

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	560A-03-96	2009	3	27

- The scope of work for this project includes removing existing CRM walls, wooden guardrails and pavement structural section; installing new modular concrete retaining walls, textured concrete railings, and metal guardrails; constructing new pavement structural section; and removing and installing pavement markings.
- The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts which requires him to perform work amounting 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.
- The Contractor's attention is directed to the following sections of the Standard Specifications: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
- 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 is notified of the existence of weight-posted one-lane bridges along Kuniu Highway (Route 560). Current weight limits are 15 tons at Hanalei Bridge and 8 tons for 3 bridges between Hanalei and the project site. Prior to crossing these bridges, the Contractor shall apply for an oversize/overweight/vehicle/load permit for each affected vehicle, equipment, and/or load at the State Highways Division office (ph. 241-3000). The State reserves the right to disallow crossing of these bridges by loads exceeding the posted weight limits.
- The Contractor shall verify the locations and elevations of all existing utility lines and notify respective owners before commencing any excavation work. Contractor shall notify OneCall (ph. 811) for utility toning a minimum of 3 weeks prior to starting work.
- 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.
- The Contractor shall verify the presence of existing underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary. All costs associated with temporary relocations shall be borne by the Contractor.
- 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.
- Existing drainage system shall be kept 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 the various contract items.
- Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.

- 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.
- No material and/or equipment shall be stockpiled or otherwise stored within Highway Right-Of-Way except at locations designated in writing and approved by the Engineer.
- Contractor shall dispose or deliver any removed material to a location designated by the Engineer at no additional cost to the State.
- After the project is completed, except for the grading required in constructing the drainage and catchment ditches, the Contractor shall restore grades and groundcover within the project limits to a condition equal or better than the existing condition prior to construction.
- Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the contractor shall immediately suspend work and notify the State Department of Land and Natural Resources - Historic Preservation Division (ph. 652-1510 or 808-692-8015), and Kauai Police Department (ph. 241-1711).
- The project site is traversed by one endangered endemic bird, the Hawaiian Petrel, and one threatened endemic bird, the Newell's Shearwater. To reduce the possibility that these nocturnally flying birds may become disoriented and downed by construction lighting, nighttime construction will be allowed between January and July only and prohibited between mid-August to mid-December.
- Prior to approval of nighttime construction work, the Contractor shall submit for the Engineer's acceptance a Seabird Response Plan, which includes:
  - Response plan for circling/downed birds when lights may be turned off temporarily if it is safe for workers and if birds are circling lights.
  - Seabird awareness training for staff (this should be verified on their personnel file).
  - A list of qualified bird rescue contact(s) such as the Save Our Shearwaters program (SOS), a local vet or rehabilitation center, or Hawaii Division of Forestry and Wildlife (DOFAW) representative.
  - Maintaining a pet carrier on site at all times with instructions on how and where to keep recovered birds.
  - Logging seabird incidences that are submitted to the U.S. Fish and Wildlife Service and DOFAW within 48 hours of discovery.
- All workers within the State right-of-way who are exposed to either vehicles using the roadway to to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them within the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closres and obstructed roadways.
- 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.

- All existing pavement striping and raised pavement markers (i.e. double 4-inch yellow stripe, 4-inch white edge strip, Type D marker, etc.) in the vicinity of areas to be reconstructed, shall be carefully noted and a list provided to the Engineer prior to beginning pavement reconstruction operations. All pavement markings damaged or obliterated by the Contractor's operations (i.e. 4-inch white edge stripe, etc.) shall be replaced in kind with new striping and markers. For this project, thermoplastic extrusion only shall be acceptable for permanent striping. Temporary and permanent striping and raised pavement markers shall be installed in accordance with Section 629 of the "Hawaii Standard Specifications for Road and Bridge Construction, 2005". This work shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV and will not be paid for separately.

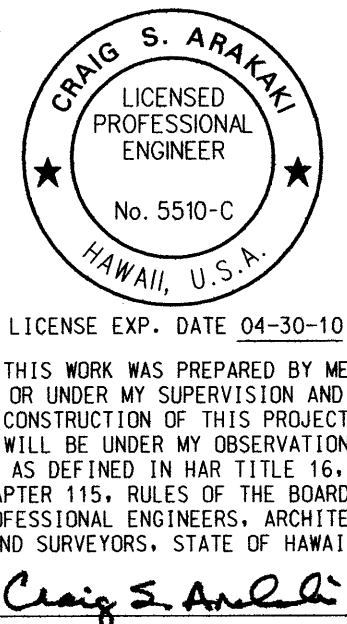
ABBREVIATIONS:

AC, AC, ac	Asphalt Concrete
AB	Aggregate Base
Ⓔ	Baseline
BMP	Best Management Practices
Ⓒ	Centerline
CRM	Concrete Rubble Masonry
Dia,	Diameter
e.g.	Existing Ground
E.P.	New Edge of Travel Way
e.p.	Existing Edge of Travel Way
E.S.	New Edge of Shoulder
e.s.	Existing Edge of Shoulder
Exist	Existing
Galv	Galvanized
L.E.	Limits of Easement
LF	Linear Feet
Lt.	Left of Ⓔ
Min.	Minimum
MP	Mile post
O/S	Offset
OC, o.c.	On Center
PC	Point of Curvature
PCC	Point of Compound Curve (for Alignment)
PI	Point on Intersection
POC	Point on Curvature
POT	Point on Tangent
PT	Point of Tangency
Pvmnt	Pavement
R	Radius
R/W	Right-of-Way
Rt.	Right of Ⓔ
ST. MON.	Street Monument
SS	Stainless Steel
Sta.	Station along Ⓔ
t	Exist. Telephone
Typ	Typical
w	Exist. Water
w/	With

LEGEND

	Existing Wooden Guardrail
	Existing Metal Guardrail
	New Guardrail
	Existing Power Pole
	Existing Guy Anchor
	Existing Reflector Post
	Existing CRM Wall
	CRM Wall/Riprap
	Existing CRM remnant
	Inclinometer
	Approximate Location of Previous Borings
	Approximate Location of Boring
	New Monument

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



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<b>GENERAL NOTES &amp; LEGEND</b>
<u>KUHIO HIGHWAY</u> <u>Retaining Walls At Lumahai And Wainiha</u> <u>Project No. 560A-03-96</u>
Scale: None Date: August 2009
SHEET No. 1 OF 1 SHEETS