

O & M INSPECTION REPORT
FOR NAVIGATION AND SHORE PROTECTION PROJECTS

1. PROJECT NAME: HALEIWA SMALL BOAT HARBOR

2. DATE OF INSPECTION: 28 August 2002

3. INSPECTION PERSONNEL:

PAT TOM	COE	438-8874
ERIC LI	COE	438-8862

4. DISCUSSION:

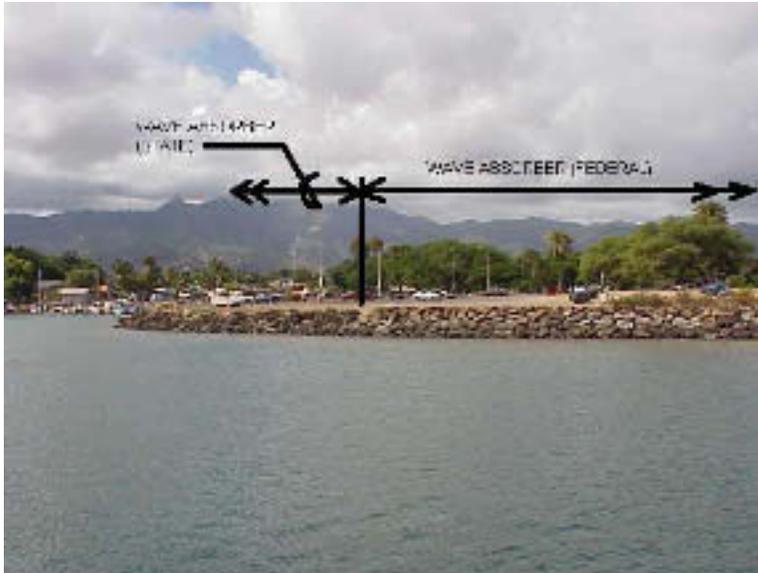
Site Conditions: Low tide, clear skies, moderate winds.

CONDUCTED SITE INSPECTION AND NOTED THE FOLLOWING:

80' BREAK WATER AND 140' WAVE ABSORBER:



a. Overview of 80' breakwater and start of wave absorber.



b. Overview of Federal wave absorber transitioning to State owned wave absorber.



c. Remove tree from start of breakwater and start of wave absorber (WA). Also monitor toe armor stones at head, Sta 0+80.



d. WA, Sta. 0+20 - 0+30, continue to monitor minor depression at crest of structure. Sta. 0+00 - 0+35, Remove vegetation.



e. WA, Sta. 1+20, void at crest (Action Required). Sta. 1+00 to 1+30, continue to monitor depression at crest.

REVETTED MOLE - 1,310' :



a. Sta. 0+00, Overview

b. Sta. 2+80 (from last year - no picture) armor stone missing from hinge of crest/sideslope.



c. Sta. 4+00 - 5+00, remove vegetation from crest.



d. Sta. 4+00, OS, 1 ea. cracked armor stone at crest.



e. Sta. 4+12, OS, 1ea. cracked armor stone on sideslope.



f. Sta. 4+85, OS, 1 void at crest and 1 void on sideslope. Poor contact between armor stones.



g. Sta. 5+35, void at crest. Under layer is exposed.



h. Sta. 7+50, OS, 1 ea. Big cracked armor stone at crest.



i. Sta. 8+90 to start - overview.



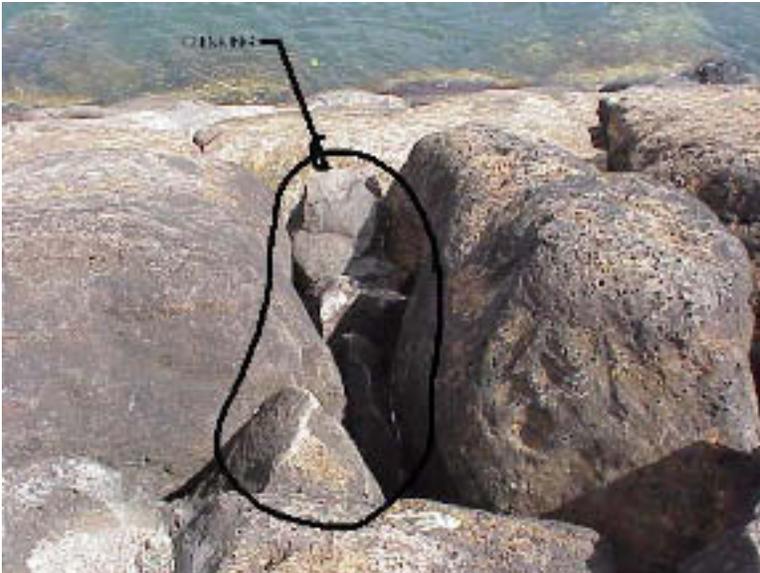
j. Sta. 8+90 to end - overview



k. Sta. 8+90, OS, memorialized armor stone with plaque.



l. Sta 9+00, OS, another memorialized armor stone with plaque and flowers.



m. Sta. 11+00, OS, chinking along hinge.



n. Sta. 11+00, chinking along crest.



o. Sta. 11+97, HS, dislodged armor stone on sideslope. No movement noted.



p. Sta. 12+00, HS, monitor minor erosion at toe.



q. Sta. 12+20, 2 ea. cracked armor stones at crest.

r. Sta. 13+10, (from last year's report - no picture), Head, 20deg offset Oceanside, 1 armor stone dislodged.

5. CONCLUSION: The revetted mole, breakwater, and wave absorber is in operational condition. Action should be taken to fill the void at crest in the Wave Absorber at Sta. 1+20. Removal of vegetation along 80' breakwater and 140' wave absorber is suggested. Continue to monitor depressions along wave absorber and erosion at revetted mole sta. 12+00 (nearby concrete navigational monument).

SIGNED: _____
ERIC LI, CEPOH-EC-T

SIGNED: _____
JAMES PENNAZ, P.E., Ch, CEPOH-EC-T

ENCLOSURE (S) :

1. SITE MAP
2. CONDITION OF IMPROVEMENT DATED 30 SEPTEMBER 1989