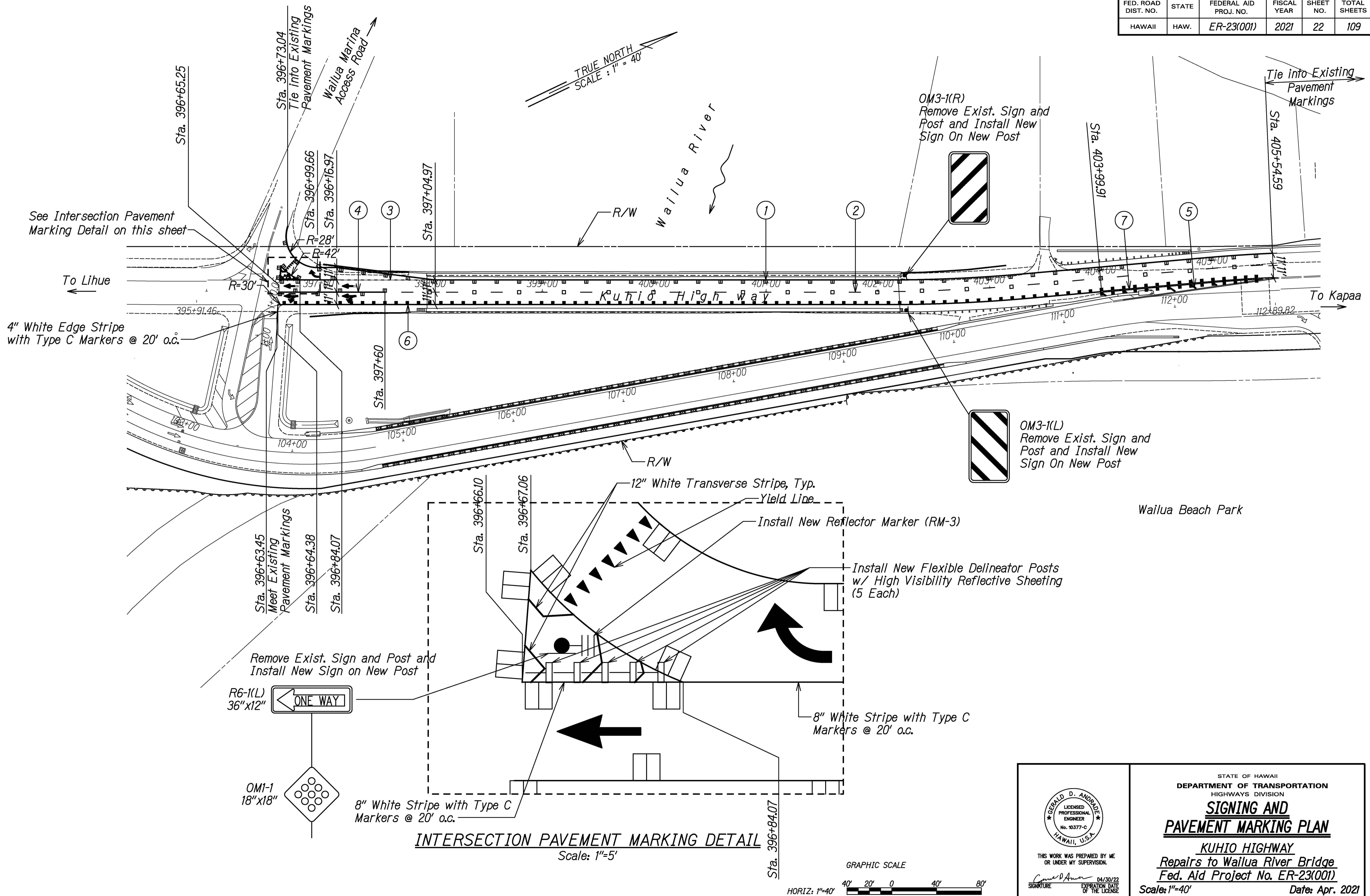
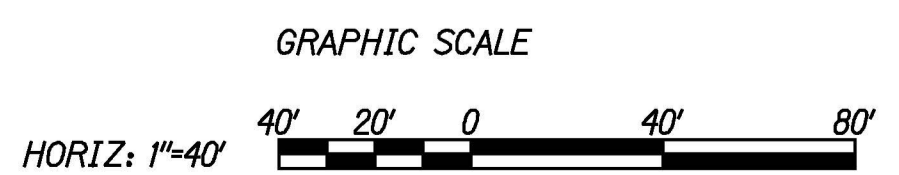


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-23(001)	2021	22	109



INTERSECTION PAVEMENT MARKING DETAIL
Scale: 1"=5'



DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
CHECKED BY	
DATE	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

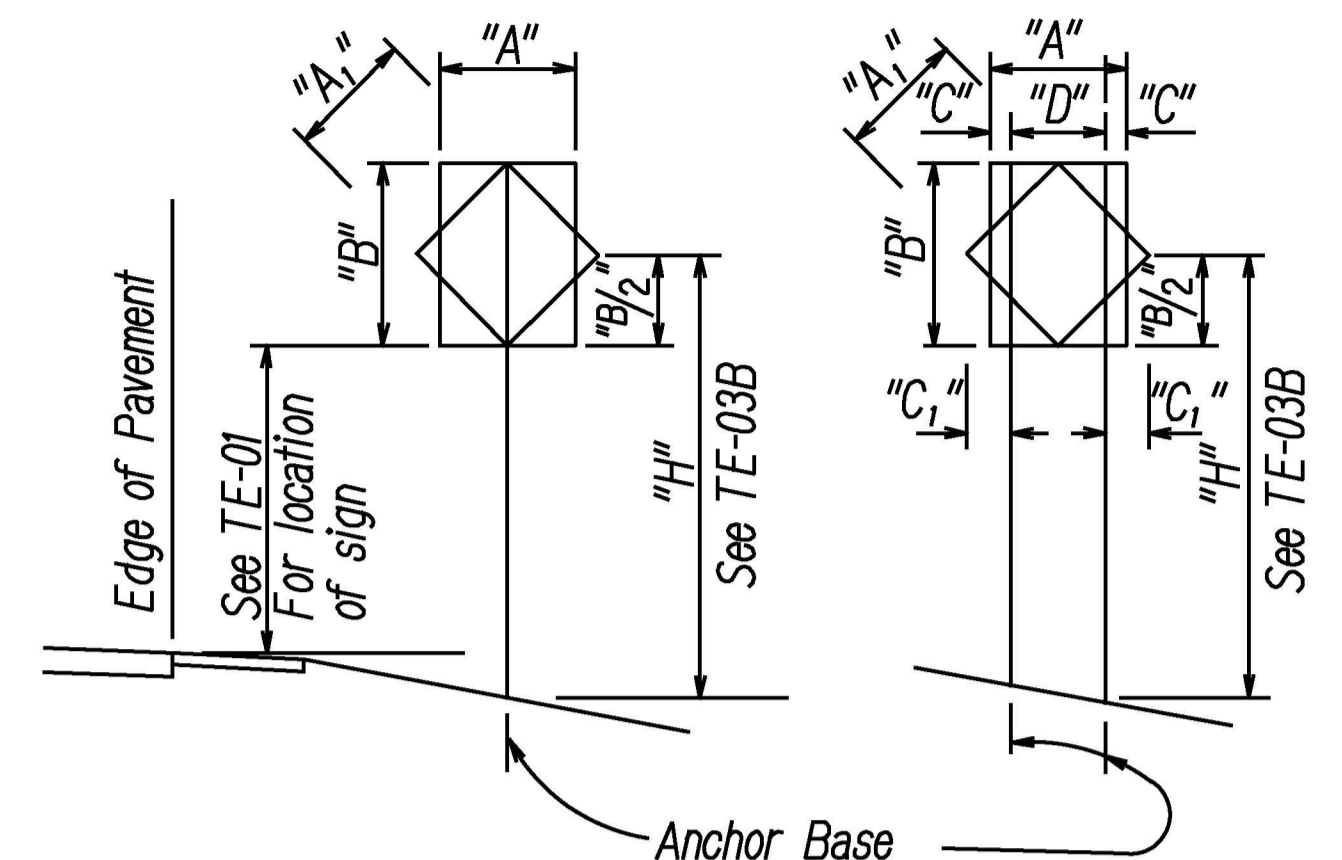
Signature: *Gerald D. Andrade* 04/30/22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

KUHIO HIGHWAY
Repairs to Wailua River Bridge
Fed. Aid Project No. ER-23(001)

Scale: 1"=40' Date: Apr. 2021



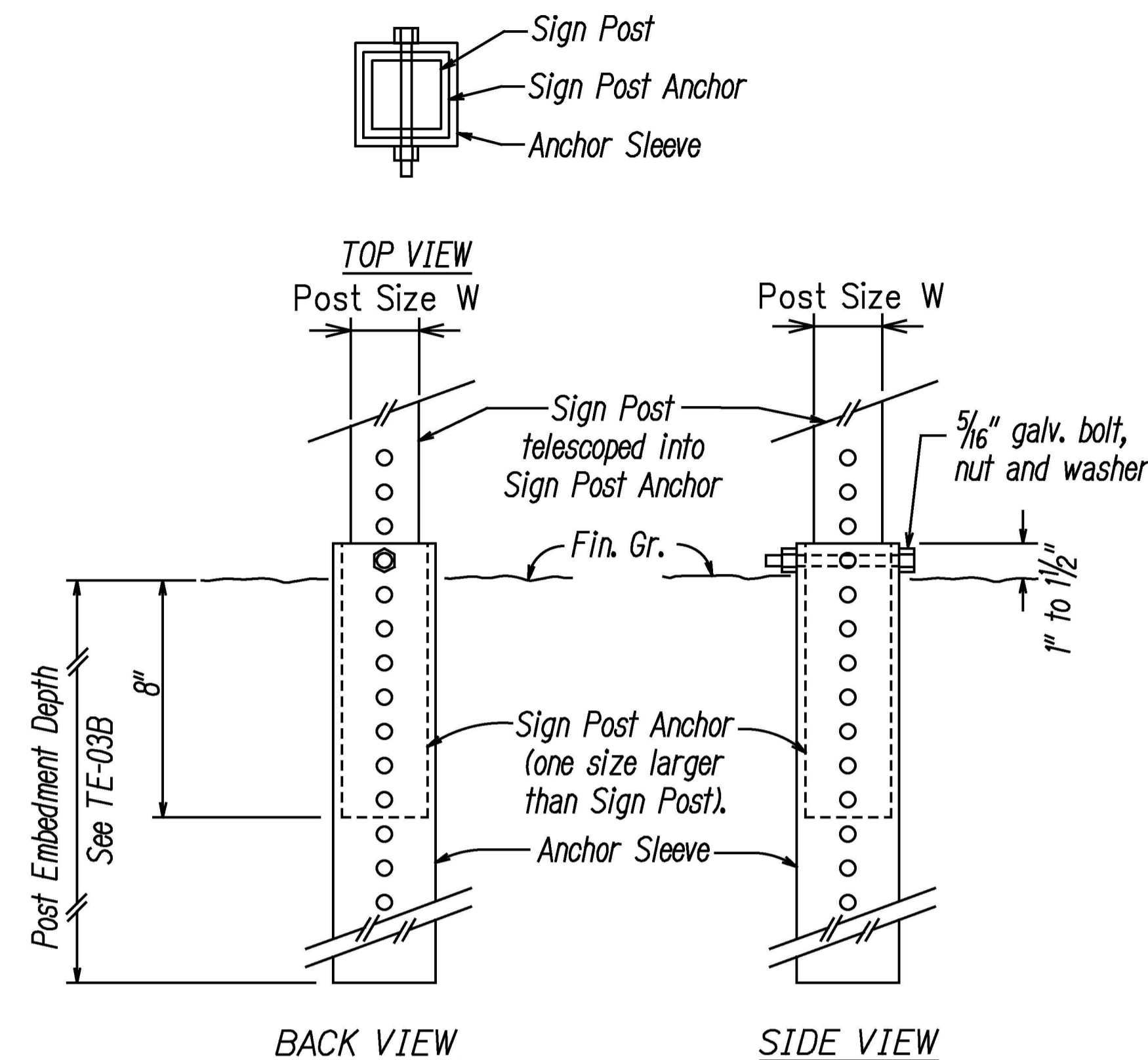
1 - POST
"A" or "A₁" less than 36"

2 - POST
"A" or "A₁" less than 60"

"A" or "A ₁ "	"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



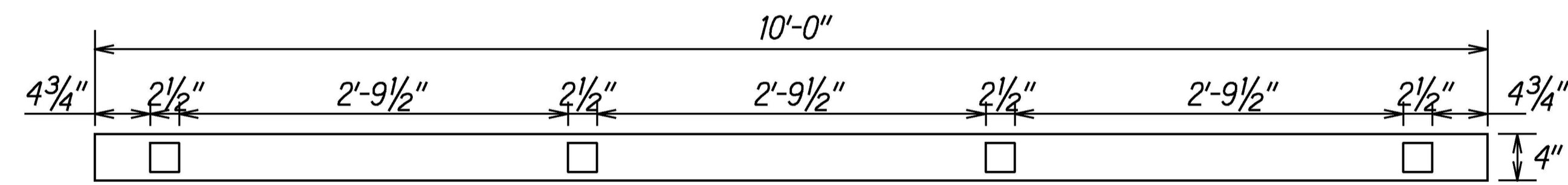
BACK VIEW SIDE VIEW

SIGN POST INSTALLATION

ANCHOR BASE DETAIL

GENERAL NOTES

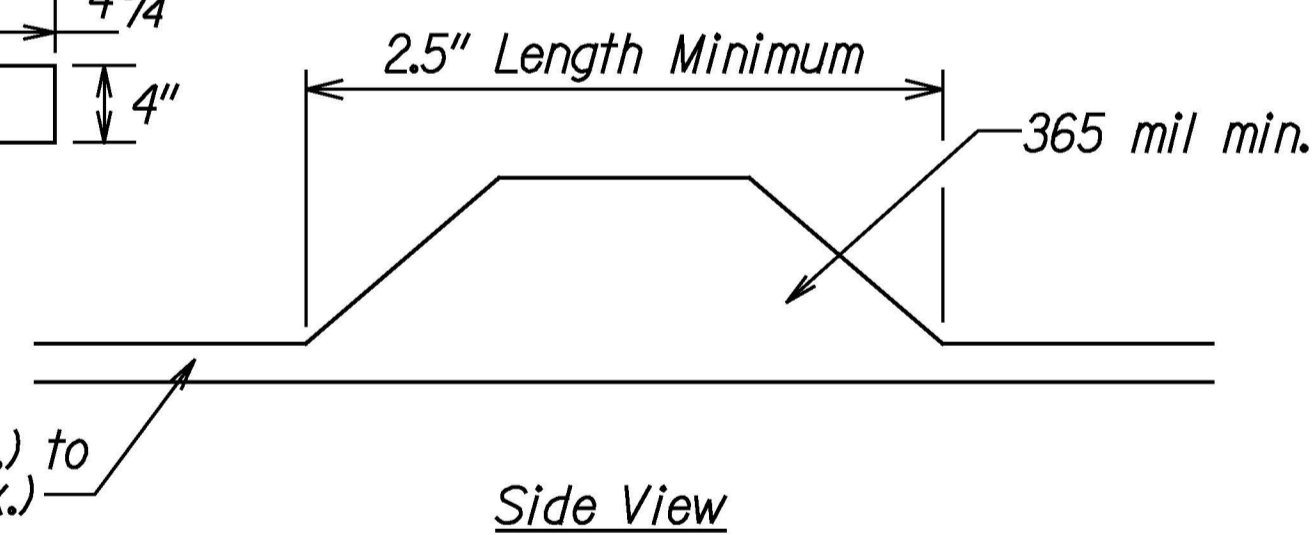
- Design Specifications:
 - (A) Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
 - (B) Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."
- Loads:
 - (A) Basic Wind Speed: 105 mph.
 - (B) Recurrence Interval of 10 years.
- Materials:
 - (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.
- General:
 - (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" ϕ 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.



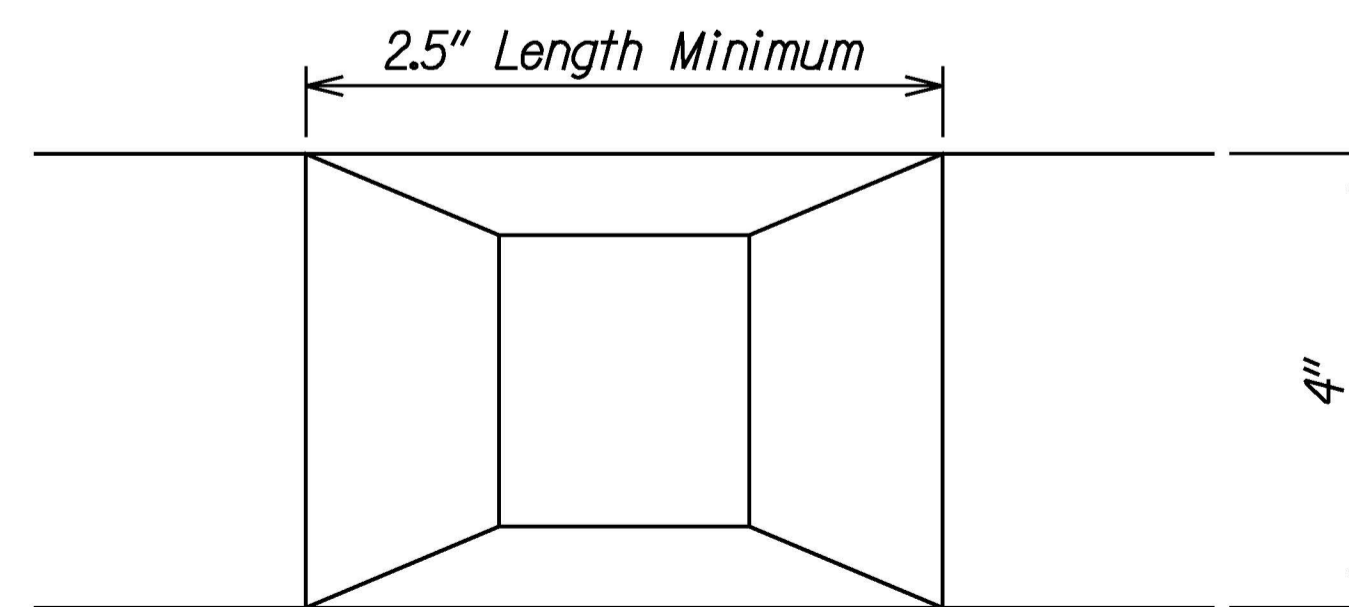
Top View Lane Line

Profiles placed on 36" o.c.
365 mil height (min.), including 100-125 mil baseline.
Width equal to approximately baseline width.

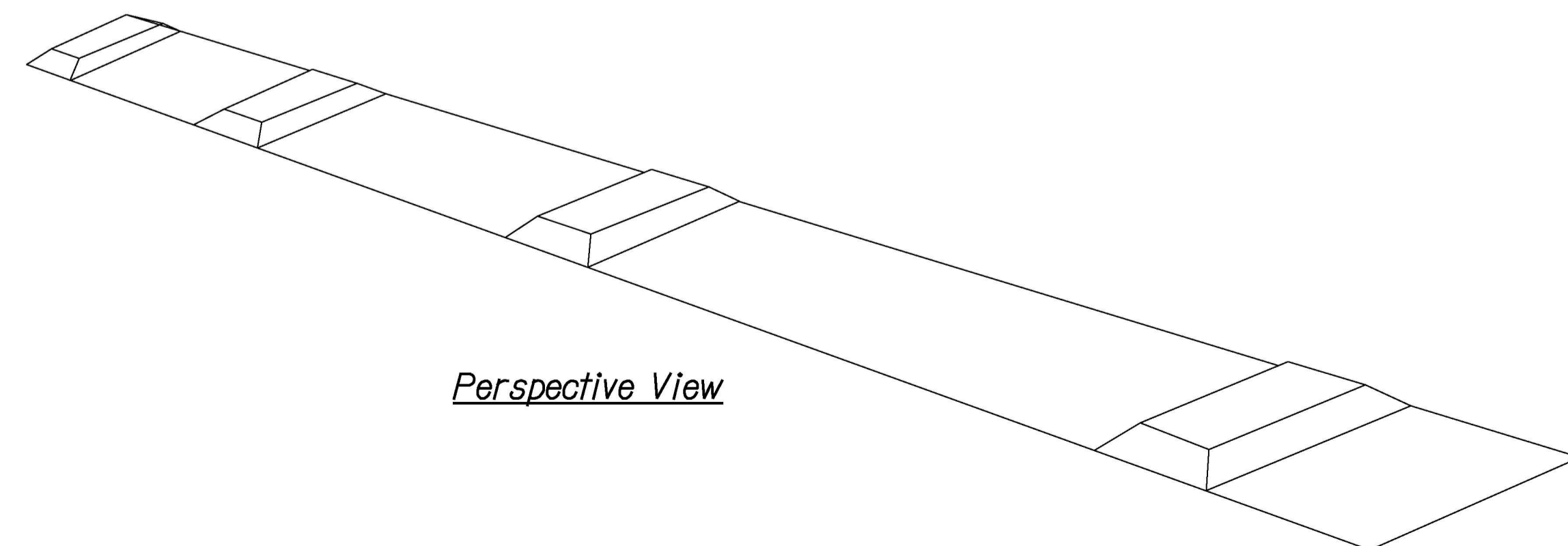
100 mil (min.) to 125 mil (max.)



Side View



Top View



Perspective View

PROFILED THERMOPLASTIC STRIPING

Not to Scale

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
NO.	

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	GALVANIZED SQUARE TUBE SIGN POST MOUNTING AND PROFILED THERMOPLASTIC STRIPING
	KUHIO HIGHWAY Repairs to Wailua River Bridge Fed. Aid Project No. ER-23(001)
	Scale: None Date: Apr. 2021