

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(072)	2024	3	85

GENERAL NOTES:

- The project is the construction of seismic retrofit improvements for Kaholo Stream Bridge at Mile Post 30.9 of Hawaii Belt Road. The project includes the removal of existing vegetation, guardrails, and trees; construction of temporary access roads; construction of structural improvements including bearing pads, soil nails and micropiles; installation of guardrail; pavement markings and signs; erosion control; and traffic control.
- Subsection 105.16(A) - Subcontract Requirements requires the Contractor to perform work amounting to not less than 30 percent of the total contract cost less deductible items.
- The Contractor's attention is directed to the following Sections of the Standard Specifications and the Special Provisions: Subsection 104.09 - Maintenance of Traffic; Subsection 105.09 - Coordination Between the Contractors; Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 107.12 - Protection of Persons and Property; and Section 645 - Work Zone Traffic Control.
- The Contractor's attention is directed to the terms and conditions of all Right of Entry Agreements associated with construction parcels C1 through C3, including requirements for insurance coverage, submissions of notifications, status reports and site maintenance/restoration requirements as required by property owners. The cost for compliance with the requirements of any Right of Entry Agreements shall be considered incidental to the 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 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.
- All existing utilities, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. All existing utility/light poles, overhead utilities and guy poles/wires shall remain in place and operational. The Contractor shall be held liable for any damages incurred to the existing utilities as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at no cost to the State. No delays or extensions of contract time will be allowed as a result of these required repairs.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- 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.
- The existing drainage system shall be kept functional at all times during construction. Furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.

GENERAL NOTES, CONT':

- Smooth riding connections shall be constructed at all limits of the project, including the beginning and end of project, connecting approaches, side streets, walkways, and driveways as shown on the plans and/or as ordered by the Engineer.
- All saw cutting work including vacuuming of slurry seal shall be considered incidental to the various contract items.
- Maintain existing pedestrian walkways in a safe and passable condition, or provide other walkway facilities for pedestrians to maintain access. Passages between walkways at intersections shall likewise be provided at all times.
- Driveways shall be kept open unless owners of the abutting lots using these right of ways are otherwise provided for satisfactorily.
- No material or equipment shall be stockpiled or otherwise stored within highway right-of-way except at locations shown on the plans or designated in writing and approved by the Engineer.
- Contact Hawaiian Telcom Outside Plant Engineering Section, a minimum of 72 hours in advance, prior to start of excavation, to locate existing Hawaiian Telcom facilities.
- When trench excavation is adjacent to existing structures or facilities, the Contractor is responsible for properly sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave-ins, and settlement. Provide beams, struts, or underpinning as necessary. This work shall be considered incidental to various contract items.
- Work required to complete the project but not itemized specifically in the proposal shall be considered incidental to the various contract items and shall not be paid for separately.  
  
All azimuths and coordinates are referred to NAD83 Hawaii State Plane.
- 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 shall be considered incidental to the various contract items.
- The Contractor shall comply with the directives of the State of Hawaii Occupational Safety and Health Law (DOSH). Any citation (fine) received by the State for noncompliance by the Contractor shall be deducted from the progress payment.
- For verifying the location of underground ductlines and for assistance in providing proper support and protection of underground ductlines, the Contractor is to contact Hawaiian Electric Co. Underground Division at 969-0311 a minimum of 72 hours in advance.
- The Contractor shall exercise extreme caution when the excavation and construction crosses or is in close proximity of underground telephone and signal cable facilities and shall maintain adequate clearance for his equipment while working close to and/or under overhead facilities. Any damages to the existing underground facilities shall be repaired and paid for by the Contractor.

GENERAL NOTES, CONT':

- Should field conditions and construction procedures require that utility poles be braced, the Contractor shall contact Hawaiian Telcom Outside Plant Engineering Section for pole bracing instructions a minimum of 72 hours in advance of actual required bracing.
- The Contractor shall survey and stake out the State Highway right-of-way and install all appurtenances associated with the project within the State right-of-way or construction parcels as shown in the plans.
- The term "Engineer for the Utility Companies" shall also mean his delegated Representative and/or the Utilities Inspectors of Record.  
  
The Contractor shall stake out all facilities for verification by the utility involved and/or affected.
- When excavating near utility poles, the Contractor shall protect, support, secure and take all other precautions to prevent damage to or leaning of these poles. The Contractor is responsible for all costs associated to repair and/or straighten pole.

PUBLIC 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 City may require supplementary measures as necessary.
- The Contractor's attention is directed to Hawaii Administrative Rules, Title 11, 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, a permit from the Director of the Department of Health is required. The Contractor shall obtain a copy of Chapter 46 and become familiar with the noise level restrictions and the procedures for compliance with the permit for construction activities. A copy of the permit will be provided by the Engineer.
- The Contractor is to comply with the directions of the State of Hawaii Occupation Safety and Health Law (DOSH).



SIGNATURE: *Gerald D. Andrade* 4/30/26  
EXPIRATION DATE OF THE LICENSE  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES

HAWAII BELT ROAD  
Seismic Retrofit of Kaholo Stream Bridge  
Fed. Aid Proj. No. BR-019-2(072)

Scale: None Date: Jul. 2024

SHEET No. G-1 OF 2 SHEETS

NOTES FOR PROTECTION OF ENDANGERED SPECIES:

1. HAWAIIAN SEABIRDS

No night time construction will be permitted during the seabird fledging period (September 15th through December 15th). The Contractor's attention is directed to Special Provision Section 107.18 - Avoidance and Minimization Measures for Endangered Species.

All outdoor lights shall be fully shielded and only visible from below the bulb height. Outdoor lights shall only be used when necessary and shall be turned off when activity is not occurring in the lighted area.
2. HAWAIIAN HOARY BAT ('Ope'ape'a)

No disturbing, clearing, grubbing, or trimming of woody plants greater than 15' tall shall be allowed during the Hawaiian Hoary Bat birthing and pup-rearing season (June 1st through September 15th).

The Contractor shall not use barbed wire fencing.
3. HAWAIIAN WATERBIRDS

In areas where waterbirds are known to be present, post and implement reduced speed limits and inform project personnel about the presence of endangered species on-site.

In areas where vegetated streambanks would be disturbed, waterbird nest searches shall be conducted by a qualified biologist before any work is conducted, 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:
  - Contact the Service (808) 861-8525 within 48 hours for further guidance.
  - Establish and maintain a 100-foot buffer around all active nests and/or broods until the chicks/ducklings have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.

4. A biological monitor that is familiar with the species' biology shall be present on the project site during all construction or earth moving activities until the chicks/ducklings fledge to ensure that Hawaiian waterbirds and nests are not adversely impacted.

5. Turbidity and siltation from project-related work should be minimized and contained within the project area by silt containment devices and curtailing work during flooding or adverse tidal and weather conditions. BMPs should 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 should be removed and disposed of at an approved site.

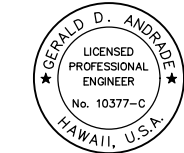
6. No project construction-related materials or equipment (dredges, vessels, backhoes, silt curtains, etc.) shall be placed in an aquatic environment. Project related activities should not result in any debris disposal, non-native species introductions, or attraction of non-native pests to the affected or adjacent aquatic or terrestrial habitats.

NOTES FOR PROTECTION OF ENDANGERED SPECIES (CONT):

7. 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.
8. Fueling of project-related vehicles and equipment should take place away from the aquatic environment and a contingency plan to control petroleum products accidentally spilled during the project should be developed. The plan should be retained on site with the person responsible for compliance with the plan. Absorbent pads and containment booms should be stored on-site to facilitate the clean-up of accidental petroleum releases.
9. All deliberately exposed soil or under-layer materials used in the project near water should be protected from erosion and stabilized as soon as possible with geotextile, filter fabric or native or non-invasive vegetation matting, hydro-seeding, etc.

ABBREVIATIONS:

AC	Asphalt Concrete	M.L.	Matchline
Approx.	Approximate	MB	Meter Box
ARV	Air Release Valve	Min.	Minimum
Aux.	Auxiliary	Mod.	Modified
Ⓔ	Baseline	MW	Monitoring Well
BFP	Back Flow Preventer	N	North
BMP	Best Management Practices	NTS	Not to Scale
Bot.	Bottom	No.	Number
BC	Bottom Curb	O/H	Overhead Electrical
BW	Bottom Wall	o/s	Offset
Ⓒ	Centerline	PBX	Panel Box/Pull Box
CLF	Chain Link Fence	PC/P.C.	Point of Curvature
C/Ch	Chord	PCC	Point of Compound Curvature
Clr	Clearance	PCCP	Portland Cement Concrete Pavement
Conc	Concrete	PI	Point of Intersection of Tangents
CRM	Concrete Rubble Masonry	PRC	Point of Reverse Curve
CY	Cubic Yard	PT/P.T.	Point of Tangency
D	Drain Line	Pav't/Pvmt	Pavement
DI	Drain Inlet	R	Radius
Dia.	Diameter	RPM	Raised Pavement Marker
E/Elec	Electrical	Ref.	Reflector
ES	Edge of Shoulder	Rd	Road
EP	Edge of Pavement	Rt.	Right
Elev	Elevation	R/W	Right-of-Way
Emb	Embankment	S	Sewer
Exc	Excavation	SMH	Sewer Manhole
Exist.	Existing	S.E.	Superelevation
FH	Fire Hydrant	SF	Square Feet
FM	Force Main	Sht	Sheet
GDI	Grated Drop Inlet	SDMH	Storm Drain Manhole
G	Ground	St	Street
GRP	Grouted Rubble Paving	SL	Street Light
GP	Guard Post	Sta.	Station
GW	Guy Wire	Std	Standard
HECo	Hawaiian Electric Company	T	Tangent
H	Height	Tel	Telephone
HWY	Highway	TC	Top Curb
HMA	Hot Mix Asphalt	TW	Top Wall
Inv.	Invert	Typ.	Typical
Kah	Kahekili Highway	U/G	Under Ground
Kam	Kamehameha Highway	UP	Utility Pole
L/Lc	Length of Curve	Var	Varies
LF	Linear Feet	W	Water
Lt	Left	WMH	Water Manhole
		WV	Water Valve



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GENERAL NOTES AND  
ABBREVIATIONS

HAWAII BELT ROAD  
Seismic Retrofit of Kaholo Stream Bridge  
Fed. Aid Proj. No. BR-019-2(072)

Scale: None Date: Jul. 2024

SHEET No. G-2 OF 2 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE BY	
REVIEWED BY	
APPROVED BY	
DATE	

DRAWING NAME: T: 30801030.00-KAHOLOSTREAMBRIDGE (CAAD) SHEETS GENERAL NOTES.02.DWG PLOT TIME: 07-16-24, 1:35 PM