



# SOUTH KAUAI COMMUNITY PLAN

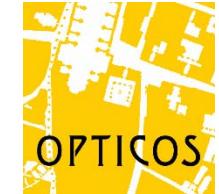
KŌLOA • PO'IPŪ • KALĀHEO • 'ŌMA'Ο • LĀWA'I

## HŌ'ULU'ULU PŌKOLE HO'OKŌ

Prepared by:



With:



July 2015

### KA MAHALO'ANA AKU

Mahalo nui loa mākou i ka po'e hana nui loa o ke Ke'ena Ho'olālā o ke Kalana o Kaua'i me ko lākou mau lālā no ke komo 'ana i ka hana o ka ho'omōhala me ka hana 'ana a kikīko'ele kēia palapala. Mahalo pū i ke Kōmike Kauleo Kama'āina me nā maka'āinana i kāko'o i ka holomua 'ana o kēia hihi'o, nā mana'o ho'okō, a me ke ala e holomua ai ko Kaua'i Hema po'e. E 'ole nō 'oukou, 'āole e holomua.

#### Kōmike Kauleo Kama'āina

- Louis Abrams, 'Ahahui Kaiāulu o Kōloa
- Chip Bahouth, Starwood Resorts

- Peter Baldwin/John Horwitz/Rick Robinson, EA Knudsen Trust
- Ted Blake, 'elele kaiāulu o Kōloa
- Maxine Correa, 'elele kaiāulu o Kalāheo

**Ka Ho'olauna 'Ana:** Ka Wahi e Ho'olālā 'ia nei | i

## KAUAI HEMA PAPAHANA KAIĀULU

- Russ Hasegawa, Kula Ha'aha'a o Kōloa
- Arryl Kaneshiro, 'elele kaiāulu o 'Ōma'o
- Lila Metzger, 'Ahahui Kaiāulu o Kalāheo
- Jody Kjeldsen, 'Ahahui Kaiāulu o Po'ipū
- Marty Kuala, Mālama Māhā'ulepū
- Sam Lee, 'elele kaiāulu o Po'ipū
- Rupert Rowe, Kāneiolouma Heiau
- Tom Shigemoto, A&B Properties
- Scott Sloan, National Tropical Botanical Garden
- David Hinazumi, Grove Farm Properties

### Ke'ena Ho'olālā o ke Kalana o Kaua'i

- Michael A. Dahilig, Luna Ho'olālā
- Marie Williams, Luna Ho'okele Papahana

- Peter Nakamura (ma ka ho'omana'o 'ana iā ia)
- Ashlee Jimenez (former project assistant)
- Marisa Valenciano
- Lee Steinmetz, Luna Ho'olālā Ne'ene 'Ōhua
- Ian Jung, Loio Hope Kalana
- Ruby Pap, UH Sea Grant Land Use Agent

### Me nā 'Aha Kūkākūkā me:

- Opticos Design, Inc., Form-Based Code
- Cultural Surveys Hawai'i, 'Ike Hana Lima o ke Au i Hala
- Fehr & Peers, Ne'ena i ke Alahele & Ne'ene'e 'Ōhua
- The Limtiaco Consulting Group, Wiliki Kīwila
- Ron Ho & Associates, Inc., Wiliki Uila

## UA HO'OLA'A'IA IĀ

### Peter Nakamura (Iulai 17, 1953–Nowemapa 25, 2013)

Ho'ola'a 'ia me ka ho'omana'o 'ana iā Peter Nakamura, Luna no ka Long Range Division o ke Ke'ena Ho'olālā o ke Kalana o Kaua'i, he keu ia a ka hana lokomaika'i, 'onipa'a, a waipahē i pōmaika'i ai ka po'e i hana pū aku nei me ia.

### Stella Burgess (Ianuali 11, 1953–Pepeluali 18, 2014)

No Stella Burgess, no kona aloha pau 'ole e ho'omana'o mau 'ia ana e ka po'e āna i mālama ai ma nā wahi āna i hana ai. He kumu, he pouhana, he kama'āina i nā loinā Hawai'i no ka hulina Hema me ka mokupuni 'o Kaua'i.

## KA 'OLELO HO'OPAKELE

Ua unuhi 'ia ka Papahana Kaiāulu o Kaua'i Hema lāua pū me ke Kānāwai o ka Papahana Kaiāulu o Kaua'i Hema i ka 'ōlelo Hawai'i no ke kuhikuhi 'ike a me ka ho'olaha 'ike wale nō. 'Aole hōoia iki 'ia ka pololei me ka 'ole o ka unuhi 'ana e ke Kalana o Kaua'i. 'O ka po'e nāna e kauka'i ana i ka unuhi 'ana o ka 'ōlelo, aia nō kēlā iā ia. Inā he hewa a pohō paha ka hopena o ka heluhelu hemahema 'ana i kēia palapala unuhi 'ia, 'aole ia na ke Kalana o Kaua'i. 'Aole ka palapala unuhi 'ia he pani no ka Papahana Kaiāulu o Kaua'i Hema me ke Kānāwai o ka Papahana Kaiāulu o Kaua'i Hema. Inā loa'a ka hemahema e kō 'ole ai ka mana'o o ka 'ōlelo Pelekāne ma ka 'ōlelo Hawai'i, no ka 'ōlelo Pelekāne ka mana nāna e ho'okō i ka mana'o e like me ke kānāwai me ke kulekele.

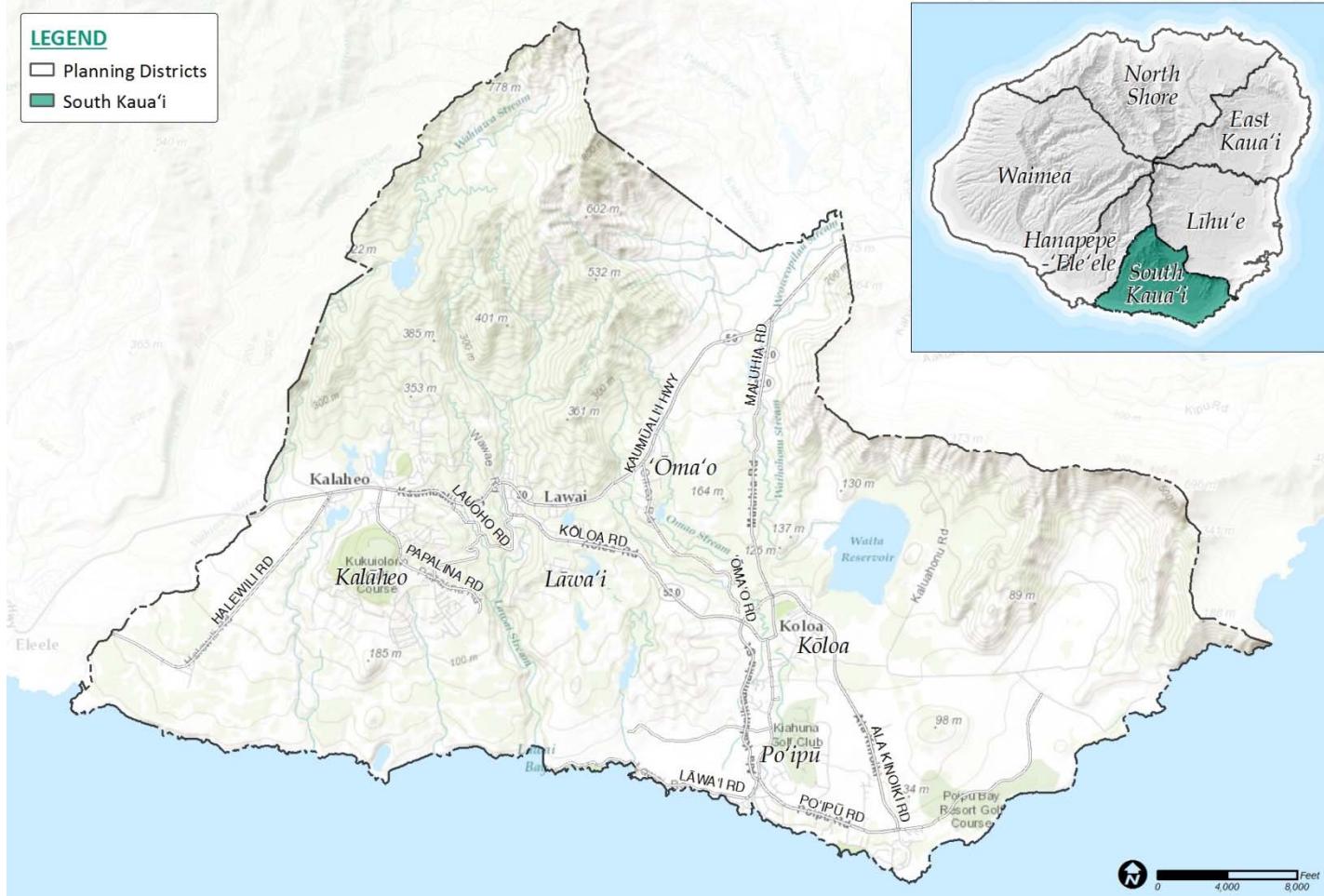
## 1 KA HO'OLAUNA 'ANA

Ua ho'ohou 'ia mai ka Papahana Kaiāulu o Kaua'i Hema (SKCP) mai ka Papahana Kūkulu Kaiahale ma Kōloa-Po'ipū-Kalāheo i 1978. He lō'ihi kona wā e ho'okō 'ia ai, he 20 paha makahiki. Mai 2015 a 2035, ho'okahi nō ia o nā papahana kūloko he 'eono no ka mokupuni e kapa 'ia nei he Papahana Kūkulu Kaiahale ma ke Kalana o Kaua'i Ho'okumu in the County of Kaua'i Charter, Pauku XIV (Ki'i 1-1). Ho'oholo 'ia ka papahana e ke kaiāulu e makemake ana i ke 'ano pono kaulike a akamai ho'i o ke kūkulu kaiāhale 'ana, nāna e ho'oholomua nā kaiāulu e kū nei, a mālama ho'i i ka noho kua'aina 'ana. Nāna ho'i e alaka'i i ke 'ano o ka māhuahua me ke kūkulu kaiahale 'ana o ka wā e hiki mai ana ma Kaua'i Hema. Na ka papahana e ho'okele ke kulekele kū i ka lehulehu ākea me ka ho'oholo mana'o 'ana no ka ho'ohana 'āina i mea e hana pono 'ia ai ka māhuahua kaiahale me ka mālama 'ana i nā mana'o e pili ana i ka mālama 'āina me ka mālama kumuawaiwai.

### 1.1 KA WAHI E HO'OLĀLĀ 'IA NEI

'O ka palena o ka Āpana ho'olālā ('Āpana Ho'olālā) o ka Papahana Kaiāulu o Kaua'i Hema, ua like nō ia me ka palena o ka Āpana Ho'okolokolo o Kōloa, koe na'e ma ka palena komohana, 'o ia ho'i ke awāwa 'o Wahiawa. Hoomeheu ka palena hikina i nā kualapa o Hā'upu mā, me Knudsen Gap, me Mauna Kahili (Ki'i 1-1). Ua lawa ka Āpana Ho'olālā iā Po'ipū, Kukui'ilā, Kōloa, 'Ōma'o, Lāwa'i, me Kalāheo, a he 31,300 paha 'eka kona wahi (49 mile huinahā). 'O kahi kēia nona ka heluna kānaka ma ke kūlana 'elua o ka nui 'ino loa, he 11,000 kama'āina.

Ki'i 1-1: 'Āpana Ho'olālā o Kaua'i Hema



### 1.2 NĀ MAHELE HANA O KA HO'OLĀLĀ 'ANA

He 'ehā nā mahele hana o ka hana i kēia papahana kaiāulu ('ike iā Ki'i 1-2). 'O ka mua, 'o ka noi'i me ka ho'omaopopo loa 'ana i nā mea e minamina ai ke kaiāulu, me nā kūlana e kū nei. Ua 'ohi 'ia kēia mau 'ike a loa'a mai ka ho'iike 'ana i ke 'ano o ke Kaiāulu, waiho ka'awale nō ia ma ke 'ano he palapala kū ho'okahi. 'O ka 'alua ka haku 'ana i mau 'olelo ho'okō hihi'o no pākahi o nā kaiāulu nui me ka Āpana Ho'olālā, ma ke 'ano ho'okahi mea holo 'oko'a. Ua noi'i pū 'ia nā 'ano mahele hana kā'oko'a. 'O ka 'akolu, ho'ohāiki 'ia nā mahele hana kā'oko'a a loa'a mai kekahī mahele hana makemake 'ia e loa'a pū me nā kulekele, 'olelo kuhikuhina, nā mea nui e ho'okō ai, me ka papahana e ho'okō ai, i hō'ulu'ulu pōkole 'ia mai ma ka papahana kaiāulu. 'O ka 'ahā ka mālama 'ana i ka papahana ma muli o ke Komikina Ho'olālā me ka heluhelu a 'ae 'ana paha o ka 'Aha Kūkā o ke Kalana.

Ki'i 1-2: 'Ehā nā Mahele Hana o ka Ho'olālā 'ana

**Mahele Hana 1: Aia i hea mākou i kēia manawa?**

Nā kūlana e kū nei/kūikawā  
Nā mana'o minamina  
Ho'iike i ke 'ano kaiāulu

**Mahele 2: Makemake mākou e holomua a i hea?**

Nā 'olelo ho'okō hihi'o  
Nā mahele hana kā'oko'a

**Mahele 3: He aha kā mākou e hiki ai i laila?**

Ka mahele hana makemake 'ia  
Nā pahuhopu, 'ano o ka hana  
'ana, kulekele, hana  
ho'oholomua, mea nui e  
ho'okō au  
Haku i ka Papahana Kaiāulu

**Mahele 4: Nānā iā hope  
me ka hānai 'ana**

Komikina Ho'olālā  
'Aha Kūkā o ke Kalana  
Papahana Kaiāulu Hope Loa

KA HO'OKINO'ANA

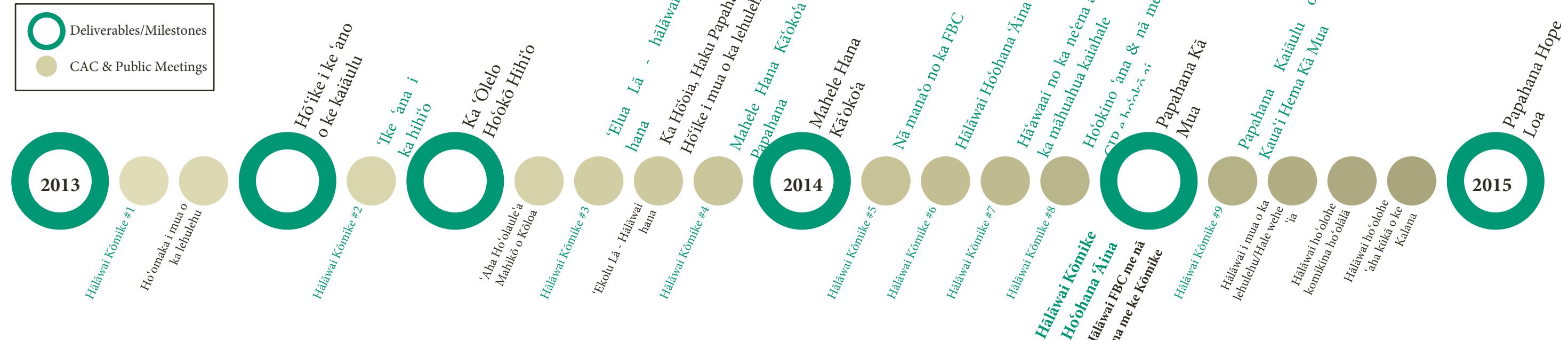
### 1.3 KA HO'OMALIMALI 'ANA I KE KAIĀULU

'O ke komo pū 'ana mai o ke kaiāulu ka mea ko'iko'i e lawa pono ai ka 'ike e loa'a ai kekahī hihi'o 'ike no ka holomua 'ana o Kaua'i Hema. Ua ho'omaka 'ia i 'Apelila 2013, he hopena ka papahana o ka hele hālāwai a wala'au nui 'ana me ka po'e lehulehu e hiki ai ke loa'a nā mana'o like 'ole o ke kaiāulu ma nā mahele hana a pau o ka hana 'ana i ka papahana. Na Appendix A o ka Papahana Kaiāulu o ke Kalana o Kaua'i e hō'ulu'ulu pōkole mai kēia mau hālāwai wala'au.

#### 1.3.1 Kōmike Kauleo Kama'āina

'O kekahī mahele o ka ho'olālā 'ana, ua ho'okumu 'ia he Kōmike Kauleo Kama'āina i lawa pono ai ka lohe 'ia 'ana o nā mana'o a kuleana paha o nā kaiāulu me nā pā'oihana, me nā mana'o o ko nā taona like 'ole ma loko o ka wahi nona ka papahana. Ua koho 'ia ke Kōmike, he 15 kānaka, e ka Meia, na ke Kōmike i alaka'i ka po'e ho'okō papahana ma ka hana 'ana i ka papahana kaiāulu. Ko'iko'i kā lākou hana ma ka lawe 'ana mai i mau palapala 'āina no ka ho'ohana 'āina a me ka ne'e 'ana i ke alahele ma nā 'ano like 'ole, me kekahī mau mana'o 'ē a'e e ho'iike 'ia nei ma kēia palapala. Ua mālama 'ia he 11 hālāwai Kōmike ma loko o ka wā ho'olālā, ua heluhelu ho'i ke Kōmike i kēia palapala, a waiho pū mai nei i ko lākou mana'o i pili mai iā ia. Ho'iike kēia palapala i ko lākou hihi'o no ka mea, he mau 'elele lākou no ko lākou kaiāulu aloha nui 'ia ma Kaua'i Hema, a ho'okaika nō ho'i lākou i ka holomua me ke kau mana'o 'ana i nā hanaua keiki o hiki mai ana.

Ki'i 1-3: Ka Wā o ka Ho'omalimali Kaiāulu



### 1.3.2 Hālāwai i mua o ka Lehulehu

Ua 'imi 'ia nā mana'o o ka lehulehu ma nā wā a wahi like 'ole mai ko Kaua'i Hema mau kama'aina me nā mea nona he kuleana. Ma kinohi, ua mālama 'ia he mau hālāwai ho'omaka i mua o ka lehulehu. He 6,326 nā leka kono i ho'ouna 'ia aku nei no ia mau hanana ma Kōloa, Kalāheo, me Po'ipū.

A laila, ua mālama 'ia he mau hālāwai hui 'u'uku me nā nīnāuele. Ma ka "Lā Mahi Kō o Kōloa" i loa'a hou ai kekahi mau mana'o hou aku. A pau kēlā, ua komo nā lālā o ke kaiāulu i kekahi hālāwai ho'oholomua hana, he 'ekolu lā ka lō'ihi, no ka no'ono'o 'ana no kekahi mau papahana kā'oko'a. Ma ka hopena, ua pau nā mahele hana ho'olālā ma ka hālāwai ākea i mua i ka lehulehu i hō'ike ai ka papahana kā mua ma mua o nā hālāwai Komikona Ho'olālā a 'Aha Kūkā o ke Kalana e pono ai ka holomua 'ana. Ki'i 1-3 e hō'ike ka papa manawa o nā hanana i mua o ka lehulehu i mālama 'ia ma waena o nā Hālāwai Kōmike me nā Hopena Hō'ike.



Ma nā palapala 'āina i hō'ike a kuhikuhi ai ka po'e lehulehu i nā pilikia me nā mea kūpono o kēlā wahi. (Ki'i na: Dennis Fujimoto/The Garden Island)

### 1.3.3 Ka Ho'omalimali 'ana ma ka Pūnaeweple me ka Pa'i Palapala

**Paena Pūnaeweple** – Ua hana 'ia he paena pūnaeweple no ka ho'olaha 'ana i nā 'ike me ka mā'alahi i waena o ke kaiāulu. Na ia paena e hō'ike nā mana'o nui o ka papahana, me nā paena ē a'e e pili mai ana i nā kumuawai, ka ho'ouka palapala 'ana, ke kau inoa 'ana no ka leka uila, papa manawa o nā hanana, me ka waihona ki'i. Kele 'ia ma: [www.southkauaicp.com](http://www.southkauaicp.com).

**Palapala Ana Mana'o** – Ha'awi 'ia kēia 'ano palapala ana mana'o o ka lehulehu i mea e maopopo ai nā mahele ko'iko'i loa o ka papahana, e like me ka mea i hō'ike 'ia e ke kaiāulu. Ua like loa nā palapala i kau 'ia ma ka pūnaeweple me nā mea i pa'i 'ia ma ka pepa a hā'awi 'ia aku ma nā hālāwai a hanana paha, a helu pū 'ia nā pane ma nā 'ano palapala 'elua. Ua hā'awi 'ia 'elua palapala ana mana'o ma ka paena pūnaeweple o ka Papahana Kaiāulu o Kaua'i Hema, a mālama 'ia ho'i ma SurveyMonkey.com.

**Photo Campaign** – Ua kūkala 'ia ma ka 'Aha Ho'olaule'a Mahikō o Kōloa ka makemake o ka papahana i nā ki'i i mea e ho'olalelale aku ai i ka po'e 'ōpio e komo i ka hana ho'olālā. Ua hana 'ia kēia no ka ho'onui 'ana i ke anaina nāna e 'ike papahana i nui pū ai ho'i ke kaiāulu. Ua noi 'ia ka po'e e ho'ouna i mau ki'i ma o ka Instagram e hō'ike ana i ko lākou mau wahi aloha nui 'ia ma Kaua'i Hema, a i 'ole kekahi wahi hou aku i kuhikuhi 'ia e nā limahana o ka papahana. Ua koho 'ia nā ki'i maika'i loa, aia lākou ke hō'ike 'ia nei ma ka Papahana Kaiāulu o Kaua'i Hema.

**Wish Cards** – E like me ka mea i hō'ike 'ia, 6,326 na leka kono i ho'ouna 'ia i nā kama'aina a pau o Kaua'i Hema, no ke kono 'ana iā lakou i nā hanana 'ekolu i mālama 'ia i mua o ka lehulehu. Na ia mau pepa i nīele nā kama'aina no ko lākou mana'o e makemake nui ai no Kaua'i Hema. 'O kekahi po'e, ua kākau lākou i ko lākou mana'o, 'o kekahi po'e, ua kaha ki'i. Ua hā'awi 'ia nō ho'i nā index cards no ka hopena ho'okahi.

**Pāpaho Ho'opili Kānaka** – Ua ho'ohana 'ia ka paena Facebook o ko ke Kalana o Kaua'i Ke'ena Ho'olālā ma ke 'ano he paepae e ho'olaha aku ai i ke kaiāulu i nā 'ike, nā hana, me nā mahele o ka ho'olālā. Ua hiki i ke kaiāulu ke hō'ike pū aku i ko lākou mana'o ma luna o ia paena.

## 2 KA HIHI’O O KE KAIĀULU

## 2.1 NĀ 'OLELO HO'OKŌ HIHI'Ω

Ua haku ‘ia nā ‘olelo ho‘okō hihi‘o no ko Kaua‘i Hema Ke‘ena Ho‘olalā me nā taona kū ho‘okahi, he ‘elima, ma o ka ho‘omaopopo ‘ana i nā mana‘o, he 700, i ‘ohi ‘ia ma nā hanana a hālāwai pū me ke kaiāulu. Ma nā “Ōpua Hua ‘Ōlelo” e hō‘ike ‘ia ai nā mana‘o ko‘iko‘i ‘ino loa, na lākou ho‘i i alaka‘i i ka hana o ka haku ‘ana i nā ‘olelo. Aia ka hihi‘o o ka Papahana Kaiāulu o Kaua‘i Hema holo ‘oko‘a ke hō‘ike ‘ia nei ma lalo nei. Hō‘ike pū ‘ia nā ‘olelo ho‘okō hihi‘o no pākahi o nā taona ‘elima ma nā mahele o lalo nei **ma kēia ‘ano**, na lākou paha e hō‘ike i nā makemake like ‘ole o kēia me kēla taona no ka wā e hiki mai ana. Ma hope o nā ‘olelo ho‘okō hihi‘o e kū nei, ka‘i pū mai nā ‘olelo ho‘okō hihi‘o o ka Papahana Laulā o Kaua‘i i ka wa i ho‘ohou ‘ia ai i 2000, hō‘ike ‘ia *ma kēia ‘ano*, ma na ‘ōpua hua ‘ōlelo.

**South Kauai** is comprised of **distinct rural communities**, each embracing its own **rich cultural, natural, and historic heritage**, but **well-connected** through safe and efficient **transportation networks**. Balanced, responsible development enhances existing communities, preserving the **local rural lifestyle** that embodies South Kaua'i and is cherished by residents and visitors alike.

### 2.1.1 Kōloa

**KŌLOA** He wahi ‘oihana kālepa a noho kupa nō ho‘i kēia, e mau ana nō kona ‘ano kua‘aina a “taona kahiko” ma o ka mālama a ho‘oholomua ‘ana i kona mau waiwai kama‘aina.

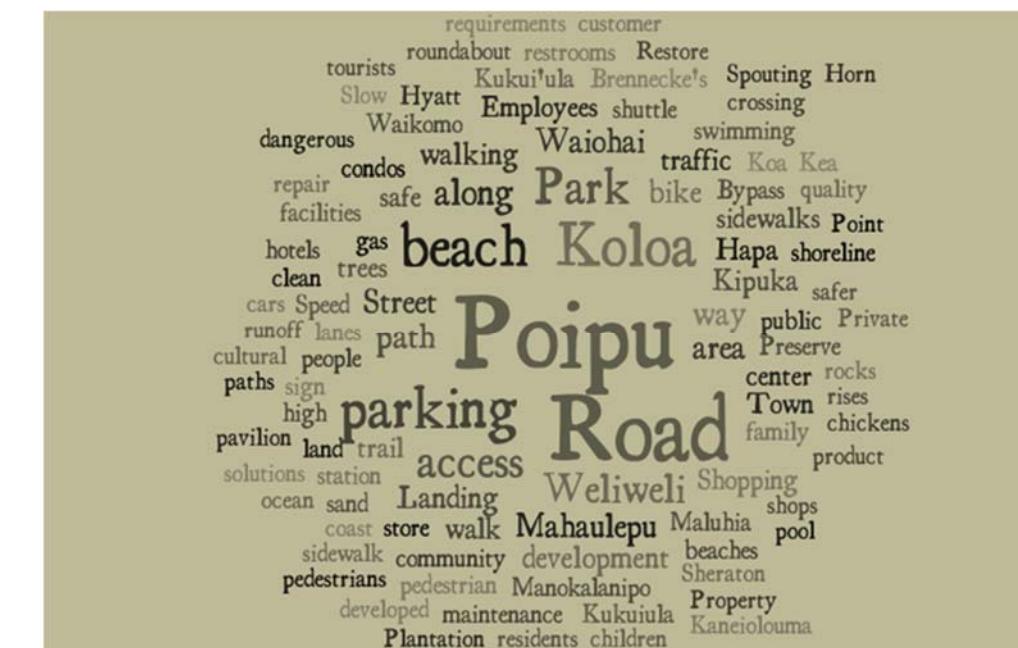
Mālama ‘ia ka mo‘olelo o Kōloa ma ke ‘ano o nā hale mahi kō/hale o nā haole ma ka taona, nā hale pule kahiko, me nā hale kahiko ē a‘e. Ma ka taona, mālama ‘ia ke ‘ano o ke kūkulu hale e like me ke ‘ano kūmau o Kōloa Taona. I ka malu o nā kaupokū hale me nā kumu lā‘au nui, pili nā wahi ho‘okū ka‘a ma nā alahele wāwae ma kēlā me kēia kapa o ka taona. Ua loa‘a nā hale kū‘ai mea ‘ai, ka Hale Leka, me ke Kikowaena Kūlanakauhale. Ho‘olale ‘ia nā kama‘āina me nā malihini i Kōloa no kona mau wahi hale kū‘ai, hale ‘aina, a hale inu ho‘i. I ‘ō aku o ka taona, aia ka Hale Wili Kō o Kōloa ke ho‘ohana ‘ia nei ma ke ‘ano he wahi hana māmā o ka hana kāpili ‘āna, me ka hana a pena mea ‘ai. Ma nā ‘āina mahi o ka wā i hala, mahi ‘ia ke kope me ka hē‘ī, me kekahī mau ‘ai ē a‘e.

character bypass--source  
businesses western accidents  
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add heiau Grove better families allowed  
shuttle along sidewalks path Quarry  
athletic Camp access Kipuka  
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beaches food parking more Skate  
lanes bike trail Beach want  
need kids Lawai  
spring farm park part  
about Make Hapa Safe  
used Weliweli Koloa take  
Restore Town needs tract alone  
basketball Mahalepu traffic Lots New biking  
congestion public Bus bleachers use extension believe  
tourists Help children Hotel spend Laundromat  
benefit trucks Knudsen walkers between  
appropriate widening available  
cleaned--watershed Allerton/McBryde

## 2.1.2 Po'iipū

**PO'IPŪ** E lilio ana ia i wahi helu 'ekahi o ka ho'okipa malihini me ka mana'o o ke aloha 'āina, no ka po'e kupa me nā malihini kekahī, hana 'ia kēia wahi me ke akamai, mālama ma'ema'e 'ia nā kapakai me nā wahi pilikai, pāka ho'okipa, me nā kumuawaiwai ho'oilina e mālama pono 'ia, me ka ho'okāpili 'ana aku i ia mau wahi a pau a hiki ke hele 'ia e kēlā me kēia kanaka.

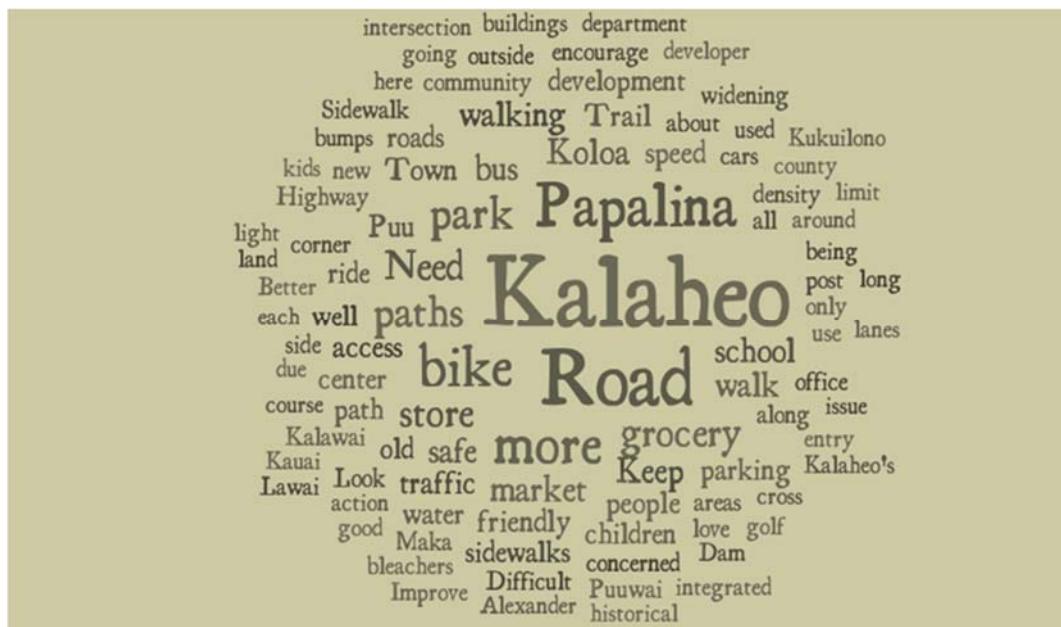
He wahi pilikai 'o Po'ipū kahi e noho ai ka po'e kama'āina a me ka nui loa o ka po'e malihini o ka mokupuni holo 'oko'a. Kāko'o 'ia e ko Kukui'ula e ulu nei ma kona komohana me Kōloa ma ka 'ākau, aia ma Po'ipū ke 40% o nā wahi ho'okipa malihini hōkele nui, a he wahi nui 'ino o ka ho'olilo 'oihana 'ana. Kaulana loa 'o Po'ipū i nā mea e hana 'ia i waho o ka hale, ma kona mau kapakai, nā kūlana nalu, nā wahi lu'ukai, kula kolepa me ka pā'ani kenika. Hele nā paikikala ma nā ala e ho'okuleana 'ia e Grove Farm me McBryde. Nanea ka po'e holoholo wāwae a paikikala ho'i ma ke alahela kū 'ole e hele ana ma ke kapakai mai ka Sprouting Horn a Māhā'ulepū.



### 2.1.3 Kalāheo

**KALĀHEO** E mau ana ia ma ke 'ano he kaiāulu noho kupa, e ho'oholomua 'ia e ke Kikowaena Hale Kū'ai Kālepa i hana 'ia no ke kūlanakauhale, kāko'o 'ia e nā pā'oihana 'u'uku kūloko.

I Kalāheo, nui nā hale noho ma ke alo o nā pu'u i uka o ka taona me nā wahi e puni ana iā Kukuiolono Pāka. Ke nui a'e nei ka heluna kānaka o Kalāheo i ke kūkulu hale 'ana ma nā 'āina ho'opulapula a mahi'ai ho'i i ho'olilo 'ia i nā 1970s a '80s. I ke kikowaena o ka taona, ke ho'oponopono mālie 'ia nei nā wahi o nā pā'oihana, me ke kau mana'o 'ana i ke kaila paniolo. Emi nā ka'a e pa'a ai nā alanui i ka loa'a 'ana o nā wahi ho'okū ka'a i wehe 'ia no ka lehulehu, a he mau alahele wāwae e ho'olale i ka hele wāwae o ka po'e kama'āina. Ua māhuahua a'ela nā pā'oihana ma uka a ma kai ho'i o ke alaloa 'o Kaumuali'i, ma kahi o nā huina alanui i 'oi aku o ka nui. Na ka 'ahahui pā'oihana e kāko'o i ke kaila paniolo e mālama 'ia ai ka noho 'ana i laila, me ka mālama pū 'ana i ka ho'olaule'a o ka taona i kēia makahiki kēlā makahiki. I ke komohana o ka taona, ua loa'a nā mea e pono ai ma ke kikowaena hale kū'ai, nona kekahi hale kū'ai mea'ai nui e lawa ai ko laila heluna kānaka e nui a'e nei.



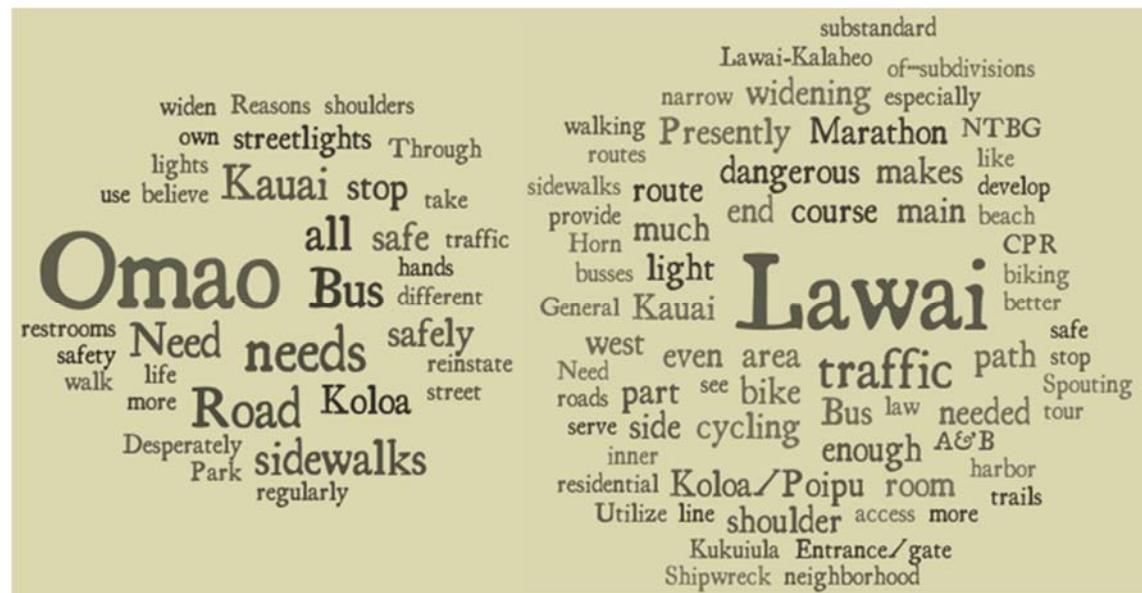
## 2.1.4 ‘Ōma’o me Lāwa’i

**‘ŌMA’O** E mālama ‘ia ana nō ma ke ‘ano he kaiāulu noho kupa kua‘aina.

**LĀWA'I** E mau ana ia ma ke 'ano he wahi e hui au ka noho kua'āina 'ana me kekahi mau pā'oihana li'iili'i pū kekahi e puni ana i ka Hale Leka me ka Hale Ho'okomo Kini.

*Minamina 'ia 'o 'Ōma'o me Lāwa'i ma ke 'ano he mau kaiāulu kuaāīna 'u'uku. Nui nā 'ano o ka 'āina ma laila, he mau pā holoholona, he mau pu'u, he mau awāwa a kahawai ho'i e ka'awale ai nā kūlanakauhale, i like 'ole ai kona nānā 'ana me ka wahi i nui loa o ke kūkulu hale 'ia. 'O ke kikowaena kālepa 'u'uku e puni ana i ka Hale Ho'okomo Kini o Lāwa'i, loa'a iā ia he mau hale kū'ai nānā e lawelawe i ka po'e o nā kūlanakauhale e pili ana, me ka po'e a hele ana ma ke alahele 'o Kaumuali'i me*

ke alanui 'o Kōloa. Mālama 'ia nā palena o nā kaiāulu e pili ana, i 'ole ho'i e nui hou aku ai ka māhuahua 'ana o kauhale. Nani ka 'ikena mai ke alanui 'o Kōloa aku e ka'awale ai 'o Kōloa me Lāwa'i.



## 2.2 NĀ 'IKE E ALAKA'I I KA HANA

ʻE hoʻokino ‘ia ana ka hihiʻo no Kauaʻi Hema me ka hoʻokō ‘ana i kēia mau ‘ike o lalo nei.

1. **Ka Mālama ‘Ana i ka Wai** - E mālama i ka wai mai uka a kai, me ka ho‘omana‘o ‘ana he ahupua‘a ia, e mālama ‘ia pēlā.
  2. **Ka Mālama ‘Ana i nā Loina me nā Wahi Pana** - E kūpale a mālama ho‘i i nā wahi pana, nā wahi kahiko, me nā loinā Hawai‘i, me he mea lā ke ola nei lākou. E ulana i kēia mau mea a pau, ma ke ‘ano he mau kumuawaiwai e loa‘a ai he mo‘olelo wehewehe i ke ‘ano o ia wahi, no ka ho‘opili ‘ana o kama‘āina i ke au i hala, i hiki ai iā lakou ke holomua i ka noho ‘ana i ke au e holo nei.
  3. **Ho‘omākaukau no nā Pō‘ino a Pōpilikia** - E liuliu i ka hiki ‘ana mai o nā pō‘ino a pōpilikia e loa‘a mai ana ma ka honua a ka moana paha, pēlā pū me ke ‘ano o ke au, ka wela ‘ana o ka lā, me ka pi‘i ‘ana o ke kai.
  4. **Kūlanakauhale Pa‘apū Hele Wāwae ‘ia** - E kau mana‘o nui aku i ka māhuahua ‘ana o kauhale ma nā wahi pa‘apū, kuhikuhi pono ‘ia, i emi mai ka māhuahua ‘ana, e kāko‘u ho‘i i ke kaiāulu, me ka mālama pū i kona ‘ano kua‘āina me nā wahi ākea kūkulu ‘ole ‘ia. E ho‘omāhuahua i nā taona ‘o Kōloa, Kalāheo, me Po‘ipū ma ke ‘ano he mau kikowaena holoholo, me ka ho‘ohana ‘ia ‘ana o lākou ma nā ‘ano like ‘ole, me ko lākou ‘ano kū i ke au i hala me ke ‘ano kū i ke kaiāulu.
  5. **Ka Ne‘e ‘Ana i ke Alahele ma nā ‘Ano Like ‘Ole** - E waele i mau alahele i hiki ke hele wāwae ‘ia me ka ma‘alahi, i emi ai ka hele ‘ana ma ke ka‘a, i ‘oi aku ai ka palekana, i ho‘olaha aku ai i ke ola ‘ana me ke ola kino maika‘i.
  6. **Nā Hokele Nui a Ho‘okipa Malihini me ke Aloha ‘Āina** - E hana i nā Hökele Nui o Po‘ipū ma ke ‘ano he wahi kipa na ka malihini i nui o ka mālama ‘āina—nona nā mea kū‘ai me nā lawelawe e kāko‘o ai ke aloha ‘āina, kōkua i nā

pā'oihana kūloko, ho'ēmi i ke kūka'i 'ana i nā ka'a holo alanui, me ka mana'o, 'o kona mau wahi pana a kapakai waiwai loa ho'i kona mau mea ko'iko'i.

- Nā 'Oihana Pili i ka Ho'omōhala Waiwai - E kau mana'o nui i ka 'oi kelakela o nā waiwai o loko o ka wahi e ho'olālā 'ia nei - he mau kahakai oneone, nā waiwai pili i ka moana, ka pā mau 'ana a ka lā, ke 'ano o ka mana photovoltaic (PV), nā wahi pana me nā loinā Hawai'i, nā 'āina kuāuna lo'i, me ka pūnana o nā alahele me nā alanui. E paipai i ka

### 3 KE'ANO O KE KAIĀULU

Na kēia wehewehena i hō'ulu'ulu pōkole nā 'ike no ka hō'ike 'ana i ke 'ano e waiho nei ka 'Āpana Ho'olālā o ka Papahana Kaiāulu o Kauā'i Hema. Ua 'ohi 'ia kēia mau 'ike i ka ho'omaka 'ana o ka papahana, a 'o ia ho'i ka paepae kumu e nānā nui ai i nā nīnau, ka 'ike 'ana i ka hihi'o, me ka nanalu 'ana i nā mahele hana kā'oko'a me nā kulekele. Na nā mahele o lalo nei e wehewehe i nā mo'olelo o ka wā kahiko, nā kumuawaiwai o ka 'āina, me nā 'ano kū e waiho nei ka 'Āpana Ho'olālā.

#### 3.1 NĀ KUMUWAIWAI HO'OILINA

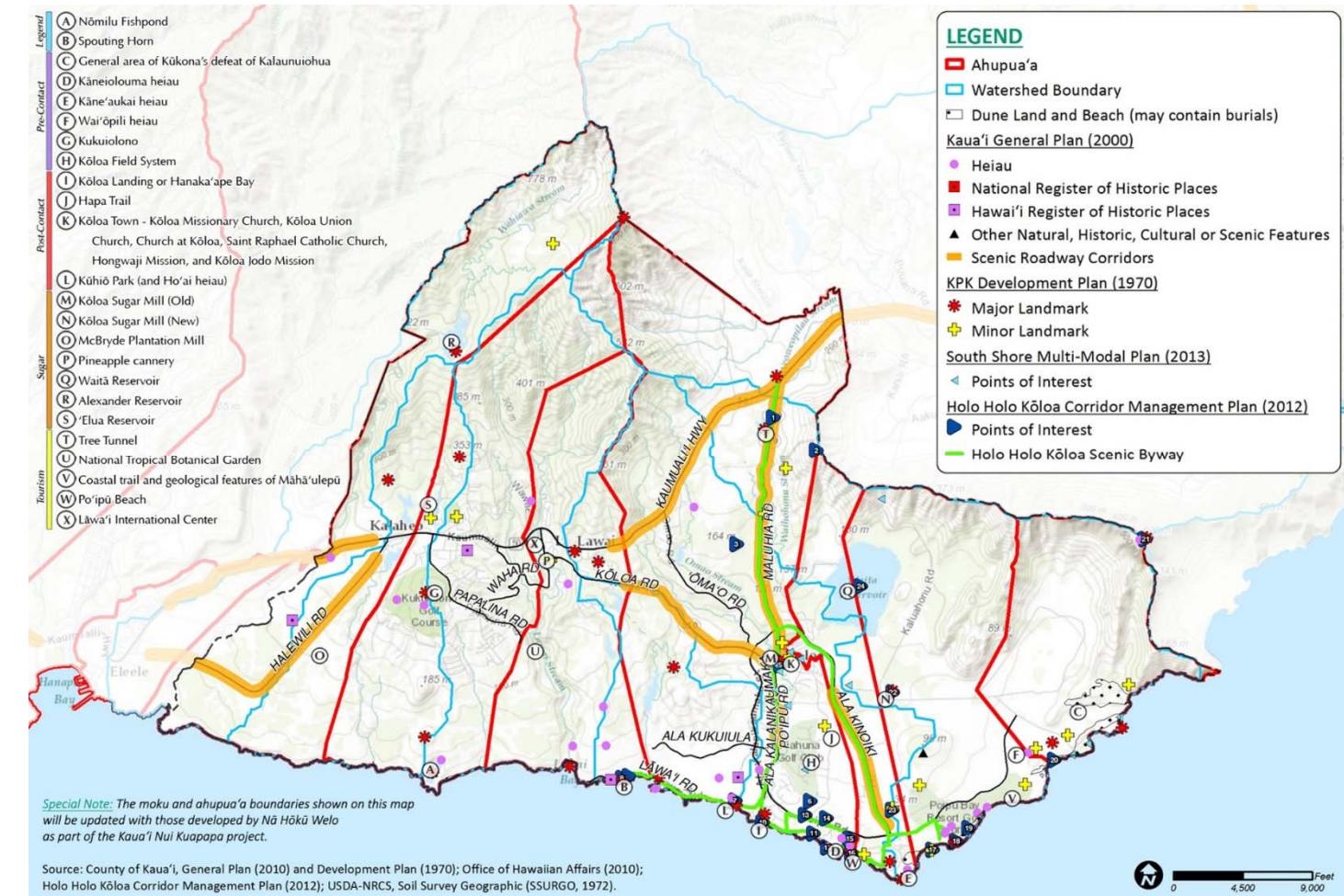
Ma kona puke, *The Kauā'i Album*, 'olelo 'o Carol Wilcox "he mo'o 'olelo ko Kauā'i nāna e hō'ike ana ka mo'o 'olelo kahiko o ka po'e o Hawai'i holo 'oko'a" (1981). 'O ka 'oia'i'o, pili ka 'olelo a Wilcox iā Kauā'i Hema, mai Kalāheo a Lāwā'i a hala loa aku i Kōloa me Po'ipū. Ma mua o ka hiki mua 'ana mai o ka po'e haole, nui ka po'e Hawai'i kama'aina ma Kauā'i Hema, ua lawa pono ko lākou noho 'ana i ke 'ano o ko lākou mahi'ai 'ana pili iā lākou wale iho nō. Ma laila ke "kahua" e loa'a ai nā mo'olelo a ka'ao he nui loa, a ua maika'i paha ke kuhi 'ana i kekahi o ia mau mo'olelo ma ke 'ano he la'ana maika'i no ka hō'ike 'ana i ka pilina me ka 'āina me kekahi mau wahi pana. Ma laila nō i hānau ai ke Ali'i Kūhiō, ma laila ho'i i noho ai nā ali'i nui ma mua o ka hiki mua mai i ka haole. Nui ka hana o kona awa kū moku no ka hana 'ō koholā me ke kālai lā'au 'ala, a ma laila i kū ai ka hale wili kō mua loa o Hawai'i. I kēia wā, ho'olale i nā kaukahī o ka po'e malihini e kipa i kona mau kapakai me nā hōkele nui helu 'ekahi. Ma Kauā'i Hema, ua hiki ke ho'olaha 'ia ka mo'o 'olelo o ka po'e Hawai'i kahiko ma o ka 'ike maka 'ana i kēia mau wahi pana ma kahi ho'okahi.

Na Ki'i 3-1 e hō'ike ka waiwai o ko Kauā'i Hema mo'olelo kahiko. Helu papa 'ia ia mau wahi ma Appendix B o ka palapala SKCP.

ho'oulu mea 'ai ma kona wahi 'āina pono'i, ka ho'oulu kāko'o 'ana i nā pā'oihana li'il'i, me ka ho'oulu 'ana i ka nui o nā 'oihana e loa'a ma laila.

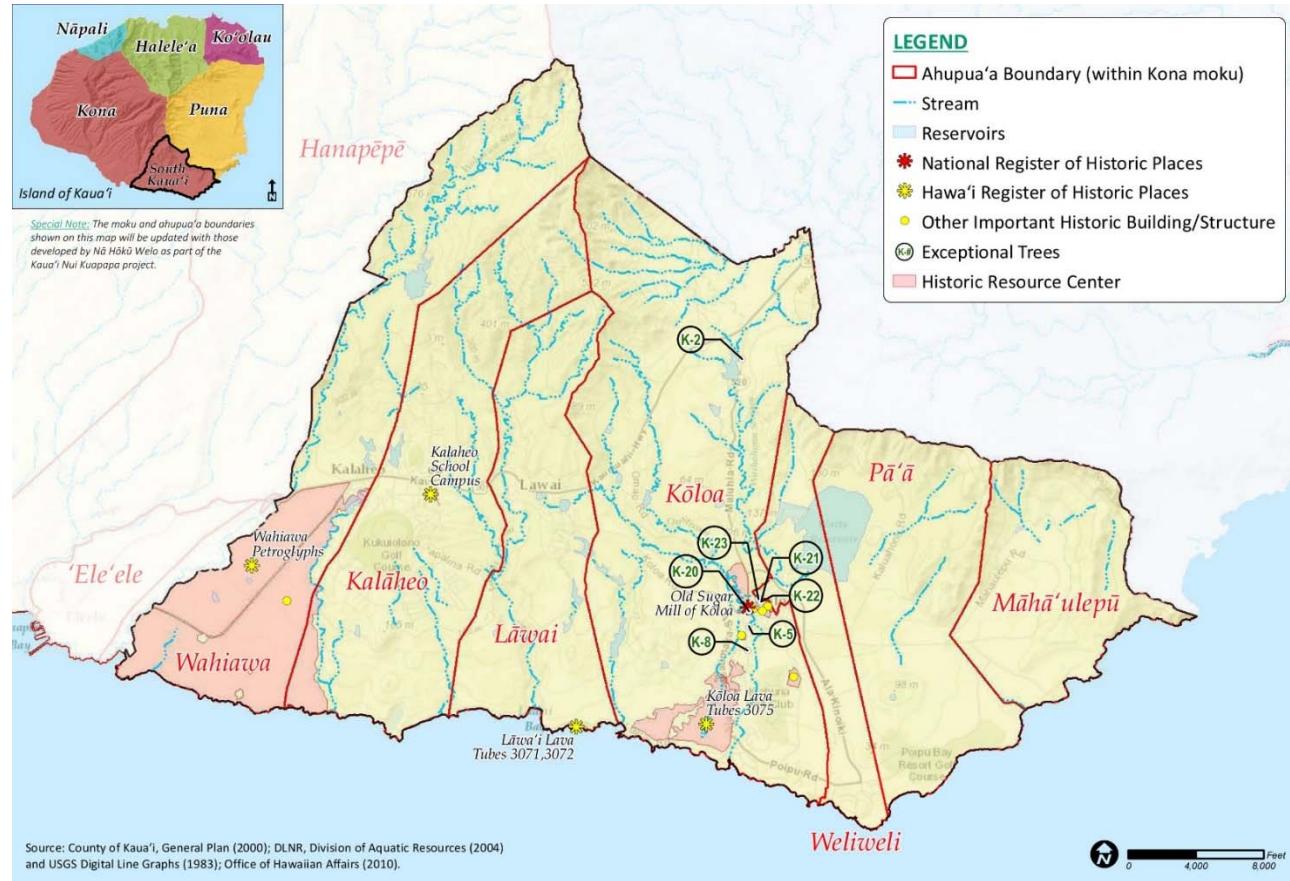
- Nā 'Ano Kauhale Like 'Ole - E kāko'o i ke kūkulu 'ia 'ana o nā 'ano kauhale no ka po'e limahana ma loko a puni ho'i nā taona.
- Nā Kūkulu Kaiāulu me nā Pono Lako - E kau nui i ka mana'o e pono ai, e kāko'o 'ia ai ho'i, ka ho'omōhala waiwai.

Ki'i 3-1: Palapala Kuhikuhi i nā Kumuawaiwai Ho'oilina



He 1,000 a 'oi nā wahi pana hō'ike i nā hanalima o ke au i hala, ua kuhikuhi pono 'ia ia mau wahi i loko o ka 'Āpana Ho'olālā. Ma kēia 'ano noi'i 'ana, ua hō'ike 'ia nā ahupua'a i loa'a ka mahi'ai, ka po'e noho kupa, ka waele 'ana i mau alahele, ke kanu iwi, me ka mālama kumuawaiwai. religious activities including burial interment, and resource gathering. Nui loa nā heiau o Kauā'i Hema, 'o Kāneiolouma ka heiau ko'ikoi loa i ke ahupua'a 'o Kōloa, 'o Kāne'aukai ma Weliweli, 'o Wai'ōpili ma Māhā'ulepū, me Kukuiolono ma Kalāheo, ua luku 'ia na'e. Ma ka mo'olelo o ka noi'i 'ana i ia ahupua'a me kona mau wahi pana, 'ike pū 'ia ke koena o nā hale wili kō me nā wahi hānai holoholona, e la'a me ka 'auwaha, hā wai, hale wili kō, paipu, pā uwea kukū, pā pōhaku, a paepae nō ho'i.

Ki'i 3-2: Nā Ahupua'a o Kauā'i Hema me nā Wahi Pana i Helu 'ia



I loko o ka 'Āpana Ho'olālā, 'elima nā wahi pana i helu 'ia ma ka Hawai'i Register of Historic Places, nāna e kuhi pono aku i nā moku, wahi, hale, a mea ho'i me ko lākou mana'o e waiwai ai i ko Hawai'i mo'olelo kahiko, nā loina, nā 'ano o ke kūkulu hale, nā hana lima o ke au i hala, me ka noho kupa 'ana ma ka 'aina (Ki'i 3-2). Penei lākou:

- Nā Ki'i Pōhaku o Wahiawa (SHPD #30-09-3169)
- Nā Ana Kahe Pele o Lāwa'i (SHPD #30-10-3071, -3072)
- Nā Ana Kahe Pele o Kōloa (SHPD #30-10-3075)
- Ka Hale Wili Kō o Kōloa (SHPD #30-10-9302)
- Ke Kula o Kalāheo (SHPD #30-10-9391).

Helu 'ia nō ho'i Ka Hale Wili Kō o Kōloa ma ka National Register of Historic Places ma ke 'ano he wahi pana kaulana loa ia a puni ka moku 'aina.

Ua komo pū ho'i ke Kalana o Kaua'i i ka papahana pili i ke au i hala i kapa 'ia o "Kaua'i Nui Kuapapa: Talking about Our Island" i kuhikuhi ai i nā palena o nā moku 'eono kumu o Kaua'i me Ni'ihau, me nā ahupua'a pū kekahī, he 54 paha. He hapa ka 'Āpana Ho'olālā o Kaua'i Hema o ka moku 'o Kona. 'Oko'a nā palena o nā moku me nā ahupua'a mai nā palena e ho'ohana 'ia nei i kēia au nei, no ka mea, ke kuhikuhi 'ia nei lākou e like me nā 'ike i kuhi 'ia ma nā palapala 'aina me ka 'ike o ka ho'omaka 'ana o nā makahiki 1800, i hō'ike pono 'ia ai ka wā iā Mō'i Kaumuali'i. Ma nā palapala 'aina, e hō'ike pū 'ia ana nā 'ike pili i ke au i hala, pili ho'i i nā loina Hawai'i, i hiki ke loa'a ma o kekahī hana e ho'okāpili ma nā hōailona ma ka palena o ka moku a ahupua'a ho'i. E ho'owili pū 'ia ana ia mau 'ike i loko o nā papa ha'awina o nā kula aupuni o Kaua'i.

### 3.2 KE'ANO E WAIHO NEI KA 'ĀINA

He 'āina ākea 'o Kaua'i Hema, me nā 'ano wao like 'ole, mai ka piko o Kapalaoa (3,267 kapua'i) a hiki i nā kula e iho mālie ana a kapakai. 'O Mauna Hā'upu ka wahi pana nui loa ma ka hikina o ka 'Āpana Ho'olālā, e pī'i ana i luna o ka 'ilikai ma nā kapua'i he 2,300 paha.

'O ke 'ano o ka 'āina ma ka 'Āpana Ho'olālā, nui kona mau pu'u 'ākeke, nā pu'u pula lānahu, me nā pōhaku pele 'ōma'o i loa'a nei ma ke kahe 'ana o nā luapele o Kōloa, he 1.5 miliona makahiki ma hope o ka hānau 'ana o ka mokupuni. 'O nā wahi pana 'ē a'e, 'o ka Lua 'o Makauwahi, ke ana pāpā'akea nui loa o ko Hawai'i pae 'āina, me Puhi, he lua puhi kai e kapa 'ia nei 'o Spouting Horn i kēia au nei, ma ka 'ao'ao hikina o ka hana 'o Kukui'ula.

He Oxisol ke 'ano o ka hapa nui o ka lepo ma ka 'Āpana Ho'olālā, he 'ula'ula kona waiho'olu'u, 'āole nō ia hehe'e wale i ka ua, a he hana nui ka ho'oulu 'ai 'ana i loko o ia 'ano lepo. 'O kekahī hapahā o nā 'eka o ka 'Āpana Ho'olālā, he mau 'āina pau wale i ka hehe'e me ka ma'alahi, pēlā nō paha ke koena o ia mau 'āina, he hehe'e wale nō paha. Ua kuhi 'ia kekahī hapa o ka 'Āpana Ho'olālā ma ke Ua kuhi 'ia kekahī hapa o ka 'Āpana Ho'olālā ma ke 'ano he ma 'āina i hiki ke ho'oulu nui 'ia ka 'ai. Ua ho'olilo 'ia ka hapa nui o ka 'Āpana ma ke 'ano he mau 'āina ko'iko'i no ka ho'oulu 'ai, ma lalo o nā HRS Mokuna 205, Paukū III.

'Elua nā 'ano 'āina ma ka 'Āpana Ho'olālā: he mau nahele ma'u i luna o 300 kapua'i i uka aku, a he mau nahele i malo'o maila, i lalo o 300 kapua'i i kai mai. Ua ho'ololi 'ia ka hapa nui o nā nahele malo'o e ka hana a kānaka, akā, 'o ka hapa nui o nā nahele ma'u me kekahī mau wahi o nā nahele malo'o, ke waiho nei nō me ka ho'opā 'ole 'ia. Ua kuhikuhi aku ka U.S. Fish and Wildlife Service identified i nā wahi ko'iko'i no ke ola loa 'ana o nā lā'au me nā holoholona kuamoo'ole ma loko o ka 'Āpana Ho'olālā. Nui 'ino nā lā'au a holoholona malihini e noho 'ē aku ana i ka 'Āpana Ho'olālā, i loko pū ho'i o nā wahi e mālama kūpale 'ia nei, a pilikia loa nā lā'au a holoholona kama'āina iā lākou. He 'ehiku nā kumu lā'au nui a ko'iko'i e mālama kūpale 'ia ma lalo o ke kānāwai, 'āole e hana 'ino a wehe 'ia paha (KCC §22-5). Kuhi 'ia lākou ma Ki'i 3-2 a helu 'ia ma Pākaukau 3-1. Hō'ike pū 'ia nō lākou ma ka palapala 'aina o ka SKCP no ke kuhikuhi 'ana.

#### Pākaukau 3-1: Nā Kumu Lā'au Ko'iko'i o Kaua'i Hema

Helu	Kumu Lā'au	Kona wahi e waiho nei
K-2	Tree Tunnel ( <i>Eucalyptus Robusta</i> )	Ma nā 'ao'ao 'elua o Maluhia Alanui (TMKs 2-7-02:01 and 2-8-01:05)
K-5	Baobab ( <i>Adansonia digitata</i> )	Ma hope o Ka Hale Pule Mikanele o Kōloa, kū'ono'ono Hema-Hikina(TMK: 2-8-10:01)
K-8	Earpod ( <i>Enterlobium cyclocarpum</i> )	Ma mua o Kaua'i Mortuary ma Po'ipū Alanui (TMK: 2-8-10:45)
K-20	'Ohai ( <i>Samanea saman</i> )	Ma hope o Yamamoto Store kokoke i ke kahawai(TMK: 2-8-07:16)
K-21	'Ohai ( <i>Samanea saman</i> )	Ma Honpa Hongwanji Mission me Kōloa Early School (TMK: 2-8-04:56)
K-22	'Ohai ( <i>Samanea saman</i> )	Ma Honpa Hongwanji Mission me Kōloa Early School (TMK: 2-8-04:56)
K-23	'Ohai ( <i>Samanea saman</i> )	Ma hope o Kōloa Early School (i waena o TMKs 2-8-04:03 and 53)

Ua ho'oholo 'ia, ua hiki nō ke mālama kūpale 'ia, ma kekahī mau 'ano like 'ole, nā kumuawai o ka 'Āpana Ho'olālā. Aia ma ka 'Āpana Ho'omaluō ka hapa nui o ke koena o nā lā'au kama'āina. Aia ma ka loko o ka 'Āpana Ho'omaluō 'o Kanaele, ka nahele o Lihu'e-Kōloa, he mau wahi ho'omaluō, a me ka 'aina e ho'okuleana 'ia e ke Kaua'i Watershed Alliance.

## KAUĀ'I HEMA PAPAHANA KAIĀLU | Hō'ulu'ulu Pōkole Ho'okō

No kona ākea a me ka nui o nā wahi like 'ole i ki'eki'e aku a ha'aha'a mai paha, 'oko'a ke 'ano o ke au ma ka 'Āpana Ho'olālā. Ma ka 'ao'ao Kona i 'oi aku o ka malo'o, he 35 a 160 paha 'īnaha ka nui o ka ua helele'i i ka makahiki. I nā malama o ke kau wela (Mei-Kepakemapa), 'oi aku ke ki'eki'e o ka lā i ka lewalani, wela mai nō, a e pā mau ana nā makani, he moa'e paha. Ma'alili a'e ka wela i nā malama o ka ho'oilo ('Okakopa-'Apelila), emi mai ka pā mai o ka makani, ākea aku nā wahi o ka ua. He mau manawa pōkole i nui 'ino o ka ua, malia paha he wai hālana a he 'ā'ai o ka 'aina ka hopena. Ma Kōloa, inā ana 'ia ka 'ino ma nā makahiki he 'umi, he 2.5 'īnaha paha ka nui o ka ua i ka hola ho'okahi.

'Eono nā 'aina wai kumu o ka 'Āpana Ho'olālā, he 'umukūmākahi ona kahawai: 'ekolu o lākou, he kahe mau ana, 'ewalu o lākou, kahe i kekahi manawa wale nō. Na ke Ke'ena Olakino o ko Hawai'i Moku'aina i kuhi aku i nā kumu e pilikia nei nā kahawai 'ekolu e kahe mau ana, no ka mea, 'aole paha maika'i ke 'ano o ka wai. He 'elua 'aina wai kumu ko ka 'Āpana Ho'olālā: Alexander Reservoir, nona ka hale hō'ikehu hydroelectric he 1,000 kilowatts, me ka Waitā Reservoir, he lepo pohō ia ma mua, hānai wai 'ia e Ku'ia Kahawai.

'O nā 'ano o ka wai kahe i lalo o ka 'aina, he basal i kekahi mau manawa, kekahi manawa he "perched" ('o ia ka wai e waiho nei i loko o ka pōhaku), me ka wai e huki wale 'ia e ka pani wai. 'O ka hapa nui o ka 'Āpana Ho'olālā, aia ia ma ka 'aina wai kumu o Kōloa, me kekahi hapa ona ma ka 'aina wai kumu o Hanamā'ulu. 'O ka nui o ka wai e loa'a mai ko Kōloa, he 30 miliona kālani o ka lā (MGD), a he 0.342 MGD wale nō ka nui ma'a mau e pauma 'ia. Eia na'e, 'olelo ke Kōmikina Moku'aina no ka Mālama Wai, ma muli o ke 'ano o ka 'aina o Kaua'i, he hana nui paha ka loa'a mau 'ana o ka wai ke pauma 'ia mai loko aku o ke kumu wai.

Ma ka 'Āpana Ho'olālā, hiki nō ke nui loa paha ka mana e loa'a ma ka ho'ohana 'ana i ka mana o ka lā a me ka makani. 'O ka pā mai a ka lā ma ka 'Āpana Ho'olālā, ma laila ka nui i 'oi aku ma mua o ko nā wahi 'ē a'e, he 300 cal/cm<sup>2</sup>/o ka lā i nā 'aina o uka, a he 450-500 cal/cm<sup>2</sup>/o ka lā ma kapakai. He 70% o ka manawa ka pinepine e pā mai ai ka makani, ma nā wēkiu o nā mauna ha'aha'a iki mai ka nui loa o pā mai a ka makani.

### 3.3 NĀ 'ĀINA KAHAKAI

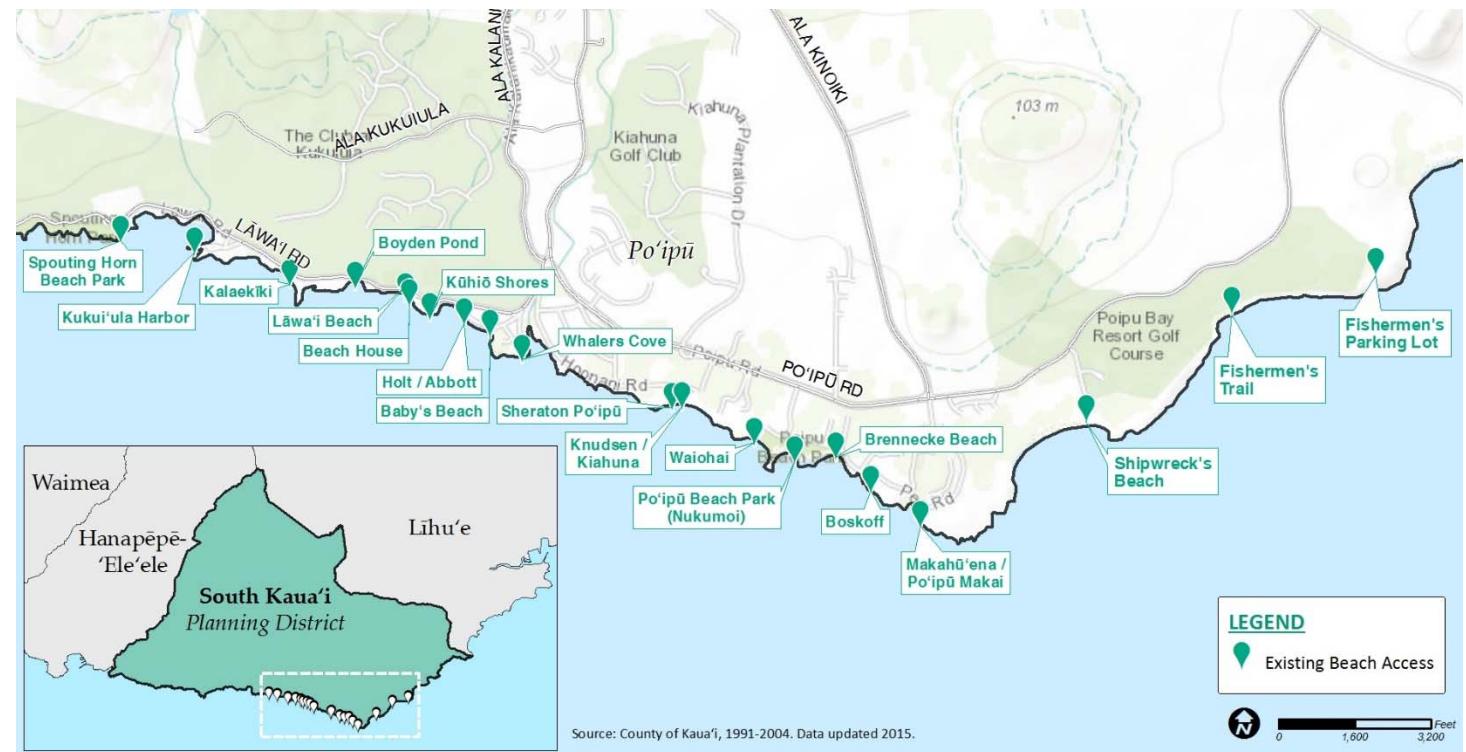
Huli ka 'Āpana Ho'olālā i ka hema, a 'o ka mea ma'a mau, pi'i mai ka nalu a ki'eki'e i nā malama o ke kau wela, ma muli o nā 'ale o ka Pākipika Hema, i kekahi manawa ho'i, i nā malama o ka ho'oilo pū kekahi, ma muli o nā 'ino o ka moku 'o Kona.

'O ka hapa nui o nā kai pili kapakai ma ka 'Āpana Ho'olālā, ua kuhi ke Ke'ena Olakino o ko Hawai'i Moku'aina (DOH) i ke 'ano o ke kai, he Class A no kona maika'i a maika'i 'ole paha. 'O waena o ka hana 'o Ho'ai me ka lae 'o Makahū'ena, ua kuhi ka DOH i ko laila kai he Class AA, 'o ia ho'i "e mau ana ka ma'ema'e loa o ia kai, me he mea lā 'a'ohē loa lepo a mea ho'ohaumia paha o loko i loa'a mai ma ka hana a kānaka." I nā kai Class A, koi 'ia ka hana ho'oma'ema'e helu 'ekahi, a 'o ka wai e ho'oku'u 'ia, pono ia e ho'okō i nā kānāwai pili i kona ho'ohana 'ia 'ana, me ke kānāwai mālama kūpale i nā 'ano i'a like 'ole o ke kai. Ma ke kuhi 'ana i ke 'ano o ke kai pili i ke one, ua like ka pahuhopu no nā kai Class I, 'o ia ka mālama 'ana i kona ma'ema'e loa.

Ma ka palapala kaulona i hana 'ia e ka Coastal Geology Group mai ka School of Ocean and Earth Sciences and Technology (SOEST) ma UH i 2009, 'o ka wikiwiki o ka loli 'ana o nā kapakai ma Kaua'i Hema, kekahi mau wahi, he loli 'u'uku, a kekahi mau wahi 'ē a'e, he 'ā'ai paha ia ma ka 1-2 kapua'i o ka makahiki. 'Aole i nānā 'ia nā kapakai nui o ka pōhaku, me nā kapakai 'ē a'e e mau aku ana me ka loli 'ole.

Hō'ike 'ia nā ala e hele 'ia a hiki 'ia ai nā kapakai ma Ki'i 3-3. He 'umikūmāhiku nā wahi e hele 'ia ai, a loa'a pū nā palapala aupuni, nona ka mana e hiki ai i ka po'e lehulehu ke hele i ia mau kapakai me nā ala e hele 'ia ai, a e palapala 'ia ana nō lākou i ka wā e hiki koke mai ana. Hō'ike pū ke ki'i i nā ala i waele 'ia, 'aole na'e i helu 'ia ma ka palapala aupuni.

Figure 3-3: Nā Ala e Hele ai ka Po'e Lehulehu i Kahakai

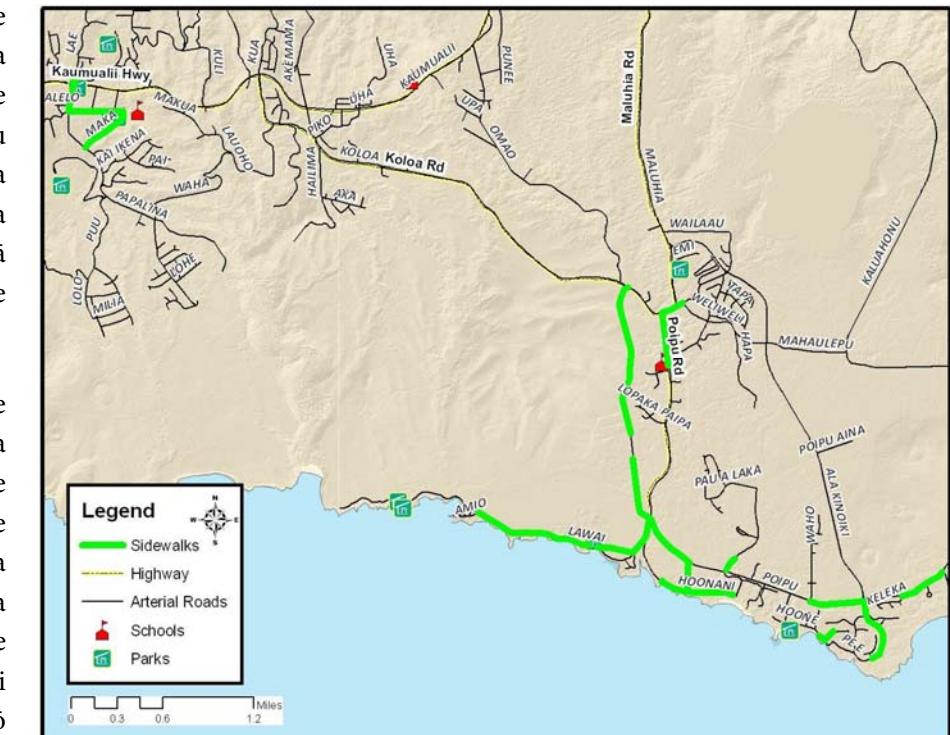


Source: County of Kaua'i, 1991-2004. Data updated 2015.

### 3.4 NĀ WAHI I KŪKULU'IA

'Elima nā taona 'oko'a o Kaua'i Hema—Kōloa, Po'ipū, Kalāheo, Lāwa'i, me 'Ōma'o. Ke kīko'o aku nei 'o Kukui'ula i ke komohana ma muli o kona māihuahua kaiahale hou.

Figure 3-4: Existing Sidewalk Inventory (Kaua'i Planning Department 2010)



na'e ia i ka lawa o ke 'ano o ke kaiahale e kū nei. 'O ka ho'omāhuahua kaiahale ma Kōloa, 'Ōma'o, me Lāwa'i, ua kaupalena 'ia, u'uku mai ka mea hiki.

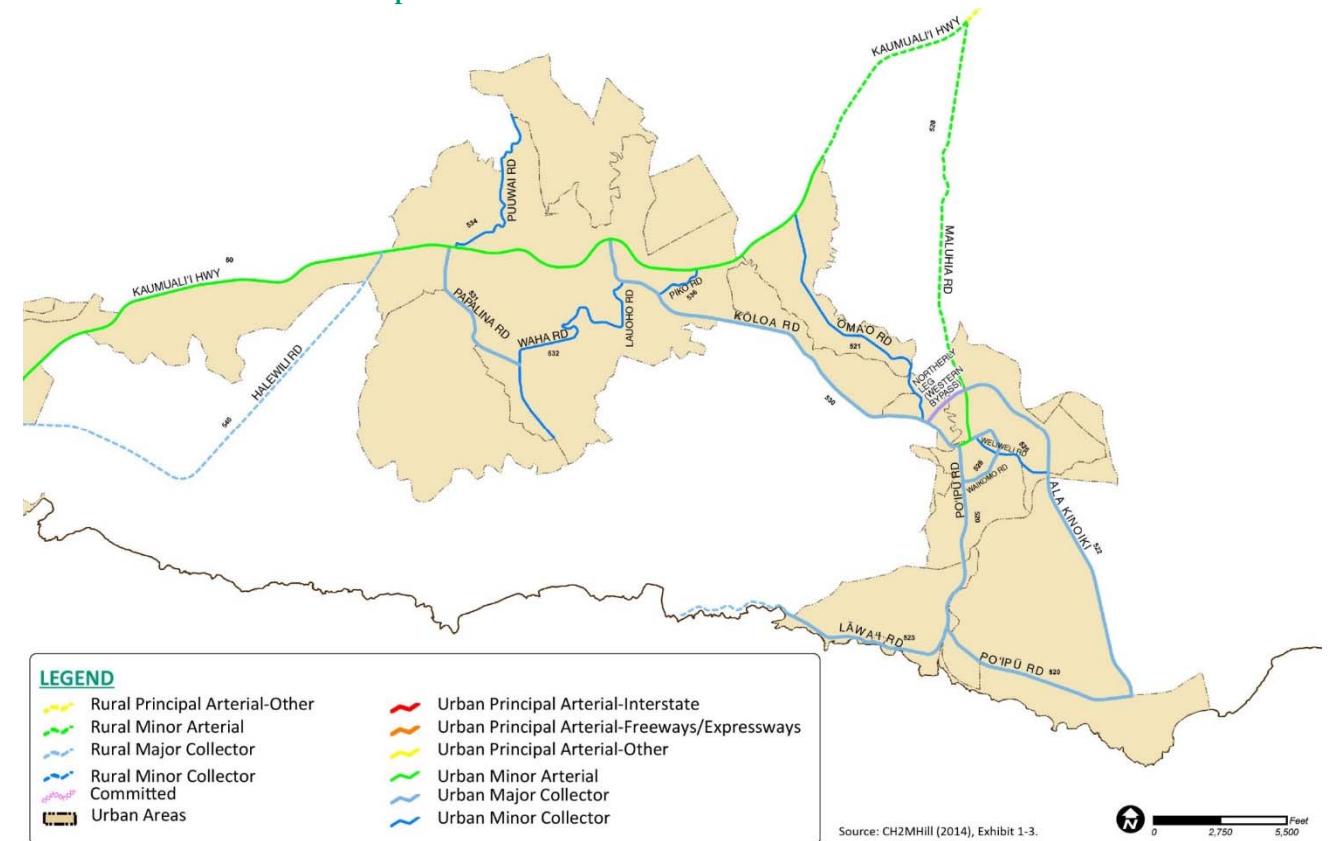
**Nā Alanui.** Ua lako ka 'Āpana Ho'olālā iā Alaloa Kaumuali'i (Route 50), ho'okahi o nā 'elua alaloa nui, he 'elua, ma Kaua'i. 'O Kaumuali'i Alaloa, 'elua ona ala no ka moku'aina, ho'omaka ia ma kona hui 'ana me Alaloa Kūhiō (Route 56) i Līhu'e, a pau ia i Mānā ma ka hulina komohana o Kaua'i. Ma waena o Puhi me Līhu'e, ua hōākea 'ia ke alaloa, 'ehā ona ala. 'O ia wale nō ke alaloa moku'aina i helu 'ia ma ka National Highway System ma loko o ka 'Āpana Ho'olālā. Eia na'e, he mau alahele 'ē a'e i wehe 'ia i ka po'e lehulehu i hiki nō paha ke hā'awi 'ia ke kālā mai ka Federal Highway Administration (FHWA), ma ke 'ano he alaloa kāko'o 'ia e ke aupuni pekelala. Helu papa 'ia lākou ma ke ka'ina pī'āpā ma lalo nei, a hō'ike pū 'ia ma Ki'i 3-5:

- Ala Kinoiki
- Ala Kōloa
- Ala Halewili
- Alaloa Kaumuali'i
- Ala Lāwa'i i ke komohana o Kukui'ula ke awa kū moku
- Ala Lauoho-ma waena o Ala Waha me Ala Kōloa
- Ala Maluhia
- Ala Māhā'ulepū-ma waena o Ala Weliweli me Ala Kinoiki
- 'Āpana 'Ākau o ka Western Bypass (ho'olilo 'ia i ke kūkulu hou 'ia)
- Ala 'Ōma'o
- Ala Papalina
- Ala Po'ipū
- Ala Piko
- Ala Pu'uawai
- Ala Waha
- Ala Waikomo
- Ala Weliweli

'Elua kukui ho'okū ma ka 'Āpana Ho'olālā: ho'okahi ma ka huina o Alaloa Kaumuali'i me Ala Papalina, a ho'okahi ho'i ma ka huina o Alaloa Kaumuali'i me Ala Kōloa.

Ua ho'olālā mua 'ia ma muli o ke kaulona 'ana i ka ne'e 'ana i ke alahele, a ua no'ono'o 'ia ka ho'oponopono 'ana i nā ala o loko o ka 'Āpana Ho'olālā. No ka hapa nui o kēia mau ala, ua kūkulu 'ia no ka ma'alahi o ka holo 'ana o nā ka'a, 'aole paha mana'o 'ia ka hele 'ia o ia mau ala e ka wāwae, a ka paikikala paha, ma ke 'ano i kaulona 'ia ai lākou. Ma ke kaulona hou 'ana a ka SKCP, nānā 'ia nā 'ano like 'ole o ka hele 'ana ma ke ala no ka hana o ke kaulona, a hō'ulu'ulu pōkole 'ia ia mau 'ike ma ka Mahele 4.3.

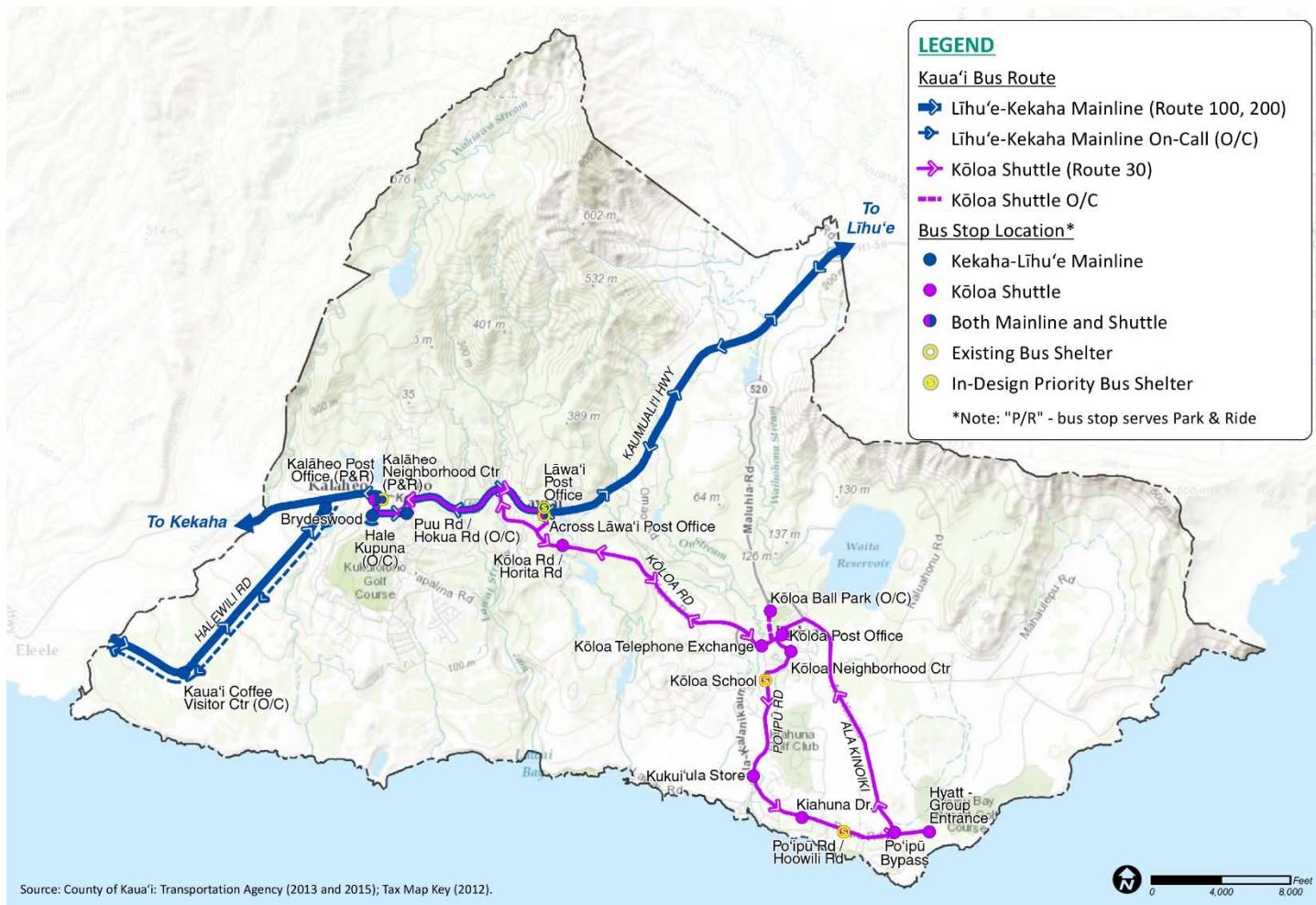
Ki'i 3-5: Nā Ala Kāko'o 'ia e ke Aupuni Pekelala



## KAUĀ'I HEMA PAPAHANA KAIĀULU | Hō'ulu'ulu Pōkole Ho'okō

**Ka Lawelawe 'Ōhua Lehulehu.** 'O ke ka'a lawelawe 'ōhua o Kaua'i wale nō ke 'ano o ka lawelawe 'ōhua no ka po'e lehulehu, ho'okuleana 'ia nō e ke Ke'ena Lawelawe 'Ōhua o ke Kalana o Kaua'i. 'Ehiku nā ala ka'a lawe 'ōhua e hele mau ai, 'elua ho'i o lākou, aia nō ma loko o ka 'Āpana Ho'olālā o Kaua'i Hema—ke ala mai Kekaha a Līhu'e laina nui, me ka'a lawe 'ōhua o Kōloa, e ka'apuni i nā kūlanakauhale ma Kalāheo, Kōloa me Po'ipū. Ma kona 'ano e kū nei, pono ka po'e kau ka'a e ho'ololi i Kalāheo ma waena o nā helena 'elua, 'a'ohē ho'i hele 'ana i 'Ōma'o ('ike iā Figure 3-6).

Figure 3-6: Nā Wahi e Hele nei nā Ka'a Lawe 'Ōhua



**Nā Ala Paikikala.** 'O nā moku wale nō e loa'a he mau ala paikikala, 'o Līhu'e me nā moku o Kaua'i Hikina, a kū ka'awale ka hapa nui. Akā, hiki i ka po'e holo paikikala ke holo ma nā alahele wehe 'ia no ka po'e lehulehu; kekahi o ia mau ala, ua palekana nō no ka holo paikikala, a 'o kekahi ho'i, he weliweli. Ma Kaua'i Hema, nui nā ka'a holo i ke alanui me ka wikiwiki, 'a'ohē paha wahi e holo paikikala ai ma ka 'ao'ao o ke ala (Charlier 2012).

**Nā Alahela Wāwae me nā Ala Palekana a Hiki i nā Kula.** I 2007, ua kaulona ka Kōloa-Po'ipū Area Circulation Plan i nā ala e kū nei i hiki ke hele wāwae 'ia, me ka ho'oholo 'ana i ka hana nui ko'iko'i loa e



ho'oponopono 'ia ai 'o Kōloa Taona, 'o ia ho'i ka loa'a 'ana o nā ala e palekana ai ka hele 'ana o ka po'e haumāna o ke kula o Kōloa. Ua koi maila lākou i ka waela 'ana i mau alahele wāwae ma Ala Waikomo me Ala Po'ipū no nā haumāna o ke Kula o Kōloa me ka ho'oponopono 'ana i nā alahele wāwae ma ke kikowaena o ka taona. Ua koi pū 'ia ka waele 'ana i mau alahele wāwae e hele ana ma Ala Po'ipū, ma ka hapa nui o Ala Kinoiki, me Ala Ho'owili ma waena o Ala Po'ipū me ka Makai Promenade.

Ua like ka mana'o o ke po'o kula ma ke Kula Ha'aha'a o Kalāheo, no ka hāiki loa o ke alahele wāwae ma Ala Pu'u, me ka 'ole o ke alahele ma ka 'ao'ao makai o Ala Papalina, mai Ala Waha e hele ana i ka taona.

Ua kō ke Kalana o Kaua'i i ka loa'a 'ana mai o ke kālā no ka waele 'ana i nā Ala Palekana Hele Kula (SRTS) me ka ho'oponopono 'ana i nā alahele wāwae me nā ala paikikala ma Kaua'i Hema, ma kekahi mau kaiāulu 'ē a'e o ka mokupuni kekahi. Ma ka 'Āpana Ho'olālā, ua ho'olako mai ka SRTS i ke kālā no ka ho'okumu 'ana i mau kukui 'olapa wikiwiki ma nā ala e 'a'e ai i kekahi 'ao'ao o ke ala nui ma ke Kula Ha'aha'a o Kalāheo, me ka waele 'ana i mau ala 'a'e alanui i ho'omālamalama kukui 'ia, me ka pena hou 'ana i nā laina ma Ala Po'ipū ma mua o ke Kula Ha'aha'a o Kōloa no ka waele pū 'ana i ala paikikala me ka 'ao'ao o ke alanui. Ua nui ke kāko'o o ke kaiāulu no nā ala SRTS e kū nei, me ka hana ho'oponopono ala e ho'olālā 'ia nei. He mau hana SRTS e hana 'ia nei i kēia manawa ma nā Kula Ha'aha'a o Kalāheo me Kōloa, nāna e ho'ona'auao nei ka po'e haumāna me ka paipai 'ana iā lāko e hele wāwae/holo paikikala i ke kula me ka ho'oponopono 'ana i nā ala SRTS.

### 3.4.1 Nā Kūkulu Kūloko & Nā Mea Ho'ohana

#### 3.4.1.1 Ka Wai

Na ko Kaua'i Ke'ena Mālama Wai (DOW) e ho'olako i ka wai mānalo no nā taona 'elima a pau o Kaua'i Hema. Loa'a ka wai ma Kalāheo-Kōloa ma nā kumu wai, he 'umikūmālu, ma lalo o ka honua. Pauma 'ia, ho'oma'ema'e 'ia, a waiho 'ia nō ma nā pahu, he 'umikūmālima, e waiho nei a puni kēlā wahi.

I ka 2011, 'o ka nui o ka wai i ho'ohana 'ia ma ka 'Āpana Ho'olālā, ma kahi o 3 MGD. 'O ko DOW papahana no ka ho'ohana 'ana i ka wai, 'o ia he 5 MGD i ka 2020 a ma kahi o 6.8 MGD i ka 2050. 'Ike iā Pākaukau 3-2. He mau papahana ma Kaua'i Hema e hana a ho'olālā 'ia nei ho'i no ka ho'ohana 'ana i ka wai, 'o ia ho'i ka waiho 'ana a me ka ho'olaha 'ana, i mea e ho'okō 'ia ai ka nui o ka wai e pono ai ma ka wānana 'ana no ka wā ma mua.

Pākaukau 3-2: Ka Nui o ka Wai e Ho'ohana 'ia nei i ka 2011 me ka Wānana 'ana no nā 2020/2050

Wahi	Ka Nui e Ho'ohana 'ia nei (GPD)		
	2011	2020	2050
<b>Kalāheo</b>	511,000	746,000	902,000
<b>Lāwa'i-'Ōma'o</b>	299,000	458,000	564,000
<b>Kōloa</b>	329,000	798,000	1430,000
<b>Po'ipū</b>	1,844,000	2,953,000	3,970,000
<b>Huina Nui</b>	<b>2,983,000</b>	<b>4,955,000</b>	<b>6,866,000</b>

Ma nā kahawai kahe mau me nā 'auwaha hana 'ia e kānaka e lawe 'ia ai ka wai mānalo 'ole ma nā waihona wai ma Kaua'i Hema. He iwakāluakūmākahi nā wahi waihona wai, 'o ka mea nui loa, 'o ia ka Waitā, na lākou e ho'olako ka wai mānalo 'ole no ka ho'oulu 'ana ma nā 'aina o Kaua'i Hema. Ma waho o nā waihona wai, ma kahi o 0.47 MGD ka nui o ka wai 'ōpala i ho'ohuli a ho'ohana 'ia, me ka wili pū 'ia me ka wai kahe 'aina, no ka hānini wai 'ana ma nā kula kolepa.

### 3.4.1.2 Ka Wai 'Ōpala

'O ka wai 'ōpala a pau i loa'a ma Kaua'i Hema, ho'oma'ema'e 'ia e nā kahua kū ho'okahi a hana pono'i no lākou iho nō ho'i. He iwakāluakūmālima nā kahua ho'oma'ema'e wai 'ōpala ma Kōloa-Po'ipū nāna e ho'olako i nā hōkele nui, hōkele, me nā Hale ke'ena noho. Ho'ohana hou 'ia ka hapa nui o ka wai 'ōpala no ka hānini wai 'ana ma nā kula kolepa, a i 'ole ia e ho'olilo 'ia ma ka luawai. 'O ka ho'omāhuahua kaiahale i ka wā e hiki mai ana, e pono ana ka ho'onui hou 'ana i nā kahua e kū nei, me ke kūkulu paha i kahua hou. Ho'ohana pū 'ia ho'i nā luawai pelapela nui, nā pahu wai pelapela, me nā luawai pelapela ho'okāpili 'ia no ka ho'oma'ema'e 'ana i ka wai 'ōpala me ka ho'olilo 'ana ma Kaua'i Hema, ma nā kūlanakauhale noho kupa kahiko i ka hapa nui o ka manawa.

### 3.4.1.3 Ka Ho'olilo Wai ma ka 'Auwaha

He mau 'auwaha ko Kaua'i Hema no ka wai hālana. Akā, me ke kua'aina lā ka 'Āpana Ho'olālā, 'oiai, kahe a kulu wale iho nō ka wai ki'o i loko o ka lepo i ka wā e li'ili'i ai ka ua, a i 'ole ia e lawe 'ia aku e nā 'auwaha o ka 'āina me nā 'auwaha i waele 'ia e kānaka, a hiki aku i kahawai a hala loa aku i ka moana nui ākea.

He pilikia ko ka 'ao'ao makai o Ala Manookalanipō i ka nui emi 'ole o ka wai hālana, ma nā huina o Ala Ho'one me Ala Ho'owili, i Po'ipū. Mau ia 'ano pilikia no ka mea, he wahi ha'aha'a aku nō ia, 'ole hiki nō ho'i ke kahe ka wai i kai ma ka pāka kahakai. 'OLELO pū ana ke Ke'ena o nā Pāka me nā Hana Ho'onanea me ka po'e wilikī o ka pū'ali koa o 'Amelika, e pili ana i ia pilikia, a loa'a mai kekahī mau hā'ina e ola ai, e pau ai ka pilikia. Eia na'e ka minamina o ka pipi'i loa o nā kumu kū'ai no ia mau hā'ina, a e mau ana nō ke ki'o 'ana o ka wai a hālana wale mai nō.

### 3.4.1.4 Ka 'Ōpala

Na ke Kalana o Kaua'i e 'ohi'ohi ka 'ōpala a pau o nā kūlanakauhale noho kupa, waiho pīpā alanui 'ia, lawe aku nō i ho'okahi o nā kahua ho'olilo 'ōpala he 'ehā, ma laila, ho'opa'apū loa 'ia a lawe 'ia aku i ka waihona 'ōpala o Kaua'i Kalana ma Kekaha. I ke kau wela 2016, e hana 'ia ana ka hana 'ohi'ohi 'ōpala ma ke 'ano he hana nona iho. E koho ana ka po'e kama'aina i ho'okahi o nā pahu, he 'elua ona nui, 96 kālani a 64 kālani. No ka po'e pili i ka 'oihana kālepa, e hana 'ia ana ka 'ohi'ohi 'ōpala ma lalo o ka palapala 'aelike me kekahī mea hana pono'i nāna e 'ohi'ohi a lawe ka 'ōpala, a i 'ole hiki iā lākou iho ke lawe aku i ka 'ōpala i ke kahua ho'olilo 'ōpala. I ka 2013, ma ka 'Āpana Ho'olālā o Kaua'i Hema ka nui kaumaha loa o ka 'ōpala i loa'a mai, ma luna o ko nā 'āpana ho'olālā 'ē a'e. 'O ke kumu no kēia, no ka nui o nā hōkele, nā Hale Papa'i ho'i, me ka nui o nā kula ho'oulu 'ai, he ākea kekahī o lākou a he 'u'uku mai kekahī. Ho'olālā ke kalana no ka 'ohi'ohi 'ōpala 'ōma'oma'o i nā makahiki e hiki mai ana, a puni ka mokupuni, e hana pū 'ia ma ka wā ho'okahi me ka 'ohi'ohi 'ōpala ho'ohuli a ho'ohana hou. I kēia manawa, 'aohe 'āpana ma Kaua'i Hema nāna e 'ohi'ohi i ka 'ōpala 'ōma'oma'o.

Pa'a ma lalo o ka 'aelike 'o Garden Isle Disposal me ke Kalana o Kaua'i, no ka hana a mālama 'ana i ko ke kalana papahana ho'ohuli a ho'ohana hou i ka 'ōpala, 'o ia ho'i nā nūpepa, nā mea 'ea, nā mea aniani, nā tini, me ka pepa mānoanoa. Hiki ke ho'ohuli hou 'ia nā 'ōmole no nā kenikenī he 'elima, e like me ko ka Moku'aina papahana uku pāna'i 'ōmole mea inu HI-5. 'Aole 'ohi'ohi ke Kalana, he 'elua na'e wahi e waiho ai i nā 'ōmole ma Kaua'i Hema. Ma lalo o ka 'aelike me Garden Isle Disposal e hiki ai i ka po'e 'oihana kālepa ke ho'ohuli hou i ka pepa mānoanoa, nā nūpepa, nā pepa ke'ena, nā mea 'ea, nā 'ōmole mea inu HI-5, me nā laholia ho'opa'a huila, a i 'ole, na lākou e lawe ka 'ōpala ho'ohuli i Kaua'i Resource Center ma Lihu'e.

### 3.4.1.5 Ka Ho'olako Uila me ka Ho'oka'a 'Ike

Na Kaua'i Island Utility Cooperative (KIUC) e ho'olako ka uila a puni ka mokupuni ma muli o ke puhi wahie 'ana ma nā Hale ho'ikehu, me ka ho'ohana 'ana i ka mana o ka lā.. I kēia manawa, na nā renewables e ho'olako i 15% o ka uila e ho'ohana 'ia nei. 'EKOLU nā 'oihana nāna e ho'olako i ka ho'oka'a 'ike ma Kaua'i: Hawaiian Telcom, Oceanic Time Warner Cable, me Sandwich Isles Communications.

### 3.4.2 Nā Pāka & Nā Hana Ho'onanea

He 110,66 nā 'eka o nā Pāka Kalana, ho'okahi pāka pono lako 'ole, 'eono pāka kūlanakauhale, 'elua pāka moku, a 'ekolu pāka kahakai. 'O Kōloa Pāka (Knudsen), Kukui'ula Awa Kū Moku Pāka, Puhi Pāka Kahakai, Kalāwa'i Pāka, me Po'ipū Pāka Kahakai kekahī o nā pāka kalana i kaulana a'e. 'O ke Ala Ho'oilina Kōloa, ke Ala Ho'oilina a Kapakai o Māhā'ulepū, ke Ali'i Kūhiō Pāka, me ka Pāka Moku'aina o Wahiawa Mauka kekahī o nā pāka kū i waho o ke kalana (ko ke Kalana o Kaua'i Ke'ena o nā Pāka me nā Hana Ho'onanea). Eia ho'i, ka Māla Lā'au Kaumoku'aina i kaulana i kona paepae pōhaku, lo'i kalo, me ka nui o kona mau la'au, aia nō ia i ke awāwa 'o Lāwa'i, me kekahī mau mahele o ka Pāka Moku'aina o Wahiawa Mauka, aia nō lākou i ka mahele 'ākau o Kōloa-Po'ipū. 'Elua nā kikowaena kūlanakauhale i Kōloa me Kalāheo, loa'a nā pono lako no ka ho'omo'a mea'ai, a hiki ke mālama 'ia nā hālāwai kaiāulu, nā papa, me nā 'aha nui ma laila. He wahi ho'ohana kūikawā 'o Po'ipū Pāka Kahakai no ka ho'ola hou 'ana iā Kāneiolouma Heiau.

'EKOLU nā kula kolepa ma loko o ka 'Āpana Ho'olālā, ho'okuleana pono'i 'ia nō lākou a pau: Pāka Kula Kolepa o Kukuiolono, ka Hui Kolepa 'o Kiahuna, me ke Kula Kolepa o ka hana o Po'ipū, 'o ia kahi i mālama 'ia ai ka PGA Grand Slam ho'okūkū kolepa mai 1994-2006.

### 3.4.3 Ka Palekana o ka Lehulehu ma nā Hana Lawelawe

**Ka Māka'i.** Aia ka 'Āpana Ho'olālā ma lalo o ka mana o ka moku o Waimea, he 311 mile, o ke Ke'ena Māka'i o Kaua'i, he 28 ona māka'i e hana ma o ka Hale Māka'i o Kōloa, 'o ia ho'okahi wale nō ka Hale Māka'i o ka moku. Aia nō iā ma ke kikowaena kūlanakauhale o Kōloa.

**Ka Ho'opio Ahi.** 'Elua hale ho'opio ahi ma Kōloa. Aia ka Hale Ho'opio Ahi o Kōloa ma kahi o ka helena poepoe ma Ala Po'ipū, aia ho'i ka Hale Ho'opio Ahi o Kalāheo ma Alaloa Kaumuali'i, ma ka 'ao'ao o ke kikowaena kūlanakauhale. Iā Koloa wale nō ka po'e mālama ulia pōpilikia (ka'a lawe ma'i), akā, no nā Hale 'elua ke kuleana o ka pane 'ana i nā ulia pōpilikia. Na ke Ke'ena Ho'opio Ahi o Kaua'i ho'i e hana ke Ke'ena no nā Hana Palekana Pili i ka kai, 'o ia ho'i ka po'e kia'iola, me ka "paipai 'ana i ka palekana mau no ka po'e hele kahakai a pau, me ka ho'omākaukau i ona mau limahana no kēia 'ano hana." Ma Po'ipū Pāka Kahakai wale nō kahi e ho'olako 'ia ai me nā kia'iola ma loko o ka 'Āpana Ho'olālā.

**Ka Hana Lapa'au.** Na ko Wilcox Health Hale Lapa'au o Kōloa me ko Hawai'i Health Systems Corporation Hale Lapa'au o Kalāheo nā wahi mākaukau i ka lapa'au 'ana no ko nā kūlanakauhale. Ho'olālā 'o Hawai'i Health Systems Corporation i ka wehe 'ana i Hale Lapa'au hou ma Kukui'ula. No kahana lapa'au i 'oi aku o ke akamai a wikiwiki paha, pono ko Kaua'i Hema po'e kama'aina e hele i ka Hale Lapa'au o Kaua'i Komohana ma Waimea, a i 'ole ma ka Haukapila 'o Wilcox Memorial ma Lihu'e. I kekahī manawa, lawe 'ia ka po'e ma'i i ko O'ahu mau haukapila no ka hana lapa'au i maika'i a'e, a i 'ole ia, inā e pilikia loa. 'OLELO kekahī palapala kaulona a ke Ke'ena o ke Olakino i hana ai, kapa 'ia ho'i ka State of Hawai'i Primary Care Needs Assessment Data Book, ua kuhi 'ia ke Kalana o Kaua'i ma ke 'ano he "Po'e Kānaka i nele i ka lawa 'ole o nā hana lawelawe lapa'au (MUP)."

**Nā Kula & Nā Hale Waihona Puke.** Na ka Papa Ho'ona'auao o ko Hawai'i Moku'aina e mahele iā Kaua'i ma nā mahele 'ekolu, aia i kēlā me kēia mahele, he kula ki'eki'e me kona mau kula waena a ha'aha'a ho'i a pau. Aia ke Kula Ha'aha'a o Kalāheo ma lalo o ko Waimea mahele, alaka'i 'ia e ke Kula Ki'eki'e o Waimea ma Waimea, aia ke Kula Ha'aha'a o Kōloa ma lalo o ko Kaua'i mahele, alaka'i 'ia e ke Kula Ki'eki'e o Kaua'i ma Lihu'e. 'O ka hapa nui o nā haumāna ma kēlā wahi, hele lākou i ho'okahi o nā kula ha'aha'a 'elua o ka 'Āpana Ho'olālā, a laila, komo i ke Kula Waena o Kamakahelei ma Puhi a laila ke Kula Ki'eki'e o Kaua'i ma Lihu'e. He 25-30% o ka po'e haumāna ma ke Kula Ha'aha'a o Kalāheo, noho lākou ma loko o ko Waimea mahele (Burkman, ma ka wala'au he alo ā he alo 2015). Ma ke ākea, 'oi aku ka maika'i o nā pono lako ma nā Kula Ha'aha'a o Kōloa me Kalāheo ma mua o ka mea kūmau e ho'oholo 'ia no ko moku'aina. Ho'okahi nō kula uku ma kēlā wahi, 'o ia 'o Kahili Adventist School K-12. 'O ka Hale Waihona Puke Aupuni o Kōloa wale nō ka hale waihona puke e loa'a ma ka 'Āpana Ho'olālā.

### 3.5 NĀ'ANO LIKE'OLE O KA PO'E LEHULEHU

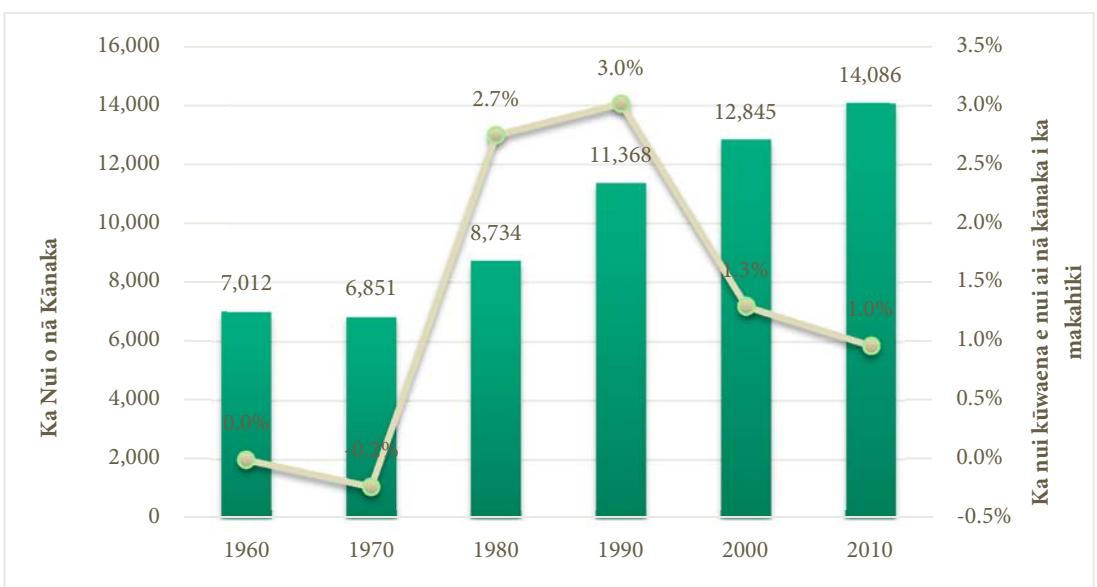
Na kēia mahele a lalo e hō'ike nā 'ike i 'ohi'ohi 'ia mai ke Ke'ena Helu Kanaka 2010 me ka nui o ka po'e e mahu'i 'ia nei no 2035, e like me ka mea i kākau 'ia e ka SMS Research & Marketing Services, Inc. no ke Ke'ena Ho'olālā o ke Kalana no kona Papahana Laulā Ho'ohou 'ia (ho'omaka 'ia i 2015).

#### 3.5.1 Ka Nui o ka Heluna Kānaka

'Elua nā mahele kalana o ka helu kanaka ma loko o ka 'Āpana Ho'olālā (CCD): 'Ele'ele-Kalāheo (407) me Kōloa-Po'ipū (406), e 'ano launa paha me ka 'Āpana Ho'okolokolo o Kōloa. 'O nā wahi i ho'olilo 'ia e ka helu kanaka (CDP) ma loko o ka 'Āpana Ho'olālā, 'o ia nō 'o: Po'ipū, Kōloa, 'Ōma'o, Lāwa'i, me Kalāheo. Me kēia mahele, kuhi ka "Āpana o Kōloa" i nā mahele o ka helu kanaka i ho'ohuihui pū 'ia ('Ele'ele-Kalāheo (407) and Kōloa-Po'ipū (406)), 'a'ole i ka 'Āpana Ho'okolokolo.

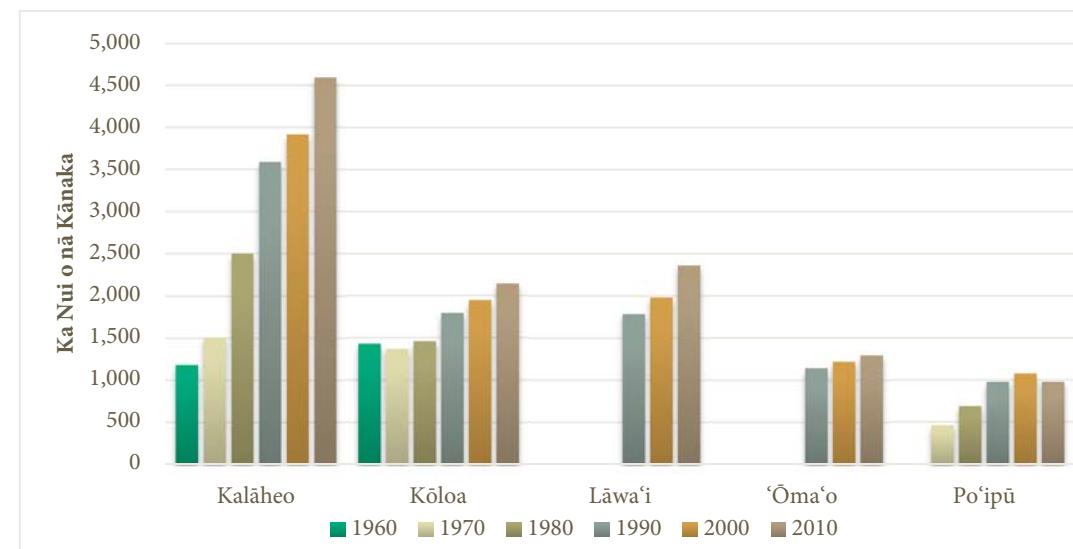
I 2010, ma kahi o 14,000 ka nui i ka po'e e noho ana i ka 'Āpana o Kōloa. He helu kēia e hō'ike ana i ka pālua 'ana mai o ka heluna kānaka ma nā makahiki he kanalima, mai 1960. 'Ike iā Ki'i 3-7. Eia na'e, 'a'ole i pi'i ka heluna kānaka ma ka 'Āpana Ho'olālā ma luna o ka nui i wānana 'ia no nā makahiki he iwakālua, e like me ka mea i hana 'ia ma ka Papahana Ho'omāhuahu Kaiahale no Kōloa-Po'ipū-Kalāheo in 1980. Ua koho ka Papahana i ka helu e nui hou aku ai ka heluna kānaka i kēlā me kēia makahiki, he 4% ma nā makahiki he iwakālua, he 'oi aku ka nui o kēlā ma mua o ka 2% i nui a'e ai ka heluna kānaka ma waena o 1980 me 2000, a ma mua ho'i o ka 1% ma nā makahiki iwakālua nei i hala.

Ki'i 3-7: Ka 'Āpana o Kōloa Heluna Kānaka Kama'āina, 1960-2010



Ma Kalāheo ka nui loa o ka po'e kānaka ma nā wahī a pau o kēia 'āpana 'āina mai 1970. He 4,595 kama'āina i 2010, pālua ka nui o nā kānaka ma Kalāheo ma mua o ka taona aku, nona ka nui loa o nā kānaka ma hope o Kalāheo, 'o ia 'o Kōloa. 'Ike iā Ki'i 3-8.

Ki'i 3-8: Ka Māhuahua 'Ana o ka Heluna Kānaka ma nā Taona, 1960-2010



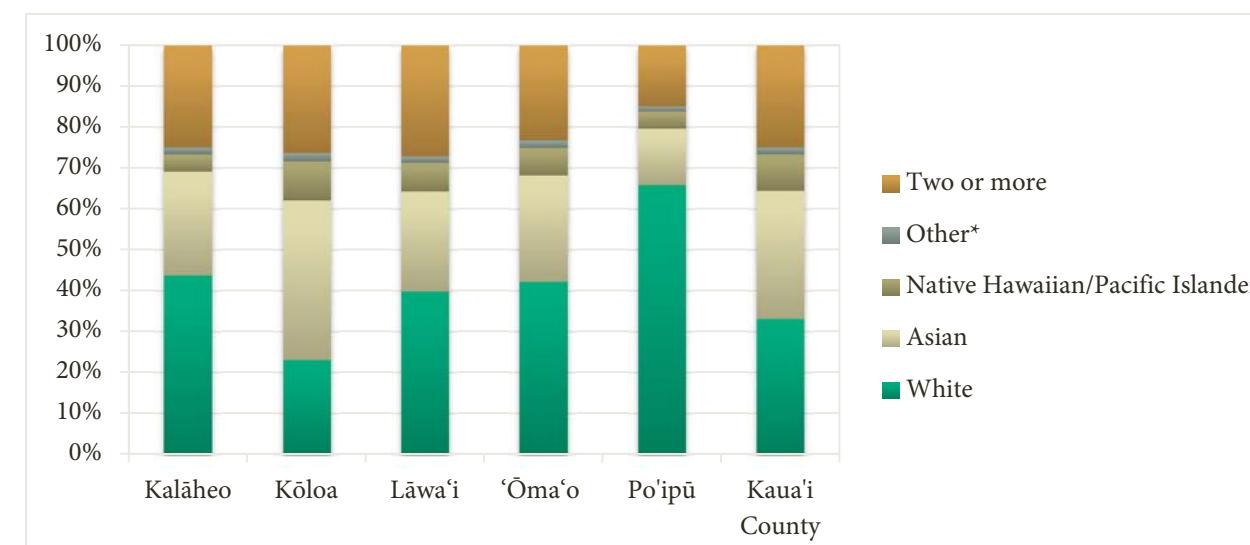
**Ka Heluna Kānaka i Wānana 'ia.** Wānana ka SMS no ka heluna kānaka i 2035, me ke kuhi 'ana no ka 'Āpana Ho'olālā o Lihu'e ka māhuahua kānaka i nui loa aku, ma Kaua'i Hema ho'i ka ulu 'ana i nui a'e ma mua o ka helu kūwaena, me ka ulu 'ana i li'iili'i mai ma ke koena o nā 'āpana. No Kaua'i Hema, e piha ana ka heluna kānaka, he

16,855. I 2010, ma Kaua'i Hema ma kahi o 17.4% o ka heluna kānaka no ke kalana, a wānana 'ia nō, ma laila ka 19.2% o ko ke kalana heluna kānaka i 2035, he 88,013 (SMS 2014).

#### 3.5.2 Nā'Ike o ka Heluna Kānaka

**Nā Lahui e Loa'a.** Mai 1990, 'o ka Haole lāhui nui loa, me ka po'e Asia ma hope mai, he Kepanī a he Pilipino ka hapa nui o lākou. Akā, 'oko'a loa nā lāhui o kēlā me kēia kaiāulu, ke ho'ohālikelike 'ia ho'i me ko ka mokupuni holo 'oko'a. 'Ike iā Ki'i 3-9.

Ki'i 3-9: Nā Lahui ma nā CDP no ke Kalana o Kaua'i 2010



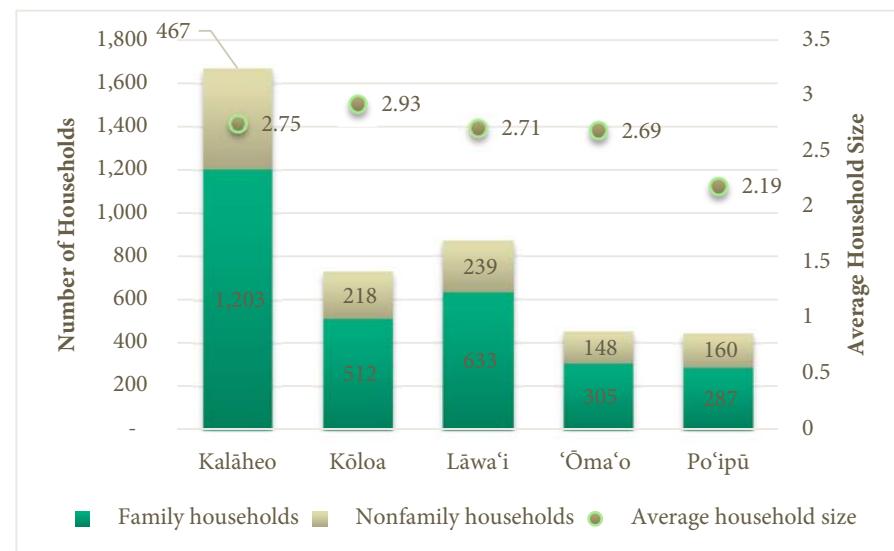
\*Black Alone, Alaskan Native/Native American Alone, Other Alone

**Nā Makahiki Piha Kanaka.** E like me ke koena o ka mokupuni, he poē kūpuna ko Kōloa-Po'ipū CCD. 'O ka nui kūwaena o nā makahiki o ko laila poē i 1970, he 35, ua pi'i maila na'e, he 45 i 2010. 'O ka hapa nui o lākou, ua kupuna a'ela lākou ma mua o ke kalana holo 'oko'a, nona ka nui kūwaena o nā makahiki, he 41.1 i 2010. 'Oko'a loa nā makahiki o ko kēlā CDP, kēia CDP. Ma waena o 2000 me 2010, ua emi ka nui o nā makahiki o ko Kōloa, ua pi'i na'e ia ma nā taona 'ē a'e a pau. I 2010, 'o ko Kalāheo me Kōloa ka poē 'ōpiopio loa, he 36.0 makahiki Kalāheo, a he 36.9 no Kōloa, me ko Po'ipū ka poē kūpuna loa, he 57.2 makahiki.

**Nā Kauhale.** Ma waena o 1990 me 2010, ua nui a'e nei nā kauhale, akā, o ka nui kūwaena o kēlā me kēia kauhale, ua 'u'uku mai ma kēlā me kēia CDP. 'O ka nui kūwaena o nā kauhale ma nā wahi a pau, koe na'e 'o Po'ipū, he 'ekolu kānaka pākahi i 1990; a 2010, ua emi lākou a pau ma lalo o 'ekolu kānaka pākahi. Ua 'ike ka SMS i ka like o kēia 'ano loli kūikawā 'ana ma ko lākou kaulona 'ana, a kuhi lākou i ka waiho pa'a 'ana o ka nui o kānaka ma ka Āpaa Ho'olalā ma ke 'ano e kū nei, 'o ke emi loa, he 2.76 kānaka pākahi i 2035 (SMS 2014). Ma ke ana 'ana i nā kauhale pākahi a pau loa, ua emi ka nui o nā kauhale noho 'ia e ka 'ohana, 'oia na'e ua nui a'ela ka nui o nā kauhale noho 'ia e ka 'ohana 'ole, pēlā pū me nā hale noho ho'okahi 'ia. Ma Po'ipū ka li'il'i loa o nā kauhale noho 'ohana (35.8%), akā, 'ane'ane he 'ekolu hapawalu o ko Kalāheo, Kōloa, Lāwa'i me 'Ōma'o, he mau kauhale noho 'ohana no ko lākou i 2010. 'Ike iā Figure 3-10.

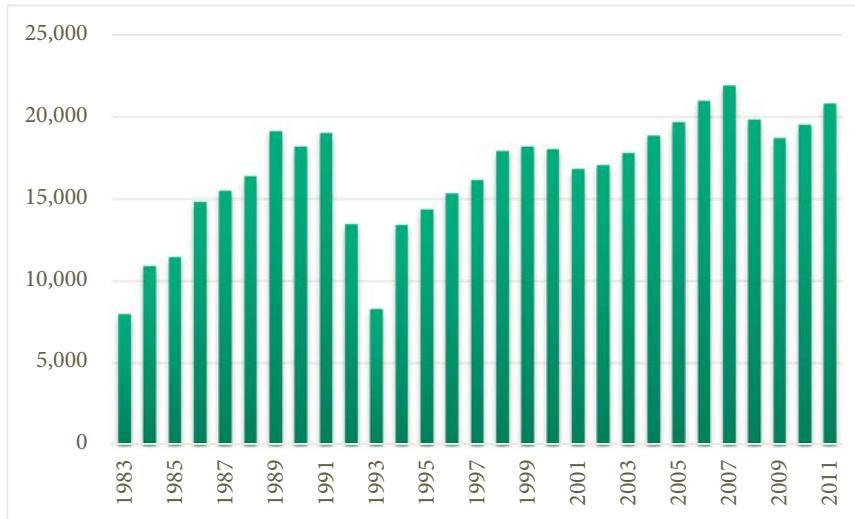
**Ke Kālā Loa'a Mai & Ka Noho 'Ilihune 'Ana.** 'O ka nui kūwaena o ke kālā e loa'a i kēlā me kēia kauhale ma nā CDP a pau, koe na'e 'o Kalāheo, ua nui a'ela nō ma waena o 1989 me 2011, 'o ia ka 'ōlelo a ka American Community Survey (**Error! Reference source not found.**). Ma Po'ipū ke kālā loa'a mai i nui loa aku (\$95,446) me ka nui loa o nā kauhale e loa'a iā lākou ke kālā loa'a mai i nui a'e ma mua o \$150,000. Ua 'ane like ka loa'a 'ana o ke kālā ma 'Ōma'o me Lāwa'i, me ko Kōloa, ka nui i emi loa aku o nā CDP a pau i 1989 me 1999, a pi'i aku na'e a 'oi aku kona nui ma mua o ko Kalāheo CDP.

Figure 3-10: Number & Types of Households by Town, 2010



Aia nā CDP a pau, koe na'e 'o Kōloa, ma lalo o ka helu o ke kalana e hō'ike ana i ka noho 'ilihune me ka 'ole, he 7.2%. No Lāwa'i ka helu emi loa, he 1.9%. No Kōloa ka hapa nui o ka noho 'ilihune 'ana, he 10.2% mai 2011.

Ki'i 3-11: Ka Helu 'ana i nā Malihini o ka Lā, Kalana o Kaua'i



### 3.5.3 Nā 'Ike o nā Kauhale

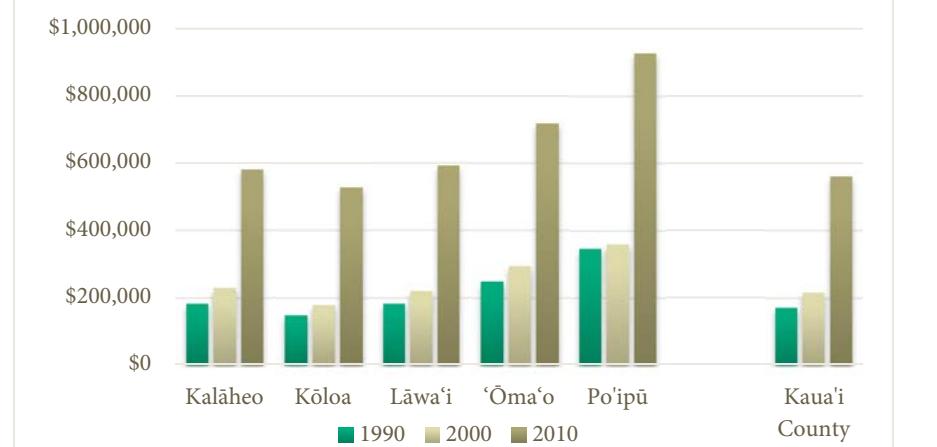
'O ke helu wānana 'ia e nui ai nā kauhale ma nā makahiki he 20, a loa'a ia helu ma ka Papahana Ho'omāhuahu Kaiahale o Kōloa-Po'ipū i 1978, ua nui 'ino a'ela nā kauhale hou. Ua nui a'e nā kauhale o ka Āpana o Kōloa mai 3,952 a i 6,641 kauhale ma waena o 1990 me 2010, he 68% ka māhuahua 'ana, aia ma Po'ipū ka hapa nui. Akā, i ka heluna kānaka 2010, 86% o ko Po'ipū mau kaiahale, he mau hale noho hapa wale 'ia nō. I 2010, ma Kalāheo ka nui loa o nā kauhale, ma kahi o 1,800 hale noho, me Po'ipū ma hope mai (1,588), 'o Lāwa'i (959), 'o Kōloa (814), me 'Ōma'o (493). He 80% a 'oi i nā kauhale noho ma Kalāheo, Lāwa'i, me 'Ōma'o, he mau hale noho 'ohana ho'okahi. I Kōloa, 60% o nā kauhale a pau, he mau hale noho 'ohana ho'okahi, ma Po'ipū ho'i, he 30% paha.

### Nā Kumu Kū'ai Kauhale & Ka Hiki ke Kū'ai.

Ma waena o 1990 me 2010, 'o nā kumu kū'ai kūwaena o nā kauhale, ua pipi'i a'ela ma nā taona a pau, me ka pipi'i wikiwiki 'ana i 'oi aku ma mua o ka pipi'i 'ana o nā kauhale ma ke koena o ke Kalana (Figure 3-12). I 2010, no Po'ipū na kumu kū'ai pipi'i loa no kū'ai hale 'ana, he \$928,600 ke kumu kū'ai kūwaena, me ko Kōloa ke emi loa, he \$528,000 - 'o ka hapalua ia o ko Po'ipū.

Ua pipi'i pū a'ela nā kumu kū'ai ho'olimalima hale ma nā CDP a pau ma waena o 1990 me 2010. Pēlā ka loli 'ana o ka waiwai o kekahi hale, ma Po'ipū ke kumu kū'ai ho'olimalima pipi'i loa a puni ka Āpana, he \$912 i 2000, ua pālua na'e i 2010, he \$1,802, me ko Kōloa ma ka 'ane'ane pālua 'ana, mai \$442 ma mua, a he \$861 i 2010.

Figure 3-12: Median Value, Owner-occupied Housing Units, 1990-2010



### 3.5.4 Ka Ho'okele Waiwai

'Ólelo ka Heluna Kānaka 2010, he 34,981 ka nui o nā 'oihana ma Kaua'i, he 5% ka po'e 'oihana 'ole (Figure 3-13). Hō'ike nā 'ike pili i ke au i hala no ke Kalana o Kaua'i no ka nui 'ana o nā 'oihana, ma ka 1.1% i kēlā me kēia makahiki mai 1990. Mai 1993, 'o ka nui o ka po'e 'oihana 'ole ma ke kalana, ua emi loa, he 2.4% wale nō i 2006, pi'i loa na'e i ka 9.3% i 2009 i ka wā pilikia loa no ka honua holo 'oko'a. Ke ana 'ia ma nā CDP, i 2010, 'o ka nui o ka po'e nona he 'oihana, ma waena ia o 49%-97%, no ka po'e i piha nā makahiki 16 a 'oi, ho'ohālikelike 'ia ia me ko ke Kalana helu, he 78%. Ma kahi o 11%-25% o nā 'oihana a pau ma nā CDP a pau, ma lalo lākou o ke aupuni, 'o ka hapa nui o lākou, ma lalo nō o ka Moku'āina. Ma nā CDP a pau, he hapahā paha o nā 'oihana, pili i ke kālepa me nā hana ke'ena. 'O nā 'oihana lawelawe o nā hale 'aina, ho'okipa, me ka ho'ohau'oli paha, aia ka 18% o lākou ma loko o ka 'Āpana Ho'olālā. 'O nā mea hai limahana he 100, he 16 o lākou, aia nō ma ka 'āpana, 'o ia ka 'olelo a ka palapala ana mana'o a InfoUSA i 2008.

Ma kahi o 30% i nā kauhale noho ma ka 'Āpana Ho'olālā, ua loa'a iā lākou social security, he 40% o nā kauhale ma Po'ipū, loa'a nō iā lākou ka social security, he hōailona ia no kona po'e kūpuna e noho nei i laila.

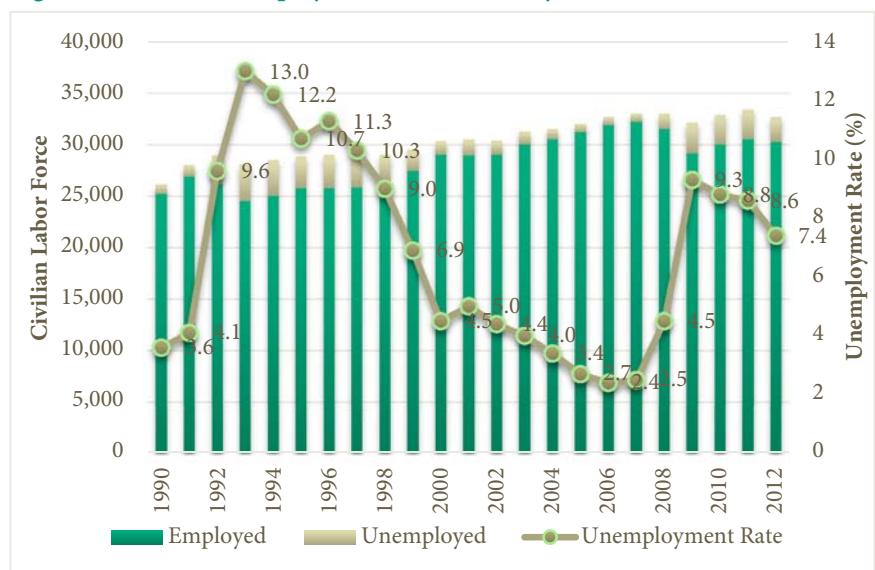
**Holo i ka Hana.** I Kalāheo, 'Óma'o me Lāwa'i, he 86%-89% ka nui o nā kama'āina e hana ma kahi ma 'ō aku o ko lākou wahi e noho ai, a pono ho'i e holo i ka hana. Ma Kōloa me Po'ipū na'e, 25%-40% o ka po'e kama'āina, hana lākou ma laila iho nō. He nui 'ino ka po'e kalaiwa i ko lākou ka'a pono'i no ka holo 'ana i ka hana. 1%-5% ma Kōloa, hele wāwae nō i ka hana, koe na'e ma Kalāheo me Po'ipū, 'a'ohē mea hele wāwae i ka hana.

**Ke Kipa 'ana o nā Malihini.** Ma kekahi lā ma'a mau i 2012, he 22,318 ka nui o nā malihini e kipa ana i Kaua'i. Mai 1983, 'o ka nui o nā malihini ma ka lā ho'okahi (ADVC), ua pi'i a'ela nō, mai ma kahi o 8,000 malihini a 'ane'ane 22,000 malihini i 2007. 'Ike iā Ki'i 3-11. Mahu'i ia nō, e pi'i ana ko ke Kalana o Kaua'i ADVC a i 27,000 i 2035, 'o ia ka 'olelo a ka DBEDT i 'olelo mai nei.

### 3.5.5 Nā Hale Noho Malihini

'Ólelo ko Hawai'i 'Oihana Ho'okipa Malihini (HTA) ma ko lākou 2014 Visitor Plant Inventory (VPI), aia ka nui loa o nā hale noho a ka po'e malihini ma Po'ipū-Kukui'ula, he 36% paha lākou o ko Kaua'i mo'ohelu holo 'oko'a. 'Ehiku nā papahana e makemake 'ia e ho'olālā a ho'oholomua 'ia ai, aia lākou a pau i Po'ipū-Kukui'ula, a he 'elua nā wahi kūkulu 'ole 'ia, nona ke kā'e'i ho'ohana 'aina, he noho kupu ma loko o ka VDA. Inā ho'okō 'ia ke kūkulu 'ana o nā papahana a pau, e kūkulu 'ia ana he 1,961 hale noho ma kēlā wahi. 'A'ole paha kēia e hana 'ia ana i nā makahiki e hiki mai ana, ua hiki paha ke hana 'ia i loko o nā makahiki he 20, e like me ka mea i mana'o 'ia e ka Papahana. He 64% kēlā o ka nui o nā hale noho malihini e kūkulu 'ia ana paha, mai 2014 ma kēlā wahi.

Figure 3-13: Annual Employment, Kaua'i County 1990-2012



No Kaua'i Hema, ma waena o 3,877 a 4,406 mau hale noho malihini ka nui a pono ai i ka hō'ea 'ana i 2035 (SMS model 2014). He 3,065 nā hale noho malihini e kū nei i 2014, 'o ka 'oko'a ma waena o ka nui o ia mau hale e kū nei me ka nui e wānana 'ia, ma waena nō ia helu o 812 me 1,341 mau hale noho. Ma ke ana 'ana me ka helu koho a ka SMS, he 70% ka nui o ka po'e e noho 'ia ai nā hale 'ae 'ia me nā hale e kūkulu 'ia ana paha (1,961), 'o ka 'oko'a ma waena o ka nui o nā hale a pono ai me ka nui o nā hale i 'ae 'ia, ma waena ia o 561 me 32 mau hale noho. Aia nō i ka nui o nā hale kūkulu maoli 'ia, ma Kukui'ula ho'i me Pilimai ma Po'ipū, me nā wahi nona ke kā'e'i, 'a'ole na'e 'ae 'ia, e 'ane'ane like ana ka nui o nā hale noho malihini me ka nui o nā hale e pono ai, 'o ia ho'i ma ka wānana ho'olawa loa 'ana. Inā hō'apa'apa 'ia kēia kūkulu kaiahale 'ana, a i 'ole emi mai nō ia, e pono ana paha ka 'imi 'ana i nā palapala 'ae. Ma ka wānana 'ana me ka hanapī, he 561 paha ka nui o nā hale e koa 'uhā'uhā wale ana.

### 3.6 NĀ PŌPILIKIA O KA HONUA & KE 'ANO O KE AU

Na nā mahele a lalo nei e hō'ulu'ulu pōkole nā 'ike mai ka Papahana Ho'ēmi i nā Pōpilikia Like 'Ole o ka Honua, i ho'ohou 'ia i 2009, me nā 'ike ma nā paena pūnaewe o ka Ho'opalekana Kānaka o ka Moku'āina (SCD), o ke Ke'ena Ho'oponopono Ulia Pōpilikia Pekelala (FEMA), me ko ka Moku'āina Ke'ena 'Āina me nā Kumuawai, e like me ke 'ano e pili ai lākou i ka 'Āpana Ho'olālā o Kaua'i Hema.

**Nā Makani Pāhili.** Ua pilikia loa 'o Kaua'i i ka pā mai o ka makani pāhili, 'elua manawa ho'i, mai ka wā i mālama mua 'ia ai ka palapala 'ana i 1950—'O 'Iwa i 1982 me 'Iniki i 1992. Ua nui 'ina ka pohō ma Kaua'i Hema ma hope o nā 'ino 'elua, pohō loa ho'i 'o Po'ipū. Akā, ua kūkulu hou 'ia nā kaiahale ma nā wahi like, a he mau kaiahale pa'apū ma kapakai ka hopena, ua koi 'ia na'e e waele i nā kula kolepa ma kahi kokoke aku i kapakai, me ka ho'onui 'ana i nā pilikai e ke'ake'a ai ke kūkulu hale 'ana.

**Ke Kai Ho'ē'e.** He 'umi a 'oi paha nā kapua'i i pi'i loa mai ai ke kai ma nā kapakai o Kaua'i, he pohō ka hopena, me ka make 'ana o kekahi po'e. 'O nā wahi pakele no ke kai ho'ē'e, ua ho'ohou 'ia nei i 2013.

**Ke Ōla'i Honua.** Ma nā palapala pili i ke au i hala, 'a'ole paha nui loa nā ōla'i ma Kaua'i, 'o Kaua'i paha ka mokupuni e loa'a 'ole ai ke ōla'i mai nā luapele o nā mokupuni 'e a'e o Hawai'i. Akā, mau nō ka maka'u i ka loa'a 'ana o ke ōla'i ma Hawai'i nei, a puni ka Pākipika paha, nāna e ho'onu'u i ke kai ho'ē'e e ke'ake'a ai ka loa'a 'ana mai o nā mea lako no Kaua'i.

**Hāne'e o ka 'Āina & Ka'a a Hā'ule o ka Pōhaku.** Ma ka waele 'ana iā Alaloa Kaumuali'i ma Kalāheo me Lāwa'i, ua pono ka 'oki'oki 'ana i ka 'āina, a kekahi mau wahi o ka 'āina, ua hāne'e ihola, ka'a a hā'ule paha ka pōhaku. Inā pohō ke alanui i ka hā'ule mai o ka pōhaku, ke'ake'a auane'i paha ka holo ka'a 'ana i ia alanui, a he pilikia nui loa ia no loa'a 'ole o kekahi mai alanui 'e a'e e hele ai. Ma Kaua'i Hema, mālama pono 'ia nā alanui mahi kō ma muli o ko lākou hele mau 'ia e ka po'e hana mahi'ai, a 'o lākou paha nā alanui e ho'alo ai i inā pilikia ke alanui i ke ke'ake'a 'ia paha e ka hāne'e 'āina

**Ka Wai Hālana.** 'O ka hopena paha kēia o ka ua nui loa 'ana o ka ua, ka hiki 'ana mai o ka 'ino, ka pi'i loa 'ana mai o ka nalu, ka mālama pono 'ole 'ana i nā 'auwaha ho'oku'u wai kahe 'āina, me ka pi'i 'ana mai o ke kai. 'O ka hū mai o kahawai ma Kaua'i, 'o ia ka wai hālana mai, me ka hiki 'ana o ka 'ino ma nā ua mao 'ole e ma'u ai ka 'āina me ka malo'o 'ole. Ma ka 'Āpana Ho'olālā, ki'o ka wai hālana ma ka pā ho'okū ka'a ma Po'ipū Pāka Kahakai, ma Kalāheo kahawai, ma Po'ipū me Kōloa no ka wai kahe ma luna o ka 'āina, a ma kapakai ho'i ma muli o ka pi'i mai o ke kai.

**Ka Pohō o Nā Paniwai.** Ma Hawai'i, ho'ohana 'ia nā paniwai me nā 'āina kumu wai no ka mahi'ai 'ana, ka waiho 'ana i ka wai mānalo, no ka ho'ēmi 'ana i ka wai hālana, nā hana ho'onanea, no nā kumu 'e a'e ho'i. Aia ma loko o ka 'Āpana Ho'olālā, he 23 paniwai ho'okuleana 'ia, 7 paniwai ho'okuleana 'ole 'ia, e like me ka mea e kuhi 'ia nei ma lalo o ka Hawai'i Dam and Reservoir Safety Act i 2007. Ua ho'oili 'ia ke kuleana o ke a'o 'ana i nā hana palekana pili i nā paniwai, ua ili ia ma luna o ko ka Moku'āina

DLNR, na lākou e ho'okō nā pahuhopu o ka papahana, 'o ia ho'i ka loiilo'i 'ana i nā paniwai, ka hana pū 'ana me ka po'e limahana no ka ho'ohou 'ana i nā Papahana Ho'opakele Ulia Pōpilikia, ka heluhelu 'ana i nā palapala noi 'ae, me ka ho'omākaukau 'ana i kānaka no ka noho palekana 'ana.

**Nā Pōpilikia o Kapakai, Ka Loli o ke 'Ane o ke Au, Ka 'Aai ma Kapakai, & Ka Pi'i mai o ke Kai.** Aia ke kai a puni 'o Kaua'i ke pi'i nei nō me ka wikiwiki he  $1.53 \pm 0.59$  mm/o ka makahiki, he 6 īniha paha/kenekulia, 'ole ho'i like me ka wikiwiki ma nā wahi a'e o ka honua, 'o ka wikiwiki hou 'ana o ka pi'i mai o ke kai, 'ole na'e i 'ike 'ie ma Hawai'i (Sea Grant 2013). 'O nā hopena o ka pi'i mai o ke kai, 'o ka 'aai ma kapakai, ka hū mai o ke kai, ka nu'au'a mai o ka nalu, ka pilikia o ka ho'olilo 'ana i ka wai ma nā 'auwaha, ka wai hālana ma luna o ka 'aina, me ka ma'alahi aku o ka loa'a 'ana mai o ka makani pāhili a kai ho'ē paha (Sea Grant 2013).

Wahi a ka Palapala Loilio'i ka Loli 'ana o ke au ma Kaua'i me kona mau Pōpilikia o Kapakai (KC3HA) i ho'omākaukau 'ia e ka UH Sea Grant College Program, he 'ehā nā pōpilikia nui ma kapakai o Kaua'i: 1) ke kai pi'i ma kapakai me ka pi'i loa mai o ka nalu, 2) ka 'aai 'ana o ka 'aina, 3) ka hū mai o kahawai i uka , me 4) ka makanu. Ua hiki ke loa'a kēia mau pōpilikia ma nā 'ano like 'ole, e 'oi aku nō ka 'ino ma hope o ka loli 'ana o ke 'ano o ke au me kona hopena, 'o ka pi'i mai o ke kai. Ma ka noi'i 'ana o ka po'e 'epukema, ma muli o kēia 'ano loli 'ana o ke au e nui aku ai nā 'ino, he helele'i kāpekepeke o ka ua me nā 'ino, ho'ololi i ke 'ano o ke kai, me ka ho'oma'u loa 'ana i ka 'aina ma nā kapakai, i ākea aku ai nā 'aina i pulu'elo iho (IPCC 2014; PIRCA 2012). 'O nā hopena o kēia mau pōpilikia, 'ike 'ia nō ma ka nui 'ana o ka wai kahekahe, ka hāne'e 'ana o ka 'aina, ke emi 'ana i nā kahakai, me ka pau 'ana o nā pu'u, he mau mea kēia e loli ai ke 'ano o ke kaiāulu. E pono e haku 'ia nā papahana, kānāwai, a loina hou, me ka ho'omana'o mau 'ana i ia mau pōpilikia me ko lākou hopena, 'ole 'o ka mea wale nō e loa'a mai ai ko lākou kumu (Sea Grant 2014). 'O ka hana ma Kaua'i's no ka ho'ēmi 'ana i kēia mau hopena o ka loli 'ana o ke au me nā pōpilikia o kapakai, 'o ia ka ho'oma'ama'a 'ana o ka noho 'ana, me ka ho'ēmi 'ana i ka nui e ho'ohana 'ia ai ka fossil fuel.

Ua kuhi 'o UH SOEST i ka nui i loli ai ko Kaua'i Hema mau kapakai, he loli 'u'uku nō paha a he 'aai o ka 'aina ma ka 1-2 kapau'i o ka makahiki. E pi'i ana paha ka 'aai 'ana i ka pi'i mai i ke kai. I ka wā nei i hala iho, 'o ke emi 'ana o ke one ma Po'ipū Kahakai ka mea e hopohopo nui nei ko laila po'e kama'aina me ka po'e limahana ho'okipa malihini. No ka ho'opau loa 'ana i ia pilikia, ua hana ko ke Kalana o Kaua'i Ke'ena o nā Pāka me nā Hana Ho'onanea i palapala kaulona, me Sea Engineering, Inc. i Malaki 2013, i maopopo ai ke kumu e loli nei nā kapakai ma Po'ipū Kahakai, me ka hana o ka ho'ākea hou 'ana i ke kahaone e like me kona 'ano i 1975. 'O ka mālama 'ana i ke kahaki, ke kūkulu 'ana i paepae pōhaku ma ke ki'owai 'o Keiki, me ke kanu hou 'ana i nā lā'au makai o kona wahi ma mua o ka hiki 'ana 'o 'Iniki, 'o ia nā hana i koi 'ia aku nei.

**Nā Wā Malo'o.** He nui nā hopena o ka wā malo'o, 'ike koke 'ia kekahī, a 'ike lohi 'ia kekahī, ua hiki na'e ke ho'ohui 'ia ma nā 'ano 'ekolu: ka ho'olako mai i ka wai; ka mahi'ai me ka 'oihana kālepa; a me ko ka 'aina, ke olakino o ka lehulehu, me ka ho'opalekana kānaka. 'Olelo ka palapala ho'ike a ka US Drought Monitor, ua malo'o a'ela ka 'aina ma nā kapakai hema o Kaua'i, 'ole paha ia he mea ma'a mau.

**Nā Ahi 'Ā Wale.** Ma hope o 'Iniki i 1992, ua pohō loa ko Kaua'i mau 'aina lā'au ulu wale, 'o ka lū wale 'ia 'ana o nā lā'au ma 'ō ma 'ane'i i nui ai ka hiki i ke ahi ke 'ā wale, ua loiilo'i ko Kaua'i Papahana Ho'ēmi Ahi 'Ā Wale no ka mokupuni i 1994 me 1995, ua kuhi 'ia nā wahi ma ka ma'alahi e 'ā wale a'e ai ke ahi ma laila. Penei nā wahi i nānā 'ia, me ka wehewehe 'ana ma ka Pākaukau ma lalo nei.

Inoa o ka Wahi	'Ā ke Ahi me ka	Pōpilikia	Waiwai
Kōloa/Mauka	Ma'alahi 'ole	'Ano pilikia	'Ano waiwai
Kōloa/Makai	Ma'alahi loa	Pilikia loa	Waiwai loa

Kumu 'Ike: Kalani o Kaua'i (2008, 2012); DLNR, Ke'ena o nā Nahele me nā Holoholona, Papahana Ho'oponopono Ahi (2007); ESRI, ArcGIS World Topographic Basemap (2013).

**Nā Hale Ho'opakele & Ho'omalū.** Ko Hawai'i Moku'aina mau Hale Ho'opakele wehe 'ia no ka po'e lehulehu ma ka 'Āpana Ho'olālā, penei nō:

- Ke Kula Ha'aha'a o 'Ele'ele [No ka po'e 'ihepa + Nā holoholona + Ka heluna kānaka ākea] (652 kānaka hiki ke komo)
- Ke Kula Ha'aha'a o Kalāheo [No ka po'e 'ihepa + Nā holoholona + Ka heluna kānaka ākea] (964 kānaka hiki ke komo)
- Ke Kula Ha'aha'a o Kōloa [No ka po'e 'ihepa + Ka heluna kānaka ākea] (884 kānaka hiki ke komo)

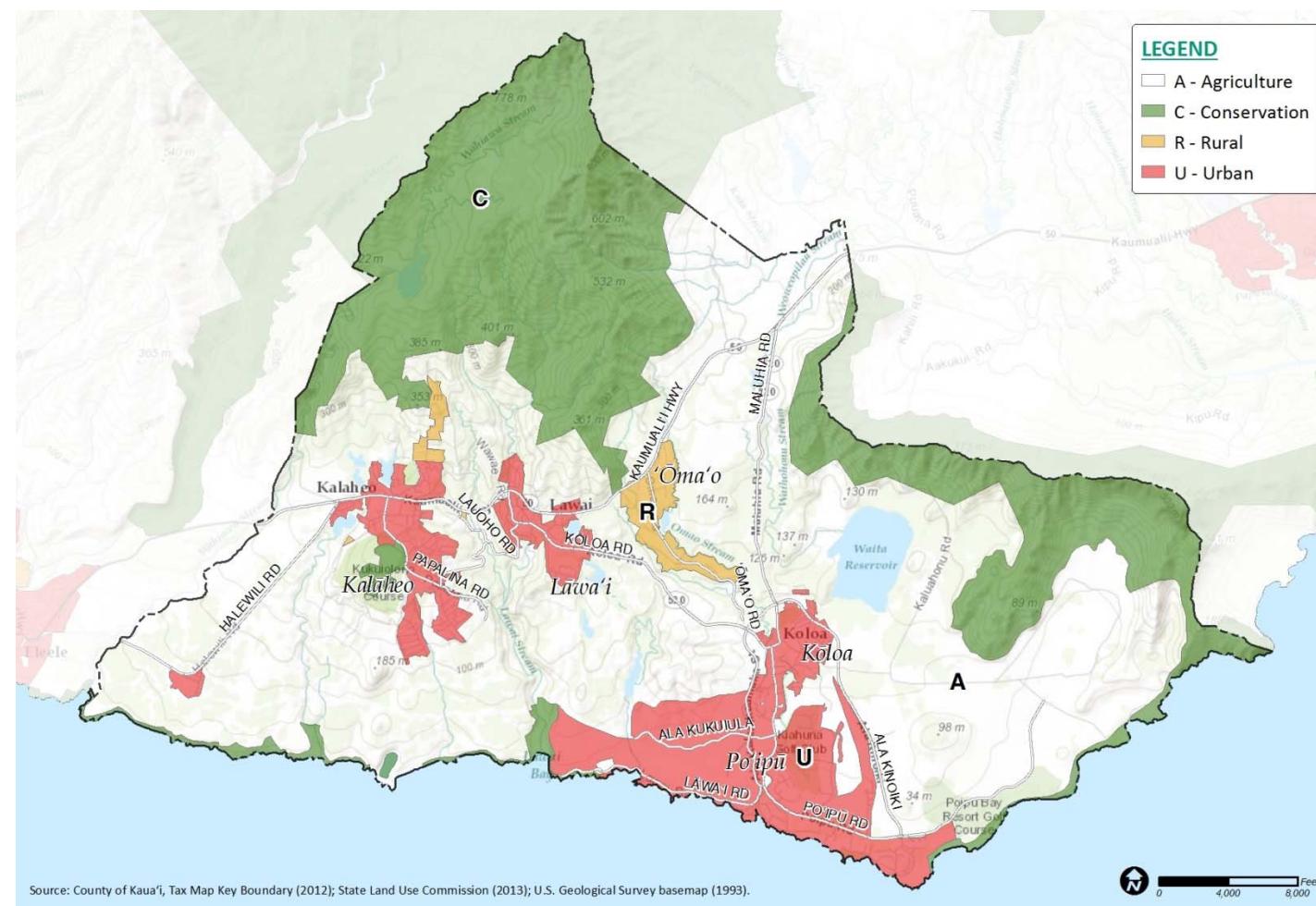
Eia ho'i, 'o nā hōkele nona nā lumi he 500 a 'oi, ua 'ae lākou e kōkua ma ke 'ano ke hale ho'opakele no ka po'e malihini ma waho na'e o ko lākou po'e malihini e ho'okipa nei. Nui nā makahiki i hala me ka 'ole o ka ho'ohou 'ana i ka papahana ho'opakele a ho'opalekana ma nā hōkele nui. Hopohopo 'ia ho'i no ka noho 'ana o ka po'e malihini ma ko lākou hale ho'olimalima, e hiki 'ole ai ke kūkala aku iā lākou i nā 'olelo ho'opakele a 'olelo a'o paha iā lākou.

### 3.7 KA PO'AIAPILI HO'OPONOPONO ME KE'ANO E HO'OHANA 'IA NEI KA 'ĀINA

#### 3.7.1 Ka Po'aipili Ho'oponopono

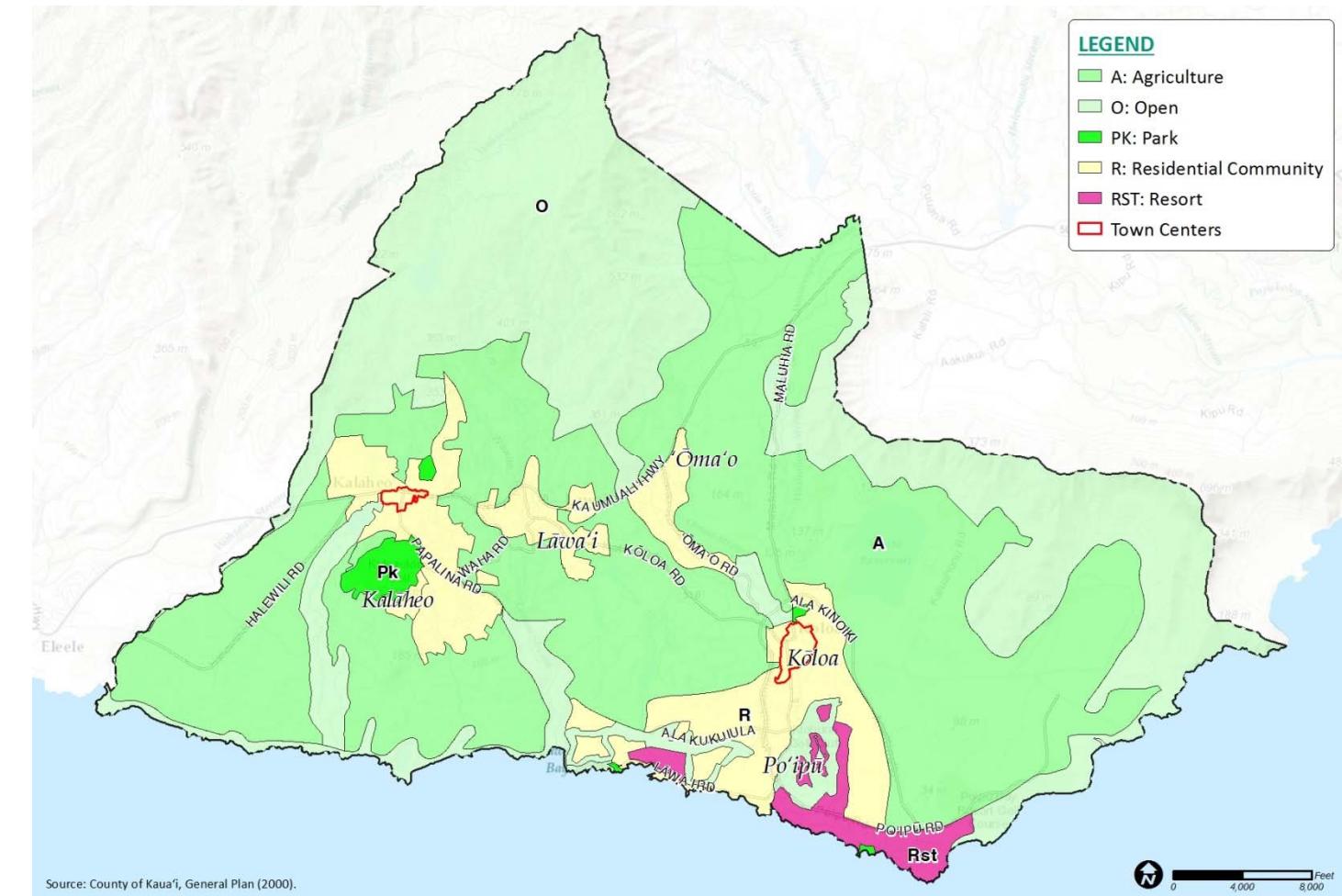
**Nā Āpana Ho'ohana 'Āina o ka Moku'āina.** Ma kahi o 70% o ko ka Āpana Ho'olālā, aia nō ia ma ka Āpana Ho'omaluō. 'O ke 30% i koe, 29% ona, aia ma ka Āpana Mahi'ai, aia ma ka Āpana Kua'aina kekahī hapa ma lalo o ka 1%, aia ma ka Āpana Kiwikā kekahī hapa ma luna iki o ka 1%. Ma nā 'āpana ho'olālā 'eono ma Kaua'i, no Līhu'e wale nō ka 'āina i 'oi aku o ka nui ma lalo o ka Āpana Kiwikā. 'Ike iā Ki'i 3-15.

Ki'i 3-14: Nā Āpana Ho'ohana 'Āina o ka Moku'āina



**Ka Papahana Laulā o ke Kalana o Kaua'i.** 'O ka palapala 'āina no ka ho'ohana 'āina o ko ke Kalana Papahana Laulā, hō'ike ia i ke kulekele no nā ho'ohana 'āina no ka wā lō'ihi, a i 2000 ka manawa hope loa i ho'ohou 'ia ai. Ho'olilo 'o Kalāheo me Kōloa ma ke 'ano he mau Kikowaena Taona, me nā kaiāulu noho kupa e pili nei i ka Ho'ohana 'Āina o ko ka Moku'āina Āpana Kiwikā ma Kalāheo, 'Ōma'o, Lāwa'i, me Kōloa, me ka Ho'ohana 'Āina o ko ka Moku'āina Āpana Kua'aina no 'Ōma'o. 'O Po'iipū-Kukui'ula kekahī o nā wahi ho'okipa malihini 'oi loa, he 'ekolu ma Kaua'i, ma laila ka nui loa o nā hale noho malihini o ka mokupuni holo 'oko'a.

Ki'i 3-15: Palapala 'Āina no ka Ho'ohana 'Āina o ka Papahana Laulā



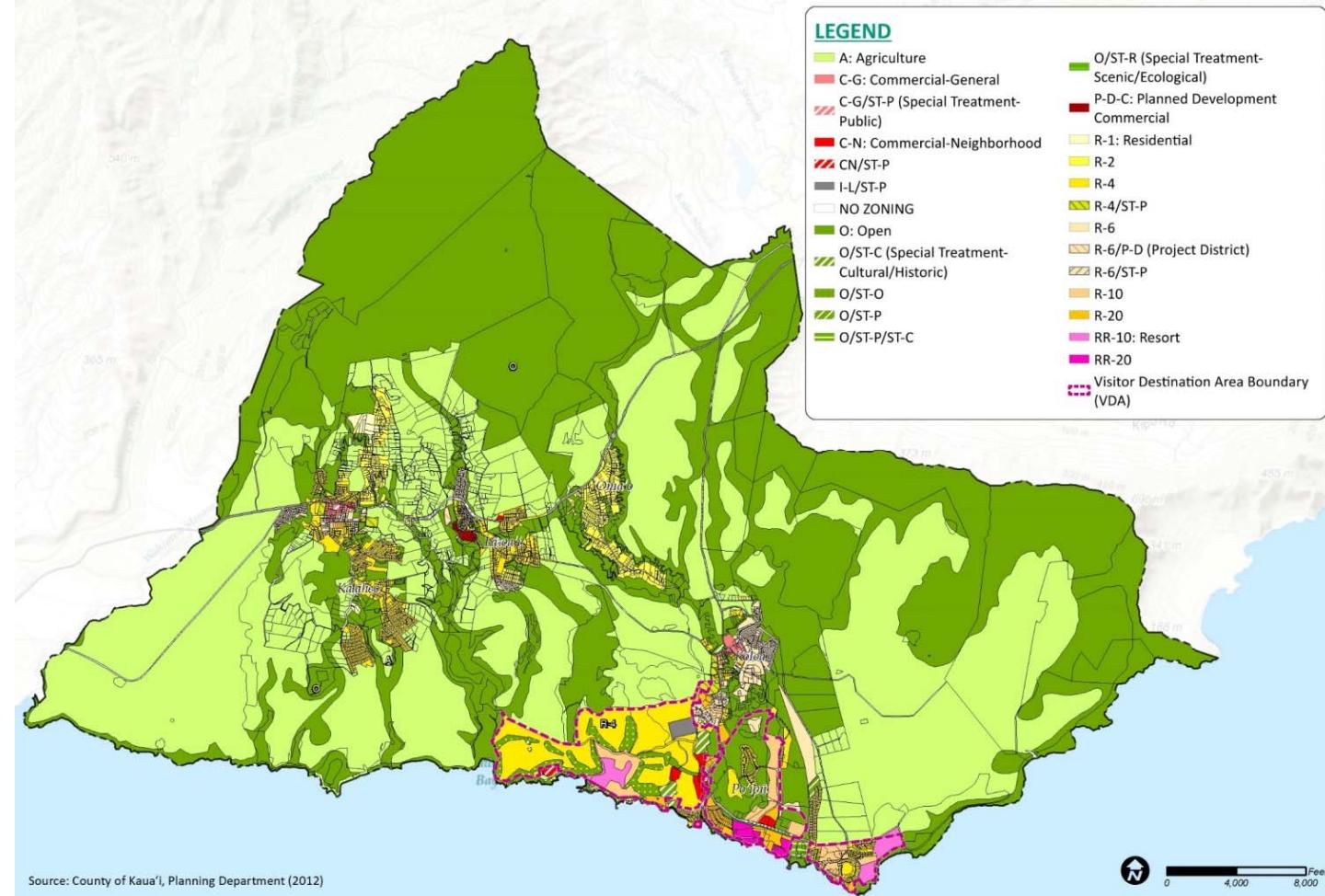
**Ka Papahana Ho'omāhuahua Kaiahale no Kōloa-Po'iipū-Kalāheo.** Ua ho'ohou 'ia ka Papahana Ho'omāhuahua Kaiahale no Kōloa-Po'iipū-Kalāheo i 1978, ho'okahi nō ia o nā papahana 'eono nāna e kuhikuhi aki nā lula e ho'okō 'ia ai nā pahuhopu mau loa o ka ho'omāhuahua kaiahale ma lalo o ko ke Kalana Papahana Laulā. Na kēia Papahana Kaiāulu no Kaua'i Hema e ho'ohou nā palapala 'āina me nā kulekele ho'ohana 'āina o kēlā papahana.

**Nā Kā'ei 'Āina o ke Kalana.** 41% o nā kā'ei 'āina ma ka Āpana Ho'olālā, he kā'ei Mahi'ai. 'O ka helu nui loa ma lalo ona, he kā'ei Ho'omaluō (28%) me Ākea (22%). Ma kahi o 2,500 'eka, 'o ia ho'i he 8% o ka Āpana Ho'olālā, he kā'ei Noho Kupa ia. 'O nā kā'ei 'āina he Hökele Nui (123 'eka), he 'Oihana Kālepa (97 'eka), a he 'Oihana Kāpili (28 'eka) ke ho'ohuihui 'ia, ma lalo ka huina nui o ka 1% o ka Āpana Ho'olālā.

**Kahi o ka Ho'oponopono Kūikawā & ke Ke'ake'a i ke Kūkulu 'Ana ma Kapakai.** 'O ka palena o kahi o ka ho'oponopono kūikawā (SMA), ho'omeheu ia i kahi i ho'olilo 'ia e ka Papahana Laulā ma ke 'ano he "Ākea", ma kapakai ho'i. Ma Po'iipū, ho'omeheu ka palena iā Ala Po'iipū, pi'i aku i uka o Ali'i Kūhiō Pāka, a hele pū nō me Ala Lāwa'i i ke komohana o Kōloa Landing. 'O ke ākea o kapakai e hiki 'ole ai ke kūkulu hale, he 40 kapua'i ka pōkole loa, a he 100 kapua'i paha ka lō'ihi loa, aia nō ma ka nui kūwaena o nā pā, a i 'ole ho'onui 'ia, he 100 manawa i luna o ka wikiwiki e 'aai 'ia nei ke kapakai no nā hale

nona he meheu i 'oi aku o ka nui ma mua o 5,000 kapau'i huinahā. Aia ke Kalana ke ho'oponopono nei i ke kānāwai e ke'ake'a 'ia ai ke kūkulu hale ma kapakai, no laila, a loli ana paha kēia mau koina i ka wā e hiki koke mai ana. 'Ike iā Ki'i 3-18.

Ki'i 3-16: Kāei 'Āina



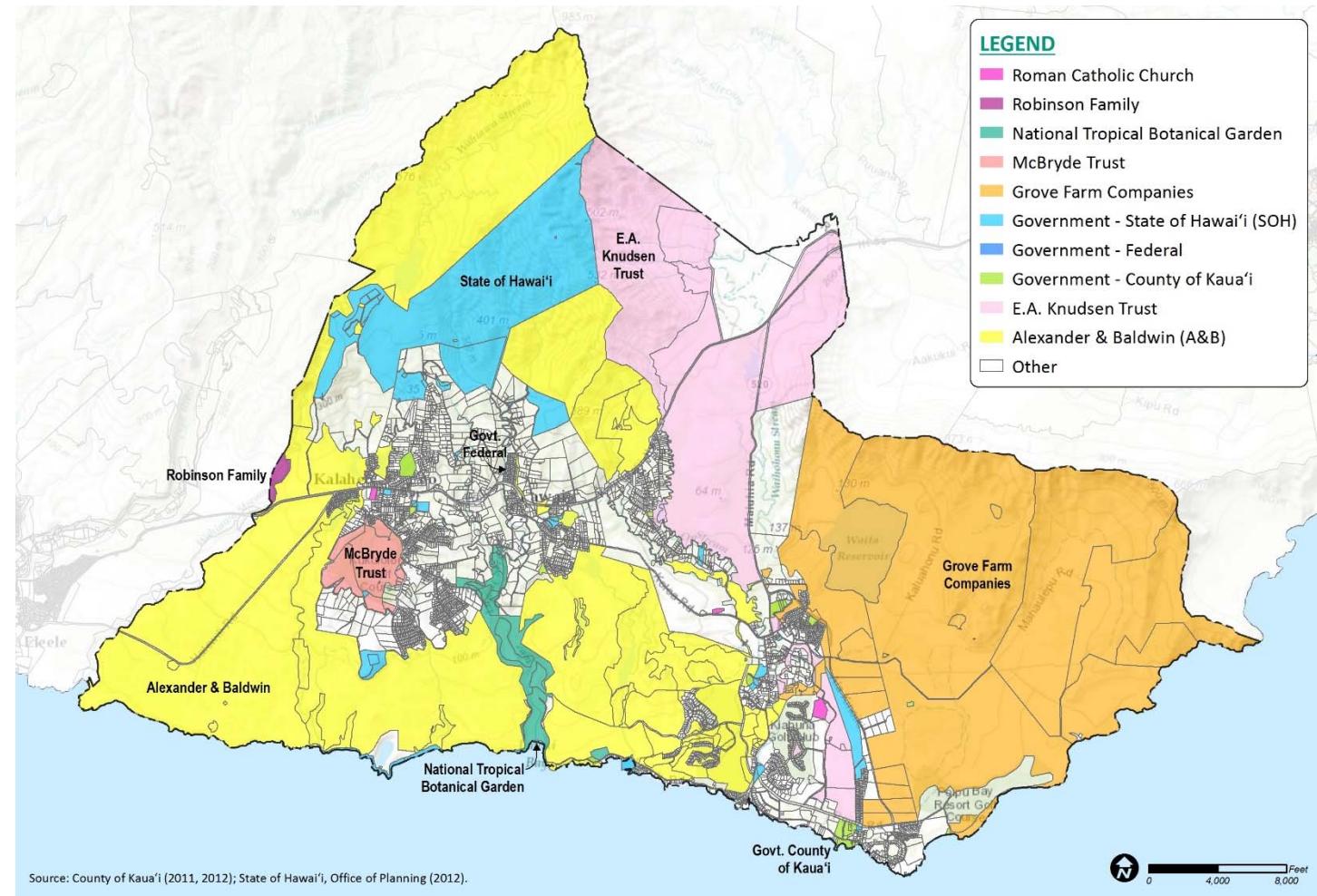
Ki'i 3-17: Kahi o ka Ho'oponopono Kūikawā



### 3.7.2 Nā 'Ano Ho'ohana 'Āina e Kū nei

**Ka Ho'okuleana Uku i ka 'Āina.** 'Ekolu mea ho'okuleana 'āina ma ka uku 'āna, iā lākou ke 61.5% o ka 'āina ma loko o ka 'Āpana Ho'olālā. Iā Alexander & Baldwin he 9,999 'eka (31.9%) ma ke komohana o ka 'Āpana Ho'olālā. Iā Grove Farm Company me kona mau lālā he 7,699 'eka (24.5%) o ka 'Āpana Ho'olālā. Iā Eric A. Knudsen Trust he 1,603 'eka (5.1%). He 7% wale nō nā 'āina moku'āina, kalana, a pekelala ho'i o ko ka 'Āpana mau 'āina. 'O ke 31.5% i koe, aia ia i nā mea ho'okuleana 'āina i li'ilī'i mai, he mau mea kū'oko'a paha. 'Ike iā Ki'i 3-19.

Ki'i 3-18: Nā Mea Ho'okuleana 'Āina Pono'i Nui



**Nā 'Ano Kū i ke Au o ka Ho'omāhuahua Kaiahale.** I ke au i hala, ma kahi o 75 pā ka nui i loa'a ma ke kūkulu 'āna i nā kūlanakauhale haole, i kēlā me kēia makahiki ma ka 'Āpana Ho'olālā. I 2006, ua pi'i loa a'ela kēia helu a 400 a 'oi, ua emi maila na'e i lalo o 50 i 2007. I 2009, 'aohe pā i 'ae 'ia no ke kūkulu kūlanakauhale.

Ma ko ke Kalana Kānāwai Kā'ei (CZO) a koi 'ia ai nā Hale Noho Malihini, e kūkulu 'ia nō ma loko o nā wahi i kuhikuhi 'ia he wahi kipa malihini (VDA) (CZO §8-17.2 & -17.8). Aia ka hapa nui o nā Hale Noho Malihini ma ka 'Āpana Ho'olālā, ka hapa nui ho'i ma Kōloa/Po'ipū/Kukui'ula. 'O nā Hale Noho hapa manawa 'ia me nā Hale Noho 'ohana lau i loa'a ma mua o ka lā 22 o Kepakamapa, 1982, i kū ma waho o ka VDA, ua kuhi 'ia lākou, he Hale Ho'okūlike 'ole e kū nei i ke kānāwai (CZO §8-17.5); 'o nā Hale Noho 'ohana ho'okahi i loa'a ma mua o ka lā 7 o Malaki, 2008, ua kuhi 'ia lākou, he Hale Ho'okūlike 'ole e kū nei i ke kānāwai, aia nō i ka loa'a 'ana o ka Laikini Ho'ohana Ho'okūlike 'ole iā lākou (CZO §8-17.10).

'O nā papahana o ka 'Āpana Ho'olālā i 'ae 'ia paha, 'aole na'e i kūkulu 'ia, ua pili ho'i i ka hōkele nui, ka 'ohana kālepa, ka noho kupa, me ka ho'ohana 'ōā 'ana ('ohana kālepa a noho kupa ho'i), he 1,000 mau hale kūkulu ka huina, he 2,100 hale noho kūikawā, a he 120,000 a 'oi kapua'i huinahā ho'olilo no ka 'ohana kālepa. Aia kēia mau papahana ma Kōloa, Po'ipū, me Kukui'ula, ho'okahi nō papahana ma Kalāheo. 'O nā wahi Hale i emi mai kona kumu kū'ai ma ka 'Āpana Ho'olālā, he 208 Hale papa'i ho'olimalima ma Kōloa, 28 Hale ho'olimalima ma Kalāheo no ka po'e kūpuna, 111 Hale hiki ke kū'ai 'ia ma Kalāheo (13 i pau ka pono ma Po'ipū), a he 37 Hale ma 'Ele'ele, kahi e ho'oponopono ai i ke ola, ma waho aku nō, ma kahi kokoke nō na'e i ka 'Āpana Ho'olālā. 'O ka waiwai kūwaena o nā Hale ma ka 'Āpana Ho'olālā, he \$416,200, no ka 'ohana nona ka 140% o ke kālā kūwaena o ke kalana, he 50% wale nō o nā pā waiwai e lawa ai ko lākou waiwai.

**Ka Ho'olilo 'Ana i nā 'Āina Mahi'ai Ko'iko'i.** I ka 'Āpana Ho'olālā, ua 'ae ko ka Moku'āina Komikina Ho'ohana 'Āina i nā palapala maiā Grove Farm me Alexander & Baldwin, na lākou e ho'olilo nā 'eka he 6,000 paha, ma ke 'ano he 'āina ko'iko'i no ka mahi'ai (IAL). 'Ike iā Ki'i 3-19.

Ki'i 3-19: Nā 'Āina Ko'iko'i no ka Mahi'ai, mai 2013



## 4 NĀ KULEKELE & NĀ LULA

### 4.1 KA HO'OHANA 'ĀINA

Na ko ke Kalana Kānāwai Kā'e 'Āina Ho'omaopopo (CZO), Kānāwai helu 935, me nā palapala kā'e 'āina i kāpili 'ia mai, e hō'ike i nā 'ano e hiki ai ke ho'ohana i ka 'āina no ke Kalana o Kaua'i. Na ka CZO e kuhi aku nā 'āpana kā'e like 'ole, 'o nā ho'ohana 'āina i 'ae 'ia no kēlā me kēia 'āpana, me nā koina me nā mahele hana no ka ho'omāhuahua kaiahale 'ana. Na ka palapala 'āina ho'ohana 'āina o ko ke Kalana o Kaua'i Papahana Kaiāulu e kaha ki'i nā mahele hana e ho'ohana 'ia ai nā 'āina no ka wā lō'ihi e hiki mai ana, ma kēlā wahi o Kaua'i Hema me kona Papahana Kaiāulu a hiki i 2035 (Ki'i 4-1). Kāko'o nō ia i ka hihi'o o ke kaiāulu, e like me ka mea i makemake 'ia, ma ke 'ano nui laulā ma waena o ko ka Papahana Laulā o ke Kalana mau kānāwai ho'ohana 'āina, me ke 'ano makali'i no ka ho'omākaukau 'ana i nā 'āpana kā'e. 'O ka CZO ko ke Kalana kānāwai kumu, a he mana kona ma ka 'Āpana Ho'olālā. Koe na'e ma nā wahi i noi 'ia ma ke 'ano he Wahi Ho'olālā Kūikawā (SPAs), a like me ka mea e wehewehe 'ia ma lalo, a ma ke Kānāwai o Kaua'i Hema (FBC) nō ho'i. Ma nā SPAs, hiki paha ke 'ae 'ia nā koina o ka CZO e ka FBC.

#### 4.1.1 Nā Wahi e Ho'olālā 'Ia Nei, Hele Wāwae 'ia, 'O'a kona 'Ano

I mea e lawa ai ka ulu 'ana e like me ka mea i wāhana 'ia no Kaua'i Hema, me ka ho'okō 'ana i ko ke kaiāulu makemake i wahi noho palekana me nā ala hele wāwae a holo paikikala ho'i, ua koi 'ia nā SPA hou no nā wahi pa'apū e hiki ke ka'apuni 'ia ma ka wāwae, ma nā wahi hou me nā wahi e kū nei. 'O ka pahuhopu o kēia mau SPA, 'o ia ke kuhi 'ana i kahi e nui ana ka ulu 'ana o nā wahi noho kupa, me ke kāko'o 'ana i ka 'ō'a o nā 'ano e ho'ohana 'ia ai no nā 'oihana pili i ke kālepa. He mau wahi kēia e ho'opiha ai, a i 'ole kahi e kohu ai ka ho'omāhuahua 'ana i ka wā e hiki mai ana, no ka mea aia lākou i kahi kokoke i nā wahi hana me nā kikowaena taona me nā wahi e holo ai nā ka'a. E koi 'ia ana nā SPA e ho'okō i nā koina o nā kānāwai ho'ohana 'āina, e like me ka mea e hō'ike 'ia ma ka FBC, mea 'ole na'e ke kā'e i waiho nei. Ho'okāpili 'ia ia mau wahi ma ka pūnana o nā ala hiki ke hele 'ia ma nā 'ano like 'ole ma loko o Kaua'i Hema, i mau ai ke 'ano kua'āina o kēlā wahi, a e paipai ho'i i kānaka e hele wāwae, holo paikikala, a kau ho'i i ke ka'a lawe 'ōhua, i maika'i a'e ke olakino.

'Eono nā wahi e ho'omuku 'ia ai nā Wahi Ho'olālā Kūikawā ma Kaua'i Hema:

- Kōloa Taona
- Kalāheo Taona
- Ke Ala Hele Poepoe o Po'ipū
- Hale Ho'okomo Kini o Lāwa'i
- Po'ipū Gateway Village ho'ohana 'ō'a 'ia
- Numila

'O nā wahi o loko o nā SPA 'ekolu, nona ka Papahana Ho'oponopono, helu 'ia ma ke 'ano he "Kikowaena Kūlanakauhale," "Kūlanakauhale Laulā," a i 'ole ha "Palena Kūlanakauhale" ma ka Palapala 'Āina Ho'ohana 'Āina i hō'ike ai i nā 'ōnohi o ia mau kaiāulu a me ka ne'e 'ana i nā wahi pili mai. 'O kēia mau 'ano ho'olilo 'ana no ka ho'ohana 'āina, aia wale nō paha ma nā wahi o loko o nā SPA.

- **Kikowaena Kūlanakauhale.** He kikowaena o nā pā'oihana kālepa 'u'uku, 'ole kī'eki'e loa, me kahi e noho kupa ai, me kahi no ke kaiāulu ma ke 'ano kua'āina, kūkulu 'ia nā wahi ko'iko'i e like me ke 'ano e hele nei ke ala. 'O nā 'ano ho'ohana 'āina, 'ia ho'i nā 'oihana kālepa, ke ke'ena hana, me nā wahi hale 'āina, nā 'oihana lawelawé, he 'oihana 'u'uku pili i ke kāpili, me ka noho kupa. 'O nā pā'oihana pili i ke kālepa, aia nō ma ke alanui o mua ke pa'apū nei.
- **Kūlanakauhale Laulā.** He hui 'u'uku e hui ai nā pā'oihana kālepa me nā 'oihana lawelawé, 'ole kī'eki'e nā Hale, e lawa ai ke kaiāulu e pili koke ana, He kua'āina ke 'ano o kona nānā 'ana. Like paha ke 'ano o nā Hale ma ko lākou nui a kinona, me nā Hale o nā wahi pili mai.

- **Palena Kūlanakauhale.** 'O ka hapa nui, he mau Hale noho 'ohana ho'okahi a kekahi mau Hale 'u'uku noho 'ohana lau paha, he Hale noho ke 'ano, me ke 'ano kua'āina i kūkulu 'ia ai, me ke kau nui 'ana i ka mana'o i nā ala e hele wawae ai, ka ho'onaninani 'āina, me ka mālama 'ana i nā wahi laulā ākea.

'O nā wahi o nā SPA wale nō ka mea e pono e ho'okō i ka FBC.

'O nā SPA 'ekolu o ka wā e hiki mai ana, i makemake 'ia ho'i, loa'a ka Papahana Ho'oponopono, ke helu 'ia nei lākou he Kaiāulu Nui a he Kaiāulu 'U'uku paha ma Palapala 'Āina Ho'ohana 'Āina, ma muli o kona mau helehelena o kona 'ano ke pau i ke kūkulu 'ia, me ko lākou pilina i nā kaiāulu 'ē a'e i hiki ke hele 'ia ma loko o ka 'Āpana Ho'olālā o Kaua'i Hema.

He mau wahi kēia e pa'a ai nā wahi a nā SPA e kūkulu 'ia ana i ka wā e hiki mai ana a hiki i ke loa'a 'ana o nā Papahana Ho'oponopono. 'Elua nā waiho'olū'u, he poni a he pōpolohua ke 'ano, ma ka Palapala 'Āina Ho'ohana 'Āina. Pono e ho'opau loa aku i nā papahana ho'olālā i mea e kuhi 'ia ai ke 'ano o ke kā'e i kohu ai ma loko o nā palena, ma muli o nā koina e hō'ike 'ia nei i lalo. E koi 'ia ana nō lākou e ho'ohana i nā kā'e i like me ka mea i wehewehe 'ia ma ka FBC no Kaua'i Hema. He Kaiāulu Nui ka Po'ipū Gateway Village ho'ohana 'ō'a 'ia, a he mau Kaiāulu 'U'uku ka Hale Ho'omoko Kini o Lāwa'i me Numila. 'Aole paha e loli nui ana nā wahi a pau o loko o ia mau SPA ma ka ho'ohana 'āina a i 'ole kona ho'okino 'ia 'ana paha. 'O ka 'oia'i'o, 'o ka mea nui o ka FBC ku kūpa'a 'ana me ka launa pono 'ana me nā 'ano e ho'okino a ho'ohana 'ia ai nā Hale e kū nei. Paipai pū 'ia ka mālama me ka ho'ohana hou 'ana i nā Hale Kahiko..

#### 4.1.1.1 Kōloa Taona

Ua maika'i ke ala o mua ma Kōloa Taona i ka hiki ke hele wāwae 'ia, i loko nō na'e o ka li'il'i o nā alahele ka'awale 'ole me nā alahele pa'apū i ka po'e. Maika'i ke 'ano ke kikowaena o Kōloa, me kona malu o nā kumu lā'au 'ohai, me nā Hale pā'oihana kālepa me ka lānai a he kaupoku ko luna, hele 'ia ho'i e Waikomo Kahawai. Pa'apū kona kikowaena, aia nō ma Ala Kōloa ma waena o Ala Po'ipū me Ala Waikomo, a he kāka'ikahi kahi ho'okū ka'a, he pīpā nō ia ma waena o nā ka'a holo ala me ka po'e kānaka hele wāwae, i palekana ai ko Kōloa po'e kama'āina hele wāwae.

I paipai ai kēia 'ano kūkulu pa'apū 'ana, i 'ole e kiko'o kāhelahela wale aku ai 'o Kōloa, ke ho'olālā 'ia nei ka ulu 'ana o kaiahalé ma kēia 'ano pa'apū a lanipō ho'i ma ke kikowaena. Paipai 'ia ka ho'ohana 'āina he 'oihana kālepa ma ke Kikowaena Kūlanakauhale, e pono ana ho'i nā Hale noho kupa hou, he 450, a hiki aku i 2035. E mau ana ke kaupalena 'ia o ke kī'eki'e loa o nā Hale, he 'elua wale nō papahele, e like me ko Kōloa Taona mau kānāwai ho'oponopono kūikawā (KCC §10-6.3(d)).

#### 4.1.1.2 Kalāheo Taona

Aia ko Kalāheo kikowaena taona ma ke alaloa ma waena o Ala Papalina me Ala Hokua, makai aku o Ala Pu'u. Aia ke Kula Ha'aha'a o Kalāheo ma kahi pili mai ma ka hikina, me ke kahawai o Kalāheo ma ke komohana. Kau nui ka mana'o i ka palekana o nā ala hele wāwae me nā ala holo paikikala, no ka ho'okāpili 'ana i nā kūlanakauhale me ke kula, ke Kikowaena Kūlanakauhale o Kalāheo, Kalawai Pāka, e nā ho'ohana 'oihana kālepa ma ke alaloa. Ua 'olelo ke kaiāulu i ko lākou makemake e loa'a kahi mākeke, a Hale kū'ai mea 'ai paha, i Kalāheo, hiki paha ke kūkulu 'ia ma nā wahi hakahaka a nā wahi e kūkulu hou 'ia nei paha ma ke alaloa. Ma muli o ka li'il'i o nā kūkulu kūlokō ho'olako ma kēia wahi, no ka 'ole ho'i o kahi kahua ho'omā'ēma'e wai, he 50 wale nō ka nui o nā Hale noho kupa hou e ho'olālā 'ia nei no kēia wahi a hiki i 2035.

#### 4.1.1.3 Ka Hale Ho'okomo Kini o Lāwa'i

Aia ka SPA o ka wā a hiki mai ana, e lawa ai ka Hale Ho'okomo Kini o Lāwa'i ma nā 'eka he 18 makai aku o Ala Kōloa, loa'a nā ho'ohana 'oihana kālepa e kū nei me nā pā kahiko o ka Hale ho'okomo kini, he PD-C ke kā'e. 'Aole i wānana 'ia ka ulu 'ana ma ia wahi, helu 'ia na'e ma ke 'ano he Kaiāulu 'U'uku, ma muli o nā pā'oihana e ho'olale i ka po'e i laila. E pono ana ka ho'olālā pono 'ana, i kuhi ai i ke 'ano e kohu ai ke kā'e. 'O ka ho'oponopono alahele wāwae, me ka palekana i nā wahi ho'okū ka'a, me ka hiki ke ho'omāhuahua hou i kēlā wahi me ka 'ole o ke komo hou 'ana i ka hana o ka Papahana Ho'omāhuahua Kaiahale, 'o

ia paha ka mea e lilo ai i wahi hele wāwae 'ia mai ka huina alanui aku. Paipai 'ia ke alahele wāwae a holo paikikala ho'i, e mau aku ma Ala Kōloa a hiki i Ala Piko me Ala Oyama, nā ala e hui me ke alaloa ma nā wahi kūna ka'a 'ōhua ma ka Hale Leka o Lāwa'i.

#### 4.1.1.4 Ke Ala Hele Poepoe o Po'ipū

Ua lilo koke ke ala hele poepoe ma Po'ipū i wahi kaumaka no ke kaiāulu, no kona ho'ōnaninani 'ia, aia nō ma Ala Kalanikaumaka, Ala Lāwa'i, me Ala Po'ipū. Hele 'ia e kānaka nā hale kū'ai ma Kukui'ula pili aku i ke ala hele poepoe, kuhu 'ia 'o ia e ka CAC no ka maika'i o kona 'ano i ho'ōokino 'ia ai. Pa'apū 'o loko i nā kānaka hele wāwae, mā'alahi no ka hele 'ana i nā mākeke mahi'ai. No kēia mea, hele nui 'ia nā wahi e pili koke ana i ke ala hele poepoe, me nā ala hele wāwae. Ma ka paipai 'ana i ka 'oi iki aku o ka pa'apū ma kēia wahi ho'ohana 'ō'a 'ia e nui hou aku ai kona hele 'ia e ka po'e hele wāwae me ka holo paikikala. 'Aole helu 'ia nā hale kū'ai ma Kukui'ula ma ka SPA, ma muli o nā kānāwai kaupalena, nāna e ho'oholo kona 'ano e ho'oholo a ho'ōokino 'ia ai.

#### 4.1.1.5 Po'ipū Gateway Village Ho'ohana 'Ō'a 'ia

'O ka hihi'i no ka Po'ipū Gateway Village Ho'ohana 'Ō'a 'ia, he kaiāulu hou ia e ho'ohana 'ō'a 'ia aku, me ka nui a lawa o nā hale noho limahana e kū nei mauka pono o kahi nui o nā hōkele nui ma Po'ipū, i hiki ai ko laila po'e ke hele wāwae, holo paikikala, a i 'ole holo pōkole ma ke ka'a lawe 'ōhua no ka hele 'ana i ka hana a ho'i mai. He 1,100 a 'oi hale noho i ho'olilo 'ia no kēlā wahi no kona ulu 'ana, me kahi kikowaena kaiāulu ho'ohana 'ō'a 'ia, me nā pā'oihana kālepa a hana lawelawе like 'ole e lawa ai ia kaiāulu hou. Ma muli o ka helu koho 'ia e pono ai ka ho'olilo 'ana i 'aina pāka no nā hale noho 1,100, loa'a pū ka ho'olālā 'ana no kekahi pāka 'ehiku 'eka ma Ala Kinoiki, me ka ike le'a 'ana iā Pu'u Wanawana. He wahi ho'omalu, 30 kapua'i, a puni 'o Pu'u Wanawana, me kekahi mau ala pā mau'u paha ma ke kaiāulu pili ana iā Pu'u Hunihuni, i 'ike le'a 'ia ai 'o ia. Malia paha o loa'a ana ke kahua le'ale'a, nā kahua pā'ani, me kekahi kikowaena kaiāulu.

E pono ana ka ho'olālā ka'awale 'ia 'ana no ka 'ike 'ana i nā 'ano like 'ole e lawa ai. Akā, mana'o ka CAC, ma 'ane'i wale nō kahi e kohu ai nā hale he 'ekolu papahele paha ke ki'eki'e ma loko o ka 'āpana ho'olālā holo 'ōko'a. 'O nā kumu no ko lākou mana'o 'ana me kēia, no ko kēia wahi pili kokoke 'ana o kahi o nā hōkele nui e kū nei, kahi e loa'a ai nā hale he 'ehā papahele ke ki'eki'e, me nā hale noho kū'ai emi hiki ke kū'ai 'ia e ka po'e limahana o Po'ipū. Ma uka a ma nā palena hikina ho'i, e pono ana ke ho'ololi 'ia nā kā'e i T3, i kohu like ai me nā 'aina mahi'ai pili mai. E pono ana ke kā'e i lanalana no Po'ipū Gateway Village Ho'ohana 'Ō'a 'ia, ma ke 'ano he koina no ka 'ae mai a ka papahana e loa'a ai nā hale noho hou, he 1,100 a 'oi aku paha.

#### 4.1.1.6 Numila

He wahi 'o Numila e waiho nei i loko o ko ka Moku'āina Ho'ohana 'Āina 'Āpana Kiwikā. E pono ana ke ho'olālā pono 'ia i mea e 'ike ai i nā 'ano like 'ole e lawa pono ai. E pono ana ho'i ke ho'ohui pū 'ia me kahi o ka ulu 'ana o kaiahanale o ka wā e hiki mai ana, i pili me ka Papahana Kaiāulu o Hanapēpē-'Ele'ele. No laila, kaupalena 'ia ka nui o nā hale noho hou, ma kahi o 150 wale nō, e like me nā 'ano e kū nei e holomua ai ka hana.

#### 4.1.2 He 'Āina

'O ka pahuhopu o ka ho'olilo 'ana i ka 'āina i ho'ohana 'ia ai ma ke 'ano he 'Āina, 'o ia ka ho'omalu a mālama 'ana i nā wahi e waiho mau nei me ka 'a'e 'ole a kānaka ma luna, e like me nā kualapa, nā pali kapakai, nā pu'e one, me nā kahakai, me ka mālama kūpale pū 'ana i ko ka Moku'āina Ho'ohana 'Āina 'Āpana Ho'omaluō, nā uka nahele, me nā wahi e ola ai nā lā'au a holoholona paha i pōpilikia loa, me ka mālama wahi pana. Komo pū mai nā Māla Pua a Lā'au o Lāwa'i Kai, he 'ano ia ma lalo o ko ka Moku'āina Ho'ohana 'Āina 'Āpana Ho'omaluō, Nomilu Loko I'a, me nā muliwi o Kalāheo kahawai, me ka hapa nui o ke kapakahi o Māhā'ulepū, mai nā pali 'o Makawehi a hiki i ka lae 'o Kawaihoa. Komo pū nā wahi e puni ana i ke ana 'o Makauwahi me ka heiau 'o Waiopili. Komo 'ole nā 'āina kā'e Mahi'ai a nā 'āina paha i ho'olilo 'ia he 'Āina Ko'iko'i no ka

Mahi'ai (IAL) ma lalo o ko Hawai'i Kānāwai i Ho'oponopono 'ia (HRS) Mokuna 205 Paukū III, a nā 'āina paha i helu 'ia ma ke 'ano he Pāka a Ho'ōnanee paha, 'o ia ho'i nā pāka a wahi ho'ōnanee wehe 'ia i ka lehulehu me nā wahi kū'oko'a.

'O nā 'āina ho'olilo 'ia ma ke 'ano 'Āina, e mau ana ko lākou 'ano kanaka 'ole a hale 'ole, a 'a'ohē ho'i waele 'ana i ke ala nono 'ole, me ke kūkulu 'ana i nā 'ano hale like 'ole 'ē a'e. Koe nā 'āina kuleana, 'o ke kūkulu 'ana i 'ae 'ia, aia nō i ka hiki ke ho'ohana a mālama pū 'ia ma nā 'āina i hana 'ia ma ke 'ano e kū like i ke 'ano kūkulu 'ole 'ia o nā wahi pili mai. 'O nā 'ano ho'ohana 'āina e paipai 'ia ma nā 'āina kā'e 'Āina, 'o ka kūpale, ho'ōla hou, ka ho'oponopono me ka mālama, ka noi'i, ka ho'ona'auao, me ka 'ae 'ana i ka po'e lehulehu e hele i ia mau wahi. Ma kahi e pili ai me nā 'āpana kā'e i kū nei, nona ka hiki ke kūkulu kaiahanale 'ia, a he wahi pa'apū paha, 'o nā pono e kū nei no ke kūkulu kaiahanale, ua hiki iā lākou ke ho'one'e 'ia aku i kahi kūpono, a i 'ole e kū'ai 'ia a ana 'ia ka waiwai, ma muli o nā mea e kū nei a holomua ai ka hana, i 'ole e pilikia.

'Oiai 'o ke kulekele ho'ohana 'āina ka mea kaupalena nui loa 'ia o nā ho'olilo ho'ohana 'āina a pau o ka SKCP, helu pū 'ia kēia mau wahi ma ke 'ano he 'āine kā'e 'Āina ma ka hiki ke kuhikuhi pono aku i ia mau wahi me kona 'ano, e like me nā 'ano e helu 'ia ma lalo nei:

- Nā 'Āpana Ho'omaluō
- Nā 'Āina Wai Kumu
- Nā Nāhele Ho'omaluō a Mālama
- Nā Wahi One me nā Kahakai
- Nā Wahi e Ola Māhunehune ai
- Ke Kā'e Kūikawā o Lāwa'i Kai
- Nā Wahi Paha Mālama 'ia/Kumuwaiwai

#### 4.1.3 He Mahi'ai

'O nā 'āina i ho'olilo 'ia ma ke 'ano he kā'e Mahi'ai, 'o ia nā: 'āina e mahi 'ia nei no ka 'ai, ke kanu 'ana i nā kumu lā'au, me ka ho'oulu 'ana i ka i'a. Eia ho'i, like 'ole ia mau ho'ohana 'ana, he mau kula kahī'ai loloa kekahī, he mau lo'i kalo kekahī, he mau 'āina mahi hē'i kekahī. 'O ke kūkulu kaiahanale noho kupa, aia nō ia ma nā pā nui, a he 'ano 'ōko'a ia e ho'ohana 'ia ai ka 'āina, ma lalo o ka ho'ohana mahi'ai (Opticos), a pono ia ke ho'olawa 'ia ma ke 'ano "hale noho mahi'ai" a "hale noho limahana" paha, e like me ka mea e wehewehe 'ia ma HRS §205-4.5(4) me HRS §205-45.5 no nā mea ma nā 'Āina Ko'iko'i no ka Mahi'ai (IAL).

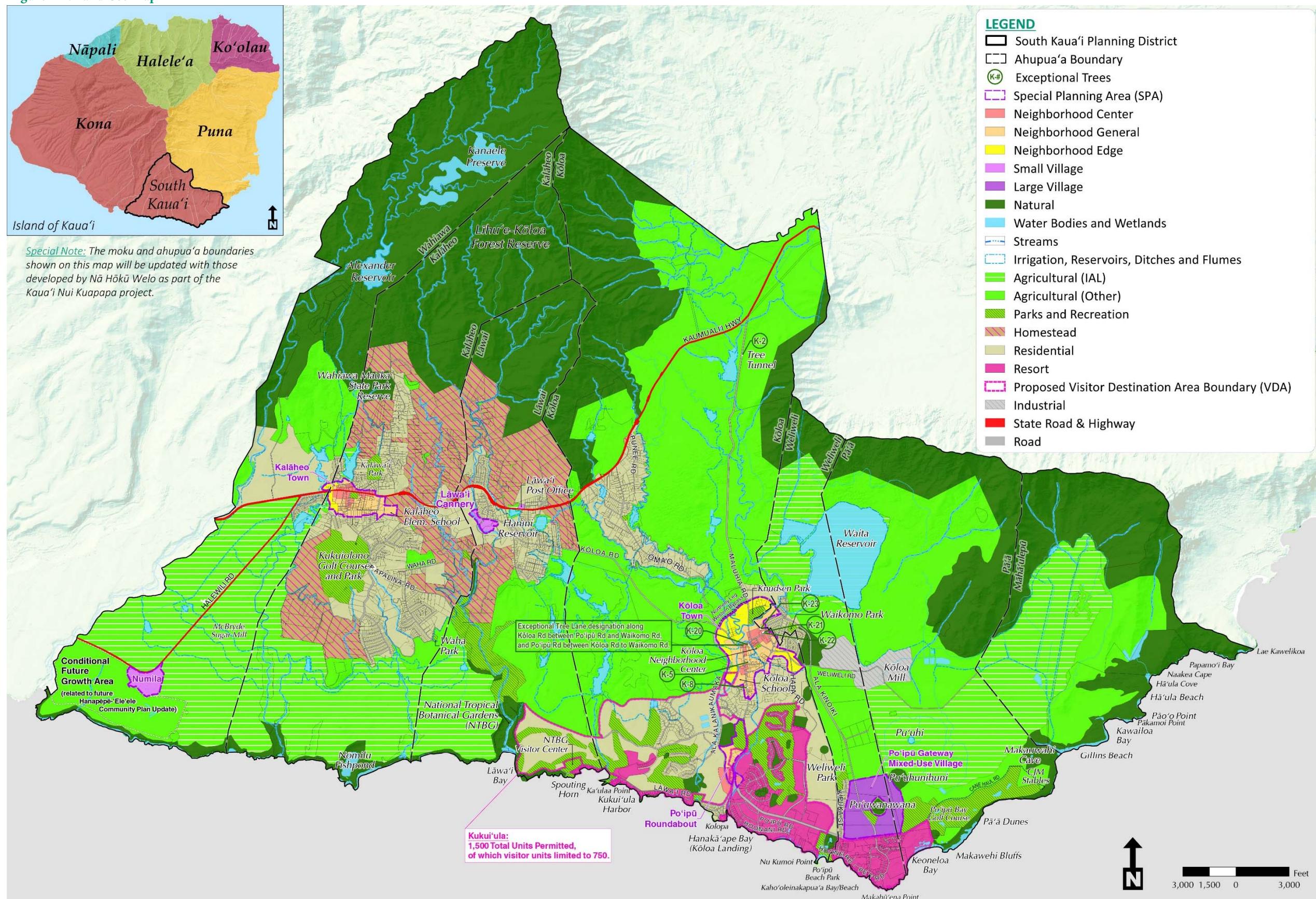
'Elua 'ano hou o ka ho'ohana 'āina Mahi'ai i ho'olilo 'ia ma ka Palapala 'Āina Ho'ohana 'Āina:

**Mahi'ai (IAL).** Hō'ike ka Palapala 'Āina Ho'ohana 'Āina i nā wahi e helu 'ia nei ma ke 'ano he 'Āina Ko'iko'i no ka Mahi'ai, a he 'āina i ho'omoe pū 'ia e nā 'āina Mahi'ai. Komo nā 'āina a pau i helu 'ia ma ke 'ano IAL a hiki i kēia lā, e ko ka Moku'āina Komikina Ho'ohana 'Āina (HRS 205 Paukū III), 'o ia nā 'āina i palapala maika'i 'ia e Alexander & Baldwin (A&B) me Grove Farm Company.

'O nā pahuhopu o nā 'Āina Ko'iko'i no ka Mahi'ai, penei nō: (1) e ho'omalu a kūpale i nā 'āina mahi'ai; (2) e ho'opaipai i ka mahi 'ai like 'ole; (3) e ho'ōnui i ka lawa iā ia iho o ka hana mahi'ai; a (4) e ho'ohiki i ka loa'a o nā 'āina maika'i no ka mahi'ai (HRS §205-41). Wehewehe 'ia lākou, he 'āina ia e (1) hiki ai ke mahi 'ia a nui ka loa'a, ke hana 'ia e like me nā 'ike pili i ka mahi'ai; (2) ho'ōnui i ko ka Moku'āina kumu ho'okele waiwai i loa'a ka 'ai a lā'au paha e ho'olilo ai i ka 'āina 'ē; a i 'ole (3) he 'āina e pono ai no ka ho'opaipai 'ana i ka nui 'ana o nā hana like 'ole pili i ka mahi'ai me loa'a pū mai o ke kālā loa'a i ka wā e hiki mai ana, pēlā pū me nā wahi e ho'ohana 'ole 'ia nei i kēia manawa (HRS §205-42(a)). A kuhikuhi 'ia aku, 'a'ole hiki i kēia mau 'āina ke ho'olilo ma kekahī 'ano 'ē a'e, koe na'e ma ke kohō balota 'ana o ka hapa nui loa o nā hale 'elua o ka 'aha 'ōlelo o ka moku'āina.

**Mahi'ai ('E a'e).** 'O nā 'ano 'āina mahi'ai 'ē a'e o waho o nā IAL, kuhi pū 'ia nō ma ka palapala 'āina. 'O ia nō nā 'āina ho'olilo 'ia ma ke 'ano he 'Āpana Ho'ohana 'Āina Mahi'ai no ka Moku'āina i waho o nā wahi i ho'olilo 'ia ma ke 'ano he 'Āina, 'Āina Ho'opulapula, a Pāka me nā Hana Ho'onanea paha. Ho'oholomua 'ia nā 'āina mahi'ai nui a pili loa, i kokoke a'e i nā IAL i ho'olilo 'ia.

**Figure 4-1: Land Use Map**



#### 4.1.4 He Pāka me he Hana Ho'onanea

'O nā 'aina i ho'olilo 'ia ma ke 'ano he Pāka a Ho'onanea, 'o ia nā pāka me nā māla wehe 'ia i ka lehulehu a uku ho'i, me nā pono lako ho'onanea no ke kaiāulu, e like me nā pāka kahakai, nā kula kolepa, nā kahua le'ale'a, nā kahua pā'ani, me nā pāka moku. Ma kahi o 72 nā 'eka Pāka a Ho'onanea wehe 'ia i ka lehulehu ma loko o ka 'Āpana Ho'olālā, he 35 nā 'eka o nā Pāka a Ho'onanea uku. Helu pū 'ia nā wahi i ho'olilo 'ia no ka lilo 'ana i pāka i ka wā e hiki mai ana, e like me kahi o ka pāka kaiāulu, he 20 'eka, ma Kukui'ula, me kahi i ho'olilo 'ia, he 7 'eka, i pāka ma Po'ipū Gateway Village ho'ohana 'ō'a 'ia. 'O ka māla pua a lā'au ho'i ma Lāwa'i, he 202 ona 'eka o ka 'aina Pāka a Ho'onanea.

##### 4.1.4.1 Ka Hiki ke Kūkulu i mau Pāka Hou a Wahi Ho'omalu 'ia Paha

Nui nā makahiki a Māhā'ulepū i waiho ai ma ke 'ano he wahi nui o nā kumuwaiwai a wahi ho'onanea ho'i, ma muli o ko ka mea nona kēlā wahi hana nui loa 'ana no ke kaiāulu, e hiki ai iā lākou ke hele i laila a mālama i ia wahi ma kona 'ano e kū nei, he wahi na'e ia a ke kaiāulu e no'ono'o nei, no kona maika'i ke ho'omāhuahua a kūkulu 'ia ho'i. Ua 'ike ka Papahana Laulā 2000 i ke kū'ē 'ana o ke noi 'ana o ka mea nona ka 'aina, no ke kūkulu hōkele nui 'u'uku wale nō, me ka makemake o ke kaiāulu e waiho kēlā wahi ma kona 'ano e kū nei, akā, ua 'ike 'ia ka pono a pololei o nā 'ao'ao 'elua. Penei ke kulekele 'ōlelo 'ia ma ka Papahana Laulā 2000 no Māhā'ulepū:

*E komo ke kaiāulu i ka ho'olālā 'ana no Māhā'ulepū. E ho'omana'o 'ia nā kuleana a makemake like 'ole no ka ho'olālā 'ana, me ka 'ole o ke kaupalena 'ia, 'o ia ho'i penei: ka pono mau loa o ka ho'oponopono 'ana i nā 'aina o Māhā'ulepū i mālama 'ia ai ko lākou wahi pana a helehelena ho'i; ka makemake o ka mea nona kēlā wahi e ho'ohana i ka 'aina i mea e loa'a ai ke kālā, ma ke 'ano e mālama pono 'ia ai nā helehelena o kēlā wahi; ka pono e ho'opa'a mau i ka hiki i ka po'e lehulehu ke hele kino aku i ia kapakahi; me ka hiki paha ke kūkulu i pāka ma ia kapakai. (GP 2000)*

'Aole kēia 'o nā mea a pau e ho'omana'o ai, ua hea ka Papahana Laulā 2000 i 'elua koho no kēlā wahi: e 'ae i ke kūkulu 'ia 'ana o kaiahale ma ke 'ano he uku pāna'i no ke kūkulu 'ia 'ana o kekahī Pāka/wahi ho'omalu, a i 'ole ka uku 'ana no ka 'aina i kūkulu ai i pāka Moku'aina.

Aia he hui kaiāulu, 'o Mālama Māhā'ulepū, i hana 'ia i 2000 no ke komo 'ana i ka mālama 'ana i nā kumuwaiwai io Māhā'ulepū, 'o ka mea nui ka ho'oponopono 'ana i kēlā wahi, 'aole e kūkulu 'ia koe na'e no ka mahi'ai, ho'ona'auao, a ho'onanea ho'i. Mai kēlā mua mai, ua ho'olaha nui aku lākou i nā 'ike no nā kumuwaiwai o Māhā'ulepū ma ke a'o 'ana i ke kaiāulu, a kāko'o ke kaiāulu iā lākou no ka mālama 'ia 'ana o kēlā wahi. Ua ho'oholo ka 'Aha Kūkā Kalana i 2001, i kekahī 'ōlelo ho'oholomua e kāko'o ana i ka ho'olālā like 'ana no ka nūnē nui 'ana i nā 'ano e mālama 'ia kēlā wahi. Ua ho'oholo pū 'ia auane'i he 'ōlelo like na ka po'e Lunamaka'ainana me ka 'Aha Kenekoa.

I loko o ka ho'olālā 'ana a ka SKCP, ua hō'ike mai ke kaiāulu i ka makemake e pa'a mau ka hiki iā lākou ke hele kino i ke kapakai. Ua hiki ke hele 'ia ma ke ka'a, ma kekahī ala lepo uku 'ia, kūpale 'ia e ka 'ipuka laka 'ia i ke kau 'ana a ka lā. Hiki ke hele wāwae 'ia ke kapakai ma nā ala pi'i mauna, mai Keoneloa Pāka. 'Auana hele kēia mau ala ho'ailona 'ole a puni ke kula kolepa me nā wahi noho o nā manu kai. 'O ka ho'opa'a mau 'ia 'ana o ka hiki ke hele 'ia ma ke ala uku me nā ala holoholo, 'o ia ka mea makemake 'ia. Akā, e aho ka ho'oponopono i ka hele 'ia 'ana o kēlā wahi, i nui 'ole ai ka maha'oi 'ana o pilikia auane'i kēlā wahi, nā kumuwaiwai, i palekana ai ho'i ka po'e lehulehu.

##### 4.1.4.1.1 Ka Hiki Kino 'Ana me ke Ka'a

Mālama 'ia ke ala uku e ka mea nona kēlā wahi, he lālā ia o nā ala waela 'ole 'ia e hiki ai ke hele 'ia nā 'aina mahi'ai o ke awāwa. Kokoke a'e nō ia i nā hana mahi'ai e loa'a nei. Inā, ma hope o ka loiho pono 'ana, ua 'olu'olu ia i ka mea nona kēlā wahi, e ho'oili aku paha i ke ala ma luna o ke Kalana, inā ho'i e waele aku i ke ala e kō ai nā koina Kalana. He pipi'i loa ka waele 'ana

i ala he 'elua mile ka lō'ihi, akā, e pilikia ana paha kēlā wahi me nā mea ola inā e waele 'ia ke ala, a 'o ia ho'i ka mea e nui 'ino aku ai ka po'e hele i kēlā wahi.

##### 4.1.4.1.2 Ka Hele Kino 'Ana ma ka Wāwae

'O kekahī pahuhopu ka ho'opa'a 'ana i ka hiki ke hele 'ia nā ala kapakai e ka po'e lehulehu, 'o ia nā Ala Ho'oilina o Māhā'ulepū. E wala'au 'ia ana no ka 'a'e 'ana o ke ala i nā kumuwaiwai o kēlā wahi, me kekahī mau wahi pilikia wale i ka hehi 'ia e ka wāwae. E kūpono nō ke ho'omana'o 'ia ke kia'i 'ia 'ana o ke kula kolepa me ke Ana 'o Makauwahi. Inā e pono ke 'imi 'ia ka ho'okuleana 'ana i ka hiki ke hele 'ia e ka lehulehu, a inā e kū ia kuleana i ke kānāwai, he hiki paha ke hana 'ia he palapala ho'omalu, no ke kumu kū'ai kūpono, ma o nā hui 'o ka Hawaiian Islands Land Trust a ka Trust for Public Land paha, i mālama pono 'ia ai nā kapakai o kēlā wahi.

##### 4.1.4.1.3 He Pāka Paha a he Wahi Ho'omalu 'ia Paha

Ma waho o ka ho'opa'a 'ana i ka hiki ke hele 'ia e ka lehulehu, 'o ke kūpale 'ana a mau loa nā kumuwaiwai pili i ka 'aina, i ka po'e 'ōiwi, a i ka hana ho'onanea ho'i, 'o ia ka pahuhopu nui. Ho'okō 'ia paha kēia ma ka ho'okumu 'ana i mau palapala ho'omalu, a i 'ole ka loa'a 'ana o kēlā 'aina e ho'olilo aku ai i pāka a wahi 'ano 'ē a'e me kona ho'oponopono 'ia. Pēlā nō paha e nā ai nā mana'o hopohopo no ka hiki ke hele kino 'ia aku, me ka loa'a pū paha o ke 'ano o ka no'ono'o 'ana e pili ana i ka ho'oponopono 'ana i ko kēlā wahi hele 'ia e kānaka, me ko lākou maha'oi i nā kumuwaiwai. 'O ka palapala ho'omalu, he 'aelike ia e pa'a ai ka mea nona kēlā wahi, e hemo aku kona mau pono a pau e kūkulu kaiahale aku paha ma kēlā wahi, ma o ke kū'ai 'ana i ona mau pono kūkulu kaiahale (PDR) a i 'ole, ma ka ho'olilo i ia mau pono (TDR). 'O kekahī koho ka loa'a kūpono 'ana o ia kapakai i kekahī 'ahahio aupuni a kū'oko'a paha, no ka ho'olilo 'ana i pāka a wahi ho'omalu 'ia paha. Ke nānā nui 'ia nei kēia 'ano mahele hana.

Ua ho'olaha ka National Park Service i kekahī palapala ana mana'i i 2008 no ke kuhi 'ana i kahi e kūkulu 'ia ai paha he pāka ma kapakai o Māhā'ulepū me ka loko i'a 'o Alekoko i Lihu'e. Ma muli o ko lākou loiho mua 'ana, ua 'ōlelo 'ia "Kikina mai ka National Park Service Mahele Komohana e hana 'ia mai ke kaulona kūikawā 'ana i nā kumuwaiwai, a e 'ae 'ia ho'i kēia hana ma lalo o nā 'ōlelo 'aelike o ke Kānāwai Kū i ka Lehulehu 105-391, inā ho'i nānā ia i nā 'ano hou o ka ho'oponopono 'ana, 'aole nā 'ano kahiko, na lākou e 1) hana pū me nā po'e hana kūloko, a 2) hō'ike pū i nā koho e ho'omau 'ia ai nā hana mahi'ai a mālama holoholona ho'i ma nā 'aina mahi'ai uku." (NPS 2008) Ua hō'ike pono mai ka National Park Service i nā wahi kapakai me nā wahi kuahiwai ma Māhā'ulepū, 'o ia nā wahi waiwai loa i ko lākou 'ike. Inā makemake 'ia ka loa'a 'ana o ia wahi i kekahī 'ahahui aupuni, e pono ana ho'i ke ho'omahelehele 'ia ma ke 'ano ke kūlānakauhale, i kō ai kona loa'a 'ana. Penei e mau ai nā hana mahi'ai o ka po'e hana mahi a kū'ai ho'i i ka 'ai i ke awāwa a ma nā 'aina kā'ei mahi'ai ho'i. Eia ho'i, e kūpono ia ke wala'au 'ia no ka mau 'ana o ka hiki ke hele kino 'ia ma nā ala ho'onanea a puni ka 'Āpana Ho'olālā a hiki i kapakai, kahi e maha'oi 'ole 'ia ai nā kumuauwau, kahi e palekana ai ka po'e lehulehu.

#### 4.1.5 He Wahi Wai a he 'Āina Wai

'O ka ho'olilo 'aina ma ke 'ano he Wahi Wai a 'Āina Wai ho'i, 'o ia nā wahi loa'a wale ma ka 'aina, me nā wahi a pau i hana 'ia e kānaka. Hō'ike nō ia, me ka laina polū kikokiko 'ia 'ia, i nā wahi hana 'ia e kānaka, a nā wahi waihona wai paha, no ka ho'ohānini wai 'ana ma Ki'i 4-1. Kāko'o ia mau wahi 'ume maka i nā wahi mahi'ai pili mai iā lākou, iā lākou ho'i e ola ai nā kaiāulu o Kaua'i Hema. E kūpono ia ke kāko'o 'ia ka papahana nui loa no ka mālama 'ana i ka wai ma ka 'Āpana Ho'olālā. Ma kahi o ke kauka'i 'ana i nā papahana li'il'i, pili kūpono i ka ho'omāhuahua kaiahale e li'il'i mai ai ka 'ike, he 'ike i kēlā wahi wale nō me ka 'ole i ka 'ike i ka wahi holo 'oko'a, e pono paha ia ke ho'omana'o 'ia, no ka papahana ho'olālā, ka po'e ho'olako 'ia i ka wai, nā kūkulu kūloko, ka maika'i a maika'i ole paha, me ka ho'oku'u 'ana i ka 'auwaha, me ka ho'oponopono a mālama 'ana ho'i kekahī. Penei nā mahele hana o ka papahana mālama wai:

- Nā 'Āina Wai
- Nā Kahawai
- Nā Ala Wai Hālana
- Ka Ho'okahe Wai, Nā Waihona Wai, Nā 'Auwaha, me Nā Hā Wai

#### 4.1.6 He Noho Kupa

'O nā 'aina i ho'olilo 'ia ma ke 'ano he Noho Kupa, 'o ia nā 'aina e kūkulu ai i mau kūlanakauhale. 'Oiai ua 'ae iki 'ia ka ho'ohana 'ō'a 'ia ma o nā palapala 'ae kā'e, 'o ka hapa nui o kēia mau wahi, he mau hale noho 'ohana ho'okahi, me nā kaiāulu kua'āina, i waho nō lākou o nā wahi i ho'olilo 'ia ma ke 'ano he SPA no ka FBC.

Elua nā 'ano e ho'olilo 'ia ai ka 'aina ma ke 'ano he Noho Kupa ma ka Palapala 'Āina Ho'ohana 'Āina:

**Noho Kupa.** 'O kēia 'ano ho'olilo 'ana ma ke 'ano he Noho Kupa, hahai ia i nā 'aina i ho'olilo 'ia penei e ke Kalana me ko ka Papahana Laulā ho'olilo 'ana i nā 'aina Noho Kupa Kaiāulu, me kekahī mau ho'ololi li'ilii'i, e like me ka mea e hō'ike 'ia ma Mokuna 6. Loa'a pū, ma kēia 'ano, ke kūlanakauhale ho'oka'awale 'ia 'o Brydeswood i ke komohana o Kalāheo. 'O ka hapa nui o ia mau 'ano 'aina, he hale noho 'ohana ho'okahi ma ke 'ano kua'āina.

**Āina Ho'opulapula.** Nui nā wahi 'aina ho'opulapula ma Kauai Hema, me ka hapa nui ma Kalāheo me Lāwa'i, i ho'okumu 'ia i ka ho'omaka 'ana o nā 1900, ma lalo o kae Kānāwai 'Āina 1895. I ma'alahi ai ka hana, ua kuhi 'ia e ke heluna kānaka nā palena wahi no Kalāheo, Lāwa'i, me 'Ōma'o no ko lākou wahi 'aina ho'opulapula. Koi 'ia e ko ka Moku'āina Kānāwai Ho'ohana 'Āina e waiho nā hale noho kupa o loko o ka 'Āpana Mahi'ai o ko ka Moku'āina Ho'ohana 'Āina, ma ko lākou 'ano he "hale mahi'ai", 'o ia ho'i, loa'a ke kēlā i ka mea nona ka hale ma muli o kona 'oihana mahi'ai ma ka 'aina (HRS §205-4.5(a)(4)). Akā, 'ae 'ia nā hale noho 'ohana ho'okahi ma nā wahi 'aina i loa'a ma mua o ka lā 4 o June, 1976 (HRS §205-4.5(b)). Komo mai nā 'aina i kuhi 'ia ma ke 'ano he 'Āina Ho'opulapula e ho'olilo 'ia penei, eia na'e, he Mahi'ai ke 'ano o ke kā'e a 'o ia ke 'ano o ka 'Āpana Ho'ohana 'Āina o ka Moku'āina, no ka mea, ua hiki nō ke ho'ohana 'ia ma ke 'ano he Noho Kupa, a e waiho lō'ihi mai ana nā hale kūkulu 'ia no nā 'ohana ho'okahi e noho ai.

#### 4.1.7 He Hökele Nui

No nā 'aina o loko o nā wahi i ho'olilo 'ia ma ke 'ano he Hökele Nui, 'o ka mea nui e ho'ohana 'ia ai, no ka ho'ohale a lawelawe 'ana i ka po'e malihini e kipa ana i Kauai, me ke kāko'o 'ana i nā wahi pā'oihana kālepa me nā wahi wehe 'ia i ka po'e lehulehu, 'o ia nā wahi ho'okipa malihini. 'O nā 'aina i ho'olilo 'ia me kēlā, hiki paha ke ho'ohana 'ia ma ke 'ano Noho Kupa, me ka ho'ohale 'ana ho'i i ka po'e limahana o ka hökele nui.

Komo pū mai nā 'aina nona ke kā'e Hökele Nui (RR) me nā wahi o nā Hökele Nui ma ka Palapala 'Āina Ho'ohana 'Āina o ka Papahana Laulā, koe na'e nā wahi nui o ka wai, nā wahi 'ume make ho'okikī wai, me nā wahi ho'olilo 'ia ma ke 'ano he Hö'onanea.

'O nā wahi hou i ho'olilo 'ia ma ke 'ano Hökele Nui, no ka ho'oponopono 'ana ia i ka palena VDA ma nā palapala kā'e 'aina, i kūpa'a mau ai nā papahaha ho'olālā no ka wā lō'ihi, me nā kā'e 'aina, me ke 'ano maoli e ho'ohana 'ia nei ka 'aina. Malia paha he mau hale ho'olimalima na ka po'e kipa e ho'okūlike 'ole i 'ae 'ia ma nā 'aina Noho Kupa. Akā, 'aole i 'ike 'ia ia mau hale ma ke 'ano he hui, 'aole lākou i como mai i nā 'aina i ho'olilo 'ia ma ke 'ano Hökele Nui. 'O ka palena VDA e noi 'ia nei, hō'ike 'ia nō ma ka laina 'ākala kikokiko 'ia 'ia ma ka Palapala 'Āina Ho'ohana 'Āina. (Figure 4-1).

#### 4.1.8 He 'Oihana Kāpili

Ma kahi o 160 'eka ma kekahī 'ao'ao o kahi e waiho nei ka Hale Wili Kō o Kōloa, ho'olilo 'ia ma ke 'ano 'Oihana Kāpili ma ka Palapala 'Āina Ho'ohana 'Āina. 'A'ohē 'aina ma ka 'Āpana Ho'olālā i ho'olilo 'ia ma ke 'ano 'Oihana Kāpili. Akā, no ke kāko'o 'ana i nā wahi mahi'ai e māhuahua a'e nei ma ka 'āpana, me ke kahua ho'ohana i ka mana a ka lā, me kahi e kūkulu 'ia ana paha he kahua ho'oma'ema'e wai 'ōpala, 'o ka mea nui e ho'ohana 'ia ai ia mau 'aina, 'o ia ke kāko'o 'ana i nā wahi mahi'ai me ka ikehū ho'ohana hou 'ia. Aia ia mau 'aina ma kahi mamao aku o nā 'aina Noho Kupa a Hökele Nui ho'i, ma kahi kokoke na'e i nā 'aina Mahi'ai me nā alanui loa, Ala Weliweli me Ala Kinoiki, no ka ka ma'alahi.

Ma ka 'aina ho'olilo 'ia he 'Oihana Kāpili, 'ae 'ia ho'i nā wahi no ka ho'omākaukau, ke kūkulu, ka hana, ka lawe, ke kū'ai nui, ka waiho 'ana a kekahī mau hana ho'okele waiwai paha, me nā pono lako e kāko'o ana i ko lākou holomua 'ana. E aho paha ka ho'ololi 'ana i ke kā'e 'aina ma kēlā wahi, a lilo ia i I-G (General Industrial).

#### 4.1.9 Kahi o ka Ulu 'Ana i Pili i ka Papahana Kaiāulu o Hanapēpē-'Ele'ele

'O kahi e loa'a ana ka ulu 'ana o kaiahale, e like me ka mea i pili i ka Papahana Kaiāulu o Hanapēpē-'Ele'ele, he ho'olilo 'ana ma ke 'ano laulā no ka wahi i makemake 'ia e A&B Properties, Inc., e kū nō ia ma ke 'ano he kaiāulu i ho'olālā no'eau 'ia nāna e kāko'o ana i ka ulu 'ana o 'Ele'ele me Port Allen. No ka ho'one'e 'ana i ka palena ma waena o nā 'āpana ho'olālā, aia nō ma loko o ka 'āpana ho'olālā o Kauai Hema. Ma ka palapala 'aina ho'ohana 'aina, hō'ike 'ia ma ke 'ano he wahi ho'opa'a, a e kuhi 'ia auane'i ma ke 'ano he mahele ia o ka Papahana Kaiāulu Ho'ohou 'ia no Hanapēpē-'Ele'ele. 'Aole ho'olawa 'ia ka ulu 'ana o kaiahale noho kupa ma Kauai Hema ma ke 'ano he mahele ia o ka papahana kaiāulu ho'ohou 'ia, 'aole e ho'oponopono 'ia ana nā kā'e. No laila, waiho wale ia ma ke 'ano Mahi'ai ma ka Palapala 'Āina Ho'ohana 'Āina. Hō'ike 'ia kona mau palena ma ke 'ano he mae wahi ho'opa'a, e kālai 'ia ana kēlā wahi ma ka Papahana Kaiāulu ho'ohou 'ia o Hanapēpē-'Ele'ele.

### 4.2 NĀ KAIÄULU HO'OHĀNA 'Ō'A 'IA A HELE WĀWAE 'IA HO'I

Na kēia mahele e hō'ike nā kulekele no ka ho'oholomua 'ana i nā kaiāulu e kū nei ma ka waele 'ana i mau ala hele wāwae 'ia. Ma ke kuhikuhi 'ana i nā wahi pā'oihana kālepa a kū'ai i kokoke a'e i nā wahi noho kupa, e maika'i a'e ka hele 'ana ma nā 'ano like 'ole, ma ke ka'a lawe 'ōhua, ka wāwae, ka paikikala paha, 'aole ma ke ka'a. Aia ka hapa nui o kēia ho'omāhuahua kaiahale i noi 'ia ma nā Wahi Ho'olālā Kūikawā i ka Mokuna 4.1.1. Aia nā koina nui a koina iki no ka ho'omāhuahua kaiahale ke hō'ike 'ia nei ma ka FBC. 'O ka pahuhopu nui ke kau nui 'ana i ka mana'o i ka ulu 'ana ma nā wahi noho pa'apū 'ia, i mau ai ke 'ano kaiāulu, ka waele 'ana i nā ala hele wāwae 'ia, ka ho'omau 'ana i ke 'ano kua'āina o kēlā wahi, me ka mālama 'ana i nā wahi laulā ākea kūkulu 'ole 'ia.

#### 4.2.1 Nā Kūlanakauhale Hele Wāwae 'ia

- E ho'oholomua i nā 'ōnohi taona o Kōloa, Kalāheo, me Po'ipū ma ke 'ano he mau wahi ho'ohana 'ō'a 'ia.
- E kuhi aku i nā wahi pā'oihana kālepa nona nā wahi like 'ole, nā hana lawelawe, nā ke'ena 'oihana, nā hale 'aina, me nā hale kū'ai mea 'ai a mea 'ē a'e i kahi kokoke i hiki ke hele wāwae 'ia mai kahi a ka po'e kama'āina e noho, hana, a ho'onanea ai.
- E kuhi aku i nā wahi ho'olako kaiāulu, nā kula, nā pāka, me nā pono lako ho'onanea i kokoke aku i nā wahi noho kupa.
- E waele i nā alahele wāwae me nā ala holo paikikala ma Kalāheo ma Alaloa Kaumuali'i.
- E kūkulu i kahi kikowaena taona ma Kalāheo ma Ala Papalina ma kahi i mua o nā pā'oihana kālepa.
- E ho'olako i kekahī hale kū'ai mea'ai no ke kaiāulu o Kalāheo.

- g. Ma Kalāheo ka nui loa o nā pā'oihana kālepa ma ke alaloa ma waena o 'Ele'ele me Līhu'e. Na lākou e ho'okō nā pono kūloko me nā pono 'oihana kālepa no ka po'e hele mau ma ia kaiāulu, me ka mālama 'ana i ka nui me ke 'ano o Kalāheo.
- h. Maika'i loa 'o Kōloa me kona ala e kipa nui 'ia, hele wāwae 'ia ho'i e nā kānaka he nui ma Kaua'i holo 'oko'a. E pa'apū ana 'o waena o ka taona, me nā hale noho 'u'uke, pa'apū 'ia, me ka mālama 'ana i ke ki'eki'e o nā hale, he 2-2.5 nō papahele, i hiki ai ke kū'ai 'ia me ka mālama 'ana i ke 'ano kahiko o Kōloa.
- i. 'O ka ho'okipa malihina ka mea e kāko'o 'ia ai kahi hapa nui o nā hana pili i ke kālepa ma Kōloa; akā, 'o ke kūkulu kaiahale 'ano ho'okipa malihini wale nō ka mea e emi ai ka nani me ka u'i o ia wahi ma ke 'ano he wahi kama'aina kahiko. 'O ka ho'ālo 'ana i kēia me ke kaulike 'ana i nā 'ao'ao 'elua ka mea e kāko'o 'ia ai nā po'e kama'aina me nā malihini, a he mea ko'iko'i ia no mālama 'ana i ka mea nui loa o Kōloa, 'o kona kū 'ana i kona wahi.
- j. 'O kahi o nā pā'oihana 'u'uku a pono ka Hale Ho'okomo Kini ma Lāwa'i, e lilo ana paha ia i wahi kipa nui 'ia ma ka hele wāwae 'ia paha, a ho'olilo 'ia paha no ke kūkulu 'ana i nā 'ano hale noho like 'ole 'O ka Hale Ho'okomo kini, he nui ia, ho'ohana li'il'i 'ia na'e ma ke 'ano he waihona; hiki paha ke ho'ohana 'ia ma ke 'ano he wahi ho'ohana hou a kūkulu hou 'ia paha.

#### 4.2.2 Nā Kaiāulu Kua'āina Akāka

- a. E ho'omau i nā kaiāulu e kū maoli i ko lākou wahi.
- b. E mālama i ka 'oko'a ma waena o kēlā me kēia kaiāulu ma ka mālama 'ana i ko lākou mau 'ōnohi ma ke 'ano he wahi pa'a mau, a 'o lākou kahi e ho'olālā 'ia ai ka ulu 'ana. 'O ka ho'omāhuahua kaiahale 'ana, e pono ke mālama 'ia nā 'ano, helehelena ho'i e ho'okino 'ia ai kēlā me kēia kaiāulu.
- c. E kūpale mau i ke 'ano kua'āina o ke kaiāulu, 'a'ole e loa'a ka māhuahua koke wale aku o kaiahale hou aku. E hō'ole 'ia nō ho'i kēia 'ano māhuahua 'ana ma kahi o waena o Kōloa me Po'ipū, i mau ai kēlā wahi kēia wahi ma ke 'ano he kaiāulu kū ho'okahi.

#### 4.2.3 Kahi o nā Hale Noho me nā Koho 'ana

- a. E ho'olako no nā hale noho like 'ole i lawa ai nā 'ano kauhale like 'ole, ka nui o ke kālā loa'a i kēlā me kēia 'ohana, me ka nui iho o kēlā me kēia 'ohana. 'O ka hiki ke kū'ai i hale e noho ai kokoke i kahi a hana ai, me nā hana lawelawe o nā pā'oihana kālepa, me kahi e le'ale'a ai, 'o ia ka mea e kū 'oko'a ai, e hiki ai ke uku 'ia ke kālā ma nā 'ano like 'ole, 'a'ole no ka ho'oholo ka'a wale nō, a ho'oholomua ho'i i ke kaiāulu.
- b. E kau nui ka mana'o no ka ho'one'e 'ana i ka po'e kama'aina ma nā 'āina hakahaka, me nā wahi kokoko a'e i nā kaiāulu e noho 'ia nei. Ma waho o ka lawe 'ia 'ana e nā 'āina ho'olilo 'ia ma ke 'ano he kiwikā, e loa'a ka hapa nui o ka ulu 'ana o kānaka, e like me ka helu i wānana 'ia e ka SMS a hiki i 2035, ma kēia mau wahi penei:
  - Nā 'Ōnohi Taona e Kū nei - Kōloa (24%) me Kalāheo (3%)
  - Po'ipū Gateway (60%)
  - Numila (8%)
  - Nā 'Āina Ho'opulapula (5%)
- c. E kuhi i nā hale noho 'ōā, 'o ia ho'i nā hale noho limahana i kokoke i kahi e hana ai. 'O Po'ipū Gateway Village e ho'ohana 'ōā 'ia he wahi kūpono no ke kūkulu 'ana i mau hale noho like 'ole, nā hale noho limahana pa'apū 'ia, hele wāwae a holo paikikala 'ia i Po'ipū me nā hōkele nui, kahi nui loa o nā 'oihana ma ka mokupuni, ma ka 'Āpana Ho'olālā ho'i. (CH2MHill 2014, Exhibit 3.3). Ua ho'olālā ka CAC i kēia wahi ma ke 'ano he wahi e nui 'ino ana ka ulu 'ana o kaiahale ma ka 'Āpana Ho'olālā, i mea e mālama 'ia ai ke 'ano o nā taona 'ē a'e e kū nei. He 1,000 a 'oi nā hale noho (60% o ka helu wānana 'ia e ulu ana ka po'e kama'aina), ua ho'olilo 'ia ma 'ane'i. Ua ho'olālā pū ka CAC i kēia wahi ma ke 'ano, 'o kahi nui 'ino loa e 'a'e ai ma loko o ka 'Āpana Ho'olālā holo 'oko'a.
- d. E 'ae i ka loa'a 'ana o nā 'ano hale noho 'oko'a, he hale noho 'ohana a he "granny flats" paha ma loko o nā SPA.

- e. E ho'olako i mau hale noho hiki ke kū'ai 'ia, ma Kōloa-Po'ipū ho'i ka hapa nui, he mau wahi nui o nā 'oihana ma ka mokupuni, ma muli o nā kulekele a ho'oholo e ho'opia i ka lawa o nā hale noho hiki ke kū'ai 'ia ma kēlā wahi no ka wā lō'ihi.
- f. E mālama i nā hale noho hiki ke kū'ai 'ia, a e ho'olako i ka noho 'ana e kāko'o 'ia ai ka po'e kūpuna ma ko lākou wahi.

#### 4.3 NĀ 'ANO NE'E'E 'ŌHUA KŪ I KA PŌ'AIAPILI

Ma ka maliu 'ana i nā palapala me nā mana'o o ke kaiāulu i loa'a ma ka ho'omaka 'ana o ka papahana, 'o ka makemake nui loa no Kaua'i Hema, 'o ia ka ne'ene'e 'ōhua i 'oi aku o ka palekana, no ka po'e hele wāwe ho'i me ka po'e holo paikikala, a puni ho'i nā kula. Ua 'ike 'ia ma nā palapala ana mana'o me nā hālāwai lehulehu 'ia i mālama 'ia no ko Kaua'u Papahana Lawelawe 'ōhua ma nā 'Ano Like'ole (2012), penei nā makemake 'elima o ko Kaua'i po'e kama'aina i pili i ka ne'ene'e 'ōhua: 'o ka palekana, ka lawelawe 'ōhua, ka holo paikikala, ka holo wāwae, me nā ala a alaiki kūloko. Ma ka 'Āpana Ho'olālā, ua kuhi mai nā kama'aina i kēia mau mea ko'iko'i no nā pono o ka ne'ene'e 'ōhua ma ko lākou 'āpana:

- Nā ala palekana a nā keiki e hele wāwae a holo paikikala ai
- Nā ala hele wāwae a holo paikikala i ho'opili 'ia me nā kula a hale kū'ai ho'i
- Ka nui pinepine o nā helena ka'a lawe 'ōhua
- Ka ho'omalu 'ia o nā wahi kūna ka'a lawe 'ōhua

#### 4.3.1 Ka Huina Alahela Kāpili Ho'ohana 'Ōā 'ia

'O ka mea nui o kēia mau alahela kāpili 'ia a ho'ohana 'ōā 'ia, 'o ia ka mālama 'ana i kona 'ano e mau nei, me ka waele nui 'ana i nā ala hele wāwae a holo paikikala, i paipai ai i kēia 'ano ne'e 'ana a ka po'e, 'a'ole ma ke kau ka'a ho'okahi wale nō. Eia ho'i, ua ho'opau aku nei ke Kalana o Kaua'i i ko Kaua'i Papahana no ka Huina Alahela Kāpili Ho'ohana 'Ōā 'ia i Kepakemapa 2012, nāna e ho'ēmi loa ka ulu 'ana o nā ka'a a hiki i 2035, 'o ia ka mea makemake 'ia, me ka ho'ohālikelike 'ia me nui 19% i nui a'e ai ka pa'a o ke alanui, a 15% ho'i i pipi'i ai no ka holo ka'a 'ana no kēlā me kēia kauhale (Charlier 2012). I mea e kō ai kēia pahuhopu, e pono ke nui aku ka po'e hele wāwae, holo paikikala, a kau i ke ka'a lawe 'ōhua paha i ko lākou mau wahi e hele ai, e like nō me ka mana'o i ho'opuka 'ia ai ma nā hālāwai o Kaua'i Hema, nui ke kāko'o 'ana o ke kaiāulu i ka ho'opalekana 'ana i nā ala no ka po'e hele wāwae a holo paikikala. No laila, i mea e kāko'o a paipai 'ia ai kēia 'ano loli 'ana no ka ho'omau 'ana i nā 'ano kū ho'okahi o kēia me kēlā taona o Kaua'i Hema, hana 'ia kēia huina alahela kāpili ho'ohana 'ōā 'ia, no kona ho'oholomua 'ana i ka ne'e 'ana a ka po'e hele wāwae a holo paikikala ma nā wahi ko'iko'i o nā taona, me ka ho'opili 'ana i nā taona kekahī me kekahī ma nā ala ho'opili.

#### 4.3.1.1 Nā Hō'ailona ma ka Palapala 'Āina

Na Ki'i 4-2 e hō'ike i ka huina alahela kāpili ho'ohana 'ōā 'ia e noi 'ia nei no Kaua'i Hema. 'O nā alanui kaha 'ia ma ka 'ula'ula, paipai 'ia lākou e mau aku ma ke 'ano he 'elua wale nō ala. Kaha 'ia nā ala poepoe e kū nei ma ke 'ano he pōai 'ula'ula hakahaka ko waena, me nā ala poepoe i noi 'ia, he pōai 'ula'ula piha'ū.

Hō'ike 'ia nā wahi ho'olako no ka po'e hele wāwae ma ka 'ōma'oma'o, me nā laina 'ōma'oma'o kikokiko 'ia 'ia e hō'ike ana i nā ala hele wāwae, a he huinahā 'ōma'oma'o e hō'ike ana i ka pono ke ho'opalekana 'ana i ka po'e 'a'e ma kekahī 'ao'ao o ke alanui ma nā huina alanui. Hō'ike nā laina 'ōma'oma'o mānoanoa i nā wahi e hookāawale ai i ke ala hele wāwae me ke ala holo paikikala.

Hō'ike 'ia nā wahi ho'olako no ka holo paikikala ma ka polū, me nā laina polū mānoanoa e paipai ana i nā ala paikikala ma nā 'ao'ao 'elua o ke alanui, me nā laina polū kikokiko 'ia e hō'ika ana i nā paikikala ma ka 'ao'ao o ke alanui, a i 'ole he ala holo paikikala ka'ana like 'ia.

'O nā mana'o e paipai 'ia nei, kū wale nō lākou i ka no'ono'o 'ana, 'o ka ho'okino 'ana i kēia mau ho'oponopono 'ana, e hahai nō lākou e like me nā mahele hana o ka ho'olālā me ke kūkulu kaiahale 'ana o ka DOT o ke Kalana me ka Moku'āina.

#### 4.3.1.2 *Ka No'i 'Ana no ka Ne'ene'e 'Ōhua*

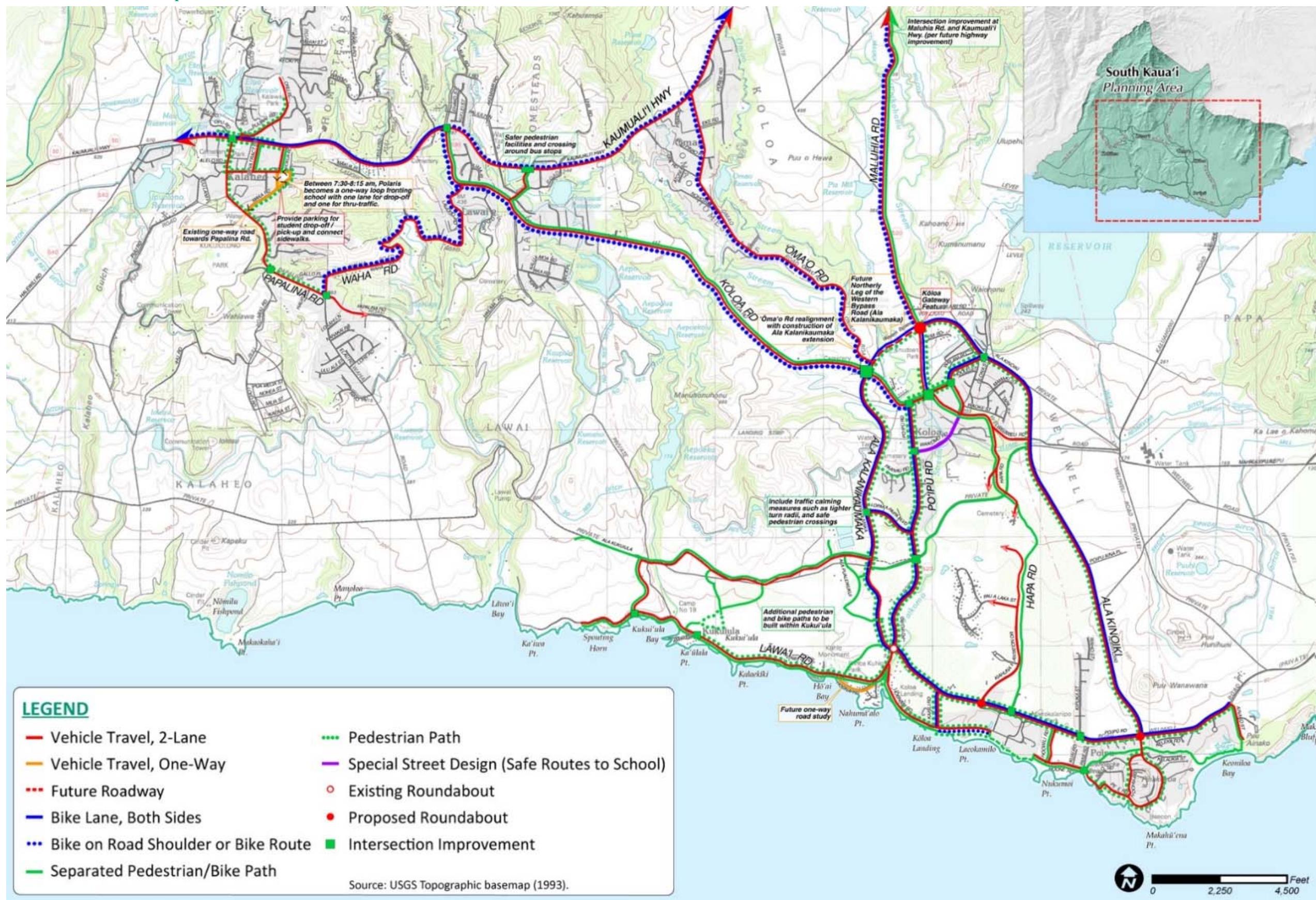
##### 4.3.1.2.1 Kōkua Pekelala i nā Alaloa 2035 Papahana Ne'ene'e 'Ōhua no ka Moku o Kaua'i

'Ölelo ka Papahana Ne'ene'e 'Ōhua 2035 a ke Kōkua Pekelala Alaloa, i ho'omākaukau 'ia e CH2MHill, 'o ka hapa nui o ka ne'e 'ana o nā ka'a ma nā alanui o Kaua'i Hema, he Level of Service (LOS) C me ka launa pono 'ana o ka nui o nā ka'a me ka nui e piha loa ai, he lekiō V/C < 0.8, ma lalo loa ka nui e piha'ū ai nā alanui e kū nei. 'Ike iā Ki'i Ki'i 4-3. Koe wale nō na'e ma kekahi mau ala, kahi ho'i i piha'ū ai ke ala i nā ka'a, ma luna nō paha o ka nui i hiki (LOS F):

- Alaloa Kaumuali'i ma waena o Ala Halewili me Ala Upa (akā, he mau wahi 'u'uku nona ka /C he 0.8 - 1.0, a i 'ole he LOS D a E paha)
- Alaloa Kaumuali'i ma ka hikina o Ala Maluhia
- Ke Ala Poepoe o Po'ipū
- Ka Huina o Ala Kinoiki me Ala Po'ipū

I mea e pau ai kēia mau pilikia i wānana 'ia no ka ne'ene'e 'ōhua, ua ho'olālā 'ia nā ho'oponopono 'ana e uku 'ia e ka Papahana Kōkua Pekelala i nā Alaloa, nāna i ho'opau aku i nā ho'oponopono 'ana i ka ne'ene'e 'ōhua. 'Aole ia i loiilo i ka ho'ololi 'ana mai ke ka'a kau ho'okahi a ke ka'a lawe 'ōhua, holo paikikala, a hele wāwae paha.

Ki'i 4-2: Ka Huina Alahele Kāpili Ho'ohana 'Ō'a 'Ia



## KAUĀ'I HEMA PAPAHANA KAIĀLU | Hō'ulu'ulu Pōkole Ho'okō

Penei nā papahana e ho'opaipai 'ia, e helu 'ia ho'i ma loko o ka 'Āpana Ho'olālā o Kauā'i Hema, mai ka Papahana Pekelala Kōkua Alaloa 2035:

- Ka ho'olaulā 'ana i ke Alaloa Kaumuali'i a he 'ehā ona ala ma ka 'āpana o waena o ke Ala Kōloa me Kalāheo Taona
- Ka ho'oponopono 'ana i ke Alaloa Kaumuali'i ma ka hikina ke Ala Kōloa
- Ka ho'olaulā 'ana i ke Ala Po'ipū i loa'a ai nā ala paikikala, alahele wāwae, me ka ho'oponopono 'ana ia nā huina alanui ma waena o ke Ala Lāwa'i me ke Ala Kinoiki
- Ka waele 'ana i ka 'āpana 'ākau o ke ala Western Access ma ke 'ano he 2 ala e ka'ana a ho'iike 'ia ma ka hōailona mai ke Ala Kōloa a ke Ala Maluhia

Ki'i 4-3: Ka Pa'a Alanui i Wānana 'ia, 2035



### 4.3.1.2.2 Palapala Kaulona no ka Pa'a Alanui me ka Ne'ene'e 'Ohua no Kauā'i Hema CP

Ma ka ho'oholomua 'ana i ka huina alanui ho'ohana 'ō'a 'ia no ia Papahana Kaiālu no Kauā'i Hema, 'o ka po'e wilikī, 'o ia nō 'o Fehr & Peers, ua noi 'ia lākou e:

1. E hō'oa a ho'ohou e like me ka mea e pono ai ka papahana ne'ene'e 'ōhua e kauoha 'ia no ka wā lō'ihi no Kauā'i, kai ho'ohana 'ia ma ka palapala no ka Papahana Ne'ene'e 'Ohua 2035 a ke Kōkua Pekelala Alaloa no ka 'Āpana o Kauā'i.
2. E hō'iike pū i ka ulu 'ana o ka po'e kama'aina ma ka 'Āpana Ho'olālā, e like me ka mea i wānana 'ia e ka SMS.

3. E hō'oa i ka lawa me ka 'ole o nā alanui 'elua ala e ho'iike 'ia nei ma ka 'ula'ula ma ka palapala 'āina, inā e ho'olawa 'ia nā alanui me nā ka'a no ka pa'a alanui i wānana 'ia no ka makahiki 2035, me ka holo ka'a 'ana ma ka nui a ma lalo paha o ka helu i kuhi 'ia ( $V/C \text{ lekiō} \leq 1.0$ ) me ka waele 'ole 'ana i alanui hele kapakai e ho'iike 'ia nei ma ka Papahana Laulā 2000, e hele ana mai Port Allen a Po'ipū (i makemake 'ole 'ia paha no ka nui o ke kumu kū'ai, me nā 'ano maika'i 'ole e loli ai ke awāwa o Lāwa'i e nui ai ka hele mau 'ia 'ana e nā ka'a e makemake 'ole 'ia, me ka ho'omāhuahua mau 'ana aku i kaiahale ma kapakai), a;
4. Inā 'a'ole, e wae i nā ala nāna e ho'ohana 'ia ma luna o ka nui e hiki ai iā lākou ( $V/C \text{ lekiō} \geq 1.0$ ) a me ke kumu o ia mea ('o ia ho'i, 'o ka hapa nui o nā ka'a holo alanui, he ka'a mā'alo wale nō anei, he ka'a kū i loko o ka 'Āpana Ho'olālā paha?). E ho'onooho helu i ka nui o nā helena, pono paha e ho'ololi i ke 'ano e hele 'ia ai, i mea e lawa ai ko lākou ho'ohana 'ia 'ana ma lekiō  $V/C \text{ lekiō} \leq 1.0$ .
5. E kālai mua i nā 'ano like 'ole e waele ai i nā huina alanui ma:
  - a. Ke Ala Papalina me ka Alaloa Kaumuali'i i Kalāheo, me;
  - b. Ke Ala Maluhia me ke Ala Kōloa i Kōloa.

No kēia kālai 'ana i ka pa'a alanui i 'ike 'ia me kona nui i wānana 'ia, ma kekahi paukū alanui, e ho'ohālikelike 'ia ia mau helu me ka nui e hiki ai iā ia, i 'ike 'ia ai ka  $V/C$  lekiō. Ho'ohana 'o Fehr & Peers i ka  $V/C$  lekiō puka lā no kēia palapala, no ka mea ho'ohana 'ia nō ia no ka loiloi 'ana i ka hana nui e ho'ohana 'ia ai ia alanui no ka ho'olālā 'ana no ka wā lō'ihi e hiki mai ana, e like me ka palapala kaulona o ka CH2MHill. 'O ka hahai 'ana na'e i ka hana me kēlā, 'a'ole paha ia kohu pono no ka loiloi 'ana i nā 'ano huina alanui kū ho'okahi, no ka mea, ua pono kēlā i ka ho'ohana 'ana i nā 'ike makali'i no ka ho'ohana 'ia 'ana o nā alanui ma nā hola e nui loa ai ko lākou hele 'ia.

Ma ko lākou kālailai 'ana, ua 'ike 'o Fehr & Peers mā i nā 'ano e ho'ohana 'ia nei nā alanui, ua like a ma lalo iki paha o ka nui loa e hiki ai. Eia na'e, 'o ka mahu'i 'ana i ka pa'a alanui, me ka nānā 'ole i ka ulu 'ana o kama'aina e like me ka nui i wānana 'ia e ka SMS no 2035, hō'iike 'ia ka nui 'ino o nā paukū 'ekolu o ke Alaloa Kaumuali'i, i luna o ka nui loa e piha'ū ai lākou, ma waena o Kalāheo me 'Ōma'o (Pākaukau 4-1).

Pākaukau 4-1: Ka Wānana 'ana o ka Pa'a Alanui me ka Nānā 'ole i ka Ulu 'ana o Kama'aina 2035

Alanui	Wahi	Nui	Nui loa e hiki ai	$V/C$ Lekīō
<b>Alaloa Kaumuali'i</b>	Ma ke komohana o ke Ala Papalina	21,600	19,800	1.09
<b>Alaloa Kaumuali'i</b>	Ma waena o ke Ala Papalina me ke Ala Kōloa	22,200	19,900	1.12
<b>Alaloa Kaumuali'i</b>	Ma waena o ke Ala Kōloa me ke Ala 'Ōma'o	21,400	19,800	1.08
<b>Alaloa Kaumuali'i</b>	Ma ka hikina o ke Ala 'Ōma'o	21,800	24,800	0.88
<b>Ala Maluhia</b>	Ma ka 'ākau o ke Ala Kinoiki	18,200	24,800	0.73
<b>Ala Kinoiki</b>	Ma ka hikina o ke Ala Maluhia	7,200	16,800	0.43
<b>Ala Kinoiki</b>	Ma ka 'ākau o ke Ala Po'ipū	11,100	16,200	0.69
<b>Ala Papalina</b>	Ma ka hema o ke Alaloa Kaumuali'i	3,100	15,800	0.20
<b>Ala Kōloa</b>	Ma ka hema o ke Alaloa Kaumuali'i	13,000	19,000	0.68

<b>Ala Kōloa</b>	Ma ka ākau o ke Ala Po'ipū	9,500	22,200	0.43
<b>Ala Po'ipū</b>	Ma ka hema o ke Ala Kōloa	7,000	19,000	0.37
<b>Ala Po'ipū</b>	Ma ke komohana o ke Ala Kinoiki	11,500	15,800	0.73
<b>'Ike Kāpili: Hō'iike 'ia nā 'ike hemahema e ke kikokikona mānoanoa</b>				
<b>Kumu 'Ike: Pākaukau 6-1 (Fehr &amp; Peers 2014) me ko Kauai 2035 Palapala e Wānana 'ia ai ka Ne'ene'e 'Ohua (TDFM).</b>				

I ka ho'ohui pū 'ia o ka helu SMS i wānana 'ia no ka ulu 'ana o kama'aina me ka hana alaka'i no ka pa'a alanui no 2035, ho'ohana 'ia nā paukū 'ekolu like nō ma luna o ka nui loa e piha'ū ai lākou, ma nā V/C lēkio i nui iki a'e. 'O nā paukū i koe, ma lalo loa lākou o nui loa e piha'ū ai, koe na'e ka paukū e 'ane'ane ho'opiha nei i kona nui loa e hiki ai (V/C lekiō = 0.94). 'Ike iā Pākaukau 4-2.

#### Pākaukau 4-2: Ka Wānana 'ana o ka Pa'a Alanui me ka Nānā i ka Ulu 'ana o Kama'aina 2035

Alanui	Wahi	Nui	Nui loa e hiki ai	V/C Lekiō
<b>Alaloa Kaumuali'i</b>	Ma ke komohana o ke Ala Papalina	23,100	19,800	1.17
<b>Alaloa Kaumuali'i</b>	Ma waena o ke Ala Papalina me ke Ala Kōloa	23,500	19,900	1.18
<b>Alaloa Kaumuali'i</b>	Ma waena o ke Ala Kōloa me ke Ala 'Ōma'o	22,900	19,800	1.16
<b>Alaloa Kaumuali'i</b>	Ma ka hikina o ke Ala 'Ōma'o	23,400	24,800	0.94
<b>Ala Maluhia</b>	Ma ka ākau o ke Ala Kinoiki	21,000	24,800	0.85
<b>Ala Kinoiki</b>	Ma ka hikina o ke Ala Maluhia	7,200	16,800	0.43
<b>Ala Kinoiki</b>	Ma ka ākau o ke Ala Po'ipū	10,900	16,200	0.67
<b>Ala Papalina</b>	Ma ka hema o ke Alaloa Kaumuali'i	3,600	15,800	0.23
<b>Ala Kōloa</b>	Ma ka hema o ke Alaloa Kaumuali'i	14,200	19,000	0.75
<b>Ala Kōloa</b>	Ma ka ākau o ke Ala Po'ipū	10,400	22,200	0.47
<b>Ala Po'ipū</b>	Ma ka hema o ke Ala Kōloa	7,000	19,000	0.37
<b>Ala Po'ipū</b>	Ma ke komohana o ke Ala Kinoiki	12,000	15,800	0.76
<b>'Ike Kāpili: Hō'iike 'ia nā 'ike hemahema e ke kikokikona mānoanoa</b>				
<b>Kumu 'Ike: Fehr &amp; Peers, 2014</b>				

Ua 'ike nō ho'i 'o Fehr & Peers i nā ala ho'one'e ka'a i loko o Kauai Hema, e mau ana nō me ka lawa kūpono o ka ho'ohana 'ia 'ana, me ka ulu 'ana i wānana 'ia ho'i. Eia na'e, e mau ana ka nui o ka pa'a alanui ma luna o ka nui loa e piha'ū ai. 'Oiai, 'o ke 'ano ma'a mau a ka po'e wilikī a ho'olālā ne'ene'e 'ohua, 'o ia ka ho'olō'ihi hou aku i ke alanui i lawa 'ole paha, 'ike 'o Fehr & Peers i nā 'ike lehulehu i pili i ka ne'ene'e 'ohua ma Kauai wale nō, ma ko lākou 'ano he hōailona no ka pō'aiapili. Penei ia mau 'ike:

- No ka ho'olaulā 'ana i mau paukū loa o ke Alaloa Kaumuali'i, pipi'i 'ino loa nō, a he mau hopena maika'i 'ole no nā wahi pili mai me ka 'aina pili mai.
- Nele kēia wahi i ka loa'a 'ole o nā pono lako e hele 'ia ai ma nā 'ano like 'ole; pēlā e koi 'ia ai kānaka e kalaiwa ka'a i loko na'e o ka makemake e hele wāwae, e holo paikikala, a kau paha i ke ka'a lawe 'ohua.
- 'O ka ho'olō'ihi alanui 'ana, 'ole paha ia e launa pono me nā hana i ho'olālā 'ānō 'ia iho nei no ka ne'ene'e 'ohua no ka wā lō'ihi.
- 'O ka loioli 'ana i ka nui loa e piha'ū ai nā alanui, 'ole ia nānā i nā waiwai e loa'a ma ka ho'oponopono 'ana, e la'a ho'i me ka waele 'ana i ala huli, a ala poepoe, ka ho'ohou 'ana i nā hōailona holo alanui, me nā mahele hana 'ē a'e i pili mai, no ko ho'ouini 'ana i ka nui loa e piha'ū ai nā huina alanui, 'o ia nā wahi e kū a kolo ai nā ka'a holo i ka huina alanui (Fehr & Peers 2014).

I ka pau 'ana, a laila, kālailai 'o Fehr & Peers i nā hopena o nā papahana ho'oponopono i ho'olālā 'ia, me nā kulekele no ka ne'ene'e 'ohua ma nā 'ano like 'ole, e ma'a mau ai ka holo ka'a 'ana a ho'ēmi ho'i i ka pa'a alanui. Ma ko lākou kālailai 'ana i ka ho'ololi 'ana i ke 'ano e hele ai, ua koho lākou i ka nui o nā ka'a, pono e ho'oholo 'ia aku ma kekahi alanui 'ē a'e, ma kahi o 1,800 holona ka'a o ka lā, no ka ho'ohana 'ana i kekahi mau 'ano like 'ole no ka holo 'ana ma ke alaloa. Ke komo mai nā helu ma'a mau pili i ka piha 'ana o ke ka'a i ke kanaka me ka huina nui o nā holona ka'a, he 2,000 paha ka nui o ka po'e na lākou e ho'ololi ke 'ano o ko lākou hele 'ana. Koho 'o Fehr & Peers i ke 70% o nā ka'a holo alanui ma ke alaloa ma Kalāheo, he ka'a mā'alo wale nō, hele ana ma waena o ka hulina Komohana me nā wahi o ka 'Āpana Ho'olālā. No laila, 'o ka hana nui mua loa, 'o ke kāko'o mau i kānaka e ho'ohuli i ko lākou 'ano e hele ai ma ka 'Āpana Ho'olālā, e kāko'o pū 'ia ka hele 'ana o loko, ma ka ho'oponopono 'ana i nā ale hele wāwae a holo paikikala ho'i.

Eia na'e, 'o ke kau ka'a 'ohua kekahi 'ano maika'i no ka ho'oholo i nā ka'a ma kekahi ala 'ē a'e, 'olelo a'o mai 'o Fehr & Peers, 'ole paha ia he mea e lawa ai ka hele 'ana o nā kānaka he 2,000 o ka lā. Malia paha o loa'a he "helu nui loa" e pau ai ka po'e e makemake ana e ho'oku'u i ko lākou ka'a pono'i, mea 'ole ke emi o ke kumu kū'ai kakolina, me ka ma'alahi paha o ke kau ka'a lawe 'ohua. No ke ho'ēmi 'ana i ka nui o nā ka'a holo ma ke Alaloa Kaumuali'i, e pono ke holo kekahi o ia mau ka'a ma nā alanui e ho'olilo 'ia no ka paikikala a po'e hele wāwae ho'i. Ma nā 'ike e ho'iike 'ia mai e ka Palapala Ana Mana'o Kaiāulu o 'Amelika (ACS) no 2012, 'ane'ane he 20% o nā holona a pau ma Kauai, ma ke ka'a nō ho'i ia, 'o ka wā hana na'e, ma lalo nō ia o nā minuke he 10. 'O kēia 'ano lō'ihi e hele ai, ua hiki nō ke holo 'ia ma ka wāwae a paikikala paha, inā loa'a nō nā ala kūpono. Ma ka waele 'ana i ia 'ano alahele, e emiaku nō paha nā ka'a e holo ma ke alanui. Ma ke kālailai 'ana i ka holo ka'a 'ana a ho'i mai ma ke Alaloa Kaumuali'i, a hiki i ka 10% paha o ka nui, ana nō ia ma loko, me ka 'ole o ka holo mamao 'ana. Inā 'o kēia mau hele 'ana i kahi kokoke wale mai ana nō ma kahi 'ē, 'ole ma ke Alaloa, emi ana nō paha ka nui o nā ka'a e kauoha 'ia e kēia Papahana Kaiāulu. (Fehr & Peers 2014)

No laila, ma ka waele 'ana i mau ala no ka hele 'ana ma nā 'ano like 'ole, pēlā paha e emi ai ka nui o nā ka'a i pono i ka holo 'ana ma ke Alaloa Kaumuali'i, 'o ia nā hana waele ala e ho'iike 'ia nei ma Ki'i 4.2, me ke kauoha 'ana i kekahi o nā ka'a ma nā alanui 'ē a'e. Ua hiki nō ke kauoha 'ia ma nā alanui 'ē a'e inā lawa nā ala i hiki ke hele 'ia ma nā 'ano like 'ole, a no kēia mea, e pono ke waele hou 'ia a lō'ihi aku 'o ia ma mua o kona lō'ihi e kū nei i kēia wā, ma ke ala hele mau 'ia ma waena o Kekaha me

Lihu'e (Fehr & Peers 2014) a me ka ho'oponopono 'ana i ka hana o nā ka'a lawelawe 'ōhua i ma'alahi ai no ka po'e kau i ia mau ka'a, ma ka ho'oponopono 'ana i ka manawa paha, a i 'ole i ko lākou mau wahi e ho'okū ai. 'A'ole paha maika'i loa ka mana'o o ka waele 'ana i mau ala hou, e like me ka ala ho'alo hele kapakai, a me a ho'olaulā 'ana i nā ala e waiho nei. Ma ka hana 'ana me kēlā, luhi auane'i ko Kalāheo Taona me Lāwa'i i ka hana lawelawe 'ana a lawa pono ka po'e ma ke komohana me ka hikina o ia mau kaiāulu. 'O ka po'e ho'i e lawa i kēia 'ano hana, inā hana 'ia me kēlā, 'o ka po'e wale nō i hiki ke kalaiwa, ka po'e ho'i e holo i ke alanui ma nā hola e nui 'ino ai nā ka'a e holo nei, 'oiai ho'i nā hopena maika'i 'ole (ke emi 'ana o nā kaiāulu ho'olauna), e waiho mau ana nō. Inā e koi 'ia ka waele 'ana i alanui mai ke komohana a ka hikina no nā ulia pōpilikia, e pono ke como ke Kalana a me ka DOT i ka hana pū 'ana me nā kānaka nona nā 'aina i kahi kokoke a'e i nā ala, e ho'olilo i ia ala aku ma nā alanui mahi'ai e kū nei, e pili pū ana me ke alaloa. 'O kekahi 'ano hana e koho ai, 'o ia ka ho'oponopono 'ana i nā ala e kū nei, e hele nei mai ka hikina a ke komohana, i ho'okāpili ai i kahi i kokoke a'e i nā taona e waiho nei me nā kaiāulu ho'i, i ho'ēmi ai ka nui o ka hele 'ia ma ia mau alanui mahi'ai, me nā 'aina kūkulu 'ole, me ka ho'ohilahila 'ana i ka ho'omāhuahua kaiahale ma kapakai ala.

#### 4.3.1.2.3 Nā Alanui Ho'onaninani

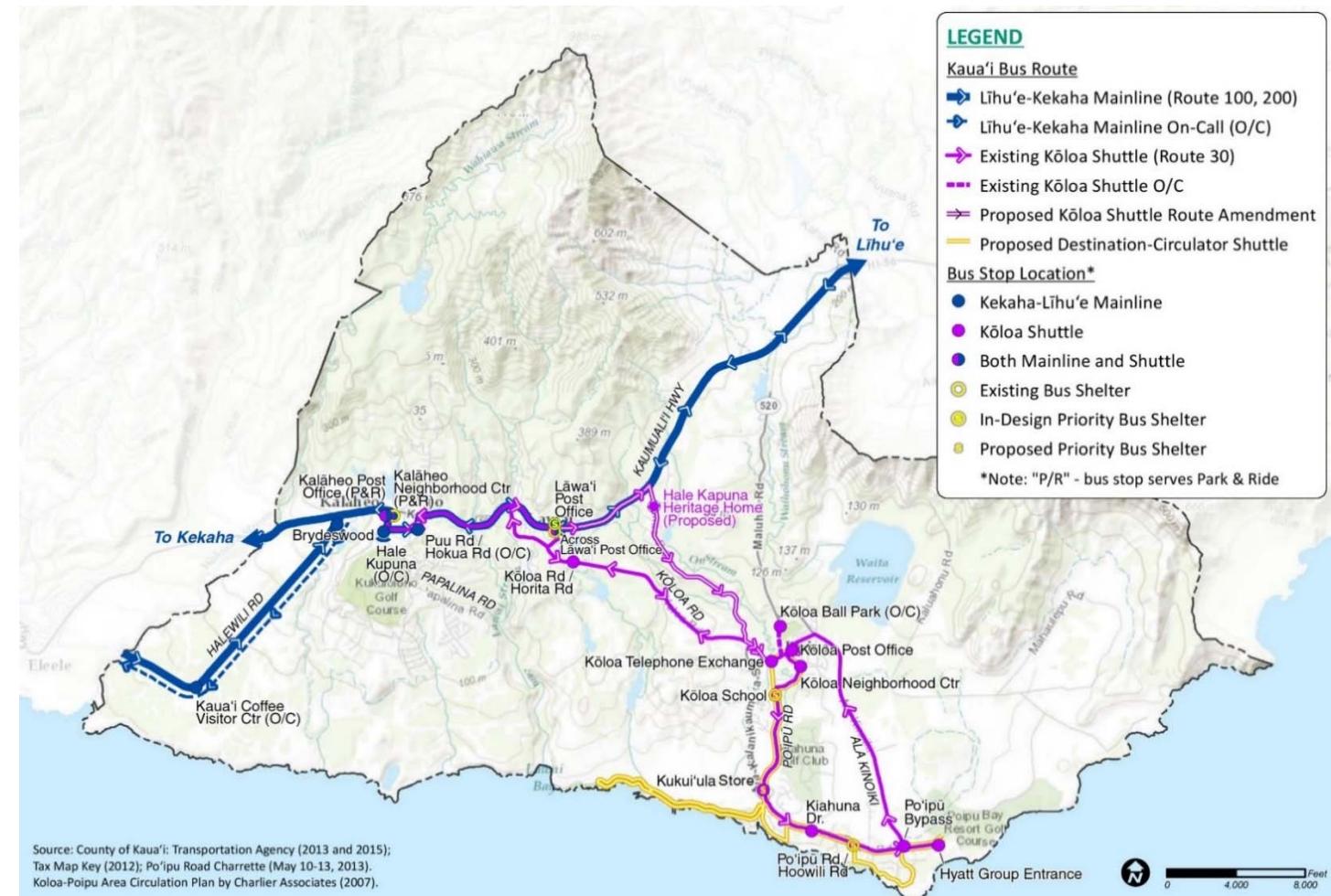
'O ka hana ma'a mau, ho'olilo 'ia ke alanui ho'onaninani ma nā wahi e puni ana i nā 'aina i ho'olilo 'ia ma ke 'ano he Mahi'ai a Ākea paha. Ma nā wahi e loa'a ai he alanui ho'onaninani ma ka taona, nāna paha e ho'okāpili ka taona me kekahi wahi pili mai no ka ho'ohana kiwikā 'ia, 'o ke kaomi 'ana i ke kūkulu hale kona pahuhopu, a 'o ka ho'onaninani 'aina me ka hō'ike 'ana i nā wahi pana māhiehie kona mea nui. E pono ho'i ke maliu aku i ka nui o nā wahi e como a ha'alele ai paha i ke alaloa. Ma ka ho'olālā kūpono loa 'ana e holo pono ai; inā kāpulu ka waele 'ana i ia mau ala puka, pilikia ka holo ma ke alaloa. Na ke Alanui Ho'onaninani e kū nei ma ke 'ano he la'ana no ke kūkulu hou 'ana me ka 'ole o ke kaupalena 'ana i nā 'ano e ho'ohana 'ia ai nā 'aina pili, ke ho'ohana 'ia lākou ma ke 'ano kiwikā.

#### 4.3.2 Ka Ne'ene'e 'Ōhua

Ma nā hola nui o ke kalaiwa 'ana ma ke alahele, holo piha pinepine nā ka'a 'ōhua a he mea ma'a mau iā ia ka hō'ole 'ana i nā 'ōhua 'oi 'āpu'epu'e ke como 'ana. I mea e ho'oponopono i ia pilikia, ma ka lā 17 o Malaki i 2014, ua waele 'ia he ala hele ka'a 'ōhua hou (#150) e ke Ke'ena Ne'e 'Ōhua mai Kaumakani a Lihu'e. 'Elua holona i kakahiaka, 'elua ho'i ma ka 'auinalā i mea e nā ai ka piha'ū i hō'ole 'ia ai kekahi mau kānaka ma ke Kikowaena Kūlanakauhale o Kalāheo ma ke kakahiaka. E ho'ololi 'ia ana paha ka holona (#150) 'auinalā e ho'omaka ma Waimea ma kahi o Kaumakani no ka mea 'o nā haumāna kula ki'eki'e o Waimea nā 'ōhua kau nui ma ka Mākeke Ishihara i Waimea ma ka 'auinalā. Ke ho'olālā pū nei ke Ke'ena Ne'e 'Ōhua o Kaua'i e kū'ai i mau ka'a 'ōhua nui aku me nā noho he 35-40 i nā makahiki e hiki koke mai ana no ke ala ka'a 'ōhua holo nui. I ho'okūkū ia i nā ka'a 'ōhua o kēia manawa me nā noho he 29-33. (Ke'ena Ne'e 'Ōhua Kaua'i 2014)

'O nā mana'o o ka lehulehu no ka ne'ene'e 'ōhua, i hō'ili'ilii 'ia ma nā hālāwai a kākau 'ia ma ka pepa. Ua hō'ike 'ia nō nā hopohopo nui. 'O ia ho'i ka hana pono me ka ho'omāhuahua (62%) a me ka ho'oponopono 'ana i nā pono lako (29%). 'O kēia mau ho'oponopono kumu nā pahuhopu o nā ho'oponopono i noi 'ia. Makemake nui 'ia ka ho'omāhuahua 'ana e ka lehulehu. 'O ka ho'okumu 'ana i kūna ka'a 'ōhua ma ke ala 'Ōma'o ke po'omanā'o ma 'ehā o kēia mau kūkākūkā he 'umikūmākolu. 'O ka ho'oholo akula nō ia i nā ka'a 'ōhua i ho'okā'oi 'ia e holo ana mai Kōloa a nā kahakai o Po'ipū.

Ki'i 4-4: Nā Ala Ka'a 'Ōhua I Noi 'Ta a me Nā Wahi Ho'omalu Kūna Ka'a 'Ōhua Ko'iko'i



Na ka ho'oponopono 'ana i nā pono lako ke kūlana ma lalo iki mai. 'O ke kūkulu 'ana i nā wahi ho'omalu hou aku ka makemake o 83% o nā mana'o. Mai 'Apelila i 2015 mai, aia nō he 'elua wahi ho'omalu kūna ka'a 'ōhua – aia kekahi ma kekahi 'ao'ao o ke alaloa mai ka Hale Leka o Lāwa'i, a aia kekahi ma ke Kikowaena Kūlanakauhale o Kalāheo, 'o ia ho'i ke kahua e ho'okū ka'a ai a kau ka'a 'ōhua ai (kahia ho'okahi i ho'okohu 'ia me kēlā ma Kaua'i Hema) a he wahi ho'ololi ka'a ho'i no ke ala ka'a 'ōhua nui a me nā ala lī'lī'i. E ho'onoho ana nō ho'i ke Ke'ena Ne'e 'Ōhua o Ke Kalana o Kaua'i i mau haka paikikala a kini 'ōpala ho'i ma kekahi 'ao'ao o ke alaloa mai ka Hale Leka o Lāwa'i. Ke mahu'i nei ho'i lākou e ho'oholo i ka Mahele Hana II o ke kūkulu 'ana i nā wahi ho'omalu i nā mahina mua o 2016. 'O nā wahi kūna ka'a 'ōhua o ka Mahele Hana II, 'o ia ho'i ka Hale Leka o Lāwa'i, ke Kula o Kōloa, a me ka huina alanui o Po'ipū me Ho'owili. Ke ho'opā'a nei nō ke Ke'ena Ne'e 'Ōhua i kekahi palapala no ka ho'oholo 'ana a me ka ho'oka'ina pono 'ana i nā ho'omalu kūna ka'a 'ōhua hou aku no ka mokupuni ho'oko'a. Ma kēia ka'ina hana, ua ho'okohu 'ia kēia mau kūna he mau e pono ai kēia mau wahi ho'omalu: ka Hale Kū'ai o Kukui'ula ('elua ana kūna ma laila) a me ke alanui Kiahuna.

E lawa ai nā pono o ke kaiāulu, noi 'ia kēia mau ho'ololi 'ana no ka holo ka'a 'ōhua o Kaua'i a aia nō ma Ki'i 4-4.

- Ala Ka'a 'Ōhua Kekaha-Lihu'e:** E ho'ouui paha i ke ka'a 'ōhua a ho'ouui paha i ka pinepine o ka holo 'ana o nā ka'a ma nā hola e nui ai ka hele 'ia i mea e nui ai ka hiki ke lawe 'ia kānaka a 'olu'olu a'e ho'i ka holo 'ana me ka nui o ka po'e kau ka'a 'ōhua. Ma ke 'ano he helu koho, i mea e ho'olilo ai he 50% a helena paha o nā kānaka he 1,000 ma nā hola e hele nui 'ia ma ke kakahiaka a 'auinalā ho'i, 'umikūmāhā a 'umikūmālima paha ka'a 'ōhua kau kanalima hou

aku ma ka pihaku'i. 'O ia ho'i ka nui loa o nā kānaka e noho a e kū ana ma ke ka'a 'ōhua. Inā e holo nā ka'a 'ōhua no nā helena he 'elua hola ka lō'ihi (kekahi ma ke kakahiaka a kekahi ma ka 'auinalā), e pono ana ho'i he ka'a 'ōhua e holo aku a holo mai i kēlā me kēia 30 minuke. No ka ho'olilo 'ana he 70% a helena paha o nā kānaka he 1,400, 'o ia ka nui o ka po'e māalo wale, e pono ana he iwakālua ka'a 'ōhua kau kanalima hou aku ma ka pihaku'i. E ho'olō'ihi 'ia paha i nā holo e holo ai kēia mau ka'a a ho'opōkole 'ia paha nā minuke ma waena o nā ka'a a he 20 wale nō minuke, aia nō i ka mea e pono ai.

- **Ka'a 'Ōhua Kōloa:** E ho'ololi i ka paukū holo hema o kēia ala mai ke Alanui Kōloa a i ke Alanui 'Ōma'o a kū ma Hale Kapuna Heritage Home, kahi e mālama 'ia ai ka po'e kūpuna, ma 'Ōma'o. E ho'okō ana kēia i ke noi o ko 'Ōma'o a me ka ho'opili 'ana iā Kōloa, Po'ipū, Kalāheo, a me Lāwa'i. He 0.3 wale nō mile kēia ho'olō'ihi 'ana mai ka mea e kū nei. He kūna ka'a 'ōhua ho'i ia wahi i noi 'ia no ke kula. He mea kēia wahi ho'okū ka'a 'ōhua me kēia wahi ho'omalu kūna ka'a 'ōhua no nā kānaka he nui. Ho'onui i ka pinepine o ka holo 'ana i mea 'olu'olu no nā limahana. E mana'o paha e kūkulu 'ia he kūna ma ka Hale Kū'ai 'o Lāwa'i General ma ke Alanui Kōloa no kēia mau wahi hana a me nā SPA e hiki mai ana.
- **Ka'a 'Ōhua Po'ipū-Kōloa:** Hana pū me PBRA no ka ho'olō'ihi a ho'omāhuahua 'ana i ka holo 'ana o ke ka'a 'ōhua e holo ana i loko wale nō o Po'ipū i helena o kēlā me kēia lā a ho'onooho i kūna ma Kōloa Taona no nā malihini me nā kama'āina pū. Ho'oponopono i nā hola hana i mea e ho'onui ai i nā mea kau ka'a 'ōhua e ho'omaika'i a'e ho'i i ka ho'olilo kālā.

#### 4.3.3 Ka Ho'okū Ka'a 'Ana

No ka ho'okū ka'a 'ana o ka lehulehu, Hō'ike 'ia ma nā palapala ho'olālā i hō'ike 'ia ma ka Mokuna 4.3.4 nā wahi ho'okū ka'a i loa'a ma ka'e alanui i mea e kōkua ai i nā kahua ho'okū ka'a e kū nei a i mea ho'i e ho'oponopono ai i ka waiho 'ana o nā ka'a, i pale ho'i no nā kānaka holo wāwae ma waena o nā ka'a holo alanui a me ke ala hele wāwae. Aia nō i loko o ka hihi'o GP no Kōloa i ho'ohou 'ia i 2000 nā wahi ho'okū ka'a lehulehu ma kahi ka'e a kahi ka'e o ke taona, i hiki ho'i paha ke ho'ohui 'ia me nā mea ho'okuleana 'aina a me nā 'oihana. Hiki ke ana 'ia ka ho'okū ka'a 'ana ma Kōloa e nānā pono ai i ka helu maoli o nā kāmala ho'okū ka'a e kū nei a me ka nui e pono ai nā 'oihana a me nā kama'āina o ke taona. E hiki ana paha ke komo pū i kēia hana me nā pā'oihana hou e like me Kōloa Rum a me ka Knudsen Trust i ho'olako aku ai i nā wahi ho'okū ka'a i loko o ko lākou mau hanana.

Eia ho'i he mana'o hou, 'o ke kāki 'ana no ka ho'okū ka'a 'ana, ma nā kahua uku a me nā kāmala ka'a ma ka'e alanui i mea e paipai 'ia ai kānaka e kau pū kekahi me kekahi, e hele wāwae, a e holo paikikala paha. 'O ka loa'a mai kēia mau wahi ho'okū ka'a, e ho'olilo 'ia paha ia no ka ho'onooho me ka mālama 'ana i ia mau noi.

#### 4.3.4 Ka Ho'omana'o No Ka Ho'oponopono Huina Alanui a Paukū Alanui

Ho'oka'ina 'ia kēia mau ho'omana'o no ka ho'oponopono 'ana i nā huina alanui a paukū alanui ho'i ma nā kaiāulu a helu 'ia ma ke 'ano he kuhina no nā wahi ma nā palapala 'aina no Kōloa, Kalāheo, a me Po'ipū. I loko o ko lākou 'ano he mea ma ka no'ono'o, he mau koho paha ko kekahi mau paukū alanui, e ho'oholo ana ma nā ala like 'ole i hiki ke ho'omaika'i 'ia ma ka wā ho'olālā. Ua ho'āo nui ma nā 'ano a pau e mālama mau i nā pono alanui i mea e li'ilī'i loa ai nā pilikia ma nā wahi pili mai. Ma nā 'aina e pono i nā wahi hou, e mana'o 'ia ana kēia mau ho'oponopono i mau mea no nā kānaka hele wāwae a he ala kā'ana paha.

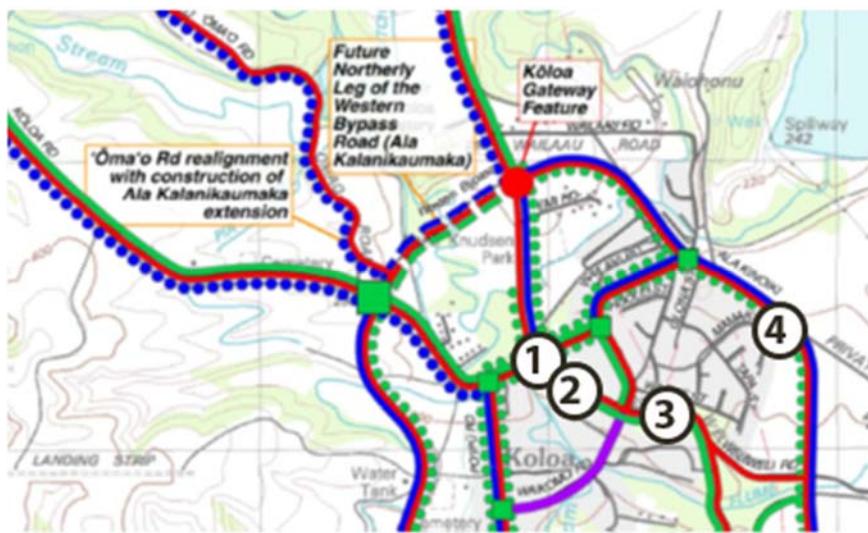
##### 4.3.4.1 Kōloa

Kaulona 'ia nā ho'omana'o no ka ho'oponopono 'ana i ka waiho 'ana o ke alanui i ka ho'oponopono 'ana i kahi o ka mea hele wāwae i loko o kēia kikowaeka taona hele nui 'ia a me nā ala holo paikikala kūpono i ka taona a puni. Eia ho'i, Hō'ike mai ka 'ikepili hou mai ke Ke'ena Ho'ona'auao o ka Moku'āina o Hawai'i (DOE), he 80% a 'oi ka nui o nā haumāna e noho ana

ho'okahi mile a kokoke aku paha i ke kula, wahi a ka palapala ana mana'o makua ma Nowemapa i 2012. A no ka po'e e noho kokoke ana i ke kula me ka 'ae 'ole 'ana i kā ia ala keiki e hele wāwae a holo paikikala aku paha i laila, eia ho'i nā kumu nui: 1) nele i nā ala hele wāwae palekana (65%), 2) ka nui o nā ka'a ma ia ala (62), a me ka 'āwiwī o nā ka'a (62%) (Kalana o Kaua'i 2013). 'Upu hou a'e kēia mana'o no ka ho'oponopono 'ana i nā ala hele wāwae a me nā ala holo paikikala i loko o nā palapala ana mana'o kaiāulu i hō'ili'ili 'ia ma ka ho'omaka 'ana o ka papahana CP o Kaua'i Hema.

'Elua alanui i ho'ohana nui 'ia ma Kōloa e ho'olālā 'ia nei ma nā papahana 'ē a'e. Ke ho'olālā hou 'ia nei ke Alanui Waikomo e ke Kalana me nā mana'o like 'ole, mai nā ala 'ololi i ho'oka'awale 'ia mai ke ala hele wāwae a holo paikikala paha a i ke ala holo kahi. Pau nā ho'oponopono 'ana o ke Alanui Po'ipū i ka ho'olālā 'ia mai ke Alanui Kōloa a i ka Hyatt a pa'a ho'i ke kumu kū'ai i mahu'i 'ia ma ka STIP. Ma muli o nā ho'olālā 'ana i ho'opa'a 'ia ma ka 'Aha Ho'oponopono o ke Kalana o Kaua'i no ke Alanui Po'ipū ma Mei i 2013. 'O Ki'i 4-5 ka palapala 'aina no nā ho'oponopono alanui a huina alanui ho'i ma Kōloa.

##### Ki'i 4-5: Palapala 'Āina o Kōloa



**Ke Alanui Kōloa (1).** ‘O ka huina alanui o Kōloa me Maluhia ka ‘ōnohi ‘o Kōloa Taona. Pēlā nō kona ‘ike ‘ia ‘ana no kona mau hale kū’ai i kū i ka wā mahi kō, pau pū me nā ala hele wāwae ho‘omalu ‘ia, a me nā alanui pa‘apū i kānaka. Eia na‘e, ‘aohe wahi ala hele wāwae holo mau loa a he ‘elua wale nō ala hele wāwae me ka hōailona no ka ‘a‘e ‘ana i kekahi ‘ao‘ao o ke alanui – kekahi e holo pololei ana i ke kahua ho‘okū ka‘a o Sueoka a me ka mea hikina loa ma kahi o ka Hale leka. He holo kīke‘eke‘e ko kānaka ma kēlā me kēia ‘ao‘ao o nā ka‘a kū i ke alanui a me nā ka‘a holo i ke alanui a hiki aku i nā wahi like ‘ole ma ke Ala Kōloa. Inā ho‘i e ua, ki‘o wale ka wai, he mea e ho‘okikina ‘ia ai kānaka e holo i loko o ke ala holo ka‘a. Ho‘onui wale ‘ia ka‘e alanui me nā pou hō‘ālai ka‘a no ke kū ‘ana o kānaka. Eia na‘e, hiki ke ho‘onui ‘ia ka ho‘oponopono ‘ana no ka holo maluhia ‘ana o kānaka ma ka taona Kōloa.

**Ki‘i 4-6: Ka Nūnē ‘ana no ka Ho‘oponopono i ke ‘ano e Waiho ai ke Alanui ma Kōloa Taona, Koho 1**

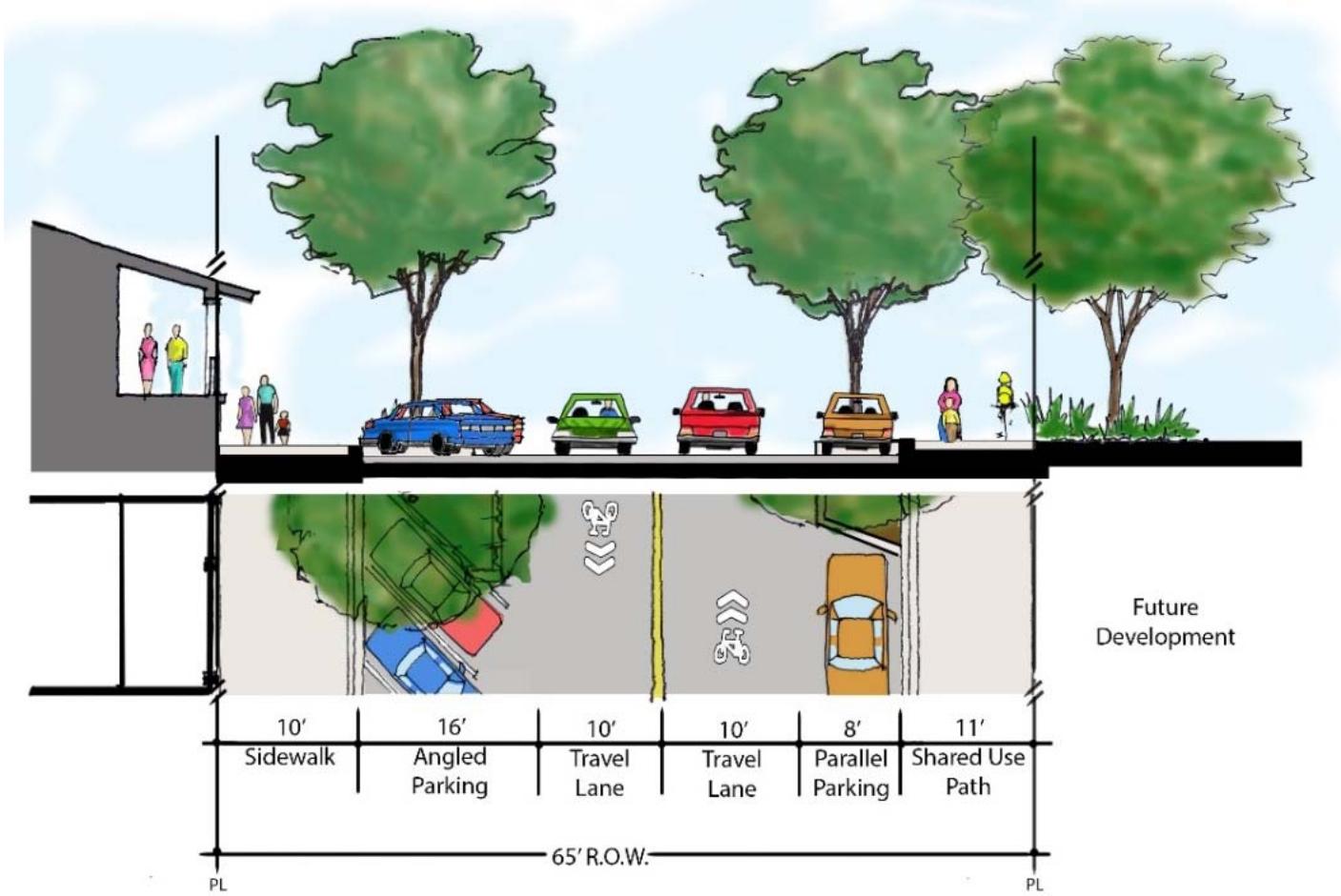


**Ki‘i 4-7: : Ka Nūnē ‘ana no ka Ho‘oponopono i ke ‘ano e Waiho ai ke Alanui ma Kōloa Taona, Koho 2**



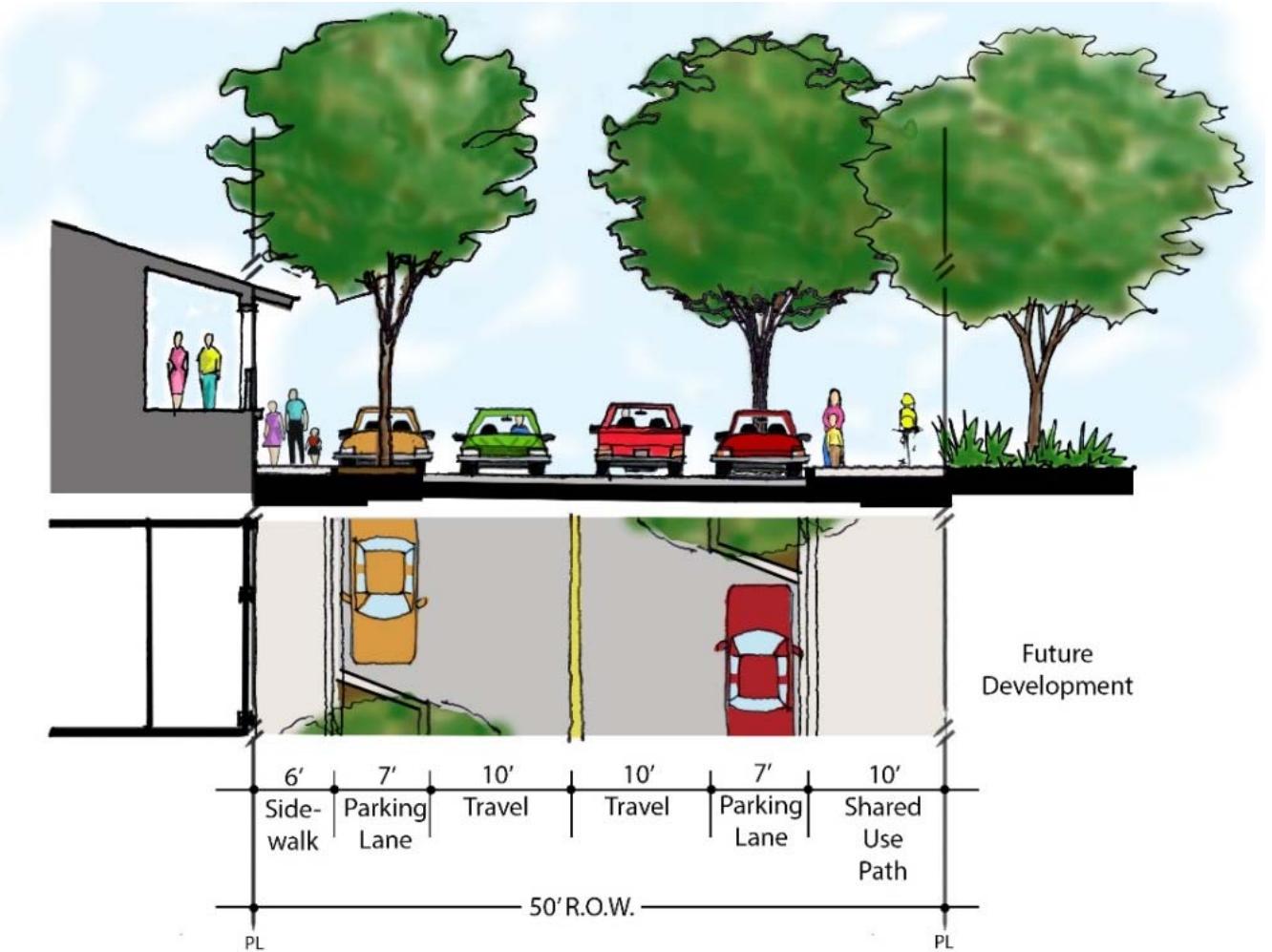
‘O Ki‘i 4-6 me 4-7, he lā‘ana ho‘i lāua no nā mea i hiki ke hana ‘ia me ka mālama ‘ana i ka pono alanui (ROW) me kahi ala hele wāwae ho‘olaulā ‘ia a holo mau ma kai o ke alanui, he ala kā‘ana ho‘i ma uka, he mau kāmala ho‘okū ka‘a ma ke alanui, me nā ho‘onaninani mālama ‘aina e ho‘olalau ana i ka wai ua. He 65 kapua‘i ka lō‘ihī o ka ROW ma ke Alanui Kōloa i ka hema o ka huina Maluhia, he mea e ‘olu‘olu ai ke ka‘ana ‘ia o ke ala, nā ala hele wāwae me nā kāmala ho‘okū pololei me ke keke‘e. ‘O ka mea nui ho‘i e ‘oko‘a ai nā palapala ho‘olālā ‘elua, ‘o ia ho‘i ka ho‘onoho ‘ana i nā kāmala ho‘okū ka‘a ma mua o ko Sueoka. ‘Aohe ia ma ke Koho 1 no ka holo wale o nā ka‘a ‘oiai ia ma ka hopena o ke Alanui Maluhia. Ho‘onui ‘ia ho‘i ‘o ka‘e alanui i lawa ai no kānaka me nā noho, mea ho‘onani, me ka hōailona no ka Taona Kōloa. ‘O nā kāmala ho‘okū ka‘a keke‘e ma ke Alanui Kōloa, he mau kāmala ho‘okū peki ma ia kohō. Ma ke Koho 2, ho‘onui ‘ia nā kāmala ho‘okū keke‘e a hiki i Sueoka i mea e lawa ai nā wahi ho‘okū ka‘a he mau kāmala ho‘okū mua ho‘i ia no ka maluhia o ka huina-T. Ua kū‘ē ho‘i nā wilikī o ke Ke‘ena, i kāko‘o ho‘i i ka pono o ke Koho 1, a me ka DPW o ke Kalana, e mana‘o ana i ka i ka holo lohi ‘ana e lawa ai nā kāmala i mua o ko Sueoka. Ma nā kohō ‘elua ho‘i, holo pū nā paikikala ma ke Alanui Kōloa ma o nā ala holo paikikala. ‘Ike iā Ki‘i 4-8.

Ki'i 4-8: Ke Alanui Kōloa me Nā Kāmala Ho'okū Keke'e a Kaulike Ho'i (Palapala 'Āina Kōloa 1)



Ma kahi e hāiki ai ke Alanui Kōloa a he ROW 50 kapua'i, E mālama 'ia ke ala kā'ana ma uka o ke alanui, a ho'ohāiki 'ia na'e ma kai a ho'onoho 'ia nā kāmala kaulike wale nō me nā kumu lā'au ma nā wahi ho'onani mālama 'āina (Ki'i 4-9).

Ki'i 4-9: Ke Alanui Kōloa me Nā Kāmala Ho'okū Kaulike (Palapala 'Āina Kōloa 1)



'Ike 'ia he lā'ana o kēia 'ano ho'oponopono 'ana no nā kānaka a me ka mālama 'āina ma Ki'i 4-29 a me Ki'i 4-30 mai ka mokupuni Bainbridge ma kahi o Seattle ma Wakinekona. No ke Ala Kōloa, e ho'onoho nō paha i nā lā'au 'ōiwi a me nā mea ho'onani alanui i mea e nani hou a'e ai nā hale kahiko e kū nei.

**Ala Weliweli i ka Hiki 'ana i Kōloa Taona (2).** No ke Alanui Weliweli ma ka 'ao'ao hema iki o ke Alanui Kōloa, Aia nō he 'elua paukū alanui e koho ai – kekahi me ke ala hele wāwae he 'eono kapua'i ka lō'ihi, he ala kā'ana he 10 kapua'i ka lō'ihi no nā mea hele wāwae a holo paikikala ho'i, a he paukū ho'onaninani, 'ehā kapua'i ka lō'ihi. 'O kekahi paukū alanui me nā ala hele wāwae, nā kāmala ho'okū kaulike ma kekahi 'ao'ao, a holo pū nā ka'a a me nā paikikala ma ke ala like. 'Ike iā Ki'i 4-10 me 4-11. He ala ho'opili ke Koho 1 i ke Alanui Weliweli i ke kokoke 'ana ona i ke Ala Hapa. 'O ka mea 'apiki na'e, 'aohe wahi ho'okū ka'a ma ka'e alanui.

*Ka Ho'okāpili o ke Ala Weliweli me Ala Hapa* (3). ‘O ka manaō no ka paukū a'e ma ke Alanui Weliweli ma waena o ke Alahele Waikomo a me ke Ala Hapa e ho'olako i ala kā'ana a ala hele wāwae ho'i ma ke 'ano he mau ala mā'alo ma ka 'aina pili mai i kūkulu 'ole 'ia (Ki'i 4-12). He mea ia e ho'opili ai i ke Ala Hapa, kahi e hele wāwae/paikikala wale ai me ka Taona Kōloa e hō'ūlolahī ai nā mea holo paikikala me ka maka'ala i nā ka'a a me nā mea hele wāwae. ‘O nā kumu lā'au ma ka'e alanui, nā māla ho'onaninani, a me nā kāmala ho'okū ka'a ma ka'e alanui, he mau pale ia ma waena o nā ka'a e holo ana me ke ala 'ōlolī holo paikikala a me ke ala hele wāwae e waiho ana ma mua o kaiahale hou.

Ki'i 4-10: Ka Hiki 'ana i ke Ala Kōloa ma ke Ala Weliweli (Koho 1, Palapala 'Āina Kōloa 2)



Ki'i 4-11: Ka Hiki 'ana i ke Ala Kōloa ma ke Ala Weliweli (Koho 2, Palapala 'Āina Kōloa 2)

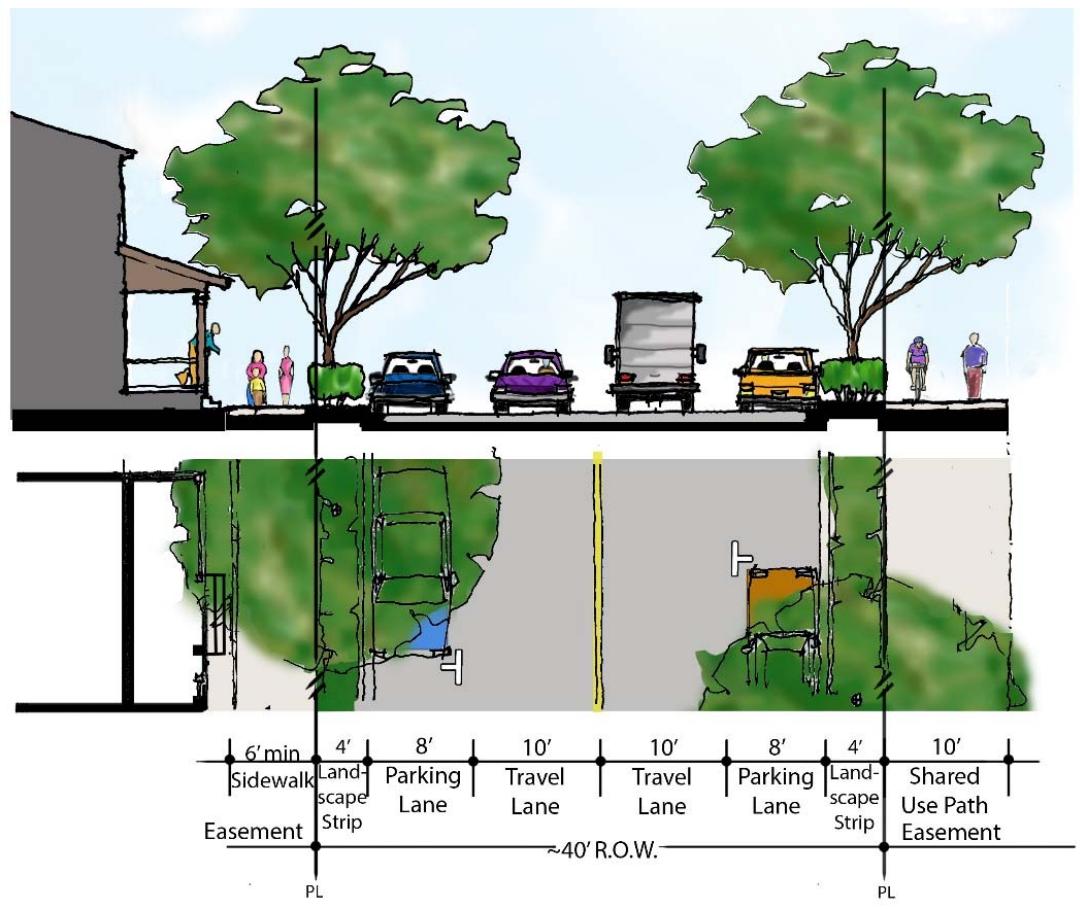


Inā a'ole e 'imi 'ia nā ala ka'ana ma nā 'aina ho'okuleana 'ia, 'o ia ho'i 'o Koho 1 a 2 paha o ke Ala Weliweli e pili ana i ke Ala Kōloa, 'o ka mea i kohō 'ia, hiki nō ke ho'omau 'ia ma kēia paukū alanui.

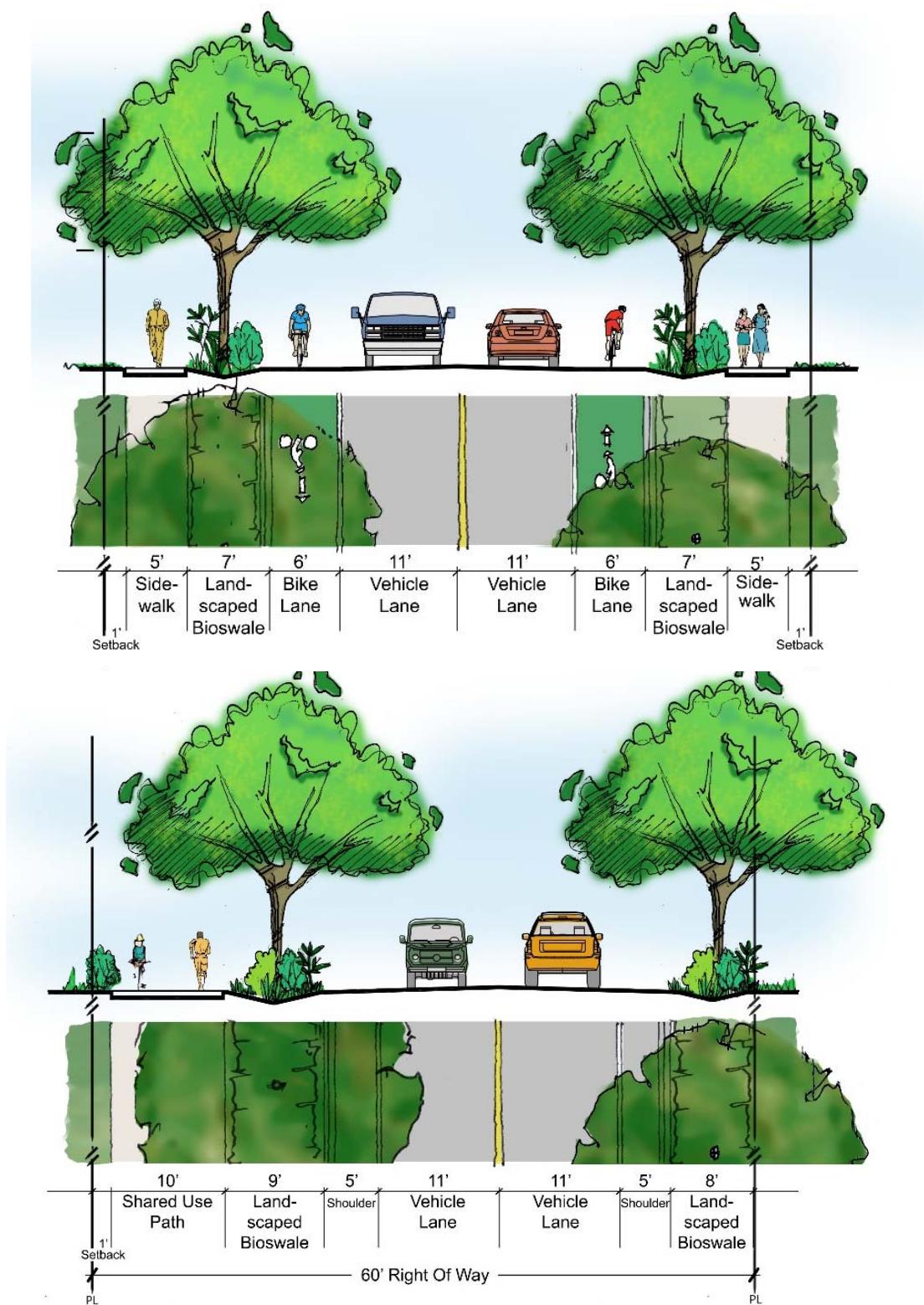
**Ala Kinoiki (4).** Aia he 'elua mana'o hou aku e mana'o 'ia nei no ke Ala Kinoiki me kona ROW he 60 kapua'i – kekahi i kūkulu pū 'ia me nā ala holo paikikala a me ke ala hele wāwae he 'elima kapua'i ma kēla me kēia ka'e o ke alanui. 'O kekahi

mana'o ho'i, he ala ka'ana ka'awale kona, he 'umi kapua'i, no nā mea holo wāwae a paikikaa ho'i me ke ala ho'oka'awale he 'elima kapua'i ma ka'e alanui i holo ai paha nā paikikala holo loa. 'Ike iā Ki'i 4-13. Aia nō ma nā kohō 'elua he mau mea ho'oonaninani mālama 'āina a me nā kumu lā'au mōhalu ākea i mea e holo pono ai ka wai a ho'omalu ai ho'i ma kēia ala ho'opili. Makemake 'ia nā lā'au 'ōiwi 'oiai kapa 'ia kēia ala 'o Ala Kinoiki ma ka inoa hanohano o ka makuahine o ke Kamāli'i Jonah Kūhiō Kalaniana'ole, 'o Ke Kamāli'i Wahine Victoria Kūhiō Kinoiki Kekaulike. 'O ke kaikamahine ho'i ia o ka mō'i hope loa o Kaua'i, o Kaumuali'i, me ke kaikuahine o ka Mō'i wahine Kapi'olani.

Ki'u 4-12: Ke Ala Ho'okāpili i ke Ala Weliweli me Ala Hapa (Palapala 'Āina Kōloa 3)



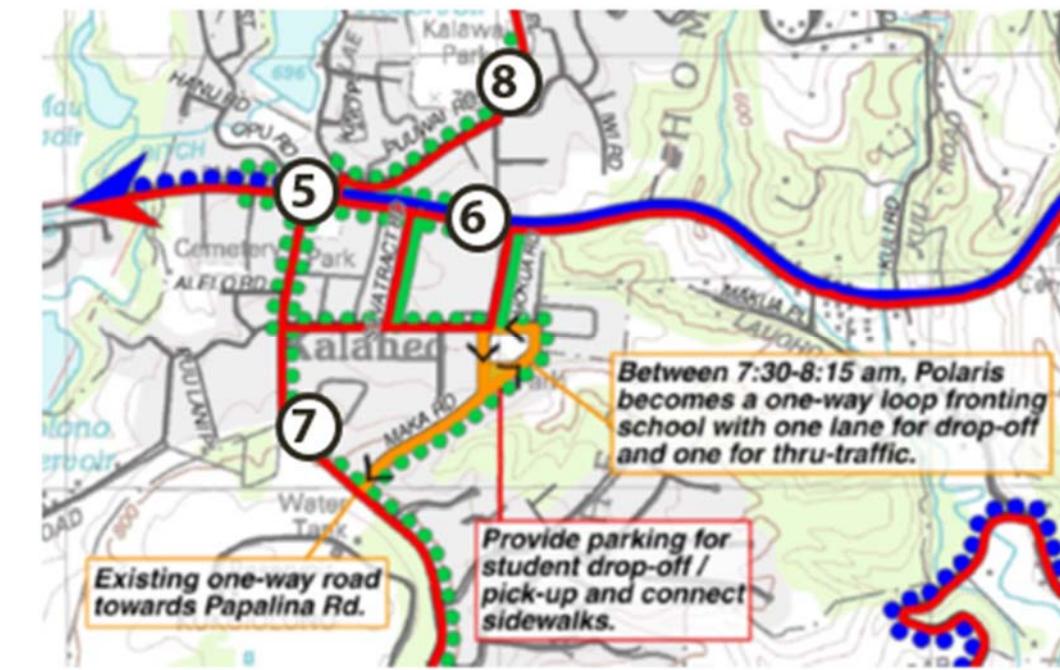
Ki'i 4-13: Nā Koho 'e a'e no ke Ala Kinoiki (Palapala 'Āina Kōloa 4)



#### 4.3.4.2 Kalāheo

No Kalāheo, he mana'o ho'i kēia mau noi ho'oponopono e ho'oponopono i kahi o nā kānaka hele wāwae, kaulona 'ia ho'i ma ka huina alanui Papalina me Kaumuali'i, ma e alaloa e holo ana i mua o nā 'ohana a me ke Kikowaena Kūlanakauhale o Kalāheo, a ma ke Alanui Pu'u'uwai e komo ana i ka Pāka Kalawai. He mau koho 'oko'a ho'i no nā pono paikikala.

Ki'i 4-14: Palapala 'Āina Kalāheo



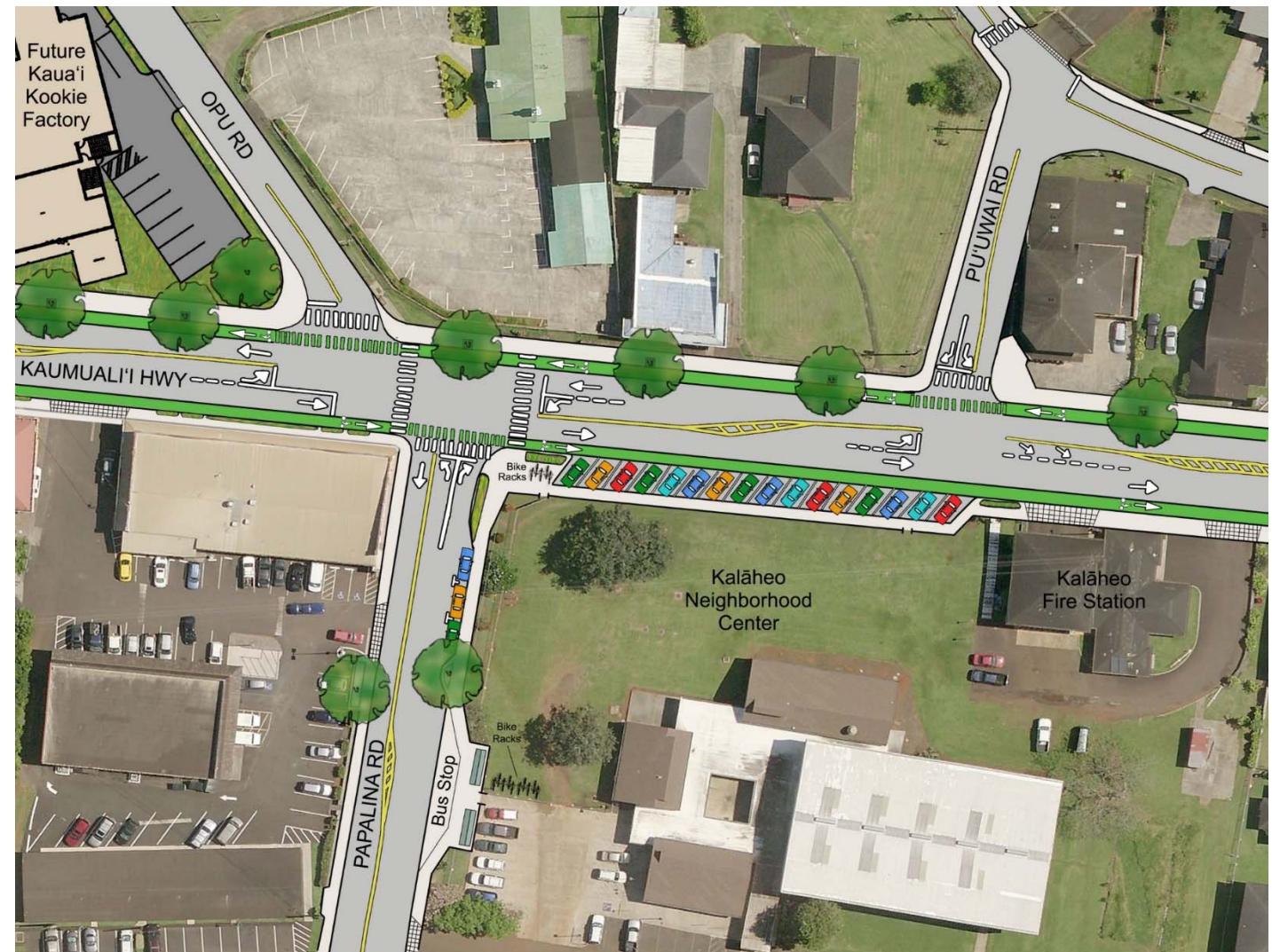
**Alanui Papalina/Alaloa Kaumuali'i/Alanui 'Ōpū (5).** Hō'ike 'ia he ki'i no ka mana'o no ka paukū o ke Alaloa Kaumuali'i ma waena o nā alanui 'Ōpū a me Pu'u'uwai e 'ike 'ia ma Ki'i 4-15. Ho'olālā 'ia kekahi mau mana'o ma ka hālāwai ho'olālā o Kepakemapa i 2013 e like me ke ala poepoe, he ala poepoe holo lua, a me ke ala poepoe holo kapakahi. Eia na'e, a nānā 'ia mai ia e Fehr & Peers, 'o ka mea kūpono ho'i ka mea e ho'oponopono 'ia ai nā wahi 'āehina me nā kukui ho'okū ma ke kumu kū'ai a me ka li'iili'i o ka ho'opilikia i nā 'aina e puni ai kēia mau wahi.

'O ka laulā ma'a mau o ka ROW alaloa ma kēia wahi, he 60 kapua'i. Eia na'e, he mau kāmala ho'okū peki ma mua o ke Kikowaena Kūlanakauhale o Kalāheo e 'āe ana ma luna o ka 'aina o ia kikowaena kūlanakauhale. He mau kumu lā'au ho'i ma nā lua he 'ehā kapua'i ka laulā ma nā ala hele wāwae he 'ewalu kapua'i ka lō'ihi. Inā e pa'a mau nā uea uila e kau ana i luna, e kapakahi ho'i ka noho 'ana o nā kumu lā'au a me nā pahu uila e pono ai ka holo 'ana ADA. Pena 'ōma'oma'o 'ia nā ala holo paikikala i mea ho'i e akāka ai ka 'ike 'ana iā ia a i mea ho'i e ho'omālie ai ke kalaiwa 'ia 'ana o nā ka'a e mā'alo ana i ka Taona Kalāheo (Ki'i 4-17).

Aia ho'i he mana'o hou e hiki ai ke komo i loko o kēia palapala ho'olālā e 'ike 'ia ia ma Ki'i 4-15 me ka ho'one'e 'ana i nā kūna ka'a 'ōhua mai ke Alanui Papalina a ke Alaloa Kaumuali'i no ka ho'oponopono 'ana i ka holo 'ana o ke ka'a Kekaha-Līhu'e. Lohi ia i kēia manawa ma muli o nā huli he nui mai nā alanui a i ke alaloa. Aia ana nō ho'i paha ma mua o ka Hale Kaua'i Kookie e kūkulu 'ia a'e ana ma ke komohana o ke Alanui 'Ōpū (ke holo i ke komohana) a i mua ho'i o ke Kikowaena Kūlanakauhale o Kalāheo (ke holo i ka hikina). E wehe 'ia ana kekahi mau kāmala ho'okū ka'a ma ka'e alanui ma mua o ke

kikowaena kūlanakauhale inā e kūkulu 'ia kekahi kūna ho'okū ka'a 'ōhua me kahi ho'okū ka'a 'ōhua ma laila. Ua kūkākūkā ho'i me ka 'ohana Kawakami no ka ho'one'e 'ana i ke kūna ho'okū ka'a a wahi ho'okū ka'a ho'i no ka 'ae 'ana paha ma luna o ko lākou 'aina e kūkulu 'ia a'e ana ka Hale Kaua'i Kookie.

Ki'i 4-15: Ka Nūnē 'ana no ka Ho'oponopono Alanui no ke Alaloa Kaumuali'i me ke Ala Papalina (Palapala 'Āina Kalāheo 5)



**Ke Alaloa Kaumuali'i me kona paukū ma'a mau ma Kalāheo (6).** No nā paukū ma'a mau o ke alaloa ma Kalāheo Taona ma mua o nā ale 'oihana, ua lawa ho'i nā ROW he 60 kapua'i i nā ala hele wāwae he 'eono kapua'i, nā ala kalaiwa he 'umikūmākahī kapua'i, nā ala holo paikikala he 'eono kapua'i, a me nā wahi ho'okūka'a ma ka'e alaloa (Ki'i 4-16 me Ki'i 4-18). Aia nā lua kumu lā'au i loko o nā pīpā huku mānoanoa ma waena o nā kāmala ho'okū kaulike i mea e 'ae 'ole ai lākou i ke ala hele wāwae a i mea e kū ai 'o ia he ho'onaninani mālama 'aina ma ke omo 'ana i ka wai ua (Ki'i 4-19). He mau wahi omo wai i kūkulu kīmeki 'ia e waiho nei ma nā 'ao'ao 'elua o ka ROW a he mau mea e kū kī'o ai ka wai e 'ai 'ia ai ke ala a loa'a mai ke alanui pukapuka a kapakahī ho'i.

**Kaumuali'i Highway, Typical Section through Kalāheo (6).** For more typical sections of the highway through Kalāheo Town fronting the commercial uses, the existing 60-foot ROW roadway can accommodate 6 foot sidewalks, 11-foot travel lanes, 6-foot bike lanes, and on-street parking on both sides of the highway (Figure 4-16 and Figure 4-18). Tree wells are located in bulbouts between parallel parking stalls so they do not encroach into the sidewalk and can be designed as landscaped bioswales to collect and filter rainwater runoff (Figure 4-19).

I pale ho'i nā ka'a ho'okū ma ka'e alanui a me nā kumu lā'au no nā kaiāhale ma kahi o ke alaloa, e ho'opa'a ana ho'i i wahi pakele no kānaka ma mua o nā hale kū'ai (Ki'i 4-19). I ka hikina o ke Ala Papalina, e ho'omau aku i nā ala hele wāwae a hiki loa aku i ke Ala Hokua ma kai o ke alaloa i ala holo mau a hiki i ke kula ha'aha'a o Kalāheo, a e hōoki na'e ma Brick Oven Pizza ma uka o ke alaloa. Aia nō ke kū nei he pale ho'opakele ma ka hikina o Kalāheo Café ma kai o ke alaloa a e aho ho'i he ala hele wāwae ma kai ona. E wehe 'ia aku nā wahi ho'okū ka'a ma nā ka'e 'elua o ke alaloa ma Brick Oven Pizza ma uka a ma Kalāheo Café ma kai.

Ki'i 4-16: Ka Nūnē 'Ana i ka Ho'oponopono Ho'onaninani 'Ana ma ke Alaloa Kaumuali'i ma mua o nā Kaiāhale (Palapala 'Āina Kalāheo 6) me Ala Hokua

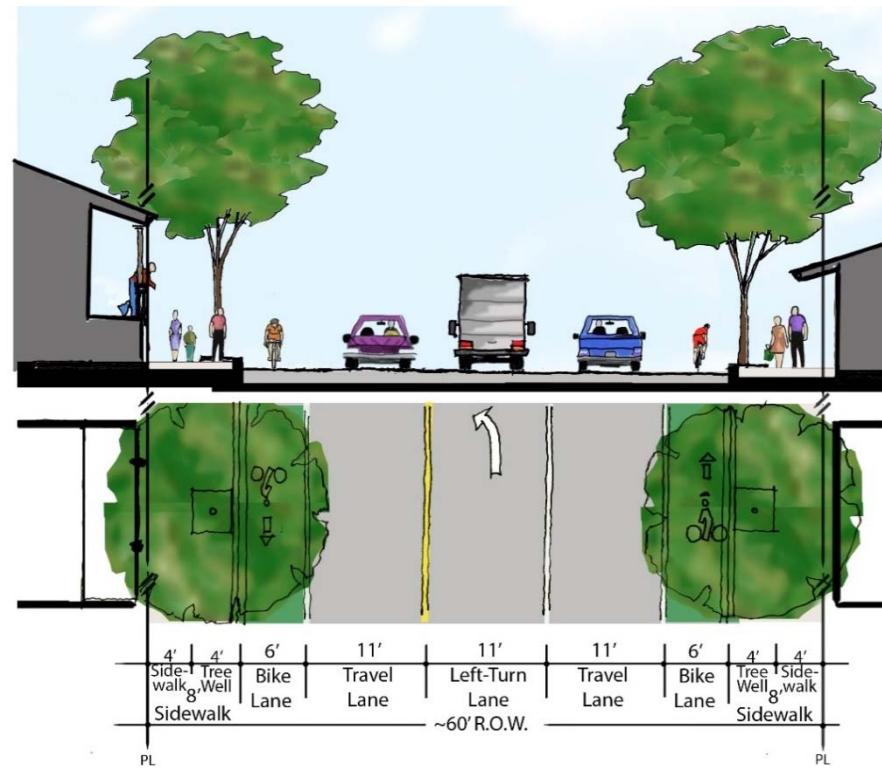


## KAUĀ'I HEMA PAPAHANA KAIĀULU | Hō'ulu'ulu Pōkole Ho'okō

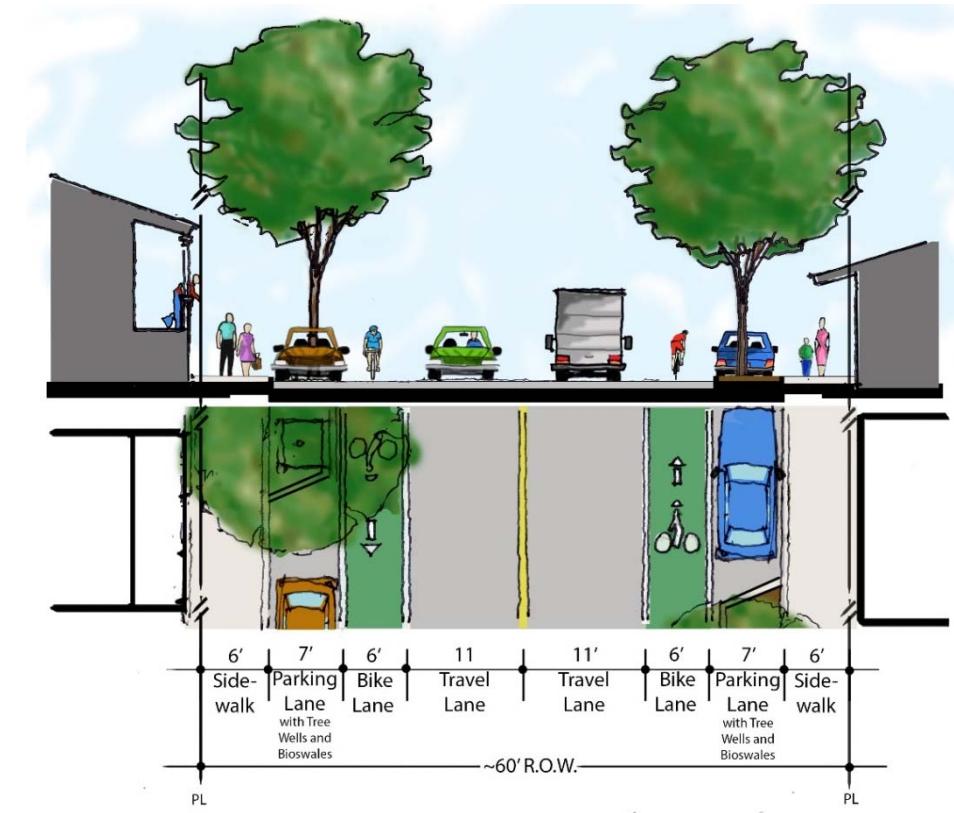
Ma ka hiki 'ana i Ala Hokua mai Līhu'e, aia he wahi ho'oka'awale 'ia ma waena o ke alaloa i hiki ke ho'ololi 'ia a he wahi ho'onaninani i mea e 'ike ai nā mea kalaia i ke komo 'ana i Kalāheo Taona a i mea ho'i e lohi mai ai a 'imi i kānaka hele wāwae. E kanu 'ia nā lā'au nani, 'āole na'e he mau kumu lā'au i laila. Hiki ke kūkulu ho'i he mea ho'onaninani mālama 'āina me nā pīpā pukapuka i holo pono ka wai ua. E ho'onoho 'ia nō ho'i nā pu'upu'u e 'ike ai nā mea kalaiwa i ka pono o ke kalaiwa lohi 'ana (Ki'i 4-16).

Ma ke komohana o Papalina, paipai 'ia ka ho'olō'ihi 'ana i nā ala hele wāwae a hiki aku i kahi e 'āe ai i kekahi 'ao'ao ma kahi o ka Hale Pule Katolika 'o Holy Cross ma ka palapala 'āina. A i komohana hou aku, aia he mau hale a hale pule ho'i e pono ai kekahi ala hele wāwae e ho'okāpili ana i Kalāheo Taona. Eia kā, i pilikia nō paha ia i ka hiō o ka'e alanui ma laila. A 'oiai ua li'ili'i ka hele 'ia o kēia wahi, 'āole paha pono ia ho'olilo kālā 'ana. Hiki ke ana 'ia ka hele 'ia o kēia wahi ma ka mālama 'ana i palapala ana no ka po'e ma laila no ka ho'opa'a 'ana i ka makemake a 'ole paha i ala hele wāwae ma 'ō aku o ka hale pule 'o Holy Cross. Hiki ho'i ke ho'okohu 'ia nā ala 'ololī e holo paikikala ai ma ke alaloa, a ho'okomo ana ho'i i nā ala ka'e i ke komohana.

Ki'i 4-17: Ke Alaloa Kaumuali'i me ke ala huli hema a me nā ala holo paikikala (Palapala 'Āina Kalāheo 5)



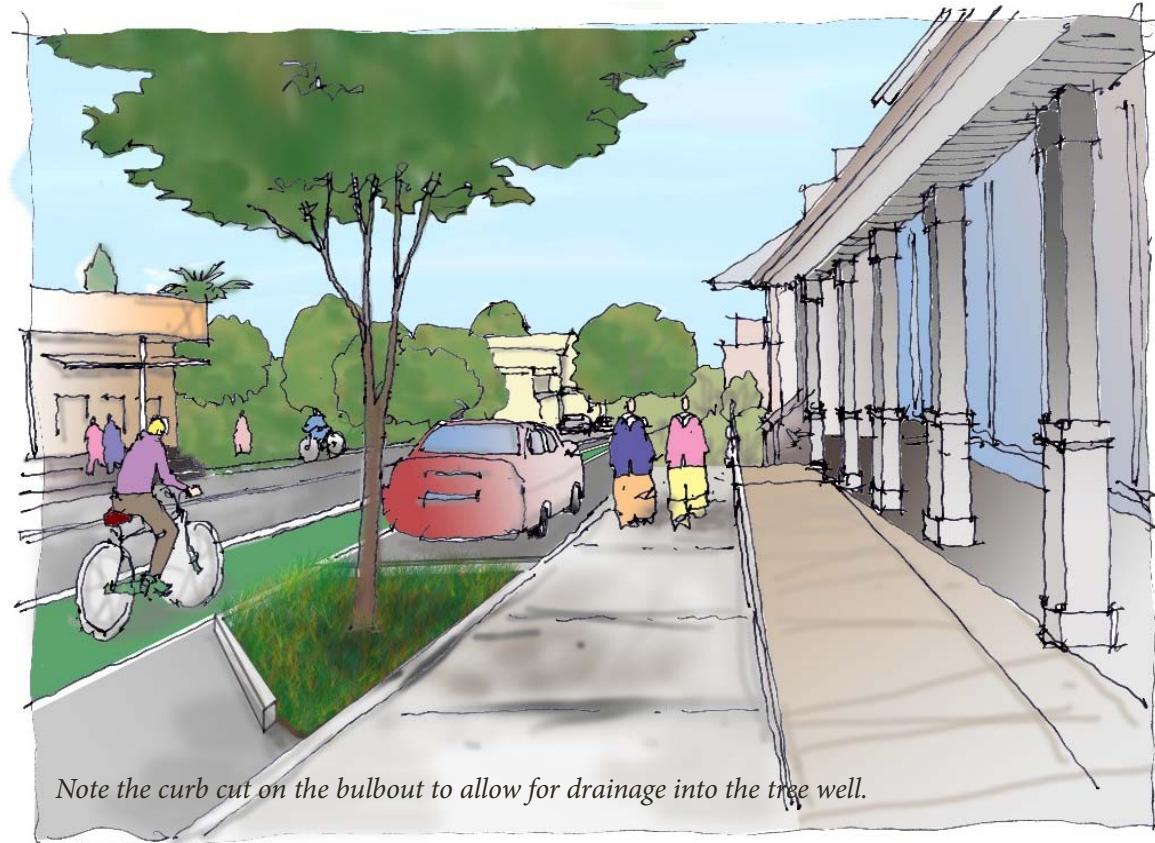
Ki'i 4-18: Alaloa Kaumuali'i ma'a mau me nā Ala Holo Paikikala me nā Wahi Ho'okū Ka'a ma Ka'e Alanui (Palapala 'Āina Kalāheo 6)



aho nā ala hele wāwae i ka hema o ke Ala Papalina no ka holo pakele 'ana o kānaka i kauhale a ho'i mai. Eia paha he ha'ina e 'ike 'ia ma Ki'i 4-20. Ma ka ROW he 30 kapua'i, he 'elua ala 'umi kapua'i, he ala hele wāwae 'eono kapua'i ma ka hikina o ke Ala Papalina a me ka mea ho'ōnaninani mālama 'āina hāiki ma ke komohana.

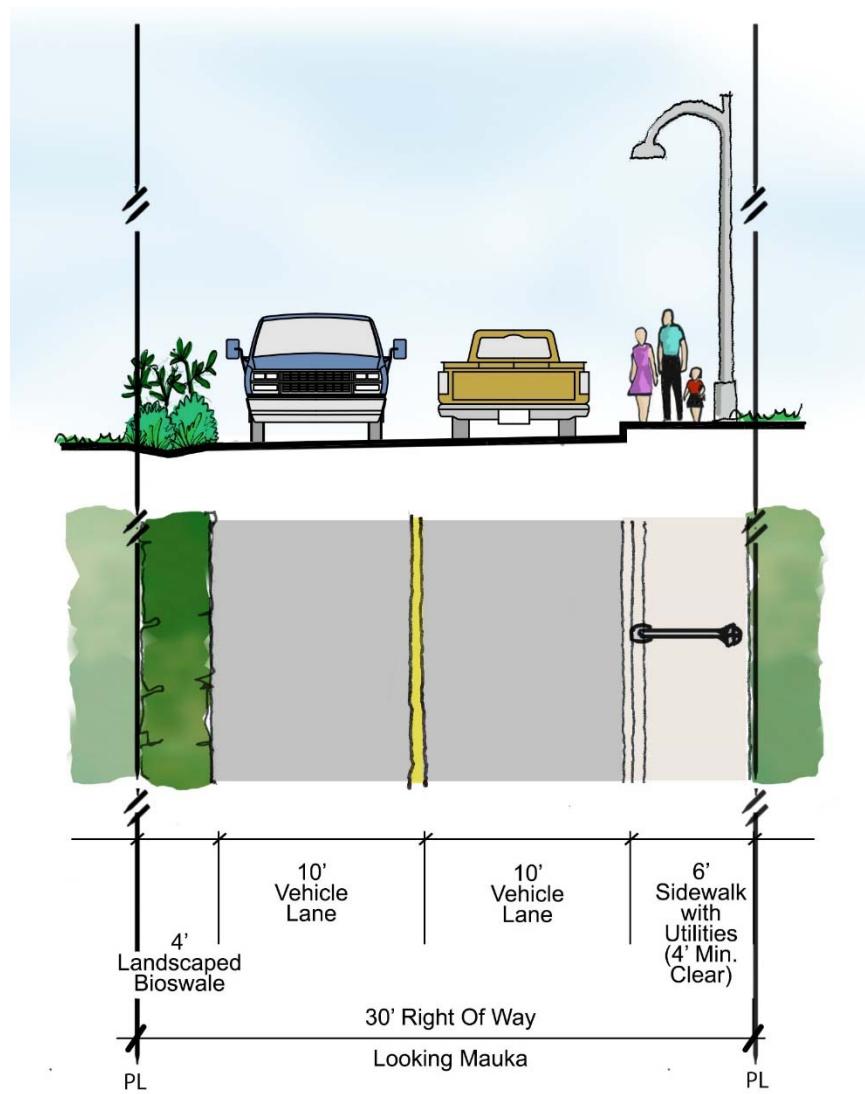
**Ala Pu'u'uwai (8).** 'O ke Ala Pu'u'uwai, ma uka o ke alaloa, ke ala ho'okahi e komo ai i Kalawai Pāka, he wahi kaulana i ka pā'ani ha'uki a me ka ho'oluana 'ohana. I kēia manawai, 'a'ohē wahi ala hele wāwae e komo ai i ka pāka mai nā kauhale a hāiki ke ka'e alanui. No laila, 'a'ole kalaiwa ka hapanui o ka po'e i ka pāka. Aia ma Ki'i 4-21 he mana'o paukū alanui no kekahī ROW 30 kapua'i. Aia nō ho'i he ala hele wāwae 'elima kapua'i ka lō'ihi ma ka 'ao'ao pi'ina o ke alanui me kekahī paipu omo wai Palani he ho'okahi kapua'i ka laulā a he ala holo lua he 18 kapua'i ka laulā. E pena 'ia nā ka'e 'elua o ke ala me ke kaha he 'eono 'iniha ka laulā. E like ana ho'i ka 'ao'ao ihona o ke ala me ka mea e kū nei me kekahī mea omo wai ma ka'e alanui.

Ki'i 4-19: 'Nānā 'Ana o ke Alaloa Kaumuali'i me nā Ala Holo Paikikala a Ho'okū Ka'e Alanui (Palapala 'Āina Kalāheo 6)

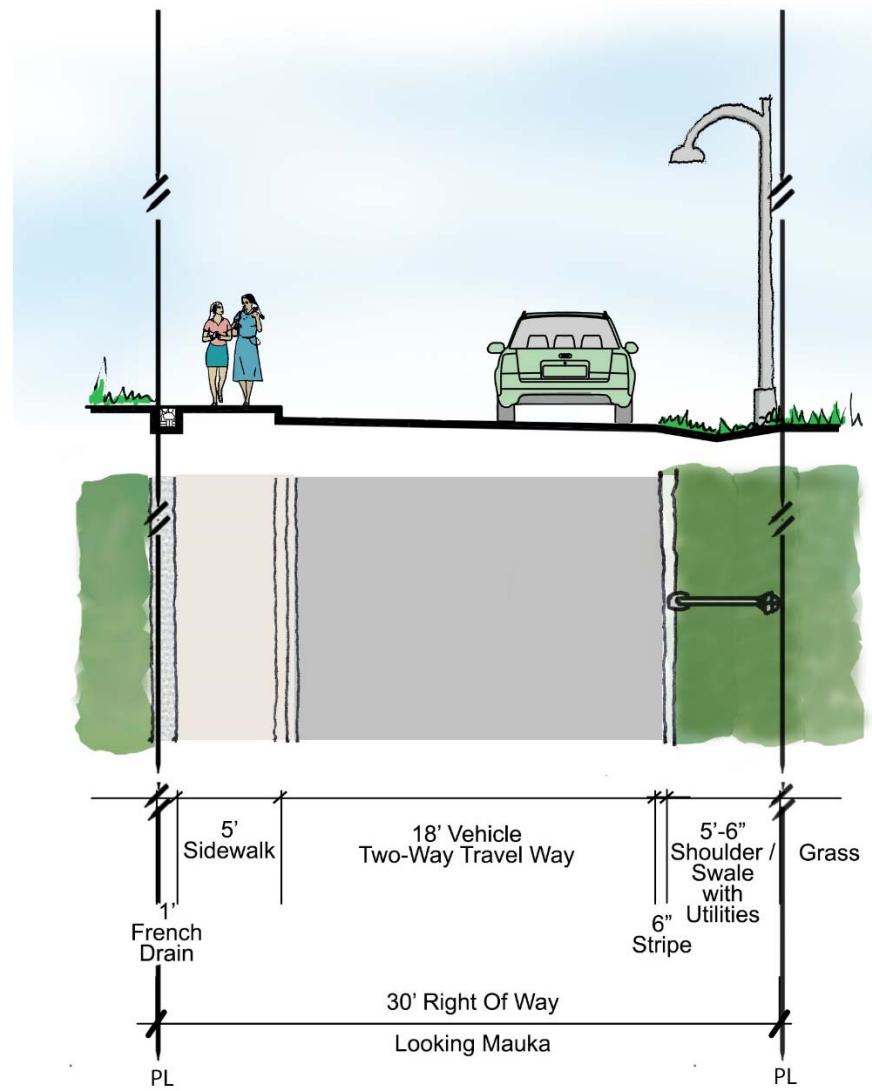


**Ala Papalina (7).** He ROW 'ano laulā kō Ala Papalina ma ka paukū hema pono o ke alaloa e pono ana kahi ho'okū ka'a ma ka'e alanui a aia nō ke waiho nei ma laila nā ala hele wāwae ma nā 'ao'ao 'elua. Hiki ke kūkulu 'ia nā ho'oponopono li'ili'i e like me ka mea e lawa ai ka ADA; 'o ia ho'i nā wahi pīpā huku mānoanoa ma kahi e 'a'e ai i kekahī 'ao'ao a me ka ho'olaulā 'ana paha i nā ala hele wāwae. Eia na'e, i ka hema ho'i, ma mua o ke kā'alo 'ana i ke Ala Pu'u i ka hiki 'ana i kauhale, pau ke ala hele wāwae a hāiki mai ka ROW a he 30 kapua'i. Ha'i mai ka po'e o laila a me ke po'okumu o ke kula ha'aha'a o Kalāheo e

Ki'i 4-20: Ala Papalina (Palapala Āina Kalāheo 7)



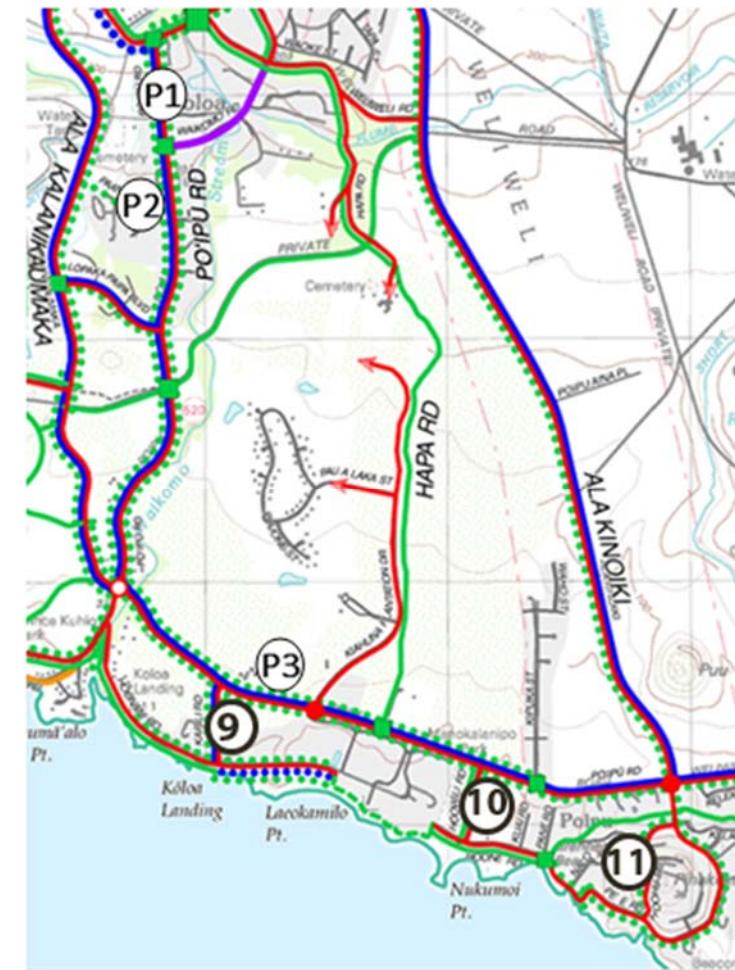
Ki'i 4-21: Ala Pu'uawai (Palapala Āina Kalāheo 8)

**4.3.4.3 Po'ipū**

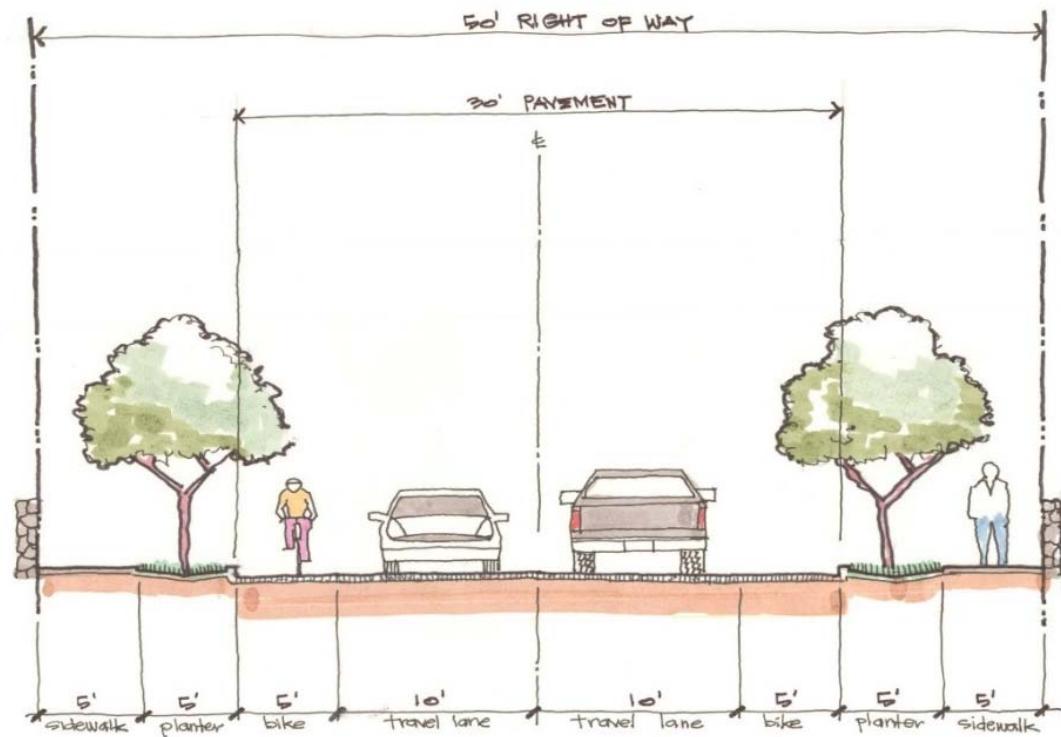
‘Aole i kaha ‘ia nā paukū alanui no ke Ala Po‘ipū no ka mea, aia nō nā ho‘oponopono ‘ana i ke Ala Po‘ipū mai ke Ala Kōloa a hiki i ka hōkele Grand Hyatt ma ka STIP a e ho‘olālā ‘ia ana e like me ka mea i ho‘omāhuahua a‘e ai ma hālāwai nui o ke Kalana no ke Ala Po‘ipū. Aia kekahī o ia mau lā‘ana ma Ki‘i 4-23 a i 4-25 me ka mana‘o kaha ki‘i ‘ia ma Ki‘i 4-26.

‘O ka mea wale nō e mana‘o ‘ia nei e ho‘okomo ‘o ka mea ho‘onaninani mālama ‘āina ma loko ho‘i o ka ROW o ke Ala Po‘ipū he 120 kapua‘i ka laulā e holo ana ma waena o ke ala poepoe a me ka hōkele Grand Hyatt no ke kōkua ‘ana i ka holo wai ‘āina e hālana ana i ka ‘āina ma kai e like me ke kahua ho‘okū ka‘a ma ka Pāka Kahakai o Po‘ipū a me Kāneiolouma. No nā haku o nā ‘āina ma uka ke kuleana o ka ho‘ēmi ‘ana i ka wai o ko lākou mau ‘āina pono‘i, akā, He pono nō paha ka nānā ‘ana i ka hiki me ka hiki ‘ole ke ho‘ēmi ‘ia nā wai holo me nā mea ho‘onaninani ‘āina e holo ana ma ke Ala Po‘ipū. Hiki ke kūkulu ‘ia ia mau mea ho‘onaninani ‘āina me nā lā‘au ‘ōiwi a me nā lā‘au Polenekia e kohu ana i ka nānā ‘ana o ka mea mana‘o ‘ia no kēia alanui.

Ki'i 4-22: Palapala Āina Po'ipū



Ki'i 4-23: Alanui Po'ipū, Paukū ma Taona Kōloa ma kahi o ke Alanui Kōloa (Palapala 'Āina Po'ipū P1)



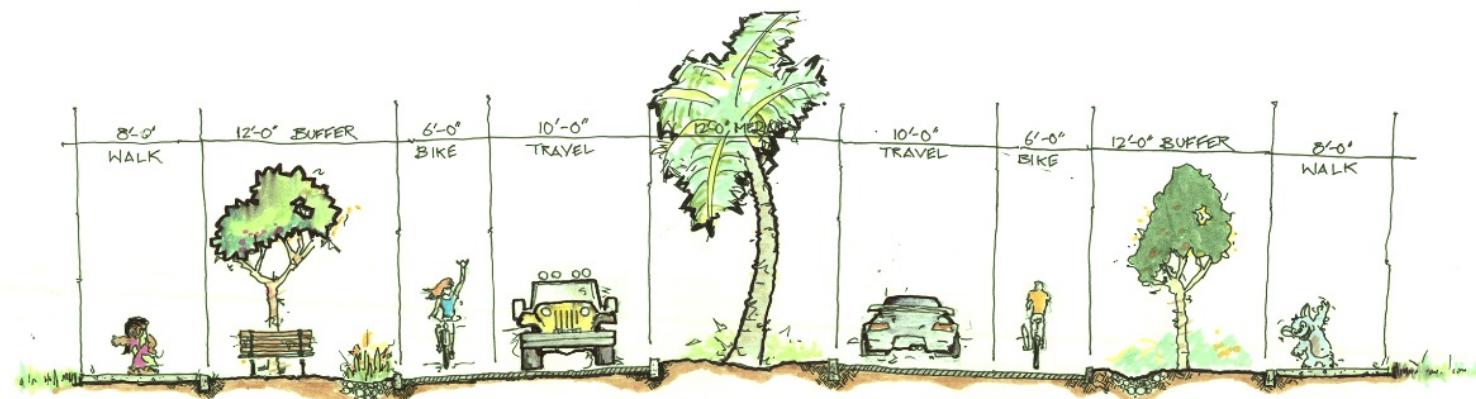
Ki'i 4-24: Ala Po'ipū, Paukū ma kahi o ke Ala Blakes (Palapala 'Āina Po'ipū P2)



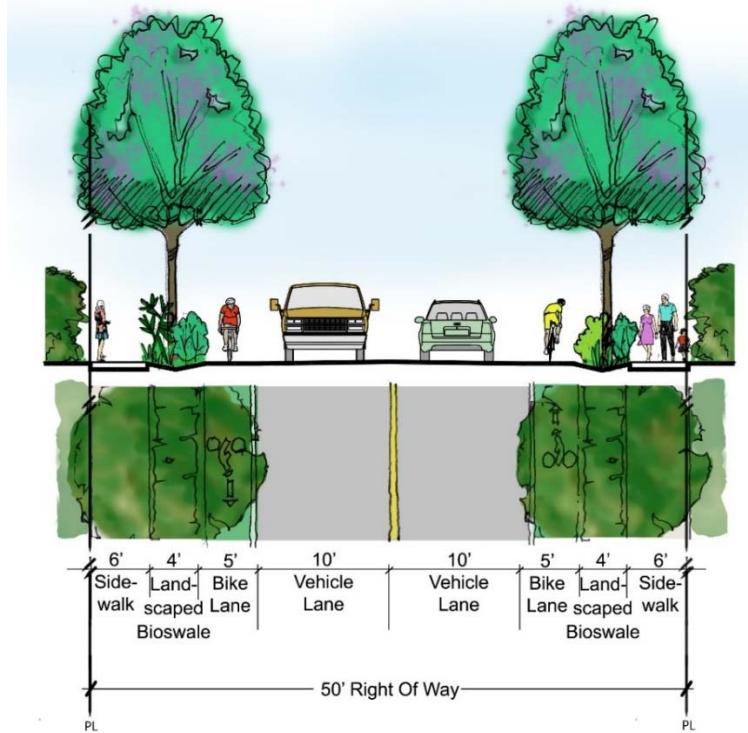
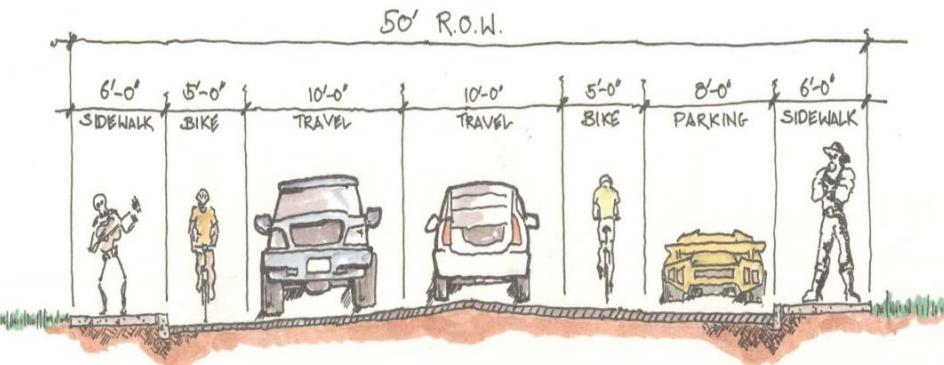
Ki'i 4-25: Alanui Po'ipū, Paukū Hökele (Palapala 'Āina Po'ipū P3)

Ki'i 4-26: Alanui Po'ipū: Mana'o no ka paukū hökele (Palapala 'Āina Po'ipū P3)

**Alanui Kapili (9).** He ala ho'opili ke Ala Kapili e holo ana mai uka a kai ma waena o ke Ala Po'ipū a me ke Ala Ho'onani no nā 'āina hökele e like ho'i me ka Sheraton Kaua'i, Po'ipū Kapili, a me ka Paena Kōloa e kūkulu hou 'ia nei me ka Sheraton. 'O ka ROW e kū nei, he 50 kapua'i, a aia nō he mau ala hele wāwae he 'ehā kapua'i ma kekahī mau paukū o ke alanui. 'O ka paukū e mana'o 'ia nei, ke noi aku nei e kūkulu 'ia ma luna o nā hale e kū nei, ho'olaulā ana i ke ala hele wāwae a 'eono kapua'i no nā 'ao'ao 'elua a e ho'okomo ho'i i nā ala holo paikikala a me nā mea ho'onaninani 'āina me nā kumu lā'au (Ki'i 4-27).



Ki'i 4-27: Alanui Kapili (Palapala 'Āina Po'ipū 9)

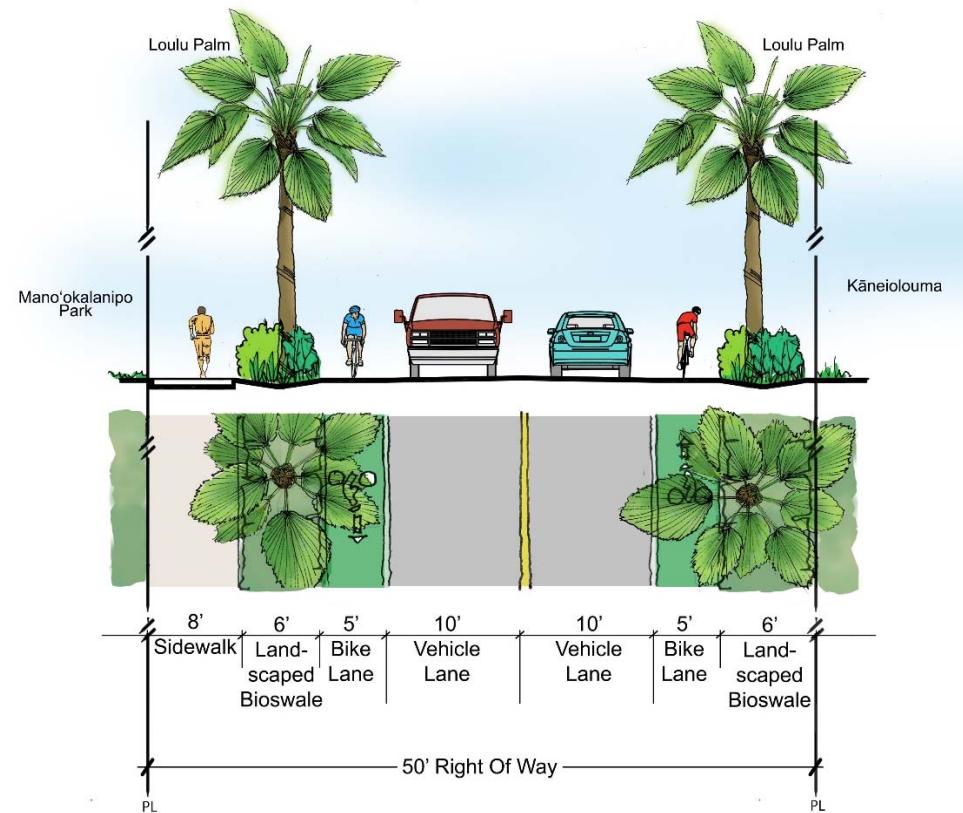


**Ala Ho'owili (10).** Holo ke ala Ho'owili ma waena o ka Pāka Mano'okalanipo a me Kāneiolouma, nā wahi mo'omeheu Hawai'i. 'O ia ho'i ke ala nui e komo ai i ka Pāka Po'ipū a me kona kahua ho'okū ka'a. 'O ka mea e mana'o 'ia nei, he ala hele wāwae he 'ewalu kapua'i ka laulā ma ka'e o ka pāka, nā ala holo paikikala, a me nā mea ho'onaninanani 'aina (Ki'i 4-28). I kēia manawa, Hālana ke kahua ho'okū ka'a i ka wā ua nui, e hō'ole ana i ka ho'okū ka'a 'ana. E holo ana nā mea ho'onaninanani 'aina i 'ike 'ia i ka loa o ke Ala Ho'owili, e ho'olako ana i nā wahi nui kanu 'ia no ka ho'āhu 'ana, ke kālana 'ana, a me ke kānono 'ana i ka holo wai. 'O nā kumu loulu a me nā lā'au 'ōiwi, 'ōiwi a kama'āina ho'i iā Po'ipū, nā mea e kanu 'ia no ke kālele 'ana i ke ko'iko'i o ka mo'omeheu ma laila.

Ki'i 4-28: Ala Ho'owili (Palapala 'Āina Po'ipū 10)

). Currently the beach parking lot floods during heavy rainfall events, rendering much of the parking lot inaccessible. The bioswales as shown would run continuously down the length of Ho'owili Road, providing large landscaped areas to help with collecting, filtering, and infiltrating rainwater runoff. Loulu palms and native plants, particularly those native to Po'ipū, should be installed to highlight the cultural importance of the area.

Ki'i 4-28: Ala Ho'owili (Palapala 'Āina Po'ipū 10)



**Ala Ho'ohu (11).** He ala kaiāhale haiki 'o ke Ala Ho'ohu e wili a'e ana i ka pu'u Pihakekui ma uka o ka Lae 'o Makahū'ena a e pili ana ho'i i ke Ala Pe'e a i ke Ala Po'ipū. E hana hou 'ia ke alanui a he ala hō'ae e ho'olohi i ka holo 'ana o nā ka'a, e lako nā wahi ho'okū ka'a, a e 'ae i ka holo wāwae 'ana o kānaka a me ka holo paikikala. Inā e lako ho'i nā ala ma ka'e alanui, e kaha 'ia ho'i me nā laina he 'eono 'iniha no ka 'ike le'a 'ia 'ana.

#### 4.3.4.4 Alanui Lopaka Paipa

Ua kūkala 'ia ka mana'o o ke kaiāulu no ka wikiwiki o ka holo ka'a a me ka weliweli ma ke Alanui Lopaka Paipa i ka hana 'ia 'ana o ke ala ho'opili ma waena o ke Ala Kalanikaumaka a me ke Ala Po'ipū. Eia kā, kūkala aku nō kekahi mau kānaka o ke kaiāulu no ka pono o ka hana 'ana i ka mea ho'opili mai ka hikina a komohana e ho'ēmi i ka pa'a o ke alanui i nā ka'a ma ke Ala Po'ipū. No ka ho'omana'o 'ana i kēia mau mana'o, paipai a'e ka ho'olālā e mana'o 'ia nei i ka ho'ēmi 'ana i ka pa'a alanui a me ka ho'oponopono 'ana i nā huina alanui no ke kōkua 'ana i ka ho'olohi 'ana i ka holo ka'a 'ana me nā uake'e huli wikiwiki a me nā ala hele wāwae no ka ho'opalekana 'ana. Ua kūkākūkā 'ia ho'i no ka nānā 'ana i ke kūkulu 'ana paha o kekahi ala ho'opili hou aku e holo ana mai ka hikina a komohana ma ka hema o ka pāka no ka ho'opili maika'i 'ana. Ua mana'o 'ia ke ala halihali kō. Eia na'e, kā'alo ia i ka 'aina aupuni i pāpā 'ia, no laila i kāpae 'ia ia mana'o. Hiki nō na'e ke ho'oholo 'ia ia mana'o me ka ho'olālā 'ana.

#### 4.3.5 Ka Ho'olālā 'Ana i ka Nānā 'Ana o ke Alanui

Ma nā wahī e paipai 'ia a'e nei ka holo wāwae 'ana o kānaka, e ho'olako 'ia nō nā mea e ho'opalekana a e ho'ōnanī a'e i ka 'aina, e like ho'i me nā noho, nā hōailona, a pēia aku ana. Ho'ōkomo 'ia ho'i nā pīpā huku e ho'opōkole ai ka hele 'ana mai kahi 'ao'ao a kahi 'ao'ao o ke alanui. Hiki ke ho'ōkomo 'ia ia mau mea i nā wahī ho'okū ka'a ma ka'e alanui a kūkulu 'ia ma ke 'ano he mea ho'ōnaninani 'aina e omo ana i ka wai holo, ho'ōmalu iho, a ho'ōnanī a'e ho'i i ka 'aina. E kanu 'ia ho'i nā lā'au 'ōiwi a Polenekia paha no ka ho'ōkomo 'ana i mea ho'ona'auao.

Ki'i 4-29: Ka Nānā 'Ana i ke Alanui me nā kāmala ho'okū ka'a hiō a me nā pīpā huku ma kū'ono



Ki'i 4-30: Nā Pīpā huku ho'ōnaninani 'ia me nā mea omo wai a me nā noho



#### 4.3.5.1 Nā Mea Kia'i

I mea e kālele ai i ka mo'olelo a me ka mo'omeheu o ke Ke'ena Ho'olālā, e ho'ōkomo 'ia ho'i ia mau mea ma nā hōailona (helu, kuhina, wahi ho'ōnanā/ala kahiko), ke kīpapa ala hele wāwae, a me nā mea ho'ōnaninani no ka ho'omaika'i 'ana a me ka mahalo 'ana i ke 'ano o kēia 'aina. E kūkulu 'ia nā hōailona ma nā wahī nui kahiko i kahi e lilo 'ole ai ia mau mea he ālaina a 'ike 'ia na'e e ka lehulehu. E like paha me nā hōailona moku a ahupua'a paha ma ka'e alanui e ho'ike ana i nā palena 'aina o ka wā ma mua. Hiki ke ho'ohui 'ia ia mau hōailona me kahi mea ho'ona'auao.

#### 4.3.6 Ka Mālama 'Ana

He koina ho'i ka ho'olālā 'ana i kahi mana'o no ka mālama mau 'ana i kēia mau ho'oponopono alanui 'ana ma ke Kikowaena Taona Lihu'e a me Ke Ala Hele Makalae. E like ho'i me kahi hui mālama nahele na ke Kalana e noho ma loko o ke Ke'ena o nā Pāka a i 'ole e a'o 'ia nā limahana o ke Ke'ena Mālama Pāka no ka mālama 'ana i nā kumu lā'au alanui, nā mea ho'ōnaninani

a me nā mea omo wai. Hiki ho'i ke hai 'ia nā hui mālama 'aina. E uku 'ia paha ia mau banana e kekahi mau mea, e like me ka uku ho'okū ka'a, ka hui 'ana o nā haku 'aina a me ke kaiāulu, nā hōkele, a i 'ole ka hana 'ana i nā wahī ho'oponopono a i 'ole nā mea mālama hale e like me ka mea i 'ike 'ia ma Paukū 6.3.2.

Eia ho'i, 'olelo mai ka po'e kama'aina i ke ko'iko'i o ka mālama 'ana i nā ka'e alanui ma ke Ke'ena Ho'olālā no kona holo 'ia 'ana e nā mea holo paikikala a holo wāwae ho'i. He pilikia nō ho'i nā lā'au e ulu a hewa ana. Ho'ōnaninani 'ia ho'i nā haku 'aina e ho'oulu ana a 'e ana i kahi o ka po'e lehulehu, a keu aku ho'i kēia pilikia i ke ālai 'ia 'ana o nā ala hele. Paipai 'ia ka wehe 'ana o ia mau ālaina.

#### 4.3.7 Nā Kumu Lā'au Alanui

Paipai 'ia ke kanu 'ana i nā lā'au 'ōiwi no ka nānā nani 'ana o ke ala a me nā mea kia'i.

Papakau 4-3: Nā Kumu Lā'au Mana'o 'Ia

Roadway	Street Tree
<b>Kōloa and Maluhia Roads within Kōloa Town SPA</b>	Monkey Pod ( <i>Samanea saman</i> ), Royal Poinciana ( <i>Delonix regia</i> ), or Mānele ( <i>Sapindus saponaria</i> )
<b>Weliweli Road</b>	Giant Crepe Myrtle ( <i>Lagerstroemia speciosa</i> ) or Māmane ( <i>Sophora chrysophylla</i> )
<b>Ala Kinoiki</b>	True Kamani ( <i>Calophyllum inophyllum</i> ), Mānele ( <i>Sapindus saponaria</i> ), or other large native canopy tree
<b>Po'ipū Road (between the roundabout and Grand Hyatt)</b>	Monkey Pod ( <i>Samanea saman</i> ) or True Kou ( <i>Cordia subcordata</i> )
<b>Kaumuali'i Highway in Kalāheo</b>	Lama ( <i>Diospyros sandwicensis</i> ) or Lonomea ( <i>Sapindus oahuensis</i> )
<b>Ho'owili Road</b>	Loulu ( <i>Pritchardia aylmer-robinsonii</i> , <i>P remota</i> )
<b>Kapili Road</b>	True Kou ( <i>Cordia subcordata</i> ) or Milo ( <i>Thespesia populnea</i> )

### 4.4 NĀ LĀ'AU 'ŌIWI O KUA'I & NĀ KUMU LĀ'AU KŪIKAWĀ

#### 4.4.1 Nā Lā'au 'Ōiwi o Kaua'i

E kanu 'ia nā lā'au 'ōiwi, 'o ia ho'i nā lā'au 'ōiwi o Kaua'i Hema ma nā ala noa e like me ka mea 'ike 'ia ma ka mea i mana'o 'ia a ho'ohui 'ia ho'i me kahi mea ho'ona'auao. 'Ike 'ia ho'i ma ka palapala piha ma ka Papakau 4-5 nā lā'au 'ōiwi o Kaua'i e mana'o 'ia nei he mau mea ho'ōnaninani 'aina me ke Ke'ena Ho'olālā.

#### 4.4.2 Nā Kumu Lā'au Kūikawā

'Ike 'ia nā kumu lā'au kūikawā ma ka Palapala 'Āina ma ke Ki'i 4-1 no ke kālele 'ana i ke ko'iko'i o ka mālama 'ana iā lākou i nā ho'ohana 'ana a me nā ho'oponopono 'ana i ka wā e hiki mai ana. E mālama 'ia ho'i nā kumu 'ōhai

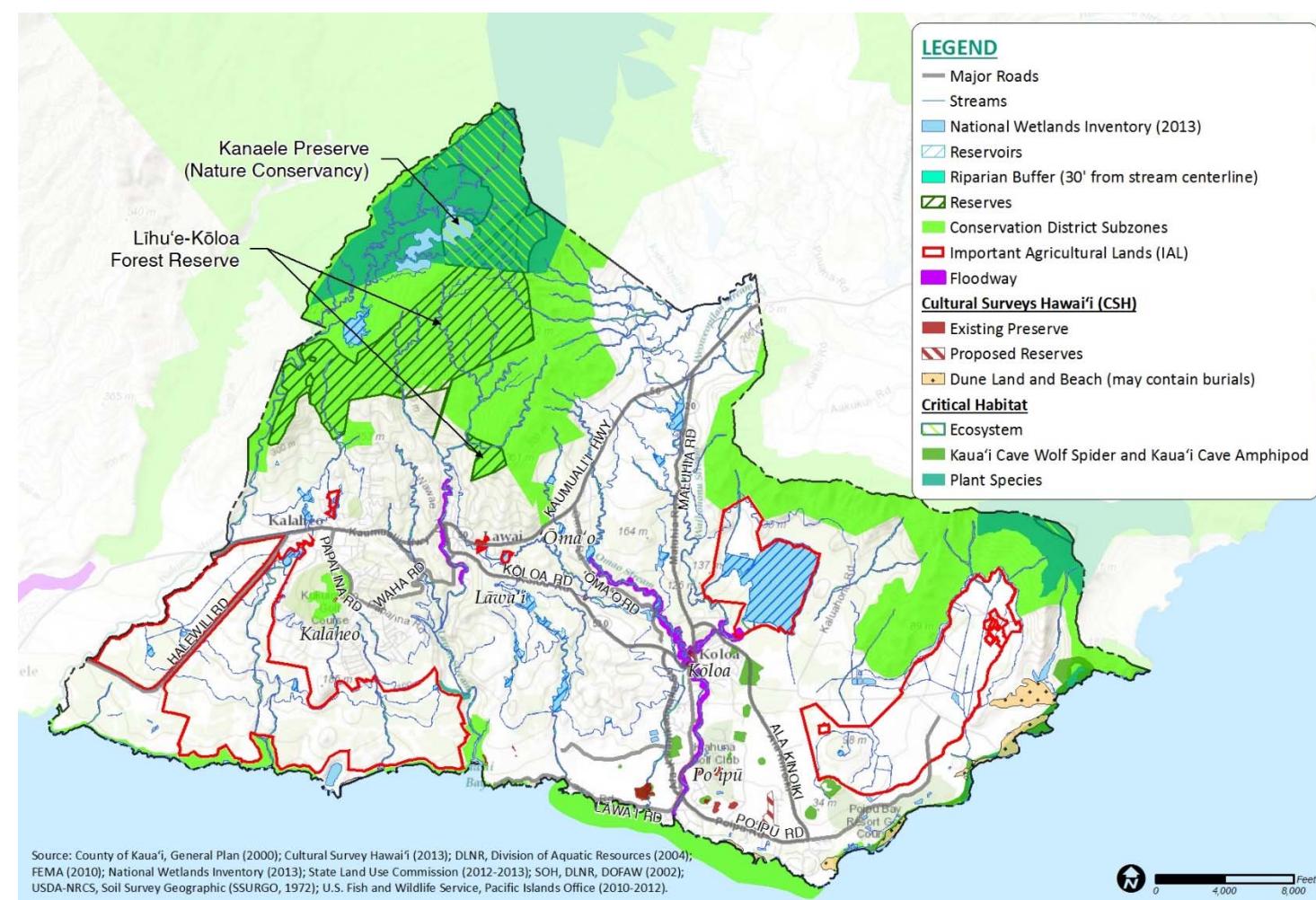
haole ma ke Ala Kōloa ma waena o nā Ala Po'ipū a me Waikomo a ma ke Ala Po'ipū ma waena o nā Ala Kōloa me Waikomo, a 'ike 'ia he mau kumu lā'au kūikawā

Ua hai 'ia akula he mea mālama kumu lā'au no ka nānā 'ana i ke ola pono a pono 'ole paha o nā kumu lā'au ma ke ala kaulana i kapa 'ia 'o "Tree Tunnel" ma ke Ala Maluhia. Ua 'ike 'ia ho'i, pono e ho'okaika i ka mālama 'ana i 85% o nā kumu lā'au he 650 a 'oi aku a emi mai paha a e ho'onui i ka nānā 'ana (Borgatti 2014). Ua ho'ohui 'ia he hui kanaka na ka Meiae nānā pono i kēia mana'o no ka mālama 'ana i ke ana kumu lā'au.

## NĀ KUMU KŪLOHELOHE A MO'OMEHEU

Hō'ike 'ia e ka mahele kumu kūlohelohoe a mo'omeheu nā papahana no ka ho'okele 'ana i ka mālama a ho'omaluhia 'ana i nā wahi ku'ia wale ma ka mo'omeheu a me ka 'aina ma Kauai Hema (Ki'i 4-31). Aia ka nui o ia mau mea ma nā 'aina kūlohelohoe, nā 'aina mahi, nā ki'o wai a 'aina wai ho'i, a me nā pāka ma ka Palapala Ho'olālā Mana'o o Kauai Hema.

Ki'i 4-31: Nā Wahi e Mālama ai



Ma kahi o 31,300 'eka i mana'o 'ia ma loko o kahi ho'olālā 'ia, 'o ia ho'i, ma kahi o 79%, aia i nā 'aina waiho wale 'ia no ka ho'ohana 'ia 'ana; 28% i ho'okohu 'ia he mea kūlohelohoe, 42.2% he 'aina mahi, 5.6% he mau ki'owai a 'aina wai ho'i, a 3.2% he mau pāka. 'O nā wahi kūlohelohoe, 'o ia nā 'aina i piha i nā kumuawai kūlohelohoe; nā kumuawai, nā wahi kūikawā i nā

mo'olelo, nā mo'omeheu, nā 'aina nani, nā mea o kahiko, a me nā 'aina i noho 'ia e ka lā'au, nā i'a, a me nā mea ola 'ōiwi. Pau pū ho'i me nā 'aina e pilikia koke i nā mea kūlohelohoe ho'opilikia e la'a ho'i me ka wai hālanalana.

### 4.4.3 Ka Mālama Kumuawai 'Ana

'O nā kumuawai o uka nā wai e holo ana ma nā kahawai holo mau a me ke kumu o nā wai mānalo. 'O ka mana'o nui, e mālama i nā kumuawai mai ka uka a ke kai no ka holo pono o ka wai a me nā 'aina e pili mai ana. Ho'omahele 'ia nā papahana a me nā mana'o kia'i i 'ehā mahele no ka mālama kumuawai 'ana: ka mālama a ho'olālā 'ana i ke kumuawai, ke kāohi 'ana i ka holowai a 'ai 'aina, mālama 'aina noho 'ia, a me ka mālama 'ana i ka pono o ka wai.

#### 4.4.3.1 Ka Ho'olālā a Mālama Kumuawai 'Ana

- Hui me nā Ke'ena Moku'aina (Office of Planning, DLNR, DOH, Soil and Water Conservation Districts), nā ke'ena aupuni (U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service), a me nā hui kama'aina (e.g., Kauai Watershed Alliance) no ka ho'olālā kūpono a mālama kūpono 'ana i nā kumuawai.
- Ho'omākaukau i ka palapala mālama kumuawai.
- E ho'onui i ka hui kumuawai ma o ka paipai 'ana i nā haku 'aina a me nā hui e komo pū i ka hana. E nui ana ka po'e hana pū ma muli o ka Hui Kumuawai o Kauai. 'O ka mana'olana, e ho'onui 'ia nā lālā a me nā kuleana ona ma ka 'Āina Ho'olālā.
- E hana a paipai i ka hana 'ia 'ana o kekahi hui kumuloa'aole no ka ho'omākaukau 'ana i ka palapala ho'olālā mālama kumuawai. Kia aku nō ke Kauai Watershed Alliance i ko lākou mau hana a puni ka mokupuni koe ka 'aina Ho'olālā. No nā pono o ia 'aina, e ho'okumu 'ia he hui kumuloa'aole o ke kaiāulu a i 'ole e 'imi i hui kumuloa'aole 'ano pili nāna e ho'omākaukau i palapala ho'olālā mālama kumuawai e kū i ka pono o ka EPA Clean Water Act Section 319 Nonpoint Source Grant, a loa'a ho'i ia kālā.

#### 4.4.3.2 Ka Hō'ole Wai Holo a me ka 'Ai 'Ia o ka 'Āina

- E mālama 'ia ka mahi 'aina 'ana a me ka hao 'aina 'ana mai ke kumuawai, me ka nānā pono 'ana ho'i i nā 'aina nani, nā wahi pana, nā lā'au 'ōiwi a me nā holoholona ko'iko'i, a me nā kumu kūlohelohoe 'ē a'e.
- E kālana a mālama ho'i i ka wai ua holo ma mua o kona komo 'ana i kahawai a kahakai ho'i i ka wā kūkulu a ho'oponopono ho'i. E kūkulu 'ia nā hale mālama ao kūlohelohoe a pēlā ho'i ko ka 'aina.
- E ho'okumu 'ia he papa hana no ka mālama 'ana i nā holoholona i mahele i ka ma'u'u a holoholona hihiu ho'i, ma kahi o nā kahawai a me nā mea nōkahea. Aia nō he hapanui o ka 'aina 'ai wale 'ia ma ka 'Āpana Maluō ma kahi o nā 'auwai nōkahea, e koi ana i ka mālama kumuawai 'ana e like me ka mālama 'ana i ka nāhelehele me ka holoholona hihiu a me nā pale lā'au ma ka'e kahawai.
- E ho'okumu a ho'oholo ho'i i hana maluō lepo no IAL. 'Ai koke wale 'ia paha ka lepo o ka IAL o Māhā'ulepū, e koi ana i ka hana mālama maluō lepo e nānā a mālama 'ia ho'i e ka ho'olālā 'ana o NRCS.

#### 4.4.3.3 Mālama Kaianoho

- E mālama 'ia nā kaianoho ko'iko'i. He mau kaianoho mālama 'ole 'ia ho'i e ka 'Āpana Maluō a kekahi mea 'ē a'e paha ma ko Kōloa a Po'ipū ho'i. E ho'okohu 'ia nā 'aina mālama kaianoho.
- E paipai 'ia ke noi 'ana i ka hā'awi 'ia 'ana o kekahi waihona kālā no nā 'aina ko'iko'i o ka mālama maluō a i 'ole ho'i nā pale lā'au ma ka'e kahawai (e.g., USDA Conservation Reserve Enhancement Program and other funding).

#### 4.4.3.4 Kūlana o ka Wai a me ka Maluō Kumuawaiwai

- E ho'oponopono i ka holo kahawai 'ana, ka pakele lehulehu, a me ka wai e pono ai nā 'aina mahi.

- b. E mālama 'ia ka 'āpono 'ana o ke Kalana i nā noi no ka luku pani wai 'ana ma nā kumuwai i pa'a ka palapala ho'olālā kumuwai.
- c. E ho'ohikiwae 'ia ka nānā 'ana i nā noi luku pani wai i kū i nā koina palapala.
- d. E ho'opa'a i ka Palena Nui O ka lā (TMDL) no nā kahawai pilikia. Na ke Ke'ena Mālama Ola o ka Moku'āina i ho'olālā i nā kahawai holo wale ma ka 'Āina Ho'olālā – Waikomo, Lāwa'i, a Wahiawa – 'oi pono 'ole nā kahawai pilikia i ke kū 'ole 'ana i ke kūlana wai o ka moku'āina.
- e. E nānā 'ia ke kūlana o ke kai i ka pō'aiāpili o ke kumuwai. I loko nō o ka nānā 'ia 'ana o nā kahakai ma Po'ipū e ke Ke'ena Mālama Ola, no ke ola pono ia o ka lehulehu, 'āole no ke kūlana o ka wai a me ka 'āina pili mai.
- f. E ho'ā'o 'ia nā luawai pelapela no nā mea ho'ohaumia i ka wā ho'ā'o kumu wai. 'Āole 'ike 'ia ke 'ano, ka nui, a me ka hopena o ka hanini 'ana o ka luawai pelapela i ke kūlana o ka wai honua a me wai pili kai.

#### 4.4.4 Ka Mālama Mo'omeheu a me Ka Hō'ike 'Ana

'Ike 'ia 'o Kaua'i he 'āina nui o ka nani ma nā 'āina like 'ole. Pili pono ka mo'omeheu Hawai'i i kēia mau 'āina, i pa'a i nā pana. I loko o ka 'Āina Ho'olālā, aia nō kēia mau mea e pana ai ka 'āina, ka hiki ke mālama a ho'ōla i kēia mau mana'o, a 'o ka hiki ke a'o aku i nā malihini a me nā kama'āina e pili ana i nā mo'olelo like 'ole o Kaua'i Hema.

Wili pa'a pono 'ia nā hi'ohi'ona 'āina kūloheloh (Mount Kahili, Mauna Hā'upu, Māhā'ulepū, pali kahakai me nā pu'e one dunes, kahawai, me nā 'āina kapakai) a me nā hi'ohi'ona 'āina mo'omeheu (Nā Kula o Kōloa, Kāneiolouma, Nōmilu Fishpond, Lāwa'i Kai, Kukuiolono, Hapa Trail, me nā wahi pana kahiko o ke au mahikō) a nāna e hō'ike aku i ke 'ano o nā kaiaulu o Kaua'i Hema ('ike iā Ki'i 3-1). He mea ko'iko'i ka mālama 'ana i kēia mau kumuwaiwai no ke ō mau 'ana o nā mo'olelo Kaua'i Hema.

##### 4.4.4.1 Ka Mālama 'Āina 'Ana

- a. I kū ho'i i ka Papahana Laulā, e ho'olālā 'ia nā papahana ho'omāhuahua no ka mālama, ka ho'opalekana, a me ka ho'ōnui kumuwaiwai 'ana a me ke 'ano pilikahi o Kaua'i Hema.
- b. E ho'oponopono 'ia nā wahi pana.
- c. E like me ka mea i 'ike 'ia ma ka Papahana Laulā, "E ho'omaluō i nā wahi 'ikena o nā wahi 'āole i loli loa mai, a i 'ole nā wahi nani hiehie loa." 'O nā wahi i loli loa 'ole mai, pili kēlā i ka 'ike 'ana a ka maka a me ka loa o ka 'āina i kūkulu 'ole 'ia a i 'ole kekahī mea kūkulu 'ia nāna e ālai i ka 'ike 'ana. 'O ka nani hiehie, pili kēlā i ka nani e pa'a i loko o ka halī'a aloha, e ho'omana'o 'ia no ka 'oko'a o kekahī hi'ohi'ona 'āina kū i kekahī. E la'a ho'i me ka nani o Mauna Hā'upu.
- d. Kōkua i nā mea kuleana 'āina e ho'opa'a i ke kālā hā'awi, ka ho'olalelale 'auhau a me nā pono kālā 'ē a'e no ka ho'oponopono 'ana, ka mālama 'ana, a me ka hō'ike 'ana.
- e. E mālama i nā hi'ohi'ona 'āina o Māhā'ulepū a palekana i nā pu'u one ma ka pili kai, kahi o nā heana, a me ke ana Makauwahi a me ka heiau 'o Waiopili. E 'ae i ke komo 'ana o ka lehulehu i ka ho'olālā 'ana no Māhā'ulepū. E komo 'ia nō i loko o ka ho'olālā 'ana nā mana'o o nā kānaka a me nā 'ākena like 'ole, 'o ia ho'i: ka pono o mālama mau 'ana i nā 'āina o Māhā'ulepū no ka ho'omau 'ana i kona mau hi'ohi'ona ko'iko'i; ka makemake o ka mea nona ka 'āina e loa'a mai ke kālā me ka ho'opilikia 'ole 'ana i ko ka 'āina; ka pono o ke ala e hele ai kānaka i kahakai, a me ka hiki ke kūkulu i pāka (GP 2000).
- f. E mau ke kāko'o 'ana i ka mālama a ho'oponopono 'ana iā Kāneiolouma.
- g. E ho'oponopono a hana hou 'ia paha i ka Hale Wili Kōloa inā ia he mea kūpono.
- h. E mālama a ho'oponopono i ka lokoi'a o Nōmilu a me nā lua pa'akai a puni ia no ka ho'olako mea'ai a i 'ole paha ka huaka'i malihini me ka 'ae 'ana o ka mea nona ka 'āina. Ma kahi o kona 'ano he lokoi'a kūikawā, kaulana 'o Nōmilu i kona pa'akai a'ia'i.

- i. E mālama i nā hi'ohi'ona 'āina, nā mo'olelo, a me nā mea ho'ōnanea. 'O ia ho'i ka pu'u 'ākeke ma ka 'Āina Ho'olālā, a 'o ia nō ho'i kahi o nā lama kuhikuhi no nā lawai'a, kahi o ka heiau o Kukuiolono (luku 'ia), a he pāka a he wahi pā'ani kōlepa i kēia manawa.

##### 4.4.4.2 Ka Hō'ike a me ke A'o 'Ana

- a. E ho'olālā i mo'olelo no ka 'Āina Ho'olālā me ka ho'ohana 'ana i ka Palapala 'Āina Kumuwaiwai Ku'una ma Ki'i 3-1, e kālele ana i nā kumuwaiwai kūloheloh a mo'omeheu kūikawā ho'i ma ka 'āina a ho'ōpili i ia mau kumuwaiwai ma o nā hōailona.
- b. E ho'olālā i mo'olelo no ke ahupua'a a me nā kumuwaiwai ku'una. Ua waiwai nō paha ke awāwa 'o Wahiawa i li'iili'i iholo kona hehi 'ia 'ana ma mua o nā ahupua'a ma ka 'Āina Ho'olālā. Hiki ke ho'okomo 'ia nā kula mahi, nā papahana kahakai, nā Hale mahi kō, a me nā kaiaulu mahi. Aia nō he wahi me nā ki'i pōhaku ma ka Palapala Ho'opa'a Wahi Pana.
- c. E ho'olālā i mo'olelo no ke kula o Kōloa. Ua noi ka Palapala Ho'olālā 1978 Kōloa-Po'ipū-Kalāheo e ho'omāhuahua i ke kahawai Waikomo me ka ho'oponopono kā'e kahawai ma Taona Kōloa. Hiki ke ho'opa'a 'ia ia ho'oponopono 'ana me ka wehewehe kūpono 'ana i ka Papahana Kula o Kōloa, 'o ia ho'i he la'ana maika'i loa o ka 'onaehana hanawai ma mua o ka hiki 'ana mai o ka haole ma ke kahawai 'o Waikomo.
- d. E ho'olālā i mo'olelo no Māhā'ulepū. 'O ke kālā o Makauwahi, nā lo'i kalo, a me ka Hale Wili Kōloa no Ladd & Co., he mau mea kūikawā ia no nā mea akeakamai, nā mea pa'a mo'olelo, a me nā mea ho'ōnanea malihini. Pa'a ka Hale Wili Kōloa ma ka Palapala Pa'a Wahi Pana o ka Moku'āina a me ke Kaumoku'āina.
- e. E ho'olālā i mo'olelo no ka wā mahi kō. I kahua ho'i nā 'auwai a me ka Hale Wili Kōloa no ka wehewehe kūpono 'ana i ka mo'olelo o ka mahi kō ma ka 'Āina Ho'olālā. A hiki ho'i ke hō'ike i kahi o nā kaiaulu limahana.
- f. E hana i pūnaeweles o nā nānāina Hale o Kaua'i Hema mai nā mea 'ike 'ia ma Holo Holo Kōloa Scenic Byways. E paipai 'ia ia, 'o ia ka South Kaua'i Heritage Corridor.

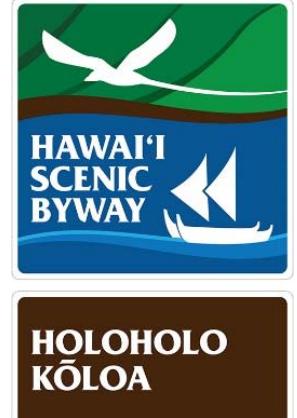
E ho'omoākāka i nā nānāina ma ka ho'olako 'ana i nā pono lako e like me nā wahi a me nā wahi kū i 'oi aku ka ho'ōnanea 'ana o nā mea holoholo ma kahi o nā ala nānāina.

##### 4.4.4.3 Nā Kūmole/Kuhikuhina

- a. Pāku'i i ka Palapala 'Āina GP Heritage Resources no Kōloa-Po'ipū-Kalāheo me ka Palapala 'Āina SKCP Points of Interest.
- b. Hana pū me ka Nature Conservancy a me e Ke'ena Kuleana Hawai'i no ka ho'omaika'i 'ana i nā palapala āna "Kapua'i Hawai'i" e hō'ike ana i nā wahi i loa'a paha nā kumuwaiwai a heana paha no ke kaohi 'ana i ka pilikia o ia mau wahi. Loa'a kēia mau palapala ma ka GIS.
- c. Hō'io i nā palapala Kapua'i Hawai'i me ke awāwa 'o Wahiawa (ma kahi o ke kahawai), nā 'oawa kūnihinī ma Kalāheo me Lāwa'i, ke ahupua'a 'o Kōloa, nā wahi pa'a i nā hi'ohi'ona hulikohehana, a me nā ana kahe pele puka i luna.
- d. E hō'ike i nā heana ma ka palapala Kapua'i Hawai'i. Aia paha ma nā pu'u one ma ka'e o Keoneloa (komohana paha), ka lae 'o Kāmala ma kahi o Kawaihoa, nā pu'u one ma mua o Hā'ula, ka ihona a me ke kaha o ke kahawai 'o Wahiawa, a me nā ana kahe pele a me nā pu'u one o ia wahi. 'O kekahī mau wahi ('āole 'o nā pu'u one o Keoneloa me Māhā'ulepū) i palapala 'ia nā heana 'o Kukui'ula me Kukuiolono.

##### 4.4.5 Nā Mea Pō'ino Kūloheloh a me ka Loli Aniau

He 'āina pā wale 'o Kaua'i i nā 'ino like 'ole, e la'a ho'i me ka hālanalana, nā makani pāhili, ke kai ho'e, ka 'a'ai 'āina pilikai, ka hāne'e 'āina a me ka hioli pōhaku. 'Oi pa'akikī ka wānana 'ana i ia mau mea, hiki ke mahu'i wale inā he mea hiki paha kekahī,



me ka nānā 'ana i nā mea o mua. No ka ho'omākaukau 'ana no ia mau mea, hō'ike 'ia nā ala ha'alele a me nā wahi ho'omalu ma Ki'i 4-32. Eia na'e, e ho'oulu i papa hana ho'omākaukau pōulia.

#### Ki'i 4-32: Nā Ala Ha'alele a me nā Hale Ho'omalu i ka Wā Pōulia

Hiki ke ho'oi i ka hopena o ka loli aniau a me nā pilikia na kānaka, akā, 'aole hiki ke alo aku. 'O nā pōulia ka pi'i kai, ka nele kahakai, ka haka pani wai, ka wā malo'o, ke ahi āhiu, he mau mea weliweli ia i kānaka a no laila he pono ka kia mana'o 'ana i ka maluhia a me ke olakino pono 'ana o kānaka i ka ho'ouluulu 'ana i papa hana no ia wahi a me ke kūkulu ho'omāhuahua 'ana i ka wā e hiki mai ana e like me ka 'olelo o ka Hawai'i State Planning Act Priority Guidelines.

I kāko'o ho'i nā palapala i pāku'i 'ia no ke kālai mau 'ana i hana e ho'oi loa ai i ka pilikia a me ka 'ino i ka 'aina ma o nā 'ino kūlohelohelohe a me nā 'ino o kānaka. Kōkua mai ho'i kēia mau kahua hana nui na ka KC3HA i ka holo mua:

1. I kōkua ho'i ka 'epukema aniau pa'a no ka ho'okele 'ana i nā mana'o.



2. E ho'opa'a i nā kahua hana no ka ho'oki loa 'ana i nā 'ino kapakai.
3. Hō'ole a ho'oki paha i ka pā 'ana o nā kumuawaiwai ma kapakai i ka nānā 'ana i nā maka'u i nā hale e kū nei a me nā mea e hiki mai ana.

#### 4.4.5.1 Palapala Ana 'Ino me ka Ho'ololi

- E hana pū me ke kaiaulu i kālailaina i ka pā 'ia 'ana o ka 'aina kapakai ma muli o ka loli aniau a me ka pi'i 'ana o ke kai (SLR) ma Kauai Hema me ke kaulona 'ana i nā lako ko'iko'i (alanui, wai, wailepo, uila, a me nā wahi hele kānaka; haukapila, hale kinai ahi, māka'i, kula) a me ka pā wale 'ia 'ana o nā kumuawaiwai o kahakai a me nā hōkele. E nānā pono i nā papa hana a pau i hiki no ka mālama pono 'ana i nā hopena o ka loli aniau a me ka SLR me ka 'aelike, ka ho'omalu, ka ho'oponopono, ka palekana, a me nā hā'ina. E la'a ho'i penei:
  - Pale kapakai, ho'onui 'ia na'e paha ka 'ai 'ia o ka 'aina
  - Ho'omalu hale, kūkulu ki'eki'e 'ia (hiki na'e ke hiolo i ka 'ino loa)
  - Ho'omamao 'ia nā hale mai kapakai, lilo na'e paha nā 'aina 'ona 'ia a pipi'i a'e paha ka waiwai o ka 'aina
  - Ho'one'e one, pilikia nō na'e inā 'aole pa'a ka papa hana.
- E ho'oulu i palapala ho'ololiloli no nā wahi me nā 'ino SLR he nui, a komo mai nā 'aina kapakai e pā wale ana i ka 'ai 'aina a me ka ha'ina nalu nui. E nānā 'ia nā ala ho'alo ma uka no nā 'aina e mana'o 'ia nei e pā 'ia ana i ka SLR a me kā hālanalana.
- E ho'omākaukau i kālailaina omo no nā wahi holo wai i ka loli aniau a me ka SLR, a ho'omāhuahua i nā paipu omomo a kūkulu 'ia ho'i e pili ai ia i nā ala a me nā pono e ho'oponopono 'ia ana.
- Lī'lī'i wale nō ka hālana wai a me ka loli 'ana o kapakai wahi a ka SLR a NOAA. 'O nā loli kapakai o ka wā ma mua, hō'ike mai nō ia i ka ho'omau 'ia 'ana paha o ka 'ai 'aina kapakai no ka hapanui o kēia mau wahi, a e ho'onui ana nō paha me ka ho'onui 'ia 'ana o ka SLR. Pono nā palapala e hō'ike pololei ana i ka loli 'ana o kapakai a me nā wahi pilikia i ka ha'ina nalu no ka mahu'i kūpono 'ana i ka hopena o ia mau 'ino i kapakai a me nā kumuawaiwai kahakai, i 'ike 'ole 'ia ho'i ma kā NOAA mau mea.
- E ho'oholo 'ia he palapala mālama kahakai (Kalana, DLNR, UH Sea Grant) no ka mālama kūpono 'ana i nā kumuawaiwai kahakai i ko'iko'i i ka 'oi'enehana malihini a me ke kaiaulu, e paipai ana ho'i i ka pale kahakai 'ana e like me ka ho'oponopono 'ana i kahakai.

#### 4.4.5.2 Ka Mākaukau No Ka Pōpilikia

- E ho'omākaukau 'ia he papa hana no ka wā pōpilikia no ka hiki 'ana mai o ka 'ino a me ka loli aniau. E ho'oulu 'ia i nā hanana a me nā mea e pale ana i nā lako pono a me nā wahi ko'iko'i. E ho'okomo 'ia nō ka ho'ona'auao 'ia 'ana o ka lehulehu no ka ho'onui 'ana i ka 'ike.
- E hana pū me nā hui o ke kaiaulu no ka mālama 'ana i nā papa e a'o ana i nā papa hana no ka ha'alele 'ana.
- E ho'oulu i papa hana ho'opalapala mākaukau no nā kaiaulu ma ke 'ano he papa hana alaka'i.
- E koi aku i nā hōkele e hana i nā papa hana mālama iā lākou iho i ka wā kai ho'ē e a makani pāhili paha. Aia ma kahi o 7,300 malihini e pono ana i kahi malu i ka wā makani pāhili i loko o ka 'Aina Ho'olālā. He pono ho'i ka mākaukau 'ana o nā hōkele i nā wahi maluhia a e kūkulu aku ho'i e like me ka pono nā kūlana o ka ho'alo hālanalana me ka ho'oki 'ana i nā pilikia.

#### 4.4.5.3 Ka Ho'oulu a me ke Kūkulu

- E ho'omāhuahua hou aku i nā kūlana no ka kūkulu 'ana a e paipai i ka pā wale 'ana.
- E ho'oulu ho'i i nā ho'oponopono ma loko o nā Ka'e Hālana VE e ho'ohāiki ana i ka pā 'ana paha a me ka pōpilikia ma muli o nā 'ino ma kahakai. E hō'ole aku i ke kūkulu pipi'i 'ana ma ka VE a me nā 'aina pā wale 'ē a'e paha.

- c. E hō'ole loa aku i nā mea kūkulu 'ia ma kapakai e like me nā paia pale kahakai. E hō'ole ho'i i ka ho'opa'a loa 'ana ma nā pu'uone pā 'ia. E ho'omāhua aku nō ho'i i nā mea kūlohelohi i hiki ke ho'ihō'i hou mai i ke kahakai, e la'a ho'i me nā pani kai, nā pale kai, me nā hāpapa ho'ohālike.
- d. E ho'ēmi mai i ka pilikia i ka wā ho'olālā pono lako.
- e. Kūkulu 'ia nā hale me ka pa'a loa i kahi o nā mea 'ino a i 'ole ho'i e ho'ololi e kū i ka SLR a 'ino kūlohelohi paha.
- f. E ho'opa'a i pu'u'ulu mālama kālau no nā ho'ēmi 'ana a ke kaiaulu, a e ho'okomo 'ia nā ho'ēmina i nā papa hana a pau e hiki mai ana.
- g. E ho'omoākāka aku me FEMA i nā 'ike pili hou ma ka'e VE e kū ana nō paha i ka palapala āna o ke kai ho'ēe, e me ka pi'ina kai.
- h. E ho'ēmi i ka ahi 'e'ena me nā lako kūkulu hale pale ahi i nā kūkulu hou, ke komo 'ana me ka noho 'ana ma nā 'aina nohona, a me ma hana a mālama 'ana i nā pale ahi ma nā 'aina nohona.
- i. E hana i nā kūlana alaka'i no ke kūkulu hou 'ana ma hope o nā 'ino a e 'ae aku i ka nānā hou 'ana i kōkua ho'i i ka ho'oka'ina 'ana i nā papa hana a me ke kōkua 'ana. Hui aku ke Kalana 'o Maui me Sea grant no ka ho'oulu 'ana i ia mau mea no ka mālama 'ana i nā kumuawai kahakai a me ka pale 'ana i nā kaiaulu ma kahakai. Mahu'i 'ia ka pa'a o kēlā hana i 2015.

#### **4.4.5.4 Nā Hale Ho'omalu a me ka Ha'alele 'Ana**

- a. E ho'olako i hale ho'omalu i lawa ka nui no nā kama'āina a me nā malihini. E ho'opa'a 'ia ka nui loa o kānaka i hiki ke komo i nā hale ho'omalu a me ke kuhi 'ana i ka nui o nā kama'āina a me nā malihini a e 'ike aku paha inā he pono ke kūkulu 'ana i nā mea pale. E ho'omau aku nō i ke kōkua no nā kānaka i pono ke kōkua a me nā hānaiāahu.
- b. E ho'oholo 'ia nā kula o Kōloa me Kalāheo, 'o lākou ka mua ma ke ka'ina o ke kōkua 'ana ma ka ho'omalu makani pāhili.
- c. E ho'opa'a 'ia nā hale ho'omalu pōpilikia no ke komohana (Kukui'ula 20-ac pāka), ka waena (Kula Kōloa me Pāka Knudsen), me ka hikina (Papa hana Gateway) no kahi ho'okū ka'a lako, nā wahi ho'opau pilikia, a me nā wahi ho'omaha.
- d. E ho'oholo i papa hana 'ae'opia no nā hōkele i ka wā r.....  
Kukui'ula Boat Harbor. Pāhili me ka hālanalana.
- e. E 'ike 'ike nā ala ha'alele a me kahi hui.
- f. E 'ike 'ia nā ala ha'alele i ka wā hiolo mauna, ka hālanalana, a me nā alaina alanui. 'ē a'e.

Identify emergency bypass routes during rockfall events, flooding, and other major roadway blockages.

#### **4.4.5.5 Ka Ho'ēmi**

- a. E ho'omau i ka ho'ano hou 'ana e like me ka mea e pono ai i ka Palapala Ho'ēmi 'Ino o Kaua'i a e mana'o aku i ka ho'oulu 'ana i palapala kiko'i no Kaua'i Hema e like me kā FEMA Whole Community Approach. E mana'o pū aku i ke kaiaulu a me ke kū 'ana i nā lula pekelala i pono ai 'o Kaua'i me Kaua'i Hema no ka 'ae 'ia 'ana ma ke kōkua 'ia e ka pekelala a me ka pu'u'ulu kālā ho'ēmi no nā pilikia 'ino 'ole, nā kālā ho'omākaukau, nā kāla ho'ēmi 'ino, nā kāla pale 'ino, nā kālā kōkua kaiaulu, nā kālā kōkua kuni ahi, a me ke kōkua ho'ēmi hālanalana i mālama 'ia ke ola a me ka lako i ka wā o ka pōpilikia (<https://www.fema.gov/hazard-mitigation-planning-resources#3>).
- b. E ho'oulu i pu'u kālā hānai kūloko no ka mālama kahakai. E mana'o aku i pu'u'ulu kālā 'ē a'e no ka mālama kahakai, i pili pū me nā kumuawai e like me CFD, TAT (Transient Accommodation Tax), a me ka TIF (Tax Increment Financing).
- c. E hana i 'āpono 'ana no ka mālama kahakai me na nānā hou 'ana (DLNR, ACOE, DOH, EPA).
- d. E 'ike 'ia a ho'ēmi 'ia ka hiolo mauna, keu aku ho'i ma ke Alanui Kaumuali'i ma kahi o Kalāheo me Lā'wa'i.
- e. E ho'opa'a i ka nānā pinepine 'ana a me ka mālama 'ana i nā waihona a me nā pale kai ma kahakai.

- f. E mālama i nā 'āina kūkulu 'ole 'ia e ho'ēmi ai i ka pilikia i ke ahi.
- g. E paipai a ho'olako i ka mālama kai 'ana a me ka ho'one'e one no nā 'āina kahakai e 'ai 'ia nei.
- h. E ho'ohana 'ia nā waihona wai a me nā pale wai e kinai ai i nāhi. Aia ma kahi o ka hapalua o nā waihona wai (hana 'ia e ka pale wai honua) ma ka 'Āina Ho'olālā. Me ko lākou nānā a mālama 'ia 'ana e like me nā pono o ka DLNR, he mau kū'ono'ono ia no ke kīnau ahi, ka holo wai, a me ka lawai'a malihini.

## **4.5 NĀ PĀKA A ME NĀ WAHI WALEA**

Aia he mau hale aupuni me nā hale pilikahi i 'ike 'ia ma ka palapala o ka Parks & Recreation ma Ki'i 4-1. 'Ike 'ia ma kahi Parks & Recreation i nā papa hana e alaka'i ana i ka mālama 'ana i ko Kaua'i Hema mau kumu pāka a me nā hana walea. E mana'o 'ia aku nō lākou me ka paipai 'ana o ko ke Kalana palapala *Papa Hana Ho'okō o Ka Ka Papa O Nā Pāka A Me Nā Hana Ho'onanea* (2013). Māka 'ia nā mana'o paipai o ia papa hana me ke kaha kuhi (\*).

#### **4.5.1 Nā Hale Pāka Me Nā Hale Hana Ho'onanea**

- a. \*E ho'oka'ina 'ia nā kumuawai ma ka Pāka Kahakai o Po'ipū me ka ho'akea 'ana i nā pāka kahakai a me nā hana ho'onanea ma kai, 'oiai kēia he pāka kahakai nui ma Kaua'i Hema a me kahi nui o ka hōokele waiwai no ka 'āina hōkele o Po'ipū. E ho'ano hou 'ia a mālama 'ia nā pu'u a me nā kahakai. E mālama 'ia he kālailaina o nā paipu omomo no ka wai hālana ma kahua ho'okū ka'a.
  - b. \*E ho'oponopono i nā pāka ma kaiahale: nā hale a me nā lako 'āina pā'ani keiki ma ka pāka 'o Waikomo; kahua pā'ani a me nā kumu lā'au ho'omalu ma ka pāka 'o Weliweli; me ka hale, kahi ho'omaha li'ili'i, me nā noho pāka ma ka pāka 'o 'Ele'ele Nani.
  - c. E ho'omāhua i nā lako ho'onanea me:
    - Nā māla o ka lehulehu
    - Nā 'āina pā'ani
    - Kahi holo papa huila/holo mokokaikala
    - Ho'ākea i ka mākeke mahi'ai
    - Ala holo paikikala
    - Kahua hō'ike'ike ma waho
    - Hale Ha'uki
    - Ki'owai 'au'au
    - Hale ho'opau pilikia aupuni me nā paipu wai inu ma nā pāka li'ili'i ma kaiahale e like me 'Ōma'o
    - Eia ho'i nā hale hou mua 10 no Kōloa mai ka papa hana pāka ma ka ko ka DPR *Papa Hana Ho'okō Papa o nā Pāka a me nā Hana Ho'onanea* o ke Kalana (2013)
  - 1. Ala Hele a Holo
  - 2. Wahi Pa'ina Pikiniki
  - 3. Kahakai Ho'onanea
  - 4. Kahi Pā'ani Keiki
  - 5. Nā Wahi Ho'omoana
  - 6. Nā Hale Ho'oiakaika Kino
  - 7. Pāka 'Ilio (kaula pa'a lima 'ole)
  - 8. Pāka Holo Papa Huila
  - 9. Pāka Ho'onanea
  - 10. Kahua Kenika
- d. \*E ho'okomo 'ia nā pono lako kahua pā'ani keiki ma ke Kikowaena Kūlanakauhale o Kalāheo.
  - e. \*E ho'ākea aku i ke Kikowaena Kūlanakauhale o Kōloa ma o ka ho'opale 'ia 'ana i kahi ma waena o 'elua hale e kū nei.
  - f. \*E ho'ākea a ho'omaika'i i kahi ho'okūka'a ma ka Pāka 'o Spouting Horn.

- g. E kāko'o i ka Māla Hō'ike'ike Meakanu o ke Aupuni i kona mau ho'ā'o nui e mālama pono i ke ka'e kūikawā o Lāwa'i Kai no ka mālama kumuawaiwai 'ana a me ka ho'omau 'ana i nā hana ho'onānea ma nā kūlana 2009 a me ka ho'akea 'ana i ka Māla o McBryde.
- h. E ho'olako i nā wahi hālāwai o ke kaiāulu, keu aku ho'i ma ke Kaiāulu Lehulehu 'o Po'ipū Gateway.
- i. No ka Pāka 20 'eka o Kōloa-Po'ipū, e ho'okomo i ka papahana kaiāulu o ka pāka. Ho'okomo i nā hale ha'uki a me nā kahua pā'ani e kāko'o ana i nā papa hana kūkulu ma laila. E ho'oholo aku ka palapala ho'olālā o ka pāka he ala hele kānaka/paikikala/kā'a e holo ana mai ka hikina a i ke komohana ma waena o ke Ala Po'ipū a me ke Ala Kalanikaumaka.
- j. Ma ka hui 'ana o ka 'ona 'aina, nā pakanā o ke kaiāulu, e like ho'i me ka National Park Service, nā 'aina no ka lehulehu, e nānā i nā waiwai kūlike no ka ho'okumu 'ana i pāka, ka mālama palapala ho'omalu, a me ka mālama 'ana i nā 'aina ho'omalu 'ia ma kahi o kahakai o Māha'ulepū.
- k. E hana pū me nā mea nona ka 'aina ma ka pilikai no ka 'ae like 'ana i ka lehulehu e holo i kai i nā wahi pā wale i nā mea kūlohelohelohe a me nā kumuawaiwai mo'omeheu me ka ho'opilikia 'ole 'ana aku.
- l. E ho'oulu i nā pāka hou no ka ho'olako 'ana i ka pono o nā kama'aina a me nā malihini. E 'imi e papa hana mālama no nā pāka hou me ka ho'ohui 'ana me ko ka lehulehu.
- m. E 'imi i nā koho no ka mālama 'ana i nā ala ho'opili a i 'ole ka loa'a 'ana o ka 'aina ma ke kumu kū'ai kūpono ma o nā Hui Kumuloa'aole e like me Hawaiian Islands Land Trust a me Trust for Public Lands no ka mālama 'ana i nā 'aina kahakai.

#### 4.5.2 Ka Mālama 'Ana

- a. E ho'oponopono i ka papa hana mālama i nā 'aina pāka a me nā lako pāka.
- b. \*E ho'oholo i ka ho'oponopono 'ana i ke Kikowaena Kūlanakauhale o Kalāheo a pau pū me nā kaupoku o ka Hale nui a me ka Hale ha'uki.
- c. \*E ho'omau i ke kāko'o 'ana i ka hui mālama mo'omeheu o Kāneiolouma.
- d. E ho'olako kālā i nā papahana mālama kahakai e like me ka mea e pono ai ma ka pāka kahakai 'o Po'ipū.
- e. E ho'oka'ina a ho'olako kālā i nā ho'oponopono ma'amau no nā lako pono.
- f. E paipai aku i papa hana mālama pāka a mālama ala paha. E 'ae mai i nā 'oihana kūloko a me nā hui kaiāulu.
- g. E 'imi aku i ha'awina kāko'o a pu'u kālā 'ē a'e paha no nā ho'oponopono pāka. E 'imi pū ho'i i uku kāko'o no ka 'oihana ho'okipa malihini no nā ala hehi malihini 'ia, nā kahakai, a me nā lako pono (e.g., HRS 198D TAT revenues).

#### 4.5.3 Ka 'Ae'Ana i Ka Lehulehu E Kā'alo

- a. E ho'omau i ka hehina alanui o ka lehulehu i kahakai a me nā wahi ho'onanea o uka.
- b. E hana i 'onaeala no ka lehulehu. E hui me nā kānaka nona ka 'aina no ka ho'opili ala 'ana ma o ka ho'apono 'ana i nā ala a me nā hola e hele ai.
- c. E ho'oholo paha iā Ala Hapa e ho'ololi 'ia a he ala lau banana. Me ke kāko'o 'ana i ka paipai ho'ona'auao 'ana e pili ana i ka mo'olelo Hawai'i, mai ke au kahiko a i ke au mahi kō, i ala ho'opili hele 'ole 'ia e nā ka'a ma waena o Po'ipū me Kōloa.
- d. E noi i ha'awina kālā no ka hana ala 'ana, ho'oulu 'ana, a me ka mālama 'ana ma Nā Ala Hele a me ka Hawai'i Tourism Authority.
- e. E hana pū me nā 'ona 'aina, nā hui kaiāulu, a me ka Public Access, Open Space, Natural Resources Preservation Fund Commission no ka nānā 'ana i ala aupuni pa'a a i ke kahakai 'o Māha'ulepū.

- f. E hana pū me nā 'ona 'aina no ka mālama 'ana i nā ala aupuni a i Māha'ulepū, 'o ia he koina.
- g. E nānā pono i ka holo 'ana i nā wahi kūpono no ka mālama pono 'ana i nā kumuawaiwai a me nā mea mo'omeheu o Māha'ulepū a no ka palekana ho'i o ka lehulehu.
- h. E nānā hou i nā mana'o mai ka Palapala Pāmakahiki no ka 'Aha o ke Kalana o Kaua'i a me Meia Carvalho mai ka Public Access, Open Space, Natural Resources Preservation Fund Commission.

#### 4.6 KA MAHI 'ANA

'Ike 'ia ma ka mahele o ka Mahi 'Ana i nā mana'o no ka ho'okele 'ana i ko ka papa hana mālama Kaua'i Hema mau kumuawaiwai no ka ho'omāhuahua 'ana i ka 'oihana waiwai a me ka mālama 'ana.

Aia nō nā mea pili i ka mahi 'ana ma nā wahi like 'ole o ka 'Āina Ho'olālā mai nā 'āpana 'aina mahi nui a i nā māla pilikino o nā Hale. 'O ka nui, aia nā kumuawaiwai mahi ma nā 'aina mahi a me nā 'aina ho'opulapula. Ma nā hālāwai lehulehu, hāpai 'ia nā mana'o e pili ana i nā mahi nui 'ino 'ana a me ka pono o nā kānāwai e kau palena ana i ka nui o ka mahi ma ke Kalana. I loko o ka 'ae 'ia 'ana o ia 'ano hanana ma lalo o ka mahele Mahi o ke Kalana, aia nō he mau lula o ke aupuni a me ka moku'aina e kū nei no ka nānā 'ana i nā hanana o kēlā me kēia lā o kēia 'ano hui 'oihana. 'O ka hō'ano hou Papa Hana Ho'okō 'ana (Ho'omaka 2015) ke nānā i nā papa hana mahi, nā kānāwai, a me nā hana pono no ka ho'okele 'ana i kēia mau mana'o a e paipai ho'i i papa hana no ka mokupuni a puni e ho'ēmi i kēia mau mana'o kū'ē. Ho'oponopono nō ke Ke'ena Mahi o ka Moku'aina i nā hanana mahi ma lalo o ka malu o HRS Title 11 a HAR Title 4 ho'i.

Hāpai nō ho'i ke kaiāulu e pili ana i ka ho'oholo mua 'ana a me ka ho'oponopono 'ana i nā 'ano mahi 'ana i kū i ka 'aina 'o Māha'ulepū, ma muli ho'i o ka pā wale o nā kumuawaiwai mo'omeheu a me ke 'ano o ka 'aina a puni kēia mau 'aina mahi.

E hō'ano hou 'ia ana ho'i e ke Kalana ke palapala IAL a me nā mana'o i ka LUC.

##### 4.6.1 Nā 'Āina Mahi a me Nā 'Āina Hāmama

- a. Mālama i nā 'aina mahi no ka mahi 'ana no ka ho'omau 'ana i ke 'ano hāmama a me ke 'ano o kēlā wahī.

##### 4.6.2 Ka Mahi 'Ai Kūloko 'Ana

- a. E kāko'o i ka mahi 'ai kūloko 'ana.
- b. E paipai i nā 'ano 'ai like 'ole.
- c. E kāko'o i nā mana'o a me ka ho'ona'auao 'ana no ka 'ai mai ka 'aina a hele pololei i ka pākaukau 'ai.
- d. E paipai i nā 'ai ho'ohui 'ole 'ia a me ka mahi hānai kūloko 'ana.

##### 4.6.3 Ho'okele Waiwai Kūloko

- a. E 'ae a kāko'o i ka loa'a 'ana mai o nā mea kāko'o 'enehana no nā mahi'ai hou, ka huaka'i 'ānia mahi, ka ho'oholo 'ai, ka ho'ohui 'ana, ka ha'awina kālā no ka mahi 'ai 'ana, nā hui hana hou, a me ka ikehu hānai kūloko.
- b. E ho'omau i ka 'imi 'ana i nā 'ano koho like 'ole no nā mahi'ai a me nā mea kūloko 'ē a'e e ho'ohana i nā lako pono like (e.g., holoi, kāka'ahi, ho'oukana, ha'aliu, mālama, etc.) a e 'ae i ke komo 'ana i nā 'ano mākeke like 'ole. E paipai i ka mahi 'ai kemikala 'ole 'ana a me ka ha'aliu 'ana. 'Ike ho'i iā Paukū 4.9 Industrial.
- c. E paipai i nā Hale 'aina, nā hōkele, a me nā wahi 'aina e kū'ai a ho'okomo i nā 'ai i ulu kūloko 'ia no ka holo mua 'ana i ka 'ae'ōia mea 'ai o Kaua'i Hema. E hōkona i nā mana'o 'aina a i pākaukau.
- d. E ho'okele i ka 'āpono 'ana o nā ke'ena hana 'āpono 'ia e ho'okā'ei i Kā'ei Enterprise. (e la'a ka ha'aliu mea kanu).

- e. E kāko'o i ka hana ho'okipa 'ohana mahi 'ai ma o ka ho'opa'a pono 'ana i nā lula o ia hana ho'okipa. Eia na'e, 'aole kāko'o 'ia nā TVR ma nā 'aina kā'ei mahi'ai ma waho o ka VDA.

#### 4.6.4 Nā 'Āina Mahi Ko'iko'i

- a. E ho'omau a pa'a nā IAL 'elima i koe mai ka 'umikūmākahi a me nā polokolamu pakele i 'ike 'ia ma ka HRS 205-46(c) ma lalo ho'i o nā papa hana o ke Kalana:
  - (1) Kōkua i ka loa'a 'ana o ka ha'awina kālā.
  - (2) Nā 'auhau kuleana 'aina e kāko'o ana i nā pono mahi 'ai, me nā kālailaina 'auhau kuleana 'aina ma ka waiwai o ka mahi
  - (3) Ka ho'olālā 'ana i nā ke'ena 'ohana mahi'ai, ka 'ohana mākeke, a me nā pū'ulu kālā
  - (4) Nā polokolamu 'ē a'e e paipai ana i ho'āhu kālā ma loko o nā 'ohana mahi'ai a me ka mālama 'aina mahi'ai 'ana, e la'a ho'i me ke kū'ai 'ana i nā kuleana ho'ouluulu.
  - (5) Ka ho'ona'auao 'ana i ka mahi'ai 'ana no nā mahi'ai hou; ho'omaika'i i ke akamai o nā mahi'ai a me nā limahana pili mahi 'ai ma o ke kumu a'o, nā pū'ulu hā'awi kālā aupuni a uku paha; a me ka ho'onui 'ana i ka ho'ihō'ina o ka mahi'ai ma o ka pāku'i 'ana i waiwai i ka ha'aliu mea'ai a me nā 'ano mea 'ē a'e.
- b. Eia ho'i, ho'omau a pa'a i nā mea nui 'elima i paipai 'ia a me nā hanana pili mai:
  - (1) E hana i polokolamu Kalana no nā kohu IAL, a kia aku i ka paipai 'ana i ka ho'ohua mea'ai no ka ho'onui 'ae'oia.
  - (2) E ho'okumu i pahuhopu kau emi no nā kohu Kalana
  - (3) E kāko'o i nā polokolamu alaka'i 'ia e nā mahi'ai a haku 'aina paha ma nā 'aina mahi i kū ho'i i ke kūlana #5 o ke Kānāwai Ho'oholo 183 (SLH 2005), "land with sufficient quantities of water to support viable agricultural production."
  - (4) E ho'ohana 'ia nā palapala 'aina IAL a me na lako pono i ka nānā 'ana i nā palapala noi huina mahi'ai-haku'aina a i 'ole paha no ka loiilo'i 'ana i nā 'aina ko'iko'i no ka ho'okohu 'ana o ka moku'aina a Kalana paha.
  - (5) E ana a ho'oholo 'ia nā loa'a a me nā mana'o o ke Kālailaina IAL ma ka Hō'ano Hou Papa Hana Ho'okō e hiki mai ana no ke Kalana 'o Kaua'i.
- c. U hāpai 'ia 'elua mau mana'o 'ē a'e ma ke Kālailaina IAL; ka noho 'aina mahi a me ka ho'ohui 'aina mahi 'ana, pili ho'i ia i ke kaulona 'ana aku i ke 'ano o ke kūkulu 'ana a me ke 'ano o ka hale ma nā 'aina mahi i kāko'o ho'i i kēia mau kaiāulu mahi 'ai. Wehewehe 'ia ma ia Kālailaina IAL ke 'ano o ka noho 'aina mahi "creates a walkable urban form surrounded by large-scale food production. This is different from ... 'Urban Agriculture', which cuts out various spots throughout an urban center (like empty parking lots) for community gardens and temporary farmers markets. [Andres] Duany explains that 'in a rural setting, ag urbanism means clustering buildings together' allowing farmers to be able to work large tracts of land and still pool resources and interact with other farmers and members of the community." The IAL Study suggests that "IAL and Open zones could serve as the larger, contiguous agricultural (and natural) zones which buffers and connects [the rural agricultural] communities...."

#### 4.7 NĀ HŌKELE A WAHI NOHO MALIHINI HĀNAI KŪLOKO

Hō'ike 'ia ma ka [aukū no nā hōkele a me nā wahī noho malihini hānai kūloko i nā papahana e kōkua ana i ke kaulona ulu waiwai i loko o ka 'ohana ho'okipa a me ka ho'oulu 'ana i wahī hānai kūloko ma Po'ipū. Aia ho'i nā kōkua hōkele a malihini 'ana ma ke kūlana o ka ho'ohana 'aina Hōkele. Eia na'e, aia nō nā hanana ho'okipa malihini ma 'ō a ma 'ane'i o ka 'Āina Ho'olālā ma nā kūlana 'aina like 'ole.

'O ka pahu hopu nui, 'o ia ho'i ka ho'oulu 'ana i ka 'aina hōkele o Po'ipū he wahī hānai kūloko no nā malihini – i loko i nā hanana ho'ona'auao hānai kūloko, nā loko pono a me nā papa hana, a me ke kāko'o 'ana i nā hui 'ohana kama'aina a me ka mahi 'ana, kauaku i ka ho'ohana li'il'i 'ana i nā ka'a, a e kau hanohano ana i ke kahua mo'olelo a me ka mo'omeheu i kū pa'a ai nā kaiāulu.



Aerial view of Kaua'i Coffee fields.

#### 4.7.1 Nā Hōkele Hānai Kūloko

- a. E ho'opa'a 'ia 'o Po'ipū, he wahī kipa malihini hānai kūloko kūikawā a puni ka honua. E hana pū me PBRA no ka wae 'ana a me ka ho'olaha 'ana iā Po'ipū ma ke 'ano he wahī hānai kūloko.
- b. E ho'onui aku i ka le'a o nā malihini ma ke kipa 'ana mai me nā lako a me nā papa hana kōkua 'aina e pōmaika'i pū ai nā kama'aina a me ka 'aina e like ho'i me nā wahī holo pū o nā ka'a a me nā paikikala, ka ho'onui 'ana i ka ho'opō'aiāpili 'ana a me ka ho'ēmi 'ōpala 'ana, ka ho'onui 'ana i nā ho'oponopono 'ana i nā wai a me ka ikehu, a me ke kopa mālama 'aina, nā wai ho'oma'ema'e, a me nā kopa 'ē a'e.
- c. E ho'ēmi i ka pono o nā ka'a pono'i a me nā kahua ho'okū ka'a ma o ka ho'omaika'i 'ana i nā ala hele wāwae a me nā ala holo paikikala a hikiaku ho'i i kūna ka'a 'ōhua.
- d. E mālama 'ia he wahī li'il'i wale nō ma ke 'ano he kahua ho'okū ka'a i mea e paipai aku ai i ke kalaiwa 'ole 'ana ma 'ō a ma 'ane'i ma ka 'Āina Ho'olālā.
- e. E ho'ohana i ka ikehu hānai iā ia iho no ka ho'ikehu 'ana i nā hōkele.
- f. E paipai aku i ke kalaiwa 'ana i nā ka'a uila i ho'ikehu 'ia me ka ikehu hānai iā ia iho.
- g. E kāko'o i ka ho'ohua mea'ai 'ana ma ka 'aina nei.

- h. E ho'olako 'ia ka likiki holo ka'a 'ohua ma loko o ke kumu kū'ai noho hōkele.
- i. E ho'olako i nā ka'a 'ohua e holo ana i ke kahua ho'olulu mokulele a ho'i mai.
- j. E ho'olako i polokolamu a pilina ma waena o nā wahi ho'olimalima ka'a a me nā hōkele.
- k. E ho'ano hou i ala holo kānaka a ala paikikala mai ke Ala Po'ipū Beach a i ke Ala Ho'one no ka ho'opili kūpono 'ana i ke kaiāulu.
- l. E nānā hou i ka pono a 'ole paha no nā hale ke'ena malihini me nā ho'oponopono 'ana i kēlā me kēia 'elima makahiki.



Kukui'ula Farmers Market.

#### 4.7.2 Nā Hana Ho'onanea Mālama 'Āina

- a. E ho'olako i kipa 'ana kūikawā e komo pū ana ka ho'ona'auao a me ka loina kūpono no ka ho'omalu a me ka mālama 'ana i ke 'ano o ka 'āina a me nā mo'omeheu o ne'i.
- b. E paipai i ka 'oihana ho'okipa hānai kūloko e like me ke kipa mālama 'āina, ke kipa mo'omeheu (Kāneiolouma), ke kipa 'epukema 'onaeao (Ke Ana me ka Lua o Makauwahi), ke kipa kōkua 'oihana, ke kipa mahi 'ai, ke kipa mālama ola, a me nā 'ano kipa like 'ole 'ē a'e.
- c. E ho'ēmi loa i ka pā wale mai o kaiāulu i nā malihini a me ko lākou mau hanana, a me ka pā wale ami o nā hale aupuni a me nā hale kaiāulu.
- d. E ho'onui i ka hana 'ana mai ka 'āina a i ke pākaukau mea 'ai
- e. E paipai i ka mālama ola a me ka mālama kino.
- f. E ho'onui loa aku i ka loa'a o nā kama'āina mai ka 'oihana ho'okipa a me ka 'ae 'ana i ke kū'ai emi no nā kama'āina i ka makahiki holo'oko'a.
- g. No nā malihinima Po'ipū, he koho maika'i nō paha kahi Ala Hapa hou no ka huaka'i māka'ika'i 'ana ma Kōloa Taona me ke ka'a 'ole. He ala ho'i ia e 'ike ai lākou i nā mo'olelo kahiko a me nā mo'olelo mahi kō o Kaua'i.
- h. Me nā hi'ohi'ona 'āina kūikawā e la'a ho'i me ko Kāneiolouma, ka Māla Hō'ike'ike Mea Kanu Kaumoku'āina a me ka Pāka 'o Spouting Horn, kūpono ho'i 'o Kukui'ula e paipai a'e ai i ka ho'okipa kōkua 'āina. He paipaina ho'i kahi ala holo paikikala i ka 'ume'ume 'ana i nā malihini e 'i'inī ana i ke kipa hānai kūloko.
- i. 'O nā luawai nui ma ka 'Āina Ho'olālā, he mau kumu ia no nā 'auwai a he ala ia no ka lawai'a a me nā holo moku.
- j. E ho'omau a mālama ho'i i ala hele a i Māhā'ulepē me ka mana'o ho'i na'e e ho'olako i wahi ho'onanea a ho'ona'auao no nā malihini e ho'ike ana i ka mo'olelo 'āina a me ka mo'olelo kanaka o ia wahi.

#### 4.8 'OI'ENEHANA

E like me ka mea i kākau 'ia ma ka Papa Hana Ho'okō 2000 "E ho'okumu i mau 'āina noho 'ole 'ia nona ke kā'ei ho'ohana 'āina he kālepa a he kāpili ho'i, e like me ka nui e hiki, ma mua o ka ho'āpono 'ana i nā kā'ei ho'ohana 'āina kālepa a kāpili hou." Eia na'e, 'aohe 'āina i ho'okā'ei 'ia he 'āina 'oi'enehana ma ka 'Āina Ho'olālā e kāko'o ana i nā 'āina mahi nui. Ma ka mo'olelo na'e,

'o ia ho'i ka maka mua o ka 'oi'enehana mahi kō ma ka hale wili kō o Kōloa. No laila, he mau papa hana a lula ho'i kēia e hō'ano hou ana i ia 'oi'enehana ma kahi o ka hale wili kō ma Taona Kōloa.

- a. E ho'okohu 'ia nā 'āina 'oi'enehana no ke kāko'o 'ana i ka ho'okā'ei hou 'ana i ka 'āina o ka hale wili kō o Kōloa. E kāko'o i ka 'oi'enehana ikehu, ka ha'aliu wai lepo, ka ha'aliu 'aina, a me nā 'ano 'oihana 'ē a'e.
- b. E kāko'o i nā kūkuluna pilikahi o ke kahua ho'oma'ema'e wai lepo no ka 'Āina Ho'olālā ma ke kikowaena 'oi'enehana ma kahi o ka hale wili kō. Ua hana 'ia nā kālailaina like 'ole e la'a me HRS Paukū 343 EIS ma ka makahiki 2009 no ia wahi a ua 'ae 'ia ka pani 'ia 'ana o nā hale ha'aliu li'il'i ma kēia wahi a me ka ho'ohāiki 'ana i ka ho'oma'ema'e wai 'ana. E mana'o a'e ho'i i ke kōkua 'ana i nā 'āina e kōkua 'ole 'ia nei.
- c. E no'ono'o a'e i nā 'ano 'enehana hou no ka ho'oma'ema'e wai 'ana a me ka ho'omānalo hou 'ana i ka wai. E ho'ohui pū 'ia ho'i nā hale ho'ona'auao a me nā wahi kū'ai ho'i no ka ho'onui 'ana i ka na'auao a me ka loa'a kālā.
- d. E mana'o a'e a e ho'okele aku i nā 'oihana ma ka ikehu hānai kūloko, ka loa'a kālā, ka mālama ola, nā ala kōkua 'āina, a me ka mālama 'āina LID.
- e. E 'ike 'ia nā 'oi'enehana a me nā mea e ho'ohaumia ana i ke ea i loko o nō o ka ho'oma'ema'e 'ia, ma nā 'āina e li'il'i loa ai ka pilikia i ka 'āina a me nā kānaka.
- f. E paipai i ka hana hou 'ia 'ana o ka hale wili kō o Kōloa ma kekahī 'ano e kōkua ai i ka ho'onui waiwai 'ana me ka pilikia 'ole i ke ola kino i nā mea E ma loko paha o nā hale kahiko.

#### 4.9 NĀ HALE A ME NA HALE AUPUNI

'O ke ke'ena mālama hale a Hale aupuni ho'i ka mea e ho'ike aku ana i nā papa hana e alaka'i ana i ka mālama 'ana o nā hale e kū nei a me nā mea e kūkulu 'ia ana. E ho'oka'ina 'ia nā CIP no ka ho'okō 'ana i nā pono, ka ho'oponopono mau 'ana e like me ka mea e pono ai nā hale a e ho'ole aku i nā alaina hana, a e kāko'i aku ho'i i ka pahu hopu o Kaua'i Hema.

Ua hui ke Kalana a me ke ke'ena hana o R.m. Towill no ka ho'omākaukau 'ana i kahi palapala ana hale ma ke 'ano he kālailaina e kāko'o ana i ka Papa Hana Ho'okō. Aia nō ho'i nā pono no ka ne'ena, ka wai, ka wai lepo, ka omo wai, a me ka wai lepo pa'a ma nā mana'o no 2035 a e kaulona ana ho'i ma nā wahi ulu nui e like me ka 'Āina Ho'olālā o Kaua'i Hema. E ho'olako ana i nā papa hana pā iki a kahiko 'ole ho'i e like me ka wai holo o ka wā 'ino.

E like me ka mea ma ka Paukū 4.1.5, kāko'o 'ia ka papa hana ho'olālā mea wai no ka 'Āina Ho'olālā holo'oko'a , a e ho'okomo 'ia ho'i, me ka palena 'ole na'e, i ka mana'o no ka wai kipa 'ia, nā lako pono, ke kūlana o ka wai, ke om wai, a me ka mālama 'ana. Aia nā lula ma lalo o HRS Mokuna 174C, a e ho'okele 'ia e ka CWRM. Aia kahi e mālama ai i ka wai no ke Kalana ma lalo o ka DOW wahi a ka lula kalana, a kuleana 'ia ka DOW e mālama i nā ho'olālā 'ana i pili i ka 'enehana wai holo.



Kōloa Mill Site.



#### 4.9.1 Nā Wai Mānalo

- E hō'ano hou i ka Palapala Ho'olalā Wai a ka DOW no nā 'enehana wai holo o Kalāheo, Lāwa'i-'Ōma'o, a me Kōloa-Po'ipū no ke ana 'ana i ka pono me ka 'ole o nā kumuawai e kū nei, ka mālama 'ana, a me ka ho'oholo 'ana e like me ka mea e kākō'o ana i nā mana'o no 2035, keu aku ho'i ma loko o nā SPA.
- E ho'olalā i nā hō'ano hou a me nā ho'oponopono 'ana me ka maika'i i mea e ho'ālo a ho'ēmi ho'i i nā alaina.
- E hana pū me nā mea ho'olalā no nā papa hana hou no ka ho'olako maika'i 'ana i nā mea e pono ai.
- E mālama i nā lua wai mānalo a me nā kumu wai mānalo 'ē a'e a pilikia 'ole.
- 

#### 4.9.2 Nā Wai Mānalo 'Ole

- E ho'okomo a paipai aku ho'i i ka ho'ohana kūpono 'ana i nā wai mānalo 'ole ma loko o ka 'Āina Ho'olalā.
- E ho'ouluulu i nā pono a me nā loin no ka hana 'ana i nā papahana a me nā lula no ka ho'oholo papa hana 'ana i kū i nā kānāwai o ka Papa Ola o ka Mokuāina (DOH).

#### 4.9.3 Ka Wai Lepo

- Kōkua a kākō'o i nā ha'ina no ka wai lepo a pau pū ho'i me kahi hale ho'oma'ema'e wai.
- E kākō'o i nā papa hana ho'oma'ema'e wai hou e ho'olako ana i ka wai maika'i no ka hānai 'āina, no ka wai ma nā ke'ena hana i inu 'ole 'ia, a me nā hana inu 'ole 'ē a'e.
- E hana pū me nā 'ohana a me nā wahi 'ohana ma Kōloa me Kalāheo no ka 'āpono 'ia 'ana me ka EPA me ka lua kūkae 'ole.
- E ho'olako i papa hana wai holo hou no kahi 'oi'enehana a i 'ole 'o ka hale mālama wai o ka 'āpana 'āina.
- E nānā a mālama i ke kūlana a me ka mana'o no mua no ka wai holo mai ka lua kūkae a i loko o ka wai kumu ma lalo o ka 'āina a kokoke ho'i i kahakai.

#### 4.9.4 Ka Holo 'Ana O Ka Wai

- E ho'omākaukau i palapala kālailai wai holo no ke kahakai 'o Po'ipū/Kāneiolouma a e noi i ala hou aku e ho'ēmi i ka wai hālana.
- E ho'okomo aku nō i nā pīpā alanui huku mālama 'āina a me nā māla omo ua ma ka'e alanui, ma nā pāka, a ma nā kahua ho'okū ka'a no ka omomo 'ana a me ke kālana 'ana i ka wai ua e holo ana no ka ho'onui 'ana i ka 'āina ho'ōnaninani 'ia.
- E ho'omau i ke koi 'ana i ka ho'ēmi wai holo 'ana ma nā kūkuluna hou.
- E koi aku i ka ho'okomo 'ana o nā mea hopu ua no ka wai mānalo 'ole no ka hana wai lā'au a me ka wai lua.
- E kākō'o i palapala ho'olalā hanana wai no ka 'Āina Ho'olalā hō'oko'a, e komo pū mai kahi mana'o o ka hikina i wai, ka hale, ke kūlana, me ke omo wai, a me ka mālama pono mau 'ana. Aia nā lula o ke kumu wai ma lalo o HRS Mokuna 174C, a ho'okele 'ia ma o ka CWRM. Aia ka ho'āhu wai a ho'oholo wai o ke Kālana ma lalo o ka DOW wahi a ka County Charter, a no DOW ke kuleana o ka ho'olalā hanana wai i no ka lehulehu.

#### 4.9.5 Ka 'Ōpala Pa'a

- E ho'omaka i papa hana ho'opō'aiāpili no ka ho'ēmi 'ana i ka 'ōpala a nā kama'āina, nā ke'ena 'oihana, a me ka 'oihana ho'okipa.
- E koi aku i ka 'oihana kūkulu e ho'ēmi i ka 'ōpala kūkulu a paipai a'e ho'i i ka hana 'ana i nā mea i ho'opō'aiāpili 'ia.
- Ho'omana'o aku i ka ha'aliu lau 'ana a me ka kākā'ahi 'ana i ka pulu ma loko o ka 'Āina Ho'olalā no ka ho'ēmi 'ana i ka lilo kālā o ka hele 'ana. E ho'oholo me nā hōkele a me nā mea mahi 'āina.
- E kākō'o i ka hana pulu 'ana i ke koena mea 'ai no ka hānai lepo 'ana.
- E kākō'o i hale hō'ilīli no ke koena mea 'ai o nā hale 'aina a me nā hōkele no ka hānai 'ana i nā 'ilihune.
- E ho'omau i ka 'imi 'ana i kahi 'ano ho'opō'aiāpili no ka lepo ikehu o Kaua'i.

#### 4.9.6 Ka Ikehу

- E ho'omau i ke kākō'o 'ana i ke au ikehu hānai kūloko.
- E paipai aku i ka ho'onui 'ana o nā kama'āina a me nā ke'ena 'oihana i ka hana kūpono 'ana i ka ikehu. E ho'omaka i polokolamu ho'ihō'i kālā no nā mea e hō'ano hou aku ana a ho'okomo paha i nā lako pono ikehu hānai kūloko.
- E paipai i ka ho'okomo 'ana i nā 'ūomo ikehu lā no ka ho'omehana 'ana i ka wai.

#### 4.9.7 Nā 'Enehana hou me nā Pōmaika'i Like 'Ole

- E paipai i nā hā'ina hou e ho'onui ana i ka pōmaika'i. E la'a ho'i pēnei:
  - Nā wahi ho'ikehu no nā ka'a uila e pili ana i kahi 'ūomo ikehu lā. Hiki ho'i ke holo nā ka'a 'ōhua uila i ho'ikehu 'ia ma ka ikehu lā.
  - He 'ōnaehana ho'ōnapele 'ai a lā'au malihini pilikia paha, no ka hana 'ana i ikehu e ho'ikehu ana i mea ho'omaika'i wai 'ino, pāku'i 'ia ho'i me ka 'ūomo ikehu lā.

#### 4.10 HO'OULU HO'OKELE WAIWAI

He ke'ena 'oihana nui loa ka 'āina hōkele o Po'ipū-Kukui'ula, keu aku ma kona 'ano he ho'okūkū no nā malihini pau pū me nā kahakai one, ke anilā mā'ama'ama, a me nā 'ano kai like 'ole. He mau kumuawaiwai 'ē a'e ho'i ko ka 'Āina Ho'olalā e like ho'i me nā 'Āina Mahi Ko'iko'i no ka hō'oko'a 'ana i ka ho'okele waiwai. Me ka 'ike 'ana i ka ikaika loa o ka 'Āina Ho'olalā ma muli o nā wahi waiwai, i mea hō'eleu ho'i kēia palapala ho'olalā ma kahi o ka ho'omāhuahua waiwai e ho'okele aku i ka ma'a mau, e ho'oholo a paipai i ka 'ōko'a, a e ho'oulu pono ma o ka lako pono i ka pōmaika'i o ke kaiāulu holōko'a.

#### 4.10.1 Ho'oponopono Kikowaena Taona

- E paipai i ka ho'oponopono 'ana i ke kikowaena taona o Kōloa me Kalāheo.
  - E ho'opa'a i nā lula ma o nā loina pa'a no ka ho'okele 'ana i nā hanana like 'ole ma ke kikowaena taona.
  - E alaka'i i ka ho'oulu hou 'ana me ka mālama 'ana i ke 'ano kahiko.
- E mana'o a'e paha i nā ala ho'okele waiwai hou (e.g., nā wahi ho'oponopono ke'ena 'oihana, wahi hale kaiāulu) no ka ho'okomo 'ana i nā ala a me nā papa hana mālama wai 'ino.
- E ho'olako i nā hale kū'ai emi no nā limahana e pa'a nei no ka 'ume'ume 'ana i nā 'oihana hou ('ike ia Pauku 4.2.3).
- E paipai i nā hale kū'ai emi me ka ho'ohiki 'ana i ka ho'oulu 'ana e 'ae ana i i ka pae 'ana mai lalo a i ka lōpū o nā 'ano hale like 'ole, me ke komo pū 'ana i kahi noho 'ohana li'ili'i i li'ili'i a i ke ke'ehina, nā kauhale hale 'u'uku, nā hale papalua, hale pāpa'i miliona, hale kaona, hale pāpa'i, a me nā hale nui.
- E mālama mau i mea no ka ho'ohālike 'ana i kākō'o ho'i i nā kama'āina a me nā malihini pū.

**4.10.2 Ke Komo 'Ana O Nā Mea Like 'Ole**

- a. Kāko'o, ho'okele, a 'ume'ume i ke komo 'ana o nā hui hana hou e kaulona a i ka ho'oponopono taona 'ana, ka mahi 'aina a me ka ho'okipa malihini hānai kūlōko.
- b. E ho'okele a kāko'o i 'onaehana mahi'ai me ka nui i hiki ke kā'ana aku i ka holoina, ka ha'aliuna, ke kākā'ahina, a me nā hale ho'opa'a no ka hiki i nā mahi'ai 'aina li'il'i ke hui a hana pū.
- c. E ho'okā'e hou 'ia aku  
Rezone to industrial an area in proximity to the farmlands that would allow other light industry, including alternative energy, to co-locate.
- d. Network with U.S. Department of Agriculture to access funding and technical support for cooperatives, agricultural facilities, and infrastructure.
- e. Enable agricultural tourism as a means for farmers to supplement their income and educational opportunity for residents and visitors to learn about local food production.
- f. Coordinate compatibility and marketing of agricultural tourism as a key component of the sustainable tourism theme for this resort area.
  - Encourage diverse marketing opportunities by coordinating food safety protocols, farm-to-table partnerships with resort restaurants, farmers markets;
- g. Assist with nonpoint source monitoring and compliance through NRCS conservation plans and regionally-supported water quality monitoring.
- h. Distinguish the Planning District as a place known for sustainable tourism (see Section 4.7).
  - i. Promote and expand the Heritage Corridor system, as described in Section 4.4.4, as an economic catalyst for the visitor and health/wellness industries.
  - j. Encourage business development in industries that would be desirable to attract to the Planning District (e.g., agriculture, green technologies, health and wellness, green infrastructure maintenance) through promotion of the Planning District as an enterprise zone (with associated tax and other incentives) and workforce development programs.

**4.10.3 Nā Pono O Nā Lako Māhele 'Āina**

- a. E kāko'o a e ho'olālā i nā pono no ka ho'oulu 'ana i 'onaehana wai holo ma kahi māhele 'aina, nā wai lepo a me nā lako wai holo a me nā lako 'ē a'e e pono ai.
- b. E kāko'o i papa hana mālama wai no ka 'Āina Ho'olālā holo'oko'a, ho'okomo 'ia ho'i, a palena 'ole 'ia na'e, i ka wai kipa 'ia, nā lako pono, ke kūlana o ka wai, ka wai holo, a me ka mālama 'ana. Aia nā lula ma lalo o HRS Mokuna 174C, a e ho'okele 'ia e ka CWRM. Aia kahi e mālama ai i ka wai no ke Kalana ma lalo o ka DOW wahi a ka lula kalana, a kuleana 'ia ka DOW e mālama i nā ho'olālā 'ana i pili i ka 'enehana wai holo.
- c. E paipai aku a e ho'onui aku i ka Heritage Scenic Byway a he mea le'ale'a, he mea maika'i no ke ola kino, he mea ho'ona'auao ho'i i nā mea kūlohelohelohe a mo'omeheu ma ka 'Āina Ho'olālā:
  - E ho'onui i ke Ala Nānā 'o Holo Holo Kōloa no nā ala holo ka'a a holo wāwae, i 'ona aupuni a 'ona kānaka 'ia (me nā ala ho'opili no ka lehulehu), e ho'opili ana i nā wahi makemake 'ia ma ka 'Āina Ho'olālā.

- E hana 'ia paha he Hui Kumuloa'a'ole no ka mālama 'ana i ia papa hana, noi kālā, hō'iliili kālā no ka ho'ohana 'ana i ka 'aina, a e ho'olilo aku i ua kālā nei no ka ho'omaika'i, ka ho'oponopono, a me ka mālama 'ana i ua mau papa hana nei.
- E kāko'o i ka ulu 'ana o kahi hana ola kino i pili i nā ala hele a me ke 'ano o ke anilā (e.g., ka ho'olimalima lāko pono, nā kānaka alaka'i ola kino, nā mea mālama no'ono'o, nā hale noho kūpuna, a me nā hale ho'ola no ka po'e hana lā'au 'ino).
- E mālama a ho'omaika'i a'e i ka mo'omeheu ma o ka ho'ona'auao 'ana e like me ka mea e pono ai no kēia 'aina e hilihia ana ho'i i nā ala hele wāwae, nā wahi pana 'ia, a me nā mo'olelo; e nānā i ka hopena.
- d. E ho'olālā i nā lako pono no ka wai lepo a me ka wai omo no ka ulu hou 'ana aku me ka ho'ēmi 'ana i ka pilikia i nā kahawai, nā wai holo ma lalo o ka 'aina a me nā kahakai:
  - E 'ae aku i ka 'aina 'ona 'ia e alaka'i e like me ko lākou hiki;
  - E kāko'o e like me ka mea e pono ai me nā kālā no nā ana māhele 'aina a i 'ole ho'i ka hā'awi kālā 'ana ('ike iā Paukū 6.3).

**4.10.4 Nā 'Oihana a me Nā Hale**

- a. E mana'o aku a e ho'okele aku ho'i i ke a'o 'ana i ka po'e no ka ahana a me ka ho'olako hale 'ana no ka hiki ke ho'oholo mua i ka 'onaehana kānaka hana i hiki ke loa'a mai ke kālā no ke ola kūpono 'ana a e ho'oholo nō ho'i i nā hale emi iki e kokoke ana i ko lākou mau hana.
- b. E ho'opa'a ho'i i nā 'oihana a me nā hale i hiki iā lākou ke kū'ai, e like me ka mea e pono ai no nā mea e loli nei a e kōkua i ka pilikia o ka noho 'āpu'epu'e 'ana.

## 5 LOINA HO'OPILI

### 5.1 MANA'O A ME KA MANA'OLANA

Ua paipai 'ia e nā lula kaiahale a me nā kā'e i mua i nā kaiahale kalaiwa 'ia a me nā 'ano mea i ku'ikoli aku i ke 'ano o Kaua'i. Ho'olako 'ia na'e ka Form-Based Code (FBC) i mana'o pa'a e ho'omau, ho'onui, a ho'ohana ana i "kaiahale hele wāwae 'ia" – 'o ia ho'i, 'o nā kaiahale o Kaua'i, 'olu'olu ia i ka holo wāwae 'ana o kānaka – i loko ho'i o ka mālama 'ana i ke 'ano kūlohelohelohe o Kaua'i, e ho'omaika'i i ke ola kino o kānaka, e mālama ana i nā wahi pā wale 'ia, a e paipai ho'i i ka ulu 'ana o ke kumu waiwai. Penei:

- Paipai, ho'omai, a ho'onui i ka papa hana o ke kaiaulu e hō'ike ana ho'i i ke 'ano kūikawā o Kaua'i a e kāko'o ana ho'i i nā 'ano nohona like 'ole o kānaka;
- E paipai i nā ho'ouluulu 'ana e kāko'o ana i ka maluhia, ka hele wāwae 'ana a me ke kūpa'a o ka holo kānaka 'ana i 'ō i 'ane'i;
- E paipai i ka ho'oulu 'ana i nā mea e kāko'o ana i ka maluhia, ka maiau, a me ka hiki ke hele ma nā 'ano like 'ole, pau pū me nā ka'a, ka holo wāwae, ka holo paikikala, e ho'ēmi ana i ka nui o nā ka'a ma o ia ho'olako 'ana i ka holowawae 'ana;
- Paipai i nā mea ola kino no ka po'e hele wāwae, a me nā ala maluhia no ka holo wāwae a paikikala ho'i, a me nā ho'okaika kino 'ē a'e;
- Ho'omau, mālama, a ho'onui i ka nānā 'ana o nā kaiaulu e kū nei;
- E kāko'o i nā kaiahale hele wāwae 'ia e kū nei ma o ka ho'olālā 'ana i nā ala kūpono a pa'a no ka holo wāwae a paikikala paha;
- Paipai i ka ho'opihapiha kūpono 'ana a me ka ho'oulu 'ana i nā 'āina no ka holo maluhia 'ana ma ke kaiahale;
- E paipai a e ho'opa'a i nā 'oihana kama'aina i loko o ka ho'olālā kaiaulu;
- E paipai i nā kaiahale me nā hale maika'e e kāko'o ana i nā nohona like 'ole;
- E ho'opa'a i ke 'ano o nā hale a pau ma ke 'ano e pono ai e ho'oulu i kaiaulu, 'a'ole wale nō 'o ka hale maika'i;
- E ho'opa'a i nā hale a me nā 'āina i hiki ke loli maika'i me ke ho'okele waiwai loli a me nā kānaka loli;
- E paipai i ke kūkulu 'ana i kū i ke kama'aina, ke anilā o ia wahi, ka mo'olelo, a me ke kūkuluna; a
- E mālama i nā kumu waiwai mo'olelo a me nā kumu waiwai mo'omeheu.

### 5.2 NĀ'ANO WAHI LIKE 'OLE

Minamina ho'i, 'a'ole nō e mau nei kekahī o nā wahi 'ano kahiko o ka Hawai'i ma hope o ke au mahi kō. 'O ke Ala Hapa a me Kāneiolouma na'e, nā wahi i kūkulu a mahi 'ole 'ia, aia nō ke waiho mau ala. Kū like na'e nā 'ano hale e kū nei ma Kaua'i Hema i ke 'ano o nā taona mahi kō i kūkulu 'ia ma kahi o nā hale wili kō a me nā kaiahale wili kō. Kūkulu 'ia kēia mau taona no ka hiki i nā kānaka ke holo wāwae. 'O nā kō na'e, 'o ia ho'i hā he mōlina e hō'ike ana i ka 'āina noho nui 'ia a me nā 'āina mahi a me nā 'āina waiho kūlohelohelohe ana (Kaua'i Smart Growth, 2012). 'O kēia pilina o ma waena o nā wahi kūkulu 'ia a me nā 'āina e waiho ana, he kōkua ho'i ia i ka hō'ike pololei 'ana i ke 'ano kua'aina o Kaua'i.

I loko nō o ka loli 'ana o ke kūkulu kaiaulu i mea holo ka'a a emi mai ka holo wāwae 'ana i nā pā anahulu makahiki ua pau ka 'ike le'a 'ia i ka 'oko'a o ia mau wahi. He ma'a mau ka huaka'i ka'a 'ana no ka hele 'ana i nā 'āina kūkulu 'ia ma Kaua'i. 'O kēia 'ano kūkuluna holo ka'a 'ana, ho'ēmi ho'i ia i ke 'ano kua'aina a me ke 'ano mahi 'ai me ke kōkua 'ole 'ana i ke 'ano o kēia moku.

No ka ho'oko'a 'ana i nā wahi ma ke 'ano he 'āina kalaiwa loko, he 'āina kalaiwa mamao a he 'āina hele wāwae, ho'okohu 'ia he 'ewalu 'ano wahi ma Kaua'i. Kōkua ia mau 'ano wahi i ka ho'okohu 'ana i nā wahi e pono ai ke kūkulu 'ana. 'Ehā 'ano wahi kalaiwa, a 'ehā ho'i 'ano wahi hele wāwae.

#### 5.2.1 Nā Wahi Kalaiwa

'O nā wahi kalaiwa nā wahi e kau nui ai nā kānaka e holo ma o ke ka'a no ka hele 'ana i ka hana, a i 'ole kahi 'ē a'e paha, a me ka hele 'ana i 'ō i 'ane'i no ke kū'ai 'ana a me nā hana 'ē a'e. Aia nō paha kekahī mau wahi i hiki ke hele wāwae 'ia a i 'ole e holo paikikala no ka hana walea, akā 'a'ole nō nua nā lako a me nā ala pili mai, no laila 'a'ole ia he mea 'olu'olu 'o ka hele wāwae a hele paikikala 'ana no ka huaka'i 'ana no nā hana ma'āmau o kēlā la kēia lā.

Ho'oholo 'ia ke 'ano o ka ho'olālā a me ka ho'oulu 'ana i kēia mau wahi ma luna o ka pono kalaiwa. Ho'oka'awale 'ia nā 'āina ma ke 'ano o kona ho'ohana 'ia 'ana e ho'olō'ihi ana i ka mamao ma waena o ia mau mea e koi ana ho'i i ke kalaiwa 'ana no ka holo 'ana a ho'i mai. 'O nā wahi kalaiwa, 'o ia ho'i ka 'āina kaiahale, nā 'āina 'oihana, nā awa kū moku/kahua ho'olulu mokulele/'oi'enehana kukui, a me nā 'āina hōkele.

- **'Āina Kaiahale:** Nā wahi noho 'ia e nā 'ohana li'il'i i a 'a'ole ho'i hiki ke hele wāwae i kahi hale kū'ai a mea 'ē a'e paha. Nele nā alanui i nā ala hele wāwae 'ole a mumuku nā ala. Mamao ho'i nā Hale nui a me nā kaiahale mai ke alanui.
- **'Āina 'Oihana:** Nā wahi no kahi kū'ai, e like me nā kahua kū'ai hele a me nā Hale ke'ena paha. Ka'awale nā Hale nui a me ke kikowaena 'oihana mai ke alanui a me ke ala hele wāwae, a ma'āmau ho'i ka hiki 'ana i laila ma o ke ka'a.
- **Awa kū moku/Kahua Ho'olulu Mokulele/'Oi'enehana kukui:** Nā wahi i ho'ohana kiko'i 'ia, e like me ka holo kalaka nui 'ia a i 'ole ka halihali ukana nui. He mau Hale nunui loa a i 'ole nā 'āina kūkulu nui 'ia, e la'a ho'i me nā ala ku'u mokulele, nā 'āina ho'āhu ukana a me nā wahi waiho ana hele 'ole 'ia e ka lehulehu.
- **'Āina Hōkele:** Nā wahi i kūkulu 'ia no nā malihini, i mālama kūloko 'ia a ho'olako 'ia no ka noho pa'a 'ana i laila a i 'ole ma kai aku. 'Olu'olu ia i ka holo ka'a 'ana me nā kahua ho'okū ka'a nui a me ka hele wāwae li'il'i 'ana no ka pili maika'i 'ole i nā 'āina kokoke mai.

#### 5.2.2 Nā Wahi Hele Wāwae

'O nā wahi hele wāwae nā wahi i hiki ke hele wāwae aku, holo paikikala, a kau ka'a 'ōhua paha no ka ho'okō 'ana i nā hana like 'ole. Hiki nō ke holo ka'a, eia na'e 'a'ole ia he koina no ka ho'okō 'ana.

Kūkulu 'ia ia mau wahi hele wāwae me kona waiho 'ia 'ana i hiki i kānaka ke noho a ho'okō i kāna mau hana a pau me ke ka'a 'ole, 'olu'olu ho'i ka hele wāwae 'ana a holo paikikala paha, a me ke kokoke i ke kau ka'a 'ōhua. Kāko'o nui 'ia kēia mau wahi hele wāwae ma o nā ala e ho'opili ana, nā ala puni 'ia i ka lā'au, he mau Hale o nā 'ano like 'ole a me nā 'ano ke'ena hana a Hale paha kokoke loa. He mea nui ho'i ke kāko'o o ka holo ka'a 'ōhua 'ana.



Aia he 'ehā 'ano wahi hele wāwae, wahi a ke 'ano o ka nohona kahiko a me nā wahi e kū nei ma Kaua'i, e ho'olako ana i ka'ina hana no ka ho'okumu 'ana i ka pilina o nā wahi waiho wale aku ana a me nā wahi kūkulu 'ia ma kēia mokupuni. Like kēia mau wahi me nā 'ano kaiahale kahiko o Kaua'i, a me nā wahi e kū nei. I loko ho'i o ia mau wahi hele wāwae nā huina alanui, nā kaiahale li'il'i, nā kaiahale nui, a me ka taona.

- **Nā Huina Alanui:** Aia ho'i ma ka hui 'ana o 'elua a 'oi mau ala, he wahi ia e mālama 'ia ai nā 'ano hale kū'ai a ke'ena 'ē a'e paha e ho'olako ana i nā pono o nā kānaka ma kēia 'ano he kua'aina; loli koke aku ke 'ano ma kahi o nā huina alanui i nā wahi noho kama'aina kua'aina a i 'ole ho'i ka 'aina waiho wale. He la'ana maika'i ho'o 'o Kapaia.
- **Kaiahale Li'il'i:** Aia ma nā wahi i kūkulu hale li'il'i 'ia, aia nā kaiahale li'il'i ma ka'e o ka 'aina kūkulu nui 'ia. Aia ho'i he ala nui me nā wahi noho 'ia a puni; loli koke ho'i ia a komo i nā 'aina mahi a i 'ole nā 'aina waiho wale. He la'ana maika'i 'o 'Oma'o a me Lāwa'i.
- **Kaiahale Nui:** Aia ma nā wahi i kūkulu nui 'ia, aia ho'i i ke kaiahale nui nā moku hale e ho'okō ana i nā pono o nā kaiahale nui. Aia paha ia ma ka hui o nā kaiahale a i 'ole paha ma kahi waena o nā kaiahale. He la'ana maika'o 'o Kōloa a me Kalāheo.
- **Taona:** Aia ma nā wahi kūkulu nui 'ia, he mau moku kaiahale e kōkua ana i ka mea nui, nui nā wahi me nā 'ano hana like 'ole. 'O nā hale ma'amau ma nā taona, he mau papahele ho'i, 'ehā a 'oi paha. He mea nui nā Taona nui. E la'a ho'i me Līhu'e, ka mea nui ho'okahi ma ka mokupuni.

'O ke kahua kūkulu o nā wahi like 'ole ma Kaua'i, 'o ia ho'i kahi e hele wāwae ai a puni ke kikowaena kūlana kauhale, ma laila ho'i nā ke'ena noho, nā ke'ena hana, nā wahi kū'ai, a'o, a holoholo ho'i me ka liuliu 'ole. Oiai aia nā wahi li'il'i e like me nā huina alanui ma loko o nā wahi e hele wāwae ai a puni ke kikowaena kūlana kauhale pilikahi, 'o nā mea nui a'e, e like me nā taona, he mau mea ko lākou.

#### 5.2.2.1 Nā Mea No Nā Wahi Hele Wāwae

Hō'oko'a 'ia nā wahi hele wāwae ma Kaua'i ma o ka nui, ka nui o ke kūkulu 'ia 'ana, ke 'ano o ka ho'ohana 'ana i nā 'aina, a me nā hale ka'awale a pili paha. 'O ka ma'a mau, 'oiaku ka li'il'i a kua'aina o nā huina alanui a me nā kaiahale li'il'i, me kahi mau lula o ka ho'ohana 'aina 'ana a ka'awale ho'i nā hale. Ma ka 'eko'a, Nui a kūkulu nui 'ia ho'i nā kaiahale nui a me nā taona, me nā 'ano ho'ohana 'aina 'ana he nui a me nā hale pili ho'i.

I loko nō o ke 'ano o nā huina alanui a me nā kaiahale li'il'i, 'o ia ho'i he kūlanakauhale li'il'i, nui nā mea ma nā taona a me nā kaiahale nui, a he mau kaiahale noho kona. Hiki ho'i ke ho'omāhele 'ia nā kaiahale noho i 'ekolu mea: "kikowaena kūlanakauhale" a i 'ole ke ala nui o ka taona, "kahi laulā o ke kūlanakauhale," a me "ke ka'e kūlanakauhale." He kōkua ia ho'omāhele 'ana i ka 'ika 'ana i nā wahi kūpono no nā kūkuluna like 'ole ma ia mau wahi.

'O nā kikowaena kūlanakauhale - 'o ia ho'i nā ala nui - nā mea kūpono no nā hale nui no nā 'ano hana like 'ole. 'O nā mea i ho'okohu 'ia a he wahi laulā o ke kūlanakauhale he mau mea i 'ano li'il'i maila ka nui o kānaka, me kekahi mau ho'ohana 'ia 'ana no nā hale o nā kama'aina i noho ho'okahi a 'ohana li'il'i paha. 'O ka'e o ke kūlanakauhale nā wahi i li'il'i ai nā kānaka a he mau hale noho 'ohana li'il'i wale nō ko laila. Hiki ke hele wāwae 'ia nā wahi a pau ma ke kaiahale a lawa no nā hana like 'ole.

'O ka mana'o nui ho'i o nā 'ano wahi, mai ka laulā loa a i ke kiko'i loa o nā mea ma ke kūlanakauhale, he kōkua ia i ka hō'ike 'ana i ka papa hana i nā kā'ei hui wahi a ka Loina Ho'opili.

### 5.3 NĀ WAHI MA KAUAI HEMA

Ua kālailai 'ia nā wahi a pau ma Kaua'i Hema e ke kime o ka papa hana a me ka CAC a ua ho'onoho 'ia i ko lākou mau 'ano pono'i. 'Ike 'ia ma Ki'i 5-1 ke kālailaina mua i hō'ano hou 'ia i nā 'ano wahi a nā 'olelo kia mana'o i hana 'ia e kēla me kēia kaiāulu. Ua ho'opili 'ia kēia ho'okohu 'ana me ko ka Palapala Ho'ohana 'Aina (Ki'i 4-1) a me nā kā'ei ho'opili no ka SPAs. Hō'ike pū mai nā 'ano wahi i ka pilina o nā wahi like 'ole i kekahi wahi ma ia 'āpana 'aina.

#### 5.3.1 Kalāheo

'O Kalāheo ke kaiāulu nui loa ma ua i ka 'Āina Ho'olālā, 'oki waena 'ia e ke Alanui Kaumuali'i me nā kaiahala e paukū ana i ka 'aina pu'upu'u i ka 'ākau a me ka hema. Ho'okohu 'ia paha 'o Kalāheo he Kaiahale Li'il'i ma muli o kona nui 'ole a me ka nui o nā hale kū'ai a me ka ho'ohana 'ia 'ana e ka po'e. A hala kahi wā lō'ihi, hiki ke ulu hou aku 'o Kalāheo a he Kaiahale Nui ma muli o ke 'ano o ka 'aina e kohu ana i nā hale me nā papahele he nui. Eia na'e, 'a'ole pono ka 'ae 'ana i nā mana'o a me nā pilikia no ka mālama wai lepo a me ka kau ka'a 'ana no ke kāko'o 'ana i ia ho'oulu 'ana.

### Palette of Place Types

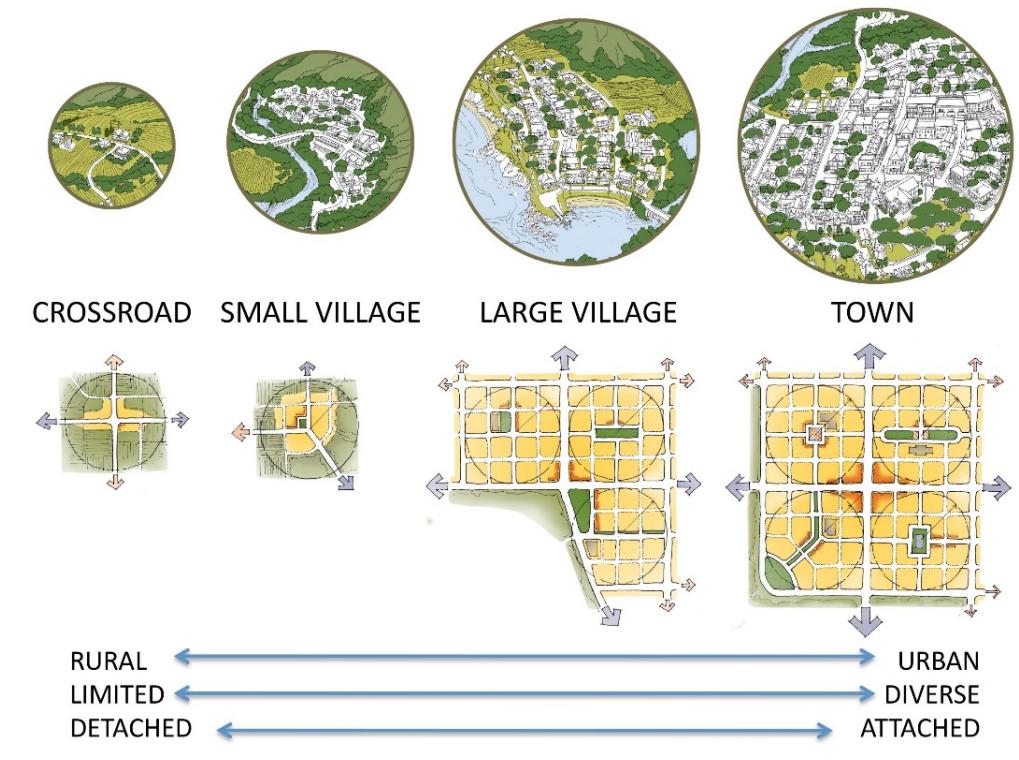
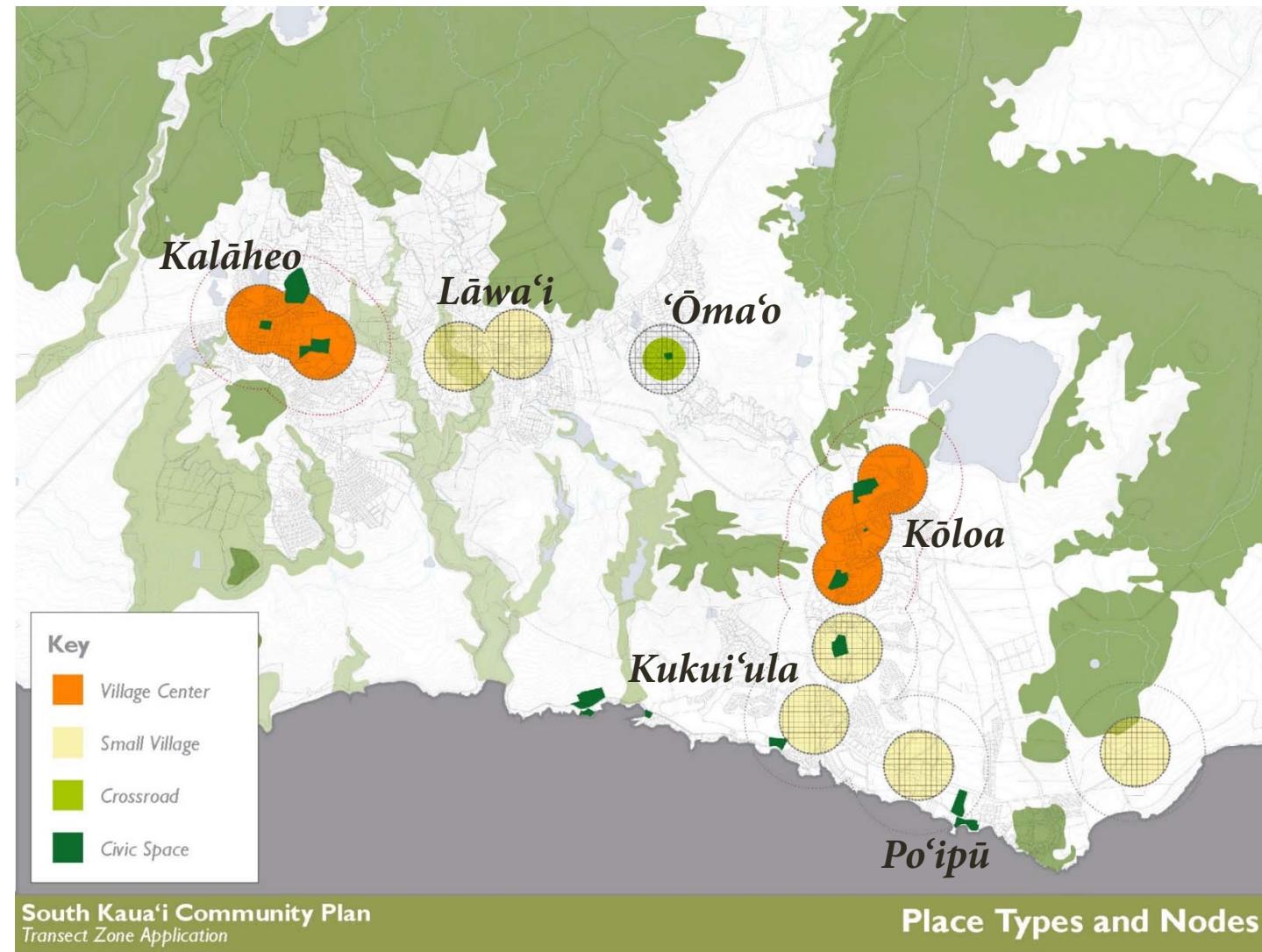


Figure 5-1: South Kauā'i Place Types Analysis



### 5.3.2 Kōloa

'O kahi o ka hale wili kō mua loa ma Hawai'i, 'o Kōloa ho'i, he kaiahale li'ili'i a kū'ono'ono i kula ma waena o nā kaiahale ma uka o ke Alanui Kaumuali'i a me nā kaiahale malihini a me nā hōkele ma kai. Hō'olako ho'i nā hale kū'ai ma ke ala nui i nā kama'āina a me nā malihini. Hiki ke ho'okohu 'ia 'o Kōloa he Kaiahale Nui ma muli o ka nui o nā kānaka, ka nui o ke kikowaena kū'ai, a me ke kūlana ma ia 'āpana 'āina.

### 5.3.3 Kukui'ula

I loko nō o ke 'ano o Kukui'ula, 'a'ole ia he nui ka mo'olelo no ke kūkulu 'ana, aia ke ulu a'e nei me nā mea 'ano ko'iko'i: Spouting Horn, Ke awa kū moku li'i o Kukui'ula, a me Ka Māla Hō'ike'ike Mea Kanu o ke aupuni, me ke kahakai nani ho'i. 'O ke kia mana'o ia o ke kūkulu hou 'ana, me nā 'ano kahua kū'ai hele, a me nā wahi no nā kaiahale nui a'e a puni kahi kahua kolepa.

### 5.3.4 Lāwa'i

He kaiahale li'ili'i 'o Lāwa'i ma uka, ma nā 'ao'ao 'elua o kahi kike'ekē'e o ke Alanui Kaumuali'i, me nā huku 'elua i like kona nui me ka huina alanui – ma kahi o ke Ala Kōloa ma ke Ala Lauoho, ma kahi o ka hale ho'okomo kini a ma ke alanui ma ke Ala Aulima, kahi o ka hale leka a me ka mākeke. I loko nō o kona kino nui, kiko'i loa ka moe 'ana o ke kaiahale o Lāwa'i a palena 'ia e nā kumu wai a me nā pu'u. Hiki ke ho'okohu 'ia 'o Lāwa'i he huina alanui kua'aina ma muli o ka li'ili'i o nā hale kū'ai a me nā wahi hana walea ma ke kikowaena a me nā kaiahale a me nā pu'u a puni.

### 5.3.5 'Ōma'o

He mau kaiahale li'ili'i ma uka 'o 'Ōma'o a hiki aku i ka hema mai ke Alanui Kaumuali'i. 'A'oe wahi huku kū'ai akā he kaiahale 'ano nui, li'ili'i ka pilina alanui, ka nui, a me ka ho'oulu i hiki i ka wā ma mua ma o nā pu'u a me ke 'ano o ka 'āina. He kaiahale noho li'ili'i 'o 'Ōma'o me kahi pāka li'ili'i.

### 5.3.6 Po'ipū

He huina 'o Po'ipū o nā kūkuluna ma kai a me nā wahi mo'olelo 'ia no nā hōkele a me nā hana malihini ma kahakai hema o Kauā'i. He mau kahaone lō'ihi, e like me ka Pāka Kahakai o Po'ipū, a kūkulu nui 'ia me ka 'auna hōkele a hale noho malihini ma waena o kahaone a me ke Ala Po'ipū. Hiki ke ho'okohu 'ia 'o Po'ipū he wahi Hōkele. He mau ala hele wāwae a holo paikikala paha, ma hope aku, hiki ke ho'ololi aku iā Po'ipū a he wahi hele wāwae nui 'ia.

## 5.4 TRANSECTS AND ZONING

### 5.4.1 Using Zoning to Reinforce Place

FBCs provide an alternative approach to Euclidean zoning that emphasizes physical form, rather than separation of uses. They have been utilized to reinforce walkable, sustainable, mixed-use environments that build upon the existing character of places. The nonprofit Form-Based Codes Institute defines FBCs as follows:

*"Form-Based Codes foster predictable built results and a high-quality public realm by using physical form (rather than separation of use) as the organizing principle for the code. These codes are adopted into city or county law as regulations, not mere guidelines. Form-Based Codes are an alternative to conventional zoning."*

The transect is the organizing principle of FBCs, which regulates the built environment based on its location within the natural to urban spectrum. For the purposes of the SKCP, the transect zones are limited to the rural-to-urban spectrum as there is little need to dictate built form in the natural and agricultural zones (see next page, The Rural-to-Urban Transect sidebar).

Modern Form-Based Codes were initially utilized in the 1980s and 1990s as a means to implement innovative development patterns that would otherwise not have been feasible under conventional zoning. Since then interest and knowledge of form-based coding has increased rapidly, with the advent of the SmartCode, an open-source coding template that was made available by Duany, Plater Zyberk & Company in 2003, growth and development of professional FBC practitioners, the founding of the Form-Based Codes Institute in 2004, and several major publications supporting their development. As of November 2012, there were more than 250 adopted FBCs of different variety and scope across the country (Borys and Talen), including applications in Hawai'i. These include FBCs to implement infill and redevelopment (e.g., Mauka Area Rules for Kaka'ako in Honolulu, Oahu, 2011) as well as FBCs regulating greenfield development (e.g., Honokōhau Village in Kona, Hawai'i, 2008).

It is also important to note that while FBCs primarily regulate an intended physical form, they also regulate use secondarily. FBCs often allow a range of uses that are carefully chosen to maximize compatibility between uses and the intended physical form of the zone. The use tables are simplified and categorized by use type, and clearly defined, to allow a greater degree of administrative decision-making related to particular uses.

#### 5.4.2 Ka Ho'okino 'Ana

Nā mahele o ke 'ano o ka wahi me nā ho'olilo ho'ohana 'āina, ua pili pono aku lākou i nā kā'ei kālailai a me ka ho'okino 'ana i ka Lula Kālele-Kinona e like me ka mea e hō'ike 'ia nei ma Ki'i 5-2. Ua wae 'ia kēia mau pilina ma muli o nā mea i 'ike 'ia ma loko o ka wā o ka ho'olālā 'ana o ke kaiāulu.