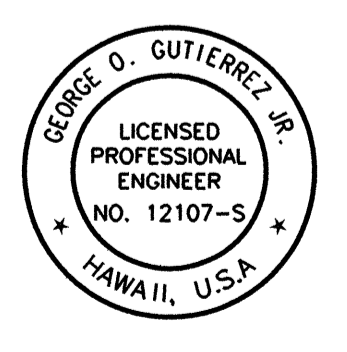


FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	3	82

GENERAL NOTES

1. The scope of work is to repair deteriorated steel bridge framing and connections, repair concrete cracks and spalls in concrete deck slab and abutments, in-kind replacement of steel bridge railings, repainting of steel bridge, and temporary traffic control.
2. Existing bridge is posted for 22 Tons.
3. The Contractor shall obtain necessary permits prior to start of work at his own cost and comply with State Law regarding, but not limited to noise.
4. The Contractor's attention is directed to the following Sections of the Standard Specifications: Subsection 104.11 Utilities and Services; Section 107 Legal Relations and Responsibility to Public; and Section 645 - Work Zone Traffic Control.
5. When performing work within the State Right-Of-Way, nearby, adjacent to, or on the travel way, the Contractor shall refer to Section 645 Work Zone "Traffic Control" of these specifications.
6. 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.
7. The Contractor shall utilize all appropriate methods, procedures and precautions necessary when performing concrete repair work.
8. The Contractor's attention is directed to Section 102.05 of the Standard Specifications. Prior to bidding, the Contractor is responsible for visiting and inspecting each site in order to ascertain site conditions; to properly gage the extent of concrete damage; to determine appropriate construction methods; to anticipate difficulties in the sequencing and lay out construction operations; and to prepare accurate material, labor, and cost estimates. Any claims for additional payment, based upon work difficulties that arise from failure of the Contractor to fully inspect the site or to closely read the available plans, shall be denied by the Engineer.
9. The Contractor shall carefully review the plans, specifications and proposal and notify the State within ten (10) working days before bid opening of any discrepancies between the plans and bid proposal. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
10. This project requires the implementation of a Best Management Practices (BMP) plan during all demolition and construction work to prevent and/or minimize environmental impacts during the construction activity. If foreign objects and/or materials accidentally fall into the reservoir, they shall be retrieved and disposed of at no cost to the State. The BMP plan shall address the use of dust and debris containment and catchment devices to prevent any foreign matter (e.g. construction materials, debris, dust, etc.) from falling into the reservoir from the bridge and to minimize fugitive dust.
11. Details shown on the drawings shall be typical for all similar conditions. Modify details for special conditions as directed by the Engineer.
12. Existing drainage systems shall remain functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
13. The Contractor shall verify the locations of all existing drainage structures in the field. Any existing drainage structures and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense, to the satisfaction of the Engineer.
14. Existing signs and plaques on or near bridge and construction staging area shall remain undamaged at all times during construction. Existing signs that are damaged during construction shall be repaired or replaced by the Contractor at his own expense, to the satisfaction of the Engineer.
15. The Contractor shall 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.
16. The Contractor shall provide and maintain for access to and from driveways, sidewalks, ADA access routes complying with 2010 ADAAG Section 206.1, and cross streets at all times. This work shall be considered incidental to the various contract items and will not be paid for separately.
17. Removal and disposal of all debris from construction activities shall be considered incidental to their respective bid items.
18. No materials and/or equipment shall be stockpiled or otherwise stored within the highway 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 for Occupancy and Use of State Right-Of-Way from the Highways Division, Oahu District Office.
19. The Contractor shall coordinate all work to ensure that the construction activities do not interfere with operations and security.
20. The Contractor shall use full water depth silt curtains to enclose the work area to control turbidity during all over-water work. If a plume is observed outside of the silt curtains that is caused by the construction activity, the Contractor shall stop the activity and take corrective action immediately. Work shall resume after correction has been made. This work shall be considered part of Best Management Practices (BMP) work.
21. No debris shall be allowed to enter the water. The Contractor shall provide a temporary platform or other suitable positive means of capturing debris from construction and demolition operations. These facilities shall be in place prior to starting demolition work. This work shall be considered part of Best Management Practices (BMP) work.
22. Wastewater from demolition work shall not be discharged into the reservoir. The Contractor shall capture all pollutants and dispose of them at recycling or disposal facilities permitted by the Department of Health. This work shall be considered part of Best Management Practices (BMP) work.
23. 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.
24. Should there be any conflict between Plans (Drawings), Special Provisions and Standard Specifications, the most stringent requirement shall govern. Any conflicts shall be reported immediately.
25. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and will not be paid for separately.
26. The Contractor will be responsible for regulatory fines or penalties that may be imposed by environmental regulatory agencies (EPA and/or State DOH) as a result of improper construction activities.
27. When working at night Contractor shall aim and adjust flood lights so that there is no glare to motorists and no dark areas. See Special Provisions, Section 633 for more information.
28. The Contractor shall coordinate the pruning or removal of any trees and foliage that interfere with existing bridge structure with the Engineer as needed. Any pruning or removal of trees shall be considered incidental and will not be paid for separately.

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
REVISIONS BY	_____
DATE	_____
ORIGINAL FILE	_____
NOTED	_____
NO.	_____

 <p>LICENSE EXPIRES: 4/30/16 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</p>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<p><b>GENERAL NOTES</b></p> <p><b>KAMEHAMEHA HIGHWAY</b>  <b>Repair and Repaint Karsten Thot Bridge</b>  <b>Federal Aid Project No. BR-080-1(012)</b></p> <p>Scale: No Scale      Date: Sept 2014</p>

EXISTING UTILITY NOTES

- A. The location of overhead facilities shown on drawings are from existing records with varying degrees of accuracy and are not guaranteed as shown. The Contractor shall verify in the field the locations of the facilities and shall exercise proper care when working in the area. The Contractor shall be responsible for any damages to facilities whether shown or not shown on the plans.
- B. The Contractor shall verify the location of all existing utility lines and notify the respective owner's before commencing work.
- C. The Contractor shall comply with the State of Hawaii's Occupational Safety and Health laws and regulations, including without limitation, those related to working on or near exposed or energized electrical lines and equipment.

HECO NOTES

- A. Existing HECO overhead lines are energized and will remain energized during construction unless prior special arrangements have been made with HECO. Only HECO personnel are to handle these energized lines and erect temporary guards to protect these lines from damage. The Contractor shall work cautiously at all times to avoid accidents and damage to existing HECO facilities, which can result in electrocution.
- B. State law (Osha 1910.269(k)(2b)) requires that a worker and the longest object he or she may contact cannot come closer than a minimum radial clearance of 10 feet when working close to or under any overhead lines rated 50KV and below. For each additional 10KV above 50KV, an additional 4 inches shall be added to the 10-foot clearance requirement. The preceding information on line clearance requirements is provided as a convenience and it is the Contractor's responsibility to be informed of and comply with any revisions or amendments to the law.

Should the Contractor anticipate that his work will result in the need to encroach within the minimum required clearance at any time, the Contractor shall notify HECO at least four (4) weeks prior to the planned encroachment so that, if feasible, the necessary protections (e.g. relocate or de-energize HECO lines) can be put in place. HECO may also be able to blanket its distribution (12KV and below) lines to provide a visual aid in preventing accidental contact. HECO's cost of safeguarding or identifying its lines will be charged to the Contractor.

Contact HECO's Customer Installations Department at 543-7846 for assistance in identifying and safeguarding overhead power lines. Refer to Section X of HECO's electric service installation manual for additional guidelines when working around HECO's facilities. A copy may be obtained from HECO's customer installations department.

- C. Any work required to relocate or modify HECO facilities shall be done by HECO, or by the Contractor under HECO's supervision. The Contractor shall be responsible for all coordination, and shall provide necessary support for HECO's work, which may include, but not be limited to permits and traffic control, barricading, and restoration of pavement, sidewalks, and other facilities.
- D. Any redesign or relocation of HECO's facilities not shown on the plans may be cause for lengthy delays. The Contractor acknowledges that HECO is not responsible for any delay or damage that may arise as a result of any conflicts discovered or identified with respect to the location or construction of HECO's electrical facilities in the field, regardless of whether the Contractor has met the requested minimum advance notices. In order to minimize any delay or impact arising from such conflicts, HECO should be notified immediately upon discovery or identification of such conflict.

- E. The Contractor shall be responsible for the protection of all HECO and other utility companies surface and subsurface utilities and shall be responsible for any damages to facilities as a result of his operations. The Contractor shall immediately report such damages to HECO's Trouble Dispatcher at 548-7961. Repair work shall be done by HECO or by the Contractor under HECO's supervision. Costs for damages to HECO's facilities shall be borne by the Contractor.

In case of damage or suspected damage to HECO's fuel pipeline, the Contractor shall immediately notify HECO's Honolulu Power Plant Shift Supervisor at 533-2102 (a 24-hour number) so HECO personnel can secure the damaged section and report any oil spills to the proper authorities. All costs associated with the damage, repair, and oil spill cleanup shall be borne by the Contractor.


- F. The Contractor may request HECO to provide an inspector to stand-by during construction near HECO's facilities. The cost of such inspection will be charged to the Contractor.

The Contractor shall call the HECO Construction and Maintenance Dept., Customer # System Superintendent at 543-4223 a minimum of 5 working days in advance to arrange for HECO stand-by personnel.

- G. The Contractor shall indemnify, defend and hold harmless HECO and other utility companies from and against all losses, damages, claims, and actions, including but not limited to reasonable attorney's fees and costs based upon or arising out of damage to property or injuries to persons, or other tortious acts caused or contributed to by Contractor or anyone acting under its direction or control or on its behalf; provided Contractor's indemnity shall not be applicable to any liability based upon the sole negligence of HECO or other utility company.
- H. All costs associated with any relocation or modification (either temporary or permanent) of existing utility lines or facilities for the convenience of the Contractor, or to enable the Contractor to perform work in a safe and expeditious manner in fulfilling contract obligations shall be borne by the Contractor and shall be considered incidental to the various contract items.

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HAWAII	HAW.	BR-080-1(012)	2014	4	82

DATE	_____
PLANNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
REVISIONS BY	_____
QUANTITIES BY	_____
RECORDED BY	_____
ORIGINAL PLAN	_____
NOTED BY	_____
NO.	_____



LICENSE EXPIRES: 4/30/16  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

*George D. Gutierrez*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**UTILITY AND HECO NOTES**

KAMEHAMEHA HIGHWAY  
Repair and Repaint Karsten Thor Bridge  
Federal Aid Project No. BR-080-1(012)

Scale: No Scale      Date: Sept 2014