## <u>GENERAL NOTES:</u>

- 1. The scope of work for this project includes the filling under the abutments and wingwalls of Nailiilihaele Strea on Hana Highway; Work includes erosion control measure controls and scour void filling via grout injection into g
- 2. The Contractor is reminded that the clearing of debris stream shall be done by hand. The Placement of machine the stream is prohibited based upon the current permit and approvals. The use of the sand bags within the stre isolate work areas is prohibited. Any deviation in debris methods shall require coordination and approval by the
- 3. The Contractor is reminded of the requirements of Subs - Subcontracts which requires him to perform work amo not less than 30 percent of the total contract cost less items. Non-Compliance with this Subsection may be grou rejection of bid.
- 4. The Contractor's attention is directed to the following Sector the Standard Specifications and the Special Provisions: 104.09 - Maintenance of Traffic; Subsection 104.11 - Utilit Services; Subsection 105.09 - Coordination Between the C Subsection 107.06 - Contractor Duty Regarding Public Co. Subsection 107.12 - Protection of Persons and Property; a 645 - Work Zone Traffic Control.
- 5. The existence and location of underground utilities, man monuments and structures as shown on the plans are fr latest available data but the accuracy is not guaranteed. encountering of other obstacles during the course of wo possible. The Contractor shall be held liable for any da incurred to the existing facilities and/or improvements of his operations.
- 6. All existing utilities, whether or not shown on the plans, protected at all times by the Contractor during construct specified on the plans to be abandoned. All existing util poles, overhead utilities and guy poles/wires shall remai and operational. The Contractor shall be held liable for damages incurred to the existing utilities as a result of operations. All damaged portions shall be replaced in ad with the standards and specifications of the affected un company at no cost to the State. No delays or extension contract time will be allowed as a result of these requir
- 7. The Contractor shall indentify and be solely responsible protection of adjacent properties, utilities, and existing from damages due to construction. Repairing any damage at the Contractor's own expense, to the satisfaction of t
- 8. Existing drainage system shall be kept functional at all during construction. The Contractor shall furnish mater equipment, labor, tools and incidentals necessary to main This work shall be considered incidental to the various items.
- 9. Existing facilities and/or pavement to remain which has damaged by the Contractor shall be restored to its original condition at no cost to the State.
- 10. All graded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specifications Section 641 - Hydro-Mulch Seeding. This work is considered incidental to the various contract items.

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ORIGINAL PLAN		NOTE BOOK		Z.	

	<u>GE</u>	ENERAL NOTES, CON'T:	<u>ABBR</u>
of voids am Bridge es, traffic	11.	Cost for clearing of vegetation for access shall be considered incidental to the various contract items.	Az ₿
within the ery within coordination eam to	12.	Contractor shall use Hawaii-licensed Surveyors to stake right-of-way boundaries. Use survey monuments, stake boundary corners and every 500 feet of boundary. Engineer will not pay separately for surveying and will consider the cost as incidental in the contract cost for the various contract pay items.	BVC BMP C CRM
removal Engineer. Section 105.16 Sounting to deductible Inds for	13.	No material and/or equipment shall be stockpiled or otherwise stored within the State right-of-way except at locations designated 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 State right-of-way from the State Highways Division at telephone no. 808-873-3535.	d Elev. EP ep ES
ections of Subsection	14.	Any work specified in the contract documents, but not listed separately in the Proposal Schedule, shall be considered incidental to the various contract items and shall not be paid for separately.	es EVC Exist.
ties and Contractors; Invenience; and Section	15.	To Avoid and Minimize Potential Project Impacts To The Hawaiian Hoary Bat Do Not Disturb, Remove or Trim Woddy Plants Greater Than 15 Feet Tall During The Bat Birthing And Pup Rearing Season Between June 1 And September 15.	ga GRP HMA Lc
holes, rom the . The ork is amages as a result	16.	If Nene Are Observed Within The Projects Area, Do Not Approach, Feed or Disturb The Birds. Notify The Engineer Of Any Sightings. A Biologist Familiar With The Nesting Behavior Of Nene Shall Survey For Nests Are Found Within 150 Feet Of The Construction Area, Work Shall Cease Immediately And The Engineer Shall Notify The US Fish And Wildlife Service.	Lt. M.L. o.c. o/s OHWM PC
shall be tion unless lity/light in in place any f his ccordance tility ns of red repairs.	17.	If A Nest or Active Brood Of Hawaiian Waterbirds is Found, Notify The Engineer Immediately. The Engineer Shall Contact The US Fish And Wildlife Service Within 48 Hours For Further Guidance. A 100 Foot Buffer Shall Be Established Around The Nesting Area. A Biologist Familiar With The Species Shall Be Present During Construction Until Any Chicks/Ducklings Fledge To Ensure That There Are No Adverse Impacts.	PCC PIVC PP PT R Rt. R/W
for the structures ge shall be he Engineer.			S Sta. T
times rials, ntain flow. contract			TW V.C.
s been inal			

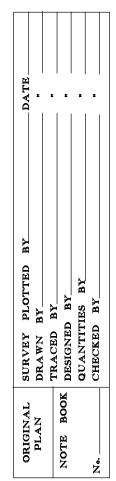
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-24(007)	2023	3	23

## <u>REVIATIONS:</u>

Azimuth Baseline Begin Vertical Curve Best Management Practices Chord Cement Rubble Masonry existing drainline Elevation New Edge of Pavement Existing Edge of Pavement New Edge of Shoulder Existing Edge of Shoulder End Vertical Curve Existing Guy Anchor Grouted Rubble Paving Hot Mix Asphalt Length of Curve Left of B Matchline on center Offset Ordinary High Water mark Point of Curvature Point of Compound Curvature Point of Intersection Vertical Curve Power Pole Point of Tangency Radius Right of B Right-of-Way Slope Station along B Tangent Top Wall Elevation Vertical Curve

H D. AND H LICENSED PROFESSIONAL ENGINEER No. 10377-C H WAII, U.S. THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>GENERAL NOTES</u> <u>AND ABBREVIATIONS</u> <u>NAILIILIHAELE STR. BR. EMERGENCY REPAIRS</u> <u>ROUTE 360, MILE POST 6.2</u>
Gund Ann 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE	Fed. Aid Proj. No. ER-24(007) Scale: None Date: Jan. 2023
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<u>N0</u>	TES FOR CONSTRUC	CTION WITHIN STATE RIGHT-OF-WAY:	NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY, CON'T:
1.	Highways from the Palapala Drive, Kah	ll obtain a Permit to Perform Work upon State State Highways' District Engineer, at 650 Jului, Hawaii, prior to commencement of work Highway Right-of-Way.	<ol> <li>The Contractor shall inform the State Highways' Permit Office (873-3535) at least two (2) days prior to closing any lanes.</li> <li>Driveways shall be kept open unless the owners of the properties</li> </ol>
2.	Construction and re the State's Right-of responsibility to the Hawaii Standard Sp dated 2005, and the	estoration of all existing highway facilities within F-Way, including the legal relations and e public, shall be in accordance with the current pecifications for Road and Bridge Construction e Specifications for Installation of Miscellaneous n State Highways, of the State Highways	using these rights-of-way are otherwise provided for satisfactory. 13. Where pedestrian walkways exist, they shall be maintained in a safe and passable condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be approved. All walkways shall conform to ADA requirements.
3.	Work may be perfor	rmed only between the hours of 8:30 a.m. and brough Friday, except holidays, unless otherwise strict Engineer.	14. The Contractor shall reference, to the satisfaction of the District Engineer, all existing traffic signs, posts and pavement markings prior to commencement of construction. The Contractor shall replace or repair all traffic signs, posts, and pavement markings disturbed by his activities, at his expense, unless directed
4.	signs, lights, flares, facilities, and shall protection, convenier protective facilities the "Administrative Control Devices at N	II provide, install and maintain all necessary s, barricades, markers, cones, and other protective take all necessary precautions for the nce, and safety of public traffic. All such and precautions to be taken shall conform with Rules of Hawaii Governing the Use of Traffic Work Sites on or Adjacent to Public Streets and by the Director of Transportation, and the	otherwise by the District Engineer or his representative. 15. The Contractor shall exercise care when performing work in, on or adjacent to the State's Highway right-of-way. Damages to existing facilities shall be immediately reported to the respective utility companies, and/or County or State agencies. The repair work shall be done at the Contractor's expense.
	current U.S. Federa Traffic Control Dev Traffic Controls fo	Al Highway Administration "Manual on Uniform vices, Part VI - Standards and Guides for or Street and Highway Construction, Maintenance, Management Operations".	<ol> <li>The Contractor shall implement Best Management Practices (BMP) measures for all work within the State Highway.</li> <li>The Contractor shall notify the State Highway's Maintenance Engineer (873-3535), three (3) working days prior to commencing</li> </ol>
5.	incorporated in Sec be approved by the	conform to the traffic control plans tion 645 and these construction plans and must Division prior to the issuance of the permit. equipment shall be stockpiled or otherwise	18. The permit to perform work upon State Highways may be revoked because of default in any of the following, but not limited to conditions:
	stored within the S designated in writin	State's Highway Right-of-Way except at locations ng and approved by the District Engineer.	a. Work performed before or after permitted hours.
6.	specifications for in State Highways, as	nall be taken in accordance with the Installation of miscellaneous improvements within follows:	b. Failure to maintain roadway surfaces in a smooth and safe condition. c. Failure to clean up construction debris generated from project
	a. Subbase: b. Base course:	one (1) compaction test per lift per 200 linear feet of roadway one (1) compaction test per lift per 200 linear	work. d. Failure to provide proper traffic control.
		feet of roadway ion test per lift per 300 linear feet of trench.	e. Failure to replace damaged pavement markings and signs. 19. After completion of the project, the Owner and/or Contractor, shall
		est results shall be submitted to the District	submit the complete set of "as-built" plans to the Highways Division.
7.	Ū	systems shall be functional at all times.	
8.	highway improvemen	ll exercise care to minimize damages to existing nts. All damages shall be repaired by the expense, to the statisfaction of the District	
9.	period of one (1) yea the applicant. In the this one-year period	mit construction plans shall be valid for a ar from the date of notification of approval to he event construction does not commence within d, the applicant will be required to resubmit the for the Division's review and reapproval.	
10.		e, and construction signs and barricades shall ty reflective background.	



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LIC HEALTH, SAFETY AND CONVENIENCE NOTES:

The Contractor shall observe and comply with all Federal, State, and Local laws required for the protection of public health and safety and environmental quality.

The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the air pollution standards and regulations of the State Department of Health. The County may require supplementary measures as necessary.

The Contractor's attention is directed to Chapter 46, Public Health Regulations, Department of Health, State of Hawaii, "Community Noise Control" in which maximum allowable noise levels have been set. If the construction activities for this project will exceed the allowable noise levels, the Contractor will be required to obtain a permit from the Director of the Department of Health. The Contractor shall obtain a copy of Chapter 448 and become familiar with the noise level restrictions and the procedures for obtaining a Permit for construction activities Permit for construction activities.

The Contractor is to comply with the directions of the State of Hawaii Occupation Safety and Health Law (DOSH).

## TORICAL PRESERVATION NOTES:

Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find, and the find shall be protected from further damage. The Contractor shall cordon off the area and immediately notify the State Historic Preservation Division at (808) 692-8015, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary. In addition, if human burial are found, the Contractor shall immediately notify the County of Maui Police Department.

LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<ul> <li>★ ENGINEER</li> <li>★ No. 10377-C</li> </ul>	<u>GENERAL NOTES</u>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Cump Ann 04/30/24	<u>NAILIILIHAELE STR. BR. EMERGENCY REPAIRS</u> <u>ROUTE 360, MILE POST 6.2</u> <u>Fed. Aid Proj. No. ER-24(007)</u>
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	FISH AND WILDLIFE GENERAL NOTES The contractor shall comply to the following measures to minimize project impacts to threatened and endangered a
	including bats, birds, turtles, and invertebrates, in Hawai Pacific Islands as described below.
<u>HA</u>	WAIIAN HOARY BAT
1.	Do not disturb, remove, or trim woody plants greater that tall during the bat birthing and pup rearing season (Jun September 15).
2.	Do not use barbed wire for fencing.
<u>HA</u>	WAIIAN SEABIRDS
1.	Fully shield all outdoor lights so the bulb can only be se below bulb height and only use when necessary.
2.	Install automatic motion sensor switches and timer contro outdoor lights or turn off lights when human activity is occurring in the lighted area.
3.	Avoid nighttime construction during the seabird fledging September 15 through December 15.
<u> </u>	WAIIAN WATERBIRDS
If	a Hawaiian Waterbird nest or active brood is found in the
1.	Immediately notify the Engineer who will coordinate with USFWS Pacific Island Fish and Wildlife Office for furth guidance.
2.	Establish and maintain a 100-foot (ft) buffer around all and/or broods until the chicks/ducklings have fledged. L conduct potentially disruptive activities or habitat alteration this buffer.

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ORIGINAL	PLAN		NOTE BOOK		N	

## <u>HAWAIIAN GOOSE OR NENE</u>

s to avoid or	1.	Do not approach, feed, or disturb Hawaiian Geese.					
ed animals, awaii and the than 15 feet June 1 through	2.	If Hawaiian geese are observed loafing or foraging within the project area during the breeding season (September through April), halt work and have a biologist familiar with the nesting behavior of Hawaiian geese survey for nests in and around the project area prior to the resumption of any work. Repeat surveys after any subsequent delay of work of 3 or more days (during which the birds may attempt to nest).					
eane i nn eagn	3.	Cease all work immediately and contact the USFWS Pacific Island Fish and Wildlife Office for further guidance if a nest is discovered within a radius of 150 ft of proposed work, or a previously undiscovered nest if found within said radius after work begins.					
e seen from	4.	In areas where Hawaiian geese 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.					
ontrols on all is not	5.	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/ducklings fledge to ensure that Hawaiian waterbirds and pacts are not adversaly impacted.					
ing period,	waterbirds and nests are not adversely impacted. <u>PACIFIC HAWAIIAN DAMSELFLY</u>						
n the action area: with contact	1.	Turbidity and siltation from project-related work shall be minimized and contained within the vicinity of the site through the appropriate use of effective silt containment devices and the curtailment of work during adverse tidal and weather conditions.					
further	2.	All project-related materials and equipment (dredges, barges, backhoes, etc.) to be placed in the water shall be cleaned of pollutants prior to use.					
all active nests ed. Do not eration within	3.	No project-related materials (fill, revetment rock, pipe etc.) should be stockpiled in the water (intertidal zones, reef flats, stream channels, wetlands, etc.) or on each habitats.					
	4.	All debris removed from the marine/aquatic environment shall be disposed of at an approved upland or ocean dumping site.					
	5.	No contamination (trash or debris disposal, non-native species introduction, attraction of non-native pests, etc.) of adjacent habitats (reef flats, channels, open-ocean, stream channels, wetlands, beaches, forests, etc.) shall result from project-related activities. This shall be accomplished by implementing a litter-control plan and developing a Hazard Analysis and Critical Control Point Plan (https://www.fws.gov/policy/A1750fw1.html) to prevent attraction and introduction of non-native species.					

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	STATE OF HAWAI'I
D D. AND	DEPARTMENT OF TRANSPORTATION
LICENSED PROFESSIONAL	HIGHWAYS DIVISION
★ ENGINEER ★ No. 10377-C	<u>GENERAL NOTES</u>
AMAII, U.S.P.	
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