APPENDIX B

Cultural Impact Evaluation
Cultural Impact Evaluation for Nāwiliwili-Ahukuni Bike/Pedestrian Path Project Nāwiliwili, Kalapaki and Hanamā‘ulu Ahupua‘a Lihue’e District (Puna Moku), Island of Kaua‘i

TMK: [4] 3-2-004; 3-5-001, 002 & 3-6-002, 019, 020, and various rights-of-way between various plats

Prepared for
R.M. Towill Corporation

Prepared by
Mihaila Spearing, R.A.,
Chris Moshan, Ph.D.,
and
Hallett H. Himmett, Ph.D.

Cultural Surveys Hawai‘i, Inc.
Kaiulani, Hawai‘i
(Job Code: NAWILIWI2)

July 2008

Management Summary

Reference
Cultural Impact Evaluation (CIE) for Nāwiliwili-Ahukuni Bike/Pedestrian Path Project, Nāwiliwili, Kalapaki and Hanamā‘ulu Ahupua‘a Lihune‘e District (Puna Moku), Island of Kaua‘i, TMK: [4] 3-2-004; 3-5-001, 002 & 3-6-002, 019, 020, and various rights-of-way between various plats (Spearing, Moshan and Himmett 2008)

Date
July 2008

Project Number
Cultural Surveys Hawai‘i (CSH) Job Code: NAWILIWI2

Project Location
The project area is located in coastal and near-coastal portions of three ahupua‘a in Lihue‘e District, Island of Kaua‘i: Hanamā‘ulu, Kalapaki and Nāwiliwili. The proposed bike- and pedestrian-path route alignments are located near and adjacent to the Ahukuni Landing, Ninini Point Lighthouse, Lihue Airport, Kaua‘i Lagoons and Marriott Resort, Lihue‘e Civic Center and residential areas mauka (seaward) of the civic center, Nāwiliwili Park and Harbor, and Niumalu Park. This area is depicted on portions of the 1996 Lihue‘e and 1996 Kapa‘a USGS 7.5-minute topographic quadrangle maps (see Figure 1).

Land Jurisdiction
Public and private land

Agency
State Historic Preservation Division (SHPD)

Project Description
The subject project is one phase of a larger project to connect Nāwiliwili with Anahola by a bike and pedestrian path. The subject project links Nāwiliwili, Ahukuni Landing, and the Lihue Civic Center (see Figures 1 and 2).

Project Acreage
Approximately 8 miles (12.9 km) of bike-and pedestrian-path routes are included in the current alignment options for the subject phase of the project, design and width of the various alignment options vary.

Area of Potential Effect (APE) and Results of Prior Surveys
The Area of Potential Effect (APE) consists of all the alignment-option corridors between Nāwiliwili, Ahukuni Landing and Lihue Civic Center, defined as the center line of the corridors and their immediately adjacent alignment shoulders. While this investigation focused on the project APE, for the purposes of this CIE, the study area considered the ahupua‘a of Hanamā‘ulu, Kalapaki and Nāwiliwili.

Document Purpose
At the request of R.M. Towill, Corp., CSH undertook this Cultural Impact Evaluation (CIE) to assist in determining if there is a need for a more comprehensive Cultural Impact Assessment (CIA) satisfying Hawai‘i Revised Statutes (HRS) Chapter 343, Act 50, which mandates assessment of potential impacts to cultural practices and resources by proposed projects undergoing an environmental review. The subject CIE provides preliminary information pertinent to the assessment of the proposed project’s impacts to cultural practices (per the OEQC’s Guidelines for Assessing Cultural Impacts), but does not fully meet the guidelines provided by the OEQC.

Consultation Effort
Hawaiian organizations, agencies and community members were
Results of Background Research and Community Consultation

Thirty-two agencies/organizations or individuals were contacted for this CIE. Seventeen community agencies/organizations or individuals participated in brief informal interviews or provided referrals. Response is still pending from a key cultural consultant, Cheryl Lovell-Ohsako. In lieu of Ms. Lovell-Ohsako's participation in this CIE, a letter regarding the project sent to R.M. Towill has been included for reference in Appendix A. Ms. Lovell-Ohsako indicated in her letter to R.M. Towill that a Cultural Impact Assessment is needed. Ms. Lovell-Ohsako states, "Section 106-ACHP and SHPD review, when Federal Highway Funds are contributed to the bikeway project. A cultural impact assessment under the EIS should be conducted."

The findings of this CIE suggest that there are four major areas of cultural interest and concern regarding the proposed Nāwiliwili-Ahualoa Bike/Pedestrian Path Project:

1. The Nāwiliwili-Ahualoa Bike/Pedestrian Path may impede access to fishing grounds, in particular, vehicular access for residential fishermen, especially along the shoreline. Additionally, the Bike/Pedestrian Path could draw more non-residents who engage in fishing, there is concern that there will be an increased fishing by non-residents which may lead to overfishing.

2. There may be Native Hawaiian burials (wailākūpuna) in the Nāwiliwili Valley (Kahumoku Road) and other areas outside of the project area, and generally, a likelihood that wailākūpuna may be discovered in the project area.

3. Many historic and cultural properties and places exist along the pathway, especially in Nāwiliwili Valley. The Office of Hawaiian Affairs wrote, "OHA seeks assurances that should cultural sites be identified within the project area, every effort should be made to route the final path alignment away from these locations to avoid adverse impacts to the sites."

4. This project is only a segment in a larger project. Although not a part of the current segment, the future Analoa section of the Bike/Pedestrian Path could infringe on Hawaiian Homelands. In particular, there is concern that Native Hawaiians may be displaced from Hawaiian Homelands as result of the expanded Bike/Pedestrian Path.

Recommendations

The results of this CIE present a few possible mitigation measures for the planner/developer's consideration. The following recommendations are offered as a way to address some of the concerns expressed by study participants in the statements presented in Sections 6 and 7.

1. Should this study be expanded to a CIA, it is recommended that referrals provided by current CIE study participants be contacted for further comment or possibly more in-depth interviews, in particular, Cheryl Lovell-Ohsako.

2. In light of statements made by a few of the participants in this study that there may be burial sites (wailākūpuna, ancestral remains) in the project area, it is recommended that:

   a. Cultural monitoring be conducted in the immediate vicinity of previously identified archaeological sites and along the coast. Personnel involved in development activities in the project area be informed of the possibility of inadvertent cultural finds, including human remains in culturally sensitive areas. Should cultural or burial sites be identified during ground disturbance, all work should immediately cease, and the appropriate agencies notified pursuant to applicable law.

3. As there are Kinakia Makii (native born, Native Hawaiians), as well as, other Kumu (kine) groups who are culturally active in the area, it is recommended that ongoing cultural practices of (possible) plant gathering, fishing, surfing and other reasons (e.g., ceremonial) for visits to the project area and vicinity be recognized, protected, and accommodated. In particular, it is recommended that fisher's concerns regarding access to fishing sites be recognized and accommodated.

4. Generally, it is recommended that community members be consulted regarding the preservation, restoration, and interpretation of cultural resources and/or properties — including archaeological sites, possible burials and other features, that proactively includes the community and descendents of those with connections to the subject parcel (e.g., past residence) throughout the development of the Ahualoa Bike/Pedestrian Path Project.

5. It is hoped that seasonal fishing restrictions will be monitored and enforced due to the potential for increased...
fishing activity along the shoreline

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Section 1 Introduction

1.1 Project Background

At the request of R.M. Towill Corporation, Cultural Surveys Hawai‘i, Inc. (CSH) prepared this Cultural Impact Evaluation (CIE) for the Nawiliwili-Ahuakini Bike/Pedestrian Path Project, which is located in coastal and near-coastal portions of three ahupua‘a in Lihu‘e District, Kaua‘i; Hanamā‘ualii, Kala‘apāli and Nawiliwili. The proposed alignments are located adjacent to Ahuakini Landing, Ninini Point Lighthouse, Lihu‘e Airport, Kaua‘i Lagoons, Marriott Resort, Lihu‘e Civic Center and residential areas seaward of the civic center, Nawiliwili Park and Harbor, and Ni‘ihau Park. This area is depicted on portions of the 1996 Lihu‘e and 1996 Kapa‘au USGS 7.5-minute topographic quadrangle maps (Figures 1 and 2).

The subject project is one phase of a larger project to connect Nawiliwili with Anahola by a bike and pedestrian path, a distance of some 17 miles (27.4 km) of coastline along windward Kaua‘i. The subject project (Phase VI of the overall project) links three main sub-areas at the southern end of the overall project corridor: Nawiliwili, Ahuakini Landing, and the Lihu‘e Civic Center. Preliminary planning includes several main alignment options (see Figures 1 and 2), all of which were inspected for this study.

Approximately 8 miles (12.9 km) of bike- and pedestrian-path routes are included in the current alignment options for Phase VI. Design specifications and widths of the different alignment options vary. The Area of Potential Effect (APE) consists of the entire approximately 8 miles of alignment-option corridors between Nawiliwili, Ahuakini Landing and Lihu‘e Civic Center, defined as the center line of the corridors and their immediately adjacent alignment shoulders.

This Cultural Impact Evaluation study was completed as a component of an Environmental Assessment for the proposed Nawiliwili-Ahuakini Bike/Pedestrian Path Project. The study was conducted in order to identify any sensitive areas and potential impacts to cultural practices that may require further investigation or mitigation before the project proceeds. This document is intended to facilitate the project’s planning and support the project’s historic preservation review compliance. Based on the findings of this study, recommendations are presented.

1.2 Document Purpose

The proposed project may (now or in the future) require compliance with the State of Hawai‘i environmental review process (Hawaii Revised Statutes (HRS) Chapter 343, Act 50 law enacted in 2000), which mandates inclusion of an assessment of impacts to local cultural practices and resources by proposed projects undergoing an environmental review. At the request of R.M. Towill, Corp., CSH is undertaking this Cultural Impact Evaluation to assist the landowner / developer in determining if there is a need for a more comprehensive Cultural Impact Assessment (CIA) satisfying Hawaii Revised Statutes (HRS) Chapter 343, Act 50, which mandates assessment of potential impacts to cultural practices and resources by proposed projects undergoing an environmental review. The subject CIE provides preliminary information pertinent to the assessment of the proposed project’s impacts to cultural practices (per the OEOC’s Guidelines for Assessing Cultural Impacts), but does not fully meet the requirements of
the OEQC guidelines. This document is intended to support the project's environmental review and may also serve to support the project's historic preservation review under HRS Chapter 6E-42 and Hawai'i Administrative Rules Chapter 11-284.

1.3 Scope of Work

The scope of work for this CIE includes:

1. Examination of cultural and historical resources, including Land Commission documents, historic maps, and previous research reports, with the specific purpose of identifying traditional Hawaiian activities including gathering of plant, animal, and other resources or agricultural pursuits as may be indicated in the historic record.

2. A review of previous archaeological work at and near the subject parcel that may be relevant to reconstructions of traditional land use activities; and to the identification and description of cultural resources, practices, and beliefs associated with the parcel.

3. Limited consultation with knowledgeable parties regarding past and present cultural resources and practices at or near the parcel; present uses of the parcel; and/or other (non-Hawaiian) practices, uses, or traditions associated with the parcel.

4. Preparation of a report summarizing the results of these research activities.

Figure 1. Project area location shown on portions of the USGS 1906 Lihue and 1996 Kapaa quadrangles 7.5 minute topographic map, red line depicts all proposed alignments.
1.4 Environmental Setting

1.4.1 Natural Environment

The project area extends from the coastline, between Ahukini Landing in the north to Ninini Point in the south, inland approximately 2.7 kilometers (1.7 miles), rising from sea level to approximately 220 feet above mean annual sea level in Lihue’s Town. The area's topography is gently sloping up to the west; there are several shallow intermittent, unnamed drainages between Lihue’s Town and the coast (Juvik and Juvik 1998).

Located on the southeast coast of Kauai, the project area is exposed to the prevailing northeast trade winds, and receives 40 to 50 inches of rainfall annually along the coast and up to 100 inches annually inland (western portion of the project area). The annual average temperature ranges form 75-80° F at the airport (Giambelluca et al. 1986; Juvik and Juvik 1998).

Soils in and around project area consist primarily of Lihue’s silty clay (LhB and LhC) and Lihue’s gravelly silty clay (LgB) (Foote et al. 1972) (Figure 3). Lihue’s soils have a surface layer of dusky-red to dark reddish-brown firm silty clay. The substratum is soft, weathered basic igneous rock. Sugar cane has been the main commercial crop in this area in historic times.

Given the relatively large area covered by the proposed bike and pedestrian-path route alignments, and given the presence of developed areas, roadways, resorts and other facilities (e.g., parks, harbors and the airport), vegetation in and around the project area is quite variable. Areas around the airport, for example, consist of landscaped lawns and introduced ornamental and exotic plants. Tall invasive grasses cover much of the project area that was once utilized for commercial sugar cane. The coastal strip is covered in dense vegetation with both native and introduced species, including Naupaka (Scaevola sericea), Tima (Sida spp.), Koa haole (Lagenaria leucophylla), Christmasberry (Schinus terebinthifolius), Ironwood (Casuarina spp.) and tall grasses.

1.4.2 Built Environment

Background research indicates that nearly the entire project area was, prior to the construction of the Lihue Airport, under commercial sugar cane agriculture. This agricultural use of most of the project area resulted in the grading and repeated plowing of the project area. With the construction of the airport, residential areas to the west in Lihue’s Town, the resorts between Ninini Point Lighthouse and Nukilei, and other facilities and infrastructure (e.g., roadways and utilities), most of the project area was further modified by modern land uses. The coastal strip area has been less affected by modern land use, but still shows clear evidence of modifications, such as dirt trails and tracks and illegal dumping of refuse materials.
Section 2  Methods

Historical documents, maps and existing archaeological information pertaining to the sites in the vicinity of this project were researched at the Cultural Surveys Hawai‘i library. Information on Land Commission Awards was accessed through Waihona Aina Corporation’s Mahelo Database (www.waihona.com). The State Historic Preservation Division, Office of Hawaiian Affairs, Kaua‘i Island Burial Council, Kaua‘i Historical Preservation Review Commission and community and cultural organizations in Hananani, Kapaaua and Nawiliwili, etc. were contacted in order to identify potentially knowledgeable individuals with cultural expertise and/or knowledge of the project area and the surrounding vicinity. The names for potential community contacts were also provided by colleagues at CSH and from the authors’ familiarity with people who live in or around the project area. The cultural specialists conducting research on this evaluation employed snowball and judgment sampling methods, an informed consent process and semi-structured interviews according to standard ethnographic methods (as suggested by Bernard 2005). Some of the prospective community contacts were not available to be interviewed as part of this project. A discussion of the consultation process can be found in Section 6 on Community Consultations. Please refer to Table 1, Section 6 for a complete list of individuals and organizations contacted.

Figure 3. Soil types in and around the project area (data from Foote et al. 1972)
Section 3 Traditional Background

This section focuses on the traditional background of coastal and near-coastal portions of three ahupua'a in the moku (traditional district) of Puna. Hanamā'ulu, Kalapaki and Nāwiliwili (Figure 1). The subject project area is located between the two main bays and streams of Nāwiliwili (to the south) and Hanamā'ulu (to the north). These two meandering streams, which drain the slopes of Kīholo Crater (1143 feet elevation), were once home to thousands of Native Hawaiians living a traditional subsistence lifestyle.

Handy (1940:67) describes these two valleys in his chapter on the main kalo (taro) growing locations in Puna Moku:

[Nāwiliwili] For 3 miles inland from the sea the Nāwiliwili River twists (e'eloo) through a flat valley bottom which was formerly all in terraces inland, just above the bay, three Hawaiian taro planters cultivate wet taro in a few small terraces. Most of the land is [now] in pasture.

Hanamā'ulu River, rising below Kīholo Crater, winds its zigzag way to the sea through a relatively broad gully, which had many small terraces commencing at a point about 2.5 miles up from the sea and continuing down to the delta of the river which begins about a mile inland. The small terraces inland from the highway are unused. The delta region is a continuous area of flatland now mostly under sugar cane and house sites. Formerly this [delta] must have been planted in taro.

A fishing village called Kalapaki was located between these two major stream valleys, near the seashore, before the historic period. This general area between the streams and moku of the present town of Līhu'e, moku of the village house sites, had several fishponds and small drainages. The village was located east and north (around and up the coast) from Kalapaki Beach. There are some unique aspects of local land use and settlement in the subject project area, as discussed below (Section 2.3 Subsistence and Settlement).

Kalapaki, famous for its wind, appears to have had closer ties with Nāwiliwili than with Hanamā'ulu. Kalapaki is well-known in a traditional sense for its several heiau. Hanamā'ulu is probably best known as the birth place of Kawelo, the famous hero and Mō'ī (king) of Kaua'i, in the late 17th to early 18th century. Nāwiliwili is well-known for its Ahupua'a at Kuliou, reportedly at least four acres in size, and its associated pōhaku (rock) called Paukini, located in the bay.

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Figure 4. Moku (traditional districts) and ahupua'a of Kaua'i; note the location of "Hanamā'ulu," "Kalapaki," and "Nāwiliwili" (Handy 1940)
3.1 Place Names

Translations presented without attribution in this subsection are from Pukui et al. (1974), unless indicated otherwise.

Pukui et al. (1974:14) state that Kalapaki, defined simply as a "beach" in Lihu'e district, Pukui and Elbert (1983) define the word Kalapaki (with a small "k") as "double-yolked egg. Kaua'i." Aside from its beach and landing Kalapaki is probably best known in a traditional sense for its heiau of Ahukini and Ninihi (and possibly another at Kaua'i). Ahukini has been translated as "altar [for many blessings]" (brackets inserted by Pukui et al. 1974), and this was also the name for a heiau in Kaua'i. Ninihi has been translated as "pour," as in niina nui (to pour water).

Most sources suggest Nawiwiwi takes its name from the wiluwi tree (udu is the plural article, as in "the wiluwi trees" or "place of the wiluwi trees"). According to Pukui and Elbert (1986), the wiluwi (Erythrina sandwicensis) is a native leguminous tree whose flowers and pods are used for lei, and whose light wood was once used for surfboards, outriggers, and net floats. Handy (1940:67) suggests a kama (hidden meaning) for the name Nawiwiwi based on a reduplication of the word wilu, which means "twisted," as in the meandering Nawiwiwi Stream.

Hananamaliu has been translated as "tired (as from walking) bay," which may be related to mo'olelo (oral history) and 'olelo no'eau (poetic sayings) about the stingy people of this place (see below).

Lihue' (literally translated as "cold chilli") became the modern political name for the traditional place name (kilo) of Hanu. It is clear that Lihue' is a traditional place name, but less certain that the subject project area was specifically called this name prior to the historic era. Historical documents suggest the name Lihue' was first applied to this area by Kauinowau (Governor of Kaua'i) in the 1830s, perhaps after Kauinowau's upcountry residence on the island. On the other hand, Nathaniel Emmons' translation of the famous ola (chant) cycle of Hii'aka and Pele (see below) mentions Lihue' with the other main places of this area.

It is also well known that Lihue' was a traditional settlement area near the current Schofield Barracks on O'ahu.

Kilohana, the source of the water of Nawiwiwi and Hanamaliu Streams, is associated with mo'olelo of a boy named Lah'i and his uncle (see below); there are multiple possible meanings of the name Kilohana (Pukui et al. 1974:143 list three: "lookout point," "outer tapa," or "best, superior.

3.2 Mo'olelo Associated with Specific Place Names

There are many mo'olelo associated with the project area environs. One of the oldest and most famous legendary accounts in Hawaiian oral tradition describes the travels and exploits of Pele, the Hawaiian volcano goddess, and one of her sisters, Hii'akalapoleole (more commonly known simply as Hii'aka). Pele, in her lengthy oli (chant) of literally hundreds of named winds of Kaua'i, lists those of Nawiwiwi, Kalapaki, Ahukini, Lihue', Kapaa, and Hanamaliu (Nogelmeier 2006).

He he'e 'o ka makani o Nawiwiwi He Waima ka makani o Kalapaki He 'Ehukai ka makani o Ahukini He 'Ahehaha ke kia ho o kii makani lele kula o Lihue' He Kuli'ihihi ka makani o Kapaa He Ho'ohakainoha ke makani o Hanamaliu The wind of Nawiwiwi is a Hu'eone The wind of Kalapaki is Waima The wind of Ahukini is an 'Ehukai A Pihola wind is the scou that fetches the winds sweeping the Lihue's plains The wind of Kapaa is a Kuli'ihihi The wind of Hanamaliu is a Ho'ohakainoha

3.2.1 Kalapaki

According to a collection of Kaua'i place names by Kelsey (n.d.), Kalapaki has also been known in traditional times as "Ahukini," as in the following 'olelo no'eau:

Ahukini, o ia ka inoa nui o ka'alii a hālai Hanamaliu'u.

Ahukini is the overall name of the land next to Hanamaliu.

3.2.2 Ahukini and Ninihi

According to Wichman (1998), Ahukini Heiau was named for Ahukini-a-lai-a (who lived about 1250 A.D.), one of three sons of Le'a-ma-kahiki, an ancestor of the Kaua'i chiefly line; Ahukini was also ali'i nui (supreme chief) of the Puna district (Wichman 2003).

In the 1930s, the Hawaiian legend chronicled Rice (1974), a life-long resident of Kaua'i, published this mo'olelo about Ahukini in the story of "The Goddess Pani'ole."

Two brothers of Pani'ole, who had come from foreign lands, saw Lohiau's body lying as a stone where the lava flow had overtaken him. Pani'ole willed in their heart and they brought Lohiau to life again. One of these brothers made his own body into a canoe and carried the unfortunate Lohiau to Kaua'i, where he was put ashore at Ahukini. (Rice 1974:14)

3.2.3 Nawiwiwi

The menemene (mythical race of little people famous for building great structures of old) were known to live in the Nawiwiwi area:

It was one of the favorite playgrounds of the tribe of Menemene, the little brown workpeople who played as hard as they worked. And again it is William Hyde Rice, who, more than any other teller of stories, has kept for us old tales of this happy playground... (Damon 1931:395-396)

3.2.4 Kualoa and Paukini

Several historic documents talk about the close connection between Kualoa Heiau and the pohaku known as Paukini. Damo (1931:393) writes:

[Kualoa Heiau] ... was in its day the largest and most famous temple on the island. Below it, in the bay, is still the rock called Paukini, which was said to be
its companion or sister heiau, and was probably also the home of the kahuna, or priest, of Kuhiau. In ancient times this rock was connected with the shore near the site of the former boat landing.

Pauliini is located at the ahupua'a boundary between Nāwiliwili and Kalapaki, and it is likely that this function was an important part of its traditional importance.

### 3.2.5 Hanamā'ulu

Many references to Hanamā'ulu are made in the "Legend of Kawelo". Kawelo-lei-eakua, called Kawelo, was born at Hanamā'ulu. After having become the paramount chief of Kaua'i, he returned to Hanamā'ulu, where he lived with his parents and his wife. Kaneanaheikiahoa (Fornander 1918; Rice 1974). The hero of this legend lived in the last half of the seventeenth and early decades of the eighteenth century (Hommon 1976:135).

Rice (1974) recorded this ma'oliolol about Hanamā'ulu:

> Coming to Hanamā'ulu, Lohiau found all the houses but one closed. In that one were two old men, one of whom recognized him and asked him to enter. The men were making tapa, which they expected to carry soon to Kapa'a, where games were being held in honor of Kalieiapoa and his bride, Hi'iaka. (Rice 1974:14)

The suggestion of inhospitality at Hanamā'ulu recorded by Rice ("Lohiau found all the houses but one closed") is reminiscent of the Hawaiian proverb No Hanamā'ulu ka ipu puheu, or "the quickly emptied container belongs to Hanamā'ulu" (Pukui 1983:252), that implies the food containers of Hanamā'ulu were often bare - a plausible reason for the local residents to be stingy.

Another heiau mentioned in legend is Kalaaukamani, which means the "tip of the endpiece of the canoe." It was located in Hanamā'ulu near the mill. According to Wichman (1998), human sacrifice was conducted at this heiau, and travelers would pass by the temple quickly, holding their noses to avoid the great stench coming from the dead bodies.

According to a study by Lahainaluna School students:

Kalaaukamani [loc] was another heiau. It was named for a real woman and this is a little story pertaining to it:

Two men came from Kauai, Ukaapio and Kaipoelimanu. While they lived at Kahikimatea, they heard of the beauty of Kalaaukamani and went in search of her until they arrived in the upland of Wailua. Kalaaukamani was dead but her spirit saw the men, followed after them and asked, "Where are you going?" They answered, "To see Kalaaukamani to be our wife." The spirit said, "There is no woman, for she is dead." The spirit again warned them, "Do not go up this way but go down below. There is the woman for you, Moopakali. Do not go up this way lest you smell the stench of the body of the woman [you seek] for she lies unburied."

The men insisted on going up on the upper side of Wailua and they did smell the stench of the woman and both died. They stood at Kahokualii to this day. Both had turned to stone. (Lahainaluna Students 1885, HEN 1:218)

### 3.2.6 Kiiholana

Damon (1991) described Kiiholana as a famous nesting place of 'una'a (Pterodroma phaeopygia sandvicensis), the dark-rumped petrel, a chiefly delicacy. The top of Mauna Kahili, the peak to the west of Kiiholana, was a sacred burial place of Hawaiian chiefs. Kiiholana is also associated with the menenae:

One of their favorite play places was the little hill of Poo-poo-pi. Rounding for climbing-up. This they had themselves built on the top of Kiiholana and never were they more delighted than when they could climb it over and over again for the sheer fun of rolling down its sides, frolicking and laughing as they rolled. It was such a sport that their gleeful shouts carried clear across the Kaui channel to the southeast and startled birds at Kahuku on the island of Oahu. (Damon 1991:395-396)

Once, a Menehune called Ka-uki-uki, The-man-of-wrath, boasted that he could climb to the top of this hill at Kiiholana and snare the legs of the moon. Ridiculed by his fellow tribesmen, he valiantly attempted to make good his boast, and was turned into a stone when he failed of achievement. For many years this stone was recognized by Hawaiians as a lupua, or demigod, and offerings of lehua-blossoms and fragrant maile leaves were laid upon it in passing, that rain and fog might not hinder the errand which carried the people into the mountains. (Damon 1991:395-396)

### 3.3 Subsistence and Settlement

The ahupua'a of Hanamā'ulu, Kalapaki and Nāwiliwili were permanently inhabited and intensively used in pre-Contact times, based on a large amount of archaeological, biological, and oral-historical documentation. The coastal areas were the locus of permanent house sites and temporary shelters, heiau, including kō'a and kū'ūa (both types of relatively small shrines dedicated to fishing gods), and numerous trails. There were fishponds at Kalapaki and Nāwiliwili. Further from the current project area, there were numerous house sites and intensive cultivation areas within the valley bottoms of Nāwiliwill and Hanamā'ulu Streams.

Before the historic era, there was a village at Kalapaki (probably between Kalapaki Beach and Ahukini), and another, likely larger, at Nāwiliwili to the southwest. Another village was located near the mouth of the Hanamā'ulu Stream.

The dryland areas (kula) of these ahupua'a contained native forests and were cultivated with crops of wauke (paper mulberry, Broussonetia papyrifera), wala (sweet potatoes, Ipomoea batatas), and ʻipu (bottle gourd). Legends and historic documentation (especially Land Commission records) elaborate on many of these important natural resources.
The archaeological record of early Hawaiian occupation in the Liho’u District indicates a date range of c. A.D. 1100 to 1650 for pre-Contact Hawaiian habitations (Walker et al. 1991). A radiocarbon date of A.D. 1170-1460 was obtained from excavated sediments near the mouth of Hanamak’ula Stream.

Land Commission documents indicate a land use pattern that may be unique to this part of the island, or to Kaua’i, in general, in which ia’i (irrigated terraced gardens) and koa’o lands in some ‘upono (portion of land) with households in a separate portion. In most places, koa’o lands are defined as dryer landscapes and they do not typically occur next to, and among, wetter ia’i lands.

3.4 Streams

Nawiliwili and Hanamak’ula Streams have their moku (source) on the upper slopes of Kilohana Crater, located four-and-one-half miles to the west. As described above, Kilohana is associated with no‘olelo’o about a giant, bird hunters who lure him to his death, and koa’o (waintrolls) that come to avenge the giant’s murder only to be thrown to their deaths by the young bird hunter Lahi. It is important to point out that the water in these two streams running by the subject project area, literally defining its northern and southern margins, would have been closely associated with Kilohana in the paranse and expressions of Native Hawaiians living a traditional lifestyle.

Two smaller streams, Koena’awa nui and Koena’awa iki, are identified in Land Commission documents, although neither of these is named on any extant maps. Given the gently-sloping character of the natural lay of the land from Liho’u to the coast, it is possible that there were once a few other smaller drainages traversing what is now the airport, resort and golf course area, and, that Native Hawaiian planters made use of this water (Figure 5).

Figure 5. Kalapaki Bay, showing location of two streams and their cutters (red Xs) to Kalapaki Bay. Koena’awa stream is on the left (undated photograph in Kaua’i Museum files, see http://www.hawaii.edu/environment/alakunuwai.htm).
3.5 Heiau

There are several historic map sources showing multiple heiau along the seashore and stream mouths in and around the general footprint area of the proposed project (Figures 3 and 4). For the most part, all physical evidence of these heiau has been obliterated by historic activities and more recent development. Despite this, however, many people still appreciate the sacred nature of the landscape areas in and around these heiau (e.g., the rocky points at Ninini, Ahukini, and Kauai Point). These differences between western and indigenous ideas about value and significance are rarely mentioned in cultural impact studies, but they are fundamental to understanding traditional resources.

Lt. George G. Jackson's 1881 map of Nāwiliwili Harbor shows there were major heiau on both sides of the mouth of Nāwiliwili Stream (see Figure 3). On the east side, in Kalapaki Ahupua'a, Jackson's map depicts "remnants of ancient heiau" near Kūkui Point. On the west side of the bay, in Nāwiliwili Ahupua'a, there is an area labeled "Kauaiu" near the courthouse; this was the previous location of Kauaiu Heiau.

In addition to the heiau at Kūkui and Kauaiu, Damon's (1931) map shows two additional sites located in coastal Kalapaki Ahupua'a: Ninini Heiau at the point of the same name, located east of Kūkui, and Ahukui Heiau, located about halfway to Hanamalu Ahupua'a (see Figure 4).

Bennett's (1931) archaeological survey of the late 1920s documented three heiau within the general footprint area of the proposed project (see Section 4 Archaeological Research for Bennett's map). Kauaiu Heiau, State Inventory of Historic Properties (SIHP) No. 99, was located at Nāwiliwili near the site of the old courthouse. By Thrum's time, approximately two decades before Bennett's work, this heiau was already described as "long since destroyed" (Bennett 1931:124). Thrum described it as:

[a] large paved heiau, whose enclosure covered an area of about four acres. The rock Paauini, now separated from but formerly connected with the shore, was where the kahuna lived. This is said to have been the largest and most famous on Kauai in its day. (Bennett 1931:124)

Ninini Heiau (SIHP No. 100) and Ahukui Heiau (SIHP No. 101) were both described by Bennett as totally destroyed. According to Thrum (Bennett 1931:125), Ahukue was "[a] heiau of medium size; foundations only now remain." Thrum's (1907) island-wide listing of heiau on Kauai includes another "destroyed" heiau called Poakonoele.
3.6 Menehune Fishpond

Niumalu Loko (fishpond), also known as Alakoko in Land Commission documents [alternatively, Alekoko or "Alekoko in other sources (e.g., Kikuchi 1987, and the Hawai'i State Historic Preservation Division website, respectively), was first described and mapped scientifically by Bennett in the late 1920s. It is located along the Huleia Stream near its mouth to Nāwiliwili Bay, just outside the project area to the west-southwest (Figure 5). Kikuchi (1973, 1987) considered it a Loko Wai clear fishpond because of its inland location along a meander of the Huleia Stream; other sources (inaccurately) consider it a Loko Kuapa (a seawall pond, fronting the ocean). The overall size (area) of the pond has apparently varied through time from as small as 32 acres to as large as 39 acres. The site (designated State Inventory of Historic Properties No. 50-30-11-501) was placed on the National Register of Historic Places in 1973.

Early observations by Severin, who photographed the fishpond in the early 1890s, and by John Coney, who eventually assumed its management sometime after 1918, indicate the pond had been neglected and was in a state of disrepair. In the late 1920s, Bennett (1931:124) described the dimensions and construction features of Niumalu Fishpond (SIHP No. 98, labeled "Menehune Fishpond") on the 1920 USGS 7.5-minute Lihue quadrangle map, see Figure 1:

The Niumalu [sic] fish pond consists principally of a stone-faced, dirt wall that runs for over 900 yards and cuts off a large bend in the river for use as a fish pond. It is today [in the early 1930s] used both for fish and ducks. Cement walls and iron gates have obscured any old method of controlling the water or the fish.

This fishpond is associated with the mo'olelo of the brother and sister shark guardian spirits named Alekoko and Kahalalehua, who were said to have given the task of construction to the mythical little people of old, the menehune (Kahiwi 1921). According to Rice (1974), it is said the menehune failed to completely finish their task, thus leaving a small opening (gap) that was later finished by people who did an inferior job of it; this inferior stone-working is still visible in historic times.

It is worth mentioning that the menehune concept has long been considered by many researchers (e.g., Pila Kikuchi) as an old Hawaiian metaphor for Ka Pe'e Kahiko (the people of old) who were also the moku 'akua (commoners); as in, "it was built by the little people," rather than the elites. Whatever the exact meanings of the term, it is clear that Hawaiians in early historic times commonly referred to sites that had been around since before anyone could remember as menehune constructions.
3.7 Kilohana Crater and Puʻu Hāʻupu

Hāʻupu puʻu (mountain), located approximately five miles southwest of the project area, is the highest nearby landscape feature (2297 feet elevation). It has important associations with Puʻu Moku, in general, and with Nāwiliwili, in particular (see examples of Hawaiian song, below). Because it is a local topographic high point on the Funa coast, Hāʻupu is also specifically linked with ʻolelo noʻeau (proverbs or poetical sayings) about observing the behavior and quality of the clouds around it, as an indicator of rain. Puʻuki offers these two (among several others) entries for Hāʻupu: (1) Koʻa koʻa puaʻa i leua o Hāʻupu, e no o ia ("When the pigs [puley clouds] moved around the summit of Hāʻupu, it is going to rain"), and (2) Ko ʻau keʻau keʻau u o Hāʻupu ("When clouds circle the peak of Hāʻupu, it is sure to rain"). Puʻuki 1983:151, 163. Although this puʻu is located five miles away from Nāwiliwili, it is closely associated with the subject project area in a traditional Native Hawaiian sense.

Kilohana Crater, located approximately four-and-one-half miles west of the project area, is the moka of the two main streams that frame the subject project area. As the moka of the Wai o Ke Kāne (fresh water), Kilohana is probably even more sacred than Hāʻupu. Depending upon the strength and quality of the makani, the wa (rain) that falls on eastern slopes of Kilohana may flow into either Nāwiliwili or Hanamāʻu.

Damon (1931) described Kilohana as a famous nesting place of waʻua (Pterodroma phaeopygia schauinslandi), the dark-rumped petrel, a chiefly delicacy.

3.8 Mele (Hawaiian Song)

Bowers (1984) compiled the lyrics (in Hawaiian and English) to over two dozen mele (songs) about Kauaʻi, several of which mention Nāwiliwili and nearby Līhuʻe, Niulima, and Hāʻupu. These mele are attributed to a variety of composers (sometimes there is no specific person listed), most of these songs were probably written in the 20th century, based on their style (e.g., the second song below uses the term "uapo," also spelled in some sources as "waapo," defined by Puʻuki and Elbert 1986 as a historically-introduced (i.e., "pidgin") term for "wharf"). Regardless of their age—whether they are decades or centuries old—these songs are cherished by many people, and speak to a great love for the beauty of Nāwiliwili, in particular.

The following song (Bowers 1984:3), attributed to "Hauanii Kahalewelui's Trio with the Waikiki Serenaders" (Kamehameha School Music Collection Record No. 574), associates Nāwiliwili with the nearby Hāʻupu and the mokihana flower:

| Kaikiahi mai nei a o Nāwiliwili | Renowned in Nāwiliwili |
| He nei nā naʻi nāui | Attractive even to Niulima |
| He nei nā naʻi maikū | A beauty unsurpassed |
| Ke kākeha nei oʻe a o Hāʻupu | Spedid ridge of Hāʻupu |
| Koʻa koʻa puaʻa o mokihana | The mokihana flower |
| Ke koʻa koʻa o Kauaʻi | The beautiful flower of Kauaʻi |

Ke ʻohiʻi ke manoa o ʻā Kauaʻi The mind is entranced with Kauaʻi
E o mai ka kulea aloha Le-year beloved voice respond
Ka hana a‘e pi‘ilani
He ike ‘eva ma nei ke po‘ona
Ke mana maoli nei
Kaulana ma nei Nāwiliwili

The sound of Pi‘ilani.
The refrain has been told
A beauty unsurpassed.

Another mele entitled “Kaulana ka inoa a‘o Kaua’i” (Bowers 1984-2), attributed to a
recruiting (Koa‘ula o‘Ole Hawaiian) by the famous Sons of Hawaiian, again mentions the mokihana:

Kaulana ka inoa a‘o Kaua’i
Ku ‘oe lei mokihana po‘ina ‘ale.
Ko kūhukula ‘oe Wai‘ale‘ale:
Ne konu kaulana o Nāwiliwili.
Laua o makana ka ‘a‘a aloha
Me ka upeo nanu a‘o Nāwiliwili
P‘e ina l ke ‘i ke‘a‘o Kipā
Me ka wa‘i ‘ana ‘anaana e kaulana nei
I aloha i nā o‘o Waima‘o
Me ke ‘ona kainoa a‘o No‘ili
Pua‘i‘i aina aloha ma ka‘u poli
Hone‘ehone keni lelo me ke ipo a‘a
Hea ako no au, e o mano ‘oe
Lauli ana Kaua’i ka mokihana

Famous is the name of Kaua’i
My unforgettable mokihana lei.
Wa‘ialae is you stand majestic
With the famous beauty of Nāwiliwili.
I love the fragrant fern of Makana
With the fine wharf of Nāwiliwili.
According to see Kipu
With the famous glittering waterfall.
Beloved is Waima‘o
With the barking sands of No‘ili.
Your love is held fast in my heart
Sweet your voice like a sweetheart.
I call, you answer
Kaua’i, decked in mokihana.

The mokihana (Melicope wairakiae) is a native (endemic) tree, found only on Kaua‘i;
considered traditionally to be a variety of ‘alani (a general term for citrus tree). The lei made
of mokihana is a traditional symbol of the island of Kaua‘i. According to Abbott (1992),
the mokihana were used to make the most treasured and rare seed in the Hawaiian Islands.

There are other mele about these and other nearby places that could be included in a more
comprehensive document, such as a C1A, should one be warranted.

Section 4 Historical Background

This section is based on prior works by Damon (1931), Hannam and Creed (1993), and
Creed et al. (1999). Damon’s Koa‘ula (a history of the Rice Family) contains excerpts from
a large number of 19th century primary sources, including first-hand observations of life and times
in and around Lihu‘e / Nāwiliwili. Creed’s work, in particular, contains extensive documentation
(2001), Wilcox (1965) and Condé and Best (1972) all document historical aspects of commercial
sugar cane, railroads, irrigation, plantations, and other 19th and 20th century changes.

4.1 Early Historic Period

The first written accounts of Kaua‘i are from travelers, missionaries, and surveying
expeditions. Missionary accounts of first half of the nineteenth century provide the majority
of the early written records for this particular part of Kaua‘i (Figure 6).

Damon (1931:401) wrote about Hiram Bingham’s 1824 observations from his memoir, A
Residence of Twenty-One Years in the Sandwich Islands, published in 1847.

In 1824, when walking around the island from Waimae to counsel the people after
the wreck of The Clesperus’ Barque, Rev. Hiram Bingham crossed from Hanapepe,
as has been seen, over the old up and trail back of Kilohana, and wrote
of it as a ‘country of good land, mostly open, unoccupied and covered with grass,
sprinkled with trees, and watered with lively streams that descend from the forest-
covered mountains and wind their way along ravines to the sea,- a much finer
country than the western part of the island.’

In the 1830s, another missionary. Rev. Peter Culich, was living on Kaua‘i at Waimae and
Kōloa. He made the following observation about the kind of provisions one could find
in Hanamō‘alu at the time:

... The governor [Kalikoaio] reached Hanamō‘alu in his canoe just as we entered
on horse back... This is the governor’s custom, when he travels. A man is sent
before to give notice that provision may be made, at the different stopping places,
for him and his train: which frequently amounts to two hundred [people]... I with
a few natives had a comfortable house at Hanamō‘alu. The inhabitants brought us
fish fresh from the ocean, fowls, taro, potatoes, and a pig, all except the fish
roasted or baked in the ground... A youth who went with me for the purpose
prepared my food. My bed, which was made with mats, was covered with ten
tapas; these were the bed clothes which according to custom were presented to the
guest for whom they were spread. (Damon 1931:360)

At this same time, in the 1830s, the Governor [Kalikoaio] founded a village at Nāwiliwili
that eventually developed into Lihu‘e. According to Hannam and Creed (1993), the name
Lihu‘e was not consistently used until the establishment of commercial sugar cane agriculture in
the middle 19th century; and from the 1830s to the 1860s, the names Nāwiliwili and Lihu‘e
were used interchangeably to some extent to refer to a settlement along Nāwiliwili Bay. Some
sources attribute the decision to call this area Lihu‘e (literally translated as "cold chill") to Kalikioewa, who apparently named it after his nearby upcountry home. Waima‘e and Kōloa were preferred anchorages compared with Nāwiliwili, which opens directly east to the trade winds. Gales were known to blow ships onto the rocks. During the whaling era, Kōloa, which was home to the earliest major commercial operations in the Hawaiian Islands, was the preferred anchorage because of the ready supply of nearby food stuffs for resupply of the ships.

By 1830, the sandalwood trade had waned and the whaling industry was just beginning. At the same time, commercial agriculture was being established on Kaua‘i. When the first crop of sugar cane was harvested at Kōloa, the king himself commanded that portions of his private land

be planted in cane. The Governor of Kaua‘i Kalikioewa in 1839 began farming the slopes of Nāwiliwili Bay where there was more rain than at Ėlosa (Dorrance and Morgan 2000). He also built a house and church in Nāwiliwili Akupā‘a.

Donohue (2001:94) describes Governor Kalikioewa’s attempt to establish the first commercial sugar mill and plantation in Lihu‘e in 1839:

During the early decades of Kōloa Plantation, other sugar plantations had started up on the island. One was to result in the secondarily of Lihu‘e in the principal town and seat of government on Kaua‘i, replacing Wai‘anae. When Kalikioewa was appointed governor, he located his home in what is now the Lihu‘e District. He planned to grow sugar cane but died in 1839 before his plans could be realized. Kalikioewa was responsible for the name [Lihu‘e], which means "cold chill," the name of his previous home at a higher and cooler altitude on O‘ahu.

Donohue (2001:94) describes observations by James Jarvis, who passed through Lihu‘e in 1838:

... [He] found only a church built by Kalikioewa and a few grass houses. He commented the governor had selected Hanamā‘ulu Bay as the harbor, "entirely overlooking the fact that it opened directly to the windward."

Kalikioewa died in 1839 soon after the start of the sugar plantation, which lasted only one year and closed down in 1840 (Dorrance and Morgan 2000).

Around this time, perhaps as late as 1842, the first missionaries settled in the Lihu‘e area led by Dr. and Mrs. Thomas Laidon, and assisted by Rev. and Mrs. Peter Gulick from Kōloa. Schools were opened, and some missionaries attempted to grow cotton as the first intensive cash crop, but were unsuccessful (Damon 1931).

An account of the United States Exploring Expedition, which passed through Lihu‘e in 1840, talks about the area, but also mentions the forced removal of samu‘ana from the coastal areas:

At noon they reached Lihue, a settlement lately undertaken by the Rev. Mr. Laidon, for the purpose of inducing the natives to remove from the sea-coast, thus abandoning their poor lands to cultivate the rich plains above. Mr. Laidon has the charge of the mission district lying between those of Kōloa and Waialua. This district [Lihu‘e] was a short time ago formed out of the other two.

The principal village is Nāwiliwili, ten miles east of Kōloa. This district contains about forty square miles, being twenty miles long by two broad. The soil is rich; it produces sugar-cane, taro, sweet-potatoes, beans, etc. The only market is that of Kōloa. The cane suffers somewhat from the high winds on the plains.

The temperature of Lihu‘e has much the same range as that of Kōloa, and the climate is pleasant: the trade-winds sweep over it uninterruptedly, and sufficient rain falls to keep the vegetation green throughout the year. No cattle are to be seen, although the pasturage is good. (Wilkes 1845:57-68)
With the death of Kalikoaewa, governorship of Kaua‘i was transferred for a brief period to his widow Keawealani. Then followed the brief tenure of Chiefess Kekuanaoahi and her husband Kealiikalani (son of King Kaumualii) after which the governorship passed to Paulo Kanoe in 1848. Kaua‘i had two houses overlooking Nāwiliwili Bay: one on the bluff south of Nāwiliwili Stream (the present site of Kaua‘i High School) and another at Papalālama, north of the bay (Damon 1931).

William DeWitt Alexander, son of Waipio missionary William P. Alexander, traveling from Koloa to the north shore of Kaua‘i in 1849 recorded some descriptive notes of Hanama‘ulu:

A few miles further on we crossed the picturesque valley of Hanama‘ulu. This valley is pretty bordered by groves of Kukui, koa, & hala trees, and is well cultivated with taro. A fine stream flows through the midst of it, which makes a remarkable bend at this place like a horse shoe. We then traveled along the seashore at the foot of a range of hills through groves of hau, & among hills of sand. It was now after dark, but the moon shone brightly, and there was no difficulty in finding our way. About eight o’clock we arrived at the banks of the Waialua river. (Kaua‘i Historical Society 1991:121)

One of the last vestiges of the pre-cash crop landscape is depicted in the diary entry for the Rice family’s arrival on Kaua‘i in 1854. During the second half of the nineteenth century, western settlers and entrepreneurs set their sights on southeast Kaua‘i. Damon describes the Lihue landscape at the time of the family’s arrival at Nāwiliwili Bay:

From the deck of their river craft in 1854 Mrs. Rice and the children could plainly see above the rocky shore and ruins of Kūhau, the old heiau, or temple, and nearby on the bluff the flowering boughs of a great willow tree among koa trees which ten grew almost down to the water’s edge. (Damon 1931:17-18)

### 4.2 Middle to Late 19th Century

The middle 19th century brought great changes to Lihue, including private and public land ownership laws known as the Mīhele (literally, ‘to divide’ or ‘to section’), and commercial sugar cane agriculture, which firmly established Lihue’s place in state and global economic markets. Coulter’s (1931) population density estimates for 1851 (Figure 7) show a relatively large settlement around Nāwiliwili Bay.

#### 4.2.1 The Mīhele

In the middle 19th century, during the time of Kamehameha III, a series of legal and legislative changes were brought about in the name of ‘land reform’ (see the works of Jon Chinin 1958, 1971 for a thorough and well-written explanation). Previous to the Mīhele (all land belonged to the akua (gods), held in trust for them by the paramount chief, and managed by subordinate chiefs. Following the enactment of a series of new laws from the middle 1840s to middle 1859, all land in the Hawaiian Kingdom was divided into three main types: government (or Crown) land, ali‘i (chiefly) lands; and commoner lands, which maka‘ānā (chiefly) lands; and commoner lands, which maka‘ānā (in principle) to own land parcels at which they were currently and actively cultivating and/or residing. In theory, this ‘set aside’ of hundreds of thousands of acres as potential maka‘ānā parcels ultimately led to about 10,000 claimants obtaining approximately 30,000 acres, while 252 chiefs, for example, divided up about a million acres. Many or most Hawaiians were simply disenfranchised by these acts.
4.2.1.1 Hanamāʻulu

Land Commission documents for Hanamāʻulu describe ʻIo, kula, and house sites along both sides of the Hanamāʻulu River, extending from the shore up to the village of Kapaha. Kula and ʻIo lands are often included together in one ʻipana (portion of a claim), with house sites belonging to separate ʻipana, slightly removed from the floodplain. There are four claims in the back bay area of Hanamāʻulu and two claims for house lots (LCA 3650 and 3653) near the beach, south of Kapaha Highway. Most of the ʻipana claims for Hanamāʻulu are located in lands that have been under sugar cane cultivation for much of the 20th century, occasionally, traditional artifacts can still be found in the cane fields.

4.2.1.2 Kalapaki

In Kalapaki Ahupuaʻa, kula (taro) ʻIo lands were on the north side of Nāwiliwili River (the wānake land in Claim 3907 on the south side of the river being the sole exception) and along the smaller drainages of Kalapaki and Koʻea ʻawa where there were also reportedly springs. Two streams, Koʻea ʻawa-ma and Koʻea ʻawa-liki, were also identified in the claims, but neither is named on current maps. These two streams, however, can be seen on an undated photograph on file at the Kauaʻi Museum (see Figure 2, above).

Most Kalapaki claimants lived at the shore in the kuleana kaualae, or, village of Kalapaki, located on Nāwiliwili Bay. Several claimants describe their village house lots in relation to the fishponds of Koʻea ʻawa (Koʻea ʻawa-ma & Koʻea ʻawa-liki). There is also a description of the asulua, or estuary, of Koʻea ʻawa-ma.

Claim 3640 mentions a footpath for the ʻili o ʻUliamuela near the shore at the boundary between Hanamāʻulu and Kalapaki. These documents therefore indicate a north/south path along the shoreline, and other paths going inland from the shore, which is a traditional transit pattern for Kauaʻi ahupuaʻa.

Paulo Kana, Governor of Kauaʻi at the time of the Māhele, claimed both the ahupuaʻa of Hanamāʻulu and Kalapaki but was awarded neither. Instead, Victoria Kamāmalu was awarded both ahupuaʻa under LCA (Land Commission Award) No. 7713.2. A portion of this award (7713.2 part 7) includes land within the present project area. Following the death of Victoria Kamāmalu in 1866, Princess Ruth Keʻelikolani inherited her lands. In 1870, Keʻelikolani sold large portions of her Kalapaki and Lihue lands to William Hyde Rice of Lihue Plantation. In addition, in 1870, Paul Isenberg purchased the ahupuaʻa of Hanamāʻulu from J.O. Dominitz, which includes the land of the present airport area. William Hyde Rice made subsequent land purchases from Princess Ruth in 1879:

William Hyde Rice, who already had his own home on the hill east of the mill, bought a large makai section of the ahupuaʻa of Kalapaki from Princess Ruth in 1879 and then conducted the Lihue Ranch. In later years he sold most of this land to the plantation. (Damon 1921:747)

The large tracts of inland areas (kula), not in the river valleys or at the shore, are not described in the claims but were probably in use. This kula land at the time of the Māhele belonged to Victoria Kamāmalu. Land use is not elaborated in her claims for Hanamāʻulu or Kalapaki. Traditional ʻipana resources for all claimants would have been medicines, herbs, construction materials such as pili grass and trees for building houses, canoes, and perhaps lithic materials for tools. Sweet potatoes and other dryland crops, such as wānake, probably were cultivated in patches throughout the area at one time or another.

4.2.1.3 Nāwiliwili

Victoria Kamāmalu was awarded over two thousand acres of Nāwiliwili Ahupuaʻa (LCA 7713), along with much of Niulii, Haiku and Puʻu, as well as Kalapaki and Hanamāʻulu. In addition to Kamāmalu's large award in Nāwiliwili, there were many smaller kuleana awards. According to Hammatt and Creed (1993):

Within the valley floor and adjacent to the alluvial plain (in Nāwiliwili) ... are 14 land Commission Awards for which there are no evidence available to the Land Commission records. ... The awards vary in size between one to two acres and are generally around one acre. The majority of land recorded is for ʻIo (wetland agriculture) but kula (dryland plots) are present as are a few houseslots.
In all there are 54 lo‘i recorded. Each award is generally two to three lo‘i plots. The largest award comprised eight lo‘i; a single award consisted of one lo‘i. All awards contained lo‘i and nine of the fifteen total awards had ku‘ia lots. Without exception, the nine awards containing ku‘ia mention only one ku‘ia per award. This is of interest because it shows that the alluvial land was not entirely dedicated to wetland planting and that a small ku‘ia lot was essential for subsistence agriculture.

Some awards at Nāwiliwili mention houleloilou along the shoreline.

4.2.2 Commercial Sugar Cane Agriculture

As a direct result of the availability of large tracts of land for sale during the Māhele, in 1849, Lihue Plantation “was established on the site Kākilo‘e‘ua had chosen, and the cluster of homes and stores around it was the start of the town of Lihue.” (Donohugh 2001:94). The plantation was started by Henry A. Pierce, Judge Wes. Little Lee, chairman of the Land Commission, and Charles Reed Bishop, doing business as Henry A. Pierce and Company (Damon 1931). The first 3,000 acres were purchased in Nāwiliwili and at additional 300 acres were purchased in Ahukai in 1866. The Lihue Plantation became the most modern plantation at that time in all Hawai‘i. It featured a steam-powered mill built in 1853, the first use of steam power on a Hawaiian sugar plantation, and the ten-mile-long Hananā‘ulu Ditch built in 1856 by plantation manager William H. Rice, the first large-scale irrigation project for any of the sugar plantations (Moffatt and Fitzpatrick 1995:10). Dorrance and Morgan (2000:28) provide a slightly different list of achievements for Lihue Plantation: “The first irrigation ditch in Hawai‘i was dug in 1857 [at Lihue], and in 1859 the first steam engine in a Hawai‘i mill was installed at Lihue Plantation.”

The residential and administrative heart of Lihue Plantation was located in the western portion of the subject project area, now downtown Lihue. It was Lihue’s political center and most developed area. There are many documentary resources about the history of commercial sugar cane in Lihue (see, e.g., the Kauai Museum’s website, http://www.kauaimuseum.org). Dorrance and Morgan (2000) have summarized highlights of the history of both the Lihue and Hananā‘ulu Plantations (see pp. 28-29), and there are other, more detailed histories of these operations (e.g., Condé and Bext 1973; Wilcox 1996; Donohugh 2001).

The success of the Lihue Plantation allowed it to continue to expand. When the owner of Hananā‘ulu Ahupua‘a, Victoria Kamāmalu, died in 1870, all 9,177 acres in the ahupua‘a were purchased by Paul Ishenberg, the manager of Lihue Plantation from 1862-1876 (Damon 1931:742-747). By 1870, the plantation owned 17,000 acres in Hananā‘ulu. A total of 30,000 leased acres in Wailua were later added in 1875. Lihue Plantation built a second mill in 1877, north and west of the present airport, recorded in an 1885 map of Hananā‘ulu Bay by Lt. George G. Jackson. This mill operated until 1920, when it was converted into housing for laborers.

4.2.3 Changing District Names

The traditional districts, or moku, of Kauai were replaced in the middle to later part of the 19th century by modern political-district names (Figure 8). Given its economic importance to the island, Lihue became the modern district name, as described by Rice:

...
Figure 11. 1936 map of the political districts of the County of Kaua'i, Territory of Hawai'i

Figure 12. Detail of late 19th century Hawaiian Government Survey map clearly showing the general footprint area of the proposed project not yet under cultivation of sugar cane
4.3 Twentieth Century

This subsection documents important aspects of the 20th century history of the subject project area. It includes previously gathered interviews with kāne, kūpuna and other residents of Kaua‘i, and ongoing practices and uses of the landscape. The emphasis in this subsection is on personal histories and remembrances of kūpuna (elders), rather than repetition of other widely available information.

4.3.1 Li‘u‘e Plantation

Commercial sugar cane agriculture continued in Li‘u‘e until 2000, when it and the Kekaha Sugar Co. finally shut down and terminated approximately 400 workers. The nearby Kipu Plantation, founded in 1907, operated until 1942 (Dorrance and Morgan 2000).

Li‘u‘e Plantation remained a vibrant and successful commercial operation throughout most of the 20th century, in part, because of a continued interest in technological innovation (Figure 10). For example, in 1912, Li‘u‘e Plantation installed two 245-kilowatt generators above the cane fields on the slopes of Kilotana Crater, becoming one of the first hydroelectric power producers (along with Kekaha, Kaua‘i) in the Hawaiian Islands (Dorrance and Morgan 2000).

There are many first-hand recollections about life in the early 20th century plantation days of Li‘u‘e, including extensive documentary archives maintained by the historical museum at Grove Farm Homestead.

The following example, which appeared in the Honolulu Advertiser (24 April 2000), and was written by Jan TenBruggencate, describes the struggles of 78-year-old Tadeo Suemori to keep his house at the so-called Rice Camp. Suemori was born and lived his whole life at this house, which was previously one of a total of 18 plantation cottages on a 14-acre parcel owned by Wm. Hyde, Ltd. When the landowner began moving people out in 1989 to sell the property to the museum, Suemori refused to vacate. "They never evicted me," he said. "I ain't moving out." (TenBruggencate 2000:81-82). He was eventually allowed to rent the place for the remainder of his life, but had wished to restore and rehabilitate his old Rice Camp. The article continues:

He is concerned about the environment, and particularly about pollution in Nawiliwili Stream, which runs below his house. It was clean when he and his childhood friends skinny-dipped there while the U.S. stock market was crashing in 1929. It was the place where they caught prawns and ‘opelu and frogs... Today the streams run brown and smells bad. Only a few frogs and mosquito fish live there. That angers Suemori. He wants someone to clean it up. (TenBruggencate 2000:81-82)

According to the article, the Grove Farm Homestead Museum director hoped to document Suemori’s oral history, which includes knowledge of many Hawaiian-Portuguese, Chinese-Hawaiian, Japanese, and Spanish-Filipino families that used to live nearby.

Figure 13. Li‘u‘e Plantation Co. in 1941 with subject project area in lower left-hand portion of the image (source: Condé and Best 1973:168)

4.3.2 Ahukini Port and Village

There are many remembrances about the nearly-forgotten port village of Ahukini, located at the northern end of the proposed Bike-Pedestrian Path, but also referring more generally to the coastal area of Hanamāpu‘u (Figure 11). According to Donohue (2001), a dock for large ships was initially built at Ahukini in 1921 because Hanamāpu‘u Bay, totally exposed to the trade winds, was so treacherous. In 1950, Ahukini was abandoned as a commercial dock in favor of Nawiliwili Bay.

An excellent series of newspaper articles by Lucinda Baptiste in The Garden Island (appearing in November of 1993) documented important aspects of Ahukini’s 20th century history, including numerous kūpuna recollections about the place. According to Baptiste (1993a:1) until the tidal wave of 1946, Ahukini was Kaua‘i’s “most modern first-class wharf,” supplying fuel (Standard Oil Company) and other materials to the west side of the island while Port Allen (‘Ele‘ele) supplied the west side.

Baptiste interviewed Sanji Fujii, one of Ahukini’s oldest survivors, who talked about the origins of the little port, which was the first on Kaua‘i where large passenger ships could dock.
In 1919, Lihue Plantation wanted to start shipping raw sugar in bags to the mainland, so they started building the breakwater in Ahukini ... There was a channel that allowed the ships to come in here and turn around and then go over to the pier. (Baptiste 1993a:1)

Before this, passenger ships had to drop anchor in Nawiliwili Bay and send passengers to shore at Ahukini in small launches. Fujii talks about meeting his parents upon their return from Honolulu:

They didn’t have the Nawiliwili breakwater at that time and the water was rough. Then with the waves, the launch would go up and down. When the waves go up, then the big Hawaiian sailors would catch those Japanese and swash, throw them up on the pier. (Baptiste 1993a:1)

Baptiste also interviewed Masao Yotsuda, whose father (Masakichi Yotsuda) moved the family to Ahukini in 1920. The younger Yotsuda became a stevedore at the Ahukini docks, eventually joining a dockworkers’ strike that also included the Port Allen workers. During interviews with several members of the Yotsuda family, Baptiste documented the impact of these events on the families of Ahukini:

Striking workers were no longer welcome in company housing. According to Masao’s sister, Fina Shoka, “That is when we all moved out of Ahukini.” Roughly 100 people moved to the old skating rink in Nawiliwili, which sat where Hale Kauai is located today. “The whole town of Ahukini stayed in one building,” says Robert Yotsuda. “If the community wasn’t tight-knit, we’d never have been able to live in one building for 10 months. Nobody had never quarrels or fights.” ...The historical role of Kauai is in Ahukini and Port Allen. You talk about political revolution, that’s where it started,” said Robert. “That’s the beginning of the Democratic Party on Kauai.” (Baptiste 1993a:5)

Baptiste’s series also documented the impacts of the 1946 tidal wave on Ahukini, which had been transformed by the 1930s and 1940s into a relatively prosperous little port village. Robert Yotsuda talked fondly about those days, and the effects of the big wave:

...Coconut groves, fish, we used to fish all the time. We caught little fish with our little bamboo poles. We’d stand around and crabs crawling on our feet ... Since the tidal wave in 1946, the path of the Hanamaulu river has changed. It changed the bottom of the ocean, too. Fish were in the trees all over. (Baptiste 1993b:1)

Baptiste’s series ends with several people talking about the present and future importance of the Ahukini pier for subsistence and recreational fishing. One man suggested that the loss of shade trees in and around the fishing area has been a detriment to good fishing, since “[f]ish don’t like to stay in the open.” (Baptiste 1993b:2)

4.3.3 The Development of Nawiliwili Harbor

The federal River and Harbor Act of March 2, 1919 authorized the construction of a modern harbor at Nawiliwili. Some aspects of the construction phases of this bay can be gleaned from historic maps and aerial photographs (Figures 12–14).

The selection of Nawiliwili as the harbor of the future on Kauai was preceded by a year’s worth of debate between advocates of Hanapepe and Nawiliwili. The specifications for the harbor included support from local government and business interests:

Upon completion of a rubble-mouth breakwater 2,450 feet long along the reef dividing the inner and outer harbors, the entrance channel would be dredged to a depth of 35 feet, a minimum width of 400 feet, and a length of 2,400 feet. Also included in the estimated cost of $1,065,062 was a harbor basin 35 feet deep, 1,025 feet wide, and averaging 2,000 feet in length. The same act provided an initial appropriation of $250,000 for construction of the harbor. Local interests were to assure eventual railroad connections between Nawiliwili and the southern part of the island 'in reasonable time,' while the Territory of Hawaii or the
County of Kauai was to give the Secretary of War $200,000 toward the project. (van Hofsten 1970: 12)

The dredged material would be used as fill for the proposed wharf areas.

Construction of the breakwater, the initial phase of the harbor project, began in October 1921. By 1924, a total of 1,454 feet of breakwater had been set in place. However, dredging within the now semi-protected bay could not begin until the Territorial Legislature appropriated the $200,000 promised to the project. Action by the legislature was delayed when the sugar companies on west Kauai—continuing to press for Port Allen at Hanapāpēi as the island’s major harbor facility—threatened to boycott the Nāwiliwili harbor after its completion. The Legislature finally approved its share of the funding in 1925, and the breakwater was completed in March 1926. Development of the harbor continued space as:

...the Territory took over the Federal camp and equipment and began construction of a concrete wharf. As soon as the Government dredge A. Mackenzie finished [dredge work] at Hilo she began work at Nāwiliwili in fiscal year 1929, and dredging was completed in July 1930. The official opening of the $1.3 million harbor on 12 July inaugurated an entrance channel 600 feet wide, 2,400 feet long, and 35 feet deep; a harbor basin 1,100 feet wide, 2,000 feet long, and 35 feet deep; and a rubble mound breakwater 2,150 feet long. (van Hofsten 1970:18–19)

Construction of the wharf facilities continued throughout the 1930s.

Figure 15. Portion of 1910 US Geological Survey map of Nāwiliwili and the subject parcel to its immediate north
Figure 16. 1924 photograph showing Nāwiliwili Bay before construction of the harbor facility on the north side of the bay (Bishop Museum Archives)

Figure 17. Circa 1930 photograph showing Nāwiliwili Harbor under construction (Bishop Museum Archives)

Historic maps and photographs document Nāwiliwili Bay before and after the construction of the harbor. A USGS map of 1910 shows the original configuration of the shoreline at Nāwiliwili Bay before the construction of the harbor (see Figure 12). The early stages of the breakwater construction are evident in an aerial photograph taken on July 4, 1924 (see Figure 13), in which the end of the newly constructed breakwater is visible in the left-central portion of the photograph. Construction of the harbor facility on the north side of the bay had not yet begun by this time.

Another aerial photograph from c. 1930 shows the continued development of the harbor (see Figure 14). By this time, the filling-in for the harbor had not been completed; the area of the current pier facility is still open water; the land behind the constructed jetty was built up by imported fill. More recent maps of the harbor, compared with the 1910 map, reveal that the modern pier area is located entirely upon a 20th century landfill.

4.3.4 Consultation for Nāwiliwili Harbor Improvement Project

Cultural Surveys Hawai‘i, Inc. (CSH) conducted interviews and extended email exchanges with several local residents and Kumu ‘Ike in conjunction with a historical and cultural assessment of a proposed improvement project at Nāwiliwili Harbor (Chingji et al. 2004). Four of these interviews are reproduced here, followed by some synthesizing comments. The interviewees were asked about their knowledge and/or concerns about traditional cultural resources, practices, and beliefs specifically related to the Nāwiliwili Harbor project area.
4.3.4. James Burgess

Mr. James Burgess was born in Niulenu in 1924. He is a life-long Kauai resident and is a respected elder in the Royal Order of Kamehameha, Kaumualii’s Chapter. He spent his childhood in Niulenu and has continued to visit and participate in activities in the area up to the present. Mr. Burgess (JB) was interviewed by CSIR at the Niulenu Pavilion on October 11, 2001.

Mr. Burgess was shown some historic photos of the Niulenu bay and harbor.

JB: When they were building this breakwater, they had a bridge going across here. This was the Niulenu River, the stream. We call it Niulenu River but it’s actually a stream. Like I said they had a bridge going across here for transporting men and everything else to build this breakwater. I was born in June of 1924. We lived here when I was about six years old. When we left Niulenu here and went to the west side. My dad got a job as a judge on the west side.

CSH: Where in Niulenu did you live?

JB: This road here. Maybe about a hundred yards in, there’s a big green house over there. That’s where us children were born in that house. Like I said, when I was five or six years old we moved to the west side. My dad got a job as a judge in Waimea. Then we came back here in 1938.

CSH: So you were about fourteen at the time you came back.

JB: Yeah. 1938 we came back here and at that time of course all of this was wide open ocean. Ocean all the way out to the piers now. But like I said I was very familiar with this area. And then we went here in 1942. I graduated from Kauai High School, which is right up here. This place is all different now.

CSH: Maybe you can describe what it was like when you were growing up here. What kind of people were living here do in the bay? What kind of activities?

JB: Everybody fished. Hawaiians did a lot of fishing. I did a lot of throw net, trolling, and stuff like that. Like I said this was all open – just like paradise. And the development that has happened, in my growing up even, was fantastic. They had homes over here for the people that were working on the breakwater. Bungalows. They had quite a number of bungalows over here. Like I said, all this was wide open. Crabbing – Samoan crab, white kahuku crab. We did just about everything. And then of course there was the river. And the river: muller was kouholi; they had kouholi on mullet. Life has changed drastically, in my mind – doesn’t make it comfortable. You see so much progress, so many people coming in. They don’t know what they’re doing anyway. And of course governmental agencies attempt to make things better. But better or not – hard to say.

CSH: So when you noticed people using the bay, it was mostly for subsistence, to eat?

JB: Very little sport. Lot of it was for subsistence. Like we used to have – Mike Conely, who had the kouholi for the mullet. In fact he had kouholi in this area.

They had hukilani nets. They used to hukilani here for akua. Make a surround and then put the nets on the boat, bring ‘em down here. And then the people take out the fish from the nets. And then everybody gets share. Everybody that works gets share. Used to have turtles in the bay. We used to go out and harpoon turtle. You go out and catch one turtle. That’s enough for the family. And share with the guys on the boat. So like I said my recollection of this area is all dreams now.

CSH: In the 1930s, could you guess how big the population was down here? How many families?

JB: Well, there were quite a number of families because in this area you would be considering going toward the hill, in the valley. Then going up this side, families, I would say a hundred, maybe little over a hundred families. And then you had families on this side too. And on this side maybe you had six or eight homes, on the right side, going down. Of course, now I don’t know how many there are. But I would say better than a hundred, between a hundred and two hundred families in this particular area.

CSH: All Hawaiian?


CSH: When you were growing up in the ‘30s, was there just the original harbor construction? With the breakwater here, the jetty on this side, the pier over here?

JB: They even had a factory, a fish factory. Right around the bend where the end of the – Commercial fishermen used to bring in fish and they would process it at that factory over there. Right at the bend over here, Shannon, the guy’s name was Shannon, I remember correctly. Right close to the bank there was a fish factory. So commercial fishermen who had fished out in the ocean would bring in marlin and big fish and process it at that factory.

CSH: But in this area where you folks lived, it was all open? Was there no development of the harbor?

JB: Oh, yeah. Nothing, no development. Like I say, only the bridge that came across here. Other than that, the fish factory was only in this area, and this is Kalapaki side.

CSH: Would other people from outside Niulenu come down here to go fishing –

JB: Oh, yeah. Like I said, this was a place that everybody came. From Kapaa, from the west side. We had friends that used to come down here. And of course this was the pavilion all the time. This area. This pavilion – I think this concrete is the original. Of course with [Hurricane] Iniki and everything else, they’ve expanded. But people used to come down. In fact, we built us an eighteen-foot long flat bottom boat. So people used to come down, camp. I had a motor that I used to take kids out, lay crab nets, go up the river.

CSH: Did many people have boats?
Cultural Surveys Hawaii: Job Code: NAWI/WEL1.2  

Historical Background

JB: Oh, yeah. You would find maybe about – anchored out in this ocean – because from these trees out was wide open – you would find maybe like about nine, ten boats anchored out here. People would anchor their boat rather than take ‘em home. I used to take my motor, carry ‘em on my back, go back to the house. So that buggah no disappear.

CSH: So you folks came back to the same house?

JB: Yeah, we were born there. Then we left. Then we were fortunate enough to get the same house back again. So I used to walk up here to go to Kaua’i High School.

CSH: Is the house still there?

JB: The house is still there. Every so often I come down and take a ride, go up to the Menehune Fishpond. Even that Menehune Fishpond – I don’t know if you’ve been up to see it yet. It takes two days and goes up on the hill. Not too far. And my recollection of those days, they had nothing on the wall. Now it’s all mangrove and that’s a project I think the state or somebody should try to look at and restore. Not necessarily all the rocks, but at least to clean it up to see what the value is. Beautiful the place so people can understand what it’s all about.

CSH: So we’re up to the ‘40s.

JB: The war broke out in ‘41. December ‘41. In fact, that morning I was on my way out to go fishing.

CSH: You folks were living here then.

JB: Yeah, we were still living here. And then we left in 1942, after the war started. We had property up in Waialua House lots where I live now. It was sad because the war broke out but it’s one of the things that happens.

CSH: So that’s when you moved away again, in ‘42?

JB: Yeah, in ‘42 we left here to go on our own property. Up to that point my parents were renting this house here. For four years we lived here. I went to Kaua’i High School. And then we left in ‘42. At that time I was working in the U.S. Army Engineers in Mānā.

CSH: In the ‘40s, you still came back here occasionally?

JB: Oh, yes. In the ‘40s, yes.

CSH: Maybe we can take it by decades, the changes you’ve seen. In the ‘40s, say after ‘42, when you’d come down here was it still pretty much the same? Just the harbor out here [shown in the ca. 1930 photograph]?

JB: Yeah, the harbor and then the pier. Yeah. Of course, the jetty in the ‘40s was built. The jetty was built. And they even had a nightclub over here on the jetty. They used to call it the “Jetty Club”. The Oye’s put up a nightclub over here. Of course the jetty is all develop now. Had nothing over here except for the Jetty Club. And of course the pier. The pier was over here.

CSH: In the ‘40s you were still fishing and –

JB: Oh, yeah. I used to come down here, go throw net, go across the breakwater. You could walk across on a sandbar with your throw net. And of course we had a boat that we could bring down but – I live in Waialua, see. It was no sense to bring it from Waialua, to come down here. So I used to take my throw net and my fish bag and walk across. I got to learn all the spots where the fish used to come.

CSH: Were there still a lot of regular people fishing? The same people you’d see every time you’d come down?

JB: Yeah, because the local people that still lived here – There was a Chinese family, the Chows. One of the boys just passed away recently. But they lived up in the valley. Like I said, for food. A big family – the Chows must have had about eight or nine children. And of course offspurting after that comes.

CSH: So we’re still talking about people coming for subsistence fishing, netting?

JB: Yes. Those days, whatever fish we could catch, you didn’t have to go buy.

CSH: So basically in the ‘40s it was still pretty much like what you remember from the ‘30s. Let’s try to figure out when you started feeling something was different. Were the fish still plentiful?

JB: Plenty. And this big open space. Now not too much space because everything is all built in: the boat harbor, the development over there. I guess the development was necessary due to the transporting or bringing in of equipment and material.

CSH: You’re talking about the development of the harbor?

JB: Yeah. But this used to be like paradise. There were times in the late ‘40s, early ‘50s that I used to transport my boat down here and then go out east, go trolling. All the way to Kaipākai, around this bend. Times that I’ll never forget and I only can dream about here now.

CSH: What about in the ‘50s, ‘60s? Any changes?

JB: Yeah, it started to develop. They added a pier. Used to be only one pier – to take inter-island barges that came in. And the boats: the Hu‘a‘alai, the Wai‘ale‘ale, inter-island boats.

CSH: That was the original use of the harbor, for the inter-island –

JB: Yeah, the inter-island barges and the inter-island transportation.

CSH: So back in the ‘50s, ‘60s, fishing was still okay?

JB: Oh, yeah. As I can recollect up to the ‘60s the fishing in this area was still good. I still used to go, like I say, surround net for akule in the harbor, in the harbor. In this area over here. In fact, sometimes in this area down here. There used to be a boy that used to go up on that mountain. He went daily. In the ‘50s, the ‘40s. This old man that lived down here, George Kanekaha. He used to climb this mountain daily to go spot fish. I’d be in school and when he spotted fish I used to run home, come down home, take off. [Laughter] In the ‘40s. Because I graduated high
school in 1942. The war came in '41 and I graduated in '42. He climbed up the mountain and when he spotted the fish and if they were in the right area, then he would -- He had one red flag that he would raise up. The guys on the boat they would watch him and he'd direct them with the flag. Just like paradise. Then later on they started to use the planes. Progress.

CSH: At that time, there was no canoeing yet.

JB: Canoeing started in the early '50s. In fact, I belong to an organization, the Royal Order of Namahana -- Up to that point I don't recollect any local canoe, Hawaiian canoes. You're talking about the Hawaiian canoe, right? I don't remember any of those ill -- Our organization, we were fortunate enough to get two canoes from O'ahu. I can't recollect who it was from, right now. But we brought in these two canoes and we had to refurbish them. Because they all were in a state of disrepair.

CSH: Those were koa canoes? Not fiberglass?

JB: No, not fiberglass. That was the original koa, six-man canoes. So we brought 'em over here.

CSH: Do you remember what year that was?

JB: That was in 1952 or '53. After we brought these canoes in, we used to train from over here. After we refurbished them we used to train over there. That's how started the Kaua'i Canoe Club. At that time, I don't recollect anybody else that had canoes. So we used to share with people that were interested in canoeing. And that's a process to get members into our organization, too.

CSH: On all the island this was the only place --

JB: That I know of on Kaua'i. I don't know about the other islands, but on Kaua'i that was the beginning of the Kaua'i Canoe Association. And then the other groups started to develop, start making their own canoes.

CSH: Did you work on the canoes or did you paddle?

JB: I paddled. I refurbished. I paddled, trained. In this area, Niulalilo-Niwiliwili. And then, from my recollection, there were other canoes that were located and brought in to the island by different organizations.

CSH: But you folks were the first --

JB: The first, as far as I can recollect.

CSH: What was it like, paddling out here?

JB: Hard work. [Laughs]

CSH: We're getting closer to present time -- the '70s, '80s, and '90s. Can you summarize your feelings about how the harbor has changed the way people do things like fishing.

JB: I believe that the build-up in Niwiliwili, Niulalilo has gone to more commercial than anything else. We never had people living on the boats. If they came in with a boat, they would park their boat and come land with their tents. So the whole life system is different. In my personal opinion, it's a big waste.

CSH: How about the people living here? Has that changed?

JB: I don't know. All I can tell you is those people that knew each other a long time ago, they don't forget. But the new people, they go out and get new friends -- And with the amount of traffic that we have on the island today -- The traffic on the island is terrible. There's so much roadwork, construction that's going on. Everything that is being done today at Niwiliwili/Niulalilo, it looks like it's for people to associate in some kind sport or picnicking.

CSH: Based on what I've described of the pier project, any final thoughts on the project's impact to cultural practices in the harbor area?

JB: Well, my personal comment would be that I don't think that it would have any kind of cultural impact. It's the same like extending this industrial development that they have done here, expanding the area for commercial activity. So I cannot definitely say that I would consider what is being planned here to accommodate another boat there other than that you're just going to get more people coming, more often. But what do you do? What industry do we have that can sustain the economy of the island? I hate to see it develop any more than we can handle but how do you stop it? You cannot even stop immigrants from coming into the islands. Or into the United States. Live and let live. [Laughs] So I cannot say any adverse conditions on extending the pier so they can put in another boat. Maybe one of these days they gonna live up our or five, you know.

CSH: Do you think it's already been changed so much that you cannot go back --

JB: You cannot go back. Those cannot -- It never happen that they could restore the area to a comfortable situation. Because I'm sure like -- even in the sailboats here -- people are are living there. Why? Because they have their boat. They got free sewage system. Like us we build houses, we gotta put sewage, yeah. [Laughs.] Sometimes, I used to go up this road here to see the fishpond. And there's one spot up there that can overlook this area. Sometimes I cry. But it's for people that need subsistence to work. More people that means -- supposed to be more people spend money.

4.3.4.2 Robert Crowell

Mr. Robert Crowell has been the harbormaster at Niihau Harbor since 1958. Mr. Crowell (identified as RC in the transcript below) was interviewed by CSH at Niihau Harbor on October 11, 2001. Mr. Crowell began by discussing fishing practices inside at harah and the impact of the terrorist attacks of September 11, 2001 on harbor security procedures.

RC: Basically, I take on this, when I first came up here, being from Honolulu, there's very limited fishing off of pier in Honolulu because of commercial
activity. Here at Nāwiliwili Harbor because it was a lot slower we continued to let people fish on the piers. And that’s the biggest thing I think.

**CSH:** So there’s never been any restrictions until now [before the emergency measures put into place following the terrorist bombings of September 11, 2001].

**RC:** No. The only restrictions we have is because, in the early ’90s, we fenced off the whole compound, the whole harbors division area of the property. So, basically, people can only come in through walk-through gates. There’s no vehicular traffic allowed on the piers after hours. So there are a number of fishermen that were still doing that, prior to September 11th. They would come, bring their baskets, roll them in, and then go fishing. For haluik, menehune, or whatever they had. Like I said, when I came on board 1 continued the practice. I didn’t have any objections to that practice. And we still allow people to fish off of the jetty road, our interior seawall out here which is on harbors division property. They still go fishing there. We also still allow commercial net fishing within the harbor. We never did allow a ban on that. And in recent years, recent years I should say, there has been a conflict between recreational and commercial fishermen. The aikole fishermen, especially. I think the Department of Land and Natural Resources, the Aquatics Division, is taking an active step towards trying to resolve the conflict. Other than that, we still allow canoe races to happen within the harbor. There again they enter the harbor through the area at the end of our jetty there. They jump in their canoes there and use the harbor as their racing grounds. I think they have a six-lane quarter-mile course that they use.

**CSH:** Are they allowed also to practice inside of the harbor.

**RC:** They would be allowed to practice. However we don’t have that many that do. Our only rule is to stay out of commercial traffic. And that also goes for commercial, recreational fishing. Commercial fishermen, canoeing, kayaking, sailing. If you’re going to do it in the harbor, just stay out of the commercial traffic way. Because they lose that battle every time. And it’s basically for their safety so it would behave them to stand clear of the commercial traffic. And if you say, on this island, I don’t have any complaints with anyone. For the most part, they have stayed out of the way. I think at any time that we had a problem, if we had a problem, it was probably not a local. It was probably a stray from the hotel. That was in a kayak that was in the way of a ship. She gotta blow her horns and – But I don’t recall but one complaint in the time I’ve been here, since ’94, of any traffic crossing commercial traffic.

**CSH:** So, as far as something that we didn’t identify as traditional Hawaiian activities, besides canoeing and fishing, have you noticed anything else going on in the harbor that might relate to that kind of traditional practice?

**RC:** Not really. That’s about it. As I say, we have fenced off the area where we work containers, where we have developed container yards, where we’ve developed a cruise terminal. So people don’t have that kind of ready access to the area. Whether they would want [access] to this huge – acre of concrete – I’m not sure. But they don’t have readily available access to our pier areas.
CSH: So, irrespective of this project, there might be changes anyway [regarding public access and activities within the harbor]?

RC: Correct.

CSH: To summarize, you’ve been here since ’94?

RC: Yes.

CSH: Has it been basically a good relationship between the local community and the harbors division?

RC: I think so. I think this community is very understanding. They’ve understood reasons why we’ve had to close down areas. They understand why we’ve had to expand.

CSH: Have you had any complaints expressed to you? Or concerns expressed to you by any of the local folks?

RC: Very minor-type complaints. Like, "Can you open the bathrooms at night because we fish at night?" And, "Us men don’t need it but we’re thinking about the women out there." And stuff like that. And we accommodate. Like I said, the people here are very understanding. They’re very concerned about areas. And the fishermen in general, the regulars as we would call them, are very conscientious. I don’t have people trashing our place. They use the facility. We leave the bathrooms open for them. They treat it with respect and don’t abuse. I don’t have any problems with them on the pier. And I don’t think they have — Other than because we locked it — they don’t like that idea, I’m sure. But they understand. They don’t get a call everyday, kind of thing.

CSH: Would you discuss the conflict between the commercial and recreational akule fishermen?

RC: It has to do with commercial akule fishermen who are netters, who net the schools of akule versus the recreational akule fishermen off boats that basically handline or pole fish for the akule. And the conflict is that on occasion the commercial fishermen would come in to a harbor area, a calm area, where there may be a school of akule and the recreational guys who are in smaller boats would be over there fishing the akule. And then once they depart, the school is still there but the commercial guys will come in and surround, net up all of that akule and now the recreational guys no longer have that school to work off of. So I think [the aquatics division] is in the process, like I said, of trying to resolve that conflict. And drawing areas or boundaries where, limits where commercial can come only so far and surround only so much in, I guess, a calm area. Versus where the recreational guys can fish within that boundary for the school. And I don’t know how often the complaints come to me. There would be a couple of complaints about the commercial guys coming in and wiping out a school. But I had no jurisdiction over that because they weren’t really abusing or disobeying our laws, our rules.

The commercial guys, if they came in, if they did surround akule schools it would be on the off-hours, anyway, and didn’t impede commercial traffic.

CSH: Do you know how long this conflict has been going on?

RC: I imagine it was going on probably even before I came.

CSH: So all the time you’ve been here it’s been a problem?

RC: Yes. But you see even that hasn’t been that great where anybody has really done anything about it. I guess there is this abundance of akule on this island so I guess everybody felt that there was enough. It’s not only within Nāwiliwili Harbor either. The problem lies at Hanālī lagoon, Port Allen, Hanāpēlē Bay. I think even in Hanalei there’s the same problem. So I think it’s come to a head in recent years because some guys have taken it to their legislators.

CSH: Do you think this harbor project will have any impact on that situation?

RC: No. As a matter of fact, I don’t know how aquatics has drawn their line but I think the harbor expansion is out of the area that they’re concerned about. [Mr. Crowell was asked to comment on previous harbor expansion projects during his tenure as harbormaster.]

RC: Actually, Pier 3 opened in late ’94. And that sits on the far end. And that’s where Young Brothers operates off of now. And then what we did — We thought that we were too small of a dock, and out down our pier shed that was on Pier 1 that was formerly Young Brothers. And we rebuilt that pier. So, basically, Nāwiliwili is pretty much ahead of its time right now. We have two brand-new piers, as far as pier strength. We have a lot of working area, working cargo area. Expanding Pier 2 would enable us to use the area — more of an area for passenger ships. So, like, said, ’94 was the opening of the Pier 3 area where Young Brothers is. And then it took us a couple of years and Pier 1 was redeveloped.

CSH: And, as best you remember, at those times there were none there any concerns raised about the impact on traditional practices?

RC: As far as I can remember, no. None at all.

4.3.4.3 Cheryl Lovell-Obatake

Ms. Cheryl Lovell-Obatake is a Hawaiian cultural specialist and community activist. CSH prepared a list of questions for Ms. Lovell-Obatake and she kindly responded by email on October 14, 2001.

Ms. Lovell-Obatake was asked to describe her background in Nāwiliwili and Niulālu:

I was born in the Kona District, Waihee, Kauai, which is where my mother is from. I was raised in Kalapaki, Nāwiliwili and Niulālu, which is where my father is from. My paternal grandfather (Lovell) was born 1895 and raised in Nāwiliwili.
his entire life. His father was also born (1861) and raised in Nawaiwili. My 3rd
great-grandparents were also raised in Nawaiwili.

My ohana are one of the few Hawaiians that still retain possession of koleana
lands (L.C.A.) in Nawaiwili, Niululu & Kalapaki. My ohana were known
fishermen and surfers.

I was the community monitor for Nawaiwili Cemetery (previously known as
Kalapaki Memorial Gardens which Cultural Survey of Hawaii was hired for
archaeological testing and disinterment and re-interment of na iwi kupuna around
1989, 1990s or so...

Who am I? What am I? I am the hawk in the community...How old am I? Only
47.

I did a lot of fishing in my younger days until I left to college in 1972. My father,
my mother, my uncle taught me how to fish.

My uncle & I often visited the pohaku site which Papalulahone Stream discharges
under pier 2 at the harbor. There is a pohaku which the moli would rub their
belly or feed on certain nutrients during certain seasons. Besides moli, akehu hole,
palani, papi, oama, weke, monpaalai, eweo weo, akule, halalo were caught by
pole fishing under and off the pier.

Although there exists the name of a fish (moi), a fish eaten by royalty, there is
another Moi (kahuna), name of a kahuna and yet a ranking individual (moi's) that
had certain responsibilities to fulfill in the area, such as for the villagers and royalties
of ancient times. This pohaku could well be a selected place where rituals took
place (Makahiki) as I was told. There are twin reefs that extend from the County
park at Nawaiwili to Union 76. That was all filled in. The reef was a natural
habitat area for marine life, such as fish, shellfish, octopus, sharks, turtles etc.
1860-1890's. I was told that a woman from the area fed the sharks along the
shorelines going to Niululu. There also was an ancient heiau site near by the
sugar bulk, above or below? Although destroyed, or leveled, the site is considered
sacred. The sacredness of the spot was determined by elements in the sky (stars,
moon, etc.)

Kuhiala heiau the largest on the island is about four acres and is located at Lawai
High School (pauahi type). Pauahi's located on the reef at Kalapaki by the
seawall. She is the sister rock of Kuhialu heiau. Another rock located in the middle
of Kalapaki Beach is Mukawesu. This is an ancient site which there existed
another kahuna that fed the fish and the sharks. There were plenty fish in the area.
My grandmother (born 4/12/1892) told me of her experiences catching a fish with
her holulu (long dress). The story is written in Alakumaumualal “You Love Fish?”

Ms. Lovell-Obatake was as asked to describe Hawaiian cultural practices that she had
observed fishing in Nawaiwili Bay over the years:

Fishing still exists in Nawaiwili. Shoreline fishing (on the pier) by the jetty,
across the breakwater, Niululu (small boat harbor), etc. Also net fishing
(surround). DLNR, State politicians are currently reviewing a HB restricting
certain areas for (surround) net fishing. There has been no resolution thus far
and no bill was passed.

As I recall the (Keith Nitta) who attended the 2005 Harbor Master Plan
informational meetings indicated that the County along with the State are
considering closing the bottom road (near pier 2) which may also eliminate
fishing access to the pier and along that area where people fish.

I am concerned about Native Hawaiian Fishing Rights. PASH Ko'olau
Supreme Court Ruling. Check with Davinna McGregor, Jon Matsuo, Luciano
Minerbi who were assigned by State Office of Planning to implement the law.

Ms. Lovell-Obatake was asked to comment on the impact of the pier project on Hawaiian
cultural practices.

The State system has in the past inadvertently over expanded on the submerged
lands that exist. Proper control was overlooked, therefore cultural practitioners
and other ethnic groups have a small wiggle area to fish at Nawaiwili. Many of us
have our own favorite spots to fish. Pier 2 is one shared by many for fishing.

I have witnessed (observed) more modern commercial economic practices
encroaching on cultural practices. Politics!

Ms. Lovell-Obatake was asked if she knew of any important cultural sites in the harbor
that would be affected by the pier project. She was also asked if there were other cultural concerns
she had in regard to the project. Ms. Lovell-Obatake declined to respond to these questions. She
explained:

Within the perimeters of the project? Its tax map key and boundaries? I have a
hard time staying within boundaries. Cultural sites (wai`i pana) have connections.
If I were to comment on another cultural site nearby, not within the boundaries of
this project I would be irrelevant in the eyes and ears of the accepting authority.
You have not provided me with a map “MK” of where you are specifically
covering.

4.3.4. William Kikuchi

The late Dr. William Pila Kikuchi was for many years a professor of archaeology at Kaua‘i
Community College until his retirement in 2006. He was a leading expert on Hawaiian
fishponds. William Kikuchi (WK) was interviewed by CHS by telephone on December 11, 2001.

CSH: Would you discuss where information on traditional Hawaiian culture and cultural
practices in the Nawaiwili/Niululu area can be found?

WK: Material that was published, especially the Kaua‘i Historical Society material
about the stories of Niululu and all fish. Another place you can get some stuff on
that is the environmental impact statement about the Nāwiliwili Community Association or the Nāmāhu Community Association, when they were working on trying to evict those people... the current Nāwiliwili pier... was (once) all swamp. And the most interesting site, I thought was Nāmāhu, that area, because of these stories. And if you go west, there is a whole bunch of fishponds, and they’re still there, I think. But that’s out of your area.

CSH: Our research indicates that the pier area is landfill created in the 1920s and 1930s.

WK: That’s right. I wasn’t too concerned because it was all filled up. And they had to tear down that side of the mountain. That’s where they have that interesting rock formation and fill that for the harbor. And the other one that I was concerned for was Papaliihaua. So, everything else I know of that area was simply - not through archeological stuff - because when we came it was still all we did was cursory historical, cultural things like that.

CSH: When you say “when we came” what year was that?

WK: 1972. We kind of got involved with the Nāwiliwili Community Association or the Nāmāhu one. And if you take material from that – I don’t think it was published in any kind of form. But that was interesting because they would bring out roughly the same kinds of concerns I think you’re going to receive up there for the pier renovation project. But your area may be easier because it’s all filled in.

CSH: What Hawaiian cultural practices have you observed taking place in Nāwiliwili Harbor over the years?

WK: Just fishing and the canoe. Canoe landing. That’s about all I’ve ever observed.

CSH: What impact do you think the... project will have on these practices?

WK: Well, I think most of it has gone into the river now. It looks like it went into Hīlīa River. So I don’t think the expansion will have too much of an impact.

CSH: Are there any important cultural sites that you know of in the harbor that would be affected by the project?

WK: No. I wish I did. I wish I had information but, like I said, all the stuff I saw was actually in Kalapaki Bay. And the rest of the stuff was on land.

CSH: Are there any other cultural concerns that you would have about the pier project?

WK: I think it’s just that it be sensitive to the people involved. Access, improve the water quality. Fishing off the pier.

CSH: Thank you.

4.3.5 Consultation for Proposed Development of Kaua‘i Lagoons Resort Property

CSH conducted a phone interview and an email exchange with two kumu hula in conjunction with a historical and cultural assessment of the proposed development of the Kaua‘i Lagoons Resort Property, which is located in prior sugar cane fields immediately south of the Līhu‘e airport (and within the general footprint area of the proposed project) (Mitchell et al. 2005). The interviewees were asked about their knowledge and/or concerns about traditional cultural resources, practices, and beliefs specifically related to the Kaua‘i Lagoons project area.

4.3.5 / Ms. Sabra Kamaka

Ms. Kamaka, a Kaua‘i Native Cultural Practitioner/Hawaiian Studies Kumuhuna, commented in an e-mail on Monday, October 24, 2005:

I live in the Kalapaki shāpua‘a of the Līhu‘e district of Kaua‘i. As a cultural practitioner I frequently visit Ninini Point for many reasons.

The first reason I go to Ninini is because it is a very beautiful place to practice my ‘oli and hula. There is nobody there to bother with my chanting and I can practice in relative privacy.

A second reason is because I bring kanaka malihini to Ninini to welcome them to Kaua‘i. From this point you can see all of the Ha‘upu Range, Nāwiliwili, Kīlauea, Wai‘ale‘ale, and the back side of Hale‘iwa. So we go there for welcoming protocol.

Third, I go to pick ‘ili ma‘ili papa and kaumaa to make lei for hula. As more and more development occurs along the coastline of Kaua‘i there are fewer and fewer places to pick these beautiful native species. The name of the halau that I belong to is Pua Ali‘i ‘ili ma‘ili, so the ‘ili ma‘ili flower is very important to us and we wear it whenever we can, if there’s enough to pick and make lei. My kumu hula is Victoria Holt Takamine. Our kaua‘i brani of Pua Ali‘i ‘ili ma‘ili is called Papa Luau o Makana. That tells you that we are also connected to Malana in Ha‘ena.

Fourthly, I go to malama the rare Sharwater birds that lay their eggs in the rock walls, boulders and bushes along the coast. I have been taking my 3rd and 4th grade students from Island School to count, capture, weigh, measure, and return the chicks to their nesting sites for the past two years. We have a special permit from the Department of Land & Natural Resources, State Forestry Division, to do this work. Last year we counted 38 chicks there. This year, unfortunately, a predator has eliminated them. We don’t know what predator it is but we couldn’t find any chicks. This bird is very important to me and my students because it teaches them the connection between the land and the ‘alo‘alo. It teaches them that what humans do at sea and on the land affect other life on earth. If the birds have nowhere to nest, their species will die. If they are not fish and squid to eat, if man overharvests the ocean, the birds will have nothing to eat. They are an indicator that there is still fish in the sea for them and for us. There is still land for them and for us.

While we are at Ninini, and this is the fifth reason, we malama the ‘alo‘alo by picking up ‘opala. There is a ha‘a at Ninini. Unfortunately, it’s overgrown with weeds and I have not yet cleaned it because I already have two other large areas of...
kuleana at Wailua and Nu'alei O Kei. I malama one place in the winter and one in the summer.

This past week my friends and I went out to watch the sunset over the Ha'upu range and moon rise at Ninini. The moon was soon followed by Mars, just a few degrees further north. Ninini is a great place to star watch, to teach people about the night sky, and to feel the pulse of nature.

There are many fishermen and surfers who also use this area. I would like to make sure that we all continue to have access to this beautiful and special area.

4.3.5.2 Ms. Cheryl Lovell-Obatake

Ms. Lovell-Obatake participated in a telephone interview with CSH on October 20, 2005:

I remember that Hal [Hamant of Cultural Surveys Hawaii'] did work there along the coast and Kalapaki Point. I am sure you will find cultural sites in his report.

Independently we still access the place today. Not many people go in — only certain ones because the area is the last remnant of open space with no buildings I never heard of any burials in the area of study and Nancy McMahon would verify that. It is important that we still have access rights to this land that will be developed. I remember some native plants in the area we used for medicine, such as the 'ailana.

I am very active in the fishing rights along the coastal regions of Kalapaki. My Uncle Enoka Lovell III, known as "Buddy", was a traditional practitioner when it came to fishing. He is also the one who salvaged the boat when it sank in Wailua. There are sacred trails that run from Nawiliwili side coming from Kalapaki Point along the coast.

4.3.6 Other Recollections and Remembrances

There are many other examples of diverse documents that attest to the historical and cultural importance of resources located in and around the subject project area. The following example could be augmented and expanded many times over should the need for additional data gathering arise in the future of the subject project.

4.3.6.1 Fishing the Houle'a at Night

In the 8 March 1997 Honolulu Advertiser, James Tamura, a Kauai-based attorney with family ties to the Garden Isle, contributed a remembrance entitled "Family life made rich by fishing" (in a special section "Reader's Journal"). Tamura talked about going to visit his 'ohana in the late 1950s and early 1960s. They lived "near the [lower] end of Huleia River, up a ways from the Manahine [Aleloko / Niulaulu] Fishpond" (Figure 4).

My uncles fished the river with a net Uncle Joe knit by hand that seemed like it was hundreds of feet long. They laid the net off the back of a flat-bottom tow boat traversing the river in a zigzag manner. Much to my horror, they would only go in the black of the night and liked taking me.

Huleia River at night is the scariest experience a person can have. The shadows of gnarly mangroves were everywhere, and I felt like we were being watched by something. Being frightened, wet and cold was more than a city kid could take. My granduncles, on the other hand, did not seem to be scared by anything.

We never failed to catch washed-up loads of papio, barracuda, mullet and Samoan crabs... The Huleia house has since been blown away by Hurricane Iwa and my family's land is now a federal bird sanctuary [Huleia National Wildlife Area]. I can still go there because of our family genealogy, but it's not the same without the laughter of the 'iapanu. God bless their souls.
Section 5 Archaeological Research

This section focuses on the most relevant archaeological research in and directly around the general footprint area of the proposed project. Results from previous studies of coastal and near-coastal areas of Hanamiiulu, Kalapaki, and Nawaiwili are briefly summarized. This is followed by a detailed treatment of prior research and results from the shoreline at Kalapaki and Hanamiiulu (south of the Hanamiiulu Stream), immediately east (makai) of the airport. Collectively, these observations provide some expectations regarding the types of cultural and historic resources that may be located in the subject project area.

The shoreline at Kalapaki and Hanamiiulu is the most sensitive archaeological area, most of the rest of the general footprint area has been substantially modified by commercial sugar cane operations, the development of Lihue Town, Nawaiwili Harbor, Ahukini port, and the airport, the Marriott resort and golf course, and other development. Except for its shoreline segment—which runs from Ahukini Landing (i.e., south-side of Hanamiiulu Bay) to Ninini Point (north side of Nawaiwili Bay), the proposed Bike/Pedestrian Path mostly travels along existing rights-of-way whose subsurface sediments have already been substantially disturbed. There are no extant heiau or reconstructions of heiau in the general footprint area of the proposed footprint, despite the fact that at least three large shrines were once located along the coast from Ahukini to Kiiki’i.

This archaeological review is based on a prior CSH report documenting the results of an archaeological inventory survey of the proposed impacts of improvements to Lihue Airport (Bell et al. 2000); and other original source materials from archaeological studies of the specific coastal area of concern (Hammatt 1988, 1990, Creed et al. 1999).

Figure 15 shows prior archaeological investigations in the general footprint area of the proposed project. Figure 16 shows historic properties that have been documented in this area as a result of these studies. These data show there are at least 33 known cultural and historic sites of interest in this area. 26 of these are historic properties listed on the State Inventory of Historic Properties (SIHP); the other seven sites of interest are cemeteries not listed on the SIHP.

Figure 18. Map of the Lihue area showing the location of previous archaeological projects

Cultural Impact Evaluation for Nawiiwili – Ahukini Bike/Pedestrian Path Project

TMIC: 41-2-004; 3-5-001; 012 & 3-6-002, 015, 020 and various plans.

Cultural Impact Evaluation for Nawiiwili – Ahukini Bike/Pedestrian Path Project

TMIC: 41-2-004; 3-5-001; 012 & 3-6-002, 015, 020 and various plans.
5.1 Early Documentation of Heiau

Thomas G. Thrum (1907), publisher of the Hawaiian Almanac, gathered lists of heiau on all the islands, and reported five from the uhupua’ta of Hanamāʻulu, Kalapaki and Nāwiliwili:

1. Nnini, Kalapaki, near site of Nāwiliwili light house; described as destroyed (SHHP No. 103)
2. Ahukini, Kalapaki; described as a heiau of medium size, with some foundation stones in evidence at the time of Thrum’s work (SHHP No. 101)
3. Pokakoele, Kalapaki; described as a medium-sized heiau, destroyed by the time of Thrum’s survey (no site number)
4. Kalaukianamu, Hanamāʻulu, described as a large walled heiau that stood above the present mill; destroyed around 1855- of oʻo kama (sacred) class (SHHP No. 102)
5. Kuhiau, Nāwiliwili, near site of court house - a large paved heiau, whose enclosure covered an area of about four acres; long since destroyed (SHHP No. 99). The rock Paunini, now separate from but formerly connected with the shore, was where the kulauna (priest) lived.

The first comprehensive archaeological survey of Kaua‘i was undertaken by Wendell Bennett in the late 1920s and published by the Bishop Museum in 1931. Bennett used Thrum’s list for reference and documented many additional (mostly non-heiau) sites. Bennett listed two heiau for Hanamāʻulu: Ahupua’a and one for Kalapaki (both described as “destroyed”). He also noted sand-dune burials (SHHP No. 103) towards the Waialua River (Figure 17).

Bennett repeats the descriptions provided by Thrum for the “destroyed” Sites 100-102, and adds the following:

Site 103. Dune burials. In the sand dunes that run along the shore halfway between Hanamāʻulu and Waialua River are many burials. (Bennett 1931:125)

Paunini Rock, a heiau or priest’s house now under water in Nāwiliwili harbor [this site is now designated SHHP No. 50-30-11-1999] (Bennett 1931:48).

In addition to SHHP No. 102, which is located outside (north) of the general footprint area of the proposed project, several other sand-dune burials or grave sites have been noted in Hanamāʻulu, for example, at Kōkōkō (SHHP Nos. 50-30-08-746 and -1827), documented by Rosendahl (1990) and CSH archaeologist Karpo Akana during a field survey of damage after Hurricane ‘Iniki by the Kaua‘i Island Burial Council in 1992.

In an archaeological reconnaissance survey for the Kaua‘i Lagoons Resort, a wall, possibly related to Nnini Heiau was noted by Hamnatt (1990:11): “A well constructed wall running 400’ north of Nnini Lighthouse [is a] probable prehistoric wall and [it is] possibly related to the former Nnini Heiau (SHHP No. 100).” A dune middens scatter (SHHP No. 421), two probable castle walls (SHHP Nos. 422 and 423), and an oval terrace alignment (SHHP No. 424) were also recorded in this area.

Bennett places Ahukini heiau (SHHP No. 101) “in Kalapaki, near Ahukini Point on the bluff overlooking the sea. This is now entirely destroyed.” (Bennett 1931:125)
An additional area of four acres was during this same year, 1851, sold to the government for harbor and road near Nawiliwili Bay. The first sighting point in this deed was the north corner of Kaua‘i heiau. (Damon 1931:415)

From the deck of their rivercraft in 1854 Mrs. Rice and the children could plainly see above the rocky shore the ruins of Kuhiau, the old heiau, or temple, and nearby on the bluff the flowering blossoms of a great willow tree among koa trees which grew almost thrown to the water’s edge (Thomson 1851:17)

On the bluff overlooking the bay of Nawiliwili, where the public High School now stands, was once the large paved heiau called Kuhiau, extending over about four acres of ground. It was in its day the largest and most far-famed temple on the island. Below it, in the bay, is still the rock called Paukiniki, which was said to be its companion or sister heiau, and was probably also the home of the kahuna, or priest, of Kuhiau. In ancient times this rock was connected with the shore near the site of the former boat landing. All the dredging and filling in for the modern wharves have not yet touched this old rock of Paukiniki, the sole remnant of the famous heiau of Nawiliwili Bay. For almost no traces, even of the great Kuhiau temple, are now [in 1931] to be found; and of the three small heiaus in the neighboring gulch of Kalapaiki, those of Nihini, Ahukiki and Pohako-elele, little more than the names survive (Damon 1931:397-398)

In a collection of Kauai Place names (Kelsey nd.), the heiau of Kuhiau is also mentioned.


Nawiliwili is the harbor. The temple of Kuhiau is there. Kalapaiki is on the shoreline of Nawiliwili.

Thrum placed the location of Kuhiau Heiau near the “Court House,” which is labeled on a 1881 Jackson map (see Figure 3) in an area called “Kuhiau.” Jackson does not label any structure as the “heiau,” so it may have been destroyed sometime between 1854, when Mrs. Rice and her children saw it from the harbor, and 1881, when Jackson made his map. According to Dr. William Kikuhi (personal communication), the heiau was destroyed when people took the rocks to use for other purposes. Its general location was near the ironwood tree next to the Kaua‘i High School flagpole (Kallia and Smith 1991:5-7). Nancy McEachron (SHPD Archaeologist for Kaua‘i) indicated that the Paukiniki Rock location in Kalapaiki Bay was shown to her by Cheryl Lovell-Obaika in 1999, and subsequently added to the State Inventory of Historic Properties (SHIP No. 1999).

Thrum gives the location of Kaluakamaua Heiau as “above the mill.” A 1934 Garden Island Press newspaper account and Ethel Damon give additional information on the location of this heiau.

Figure 20. Detail of Bennett’s (1931) map of Kaua‘i showing location of archaeological sites

Bennett (1931:152) lists Pohako-ele‘ele Heiau in Kalapaiki under “Kaua‘i sites not located.” Damon probably would have mentioned its location if she had known about it. She does not seem to be other references to Pohako-ele‘ele Heiau in Kalapaiki, and it is unknown if Damon used Thrum for her source, or if she knew the information from persons on Kaua‘i. Although Bennett could not verify its existence, and its location is speculative, it is included as a non-located site of pre-Contact Kalapaiki, passed down in local memory. There was a heiau in the neighboring (north) gulch of Wailua called Pohako-ele‘ele, said to have been located just mauka of the junction of ‘Ope‘eka‘a Stream and the Wailua River (Dickey 1917:29). It is possible that these two heiau are the same, and Thrum was confused on the location. It is also possible that this was the name of an unnamed heiau on Kōkī’s Point. Neither Thrum nor Bennett mention a heiau noted by Lt. George G. Jackson, Navy surveyor for the Hawaii Government Survey Office in 1881 (see Figure 3) at Kōkī’s Point. The Kaua‘i Community College newsletter, Archaeology on Kaua‘i (1973:4), notes that the “remain of ancient heiau” noted by Jackson are “where the cottages of the Kaua‘i Surf now stand.”

Ethel Damon (1931) mentions Kuhiau Heiau in Nawiliwili, placing it near the location of the Court House (see Figure 3). She mentions Pohako-ele‘ele, location unknown, and Paukiniki Rock (SHIP No. 1990), located at Kalapaiki Beach, Nawiliwili Bay.
Another heiau located in Hanamalu’ula is Kalaauokamanu. This was situated just west of the Lihue Plantation Yard and adjacent to a cane haul road. It is said to be of the po’okasakau [sacred] class and was destroyed in 1855. (Garden Island Press 1934)

Within the ahupua’a of Hanamalu’ula was a large walled heiau called Kalaau-o-kamanu of the pono-kamana type, or one in which human sacrifices were offered, but in the almost unconscious days of transition, when popular interest in such things was still asleep, most of the stones from this enclosure were taken to make firm the foundation of the Hanamalu’ula sugar mill. (Damon 1931:397)

There were also two stones associated with this temple, which guarded the pathway to the heiau. Mary Rice, in her “History of Lihue” asserted that there were “two large rocks formerly in the field opposite Mr. Wolter’s residence, of which it is said they were chiefs on their way to this heiau but stricken dead by the stone from the human sacrifices” (Rice 1914:48). Carl Wolter was the manager of Lihue’s Plantation from 1893 to 1900. Kalaauokamanu Heiau was said to have been located “above the mill” at the base of Kalepa Ridge (Richtman 1999:61). The heiau, therefore, may once have been located in the area now occupied by Kalepa Village and Hanamalu’ula Plaza (Lo 2005).

5.2 More Recent Archaeological Projects

The following archaeological projects studied lands located within the general footprint area of the proposed project. Most of these investigations yielded no significant historic or cultural sites, or relatively minimal finds:

1. McDonough (1990) conducted a brief walk-through field check of three parcels of land immediately west of the airport, and east of Lihue’s town center. Three previously identified historic residences (SHIP Nos. 50-30-9390, -9401 and -9402) were documented, no archaeological resources were identified.

2. Hammatt and Creed (1993) conducted an archaeological survey of 61 acres of land in Na‘iwiwīhi. Historical evidence suggested this land was intensively used for agriculture in both pre- and post-Contact times. They documented three ‘amau (traditional irrigation ditches) (SHIP Nos. 50-30-1-491, -492 & -493), and a single rock (SHIP 50-30-1-494) interpreted as a burial marker.

3. Franklin and Walker’s (1994) archaeological inventory survey of 552.3 acres including portions of the airport showed that nearly the entire area was previously disturbed and most sites obliterated. Two sites were documented: a stone wall (SHIP No. 1842) interpreted as a historic boundary marker (possibly marking off an old irrigation ditch), and a historic structure (SHIP No. 9402) associated with Radio Station KIVM located near the temple at the airport.

4. Hammatt and Folk (1995) conducted an archaeological and osteological study of Na‘iwiwīhi Cemetery (SHIP No. 50-30-1-6025), located between Kauai High School and Kalapaki Bay. A total of 68 burials of historic age were documented, disinterred, and reburied nearby; the burials represent a wide variety of ethnicities and ages. Walker and

Rosendahl (1991) surveyed this same general area and discovered 34 intact, historic burials with several associated headstones.

5. Creed et al.’s (1999) archaeological inventory survey of several discontinuous parcels within the airport area documented no evidence of prehistoric or early historic sites. However, extensive remains of Ahukai Camp (part of Ahukai Landing, SHIP 50-30-08-9000) were documented at Hanamalu’ula Bay. The remains consisted of 15 concrete slabs believed to have been associated with residential structures, concrete drainage systems, pāis of historic trash, railroad tracks, loading dock and camp-related infrastructure. Additionally, a large wooden house (the Bertrand House) with attached garage/leasing area and an associated rock wall lies within the project area, adjacent to and south of Ahukai Landing.

6. Bell et al.’s (2006) archaeological inventory survey of approximately 175 acres of discontinuous lands in Hanamalu’ula and Kalapaki Apaupa’a associated with proposed improvements to Lihue Airport identified one historic property (SHIP 50-30-08-3558), a piggery dating from the plantation era.

Just north of the subject project area, Walker and Rosendahl (1990) excavated nine backhoe trenches in association with the Hanamalu’ula Affordable Housing Project from which only “several small isolated coral fragments” were found. No further archaeological work was recommended at this location (TMK. 4) 3-7-003: portion 020, which was determined to have been entirely disturbed to a significant depth below surface by historic sugar cane operations. Walker et al.’s (1991) archaeological inventory survey near the mouth of the Hanamalu’ula Stream identified 10 sites; three of these from pre-Contact times: a subsurface cultural deposit associated with a traditional living site area (SHIP No. 1838 A & B), an agricultural wall and terrace of unknown function (SHIP No. 1839 A & B), and a terraced river valley of some 50 acres (SHIP No. 1847). SHIP No. 1839 provided a radiocarbon date of 1170±140 A.D. Other sites documented by Walker et al. (1991) north of the subject project area include plantation-era structures, and a historic cemetery (SHIP No. 1844 Japanese-Buddhist and Filipino-Catholic cemetery).

Just south of the subject project area, in Ni‘ihau, Folk and Hammatt’s (1991) archaeological inventory survey at the Kanoe Estate lands documented two fishponds originally recorded by Ching et al. (1973). In addition, a previously unrecorded ‘amau was found connected to one of these fishponds, known as Kanoe’s fishpond, to Ha‘ioli Stream.

Kiiuchi and Remoaldo’s Cemeteries of Kauai (1992) notes eight cemeteries in Hanamalu’ula and Kalapaki. Descriptions do not exist for two of them (BO19, BO04). A Pre-Contact burial platform on Kalepa Ridge was found by Kaipo Akana in 1992 in an inspection of areas damaged by hurricane Iniki. These burial sites are not located within the subject project area.

5.3 Coastal Portions of Hanamalu’ula and Kalapaki Apuupa’a

Three previous studies have focused on the seascapes at Kalapaki Apuupa’a and Hanamalu’ula Apuupa’a (south of the Hanamalu’ula Stream), which constitute the most sensitive archaeological portions of the general footprint area of the proposed project (Figure 18).
Section 6 Community Consultations

Throughout the course of this evaluation, an effort was made to contact and consult with Hawaiian cultural organizations, government agencies, and individuals who might have knowledge of and/or concerns about cultural resources and practices specifically related to the project area. This Cultural Impact Evaluation (CIE) includes some consultation but no formal interviews, which would be recommended if it were determined that a full-blown Cultural Impact Assessment (CIA) is warranted.

A number of attempts (1-7) were made to contact individuals, organizations, and agencies apposite to the Cultural Impact Evaluation for Hanamā‘ulu, Kalapaki and Nāwiliwili Ahupua‘a. Table 1 summarizes the community consultation process. All letters and emails were sent along with a map and aerial photograph of the project area with the following text:

> At the request of R.M. Towill Corp., Cultural Surveys Hawai‘i Inc. (CSH) is conducting a Cultural Impact Evaluation (CIE) for the County of Kaua‘i’s proposed Nāwiliwili – Lihu‘e Civic Center – Ahukai Bike/Pedestrian Path Project. The proposed project is located in Nāwiliwili, Kalapaki and Hanamā‘ulu Ahupua‘a, Lihu‘e District, Kaua‘i Island. Multiple TMHE’s A Cultural Impact Evaluation (CIE) is not a full-blown, in-depth study. A CIE is a small-scale study conducted to help the landowner/developer to determine if there is a need for a more comprehensive cultural impact assessment (CIA). For this CIE, CSH will be contacting a few key agencies and organizations for commentary (e.g., SHPO, OHA, Island Burial Council), as well as a few community cultural consultants for brief phone interviews regarding the proposed project. The project is the sixth and final segment of the 16-mile Nāwiliwili to Anahola Bike and Pedestrian Path Project, which was proposed in the 1994 State of Hawai‘i, Master Plan – Bike Plan Hawai‘i. The Nāwiliwili – Civic Center – Ahukai segment will connect four key destination points with a network of on- and off-street path improvements. Connections between these points are identified within four primary corridors:

I  Alukai Landing to Nāwiliwili Beach Park (approximately 5 miles)

II Alukai Landing to Lihu‘e Civic Center (approximately 2.5 miles)

III Nāwiliwili Beach Park to Lihu‘e Civic Center (approximately 2.5 miles)

IV Nāwiliwili Beach Park to Ni‘ihau Beach Park (approximately 1 mile)

The proposed improvements include:

10’-wide shared-use coastal path between Alukai and Ninini Point;

10’-wide shared-use path connection into Lihu‘e Civic Center.

Bike lane and sidewalk improvements to existing and planned street corridors.
End-of-the-facilities at Nāwiliwili Beach Park, Ni‘ihau Beach Park, and Līhau’e Airport.

The purpose of this cultural study is to assess potential impacts to cultural practices as a result of proposed development in the Nāwiliwili, Kalapaki and Hanama‘ulu Ahupua‘a. We are seeking your kōkua and guidance regarding the following aspects of our study:

- General history and present and past land use of the project area.
- Knowledge of cultural sites which may be impacted by future development of the project area - for example, historic sites, archaeological sites, and burials.
- Knowledge of traditional gathering practices in the project area, both past and ongoing.
- Cultural associations of the project area, such as legends and traditional uses.
- Referrals of kūpuna or elders and kama‘aina who might be willing to share their cultural knowledge of the project area and the surrounding ahupua‘a’s lands.
- Any other cultural concerns the community might have related to Hawaiian cultural practices within or in the vicinity of the project area.

Table 1. Community Consultation

<table>
<thead>
<tr>
<th>Name</th>
<th>Background, Affiliation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achi, June and Karen</td>
<td>Nāwiliwili residents</td>
<td>CSH called on April 29 and June 5, 2008. Karen Achi said she was not familiar with the project and has no comment.</td>
</tr>
<tr>
<td>Aipoalani, C. Kunane</td>
<td>Kaua‘i Island Burial Council Member</td>
<td>CSH emailed him on April 29, 2008. Mr. Aipoalani referred CSH to Cheryl Lovell-Obsatke.</td>
</tr>
<tr>
<td>Asing, Kaipo</td>
<td>Kaua‘i County Council member and Ni‘ihau resident</td>
<td>CSH emailed and sent letter on April 29, 2008.</td>
</tr>
<tr>
<td>Ayau, Hainaloha</td>
<td>Hui Mālama O Nā Kūpuna O Hawai‘i Nei</td>
<td>CSH sent email: March 31, 2008 and a follow-up email: April 22, 2008.</td>
</tr>
<tr>
<td>Carvalho, Aaron</td>
<td>Kaua‘i Resident</td>
<td>CSH called on June 5, 2008. Rember has been disconnected.</td>
</tr>
<tr>
<td>Chua, Dennis</td>
<td>Kaua‘i Community College Professor</td>
<td>CSH called and sent email with letter on June 5, 2008.</td>
</tr>
<tr>
<td>Cockett, Pat</td>
<td>Nāwiliwili resident</td>
<td>CSH called on April 29, 2008 and on June 3, 2008. No answer.</td>
</tr>
<tr>
<td>Name</td>
<td>Background, Affiliation</td>
<td>Comments</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Manoa, Jo</td>
<td>Nāwiliwili Resident, Kaipu Asing, Niumalu resident and Kauai County Council member, Bob Schleek of Grove Farm Museum, and residents Pat Cocker, June Asli and daughter Karen.</td>
<td>CSH received an email on April 12, 2008 referring CSH to Cheryl Lovell-Obstake.</td>
</tr>
<tr>
<td>Masunura, Wesley</td>
<td>Nāwiliwili fisherman and Kaipu Planning Committee Council member</td>
<td>CSH called on June 5, 2008 and left a message.</td>
</tr>
<tr>
<td>McMahan, Nancy</td>
<td>State Historic Preservation Department (SHPD)</td>
<td>CSH sent letter on March 28, 2008 and follow-up email on April 22, 2008. She forwarded the email to Mark Hubbard and referred Cheryl Lovell-Obstake.</td>
</tr>
<tr>
<td>Niuw’a, Clyde</td>
<td>Administrator, Office of Hawaiian Affairs</td>
<td>See Figure 21 below table.</td>
</tr>
<tr>
<td>Oi, Tommy</td>
<td>DLNR-L, Kauai Island Division</td>
<td>CSH sent letter on March 28, 2008 and a follow-up email April 30, 2008. Mr. Oi has no comment on the project, but referred Cheryl Lovell-Obstake.</td>
</tr>
<tr>
<td>Paik, Linda Kaleo</td>
<td>State Historic Preservation Division (Oahu Office)</td>
<td>See below table for response.</td>
</tr>
<tr>
<td>Perry, Warrens</td>
<td>Royal Order of Kamehameha, Kumu’i Chapter Number 3</td>
<td>CSH sent letter on March 28, 2008 and emailed on April 22, 2008.</td>
</tr>
<tr>
<td>Penroy, Sharon</td>
<td>Anahola Resident</td>
<td>See below table for response.</td>
</tr>
<tr>
<td>Rogers, Nani</td>
<td>He'eiapia Network member, Kapa'a Resident</td>
<td>See below table for response.</td>
</tr>
<tr>
<td>Trugillo, William</td>
<td>Kaua’i O Kaua’i</td>
<td>CSH sent an email on March 31, 2008 and a follow-up email April 22, 2008. Mr. Trugillo called CSH.</td>
</tr>
<tr>
<td>Tsuchiya, Rick</td>
<td>Kauai Historic Preservation Review Commission (KHPRC)</td>
<td>CSH sent letter March 28, 2008. Letters were dispersed amongst members at the June 5, 2008 meeting.</td>
</tr>
<tr>
<td>White, Chris</td>
<td>Kauai Resident</td>
<td>See response below table.</td>
</tr>
<tr>
<td>White, Robert</td>
<td>Niumalu Resident</td>
<td>See response below table.</td>
</tr>
</tbody>
</table>
6.1 Summaries of Community Consultations

6.1.1 State Historic Preservation Department (SHPD)

CSC contacted Linda Kaleo Paik on March 28, 2008. In an email response sent to CSC on April 16, 2008, Linda Kaleo Paik, Cultural Specialist for the History and Culture division of the State Historic Preservation Department (SHPD) provided the following:

It is a hard call as I see benefits to having this recreational land use for the community but I also see the detriment of Hawaiian traditional use for the area, such as fishing and gathering. Saying that, I can offer no added information or history at this time. Mahalo for offering me the opportunity to comment on this project.

6.1.2 Cheryl Lovell-Obatake

Ms. Cheryl Lovell-Obatake is a Hawaiian cultural specialist and community activist. She was referred to CSC by C. Kunane Apioi and John Kruse, both Kaua‘i Burial Council Members. Nancy McManus of the State Historic Preservation Department, Tommy Oi of DLNR-L Kaua‘i Land Division and resident Jo Manes. CSC has made several attempts to contact Ms. Lovell-Obatake. It is our understanding that Ms. Lovell-Obatake is interested in sharing her knowledge regarding the proposed project but has been out of town. In lieu of a formal statement for this CIE from Ms. Lovell-Obatake, a letter sent to R.M. Towill Corp (dated November 3, 2007) has been included in the report (see Appendix A). In addition to a number of other concerns (e.g., traffic, policing, beach setbacks, maintenance), Cheryl Lovell-Obatake (writing on behalf of herself and her daughter and son, Maureen and Leslie Lovell-Obatake) expressed the following key cultural concerns regarding the proposed bike/pedestrian path:

Naviliiwai Valley (Kahumoku Rd.):
- Historical properties exist in the valley: Ancient burials, auwai(s) (ditches), L.C. Awards (Kuleana ‘ōlina, ancient habitation), etc. I refer to Cultural Surveys of Hawai‘i cultural assessment in the 80’s of Naviliiwai Valley.
- Section 106 – ACHP and SHPD review, when Federal highway funds are committed to the bikeway project. A cultural impact assessment under the EIS should be conducted.
- Many historical sites that have been conserved by people of the old, specifically kanaka maoli (Native Hawaiians) are located in the proposed path areas.
- A cultural impact assessment was completed for the DOT Airport’s Division. Refer to Kehau Kekua and Pua Kanaha – cultural practitioners of Hawaii.
- Kehau Kekua – Heritage Center CJA for Kaua‘i Lagoons
Fishermen’s concerns of the bikeway and bikers impeding on existing fishing accesses. The rough dirt road have long been used by fishermen. The proposed bikeway should not interfere with fishermen’s access to the coastal shoreline. Vehicular access is preferable to reaching fishing destinations.

- Is DOCARE aware of the bikeway and their responsibilities to police and regulate fishing methods and seasonal kapu system fishing when non-residents from other islands enter these fishing grounds via Hawaii Super Ferry?

- Native Hawaiians Access Rights Project – Kauai Pilot Project

- Therefore, it is our opinion that the proposed route into Nawiliwili Valley be rejected.

6.1.3 Robert White

Mr. Robert White, a resident of Niulalu, submitted his statement to CSH in an email sent on June 4, 2008. During his childhood Mr. White would spend summers in Nawiliwili. In the 1970’s he moved to the island of Kauai and twelve years ago moved into Niulalu. Following are Mr. White’s comments about the proposed project:

I would like to say that the proposed end of the path in Niulalu would allow the Niulalu residents a great opportunity to start their bike ride in a safe manner. The road along Nawiliwili pier is well used and for an alternate route through Lihue.

The added safety of having a Bike/Pedestrian Path designation along the road to the Kauai Marriott property makes a lot of sense. After entering the Marriott property, this area is already improved with roads, so I cannot see any cultural changes except adding to the safety and enjoyment of the local community. The entire route up to where the Marriott golf course is adjacent to the airport security fences is already developed for the most part with the existing network of roads and golf cart paths. As you leave the Marriott property, there is a well-used dirt road that has been the access to Nini Point for as long I can remember. It may be a remnant road from the pineapple and sugar that was grown near the airport in the early 1960’s. As of course, it serves as a service road to the lighthouse beacon. Even though it is hard to determine from the maps provided, it appears that the section from Nini Point to Ahukini also exists roads used by local fishermen and people riding their bikes.

I believe this road is a remnant from the plantation days where their service roads often ran along the perimeters of their fields. Since the area has already undergone extensive use for the past 48 years that I know of, I believe that the road that is close or parallels the existing dirt road along the airport would be relatively non-invasive. I can speak of my experience past this point, as we never played past Ahukini.

6.1.4 Chris White

Mr. Chris White, a resident of Niulalu, and brother to Mr. Robert White, submitted his statement to CSH in an email sent on June 4, 2008. During his childhood, Mr. White would spend summers in Nawiliwili. Mr. White provided the following thoughts regarding the proposed project:

I am aware of development and use by the plantations, fishermen and beach goers but do not know any of the archaeological sites support the path is a great way of increasing community cohesiveness and health by providing a safe and beautiful path where neighbors can meet, get exercise, provide an important recreation amenity, and offer an alternate way of getting between Lihue and the beach/coast without cars.

6.1.5 Gary Craft

In a telephone interview conducted by CSH on June 4, 2008, Gary Craft shared his thoughts about the proposed project. A resident of Niulalu for eighteen years, Mr. Craft is an avid bike rider, riding his bike everyday to work and on the weekend for exercise. He has traveled extensively across the United States, Japan, New Zealand and northern Europe on bike.

He says that once the final part of the path is connected (the Anahola section), it will be a great boost for tourism. The 100-mile Bike/Pedestrian Path would be a great tourist attraction, one of the best in the world. Yearly bike riding events could take place and boost tourism. He believes that the Bike/Pedestrian Path is a great way to enhance tourism without detracting from the island.

He does object to the high cost of the bike route. He refers to other trails in the U.S. that the Nawiliwili–Ahukini Bike/Pedestrian Path could be modeled after. One is the “Rails to Trails” program in Minneapolis, which converts old railways into bike routes. He suggests instead of using concrete to pave the path, a pea gravel path should be installed, like those in Minneapolis. This would cut down on costs and inhibit bikers from speeding and hurting pedestrians.

When asked about cultural infringement, Mr. Craft says that he doesn’t see the Bike/Pedestrian Path detrimental to anyone.

When asked about fishing in the area, he reported that he occasionally sees a few fishermen along the coast and even if it's only one person, they should have access. The Bike/Pedestrian Path is not directly on the coast, so it won't affect fishermen. However, there may be some trouble with four-wheelers used for beach access that may ride over the Bike/Pedestrian Path.
Access for fishermen should be a part of the plan. He believes that the plan should be inclusive of both fishermen and bike riders. The biker's path and the cars could be parallel at times, and a policeman could monitor the cars not driving onto the Bike/Pedestrian Path.

When asked about safety, Mr. Craft suggests having proper signage with rules plainly stated. He recalls biking in Mount Tam [Mt. Tamalpais], California and seeing policemen on bicycles enforcing the rules by giving tickets to violators. He also recalls seeing "biker etiquette" such as bikers ringing their bells well in advance before driving past a pedestrian. If bikers could follow the same etiquette in the Nāwiliwili-Ahukini Bike/Pedestrian Path, it would be ideal for both pedestrians and bikers. He recalls there being some homeless people illegally squatting in the area three or four years ago, but they have since moved.

Another suggestion Mr. Craft shared was to have the trail go closer to the Nāwiliwili Lighthouse. He believes it is an important cultural place that should be highlighted to tourists.

He believes that the Bike/Pedestrian Path will pay off in the long run. He uses his car on average of 1,000 miles/year as he rides his bike to work and also rides for fun on the weekends.

6.1.6 Sharon Pomroy

Ms. Pomroy has been a resident of Anahola for thirty years and is a recipient of a Hawaiian Homelands agricultural/residential parcel. CSH interviewed her at her home on June 6, 2008.

Ms. Pomroy is concerned about the upkeep and care of the Bike/Pedestrian Path. She also expressed concern about a part of the Bike/Pedestrian Path that will have to cross with a street. The area is one-lane traffic only and may attract drivers. Although part of the current Nāwiliwili-Ahukini Bike/Pedestrian Path project, Ms. Pomroy shared that she is concerned with the Bike/Pedestrian Path's connection in Anahola. There is Hawaiian Homelands in the area and she does not want Hawaiians to be displaced from their homes because of the Bike/Pedestrian Path.

6.1.7 Mike and Sondra Grace

Mike and Sondra Grace, kama'aina of Anahola, were interviewed via telephone by CSH on June 6, 2008. They have been the owners of the Anahola Beachfront Bed and Breakfast for thirty years. Mr. and Mrs. Grace support the Bike/Pedestrian Path, saying that it is very popular for the public. Everyday they drive near the path and always see people on it. They, like Ms. Pomroy, express concern over the connection in Anahola and do not want to see Native Hawaiians displaced from Hawaiian Homelands.

6.1.8 Aunt Nani Rogers

Aunt Nani Rogers was interviewed by CSH via telephone on June 9, 2008. She is a Native Hawaiian, born and raised in Kapa'a. She is a member of the Ho'okipa Network, which strives to preserve Kaua'i.

When asked if there were any culturally significant sites in the project area, Aunt Nani states that there is the possibility of burials in the Wailua Golf Course. She also mentioned the very real possibility that kīpō (bones) may be discovered, and if so, they should be treated respectfully and appropriately.
Section 7 Cultural Landscape of the Project Area

Discussions of specific aspects of traditional Hawaiian culture as they may relate to the project area in the broader context of the encompassing Hanamä‘ulu, Kalapaki and Nāwiliwili ohana’s landscapes are presented below. Excerpts from the aforementioned Community Consultations (Section 6) and past CSH interviews (Section 4) are incorporated throughout this section where applicable.

7.1.1 Agriculture and Gathering of Plant Resources

The project area is located between the two main bays and streams of Nāwiliwili (to the south) and Hanamä‘ulu (to the north). These two meandering streams were once home to thousands of Native Hawaiians living a traditional subsistence lifestyle. As noted by Handy (1940), these two valleys were primary kalo (taro) growing locations in Puna Makia. The dryland areas (kalo) of these ohana’s contained native forests and were cultivated with crops of wafe or wawa (paper mulberry, Broussonetia papyrifera), tala (sweet potatoes, Ipomoea batatas), and sug (bottle gourd). Legends and historic documentation (especially Land Commission records) elaborate on many of these important natural resources. Land Commission documents indicate that the land use pattern may be unique to this part of the island, or to Kau‘i, in general, in which kalo (irrigated terraced gardens) and lu‘u lands in same lipua (portion of land), with households in a separate portion. In most places, lu‘u lands are defined as drier landscapes and they do not typically occur next to, and among, wetter kalo lands. Upland forest regions once provided various woods needed for canoes, tools and more, as well as cordage, food and herbs (Abbott 1992).

The area is associated with mokihana (Metrosideros ovata), an endemic tree, found only on Kaua‘i. The lei made of mokihana is a traditional symbol of the island of Kaua‘i and the mokihana were used to make the most treasured and rare seed lei in the Hawaiian Islands (Abbott 1992). In Hawaiian song, Nāwiliwili and the nearby ridge, Hi‘lima, are associated with the mokihana flower.

As mentioned in Section 1.4.1, given the relatively large area covered by the proposed bike and pedestrian path alignments, and given the presence of developed areas, road ways, resorts and other facilities, vegetation in and near the project area is quite variable. A number of the plants in and near the project area have past and present ethno botanical uses as medicinal, building, weaving and hula plants.

None of the study participants for this current CIE mentioned past or ongoing plant gathering activities. In a 2005 email to CSH from Sabra Kauka for the Kaua‘i Lagoons Resort Property, located immediately south of the Lihu‘e airport (and within the general, footprint area of the proposed project), Ms. Kauka describes going to Ninini Point to pick ‘ilima papa (also known as ‘ilima ki‘i kula, a wild form of ‘ilima) and kanamu, a native dodder (Cuscuta sandwichiana) the stems of which are used for orange lei for Hula. Linda Kaleo Park also indicated that there could be gathering activities in the project area.

7.1.2 Aquaculture, Marine and Freshwater Resources

A fishing village called Kalapaki was located between these two major stream valleys, near the seashore, before the historic period. This general area between the streams and mokai of the present town of Lihu‘e, moku‘a of the village house sites, had several fishponds and small drainages. The village was located east and north (around and up the coast) from Kalapaki Beach.

Fishing is still a significant activity in the project area. Past CSH interviews with Cheryl Lovell-Obatake, James Burgess, Robert Crowell and Dr. William Kikuchi for a 2004 CSH study on Nāwiliwili Harbor improvements, include several stories about fishing in the Nāwiliwili Harbor. Cheryl Lovell-Obatake recalled fishing with her uncle at the pōhaku site which Papalimanu Stream discharges under at Pier 2 at the harbor. Moku, aholehole, palani, pāpio, wewe, menepachi, ‘awo wo, akuli, halali were caught by pole fishing under and off the pier. She also stated that, “Fishing still exists in Nāwili. Shoreline fishing (on the pier) by the jety, across the breakwater, Niulau (small boat harbor). James Burgess recalls fishing, crabbing for Samoan crabs, white kihoua (Poroma angustifrons) crab, doing halali (to fish with the seine) for crab and harpooning fur seals in 1930’s through the 1960’s in the Nāwiliwili Harbor. Robert Crowell speaks about fishermen in the Nāwiliwili Harbor that were fishing for halali and menepachi pre-September 11, 2001. He also mentions canoe racing occurring within the harbor. The late Dr. William Kikuchi also remembers seeing fishing and canoe landing in the Nāwiliwili Harbor area. In reference to the Ninini area, Sabra Kauka in her 2009 email, reports there are many fishermen and surfers who also use this area. Worth noting in the experiences provided by the above cultural consultants, particularly the testimony of James Burgess, is their discussion of subsistence fishing as opposed to sport fishing. Subsistence fishing was ongoing practice in Nāwiliwili Harbor.

Five of the participants/respondents in the current CIE study (Cheryl Lovell-Obatake, SHPD Administrator Linda Kaleo Palk, Gary Craft, Robert and Chris White) also state in their testimony that the Bike/Pedestrian Path from Ninini Point to Ahukini is frequented by local fishermen.

7.1.3 Cultural and Historic Properties

As described in Section 3, there are several historic site sources showing multiple heiau along the seashore and stream mouths in and around the general footprint area of the proposed project (Figures 3 and 4). For the most part, all physical evidence of these heiau has been obliterated by historic activities and more recent development. Despite this, many people still appreciate the sacred nature of the landscape areas in and around these heiau (e.g., the rocky points at Ninini, Ahukini, and Kūkī‘i). In a 2005 email, Sabra Kauka states that she goes to Ninini Point to practice oli and hula.

The coastal areas were the locus of permanent house sites and temporary shelters, heiau, including kū‘u‘i and kū‘ō‘u‘ā (both types of relatively small shrines dedicated to fishing gods), and numerous trails. The area is also the site of several fishponds. Niulau Loko is located along the Hā‘ena Stream near its mouth to Nāwiliwili Bay, just outside the project area to the west-southwest (Figure 5). Kikuchi (1972, 1987) considered it a Loko Wai class fishpond because of its inland location along a meander of the Hā‘ena Stream; other sources (inaccurate) consider it...
a Loko Kuaalii (a seawall pond, fronting the ocean). The site (designated State Inventory of Historic Properties No. 50-30-11-501) was placed on the National Register of Historic Places in 1973.

Hammatt and Creed (1993) found historical evidence that Māniniwili was intensively used for agriculture in both pre- and post-Contact times. They documented three ae'o'o (traditional irrigation ditches) (SHIH No. 50-30-11-491; 492 & 493); and a single rock (SHIH 50-30-11-494) interpreted as a burial marker.

Participants in this CIE, for the most part, did not mention specific Hawaiian cultural and/or historic properties. However, a few contributors to this study stressed that, generally, there are cultural and historic sites in and near the project area. Ms. Lovell-Obatake mentioned the presence of ʻauwai (irrigation ditches), habitation and historic sites on or near the proposed pathway. Robert White commented that he believes that an existing dirt road between Nini Point and Ahukini is a remnant from the plantation days. Chris White wrote he is aware of development and use by the plantations, but does not know of any archaeological sites. Gary Craft spoke of the historic significance of the Nāwiliwili Lighthouse located on Nini Point.

7.1.4 Burials

As mentioned in Section 5, the first comprehensive archaeological survey of Kauli was undertaken by Wendell Bennett in the late 1920s and published by the Bishop Museum in 1931 in which he also noted sand-dune burials (SHIH No. 103) towards the Waialua River (Figure 17). He also refers to Site 103, Dune burials. In the sand dunes that run along the shore halfway between Hanamako and Waialua River are many burials (Bennett 1931:125).

Nani Rogers states that there is a real possibility that rei (bones) may be discovered, particularly in the Waialua Golf Course. Cheryl Lovell-Obatake states in her letter that ancient burials exist in the Nāwiliwili Valley (Kahumolu Road) (Appendix A).

7.1.5 Trails

As the coastal portion of the project area was once the site of dense habitation, it is to be expected that the area had numerous foot trails. In Damon's account of Hiram Bingham's 1824 observations from his memoir, *A Residence of Twenty-One Years in the Sandwich Islands*, published in 1847, he wrote of "Hiram Bingham crossing from Hanapēpē...over the old upland trail back of Kīhīlōana" (1931:401).

In a 2005 email sent to CSH, Cheryl Lovell-Obatake refers to sacred trails that run from Nāwiliwili side coming from Kalapaki Point along the coast. No other mention was made of trails in prior, or the current, cultural impact studies.

7.1.6 Wahi Pana (Storied Places)

As detailed in Section 3, there are many moʻolelo associated with the project area environs. One of the oldest and most famous legendary accounts in Hawaiian oral tradition describes the travels and exploits of Pele, the Hawaiian volcano goddess, and one of her sisters, Hī'iaka. The story of "The Goddess Pele. Nāwiliwili is known for a moʻolelo involving mele hula (mythical race of little people famous for building great structures of old). Several historic documents talk about the close connection between Kūhūu Hula and the pōhaku known as Paukini. Many references to Hanamako are made in the "Legend of Kawelo". Damon (1931) described Kīhīlōana as a famous nesting place of 'auwai (Porzana porzana), the dark-rumped petrel, a chiefly delicacy. The tip of Mauna Kahili, the peak to the west of Kīhīlōana, was a sacred burial place of Hawaiian chiefs. Kīhīlōana is also associated with the mele hula.

For the most part, participants in the current CIE study did not mention legends or stories about places and/or features of the landscape associated with the project area and environs. However, Ms. Lovell-Obatake spoke to the cultural significance of many of the sites in the project area and surrounding ahupua'a.
Section 8  Summary and Recommendations

At the request of R.M. Towill Corp., Cultural Surveys Hawai‘i Inc. (CSH) conducted a Cultural Impact Evaluation (CIE) for the County of Kaua‘i’s proposed Nāwiliwili—Libue Civic Center—Ahukini Bike/Pedestrian Path Project. The proposed project is located in Nāwiliwili, Kalapaki and Hanama‘ulu Ahupu‘a, Libue District, Kaua‘i Island, Multiple TMK’s. This Cultural Impact Evaluation (CIE) was conducted in order to assist the planner and developer in determining if there is a need for a more comprehensive Cultural Impact Assessment (CIA) satisfying Hawaii‘i Revised Statutes (HRS) Chapter 343, Act 50, which mandates assessment of potential impacts to cultural practices and resources by proposed projects undergoing an environmental review. The subject CIE provides preliminary information pertinent to the assessment of the proposed project’s impacts to cultural practices (per the OEQC’s Guidelines for Assessing Cultural Impacts), but does not fully meet the guidelines provided by the OEQC.

Thirty-two agencies/organizations or individuals were contacted for this CIE. Seventeen community agencies/organizations or individuals participated in brief informal interviews or provided referrals. Notably, response is still pending from a key cultural consultant, Cheryl Lovell-Otabake. In lieu of Ms. Lovell-Otabake’s participation in this CIE, a letter regarding the project sent to R.M. Towill has been included for reference in Appendix A. It is worth noting that Ms. Lovell-Otabake indicated in her letter to R.M. Towill that a Cultural Impact Assessment is needed. Ms. Lovell-Otabake states, “Section 106- ACHP and SHPO review, when Federal Highway Funds are contributed to the bikeway project. A cultural impact assessment under the EIS should be conducted.”

Generally, participants in this CIE (an abbreviated CIA) support the proposed Ahukini Bike/Pedestrian Path Project with a few caveats pertaining to cultural resources and properties as well as associated community concerns. The findings suggest that there are four major areas of cultural interest and concern regarding the proposed Nāwiliwili-Ahukini Bike/Pedestrian Path Project:

1. The Nāwiliwili-Ahukini Bike/Pedestrian Path may impede access to fishing grounds, in particular, vehicular access for residential fishermen, especially along the shoreline. Additionally, the Bike/Pedestrian Path could cause more non-residents to the area who engage in fishing, there is concern that there will be increased fishing by non-residents which may lead to overfishing.
2. There may be Native Hawaiian burials (‘īwi kāpuna) in the Nāwiliwili Valley (Kahumoku Road) and other areas outside of the project area, and generally, a likelihood that ‘īwi may be discovered in the project area.
3. Many historic and cultural properties and places exist along the pathway, especially in Nāwiliwili Valley. The Office of Hawaiian Affairs wrote, “OHA seeks assurances that should cultural sites be identified within the project area, every effort should be made to route the final path alignment away from these locations to avoid adverse impacts to the sites”.
4. This project is only a segment in a larger project. Although not a part of the current segment, the future Anahola section of the Bike/Pedestrian Path could infringe on Hawaiian Homelands. In particular, there is concern that Native Hawaiians may be displaced from Hawaiian Homelands as result of the expanded Bike/Pedestrian Path.

The results of this initial study present a few possible mitigation measures for the planner/developer’s consideration. The following recommendations are offered as a way to address some of the concerns expressed by study participants in the statements presented in Sections 6 and 7:

1. Should this study be expanded into a CIA, it is recommended that referred sites be included in the current CIE study participants be contacted for further comment or possibly more in-depth interviews, in particular, Cheryl Lovell-Otabake.
2. In light of statements made by a few of the participants in this study that there may be burial sites (‘īwi kāpuna, ancestral remains) in the project area, it is recommended that:
   a. Cultural monitoring be conducted in the immediate vicinity of previously identified archaeological sites and along the coast. Personnel involved in development activities in the project area be informed of the possibility of inadvertent cultural finds, including human remains in culturally sensitive areas. Should cultural or burial sites be identified during ground disturbance, all work should immediately cease, and the appropriate agencies notified pursuant to applicable law.
3. As there are Kāna‘i Maui (Native born, Native Hawaiians), as well as other kama‘aina groups who are culturally active in the area, it is recommended that ongoing cultural practices of (possible) plant gathering, fishing, surfing and other reasons (e.g., ceremonial) for visits to the project area and vicinity be recognized, protected and accommodated. In particular, it is recommended that fishers concerns regarding access to fishing sites be recognized and accommodated.
4. Generally, it is recommended that community members be consulted regarding the preservation, restoration, and interpretation of cultural resources and/or properties — including archaeological sites, possible burials and other features, that proactively includes the community and descendents of those with connections to the subject parcel (e.g., past residency) throughout the development of the Ahukini Bike/Pedestrian Path Project.
5. It is hoped that seasonal fishing restrictions will be monitored and enforced due to the potential for increased fishing activity along the shoreline.
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Appendix A  Cheryl Lovell-Obatake Letter

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Cheryl Loeill-Ohsaka
P.O. Box 366
Libuse, Hawaii 96766
Phone: 346-1544
November 3, 2007

R.M. Tawil Corporation
420 Waiakamilo Rd. Suite 201
Honolulu, Hawaii 96817-4952
Phone: (808) 842-1133
FAX: (808) 842-1937
Attention: Jim Niemann - R.M. Tawil Lead Consultant

Subject: Akahai phase of Nawiliwili to Anahola Bike & Pedestrian Path project.

Aloha a Mr. Niemann,

As you may recall we spoke over the phone in the beginning of the year 2007 regarding the above subject matter. There were some concerns that I mentioned in a letter dated October 23, 2007 meeting at the War Memorial Convention Hall, and at the Kauai County Council meeting. The following are my comments and I represent my daughter Maureen Loeill-Ohsaka and my son Leslie Loeill-Ohsaka, owners of TMH 3-2-56-10, who received your meeting notice. I also received meeting notice for the Loeill-Ohsaka site at Kukuihei and for Nawiliwili valley.

Nawiliwili Valley (Kahama Rd.)

1. It is obvious that the county do not own properties in the valley. Land acquisition will be costly. Slopes and floodways can be challenging to maintain the path.
2. The bike path will impede private landowners' privacy and possible off the path incursions trespassing and for then.
3. Emergency access for fire, police and ambulance.
4. ADA compliance etc.
5. Historical properties exist in the valley. Ancient burials, awa (alohi), i.h. (waiwhana sites), ancient canals etc. I refer to Cultural Surveys of Hawaii cultural assessment in the Mo of Nawiliwili Valley.

Therefore, it is our opinion that the proposed route into Nawiliwili Valley be rejected.

Real property taxes -

1. Will this project increase or decrease property value and taxes?
   - DOT traffic etc. - I am confused with DOT Highways and the Federal Highways criterion and financial grant qualifications.
2. Is this a recreational path?
3. Is this a transportation path?
4. What is the purpose of the path?
   - DOT/airport Division -
5. What are their comments?
6. Security concerns?
   - Kauai Police Department - enforcement to serve and protect.
7. Comments from the Kauai Police Commission and the Kauai Police Department should be seriously considered.
8. Commercial operations on the bike path -
   - Already advertisements for commercial bike tours or bike rentals have been sought by some individuals already. Administrative rules are not in place and there has been no public hearings regarding commercial operations. This should stop immediately and a resolution with the County Council should be seriously considered. "After the fact" permits can be conflicting laws.
9. Commercial bike and houback operations should not be allowed.
10. Section 106 - ACHT and SHP budget, when Federal highway funds are contributed to the bike path project. A cultural impact assessment under the EIR should be conducted.
   - Many historical sites that have been concerned by people of the old specifically kupuna mauii (Native Hawaiians) are located in the proposed path area.
11. A cultural impact assessment was completed by the DOT Airport's Division. Refer to Kekaha Kukui and Pua Kamehame - cultural practitioners of Hawaii.
   - Fishermen's concerns of the bike ways and bikes impeding on existing fishing access. The rough dirt roads are long being bordered by fishermen. The proposed bike path should not interfere with fishermen's access to the coastal shoreline. Vehicular access is preferable to reach fishing destinations.
   - DLNR - DOCARE: State responsibilities = Fisheries.
1. Is DOA/HSR aware of the bikeway and their responsibility to police and regulate fishing methods and seasonal (kane o'a) fishing when non-residents from other islands enter those fishing grounds, via Hawaii Super Ferry?

2. Comments from DOA/HSR and B&L/Lei & Tennis should be considered.

* Native Hawaiian Access Rights Project - Kauai Pilot Project

- "The Office of Planning, Department of Business, Economic Development and Tourism received a three-year grant from the National Oceanic and Atmospheric Administration (NOAA) Award No. C07020048 and Award No. NA06OAR213 to develop a process for the Hawaii Coastal Management Program to comply with the Supreme Court ruling in the P划/Plage decision."

- Maintenance, trash, and restroom facilities -

1. The proposed bikeway will increase human traffic traversing in and out, and more to come when the Hawaii Super Ferry begins its operations.

2. Is the County going to maintain the area?

- The Rite-Carlos Residence/Kauai Lagoon -

1. What are their comments? Liabilities?

2. Cured community concerns?

- Marriott Hotel/Time Share -

1. What are their comments? Liabilities?

- County of Kauai - Liabilities

1. Does the County have a cost estimate regarding liabilities?

2. How can the County avoid ruin on the bike/pedestrian path?

- Certified shoreline setbacks -

1. What areas have been certified recently?

This concludes my comments for now.

Sincerely,

Cheryl Lewai-Ohashi
Nawiliwili, Koloa, Kauai

CC: County of Kauai - Kauai Planning Department/Planning Commission