an appropriate traffic barrier system. The traffic barrier system shall be submitted to the Engineer for his approval.
- (G) The Contractor shall use templates while installing the anchor bolts. Anchor bolts shall be vertical.
- (H) Excavation and backfill shall be considered incidental to the cost of the sign foundation.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. /a(1) 4/30/24

EXPIRATION DATE OF LICENSE

SIGNAGE DETAIL FARRINGTON HIGHWAY SAFETY IMPROVEMENTS Pohakunui Avenue to Interstate H-1

Federal Aid Project No. HSIP-093-1(031) Date: November 2021

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

SHEET No. 12

OF *12* SHEETS