

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (*City and State*)

County of Hawaii
Notice to Providers of Professional Services

2. PUBLIC NOTICE DATE

June 1, 2025

3. SOLICITATION OR PROJECT NUMBER

Fiscal Year 2025-2026
(July 1, 2025 to June 30, 2026)

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Chris Conger, Vice President

5. NAME OF FIRM

Sea Engineering, Inc.



6. TELEPHONE NUMBER

(808) 536-3603

7. FAX NUMBER

8. E-MAIL ADDRESS

cconger@seaengineering.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

(Check)			12. FIRM NAME	13. ADDRESS	14. ROLE IN THIS CONTRACT
Prime	J-V Partner	Subcontractor			
			a. Sea Engineering, Inc.	Sea Engineering, Inc. 504 N. Nimitz Hwy Honolulu, HI 96817	Coastal and Ocean Engineering, Marine Construction, Boat and Diving Services
			b. ☐ CHECK IF BRANCH OFFICE		
			c. ☐ CHECK IF BRANCH OFFICE		
			d. ☐ CHECK IF BRANCH OFFICE		
			e. ☐ CHECK IF BRANCH OFFICE		
			f. ☐ CHECK IF BRANCH OFFICE		
			g. ☐ CHECK IF BRANCH OFFICE		
			h. ☐ CHECK IF BRANCH OFFICE		
			i. ☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☐ (Attached)

E. RESUME OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)					
12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
David A. Smith, Ph.D., P.E.		Senior Coastal Engineer		a. TOTAL	b. WITH THIS FIRM
				27	18
15. FIRM NAME and LOCATION (City and State)					
Sea Engineering, Inc.					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
Ph.D., University of Hawaii-Manoa, Ocean Engineering			Hawaii Professional Engineer		
M.S., University of Hawaii-Manoa, Ocean Engineering			Guam Professional Engineer		
B.S., University of Hawaii-Manoa, Mathematics			California Professional Engineer		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
Member – ASCE PADI Open Water Diver Certification, Nitrox Certification					
19. RELEVANT PROJECTS					
a.	(1) TITLE and LOCATION (City and State)			(2) YEAR COMPLETED	
	Kamehameha Highway Shoreline Erosion Mitigation Kaaawa, Oahu			Professional Services	Construction
				2020 to present	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE			☒ Check if project performed with current firm	
	Sea Engineering, Inc. has been contracted by AECOM for HDOT Highways Division to assist with implementation of temporary erosion protection for Kamehameha Highway at Kaaawa, Oahu. Work tasks include preparation of a basis of design report, an environmental assessment, construction drawings for selected plan, the Department of the Army permit application, as well as community outreach. Cost: \$364,710 Role: Coastal Engineer				
b.	(1) TITLE and LOCATION (City and State)			(2) YEAR COMPLETED	
	Windward Highway Shore Protection Windward Oahu			2021 to present	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE			☒ Check if project performed with current firm	
	Sea Engineering, Inc., has been contracted by AECOM for HDOT Highways Division to prepare a Draft and Final Basis (BOD) report in support of the Windward Oahu Highway erosion mitigation project. Additional work tasks include consultations with Federal, State, City & County agencies, neighborhood boards, and citizen groups; prepare technical sections for a DEA; prepare construction plans and the necessary permit applications for construction. Cost: \$721,231 Role: Coastal Engineer				
c.	(1) TITLE and LOCATION (City and State)			(2) YEAR COMPLETED	
	Hilo Harbor Breakwater Improvements – Basis of Design Hilo, Hawaii			Professional Services	Construction
				2024	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE			☒ Check if project performed with current firm	
Recent inspections of the Hilo breakwater have found areas of possible damage. As a result of the inspections, repairs have been recommended. In support of the need for repairs, Sea Engineering, Inc. (SE) had been contracted by Cardno GS and the U.S. Corps of Engineers (USCOE) to conduct high resolution numerical modeling of wave conditions on the breakwater at selected future sea levels to determine stability and vulnerability of the breakwater. SE then developed several repair designs to address the existing and future vulnerabilities. Cost: \$381,189 Role: Project Manager/Senior Coastal Engineer					
d.	(1) TITLE and LOCATION (City and State)			(2) YEAR COMPLETED	
	Laupahoehoe Harbor Repair Design Laupahoehoe, Hawaii			Professional Services	Construction
				2023	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE			☒ Check if project performed with current firm	
In 2019, USACE retained the services of Nagamine Okawa Engineers, Inc. and Sea Engineering, Inc. (SE) to evaluate the condition of the existing breakwater, develop and compare alternative repair plans, and develop conceptual repair plans and rough order of magnitude construction costs under the U.S. Army Corps of Engineers (USACE) Operations & Maintenance (O&M) program. In 2020, USACE retained the services of Cardno GS, Inc., and SE to develop the repair plan through final design. Cost: \$141,640 Role: Project Manager/Coastal Engineer					
e..	(1) TITLE and LOCATION (City and State)			(2) YEAR COMPLETED	
	Waikoloa Beach Management Plan Waikoloa, Hawaii			Professional Services	Construction
				2021	n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE			☒ Check if project performed with current firm	
During a tsunami in March 2011 the beach at Anahoomalu Bay was severely eroded. To ensure the continued stability of their beach, and address concerns about sea level rise, the Waikoloa Land Company and Waikoloa Beach Association had contracted Sea Engineering to develop a long-term plan for management and maintenance. Work included beach change monitoring, coastal assessment and preliminary concept plan, offshore sand survey, development of a detailed beach maintenance/management plan, environmental assessment and permit application, and detailed design and construction documents. Cost: \$36,760 Role: Coastal Engineer					

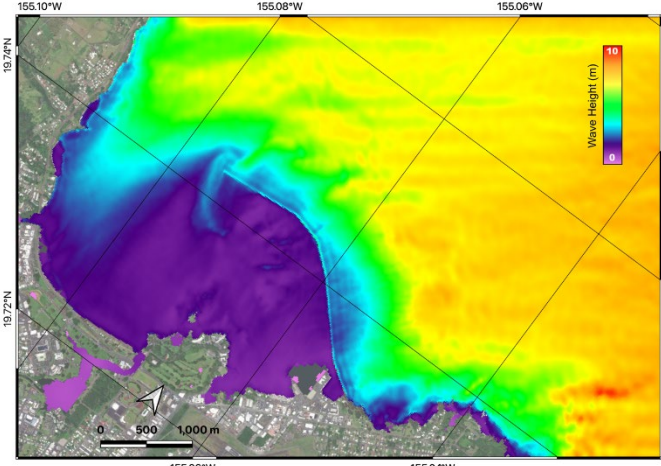
E. RESUME OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME		14. YEARS EXPERIENCE	
Christopher Goody, P.E.		13. ROLE IN THIS CONTRACT	
		Senior Ocean Engineer	
		a. TOTAL	b. WITH FIRM
		28	17
15. FIRM NAME and LOCATION (City and State)			
Sea Engineering, Inc.			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
MS, Ocean Engineering, University of Hawaii at Manoa BS, Ocean Engineering, Florida Institute of Technology		Hawaii Professional Engineer (Civil)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
American Society of Civil Engineers, Marine Technology Society SCUBA certified			
19. RELEVANT PROJECTS			
a.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Kamehameha Hwy Shoreline Erosion Mitigation		Professional Services
	Kaaawa, Oahu		Construction
			2020 to present
			n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm	
Sea Engineering, Inc. has been contracted by AECOM for HDOT Highways Division to assist with implementation of temporary erosion protection for Kamehameha Highway at Kaaawa, Oahu. Work tasks include preparation of a basis of design report, an environmental assessment, construction drawings for selected plan, the Department of the Army permit application, as well as community outreach. Cost: \$364,710 Role: Senior Ocean Engineer			
b.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Hilo Harbor Breakwater Improvements – Basis of Design		
	Hilo, Hawaii		2024
			n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
Recent inspections of the Hilo breakwater have found areas of possible damage. As a result of the inspections, repairs have been recommended. In support of the need for repairs, Sea Engineering, Inc. (SE) had been contracted by Cardno GS and the U.S. Corps of Engineers (USCOE) to conduct high resolution numerical modeling of wave conditions on the breakwater at selected future sea levels to determine stability and vulnerability of the breakwater. SE then developed several repair designs to address the existing and future vulnerabilities. Cost: \$381,189 Role: Senior Ocean Engineer			
c.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Hilo Wastewater Treatment Plant Outfall Inspection		Professional Services
	Hilo, Hawaii		Construction
			2023
			n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm	
Sea Engineering, Inc (SE), has been contracted by the County of Hawaii Wastewater Division to inspect the Hilo Wastewater Treatment Plant (WWTP) Ocean Outfall as part of the requirement in the facility's National Pollutant Discharge Elimination System permit (NPDES Permit No. HI 00213 77). Work tasks include a visual and dye inspection, and a color video documenting the inspection, a written report summarizing the results of the inspection noting all identified defects and their location. Cost: \$25,995 Role: Senior Ocean Engineer			
d.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Laupahoehoe Harbor Repair Design		Professional Services
	Laupahoehoe, Hawaii		Construction
			2023
			n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm	
In 2019, USACE retained the services of Nagamine Okawa Engineers, Inc. and Sea Engineering, Inc. (SE) to evaluate the condition of the existing breakwater, develop and compare alternative repair plans, and develop conceptual repair plans and rough order of magnitude construction costs under the U.S. Army Corps of Engineers (USACE) Operations & Maintenance (O&M) program. In 2020, USACE retained the services of Cardno GS, Inc., and SE to develop the repair plan through final design. Cost: \$141,640 Role: Senior Ocean Engineer			
e.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Laniakea Highway Relocation Coastal Assessment		Professional Services
	Haleiwa, Oahu		Construction
			2022
			n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm	
The Hawaii Department of Transportation was interested in moving Kamehameha Highway inland at Laniakea on the North Shore of Oahu to alleviate hazardous traffic and pedestrian crossing. In support of planning and preparation of an environmental assessment (EA) for the proposed project, Sea Engineering, Inc (SE) was contracted by WSP for HDOT Highways division to complete a tsunami and wave runup and inundation analyses, and a coastal assessment of the project site. Cost: \$60,460 Role: Senior Ocean Engineer			

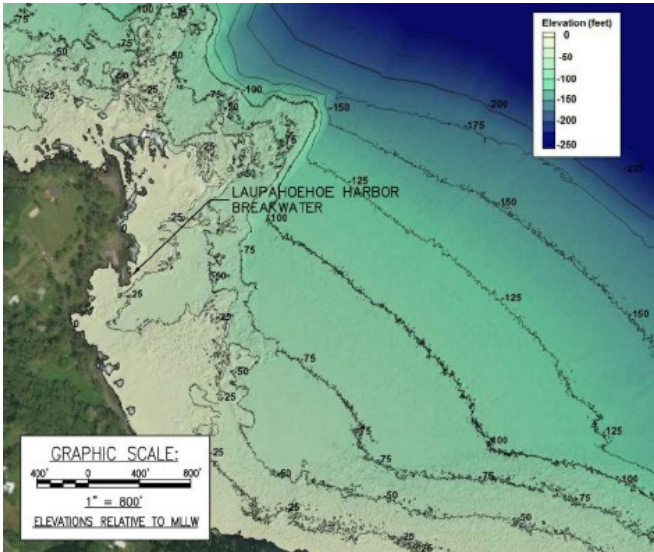
E. RESUME OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME		13. ROLE IN THIS CONTRACT	
Christopher L. Conger, Vice President		Project Manager/Coastal Scientist	
		14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH THIS FIRM
		20	14
15. FIRM NAME and LOCATION (City and State)			
Sea Engineering, Inc.			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
M.Sc., University of Hawaii-Manoa, Coastal Geology B.S., University of Hawaii-Manoa, Geology and Geophysics			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
100 ton near shore Captains License, Navy Second Class Diver Certification, Commercial Diver Certification (ADC Supervisor)			
19. RELEVANT PROJECTS			
a.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Hawaii DOT Scour Critical Bridge Project – Bathymetry & Underwater Inspection and Permitting Hawaii Island, Kauai, & Oahu		Professional Services 2015 to Present
			Construction n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
	The State Department of Transportation has assessed 27 bridges across the State for possible scour repairs. Sea Engineering completed bathymetry surveys and underwater inspections of 5 bridges, including Kolekole Bridge and Paheehee Bridge on Hawaii Island, Wailua River Bridge and Wailua River Plantation Bridge on Kauai, and the Waimea River Bridge on Oahu. SE is also responsible for requiring permits for the repair work. Cost: \$319,655 Role: Project Manger		
b.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Route 50 Kauai Sea Level Rise Feasibility Study Kauai, Hawaii		Professional Services 2023 to present
			Construction n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
	Sea Engineering, Inc has been contracted by Bowers and Kubota and the State of Hawaii, Department of Transportation to evaluate coastal hazards, sea level rise vulnerability, and wave flooding for different resiliency alternatives in the Route 50 project area. Work tasks include field investigations, review of existing available information, overview of sea level rise projections, high-resolution sea-level rise and wave inundation modeling for future sea level rise scenarios, evaluation of coastal mitigation and resiliency alternatives, and a detailed report presenting the results. Cost: \$71,700 Role: Project Manger		
c.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Sea Level Rise Wave Inundation Study, Honoapiilani Highway Realignment Olowalu and Ukumehame, Maui, Hawaii		Professional Services 2023 to present
			Construction n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
	Sea Engineering, Inc. (SE) has been contracted by WSP and the State of Hawaii, Department of transportation to conduct a sea level rise (slr) and wave inundation study for proposed roadway alignment alternatives along Honoapiilani Highway at Ukumehame and Olowalu, Maui. Project tasks included a comprehensive summary of the current slr projections, review of the Hawaii sea level rise exposure area, numerical modeling of wave induced flooding for a future sea level of 0.98 m (3.2 ft) for existing topography and each of the four (4) highway realignment alternatives, and summary of project area FEMA flood hazard zones. Cost: \$58,350 Role: Project Manager		
d.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Kaunalapau Harbor Hydrographic Survey Lanai, Hawaii		Professional Services 2024
			Construction n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
	Sea Engineering, Inc (SE) was contracted by HDR and the Hawaii Department of Transportation to conduct a multibeam hydrographic survey of Kaunalapau Harbor to include navigable waters between Kaunalapau Wharf and the outer channel markers. Deliverables included an xyz data file, CAD chart of sounding and contours and a survey report. Cost: \$42,7255 Role: Project Manager		
e.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Mauna Kea Shoreline Restoration Project Kohala Coast, Hawaii		Professional Services 2018
			Construction n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
	The Mauna Kea Resort on Hawaii Island planned improvements to their shoreline and hotel. Sea Engineering had been contracted by Hookuleana LLC, Prince Resorts Hawaii to conduct detailed oceanographic and shoreline investigations to support implementation of these improvements. Cost: \$81,800 Role: Project Manager		

E. RESUME OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME		13. ROLE IN THIS CONTRACT	
Marc Ericksen, Senior Executive Officer		Project Manager	
		14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH FIRM
		34	34
15. FIRM NAME and LOCATION (City and State)			
Sea Engineering, Inc.			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
M.S. Coastal Geology B.S. Earth Sciences			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Member – ASCE, MTS, ACECH, SAME, WEDA, WEF, ASBPA Certified Hydrographer – National Society of Professional Surveyors/Hydrographic Society of America			
19. RELEVANT PROJECTS			
a.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	HIC-2 Interisland Cable Route Bathymetry and Biological Surveys Oahu, Molokai, Maui, and Hawaii Island		
			2024 to present
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		☒ Check if project performed with current firm
Hawaiian Telcom is proposing to establish the Hawaii Interconnector Cable 2 (HIC-2) submarine fiber optic cable system connecting Kauai, Oahu, Molokai, Maui and Hawaii. In support of the planning, design and environmental permitting for the proposed cable system, Sea Engineering, Inc. (SE) has been contracted by RM Towill and Hawaiian Telcom to conduct towed camera, bathymetry, and marine biological surveys of the proposed cable landing sites. Cost: \$ \$1,320,620.00 Role: Project Manager			
b.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Kalihiwai Stream Hydrographic Survey Kauai, Hawaii		Professional Services
			Construction
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		2024 to present
Sea Engineering, Inc. (SE) has been contracted by Park Engineering and the State of Hawaii Department of Transportation to provide a multibeam hydrographic survey of the Kalihiwai Stream in support of scour repairs at Kalihiwai River Bridge. The survey extends from the stream mouth to the plunge pool upstream of Kalihiwai Bridge, roughly 4500 feet. Survey deliverables include an xyz file of the data, contour, and color-coded charts of stream depths. Cost: \$66,400 Role: Project Manger			
c.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Laupahoehoe Biological Surveys and Environmental Support Laupahoehoe, Hawaii		Professional Services
			Construction
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		2022
Sea Engineering, Inc., was contracted by Cardno GS for USACE to perform reconnaissance biological surveys of the marine environment within and adjacent to the Laupahoehoe Harbor breakwater. Work tasks include generating habitat maps, conduct quantitative surveys, develop a report presenting key findings and providing qualitative information that characterizes presence/absence and abundance of fish, macroalgae, and non-coral macroinvertebrates species. Cost: \$38,036 Role: Project Manager			
d.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Mokapu Ocean Outfall NPDES Oceanographic Measurements Kaneohe, Hawaii		
			2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		n/a
In support of the City and County of Honolulu's NPDES permit requirements to conduct oceanographic measurements for the Kailua Regional Wastewater Treatment Plant Mokapu ocean outfall, Sea Engineering, Inc. (SEI) was responsible for deployment of 2 acoustic Doppler current profilers for a 1-year period, collection of water samples, CTD profiles, diver reconnaissance of proposed buoy anchor locations, fabrication of buoy sensor mounting platforms, and deployment/inspection of two scientific monitoring buoys in the outfall vicinity. Cost: \$200,000 Role: Project Manager			
e.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Hilo WWTP Outfall Inspection Hilo, Hawaii		
			2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		n/a
Sea Engineering, Inc. (SE) was contracted by the Hawaii County Wastewater Division to perform an underwater inspection of the Hilo Wastewater Treatment Plant (WWTP) outfall. SE performed inspections on the outfall in 1987, 1990, 2001, 2005, 2011, and 2012 and again in September of 2018. The inspection was conducted by a five-man dive team using SCUBA and covered the submerged length of the outfall. Cost: \$22,400 Role: Project Manager			

E. RESUME OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME		13. ROLE IN THIS CONTRACT	
14. YEARS EXPERIENCE			
a. TOTAL		b. WITH THIS FIRM	
Ian Hardy		Ocean Engineer	
8		8	
15. FIRM NAME and LOCATION (City and State)			
Sea Engineering, Inc.			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
M.S. University of Hawaii-Manoa, Ocean and Resources Engineering B.A.Sc., University of British Columbia, Civil Engineering Dip. Tech., Camosun College, Civil Engineering Technology			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
AAUS Scientific Diver Boater Safety Course			
19. RELEVANT PROJECTS			
a.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Kamehameha Highway Shoreline Erosion Mitigation Kaaawa, Oahu		Professional Services 2020 to present
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		Construction n/a
	Sea Engineering, Inc. has been contracted by AECOM for HDOT Highways Division to assist with implementation of temporary erosion protection for Kamehameha Highway at Kaaawa, Oahu. Work tasks include preparation of a basis of design report, an environmental assessment, construction drawings for selected plan, the Department of the Army permit application, as well as community outreach. Cost: \$3640,710 Role: Ocean Engineer		☒ Check if project performed with current firm
b.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Route 50 Kauai Sea Level Rise Feasibility Study Kauai, Hawaii		Professional Services 2023 to Present
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		Construction n/a
	Sea Engineering, Inc. (SE) has been contracted by Bowers Kubota and the State of Hawaii Department of Transportation to evaluate coastal hazards, sea level rise vulnerability, and wave flooding for different resiliency alternatives in the Route 50 project area. Work tasks include field investigations, reviewing existing available information, overview of sea level rise projections, high-resolution sea-level rise and wave inundation modeling for future sea level rise scenarios, evaluation of coastal mitigation and resiliency alternatives, and a detailed report presenting the results. Cost: \$71,700 Role: Project Manager/Ocean Engineer		☒ Check if project performed with current firm
c.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Sea Level Rise Wave Inundation Study, Honoapiilani Highway Realignment Honoapiilani Highway – Olowalu and Ukumehame, Maui, Hawaii		Professional Services 2023 to present
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		Construction n/a
	Sea Engineering, Inc. (SE) has been contracted by WSP and by the State of Hawaii Department of Transportation to conduct a sea level rise (slr) and wave inundation study for proposed roadway alignment alternatives along Honoapiilani Highway at Ukumehame and Olowalu, Maui. Project tasks include a comprehensive summary of the current SLR projections, review of the Hawaii sea level rise exposure area (SLR-XA), numerical modeling of wave induced flooding for future sea level of 0.98 m (3.2 ft) for existing topography and a summary of project area FEMA flood hazard zones. Cost: \$58,350 Role: Ocean Engineer		☒ Check if project performed with current firm
d.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Sea level Rise Inundation and ASCE Tsunami Analyses - Kalaeloa Facility Kalaeloa, Hawaii		Professional Services 2023 to present
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		Construction n/a
	Sea Engineering has been contracted by PERC Water Corporation to conduct a sea level rise (SLR) flooding hazard analyses and ASCE tsunami flow analyses for the proposed Kalaeloa Seawater Desalination Facility. The proposed scope of work includes assessment of natural hazards associated with 100-year wave/storm events and tsunamis while incorporating sea level rise. In addition, tsunami flow depths and velocities were determined for the project site at proposed structure locations per ASCE7-16 design guidelines in support of structural design for tsunami loads. Cost:\$109,922 Role: Ocean Engineer		☒ Check if project performed with current firm
e.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Magic Island Lagoon Retaining Wall and Walkway Improvements Honolulu, Hawaii		Professional Services 2025
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE		Construction n/a
	Sea Engineering, Inc. (SE) was contracted by the City and County of Honolulu to provide project management, permitting, plans, specifications, and contract documents for design of repairs of the CRM seawall and replacement of the walkway. Cost: \$405,000 Role: Ocean Engineer		☒ Check if project performed with current firm

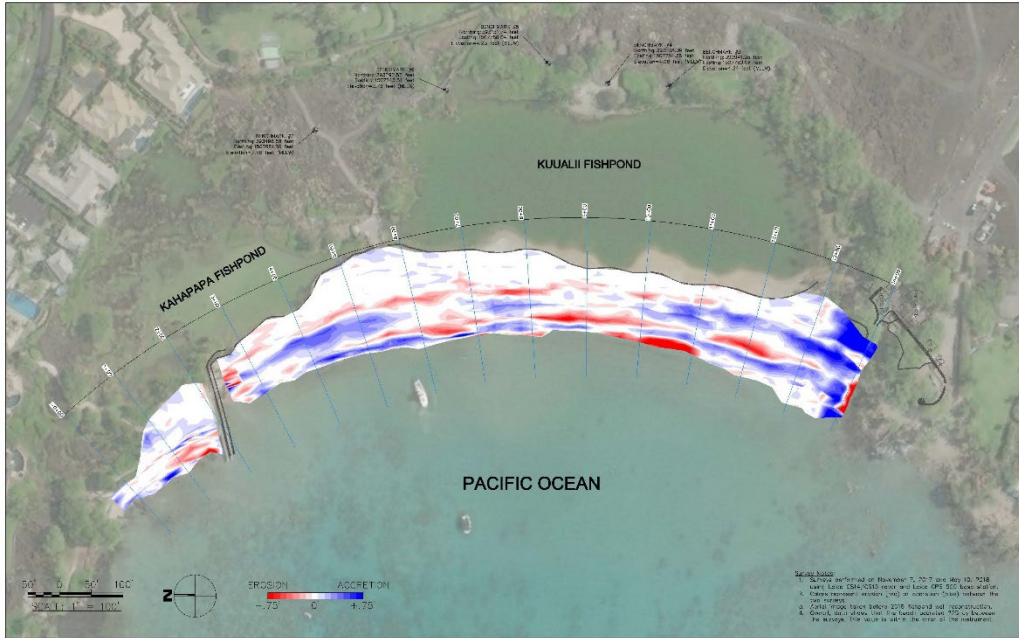
E. RESUME OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME		13. ROLE IN THIS CONTRACT	
Morgan Stephenson		Coastal Engineer	
		14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH THIS FIRM
		14	14
15. FIRM NAME AND LOCATION (City and State)			
Sea Engineering, Inc.			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
M.S. Coastal Engineering M.S. Civil Engineering B.S. Civil Engineering			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Member – ASCE			
19. RELEVANT PROJECTS			
a.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Piilani Highway, Kalepa Revetment and Seawall Repair Kalepa, Maui		Professional Services Construction
			2016 to present n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE ☒ Check if project performed with current firm		
Sea Engineering, Inc., was contracted by the County of Maui, Department of Public Works to provide the design and permitting of shore and road protection along an approximate 450-ft reach of the Piilani Highway at the Kalepa headland. Work included: Topographic survey, planning and permitting, project permits, and project design. Design elements include the shore protection revetment, shore protection seawall/retaining wall, roadway improvements (asphalt paving and guardrail installation), and additional bank stabilization and possible shore protection. Cost: \$881,688 Role: Coastal Engineer			
b.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Laupahoehoe Harbor Repair Design Laupahoehoe, Hawaii		Professional Services Construction
			2023 n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE ☒ Check if project performed with current firm		
In 2019, USACE retained the services of Nagamine Okawa Engineers, Inc. and Sea Engineering, Inc. (SE) to evaluate the condition of the existing breakwater, develop and compare alternative repair plans, and develop conceptual repair plans and rough order of magnitude construction costs under the U.S. Army Corps of Engineers (USACE) Operations & Maintenance (O&M) program. In 2020, USACE retained the services of Cardno GS, Inc., and SE to develop the repair plan through final design. Cost: \$141,640 Role: Coastal Engineer			
c.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Pohoiki Boat Ramp Repair Relocation Study Puna, Hawaii		Professional Services Construction
			2020 n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE ☒ Check if project performed with current firm		
Sea Engineering was contracted by the Department of Land & Natural Resources – DOBOR to provide coastal engineering and environmental permitting services to determine the scope of work, environmental permitting requirements, and cost estimates to repair and improve the Pohoiki Boat Ramp facility located along the southeast coast of Hawaii Island. Cost: \$42,960 Role: Coastal Engineer			
d.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Kalaeloa Harbor Channel & Basin Hydrographic Survey Kalaeloa Harbor, Oahu		Professional Services Construction
			2019 n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE ☒ Check if project performed with current firm		
Sea Engineering, Inc (SE) was contracted by Control Point Surveying for HDOT Harbors Division to provide a Multibeam hydrographic Survey of the channel and basin areas of Kalaeloa Barbers Point Harbor. Project deliverables included an xyz file of the bathymetry data and a color-coded DEM. Cost: \$20,300 Role: Coastal Engineer/Hydrographic Surveyor			
e.	(1) TITLE and LOCATION (City and State)		(2) YEAR COMPLETED
	Lahaina Small Boat Harbor Maintenance Dredging Design Services Lahaina, Maui		Professional Services Construction
			2018 n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) and SPECIFIC ROLE ☒ Check if project performed with current firm		
Lahaina Small Boat Harbor consisted of 16 berths, 83 moorings, loading docks, a fuel facility, and restrooms. The harbor experienced extensive damage during the August 8, 2023, wildfires. Most of the harbor infrastructure and vessels were either destroyed in the fire or damaged beyond repair. Sea Engineering, Inc (SE) was contracted by Department of Land & Natural Resources – DOBOR to provide a harbor and channel post fire investigation. Work tasks include design and dredging multibeam surveys; preparation of dredge plans, specifications and bidding documents; pre and post dredge biological surveys; and obtaining all required permitting. Cost: \$300,442 Role: Coastal Engineer/Hydrographic Surveyor			

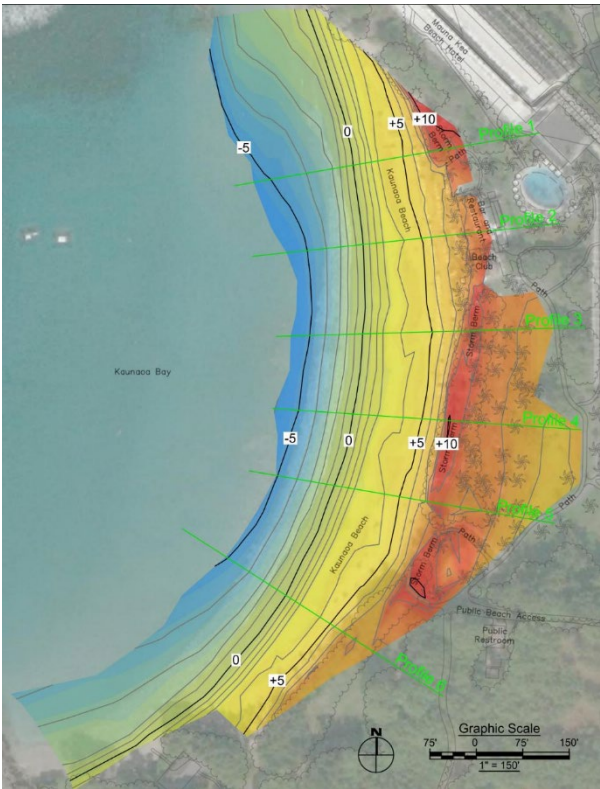
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY	
		1	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Hilo Harbor Breakwater Improvements – Basis of Design Hilo, Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2024	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
U.S. Army Corps of Engineers	Ben Berridge – Cardno GS	808-476-0067	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
The Hilo Harbor breakwater is an approximately two-mile-long rubble mound rock structure that protects inner Hilo Bay's port facilities from direct wave exposure. Recent inspections of the Hilo breakwater have found areas of possible damage, mostly limited to local areas along the structure. Multiple visual inspections of the breakwater were conducted as part of the annual Project Condition Surveys (PCS), which were performed by a mix of USACE and Sea Engineering, Inc. (SE) inspection teams in 2015, 2016, 2017, 2018, 2020, and 2021. Observed irregularities were found to include displaced armor units, attrition of supportive core stone (hollowing out of core), structure slumping, and excessive settling. As a result of the inspections, repairs have been recommended in numerous locations identified along the breakwater and vary in size from very localized to hundreds of feet in length.   In support of the need for repairs to the breakwater, SE was contracted by Cardno GS and the U.S. Army Corps of Engineers to develop, analyze, organize and summarize all necessary design conditions, that will constitute an updated Basis of Design (BoD). This project won the 2023 ASCE OCEA Award for Best Studies and Research Project – Future Stability and Adaptation Under Sea Level Rise at Hilo Breakwater. Cost: \$381,189			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY	
		2	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Laupahoehoe Harbor Breakwater Repair Basis of Design Laupahoehoe, Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2023	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
U.S. Army Corps of Engineers	Cardno GS, Inc. – Ben Berridge	808-476-0067	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
Laupahoehoe Harbor is located on the Hamakua Coast on the northeast side of the Island of Hawaii, approximately 25 miles north-northwest of Hilo. The facility includes a boat launch ramp and protective, 200-foot-long breakwater that was built in 1988. The usability of the boat ramp has decreased since the facility was built and the breakwater has lost effectiveness in reducing wave energy at the boat ramp, decreasing functionality of the harbor. In 2019, USACE retained the services of Nagamine Okawa Engineers, Inc. and Sea Engineering, Inc. (SE) to evaluate the condition of the existing breakwater, develop and compare alternative repair plans, and develop conceptual repair plans and rough order of magnitude construction costs under the U.S. Army Corps of Engineers (USACE) Operations & Maintenance (O&M) program. In 2020, USACE retained the services of Cardno GS, Inc., and SE to develop the repair plan through final design. Cost: \$141,640		 	
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

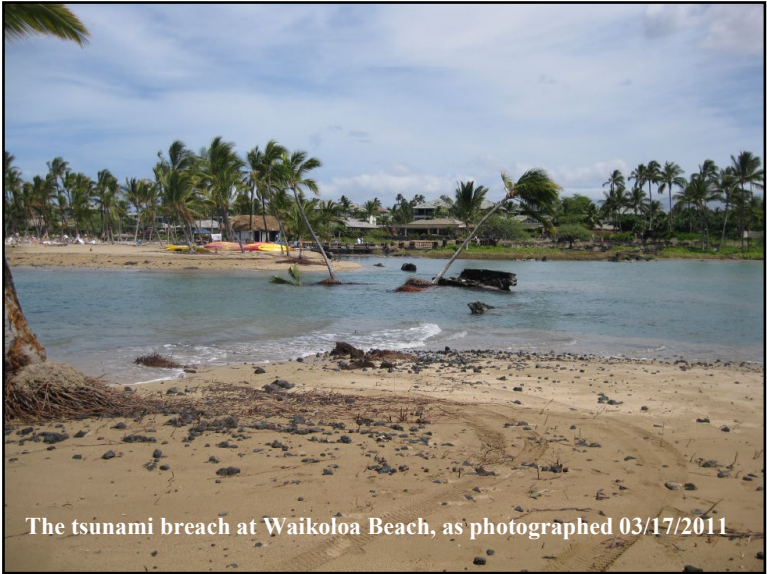
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		3	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Hawaii DOT Scour Critical Bridge Project – Bathymetry and Underwater Inspection Hawaii Island, Kauai, Oahu, HI		PROFESSIONAL SERVICES	CONSTRUCTION
		2015 to present	n/a
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
State of Hawaii, DOT	Kai Hawaii – Mike Hunneman	808-533-2210	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
The State Department of Transportation is assessing up to 27 bridges across the State for possible scour repairs. In support of this effort, Sea Engineering completed bathymetry surveys and underwater inspections of 5 bridges, including Kolekole Bridge and Paheehee Bridge on Hawaii Island, Wailua River Bridge and Wailua River Plantation Bridge on Kauai, and the Waimea River Bridge on Oahu. The underwater inspections were conducted by a three-man dive team using surface supplied air. Sea Engineering was also responsible for obtaining all required permits for the proposed repair activities.			
			
 			
Cost: 319,655			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering

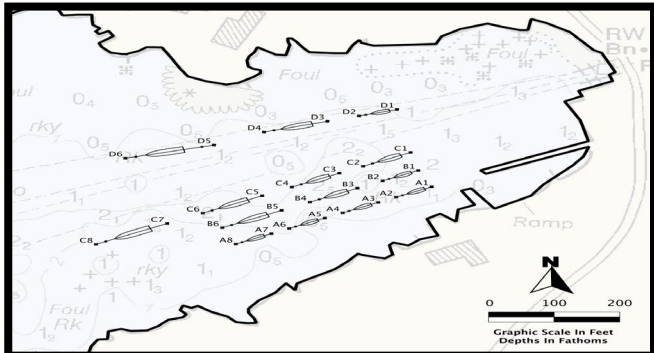
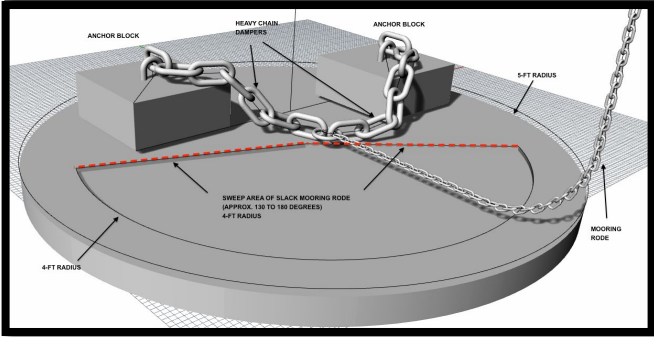
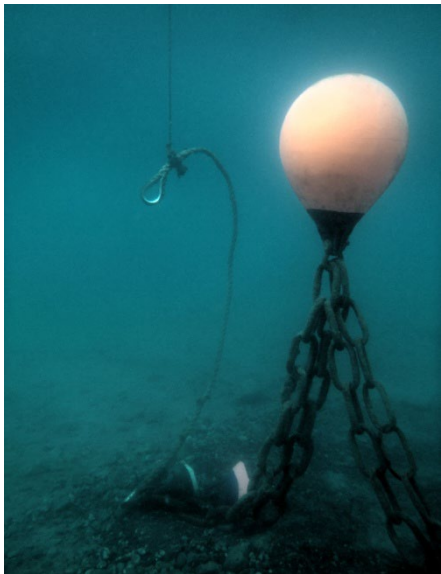
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		4	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Pohoiki Boat Ramp Repair Relocation Study Puna District, Island of Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2019	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
State of Hawaii, DLNR	Edward Underwood (DOBOR)	808-587-1966	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
Hawaii Island's Kilauea Volcano lower East Rift Zone began erupting on May 3, 2018, ultimately transforming the landscape of the Lower Puna district on the southeast coast of the island. When the eruption stopped in August 2018 lava had covered more than 13 square miles of residential, farm, industrial and natural lands, and created some 875 acres of new land extending into the ocean. At Pohoiki Bay, site of the State DLNR-Division of Boating and Ocean Recreation (DOBOR) Pohoiki Boat Ramp facility, large volumes of volcanic debris (rocks, cobbles and sand) began to fill in the bay and the vicinity of the boat ramp. By the spring of 2019 the bay was filled, and the boat ramp was land locked by a 200-foot-wide black sand and cobble beach.  Sea Engineering was contracted by the Department of Land and Natural Resources, Division of Boating and Ocean Recreation, to prepare a concept screening study for re-opening the existing ramp facility or relocating it to an alternate site. The work involved coastal engineering to develop concepts for evaluation, and development of a rough-order-of-magnitude (ROM) construction cost estimate for the two concepts. Planning, design and permitting costs were also estimated.  Cost: \$43,960			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY 5	
21. TITLE and LOCATION <i>(City and State)</i> Waikoloa Beach Management Plan Waikoloa, Hawaii		22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION 2017 to present	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER		b. POINT OF CONTACT NAME	
Waikoloa Beach Association		Scott Head	
		c. POINT OF CONTACT TEL	
		808-886-1000	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
Waikoloa Beach Resort is located on the west coast of the island of Hawaii, and the southern portion encompasses the shoreline of Anaeohomalū Bay. During a tsunami in March 2011 the beach was severely eroded, a 200-foot-wide breach was created through the beach into the fishpond depositing sand in the pond, and much of the fishpond rock wall which acted as a backstop for the beach was destroyed. Following completion of repairs, the beach has been relatively stable, and the additional beach crest height has reduced wave overtopping. To ensure the continued stability of their beach, and address concerns about sea level rise, the Waikoloa Land Company and Waikoloa Beach Association have contracted Sea Engineering to develop a long-term plan for management and maintenance of their valuable beach resource. Work includes Beach change monitoring, coastal assessment and preliminary concept plan, offshore sand survey, development of a detailed beach maintenance/management plan, environmental assessment and permit application, and detailed design and construction documents.			
			
Cost: \$12,560			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

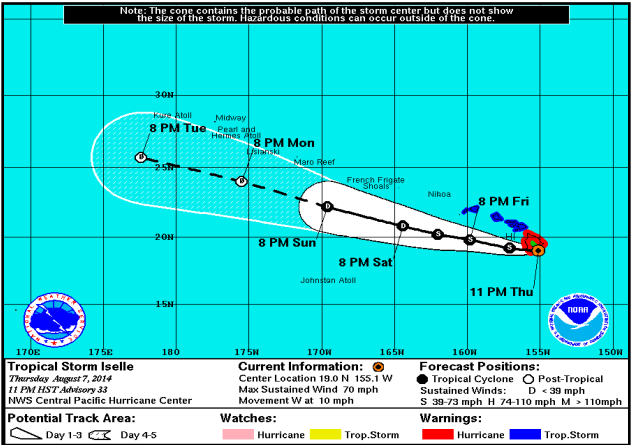
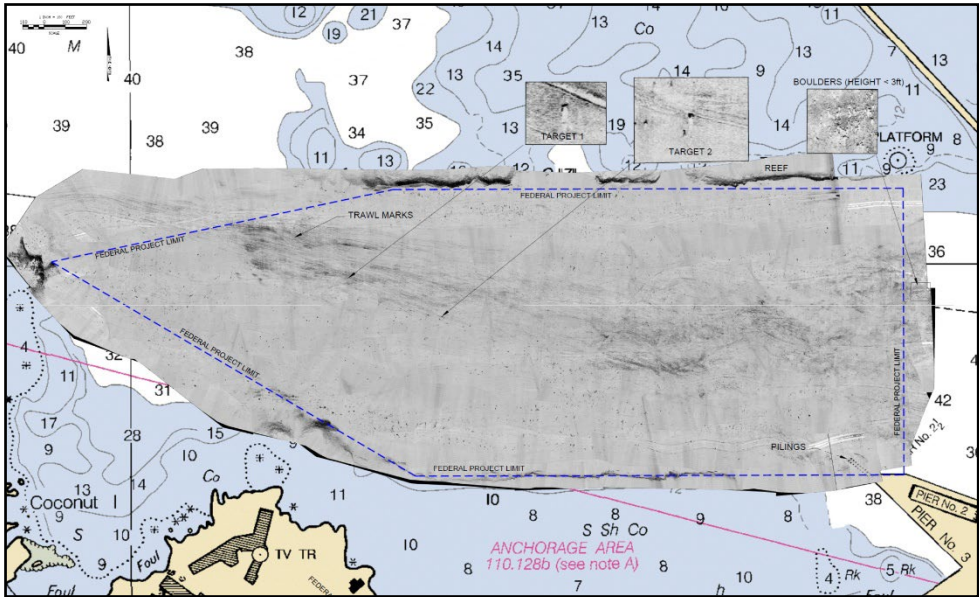
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		6	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Mauna Kea Shoreline Restoration Project Kohala Coast, Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2018	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
Hookuleana LLC – Prince Resorts Hawaii	Peter Young	808-226-3567	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
The Mauna Kea Resort on Hawaii Island is planning improvements to their shoreline and hotel. Sea Engineering has been contracted to conduct detailed oceanographic and shoreline investigations to support implementation of these improvements. Work tasks included:		 1. Wave analyses including deepwater wave climate, extreme deepwater wave height, numerical wave modeling of wave transformation to shallow water, wave runup, analysis of a particular extreme wave event that resulted in backshore flooding, and sea level rise impacts. 2. Site investigations including beach profile measurements, beach topographic survey, sand sampling and analysis, and assessment of coastal processes. 3. Development of a dune restoration plan based on regional, typical dune morphologies. Sea level impacts were considered, and a design report prepared.	
			
Cost: \$81,855			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

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		7	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Project Conditions Survey Inspections of Federal Coastal Navigation Structures Hilo, Kawaihae, Laupahoehoe, Pohoiki		PROFESSIONAL SERVICES	CONSTRUCTION
		2015, 2016, & 2017	n/a
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
USACE	Mike Hunneman – KAI Hawaii	808-533-2210	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
Sea Engineering was contracted to perform inspections of 24 federal coastal navigation structures (CNS) throughout Hawaii, Guam, Rota, and American Samoa operated and maintained by the U.S. Army Corps of Engineers (USACE), Pacific Ocean Division (POD), Honolulu District (POH). The purposes of the inspections were to verify the current condition of the structures, locate areas of concern on each structure, and identify and recommend future maintenance requirements. Specific work tasks included:			
		Kawaihae Small Boat Harbor	
1) Categorizing each CNS into distinct reaches according to type of construction (rubble-mound, concrete armor, sheet pile, etc.); unique structural feature (head, trunk, root, etc.); and cross-sectional features (crest elevation, side slopes, toe protection, etc.).		2) Conducting inspections by physically walking the length of each CNS and inspecting areas including the crest, slopes, and toe of the structure. Damage was located with accurate GPS, described and photographed.	
		3) Preparing draft and final post-inspection reports that summarize the findings documented during the site inspection.	
		4) Preparing a plan-view map including the aerial imagery of the project site, stationing, structure components, CEPD benchmark, and the GPS location of each finding recorded during the site inspection.	
Cost: \$131,994			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

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		8	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Anaehoomalu Bay Tsunami Damage Repair Anaehoomalu, Waikoloa, South Kohala, Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2016	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
Waikoloa Beach Association	Eleanor Mirikitani	808-886-1000	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<u>Scope:</u> On March 11, 2011, a tsunami generated by a massive earthquake in Japan struck the Hawaiian Islands and caused significant damage along portions of the State's shoreline. Waikoloa Beach on the island of Hawaii was directly impacted, with inundation reaching the backshore historical fishpond, subsequently destroying the pond wall and creating a 200-foot-wide breach through the beach fronting the pond. Sea Engineering, Inc. was contracted to obtain permits and do emergency repair work to close the breach, and this work was completed in July of 2011. A sand-filled geotextile tube barrier was installed to close the gap in the beach. The emergency repair work was accomplished as an intermediate step to protect the fishpond while a long-term, permanent repair/restoration plan for the pond and beach can be developed. Permanent repairs would include rebuilding the fishpond wall and restoration of the beach to its pre-tsunami condition. Cost: \$235,000  The tsunami breach at Waikoloa Beach, as photographed 03/17/2011  March 14, 2012 Shoreline			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY	
		9	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Keauhou Bay Offshore Mooring Design Keauhou Bay, North Kona, Island of Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2013	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
State of Hawaii – DLNR	Eric Yuasa	808-327-9585	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
Scope: Sea Engineering Inc., was contracted by the State of Hawaii Division of Boating and Ocean Recreation (DOBOR), DLNR to redesign the mooring layout and mooring assembly design for Keauhou Bay, Hawaii. The purpose is to more effectively accommodate vessels and improve mooring assembly design and vessel and user safety. The work included the following: - Detailed site investigation to map existing moorings and bottom composition - Design of a gravity mooring anchor system suitable for the variable, rocky, rubbly substrate in the bay		 	
		- Design of a mooring layout that maximizes vessel capacity in a safe manner - Acquisition of a Department of the Army permit for the mooring buoys In total, the proposed moorings will accommodate 14 vessels ranging from 30 to 60 feet in length. Mooring locations have been selected to avoid areas with high benthic marine life as far as practicable. The mooring plan calls for six 30ft vessels, three 40ft vessels, three 50ft vessels, and two 60ft vessels.	
Cost: \$50,700			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering

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		10	
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Hilo WWTP Outfall Inspection Hilo, Hawaii		PROFESSIONAL SERVICES	CONSTRUCTION
		2024, 2018, 2012, 2011	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL	
County of Hawaii Wastewater	Curtis Bailey	808-961-8338	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
Sea Engineering, Inc. (SE) was contracted by the Hawaii County Wastewater Division to perform an underwater inspection of the Hilo Wastewater Treatment Plant (WWTP) outfall. The purpose of the inspection was to satisfy requirements of the U.S. Environmental Protection Agency Administrative Order. SE performed inspections on the outfall in 1987, 1990, 2001, 2005, 2011, 2012, 2018 and 2024. The inspection was conducted by a five-man dive team using SCUBA and covered the submerged length of the outfall. Stationing was established by dropping orange plastic markers along the outfall and video was recorded along the entire length of the outfall.   To help identify any leaks from the pipe, Bright Dyes® fluorescent yellow/green tracer dye was injected into the pipe through a manhole located on land near the entry point of the pipe into the ocean. No leaks were detected along the length of the outfall. SE is scheduled to perform this upcoming inspection in 2024. Cost: \$48,995			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Sea Engineering, Inc.	Waimanalo, Hawaii	Coastal/Ocean Engineering

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21. TITLE and LOCATION <i>(City and State)</i> Post-Storm Hydrographic Survey of Hilo Harbor, Island of Hawaii Hilo, Hawaii		22. YEAR COMPLETED <table border="1" style="width: 100%;"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION</td> </tr> <tr> <td style="text-align: center;">2015</td> <td style="text-align: center;">n/a</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION	2015	n/a			
PROFESSIONAL SERVICES	CONSTRUCTION									
2015	n/a									
23. PROJECT OWNER'S INFORMATION										
a. PROJECT OWNER USACE-POH/AECOM		b. POINT OF CONTACT NAME Jerry Matsuda (AECOM)								
		c. POINT OF CONTACT TEL 808-356-5370								
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>										
<u>Scope:</u> Tropical Storm Iselle hit the east side of Hawaii Island at approximately 11:00 pm on August 7, 2014, with near hurricane force winds of 70 mph. Concerns that the Hilo Harbor channel would be compromised by sunken debris or other obstructions due to the effects of the storm prompted harbor closure until a hydrographic survey could be completed to verify that the channel was clear of obstacles. Sea Engineering, Inc. (SE) was notified at approximately noon on August 7, 2014, that a survey would be necessary the following day at Hilo Harbor. Two survey engineers from Sea Engineering with equipment flew to Hilo mid-morning on August 8 to conduct the survey. The survey was successfully completed, and results were communicated to the USACOE-POH at 7:00 pm on August 8, 2014. The Harbor was immediately re-opened.										
										
										
		Scan sonar mosaic of Federal Project Area, Hilo Harbor								
Cost: \$15,000										
<table border="1" style="width: 100%;"> <tr> <td rowspan="2" style="text-align: center;">  </td> <td>(1) FIRM NAME</td> <td>(2) FIRM LOCATION <i>(City and State)</i></td> <td>(3) ROLE</td> </tr> <tr> <td>Sea Engineering, Inc.</td> <td>Waimanalo, Oahu, Hawaii</td> <td>Coastal/Ocean Engineering</td> </tr> </table>					(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering
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	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering							

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		12								
21. TITLE and LOCATION <i>(City and State)</i>		22. YEAR COMPLETED								
Laupahoehoe Boat Ramp Repair Hawaii (Big Island)		PROFESSIONAL SERVICES	CONSTRUCTION							
		2010								
23. PROJECT OWNER'S INFORMATION										
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TEL								
County of Hawaii Dept. of Parks and Recreation	James Komata	(808) 961-8531								
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>										
<u>Scope:</u> Laupahoehoe Park is located on the Hamakua Coast on the northeast side of the Island of Hawaii, approximately 25 miles north-northwest of Hilo. The park contains a boat launch ramp facility and protective 250-foot-long breakwater built in 1988. The site is exposed to rough trade wind seas and north swells, and the condition of the boat ramp has deteriorated. In the summer of 2009, the launch ramp was closed due to hazardous conditions, including erosion of deep grooves in the ramp surface, exposed reinforcing rebar, and loss of traction. Sea Engineering, Inc. (SE) and Arnold T. Okubo & Associates were contracted by the County of Hawaii to investigate site conditions of the ramp, design repairs to the ramp, prepare the necessary environmental and permit documents, and provide engineering support through construction. Cost: \$200,000										
 										
<table border="1" style="width: 100%;"> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">  </td> <td>(1) FIRM NAME</td> <td>(2) FIRM LOCATION <i>(City and State)</i></td> <td>(3) ROLE</td> </tr> <tr> <td>Sea Engineering, Inc.</td> <td>Waimanalo, Oahu, Hawaii</td> <td>Coastal/Ocean Engineering</td> </tr> </table>					(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE							
	Sea Engineering, Inc.	Waimanalo, Oahu, Hawaii	Coastal/Ocean Engineering							

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS													
26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)											
		1	2	3	4	5	6	7	8	9	10	11	12
David Smith, P. E.	Coastal Engineer	X	X			X	X	X					
Chris Goody, P.E.	Ocean Engineer	X	X						X	X			
Chris Conger	Project Manager			X		X	X			X	X		X
Marc Ericksen	Project Manger			X							X	X	X
Ian Hardy	Ocean Engineer	X	X								X		
Morgan Stephenson	Ocean Engineer		X	X	X		X	X					
29. EXAMPLE PROJECTS KEY													
NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)												
1	Hilo Harbor Breakwater Improvements – Basis of Design												
2	Laupahoeohoe Harbor Breakwater Repair Basis of Design												
3	Hawaii DOT Scour Critical Bridge Project												
4	Pohoiki Boat Ramp Repair Relocation												
5	Waikoloa Beach Management Plan												
6	Mauna Kea Shoreline Restoration Project												
7	Project Conditions Survey Inspections of Federal Coastal Navigation Structures												
8	Anaehoomalu Bay Tsunami Damage Repair												
9	Keauhou Bay Offshore Mooring Design												
10	Hilo WWTP Outfall Inspection												
11	Post-Storm Hydrographic Survey Hilo Harbor												
12	Laupahoeohoe Boat Ramp Repair												

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS REQUIRED.

A. SPECIALIZED EXPERIENCE OF THE FIRM

Sea Engineering, Inc. (SE) specializes in coastal and ocean engineering, and marine environmental services. Experienced staff is available to undertake a wide range of projects. With experience in Hawaii, California and throughout the Pacific Basin, SE can respond rapidly to project needs, drawing on an in-house database and the knowledge gained from extensive work in the different island groups.

Coastal Engineering: Marina and harbor design; coastal planning; beach nourishment design; dredging planning and analysis; design and evaluation of coastal structures for erosion control, shore protection and navigation; storm inundation analyses; beach erosion and coastal processes studies. Sea Level Rise (SLR) analysis and adaptation measures.

Numerical Modeling: State-of-the-science 2- and 3-dimensional hydrodynamic and transport modeling for applications including sediment transport; contaminant transport; water quality; beach response; and discharges into marine and freshwater environments. Modeling of deep-water to nearshore wave transformation using both 2- D steady-state models and 3-D fully non-linear Boussinesq models. High resolution computational fluid dynamics (CFD).

Ocean Engineering: Determination of engineering oceanographic design criteria; storm wave propagation and wave-driven circulation modeling; armor design; measurement and analysis of waves, tides currents and other parameters for planning and design; submarine pipeline and cable route selection and conceptual design.

Marine Environmental: Preparation of Environmental Assessments and Impact Statements; preparation of Federal, State and City permit applications for marine projects; measurement and analysis of sediment and contaminant transport and water quality; turbidity analysis; water quality monitoring; analysis and assessment of the impact of coastal facilities on the marine environment; oceanographic studies; search and recovery of hazardous materials. SLR modeling and potential impact studies.

Marine Construction Services: Fully equipped commercial diving locker to provide diving services in support of the construction and repair of pipelines, wharves, cable landings, breakwaters, offshore oil moorings, and other coastal and offshore marine facilities. Repair and construction of waterfront structures, including wharves, piers, intakes, small boat ramps and other structures.

Hydrographic and Geophysical Surveys: Fully automated hydrographic and geophysical survey capability including bathymetry, side scan sonar, subbottom profiling, UXO detection, and ROV surveys. Surveys tasks have included dredge monitoring and payment, dredge design, cable route reconnaissance and selection, environmental assessment, bottom mapping, object location, and sand deposit mapping.

Logistical Support: Support for oceanographic or research projects includes a fully equipped shop on the Honolulu Harbor waterfront and vessels ranging from 17 to 84 feet long.

b. PROFESSIONAL QUALIFICATIONS OF STAFF TO BE ASSIGNED TO THE PROJECTS

SE principals, engineers and scientists have graduate level degrees in ocean engineering and coastal geology. Most employees have worked for the firm for over 10 years. Senior level managers and engineers have worked for SE for over 20 years. Resumes of key personnel are included in this submittal.

c. PAST PERFORMANCE ON SIMILAR PROJECTS

SE has completed numerous contracts for the State of Hawaii and County of Hawaii on the Big Island. Sea Engineering, Inc. projects are completed within budget, on schedule and with the highest attention to quality control. Representative projects SE has worked in Hawaii County and for the State of Hawaii include the following projects:

<u>Project</u>	<u>Date</u>	<u>Firm</u>
Hawaii DOT Scour Critical Bridge Project – Bathymetry & Underwater Inspections, and Permitting	2015 to present	State of Hawaii DOT, KAI Hawaii
Waikiki Beach Restoration	2016 to present	State of Hawaii, DLNR
Lahaina SBH and Mala Boat Ramp Maintenance Dredging	2023 to present	State of Hawaii, DLNR
Windward Highway Shore Protection	2021 to present	State of Hawaii, DOT, AECOM
Kamehameha Highway Shoreline Erosion Mitigation	2020 to present	State of Hawaii, DOT, AECOM
Wailoa Small Boat Harbor Hydrographic Survey	2024	State of Hawaii, DLNR & Element Environmental
Kona Village Resort Beach Restoration	2024	Kona Village Resort
Hilo Harbor Breakwater Improvements – Basis of Design	2024	USACE, Cardno GS
Laupahoehoe Harbor Repair Design	2023	USACE, Cardno GS
Lahaina Small Boat Harbor and Mala Boat Ramp Maintenance Dredging	2023	State of Hawaii, DLNR
Regional Shoreline Strategy Scoping Study for OPSD	2023	State of Hawaii, Office of Planning & Sustainable Development, Tetra Tech
Hilo WWTP Outfall Inspection	2018 & 2023	County of Hawaii, Wastewater Division
Laupahoehoe Marine Biological Surveys & Environmental support	2022	USACE, Cardno GS
Kalaeloa Fuel Pier Development	2021	State of Hawaii DOT, Mitsunaga & Associates
Royal Hawaiian Groin Replacement	2020	State of Hawaii, DLNR
Waikoloa Beach Management Plan	2020	Waikoloa Beach Association
Harbors Oahu District Baseyard Improvements	2019	State of Hawaii DOT, RM Towill Corp
Pohoiki Boat Ramp Repair -Relocation Study	2019	State of Hawaii, DOBOR
Pier 28-33 Hydrographic Survey Honolulu Harbor	2019	State of Hawaii DOT, Westin Solutions
Pohoiki Boat Ramp Repair Relocation	2019	State of Hawaii, DOBOR
Hilo Ocean Outfall Inspection	2018	County of Hawaii
Laupahoehoe Harbor Breakwater Repair	2018	USCOE, Nagamine Okawa, Engineers,
Mauana Kea Shoreline Restoration Project	2018	Hookuleana LLC, Prince Resorts Hawaii
Kahului Harbor Pier 2 High Spot Hydrographic Survey	2018	State of Hawaii DOT, Control Point Surveying
Anaehoomalu Bay Tsunami Damage Repair	2016	Waikoloa Beach Association

d. CAPACITY TO ACCOMPLISH WORK

SE has a proven capacity for accomplishing work on time and on budget. We have participated in numerous design projects which have been successfully constructed. We have an experienced staff available to undertake a wide variety of coastal-related engineering projects, and our projected workload will permit timely accomplishment of future work.

e. KNOWLEDGE OF THE LOCALITY

SE is located in Honolulu, Hawaii. We have performed engineering studies throughout the Pacific Basin, including all the main Hawaiian Islands, Guam, the Northern Marianas, American Samoa, the Marshall Islands, Okinawa, the Federated States of Micronesia, the Republic of Palau, as well as Alaska and California. SE has considerable “local” knowledge for the Pacific region, and an extensive in-house database for the Pacific area.

Sea Engineering, Inc. is a Small Business - 541330 Exception 3 – Marine Engineering & Naval Architecture and 237990 – Other Heavy and Civil Engineering and Construction.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

June 25, 2025

41. NAME and TITLE (*Print or type*)

Chris Conger, Vice President

ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER <i>(if any)</i>		
				County of Hawaii FY 2025-2026		
PART II – GENERAL QUALIFICATIONS						
<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>						
2a. FIRM (OR BRANCH OFFICE) NAME				3. YEAR ESTABLISHED	4. DUNS NUMBER	
SEA ENGINEERING, INC. 				1973	DUNS#: 066273905 CAGE: 0H711	
2b. STREET				5. OWNERSHIP		
504 N. Nimitz Hwy						
2c. CITY	2d. STATE	2e. ZIP CODE		a. TYPE		
Honolulu	HI	96817		Corporation		
6a. POINT OF CONTACT NAME and TITLE				b. SMALL BUSINESS STATUS		
Chris Conger, Vice President				Small Business - Engineering Services, Marine Engineering		
6b. TELEPHONE NUMBER		6d. E-MAIL ADDRESS		7. NAME OF FIRM <i>(If block 2a is a branch office)</i>		
(808) 536-3603		cconger@seaengineering.com				
8a. FORMER FIRM NAMES(S) <i>(If any)</i>				8b. YR. ESTABLISHED	8c. DUNS NUMBER	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index No. <i>(see below)</i>
		(1) Firm	(2) Branch			
01	Administrative	5	0	B02	Bridges	1
12	Civil Engineer	4	0	C05	Coastal Engineering	6
30	Geologist	3	0	D04	Design-Build	2
-	Ocean Engineer	7	1	E08	EIS	5
-	Coastal Engineer	6	0	H01	Harbors, jetties, etc.	3
44	Oceanographer	1	0	H13	Hydrographic Surveying	3
23	Environmental Engineer	1	0	O02	Oceanographic Engineering	4
42	Mechanical Engineer	1	0	R04	Marinas	1
				R11	Rivers, Canals, Waterways	1
	Total	28	1	S10	Surveying, mapping	2
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
<i>(Insert revenue index number shown at right)</i>						
a. Federal Work	5	1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million		6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater		
b. Non-Federal Work	5					
c. Total Work	6					
12. AUTHORIZED REPRESENTATIVE						
The foregoing is a statement of facts.						
a. SIGNATURE				b. DATE		
				June 25, 2025		
c. NAME OF AUTHORIZED <i>(Print or type)</i>				d. TITLE <i>(Print or type)</i>		
Chris Conger				Vice-President		



Sea Engineering, Inc.

504 N. Nimitz Hwy • Honolulu, Hawaii 96817 Phone: (808) 536-3603 • Website: www.seaengineering.com

SE CORPORATE REFERENCES Professional Services
(July 2025 to June 2026)

Ms. Elaine Morisato, Civil Engineer
Department of Design & Construction
650 So. King St., 11th Floor
Honolulu, HI 96813

Mr. Ross Tanimoto, Deputy Director
City & County of Honolulu, Dept. of Environmental Services
1000 Uluohia St., Suite 308
Kapolei, Hawaii 96707

Mr. Mike Hunneman, Vice President
KAI Hawaii
50 S. Beretania Street, #C-119C
Honolulu, HI 96813
Phone: (808) 533-2210

Mr. Rick Heltzel, President
Healy Tibbitts Builders, Inc.
99-994 Iwaena Street, #A
Aiea, Hawaii 96701
Phone: (808) 487-3664

Mr. Michael Cain, Administrator
Department of Land & Natural Resources
Office of Conservation and Coastal Lands
Kalanimoku Building
1151 Punchbowl St., Rm 131
Honolulu, Hawaii 96813
Phone: (808) 587-0377



SE AWARDS:

- 2025 ACEC Engineering Excellence Honor Award – Optimizing Breakwater Repairs for a Changing Climate
- 2024 ASCE Best Transportation Project - Single-Platform Integrated, Simultaneous Multibeam Bathymetric and LiDAR Topographic Data Acquisition System – Kaumalapau Harbor, Emergency Survey
- 2023 GCA Build Hawaii Awards – USS Arizona Memorial Shoreside Dock Replacement
- 2023 ASCE OCEA Award for Best Studies and Research Project – Future Stability and Adaptation Under Sea Level Rise at Hilo Breakwater
- 2022 ASBPA Robert L. Weigel Award – Iroquois Point Beach Nourishment and Stabilization
- 2022 ASBPA Best Restored Beach – Waikiki Beach Maintenance
- 2021 ASCE Project of the Year, Region 8. Less than \$10M Royal Hawaiian Groin Replacement
- 2020 ASCE Best Small Project – Punaluu Beach Park Emergency Erosion Protection Design-Build
- 2020 GCA Build Hawaii Awards – GRAND AWARD – U.S.S. Arizona Memorial & Floating Dock Damage Repairs
- 2020 GCA Build Hawaii Awards – EXCELLENCE AWARD – Kewalo Basin Harbor Improvements
- 2020 GCA Build Hawaii Awards – MERIT AWARD – Haleiwa Beach Park Emergency Stabilization
- 2020 ASCE Best Special Project – Royal Hawaiian Groin Replacement & Engineering Services
- 2019 ASCE Best Research Project - Saipan Lagoon Hydrodynamic Study
- 2018 ASCE Best Large Project – Governor Eloy S. Inos Peace Park Puerto Rico, Saipan, CNMI
- 2014 ASBPA National Award - Best Restored Beach, Iroquois Point Beach, Oahu.
- 2012 ASCE Hawaii Best Special Project Award – Waikiki Beach Maintenance Project
- 2009 ASCE Hawaii Best Small Project Award – Analysis and Prediction of Waves and Surge in Kahului Harbor
- 2008 ASCE Hawaii Outstanding Civil Engineering Achievement Award for the Design of Kaumalapau Harbor Breakwater Modification
- 2006 U.S. Small Business Administration Administrator’s Award of Excellence Region IX Subcontractor

- 2004 ASCE Outstanding Civil Engineering Achievement Award for the Sewer Outfall Extension at Fort Kamehameha, Pearl Harbor, Oahu, Hawaii.