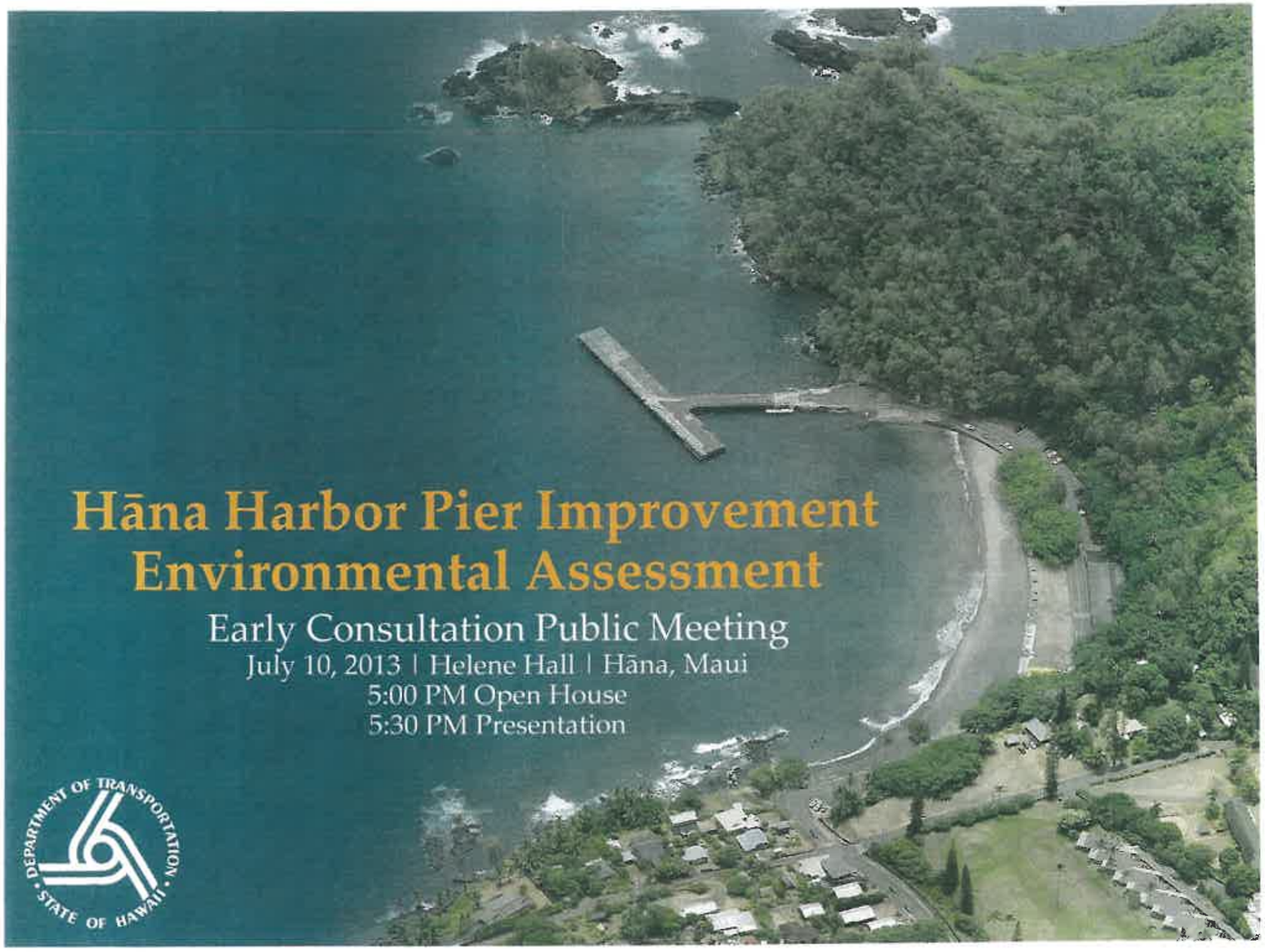

Hāna Harbor Pier Improvement
Environmental Assessment
Early Consultation Public Meeting
July 10, 2013 | Helene Hall | Hāna, Maui
5:00 PM Open House
5:30 PM Presentation
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

Project Team Present

DOT-Harbors *Owner*	Jadine Urasaki, Deputy Director Duane Kim, Maui District Manager Sandra Rossetter, Project Manager
Helber Hastert & Fee *EA Preparation*	Scott Ezer Gail Renard
Moffatt & Nichol *Pier Design*	Dean Kokubun
Kaimipono Consulting *Cultural Impacts & Community Liaison*	Maria "Kaimi" Orr

Agenda

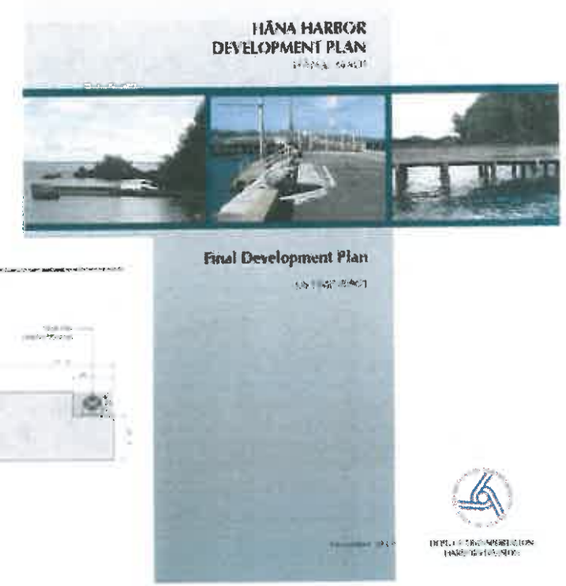
1. Meeting Purpose & Objectives
2. Project Background / Purpose & Need
3. Environmental Assessment and Entitlements
4. Wharf Condition Assessment
5. Biological Resources Summary
6. Tentative EA Schedule
7. Q&A

Meeting Purpose and Objectives

- Project Overview
- EA Process
- Public input into scope of environmental analysis
  - Resources that may be affected
  - Alternatives that should be considered
  - Potential impacts that should be studied

Project Background

- Act 200 (SLH 2008)
- Hāna Harbor Development Plan



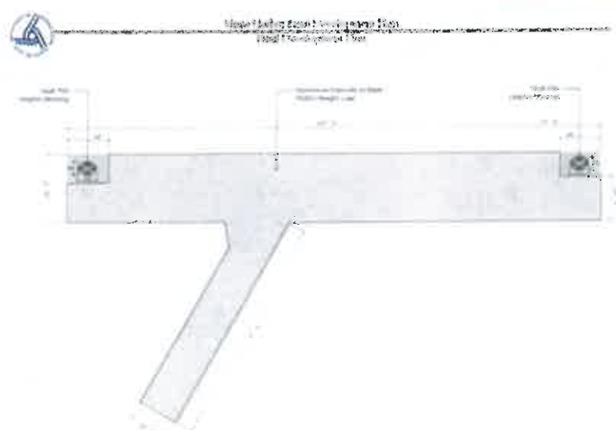


Figure 9.1: Fully Reinforced "T" Option/Twin Mooring Support and Pedestrian Access, Same Footprint as Existing Pier (Option 5A1 Preliminary Conceptual Design (2011, HHDP Planning Team)

Background

- Location & History

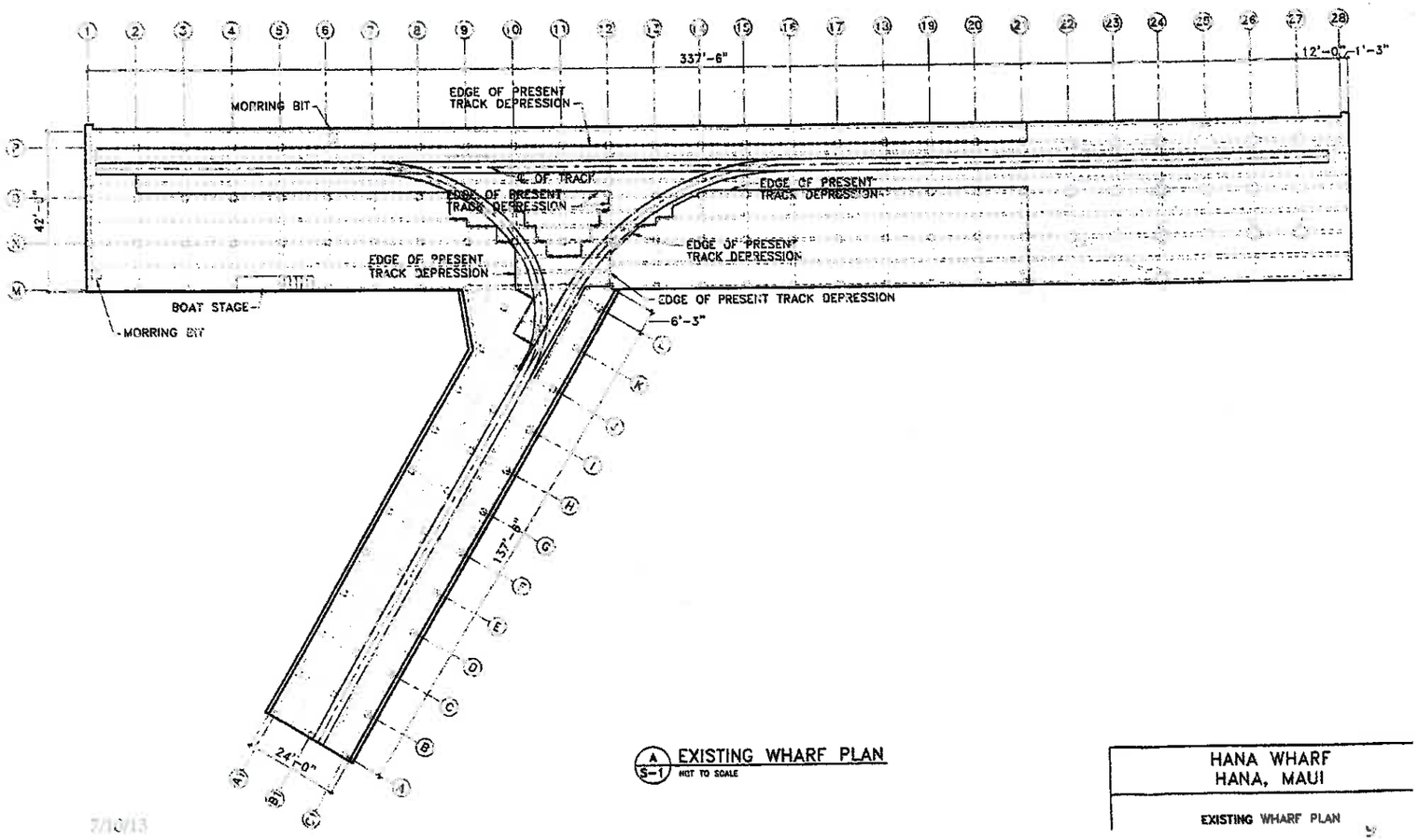
EA and Entitlements

- EA Purpose, Process, Scope
- Alternatives to evaluate
- Primary environmental issues
  - Marine resources
  - Culture/Recreation
  - Historic
- Technical Studies
- USACE Permit

EA Technical Studies

Pier Structural Evaluation and Concept Design	Moffatt & Nichol
Biological Surveys	AECOS, Inc.
Cultural Impacts	Kaimipono Consulting
Noise Study	D.L. Adams & Associates
Historic Architecture	Mason Architects

Existing Pier Plan



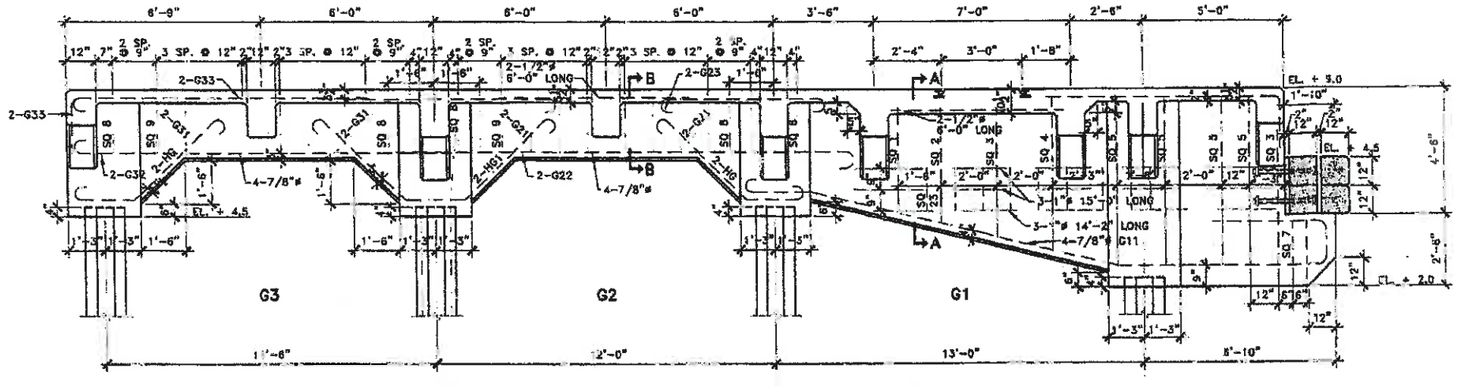
A S-1 EXISTING WHARF PLAN
NOT TO SCALE

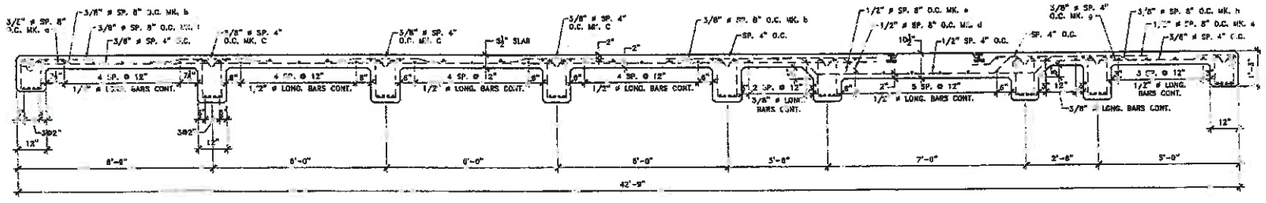
HANA WHARF
HANA, MAUI

EXISTING WHARF PLAN

7/10/13

Pier Sections





Field Investigation

Top of Deck

Field Investigation

Deck, Pile Caps, Beams, Top of Piles

Field Investigation

Deck, Pile Caps, Beams, Top of Piles

Field Investigation

Deck, Pile Caps, Beams, Top of Piles

Field Investigation

Deck, Pile Caps, Beams, Top of Piles

Field Investigation

Deck, Pile Caps, Beams, Top of Piles

Field Investigation

Submerged Piles / Footings

Field Investigation

Submerged Piles / Footings

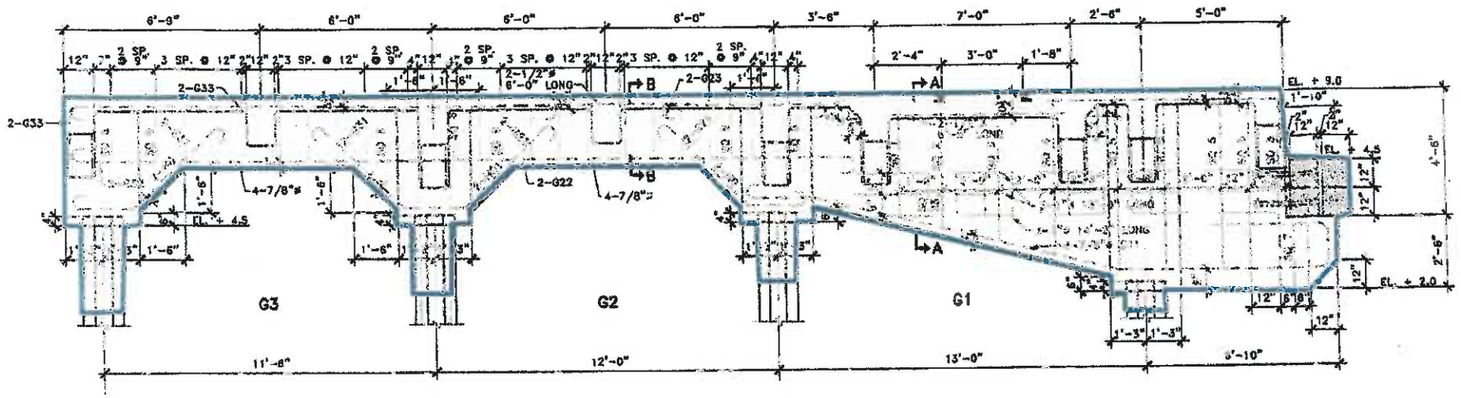
Field Investigation

Submerged Piles / Footings

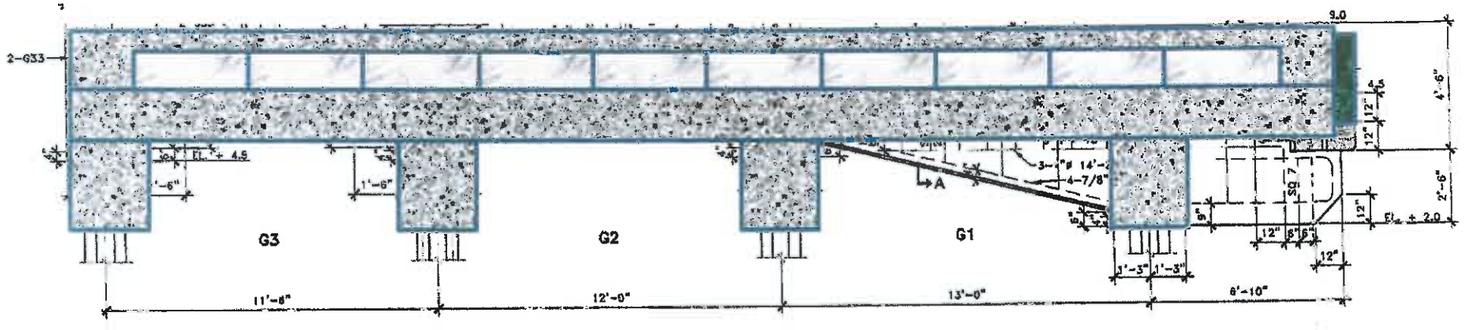
Field Investigation

Submerged Piles / Footings

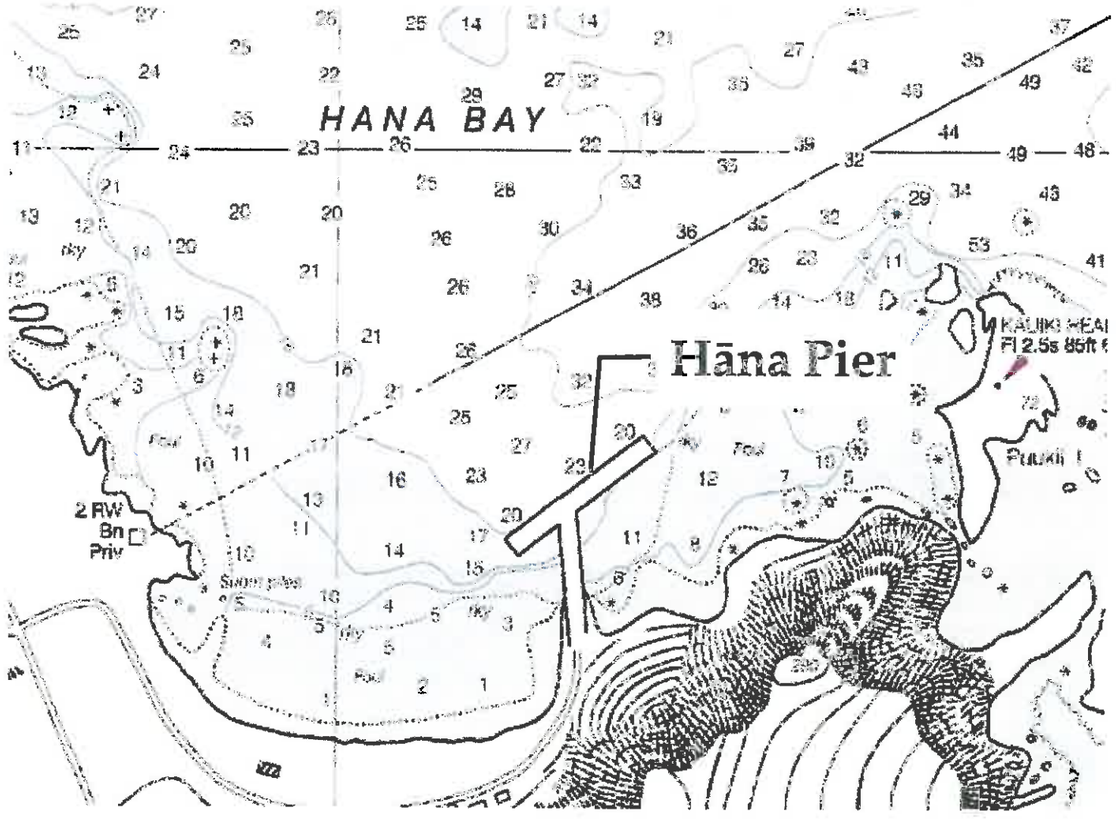
Conceptual Pier Repair Sections



NEW CONCRETE PILE CAP, PRECAST DECK PLANKS, TOPPING SLAB



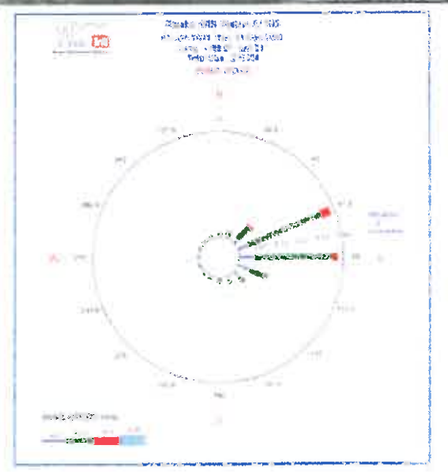
Site Bathymetry



- Generally deeper than 20′
- No planned dredging

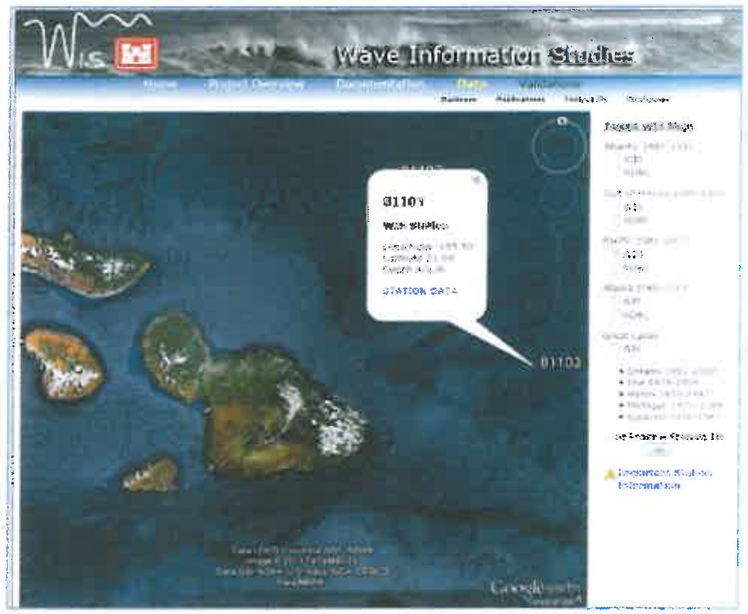
Wind Climate

- Prevailing Easterly Trade Winds
- Site is exposed to tradewinds from east/northeast, and to some degree winds from north
- Winds from west and south are essentially blocked by island of Maui



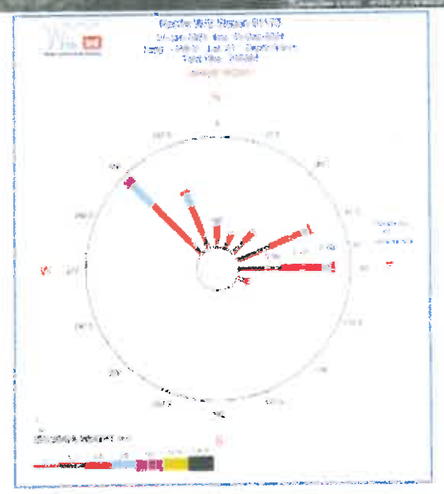
US Army Corps of Engineers – Wave Information Studies (WIS)

- WIS produce an online database of hindcast, near shore wave conditions along US coastlines
- Based on numerical ocean wave generation and propagation model, WISWAVE
- Two WIS virtual buoy locations within near shore area of Hāna Bay site

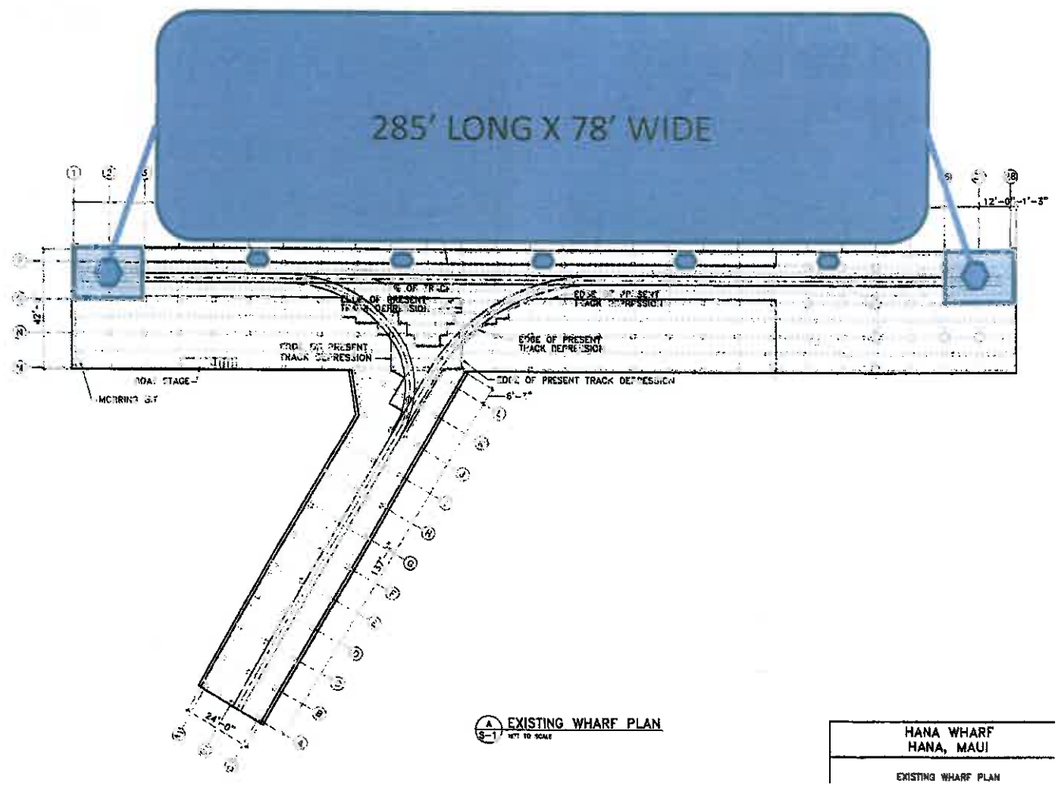


Deepwater Wave Climate

- Long period swell from northwest during winter months – protected by geography of Hāna Bay
- Protected from west and south swells by island of Maui
- Trade wind swell is responsible for majority of waves impacting project site



Pier Mooring Plan



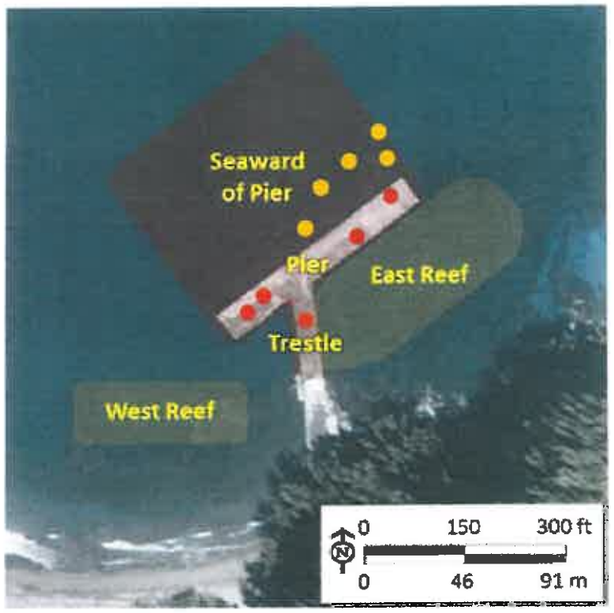
EXISTING WHARF PLAN
NOT TO SCALE

HANA WHARF
HANA, MAUI

EXISTING WHARF PLAN

Biological Surveys

- May 2013 surveys
- Marine and terrestrial biology
- General and quantitative marine surveys
- Water quality and sediment analyses
- Terrestrial biota mostly non-native; no protected species observed



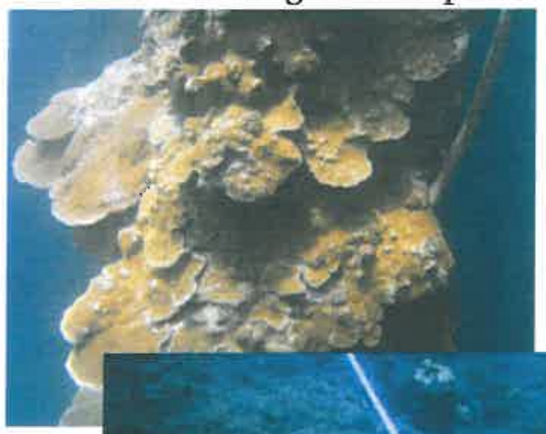
Marine survey areas

- Quantitative transect (seaward of pier)
- Quantitative transect (under pier and trestle)

Biological Surveys

- More coral on exterior piles than interior piles
- Plating coral abundant on piles, some large colonies
- Patchy coral seaward of pier
- Coral proposed for ESA listing observed
- No invasive algae observed at time of survey

Plating coral on piles



Seafloor seaward of pier

Tentative EA Schedule

Community Meeting #1	***Summer 2013***
EA Early Consultation/Scoping	***Summer 2013***
Draft EA Preparation	***Late 2013/Early 2014***
Draft EA Public Review	***Early 2014***
Community Meeting #2	***Early 2014***
Final EA Preparation	***Spring 2014***
Final EA Publication	***Summer 2014***

Contacts

DOT-Harbors Planning Office

Sandra Rossetter, Project Manager
79 Nimitz Highway
Honolulu, HI 96813
(808) 587-1886
email: Sandra.C.Rossetter@hawaii.gov

Helber Hastert & Fee

Scott Ezer or Gail Renard
733 Bishop Street, Suite 2590
Honolulu, HI 96813
(808) 545-2055
Email: grenard@hhf.com

Questions and Input

- Please sign up to speak and use microphone so everyone can hear you
- Input forms available (submit tonight or mail in)
- Fact Sheets available
- Sign in for future updates

Mahalo!