KA'A'AWA / HAU'ULA TOWN HALL MEETING #2 UPDATE

HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS

09/29/2023



MEETING OBJECTIVES

Update the Community on:

- Immediate Short-Term Projects
 - Hau'ula
 - Kalae'ō'io Beach
 - Ka'a'awa Stream Outfall
- Proposed Mid-Term Shoreline Erosion Mitigation Projects
 - Ka'a'awa Beach Park
 - KKPH (Ku'aloa, Ka'a'awa, Punalu'u, Hau'ula)
- Alternative Projects
 - Sandsaver Project
 - Dry Stack Wall

IMMEDIATE SHORT-TERM PROJECTS



Kalae'ō'io Beach

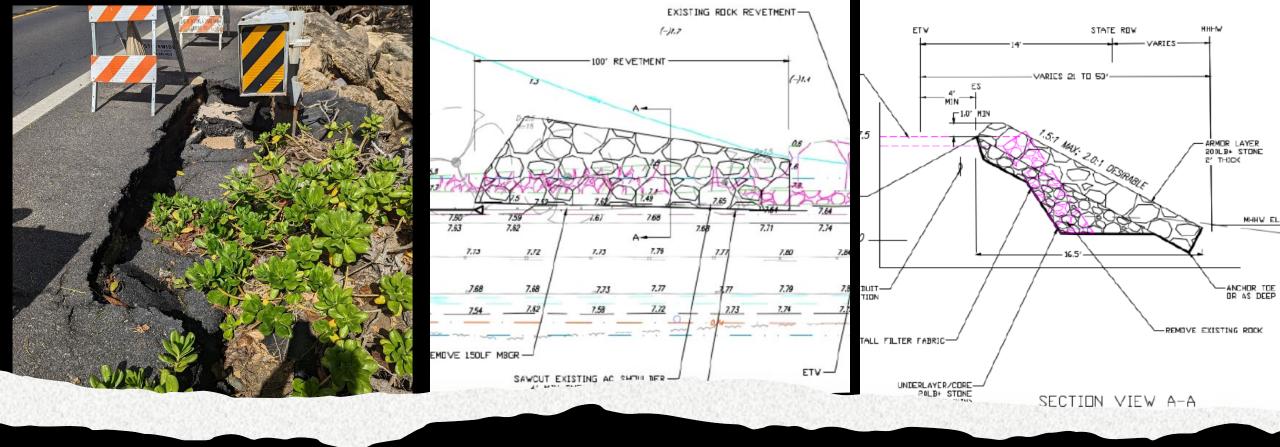
Hau'ula



Maintenance - Ka'a'awa Stream Outfall

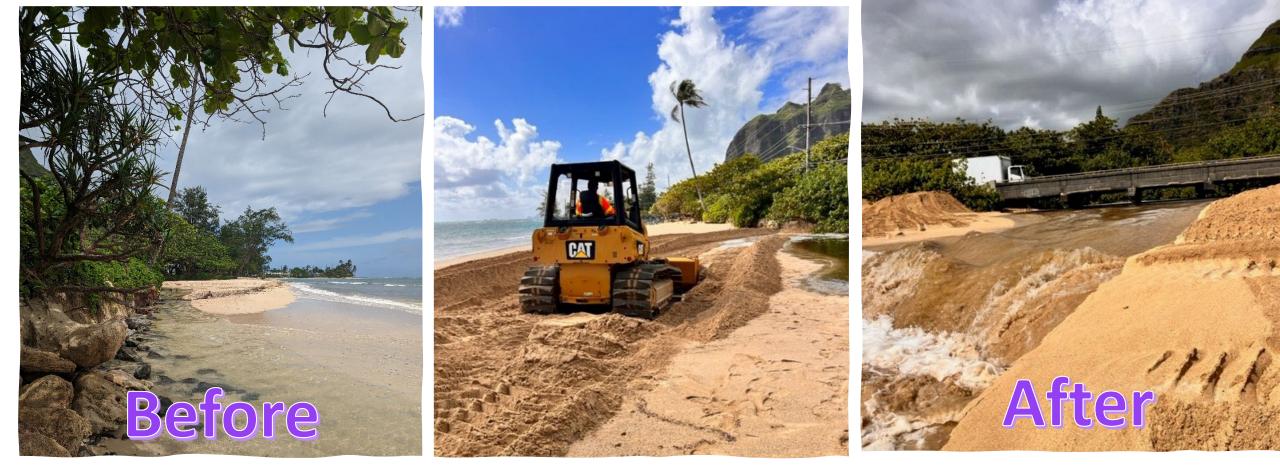


HAU'ULA – IN CONSTRUCTION RESUME WORK IN NOVEMBER



KALAE'Ō'IO BEACH

- Completed Design
- Construction Fall 2023
- Cost \$100k



KA'A'AWA STREAM OUTFALL CLEANUP

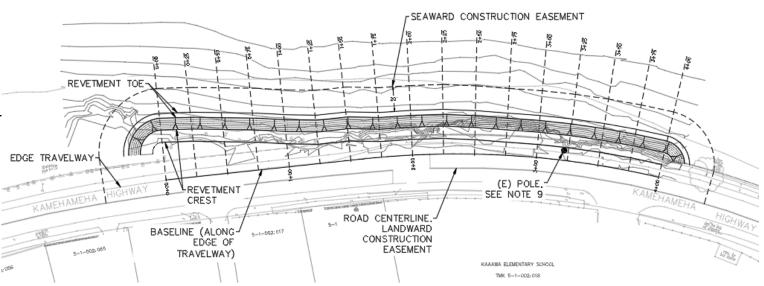
- HDOT Coordination with City
 - Work performed by City Division of Road Maintenance

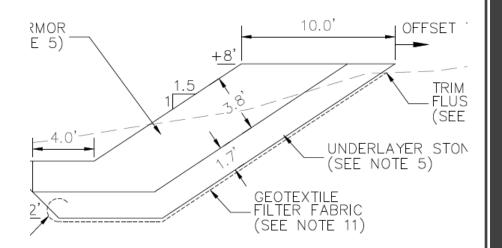
MID-TERM PROJECTS

Ka'a'awa Beach Park

KKPH







MID-TERM PROJECT: KA'A'AWA BEACH PARK

KA'A'AWA BEACH PARK - STATUS

- Scope of work:
 - To install approximately 500 LF of engineered rock revetment (25 years design life)
- Applied for a PROTECT Grant in August 2023 (\$3M)
- Status:
 - Roughly 50% design
 - Final EA-FONSI (Published June 16, 2022)
 - Pending Environmental Clearances
- Estimated Ready to Advertise: Spring 2024
- Estimated Cost: \$3M

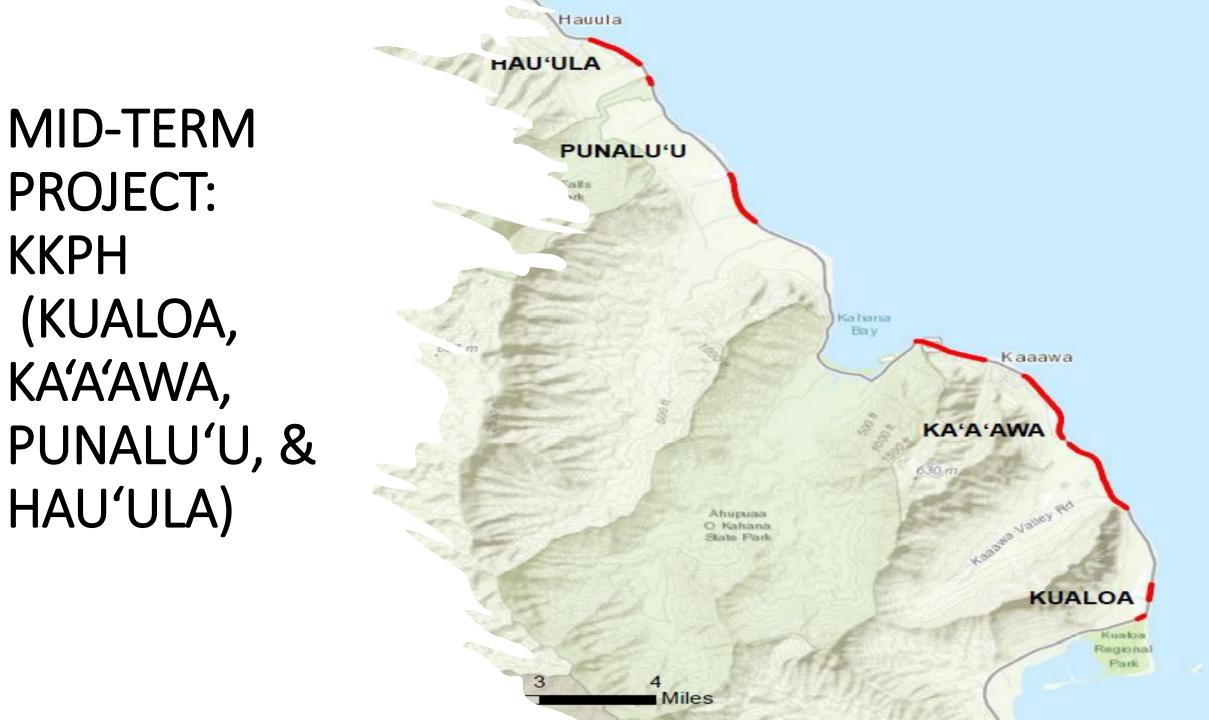
KA'A'AWA BEACH PARK - STATUS

| Completed/ Submitted | Topographic Survey Archaeological Literature Review & Field Inspection Archaeological Inventory Survey Marine Assessment Report Environmental Assessment (EA) HRS Chapter 6E Determination |
|-------------------------|---|
| In Progress | Section 106 Effect Determination Conservation District Use Application (CDUA)- Section 4(f) Permit NEPA Categorical Exemption Construction Plans |

KA'A'WA ELEMENTARY STUDENT PROJECT

- Working with school to engage students
- Students can help to mitigate erosion
- Ideas to explore:
 - Erosion education causes/types of, mitigation solutions, etc.
 - Plant native plants in Ka'a'awa
 - Community awareness



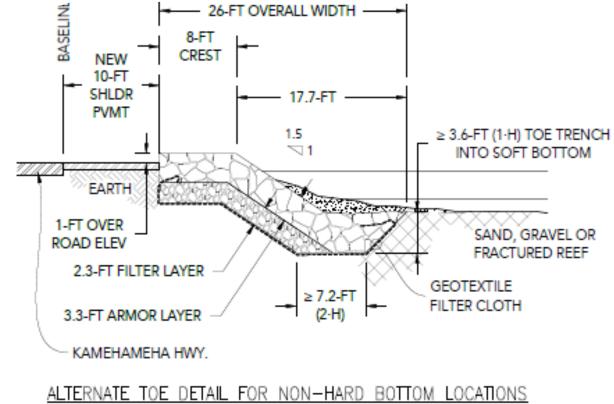


KKPH

KKPH

Revetment Alternative



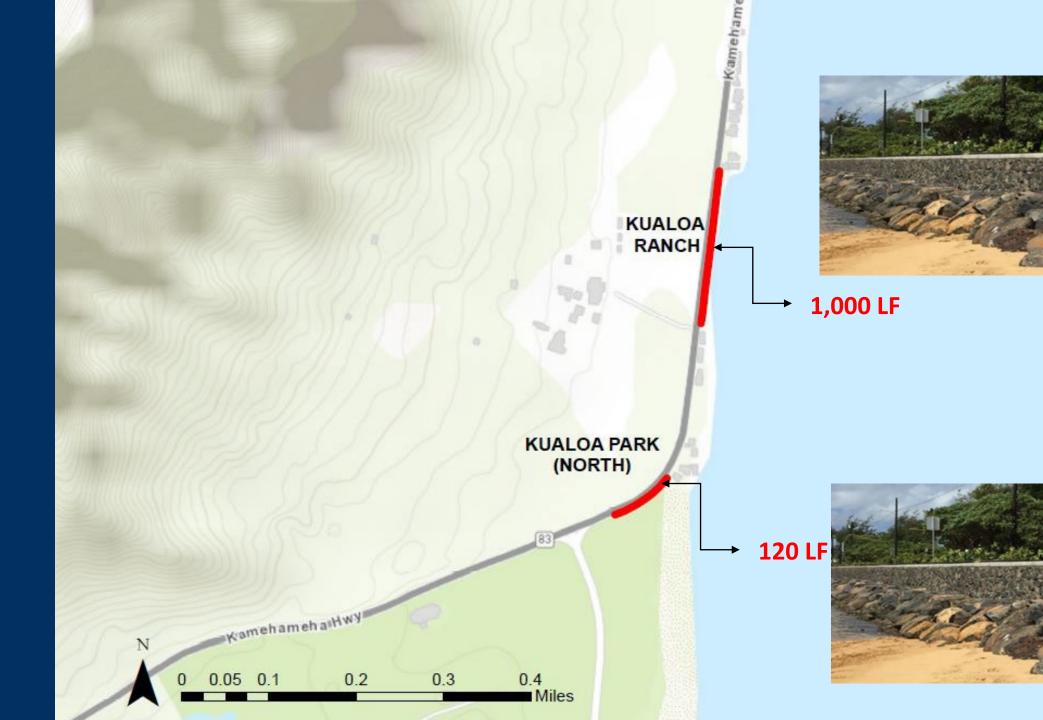


KKPH PREFERRED ALTERNATIVES

| Project Site | Preferred Alternative | Approx. Length (feet) |
|---|---|-----------------------|
| Kualoa Park | Hybrid Seawall with Stone Apron | 120 |
| Kualoa Ranch | Hybrid Seawall with Stone Apron | 1,000 |
| Kaoio Point to Ka'a'awa Stream | Rock Revetment | 4,600 |
| Ka'a'awa Stream to Ka'a'awa Beach Park | Rock Revetment | 1,450 |
| Kaʻaʻawa in the Vicinity of Puakenikeni Road | Rock Revetment | 1,700 |
| Ka'a'awa in the Vicinity of | Rock Revetment (North End) | |
| Crouching Lion | Hybrid Seawall with Stone Apron (South End) | 3,000 |
| Punalu'u South | Rock Revetment | 600 |
| Punalu'u North | Rock Revetment | 400 |
| Hauʻula | Rock Revetment | 2,500 |

Total = 15,370 feet ~ 3 miles

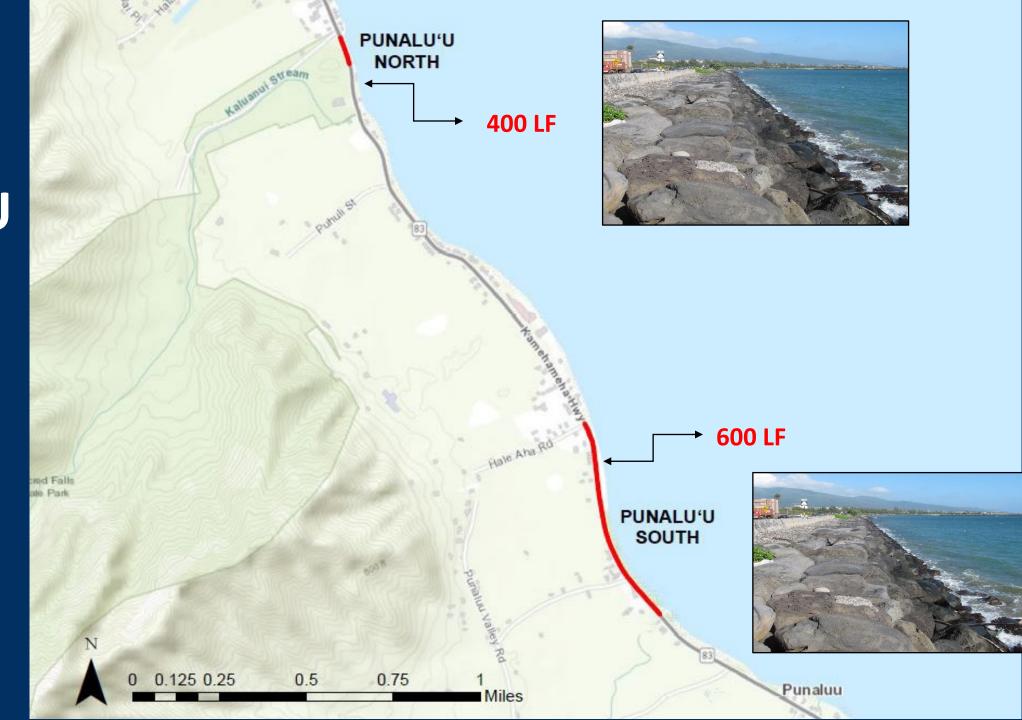
KUALOA PROJECT SITES



KA'A'AWA PROJECT SITES



PUNALU'U PROJECT SITES



HAU'ULA PROJECT SITE



KKPH – TIMELINE & COST

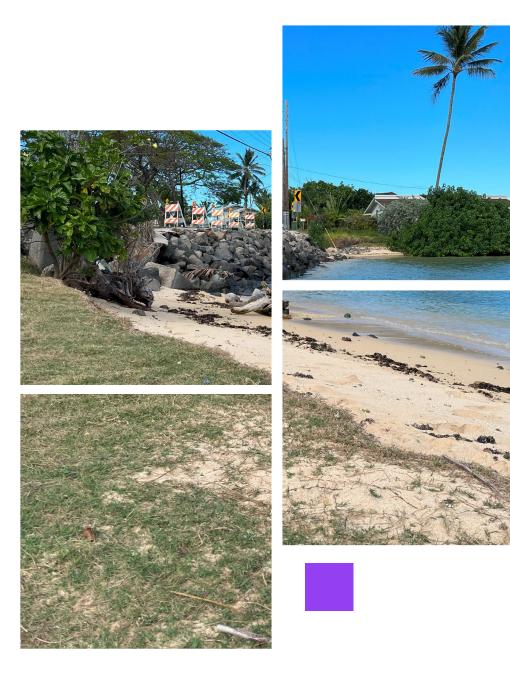
| Draft EA | Late 2023 | |
|--|------------------|--|
| Final EA-FONSI | Summer 2024 | |
| Environmental Permits & Federal Environmental Clearance | Fall 2025 | |
| Final Construction Plans | Spring 2026 | |
| Advertisement | Summer 2026 | |
| Phase Construction Duration | Fall 2026 - 2029 | |
| To minimize traffic disruption to the public | | |
| Preliminary Cost Estimate for Revetments \$120M | | |

KKPH - STATUS

| Completed/ Submitted | Topographic Survey Archaeological Literature Review & Field Inspection Basis of Design Marine Assessment Report Draft Cultural Impact Assessment | |
|-------------------------|--|---|
| In Progress | Draft Environmental Assessment (EA) | |
| | | - |

SandSaver Pilot Program

Kualoa, Oahu



Shoreline Monitoring



May 2022



May 2023



KUALOA - SANDSAVER PILOT

- Design: 60%
- Environmental Permitting and Clearance : Spring 2024
- Estimate Construction: Summer 2024
- Cost: \$750K

TRADITIONAL DRY STACK WALL

TRADITIONAL DRY STACK WALL

- Tentative Location: Vicinity of Kalae' Oio Beach Park
- Sidewalls were made high enough to accrete sand, yet not too high to cause a reflection of the longshore current
- Front wall is high enough to keep the outward current from taking out the sand, yet not too tall to cause reflection of the incoming wave
- Within a fringing reef that has longshore sediment transport from both sides and outward current channel area
- Schedule and Cost- TBD

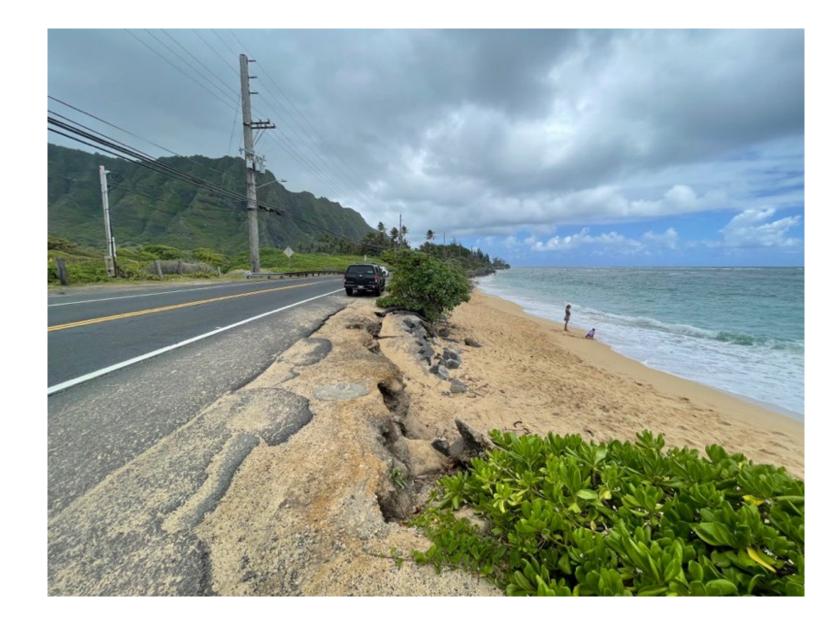
Kaaawa Beach (aiaka Ba 꿈 Elementary School Kalae Öllo Beach Park Kalae oto Beach Park

🔊 Kalae Oio

Bieach

MAHALO

http://hidot.hawaii.gov/ presentations



BACK UP



Typical Permits Needed for Shoreline Projects



| Permit / Approval | Agency |
|--|--|
| Nationwide Permit (NWP) #13 – Bank Stabilization | US Army Corps of Engineers (USACE), Honolulu District |
| National Environmental Policy Act (NEPA) Categorical Exemption (CE)/ Environmental Assessment/ Environmental Impact Statement | US Environmental Protection Agency (EPA) |
| Section 4F of the US Department of Transportation (DOT) Act | Federal Highway Administration (FHWA) |
| Section 7 of the Endangered Species Act (ESA) | National Marine Fisheries Service (NMFS), Pacific Island Regional Office and US Fish and Wildlife Service (USFWS), Pacific Islands Fish and Wildlife Office |
| Section 305, Essential Fish Habitat (EFH), of the Magnuson-Stevens Fishery Conservation and Management Act (MSA) | National Marine Fisheries Service (NMFS), Pacific Island Regional Office |
| Coastal Zone Management (CZM) Federal Consistency Concurrence | State Department of Business, Economic Development and Tourism (DBEDT), Office of Planning and Sustainable Development (OPSD) |
| Conservation District Use Permit (CDUP) | State Department of Land and Natural Resources (DLNR), Office of Conservation and Coastal Lands (OCCL) |
| Section 106 of the National Historic Preservation Act (NHPA) | State DLNR, State Historic Preservation Division (SHPD) |
| HRS 6E to determine if any significant historic properties would be affected | State DLNR, SHPD |
| HRS 195D to determine if any endangered species and critical habitat would be affected | State DLNR, Division of Aquatic Resources (DAR) and State DLNR, Division of Forestry and Wildlife (DOFAW) |
| Right-of-Entry (ROE) Permit to enter and work on State property | State DLNR, Land Division |
| Special Management Area (SMA) Permit | City and County of Honolulu (CCH) Department of Planning and Permitting (DPP) |
| Right-of-Entry (ROE) Permit to enter and work on CCH property | CCH Department of Parks and Recreation (DPR) |
| HEPA -Chapter 343 Exemption/ Environmental Assessment/ Environmental Impact Statement | Office of Environmental Quality Control (OEQC) |