

**Solicitation No. B24003374 / Job No. B00CH80A**  
**Pohoiki Boat Ramp Excavation and Dredging of Volcanic Debris**  
**Puna, Island of Hawaii, Hawaii**

**Questions Received via HlePRO and Responses (July 12, 2024):**

**1. Is there a geotechnical report available; if not, can we gain access to the beach area sufficiently to perform test pits to verify whether there is any hard rock?**

Yes, a geotechnical report will be issued via addendum.

**2. Access for large equipment is problematic due to the primary highway access being closed due to the 2018 lava flows; will the highway be open before this project starts? if not, how should we plan to mobilize large earthmoving equipment to the site?**

Contractors shall assume that Pohoiki Road will not be open to provide access for equipment. Contractors shall base their bid on accessing the project site via Kalapana-Kapoho Road (Hwy. 137).

**3. Dredge access from the open water side is not an option to the dangers involved; please provide acceptable alternatives to traditional "dredging" from the open water side of the project?**

Means and methods for dredging will be up to the discretion of each contractor. It is assumed that a land-based crane with clamshell will be used for dredging.

**4. Please provide a specific of which permits DLNR has applied for and which are the responsibility of the contractor; there are sections of the specifications that provide broad direction like section 02200-2, subsection 1.5 putting the responsibility on the contractor to know which are required and which DLNR is providing?**

The following are permits that have been applied for:

- County Grading Permit
- County Stockpiling Permit
- NPDES Permit
- Army Corps permit/Letter of Permission

Contractor will be required to pick up County Grading and Stockpiling permits from the County prior to starting construction (once approved by the County).

**5. Please provide clarification as to how the contractor should differentiate between "dredging" and "excavation"; section 02281, subsection 1.02 seems to define dredging as all volcanic debris below +2-ft MLLW, yet section 02281, subsection 3.01 seems to imply dredging is between -6-ft and -10-ft MLLW (what about +2-ft to -6-ft and -10-ft to -14-ft MLLW)? Our volume analysis estimates the volume of volcanic debris above -2-ft elevation is closer to 20,000 cys instead of the bid schedule's quantity of 16,000 cy?**

Excavation shall include all volcanic debris above +2 MLLW. Dredging shall include all volcanic debris +2 MLLW and below. The volume of excavated and dredged volcanic material shall be revised to be 20,500 CY and 21,500 CY respectively.

**6. Pleaes provide a clear and specific planting plan; the current documents lack the necessary specificity to properly price the planting implied by the bid schedule and specifications?**

Planting shall consist of Naupaka Kahakai (3 gal) installed at 3' o.c. as shown on the attached Planting Figure. Contractor shall coordinate with landowner for planting installation.

**7. What are the compaction requirements for the embanked material in grading areas 2 & 3?**

No compaction requirements for grading area 2. Material shall be sufficiently compacted to eliminate any voids.

Embanked material for the temporary access road and leveling surface over grading area 3 shall be compacted to a minimum of 95% relative compaction per ASTM D1557. No compaction requirements for stockpile mounds, however, material shall be sufficiently compacted to eliminate any voids.

**8. Section 01570 part 3.10 paragraph 6 states a biological monitor needs to be present during all work if protected species are identified. No biological survey has been conducted of the site at this time, so it is indeterminant if a biological monitor is required. Please consider changing bid item 7 into a Force Account Bid Item.**

For bidding purposes, it shall be assumed that a qualified biologist will be required on-site throughout excavation and dredging operations. The bid proposal has been revised to include a separate line item for the Biological Survey and Biological Monitoring by a qualified biologist throughout the duration of excavation and dredging operations.

**9. After the lifeguard tower has been salvaged, what is to be done with the salvaged material?**

Contractor shall coordinate with the County of Hawaii for salvaging of the lifeguard tower. DLNR will coordinate with the Contractor to provide a County of Hawaii contact during construction.

**10. There is no indication planting of shrubbery in the plan set. Request to remove bid item 11 from the proposal.**

Planting shall consist of Naupaka Kahakai (3 gal) installed at 3' o.c. (triangular spacing) as shown on the attached figure. Contractor shall coordinate with landowner for planting installation.

**11. Section 01570 - 3.05 paragraph J states any soil exposed near water shall be stabilized with native or non invasive vegetation matting, hydroseeding etc. Is the intent to vegetate the excavated and dredged material after it has been embanked? Due to the anticipated material type, this is not a practical stabilization method. Recommend removing this requirement or directing an alternate stabilization method to be provided**

3.05 subsection J to be removed.

**Questions Received via Email and Responses (July 12, 2024):**

1. With such aggressive surf and current activity, it is likely the constructed side slopes will not be stable enough to remain without significant armor stone; who will be responsible for this cost?

Armoring side slopes of the entrance channel is not included the project scope of work and will not be required by the State.

2. Will the contractor be paid for additionally to re-excavate "sluffing" and repair areas due to slope failures and/or erosion from the natural surf and current activity during the construction process?

The contractor will be paid based on the volume (cubic yards, CY) of volcanic debris removed and stockpiled.

It is the State's intent for the contractor to begin excavation work starting on the boat ramp side and continue seaward until a large berm exists at the entrance channel opening. The contractor will survey and verify with the Engineer that excavation behind the berm, to the depths, grades, and slopes shown on the plans, has been completed. At this point, the contractor may bill for the volume (CY) of material removed behind the berm.

It is the State's intent for the contractor to then remove the ocean-side berm via land-based crane with clamshell bucket to remove the remaining volume of volcanic debris to approximately the depths, grades, and slopes shown on the plans.

The State acknowledges that the contractor may not be able to maintain the grades and slopes along the entrance channel, due to movement of volcanic debris from to wave action after dredging is completed. The contractor will be paid based on the volume (CY) of volcanic debris removed and stockpiled. If additional funds are available, the State may direct the contractor, through a change order, to perform additional dredging as needed.

3. If the excavation effort is counteracted, hindered, and/or prevented outright by the natural surf and currents erosive forces, who will be responsible for the time/cost of the rework needed and the uncertainty associated with the duration of standby due to delays?

See response to Question #2 above. The contractor will be paid based on the volume (CY) of volcanic debris removed and stockpiled, the quantities of which are stipulated in the bid proposal form. If additional funding is available and additional dredging is required, the State may direct the contractor, through a change order, to perform additional dredging as needed.

4. The original topographic/bathometric data was gathered in the last few years; however, it appears the shoreline is still changing, especially during heavy surf. Who is responsible for the difference between the existing topographic/bathometric surface shown in the plans and that existing currently at the site?

The contractor will be required to perform a pre-excavation/dredging topographic survey, from the boat ramp side of the project area to the mean higher high water mark on the entrance channel side of the project area, to establish existing site elevations prior to beginning excavation and dredging. A revised Specification Section 02281 Dredging will be issued via addendum to include pre-excavation/dredging surveying.

5. The specifications are not super clear on how the volume will be measured for payment and how frequently such measuring will be done; it seems critical due to the level of erosion and sluffing that will likely occur during construction?

See response to Question #2 above.