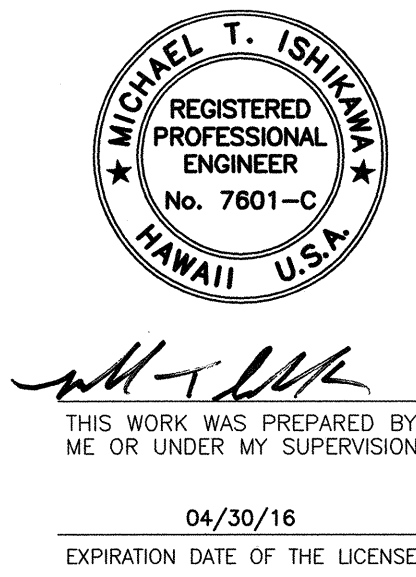


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

GENERAL NOTES

- The project is on Honoapi'ilani Highway between mileposts 15.7 and 15.9. The scope of work includes construction of a revetment and improvements including grading, erosion control, traffic control, guardrails, signage, paving, striping, extension of an existing culvert, and all incidentals.
- The Contractor shall reference the "Hawaii Standard Specifications for Road and Bridge Construction, 2005."
- The Contractor shall comply with the directives of the State of Hawaii Occupational Safety and Health Law (DOSH).
- 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 Subsection 107.06 - Contractor Duty Regarding Public Convenience, Subsection 104.09 - Maintenance of Traffic, Section 645 - Work Zone Traffic Control, and Subsection 104.11 - Utilities and Services.
- Normal working hours shall be from 7:00 a.m. to 3:30 p.m., Monday through Friday, excluding holidays. Work performed between 3:30 p.m. and 7:00 a.m. of the following day is "night work". No night work will be allowed.
- Lane closures will be allowed only from 8:30 a.m. to 3:00 p.m., Monday through Friday. Exceptions to lane closure hours specified require written acceptance by the Engineer.
- The existence and location of underground utilities, manholes, monuments, traffic signs 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 make an independent check on the ground by probing and/or with the various utility companies and governmental agencies to verify the exact locations and depths of the existing utilities. The Contractor shall exercise proper care in excavating in the area. Whenever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavating for the new lines. 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 survey and stake out the State Highway right-of-way and install all appurtenances associated with the project within the State right-of-way as shown in the plans.
- Dressing of shoulder shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items. Shoulder areas without guardrails shall be dressed at 6:1 slope (max.) unless shown on the plans or directed by the Engineer.
- When 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, and facilities with beams, struts, or underpinning to fully protect it from damage.
- All steel plates shall have a non-skid surface.
- The existing drainage system shall be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools, and incidentals necessary to maintain flow, the cost of which shall be considered incidental to various contract items.
- The location of guardrails shown on this plan are approximate. The exact locations shall be determined in the field by the Engineer.
- Resetting or adjusting of existing guardrail heights shall include adjustment of terminal sections including foundations, etc. to required height.
- All construction signs shall be left in place until all construction items have been completed. The Contractor shall obtain prior approval from the Engineer to remove construction signs. This work shall be paid for under proposal item no. 645.100.
- The Contractor shall provide for traffic and pedestrian access to and from all existing beach access points, side streets and driveways.
- New sign posts shall be square tube posts.
- 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 shall not leave more than 1 1/2" drop-offs at the edge of pavement at the end of each work day. This includes drop-offs at the centerline and at the other edges of travel lane.
- Existing guardrail appurtenances and existing signs and posts that will be removed and replaced shall be delivered to the D.O.T. Kahului Baseyard in a reusable condition and stored according to the Engineer's directions. Payment for removal, storage and delivery shall be considered incidental to various guardrail and regulatory and warning sign pay items unless noted otherwise in the proposal.
- Scarified A.C. Pavement Material shall be delivered and stockpiled at the D.O.T. Kahului Baseyard. Payment for this item shall be considered incidental to the various Contract Items.
- Existing striping and markings must be referenced by the Contractor for future use. Installation of pavement markings shall not commence until the layout is approved by the Engineer.
- The Contractor shall notify the Engineer in writing two (2) weeks prior to starting paving operations.
- Smooth riding connections shall be constructed at all limits of paving, including the beginning and end of project and connecting approaches, as shown on the plans and/or as directed by the Engineer. At locations where the new pavements tie into the existing pavement, the Contractor shall check the existing and design grades to ensure a smooth riding connection. The Contractor shall saw cut the existing pavement in the transverse direction to provide a neat connection.
- Stones and/or material to be used within the shoreline area shall be washed clean at an offsite location.
- In the event that historic remains (e.g.: subsurface fire pits, artifacts, or human skeletal remains) are inadvertently uncovered during construction, all work shall cease in the vicinity and the Contractor shall immediately contact the State Historic Preservation Division.
- Prior to the start of construction the Contractor shall submit plans regarding the location of any construction related structures such as, but not limited to trailers, sheds, equipment, material storage and construction staging areas and fencing to be used during the construction phase to the Maui County Planning Department for review and approval. The Contractor shall also submit a plan showing proposed site specific BMP's that will be implemented to mitigate any potential environmental impacts from use of this area(s) to the State Department of Health. Submittal of this information shall be done at least 30 days prior to the start of construction activities.
- The Contractor shall be responsible for obtaining sites as may be required for storage, stockpiling, field office/laboratory, staging area and other Contractor operations and shall obtain all necessary permits associated with use of the site(s) or his means and methods. Permits may include but not limited to a NPDES Permit for construction activities, County of Maui grading permit, etc.
- For verifying the location of underground ductlines and for assistance in providing proper support and protection of underground ductlines, the Contractor is to contact the One Call Center at 1-866-423-7287.
- 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. All damaged portions shall be replaced in accordance with the Standards and Specifications of the affected utility company.
- The Contractor shall verify all dimensions and details shown on the drawings prior to the start of construction. Any discrepancies shall be immediately brought to the attention of the Engineer.
- Where possible, avoid construction during periods of high surf (breaking waves of 2' or more) to minimize diversion and encroachment impacts. Work shall be discontinued during storm events and flood conditions.
- The Contractor shall take photos of the ocean during high surf or runoff conditions to document the existing water quality. The cost of this work shall be included as part of the work described in Section 209 - "Temporary Water Pollution, Dust, and Erosion Control" of the specifications.
- As part of the project's Essential Fish Habitat (EFH) consultation with the National Marine Fisheries Service/NOAA Fisheries, HDOT has developed a Relocation Plan for macroinvertebrates and/or coral colonies that may be found within the direct impact footprint of the project. The Contractor shall coordinate all work activities within the shoreline and marine environment with the HDOT Engineer to allow time for relocation, as needed, of macroinvertebrates and/or coral colonies found within the direct impact footprint of the project. Initial relocation will be conducted by HDOT's Consultant one week prior to the start of in-water work and roughly once a month thereafter throughout the course of the in-water work. Prior to the start of construction, the Contractor's personnel shall attend a mandatory informational briefing/training by HDOT's Consultant on relocation of macroinvertebrates and/or coral colonies. A copy of the Relocation Plan is included in the bid document compact disc. Cost of this work shall be incidental and will not be paid for separately.
- With the exception of actual dredging apparatus (clamshell buckets or scoop, and articulated arm of a backhoe, etc.), heavy equipment shall be operated from the landside only out of the water. In access and transit through nearshore waters is prohibited.
- The Contractor shall use extreme caution when excavating the seafloor to minimize mechanical abrasion beyond the limits of the boulder fill footprint.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(052)	2015	3	42



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL NOTES</u>	
<u>HONOAPIILANI HIGHWAY</u> Shoreline Improvements At Olowalu	
Federal-Aid Project No. NH-030-1(052)	
SCALE: None	DATE: September 2015
SHEET No. 1 OF 1 SHEETS	