

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Boating and Ocean Recreation
Honolulu, Hawaii 96819

August 11, 2017

Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

**Minor Repairs and Improvements to an Existing Boat Slip and Platform Structure; and
Declare the Project Exempt From the Requirements of Chapter 343, HRS, and
Title 11, Chapter 200, Hawaii Administrative Rules for
NOAA Office of National Marine Sanctuaries at
Maalaea Small Boat Harbor, Maui, Hawaii**

REQUEST

The Division of Aquatic Resources (DAR) is requesting that the Board of Land and Natural Resources (Board) approve minor repairs and improvements to an existing boat slip, pursuant to Hawaii Administrative Rule (HAR) Section 13-232-43. The slip is located between Trilogy Slip No. 99 and the Coast Guard piers at Maalaea Small Boat Harbor, Maui, currently being used by the *KOHOLA*, NOAA, Office of National Marine Sanctuaries, Hawaiian Islands Humpback Whale National Marine Sanctuary (HIHWNMS). The vessel *KOHOLA* supports the operations of the HIHWNMS. DAR is facilitating this project on behalf of HIHWNMS in accordance with the on-going Sanctuary joint management agreement between the State and NOAA and will draw funds for this project through this agreement. It is further requested that the proposed project is so minor that the Board declare it exempt from the requirements of Hawaii Revised Statutes (HRS), Chapter 343 and HAR Chapter 11-200 to prepare an Environmental Assessment (EA).

PROJECT DESCRIPTION

DAR is proposing to restore the existing but damaged concrete stairs leading to the slip, replace the wooden boards on the deck of the existing 12-foot by 16-foot loading platform, run electricity to the slip, install security lights and cameras, and install handrails on the boat gangplank. The DOBOR Engineering Branch and the DOBOR Maui office have reviewed and approved the proposed scope of work and is attached as Exhibit A.

PERMITS

Due to the minor repairs and improvements proposed, no permits are needed.

ENVIRONMENTAL ASSESSMENT EXEMPTION

In accordance with HAR Section 11-200-8(A) and the Exemption List for the Department of Land and Natural Resources (DLNR) of June 5, 2015, it has been determined that the proposed project is exempt from the preparation of an Environmental Assessment (EA) pursuant to the following exemptions:

August 11, 2017

Repair of Existing Boat Slip and
Declaration of Exemption from EA Requirements
Maalaea Small Boat Harbor, Maui, Hawaii

Item F-1

Exemption Class 1: “Operations, repairs or maintenance of existing structures, facilities, equipment, or topographical features, involving negligible or no expansion or change of use beyond that previously existing.”

Item #12: Operation, repair and maintenance of existing loading docks, piers, piles, boat launch ramps, offshore mooring facilities, and other similar support structures, as permitted by the U.S. Army Corps of Engineers, Honolulu District, under a Nationwide Permit 3 (Maintenance).

Exemption Class 2: “Replacement or reconstruction of existing structure and facilities where the new structure will be located generally on the same site and will have substantially the same purpose, capacity density height, and dimensions as the structure replaced.”

Item #6: “Replacement or reconstruction of existing loading docks, piers, piles, boat launch ramps, offshore mooring facilities, and other similar structures, not to exceed the footprint of the existing facility, as permitted by the U.S. Army Corps of Engineers, Honolulu District, under at Nationwide Permit No. 3 (Maintenance).”

Consultations with the Division of Boating and Ocean Recreation and the HIHWNMS for this EA Exemption have been conducted as required by HAR 11-200-8.

RECOMMENDATION

Approve the proposed repairs and improvements to the slip next to Slip No. 99, Maalaea Small Boat Harbor, Maui, Hawaii; and declare that, after considering the potential effects of the project as provided by Chapter 343, HRS, and Chapter 11-200, HAR, this project will probably have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment.

Respectfully submitted,



BRUCE S. ANDERSON
Administrator

Approved For Submittal:



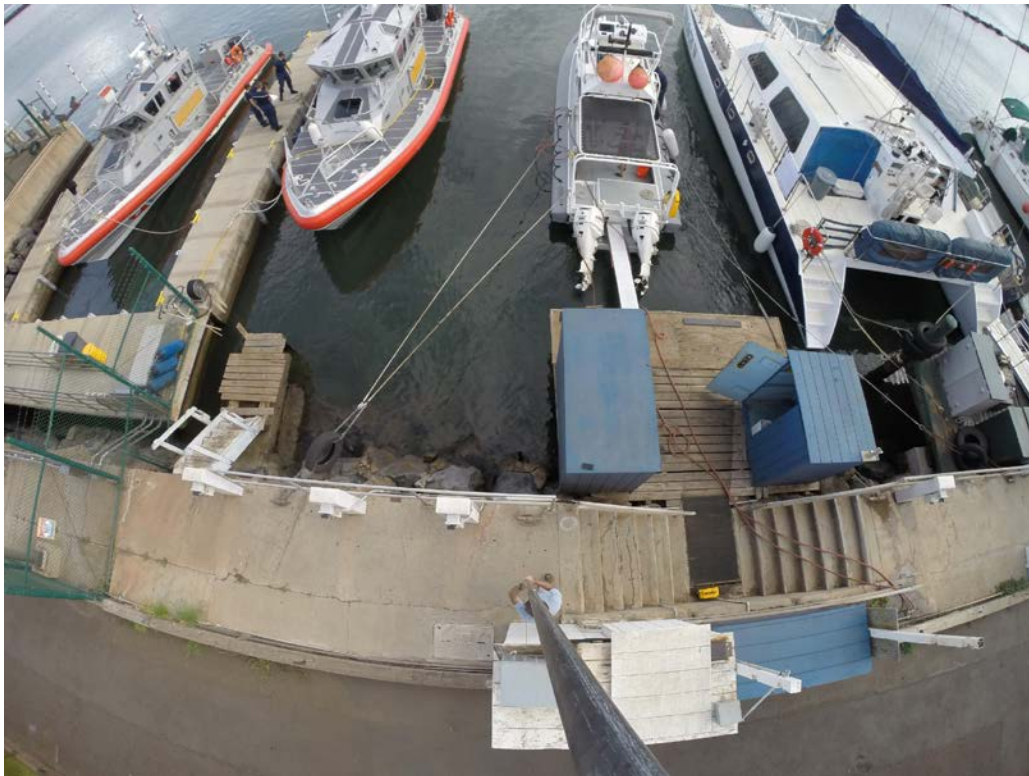
SUZANNE D. CASE
Chairperson

Attachments: Exhibit A – Scope of Work

Statement of Work
Ma'alea Harbor Slip Safety Improvements
Hawaiian Islands Humpback Whale
National Marine Sanctuary

BACKGROUND

NOAA's Hawaiian Islands Humpback Whale National Marine Sanctuary moors its boat KOHOLA in Ma'alea Harbor between Trilogy's slip #99 and the U.S. Coast Guard piers. The access to the slip consists of two concrete staircases leading down to a platform suspended above the water. There is an electrical meter and water near the top of one staircase. The platform is made of a wood deck held up by steel pillars and beams. The NOAA vessel *KOHOLA*, is tied up Mediterranean-style with a bow mooring to the south and the stern towards the platform.



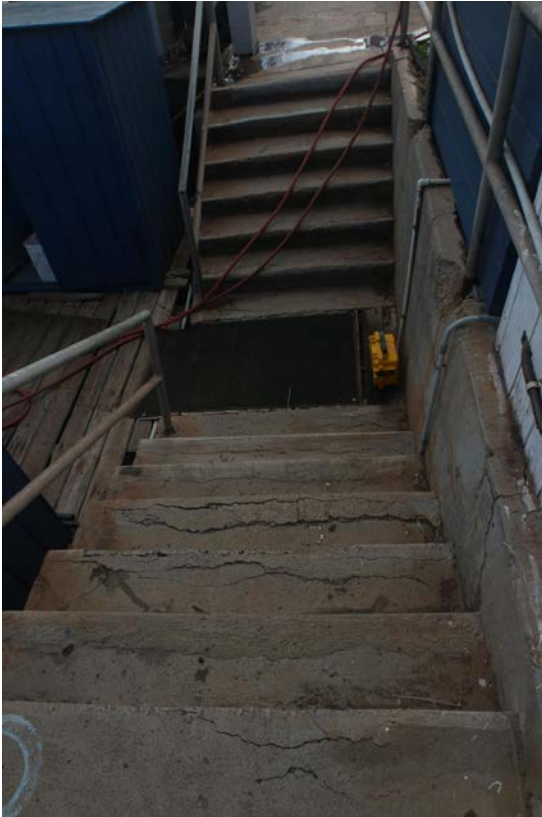
Left to right: US Coast Guard vessels with orange; middle – NOAA vessel and platform with 2 blue storage boxes; Trilogy catamaran on the right.

Ma'alea Harbor is a busy commercial fishing and tour operating hub with many boats going out throughout the day. Foot traffic is heavy near the slip. Maui noise ordinance regulates construction noise before 7:00 am and after 6:00 pm, Monday through Friday.

Existing Structures and Conditions (see photos):

Staircases

- 2 flights, lead down and towards each other with 5 foot wide landing at bottom between them
- 6 steps each, 5' wide, steps are 7'' high and 12.5'' deep each
- Concrete with steel reinforcement
- Metal handrails on south (water) side of each flight and concrete on north side
- Edges of steps are crumbling and rebar is sticking out



The two staircases that descend to the platform on the left.



The bottom of both staircases where they meet to access the platform.

Platform

- Two steel pilings on south (water) side anchored in water
- Two pilings on north (land) side anchored to shore
- Steel beams forming base of platform.
- Southeast corner of steel beam cross attached to one piling
- 3 - 4x8 inch wood beams on top of steel structure
- Wood planks (2x6) used for platform and ½'' plywood covers planks
- Wood planks screwed and nailed into 4x8 inch beams
- Two sheds located on platform (E1: 4'D x 7'8.5''W x 6'H, W1: 4'3''D x 5'6''W x 6'2''H)
- Wood planks are worn with large toe grabbing gaps between planks.
- Additional joists (cross-beams) under wood planks may be needed (gaps between beams are 60.5, 57.5 and 67 inches)



The platform that needs re-decking.



The underside of the platform showing the metal beams and supports.

Electrical

- Two possible electrical meters to use (#101 or #105)
- No power on platform. Need for lighting, charging boat, security cameras, using

power tools, charging batteries, etc.



Power utility nearest the platform.

Lighting

- Existing lighting consists of harbor lights and USCG lights
- No light along road.
- USCG lighting: They have a light pole about 30' to west with lights about 22' up that shine towards their boat and dock (south).
- No dedicated lighting for staircases
- No lighting on platform
- No lighting on stern of boat

Boat Access Brow

- Aluminum plank - (14''W x 10'4''L x 2''H)
- Not secured to either dock or boat
- Placed by hand from edge of platform to back of boat
- Narrow, slippery, angled walkway without handrails
- Section of plank is over water and between engines
- End of plank on platform (north) side sticks up creating potential teeter-totter
- Moves around as boat surges and sways
- Angle of plank becomes very steep with low tide



SPECIFIC WORK TASKS

1] Staircases – These have deteriorated to the point they are unsafe and need to be repaired.

- A. Stairs, including handrails, must be standard step sizes and width according to local building code requirements.
- B. Remove all exposed rebar. Either replace or provide solid attachment of high quality concrete.
- C. Any new concrete, must be in accordance with manufacturer's recommendations.
- D. Work with existing routed utilities (water, electric) and replace to previous positions.
- E. Fill in landing between bottom stairs leaving 8''W x 8''D gap running North-South down center to allow utilities to be run. There is currently 3'x5' of planks covering 8'' hole between bottom of steps.

2] Platform – The current 2'' X 6'' decking is insufficient to support the weight of a person and needs to be reconfigured with either more joists and/or thicker decking material.

- A. Provide new and weather resistant decked surface for entire platform.
- B. Allow for water drainage with 1/8'' to 1/4'' gaps between planks
- C. Remount existing sheds to new platform surface.

- D. Leave existing metal beams and supports as they are.
- E. Use good quality treated wood, primed and painted prior to installation.
- F. Platform is approximately 16' (east-west) by 12' (north-south).
- G. Add additional bracing under planks to provide support as needed.
- H. Stainless steel hardware is to be used.

3] Electrical Power Connection

- A. Run electricity from meter ("slip 105") to east shed.
- B. Install shore power hook up in east shed
- C. Install two outdoor rated power outlets in east shed.
- D. Encase all wires in PVC or suitable material to protect wiring.
- E. Coordinate with on-site POC for best placement and exact schematic.

4] Safety Lighting

- A. Provide and install motion sensor lights that cover east stairwell, west stairwell, and platform.
 - i. Provide energy efficient options (solar panel, LED lighting)
 - ii. Wire electrical to lighting, if needed, from meter
 - iii. Provide switch that overrides automatic sensor.
 - iv. Add onto or use existing poles in the area to eliminate need to get permitting to place pole/mount.
 - v. Coordinate with on-site POC for best placement and exact schematic.
- B. Provide lighting from USCG security lighting post located at NW corner of their fenced property.
 - i. Provide energy efficient options (solar panel, LED)
 - ii. Provide and install security flood light(s) that covers water portion of slip (boat), plank access to boat and slip platform.
 - i. Example of flood light: SLG Outdoor LED Flood Light, 120-277VAC 70 Watts(250W PSMH Comparable), 8900LM, Wide Flood Beam(NEMA 6H x 6V), Daylight White (5000K), Trunnion Mounting, Waterproof, DLC Qualified,1 Pack <https://www.amazon.com/dp/B01K93B3LM?th=1>
 - iii. Wire electrical to lighting as needed.
 - iv. Provide and install hub and switch that allows control of light via phone app. Confirm operation of app after installation.
 - i. Example of Hub and Switch: Samsung SmartThings Hub and GE Z-Wave Smart Dimmer Bundle https://www.amazon.com/Samsung-SmartThings-Hub-2nd-Generation/dp/B01M35FC52/ref=sr_1_1?ie=UTF8&qid=1493855945&sr=8-1&keywords=smarthings&th=1
 - v. Coordinate with on-site POC for best placement and exact schematic.

5] Railing for Boat Access Brow

- A. Make aluminum handrails according to attached schematic.
- B. Handrails should support 200-lbs. of weight.
- C. Handrails should be secured to platform in way that they can be removed if necessary.

6] Security Cameras

- A. Install one security camera in the east shed pointing at the stern of the vessel. (Power from meter for slip #105.)
- B. Install second security camera on a post above the staircases. (Power from meter for slip

#105.)

- C. Install third security camera on USCG security lighting post located at NW corner of their fenced in slip property. (Tie into USCG power.)
- D. Coordinate with on-site POC for best placement and exact schematic.
- E. Install security cameras in A and B with the following minimum specs:
 - heavy duty and weather resistant
 - appropriate mounting
 - HD 1080
 - WiFi
 - DVR via WiFi
 - Free App for operation
 - Infrared night vision
 - Night range to 50 feet or more
 - example: Titathink TT730LPW Professional Full HD 1080P Wifi Wireless & Wire PoE Combo Outdoor Weatherproof Security Network IP Bullet Camera with long range Night Vision, Support Local Micro SD card Recording, 32G MicroSD card inside, Two way audio, Motion Detection, ONVIF and NAS Compliant, Free apps for iphone, ipad, Android Smartphone and More https://www.amazon.com/Titathink-TT730LPW-Professional-Weatherproof-Smartphone/dp/B00RF5N3PM/ref=sr_1_10?ie=UTF8&qid=1468974492&sr=8-10&keywords=security+camera+outside+wireless+hd+micro+sd+card+day%2Fnight
- F. In addition to minimum specs from 6.E above, camera for part 6.C should have pan/zoom capability.
- G. Activate security cameras and link to WiFi and DVR system.
 - a. Provide DVR with at least 4 channel capability, WiFi and WiFi extensions as needed.
 - i. Example of DVR: Samsung SDH-B74081 8 Channel HD Security DVR SDR-B74301 Only with Accessories (Supports up to 1080p Analog Cameras) https://www.amazon.com/Samsung-SDH-B74081-Security-SDR-B74301-Accessories/dp/B01LZUK1AH/ref=sr_1_5?s=electronics&ie=UTF8&qid=1493857027&sr=1-5&keywords=dvr+for+camera+security
 - ii. Example of WiFi: TP-Link AC3150 Wireless Wi-Fi Router - High Performance Wave 2 Wi-Fi for 4K Streaming and Gaming (Archer C3150 V2) https://www.amazon.com/TP-Link-AC3150-Wireless-Wi-Fi-Router/dp/B01N4R01UJ/ref=sr_1_10?s=electronics&ie=UTF8&qid=1493858874&sr=1-10&keywords=wifi+router
 - iii.
 - b. Test phone app capability of cameras.