

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	7/22
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	

GENERAL NOTES

- The project includes replacing and upgrading existing guardrails and end treatments to meet current standards. The installation of new guardrail sections and end treatments, and minor shoulder improvements are included at selected locations. The project improvements also include the installation of 1½ inch of Hot Mix Asphalt (HMA) pavement at guardrail front, under, behind, and beyond terminals.
- The removal of existing guardrail and end terminal treatments shall include disposal and be considered incidental to various contract items. The installation of new guardrail systems and end terminal treatments shall include guardrail sections, guardrail posts, terminal connectors, end sections, spacer blocks (Standard 8-inch), reflector markers (RM-5), and mounting hardware.
- The installation of new terminal end treatments with rubrail shall include the guardrail rubrail beyond (up to 75-feet) the end treatment average limit of payment and be considered incidental to the end treatment pay item. The installation of MFLT (TL-3) and MSKT-SP-MGS8 (TL-3) end treatments shall include a 5-foot (minimum) clear area behind the end treatment. Existing anchor blocks embedded in rock may be abandoned in place if projected by new end treatment and guardrail rubrail.
- The resetting of existing traffic signs, highway milepost markers and object markers to accommodate new guardrail and end terminal treatments shall be considered incidental to various contract items.
- The Contractor's attention is directed to the following Sections Special Provisions: Section 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility for Utility Property and Services and Section 645 - Traffic Control.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- Dressing of shoulder shall consists of clearing, grubbing, grading, reshaping, and compacting the unpaved shoulders with suitable excavated materials as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.
- All construction signs shall be left in place until all construction items have been completed. Contractor shall obtain prior approval from the Engineer to remove construction signs.
- All lanes shall be open to traffic during the morning peak hours from 6:00 a.m. to 8:00 a.m. during afternoon peak hours from 4:00 p.m. to 6:00 p.m. off work hours. Only one lane of highway shall be closed at any other time.
- The Contractor shall not leave more than 1½" drop-off at the edge of pavement, at the end of each work day. Whenever the Contractor leaves a 1½" drop-off, the Contractor shall install delineators and barricades along the edge of the pavement. This work, which includes furnishing, installing, cleaning, maintaining correct placement and removing when required, shall be considered incidental to various contract items.
- At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

- The Contractor shall provide for access to and from all existing sideroads and driveways at all times.
- The Contractor shall construct shoulder and install guardrail only one side at a time.
- All new guardrail shall be paved in front, under, beyond and front of end terminals. Prior to installing HMA V, level and remove vegetation and compact existing ground. Refer to Plan Sheet 8.
- New end treatments shall be MASH compliant. Contractor will be required to submit shop drawing for approval during construction.

Section 7 of the Endangered Species Act:

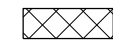


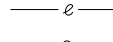
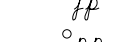
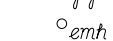
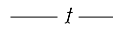
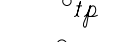
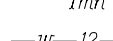
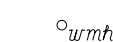
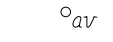
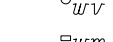
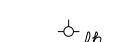
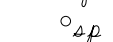
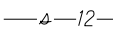
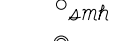
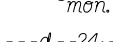
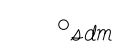
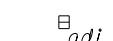
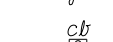
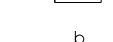


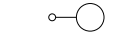






- To avoid impacts to listed Hawaiian seabirds, nighttime construction is not anticipated. If nighttime construction does occur, it shall be scheduled to avoid the seabird fledging period, September 15 through December 15. If nighttime construction occurs during other times of the year, all lighting shall be fully shielded and directed toward the ground so the bulb can only be seen from below to avoid attracting adult seabirds as they travel from the ocean to their breeding areas. Any required outdoor lighting shall have the appropriate automatic motion sensor switches and timer controls to turn off lights when there is no human activity in the vicinity. Where fences extend above vegetation, integrate durable scare tape or bird deterrent into the fence to increase visibility and minimize fence strikes.
- To avoid impacts to the Hawaiian hoary bat, no woody plants (e.g., trees and shrubs) taller than 15 feet shall be trimmed, removed, or disturbed during the hoary bat birthing and pup rearing season, June 1 through September 15.
- To avoid impacts to the Blackburn's sphinx moth, all work will occur on an existing roadway and be within the State highway right-of-way. The shoulder areas within the right-of-way are maintained on a regular basis to limit the growth of vegetation and avoid attraction of the Blackburn's sphinx moth. No critical habitat is located within the State highway right-of-way.
- To avoid impacts to the Hawaiian Stilt, no standing water will be allowed within the construction area(s) to eliminate any water resources.
- No above or below ground utilities will be moved or realigned with this project.
- No highway lighting will be installed or replaced with this project.

Section 106 of the National Historic Preservation Act:

- If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find.
- If human remains are discovered, Hawaii Administrative Rule Title 13, Chapter 300 states that further disturbances and activities shall cease in any area or nearby area suspected of overlie remains, and SHPD and the Maui Police Department will be contacted. The human remains will be treated in conformance with HAR 13-300 Subchapter 4, "Procedures for Proper Treatment of Burial Sites and Human Skeletal Remains."

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(058)	2022	3	38

LEGEND

-  Reconstruction Areas
-  Resurfacing Limits
-  Existing Electrical Pull Box
-  Existing Electrical Line
-  Existing Joint Pole
-  Existing Power Pole
-  Existing Electric Manhole
-  Existing Telephone Line
-  Existing Telephone Pole
-  Existing Telephone Manhole
-  Existing 12" Water Line
-  Existing Water Manhole
-  Existing Water Air Valve
-  Existing Water Valve Box
-  Existing Water Meter
-  Existing Fire Hydrant
-  Existing Standpipe
-  Existing 12" Sewer Line
-  Existing Sewer Manhole
-  Existing Monument
-  Existing 24" Drain Line
-  Existing Storm Drain Manhole
-  Existing Grated Drop Inlet
-  Existing Catch Basin
-  Existing Traffic Sign
-  New Traffic Sign
-  New Traffic Sign With 2 Posts
-  Existing Street Light
-  Existing Metal Guardrail
-  New Metal Guardrail

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

HONOAPIILANI HIGHWAY

GUARDRAIL & SHOULDER IMPROVEMENTS

Vicinity of North Kihei Road to Hononana

Federal-Aid Project No. STP-030-1(058)

Date: July, 2022

SHEET No. 1 OF 1 SHEETS