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**County of Hawai'i
PLANNING DEPARTMENT**

PUNA COMMUNITY DEVELOPMENT PLAN ACTION COMMITTEE

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May 13, 2014

Duane Kanuha, Director
Planning Department
101 Pauahi Street, Suite 3
Hilo, HI 96720

Subject: Report and Recommendations on Roadway Connectivity Locations in Puna

Aloha Director Kanuha,

The Action Committee of the Puna Community Development Plan, respectfully requests that the enclosed report from the Connectivity and Emergency Response Subcommittee (CERS) of the Puna CDP Action Committee be forwarded to the Department of Public Works Director, Warren Lee for consideration and appropriate follow-up. We further request that this report, which was unanimously approved by all nine members of the PCDP AC at our May 13, 2014 meeting, be copied to each of the four members of the Hawai'i County Council for their information.

Mahalo for your time, understanding and support of the Puna community.

Sincerely,

Patti Pinto
Chair, PCDP AC

May 13, 2014

To: Puna Community Development Plan (PCDP) Action Committee, Chair Patti Pinto

From: PCDP Connectivity and Emergency Response Subcommittee (CERS), Chair Marlene Hapai

Subject: Request for Approval and Forwarding of the PCDP CERS Report on
Prioritized Connectivity Locations, May 2014

Emergency Response Subcommittee of the Puna Community Development Plan Connectivity Report on Prioritized Connectivity Locations, May 2014

Background and Goals

Since January 2013, the PCDP Connectivity and Emergency Response Subcommittee (CERS) has been collecting recommendations from the Puna community related to establishing emergency connectivity locations. Through mapping activities at the August 2013 Puna Regional Emergency Preparedness Fair, PREP Fair training workshops, surveys, community presentations, and resident testimony, CERS has identified 48 suggested Connectivity Locations (CLs). All of these efforts were guided by CERS goals, approved by the PCDP AC on February 12, 2013, which included the following:

1. Highest priority – promote health and safety: Establish a series of connectivity locations between Puna subdivisions and surrounding areas.
2. Desired Outcome: Identify and develop a combination of road connections of various types, agreeable to residents that enable safe, indirect, calm passage, as well as provide more efficient access for emergency traffic.

Primary Partnerships, Collaborative Activities, and Accomplishments

CERS created extensive partnerships and collaborative activities, resulting in the following accomplishments:

1. Developed an ongoing partnership with Civil Defense
2. Created and implemented Puna's first PREP Fair (August 2013), which presented 1500-2000 participants with interactive exhibits, presentations, and demonstrations, including major topics of: Emergency Routes, Centers/Shelters, Planning, Communications, Security, Services, and Sustainability
3. Used the PREP Fair to
 - Gather suggestions from the community via mapping activities that asked Puna residents to identify routes, including Connectivity Locations, that might be used in case of an emergency
 - Gather information via surveys to determine family and community emergency preparedness
4. Summarized PREP Fair mapping and survey data and shared results with community organizations
5. Sent surveys to community organizations to determine support for suggested Connectivity Locations, anticipate problems, and gather more input
6. Heard testimony at monthly PCDP AC meetings regarding Connectivity Locations, received additional suggestions, and answered questions
7. Used presentations to community groups to evaluate existing CL suggestions and gather more input to update CL maps

8. Prioritized suggestions collected via all of the activities listed above, to prepare CL priority lists for four areas: Volcano area, upper Puna, middle Puna, and lower Puna to forward to Hawaii County and to others responsible for implementation
9. Conducted monthly meetings to plan the August 2014 PREP Fair, which will provide an additional opportunity to solicit community input on connectivity locations and emergency evacuation routes and emphasize family and community emergency preparedness

Rationale and Request

Because funding may be available to support high priority Connectivity Locations that have strong community support and are ready for implementation, the CERS submits its prioritized lists for the four areas, with attached documentation, to the PCDP AC for approval. These lists are based on community input and take into account CL criteria developed during the PCDP process, as well as criteria provided by the County of Hawaii.

Actions Requested:

1. The Connectivity and Emergency Response Subcommittee requests that the Action Committee of the PCDP approve this report and accompanying documents
2. The Connectivity and Emergency Response Subcommittee requests that the PCDP AC forward the prioritized list and accompanying resource documents to the County of Hawaii Planning Department for distribution to Department of Public Works and to County Council members representing Puna for additional input as to the viability of the recommendations, implementation and funding.

The top three Connectivity Locations for each of the four Puna areas are:

Volcano Area:

1. Fern Forest/Eden Roc - Kaleponi to Punahele, Map 3, CL#s 41, 3, 19
2. Volcano Village - Wright Road to Stainback, Map 1, CL# 36
3. Fern Forest/Eden Rock - Leila Road to Ahi Avenue, Map 3, CL# 42

Puna Uka (Upper):

1. Highway 11 to Fern Acres - South Lauko to Puhala, Map 4, CL# 7
2. Enos Road to Hawaiian Acres - Enos Road to Ao and Kea Roads in Hawaiian Acres, Map 4, CLs# 6 & #11
3. Connect Fern Acres to Kopua Farmlots on Puhala to Kahikopele CL#14

Puna Waena (Middle):

1. HPP/HB/HS - Hawaiian Paradise Park to Hawaiian Beaches/Hawaiian Shores (Railroad), Map 5, CL# 24
2. HPP/Hilo - HPP to Hilo (Railroad), Map 2, CL# 25
3. Orchidland/Hawaiian Acres – Pohaku Drive to Pulelehua Road, Map 5, CL# 26

Puna Kai (Lower):

1. HPP to Hawaiian Beaches/Hawaiian Shores (Railroad), Map 6a, CL# 29
2. Nanawale - Additional Access to Highway 132 via Forest Road, Map 6a, CL# 32
3. Seaview Estates – Kamoamoa Road to Highway 130, Map 8, CL# 31

CRITERIA FOR POINTS OF CONNECTIVITY

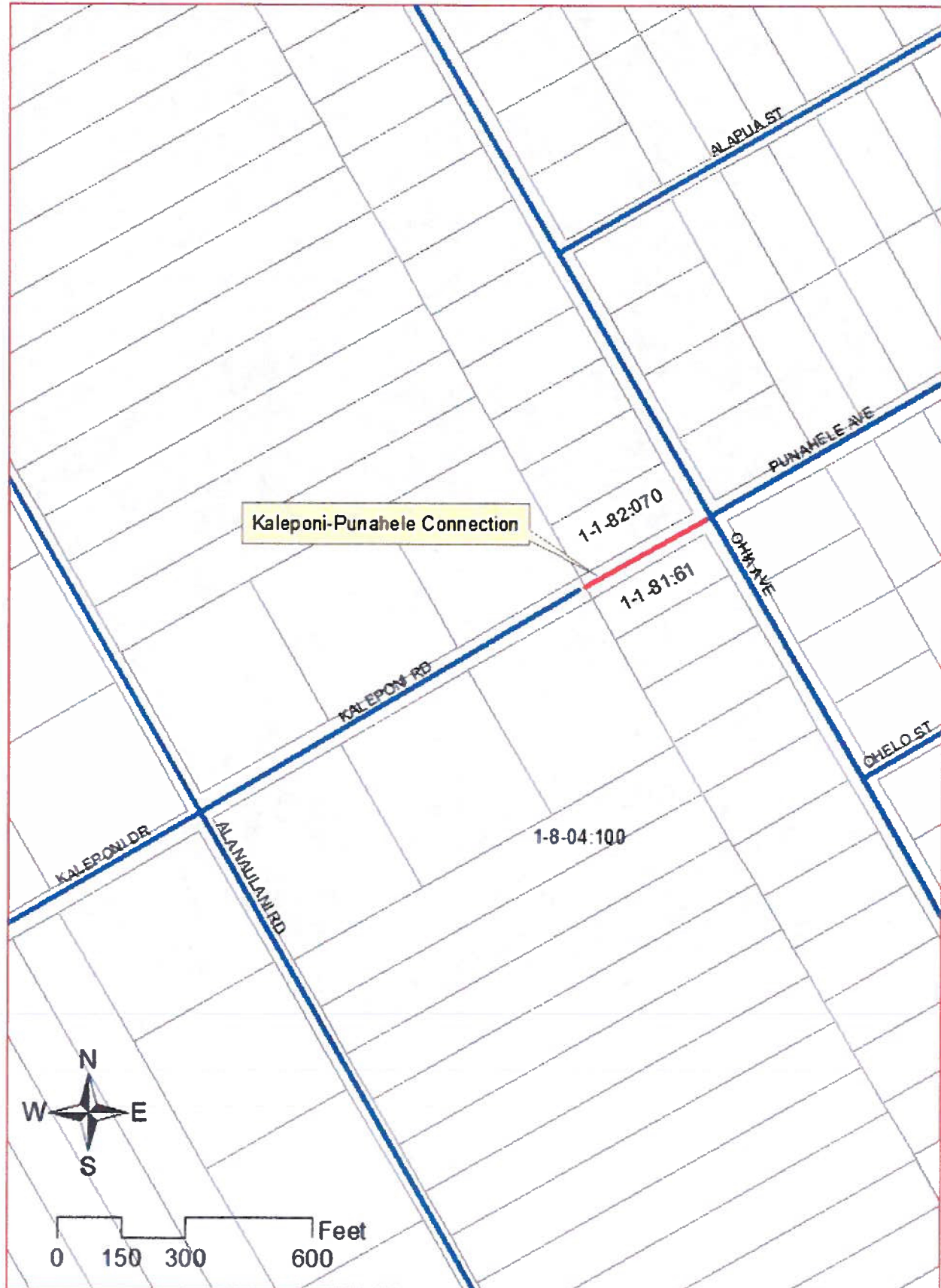
County of Hawaii, Ben Ishii

1. Prefer to **connect to a County Road** at least on one end
2. Prefer that the road be **open to traffic 24/7** and not just for emergencies
3. We need to construct a road the meets **AASHTO** (American Association of State Highway and Transportation Officials) **guidelines**.
4. Prefer to do a project where there is **no community opposition**
5. Prefer to do a road that will **improve traffic circulation**
6. Prefer to do a road where there are **no major drainage issues**

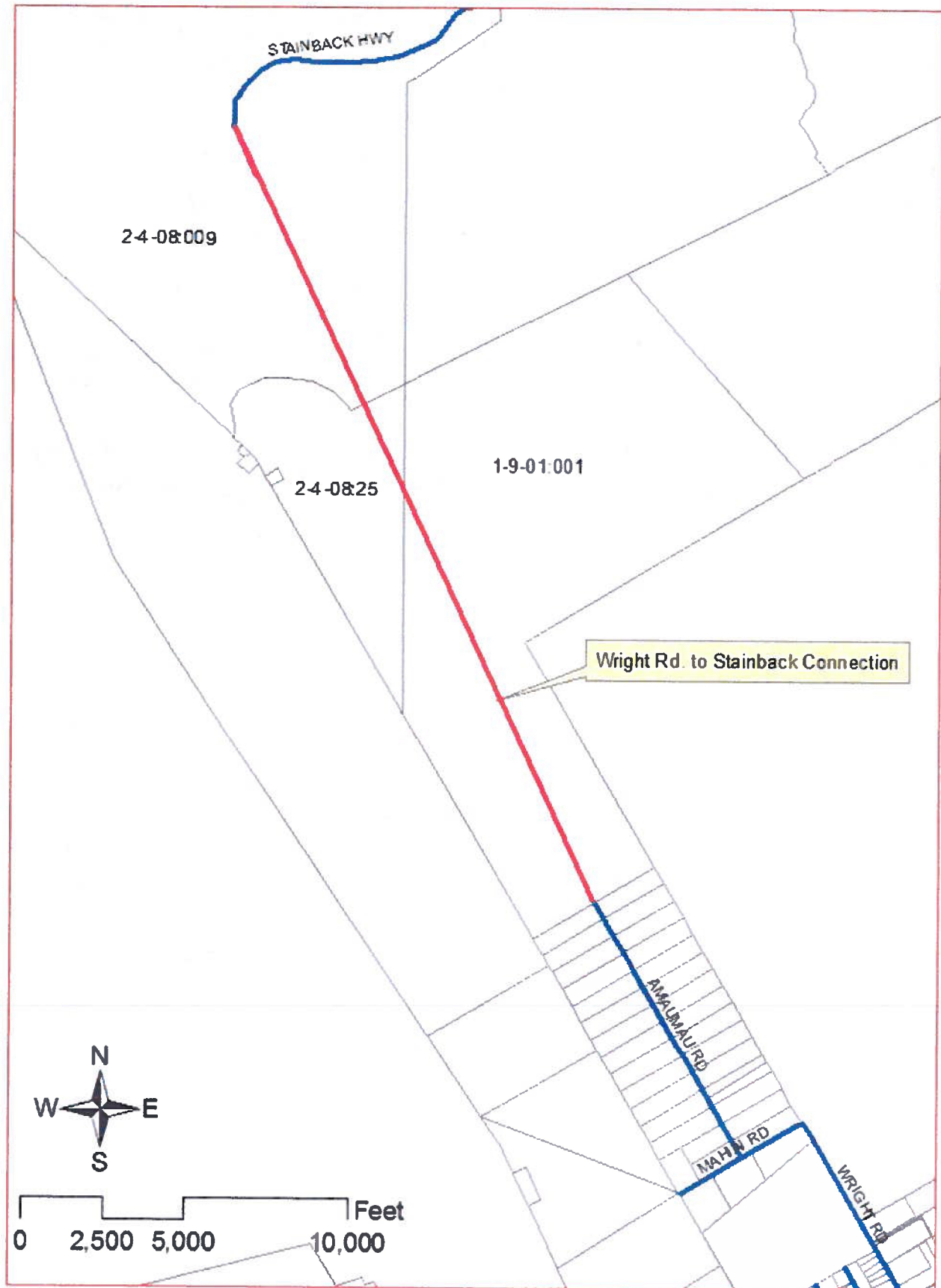
Puna Community Development Plan Connectivity Priorities

1. **Health, Safety, and Emergency Issues:** Emphasize emergency routes and other issues related to health and safety, including evacuation for all residents, with appropriate provisions made for those with disabilities (in accordance with the Americans with Disabilities Act).
2. **Education, Technical, and Social Issues:** Emphasize connectivity related to local educational and applied technological issues, as well as to social interactions that enhance personal safety, consider the appropriateness of creating linear parks connecting subdivisions and inter-subdivision gathering places (in accordance with the Americans with Disabilities Act).
3. **Transportation, Non-Vehicular:** Consider pedestrian, cycling, equestrian, and other non-vehicular transport.
4. **Transportation, Mass Transit:** Address essential mass transit services
5. **Land Use, Environment:** Protect cultural, natural, and other environmental values, including preserving open spaces for a variety of purposes indentified in the PCDP.
6. **Land Use, Low or No Impact Design:** Use no impact or minimum impact design and construction.
7. **Safe Routes to Schools:** Include safe routes to schools in all considerations related to connectivity
8. **Community Alliances:** Provide examples of how communities (e.g. Volcano) are creating alliances related to connectivity.

Volcano Area #1: Fern Forest / Eden Roc Connection



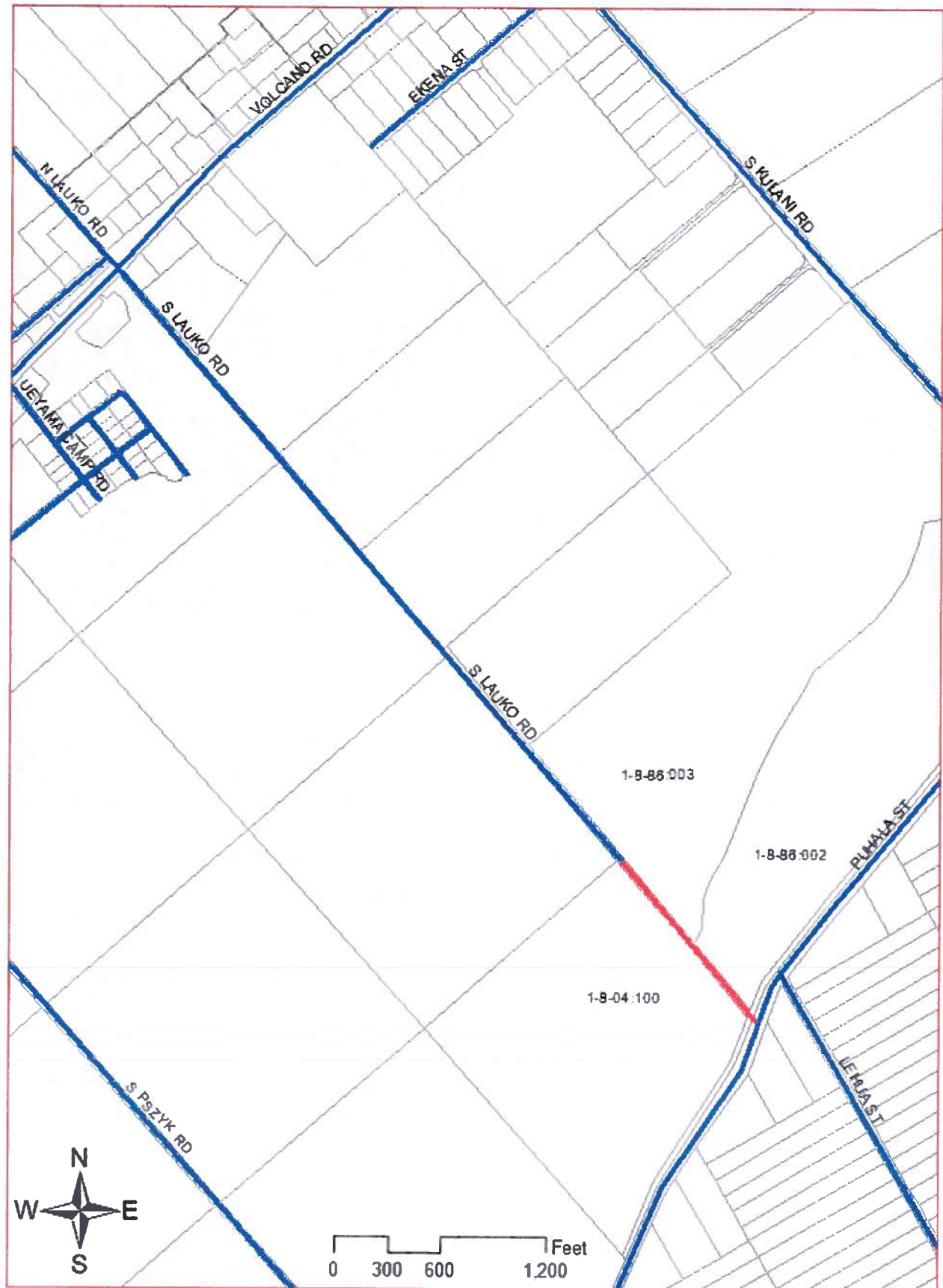
Volcano #2: Wright Rd. to Stainback Connection



Volcano #3: Leila Rd. to Ahi Ave. Connection



Puna Uka #1: S. Lauko Road to Puhala Connection



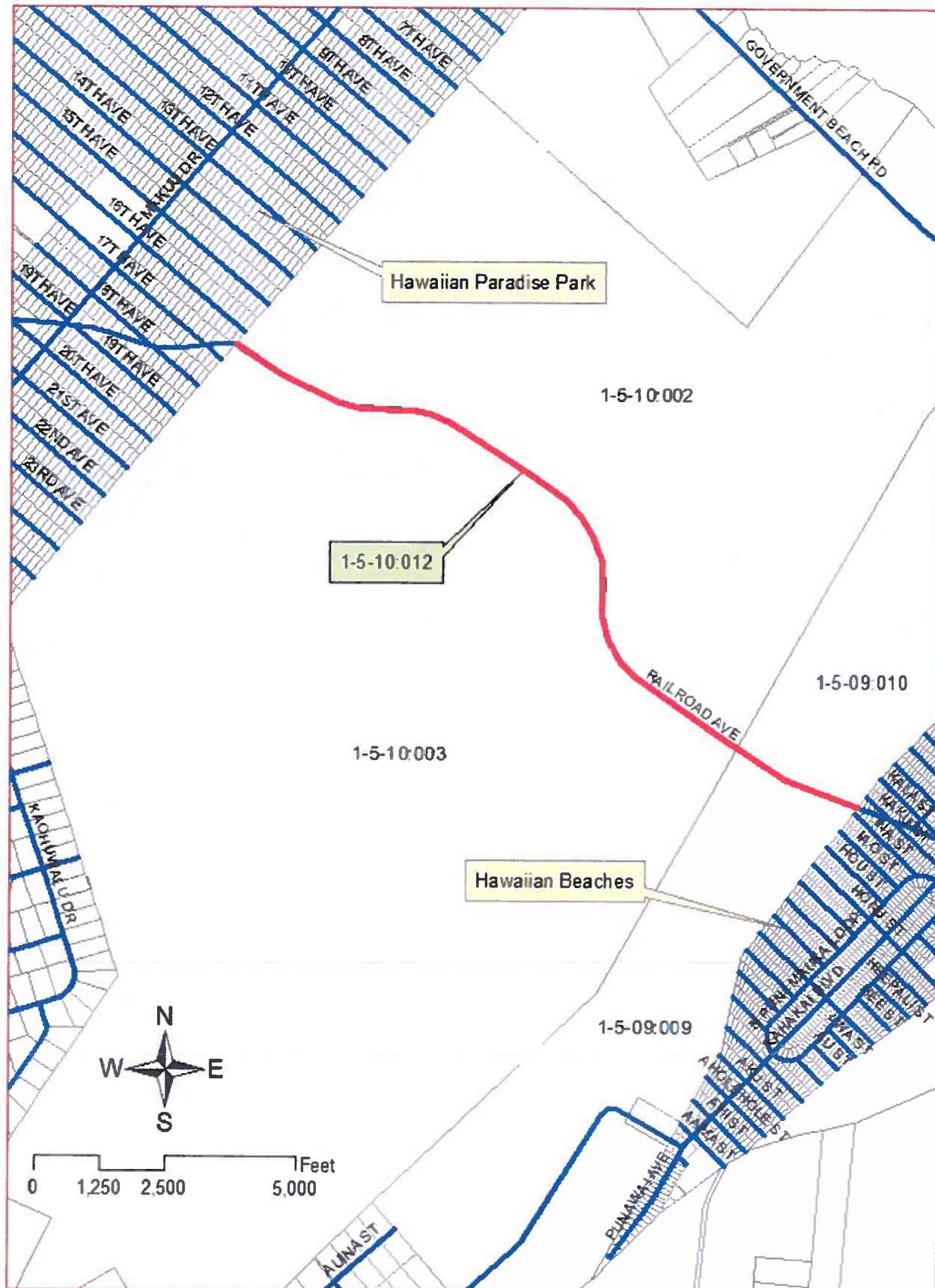
Puna Uka #2: Kea Rd. & Ao Rd. to S. Enos Rd. Connection



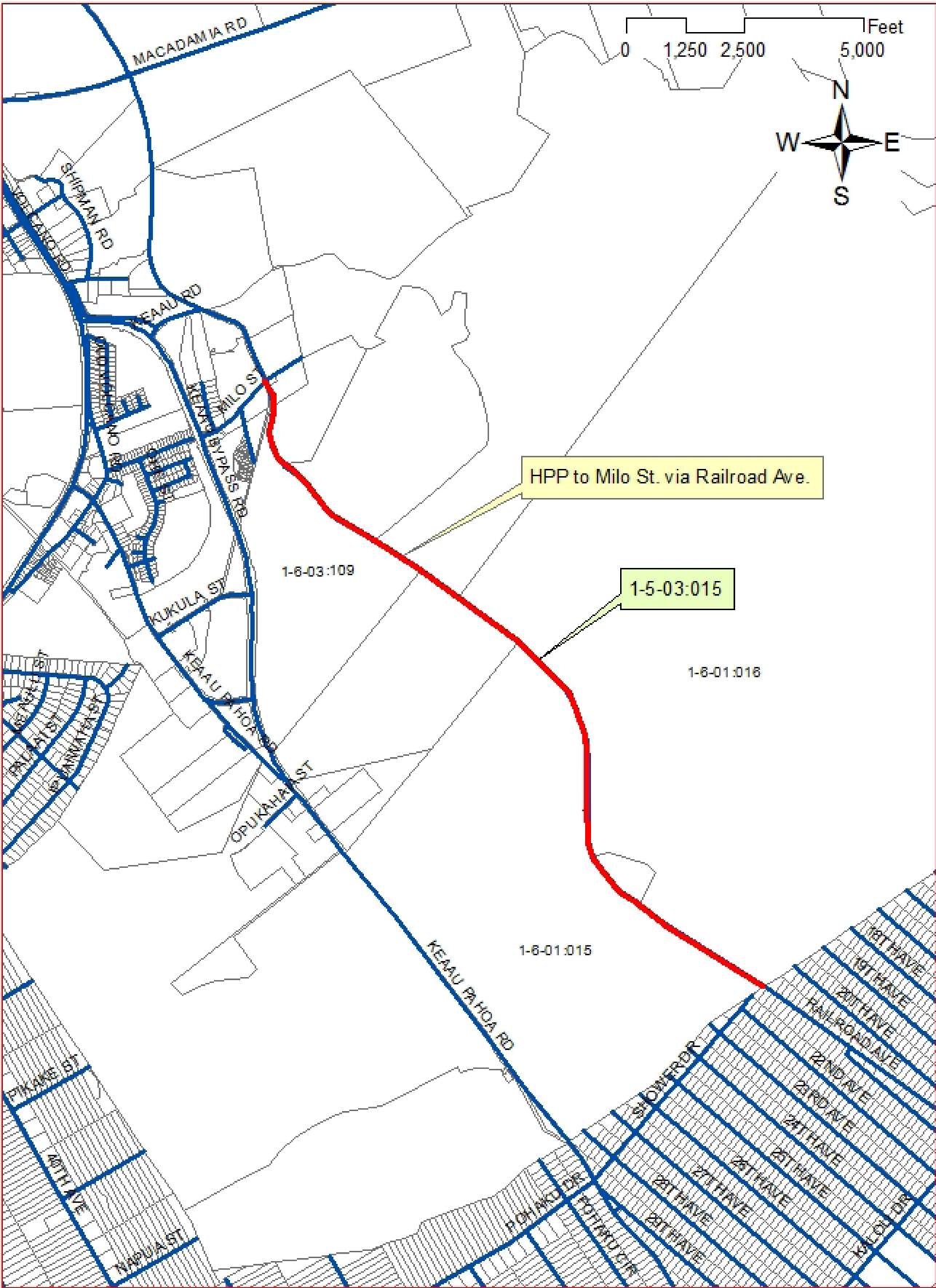
Puna Uka #3: Fern Acres & Kopua Farm Lots Connection Puhala Rd. to Kahikopele Rd.



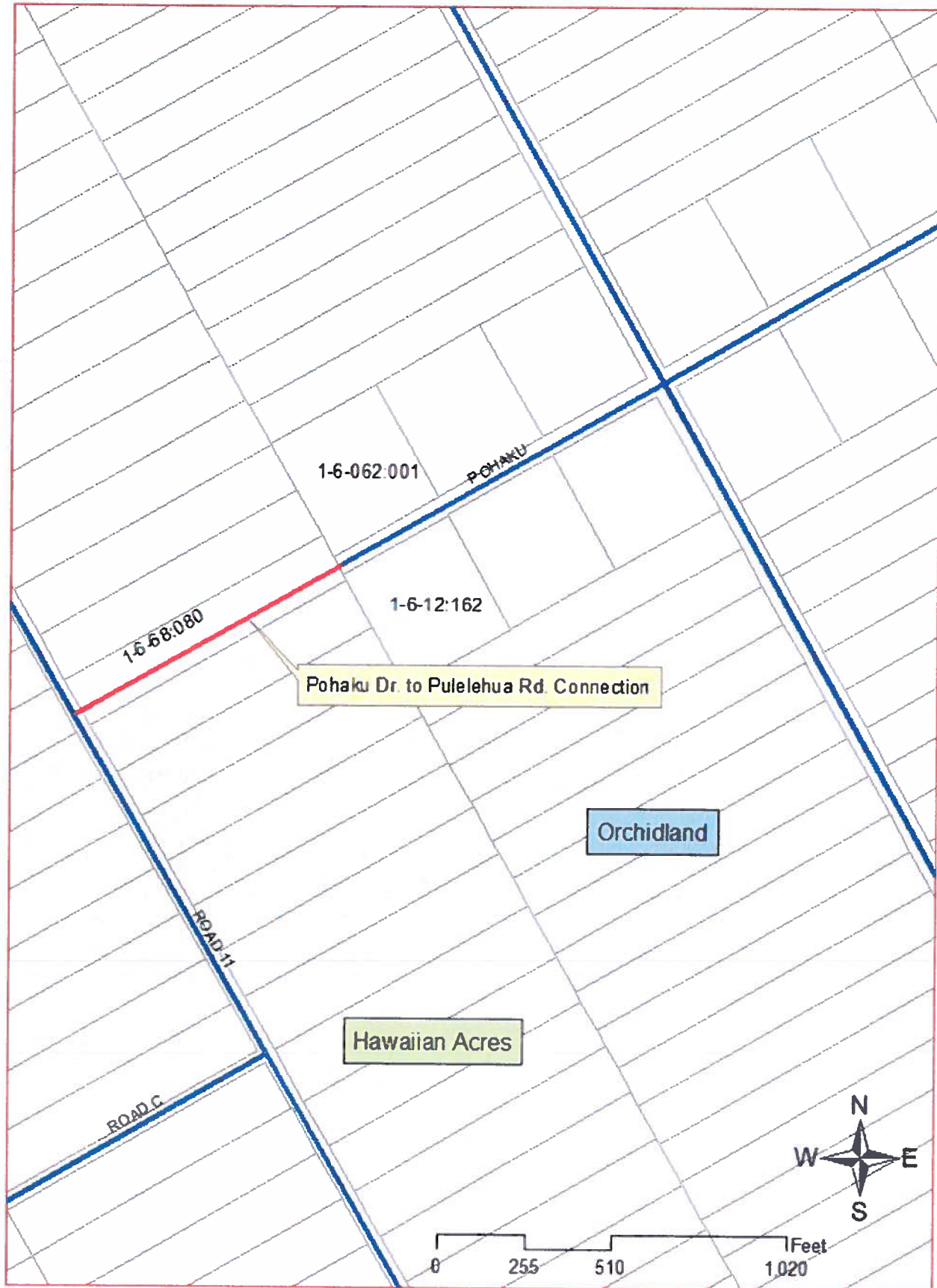
**Puna Waena #1 and Puna Kai #1:
HPP to Hawaiian Beaches via Railroad Ave.**



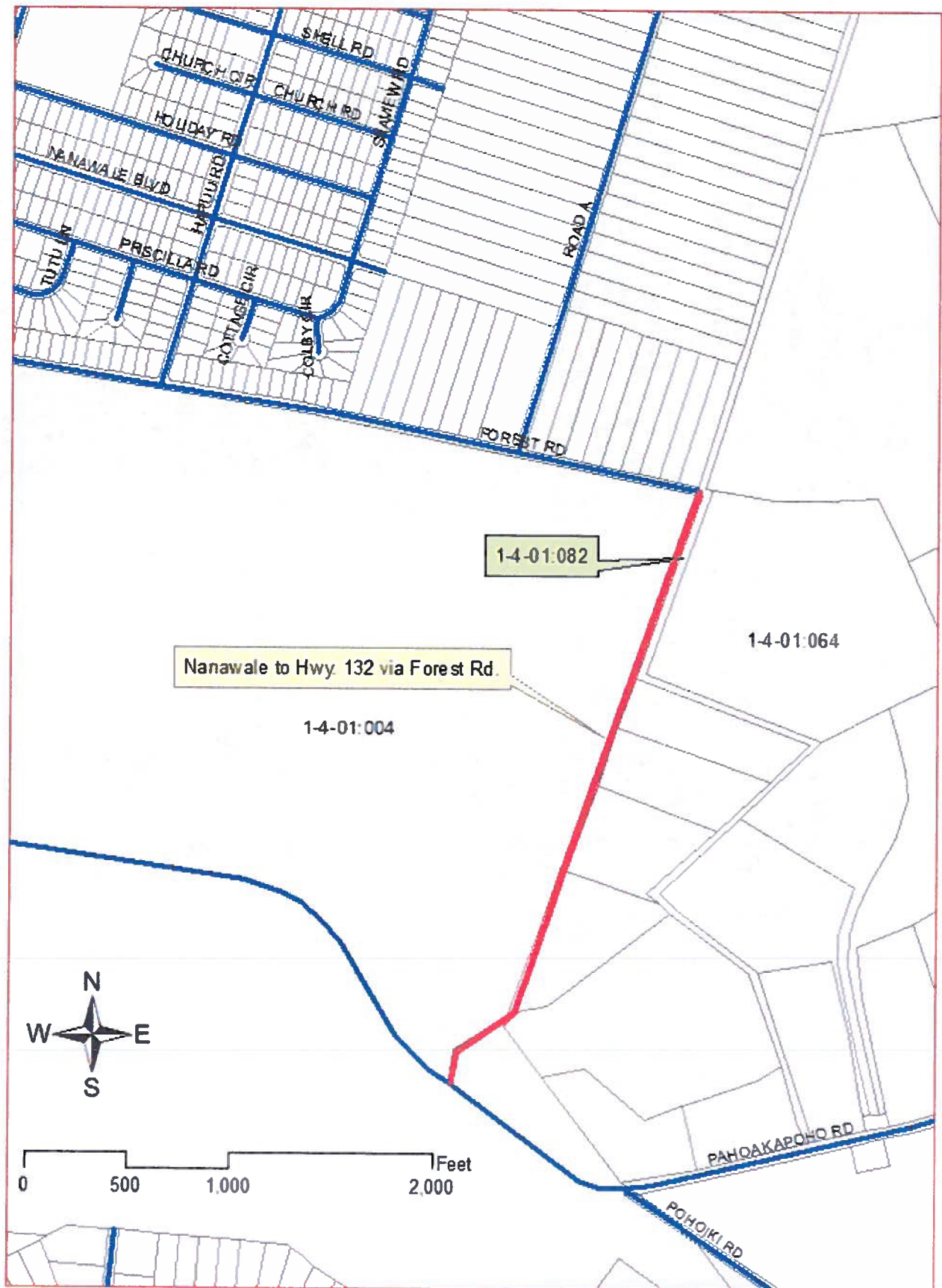
Puna Waena #2: HPP to Milo St via Railroad Ave.



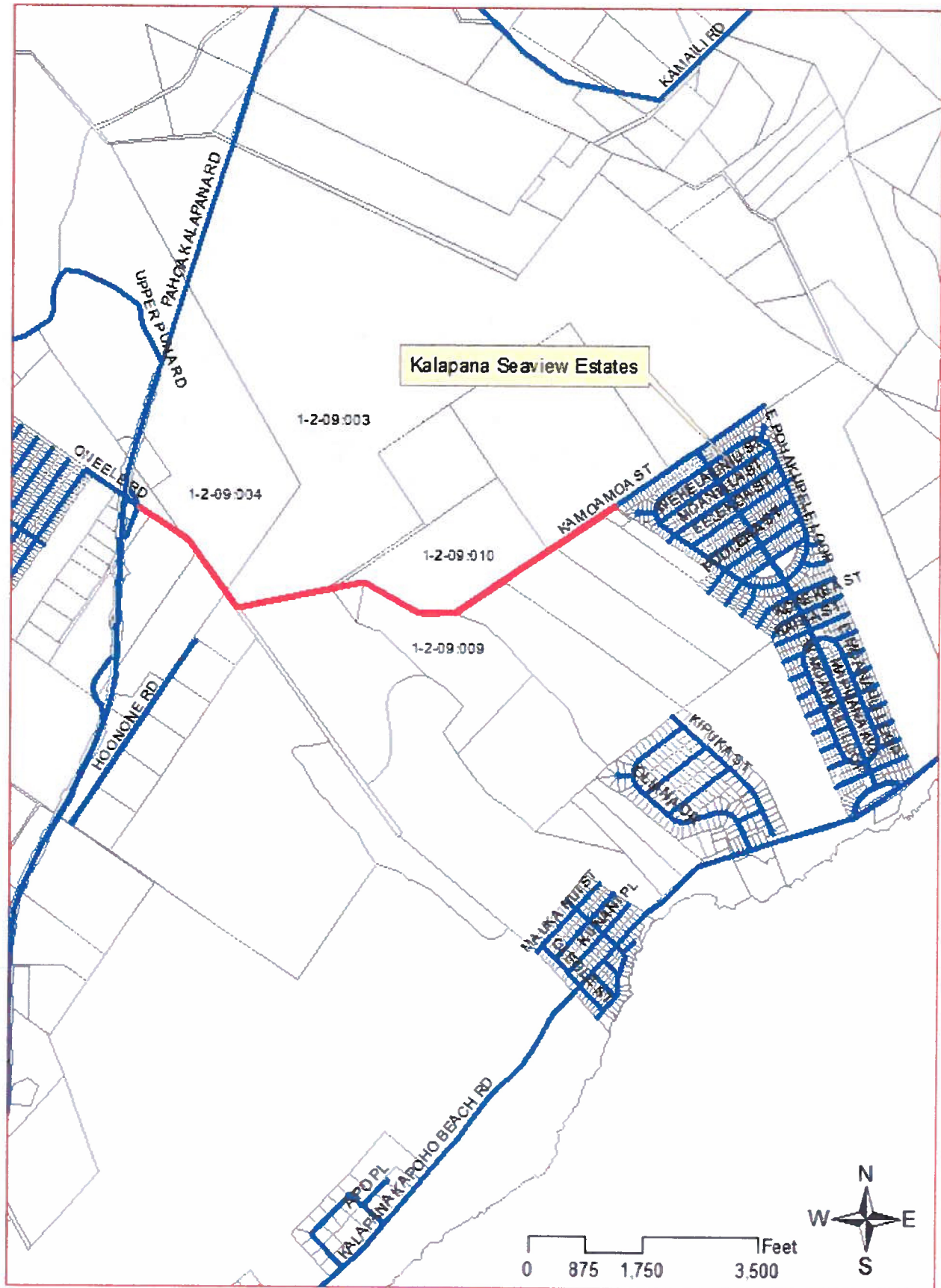
Puna Waena #3: Pohaku Dr. to Pulelehua Rd. Connection



Puna Kai #2: Nanawale to Hwy. 132 via Forest Rd.



Puna Kai #3: Kalapana Seaview Estates to Hwy. 130



CLP Map #	Subdivision/Community	Connectivity Issue	Number of People Served	Connect to County Road	Meet AASHTO 247 guidelines	Little or No Community opposition	Improve traffic circulation	No major drainage issues	Health Safety & Emergency	Education Technical Social Issues	Non-vehicular transportation	Mass Transit	Land Use Environment	No/Low Impact Design	Safe Router to Schools	Community Alliances	Term Actions to Long term projects	NOTES AND GUIDE TO CRITERIA WEIGHTING 0 = unknown or not applicable 1= does not address slightly addresses 3= addresses 4 = strongly addresses 5 = very strongly addresses
		PUNA UKA	TOTALS															
7	4 Fern Acres	Complete South Lauko Road from Highway 11 in Mountain View to Puhala in Fern Acres	61	5	3	3	0	5	5	1	5	5	3	2	5	5	5	2=
6	4 Hawaiian Acres	Complete Enos Road to Old Volcano Trail, Ao & Kea Rd in Hawaiian Acres	57	4	3	3	0	3	5	3	5	5	3	5	4	3	4	
14	4 Fern Acres/Kopua Farmlots	Connect Puhala from Fern Acres to Kopua Farm Lots	53	4	1	3	0	3	5	4	5	3	3	3	4	5	4	
8	4 Fern Acres	Complete S. pszyk Road from Highway 11 in Mountain View to Puhala in Fern Acres	52	4	3	5	0	3	3	1	4	4	4	2	4	4	4	
3	3 Fern Forest/Eden Roc	Kalepou Road connect with Punahale between Ananaualani & Ohia	48	3	1	3	0	2	5	5	3	3	2	3	3	3	4	
15	4 Fern Acres/Hawaiian Acres	Connectivity between Fern Acres and Hawaiian Acres on Orchid	48	4	1	3	0	2	4	4	3	3	3	3	3	3	4	
21	4 Eden Roc Estates	South Oshiro Road, complete connection to Kahikopele (Old Volcano Trail) Eden Roc	46	2	3	3	0	3	4	2	4	3	3	3	3	3	4	
17	4 Fern Acres/Kopua Farmlots	Connectivity between Kopua Farmlots and Fern Acres on Orchid	45	2	1	3	0	2	4	4	3	3	3	3	3	2	4	
16	4 Fern Acres/Hawaiian Acres	Connectivity between Fern Acres and Hawaiian Acres on Rose	44	3	1	3	0	2	3	4	3	3	3	3	3	3	4	
4	3 Fern Forest/Eden Roc	Omeka Road connect with Painui St. between Alanaulani and Ohia	43	3	1	3	0	2	4	5	4	3	3	2	3	3	3	
18	4 Fern Acres/Kopua Farmlots	Connectivity between Kopua Farmlots and Fern Acres on Gardenia	43	2	1	3	0	2	3	4	3	3	3	3	3	3	4	
19	4 Eden Roc Estates	Connectivity between Kalepou Punahale Ave.	43	4	1	3	0	2	3	4	3	3	2	3	2	2	4	
22	1 Aloha Estates	Connectivity between Punahale and Kopua Farmlots	43	2	1	3	0	3	3	4	3	3	1	3	3	3	4	
13	4 Fern Acres/Hawaiian Acres	Connect on Anthurium between Fern Acres and Hawaiian Acres	42	3	1	3	0	3	3	3	3	1	3	3	3	3	4	
12	4 Pacific Paradise/Glenwood	Connect N. Oshiro Road to Peck Road-at top border of subdiv. To connect to Peck Rd.	41	3	3	3	0	3	3	3	3	1	3	2	3	2	2	
2	1 Orchid Island Estates	Open Lehuani to Glenwood	36	3	3	3	0	3	3	0	4	2	3	2	3	2	3	1
9	4 Fern Acres/Kopua Farmlots	Connect between Fern Acres and Kopua Farm Lots on Anthurium	36	3	1	3	0	2	3	3	3	2	1	3	2	1	3	
10	4 Hawaiian Acres/Keau Ag Lots	Connect 40th to Puaiwa Hia Rd. in Keau Ag Lots	34	3	1	3	0	2	2	4	3	2	2	2	2	2	2	
20	4 Eden Roc Estates	Open up Akala to Kopua Farmlots	33	3	1	3	0	2	3	3	2	2	2	3	2	2	2	
43	3 Fern Forest	Open Kahikopele between Eden Roc and Fern Forest *	3	3														
		2010 Census Population Numbers																
		Alaloa																
		Eden Roc																
		Eden Roc	2,965															
		Eden Roc	942															
		Fern Acres	1,504															
		Fern Forest	931															
		Hawaiian Acres	2,700															
		Hawaiian Beaches/Shores	4,280															
		Hawaiian Paradise Park	11,404															
		Keau	2,255															
		Kurtistown	1,258															
		Leilani	1,560															
		Mountain View	3,924															
		Nanawale	1,426															
		Orchidland	2,815															
		Pahoa	945															
		Volcano Village+Golf Course	2,575															

CL#	Map #	Subdivision/Community	Connectivity Issue	Number of People Served	Connect to County Road	Open 24/7	Meet AASHTO guidelines	Little or No Community opposition	Improve traffic circulation	No major drainage issues	Health Safety & Emergency	Education Technical Social Issues	Non-vehicular transportation	Land Use Environment	No/Low Impact Design	Safe Routes to Schools	Community Alliances	Short Term Actions to long term projects	NOTES AND GUIDE TO CRITERIA WEIGHTING 0 = unknown or not applicable 1= does not address 2= slightly addresses 3= addresses 4 = strongly addresses 5 = very strongly addresses
PUNA KAI																			
29	6	Hawaiian Shores/Beaches	Connection between HPP and Hawaiian Beaches/Shores side (Railroad)	54	1	5	4	3	5	5	5	2	4	2	3	3	1	2	4
32	6	Nanawale	One additional access road to Hwy 132, Forest Rd.	51	4	5	5	4	5	4	4	2	2	1	2	3	3	1	1
31	8	Seaview Estates	Kamaoia Road to Highway 130 on the HELCO Power Line	49	3	2	4	2	3	5	4	3	2	1	2	3	3	3	4
48	7	Hawaiian Shores/Beaches-HPP	Improve Government Beach Rd. between HS/B & HPP	48	5	5	0	3	3	5	4	3	5	1	3	3	1	3	3
46	7	Kaohi Homestead	Connect from North Rd. to Cemetery Rd.	43	3	5	4	4	3	3	4	1	3	1	3	3	1	1	1
47	7	Kaohi Homestead	Connect from Alanoa Rd. to Hwy 130	43	3	5	4	4	3	3	4	1	3	1	3	3	1	1	1
30	8	Puna Palisades Estates	Second exit from Kipuka St. to Highway 137 in Puna Palisades	42	3	3	4	2	5	5	4	1	2	1	2	3	1	1	2
8		Keheua																	
6b		Vacation Land																	
6b		Kapoho Beach Lots																	
2010 Census Population Numbers																			
		Alaloa	2,965																
		Eden Roc	942																
		Fern Acres	1,504																
		Fern Forest	931																
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		Pahoia	945																
		Volcano Village+Golf Course	2,575																
VOLCANO AREA																			
41,3,19		3 Fern Forest/Eden Roc	Connect Kalepōi to Pūnāhele	54	5	1	5	0	2	5	4	5	4	3	2	3	3	4	4
36		1 Volcano Village	Continue Wright Rd. (State 148) to Stainback	53	4	5	4	5	4	3	4	5	1	4	1	3	3	1	5
42		3 Fern Forest/Eden Roc	Connect Leila Rd. to Ahi Ave.	43	4	1	5	0	2	4	4	4	3	3	1	3	3	3	2
43		3 Fern Forest/Eden Roc	Connect from Alanaulani Rd to Kahikōpēle	41	3	1	5	0	2	4	4	4	3	3	1	3	3	2	2
45		1 Royal Hawaiian Estates	Connect Old Volcano Rd. with Ali'i Anāia and Ali'i Koa to Hwy 11	39	3	5	5	5	5	1	4	1	1	1	1	3	1	1	1
35		1 Golf Course	Connect between Pūi Mauna and Tree Molds	38	3	5	2	0	4	3	4	5	1	3	2	1	2	1	1
44		1 Ohia Estates	Connect Old Volcano Rd. to Hwy. 11	38	2	5	5	5	5	1	4	1	1	1	1	3	1	1	1
34		1 Golf Course	Connect between Keaouhu Bird Ctr. Rd. to Mahiai	37	3	1	2	0	4	1	4	5	1	4	1	3	2	1	2
33		1 Golf Course/Village	Connect between Pūi Mauna and Pūi	35	3	1	2	0	4	1	4	5	1	4	1	3	1	1	1
37		1 Volcano Village	Connect to Place to Maile Rd	34	1	1	5	5	4	2	4	2	1	1	1	3	1	1	1
38		1 Volcano Village	Connect Hauahā to Alahou (apparent easement toward mauka end)	34	1	1	5	5	4	2	4	2	1	1	1	3	1	1	1
		Ohia Estates, Mauna Loa Estates, Hawaii Orchid Island Estates, Royal Hawaiian Estates	Road across Shipman land, location to be determined, between Ohia Estates/Mauna Loa Estates and Hawaii Orchid Island Estates/Royal Hawaiian Estates	34	2	1	1	0	2	4	4	2	2	1	1	1	4	4	
40		1 Royal Hawaiian Estates	Kalaninaʻu Rd. does NOT extend towards Hwy 11 past Luakapu (no need)																
39		1 Volcano Village																	