

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(028)	2022	3	42

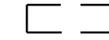
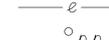
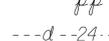
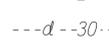
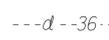
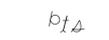
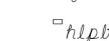
## GENERAL NOTES

1. The scope of work for this project consists of removing and disposing of existing ultra-thin white-topping (UTW) and reconstructing with asphalt concrete, cold planing, resurfacing, replacing existing loop detectors, and installing pavement markings, striping, and milled rumble strips on the outbound lanes.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontract Requirements, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections of the Special provisions: Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 Contractor's Responsibility For Utility Property and Services; Subsection 104.04 Maintenance of Traffic and Section 645-Traffic Control.
4. 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.
5. 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 tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
7. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
8. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to any culvert work or the various contract items and will not be paid for separately.
9. Earth swale shall be graded to drain. This work shall be considered incidental to various contract items.
10. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to asphalt concrete and will not be paid for separately.
11. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to bulk of work or the various contract items and will not be paid for separately.
12. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items.
13. All saw cutting work shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.
14. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
15. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at telephone no. 831-6712.
16. Striping plans included in the project are for reference only. The Contractor shall field verify existing pavement markings and replace all damaged/removed pavement markings to match existing. All edge striping (white and yellow) shall be 6" wide including dashed guide line at interchange ramps.
17. Traffic control plans shown in the Contract Documents are minimum requirements and do not constitute a complete traffic control plan. The Contractor shall provide any traffic control plan (not shown in the plans) that is needed to accomplish the work based on contractor's means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable Manual Uniform Traffic Control Devices (MUTCD) requirements. All lane closures or traffic pattern changes (detours) not shown on the plan shall be submitted to the Engineer for approval in accordance with Specifications Section 645 - Work Zone Traffic Control. For restrictions on lane closures, detours, construction work during peak hours, and other requirements regarding maintaining vehicular and pedestrian traffic, see Section 107.06 - Contractor Duty Regarding Public Convenience, and Section 645 - Work Zone Traffic Control. All traffic control related costs shall be included in the lump sum traffic control pay item and shall not be paid for separately.
18. Public notices and advertisements shall be incidental to lump sum traffic control item 645.0100 - Traffic Control, and shall not be paid for separately, unless otherwise directed by Engineer.
19. Submit requests for detours, ramp, and lane closures in accordance with Special Provisions Section 645. Refer to minimum timeframes required for implementation.
20. If the traffic control plan or any traffic control device is not installed per plan, specification, or is deemed unsafe, the Engineer reserves the right to shut down the work at no additional cost/time or withhold payment.
21. The Contractor shall provide for quality control of work. The Contractor shall submit copies of all measurements and test results to the Engineer. The Contractor shall submit quality inspection reports daily to the Engineer.
22. The contractor shall allow HDOT personnel access to all materials that will be used in the project for inspection and/or testing (this includes but is not limited to access to contractor or subcontractor's base yards, manufacturer yard, production plan, separate storage areas). The Engineer reserves the right to reject any material for which access or inspection is not allowed.

23. Work may be suspended due to non-compliance with any of the following, but not limited to, conditions:
  - a. Work or lane closures performed before or after permitted hours.
  - b. Failure to maintain roadway surfaces in a smooth and safe condition.
  - c. Failure to clean up construction debris generated from project work.
  - d. Failure to provide proper traffic control.
  - e. Failure to replace damaged pavement markings and signs.
  - f. Failure to maintain highway lights and/or traffic signal systems.
  - g. Failure to maintain or install traffic control devices.
  - h. Failure to address public complaints to the satisfaction of the engineer.
  - i. Unauthorized lane closures.

Any suspension of work shall be at the Contractor's expense and at no additional cost to the State and no additional contract time will be added.

## LEGEND

	Existing Concrete
	Reconstruction Areas
	Resurfacing Limits
	Existing Electrical Line
	Existing Power Pole
	Existing 24" Drain Line
	Existing 30" Drain Line
	Existing 36" Drain Line
	Existing Grated Drop Inlet
	Existing Traffic Sign
	Existing Highway Lighting Standard
	Existing Highway Lighting Pullbox
	Existing Survey Monument
	Existing Storm Drain Manhole
	Existing Metal Guardrail

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>GENERAL NOTES AND LEGEND</b>	
HALEAKALA HIGHWAY RECONSTRUCTION	
NORTH FIREBREAK ROAD TO OLD HALEAKALA HIGHWAY	
FEDERAL AID PROJECT NO. NH-037-1(028)	
Scale: NONE	Date: June, 2022
SHEET No. 1 OF 2 SHEETS	

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NO POTENTIAL TO AFFECT HISTORIC PROPERTIES

1. This Project has been determined to have no potential to cause effects to historic properties. Therefore, the Contractor shall ensure the following:
  - a. No part of this project shall penetrate below the sub-base course of the roadway or disturb any subgrade soils.
    - i. In the event a pothole is found that is deeper than subgrade, repairs must be made without disturbing the soil. Use of geotextile fabric is encouraged. Make a note of the repairs and the GPS location so that reoccurring potholes may be addressed in a future project.
  - b. No signposts in this Project require new ground disturbance. Any signpost replacements shall be done in their existing locations.
  - c. Guardrail repairs shall be done within the existing right-of-way, shall not disturb previously undisturbed soils, and shall not penetrate below the sub-base course of the roadway.
  - d. Vegetation maintenance shall be limited to activities that do not penetrate the sub-base course of the roadway, or roadway shoulders.
  - e. No part of this Project, including staging, shall occur outside of the right-of-way, unless it is on a paved surface.
  - f. Staging areas must be within existing asphalt paving or previously graded areas.
  - g. Bridgework shall be limited to repaving activities only.
  - h. Any special conditions shall be documented in the general notes.

In the event of any conflict between this section and any other sections, plans, and or specifications of the Project, this section shall prevail.

ENDANGERED SPECIES ACT SECTION 7 NOTES

1. All work lights shall be shielded so the bulb can only be seen from below bulb height and only used when construction is occurring in the area illuminated by the light.
2. On all islands, except Oahu, nighttime construction shall not occur during the seabird fledging period, September 15 through December 15.
3. Above-ground utilites shall not be moved or realigned.
4. Highway lighting shall not be installed or replaced.
5. Woody plants greater than 15 feet tall shall not be disturbed, removed, or trimmed during the Hawaiian hoary bat birthing and pup rearing season, June 1 through September 15.
6. Projects must be restricted to areas immediately adjacent to paved surfaces, impacts to the Blackburn's sphinx moth from the covered actions including potential vegetation removal will be insignificant or discountable.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
DATE	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES AND LEGEND**

HALEAKALA HIGHWAY RECONSTRUCTION  
NORTH FIREBREAK ROAD TO  
OLD HALEAKALA HIGHWAY  
FEDERAL AID PROJECT NO. NH-037-1(028)

Scale: NONE Date: June, 2022

SHEET No. 2 OF 2 SHEETS