

GENERAL NOTES

1.

The scope of work for this project consists of cold planing, resurfacing, and reconstruction of weakened pavement areas.
2.

The Contractor is reminded of the requirements of Subsection 105.16 - Subletting of Contract, 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: Subsection 704.11 - Utilities and Services; Subsection 707.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone 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 shall 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.

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.
10.

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.
11.

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
12.

All saw cutting work shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.

13.

The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for separately.
14.

The Contractor shall provide and maintain a temporary pedestrian safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved with at least an inch of Asphalt Concrete Pavement, Mix No V or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for separately.
15.

Provide smooth transition where new sidewalk construction meets the existing grade or sidewalk. Transition shall not be steeper than 2% cross and longitudinal slopes and not less than 6.0 feet long or as specified on the plans. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for separately
16.

The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
17.

The Contractor shall preserve all existing striping by locating them with survey nails at the begin and end of each type of striping, including 50' intervals along curves and 100' intervals along tangents. The location of the installed survey nails shall be within 0.5 inch of where the existing striping was located. Striping includes but is not limited to the following: centerline, lane lines, stop bars, yield lines, crosswalks, medians, words, and arrows. This work shall be incidental to the various contract items.
18.

Reconstructing and/or adjustment of centerline and reference survey monuments shall be incidental to the various contract items.

NATIONAL HISTORIC PRESERVATION ACT SECTION 106 NOTES

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 subbase 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 recurring 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 existing 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.

h.

Site 50-10-12-30924, located near mile post 9.95, is a modified depression of unknown function constructed during the historic period that lies outside of the APE of this project. Contractor shall not stage near the site.

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0190(019)	2022	3	15

ENDANGERED SPECIES ACT SECTION 7 NOTES

1.

Hawaiian Seabirds
To avoid or minimize effects to Hawaiian seabirds, the following conservation measures will be incorporated into each project where applicable:

a.

Fully shield all outdoor lights so the bulb can only be seen from below bulb height and only use when necessary.

b.

Install automatic motion sensor switches and timer controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area.

c.

Avoid nighttime construction during the seabird fledging period, September 15 to December 15 on all islands. If nighttime work cannot be avoided during that time, this PIC cannot be used, and a separate consultation is needed.

d.

Where fences extend above vegetation, integrate durable scare tape or bird deterrent into the fence to increase visibility and minimize fence strikes.

e.

For power lines and other cables, minimize exposure above vegetation height and vertical profile.

If the project includes a tower or antennae, then the following conservation measures will be incorporated into each project:

f.

The profile of the tower shall be as small as possible, minimizing the extent of the tower that protrudes above the surrounding vegetation layer, use of guy-wires will be avoided.

g.

If the top of the tower must be lit to comply with Federal Aviation Administration regulations, use a flashing red light versus a steady-beam red or white light.

h.

If possible, co-locate with existing towers or facilities.
2.

Hawaiian Hoary Bat
To avoid or minimize effects to the Hawaiian Hoary Bat the following conservation measures will be incorporated into each project where applicable:

a.

No barbed wire will be used for fencing.

b.

No woody plants taller than 15 feet will be trimmed, removed, or disturbed during the Hawaiian hoary bat birthing and pup rearing season (June 1 to September 15).
3.

Blackburn's Sphinx Moth
To avoid or minimize effects to the Blackburn's Sphinx Moth the following conservation measures will be incorporated into each project where applicable:

a.

A biologist familiar with the species will survey areas of proposed activities for Blackburn's sphinx moth and its larval host plants prior to project initiation.

b.

Surveys will be conducted during the wettest portion of the year (November 1 to April 30, or several weeks after a significant rain) and within 4 to 6 weeks prior to construction.

c.

Surveys will include searches for eggs, larvae, and signs of larval feeding (chewed stems, frass, or leaf damage).

d.

If the Blackburn's sphinx moth or the native aiea or tree tobacco over 3 feet tall are found during the survey, a separate consultation is needed, and this PIC will not be used.

ORIGINAL PLAN	NOTE BOOK	No.	DATE	SURVEY PLOTTED BY	_____
				DRAWN BY	_____
				DESIGNED BY	_____
				CHECKED BY	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

MAMALAHOA HIGHWAY RESURFACING

MILE POST 9.74 TO MILE POST 12.28

Federal Aid Project No. STP-0190(019)

Date: MAY, 2022

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0190(019)	2022	4	15

ENDANGERED SPECIES ACT SECTION 7 NOTES (Cont.)

If no Blackburn's sphinx moth, aiea, or tree tobacco are found during pre-construction surveys, it is imperative that measures be taken to avoid attraction of Blackburn's sphinx moth to the project location and prohibit tree tobacco from entering the site. Tree tobacco can grow greater than 3 feet tall in approximately 6 weeks. If it grows over 3 feet, the plants may become a host plant for Blackburn's sphinx moth. We therefore recommend that you:

- e. Remove any tree tobacco less than 3 feet tall.
- f. Monitor the site every 4-6 weeks for new tree tobacco growth before, during and after the proposed ground-disturbing activity.
- g. Monitoring for tree tobacco can be completed by any staff, information on different life stages of tree tobacco will be provided to monitor.

4. Hawaiian Stilt

To avoid or minimize potential effects to the Hawaiian stilt, the following conservation measures will be incorporated into each project where applicable (within or adjacent to aquatic environments):

- a. In areas where waterbirds are known to be present, post and implement reduced speed limits, and inform project personnel and contractors about the presence of endangered species on-site or nearby.
- b. If water resources are located within or adjacent to the project site, incorporate the applicable best management practices (BMPs) regarding work in aquatic environments into the project design (see below).
- c. Have a biological monitor that is familiar with the species' biology conduct Hawaiian stilt nest surveys where appropriate habitat occurs within the vicinity of the proposed project site prior to project initiation. Repeat surveys again within 3 days of project initiation and after any subsequent delay of work of 3 or more days (during which the birds may attempt to nest).

If a nest or active brood is found:

- d. Contact the Service within 24 hours for further guidance.
- e. Establish and maintain a 100-foot buffer around all active nests or broods until the chicks have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.
- f. Have a biological monitor that is familiar with the species' biology present on the project site during all construction or earth moving activities until the chicks fledge to ensure that Hawaiian stilts and nests are not adversely affected.

5. BMPs Regarding Work in Aquatic Environments

To avoid or minimize impacts to fish and wildlife resources, the following conservation measures will be incorporated into each project where work may affect aquatic environments:

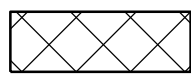
- a. Authorized dredging or filling-related activities that may result in the temporary or permanent loss of aquatic habitats will be designed to avoid indirect, negative impacts to aquatic habitats beyond the planned project area.
- b. Dredging or filling in the marine environment should be scheduled to avoid coral spawning and recruitment periods, and sea turtle nesting and hatching periods. Because these periods are variable throughout the Pacific islands, the relevant local, state, or federal fish and wildlife resource agency will be contacted for site specific guidance.

- c. Turbidity and siltation from project-related work will be minimized and contained within the project area by silt containment devices and curtailing work during flooding or adverse tidal and weather conditions. BMPs will be maintained for the life of the construction period until turbidity and siltation within the project area is stabilized. All project construction-related debris and sediment containment devices will be removed and disposed of at an approved site.
- d. All project construction-related materials and equipment (dredges, vessels, backhoes, silt curtains, etc.) to be placed in an aquatic environment will be inspected for pollutants including, but not limited to; marine fouling organisms, grease, oil, etc., and cleaned to remove pollutants prior to use. Project related activities will not result in any debris disposal, non-native species introductions, or attraction of non-native pests to the affected or adjacent aquatic or terrestrial habitats. Implementing both a litter-control plan and a Hazard Analysis and Critical Control Point plan (HACCP - see <https://www.fws.gov/policy/AI750fwl.html>) can help to prevent attraction and introduction of non-native species.
- e. Project construction-related materials (fill, revetment rock, pipe, etc.) should not be stockpiled in, or in close proximity to aquatic habitats and should be protected from erosion (e.g., with filter fabric, etc.), to prevent materials from being carried into waters by wind, rain, or high surf.
- f. Fueling of project-related vehicles and equipment will take place away from the aquatic environment and a contingency plan to control petroleum products accidentally spilled during the project will be developed. The plan will be retained on site with the person responsible for compliance with the plan. Absorbent pads and containment booms will be stored on-site to facilitate the clean-up of accidental petroleum releases.
- g. All deliberately exposed soil or under-layer materials used in the project near water will be protected from erosion and stabilized as soon as possible with geotextile, filter fabric or native or non-invasive vegetation matting, hydro-seeding, etc.

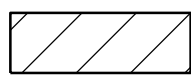
6. General Conservation Measures

To avoid or minimize potential effects to listed species, the following conservation measures will be incorporated into each project where applicable:

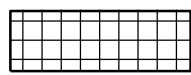
- a. Above ground utility replacements will utilize existing footprint.
- b. Installation of new above ground utilities must not increase effects to any ESA-listed species.



Reconstruction Areas



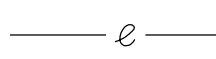
Leveling Areas



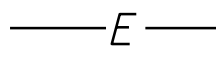
Cold Planing Areas



Resurfacing Limits



Existing Electrical Line



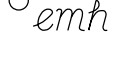
New Electrical Line



Existing Joint Pole



Existing Power Pole



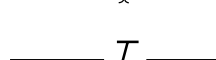
Existing Electric Manhole



Adjusted Elec. MH Frame/Cover



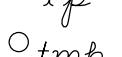
New Electric Manhole



Existing Telephone Line



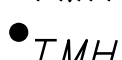
New Telephone Line



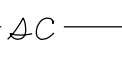
Existing Telephone Pole



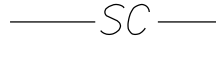
Existing Telephone Manhole



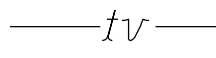
Adjusted Tele. MH Frame/Cover



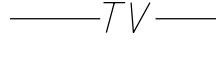
New Telephone Manhole



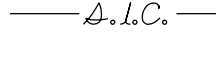
Existing Signal Corps Line



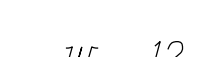
New Signal Corps Line



Existing TV Cable



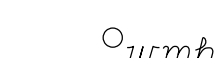
New TV Cable



Existing Sandwich Isles Communication Line



Existing 12" Water Line



New 12" Water Line



Existing Water Manhole



Adjusted Water MH Frame/Cover



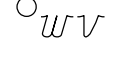
New Water Manhole



Existing Water Air Valve



Adjusted Water Air Valve



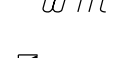
New Water Air Valve



Existing Water Valve Box



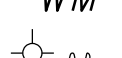
Adjusted Water Valve Box



New Water Valve Box



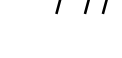
Existing Water Meter



Adjusted Water Meter



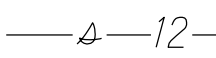
New Water Meter



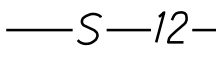
Existing Fire Hydrant



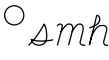
New Fire Hydrant



Existing Sewer Line



New 12" Sewer Line



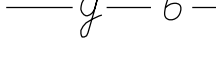
Existing Sewer Manhole



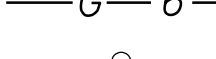
Adjusted Sewer MH Frame/Cover



New Sewer Manhole



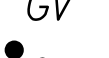
Existing 6" Gas Line



New 6" Gas Line



Existing Gas Valve Box



Adjusted Gas Valve Box



New Gas Valve Box



Existing Gas Manhole



Adjusted Gas MH Frame/Cover



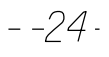
New Gas Manhole



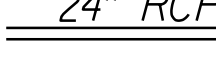
Existing Monument



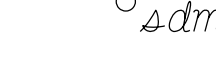
Adjusted Monument



New Monument



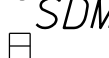
Existing 24" Drain Line



New 24 " RCP Drain Line



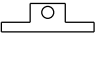
Existing Storm Drain Manhole



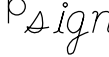
Adjusted Storm Drain MH Frame/Cover



New Storm Drain Manhole



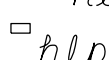
Existing Grated Drop Inlet



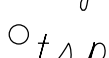
Existing Catch Basin



Existing Traffic Sign



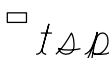
Existing Highway Lighting Standard



Existing Highway Lighting Pullbox



Existing Traffic Signal Pole



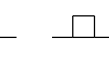
New Traffic Signal Pole



Existing Traffic Signal Pullbox



Adjusted Traffic Signal Pullbox



New Traffic Signal Pullbox



Existing Metal Guardrail



New Metal Guardrail

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

MAMALAHOA HIGHWAY RESURFACING
MILE POST 9.74 TO MILE POST 12.28
Federal Aid Project No. STP-0190(019)

Date: MAY, 2022

SHEET No. 2 OF 2 SHEETS