



PLANNING COMMISSION

KAAINA S. HULL, CLERK OF COMMISSION

DONNA APISA, CHAIR
GERALD AKO, VICE CHAIR
HELEN COX, MEMBER
FRANCIS DEGRACIA, MEMBER
GLENDA NOGAMI STREUFERT, MEMBER
JERRY ORNELLAS, MEMBER
LORI OTSUKA, MEMBER

RECEIVED

- The Planning Commission Meeting will be at:

24 APR -3 AM 1:58

Līhu'e Civic Center, Moikeha Building
Meeting Room 2A-2B
4444 Rice Street, Līhu'e, Kaua'i, Hawai'i

OFFICE OF
THE COUNTY CLERK
COUNTY OF KAUAI

- Oral testimony will be taken on specific agenda items, at the public meeting location indicated on the meeting agenda.
- Written testimony indicating your 1) name or pseudonym, and if applicable, your position/title and organization you are representing, and 2) the agenda item that you are providing comment on, may be submitted on any agenda item in writing to planningdepartment@kauai.gov or mailed to the County of Kaua'i Planning Department, 4444 Rice Street, Suite 473, Līhu'e, Hawai'i 96766. Written testimony received by the Planning Department at least **24 hours prior** to the meeting will be posted as testimony to the Planning Commission's website prior to the meeting (<https://www.kauai.gov/Government/Boards-and-Commissions/Planning-Commission>). Any testimony received after this time will be retained as part of the record, but we cannot assure the Commission will receive it with sufficient time for review prior to the meeting.

IF YOU NEED AN AUXILIARY AID/SERVICE, OTHER ACCOMMODATION DUE TO A DISABILITY, OR AN INTERPRETER FOR NON-ENGLISH SPEAKING PERSONS, PLEASE CONTACT THE OFFICE OF BOARDS & COMMISSIONS AT (808) 241-4917 OR ADAVIS@KAUAI.GOV AS SOON AS POSSIBLE. REQUESTS MADE AS EARLY AS POSSIBLE WILL ALLOW ADEQUATE TIME TO FULFILL YOUR REQUEST. UPON REQUEST, THIS NOTICE IS AVAILABLE IN ALTERNATE FORMATS SUCH AS LARGE PRINT, BRAILLE, OR ELECTRONIC COPY.

PLANNING COMMISSION MEETING NOTICE AND AGENDA

Tuesday, April 9, 2024

9:00 a.m. or shortly thereafter

Līhu'e Civic Center, Moikeha Building

Meeting Room 2A-2B

4444 Rice Street, Līhu'e, Kaua'i, Hawai'i

A. CALL TO ORDER

B. ROLL CALL

C. APPROVAL OF AGENDA

D. MINUTES OF THE MEETING(S) OF THE PLANNING COMMISSION

E. RECEIPT OF ITEMS FOR THE RECORD

F. HEARINGS AND PUBLIC COMMENT

1. Continued Agency Hearing

- a. None for this Meeting.

2. New Agency Hearing

- a. SPECIAL MANAGEMENT AREA USE PERMIT (SMA(U)-2024-8), CLASS IV ZONING PERMIT (Z-IV-2024-3), USE PERMIT (U-2024-3) to allow operation of a commercial boating facility that involves staging/shuttling of patrons to the harbor, construction of two (2) boat storage facilities, two (2) dwelling units, and associated improvements, and SHORELINE SETBACK VARIANCE (SSV-2024-1) to allow deviate from the shoreline setback requirement pursuant to Section 8-27.3 of the Kauai County Code (1987), affecting two lots located on the makai side of Kaumualii Highway in Kīkīaola, Waimea, situated approximately 1,000 feet west of the Kīkīaola Harbor, further identified as Tax Map Keys: (4) 1-2-013:039 & 040, and containing a total land area of approximately 2.3 acres = **Nathaniel Fisher**. [Director's Report Received 3/19/2024].

- 1. Transmittal of First Supplement to Application.
- 2. Transmittal of Agency Comments to Planning Commission.
- 3. Director's Report pertaining to this matter.

3. Continued Public Hearing

- a. None for this Meeting.

4. New Public Hearing

- a. None for this Meeting.

G. CONSENT CALENDAR

1. Status Reports

- a. None for this meeting.

2. Director's Report for Project(s) Scheduled for Agency Hearing

- a. None for this meeting.

3. Class III Zoning Permits

- a. None for this meeting.

H. GENERAL BUSINESS MATTERS

- 1. In the Matter of Petition to Appeal Planning Director's Decision Related to the Planning Director's Cease and Desist and Forfeiture of TVRNCU #4287 (Mau Loa Ohana) for the Failure to Renew by April 18, 2023, related to the property located at 4650 Amio Road, Koloa, Kauai, Hawaii, TMK 26011019, **Edmund Gregoire, Linda Gregoire, and Mauloa LLC.**

- a. Stipulation and Order for Dismissal with Prejudice re: CC-2024-3.

I. COMMUNICATION

- 1. None for this meeting.

J. COMMITTEE REPORTS

- 1. Subdivision Committee Report.

- a. Subdivision Application No. S-2024-7
Hökūala Resort Subdivision 1
Tower Kauai Lagoons Sub 1, LLC.
Proposed 10-Lot Consolidation and Re-subdivision into 16-Lots
TMK: (4) 3-5-004: 100 to 109
Kalapakī, Līhu'e, Kaua'i
- b. Subdivision Application No. S-2024-8
Hökūala Resort Subdivision 1A
2014 Tower Kauai Lagoons Golf, LLC. /
Tower Kauai Lagoons Land, LLC. /
Tower Kauai Lagoons Sub 7, LLC.
Proposed 2-Lot Consolidation and Re-subdivision into 15-Lots
TMK: (4) 3-5-001: 027 and 168
Kalapakī, Līhu'e, Kaua'i

- c. Subdivision Application No. S-2021-5
Lot 19 of Kukui'ula Parcel H Subdivision
Kukui'ula Vistas, LLC.
Proposed 8-lot Subdivision
TMK: (4) 2-6-022: 055
Kōloa, Kaua'i
- d. Subdivision Application No. S-2022-2
Lot 18 of Kukui'ula Parcel H Subdivision
Kukui'ula Vistas, LLC.
Proposed 7-lot Subdivision
TMK: (4) 2-6-022: 054
Kōloa, Kaua'i
- e. Subdivision Application No. S-2022-8
Kukui'ula Parcel X Subdivision, Phase II
BBCP Kukui'ula Parcel X, LLC. Et. Al.
Proposed 2-lot Consolidation and Re-subdivision into 4-lots
TMK: (4) 2-6-015: 010 and 011
Kōloa (Makai), Kōloa, Kaua'i

K. UNFINISHED BUSINESS (For Action)

- 1. None for this Meeting.

L. NEW BUSINESS (For Action)

- 1. None for this meeting.

M. EXECUTIVE SESSION

Pursuant to Hawaii Revised Statutes Sections 92-4 and 92-5(a)(4), the purpose of this executive session is to consult with the County's legal counsel on questions, issues, status, and procedural matters. This consultation involves consideration of the powers, duties, privileges, immunities, and/or liabilities of the Commission and the County as they relate to the following matters:

- 1. SPECIAL MANAGEMENT AREA USE PERMIT (SMA(U)-2024-8), CLASS IV ZONING PERMIT (Z-IV-2024-3), USE PERMIT (U-2024-3) to allow operation of a commercial boating facility that involves staging/shuttling of patrons to the harbor, construction of two (2) boat storage facilities, two (2) dwelling units, and associated improvements, and SHORELINE SETBACK VARIANCE (SSV-2024-1) to allow deviate from the shoreline setback requirement pursuant to Section 8-27.3 of the Kauai County Code (1987), affecting two lots located on the makai side of Kaumualii Highway in Kikīaola, Waimea, situated approximately 1,000 feet west of the Kikīaola Harbor, further identified as Tax Map Keys: (4) 1-2-013:039 & 040, and containing a total land area of approximately 2.3 acres = **Nathaniel Fisher**. [Director's Report Received 3/19/2024].
- 2. In the Matter of Petition to Appeal Planning Director's Decision Related to the Planning Director's Cease and Desist and Forfeiture of TVRNCU #4287 (Mau Loa Ohana) for the Failure to Renew by April 18, 2023, related to the property located at 4650 Amio Road, Koloa, Kauai, Hawaii, TMK 26011019, **Edmund Gregoire, Linda Gregoire, and Mauloa LLC**.

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Hōkūala Resort Subdivision 1
Tower Kauai Lagoons Sub 1, LLC.
Proposed 10-Lot Consolidation and Re-subdivision into 16-Lots
TMK: (4) 3-5-004: 100 to 109
Kalapakī, Līhu‘e, Kaua‘i
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Hōkūala Resort Subdivision 1A
**2014 Tower Kauai Lagoons Golf, LLC. /
Tower Kauai Lagoons Land, LLC. /
Tower Kauai Lagoons Sub 7, LLC.**
Proposed 2-Lot Consolidation and Re-subdivision into 15-Lots
TMK: (4) 3-5-001: 027 and 168
Kalapakī, Līhu‘e, Kaua‘i
5. Subdivision Application No. S-2021-5
Lot 19 of Kukui‘ula Parcel H Subdivision
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TMK: (4) 2-6-015: 010 and 011
Kōloa (Makai), Kōloa, Kaua‘i

N. ANNOUNCEMENTS

1. Topics for Future Meetings.

The following regularly scheduled Planning Commission meeting will be held at 9:00 a.m., or shortly thereafter, on May 14, 2024. The Planning Commission anticipates this meeting to be held in-person at the Lihue Civic Center, Moikeha Building, Meeting Room 2A-2B, 4444 Rice Street, Lihue, Kauai, Hawaii. The Commission will announce its intended meeting method via an agenda electronically posted at least six days prior to the meeting date.

O. ADJOURNMENT

DEPARTMENT OF PLANNING

KA'ĀINA HULL, DIRECTOR

JODI A. HIGUCHI SAYEGUSA, DEPUTY DIRECTOR



DEREK S.K. KAWAKAMI, MAYOR
REIKO MATSUYAMA, MANAGING DIRECTOR

SPECIAL MANAGEMENT AREA (SMA) Minor Determinations

Date (Action)	SMA Minor Permit Number	Location (TMK)	Activity/Structure
Approved (3.14.2024)	SMA(M)-2024-11	Hanalei (5-5-002:033)	Construction/ New fence, outdoor shower and After the Fact (ATF) shed
Approved (3.25.2024)	SMA(M)-2024-12	Hanalei (5-2-004:091 Unit 1)	Construction/ New 500 linear foot six foot high fence.
Approved (3.27.2024)	SMA(M)-2024-13	Līhu'e (3-5-002:002)	Placement/ Temporary dining tent.
Approved (3.27.2024)	SMA(M)-2024-14	Princeville (5-4-012:006 and 5-4-005:022)	Grading/ Golf course bunker modifications.

Pursuant to Section 8-27.8 (6) of the Kaua'i County Code (1987), as amended, the following shoreline setback determinations by the Director are disclosed for purposes of public notification.

April 9, 2024
SHORELINE SETBACK DETERMINATIONS

Application No.	Name of Applicant(s)	Property I.D. (Tax Map Key)	Location	Development/Reasons
SSD-2024-24	Steven and Robin Drapkin	5-8-008:022	Wainiha	Construction/ New elevator, Required setback 74 feet, proposed development approximately 300 feet from evidenced shoreline.
SSD-2024-25	Hale Kaua'i Trust	5-5-002:007	Hanalei	Construction/ New single family dwelling, Required setback 100 feet from certified shore. Development placed 208 feet away from certified shoreline.
SSD-2024-26	YMCA-Kaua'i	5-8-010:017	Wainiha	Temporary placement/ Required setback is 100 feet from evidenced shoreline, development placed approximately 343 feet away from evidenced shoreline.
SSD-2024-27	Anthony and Carey Sutton	5-5-001042 Unit 1	Hanalei	ATF placement/ Required setback is 60 feet/ Shed 395 feet away from evidenced shoreline.
SSD-2024-28	Anthony and Carey Sutton	5-5-001042 Unit 1	Hanalei	Construction/ Addition to existing residence, required setback is 60 feet/ addition is 292 feet away from evidenced shoreline.
SSD-2024-29	5480 Weke Road	5-5-004:005	Hanalei	Construction/ Deck, fence, and rock wall improvements. New Hot tub, fire pit, and outdoor shower.

BELLES GRAHAM LLP

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Attorney for Applicants,
NATHANIEL FISHER

BEFORE THE PLANNING DEPARTMENT
OF THE
COUNTY OF KAUAI

In The Matter Of The Application	)	SHORELINE SETBACK VARIANCE
	)	SSV-2024-_____
Of	)	SPECIAL MANAGEMENT AREA
	)	USE PERMIT SMA(U)-2024-_____
NATHANIEL FISHER, for a Shoreline	)	USE PERMIT U-2024-_____
Setback Variance, Special Management Area	)	CLASS IV ZONING PERMIT
Use Permit, Use Permit, and Class IV Zoning	)	Z-IV-2024-_____
Permit for property described as Lot 83-B-1,)	
and further identified by Lots 64 and 65 of)	
Land Court Application No. 1076 (Map 35),)	APPLICATION; EXHIBITS "A" - "G"
Kekaha, Kaua'i Tax Map Key Nos.: (4) 1-2-)	
013:039 and 040.)	
_____)	

F.2.a.
April 9, 2024

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EXHIBIT LIST
(Referenced in the EA)

Exhibit “A-1”	– Applicant Authorization
Exhibit “A-2”	– Owner Authorization
Exhibit “B-1”	– Lot 64 Title Report
Exhibit “B-2”	– Lot 65 Title Report
Exhibit “C-1”	– Location Map
Exhibit “C-2”	– Tax Map
Exhibit “C-3”	– Land Court Map
Exhibit “C-4”	– State Land Use Map
Exhibit “C-5”	– General Plan Map
Exhibit “C-6”	– CZO Map
Exhibit “C-7”	– West Kauai Community Plan Map
Exhibit “C-8”	– SMA Map
Exhibit “C-9”	– Heritage Resources Map
Exhibit “C-10”	– Kauai Coastal Erosion Study
Exhibit “C-11”	– Sea Level Rise Constraint District Map
Exhibit “D-1”	– Subdivision Map
Exhibit “D-2”	– Shoreline Certification (Lots 64 and 65)
Exhibit “E-1”	– Lot 64 Plan Set
Exhibit “E-2”	– Lot 65 Plan Set
Exhibit “F-1”	– Kikiaola Coastal Assessment Report
Exhibit “F-2”	– Ka Pa’akai Analysis
Exhibit “F-4”	– Archeological Assessment
Exhibit “G-1”	– DOH Comments
Exhibit “G-2”	– Community Responsive Letter
Exhibit “G-3”	– Community Responsive Letter
Exhibit “G-4”	– Community Responsive Letter
Exhibit “G-5”	– Community Responsive Letter
Exhibit “G-6”	– Community Responsive Letter

I. INTRODUCTION: PROJECT SUMMARY

Project Name: Commercial Boat Facility and Residential Dwellings

Owner/Applicant: Hokuaina Development LLC, a Hawaii limited liability company
Nathaniel Fisher

Approving Agency: Kaua'i County Planning Department

Project Location: Lots 64 and 65 of Land Court Application No. 1076 (Map 35)
Kekaha, Kaua'i TMK Nos.: 1-2-013:039 and 040

State Land Use: Urban

County of Kaua'i Zoning: Open District

General Plan Designation: Natural Designation

Determination of EA: Anticipated Finding of No Significant Impact (FONSI)

Agencies and Parties Consulted during EA included:

State of Hawaii Department of Health
State of Hawaii Accounting and General Services
State of Hawaii DLNR State Historic Preservation Review
Kaua'i County Planning Department

Process Employed in Preparation of EA:

In anticipation of approval of updated Environmental Assessment regulations, this Environmental Assessment has been performed under the provisions of Hawai'i Administrative Rules, Title 11, Department of Health, Chapter 200.1, Environmental Impact Statement Rules, Subchapter 9

II. SUMMARY OF PROPOSED ACTION

Nathaniel Fisher ("Applicant") hereby requests a Shoreline Setback Variance, Special Management Area Use Permit, Use Permit and Class IV Zoning Permit to construct a Commercial Boat Facility and two (2) Residential Dwellings on properties identified as Lot Nos. 64 and 65 of Land Court Application No. 1076 (Map 35), and further identified as TMK Nos. (4) 1-2-013:039 and 040 (collectively "Subject Properties"). (See, Exhibit "A-1" for the Applicant's Authorization). Lot 64 is allocated 1.112 acres and Lot 65 is allocated 1.188 acres. The Subject Properties are currently owned by Hokuaina Development LLC, a Hawaii limited liability company and the Applicant is under contract to purchase the Subject Properties. (See, Exhibit "A-2" for the Owner's Authorization). The ownership of the Subject Properties are reflected in Exhibits "B-1" and "B-2", respectively.

The Applicant proposes to construct a Commercial Boat Facility and two (2) Residential Dwellings (collectively "Project") on the northern (mauka) side of the Subject Properties to comply with the Section 27 of the Kauai County Code, Chapter 8, Comprehensive Zoning Ordinance ("CZO"). The purpose of the Project is to provide alternative boating facilities for a commercial boating operation at Kikiaola Small Boat Harbor whereby patrons will park, check-in, gear up and load up to depart to board vessels at Kikiaola Small Boat Harbor for commercial boat tours. Additionally, the Application proposes two (2) residential dwelling units to accompany the commercial boating facility for residential, employee housing and/or long-term rental use. The proposed improvements are collectively referred to as the "Project".

The proposed Project consists of the following on the Subject Properties: Lot 64, 1) Single-family Dwelling Unit (1,000 square feet); 2) Boat Shed (2,160 square feet), Gravel Parking, Driveway, Fencing, and related Site Utilities; and Lot 65, 1) Single-family Dwelling Unit (1,000 square feet); 2) Boat Shed (2,160 square feet), Gravel Parking, Driveway, Fencing, and related Site Utilities. Attached as Exhibits "E-1" and "E-2" are the Project Plan Sets for the respective Subject Properties.

SMA (Shoreline Management Area) Use Permit will be required for the Project. The proposed Project will also require a Shoreline Setback Variance (SSV) as required by the Planning Department of the County of Kaua'i (Planning Department). A Use Permit and Class IV Zoning Permit are also required for the Project for the commercial component of the Project.

III. LOCATION LAND USE DESIGNATIONS OF PROPERTIES

A. Location. The Subject Properties are located in Kekaha, Kauai, Hawaii, and are shown on the Location Map attached hereto as Exhibit "C-1" and on the Tax Map attached as Exhibit "C-2". Map No. 35 of Land Court Application 1076 is attached as Exhibit "C-3".

B. Land Use Designations. The respective State Land Use Commission ("SLUC"), Kauai General Plan, County of Kauai Comprehensive Zoning Ordinance ("CZO"), and other relevant land use designations for the Subject Properties are described as follows:

1. SLUC. As shown on the Land Use District Boundary Map attached as Exhibit "C-4", the Subject Properties are located in the SLUC Urban District. The Subject Properties have been located in the SLUC Urban District since the inception of the SLUC Districts.

a. Kauai General Plan. As shown on the General Plan Map attached as Exhibit "C-5", the Subject Properties are located in the Kauai General Plan Natural Designation. The Subject Properties were recently designated from the Open Designation to the newly created Natural Designation in the Update to the Kauai General Plan (2018).

b. CZO. As shown on the CZO Map attached as Exhibit "C-6", the Subject Properties are located in the CZO Open District. The Subject Properties have been located in the CZO Open District since the adoption of the CZO.

c. Development Plan Area. The Subject Properties are located within the newly adopted West Kauai Community Plan Area. The Subject Properties are located in the Special Treatment Coastal Edge, as shown in Exhibit "C-7", which this Project necessitates a Use Permit and Class IV Zoning Permit.

d. Special Management Area. As shown on the Special Management Area Map attached as Exhibit "C-8", the Subject Properties are located within the Special Management Area ("SMA") of the County of Kauai. The Subject Properties have been located within the SMA since the adoption of the SMA Rules (December 17, 1979).

e. Shoreline/Shoreline Setback Area. The Subject Properties abut the shoreline and are located within the 500-foot shoreline setback threshold. The Applicant will comply with the shoreline setback requirements, which this Project necessitates a Shoreline Setback Variance as provided herein thus triggering the need for an EA.

f. Heritage Resources. As shown on the Heritage Resources Map attached as Exhibit "C-9", the Subject Properties are located within the Preserve Heritage Resources Designations (Updated to the Kauai General Plan, 2018).

g. Permits. The Subject Properties were subdivided via a Subdivision Application in 2006, which Exhibit "D-1" provides for the Final Subdivision Map. Further, the Subject Properties undertook Shoreline Certifications, which Exhibit "D-2" provides for the Certified Shorelines.

h. Violations. There are no known violations on the Subject Properties, except for minor grubbing that occurred on the northern boundary of the Subject Properties by the adjacent landowner.

IV. PROJECT PURPOSE AND NEED

The Applicant proposes the Project to establish a commercial boating facility to alleviate customer traffic from the existing Kikiaola Small Boat Harbor. The proposed residential dwelling units will be used by the Applicant for long-term residential use and/or worker housing. The Project will include the parking for an existing customer base for a licensed commercial boating operation, the storage of commercial boats and equipment, a customer intake area, and one (1) 1,000 square foot elevated residence on each of the respective Subject Properties.

V. DESCRIPTION OF THE AFFECTED ENVIRONMENT

The Subject Properties are located between the urban area of Waimea and the residential section of Kekaha. Kikiaola Small Boat Harbor, which was established by the State of Hawaii in 1959, lies southwest of the Subject Properties. The use of Kikiola Small Boat Harbor includes both commercial, recreational, non-commercial fishing, and sight-seeing boating activities. The use of the Subject Properties will be to facilitate an existing commercial boating operation and alleviate user impacts to Kikiaola Small Boat Harbor. There are also adjacent residential uses near the Project area.

VI. LAND USE IMPACTS

A. SLUC Urban District. The Subject Property is located within the SLUC Urban District. Permitted uses in the SLUC Urban District include commercial and residential uses.

B. General Plan Considerations.

1. Kauai General Plan Natural Land Use Designation. The Subject Properties are located in the Kauai General Plan Natural Land Use Designation and contemplates limited residential use and commercial uses with a use permit. The Subject Properties' zoning (Open District) allows for single-family dwelling units. As such, the Project complies with the Natural Land Use Designation.

2. Project's Compliance with Kauai General Plan Standards. The proposed use includes limited residential use, thereby the development itself will have no significant impact on the surrounding environment. The Project will include residential uses that are compatible with other uses in the area, as well as with the surrounding environment. The Project will also include limited commercial use for the intake of commercial boating activities to the adjacent Kikiaola Small Boat Harbor. As such, the Project complies with the Kauai General Plan policy for the Natural Land Use Designation in that it will help alleviate impacts to the Kikiaola Small Boat Harbor and will preserve, maintain and improve the natural characteristics of the area and will allow the area to remain predominantly free of development given the limited land coverage available and the requirement to place improvements mauka of the shoreline to the rear of the Subject Properties.

C. CZO Open District Considerations.

1. CZO Open District. The Project site is located within the CZO Open District. Uses in the CZO Open District are set forth in CZO Article 9, which provides in relevant part as follows:

"ARTICLE 9. OPEN DISTRICTS (O)

Sec. 8-9.1 Purpose.

(a) To preserve, maintain or improve the essential characteristics of land and water areas that are:

(1) of significant value to the public as scenic or recreational sources;

(2) important to the overall structure and organization of urban areas and which provide accessible and usable open areas for recreational and aesthetic purposes;

(3) necessary to insulate or buffer the public and places of residence from undesirable environmental factors caused by, or related to, particular uses such as noise, dust, and visually offensive elements.

(b) To preserve, maintain or improve the essential functions of physical and ecological systems, forms or forces

which significantly affect the general health, safety and welfare.

(c) To define and regulate use and development within areas which may be potentially hazardous.

(d) To include areas indicated on the County General Plan as open or as parks.

(e) To include areas clearly indicated on the County General Plan or on Zoning maps as "Special Treatment – Open Space" if an applicant represents to government authorities that any properties or areas within a development proposal or subdivision application will remain in either permanent open space or private park areas, or if the Council in the exercise of its zoning power requires as a condition of rezoning that an area be designated for permanent open space or private park. This does not preclude the Council from exercising its zoning authority as provided in Sec. 46-4, Hawai'i Revised Statutes. Within areas so designated, no uses, structures, or development inconsistent with such designation shall be generally permitted or permitted by use permit without express provision to the contrary. The Council is hereby authorized to make such factual determinations as necessary incident to this section.

(f) To provide for other areas which because of more detailed analysis, or because of changing settlement characteristics, are determined to be of significant value to the public.

2. Project's Compliance with CZO Open District Standards. Single-family detached dwelling units and accessory structures are Permitted Uses which are allowed pursuant to CZO Section 8-2.4(s). The Land Coverage on the Subject Property will not exceed the allowed 10% land coverage. The Project itself will have no significant impact on the surrounding environment. The Project will include commercial and residential uses that are compatible with other uses in the area, as well as with the surrounding environment. As such, the Project complies with CZO Section 8-9.1 in that it: will help to preserve, maintain and improve the natural characteristics of the area; will allow the area to remain predominantly free of development; and will be incidental to the use and open character of the surrounding lands.

D. West Kauai Community Plan Considerations.

1. Community Plan Goals and Objectives. The goals and objectives of the West Kauai Community Plan allow for single-family residences as housing. The residential component of the Project is intended to be a modest long-term rental property for employees of the boating operation or as a long-term rental in compliance with Section 1.1.010.C. Additionally,

the promotion of ocean recreation activities facilities the existing tourist-based activities in and near Kikiaola Small Boat Harbor providing jobs to local families and support to local businesses.

2. Project's Compliance with Development Plan Standards. The proposed Project will not conflict with any of the objectives contained in the West Kauai Community Plan. The design, layout and outside appearance of the Project is and will be compatible with the Future Land Use Map. Further, the limitation on land coverage merges this concept by limiting the developable area of the Subject Properties. As noted above, the Subject Properties and the location of the proposed residences and commercial boating activities are not located in the 3.2-foot anticipated sea level rise area and therefore is compliant with the new Special Treatment Coastal Edge overlay within the West Kauai Community Plan. (See, Exhibit "C-11").

E. Shoreline Setback Variance Standards.

1. Environmental Assessment. As described above, the Applicant prepared and submitted a Draft Environmental Assessment, which was posted on the Environmental Reporter on December 8, 2023. The proposed Final Environmental Assessment and Finding of No Significant Impact is pending posting with the Environmental Reporter. The draft Final Environmental Assessment described the Project and justification. The Finding of No Significant Impact is anticipated given the Project's minimal impact on the surrounding environment.

2. Shoreline Certification. As a requirement of the Final Environmental Assessment and Finding of No Significant Impact, the Applicant was approved a Certified Shoreline Survey Maps from the State of Hawaii, Department of Land and Natural Resources. (See, Exhibit "D-1" and "D-2") for a copy of the Certified Shoreline Survey Map approved by the Chair of the Board of Land and Natural Resources).

3. Project Justification. The Applicant proposes the Project to establish a commercial boating facility to alleviate customer traffic from the existing Kikiaola Small Boat Harbor. The proposed residential dwelling units will be used by the Applicant for long-term residential use and/or worker housing. The Project will include parking for an existing customer base for a licensed commercial boating operation, the storage of commercial boats and equipment, a customer intake area, and one (1) 1,000 square foot elevated residence on each of the respective Subject Properties.

4. Analysis of Coastal Erosion Rates and Sea Level Rise. As noted further below, the Project is within the Shoreline Setback Area given the coastal erosion data. The elevation of the Subject Properties range from approximately 2 to 8 feet above mean sea level. The land elevation of the proposed Project will be at the mauka end of the Subject Properties. As provided for in the Kikiola Coastal Assessment (Exhibit "F-1"), the shoreline fronting the Project site is 312 feet long backed by a beach berm. The beach fronting the Project site rises from the beach toe to a berm with an average slope of about 1 on 7 and an average width of 55 feet. The berm is made of compacted sand with a scarp along the face where waves eat away at the sand supply. Beach users standing on the top of the scarp also promote collapse of the materials. The top of the berm is at approximately +15 Mean Lower Low Water. The back of the berm contains some wind-blown sand and declines with a slope of about 1 on 3 to +9. A swale behind the berm would likely act as a natural drainage basin during heavy rains. Landward, the elevations rise

again to +16.5 feet and then decline to +10.5 feet at the roadway (Figure 2-16 of Exhibit "F-1"). The proposed structures associated with the Project will be placed landward of the swale on the high topography at +15. Therefore, although the Kauai Coastal Erosion rate notes an elevated erosion rate, the proposed setbacks will be 312 feet from the Certified Shorelines.

F. Open Coastal Edge, Use Permit, and Class IV Zoning Permit Standards.

1. Generally Permitted Uses And Structures. CZO Section 8-2.4(s) contains the Permitted Uses in the CZO Agriculture District, which include the following:

"(1) Accessory structures and uses

. . .

(9) Single family detached dwellings

. . .

2. Uses And Structures That Require A Use Permit. CZO Section 8-2.4(t) contains the Uses in the CZO Open District which require a Use Permit and include the following:

"(13) Outdoor recreation concessions

. . .

(14) Any other use or structure which the Planning Director finds to be similar in nature to those listed in this section and appropriate to the District."

3. Development's Compliance with CZO Open District Standards. The following proposed Project's residential uses are Uses Permitted with a Use Permit within the CZO Open District. However, the commercial component of the Project will require a Use Permit pursuant to CZO Section 8-2.4(t) for the related outdoor recreation concessions. The Development itself will have no significant impact on the surrounding environment given the intent of the Project is for staging and parking for an existing commercial operation already existing at the Kikiaola Small Boat Harbor. The Development will include uses that are compatible with other uses in the area, as well as with the surrounding environment given the adjacency of the proposed commercial boating site to the Kikiaola Small Boat Harbor. As such, the Development complies with CZO Section 8-9.1 in that it's minimal land coverage will help to preserve, maintain and improve the natural characteristics of the area.

4. Use Permit and Zoning Permit Considerations. Pursuant to CZO Section 3.2, the Applicant has applied for a Use Permit for the proposed Project. A Use Permit will be required for the commercial boating facility for the staging shuttling of patrons of the boating operation.

5. Compatibility With Surrounding Uses. To the north, south and west of the Subject Property are properties located within the SLUC Urban and Agricultural Districts, the CZO Open and Residential Districts. Uses on the surrounding lands include residential uses, agricultural uses, and commercial uses. The Subject Property is similar in topography, character and nature with adjacent and surrounding properties, and the Project activities supplement such surrounding uses.

6. Development's Compliance with CZO Use Permit Standards. The Development activities on the Subject Property are in compliance with the standards for Use Permits as contained in CZO Section 8-3.2 in that the Development will be:

- a. a compatible use;
- b. not detrimental to health of persons residing or working in the neighborhood;
- c. not detrimental to safety of persons residing or working in the neighborhood;
- d. not detrimental to peace of persons residing or working in the neighborhood;
- e. not detrimental to morals of persons residing or working in the neighborhood;
- f. not detrimental to comfort and general welfare of persons residing or working in the neighborhood;
- g. not detrimental or injurious to property or improvements in the neighborhood;
- h. not detrimental to the general welfare of the community;
- i. not a cause of substantial harmful environmental consequences to the Subject Property, or to other lands or waters;
- j. not inconsistent with the intent of Chapter 8, KCC; and
- k. not inconsistent with the General Plan.

7. Development's Compliance with CZO Class IV Zoning Permit Standards. The Applicant has complied with the procedural provisions for a Class IV Zoning Permit by its filing and processing of this Application.

G. SMA Considerations.

1. Recreational Resources. Other than beachgoing activities near the shoreline, there are no public recreational opportunities taking place on the Subject Properties. Therefore, the proposed Project will not have any negative impact on any public recreational opportunities located on properties adjacent to the Subject Properties. There are beach access easements along the makai portions of the Subject Properties. Therefore, the Project will have no direct impact on any existing public beach, river or mountain access.

2. Historic Resources. The proposed Project will not have any significant impact on historic, cultural or archaeological resources (if any) located on or near the Subject Properties. The Project is proposed on a recently approved subdivision. The Applicant performed Archeological Assessment (See, Exhibit "F-3"), which included test trenching, as provided below, in the proposed footing locations of the structures and Exploration Associations, Ltd. did not find any cultural deposits. Additionally, the Applicant's consultant noted nothing was observed on the

surface to indicate the presence of subsurface cultural deposits; and while not an impossibility, given the prior ground disturbance on the Subject Properties, and the minimal depth of footings for the post on pier construction, the Applicant will comply with HRS Chapter 6E should any cultural deposits be found.

3. Scenic and Open Space Resources. The proposed Project will have only minor impacts on the scenic and open space resources on and around the Subject Property. Any visual impacts from Kaumuali'i Highway will be sufficiently mitigated with landscaping and earth tone colors and non-reflective windows. (See, enclosed Exhibits "E-1" and "E-2"). The Project will be compatible with and blend into the earth-toned colored structures in the surrounding area.

4. Economic Uses. The Subject Properties will be developed for commercial and residential purposes. The proposed Project will create long term economic benefits associated with the construction of the improvements and long-term benefits by providing jobs in the boating industry. The proposed Project will not have any negative impacts on the economy.

5. Managing Development/Public Participation. The Project activities on the Subject Properties are complimentary to, and consistent with, present and future coastal zone development in this area of Kauai.

6. Compatibility With Surrounding Uses. The Subject Properties are surrounded by properties located within the SLUC Urban District and the CZO Open District. Uses on the surrounding lands include residential uses and commercial uses. The Subject Properties are similar in topography, character and nature with adjacent and surrounding properties, and the Project activities are consistent with such surrounding uses.

7. Project's Impacts Within SMA. The Project will have no negative impacts on the SMA. The Project is and will be compatible with existing uses in areas on or around the Subject Properties. The Project will not negatively impact scenic or open space resources within the SMA. The Project will not increase runoff or otherwise endanger the coastal ecosystem. The Project will have no detrimental impact on recreational, historic, or economic resources. The Project will not have detrimental impacts on beach or marine resources. Approval of the Project will not result in the foreclosure of future management options for development in the area. The design, siting, and landscaping of the Project as proposed will ensure that the proposed Project recognizes, preserves, maintains and contributes to the characteristics of the surrounding lands (which lands are recognized to be of particular significance or value to the general public). In particular, the Project will be compatible with, and will protect, the unique natural forms of, biologic systems contained within, and aesthetic characteristic of, the SMA.

The Project activities on the portions of the Subject Properties within the SMA fulfill the provisions of the SMA Rules in that:

a. The Project will have no effect on public access to publicly owned or used beaches and recreational areas.

b. The Project will not detrimentally affect any wildlife or endangered plant or animal species which may be located at this site.

c. Provisions for solid and liquid waste treatment, disposition and management will be developed in order to minimize adverse effects on the Special Management Area.

d. Alteration to existing landforms or vegetation and the construction of structures will cause minimum adverse effects to water resources and scenic and recreational amenities, and will minimize danger of floods, wind damage, storm surge, landslides, erosion, siltation, or failure in the event of earthquake.

e. The Project will not require dredging, filling, or altering any bay, estuary, salt marsh, river mouth, slough or lagoon.

f. The Project will not reduce the size of any beach or other area useable for public recreation.

g. The Project will not reduce or impose restrictions upon public access to tidal and submerged lands, beaches, portions or rivers or streams within the Special Management Area and the mean high tide line where there is no beach.

h. The Project will not substantially interfere with or detract from the line of sight toward the sea from the State highway nearest the coast.

i. The Project will not adversely affect water quality, existing areas of open water free of visible structures, existing and potential fisheries and fishing grounds, wildlife habitats, or potential or existing agriculture uses of land.

j. The Project will not have any substantial environmental or ecological effect, except as such adverse effect is minimized to the extent practicable and clearly outweighed by public health, safety, or compelling public interests.

k. The Project is consistent with the objectives, policies, and guidelines set forth in HRS Chapter 205A and Sections 3.0 and 4.0 of the SMA Rules.

l. The Project is consistent with permitted uses in the SLUC Urban District, the Kauai General Plan, the West Kauai Community Plan, and the CZO.

VII. SITE IMPACTS

A. Topography. The elevation of the Subject Properties range from approximately 2 to 8 feet above mean sea level. The land elevation of the proposed Project will be at the mauka end of the Subject Properties. As provided for in the Kikiola Coastal Assessment (Exhibit "F-1"), the shoreline fronting the Project site is 312 feet long backed by a beach berm. The beach fronting the Project site rises from the beach toe to a berm with an average slope of about 1 on 7 and an average width of 55 feet. The berm is made of compacted sand with a scarp along the face where waves eat away at the sand supply. Beach users standing on the top of the scarp also promote collapse of the materials. The top of the berm is at approximately +15 Mean Lower Low Water. The back of the berm contains some wind-blown sand and declines with a slope of about 1 on 3

to +9. A swale behind the berm would likely act as a natural drainage basin during heavy rains. Landward, the elevations rise again to +16.5 feet and then decline to +10.5 feet at the roadway (Figure 2-16 of Exhibit "F-1"). The proposed structures associated with the Project will be placed landward of the swale on the high topography at +15.

B. Flora and Fauna. Vegetation within the Subject Properties primarily consists of kiawe, beach heliotrope, and beach wiregrass (See, Exhibit "F-1", Figure 2). Kiawe is categorized by the State of Hawaii as an invasive noxious weed. The nearshore areas of the Subject Properties also contain dwarf naupaka and Carter's panicgrass.

All plantings directly in the Project area are Kiawe and grasslands, which are not threatened, rare or endangered. During installation of the Project, if any native and other coastal plant species in the region are identified, they will be relocated and planted on undeveloped portions of the Subject Properties. Any other vegetation that is impacted will be temporarily removed and replanted on completion of work. Landscape maintenance will continue in all areas during the construction period. Nature-based features (NNBF) refers to the use of landscape features to produce flood risk management benefits. NNBF projects may also produce other economic, environmental, and social benefits. These landscape features may be natural (produced completely by natural processes) or nature based (produced by a combination of natural processes and human engineering). Landscape features can be used alone, in combination with each other, and in combination with conventional engineering measures such as revetments, seawalls, and other structures.

A large portion of the Subject Properties are covered in invasive kiawe with thorns that are sharp and unpleasant to walk through. Thorns are also a hazard to the proposed future use of the property as they can pierce tires and shoes of visitors. Replacement of the vegetation with native species appropriate for the environment can improve the aesthetics of the property, ease of access to the shoreline, and also provide coastal hazard mitigation.

Coastal erosion along the seaward edge of the Subject Properties can be slowed by planting appropriate vegetation species with root systems to hold sand in the berm together and can help capture wind-blown sand. On exposed ocean coasts subject to significant wave energy, vegetation alone is typically not sufficient to resist wave-induced erosion. While a strong vegetation root system can slow down the erosion rate and the vegetation itself can help dissipate overtopping waves, in most cases, vegetation is quickly overcome by the erosional forces. However, used in conjunction with stronger conventional erosion control/shore protection methods, vegetation can function to help stabilize low-lying ground behind the primary shore protection structure.

Maintaining the existing swale and earthen levee on the property can allow water to accumulate during storm events as a stormwater retention wetland with vegetation that can absorb the water and stabilize soils.

The coastal area on the Subject Properties can be thought of as four zones for Xeriscape landscape planning (See, Exhibit "F-1", Figure 5-1):

- Zone 1 - No irrigation or landscaping is allowed seaward of the certified shoreline because this would encourage encroaching vegetation, which inhibits public access and interferes with coastal processes.

- Zone 2 - Low-lying and loosely bound grasses and vines.

- Zone 3 - Low-lying grasses and vines transition to, or combine with, low-growing shrubs.

- Zone 4 - Larger woody shrubs or shade trees.

Species suggested for the Project area are listed in Table 5-1 of Exhibit “F-1”. Additional species can be found in the Hawaii Dune Restoration Manual. New plantings will generally require some irrigation for the first few months in order to get established. Vegetation monitoring would be needed to ensure stability and persistence of any new plant species and removal of invasive species as they appear.

C. Biological Resources. There are no threatened, rare or endangered animal species that are known to occur within the proposed Project area. Avian species observed on the Subject Properties are red jungle fowl, spotted dove, great frigate bird, brown booby, cattle egret, warbling white-eye, common myna, African silverbill, scaly-breasted munia, house sparrow, house finch, northern cardinal, red-crested cardinal, saffron finch, and pacific golden fowl.

Minimal noise is anticipated. Some birds and rodents may be temporarily displaced during construction, but are anticipated to be accommodated in shoreline vegetation. No sensitive habitat areas have been identified within the Project site.

D. Beach Resources. The island of Kauai, the northernmost major island in the Hawaiian chain, is fourth in size with a total area of 620 square miles. The island is roughly circular in shape, with a coastal plain along most of the coast except for the rugged Na Pali cliffs on the northwest shore. The project site is within the town of Kekaha on the southwest coast of Kaua’i (See, Exhibit “F-1”, Figure 2-1). Kekaha is located on a drained wetland and was founded as a plantation town. Groundwater in the areas surrounding Kekaha is currently pumped to keep the area dry. Today, Kekaha’s town center is dotted with a post office, small commercial uses, schools, and inactive shop fronts lacking multimodal infrastructure. There is no wastewater infrastructure in Kekaha, so residences and businesses rely on individual wastewater treatment systems. Kaunualii Highway (State Highway 50), which runs adjacent to the project area, provides the only access. East of the project area is the Park Hook Tong Chinese Cemetery, Waimea Japanese Cemetery, and the Kikiaola Small Boat Harbor with four moorings, a loading dock, boat ramp, picnic area, washdown station, and public restrooms. Drone aerial images of the Project area show kiawe trees, a paved driveway, murky nearshore conditions, and an erosion scarp along the seaward edge of the lots (See, Exhibit “F-1”, Figure 2-2 through Figure 2-5).

The shoreline fronting the Project site is 312 feet long backed by a beach berm (See, Exhibit F-2”, Figure 2-6) (See also Exhibit “C-10”). The scarp on the seaward edge of the berm is 2 to 4 feet tall (See, Exhibit “F-1”, Figure 2-7). Nearshore waters are typically turbid with strong wave-generated alongshore currents. The coastal waters are designated as Class “A” according to the State of Hawaii Water Quality Classification Standards. Turbidity in the area tends to be characteristically high due to runoff from the Waimea River and high wave action and is monitored

by the Clean Water Branch (See, Exhibit "F-1", Figure 2-8). High turbidity was confirmed by observations in September 2022. A nearshore reconnaissance found the bottom to be sparsely covered with patches of algae. The nearshore is classified by the U.S. Fish & Wildlife Service as an M2USP estuarine and marine wetland that is intertidal and irregularly flooded.

Beach widths east of the nearby Kikiaola Small Boat Harbor are much larger than those on the west side. Since the Kikiaola boat harbor was built in 1959, there has been downdrift erosion along the shoreline fronting the subject properties. The updrift (east) side of the harbor has prograded over 100 meters seaward while the shoreline down drift (west) of the harbor has retreated over 60 meters losing about 50% of its sand volume. United States Army Corps of Engineers investigations identified the littoral impacts of the Boat Harbor to the down-drift shoreline as 3,000 to 6,000 cubic yards of sand per year (SEI and Group 70, 2008).

In 2014, in order to replenish Kikiaola Beach fronting the subject properties on the downdrift side of the Harbor, 45,000 cubic meters of sand was moved, by excavator and truck from Waimea Beach east of the harbor to the 0.3 km portion of Kikiaola Beach immediately west of the harbor (See, Exhibit "F-1", Figure 2-10, Figure 2-11). Monitoring found that the sand excavation sites on the updrift side regained their morphology, but have not regained sand volume (Molina, 2019). It took 65 years for the updrift beach to build up, via alongshore sediment transport, so it is likely that it will take many years to build up once again. Over 2014-2016, the sand placement area maintained a moderate degree of stability; however, since that time it has begun to display erosion of the bypass sand pile (Molina, 2019). The 0.5 km portion of Kikiaola Beach west of the sand placement area displayed only minor fluctuation in beach character, suggesting a lack of impact of the replenishment program on the beach's down drift portion more than two years following the bypass operation.

There seems to be no sediment exchange between Kikiaola Beach and Kekaha Beach due to the rocky headland at Oomano Point west of the project area. This is evidenced by the distinct sand characteristics on either side of the point: terrigenous sediment to the east and calcareous sediment to the west. The Kekaha area is the most arid portion of Kauai receiving on average 19.4 inches of rainfall each year. Nearly all of the streams that drain the mountains of Waimea have been channelized and redirected toward Waimea town by the Waimea and Kekaha irrigation ditches. The soils within the project area are characterized by the USDA as Jacus loamy fine sand (See, Exhibit "F-1", Figure 2-12, USDA, 2019). Loamy fine sand is 50% or more of fine sand or less than 25% very coarse, coarse, and medium sand plus less than 50% very fine sand. Along the seaward edge of the parcels is a beach backed by a berm (See, Exhibit "F-1", Figure 2-13).

On September 27, 2022, a sand sample from the shoreline berm was collected (See, Exhibit "F-1", Figure 2-14). The sample was sent to a lab for a grain size analysis using mechanical analysis and standard sieves. The gradation curve for the grain size distribution is shown in Exhibit "F-1", Figure 2-15. The medium grain-size diameter was 0.25 mm. The sand, with a uniformity coefficient of 2.37, can be described as poorly graded, medium grain, volcanoclastic beach sand with detrital content. The sediment was found to have 3.8% fines (defined as the #200 sieve, 0.074 mm), 0.1% coarse sediment (defined as the #4 sieve, 4.76 mm), and 18% of its mass less than the 0.149 mm (#100) sieve.

E. Air Quality/Noise. The Project will have little or no impact on the air quality and ambient noise levels in the area. Air quality and ambient noise levels may be affected at a very minimal level during the Development activities. All vehicles or equipment used by the Applicants for the prior construction will be properly muffled, housed and maintained to reduce any noise impacts or emission impacts. The Environmental Protection Agency (EPA) and State of Hawaii air quality standards will not be exceeded.

F. Flooding and Drainage. The proposed Project is within Flood Zone XS, as shown on the County of Kauai's flood insurance rate map (Flood Insurance Rate Map 1500020254F) attached as Exhibit "C-9". The Subject Property is located almost entirely within the Flood Zone XS and the Project will meet all of the requirements of the Flood Plain Management Ordinance of the County of Kauai, as contained in Chapter 15, Article 1, of the Kauai County Code, 1987. All drainage resulting from construction activities and from the increase in land coverage will be retained on site and subject to best management practices. No additional drainage is anticipated to significantly or negatively impact the surrounding properties.

G. Utilities. The Subject Properties currently obtains water service from the County of Kauai, Department of Water. The Subject Property obtains electric service from Kauai Island Utility Cooperative, and communication services from either Spectrum or Hawaiian Telcom, Inc. Existing electric and communications facilities are presently adequate to provide the demand for such services that will be generated by the proposed Development.

H. Wastewater Treatment and Disposal. The Subject Properties will install private individual wastewater systems (septic tanks and leach fields) as required by the Department of Health in order to dispose of wastewater. There are no sewer facilities available to the Subject Properties.

I. Solid Waste Disposal. Solid waste collection will be provided by the County of Kauai and by private means. Solid waste will be taken to the County's Transfer Stations for disposal in the County Landfill.

J. Governmental Services. The Project will have the following impacts on governmental services:

1. Fire and Police Services. Fire and police services in the vicinity are located in Waimea, approximately two (2) miles from the Subject Properties. The Project will not significantly increase the need for existing fire and police services.

2. Schools. The closest schools are Kekaha Elementary School located in Kekaha, and Waimea Canyon Middle School and Waimea High School, both of which are located in Waimea. The Project will not generate any significant additional enrollment.

K. Economics. The Project will have the following economic impacts:

1. Jobs. The Project will result in the creation of approximately five (5) temporary job positions (during construction).

2. Housing. The Project will not result in the need for additional housing, as all persons working on the Project will be Kauai residents.

3. Property Values. Since the fair market value of real property is based on the value of the land and physical improvements, the completion of the Project will increase the value of the Subject Properties. This will result in an increase real property taxes on the Subject Property, and increase revenues to the County of Kauai.

L. Population. The Project will not result in an increase in population.

M. Traffic Circulation. The major road which services the Subject Properties is Kaumuali'i Highway. The Project will distribute access to the Subject Properties to a single driveway but will not in and of itself increase traffic on these roads.

N. Heritage Resources. The Subject Properties are located within the Preserve Heritage Resources Designation (Update to the Kauai General Plan, 2018). The Heritage Resources of Kauai include natural, cultural and scenic resources. The proposed Project will not significantly affect any of these resources.

VIII. NATIVE HAWAIIAN ISSUES.

A. Cultural Impacts. A Ka Pa'akai Analysis for Lots 64 and 65 of Land Court Application 1076, Map 35 located in Kikiaola, Waimea Ahupua'a, Kona District, Island of Kaua'i, TMK Nos. (4) 1-2-013:039 and 040, has been prepared by Nancy McMahon, M.A., MEd, MS of Exploration Associates Ltd. ("EAL") for the Subject Property, a copy of which is attached hereto as Exhibit "F-2".

B. Recommendations. The Ka Pa'akai Analysis contains the following findings and recommendations:

1. Document Purpose. The project requires compliance with the State of Hawai'i environmental review process Hawai'i Revised Statutes ("HRS") Chapter 343, which requires consideration of a proposed project's effect on cultural practices and resources. Through document research and cultural consultation efforts, this report provides information pertinent to the assessment of the proposed project's impacts to cultural practices (per the Office of Environmental Quality Control's Guidelines for Assessing Cultural Impacts). This document is intended to support the project's environmental review and may also serve to support the project's historic preservation review under HRS Chapter 6E-42 and HAR Chapter 13-284.

2. Community Consultation. Interviews with Native Hawaiian kupuna or elders, cultural practitioners, and individuals from the Waimea, Kekaha, and Kikiaola communities were conducted to identify persons who potentially have knowledge of traditional Hawaiian sites, resources and cultural practices in or adjacent to the Project area.

3. Results of Background Research. Background research for this Project yielded the following results:

(1) Kikiaola is an *'ili* located in the Waimea *ahupua'a*, the largest *ahupua'a* on the Island of Kaua'i. The Waimea *ahupua'a* is composed of several diverse regions, including the Waimea River Canyon, Kōke'e uplands, Alaka'i Plateau, Mānā Plain, and coastal valleys of Nu'alolo and Miloli'i. Kikiaola is generally associated with the broader Kekaha region (described as either an *ili* of Waimea or a distinct *ahupua'a*), which is an arid area with low annual rainfall and no permanent streams.

(2) The Project area is generally associated with *mo'olelo* (legends, oral histories) about the 'auwai named Kikiaola, commonly known as Menehune Ditch. Additionally, Kikiaola is mentioned in a Hawaiian legend regarding the Howea heiau in Waiawa, Pele and Hi'iaka, and Hawaiian chants regarding the winds of Kaua'i. There are no surviving legends or traditional accounts specific to the Subject Properties.

(3) Despite its arid climate, Kikiaola and the broader Kekaha region were permanently inhabited and intensively utilized in pre-Contact times. The area was used for dry land and irrigated agriculture, including taro and *wauke* (Mulberry). Early Land Commission Awards requests also indicate salt beds and at least one fishery. Later, the area was primarily used for cultivation of rice and sugarcane.

(4) Past archaeological studies in Kikiaola have documented several historic properties representing use of the landscape as a cultural resource, including burial sites SIHP # 50-30-05-1853 and 50-30-05-1854 by Waimea Plantation Cottages, burial site SIHP # 50-30-05-3911 at Aloha Kaua'i Villas (4491 Kikiaola Place), and burial site SIHP # 50-30-05-3941 at Kekaha House Lots (TMK: (4) 1-3-05:45). Prior archaeological studies indicate that burials are commonplace in the sandy dunes of Kaua'i.

(5) Significant habitation activity is indicated approximately 500 meters to the east of the project area, but no development is shown in the immediate vicinity of the project area. Although radiocarbon dating from several projects documents a human presence in this area, archaeological evidence is severely limited due to intensive historic and modern activities such as commercial sugarcane cultivation.

(6) No historic properties have been identified within the Project area. However, a Chinese Cemetery (SIHP # 50-30-05-613) and Japanese Cemetery (SIHP # 50-30-05-612) sit just east of the Project area.

(7) Although no *heiau* have been described within or in the immediate vicinity of the project area, several *heiau* have been documented in the larger Kekaha/Waimea area, including Howea, Makahoa, Kahelu, Ho'one'enu'u, and Hau'ola *heiau*.

(8) Field investigations of the Project area resulted in no evidence or findings of significant plants or natural resources associated with Hawaiian gathering rights for subsistence, cultural or religious practices. The project area has non-native vegetation.

(9) Early visitors to the Waimea *ahupua'a* describe the use of canoes and surfboards for purposes of fishing, surfing, and transportation. These activities are not restricted by development of the Project area because a lateral easement for public pedestrian access purposes is recorded in the subdivision map and alternate public access to the nearshore area is reasonably accessible.

(10) Over one hundred fifty (150) *kuleana* awards were granted in the Waimea *ahupua'a* and fifteen (15) were awarded in Kikiaola. Most of the land in this area was a part of Crown and Government Land. The current Project area is a portion of 565.56 acres granted to Reverend George B. Rowell in the mid-nineteenth century. The three Land Commission Award ("LCA") Parcels located nearest to the project area are: LCA 387:2 to American Sandwich Island Mission; LCA 362:1, 3 to Naumu; and LCA 7713:42 to V. Kamamalu. None are located in the immediate vicinity of the Project area.

4. Results of Community Consultation. EAL spoke with thirteen (13) community members with personal ties to Kikiaola for the purposes of this Ka Pa'akai Analysis. Community consultation for this Ka Pa'akai Analysis indicates:

(1) Many participants were aware of the project and very supportive, and none had concerns that the project would impact traditional and customary practices.

(2) Despite various mo'olelo and wahi pana relating to the Kekaha region, no ongoing Native Hawaiian cultural resources or practices were identified in the project area.

(3) The Project area and vicinity may contain surface and subsurface cultural and historic properties, including human burials.

(4) Since the construction of the Kikīaola Small Boat Harbor no one fishes offshore from the Project. Local fishermen support the proposed Project due to its potential to decrease visitor traffic and increase local parking access at Kikiaola Small Boat Harbor.

5. Mitigations. Although initial inspections and subsurface tests yielded negative findings, prior archaeological findings in the surrounding area suggest that the proposed action for Kikiaola may negatively impact Hawaiian beliefs, resources and practices, particularly with regard to the disturbance of burials or *iwi kupuna*. A good faith effort to develop appropriate measures to address concerns and attention to the following recommendations may help mitigate potentially adverse effects of the proposed project on cultural, historic and natural resources in and near the Project area. Based on the findings of this Ka Pa'akai Analysis, it is recommended that:

(1) Project proponents address concerns presented by Ka Pa'akai Analysis participants by avoiding harm as result of ground disturbance to cultural and natural resources (e.g., burials). Minimizing digging in order to prevent disturbance of burials is recommended.

(2) The proposed project proceeds under an archaeological monitoring program that utilizes a combination of on-site and on-call monitoring. As suggested in the companion Archaeological Inventory Survey (AIS) (See, Exhibit "F-3"), due to the sensitive nature of the project area and the potential for project related ground disturbance during construction, a monitoring program would facilitate the identification and documentation of any historic properties that might be discovered during project construction. More specifically, it is suggested that an archaeological monitor be present during all subsurface activities involving deeper excavation work (i.e., septic system). If on-site monitoring continues to yield no subsurface finds, monitoring might be amended from on-site to on-call, with agreement from an SHPD.

(4) The owner be responsible for maintenance and upkeep of vegetation to prevent overgrowth of invasive species.

(5) Generally, it is recommended that Project proponents pursue proactive dialog with concerned Kekaha/Waimea community members and agencies regarding planning, implementation and maintenance of the proposed construction project in order to address issues raised by study participants in this Ka Pa'akai Analysis.

IX. ALTERNATIVE ANALYSIS DISCUSSED IN THE DEA

As provided for in Exhibit "F-1", the following alternative actions were discussed:

Alternative # 1. Complete the Project as proposed with only the commercial boating facility to alleviate congestion at the Kikiaola Small Boat Harbor. This alternative will support alleviating the existing traffic at the harbor; however, removal of the residential dwellings will eliminate opportunities for long-term housing and/or employee housing.

Alternative #2. Complete the Project as proposes with only the residential dwelling units. The residential dwelling units will be limited to 1,000 square feet given the Shoreline Setback Variance requirements and therefore be modest in nature. These residential dwelling units will support the housing needs of the westside community; however, removing the commercial boat facility will eliminate opportunities to alleviate customer traffic at the Kikiaola Small Boat Harbor.

Alternative # 3 The No-Action Alternative is Alternative 3. Leaving the Subject Properties vacant will eliminate the opportunities to relieve traffic from Kikiaola Small Boat Harbor and to provide needed housing in the Kekaha area. This no action alternative will not support mitigating impacts to Kikiaola Small Boat Harbor and the current need for employee and/or long-term housing.

X. GENERAL DESCRIPTION OF THE ACTION INCLUDING ENVIRONMENTAL AND SOCIOECONOMIC CHARACTERISTICS

The Project should have minimal to no significant environmental and social impacts. The Project will provide commercial boating activity-related job opportunities and employee housing. The siting of the Project was selected to minimize impacts to the nearshore areas and is retreated to mauka side of the Subject Properties as required by the Shoreline Setback Variance requirements. The siting of the Project as far away from the shoreline area will preserve beach access and coastal activities on the nearshore areas of the Subject Properties. This preservation of beach access will continue to provide beach goers and cultural practitioners access along the beach access corridor.

XI. MITIGATION MEASURES

The Applicant anticipates no specific major negative impacts from this Project. The contractor associated with the Project will be required to minimize negative impacts by implementing best management practices. The contractor will be required to install erosion control measures such as silt fencing and storm drain protective devices where appropriate during the construction period. The contractor shall prevent storm water from the open construction area from directly entering the ocean. Lastly, open excavations shall be fenced off or covered when the contractor has left the site.

XII. ANTICIPATED DETERMINATION

The applicant anticipates a Finding of No Significant Impact (FONSI).

XIII. FINDINGS AND REASONS SUPPORTING ANTICIPATED DETERMINATION

The entirety of the Subject Properties are within the Shoreline Setback Area. The County of Kaua'i Shoreline Study Erosion Map for this area (See, Exhibit "C-10") shows that the shoreline fronting the Project area as an eroding shoreline. However, given the depth of the Project area as approximately 312 feet from the certified shoreline, there are no anticipated impacts to the shoreline. Further, the design and setback of the proposed structures will be developed to be resilient to any anticipated coastal hazards.

There are no rare, endangered or threatened species that will be impacted by this Project. There are no historical or cultural features that will be impacted by this Project as evidenced by the archeological and cultural reviews by the Applicant's consultants.

The Project alleviates impacts to the adjacent Kikiaola Small Boat Harbor and provides opportunities for housing for employees of the commercial boating operation.

This Project does not impact public coastal access, which is guaranteed by a coastal accessway fronting this Project area and designated easements, and which is occasionally used by shoreline anglers. That coastal accessway is not within the work area and will not be impaired either during or after construction.

Construction of the Project will ensure that any threat of dust or runoff is minimized. As provided above, best management practices will be employed by the contractor.

This Project meets the requirements of the state Coastal Zone Management Act and the county Special Management Area Rules and Regulations and Shoreline Setback Variance requirements.

XIV. CONCLUSION.

The Applicant respectfully requests that the Planning Commission:

1. Find that the Project will not have any substantial environmental or ecological effect, except as such adverse effect is minimized to the extent practicable and clearly outweighed by public health, safety, or compelling public interest.
2. Find that the Project is consistent with the objectives, policies, and guidelines set forth in Hawaii Revised Statutes Chapter 205A and Sections 3.0 and 4.0 of the SMA Rules.
3. Find that the Project is consistent with permitted uses in the SLUC Urban District, the Kauai General Plan, the West Kauai Community Plan (Open Coastal Edge), and the CZO Open District.

4. Approve the issuance of a Shoreline Setback Variance, SMA Use Permit, Use Permit and Class IV Zoning Permit for the Project on the Subject Property as described herein, subject to such reasonable conditions as the Planning Commission shall impose.

DATED: Lihue, Kauai, Hawaii, 1/17/2024.

BELLES GRAHAM LLP

By 

IAN K. JUNG

Attorney for Applicant, NATHANIEL FISHER

DEPARTMENT OF PLANNING

KA'ĀINA HULL, DIRECTOR

JODI A. HIGUCHI SAYEGUSA, DEPUTY DIRECTOR



DEREK S.K. KAWAKAMI, MAYOR
REIKO MATSUYAMA, MANAGING DIRECTOR

February 15, 2024

Director
Office of Environmental Quality Control
Department of Health, State of Hawai'i
235 S. Beretania Street, Room 702
Honolulu, Hawai'i 96813

Dear Director:

With this letter, the County of Kaua'i, Department of Planning hereby transmits the final environmental assessment and finding of no significant impact (FEA-FONSI) for the construction of a commercial boating facility and two (2) dwellings situated at (4) 1-2-013:039 and 040, in the Waimea District on the island of Kaua'i for publication in the next available edition of the Environmental Notice.

The Department of Planning has included copies of public comments and the corresponding responses from the applicant that were received during the 30-day public comment period on the draft environmental assessment and anticipated finding of no significant impact (DEA-AFONSI).

Enclosed is a completed OEQC Publication Form, two copies of the FEA-FONSI, an Adobe Acrobat PDF file of the same, and an electronic copy of the publication form in MS Word. Simultaneous with this letter, we have submitted the summary of the action in a text file by electronic mail to your office. If there are any questions, please contact Romio Idica of my staff at (808) 241-4056.

Sincerely,

Jodi Higuchi-Sayegusa
Deputy Director

Enclosures
C: Applicant

**FINAL ENVIRONMENTAL ASSESSMENT
For
COMMERCIAL BOAT FACILITY AND RESIDENTIAL DWELLINGS**

**LOT NOS. 64 and 65
TMK NOS. (4) 1-2-013:039 and 040**

**Prepared for
County of Kaua'i Department of Planning**

**Prepared by
Belles Graham LLP
3135 Akahi Street, #A
Lihue, Hawaii 96766**

January 2024

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LIST OF ACROYNMS

BMP Best Management Practice
CZM Coastal Zone Management dBA Decibel (A-weighted)
DEA Draft Environmental Assessment
DOH Department of Health
FEA Final Environmental Assessment
FEMA Federal Emergency Management System
FONSI Finding of No Significant Impact
HAR Hawai‘i Administrative Rules
HDOH State of Hawai‘i Department of Health
HRS Hawai‘i Revised Statues
SMA Special Management Area
SSD Shoreline Setback Determination
SSV Shoreline Setback Variance
SHPD State of Hawai‘i Historic Preservation Division
TMK Tax Map Key

EXHIBIT LIST

Exhibit "A-1"	– Applicant Authorization
Exhibit "A-2"	– Owner Authorization
Exhibit "B-1"	– Lot 64 Title Report
Exhibit "B-2"	– Lot 65 Title Report
Exhibit "C-1"	– Location Map
Exhibit "C-2"	– Tax Map
Exhibit "C-3"	– Land Court Map
Exhibit "C-4"	– State Land Use Map
Exhibit "C-5"	– General Plan Map
Exhibit "C-6"	– CZO Map
Exhibit "C-7"	– West Kauai Community Plan Map
Exhibit "C-8"	– SMA Map
Exhibit "C-9"	– Heritage Resources Map
Exhibit "C-10"	– Kauai Coastal Erosion Study
Exhibit "C-11"	– Sea Level Rise Constraint District Map
Exhibit "D-1"	– Subdivision Map
Exhibit "D-2"	– Shoreline Certification
Exhibit "E-1"	– Lot 64 Plan Set
Exhibit "E-2"	– Lot 65 Plan Set
Exhibit "F-1"	– Kikiaola Coastal Assessment Report
Exhibit "F-2"	– Ka Pa'akai Analysis
Exhibit "F-3"	– Archeological Assessment
Exhibit "G-1"	– DOH Comments
Exhibit "G-2"	– Community Responsive Letter
Exhibit "G-3"	– Community Responsive Letter
Exhibit "G-4"	– Community Responsive Letter
Exhibit "G-5"	– Community Responsive Letter
Exhibit "G-6"	– Community Responsive Letter

I. INTRODUCTION: PROJECT SUMMARY

Project Name: Commercial Boat Facility and Residential Dwellings

Owner/Applicant: Hokuaina Development LLC, a Hawaii limited liability company
Nathaniel Fisher

Approving Agency: Kaua'i County Planning Department

Project Location: Lots 64 and 65 of Land Court Application No. 1076 (Map 35)
Kekaha, Kaua'i TMK Nos.: 1-2-013:039 and 040

State Land Use: Urban

County of Kaua'i Zoning: Open District

General Plan Designation: Natural Designation

Determination of EA: A Finding of No Significant Impact (FONSI)

Agencies and Parties Consulted during Draft EA included:

State of Hawaii Department of Health
State of Hawaii Accounting and General Services
State of Hawaii DLNR State Historic Preservation Review
Kaua'i County Planning Department

Process Employed in Preparation of Draft EA:

In anticipation of approval of updated Environmental Assessment regulations, this Environmental Assessment has been performed under the provisions of Hawai'i Administrative Rules, Title 11, Department of Health, Chapter 200.1, Environmental Impact Statement Rules, Subchapter 9

II. SUMMARY OF PROPOSED ACTION

Nathaniel Fisher ("Applicant") proposes to construct a Commercial Boat Facility and two (2) Residential Dwellings on properties identified as Lot Nos. 64 and 65 of Land Court Application No. 1076 (Map 35), and further identified as TMK Nos. (4) 1-2-013:039 and 040 (collectively "Subject Properties"). (See, Exhibit "A-1" for the Applicant's Authorization). Lot 64 is allocated 1.112 acres and Lot 65 is allocated 1.188 acres. The Subject Properties are currently owned by Hokuaina Development LLC, a Hawaii limited liability company and the Applicant is under contract to purchase the Subject Properties. (See, Exhibit "A-2" for the Owner's Authorization). The ownership of the Subject Properties are reflected in Exhibits "B-1" and "B-2", respectively.

The Applicant proposes to construct a Commercial Boat Facility and two (2) Residential Dwellings (collectively "Project") on the northern (mauka) side of the Subject Properties to comply with the

Section 27 of the Kauai County Code, Chapter 8, Comprehensive Zoning Ordinance ("CZO"). The purpose of the Project is to provide alternative boating facilities for a commercial boating operation at Kikiaola Small Boat Harbor whereby patrons will park, check-in, gear up and load up to depart to board vessels at Kikiaola Small Boat Harbor for commercial boat tours. Additionally, the Application proposes two (2) residential dwelling units to accompany the commercial boating facility for residential, employee housing and/or long-term rental use. The proposed improvements are collectively referred to as the "Project".

The proposed Project consists of the following on the Subject Properties: Lot 64, 1) Single-family Dwelling Unit (1,000 square feet); 2) Boat Shed (2,160 square feet), Gravel Parking, Driveway, Fencing, and related Site Utilities; and Lot 65, 1) Single-family Dwelling Unit (1,000 square feet); 2) Boat Shed (2,160 square feet), Gravel Parking, Driveway, Fencing, and related Site Utilities. Attached as Exhibits "E-1" and "E-2" are the Project Plan Sets for the respective Subject Properties.

SMA (Shoreline Management Area) Use Permit will be required for the Project. The proposed Project will also require a Shoreline Setback Variance (SSV) as required by the Planning Department of the County of Kaua'i (Planning Department). A Use Permit and Class IV Zoning Permit are also required for the Project.

This Final Environmental Assessment (FEA) has been performed under the provisions of Hawai'i Administrative Rules, Title 11, Department of Health, Chapter 200.1, Environmental Impact Statement Rules, Subchapter 9 Preparation of Environmental Assessments: This FEA provides a framework to address the potential impacts of the proposed project on the designated SMA boundary.

The county Planning Department, in informal consultation with the Applicant, has indicated that an Environmental Assessment is required for this Project. This FEA evaluates the existing environmental conditions and potential environmental impacts resulting from the proposed project, as well as the mitigation measures which would be implemented to minimize any adverse impacts.

We anticipate that the County of Kauai Planning Department will issue a Finding of No Significant Impact (FONSI) determination for this proposed Project.

III. LOCATION LAND USE DESIGNATIONS OF PROPERTIES

A. Location. The Subject Properties are located in Kekaha, Kauai, Hawaii, and are shown on the Location Map attached hereto as Exhibit "C-1" and on the Tax Map attached as Exhibit "C-2". Map No. 35 of Land Court Application 1076 is attached as Exhibit "C-3".

B. Land Use Designations. The respective State Land Use Commission ("SLUC"), Kauai General Plan, County of Kauai Comprehensive Zoning Ordinance ("CZO"), and other relevant land use designations for the Subject Properties are described as follows:

1. SLUC. As shown on the Land Use District Boundary Map attached as Exhibit "C-4", the Subject Properties are located in the SLUC Urban District. The Subject Properties have been located in the SLUC Urban District since the inception of the SLUC Districts.

a. Kauai General Plan. As shown on the General Plan Map attached as Exhibit "C-5", the Subject Properties are located in the Kauai General Plan Natural Designation. The Subject Properties were recently designated from the Open Designation to the newly created Natural Designation in the Update to the Kauai General Plan (2018).

b. CZO. As shown on the CZO Map attached as Exhibit "C-6", the Subject Properties are located in the CZO Open District. The Subject Properties have been located in the CZO Open District since the adoption of the CZO.

c. Development Plan Area. The Subject Properties are located within the newly adopted West Kauai Community Plan Area. The Subject Properties are located in the Special Treatment Coastal Edge, as shown in Exhibit "C-7", which this Project necessitates a Use Permit and Class IV Zoning Permit.

d. Special Management Area. As shown on the Special Management Area Map attached as Exhibit "C-8", the Subject Properties are located within the Special Management Area ("SMA") of the County of Kauai. The Subject Properties have been located within the SMA since the adoption of the SMA Rules (December 17, 1979).

e. Shoreline/Shoreline Setback Area. The Subject Properties abut the shoreline and are located within the 500-foot shoreline setback threshold. The Applicant will comply with the shoreline setback requirements, which this Project necessitates a Shoreline Setback Variance as provided herein thus triggering the need for this FEA.

f. Heritage Resources. As shown on the Heritage Resources Map attached as Exhibit "C-9", the Subject Properties are located within the Preserve Heritage Resources Designations (Updated to the Kauai General Plan, 2018).

h. Permits. The Subject Properties were subdivided via a Subdivision Application in 2006, which Exhibit "D-1" provides for the Final Subdivision Map. Further, the Subject Properties undertook Shoreline Certifications, which Exhibit "D-2" provides for the Certified Shorelines.

i. Violations. There are no known violations on the Subject Properties, except for minor grubbing that occurred on the northern boundary of the Subject Properties by the adjacent landowner.

IV. PROJECT PURPOSE AND NEED

The Applicant proposes the Project to establish a commercial boating facility to alleviate customer traffic from the existing Kikiaola Small Boat Harbor. The proposed residential dwelling units will be used by the Applicant for long-term residential use and/or worker housing. The Project as a

whole will entail the parking for an existing customer base for a licensed commercial boating operation, the storage of commercial boats and equipment, a customer intake area, and one (1) 1,000 square foot elevated residence on each of the respective Subject Properties.

V. DESCRIPTION OF THE AFFECTED ENVIRONMENT

The Subject Properties are located between the urban area of Waimea and the residential section of Kekaha. Kikiaola Small Boat Harbor, which was established by the State of Hawaii in 1959, lies southwest of the Subject Properties. The use of Kikiaola Small Boat Harbor includes both commercial, recreational, non-commercial fishing, and sight-seeing boating activities. The use of the Subject Properties will be to facilitate an existing commercial boating operation and alleviate user impacts to Kikiaola Small Boat Harbor. There are also adjacent residential uses near the Project area.

VI. LAND USE IMPACTS

A. SLUC Urban District. The Subject Property is located within the SLUC Urban District. Permitted uses in the SLUC Urban District include commercial and residential uses.

B. General Plan Considerations.

1. Kauai General Plan Natural Land Use Designation. The Subject Properties are located in the Kauai General Plan Natural Land Use Designation and contemplates limited residential use and commercial uses with a use permit. The Subject Properties' zoning (Open District) allows for single-family dwelling units. As such, the Project complies with the Natural Land Use Designation.

2. Project's Compliance with Kauai General Plan Standards. The proposed use includes limited residential use, thereby the development itself will have no significant impact on the surrounding environment. The Project will include residential uses that are compatible with other uses in the area, as well as with the surrounding environment. The Project will also include limited commercial use for the intake of commercial boating activities to the adjacent Kikiaola Small Boat Harbor. As such, the Project complies with the Kauai General Plan policy for the Natural Land Use Designation in that it will help alleviate impacts to the Kikiaola Small Boat Harbor and will preserve, maintain and improve the natural characteristics of the area and will allow the area to remain predominantly free of development given the limited land coverage available and the requirement to place improvements mauka of the shoreline to the rear of the Subject Properties.

C. CZO Open District Considerations.

1. CZO Open District. The Project site is located within the CZO Open District. Uses in the CZO Open District are set forth in CZO Article 9, which provides in relevant part as follows:

"ARTICLE 9. OPEN DISTRICTS (O)

Sec. 8-9.1 Purpose.

(a) To preserve, maintain or improve the essential characteristics of land and water areas that are:

(1) of significant value to the public as scenic or recreational sources;

(2) important to the overall structure and organization of urban areas and which provide accessible and usable open areas for recreational and aesthetic purposes;

(3) necessary to insulate or buffer the public and places of residence from undesirable environmental factors caused by, or related to, particular uses such as noise, dust, and visually offensive elements.

(b) To preserve, maintain or improve the essential functions of physical and ecological systems, forms or forces which significantly affect the general health, safety and welfare.

(c) To define and regulate use and development within areas which may be potentially hazardous.

(d) To include areas indicated on the County General Plan as open or as parks.

(e) To include areas clearly indicated on the County General Plan or on Zoning maps as "Special Treatment – Open Space" if an applicant represents to government authorities that any properties or areas within a development proposal or subdivision application will remain in either permanent open space or private park areas, or if the Council in the exercise of its zoning power requires as a condition of rezoning that an area be designated for permanent open space or private park. This does not preclude the Council from exercising its zoning authority as provided in Sec. 46-4, Hawai'i Revised Statutes. Within areas so designated, no uses, structures, or development inconsistent with such designation shall be generally permitted or permitted by use permit without express provision to the contrary. The Council is hereby authorized to make such factual determinations as necessary incident to this section.

(f) To provide for other areas which because of more detailed analysis, or because of changing settlement characteristics, are determined to be of significant value to the public.

2. Project's Compliance with CZO Open District Standards. Single-family detached dwelling units and accessory structures are Permitted Uses which are allowed pursuant to CZO Section 8-2.4(s). The Land Coverage on the Subject Property will not exceed the allowed 10% land coverage. The Project itself will have no significant impact on the surrounding environment. The Project will include commercial and residential uses that are compatible with other

uses in the area, as well as with the surrounding environment. As such, the Project complies with CZO Section 8-9.1 in that it: will help to preserve, maintain and improve the natural characteristics of the area; will allow the area to remain predominantly free of development; and will be incidental to the use and open character of the surrounding lands.

D. West Kauai Community Plan Considerations.

1. Community Plan Goals and Objectives. The goals and objectives of the West Kauai Community Plan allow for single-family residences as housing. The residential component of the Project is intended to be a modest long-term rental property for employees of the boating operation or as a long-term rental in compliance with Section 1.1.010.C. Additionally, the promotion of ocean recreation activities facilitates the existing tourist-based activities in and near Kikiaola Small Boat Harbor providing jobs to local families and support to local businesses.

2. Project's Compliance with Development Plan Standards. The proposed Project will not conflict with any of the objectives contained in the West Kauai Community Plan. The design, layout and outside appearance of the Project is and will be compatible with the Future Land Use Map. Further, the limitation on land coverage merges this concept by limiting the developable area of the Subject Properties. As noted above, the Subject Properties and the location of the proposed residences and commercial boating activities are not located in the 3.2-foot anticipated sea level rise area and therefore is compliant with the new Special Treatment Coastal Edge overlay within the West Kauai Community Plan. (See, Exhibit "C-11").

E. SMA Considerations.

1. Recreational Resources. Other than beachgoing activities near the shoreline, there are no public recreational opportunities taking place on the Subject Properties. Therefore, the proposed Project will not have any negative impact on any public recreational opportunities located on properties adjacent to the Subject Properties. There are beach access easements along the makai portions of the Subject Properties. Therefore, the Project will have no direct impact on any existing public beach, river or mountain access.

2. Historic Resources. The proposed Project will not have any significant impact on historic, cultural or archaeological resources (if any) located on or near the Subject Properties. The Project is proposed on a recently approved subdivision. The Applicant performed Archeological Assessment (See, Exhibit "F-3"), which included test trenching, as provided below, in the proposed footing locations of the structures and Exploration Associations, Ltd. did not find any cultural deposits. Additionally, the Applicant's consultant noted nothing was observed on the surface to indicate the presence of subsurface cultural deposits; and while not an impossibility, given the prior ground disturbance on the Subject Property, and the minimal depth of footings for the post on pier construction, the Applicant will comply with HRS Chapter 6E should any cultural deposits be found.

3. Scenic and Open Space Resources. The proposed Project will have only minor impacts on the scenic and open space resources on and around the Subject Properties. Any visual impacts from Kaumuali'i Highway will be sufficiently mitigated with landscaping and earth

tone colors and non-reflective windows. (See, enclosed Exhibits “E-1” and “E-2”). The Project will be compatible with and blend into the earth-toned colored structures in the surrounding area.

4. Economic Uses. The Subject Properties will be developed for commercial and residential purposes. The proposed Project will create long term economic benefits associated with the construction of the improvements and long-term benefits by providing jobs in the boating industry. The proposed Project will not have any negative impacts on the economy.

5. Managing Development/Public Participation. The Project activities on the Subject Properties are complimentary to, and consistent with, present and future coastal zone development in this area of Kauai.

6. Compatibility With Surrounding Uses. The Subject Properties are surrounded by properties located within the SLUC Urban District and the CZO Open District. Uses on the surrounding lands include residential uses and commercial uses. The Subject Properties are similar in topography, character and nature with adjacent and surrounding properties, and the Project activities are consistent with such surrounding uses.

7. Project's Impacts Within SMA. The Project will have no negative impacts on the SMA. The Project is and will be compatible with existing uses in areas on or around the Subject Properties. The Project will not negatively impact scenic or open space resources within the SMA. The Project will not increase runoff or otherwise endanger the coastal ecosystem. The Project will have no detrimental impact on recreational, historic, or economic resources. The Project will not have detrimental impacts on beach or marine resources. Approval of the Project will not result in the foreclosure of future management options for development in the area. The design, siting, and landscaping of the Project as proposed will ensure that the proposed Project recognizes, preserves, maintains and contributes to the characteristics of the surrounding lands (which lands are recognized to be of particular significance or value to the general public). In particular, the Project will be compatible with, and will protect, the unique natural forms of, biologic systems contained within, and aesthetic characteristic of, the SMA.

The Project activities on the portions of the Subject Properties within the SMA fulfill the provisions of the SMA Rules in that:

a. The Project will have no effect on public access to publicly owned or used beaches and recreational areas.

b. The Project will not detrimentally affect any wildlife or endangered plant or animal species which may be located at this site.

c. Provisions for solid and liquid waste treatment, disposition and management will be developed in order to minimize adverse effects on the Special Management Area.

d. Alteration to existing landforms or vegetation and the construction of structures will cause minimum adverse effects to water resources and scenic and recreational amenities, and will minimize danger of floods, wind damage, storm surge, landslides, erosion, siltation, or failure in the event of earthquake.

e. The Project will not require dredging, filling, or altering any bay, estuary, salt marsh, river mouth, slough or lagoon.

f. The Project will not reduce the size of any beach or other area useable for public recreation.

g. The Project will not reduce or impose restrictions upon public access to tidal and submerged lands, beaches, portions or rivers or streams within the Special Management Area and the mean high tide line where there is no beach.

h. The Project will not substantially interfere with or detract from the line of sight toward the sea from the State highway nearest the coast.

i. The Project will not adversely affect water quality, existing areas of open water free of visible structures, existing and potential fisheries and fishing grounds, wildlife habitats, or potential or existing agriculture uses of land.

j. The Project will not have any substantial environmental or ecological effect, except as such adverse effect is minimized to the extent practicable and clearly outweighed by public health, safety, or compelling public interests.

k. The Project is consistent with the objectives, policies, and guidelines set forth in HRS Chapter 205A and Sections 3.0 and 4.0 of the SMA Rules.

l. The Project is consistent with permitted uses in the SLUC Urban District, the Kauai General Plan, the West Kauai Community Plan, and the CZO.

VI. SITE IMPACTS

A. Topography. The elevation of the Subject Properties range from approximately 2 to 8 feet above mean sea level. The land elevation of the proposed Project will be at the mauka end of the Subject Properties. As provided for in the Kikiola Coastal Assessment (Exhibit "F-1"), the shoreline fronting the Project site is 312 feet long backed by a beach berm. The beach fronting the Project site rises from the beach toe to a berm with an average slope of about 1 on 7 and an average width of 55 feet. The berm is made of compacted sand with a scarp along the face where waves eat away at the sand supply. Beach users standing on the top of the scarp also promote collapse of the materials. The top of the berm is at approximately +15 Mean Lower Low Water. The back of the berm contains some wind-blown sand and declines with a slope of about 1 on 3 to +9. A swale behind the berm would likely act as a natural drainage basin during heavy rains. Landward, the elevations rise again to +16.5 feet and then decline to +10.5 feet at the roadway (Figure 2-16 of Exhibit "F-1"). The proposed structures associated with the Project will be placed landward of the swale on the high topography at +15.

B. Flora and Fauna. Vegetation within the Subject Properties primarily consists of kiawe, beach heliotrope, and beach wiregrass (See, Exhibit "F-1", Figure 2). Kiawe is categorized

by the State of Hawaii as an invasive noxious weed. The nearshore areas of the Subject Properties also contain dwarf naupaka and Carter's panicgrass.

All plantings directly in the Project area are Kiawe and grasslands, which are not threatened, rare or endangered. During installation of the Project, if any native and other coastal plant species in the region are identified, they will be relocated and planted on undeveloped portions of the Subject Properties. Any other vegetation that is impacted will be temporarily removed and replanted on completion of work. Landscape maintenance will continue in all areas during the construction period. Nature-based features (NNBF) refers to the use of landscape features to produce flood risk management benefits. NNBF projects may also produce other economic, environmental, and social benefits. These landscape features may be natural (produced completely by natural processes) or nature based (produced by a combination of natural processes and human engineering). Landscape features can be used alone, in combination with each other, and in combination with conventional engineering measures such as revetments, seawalls, and other structures.

A large portion of the Subject Properties are covered in invasive kiawe with thorns that are sharp and unpleasant to walk through. Thorns are also a hazard to the proposed future use of the property as they can pierce tires and shoes of visitors. Replacement of the vegetation with native species appropriate for the environment can improve the aesthetics of the property, ease of access to the shoreline, and also provide coastal hazard mitigation.

Coastal erosion along the seaward edge of the Subject Properties can be slowed by planting appropriate vegetation species with root systems to hold sand in the berm together and can help capture wind-blown sand. On exposed ocean coasts subject to significant wave energy, vegetation alone is typically not sufficient to resist wave-induced erosion. While a strong vegetation root system can slow down the erosion rate and the vegetation itself can help dissipate overtopping waves, in most cases, vegetation is quickly overcome by the erosional forces. However, used in conjunction with stronger conventional erosion control/shore protection methods, vegetation can function to help stabilize low-lying ground behind the primary shore protection structure.

Maintaining the existing swale and earthen levee on the property can allow water to accumulate during storm events as a stormwater retention wetland with vegetation that can absorb the water and stabilize soils.

The coastal area on the Subject Properties can be thought of as four zones for Xeriscape landscape planning (See, Exhibit "F-1", Figure 5-1):

- Zone 1 - No irrigation or landscaping is allowed seaward of the certified shoreline because this would encourage encroaching vegetation, which inhibits public access and interferes with coastal processes.
- Zone 2 - Low-lying and loosely bound grasses and vines.
- Zone 3 - Low-lying grasses and vines transition to, or combine with, low-growing shrubs.
- Zone 4 - Larger woody shrubs or shade trees.

Species suggested for the Project area are listed in Table 5-1 of Exhibit “F-1”. Additional species can be found in the Hawaii Dune Restoration Manual. New plantings will generally require some irrigation for the first few months in order to get established. Vegetation monitoring would be needed to ensure stability and persistence of any new plant species and removal of invasive species as they appear.

C. Biological Resources. There are no threatened, rare or endangered animal species that are known to occur within the proposed Project area. Avian species observed on the Subject Properties are red jungle fowl, spotted dove, great frigate bird, brown booby, cattle egret, warbling white-eye, common myna, African silverbill, scaly-breasted munia, house sparrow, house finch, northern cardinal, red-crested cardinal, saffron finch, and pacific golden fowl.

Minimal noise is anticipated. Some birds and rodents may be temporarily displaced during construction, but are anticipated to be accommodated in neighboring vegetation, and should quickly re-establish themselves on and around fencing once construction is complete. No sensitive habitat areas have been identified within the project site.

D. Beach Resources. The island of Kauai, the northernmost major island in the Hawaiian chain, is fourth in size with a total area of 620 square miles. The island is roughly circular in shape, with a coastal plain along most of the coast except for the rugged Na Pali cliffs on the northwest shore. The project site is within the town of Kekaha on the southwest coast of Kaua’i (See, Exhibit “F-1”, Figure 2-1). Kekaha is located on a drained wetland and was founded as a plantation town. Groundwater in the areas surrounding Kekaha is currently pumped to keep the area dry. Today, Kekaha’s town center is dotted with a post office, small commercial uses, schools, and inactive shop fronts lacking multimodal infrastructure. There is no wastewater infrastructure in Kekaha, so residences and businesses rely on individual wastewater treatment systems. Kaumualii Highway (State Highway 50), which runs adjacent to the project area, provides the only access. East of the project area is the Park Hook Tong Chinese Cemetery, Waimea Japanese Cemetery, and the Kikiaola Small Boat Harbor with four moorings, a loading dock, boat ramp, picnic area, washdown station, and public restrooms. Drone aerial images of the Project area show kiawe trees, a paved driveway, murky nearshore conditions, and an erosion scarp along the seaward edge of the lots (See, Exhibit “F-1”, Figure 2-2 through Figure 2-5).

The shoreline fronting the Project site is 312 feet long backed by a beach berm (See, Exhibit F-1”, Figure 2-6) (See also Exhibit “C-10”). The scarp on the seaward edge of the berm is 2 to 4 feet tall (See, Exhibit “F-1”, Figure 2-7). Nearshore waters are typically turbid with strong wave-generated alongshore currents. The coastal waters are designated as Class “A” according to the State of Hawaii Water Quality Classification Standards. Turbidity in the area tends to be characteristically high due to runoff from the Waimea River and high wave action and is monitored by the Clean Water Branch (See, Exhibit “F-1”, Figure 2-8). High turbidity was confirmed by observations in September 2022. A nearshore reconnaissance found the bottom to be sparsely covered with patches of algae. The nearshore is classified by the U.S. Fish & Wildlife Service as an M2USP estuarine and marine wetland that is intertidal and irregularly flooded.

Beach widths east of the nearby Kikiaola Small Boat Harbor are much larger than those on the west side. Since the Kikiaola boat harbor was built in 1959, there has been downdrift erosion

along the shoreline fronting the subject properties. The updrift (east) side of the harbor has prograded over 100 meters seaward while the shoreline down drift (west) of the harbor has retreated over 60 meters losing about 50% of its sand volume. United States Army Corps of Engineers investigations identified the littoral impacts of the Boat Harbor to the down-drift shoreline as 3,000 to 6,000 cubic yards of sand per year (SEI and Group 70, 2008).

In 2014, in order to replenish Kikiaola Beach fronting the subject properties on the downdrift side of the Harbor, 45,000 cubic meters of sand was moved, by excavator and truck from Waimea Beach east of the harbor to the 0.3 km portion of Kikiaola Beach immediately west of the harbor (See, Exhibit "F-1", Figure 2-10, Figure 2-11). Monitoring found that the sand excavation sites on the updrift side regained their morphology, but have not regained sand volume (Molina, 2019). It took 65 years for the updrift beach to build up, via alongshore sediment transport, so it is likely that it will take many years to build up once again. Over 2014-2016, the sand placement area maintained a moderate degree of stability; however, since that time it has begun to display erosion of the bypass sand pile (Molina, 2019). The 0.5 km portion of Kikiaola Beach west of the sand placement area displayed only minor fluctuation in beach character, suggesting a lack of impact of the replenishment program on the beach's down drift portion more than two years following the bypass operation.

There seems to be no sediment exchange between Kikiaola Beach and Kekaha Beach due to the rocky headland at Oomano Point west of the project area. This is evidenced by the distinct sand characteristics on either side of the point: terrigenous sediment to the east and calcareous sediment to the west. The Kekaha area is the most arid portion of Kauai receiving on average 19.4 inches of rainfall each year. Nearly all of the streams that drain the mountains of Waimea have been channelized and redirected toward Waimea town by the Waimea and Kekaha irrigation ditches. The soils within the project area are characterized by the USDA as Jacus loamy fine sand (See, Exhibit "F-1", Figure 2-12, USDA, 2019). Loamy fine sand is 50% or more of fine sand or less than 25% very coarse, coarse, and medium sand plus less than 50% very fine sand. Along the seaward edge of the parcels is a beach backed by a berm (See, Exhibit "F-1", Figure 2-13).

On September 27, 2022, a sand sample from the shoreline berm was collected (See, Exhibit "F-1", Figure 2-14). The sample was sent to a lab for a grain size analysis using mechanical analysis and standard sieves. The gradation curve for the grain size distribution is shown in Exhibit "F-1", Figure 2-15. The medium grain-size diameter was 0.25 mm. The sand, with a uniformity coefficient of 2.37, can be described as poorly graded, medium grain, volcanoclastic beach sand with detrital content. The sediment was found to have 3.8% fines (defined as the #200 sieve, 0.074 mm), 0.1% coarse sediment (defined as the #4 sieve, 4.76 mm), and 18% of its mass less than the 0.149 mm (#100) sieve.

E. Air Quality/Noise. The Project will have little or no impact on the air quality and ambient noise levels in the area. Air quality and ambient noise levels may be affected at a very minimal level during the Development activities. All vehicles or equipment used by the Applicants for the prior construction will be properly muffled, housed and maintained to reduce any noise impacts or emission impacts. The Environmental Protection Agency (EPA) and State of Hawaii air quality standards will not be exceeded.

F. Flooding and Drainage. The proposed Project is within Flood Zone XS, as shown on the County of Kauai's flood insurance rate map (Flood Insurance Rate Map 1500020254F) attached as Exhibit "F-1". The Subject Property is located almost entirely within the Flood Zone XS and the Project will meet all of the requirements of the Flood Plain Management Ordinance of the County of Kauai, as contained in Chapter 15, Article 1, of the Kauai County Code, 1987. All drainage resulting from construction activities and from the increase in land coverage will be retained on site and subject to best management practices. No additional drainage is anticipated to significantly or negatively impact the surrounding properties.

G. Utilities. The Subject Properties currently obtains water service from the County of Kauai, Department of Water. The Subject Property obtains electric service from Kauai Island Utility Cooperative, and communication services from either Spectrum or Hawaiian Telcom, Inc. Existing electric and communications facilities are presently adequate to provide the demand for such services that will be generated by the proposed Development.

H. Wastewater Treatment and Disposal. The Subject Properties will install a private individual wastewater system (septic tanks and leach fields) as required by the Department of Health in order to dispose of wastewater. There are no sewer facilities available to the Subject Properties.

I. Solid Waste Disposal. Solid waste collection will be provided by the County of Kauai and by private means. Solid waste will be taken to the County's Transfer Stations for disposal in the County Landfill.

J. Governmental Services. The Project will have the following impacts on governmental services:

1. Fire and Police Services. Fire and police services in the vicinity are located in Waimea, approximately two (2) miles from the Subject Properties. The Project will not significantly increase the need for existing fire and police services.

2. Schools. The closest schools are Kekaha Elementary School located in Kekaha, and Waimea Canyon Middle School and Waimea High School, both of which are located in Waimea. The Project will not generate any significant additional enrollment.

K. Economics. The Project will have the following economic impacts:

1. Jobs. The Project will result in the creation of approximately five (5) temporary job positions (during construction).

2. Housing. The Project will not result in the need for additional housing, as all persons working on the Project will be Kauai residents.

3. Property Values. Since the fair market value of real property is based on the value of the land and physical improvements, the completion of the Project will increase the value of the Subject Properties. This will result in an increase real property taxes on the Subject Property, and increase revenues to the County of Kauai.

L. Population. The Project will not result in an increase in population.

M. Traffic Circulation. The major road which services the Subject Properties is Kaumuali'i Highway. The Project will distribute access to the Subject Properties to a single driveway but will not in and of itself increase traffic on these roads.

N. Heritage Resources. The Subject Properties are located within the Preserve Heritage Resources Designation (Update to the Kauai General Plan, 2018). The Heritage Resources of Kauai include natural, cultural and scenic resources. The proposed Project will not significantly affect any of these resources.

VII. NATIVE HAWAIIAN ISSUES.

A. Cultural Impacts. A Ka Pa'akai Analysis for Lots 64 and 65 of Land Court Application 1076, Map 35 located in Kikiaola, Waimea Ahupua'a, Kona District, Island of Kaua'i, TMK Nos. (4) 1-2-013:039 and 040, has been prepared by Nancy McMahon, M.A., MEd, MS of Exploration Associates Ltd. ("EAL") for the Subject Property, a copy of which is attached hereto as Exhibit "F-2".

B. Recommendations. The Ka Pa'akai Analysis contains the following findings and recommendations:

1. Document Purpose. The project requires compliance with the State of Hawai'i environmental review process Hawai'i Revised Statutes ("HRS") Chapter 343, which requires consideration of a proposed project's effect on cultural practices and resources. Through document research and cultural consultation efforts, this report provides information pertinent to the assessment of the proposed project's impacts to cultural practices (per the Office of Environmental Quality Control's Guidelines for Assessing Cultural Impacts). This document is intended to support the project's environmental review and may also serve to support the project's historic preservation review under HRS Chapter 6E-42 and HAR Chapter 13-284.

2. Community Consultation. Interviews with Native Hawaiian kupuna or elders, cultural practitioners, and individuals from the Waimea, Kekaha, and Kikiaola communities were conducted to identify persons who potentially have knowledge of traditional Hawaiian sites, resources and cultural practices in or adjacent to the Project area.

3. Results of Background Research. Background research for this Project yielded the following results:

(1) Kikiaola is an *'ili* located in the Waimea *ahupua'a*, the largest *ahupua'a* on the Island of Kaua'i. The Waimea *ahupua'a* is composed of several diverse regions, including the Waimea River Canyon, Kōke'e uplands, Alaka'i Plateau, Mānā Plain, and coastal valleys of Nu'alolo and Miloli'i. Kikiaola is generally associated with the broader Kekaha region (described as either an *ili* of Waimea or a distinct *ahupua'a*), which is an arid area with low annual rainfall and no permanent streams.

(2) The Project area is generally associated with *mo'olelo* (legends, oral histories) about the *'auwai* named Kikiaola, commonly known as Menehune Ditch. Additionally, Kikiaola is mentioned in a Hawaiian legend regarding the Howeā heiau in Waiawa, Pele and Hi'iaka, and Hawaiian chants regarding the winds of Kaua'i. There are no surviving legends or traditional accounts specific to the Subject Properties.

(3) Despite its arid climate, Kikiaola and the broader Kekaha region were permanently inhabited and intensively utilized in pre-Contact times. The area was used for dry land and irrigated agriculture, including taro and *wauke* (Mulberry). Early Land Commission Awards requests also indicate salt beds and at least one fishery. Later, the area was primarily used for cultivation of rice and sugarcane.

(4) Past archaeological studies in Kikiaola have documented several historic properties representing use of the landscape as a cultural resource, including burial sites SIHP # 50-30-05-1853 and 50-30-05-1854 by Waimea Plantation Cottages, burial site SIHP # 50-30-05-3911 at Aloha Kaua'i Villas (4491 Kikiaola Place), and burial site SIHP # 50-30-05-3941 at Kekaha House Lots (TMK: (4) 1-3-05:45). Prior archaeological studies indicate that burials are commonplace in the sandy dunes of Kaua'i.

(5) Significant habitation activity is indicated approximately 500 meters to the east of the project area, but no development is shown in the immediate vicinity of the project area. Although radiocarbon dating from several projects documents a human presence in this area, archaeological evidence is severely limited due to intensive historic and modern activities such as commercial sugarcane cultivation.

(6) No historic properties have been identified within the Project area. However, a Chinese Cemetery (SIHP # 50-30-05-613) and Japanese Cemetery (SIHP # 50-30-05-612) sit just east of the project area.

(7) Although no *heiau* have been described within or in the immediate vicinity of the project area, several *heiau* have been documented in the larger Kekaha/Waimea area, including Howea, Makahoa, Kahelu, Ho'one'enu'u, and Hau'ola *heiau*.

(8) Field investigations of the Project area resulted in no evidence or findings of significant plants or natural resources associated with Hawaiian gathering rights for subsistence, cultural or religious practices. The project area has non-native vegetation.

(9) Early visitors to the Waimea *ahupua'a* describe the use of canoes and surfboards for purposes of fishing, surfing, and transportation. These activities are not restricted by development of the Project area because a lateral easement for public pedestrian access purposes is recorded in the subdivision map and alternate public access to the nearshore area is reasonably accessible.

(10) Over one hundred fifty (150) *kuleana* awards were granted in the Waimea *ahupua'a* and fifteen (15) were awarded in Kikiaola. Most of the land in this area was a part of Crown and Government Land. The current Project area is a portion of 565.56 acres granted to Reverend George B. Rowell in the mid-nineteenth century. The three Land Commission Award ("LCA") Parcels located nearest to the project area are: LCA 387:2 to American Sandwich Island Mission; LCA 362:1, 3 to Naumu; and LCA 7713:42 to V. Kamamalu. None are located in the immediate vicinity of the Project area.

4. Results of Community Consultation. EAL spoke with thirteen (13) community members with personal ties to Kikiaola for the purposes of this Ka Pa'akai Analysis. Community consultation for this Ka Pa'akai Analysis indicates:

(1) Many participants were aware of the project and very supportive, and none had concerns that the project would impact traditional and customary practices.

(2) Despite various mo'olelo and wahi pana relating to the Kekaha region, no ongoing Native Hawaiian cultural resources or practices were identified in the project area.

(3) The Project area and vicinity may contain surface and subsurface cultural and historic properties, including human burials.

(4) Since the construction of the Kīkīāola Small Boat Harbor no one fishes offshore from the Project. Local fishermen support the proposed Project due to its potential to decrease visitor traffic and increase local parking access at Kīkīāola Small Boat Harbor.

5. Mitigations. Although initial inspections and subsurface tests yielded negative findings, prior archaeological findings in the surrounding area suggest that the proposed action for Kīkīāola may negatively impact Hawaiian beliefs, resources and practices, particularly with regard to the disturbance of burials or *iwi kupuna*. A good faith effort to develop appropriate measures to address concerns and attention to the following recommendations may help mitigate potentially adverse effects of the proposed project on cultural, historic and natural resources in and near the Project area. Based on the findings of this Ka Pa'akai Analysis, it is recommended that:

(1) Project proponents address concerns presented by Ka Pa'akai Analysis participants by avoiding harm as result of ground disturbance to cultural and natural resources (e.g., burials). Minimizing digging in order to prevent disturbance of burials is recommended.

(2) The proposed project proceeds under an archaeological monitoring program that utilizes a combination of on-site and on-call monitoring. As suggested in the companion Archaeological Inventory Survey (AIS) (See, Exhibit "F-3"), due to the sensitive nature of the project area and the potential for project related ground disturbance during construction, a monitoring program would facilitate the identification and documentation of any historic properties that might be discovered during project construction. More specifically, it is suggested that an archaeological monitor be present during all subsurface activities involving deeper excavation work (i.e., septic system). If on-site monitoring continues to yield no subsurface finds, monitoring might be amended from on-site to on-call, with agreement from an SHPD.

(4) The owner be responsible for maintenance and upkeep of vegetation to prevent overgrowth of invasive species.

(5) Generally, it is recommended that Project proponents pursue proactive dialog with concerned Kekaha/Waimea community members and agencies regarding planning, implementation and maintenance of the proposed construction project in order to address issues raised by study participants in this Ka Pa'akai Analysis.

IX. ALTERNATIVE ANALYSIS

Alternative # 1. Complete the Project as proposed with only the commercial boating facility to alleviate congestion at the Kīkīāola Small Boat Harbor. This alternative will support alleviating

the existing traffic at the harbor; however, removal of the residential dwellings will eliminate opportunities for long-term housing and/or employee housing.

Alternative #2. Complete the Project as proposes with only the residential dwelling units. The residential dwelling units will be limited to 1,000 square feet given the Shoreline Setback Variance requirements and therefore be modest in nature. These residential dwelling units will support the housing needs of the westside community; however, removing the commercial boat facility will eliminate opportunities to alleviate customer traffic at the Kikiaola Small Boat Harbor.

Alternative # 3 The No-Action Alternative is Alternative 3. Leaving the Subject Properties vacant will eliminate the opportunities to relieve traffic from Kikiaola Small Boat Harbor and to provide needed housing in the Kekaha area. This no action alternative will not support mitigating impacts to Kikiaola Small Boat Harbor and the current need for employee and/or long-term housing.

X. GENERAL DESCRIPTION OF THE ACTION INCLUDING ENVIRONMENTAL AND SOCIOECONOMIC CHARACTERISTICS

The Project should have minimal to no significant environmental and social impacts. The Project will provide commercial boating activity-related job opportunities and employee housing. The siting of the Project was selected to minimize impacts to the nearshore areas and is retreated to mauka side of the Subject Properties as required by the Shoreline Setback Variance requirements. The siting of the Project as far away from the shoreline area will preserve beach access and coastal activities on the nearshore areas of the Subject Properties. This preservation of beach access will continue to provide beach goers and cultural practitioners access along the beach access corridor.

XI. MITIGATION MEASURES

The Applicant anticipates no specific major negative impacts from this Project. The contractor associated with the Project will be required to minimize negative impacts by implementing best management practices. The contractor will be required to install erosion control measures such as silt fencing and storm drain protective devices where appropriate during the construction period. The contractor shall prevent storm water from the open construction area from directly entering the ocean. Lastly, open excavations shall be fenced off or covered when the contractor has left the site.

XII. RESPONSIVE COMMENTS TO DEA.

SHPD – EAL consulted with SHPD regarding the AIS. SHPD responded to require a SMA Permit No. prior to the submittal to the online HICRIS portal. EAL will upload archeological reference materials to HICRIS once the Planning Department issues a SMA Permit No. reference.

DOH – Sara Broward with Lox Hawaii has consulted with DOH regarding the individual wastewater system. DOH has responded with comments to the design of the individual wastewater systems. (See, Exhibit “G-1”). The Applicant will comply with the DOH requirements set forth in the comment letters.

Planning Department – The Planning Department commented that the proposed improvements should retreat further from the certified shoreline. The Applicant is willing to work with the

Planning Department to address their concerns via the Shoreline Setback Variance application review process. The Subject Properties are encumbered by access easements for adjacent properties and limitations on use of the mauka portions of the Subject Properties inhibit a complete retreat to the mauka boundary line. Further, the Applicant requires additional space to turnaround boat trailers and vehicles. The Applicant will continue to dialogue with the Planning Department and modify the site plan.

Community – The Applicant received five (5) letters of support from neighbors, commercial operators, and local fishermen. (See, Exhibits “G-2 thru “G-6”). In general, the letters support minimizing the impacts to Kikiaola Small Boat Harbor and removing traffic impacts to the harbor area by staging the Applicant’s commercial boat patrons to adjacent private property. The Applicant responded to the comments and thanked them for their support.

XIII. ANTICIPATED DETERMINATION

The applicant anticipates a Finding of No Significant Impact (FONSI).

XIII. FINDINGS AND REASONS SUPPORTING ANTICIPATED DETERMINATION

The entirety of the Subject Properties are within the Shoreline Setback Area. The County of Kauaʻi Shoreline Study Erosion Map for this area (See, Exhibit “C-10”) shows that the shoreline fronting the Project area as an eroding shoreline. However, given the depth of the Project area as approximately 312 feet from the certified shoreline, there are no anticipated impacts to the shoreline. Further, the design and setback of the proposed structures will be developed to be resilient to any anticipated coastal hazards.

There are no rare, endangered or threatened species that will be impacted by this Project. There are no historical or cultural features that will be impacted by this Project as evidenced by the archeological and cultural reviews by the Applicant’s consultants.

The Project alleviates impacts to the adjacent Kikiaola Small Boat Harbor and provides opportunities for housing for employees of the commercial boating operation.

This Project does not impact public coastal access, which is guaranteed by a coastal accessway fronting this Project area and designated easements, and which is occasionally used by shoreline anglers. That coastal accessway is not within the work area and will not be impaired either during or after construction.

Construction of the Project will ensure that any threat of dust or runoff is minimized. As provided above, best management practices will be employed by the contractor.

This Project meets the requirements of the state Coastal Zone Management Act and the county Special Management Area Rules and Regulations and Shoreline Setback Variance requirements.

IVX. LIST OF PERMITS REQUIRED FOR THIS PROJECT

Class I Zoning Permit, Planning Department

Building Permit, Public Works, Building Division

Shoreline Setback Variance, Planning Commission

Special Management Area Use Permit, Planning Commission

Use Permit

Class IV Zoning Permit

Grading Permit, Department of Public Works, Engineering Division

VX. ENVIRONMENTAL ASSESSMENT PREPARATION INFORMATION

The following agencies have been provided a copy of the DEA. All of the comments that are received will be addressed in the appropriate sections of the Final Environmental Assessment.

STATE AGENCIES

Office of Environmental Quality Control, Office of Planning

COUNTY OF KAUAI AGENCIES

Department of Planning

INDIVIDUALS/ORGANIZATIONS

Kikiaola Fishing Club

Individuals Consulted during the Ka Pa'akai Analysis

EXHIBIT "A-1"

AUTHORIZATION

I. **APPLICANT.**

Name: NATHANIEL FISHER
Address: 159 Wailua Road, Unit A
Kapaa, Hawaii 96746

II. **AUTHORIZED AGENT.**

Name: Ian K. Jung, Esq.
Address: Belles Graham LLP
3135 Akahi Street, Suite A
Lihue, Kauai, Hawaii 96766
Telephone: (808) 245-2163
Facsimile: (808) 245-3277
Email: iki@kauai-law.com

III. **PROPERTY.**

Lots 64 and 65
Land Court Application No. 1076 (Map 7)
Kilauea, Kauai, Hawaii
Kauai Tax Map Key Nos. (4) 1-2-013:039 and 040

IV. **AUTHORIZATION.**

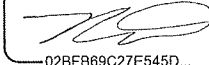
The Applicant hereby authorizes the Authorized Agent to act on the Applicant's behalf and to file and process on the Applicant's behalf any and all applications necessary to obtain governmental permits relating to the Subject Property, including, but not limited to, the following:

1. Permits and approvals, including but not limited to, building permits, grading permits, use permits, variance permits, zoning permits, and Special Management Area permits, issued by the County Council, or any department, agency, board or commission, of the County of Kauai.
2. Permits and approvals issued by any legislative body or any department, agency, board, or commission of the State of Hawaii, including but not limited to, the Department of Health.

3. Permits and approvals issued by the Board of Land and Natural Resources of the State of Hawaii and/or the Department of Land and Natural Resources of the State of Hawaii.
4. Permits and approvals issued by any legislative body, department, agency, board or commission of the United States of America, including but not limited to, the Army Corps of Engineers.

DATED: _____.

APPLICANT:

DocuSigned by:

02BF869C27E545D...

NATHANIEL FISHER

EXHIBIT "A-2"

AUTHORIZATION

I. **OWNER.**

Name: HOKUAINA DEVELOPMENT, LLC, a Hawaii limited liability company
Attention: Ken Hayashida

Address: 50 Beretania Street, C-119C
Honolulu, Hawaii 96813

II. **AUTHORIZED AGENT.**

Name: Ian K. Jung, Esq.

Address: Belles Graham LLP
3135 Akahi Street, Suite A
Lihue, Kauai, Hawaii 96766

Telephone: (808) 245-2163
Facsimile: (808) 245-3277
Email: ikj@kauai-law.com

III. **PROPERTY.**

Lots 64 and 65
Land Court Application No. 1076 (Map 7)
Kilauea, Kauai, Hawaii
Kauai Tax Map Key Nos. (4) 1-2-013:039 and 040

IV. **AUTHORIZATION.**

The Applicant hereby authorizes the Authorized Agent to act on the Applicant's behalf and to file and process on the Applicant's behalf any and all applications necessary to obtain governmental permits relating to the Subject Property, including, but not limited to, the following:

1. Permits and approvals, including but not limited to, building permits, grading permits, use permits, variance permits, zoning permits, and Special Management Area permits, issued by the County Council, or any department, agency, board or commission, of the County of Kauai.
2. Permits and approvals issued by any legislative body or any department, agency, board, or commission of the State of Hawaii, including but not limited to, the Department of Health.

3. Permits and approvals issued by the Board of Land and Natural Resources of the State of Hawaii and/or the Department of Land and Natural Resources of the State of Hawaii.
4. Permits and approvals issued by any legislative body, department, agency, board or commission of the United States of America, including but not limited to, the Army Corps of Engineers.

DATED: 10/21/2023 _____.

OWNER:

HOKUAINA DEVELOPMENT, LLC,
a Hawaii limited liability company

DocuSigned by:
Ken Hayashida
By _____
41A908593325448...
KEN HAYASHIDA
Its Manager

EXHIBIT "B-1"

PRELIMINARY REPORT
(No Liability Hereunder)

This report (and any revisions thereto) is issued solely for the convenience of the titleholder, the titleholder's agent, counsel, purchaser or mortgagee, or the person ordering it for the purpose of facilitating the issuance of a policy of title insurance by Title Guaranty of Hawaii, LLC and no liability will arise under this report.

SCHEDULE A

Title Guaranty of Hawaii, LLC (the "Company") hereby reports that, subject to those matters set forth in Schedule "B" hereof, the title to the estate or interest to the land described in Schedule "C" hereof is vested in:

HOKUAINA DEVELOPMENT, LLC,
a Hawaii limited liability company,
as Fee Owner

This report is dated as of August 27, 2021 at 8:00 a.m.

Inquiries concerning this report should be directed to:
Title Officer - Dharalyn K. Lim; Office: (808) 521-0249
Email: dlim@tghawaii.com
Please reference Title Order No. 202142902.

EXHIBIT "B-1"

**SCHEDULE B
EXCEPTIONS**

1. Real Property Taxes, if any, that may be due and owing.

Tax Key: (4) 1-2-013-039 Area Assessed: 1.112 acres

2. Location of the seaward boundary in accordance with the laws of the State of Hawaii and shoreline setback line in accordance with County regulation and/or ordinance.

3. Claims arising out of customary and traditional rights and practices, including without limitation those exercised for subsistence, cultural, religious, access or gathering purposes, as provided for in the Hawaii Constitution or the Hawaii Revised Statutes.

4. The terms and provisions contained in the following:

INSTRUMENT : LIMITED WARRANTY DEED WITH COVENANTS, RESERVATIONS,
RESTRICTIONS ON SALE, AND DISCLAIMERS

DATED : November 2, 2000

FILED : Land Court Document No. 2662386

5. Encroachments or any other facts which a correct boundary and improvement survey or archaeological study would disclose, including, without limitation, trails, rights of way, historic property and burial sites.

6. REAL PROPERTY MORTGAGE; SECURITY AGREEMENT; ASSIGNMENT OF LEASES, AND RENTS; FIXTURE FILING; AND FINANCING STATEMENT

LOAN/ACCOUNT NO. 8100280695

MORTGAGOR : HOKUAINA DEVELOPMENT, LLC, a Hawaii limited
liability company

MORTGAGEE : CENTRAL PACIFIC BANK, a Hawaii corporation

DATED : March 7, 2006

SCHEDULE B CONTINUED

FILED : Land Court Document No. [3402420](#)
AMOUNT : \$2,470,000.00

7. DESIGNATION OF EASEMENT(S) "V"

PURPOSE : public pedestrian access
REFERENCED : on Map 35, as set forth by Land Court Order No. [170601](#), filed May 16, 2007

8. Restriction of vehicular access rights shown on Map 35, as set forth by Land Court Order No. [170601](#), filed May 16, 2007.

9. Following reservation and rights as set forth in Land Court Order No. [170601](#), filed May 16, 2007:

- (A) The State of Hawaii reserves and owns all mineral and metallic mines of every kind or description on the property, including geothermal rights, and the right to remove the same.
- (B) That the property is subject to the rights of native tenants.
- (C) That the State of Hawaii reserves all right, title, interest, or claim to waters having their source upon or flowing over or under the property.

10. DESIGNATION OF EASEMENT(S) Q

PURPOSE : access and utility
REFERENCED : on Map 35, as set forth by Land Court Order No. [170601](#), filed May 16, 2007

11. DESIGNATION OF EASEMENT(S) S

PURPOSE : acces, utility and view corridor
REFERENCED : on Map 35, as set forth by Land Court Order No. [170601](#), filed May 16, 2007

SCHEDULE B CONTINUED

12. Designation of View Corridor Setback Lines (15 feet wide), shown on Map 35, as set forth by Land Court Order No. [170601](#), filed May 16, 2007

13. The terms and provisions contained in the following:

INSTRUMENT : DECLARATION OF PROTECTIVE COVENANTS, CONDITIONS AND RESTRICTIONS FOR HOKUAINA BEACH ESTATES

DATED : August 28, 2007

FILED : Land Court Document No. [3648349](#)

The foregoing includes, but is not limited to, matters relating to no direct vehicular access permitted onto Kaumualii Highway from Lots 63 and 66.

Said Declaration was amended by instrument dated April 28, 2010, filed as Land Court Document No. [3961638](#), and dated May 20, 2015, filed as Land Court Document No. T-[9298259](#).

14. GRANT

TO : KAUAI ISLAND UTILITY COOPERATIVE, a cooperative association formed pursuant to the provision of Chapter 421C of the Hawaii Revised Statutes

DATED : August 19, 2009

FILED : Land Court Document No. [3904605](#)

GRANTING : non-exclusive perpetual right and easement over Easement "Z" for electrical, telephone and cable purposes

15. COVEYANCE OF WATER FACILITY dated November 5, 2008, recorded as Document No. [2009-138956](#).

END OF SCHEDULE B

SCHEDULE C

All of that certain parcel of land situate at Waimea, Island and County of Kauai,, State of Hawaii, described as follows:

LOT 64, area 1.112 acres, more or less, as shown on Map [35](#), filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii with Land Court Application No. 1076 of the Trustees of Eric A. and Augustus F. Knudsen.

Together with a right of way across Lot 14-B as reserved in Land Court Document No. [49615](#).

Together with Easement "T" for access and utility purposes, shown on Map 35, as set forth in Land Court Order No. [170601](#), filed May 16, 2007.

Being land(s) described in Transfer Certificate of Title No. 893,779 issued to HOKUAINA DEVELOPMENT, LLC, a Hawaii limited liability company.

BEING THE PREMISES ACQUIRED BY LIMITED WARRANTY DEED

GRANTOR : KVH PARTNERS, a Hawaii limited partnership

GRANTEE : HOKUAINA DEVELOPMENT, LLC, a Hawaii limited liability company

DATED : March 7, 2006

FILED : Land Court Document No. [3402419](#)

END OF SCHEDULE C

GENERAL NOTES

1. There is hereby omitted from any covenants, conditions and reservations contained herein any covenant or restriction based on race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law. Lawful restrictions under state or federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

2. Lot 14-B of Land Court Application No. 1076 has been consolidated with Lots 1-A and 3 of Land Court Application No. 930, Lot 6 of Land Court Application No. 937, Lots 13, 14-A and 14-C of Land Court Application No. 1076, and resubdivided into Lots 1, 2 and 3 of Land Court Consolidation No. 175, by Land Court Order No. [98807](#), filed July 30, 1990.

GUIDELINES FOR THE ISSUANCE OF INSURANCE

- A. Taxes shown in Schedule B are as of the date such information is available from the taxing authority. Evidence of payment of all taxes and assessments subsequent to such date must be provided prior to recordation.
- B. Evidence of authority regarding the execution of all documents pertaining to the transaction is required prior to recordation. This includes corporate resolutions, copies of partnership agreements, powers of attorney and trust instruments.
- C. If an entity (corporation, partnership, limited liability company, etc.) is not registered in Hawaii, evidence of its formation and existence under the laws where such entity is formed must be presented prior to recordation.
- D. If the transaction involves a construction loan, the following is required:
 - (1) a letter confirming that there is no construction prior to recordation; or
 - (2) if there is such construction, appropriate indemnity agreements, financial statements and other relevant information from the owner, developer, general contractor and major sub-contractors must be submitted to the Company for approval at least one week prior to the anticipated date of recordation.

Forms are available upon request from the Company.

- E. Chapter 669, Hawaii Revised Statutes, sets forth acceptable tolerances for discrepancies in structures or improvements relative to private property boundaries for various classes of real property. If your survey map shows a position discrepancy that falls within the tolerances of Chapter 669, call your title officer as affirmative coverage may be available to insured lenders.
- F. The right is reserved to make additional exceptions and/or requirements upon examination of all documents submitted in connection with this transaction.
- G. If a policy of title insurance is issued, it will exclude from coverage all matters set forth in Schedule B of this report and in the printed Exclusions from Coverage contained in an ALTA policy or in the Hawaii Standard Owner's Policy, as applicable. Different forms may have different exclusions and should be reviewed. Copies of the policy forms are available upon request from the Company or on our website at www.tghawaii.com.
- H. Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

DATE PRINTED: 9/02/2021

STATEMENT OF ASSESSED VALUES AND REAL PROPERTY TAXES DUE

TAX MAP KEY

DIVISION ZONE SECTION PLAT PARCEL HPR NO.
(4) 1 2 013 039 0000

CLASS: RESIDENTIAL

AREA ASSESSED: 1.112 AC

ASSESSED VALUES FOR CURRENT YEAR TAXES: 2021

The records of this division show the assessed values and taxes on the property designated by Tax Key shown above are as follows:

TOTAL ASSESSED VALUE \$ 739,200

TOTAL EXEMPTION \$ 0

TOTAL NET VALUE \$ 739,200

Installment (1 - due 8/20; 2 - due 2/20) Tax Info As Of - 7/01/2021

Tax Year	Installment	Tax Amount	Penalty Amount	Interest Amount	Other Amount	Total Amount	
2021	2	2,236.08				2,236.08	PENDING
2021	1	2,236.08				2,236.08	PENDING
2020	2	2,236.08				2,236.08	PAID
2020	1	2,236.08				2,236.08	PAID
2019	2	2,236.08				2,236.08	PAID
2019	1	2,236.08				2,236.08	PAID

Total Amount Due: 4,472.16

Penalty and Interest Computed to: 7/01/2021

The real property tax information provided is based on information furnished by the respective counties, is deemed reliable but not guaranteed, and no warranties are given express or implied. Billing and tax collection details may have changed. Please refer to the appropriate county real property tax offices for any further information or updates for the subject property.

EXHIBIT "B-2"

40

PRELIMINARY REPORT
(No Liability Hereunder)

This report (and any revisions thereto) is issued solely for the convenience of the titleholder, the titleholder's agent, counsel, purchaser or mortgagee, or the person ordering it for the purpose of facilitating the issuance of a policy of title insurance by Title Guaranty of Hawaii, LLC and no liability will arise under this report.

SCHEDULE A

Title Guaranty of Hawaii, LLC (the "Company") hereby reports that, subject to those matters set forth in Schedule "B" hereof, the title to the estate or interest to the land described in Schedule "C" hereof is vested in:

HOKUAINA DEVELOPMENT, LLC,
a Hawaii limited liability company,
as Fee Owner

This report is dated as of August 31, 2021 at 8:00 a.m.

Inquiries concerning this report should be directed to:
Title Officer - Dharalyn K. Lim; Office: (808) 521-0249
Email: dlim@tghawaii.com
Please reference Title Order No. 202142903.

EXHIBIT "B-2"

**SCHEDULE B
EXCEPTIONS**

1. Real Property Taxes, if any, that may be due and owing.

Tax Key: (4) 1-2-013-040 Area Assessed: 1.188 acres

2. Location of the seaward boundary in accordance with the laws of the State of Hawaii and shoreline setback line in accordance with County regulation and/or ordinance.

3. Claims arising out of customary and traditional rights and practices, including without limitation those exercised for subsistence, cultural, religious, access or gathering purposes, as provided for in the Hawaii Constitution or the Hawaii Revised Statutes.

4. The terms and provisions contained in the following:

INSTRUMENT : LIMITED WARRANTY DEED WITH COVENANTS, RESERVATIONS,
RESTRICTIONS ON SALE, AND DISCLAIMERS

DATED : November 2, 2000

FILED : Land Court Document No. 2662386

5. DESIGNATION OF EASEMENT(S) R

PURPOSE : access and utility

REFERENCED : on Map 35, as set forth by Land Court Order No.
170601, filed May 16, 2007

6. DESIGNATION OF EASEMENT(S) T

PURPOSE : access, utility and view corridor

REFERENCED : on Map 35, as set forth by Land Court Order No.
170601, filed May 16, 2007

SCHEDULE B CONTINUED

7. DESIGNATION OF EASEMENT(S) V

PURPOSE : public pedestrian access purposes
REFERENCED : on Map 35, as set forth by Land Court Order No.
170601, filed May 16, 2007

8. Restriction of vehicular access rights shown on Map 35, as set forth by Land Court Order No. 170601, filed May 16, 2007.

9. Designation of View Corridor Setback Lines (15 feet wide), shown on Map 35, as set forth by Land Court Order No. 170601, filed May 16, 2007.

10. Following reservation and rights as set forth in Land Court Order No. 170601, filed May 16, 2007:

- (A) The State of Hawaii reserves and owns all mineral and metallic mines of every kind or description on the property, including geothermal rights, and the right to remove the same.
- (B) That the property is subject to the rights of native tenants.
- (C) That the State of Hawaii reserves all right, title, interest, or claim to waters having their source upon or flowing over or under the property.

11. The terms and provisions contained in the following:

INSTRUMENT : DECLARATION OF PROTECTIVE COVENANTS, CONDITIONS AND RESTRICTIONS FOR HOKUAINA BEACH ESTATES

DATED : August 28, 2007
FILED : Land Court Document No. 3648349

Said Declaration was amended by instruments dated April 28, 2010, filed as Land Court Document No. 3961638, and dated effective as of May 20, 2015, filed as Land Court Document No. T-9298259.

SCHEDULE B CONTINUED

The foregoing includes, but is not limited to, matters relating to no direct vehicular access permitted onto Kaumualii Highway from Lots 63 and 66.

AGREEMENT REGARDING CANCELLATION OF EASEMENT RIGHTS dated effective as of May 20, 2015, filed as Land Court Document No. T-9298258, by and between HOKUAINA DEVELOPMENT, LLC, a Hawaii limited liability company ("Hokuaina") and KVH WAIMEA BEACHFRONT, LLC, a Hawaii limited liability company ("KVH").

12. DESIGNATION OF EASEMENT(S) Y (10 feet wide)

PURPOSE : electrical, telephone and cable
REFERENCED : on Map 36, as set forth by Land Court Order No. 173837, filed February 22, 2008

13. GRANT

TO : KAUAI ISLAND UTILITY COOPERATIVE, a cooperative association formed pursuant to the provision of Chapter 421C of the Hawaii Revised Statutes

DATED : August 19, 2009
FILED : Land Court Document No. 3904605
GRANTING : non-exclusive right and easement over Easement "Y" for electrical, telephone and cable purposes

14. CONVEYANCE OF WATER FACILITY dated November 5, 2008, recorded as Document No. 2009-138956.

END OF SCHEDULE B

SCHEDULE C

All of that certain parcel of land situate at Waimea, Island and County of Kauai, State of Hawaii, described as follows:

LOT 65, area 1.188 acres, more or less, as shown on Map 35, filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii with Land Court Application No. 1076 of the Trustees of Eric A. and Augustus F. Knudsen.

Together with a right of way across Lot 14-B as reserved in Land Court Document No. 49615.

Together with Easement "S" for access and utility purposes, shown on Map 35, as set forth in Land Court Order No. 170601, filed May 16, 2007.

Being land(s) described in Transfer Certificate of Title No. 893,779 issued to HOKUAINA DEVELOPMENT, LLC, a Hawaii limited liability company.

BEING THE PREMISES ACQUIRED BY LIMITED WARRANTY DEED

GRANTOR : KVV PARTNERS, a Hawaii limited partnership
GRANTEE : HOKUAINA DEVELOPMENT, LLC, a Hawaii limited liability company
DATED : March 7, 2006
FILED : Land Court Document No. 3402419

END OF SCHEDULE C

GENERAL NOTES

1. There is hereby omitted from any covenants, conditions and reservations contained herein any covenant or restriction based on race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law. Lawful restrictions under state or federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

2. Lot 14-B of Land Court Application No. 1076 has been consolidated with Lots 1-A and 3 of Land Court Application No. 930, Lot 6 of Land Court Application No. 937, Lots 13, 14-A and 14-C of Land Court Application No. 1076, and resubdivided into Lots 1, 2 and 3 of Land Court Consolidation No. 175, by Land Court Order No. 98807, filed July 30, 1990.

GUIDELINES FOR THE ISSUANCE OF INSURANCE

- A. Taxes shown in Schedule B are as of the date such information is available from the taxing authority. Evidence of payment of all taxes and assessments subsequent to such date must be provided prior to recordation.
 - B. Evidence of authority regarding the execution of all documents pertaining to the transaction is required prior to recordation. This includes corporate resolutions, copies of partnership agreements, powers of attorney and trust instruments.
 - C. If an entity (corporation, partnership, limited liability company, etc.) is not registered in Hawaii, evidence of its formation and existence under the laws where such entity is formed must be presented prior to recordation.
 - D. If the transaction involves a construction loan, the following is required:
 - (1) a letter confirming that there is no construction prior to recordation; or
 - (2) if there is such construction, appropriate indemnity agreements, financial statements and other relevant information from the owner, developer, general contractor and major sub-contractors must be submitted to the Company for approval at least one week prior to the anticipated date of recordation.
- Forms are available upon request from the Company.
- E. Chapter 669, Hawaii Revised Statutes, sets forth acceptable tolerances for discrepancies in structures or improvements relative to private property boundaries for various classes of real property. If your survey map shows a position discrepancy that falls within the tolerances of Chapter 669, call your title officer as affirmative coverage may be available to insured lenders.
 - F. The right is reserved to make additional exceptions and/or requirements upon examination of all documents submitted in connection with this transaction.
 - G. If a policy of title insurance is issued, it will exclude from coverage all matters set forth in Schedule B of this report and in the printed Exclusions from Coverage contained in an ALTA policy or in the Hawaii Standard Owner's Policy, as applicable. Different forms may have different exclusions and should be reviewed. Copies of the policy forms are available upon request from the Company or on our website at www.tghawaii.com.
 - H. Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

DATE PRINTED: 9/03/2021

STATEMENT OF ASSESSED VALUES AND REAL PROPERTY TAXES DUE

TAX MAP KEY

DIVISION ZONE SECTION PLAT PARCEL HPR NO.
(4) 1 2 013 040 0000

CLASS: RESIDENTIAL

AREA ASSESSED: 1.188 AC

ASSESSED VALUES FOR CURRENT YEAR TAXES: 2021

The records of this division show the assessed values and taxes on the property designated by Tax Key shown above are as follows:

TOTAL ASSESSED VALUE \$ 765,800
TOTAL EXEMPTION \$ 0
TOTAL NET VALUE \$ 765,800

Installment (1 - due 8/20; 2 - due 2/20) Tax Info As Of - 7/01/2021

Tax Year	Installment	Tax Amount	Penalty Amount	Interest Amount	Other Amount	Total Amount	
2021	2	2,316.54				2,316.54	PENDING
2021	1	2,316.55				2,316.55	PENDING
2020	2	2,316.54				2,316.54	PAID
2020	1	2,316.55				2,316.55	PAID
2019	2	2,316.54				2,316.54	PAID
2019	1	2,316.55				2,316.55	PAID

Total Amount Due: 4,633.09

Penalty and Interest Computed to: 7/01/2021

The real property tax information provided is based on information furnished by the respective counties, is deemed reliable but not guaranteed, and no warranties are given express or implied. Billing and tax collection details may have changed. Please refer to the appropriate county real property tax offices for any further information or updates for the subject property.

EXHIBIT "C-1"



Overview



Legend

-  Parcels
-  CPR Units
-  Roads

Parcel ID	120130400000	Situs/Physical Address	KAUMUALII HWY	Total Market Value	\$837,600	Last 2 Sales		
Acreage	1.188	Mailing Address	HOKUAINA DEVELOPMENT LLC	Total Assessed Value	\$837,600	Date	Price	Reason
Class	RESIDENTIAL		50 S BERETANIA ST UNIT C-119C	Total Exemptions	\$0	n/a	0	n/a
			HONOLULU HI 96813	Total Net Taxable Value	\$837,600	n/a	0	n/a
Brief Tax Description		LOT 65 MAP 35 LD CT APP 1076 1.188 AC						
		(Note: Not to be used on legal documents)						

The Geographic Information Systems (GIS) maps and data are made available solely for informational purposes. The GIS data is not the official representation of any of the information included, and do not replace a site survey or legal document descriptions. The County of Kauai (County) makes or extends no claims, representations or warranties of any kind, either express or implied, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose, as to the quality, content, accuracy, currency, or completeness of the information, text, maps, graphics, links and other items contained in any of the GIS data. In no event shall the County become liable for any errors or omissions in the GIS, and will not under any circumstances be liable for any direct, indirect, special, incidental, consequential, or other loss, injury or damage caused by its use or otherwise arising in connection with its use, even if specifically advised of the possibility of such loss, injury or damage. The data and or functionality on this site may change periodically and without notice. In using the GIS data, users agree to indemnify, defend, and hold harmless the County for any and all liability of any nature arising out of or resulting from the lack of accuracy or correctness of the data, or the use of the data.

Date created: 10/20/2023
Last Data Uploaded: 10/20/2023 3:38:16 AM

Developed by  Schneider
GEOSPATIAL



Overview



Legend

-  Parcels
-  CPR Units
-  Roads

Parcel ID	120130390000	Situs/Physical Address	KAUMUALII HWY	Total Market Value	\$822,400	Last 2 Sales		
Acreage	1.112	Mailing Address	HOKUAINA DEVELOPMENT LLC	Total Assessed Value	\$822,400	Date	Price	Reason
Class	RESIDENTIAL		50 S BERETANIA ST UNIT C-119C	Total Exemptions	\$0	n/a	0	n/a
			HONOLULU HI 96813	Total Net Taxable Value	\$822,400	n/a	0	n/a
Brief Tax Description		LOT 64 MAP 35 LD CT APP 1076 1.112 AC						
		(Note: Not to be used on legal documents)						

The Geographic Information Systems (GIS) maps and data are made available solely for informational purposes. The GIS data is not the official representation of any of the information included, and do not replace a site survey or legal document descriptions. The County of Kauai (County) makes or extends no claims, representations or warranties of any kind, either express or implied, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose, as to the quality, content, accuracy, currency, or completeness of the information, text, maps, graphics, links and other items contained in any of the GIS data. In no event shall the County become liable for any errors or omissions in the GIS, and will not under any circumstances be liable for any direct, indirect, special, incidental, consequential, or other loss, injury or damage caused by its use or otherwise arising in connection with its use, even if specifically advised of the possibility of such loss, injury or damage. The data and or functionality on this site may change periodically and without notice. In using the GIS data, users agree to indemnify, defend, and hold harmless the County for any and all liability of any nature arising out of or resulting from the lack of accuracy or correctness of the data, or the use of the data.

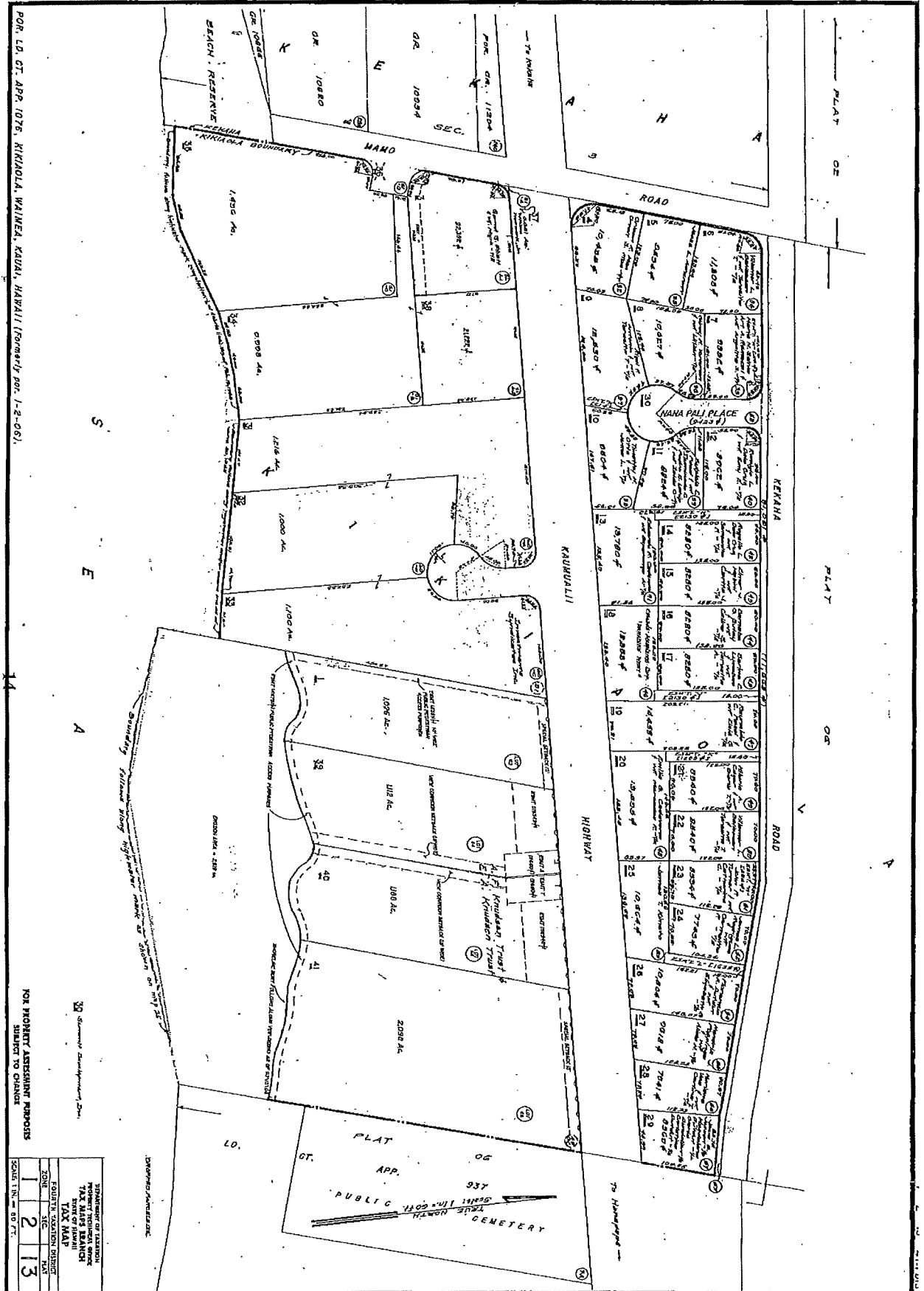
Date created: 10/20/2023

Last Data Uploaded: 10/20/2023 3:38:16 AM

Developed by  **Schneider**
GEOSPATIAL

EXHIBIT "C-2"

DATE HQ, 5.27 DATE: September 23 1978 BY: Butt/Vickner SOURCE: LD. GR. April 1979. Map 20



138.40

HIGHWAY

10' 11" 1'

INVESTMENTS
SYNDICATES INC.

(2) (31)

SPECIAL SETBACK IS

LOT 63

ESMT 0153497

ESMT 5 ESMT 7
(26604) (26604)

ESMT R63407

LOT 64

LOT 65

A. F. Knudsen Trust
E. A. Knudsen Trust

SPECIAL SETBACK IS

LOT 66

LOT 67

LOT 68

1026 Ac.

1112 Ac.

1188 Ac.

2098 Ac.

ESMT 0153117 10' WIDE
PUBLIC PEDESTRIAN
ACCESS PURPOSES

VIEW CORRIDOR SETBACK 10' WIDE

VIEW CORRIDOR SETBACK 10' WIDE

20 AC.

454.87

39

40

41

ESMT 0153117 PUBLIC PEDESTRIAN ACCESS PURPOSES

SHORELINE BENT FOLLOWS ALONG VERGERS AS OF 03/15/03

EROSION AREA = 2.819 ac

Boundary follows along high water mark as shown on map 25

DROPPED PARCELS

LD.

CT.

PLAT

APP.

06

937

TRUE NORTH
Scale: 1 in. = 60 ft.
PUBLIC CEMETERY

EXHIBIT "C-3"

TRUE NORTH
Scale: 1 in. = 50 ft.

LAND COURT

STATE OF HAWAII

LAND COURT APPLICATION 1076

EROSION TO LOT A-2-C-2 AS SHOWN ON MAP 25
AND SUBDIVISION OF SAID LOT A-2-C-2 LESS EROSION
INTO LOTS 63, 64, 65 AND 66.
DESIGNATION OF EASEMENTS Q, R, S, T, U AND V,
DESIGNATION OF SPECIAL SETBACK LINES
AFFECTING LOTS 63 AND 66.
DESIGNATION OF VIEW CORRIDOR SETBACK
LINES (15 FT. WIDE) AFFECTING LOTS 64 AND 65
AND DESIGNATION OF RESTRICTION OF VEHICULAR
ACCESS RIGHTS AFFECTING LOTS 63, 64, 65 AND 66

AT KIKIOLA, MAINEA, KAUAI, HAWAII

OWNER: Hokuaina Development, LLC
TRANSFER CERTIFICATE OF TITLE: 796, 640

2155 North King Street
Honolulu, Hawaii 96819
March 23, 2006



BELT COLLINS HAWAII LTD.
Robert W. Collins
Licensed Professional Land Surveyor
Certificate Number 4189 Expires 4/20/08
Land Court Certificate Number 1076

I hereby certify that the description of survey and map is a true and correct description of the boundaries of lots 63, 64, 65 and 66 as of March 16, 2006 have been checked and the same found to be in accord.
Honolulu, Hawaii
November 1, 2006
P. F. R. [Signature]
State Land Surveyor

I hereby certify that the description of survey and map is a true and correct description of the boundaries of lots 63, 64, 65 and 66 as of March 15, 2006 of Lot A-2-C-2, and approving the subdivision of said Lot A-2-C-2 into lots 63, 64, 65 and 66, designation of Easements Q, R, S, T, U and V, designation of special setback lines affecting lots 63 and 66, and the designation of view corridor setback lines affecting lots 64 and 65, and the designation of restriction of vehicular access rights affecting lots 63, 64, 65 and 66 as requested in the herein application has been entered on April 16, 2007.
Honolulu, Hawaii
April 16, 2007
P. F. R. [Signature]
Register of the Land Court

Full Return 5, 2006 Return, Registrar, Registrar
July 9, 2006
M. R. [Signature]
State Land Surveyor

The restriction of vehicular access rights affecting lots 63, 64, 65 and 66 as shown on Map 25 is hereby approved by the Land Court dated July 9, 2015.
Honolulu, Hawaii
July 9, 2015

- NOTES:**
- AREA OF EASEMENTS:**
- Easement Q for Access and Utility Purposes affecting Lots 63, 64, 65 and 66 - 3500 Sq. Ft.
 - Easement R for Access and Utility Purposes affecting Lots 63, 64, 65 and 66 - 3500 Sq. Ft.
 - Easement S for Access, Utility and View Corridor Purposes affecting Lots 63, 64, 65 and 66 - 3500 Sq. Ft.
 - Easement T for Access, Utility and View Corridor Purposes affecting Lots 63, 64, 65 and 66 - 3500 Sq. Ft.
 - Easement U for Access, Utility and View Corridor Purposes affecting Lots 63, 64, 65 and 66 - 3500 Sq. Ft.
 - Easement V for Public Protection Access Purposes affecting Lots 63, 64, 65 and 66 - 3500 Sq. Ft.
- denotes no vehicular access permitted
--- denotes access permitted

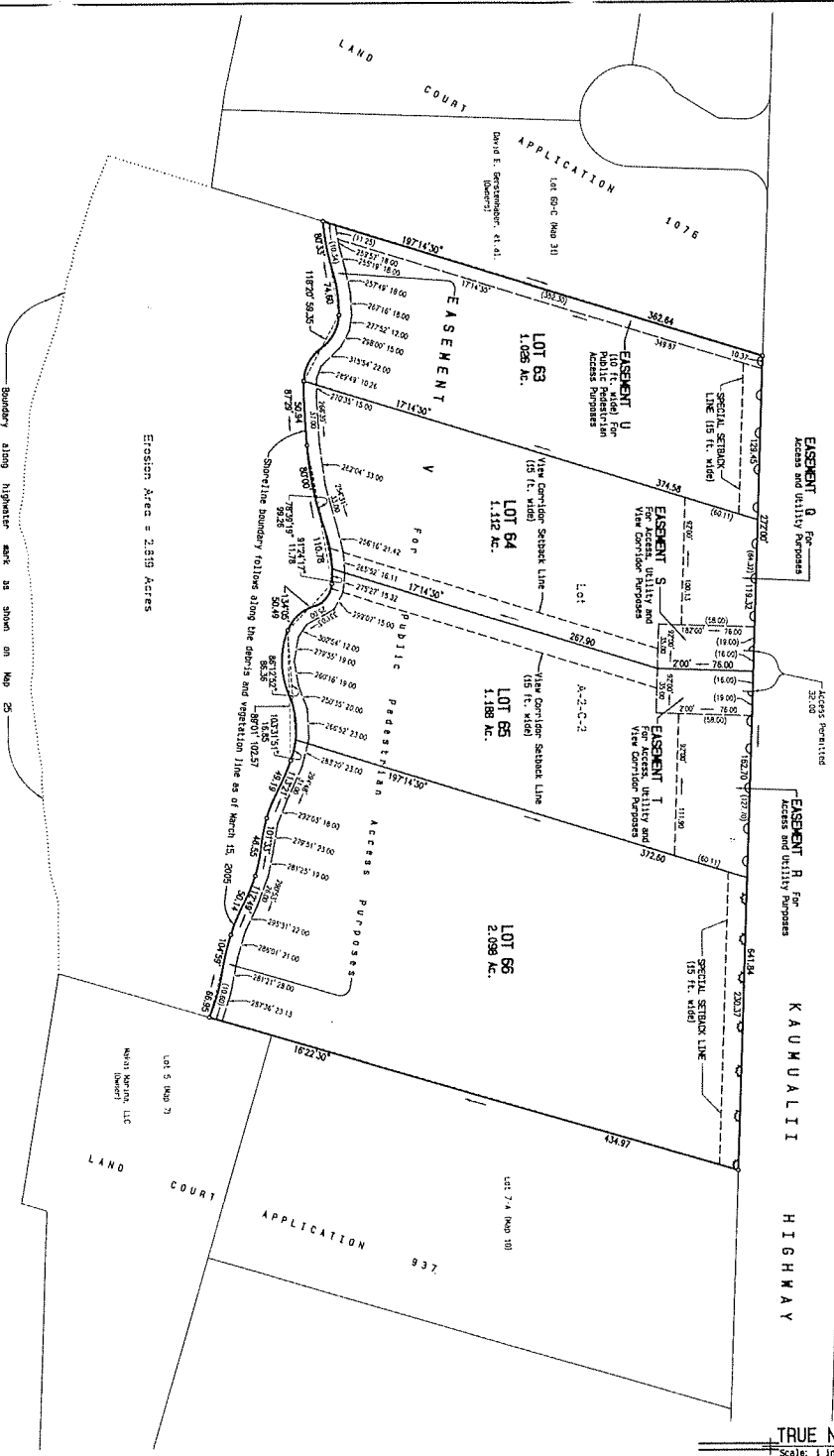


EXHIBIT "C-4"

[illegible]

BOUNDARY AMENDMENTS	
DOCKET NO.	DATE
A88-6 A to J MARSH ISLANDS	NOV 01, 1986 KIRIBATI LAND CO.

ROAD CLASSIFICATION

Medium-duty ☐ Light-duty ☐

Unimproved dirt ☐

State Route ☐

Map of the island of Kauai, scale 1:62,500, is available

KEKAHA, HAWAII
N2156—W15940:7.5

2 1963
K-2

EXHIBIT "C-4"



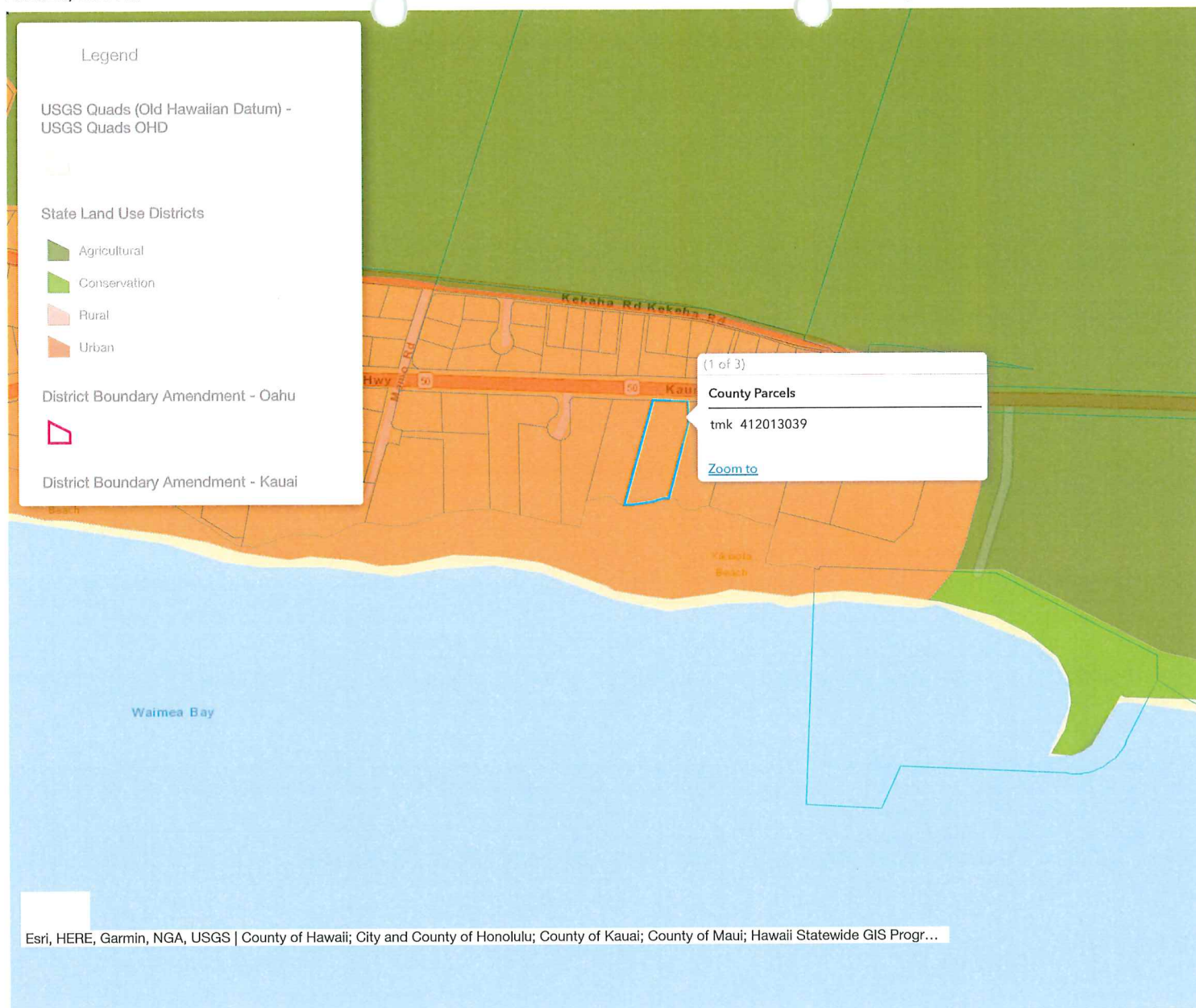


EXHIBIT "C-5"

Figure 5-2 Wainaea-Kekaha Land Use Map

- Planning District Boundary
- Major Roads
- Roads
- Streams
- Reservoirs
- Natural
- Agriculture (A/L)
- Parks and Recreation
- Golf Course
- Homestead
- Residential Community
- Neighborhood Center
- Neighborhood General
- Resort
- Provisional Resort
- Planning Community Plan
- Plantation Camp (descriptive only)
- Transportation
- Military

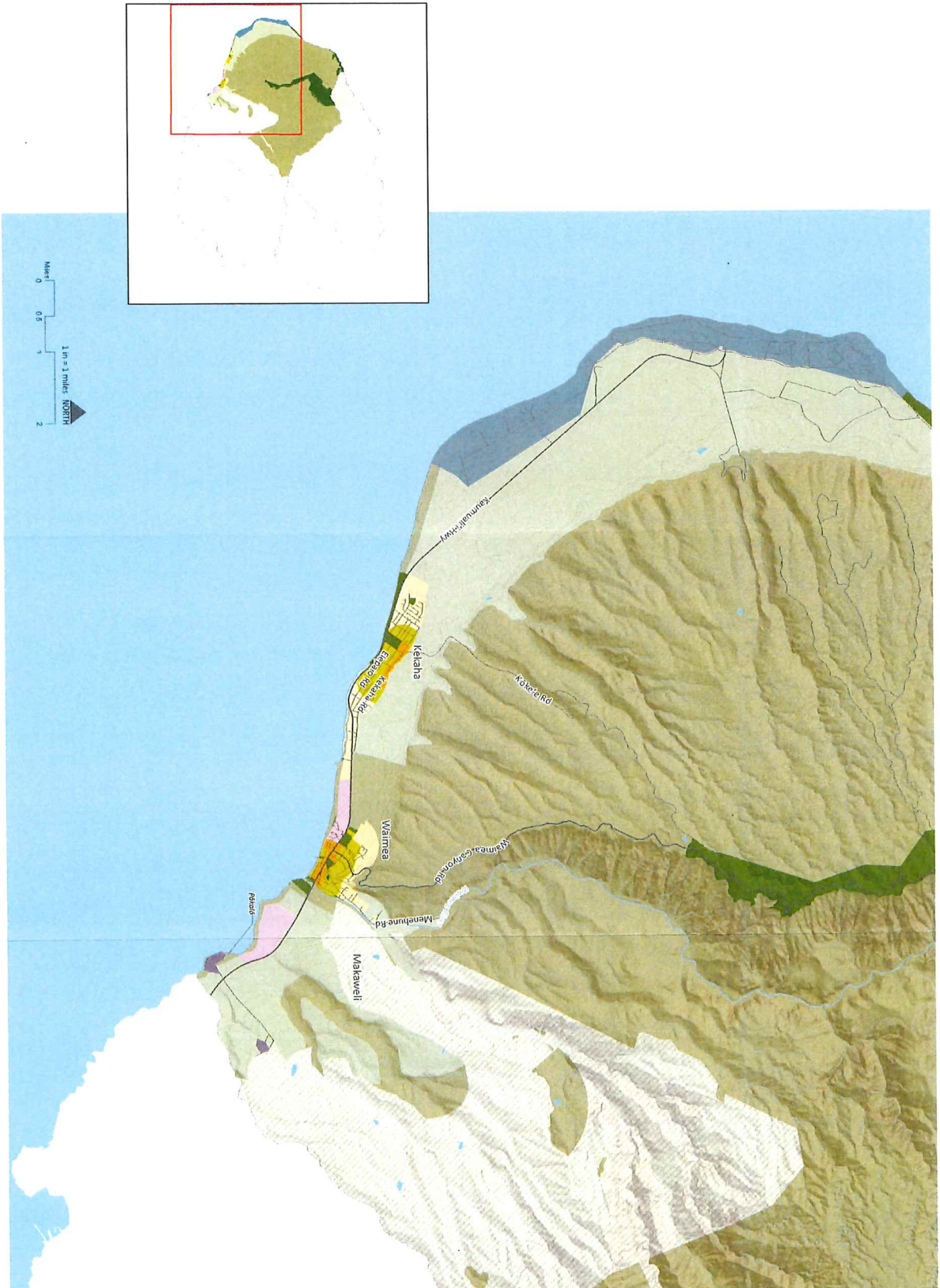


EXHIBIT "C-6"

EXHIBIT "C-6"



200 ft

South Kauai Form Based Code



West Kauai Form Based Code (FBC)



Special Planning Areas (SPA)

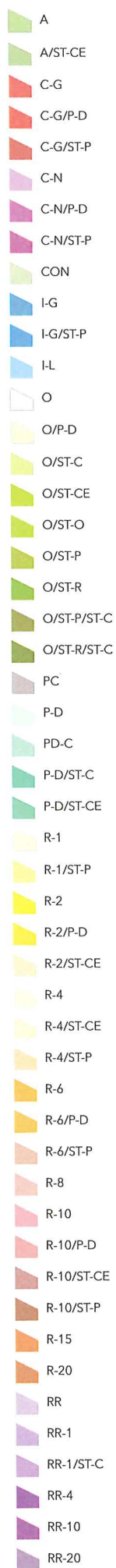


Parcels and CPRs - ALL Parcels CPRs

-  TMK Parcel
-  CPR Unit
-  Public Roadway
-  Non-TMK area

Zoning

-  SEE PLANNING DEPT



SPA-A

ST-C

ST-R

UNV

NO ZONING

TMK Parcel

TMK Parcel

Tax Map Key	412013040
Owner	HOKUAINA DEVELOPMENT LLC
Real Property Parcel Information	View
Parcel Type	TMK Parcel

County of Kauai Zoning: O/ST-CE (Open Space/Special Treatment - Coastal Edge)

County of Kauai Zoning: O/ST-CE (Open Space/Special Treatment - Coastal Edge)

ZONING	O/ST-CE
DESCRIPTION	Open Space/Special Treatment - Coastal Edge



200 ft

South Kauai Form Based Code



West Kauai Form Based Code (FBC)



Special Planning Areas (SPA)

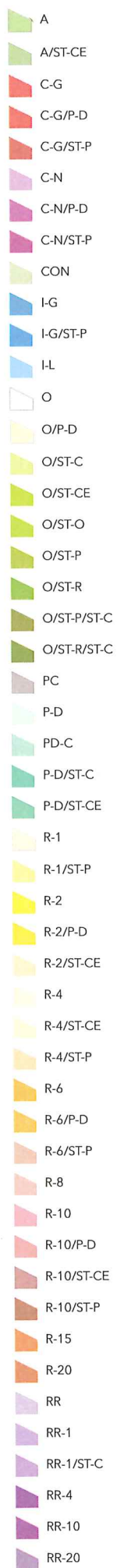


Parcels and CPRs - ALL Parcels CPRs

- TMK Parcel
- CPR Unit
- Public Roadway
- Non-TMK area

Zoning

- SEE PLANNING DEPT



SPA-A

ST-C

ST-R

UNV

NO ZONING

TMK Parcel

TMK Parcel

Tax Map Key	412013039
Owner	HOKUAINA DEVELOPMENT LLC
Real Property Parcel Information	View
Parcel Type	TMK Parcel

County of Kauai Zoning: O/ST-CE (Open Space/Special Treatment - Coastal Edge)

County of Kauai Zoning: O/ST-CE (Open Space/Special Treatment - Coastal Edge)

ZONING	O/ST-CE
DESCRIPTION	Open Space/Special Treatment - Coastal Edge

EXHIBIT "C-7"

KEKAHA TOWN PLAN MAP

Legend























-  Town Center
-  Walkable Neighborhood
-  Residential Neighborhood
-  Public Facilities
-  Coastal Edge
-  Agriculture
-  Park
-  Natural
-  TMK Parcels
-  Bridge
-  Cemetery
-  Harbor
-  Mill
-  Neighborhood Center
-  Post Office
-  School
-  Contour 40ft
-  Ditches
-  Shoreline Armoring Structures
-  Local Roads
-  Other Roads
-  Highways



FIGURE 13 | Kekaha Town Plan Map

EXHIBIT "C-8"

100 COUNTRY

THE LAND USE DISTRICTS

INNOVATION DISTRICT

ATURE DISTRICT

DISTRICT 13DISTRICT 5

MANAGEMENT AREA

PTED BY COUNTY OF KAUAI

Approved 11-28-75
Edmund L. McElroy Jr.
 Mayor

AMENDMENTS

mits to Chapter 205A, M.R.S., in Accordance With Act 200, Session 2001.

Source: State Map Amendment of Adopted November, 1981

in 8-26-83
 10/1/83
 10/1/83
 10/1/83

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

9 WAS FINANCED IN PART BY THE COASTAL ZONE MANAGEMENT ACT
HOSTED BY THE OFFICE OF COASTAL ZONE MANAGEMENT, NATIONAL

ADMINISTRATION, UNITED STATES DEPARTMENT OF COMMERCE.

[illegible]

undary is the Seaward Edge of the Line

Federal Lands Exclusion:

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher for the 10-trial condition than for the 5-trial condition. Error bars represent the standard error of the mean.

A map of the study area in Syria. It shows the Mediterranean Sea to the west, the city of Hama to the north, and the study site (Hassan) to the south. The map includes a scale bar (0 to 10 km) and a north arrow.

1000

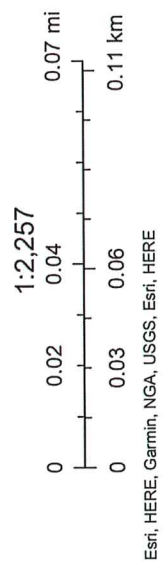
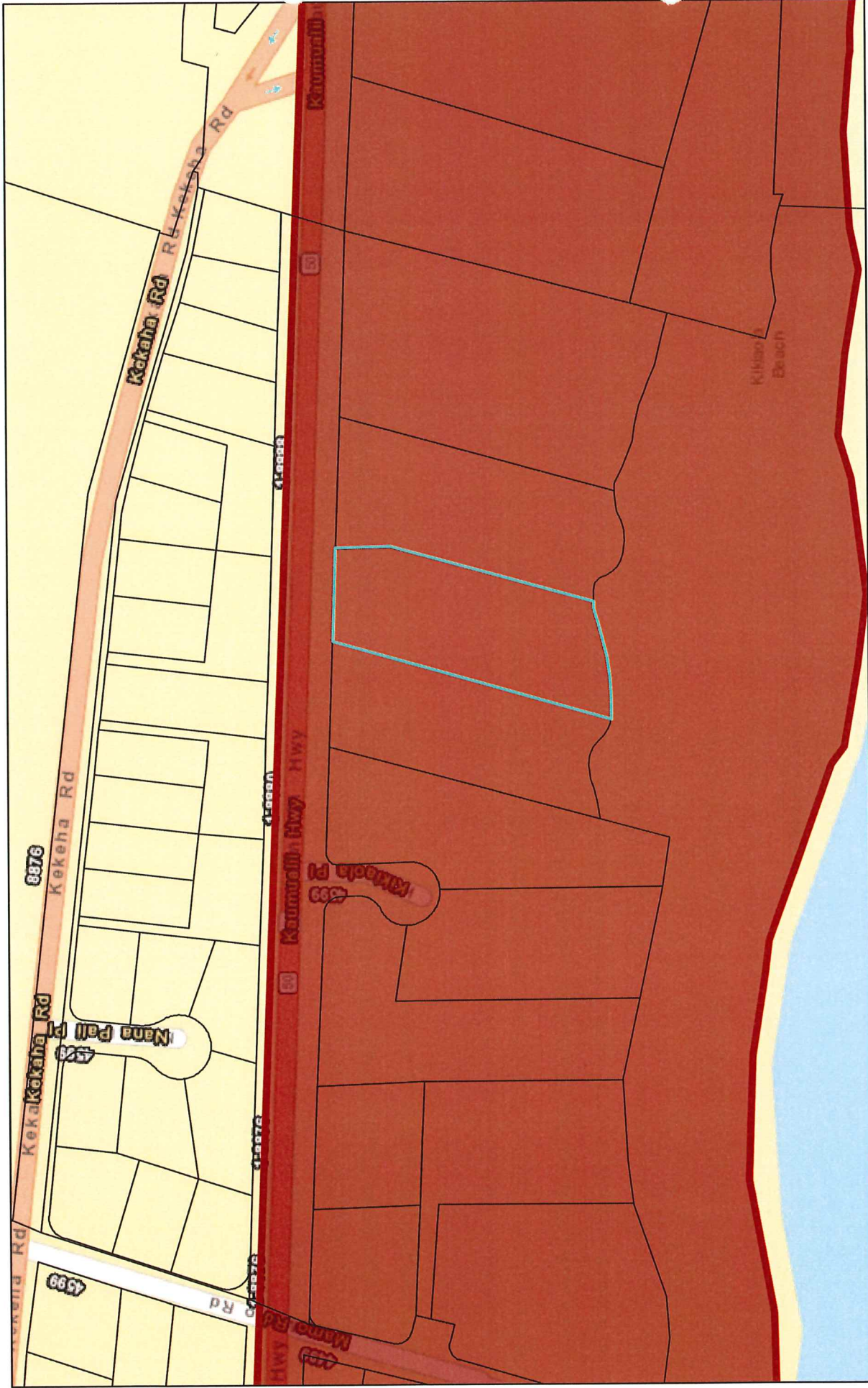
EXHIBIT "C-8"

An aerial map of the Kilauea Beach area. The map shows a large, irregularly shaped parcel of land in the center, outlined in red. This parcel is divided into several smaller sections by thin black lines. To the left of the main parcel is a road labeled 'Kekaha Rd' and 'Kilauea Rd'. To the right is a road labeled 'Kilauea Rd'. The map also shows a 'Kilauea Beach' area on the right side. A small, irregularly shaped parcel is highlighted in red within the main parcel. The map includes various labels for roads and landmarks, such as 'Kekaha Rd', 'Kilauea Rd', 'Kilauea Beach', and 'Kilauea Point'. The map is oriented with North at the top.

1:2,257



SMA



October 21, 2023

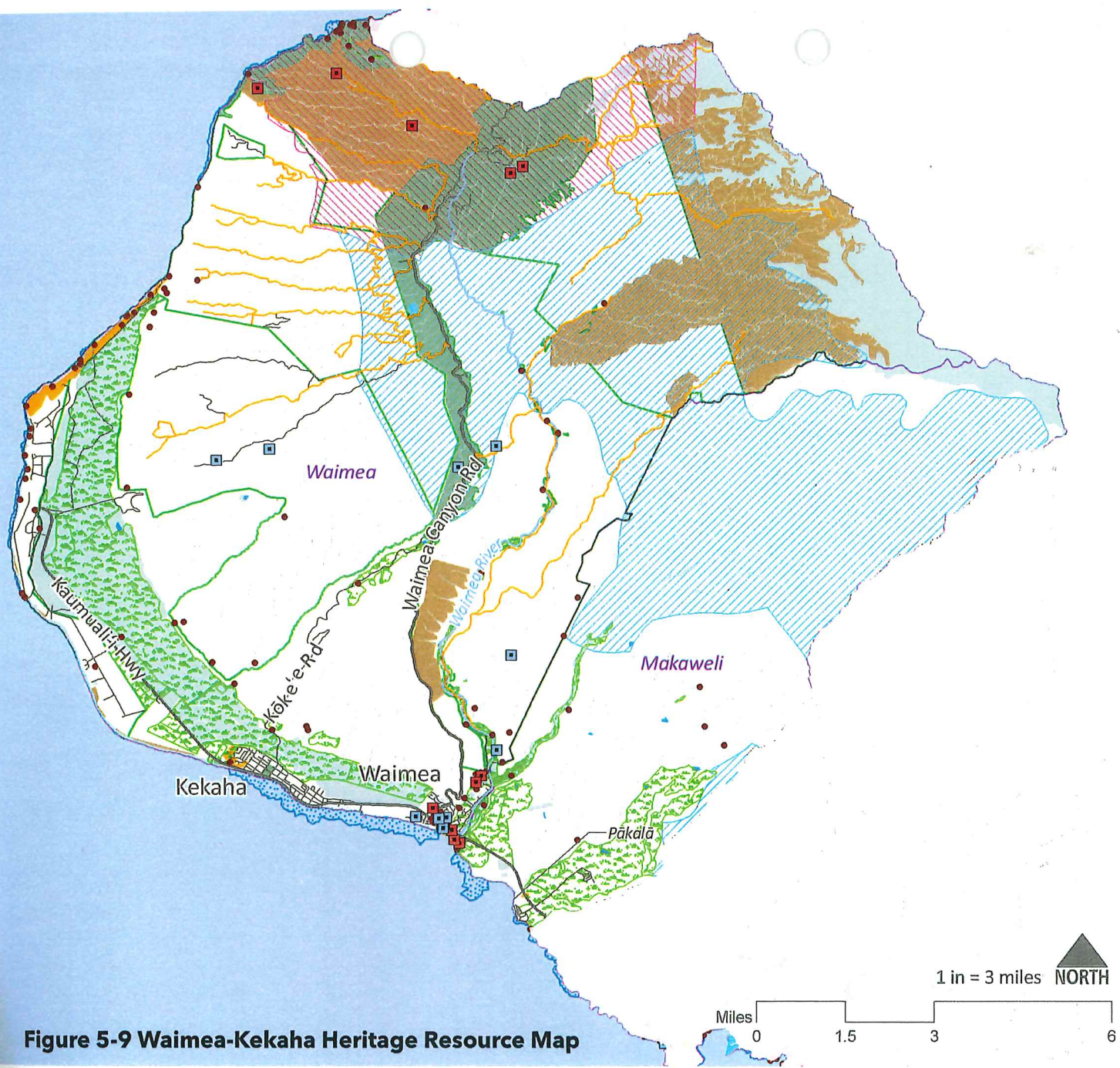


Figure 5-9 Waimea-Kekaha Heritage Resource Map

Registered Historic Sites

- State
- National
- State & National
- Cultural Features
- ▲ Priority Public Access Points
- ◆ Fish Ponds
- Streams & Waterbodies
- Major Roads
- Roads

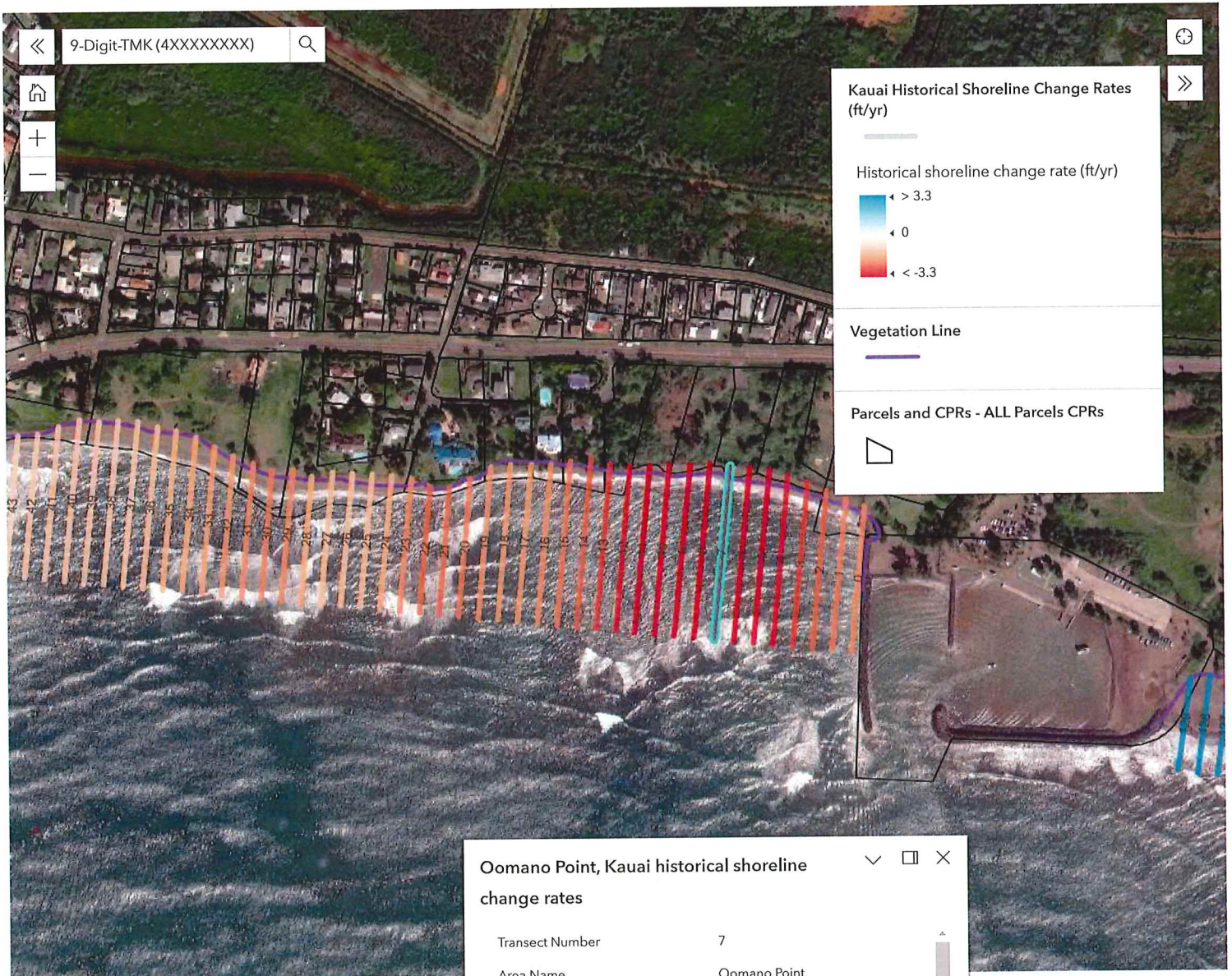
- Trails
- Planning District Boundary
- Ahupua'a Boundaries
- Wetlands
- Coral Reefs
- Regulated Fishing Areas
- State & County Parks
- Preserves
- Reservoirs

- Traditional Cultivation Areas
- Sand Dunes
- Open Space Acquisition Priorities
- Critical Habitat
- Threatened & Endangered Species
- High Density
- Very High Density

EXHIBIT "C-9"

EXHIBIT "C-10"

Kauai Shoreline Change Map



Oomano Point, Kauai historical shoreline change rates

Transect Number	7
Area Name	Oomano Point
Historical shoreline change rate (ft/yr)	-4.17

[Image 1](#)

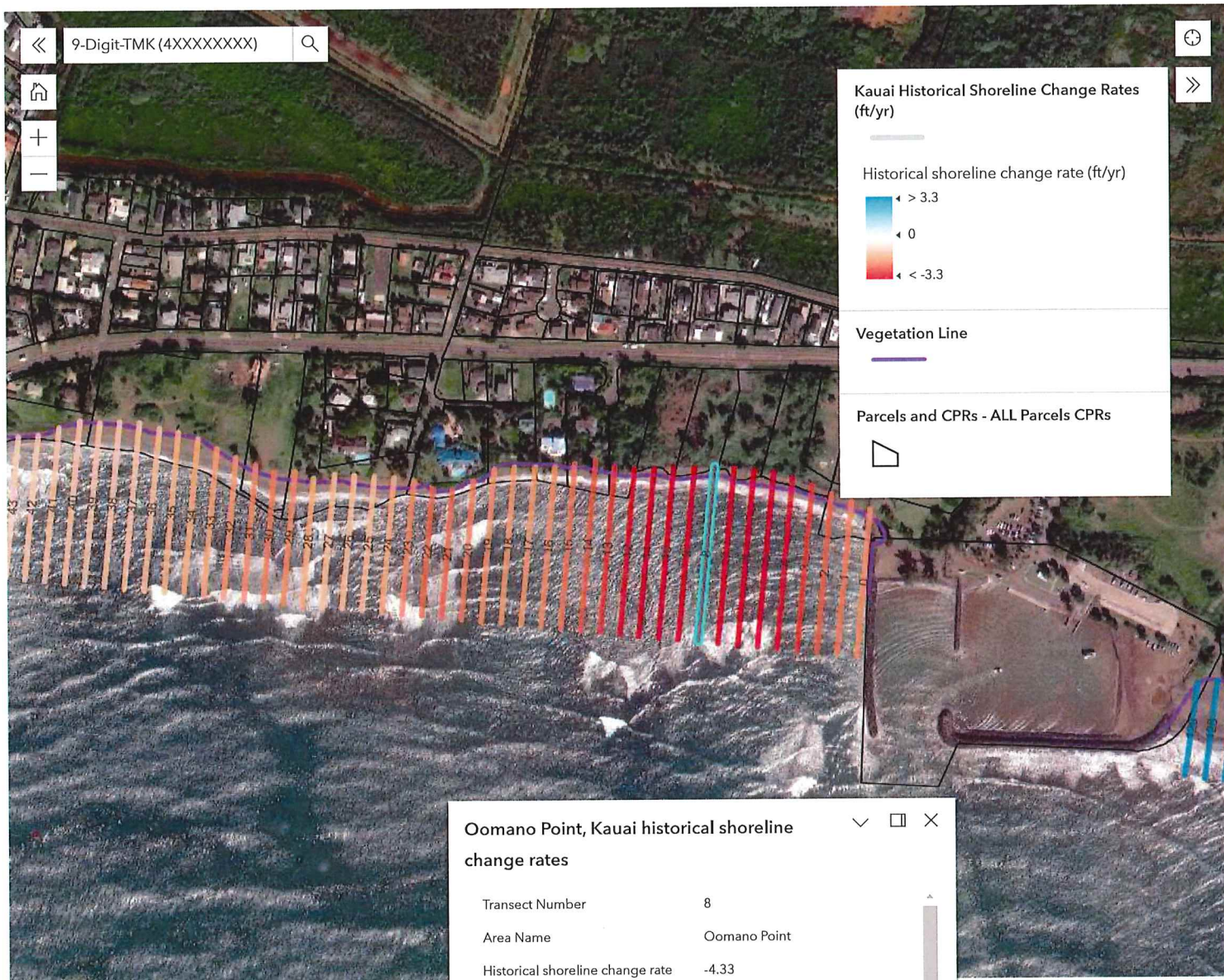
Zoom to

500 ft

EXHIBIT "C-10"

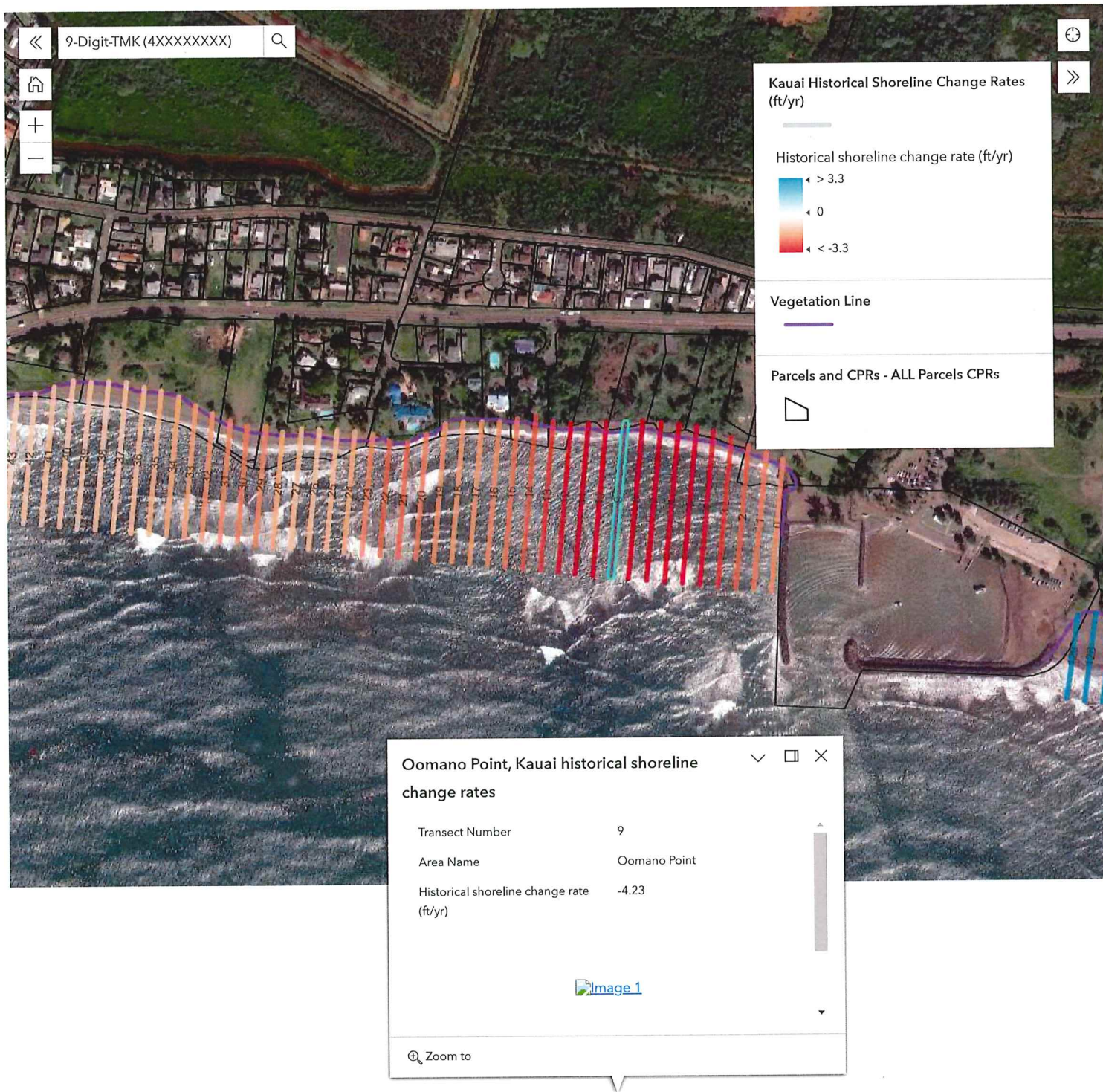
- Kauai Historical Shoreline Change Rates (ft/yr)
- Vegetation Line
- Parcels and CPRs - ALL Parcels CPRs

Kauai Shoreline Change Map



- ☒ Kauai Historical Shoreline Change Rates (ft/yr)
- ☒ Vegetation Line
- ☒ Parcels and CPRs - ALL Parcels CPRs

Kauai Shoreline Change Map



500 ft

👁️ **Kauai Historical Shoreline Change Rates (ft/yr)**

👁️ **Vegetation Line**

👁️ **Parcels and CPRs - ALL
Parcels CPRs**

EXHIBIT "C-11"



Kaua'i Sea Level Rise Constraint District Viewer



EXHIBIT "C-11"

100 ft



Kaua'i Sea Level Rise Constraint District Viewer



Parcels and CPRs

Owner	HOKUAINA DEVELOPMENT LLC
TMK	412013040

📍 Zoom to

100 ft

Parcels and CPRs

Owner

HOKUAINA DEVELOPMENT LLC

TMK

412013040

Zoom to

100 ft



Kaua'i Sea Level Rise Constraint District Viewer



Parcels and CPRs ▼ 📄 ✕

Owner	HOKUAINA DEVELOPMENT LLC
TMK	412013039

Zoom to

100 ft

100 ft

Parcels and CPRs

Owner

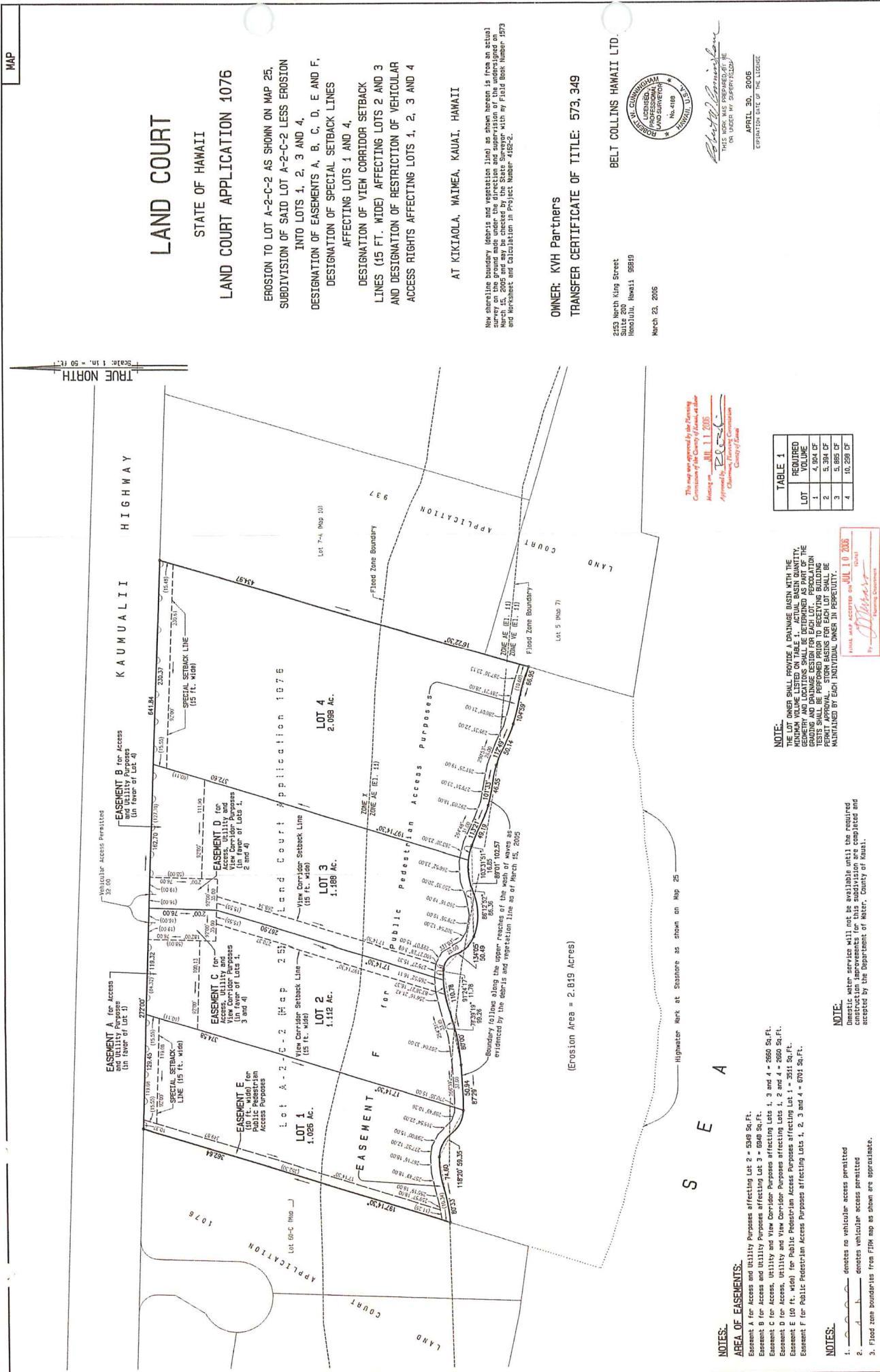
HOKUAINA DEVELOPMENT LLC

TMK

412013039

🔍 Zoom to

EXHIBIT "D-1"



LAND COURT

STATE OF HAWAII

LAND COURT APPLICATION 1076

EROSION TO LOT A-2-C-2 AS SHOWN ON MAP 25,
SUBDIVISION OF SAID LOT A-2-C-2 LESS EROSION
INTO LOTS 1, 2, 3 AND 4,
DESIGNATION OF EASEMENTS A, B, C, D, E AND F,
DESIGNATION OF SPECIAL SETBACK LINES
AFFECTING LOTS 1 AND 4,
DESIGNATION OF VIEW CORRIDOR SETBACK
LINES (15 FT. WIDE) AFFECTING LOTS 2 AND 3
AND DESIGNATION OF RESTRICTION OF VEHICULAR
ACCESS RIGHTS AFFECTING LOTS 1, 2, 3 AND 4

AT KIKIAOLA, WAIMEA, KAUAI, HAWAII

New shoreline boundary (debris and vegetation line) as shown herein is from an actual survey conducted on the shoreline of the subject property on or about March 15, 2005 and may be checked by the State Surveyor with my Field Book Number 1573 and Verdict and Calculation in Project Number 4182-2.

OWNER: KVH Partners

TRANSFER CERTIFICATE OF TITLE: 573, 349

2453 North King Street
Suite 200
Honolulu, Hawaii 96819

BELT COLLINS HAWAII LTD.



Robert M. Channing
THIS MAP WAS PREPARED BY ME
OR UNDER MY SUPERVISION

APRIL 30, 2006
EXPIRATION DATE OF THE LICENSE

TABLE 1	
LOT	REQUIRED VOLUME
1	4, 904 CF
2	5, 394 CF
3	5, 895 CF
4	10, 298 CF

NOTE:
THE LAND OWNER SHALL PROVIDE A DRAINAGE BASIN WITH THE
DETERMINED VOLUME LISTED ON TABLE 1. ACTUAL BASIN QUANTITY,
GEOMETRY AND LOCATIONS SHALL BE DETERMINED AS PART OF THE
PERMIT APPLICATION. THE DRAINAGE BASIN SHALL BE DESIGNED AND
TESTS SHALL BE PERFORMED PRIOR TO RECEIVING BUILDING
PERMIT APPROVAL. STORM BASINS FOR EACH LOT SHALL BE
MAINTAINED BY EACH INDIVIDUAL OWNER IN PERPETUITY.

APPROVED BY: *[Signature]*
COUNTY ENGINEER
COUNTY OF HAWAII

NOTE:
Domestic water service will not be available until the required
construction has been completed and accepted by the Department of Water, County of Hawaii.

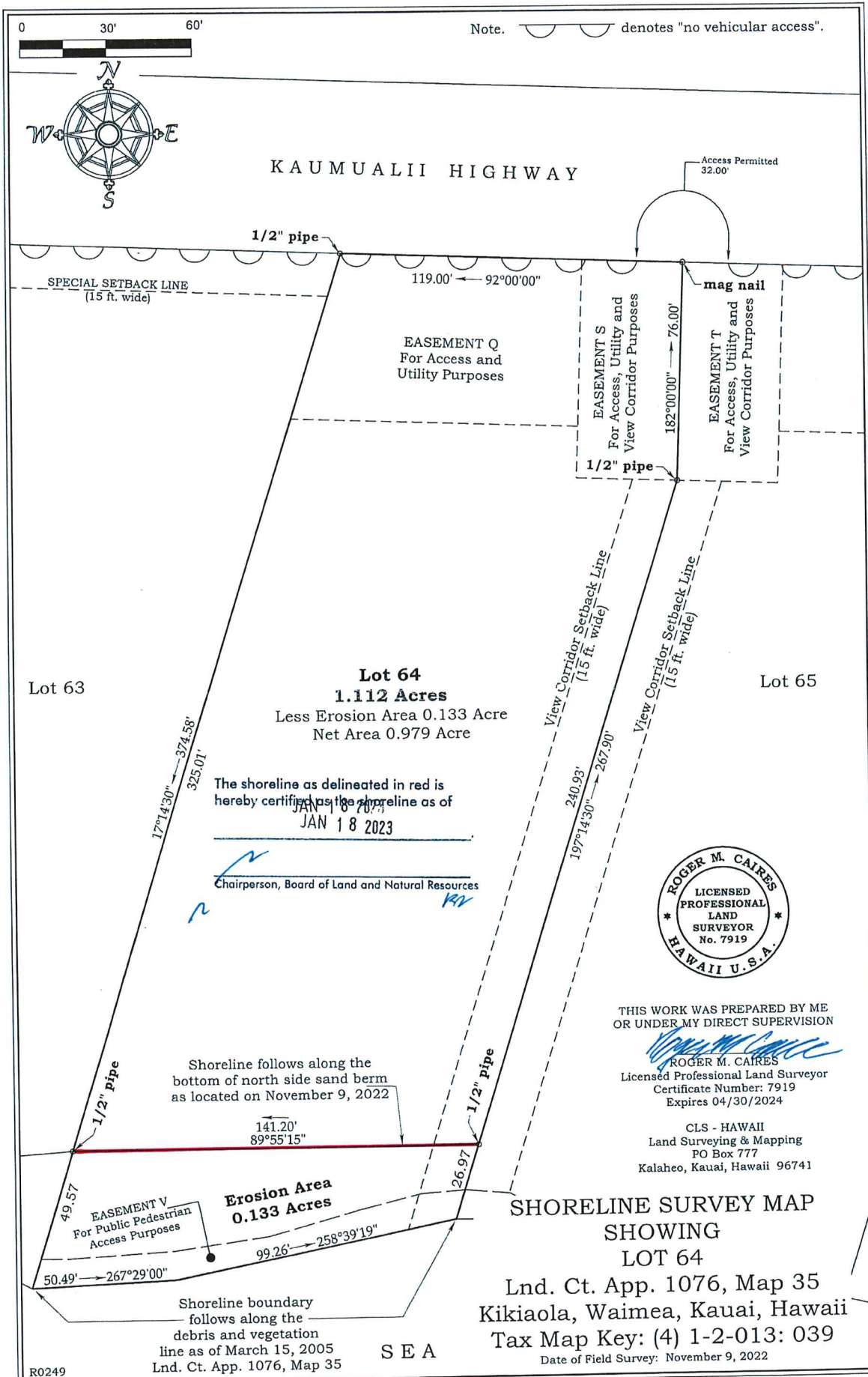
NOTES:

- AREA OF EASEMENTS:
Easement A for Access and Utility Purposes affecting Lot 2 = 5348 Sq. Ft.
Easement B for Access and Utility Purposes affecting Lot 3 = 6948 Sq. Ft.
Easement C for Access, Utility and View Corridor Purposes affecting Lots 1, 3 and 4 = 2660 Sq. Ft.
Easement D for Access, Utility and View Corridor Purposes affecting Lots 1, 2 and 3 = 2441 Sq. Ft.
Easement E (10 ft. wide) for Public Pedestrian Access Purposes affecting Lot 1 = 841 Sq. Ft.
Easement F for Public Pedestrian Access Purposes affecting Lots 1, 2, 3 and 4 = 6701 Sq. Ft.

NOTES:

1. denotes no vehicular access permitted
2. denotes restricted vehicular access permitted
3. Flood zone boundaries from FEMA map as shown are approximate.

EXHIBIT "D-2"



Traverse PC

EXHIBIT "D-2"

SURVEY OFFICE COPY

CLS HAWAII



PO Box 777
Kalaheo, Kauai, Hawaii 96741
Office (808) 635-3700 - Fax (866) 592-2475
www.clshawaii.com
surveyor1@clshawaii.com



TMK: (4) 1-2-013: 039, Lot 64

Photo A

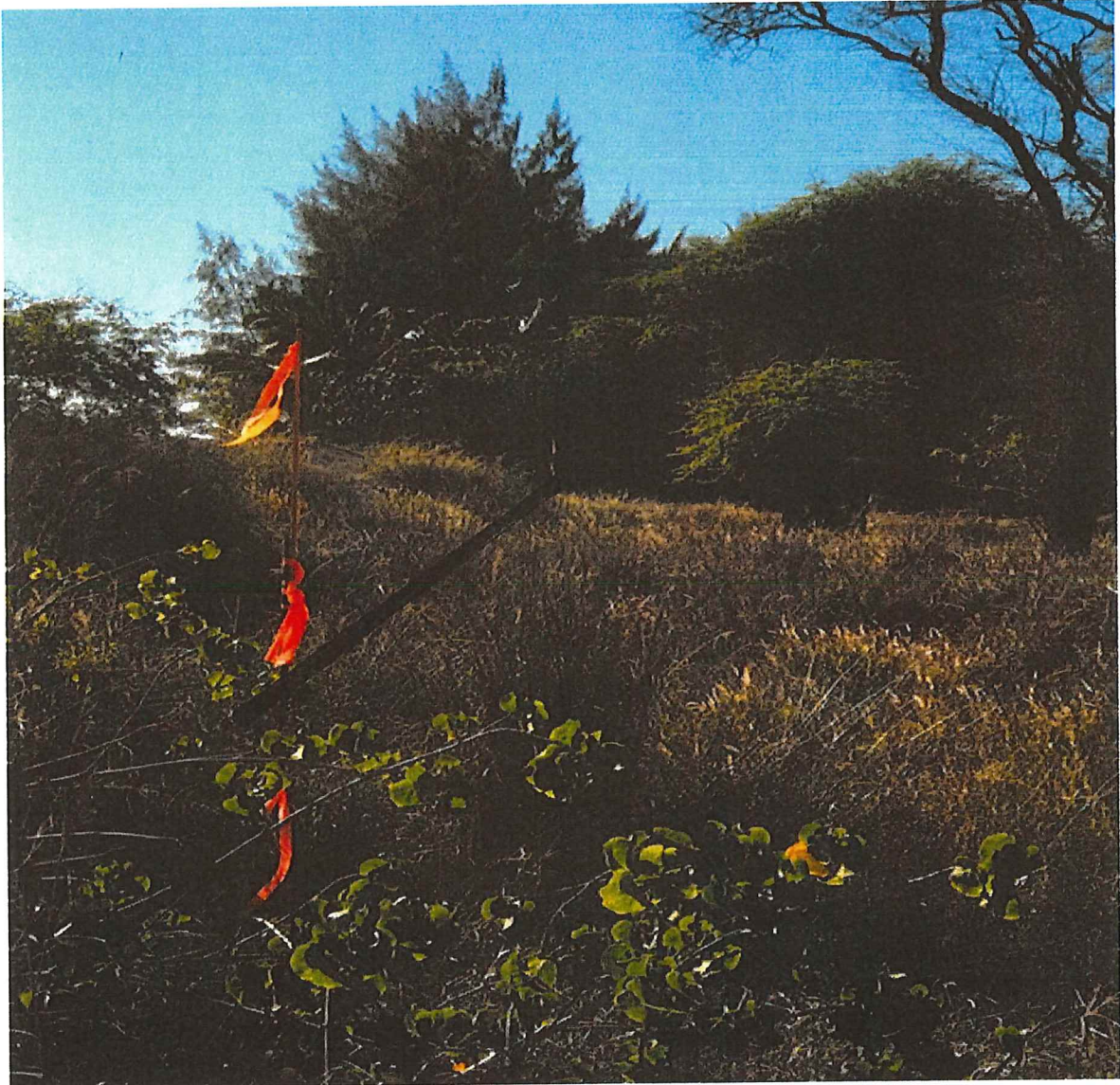
Date: November 9, 2022

Time: 2:00pm

CLS HAWAII



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Kalaheo, Kauai, Hawaii 96741
Office (808) 635-3700 - Fax (866) 592-2475
www.clshawaii.com
surveyor1@clshawaii.com**

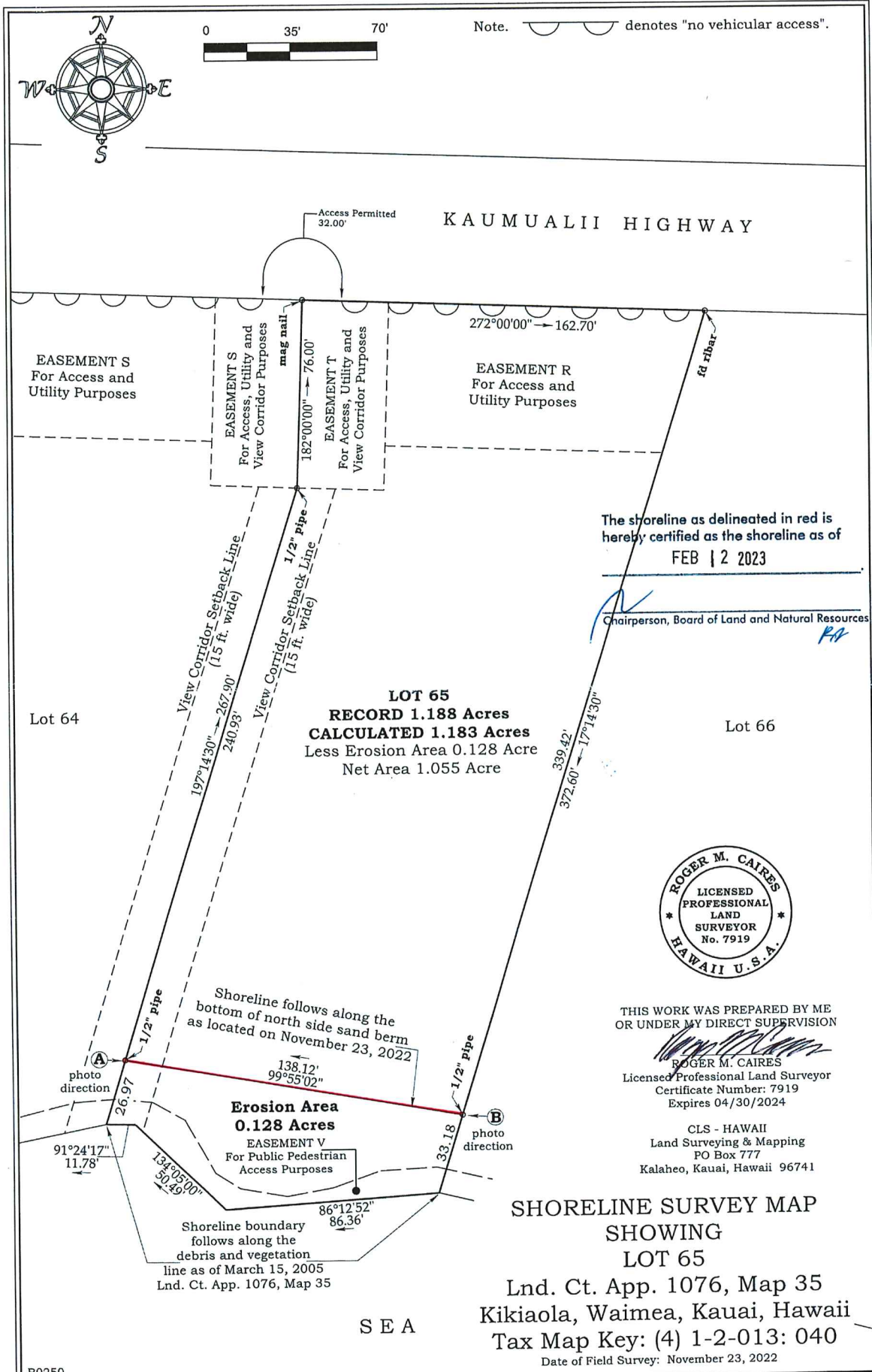


TMK: (4) 1-2-013: 039 Lot 64

Photo B

Date: November 9, 2022

Time: 2:00pm



CLS HAWAII



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www.clshawaii.com
surveyor1@clshawaii.com**



TMK: (4) 1-2-013: 040, Lot 65

Photo A

Date: November 23, 2022

Time: 2:00 pm

CLS HAWAII



**PO Box 777
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Office (808) 635-3700 - Fax (866) 592-2475
www.clshawaii.com
surveyor1@clshawaii.com**



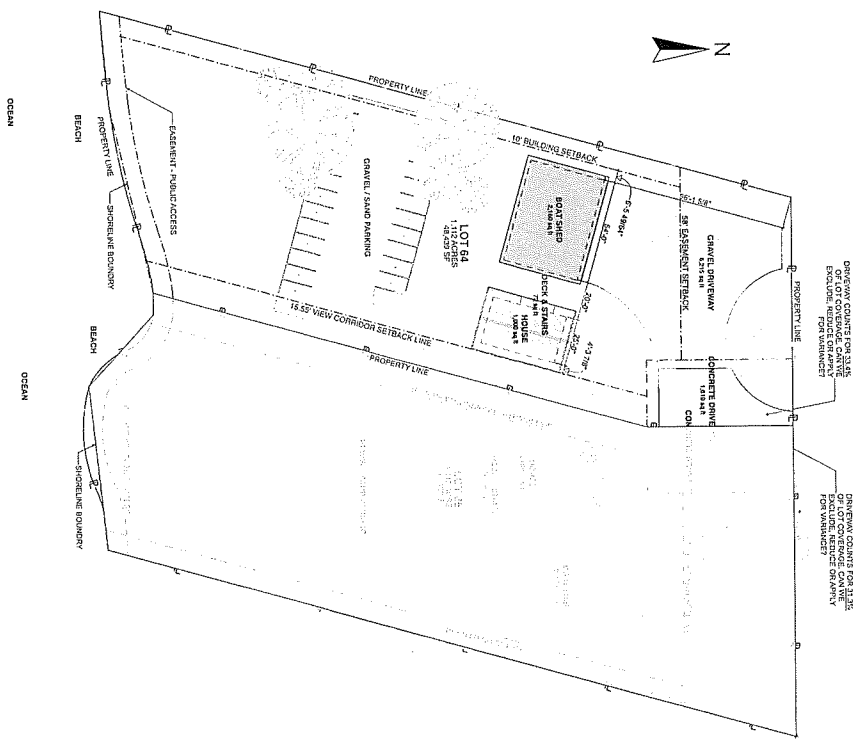
TMK: (4) 1-2-013: 040, Lot 65

Photo B

Date: November 23, 2022

Time: 2:00 pm

EXHIBIT "E-1"



1 SITE PLAN
SCALE: 1" = 30'

ARCHITECT



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KAILUA, HI 96752

CERTIFICATION

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PROJECT
HALE WA'A

Sheet Address
(4) 1-2-013-009-0000
PROJECT NUMBER: 22018
ISSUE DATE: 6/29/22
DRAWING ISSUE:

OVERALL SITE PLAN
A.013

PRINT ID
C02

ARCHITECT



NOHO WORKSHOP
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CLIENT

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KUALA, HI 96732

CERTIFICATION

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PROJECT

HALE WA'A
#Signed Address
(4) 1-2-913-039-0000
PROJECT NUMBER: 22018
ISSUE DATE: 02/2022
DRAWING ISSUE:

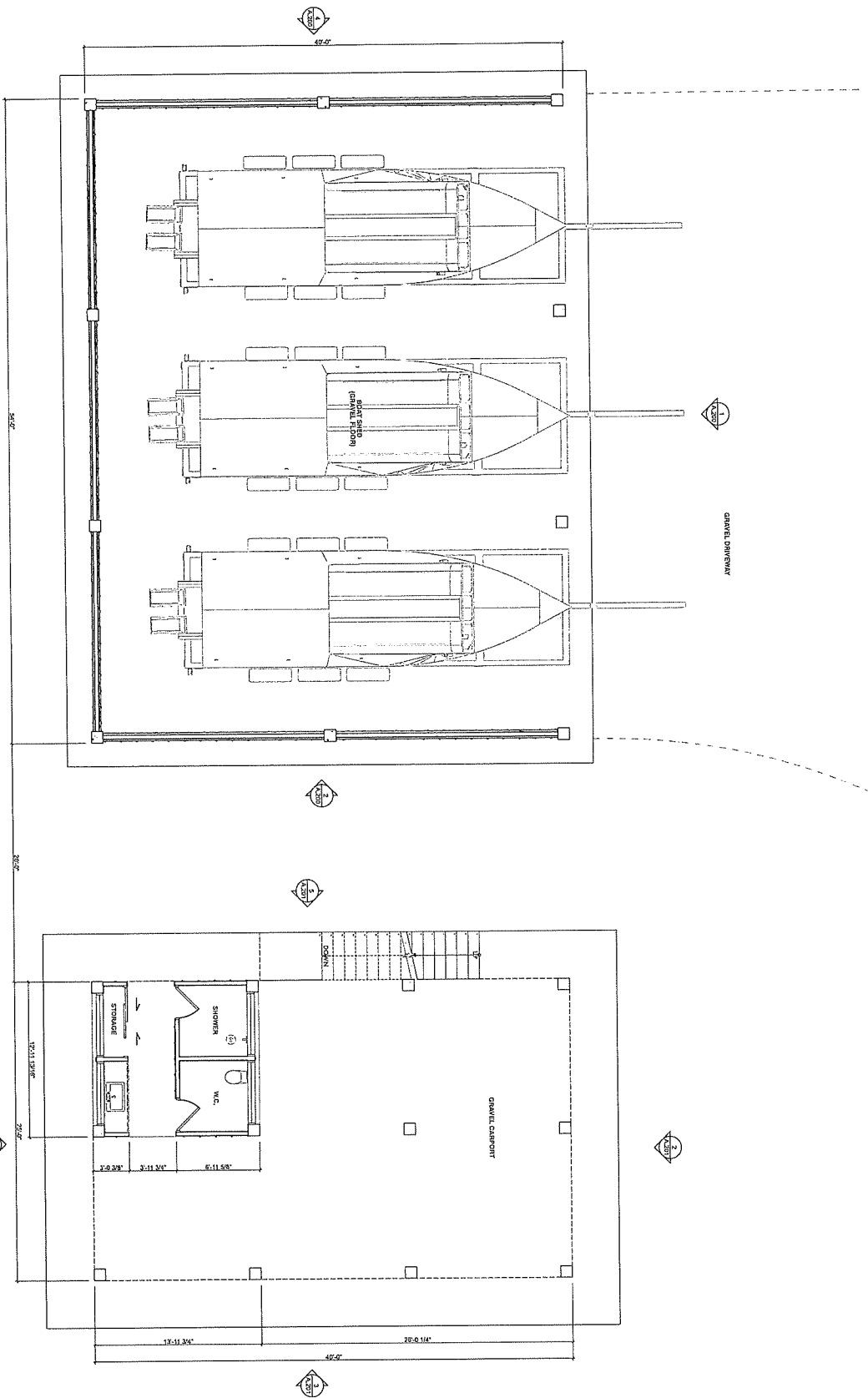
GROUND LEVEL FLOOR
PLAN

A.100

PERMIT ID

A01

1 0. FIRST FLOOR
SCALE: 1/8" = 1'-0"



ARCHITECT



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PROJECT
HALE WA'A

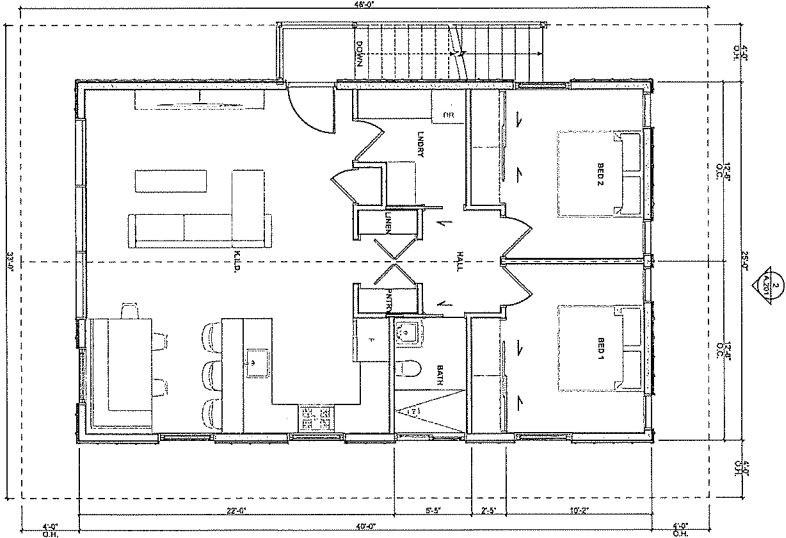
ISSUED Address
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PROJECT NUMBER: 22715
ISSUE DATE: 8/29/22
DRAWING ISSUE:

2ND LEVEL FLOOR PLAN

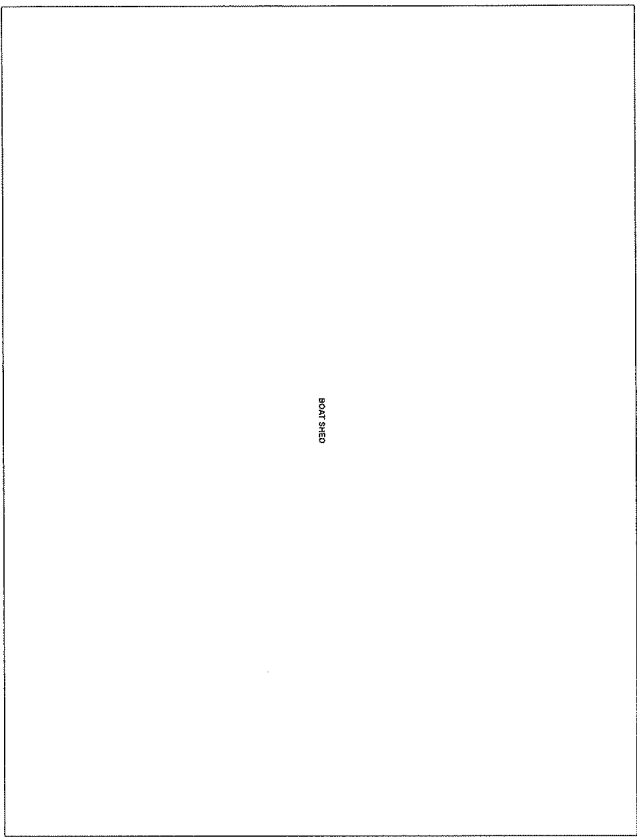
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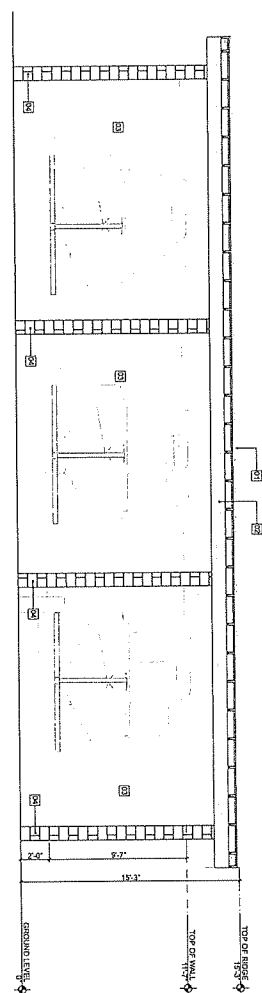
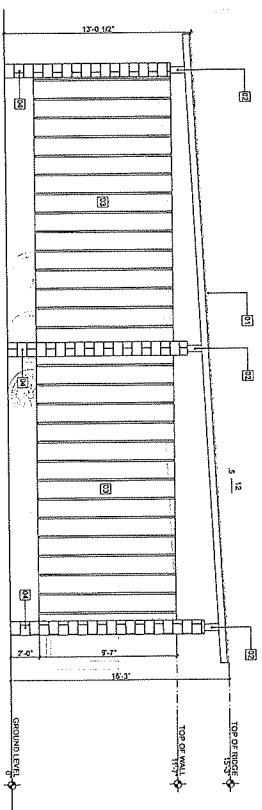
PERMIT ID

A02



1 2. SECOND LEVEL
SCALE: 1/8" = 1'-0"





- | ELEVATION AND SECTION KEYNOTES | |
|--------------------------------|-----------------------------------------------|
| 01 | CONCRETE/PAVED METAL ROOF (COLOR - DARK GREY) |
| 02 | STRUCTURAL WOOD BEAM (COLOR - NATURAL WOOD) |
| 03 | BROAD AND BUTTER SIDING (COLOR - DARK GREY) |
| 04 | CHARTRAY CHAIR DOORWAY (COLOR - NATURAL WOOD) |
| 05 | BELLY BARD (COLOR - NATURAL WOOD) |
| 06 | DOORS (COLOR - NATURAL WOOD) |
| 07 | WINDOWS (COLOR - NATURAL WOOD) |
| 08 | DECK FRAILING (COLOR - NATURAL FIB) |
| 09 | DECKING (COLOR - NATURAL FIB) |
| 10 | METAL ROOF FLASHING (COLOR - DARK GREY) |

ARCHITECT

noho
工作坊

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E: kandia@nohodesigns.com

CLIENT

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KAUMUALI HWY.
KOKAUA, HI 96752

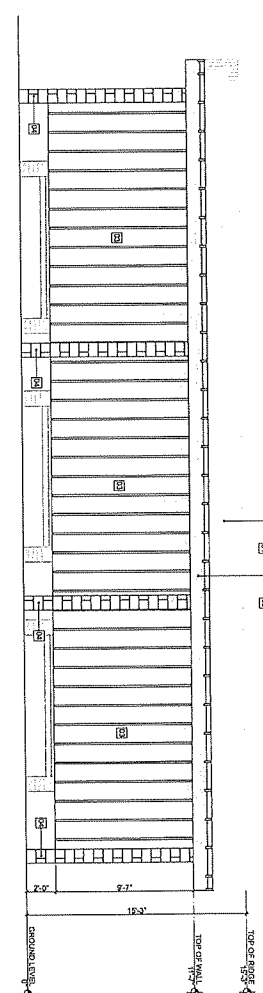
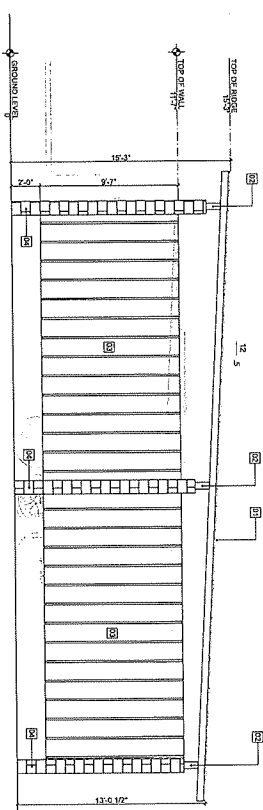
CERTIFICATION

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PROJECT

HALE WA'A

#Street Address
(4) 1-2-013-039-0000
PROJECT NUMBER: 22018
ISSUE DATE: 8/29/22
DRAWING ISSUE:



BOAT SHED ELEVATIONS

A.200

PERMIT ID

A03

- ELEVATION AND SECTION KEYNOTES
- 1 CORRUGATED METAL ROOF COLOR - DARK GREY
 - 2 STRUCTURAL WOOD BEAM COLOR - NATURAL WOOD
 - 3 BROWN AND WHITE STONE COLOR - DARK GREY
 - 4 STRUCTURAL DOW COLUMN COLOR - NATURAL WOOD
 - 5 BELLY BAND COLOR - NATURAL WOOD
 - 6 DOORS COLOR - NATURAL WOOD
 - 7 WINDOWS COLOR - NATURAL WOOD
 - 8 DECK FLOORING COLOR - NATURAL WOOD
 - 9 CLADDING COLOR - NATURAL WOOD
 - 10 METAL ROOF FLASHING COLOR - DARK GREY

ARCHITECT

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CLIENT

MARTINE ROSE
KIMMALLI WY
KEMURA, IL 60132

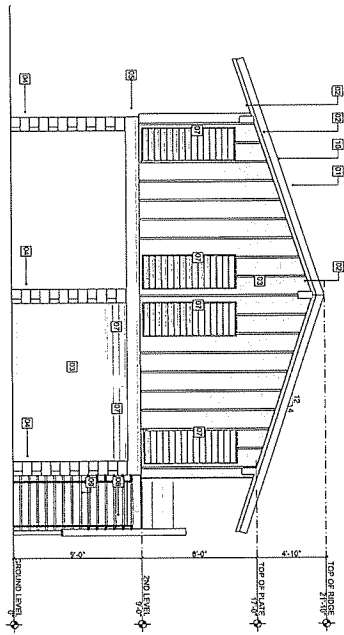
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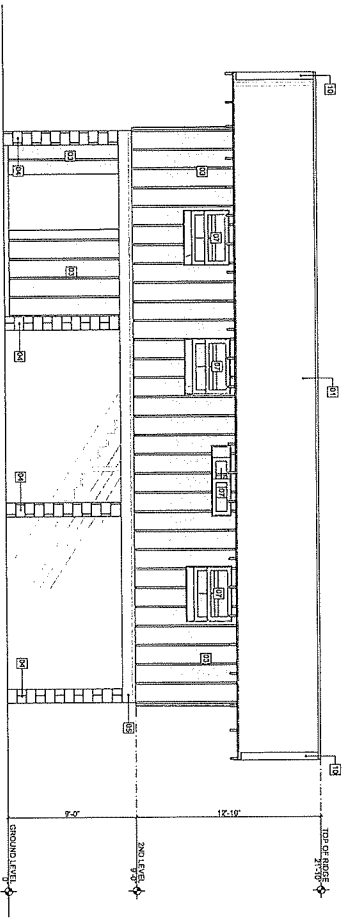
PROJECT

HALE WA/A

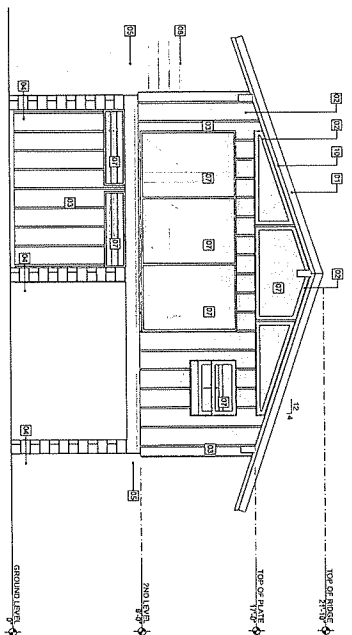
ARCHITECT ADDRESS
(41) 152-013-688-0000
PROJECT NUMBER: 22018
ISSUE DATE: 02/2022
DRAWING ISSUE:



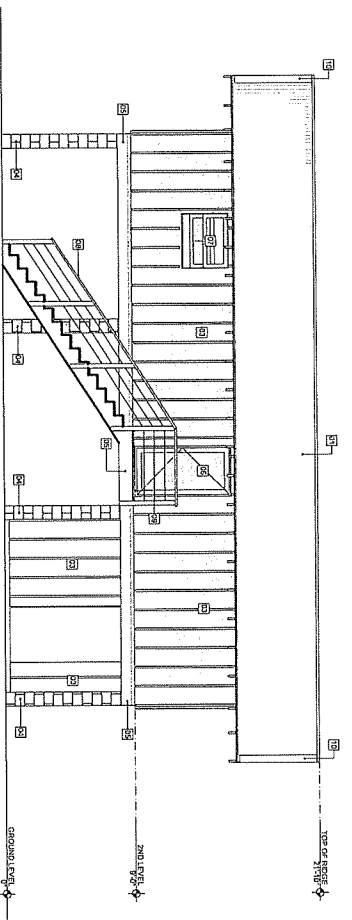
2 B-01 North
SCALE: 1/4" = 1'-0"



3 B-02 EAST
SCALE: 1/4" = 1'-0"



4 B-03 SOUTH
SCALE: 1/4" = 1'-0"



5 B-04 WEST
SCALE: 1/4" = 1'-0"

HOUSE ELEVATIONS

A.201

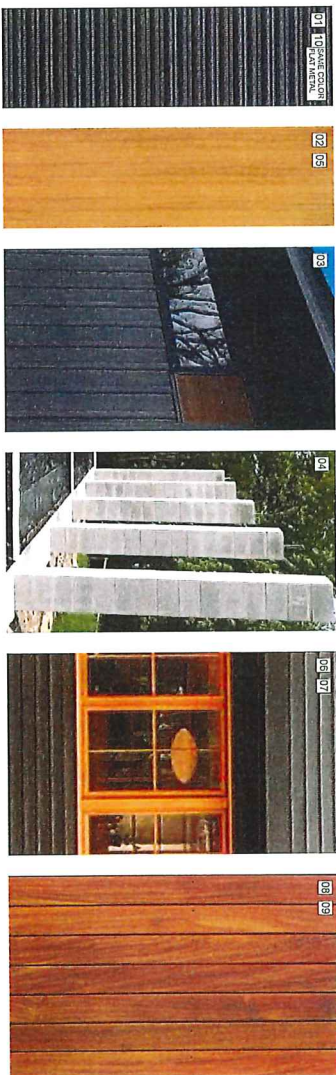
PERMIT ID

A04



ELEVATION AND SECTION KEYNOTES

- 01 CORRUGATED METAL ROOF (COLOR - DARK GREY)
- 02 STRUCTURAL WOOD BEAM (COLOR - NATURAL WOOD)
- 03 BOARD AND BATTEN SIDING (COLOR - DARK GREY)
- 04 STRUCTURAL CMU COLUMN (COLOR - NATURAL WOOD)
- 05 BELLY BAND (COLOR - NATURAL WOOD)
- 06 DOORS (COLOR - NATURAL WOOD)
- 07 WINDOWS (COLOR - NATURAL WOOD)
- 08 DECK RAILING (COLOR - NATURAL IPE)
- 09 DECKING (COLOR - NATURAL IPE)
- 10 METAL ROOF FLASHING (COLOR - DARK GREY)



ARCHITECT



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KOSHAU, HI 96752

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PROJECT

HALE WA'A

ISSUED & DATED:

(0) 1/2/2013-008-0000

PROJECT NUMBER: 22818

ISSUE DATE: 6/29/22

DRAWING ISSUE:

COLOR PALETTE

PERMIT ID

A05

EXHIBIT "E-2"

ARCHITECT



NOHO WORKSHOP
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1770 KOLE RD.
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E: kanaka@nohodesigns.com

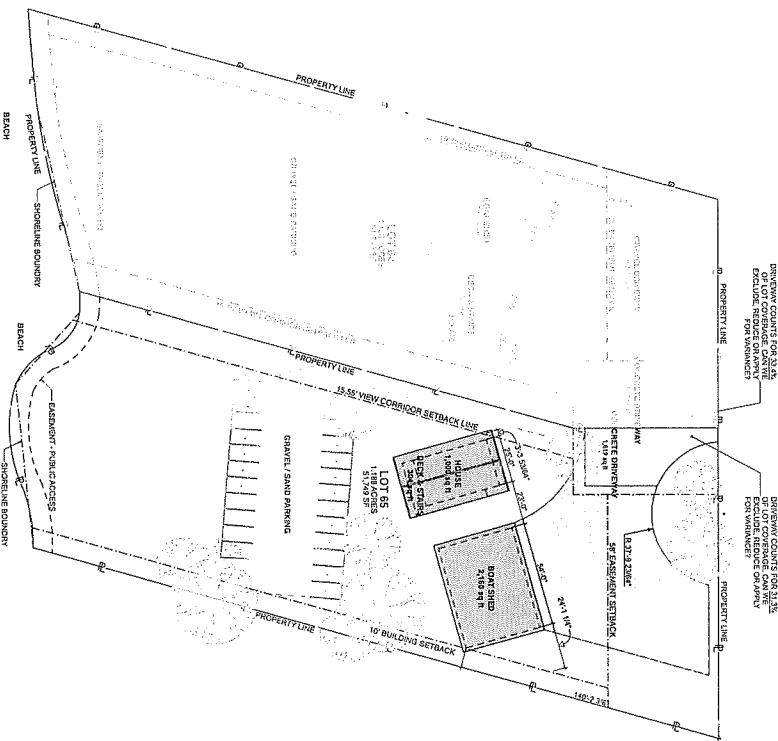
CLIENT
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KAMUKULU HWY.
KIAULA, HI 96752

CERTIFICATION

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PROJECT
**NATE -
WORKER
HOUSING**

Address: Address
(4) 1-2-2013-0000000
PROJECT NUMBER: 22018
ISSUE DATE: 02/22
DRAWING ISSUE:



ARCHITECT



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ARCHITECT, A.S.-B731
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E: KANG@NOLIOWORKSHOP.COM

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AND TO THE BEST OF MY KNOWLEDGE AND BELIEF
IT COMPLY WITH ALL CITY, STATE AND FEDERAL
REQUIREMENTS.

PROJECT

NATE -
WORKER
HOUSING

Project Address:

(9) 1-2-013-040-0000

PROJECT NUMBER: 22018

ISSUE DATE: 8/29/22

DRAWING ISSUE:

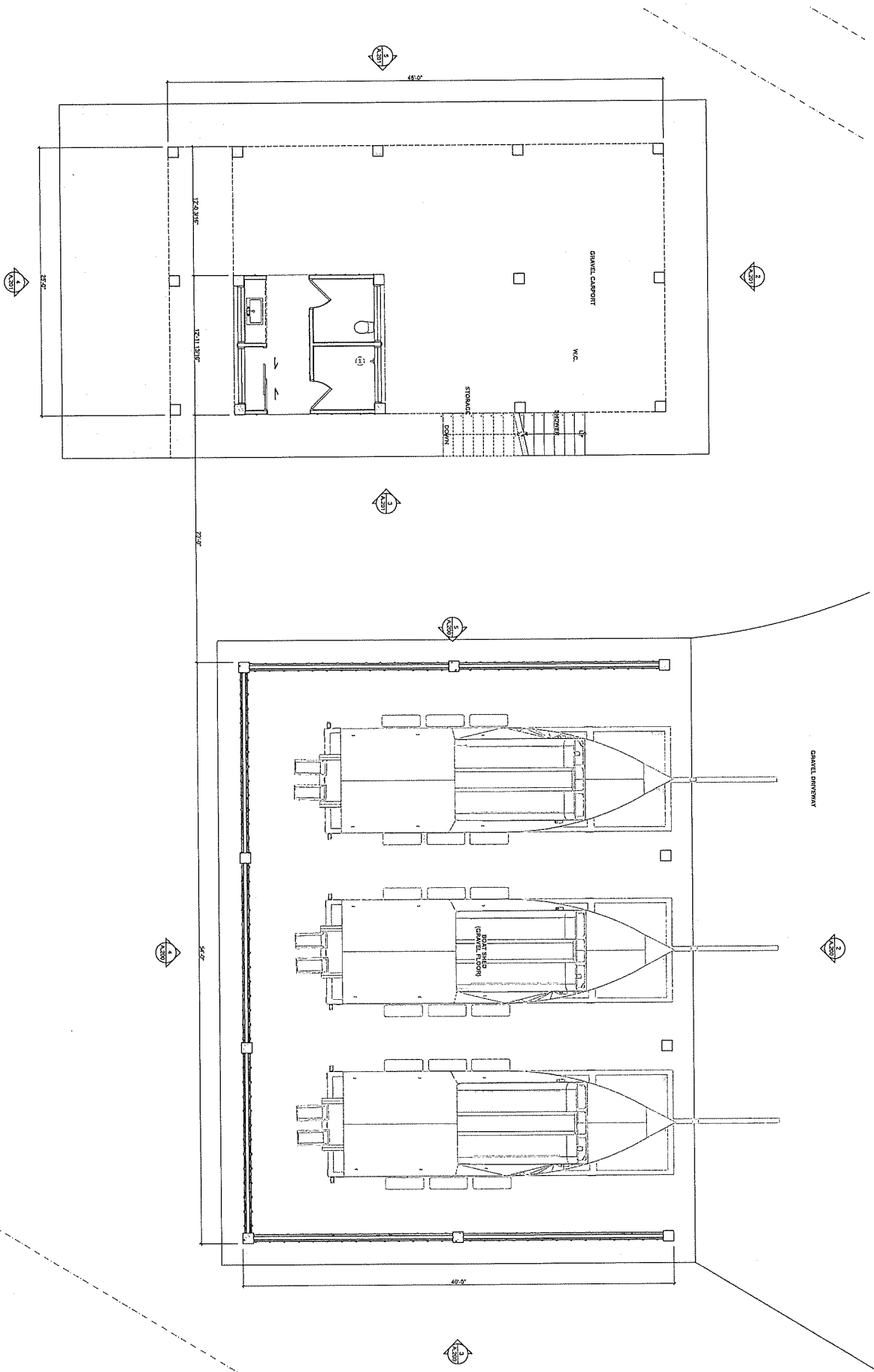
GROUND LEVEL FLOOR
PLAN

A.100

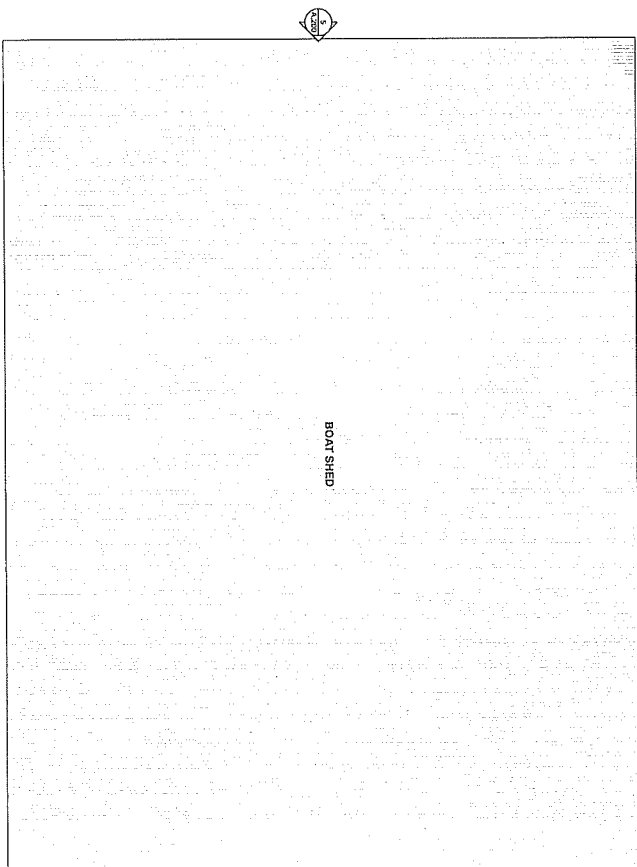
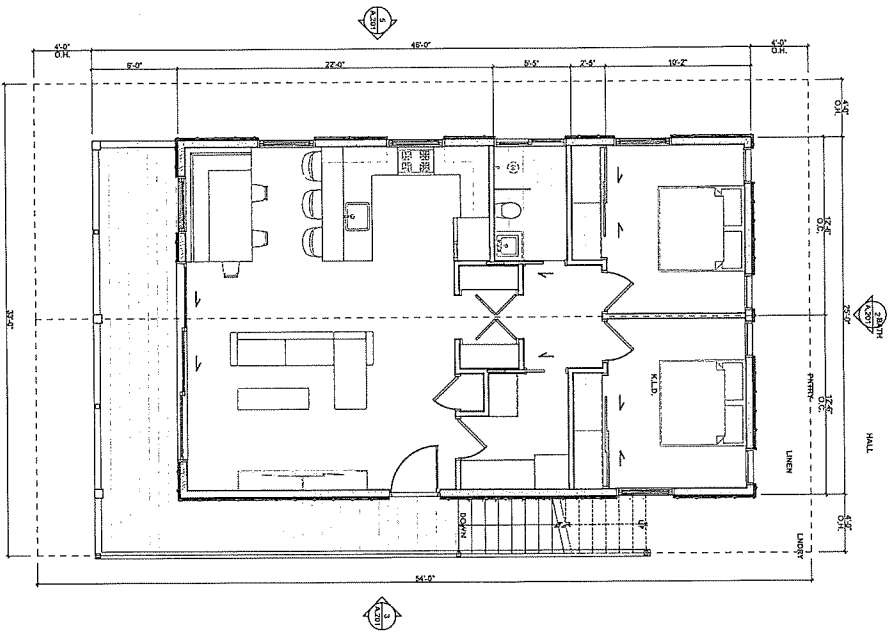
PERMIT ID

A01

0. FIRST FLOOR
SCALE: 1/8" = 1'-0"



NO. 2



ARCHITECT

noho
工作坊

NOHO WORKSHOP
KARON CHUNG
ARCHITECT A.S. 18731
1100 KOLLODZ
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CLIENT

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KAPUWALI HWY
KAPUWALI, HI 96732

CERTIFICATION

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OR ENGINEERS OR SURVEYORS OR
OTHER PROFESSIONAL PERSONS

**PROJECT -
NATE -
WORKER
HOUSING**

#Signed Address

PROJECT NUMBER: 2018

ISSUE DATE: 9/20/22

DRAWING ISSUE:

2ND LEVEL FLOOR PLAN

A.101

PERMIT ID

A02

2. SECOND LEVEL
SCALE 1/8" = 1'-0"

- ELEVATION AND SECTION KEYNOTES
- 1 COMBUSTIBLE METAL ROOF COLOR - DARK GREY
 - 2 STRUCTURAL WOOD COLOR - NATURAL WOOD
 - 3 BRUED AND BUTTIN SIDING COLOR - DARK GREY
 - 4 STRUCTURAL CHAM COLUMN COLOR - NATURAL WOOD
 - 5 BELT BAND COLOR - NATURAL WOOD
 - 6 DOORS COLOR - NATURAL WOOD
 - 7 WINDOWS COLOR - NATURAL WOOD
 - 8 DECK PALING COLOR - NATURAL PIR
 - 9 DECORIC COLOR - NATURAL PIR
 - 10 METAL ROOF FLASHING COLOR - DARK GREY

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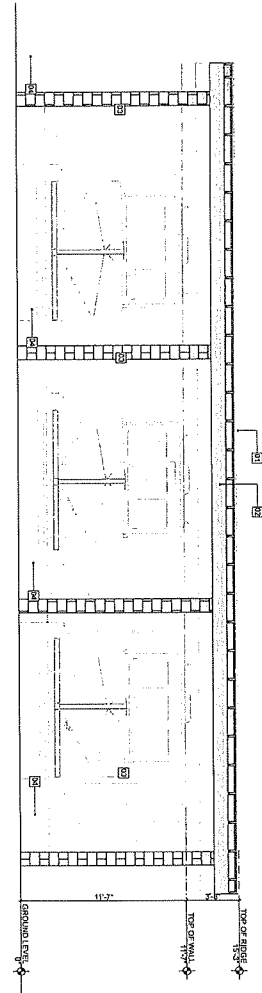
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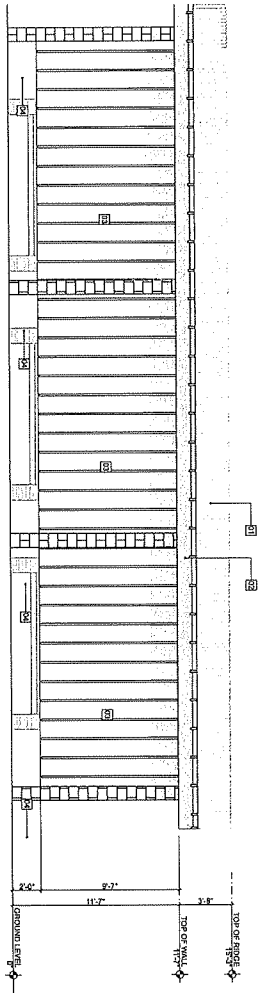
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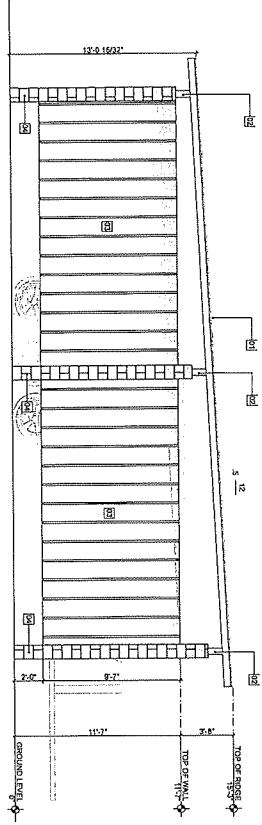
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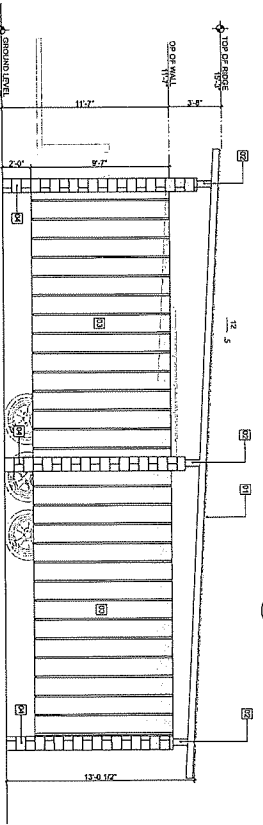
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4 A-03 SOUTH
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3 A-02 EAST
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5 A-04 WEST
SCALE 1/4" = 1'-0"

BOAT SHED ELEVATIONS

A.200

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A03

- ELEVATION AND SECTION KEYNOTS
- 1 CORRUGATED METAL ROOF (COLOR - DARK GREY)
 - 2 STRUCTURAL WOOD (COLOR - NATURAL WOOD)
 - 3 SOLID AND MATCH STAIN (COLOR - DARK GREY)
 - 4 STRUCTURAL COLD COLUMN (COLOR - NATURAL WOOD)
 - 5 BELT BAND (COLOR - NATURAL WOOD)
 - 6 DOORS (COLOR - NATURAL WOOD)
 - 7 WINDOWS (COLOR - NATURAL WOOD)
 - 8 DECK RAILING (COLOR - NATURAL WOOD)
 - 9 DECOR (COLOR - NATURAL WOOD)
 - 10 METAL ROOF FLASHING (COLOR - DARK GREY)

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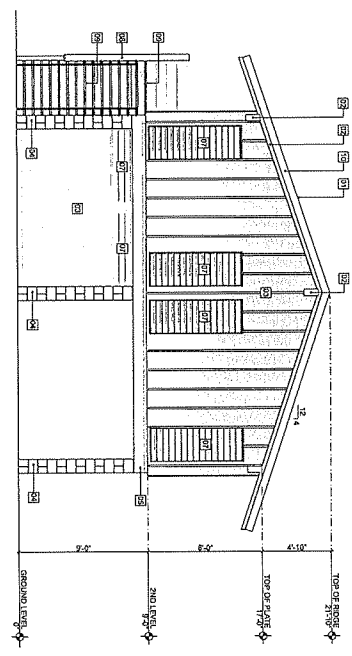
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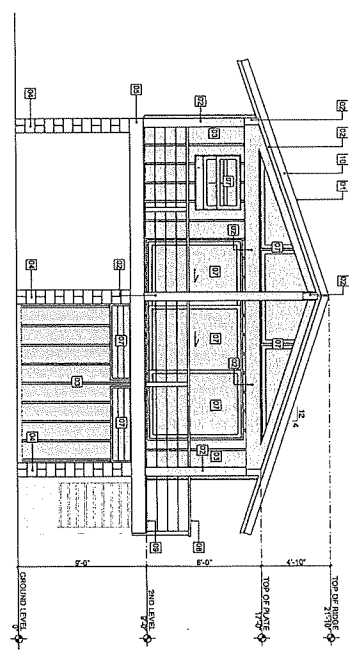
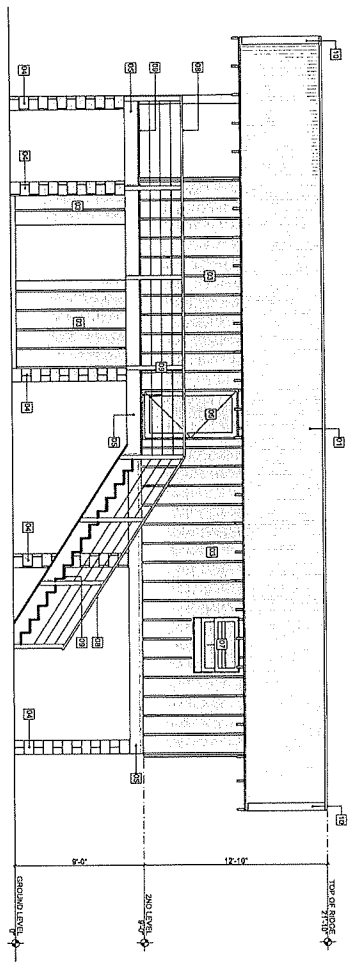
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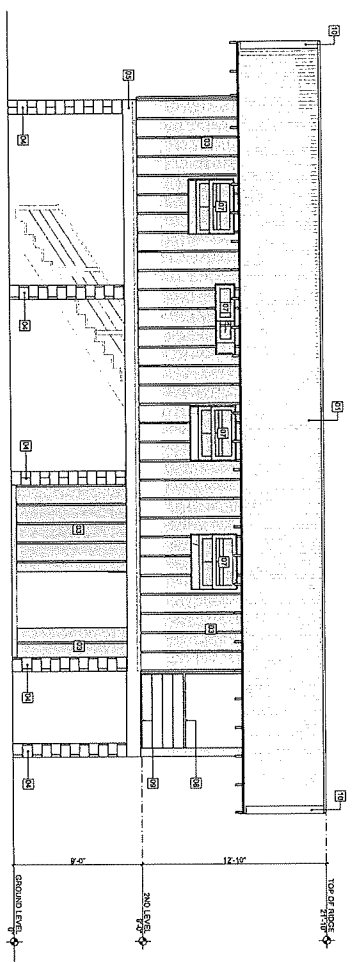
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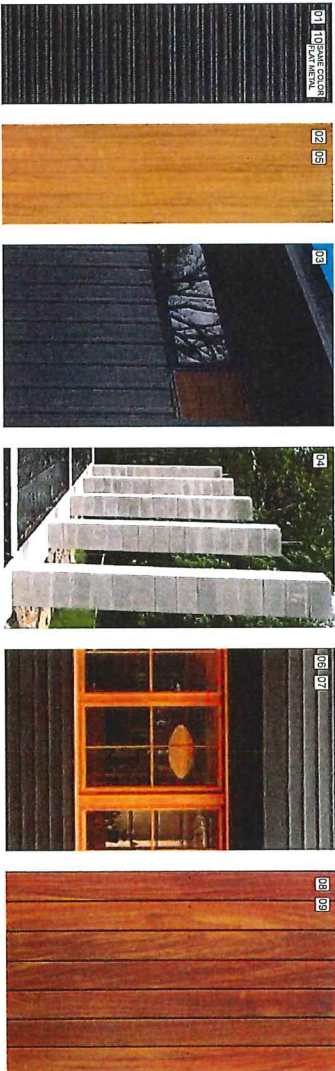
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SCALE 1/4" = 1'-0"





ELEVATION AND SECTION KEYNOTES

- 01 CORRUGATED METAL ROOF (COLOR - DARK GREY)
- 02 STRUCTURAL WOOD (COLOR - NATURAL WOOD)
- 03 BOARD AND BATTEN SIDING (COLOR - DARK GREY)
- 04 STRUCTURAL CMU COLUMN (COLOR - NATURAL WOOD)
- 05 BELLY BAND (COLOR - NATURAL WOOD)
- 06 DOORS (COLOR - NATURAL WOOD)
- 07 WINDOWS (COLOR - NATURAL WOOD)
- 08 DECK RAILING (COLOR - NATURAL IPE)
- 09 DECKING (COLOR - NATURAL IPE)
- 10 METAL ROOF FLASHING (COLOR - DARK GREY)



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EXHIBIT "F-1"

Kikiaola Coastal Assessment

Kekaha, Kaua'i

January 2023



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1. INTRODUCTION

1.1 Background

The subject properties, Tax Map Keys (4) 1-2-013:039 and 040, are located along Kaumuali'i Highway (State Highway 50) in Kekaha on the Island of Kaua'i (Figure 1-1). The two parcels make up 2.28 acres of undeveloped land. Prior to making plans for development on the shoreline parcels, this coastal assessment provides baseline information that can be used for planning and decision making on how to best use the land.



Figure 1-1: Overview of project area on the Island of Kaua'i (Google Earth, 2022).

1.2 Purpose

This Coastal Assessment is a key step for understanding the physical conditions and coastal hazards at the subject properties. Understanding the projected future coastal hazards is critical for evaluating potential future development. This Coastal Assessment presents the data collected and analysis completed for the shoreline area and discusses the existing conditions in terms of hazard mitigation.

2. PHYSICAL SETTING

2.1 Regional Setting

The island of Kauaʻi, the northernmost major island in the Hawaiian chain, is fourth in size with a total area of 620 square miles¹. The island is roughly circular in shape, with a coastal plain along most of the coast except for the rugged Na Pali cliffs on the northwest shore. The project site is within the town of Kekaha on the southwest coast of Kauaʻi (Figure 2-1). Kekaha is located on a drained wetland and was founded as a plantation town. Groundwater in the areas surrounding Kekaha is currently pumped to keep the area dry. Today, Kekaha's town center is dotted with a post office, small commercial uses, schools, and inactive shop fronts lacking multimodal infrastructure. There is no wastewater infrastructure in Kekaha, so residences and businesses rely on individual wastewater treatment systems. Kaumualii Highway (State Highway 50), which runs adjacent to the project area, provides the only access. East of the project area is the Park Hook Tong Chinese Cemetery, Waimea Japanese Cemetery, and the Kikiaola Small Boat Harbor with four moorings, a loading dock, boat ramp, picnic area, washdown station, and public restrooms. Drone aerial images of the project area show kiawe trees, a paved driveway, murky nearshore conditions, and an erosion scarp along the seaward edge of the lots (Figure 2-2 through Figure 2-5).

The project area is within the Special Management Area, regulated by the County Department of Planning. The shoreline seaward of the certified shoreline is in the Conservation District regulated by the State Office of Conservation and Coastal Lands. The Kauaʻi Sea Level Rise Constraint District encompasses the entire project area and is regulated by the County of Kauaʻi Department of Planning. The project area is located in the Kona Moku and the Waimea Ahupuaʻa.



Figure 2-1: Vicinity map near the project site (Google Earth, 2022).

¹ 2021 State of Hawaii Data Book

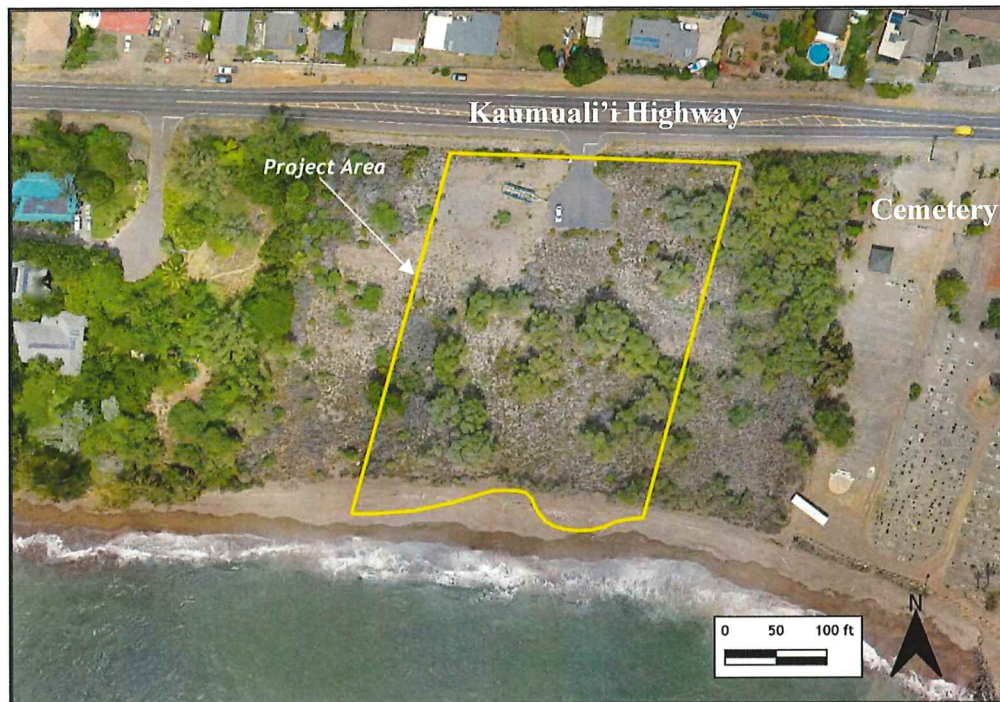


Figure 2-2: Location map, with outer boundary of the tax map key parcels outlined in yellow (Drone orthomosaic, 09/27/2022).



Figure 2-3: Oblique aerial view of the project area, facing northeast (09/27/2022).



Figure 2-4: Oblique aerial view of the project area, facing southeast (09/27/2022).



Figure 2-5: Oblique aerial view of the project area, facing north (09/27/2022).

2.1 Shoreline Description

The shoreline fronting the project site is 312 feet long backed by a beach berm (Figure 2-6). The scarp on the seaward edge of the berm is 2 to 4 feet tall (Figure 2-7). Nearshore waters are typically turbid with strong wave-generated alongshore currents. The coastal waters are designated as Class “A” according to the State of Hawai‘i Water Quality Classification Standards. Turbidity in the area tends to be characteristically high due to runoff from the Waimea River and high wave action and is monitored by the Clean Water Branch (Figure 2-8). High turbidity was confirmed by observations in September 2022. A nearshore reconnaissance found the bottom to be sparsely covered with patches of algae. The nearshore is classified by the U.S. Fish & Wildlife Service as an M2USP estuarine and marine wetland that is intertidal and irregularly flooded.

Vegetation on the lots consists primarily of kiawe, beach heliotrope, and beach wiregrass (Figure 2-9). Kiawe is categorized by the State of Hawai‘i as an invasive noxious weed². Thorns on kiawe grow up to 4 inches long that can pierce through shoes and vehicle tires. The thorns have poison-tipped ends that can cause bruises and swelling. The endangered Awiwi, Carter’s Panicgrass, Dwarf Naupaka, Ihi, Lau ‘ehu, ‘Ōhai, Pōpolo, and ‘u’uka’a may also exist within the study region³.

Birds observed include the red junglefowl, spotted dove, zebra dove, great frigatebird, brown booby, cattle egret, warbling white-eye, common myna, African silverbill, scaly-breasted munia, house sparrow, house finch, northern cardinal, red-crested cardinal, saffron finch, and pacific golden plover. The endangered band-rumped storm petrel, Hawaiian duck, Hawaiian common gallinule, Hawaiian coot, Hawaiian petrel, Hawaiian stilt, and short-tailed albatross may occur within the study area. The threatened Hawaiian goose, Newell’s Townsend’s shearwater, Hawaiian hoary bat, and green sea turtle may also occur. No designated critical habitats are within the study area.

Beach widths east of the nearby Kikiaola Small Boat Harbor are much larger than those on the west side. Since the Kikiaola boat harbor was built in 1959, there has been downdrift erosion along the shoreline fronting the subject properties. The updrift (east) side of the harbor has prograded over 100 meters seaward while the shoreline down drift (west) of the harbor has retreated over 60 meters losing about 50% of its sand volume. United States Army Corps of Engineers investigations identified the littoral impacts of the Boat Harbor to the down-drift shoreline as 3,000 to 6,000 cubic yards of sand per year (SEI and Group 70, 2008).

In 2014, in order to replenish Kikiaola Beach fronting the subject properties on the downdrift side of the Harbor, 45,000 cubic meters of sand was moved, by excavator and truck from Waimea Beach east of the harbor to the 0.3 km portion of Kikiaola Beach immediately west of the harbor (Figure 2-10, Figure 2-11). Monitoring found that the sand excavation sites on the updrift side regained their morphology, but have not regained sand volume (Molina, 2019). It took 65 years for the updrift beach to build up, via alongshore sediment transport, so it is likely

² DLNR Hawai‘i Invasive Species Council

³ USFWS Information for Planning and Consulting

that it will take many years to build up once again. Over 2014-2016, the sand placement area maintained a moderate degree of stability; however, since that time it has begun to display erosion of the bypass sand pile (Molina, 2019). The 0.5 km portion of Kikiaola Beach west of the sand placement area displayed only minor fluctuation in beach character, suggesting a lack of impact of the replenishment program on the beach's down drift portion more than two years following the bypass operation.

There seems to be no sediment exchange between Kikiaola Beach and Kekaha Beach due to the rocky headland at Oomano Point west of the project area. This is evidenced by the distinct sand characteristics on either side of the point: terrigenous sediment to the east and calcareous sediment to the west.

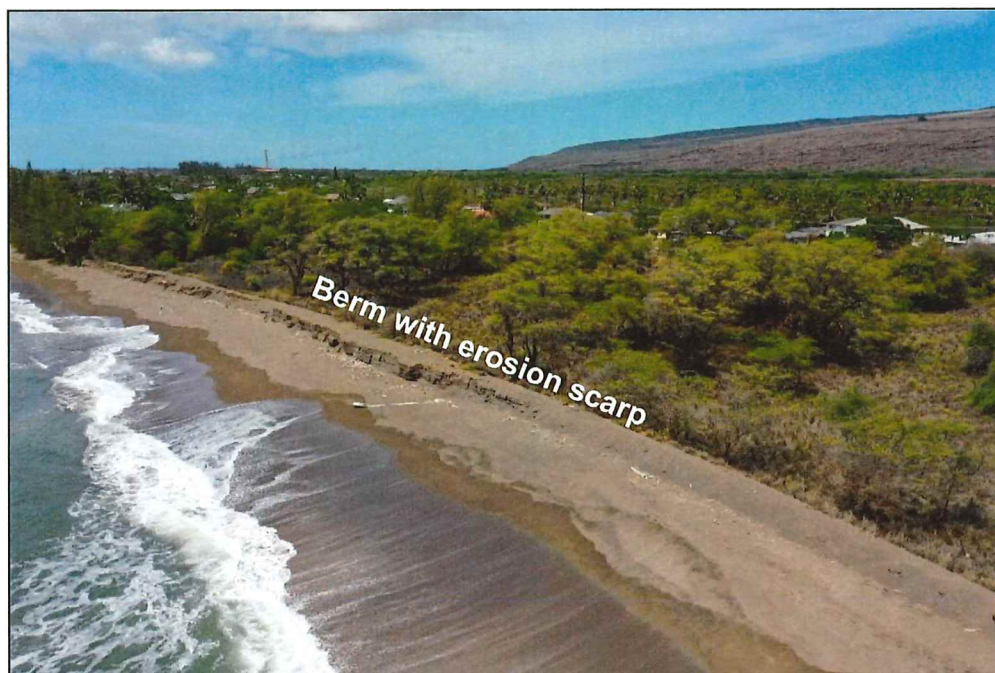


Figure 2-6: Shoreline fronting the project site backed by a berm with an erosion scarp (09/27/2022)



Figure 2-7: Berm fronting the study area with an erosion scarp along the seaward edge

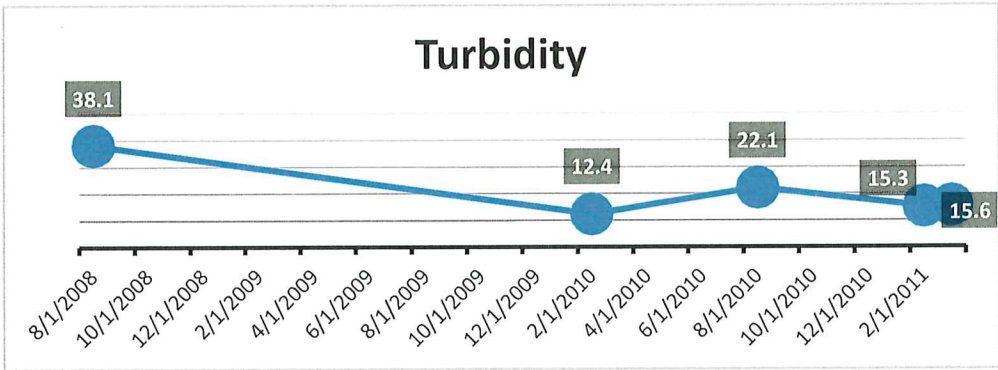


Figure 2-8: Turbidity water quality monitoring fronting cemetery (Clean Water Branch).

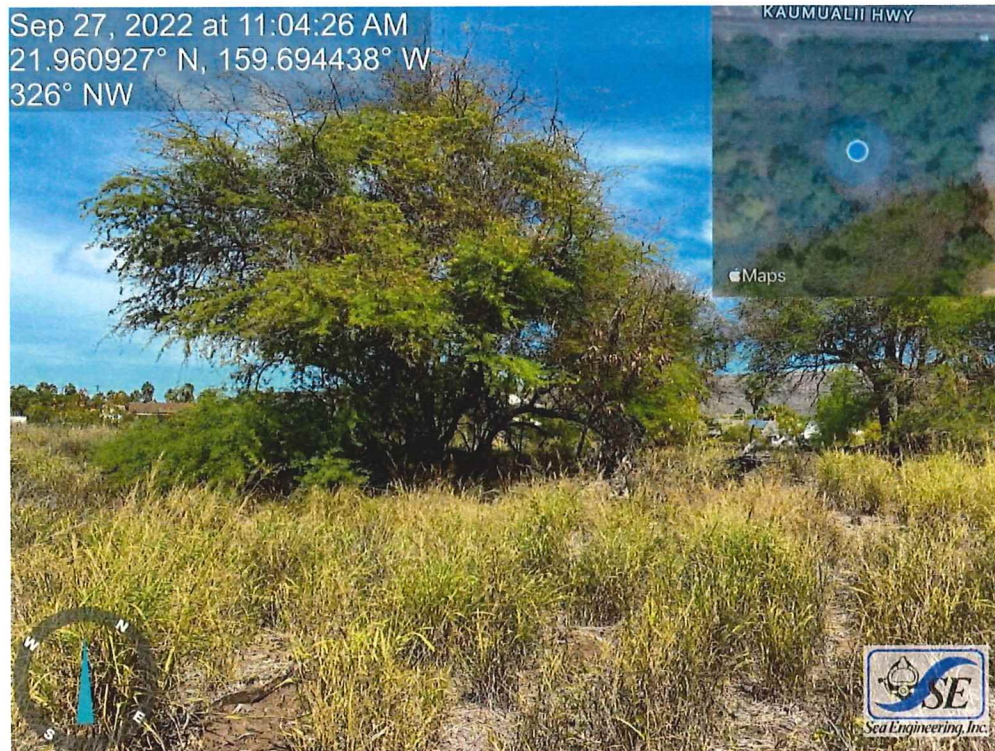


Figure 2-9: Representative vegetation within the study area

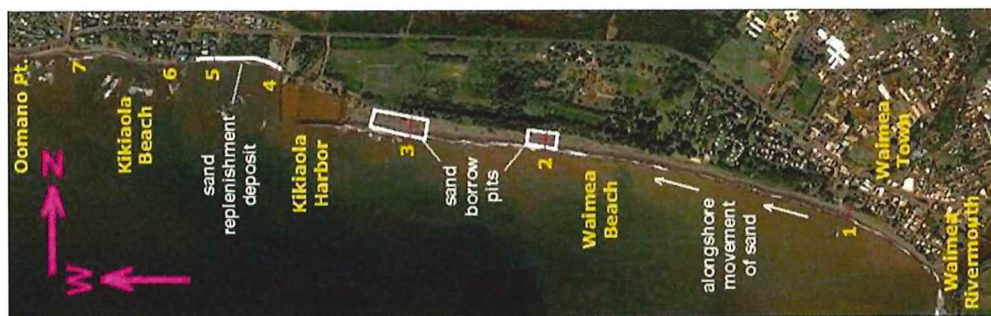


Figure 2-10: 2014 Sand bypass project moving sand from (2) and (3) to (4) and (5).



Figure 2-11: 2014 Sand placed in front of the project area.

2.2 Geology and Soils

The Kekaha area is the most arid portion of Kaua'i receiving on average 19.4 inches of rainfall each year⁴. Nearly all of the streams that drain the mountains of Waimea have been channelized and redirected toward Waimea town by the Waimea and Kekaha irrigation ditches. The soils within the project area are characterized by the USDA as Jacus loamy fine sand (Figure 2-12, USDA, 2019). Loamy fine sand is 50% or more of fine sand or less than 25% very coarse, coarse, and medium sand plus less than 50% very fine sand. Along the seaward edge of the parcels is a beach backed by a berm (Figure 2-13).

On September 27, 2022, a sand sample from the shoreline berm was collected (Figure 2-14). The sample was sent to a lab for a grain size analysis using mechanical analysis and standard sieves. The gradation curve for the grain size distribution is shown in Figure 2-15. The medium grain-size diameter was 0.25 mm. The sand, with a uniformity coefficient of 2.37, can be described as poorly graded, medium grain, volcanoclastic beach sand with detrital content. The sediment was found to have 3.8% fines (defined as the #200 sieve, 0.074 mm), 0.1% coarse sediment (defined as the #4 sieve, 4.76 mm), and 18% of its mass less than the 0.149 mm (#100) sieve.

⁴ 2021 Hawai'i Data Book

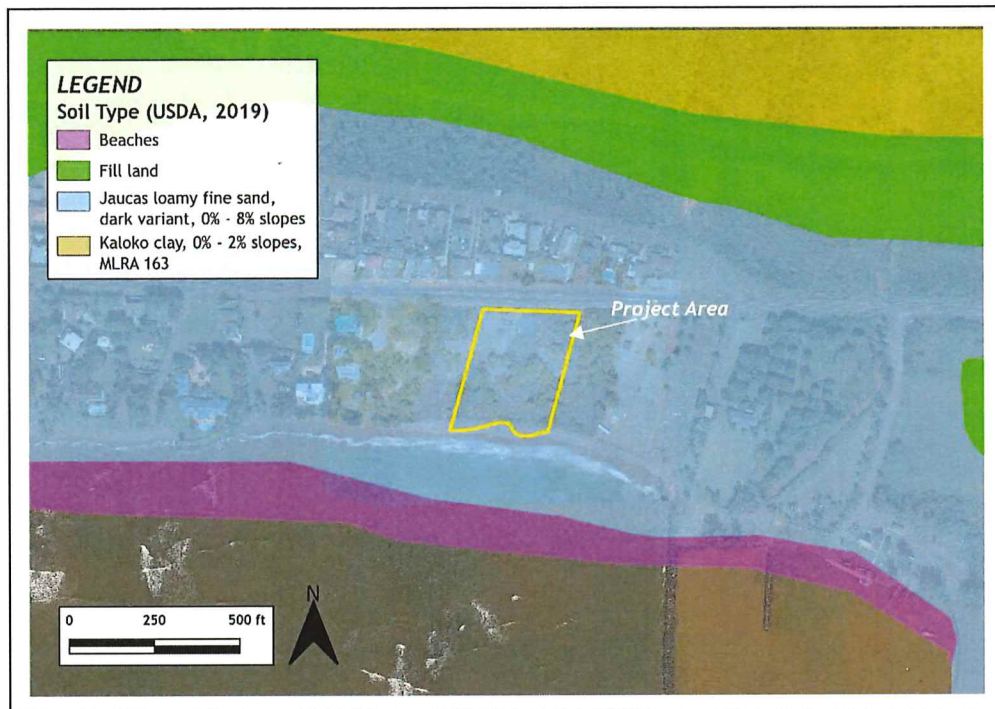


Figure 2-12: Soils type classifications in the project site vicinity



Figure 2-13: Sand at the top of the berm facing landward (09/27/2022)



Figure 2-14: Sand sample collected from the base of the berm in the center of the study area (09/27/2022)

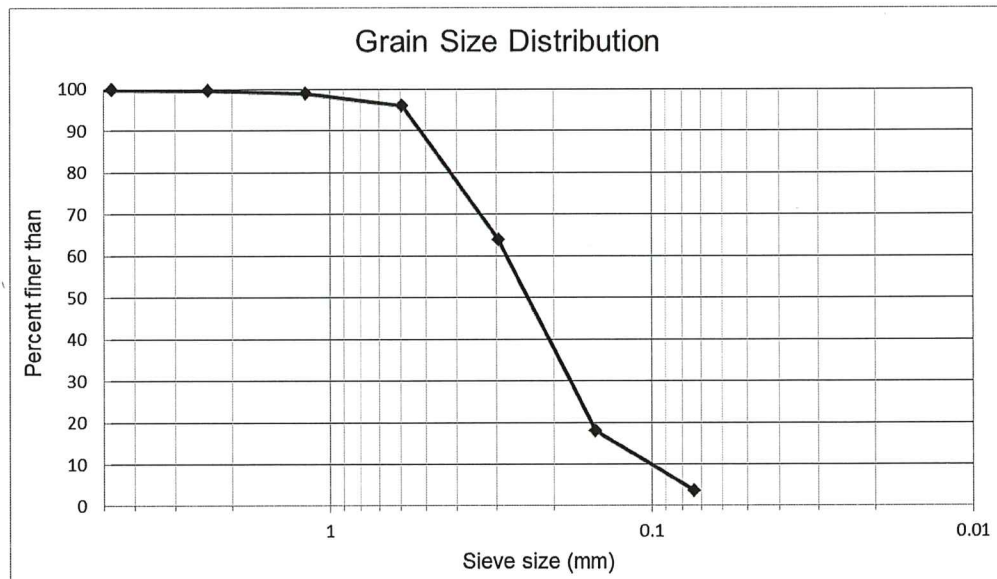


Figure 2-15: Grain size analysis results for sediment sample taken from the berm fronting the project area.

2.3 Topography

At the time of the site visit, the beach fronting the project site rises from the beach toe to a berm with an average slope of about 1 on 7 and an average width of 55 feet. The berm is made of compacted sand with a scarp along the face where waves eat away at the sand supply. Beach users standing on the top of the scarp also promote collapse of the materials. The top of the berm is at approximately +15 Mean Lower Low Water. The back of the berm contains some wind-blown sand and declines with a slope of about 1 on 3 to +9. A swale behind the berm would likely act as a natural drainage basin during heavy rains. Landward, the elevations rise again to +16.5 feet and then decline to +10.5 feet at the roadway (Figure 2-16). The proposed structures would be placed landward of the swale on the high topography at +15.



Figure 2-16: Topography of the study area

3. OCEANOGRAPHIC SETTING

The project area's beach is a 312-foot portion of a 1.5-mile sandy shoreline just west of the Kikiaola boat ramp. The location of the beach makes it highly exposed to waves from the southerly direction. A shelf parallels the coast extending approximately 2,800 feet (0.5 miles) offshore with depths up to 25 feet. The shallow depth of the shelf dissipates some of the offshore wave energy and directs the incoming wave angle that controls the orientation of the sandy beach. Water depths along the nearshore of the project area range from 0 to 10 feet (Figure 3-1). The seafloor is characterized by 50-90% turf algae on boulder/rocks (NCCOS, 2007).

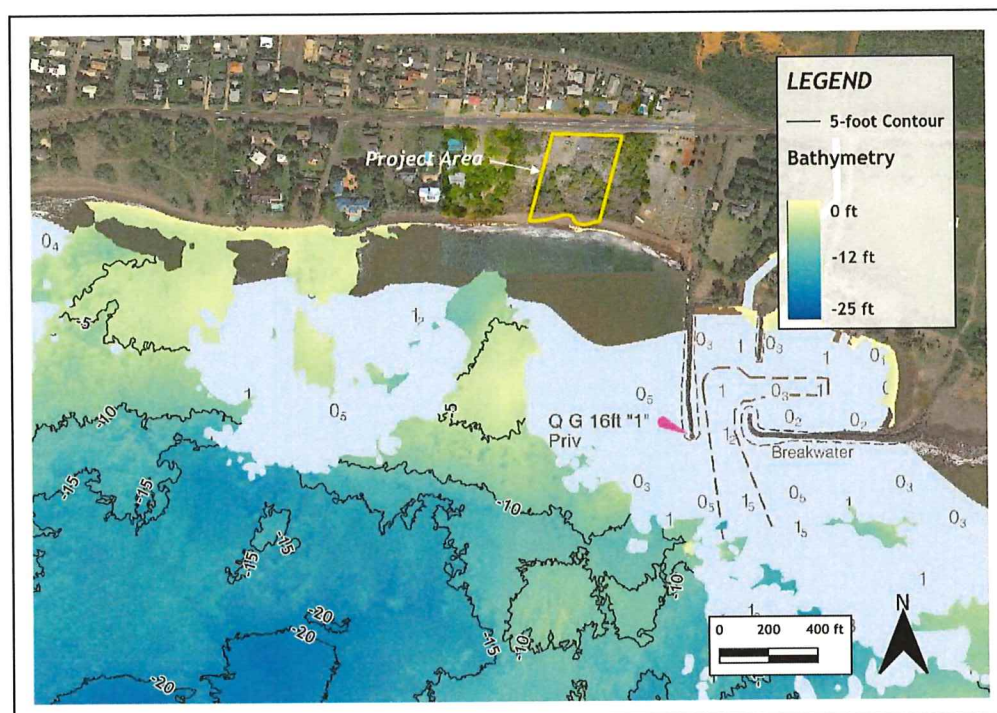


Figure 3-1: Bathymetry offshore near project site in Kikiaola.

3.1 Currents

Local currents in the Hawaiian Islands are generally driven by the semi-diurnal tides, wind, and breaking waves. The predominant current can differ between the nearshore (inside the wave breaker zone) and the offshore. Offshore surface currents are a combination of geostrophic and wind-driven Ekman flow. Large-scale currents north and south of Kaua'i, the North Hawaiian Ridge Current and Hawai'i Lee current respectively, flow from the southeast to the northwest (Figure 3-2). When the tide is rising, the current generally moves westward with an approximately 3-hour lag between peak tide and maximum tidal current speed. When the tide falls it generally moves eastward. Tidal currents result from tidal variations of sea level, and nearshore are often stronger than the large-scale circulation. During high surf a strong west-moving alongshore current develops landward of the surf zone in Kekaha. When tides are large, the top of the beach that is normally dry during calm wave conditions can become submerged (Figure 3-3).

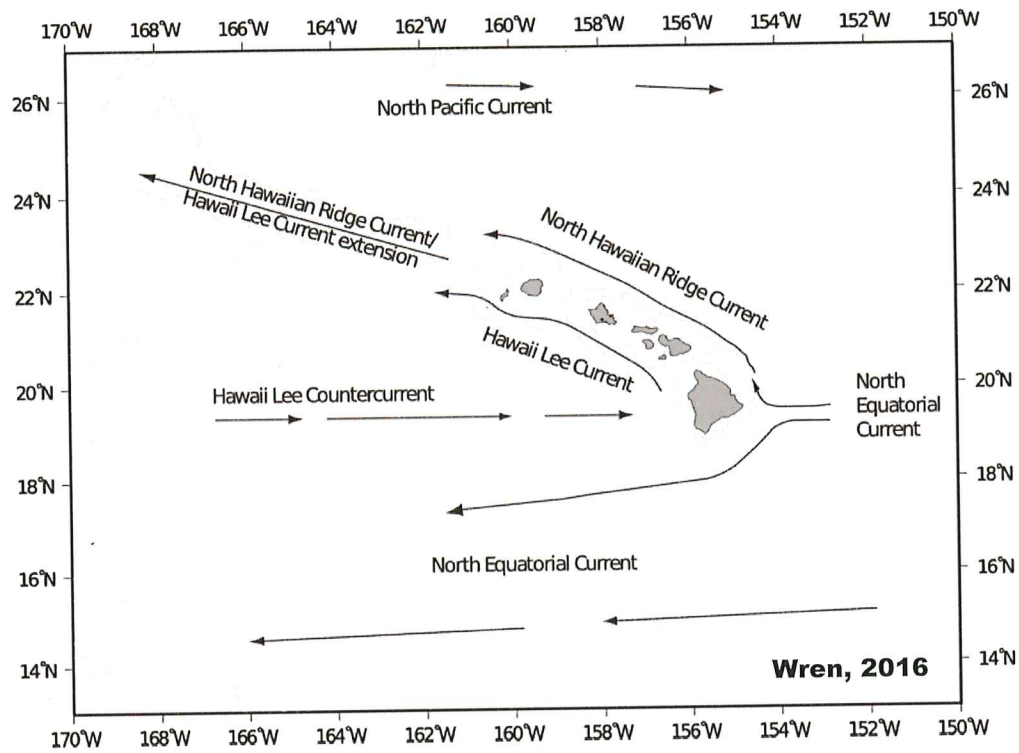


Figure 3-2 Surface currents around the Main Hawaiian Islands

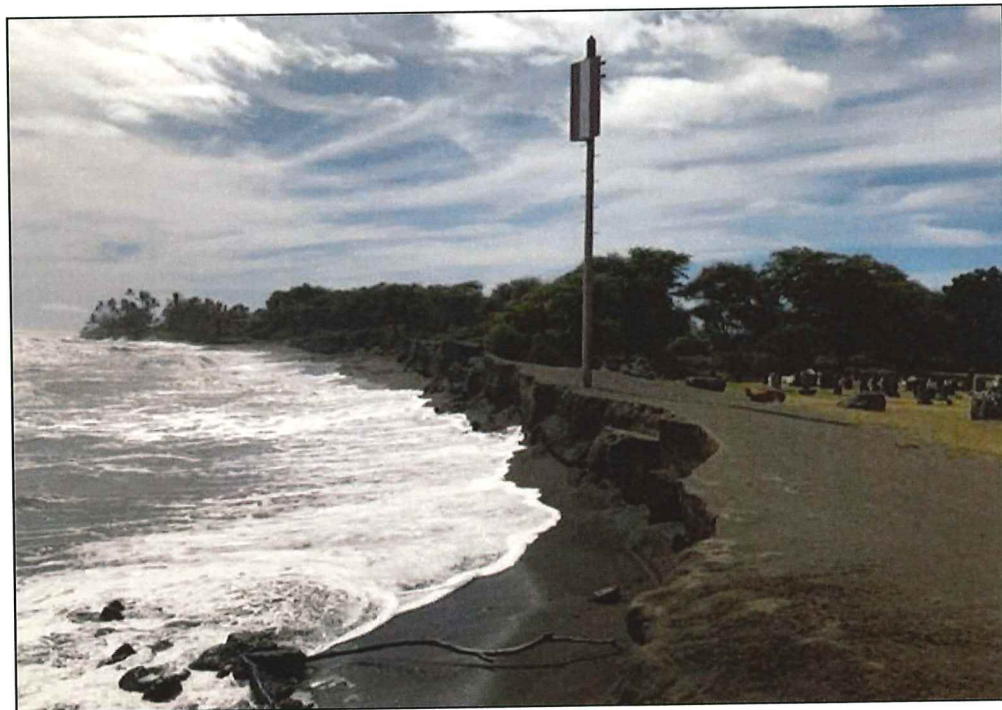


Figure 3-3 High tide west of Kikiaola Harbor (08/10/2018, WKCVA, 2020)

3.2 Waves

The wave climate in Hawai'i is dominated by long-period swell generated by distant storm systems; by relatively low amplitude, short period waves generated by local winds; and the occasional bursts of energy associated with intense local storms. Typically, Hawai'i receives four general wave types: 1) northeast tradewind waves, 2) southern swell, 3) North Pacific swell, and 4) Kona wind waves. The dominant swell regimes for Kaua'i Island are shown in Figure 3-4. A wave rose distribution of wave heights and directions near the project site is given in Figure 3-5.

As waves reach shallow nearshore waters, they shoal, increase in amplitude, and eventually break (Rapaport, 2013). Short period trade wind swell generates waves with short wavelengths and in turn relatively small wave heights. Large surf is produced by the long period swell from distant storms because of the correspondingly longer wavelengths. The north shores of the Hawaiian Islands receive this long period swell in the northern hemisphere winter and the south shores in the southern hemisphere winter. Tropical storms and hurricanes also generate waves that can approach the islands from virtually any direction. Unlike winds, all these wave conditions may occur at the same time.

Northeast trade waves, which are generated by the prevailing trade winds, are present throughout the year. These waves usually have periods ranging from 6 to 12 seconds and heights ranging from 4 to 12 feet, and approach most frequently from the northeast and east. These waves refract and diffract around the southeastern and northwestern ends of the island. The Island of Kaua'i itself and Kikiaola Harbor shelter the project area from northeast trade swell.

Southern swells are generated during the winter season in the southern hemisphere (the summer months of April through November in the Hawaiian Islands). These long, low waves have periods ranging from 14 to 22 seconds and heights ranging from 1 to 4 feet.

North Pacific swells are waves produced by storms in the Aleutian area and by mid-latitude lows and may arrive in the Hawaiian Islands throughout the year; however, they are the largest and most numerous from October through March. Waves approach from the northwest, north, or northeast and typically have periods of about 10 to 15 seconds and heights from 8 to 14 feet. These waves refract around the west end of Kaua'i and approach the study area from the northwest.

Kona waves are generated by intense winds associated with local fronts or Hawaiian lows. Kona waves have periods of 6 to 10 seconds and heights ranging from 10 to 15 feet. These waves may approach the island of Kaua'i from any direction between the southeast and the west.

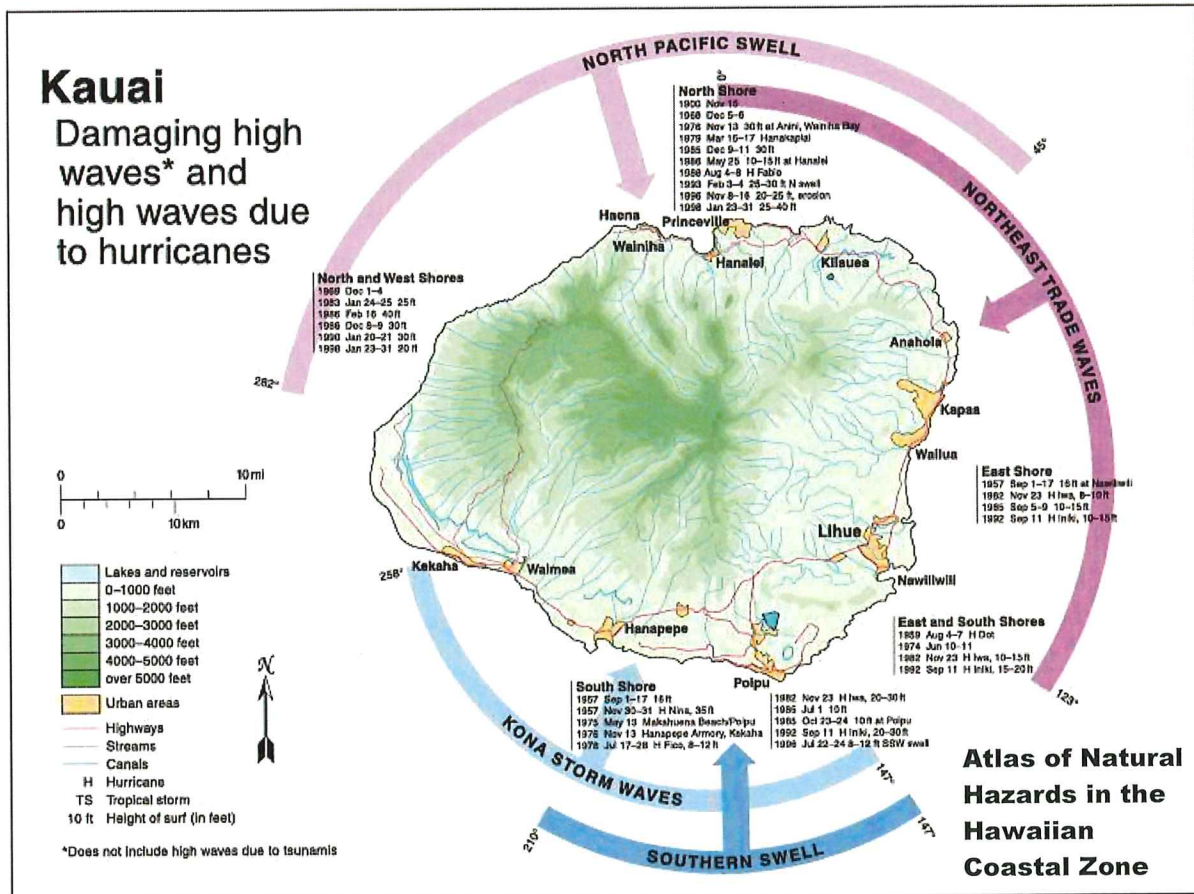


Figure 3-4 Kaua'i island dominant swell regimes

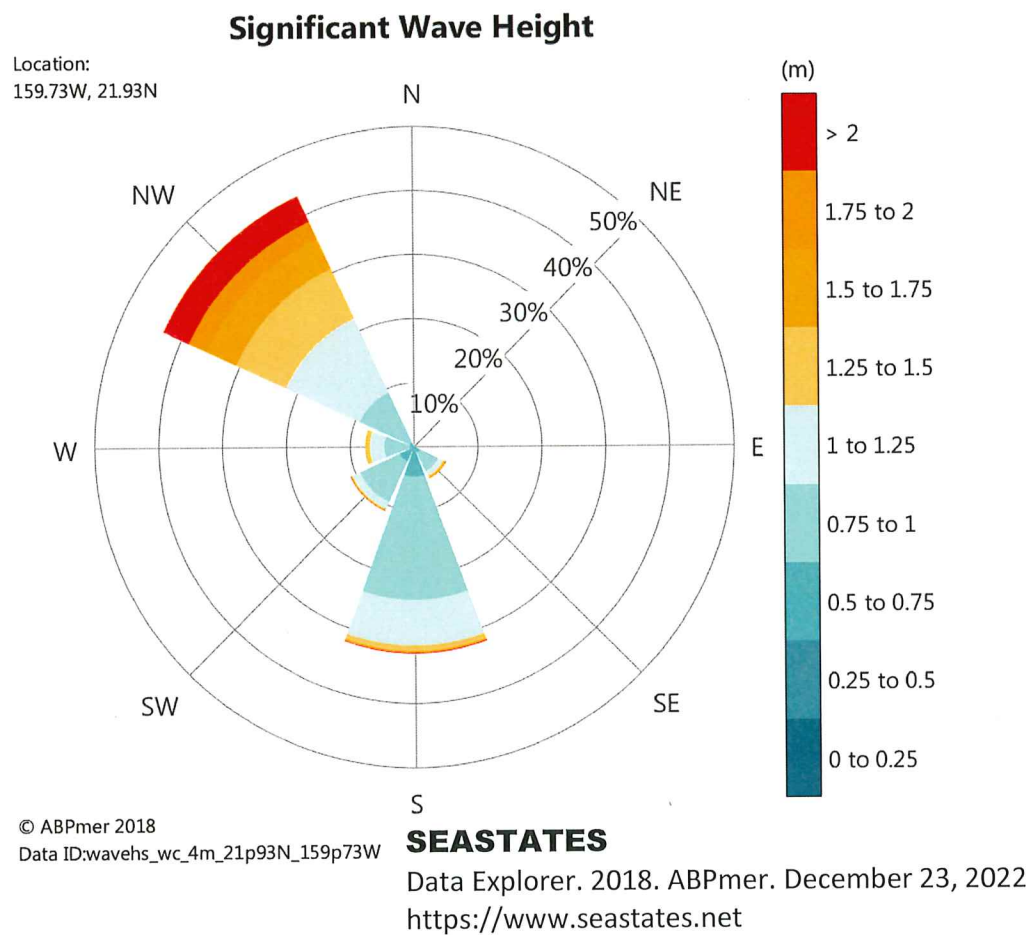


Figure 3-5 Significant wave height rose 3.16 miles SW of the project area

4. COASTAL HAZARDS ANALYSIS

A coastal hazard analysis includes an examination of relevant coastal processes, such as seasonal wave patterns, historic damaging high waves, high winds and water levels, vulnerability to tsunamis. This will also include a discussion on sea-level rise with current projections for the central Pacific.

4.1 Kona Storms and Tropical Cyclones

The Hawaiian Islands are annually exposed to severe storms and storm waves generated by passing low-pressure systems (Kona storms) and tropical cyclonic storms (hurricanes). Kona storms occur when the winter low-pressure systems that travel across the North Pacific Ocean dip south and approach the islands. Strong southerly and southwesterly winds generated by these storms result in large waves on exposed shorelines, and often heavy rains. Kona storms typically generate waves with significant wave heights of 10 to 18 feet and periods of 7 to 12 seconds.

Hurricanes, the worst-case tropical cyclones, are caused by intense low-pressure vortices that are usually created in the eastern tropical Pacific Ocean and travel westward. While they typically pass south of the Hawaiian Islands, their paths are unpredictable, and they will occasionally pass near or over the islands. A total of nine (9) hurricanes have caused damage on Kaua'i. Hurricane Iwa (1982) and Hurricane Iniki (1992) directly hit the island and resulted in large damaging waves (20-30 feet) along the southern and eastern shores of Kaua'i. Wind gusts during Hurricane Iniki at Port Allen, just nine (9) miles southeast of the project site, reached 143 mph.

4.2 Tsunami

Tsunami are waves that result from large-scale displacements of the seafloor. They are most commonly caused by large magnitude earthquakes (typically magnitude 7.0 or greater). If the earthquake involves a large segment of land that displaces a large volume of water, the water will travel outwards in a series of waves, each of which extends from the ocean surface to the seafloor where the earthquake originated. Tsunami waves typically have small wave heights in deep water but can have wavelengths of hundreds of miles and travel at speeds up to 500 miles per hour. A tsunami can travel from one side of the Pacific to the other in less than a day. The speed decreases rapidly as the water shoals (becomes shallower) approaching land and the waves greatly increase in height as they shoal and can push inland. The water then recedes, also at considerable speed, and the recession often causes as much damage as the original wave front itself.

Most tsunamis in Hawai'i originate from the tectonically active areas located around the Pacific Rim (e.g., Alaska, Japan, and Chile). Waves created by earthquakes in these areas take hours to reach Hawai'i, and the network of sensors that is part of the Pacific Tsunami Warning System can provide Hawai'i with several hours of warning before the arrival of tsunami waves generated from these locations. Less commonly, tsunamis originate from seismic activity in the Hawaiian Islands themselves, and there is limited advance warning for these locally generated events.

The recorded history of Hawaiian tsunamis shows that 26 large tsunamis have made landfall within the islands and eight have had significant damaging effects on Kaua'i. The last of these damaging tsunamis occurred in 1964 (U.S. Geological Survey, 2002). The highest recorded tsunami wave runups observed at the shoreline near the project area are shown in Table 4-1. The U.S. Geological Survey (Fletcher et al., 2002) has given the project area a high tsunami hazard rating where the coastal slopes are low (Figure 4-1).

The project site is located in the tsunami evacuation area and is directly exposed to tsunami waves traveling anywhere from the south to west of the project site. The project area is also affected by northeastern traveling tsunami waves, as wrap-around effects (refraction) of tsunami waves around the southern point of Kaua'i result in wave impact (i.e., tsunami wave runup occurring in the 1960 Central Chilean source event). Given these considerations, the project area is deemed to be vulnerable to tsunami hazards.

Table 4-1: Tsunami events wave runup elevation in the project vicinity.

Tsunami Event	Source Location	Wave runup elevation (feet)
1946	Aleutian Islands, Alaska	8
1957	Aleutian Islands, Alaska	7
1960	Chile	10

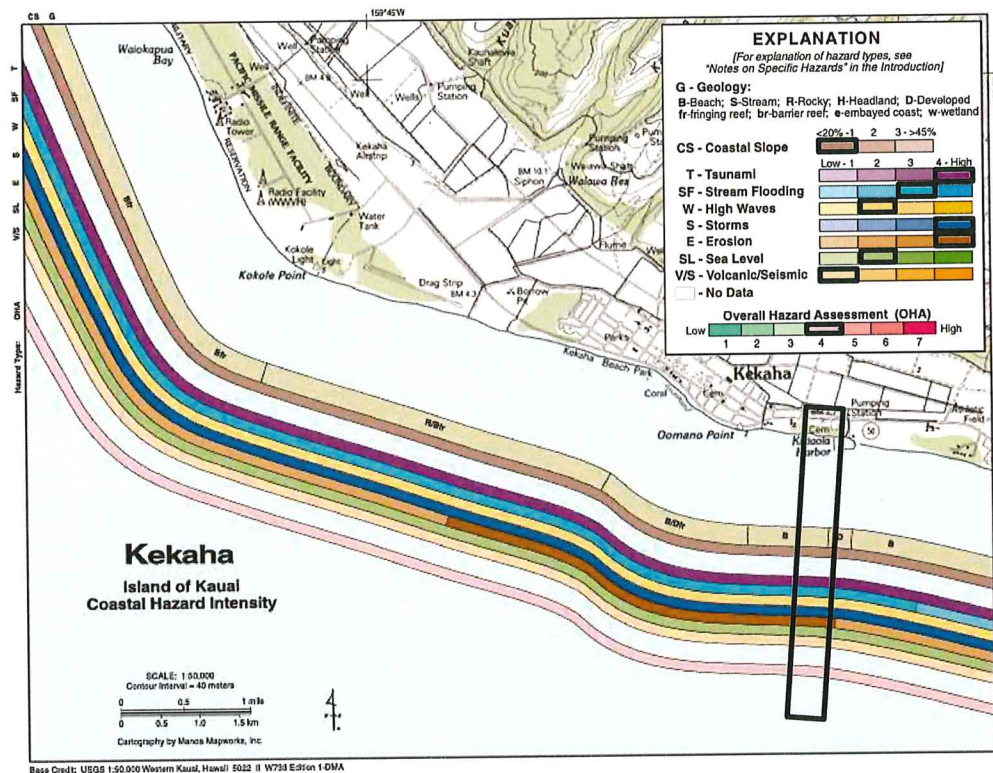


Figure 4-1 Composite hazard map with the project area shown in black

4.3 Sea Level Rise

Sea level is the average height of the entire ocean surface. Global mean sea level rise (SLR) is primarily driven by the additional water generated from melting land-based ice sheets and glaciers and the expansion of seawater as it warms. The present rate of global mean SLR is +3.1 millimeters per year (mm/yr) (Sweet, 2022, Figure 4-2). SLR appears to be accelerating compared to the mean of the 20th Century. Regional effects cause sea levels to increase in some parts of the planet while decreasing or remaining relatively stable in other areas.

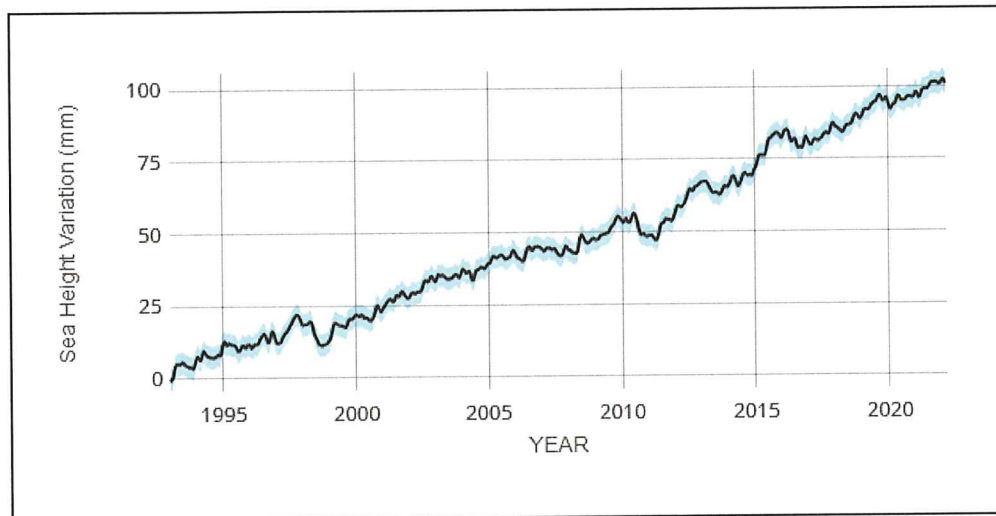


Figure 4-2 Global satellite sea level variation data (1993 to 2022)

SLR is negatively impacting beaches and shorelines in Hawai‘i. Impacts include beach narrowing and beach loss, loss of land due to erosion, and infrastructure damage due to inundation and flooding. Anderson et.al. (2015) found that, due to increasing SLR, the average shoreline recession (erosion) in Hawai‘i is expected to be nearly twice the historical extrapolation by the year 2050, and nearly 2.5 times the historical extrapolation by the year 2100. The impacts from anomalous sea level events (e.g., king tides, mesoscale eddies, storm surges) are also likely to increase.

Sweet et.al. (2017 and 2022) identify specific regions that are susceptible to a greater-than-average rise in sea level. Hawai‘i thus far has seen a rate of SLR (+1.55 mm/yr) less than the global average (+3.1 mm/year); however, this is expected to change in the future as Hawai‘i is in the “far-field” of the effects of melting land ice. This means that those effects have been significantly less in Hawai‘i compared to areas nearer to the ice melt. Over the next few decades, these effects will spread to Hawai‘i, which is then projected to experience a SLR greater than the global average.

The Intergovernmental Panel on Climate Change (IPCC) is the United Nations body for assessing the science related to climate change. The IPCC was created to provide policymakers with periodic scientific assessments on climate change, its implications, and potential future risks. As part of this effort, the IPCC surveys and distills the scientific literature and provides consensus projections on future sea levels across the globe under a range of possible future

scenarios. Five Shared Socioeconomic Pathways (SSPs) representing future scenarios are described with SLR projections for each. The five scenarios are:

- SSP1-1.9 holds warming to approximately 1.5°C above 1850-1900 in 2100 after a slight overshoot (median) and implies net zero CO₂ emissions around the middle of the century.
- SSP1-2.6 stays below 2.0°C warming relative to 1850-1900 (median) with implied net zero emissions in the second half of the century.
- SSP2-4.5 is approximately in line with the upper end of aggregate Nationally Determined Contribution (NDC) emission levels by 2030. SR1.5 assessed temperature projections for NDCs to be between 2.7 and 3.4°C by 2100, corresponding to the upper half of projected warming under SSP2-4.5. New or updated NDCs by the end of 2020 did not significantly change the emissions projections up to 2030, although more countries adopted 2050 net zero targets in line with SSP1-1.9 or SSP1-2.6. The SSP2-4.5 scenario deviates mildly from a “no-additional-climate-policy” reference scenario, resulting in best-estimate warming of around 2.7°C by the end of the 21st century relative to 1850-1900.
- SSP3-7.0 is a medium to high reference scenario resulting from no additional climate policy under the SSP3 socioeconomic development narrative. SSP3-7.0 has particularly high non-CO₂ emissions, including high aerosol emissions.
- SSP5-8.5 is a high reference scenario with no additional climate policy. Emission levels as high as SSP5-8.5 are not obtained by Integrated Assessment Models under any of the SSPs other than the fossil-fueled SSP5 socioeconomic development pathway.

Estimates of Kaua‘i SLR scenarios based on the IPCC AR6 SSPs, taking into account the far-field effects are presented in Table 4-2 and Figure 4-3 (IPCC, 2022).

In 2017 the Hawai‘i Climate Change Mitigation and Adaptation Commission published the *Hawai‘i Sea Level Rise Vulnerability and Adaptation Report* providing the first state-wide assessment of Hawaii’s vulnerability to SLR and recommendations to reduce our exposure and sensitivity to SLR and increase our adaptive capacity. A key recommendation was that 3.2 feet of SLR should be adopted as a statewide vulnerability zone for planning purposes.

Table 4-2: Kaua‘i sea level rise scenario projections, 83 percentiles.

Scenario (ft)	2020	2030	2040	2050	2060	2070	2080	2090	2100	2150
SSP 1.19	0.31	0.46	0.64	0.89	1.10	1.36	1.60	1.88	2.18	3.44
SSP 1.26	0.29	0.48	0.69	0.95	1.20	1.50	1.80	2.09	2.38	3.97
SSP 2.45	0.28	0.49	0.72	1.02	1.32	1.68	2.08	2.51	3.00	5.22
SSP 3.70	0.28	0.47	0.72	1.07	1.42	1.85	2.34	2.89	3.54	6.43
SSP 5.85	0.31	0.53	0.79	1.15	1.56	2.06	2.61	3.28	4.00	7.33

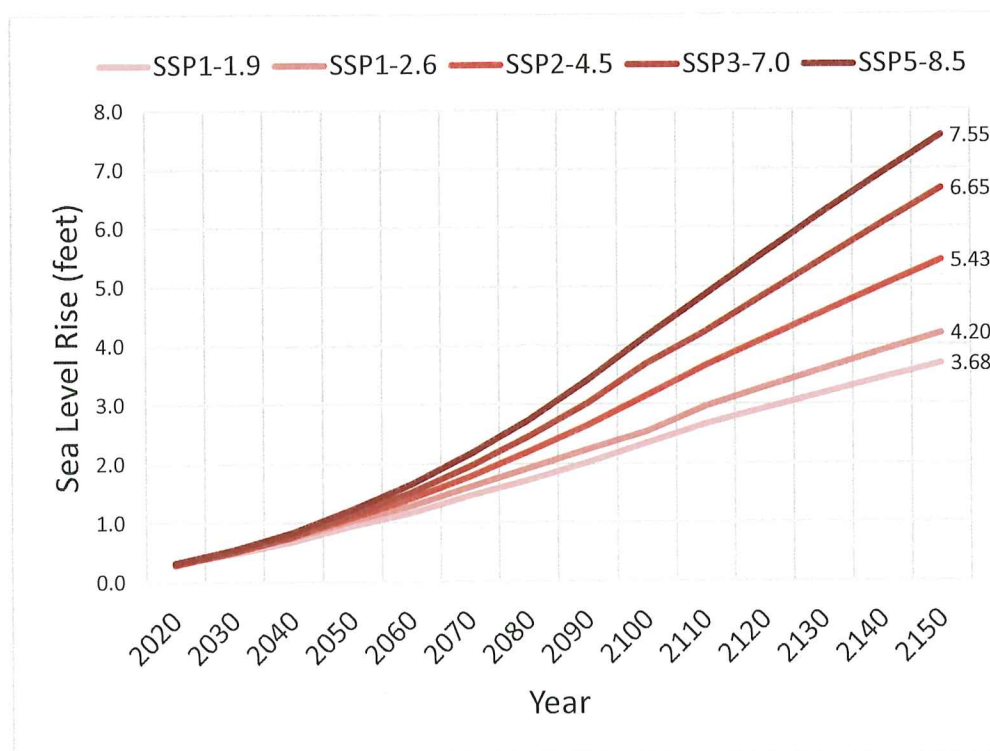


Figure 4-3: Nāwiliwili Bay, Kaua'i sea level rise scenario projections, 83 percentiles.

The University of Hawaii (UH) modeled the potential impacts that a sea level rise of 3.2 feet would have on coastal hazards including:

- Passive flooding: “still water” high tide flooding without consideration of influence from waves or other ocean/atmospheric phenomena;
- Annual high wave flooding: wave overwash landward of the present beach area during the largest wave events of the year; and,
- Coastal erosion: exposure to future land loss from coastal erosion.

The footprint of these three hazards was combined to define the projected extent of chronic flooding due to SLR, referred to as the Sea Level Rise Exposure Area (SLR-XA, Figure 4-5). The passive flooding projection is shown in Figure 4-5. Annual high wave flooding using the University of Hawai'i model is shown in Figure 4-6. Using the long-term shoreline change trend, UH calculates coastal erosion for various SLR projections. At the subject property, the calculation of the exposure area uses shoreline from before and after (1950-2014) the Kikiaola Small Boat Harbor was built (1959) and the sand bypass project occurred giving an inaccurate depiction of the erosion that has occurred and is therefore not shown here. A new coastal erosion analysis is provided in Section 4.5 using updated data.

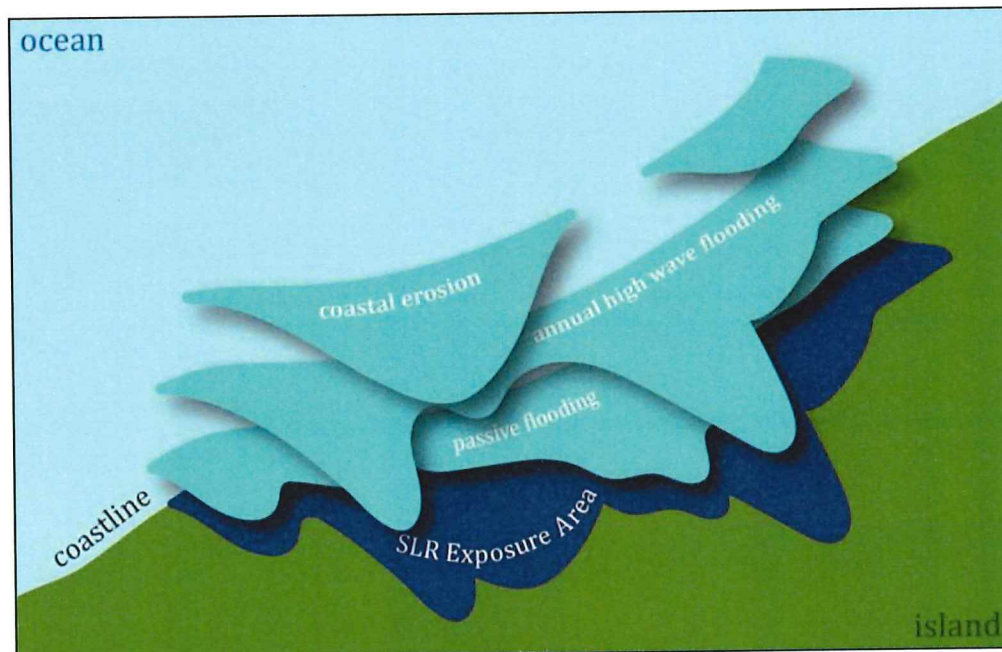


Figure 4-4 Sea level rise exposure as the cumulative impact of passive flooding, annual high wave flooding, and coastal erosion.

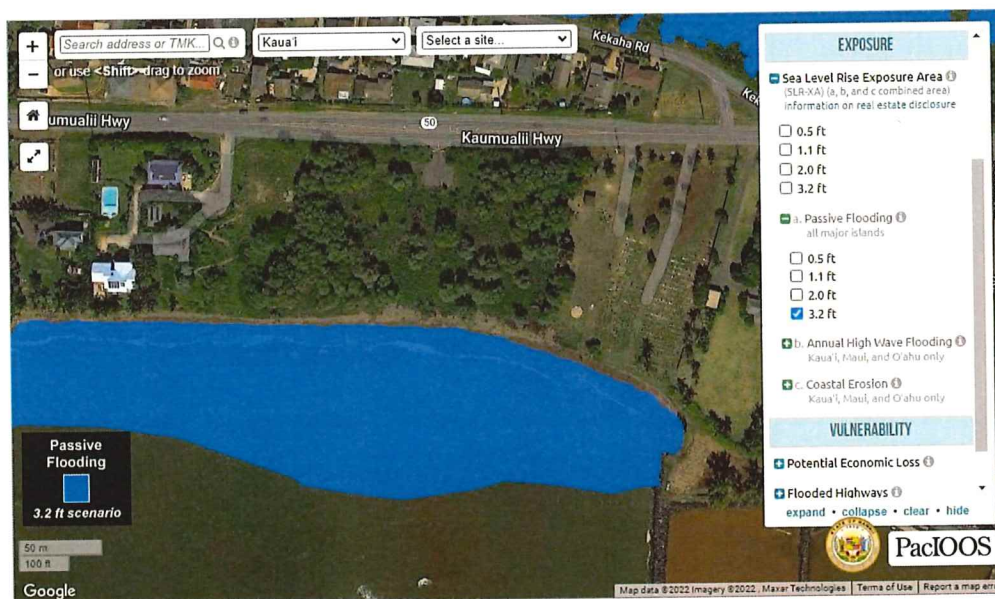


Figure 4-5 Passive flooding with 3.2 feet of sea level rise.

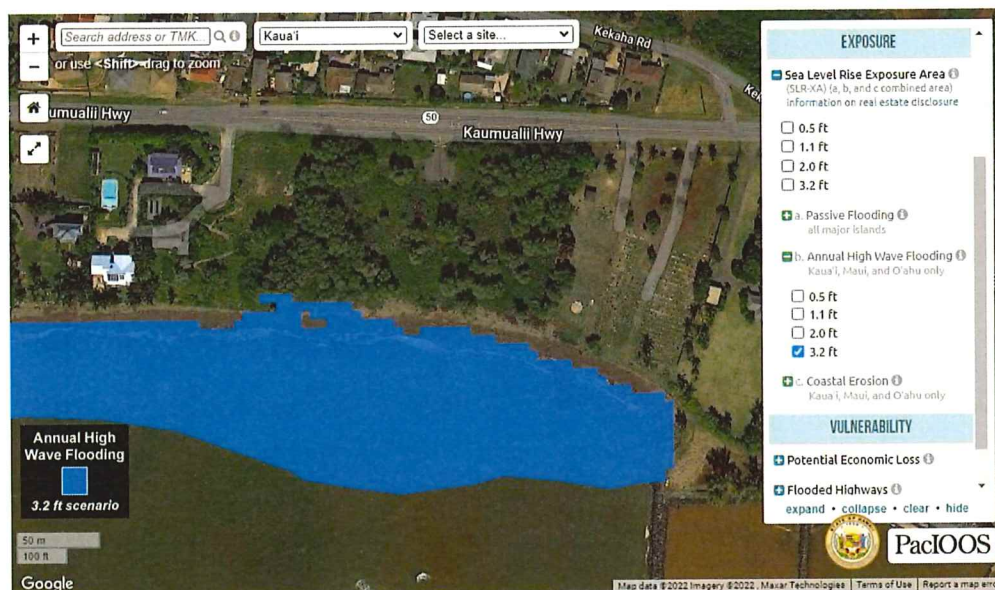


Figure 4-6 Annual high wave flooding with 3.2 feet of sea level rise.

4.4 Coastal Flooding

The UH annual high wave model was developed on an island-scale and has limitations at the parcel level. To improve hazard analysis projections, Sea Engineering (SEI) created a new site-specific high resolution one-dimensional (1-D) XBeach model to view potential coastal flooding caused by the annual wave in addition to +3.2 feet of sea level rise. Both the UH and SEI models use an annually occurring wave height and period that is calculated using offshore wave buoy data (4.2 feet, 16.3 seconds). The deep-water offshore wave transformation is modeled over the nearshore bathymetry of the project site and up onto the beach. The SEI model uses a bathymetry grid with a finer resolution and a transect centered within the study area improving results.

The SEI modeling study found greater flooding in the study area than what is indicated in the coarse UH model (Figure 4-7). The flooding extends inland past the beach with flood depths of 0.5 to 2 feet. Thus virtually the entire property is potentially subject to annual flooding with SLR of 3.2 feet.

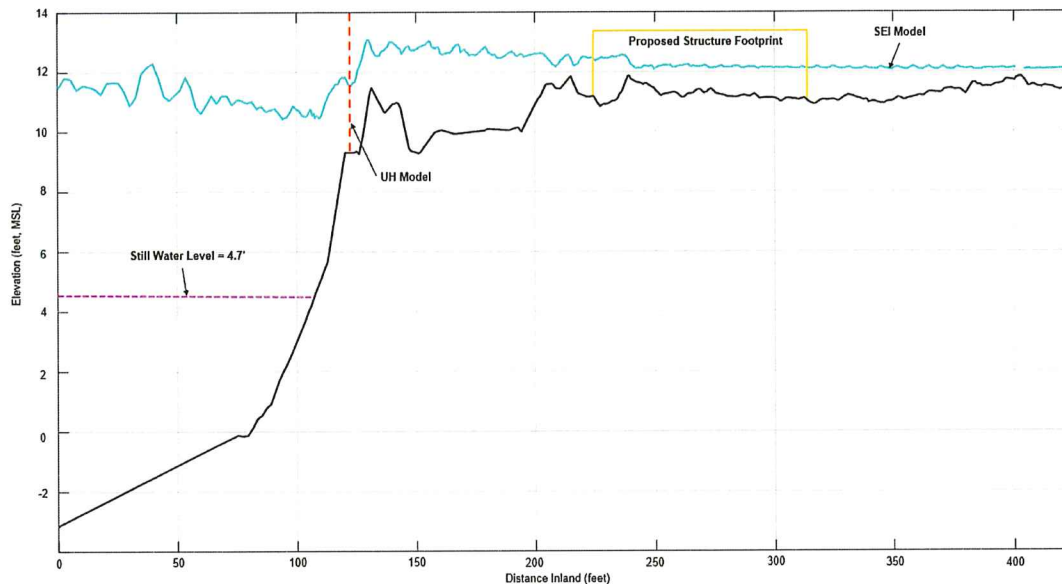


Figure 4-7: Annual high wave models flood results with +3.2 feet of sea level rise.

The National Flood Insurance Program, administered by the Federal Emergency Management Agency (FEMA), produces maps identifying flood hazards and risks. Figure 4-8 shows the flood hazard map for the project area. The map indicates that the shoreline area is rated as Flood Zone VE in red. Zone VE designates areas subject to inundation by the 1% annual chance flood event with additional hazards due to storm-induced velocity wave action. The Base Flood Elevation (BFE) is 11 feet. The seaward edge of the properties are in Flood Zone AE with a Base Flood Elevation of 11 feet. Zone AE designates an area inundated by 1% annual chance of flooding, for which BFEs have been determined. The remainder of the subject properties are in zone XS. Zone XS designates an area of 0.2% chance of flood; areas of 1% annual change of flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. FEMA does not update maps regularly based on updated sea level rise projections. Use of the SEI modeling study results is recommended for site planning.

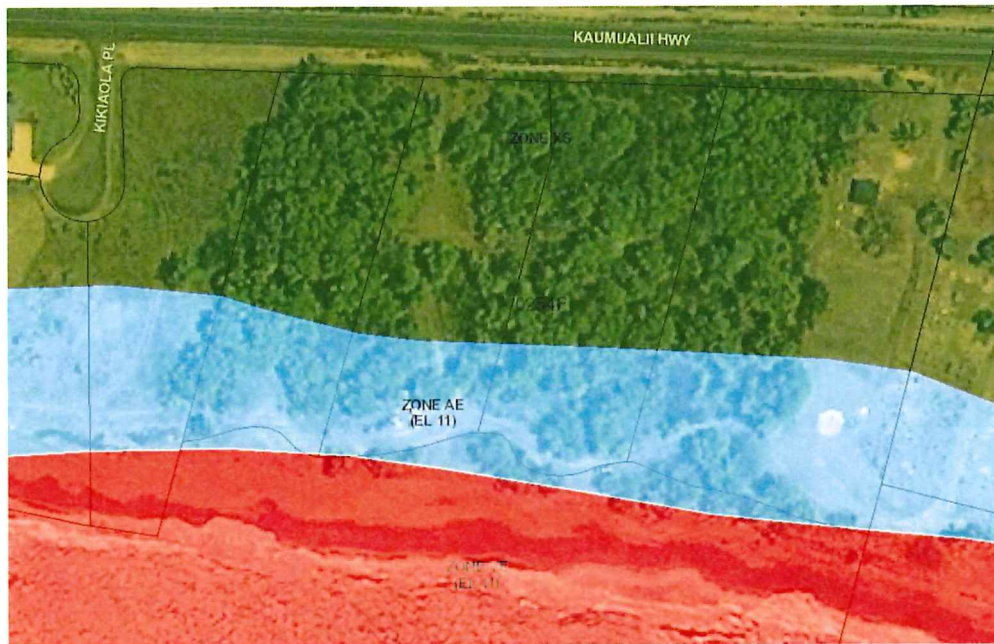


Figure 4-8 FEMA Flood hazard zones within the project area

4.5 Coastal Erosion

The University of Hawaii Coastal Geology Group (UHCGG) analyzed a series of historical aerial photographs to determine historical shoreline change trends along sandy shorelines on Kaua'i. The UHCGG calculated shoreline change rates for the study area based on aerial imagery from 1950 to 2014. The calculation uses shorelines from before and after the Kikiaola Small Boat Harbor was built (1959) and the sand bypass project occurred (2014). The annual erosion hazard rate was -4.1 to -4.49 feet per year.

An updated study by Sea Engineering uses aerial images from 2015, 2021, and 2022 that are all after the sand by-passing project occurred. This analysis uses the erosion scarp on the berm as the reference feature for measuring shoreline change. The scarp appears as a change in color or tone in vertical aerial photographs. Rates of erosion were calculated at three transects for each time period (Figure 4-9). Since the sand bypass project in 2014, there has been a landward migration of the berm at an overall average of -6.1 feet per year. The initial adjustment period eroding the uncompacted sand may account for the recent high erosion rates.

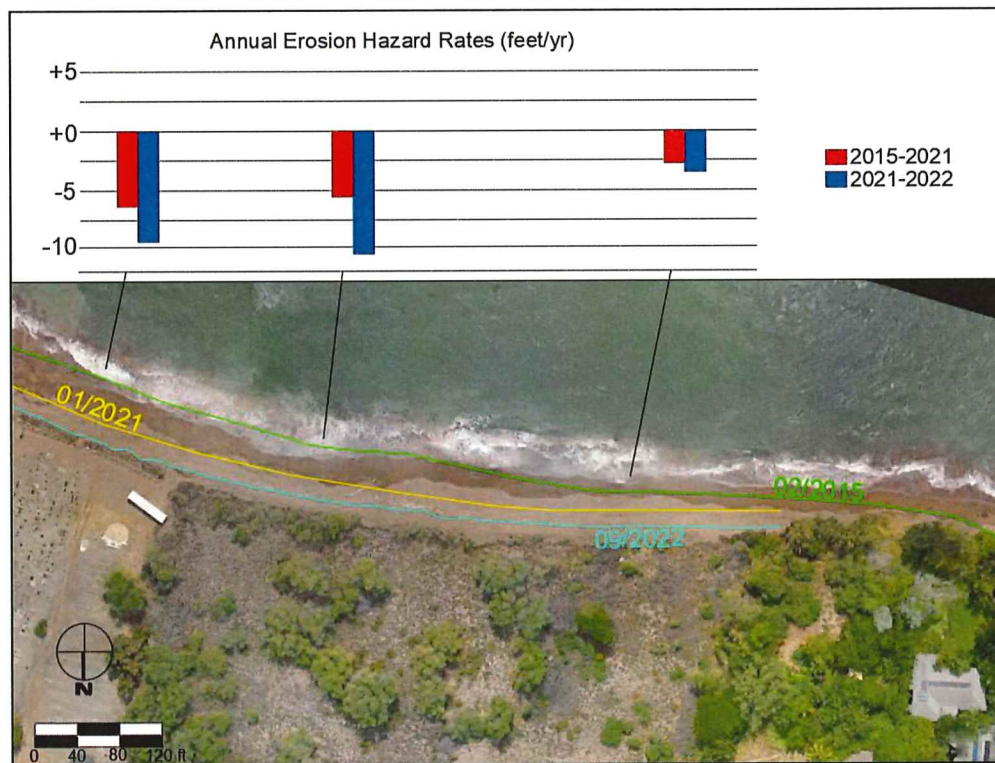


Figure 4-9: Annual erosion hazard rates (feet/year) at the shoreline fronting the project site.

5. COASTAL HAZARD MITIGATION TECHNIQUES

Projected future coastal hazards at the project site show that virtually the entire property area could potentially be flooded by sea level rise coupled with large waves, coastal erosion, and storms. To manage the water and forces from these hazards, mitigation can be in the form of vertical retreat through the building design, nature-based adaptation, accommodation, and engineering adaptation. All of these methods involve varying regulatory requirements, social and economic considerations, possible environmental impacts, and varying degrees of financial cost. Implementation should consider the Kekaha community goals and align to them where possible to gain community support.

5.1 Community Goals

The residents of Kekaha came together over a long community engagement process to develop the 2020 West Kaua'i Community Plan. Outcomes from the community led plan included a policy to increase the resiliency of flood-prone neighborhoods through flood mitigation, drainage improvements, and updated building standards. Future use of the subject properties could improve drainage within the lots to align with this policy. Building standards have been updated through the 2022 Kaua'i Sea Level Rise Constraint District and will be incorporated into building design.

Additional goals of the community of Kekaha are:

- Create a drainage master plan for future projects that utilize low-impact development practices to minimize stormwater runoff
- Develop an overall strategy to protect Kekaha Town and its sandy beaches from the impacts of sea level rise using the best available science and accounting for natural shoreline processes and drainage issues
- Collaborate with scientists and stakeholders to conduct a focused hydrological assessment of Kekaha including groundwater and the effectiveness of pumps, ditches, canals, pipes, and outfalls to manage projected sea level rise.

While these goals are more regional in nature, future work at these parcels could support the goals by creating a drainage plan and accommodating shoreline processes. There is no wastewater treatment in Kekaha, so on-site wastewater treatment should be placed out of the sea level rise hazard area and could consider beneficial reuse systems to help irrigate nature-based adaptation methods.

5.2 Nature-Based Adaptation

Nature-based adaptation can include beach nourishment, the creation or maintenance of a dune or berm, vegetation, wetland restoration, or other nature-based solutions that create a natural buffer between rising water levels and backshore areas at risk. The effectiveness of nature-based protection solutions can vary where there is exposure to high wave energy, in low-energy settings they can reduce coastal erosion rates and improve resiliency. Soft protection methods are often preferable over hard protection since they can provide other benefits, such as habitat creation or enhancement, positive visual impacts, and recreation opportunities.

5.2.1 Vegetation

Nature-based features (NNBF) refers to the use of landscape features to produce flood risk management benefits (Bridges, 2021). NNBF projects may also produce other economic, environmental, and social benefits. These landscape features may be natural (produced completely by natural processes) or nature based (produced by a combination of natural processes and human engineering). Landscape features can be used alone, in combination with each other, and in combination with conventional engineering measures such as revetments, seawalls, and other structures.

A large portion of the subject properties are covered in invasive kiawe with thorns that are sharp and unpleasant to walk through. Thorns are also a hazard to the proposed future use of the property as they can pierce tires and shoes of visitors. Replacement of the vegetation with native species appropriate for the environment can improve the aesthetics of the property, ease of access to the shoreline, and also provide coastal hazard mitigation.

Coastal erosion along the seaward edge of the property can be slowed by planting appropriate vegetation species with root systems to hold sand in the berm together and can help capture wind-blown sand. On exposed ocean coasts subject to significant wave energy, vegetation alone is typically not sufficient to resist wave-induced erosion. While a strong vegetation root system can slow down the erosion rate and the vegetation itself can help dissipate overtopping waves, in most cases, vegetation is quickly overcome by the erosional forces. However, used in conjunction with stronger conventional erosion control/shore protection methods, vegetation can function to help stabilize low-lying ground behind the primary shore protection structure. Maintaining the existing swale and earthen levee on the property can allow water to accumulate during storm events as a stormwater retention wetland with vegetation that can absorb the water and stabilize soils.

The coastal area on the subject properties can be thought of as four zones for Xeriscape landscape planning (Figure 5-1):

- Zone 1 - No irrigation or landscaping is allowed seaward of the certified shoreline because this would encourage encroaching vegetation, which inhibits public access and interferes with coastal processes.
- Zone 2 - Low-lying and loosely bound grasses and vines.
- Zone 3 - Low-lying grasses and vines transition to, or combine with, low-growing shrubs.
- Zone 4 - Larger woody shrubs or shade trees.

Species suggested for the project area are listed in Table 5-1. Additional species can be found in the Hawai'i Dune Restoration Manual. New plantings will generally require some irrigation for the first few months in order to get established. Vegetation monitoring would be needed to ensure stability and persistence of any new plant species and removal of invasive species as they appear.

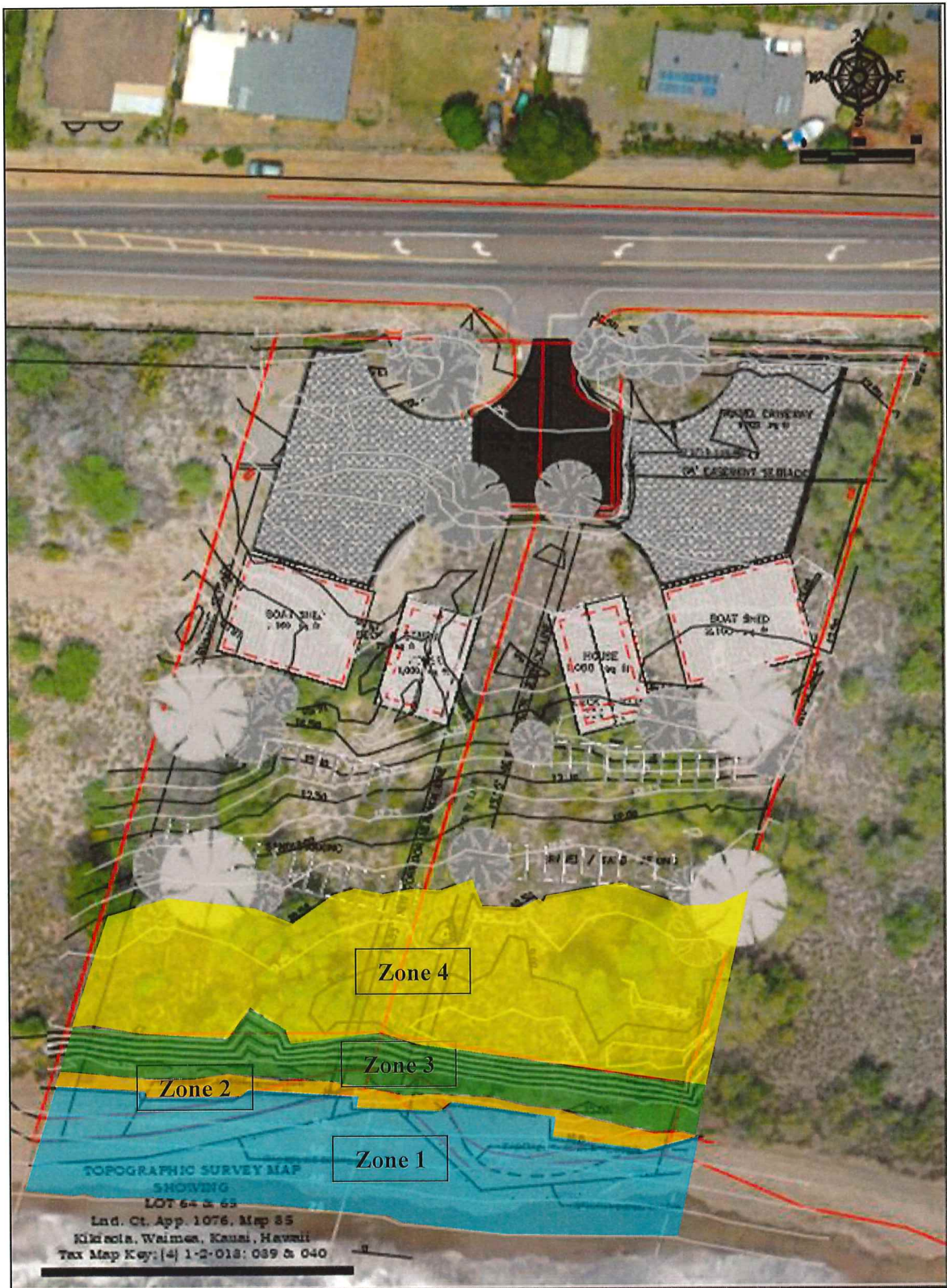







Figure 5-1: Native vegetation planting areas to provide nature-based coastal erosion protection and flood mitigation.

Table 5-1: Native vegetation appropriate for the coastal zones.

	Hawaiian Name	Scientific Name	Comment
Zones 2 and 3			
	‘Aki‘aki	<i>Sporobolus virginicus</i>	Long-lived perennial tolerant of salt air and hot sun. Can grow in low nutrient soils with some organic matter. Roots form a mat under the sand that can resist erosion.
	Pōhuehue (Beach Morning Glory)	<i>Ipomoea pescaprae</i>	Fast-growing long-lived salt- and heat-tolerant perennial with pink or light purple flowers that live for one day. Roots form a mat under the sand that can resist erosion. Prone to pests.
	‘Ākulikuli	<i>Sesuvium portulacastrum</i>	One of the most salt-tolerant of all coastal plants. Provides habitat for invertebrates used as food by native waterbirds. Roots filter and clear water of toxins and other unwanted materials. Leaves and stems are a fleshy red or green with a white or pale violet flower.
	Pōhinahina (Beach Vitex)	<i>Vitex rotundifolia</i>	Edible good-smelling long-lived low lying creeper shrub with light green, grayish, or silvery leaves and a blue or purplish flower.
Zones 3 and 4			
	Hinahina	<i>Heliotropium anomalum</i>	A long-lived perennial that grows close the ground able to suppress weeds. Its leaves have a greenish & grayish appearance with a white fragrant flower.
	Nanea	<i>Vigna marina</i>	Nitrogen-fixing sprawling vine with small yellow flowers that will provide other plants growing in the area with a source of free fertilizer in the form of nitrogen.
	Maiapilo	<i>Capparis sanwichiiana</i>	Long-lived shrub with bright white fragrant flowers. Maiapilo attracts birds and butterflies.
Zone 4			
	Beach Heliotrope	<i>Heliotropium arboreum</i>	A small to medium flowering tree/bush, that is not native to Hawaii, but is generally recognized as a suitable coastal shade tree.

	Milo	<i>Thespesia populnea</i>	A shade tree with shiny green heart shaped leaves, and yellowish flowers. Messy when leaves and seeds drop. Wind and salt-tolerant.
	Hala	<i>Pandanus tectorius</i>	Xeric and salt-tolerant tree that can stabilize coastal soils with its expansive root system and makes a good coastal windbreak. Leaf edges are serrated and roots may be a tripping hazard.
	Kou	<i>Cordia subcordata</i>	A shade tree with up to 35 foot canopy. Has large orange flowers and a shallow root system and can be damaged by too much surface disturbance. Many parts of the tree are useful for products.
	Kamani	<i>Calophyllum inophyllum</i>	Shade tree with fragrant white flowers that makes a good coastal windbreak. Grows best in sandy well drained soils and is tolerant of sea spray. Many parts of the tree are useful for products.

5.2.2 Sand Fencing

The project area has some wind-blown sand accumulating along the landward side of the shoreline berm. Additional sand may be able to accumulate with sand fencing. Sand fencing consists of a low-lying, temporary fence, typically made of wood slats, that captures and accumulates windblown sand grains rapidly along its base. At a wind dominated site, sand fencing can encourage sand accumulation when installed at a 45 - 90 degree angle to the predominant wind direction. Sand fencing can also serve a secondary purpose of creating a visible barrier to foot traffic and directing pedestrian flow to safe pathways to prevent trampling of vegetation and disruption of dune formation. While sand fencing can be a quick and effective way to encourage dune building, the fence must be maintained, removed, or replaced as it gets buried, torn by the wind, or degraded by the sun. In addition, the most effective sand fencing products are generally not biodegradable and eventually must be removed and discarded.



Figure 5-2 Sand fencing at Kanaha Beach, Maui

5.2.3 Slope Stabilization

A more robust alternative to natural shoreline stabilization and protection would be to install a slope reinforcement system composed of a combination of geo-grids or cells, turf reinforcement mats, and vegetation. The geogrid consists of interconnected cells that are anchored into the ground and filled with sand, sediment, or soil. A turf reinforcement mat is then overlain on the grid and dressed with soil or hydromulch. Desired vegetation that dissipates wave energy can then be planted in the infill within each cell, thus creating a vegetated slope. The weight of the infill in addition to the vegetation roots aid in stabilizing the slope. This type of shoreline protection method works best in low-wave energy environments. Presto GeoSystems is one such company that has created a product called GEOWEB® Geocells⁵ that can be installed and used to mitigate erosion in coastal areas. Figure 5-3 shows the installation of the GEOWEB system along the shoreline at Lagoon 1 in Ko Olina, O‘ahu, and the successful post-construction condition. Figure 5-4 shows a slope stabilization project in Lā‘ie using coir material. The primary advantages of a slope reinforcement alternative include lower cost, ease of construction, and use of vegetation to provide a green alternative.

⁵ <https://www.prestogeo.com/products/soil-stabilization/geoweb-geocells/>



Figure 5-3 Slope stabilization with GEOCELLS and vegetation providing soft shoreline protection (Ko'olina, O'ahu)



Figure 5-4 Slope stabilization with native vegetation planting on biodegradable coir providing soft shoreline protection (Lā'ie, O'ahu)

5.2.4 Sand Backpassing

Sand backpassing involves recovering sand from areas of accretion and placing it in areas of erosion. Sand backpassing was conducted at the project area in 2014 taking sand from east of Kikiaola Harbor (Figure 5-5). Sand backpassing counters the natural longshore movement of sand and can be an effective beach maintenance strategy in areas with limited sediment budgets. The sand source area that was used last time would need to be replenished with sand before it can be used to repeat the project. Discussions with regulatory agencies are encouraged to find out if a plan to regularly conduct sand backpassing is being considered.



Figure 5-5: 2014 Placement of bypassed sand in front of the project area.

5.2.5 Beach Nourishment

Constructing or nourishing a protective beach by placing suitable sand in an appropriately designed manner along a shoreline can be an effective and attractive means of mitigating beach loss, protecting against shoreline recession, protecting the backshore area, and providing for recreational and aesthetic enjoyment. The State DLNR and the CZM Program has begun to actively encourage the development of beach nourishment projects, as illustrated by their funding of beach nourishment studies and support for a joint Federal/State General Permit for Small-Scale Beach Nourishment to simplify the permit and approval process for beach restoration projects (Figure 5-6). Beach nourishment requires a source of suitable beach-quality sand and sufficient quantity to meet the needs of the project. Hawaii sand is calcareous (calcium carbonate, primarily from corals and the shells of marine life), and State rules require that only calcareous sand be introduced into the marine environment. There are currently no on-land sources of commercially available calcareous beach sand and limited offshore deposits of suitable beach sand that can be recovered. Offshore sand deposits generally tend to have a particle size finer than desirable for beach nourishment, with a significant fraction of less than sand-size material, and are gray due to the presence of ferrous oxide produced by anaerobic conditions. In addition, environmental assessment and permitting of offshore sand recovery can be an expensive and lengthy process, and the sand recovery itself can be expensive.

A recent example of beach nourishment can be seen in recent State DLNR-sponsored projects to nourish Waikiki beach in 2012 and again in 2021 (Figure 5-7). For each nourishment, approximately 24,000 cubic yards (cy) of sand was recovered from a deposit 2,000 feet offshore, transported to an onshore de-watering basin, and then placed along 1,700 feet of shoreline. This was not inexpensive. In 2012 the in-place sand cost was about \$100/cy, and in 2021 it was \$180/cy. Unfortunately, Waikiki Beach is chronically eroding so beach nourishment is only a temporary improvement, and will have to be repeated every 10 years or so to maintain the beach.



Figure 5-6 Small-scale beach nourishment at Paia, Maui (2016)



Figure 5-7 Waikīkī Beach beach nourishment: Before (left, 2009), After (right, 2012)

5.2.6 Beach Nourishment with Stabilization

On chronically eroding shorelines which would necessitate extensive regular nourishment to maintain the effectiveness of the beach for shore protection, and for which periodic sand nourishment alone is not cost-effective or a sustainable source of suitable sand is not available, structures can be used to stabilize the beach fill and reduce significantly the need for re-nourishment.

Groins are typically used to prevent longshore transport of sand and delaying erosion of an existing beach. A local example is the Royal Hawaiian Groin on O'ahu (Figure 5-8). Where there is significant longshore sand volume available, and adverse impacts to downdrift shorelines are not a problem, groins can be used to trap sand and build a protective beach. However, modern coastal engineering practice typically includes a regional perspective that considers the stability of adjacent beaches and shorelines, and thus groin emplacement may also involve beach fill to not remove sand from the overall beach system. For a long shoreline reach a groin "field" is typically utilized, with the distance between groins a function of the design wave conditions, the length of the individual groins, and the extend of shoreline re-adjustment desired. A sandy shoreline will also adjust its position between groins to align itself parallel to the incident wave crests, resulting in the landward recession of the shoreline on the updrift side and accretion on the downdrift side. Because groins block the longshore transport of sand their use must carefully consider possible downdrift effects.

The Iroquois Point Beach Nourishment and Stabilization project is a good example of a stabilized beach nourishment project. Nine rock T-head groins were used to stabilize 95,000 cubic yards of sand placed along 4,200 linear feet of chronically eroding shoreline (Figure 5-9). The project created seven acres of stable beach recreation area, and project impact monitoring has shown that the habitat created by the rock groins has resulted in a very significant increase in marine species density and diversity in the project area.

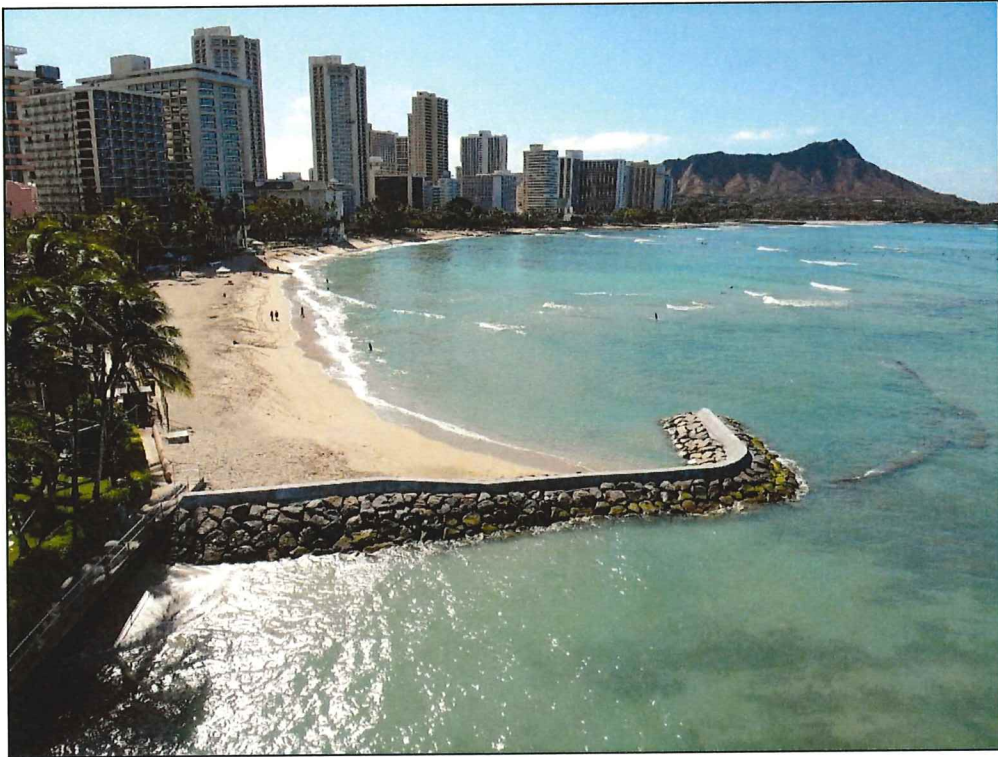


Figure 5-8 Beach stabilization with L-head groin (Waikiki, O'ahu)



Figure 5-9 Beach stabilization with T-head groins (Iroquois Point, O'ahu)

5.3 Accommodation

Accommodation reduces the coastal impacts, e.g. it happens but you can live with it. Accommodating rising water levels is primarily accomplished by raising the existing ground elevation above the projected increased water level, or by raising the structure or infrastructure above the water level.

5.3.1 Building Design

Building plans on the properties will avoid flood hazards by building above the Federal Emergency Management Agency (FEMA) base flood elevation (BFE) based on flood hazard mapping. The BFE is an elevation indicated on the Preliminary Flood Insurance Rate Map defining the elevation of a potential flood. The seaward half of project area has a BFE of 11 feet. The landward half has no BFE.

In the design of a structure located within the shoreline floodplain, an additional height is required to put the structure above the elevation of a potential flood. This additional height is called the freeboard. In normal flood protection design a free board of 1 to 2 feet is common. The higher the freeboard designed, the less the risk of flooding.

The Kaua'i Sea Level Rise Constraint District requires all new construction and substantial improvements to have the lowest floor (including basements) elevated at least two (2) feet above the highest sea level rise flood elevation (SLRFE) located within the respective building footprint. This additional two (2) feet shall be calculated from the top of the SLRFE to the bottom of the lowest horizontal structural member of the lowest floor, excluding pilings, columns, and vertical accesses.

For example, Figure 5-10 shows an example of a home that was built to accommodate coastal hazards. The ground level is open and allows water to flow through the structure during extreme events. The residential portion of the structure is at a higher elevation. At the subject properties, this design flood elevation on top of the topography can be visualized as Figure 5-11. Any structures built on the lots needs to be above these elevations.



Figure 5-10 Example of vertical accommodation (freeboard) on Moloka'i

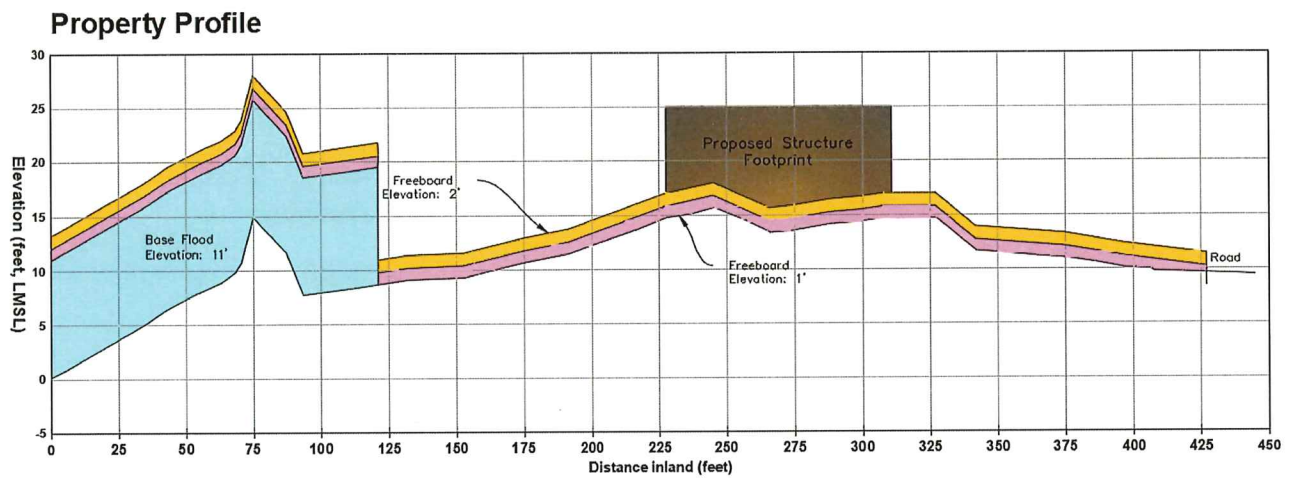


Figure 5-11: Design flood elevations on top of representative topography within the project area.

5.3.2 Berm Walkovers

Berm walkovers or other foot-traffic management methods can protect the trampling of installed nature-based adaptation solutions. Foot traffic and trampling of vegetation are often the primary threats to the maintenance or re-establishment of coastal dunes. Local topography and usage will heavily influence the types of access paths needed. At this project site, an elevated boardwalk could be a good fit leading from guests in the parking lot to the shoreline. Boardwalks could be simple over the swale and berm or they could be more intricate with bird viewing areas under shade trees, picnic table platforms, informative signs, etc. depending on the owner's preferences. Boardwalks have the potential to be damaged by coastal hazards. Structures constructed of biodegradable materials that can give way to hazards and rebuilt if destroyed are suggested. An example of a walkover structure is provided in the Hawai'i Dune Restoration Manual (Figure 5-12).

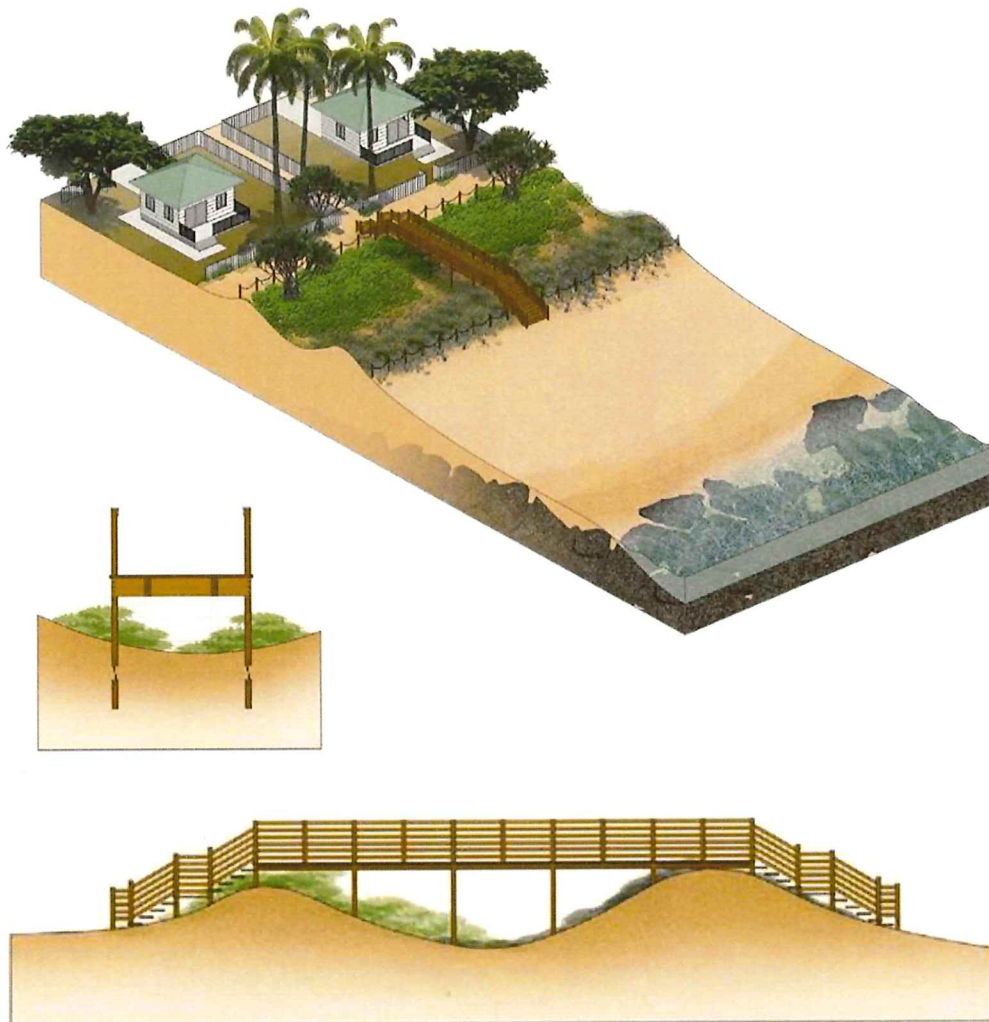


Figure 5-12 Example of elevated walking platforms.

5.3.3 Parking Lot Drainage

The proposed future use of the properties would add parking lots and washdown areas. Paved surfaces can lead to stormwater runoff that and flooding of areas adjacent to the pavement. In addition to coastal hazards during a storm, the cumulative flood hazard is greater. Methods exist to allow for drainage in and around paved areas, sometimes referred to as blue-green streets.

Pervious asphalt, pervious concrete, interlocking pavers, and plastic grid pavers, allow rain to seep through the surface down to underlying layers of soil and gravel (Figure 5-13). In addition to reducing the runoff from the rain that falls on them, permeable pavements can help filter out pollutants that contribute to water pollution. The Environmental Protection Agency compiles resources on permeable pavement options that could be used by the architect for the proposed development if desired by the owner⁶. Around the edges of paved surfaces, small vegetated swales can help absorb excess water (Figure 5-14).



Figure 5-13 Some examples of pervious pavement types (Sprouse, 2020).

⁶ <https://www.epa.gov/soakuptherain/soak-rain-permeable-pavement>



5.4 Engineering Adaptation

Construction of shore-parallel materials armoring the shoreline to prevent erosion and fix its position is typically accomplished by constructing sloping rock revetments, vertical cemented rock or concrete seawalls, or vertical sheet pile bulkheads. Onshore, shore-parallel structures are designed to prevent the retreat of the landward region they protect and do nothing to reduce erosion of the beach. These methods are effective for stabilizing the shoreline, however, on sandy shorelines suffering chronic long-term beach erosion they will likely result in the loss of the sand beach. Some hard protection options include:

- Seawall
- Revetment
- Hybrid Seawall-Revetment
- Buried bulkheads
- Offshore Breakwater

Some existing examples of protection in Kekaha are the revetment 0.5 miles west of the project area protecting Kaumualii Highway and the Geotextile sandbags fronting a property 0.17 miles west in response to erosion.

5.4.1 Seawall

A seawall is a vertical or sloping concrete or concrete-rock-masonry wall used to protect the land from wave damage and erosion. A seawall, if properly designed and constructed, is a proven, long-lasting, and relatively low-maintenance shore protection method. Seawalls also have the advantage of requiring limited horizontal space along the shore. However, the impervious and vertical face of a seawall results in very little wave energy dissipation. Wave energy is deflected both upward and downward, and a large amount of incident wave energy is reflected seaward. The downward energy component can cause scour at the base of the wall, and thus the foundation of a seawall is critical for its stability, particularly on a sandy and eroding shoreline. Ideally, a seawall should be constructed on a solid, non-erodible substrate. Seawalls are not flexible structures, and their structural stability is largely dependent on the stability of their foundations. Reflected wave energy can inhibit beach formation in front of the wall, and thus seawalls are not the best alternative if maintaining a beach seaward of the structure is desired. Figure 5-15 illustrates a concrete seawall.

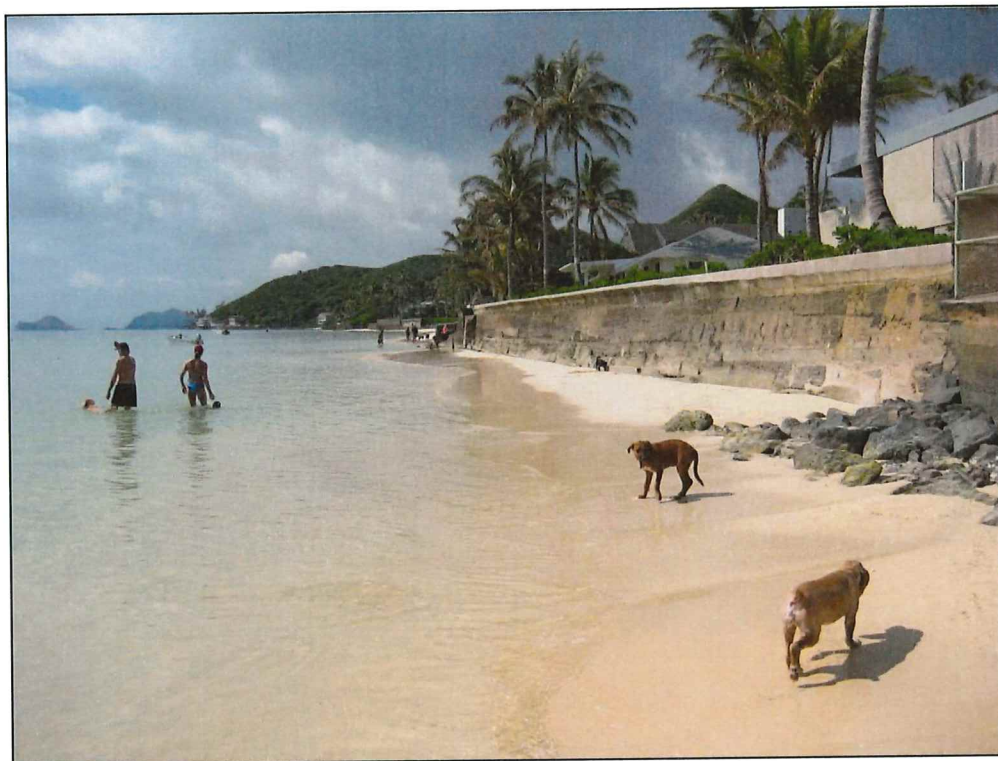


Figure 5-15 Typical concrete seawall providing hard shoreline protection

5.4.2 *Revetment*

A revetment is a sloping uncemented structure built of wave-resistant material. The most common method of revetment construction is to place an armor layer of stone, sized according to the design wave height, over an under-layer and filter designed to distribute the weight of the armor layer and to prevent loss of fine material through voids between stones. In low wave height environments, a well-graded range of stone sizes may be used in place of uniform armor stone. An important aspect of revetment design (or any type of wall) on loose, unconsolidated material is to prevent scour around the toe which could result in collapse and failure of the structure. Toe scour protection can be provided by excavating to place the toe on a solid substrate where possible, constructing the foundation below the maximum depth of anticipated scour, or extending the toe to provide a scour apron of excess stone. Properly designed and constructed rock revetments are durable, flexible, and highly resistant to wave damage. The rough and porous surface and flatter slope absorbs and dissipates more wave energy than smooth vertical walls, thus reducing wave reflection, run-up, and overtopping. However, the sloping revetment does occupy more horizontal space and has a larger footprint than a seawall would. A typical rock riprap revetment is shown in Figure 5-16.

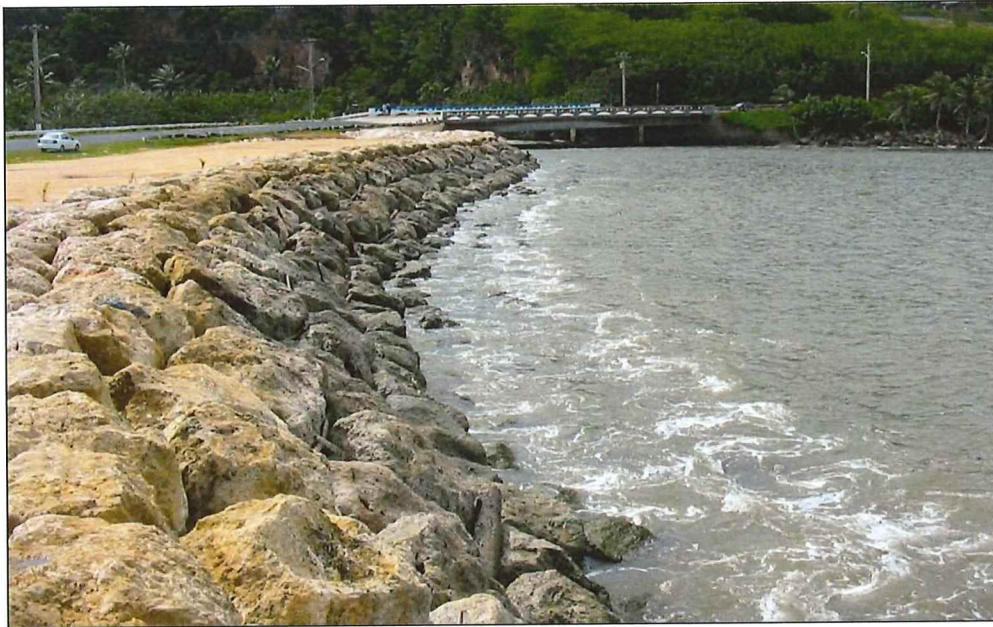


Figure 5-16 Typical rock revetment providing hard shoreline protection

5.4.3 Hybrid Seawall-Revetment

A hybrid seawall-revetment is a shore protection structure that combines a vertical seawall with a sloping rock revetment. A hybrid seawall-revetment would be composed of two primary elements: a seawall (i.e. sheet pile, reinforced concrete, or cemented rock masonry) and a uniform armor rock rubblemound revetment. An example of a hybrid seawall-revetment is shown in Figure 5-17.

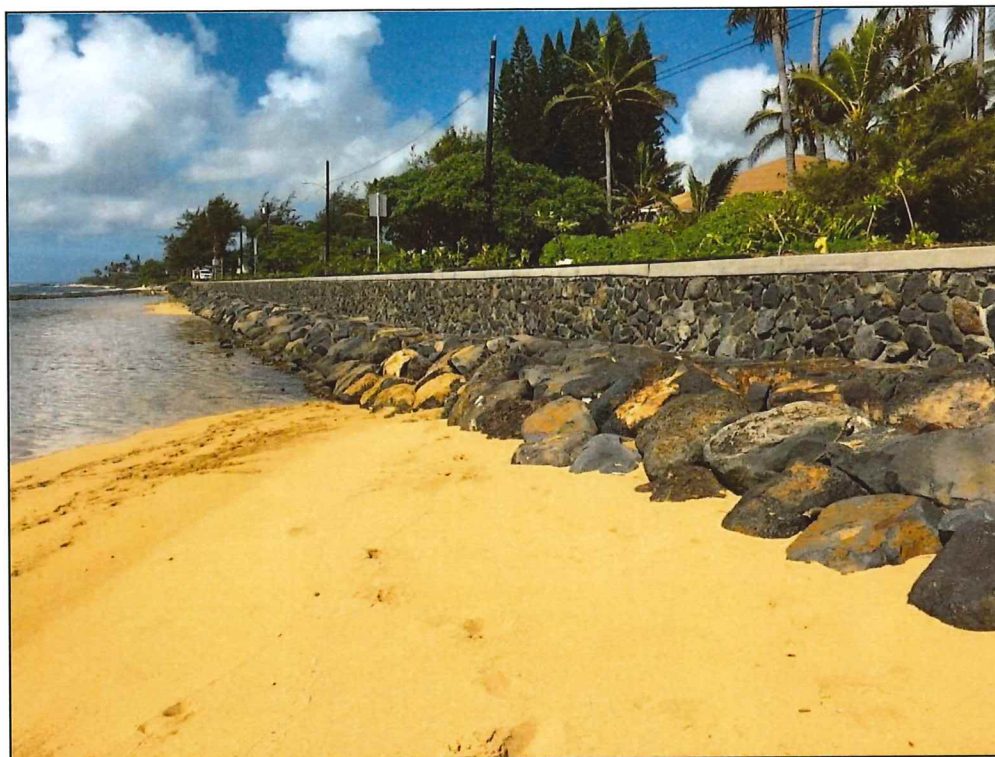


Figure 5-17 Hybrid seawall-revetment(Kapa'a, Kaua'i)

5.4.4 Buried Bulkheads

Buried bulkheads are hard protection that extend below ground to provide shore protection prior to erosion events. Bulkheads can be used to protect critical infrastructure. Some examples are Secant Pile walls and Sheet Pile walls.

Secant pile walls are typically constructed of reinforced concrete piles that interlock. Secant pile walls offer increased wall stiffness compared to sheet piles and can be installed in more difficult ground conditions. An example of a concrete secant pile wall is shown in Figure 5-18. Concrete secant pile walls have a small structural footprint and does not require the installation of soil anchors. If a concrete secant pile wall is exposed by erosion, it would be less susceptible to corrosion than a steel sheet pile wall.

Sheet piles are sections of material, typically steel or vinyl, with interlocking edges that are driven into the ground. Steel sheet piles, while very strong, are vulnerable to corrosion in the coastal environment and often require an earth anchoring system. An example of a steel sheet pile wall with earth anchors is shown in Figure 5-19. A steel sheet pile wall is thinner in section and may require less clearance for installation than a concrete secant pile wall.

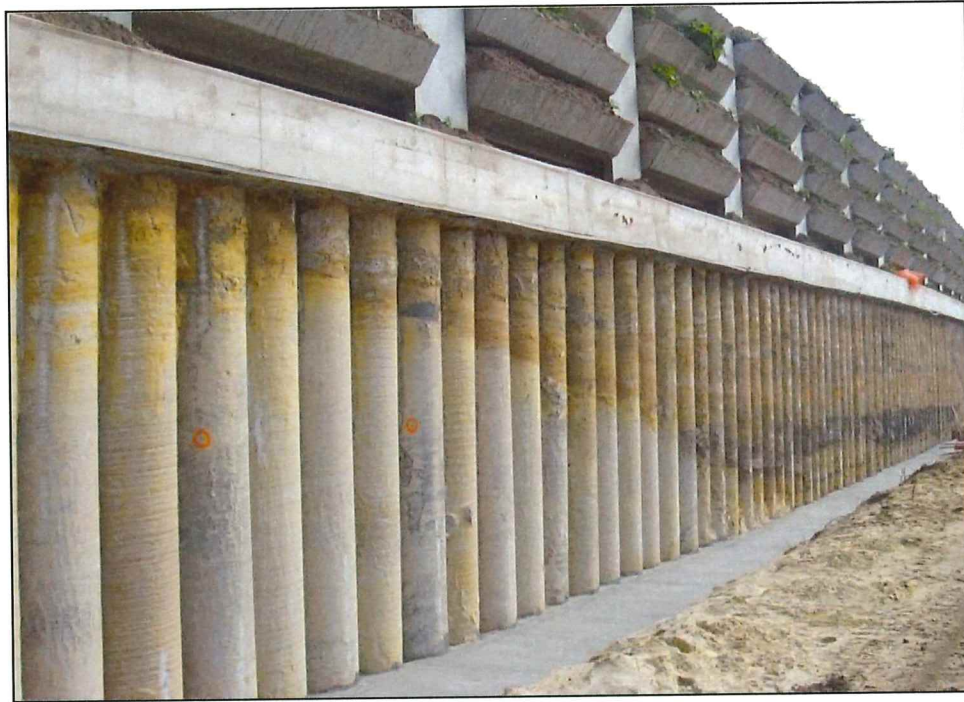


Figure 5-18 Example of a concrete secant pile wall

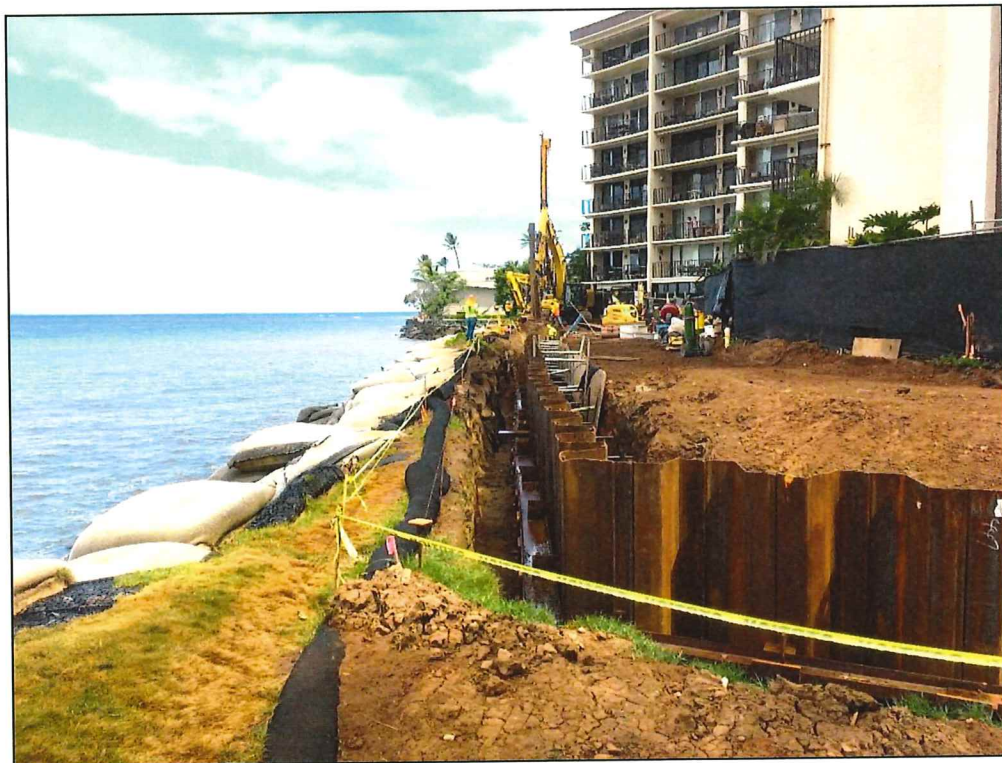


Figure 5-19 Example of a steel sheet pile wall with earth anchors (Kahana, Maui)

5.4.5 Offshore Breakwater

Offshore breakwaters are typically segmented structures oriented parallel to the shoreline, and provide protection from wave energy for the shoreline on their leeward side. This reduction of wave energy in the breakwaters shadow reduces the transport of sand by wave action and sand transported by a predominant longshore current will tend to be deposited in the lee of the structure. This deposition causes the growth of a cusped spit extending from the shoreline, and if the breakwater's length is great enough in relation to its distance offshore, the cusped spit may connect to the breakwater, forming a tombolo. Thus, breakwaters provide protection to the backshore property not only by reducing incident wave energy, but also by helping to build a wider protective beach. As with revetments and groins offshore breakwaters are typically of rock rubblemound construction.

A major issue in designing an offshore breakwater for shore protection is whether to design for cusped spit or tombolo formation by the adjusted shoreline. Tombolo formation will completely block longshore transport along the shore, and potentially result in erosion downdrift of the structure. A cusped spit may allow some transport of sand along the shore, thus reducing impacts to downdrift shorelines. Both cusped spit and tombolo formation do not provide uniform protection along the entire shoreline, with the shoreline moving seaward in their lee and moving landward in the gaps between breakwaters. In addition, functional design guidance for offshore breakwaters is lacking, and prediction of their performance is inexact, thus they have not been used extensively in the United States.

Figure 5-6 shows an offshore breakwater constructed in 1965 at Haleiwa Beach Park on Oahu in an effort to reduce erosion and stabilize the shoreline fronting the park pavilion. However, as is evident in the photo, the breakwater has been completely unsuccessful in achieving its intended purpose. This illustrates the care which must be taken when designing beach stabilization structures.



Figure 5-20. Offshore breakwater at Haleiwa Beach Park

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EXHIBIT "F-2"

Ka Pa'akai Analysis For Hale Wa'a

Native Hawaiian Traditions, Customary Practices and Perspectives of
Waimea Ahupua'a, 'ili of "Kīkīaola,
Moku o Kona, Kaua'i Island
for
TMK (4) 1-2-013:039 and 040



Prepared for
Nathaniel Fisher
Na Pali Experience LLC.

Prepared by
Exploration Associates Ltd.

March 2023

EXHIBIT "F-2"

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INTRODUCTION

At the request of Nathaniel Fisher of Na Pali Experience, LLC, Exploration Associates (EAL) conducted a Ka Pa`akai analysis of 2 parcels (TMK (4) 1-2-013:039 and 040 (lots 64 and 65) which is in the Waimea Ahupua`a, 'ili of "Kīkīaola, Kona District on Kaua`i Island (Figures 1 - 4). Hereinafter referred to as "*project area and/or the subject properties*". The subject properties are located makai of Kaumualii Hwy. To the northwest and north are residential properties and undeveloped lands. To the southeast is an undeveloped parcel and two County cemeteries. The property is vacant and undeveloped with a cul-de-sac with existing utilities outlets for all the lots at the corners of the parcels.

The proposed plans are to develop the two parcels to have in the mirrored site plans for single family residences (1000 sq. ft. per house) and boatsheds (2,160 sq. ft. per boatshed). One of each on each parcel (Figure 4). Lot 64 parcel 39 is 1.11 acres and Lot 65 is parcel 40 which is 1.118 acre. The County Zoning is Open and in the special management area (SMA). The County Planning Department now requires all land use permits address the proposed project's effects on traditional Hawaiian practices, customs, and beliefs. This Ka Pa`akai analysis provides information pertinent to the evaluation of the proposed project's cultural impacts.

METHODOLOGY

Methodologies guided by indigenous Hawaiian cultural perspectives and intellect were used to conduct this study. It is always imperative that traditional values of *aloha* and *hō`ihi* (sincerity, love, and respect) are ever present in the actions of the research and investigative team that engages with the natural environments, resources, people and communities from which/whom information will be gathered for this work. Special focus and attention is given to the examination of the land, water and atmospheric features that are applicable to the study project area and all lands and environments associated with it.

At the onset of this project, EAL entered this work with much enthusiasm and confidence of already "knowing" this place. Even with a limited window of time to conform to, EAL knew that only a little had been documented to bring forth the values and depth of traditional Hawaiian knowledge and customary practices of 'ili) of "Kīkīaola's ancient past. Information and personal experiences that EAL possessed provided an advantage to accomplish the task of completing this Ka Pa`akai analysis.

Much of the effort in conducting studies such as this is to review and evaluate the land allocated for the project area and any possible adverse influences and consequences relating to indigenous Hawaiian beliefs and practices. Over the

years, much has changed in this area except for the bust in tourism and the boating industry. Waimea is still a town community descended from a rich and vibrant Native Hawaiian culture and ancestors who knew this land these islands so intimately. The relationships they held with the natural world as divine and godly, influenced levels of consciousness that dictated every aspect of native Hawaiian life ways and cultural practices.

Scope of Work

- (1) The identity and scope of valued cultural, historical, or natural resources that are found within the proposed project area and relevant areas within the ahupua'a of Waimea and nearby Kekaha, including the extent to which traditional and customary Native Hawaiian rights are exercised.
- (2) The extent to which those resources – including traditional and customary Native Hawaiian rights – will be affected or impaired by the proposed action.
- (3) The feasible action, if any, to be taken by the agency to reasonably protect Native Hawaiian rights if they are found to exist. (Ka Pa'akai, 94 Haw. at 19, 7 P.3d at 1084.)

ENVIRONMENTAL SETTING

Kaua'i is the oldest of the Hawaiian Islands. Geologically, the original volcano, located in the middle of the island went through a period of weathering and erosion. There were voluminous rejuvenated stage lavas which represent the later eruptive stages of the volcano. The primary basaltic rocks from the original volcano are the Waimea Canyon series. The innumerable lava flows are divided into three major geologic formations: the Napali formation, the Olokele formation, and the Makaweli formation. The Napali formation of the Waimea Canyon series is the most permeable of the three.

After the original flows, the Kōloa volcanic series covered most of the eastern part of the island. The Kōloa series are less permeable than the Napali formation lavas. The Kōloa series of flows were deposited in relatively flat layers compared to the Napali flows. The Olokele and Makaweli formations are also relatively flat but more permeable than the Kōloa series.

Topography and Soils

The project area is situated at 2.0–4.0 m above mean sea level (AMSL). According to the USDA Web Soil Survey, the soils in the project area are classified as Jaucas

loamy fine sand, dark variant, with 0 to 8 percent slopes (JkB), as shown in Figure 3. The Jaucas series are found on vegetated beach areas along the shore. This soil is formed in calcareous sand deposits. They are very deep, excessively drained, and have very rapid permeability (Soil Survey Staff 2017). Areas containing these soils are typically used for recreation and as marine wildlife refuges.

Beaches are described as follows: Beaches (BS) occur as sandy, gravelly, or cobbly areas on all the islands in the survey area. They are washed and rewashed by ocean waves. The beaches consist mainly of light-colored sands derived from coral and seashells. A few of the beaches, however, are dark colored because their sands are from basalt and andesite. Beaches have no value for farming. Where accessible and free of cobblestones and stones, they are highly suitable for recreational uses and resort development [Foote et al. 1972:28].

From a historic preservation perspective, Jaucas sand deposits are associated with the presence of traditional Hawaiian burials and subsurface cultural deposits.

Rainfall and Vegetation

Located on the drier leeward coast of Kaua'i, annual rainfall at the project area averages 512.5 millimeters (mm) (20.18 in) per year, with most rain falling in the months between October and March. Giambelluca et al. 2013). The project area is situated makai of the Kuamualii Highway.

Vegetation along this arid coast is sparse. With 20 inches or less of rain annually, only the hardiest plants adapted to the coastal environments can thrive in this zone. The vegetation is typical of dry seashore environments in Hawai'i and is dominated by alien species. The parcel is intermittently vegetated with *kiawe* (*Prosopis padilla*), *koa haole* (*Leucaena leucocephala*), and various grasses, such as bristly foxtail (*Setaria verticillata*), bermudagrass (*Cynodon dactylon*), a fingergrass (*Chloris* sp.).

Temperatures in the southwest and west sides of Kaua'i average between approximately 60 and 90 degrees, with prevailing northeast trade winds (Armstrong 1983:64–65).

Built Environment

The project area lies in a relatively undeveloped stretch of land between the urban/suburban centers of Waimea (approximately 700 m to the southeast) and Kekaha to the north and northwest. Kuamualii Highway, the major vehicular artery to west Kaua'i, lies along the north end of the project area. The Kikīaola Small Boat Harbor, located just southeast of the project area, was originally developed by the State of Hawai'i in 1959 and is named after the land area ('ili) of "Kikīaola." Kikīaola is best known as the name of a historic irrigation ditch ('auwai) also known as

"Menehune Ditch" or "Pe'ekaua'i Ditch," SIHP # 50-30-09-00026, that is traditionally believed to have been built by the Menehune (legendary small people); the ditch was added to the National Register of Historic Places on 16 November 1984.

The current project is surrounded by residential housing to the north, undeveloped land to the east, and Kīkīaola Small Boat Harbor and the ocean to the south (including the two cemeteries).

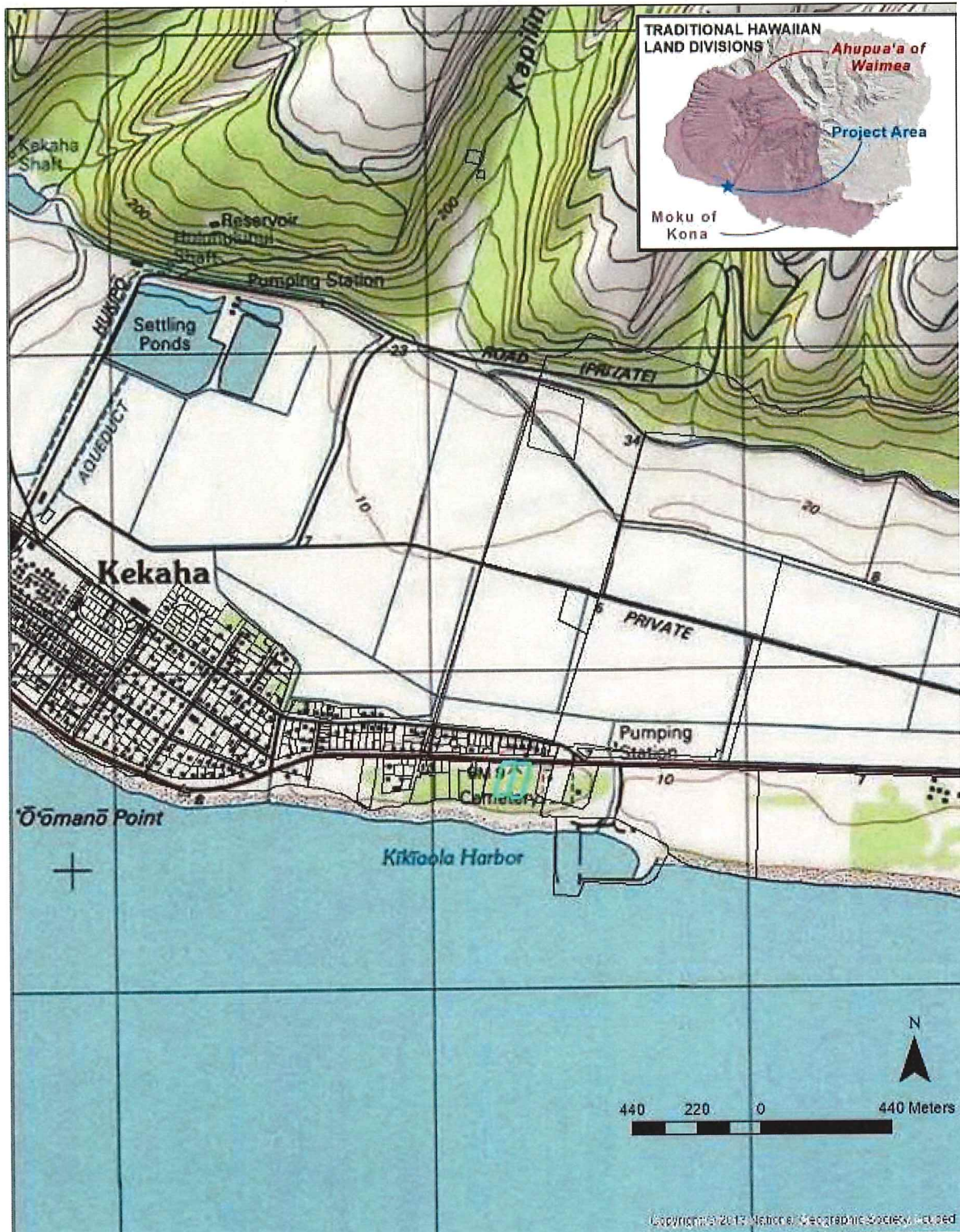


Figure 1. USGS Kekaha Quad Map of the Project Area in Blue.



Figure 2. Aerial image indicating location of project areas in blue and green.

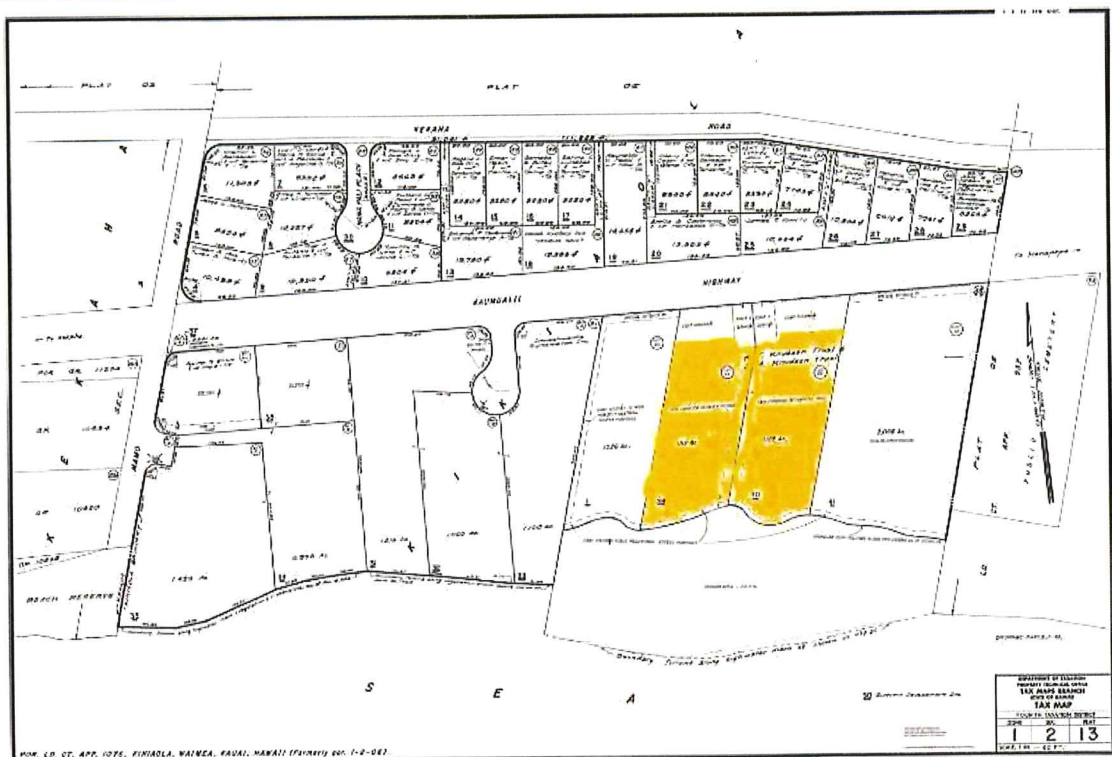


Figure 3. TMK Location parcel 39 (lot 64) and parcel 40 (lot 65).

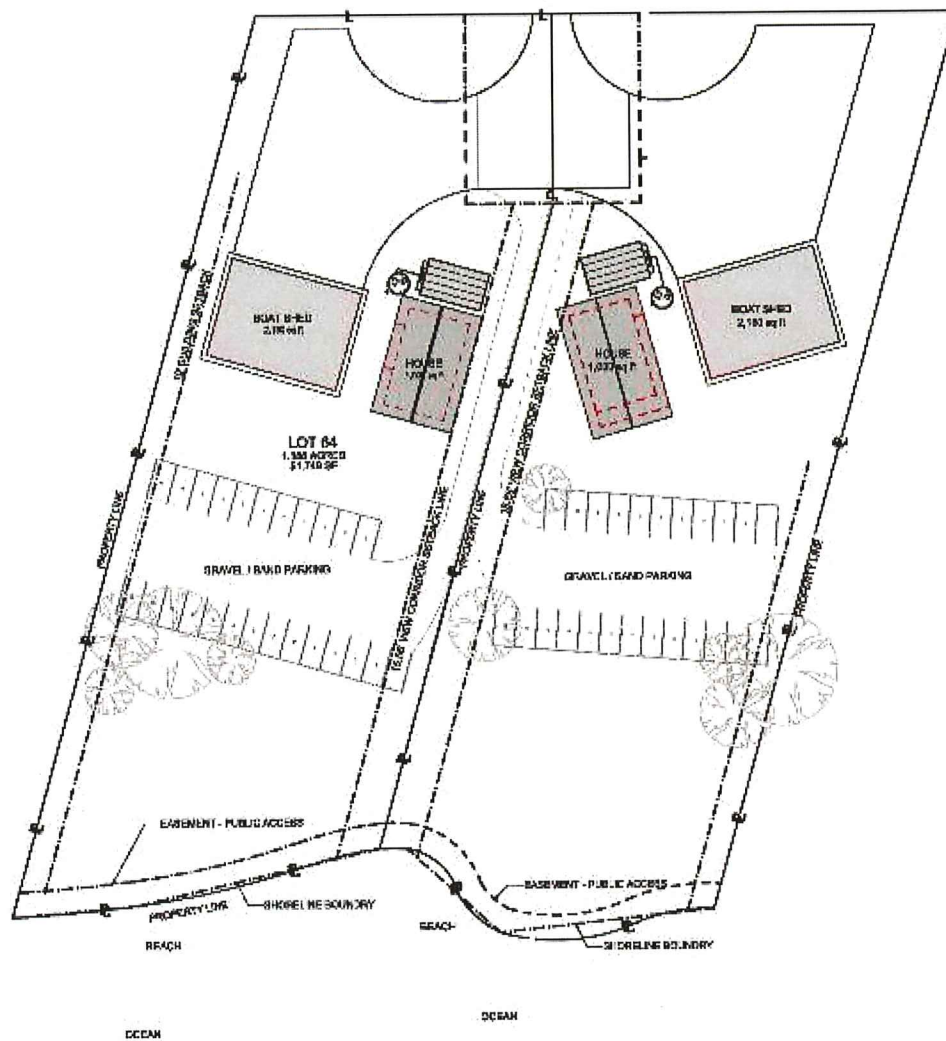


Figure 4. Site plan for both lots.

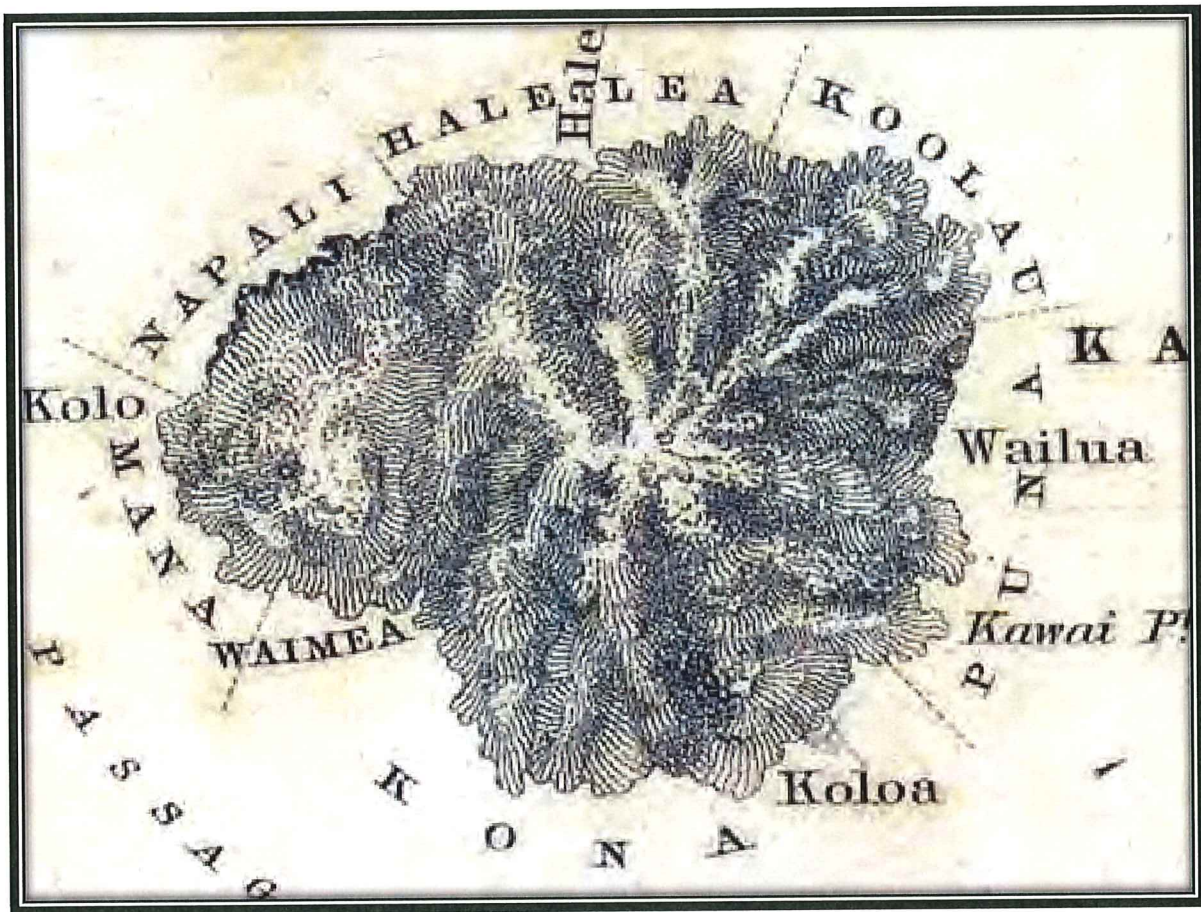


Figure 5. 1845 Map of Kaua`i by Charles Wilkes for U.S. Mapping Expedition. Note that it shows 6 moku or districts including Ko`olau, Halele`a, Nā Pali, Kona and Mānā. Typically, Kaua`i is divided into 5 moku. Mānā is usually considered as part of the Kona moku.

Geologically, Kaua`i is the oldest of the main inhabited islands in the chain. It is also the northwestern-most island, with O`ahu as its closest volcanic sibling separated by the tempestuous Ka`ie`ie Channel which is more than 72 miles long. In centuries past, Kaua`i's isolation from the other islands kept it safe from outside invasion and unwarranted conflict.

Waimea ahupua`a is in the ancient district of Kona, Waimea `okana (a district or subdivision) on the southwest side of the island of Kaua`i. Waimea Ahupua`a is located on the west side of Kaua`i and covers more than one-quarter of the island. This ahupua`a (traditional Hawaiian land division) comprises the Waimea River Canyon, the Kōke'e uplands, Alaka'i Plateau, numerous inland and coastal valleys, and Mānā Plain.

Waimea *Ahupua'a* is by far the largest on the island, comprising 92,646 acres and accounting for more than a quarter of the total land area of Kaua'i. It encompasses all the Waimea River Canyon area, the uplands of Kōke'e, the high swampy plateau of Alaka'i, and the northwestern coastal valleys of Nu'alolo and Miloli'i (Gray 1875: 140-146). Waimea *ahupua'a* is composed of several regions, which are very different in climate and terrain. These differences essentially dictated the kinds of resources that were available, and hence had much to do with the way the *ahupua'a* was settled by pre-Contact Hawaiians. The well-watered valley and delta of the Waimea River were ingeniously developed and engineered for wetland agriculture and represents the epitome of the typical Hawaiian and Kaua'i-type valley settlement (Handy and Handy 1972). On the southwestern leeward coast, about three miles from Waimea Bay, a broad, flat plain stretches between the Waimea River delta and Polihale to the west (Handy and Handy 1972). It is here that Kekaha, Pōki'i, Wai'awa and Mānā are located, backed on the *mauka* (towards the mountain) side by steep low cliffs and a series of small valleys and gulches. Just below, *makai* (towards the ocean) of the ridges and valleys, lies the Kekaha Ditch, which winds its way down from the Waimea River in the mountains. From the edge of Kekaha Ditch to the ocean lie the former swamp lands of the Kekaha-Mānā plains, now planted in corn and truck produce, and previously in sugar cane.

Within *ahupua'a* are now *'ili'āina* (a further division of land within the *ahupua'a*). This area is called the *'ili* of "Kīkīaola.

CULTURAL OVERVIEW

Poetically the island is called, "*Manōkalanipō*", or "*Kaua'i a Manō*" after the ancient chief who was largely responsible for elevating Kaua'i's ancient society to sophisticated heights of advancement and productivity. For centuries, from the time of Manōkalanipō's reign, through Kamehameha's unsuccessful attempts to invade Kaua'i in 1796 and 1804, Kaua'i remained free from warfare.

In 1810, Kaumuali'i accepted Kamehameha as the supreme ali'i by peacefully ceding Kaua'i to the newly United Kingdom of Hawai'i. With honor, Kaumuali'i was encouraged to return to rule on Kaua'i as its tributary chief under Kamehameha I.

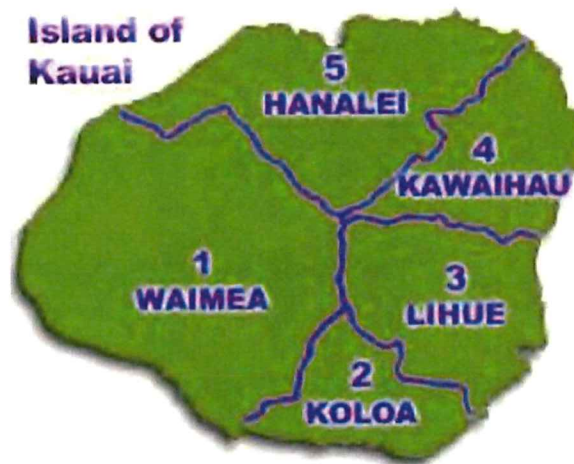
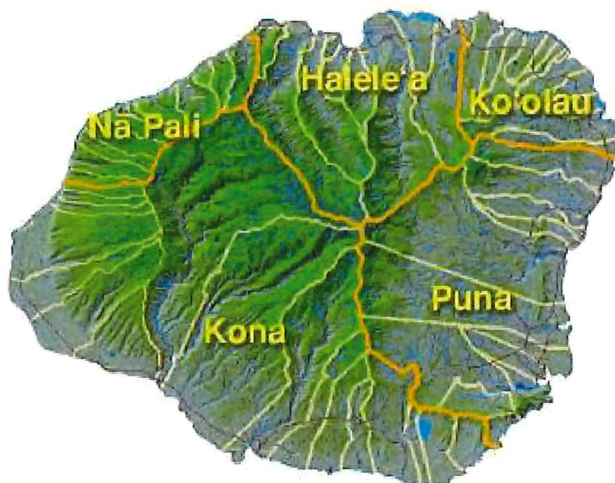
In accordance with the ancient land division system, an entire island is referred to as a *mokupuni*. While the word, *moku* by itself can also mean island, it is a term that is more specifically used to identify a district. *Puni* means, *controlled, surrounded, to gain control of*. It comes from the word, *aupuni* which is used to

describe a government, kingdom, dominion, nation, or population that is governed or under the leadership of a ruler. In ancient times, a moku puni could include an entire island as well as multiple islands that was ruled by an Aliʻi Nui or paramount chief. Historically, the moku puni of Kauaʻi has included the islands of Niʻihau as well as Lehua.

Kauaʻi Island has traditionally been divided into 5 moku including: Koʻolau, Haleleʻa, Nā Pali, Kona and Puna. The aliʻi nui appointed aliʻi ʻai moku or district chiefs to manage the various moku.

Common district names that are universally used across of the Hawaiian archipelago include "Koʻolau" marking the windward sides of the islands; "Kona" - the leeward sides of the islands; and "Puna" - indicating regions where springs and fresh water abound.

The boundaries of the five moku on Kauaʻi were changed in the late 1800s to reflect the present-day judicial land districts. The Project Area is in the Kona district upon land within the Waimea ahupuaʻa.



Figures 6 & 7 show Kauaʻi Island Districts and Boundaries. Fig 6 on the left show the original moku of Koʻolau, Haleleʻa, Nā Pali, Kona and Puna. Fig 7 on the right show the revised boundaries and judicial land districts of Kawaihau, Hanalei, Waimea, Kōloa and Līhuʻe.

Traditionally, the districts were further divided into smaller land divisions known as *ahupua`a* which included the abundance of land and resources from the mountain to the sea. Under the direction of the *ali`i `ai moku*, the *ali`i `ai ahupua`a* or land division chief was put in charge of governing the *ahupua`a*. The *ali`i `ai ahupua`a* appointed *konohiki* who served as the headman of the *ahupua`a* land division, and was solely responsible for the management of land, water and fishing rights. An ingenious concept, the ancient design of the *ahupua`a* system continues to be an excellent model for sustainability and land and natural resource management today. The common description that *ahupua`a* are "pie-shaped" is inaccurate. However, it is a general practice to apply triangulation of the 3-main boundary points of the *ahupua`a* when identifying its respective division lines. Additionally, *ahupua`a* do not terminate at the ocean ward boundary points. The boundary lines are purposely extended into the ocean so that it also includes the resources and minerals of the reef and ocean as well.

The *ahupua`a*, although it has a typical "pie-slice" shape, encompasses a width of land from stream to ridge, rather than the more common pattern of ridge to ridge. The generalization and clustering of traditional places to common districts (i.e. Anahola, Kapa`a, Lihu`e, etc.) has become acceptable, widespread practice in the western framework of identifying and relating to places on Kaua`i. Therein lays an example of how easily a traditional Hawaiian land area or division can be incorrectly identified, misunderstood, and misinterpreted as a significant place of its own. In contrast, Kekaha and other settlements on the Mānā plain suffered from a definite lack of fresh surface water. The *mauka* (inland) gulches had only intermittent stream flows, and water sources were primarily springs along the base of the cliffs. Therefore, descriptions of Waimea Bay and Valley do not necessarily extrapolate to the adjoining areas of the Kekaha to Mānā Region.

A major element of focus for this Ka Pa`akai analysis is based on the `āina or land that is the project area, as well as surrounding lands and natural resources that are linked to the project area. It is important to readers of this Ka Pa`akai analysis to have a basic understanding of the ancient land division system and the various words, terms and idioms associated with Hawaiian land designation and Hawaiian land use. This is especially helpful in identifying and relating to specific locations and place names that are pertinent to this study.

HISTORICAL BACKGROUND

This section presents ethnohistorical and archaeological background information for the project area. Data from the background research were compiled to create an overview of traditional Hawaiian and historic-era land use and subsistence practices. Previous archaeological research in the vicinity of the project area is reviewed and

anticipated archaeological findings are discussed.

Traditional History

The Hawaiian cultural landscape can be described through *mo'ōlelo* and *wahi pana* (significant Hawaiian place names). *Mo'ōlelo* may be myths, legends, proverbs, and events surrounding well-known individuals in Hawaiian history (Pukui and Elbert 1986:254). The following is a discussion of the mythological, traditional, and early historic accounts specific to the study area. The reader is referred to O'Hare et al. (2015) for a broader background of the *ahupua'a* of Waimea.

The project area is situated in the *'ili* of Kīkīaola, on the west, and Pe'ekaua'i, on the east. Hawaiian legends associated with this portion of Kaua'i are related to the *'auwai* (irrigation ditch) named Kīkīaola ("container [acquired] by [Chief] 'Ola" [Pukui et al. 1974:110]), which is more commonly known as Menehune Ditch, the namesake of its builders (see Kaiwi 1917:114-118). The impressive *'auwai* carried water around the cliff 24 feet above the Waimea River (Handy and Handy 1972:270) and fed a network of *lo'i* (irrigated taro terrace) below the cliff. Bennett (1931) recorded this as Site 26 (State Inventory of Historic Places [SIHP] 50-30-09-0026) during his survey of the island:

The noted Menehune ditch (Site 26) is the acme of stone-faced ditches. The problem was that of carrying the water, at a high level, around the corner of a jutting cliff. An added difficulty was the necessity of placing the base of the causeway in the river itself where it was constantly in danger of being washed away by a freshet. It is the Menehune ditch alone that has any record preserved of its construction—and that is a myth [Bennett 1931:23-24].

The legend of the *'auwai* construction was recorded by Christopher B. Hofgaard in the early 1900s for the *Kauai Historical Society* and is relayed by Bennett (Hofgaard N.D. in Bennett 1931:24). The story tells of how the Menehune (a legendary race of small people) were hired by the landowner, Pi, to prepare the stones and construct the *'auwai*.

When the time came, he went to the point where the dam was to be built and waited. At the dead of the night, he hears the noise and hum of the voices of the Menehunes, on their way to , each of whom was carrying a stone. The dam was fully constructed, every stone fitting in its proper place, and also the stone *auwai*, or watercourse, laid round the band at Kīkīaola . Before the break of day the work was completed and the water of the Waimea River turned in by the dam into the water-course and through the same on to the flats at Waimea [Hofgaard N.D. in Bennett 1931:24].

Nā Wahi Pana (Place Names, Sacred Places, and Landscapes)

A Hawaiian *wahi pana* is also referred to as a place name. "In Hawaiian culture, if a particular spot is given a name, it is because an event occurred there which has meaning for the people of that time" (McGuire and Hammatt 2000:17). *Nā*

wahi pana were passed on through the oral tradition, preserving the unique significance of each place. *Nā wahi pana* can refer to natural geographic locations, such as streams, peaks, rock formations, ridges, and offshore islands and reefs, or they can refer to Hawaiian divisions, such as *ahupua'a*, *'ili*, *mo'o* (narrow strip of land), and man-made structures, such as fishponds, reservoirs, *kula* (farm pasture), and *kauhale* (group of houses). Hawaiians named all sorts of objects, places, and points of interest. As previously mentioned, the current project area is located between the urban/suburban centers of Waimea and Kekaha.

Wahi pana are celebrated and storied places that illuminate generations of reciprocal connection and relationships between indigenous Hawaiians and the land and seascapes and natural resources that supported their existence. For well over two thousand years, native Hawaiians have held intimate bonds with their islands and special places upon them. Wahi pana continue to be integral, living components of a Hawaiian world view today.

Literally, the word "*wahi*" simply means, "*place or location*". *Pana* is defined as "*celebrated and storied*". Another definition of the word, *pana* is, "*heartbeat or pulse*".

The latter elevates and distinguishes a place as a wahi pana from any other ordinary location. Nature's forces, combined with the intangible spiritual energy source known to indigenous Hawaiians as *mana* are prevalent at many wahi pana throughout Hawai'i. Additionally, these wahi have specific stories, purpose and function that have influenced the lives of `ōiwi kānaka or Hawai'i's native people for myriad generations. Transmitted orally from generation to generation, their experiences have been preserved through *mo'olelo* (legends and stories), *mele oli* (chants), *mele hula* (dances) and *'oihana Hawai'i* (practices), maintaining memory and knowledge of places that should be honored and respected. Wahi pana are excellent teaching tools that continue to be extremely valuable today in its capacity to inform and demonstrate the cultural traditions, practices, values, and beliefs of Hawai'i's ancestors and people.

Wahi pana vary. They include but are not limited to sacred sites such as *heiau*, and ancient burial caves and burial grounds. Alluvial valley floors which were cleared for the construction of elaborate irrigated systems of *lo'i* terraces, as well as fishing grounds and surf sites in the ocean are wahi pana as well. Mountain peaks, cliffs, valleys, rivers and streams too, have emerged over time as places of cultural importance.

All discernible features in every land division, district and island were given specific names that inspired life and meaning to these places as wahi pana. Every stream, spring, beach, fishing hole, reef, promontory, winds, and rains, etc. all have names. These elements of nature provided the foundation for the creative and productive industries of the ancient Hawaiians.

The perpetuation of cultural practices and experiences held in close attachment to wahi pana and the reoccurring elemental phenomena specific to places illustrate the unique relationships of stewardship and kinship by native Hawaiians and the natural environment.

As successive generations of Hawaiians empowered these islands and their sacred and storied places with their prayers, ceremonies and labor, they left their indelible and enduring mark on the landscape; both seen and unseen. Tangible and indefinable sources of mana or spiritual power and energy unique to different places are also a result of generations of relationships that were nurtured between mankind and these special wahi or storied places. These are the multi-faceted qualities that have elevated wahi pana to the realms of Hawaiian consciousness. The land, the sea, the atmosphere and all the natural resources and phenomena that were held within each of its boundaries were considered as akua, divine and sacred. All of it was godly. The proverb below, explains the concept that Hawaiians value of the reciprocal relationships of land, environment, and man.

E mālama pono i ka ‘āina; nānā mai ke ola.

Take good care of the land; it grants you life.

On the southwest side of Kaua‘i, **Waimea** is the name of a canyon, river, and *ahupua‘a*. Waimea is literally translated as "reddish water" (*wai* – water, *mea* – reddish), and it is at Waimea where Captain Cook first landed in Hawai‘i in 1778 (Pukui et al. 1974:225). The proposed project area, located south of the ‘ili (small land division) Kīkīaola, extends across Waimea River into two *ahupua‘a*: Waimea and Makaweli.

Waimea, of southwest Kaua‘i, is the name of the canyon, land division and *ahupua‘a*. **Kekaha**, an ‘ili within the *ahupua‘a* of Waimea, is literally translated as "the place" (Pukui et al. 1974:106). **Mānā**, also in ‘ili in the *ahupua‘a* of Waimea, literally translates as "arid" (Pukui et al. 1974:144). Wichman describes Mānā, with its rich history, many stories, and legends with the following:

[A] land of sand, marsh, and heat, intermingled fresh and salt water, a land of decorated gourds and of fishermen, the home of supernatural white and black dogs, a land where confused spirits of the newly dead wandered, was not at first a desirable place to live. [Wichman 1998:158–159]

Polihale, "house bosom" is referred to as a beach, *heiau* (pre-Christian place of worship), cliff, and spring (Soehren 2013:165; Wichman 1998:162). Wichman explains

that the spirits of the dead from all over Kaua'i came to Polihale and gathered in **Kā'ana**, then followed **Hikimoe**, a stream to the *heiau* to rest. The spirits would then climb to the top of the cliff and leap into the ocean and into Pō (Wichman 1998:163).

Pōki'i, the name of the ridge and *'ili* within Waimea Ahupua'a, literally translates as "youngest brother or sister" (Pukui et al. 1974:188). **Kaunalewa** is the land section and ridge in the Waimea District and literally translates as "swaying place" (Pukui et al. 1974:95), perhaps referring to a coconut grove that was once there.

The sacred *heiau* of **Makahoa** is located *mauka* of the current study area and literally translates as "friendly point" (Pukui et al. 1974:140). According to a community member, this *wahi pana* was used for astronomy purposes such as ceremonies during the solstices. The Makahoa Heiau was described as destroyed. Bennett describes the *heiau* as Makahoe, marking its location on Niu Ridge in Kaunalewa (Bennett 1931:102).

Kahelu Heiau was once located in the Mānā area and is literally translated as "the number" or "the scratch" (Pukui et al. 1974:64). Thrum describes the *heiau* as "A heiau of platform character at the base of the hill, about 6 feet high in front, not of large size" (Bennett 1931:102).

Ho'one'enu'u Heiau is located *mauka* of the current study area on Kaunalewa Ridge. According to Pukui and Elbert (1986), "*ho'one'e*" literally translates as "to move along" (Pukui and Elbert 1986:82) and "*nu'u*" translates as "high place" (Pukui and Elbert 1986:273). The literal translation for Ho'one'enu'u may therefore be "to move along to the high place."

Kapua'i refers to a point; it literally means "the bubbling & flowing out of fresh water" (Flores et al. 1993:II-11; Motteler 1974:29). Wichman (1998:160) cites this as "where the beach makes its turn on the way to Waimea."

Nohili is the name for a swamp, ditch, point, beach area, and sand dune (Flores et al. 1993:II-14, Motteler 1974:29). Wichman (1998:160) writes, "Behind Kapu'ai is a series of large sand dunes called Ke-one-kani-o-Nohili." Pukui also refers to Nohili: "Nohili is the old name, famed in song and chant, for Barking Sands, Mānā, Kaua'i" (Pukui 1983:190 #1774). She even refers to the beach at Nohili and the strange noises it makes (Pukui 1983:269 #2468). Motteler mentions Nohili pond (Motteler 1974:30).

Keanapuka refers to the "Beach area, Canoe Landing, Fishing Village. Lit, the passage [through the beach rock and reef to the ocean]" (Flores et al. 1993:II-12). Pukui cites the canoe landing in a *'ōlelo no'eau* (Hawaiian proverb) mentioned in a later paragraph (Pukui 1983:318–319 #2910).

Moelola refers to a locality and means striped tapa (Flores et al. 1993:II-14). There is

no other mention of this place.

Kuaki'i refers to a stone *ki'i* (image) and a beach, meaning "image [of the] back, referring to the image of a person's side-view on a stone that is submerged in the ocean just off the reef area at this site" (Flores et al. 1993:II-13). An oral tale concerning this name was given in an interview done by Flores et al.:

There were a few individuals that were going from Mānā to the island of Ni'ihau in an outrigger canoe. Therefore,—in order to protect themselves from the spirits on that island—the men put a stone image carved in the shape of a person in the front of their canoe. If the spirits should attack them when they landed on Ni'ihau, the spirits would bite into this stone image and break their teeth. However, after launching their canoe from the shores of Kaua'i—their canoe overturned a short distance from the beach near the off-shore surf. After being able to only retrieve one half of this stone image, they continued on their journey to Ni'ihau. It is said that the other half is still submerged off-shore and can be seen even until this day. The shape of this stone is said to resemble the side-profile of a person's back and leg. [Flores et al. 1993:IV-66–67]

Palaiholani is a beach area, a boat landing, and a point (Flores et al. 1993:II-14). Flores et al. 1993 quote some of the elders of the area about this place. Some of the elders recall boats being launched from here (Flores et al. 1993:V-71).

Travelling from Mānā to the Nā Pali area was usually done on the ocean where the canoes and boats could be launched from beaches with unobstructed reefs and passageways such as at Palaiholani, Keanapuka, Po'oahonu, Keawanai'a, and Polihale. [Flores et al. 1993:VI-1]

Kohomahana is a beach area (Flores et al. 1993:II-12). An interview with an elder recalls Kohomahana:

The corral used to be over here [*mauka* side of road across from the Japanese cemetery at Pacific Missile Range Facility (PMRF)]. And used to get a fence running straight. That's Kohomahana [toward the beach] right over there where that stuff stay. That's Kohomahana fence. When we used to come to go that side [toward Polihale], this was the best way to go—no more mud. This place when rain, you never can make it to go Polihale. Never. You got to come inside here and then you stay on that sand to go Polihale. This place [was] all swamp. But plenty fish those days [in the swamp]! [Flores et al. 1993:V-59]

Kawai'ele is a pond (Motteler 1974:30). It is also referred to as a beach area point, fishing grounds, ditch, and pumping station (Flores et al. 1993:11-12).

Waiokapua, also known as Major's Bay or Waiokapua'a, is a beach and bay area as well as a point meaning water of the pig (Flores et al. 1993:11-17; Motteler 1974:29).

Waiolono is a beach area and point, meaning water of Lono (Flores et al. 1993:11-17).

Kokole refers to a point and lighthouse, meaning any food crop stunted by weeds or drought (Flores et al. 1993:11-12).

Waimea Ahupua'a is composed of several regions that are very different in climate and terrain. These differences essentially dictated the kinds of resources that were available, and hence had much to do with the way the *ahupua'a* was settled by prehistoric Hawaiians. The well-watered valley and delta of the Waimea River were ingeniously developed and engineered for wetland agriculture and represent the epitome of the typical Hawaiian and Kaua'i-type valley settlement (Handy and Handy 1972:393–397).

In contrast, Kekaha and other settlements on the Mānā plain suffered from a definite lack of fresh surface water. The *mauka* gulches had only intermittent stream flows, and water sources were primarily springs along the base of the cliffs. For this reason, this portion of the report will focus mainly on the specific area of Kekaha and not attempt to cover the entire *ahupua'a* of Waimea.

Although the Boundary Commission officially surveyed and set the bounds of the *ahupua'a* of Waimea in 1875, as generally described previously, there are a few sources which contradict this, maintaining that Kekaha was a separate *ahupua'a*. Kīkīaola was a smaller land division ('*ili*') sometimes regarded as a subset of Kekaha and/or Waimea. Our earliest (1885) identified detailed map of the project area vicinity indicates that a 565.56-acre coastal portion of the 1,123-acre Kīkīaola '*ili*' was awarded as Grant 532 to George B. Rowell. Significant habitation activity is indicated approximately 500 m to the east of the project area (toward Waimea Town), but no development is shown in the immediate vicinity of the project area. Testimony in the mid-1800s that supports the native land claim of R. Naumu refers to "Kekaha *ahupua'a*" in describing the properties (Native Testimony, n.d.:11:15).

Valdemar Knudsen, an early haole (non-native) settler in the area, also refers to the "*ahupua'a* of Ketaha [sic]" in a letter to John Dominis, Commissioner of Crown Lands (Knudsen 1866:3). A late nineteenth century map (Imlay 1891) shows a pie-shaped land section labeled "Kekaha," indicated by a dotted line boundary that encompasses the area from the top of Waiaka ridge to the shoreline.

Handy and Handy (1972:427) imply that Kekaha, as well as Polihale and Mānā, were

individual ahupua'a of Waimea, though the reasoning for this is not given. However, the native land claim of Elia Lihau for the land of Wai'awa, just west of Kekaha, concedes that this area was indeed part of the ahupua'a of Waimea (Native Register 1848:9:244).

Admittedly, it is unusual for a single ahupua'a to occupy such a large percentage of the land area of a major Hawaiian island. It could easily be argued that the comparatively low agricultural productivity of the Mānā plain, due to the scarcity of water, is the basis for its inclusion in Waimea. However, the same cannot be said for the well-watered valleys of Nu'alolo and Miloli'i, both of which could easily support typical and self-contained valley settlements of perhaps small but stable populations.

It could also be speculated that Waimea, being one of the two areas of the island that traditionally was the domain of the high chiefs (the other being Wailua), commanded the resources of the large upland region of Kōke'e and Alaka'i, among them the large koa trees out of which the hulls of canoes were hewn, and forest birds which supplied the feathers for cloaks, capes, and other items associated with the *ali'i* (chiefly class). It is quite possible that at one time Waimea was divided into several smaller ahupua'a, perhaps before the Māhele, or even during the pre-Contact period.

Pukui et al. (1974:106) give the literal translation of Kekaha as "the place." However, Handy and Handy's (1972:54) definition gives more insight into the description of the place name: "Kaha was a special term applied to areas facing the shore but not favorable for planting. Kekaha in Kona, Hawaii, was one so named, and Kekaha on Kauai another."

Kelly (1971:2) describes Kekaha on the island of Hawai'i as *'āina malo'o* or "dry land," and indeed the same could be said of Kekaha, Kaua'i, if one considered the area's low annual rainfall and lack of permanent streams. Kekaha, however, was neither void of water nor of a pre-Contact population that made use of the local resources.

Kekaha Ahupua'ā, according to the Ulukau database (www.ulukau.com), is "One of 9 Crown lands, formerly an ah the 'okana of Waimea. Not named in Mahele Book" (Pukui et. al. 1974, Kelly (1971:2).

The name, "Kekaha," can be interpreted to mean "dry land" or an area near the shore that is not favorable for planting. The Kekaha region of Kaua'i has low annual rainfall and no permanent streams. Despite the low rainfall, early visitors from Oahu in the late 1700s indicate that the Kekaha area was well-populated. Inhabitants manufactured cloth from *wauke* (Mulberry) and grew taro and sugarcane in the swampy ground. In the mid-1800s, Land Commission Awards (LCA) requests show

that there was both dry land and irrigated agriculture occurring in the region along with salt beds and at least one fishery. Valdemar Knudsen settled in Wai'awa in 1854. His agricultural and pastoral lands covered much of the region and eventually he had control over the entire district. Knudsen made use of local labor by requiring residents to work for him three days each month as rental payment.

A Chinese immigrant, Leong Pah On, began growing rice commercially in the 1860s in the drained swamplands of the area, eventually cultivating 600 acres throughout Mānā, Kekaha, and Waimea for rice production. Pah On imported laborers from China to work the rice fields, presumably creating a significant Chinese population in the area. Rice cultivation continued until 1922 when the Kekaha Sugar Co. assumed ownership of the lands. The Kekaha Sugar mill closed in 2000 and the DLNR managed these lands until ADC was awarded them by the state in 2003.

According to Ms. Christina Faye, Kekaha did not exist prior to the plantation which was established prior to the *mahele* (Pers. Comm.). As stated above, Pukui et al. (1974:106) provides the literal translation of Kekaha (Ke-kaha) as "the place" and, according to Ms. Faye, "the place" refers to the location of the sugar mill. According to Faye, the name Kekaha was used for the region because it was "the place" where the plantation was located. All mention of a village at Kekaha dates to after the establishment of the plantation, except for the village of "A-Tappa" in the 1798 Beresford account.

MO`OLELO: STORIED ORIGINS & TRADITIONAL PLACES

Mo`o Ōlelo is the succession of talk; or the continuation and perpetuation of oral histories and traditions that were passed on in story and chant forms. It is from this that the word mo`olelo is derived - stories, tales, myths, legends, and chronicles; records of information that was storied in the memories of Hawai'i's ancient people. Another term that is used is *kā`ao* - oral traditions and myths that represent the cultural truths, wisdom, and experiences of *kūpuna*.

Throughout the Ka Paakai analysis, examples of traditional Hawaiian mo`olelo are presented to link the reader with traditional places, beliefs and practices associated with the ancestral worldview of Hawai'i's indigenous Hawaiian people. Mo`olelo and *kā`ao* are not viewed as fanciful fairy tales or fictional stories woven to entertain. Laden with skillful use of metaphors and poetic expressions, they are invaluable sources of information that have preserved a sense of consciousness and inner connection of the *kānaka `ōiwi* with his multidimensional world.

It is estimated that the Hawaiian island chain was first settled upon more than 2000 years ago by Polynesians who arrived from Nukuhiwa (also pronounced

Nu`uhiwa) or the Marquesas Islands. Early migration chants and oral traditions provide insight to the discovery and settling upon these islands. One story tells of a man named Hawai`iloa who is credited with first discovering Hawai`i when he set out from a land called, "Ka `āina kai melemele a Kāne, (*The land of the yellow sea of Kāne*) on a long fishing expedition. He sails back to his homeland and returns with his wife and followers, including eight navigators. Because his wife is the only female on this return journey, it is said that all Hawaiians are descended from him. The largest island in the chain - Hawai`i, is named in his honor, while the additional islands of Kaua`i, Maui and O`ahu are named after his children.

From Hawai`iloa, the heritage of long, distant voyaging, non-instrument navigation and way finding is established using phenomenal skills of keen observation and comprehension of stars and constellations in the heavens. He is the primal ancestor of the Hawaiian people who also introduces the astronomical wisdom of the atmosphere and its phenomena, including the weather and climate. He is also an expert on the ancient sciences associated with the physical, geological and biological features of the oceans.

From the union of Papahānaumoku and Wākea - preeminent mākuā or parents of the Hawaiian universe is born Hāloa...our very connection to kalo, the sacred staple that has fed and nourished the Hawaiian people since time immemorial.

The genealogical ko`ihonua of Hawai`i's ancestral Earth Mother and Sky Father bring forth the paradigm that bind generations of Native Hawaiian families to this storied progenitor. Through the traditions of Papa and Wākea, the energy of the Hawaiian family system that includes both nuclear and extended `ohana is born. From this legacy comes the skills and intelligence of the mahi`ai - the native planter that tends to Hāloa, the taro plant and elder brother that continues to sustain families today. Indigenous agriculture and cultivation practices are dependent on acquiring intimate knowledge of water cycles, moon phases and weather phenomena. There is a constant nurturing of familial relationships to land, environment, and elements of the Hawaiian universe.

The epic saga of Pelehonuamea describes in detail the journey of the fire clan aboard the mythical wa`a (canoe) named Honuaciākea. Their quest is to search for a new fire source and a home from which to generate sources of life. It too, is a story of genealogy and migration, establishing cyclical movements of life upon these lands. The sun is a fundamental and reoccurring theme of substance that is essential to physical, spiritual, and intellectual wellbeing.

The chants of the mo`olelo of Pele and Hi`iaka provide detailed accounts that speak to the importance of relationships that the indigenous Hawaiian hold in high esteem with `ohana or familial relationships; not just with mankind, but with their environment as well as with that of the atmosphere and the elements. This

is a profound expression of connection that taps into the inner sources of life and healing. Through this ancient oral tradition, we are provided with formulas and procedures of Hawaiian protocols and ceremonies that are still applicable for the native Hawaiian in the 21st century.

These are just a few examples of the incalculable volumes of "unwritten literature" - primal sources of Hawaiian chants and the impressive accounts within them chronicle centuries of Hawai'i's fascinating history and culture. Embedded in the narratives of these ancient traditions are valuable details that provide us with a deeper understanding and a closer look at the worldview, life ways and experiences of Hawai'i's people prior to the turbulent changes that unfolded in post-contact times.

The significance and merit of mo`o `ōlelo - what an ingenious tradition of transmitting wisdom, knowledge, history and more through the succession of the voice conveyed through the telling of stories and the perpetuation of the art form of chants and the oral traditions that inspire the essence of indigenous Hawaiian cultural practices and beliefs.

Ancient Chants that Extol the Land & Environment as Relations

References and examples of chants from Hawai'i's ancient repository of oral and literary traditions have been included in this Ka Pa`akai analysis to elaborate upon the traditional beliefs and cultural practices of native Hawaiians. These practices continue to this day. Mele oli, mele pule, mele hula and mo`olelo provide authentic examples of this continuing practices. They also speak to the relationships held between *nā kānaka* - mankind, their environment, and their gods.

The ancients viewed facets of nature such as the heavens and earth as a godly and divine pairing of male and female procreative energies. Wākea - the broad, wide expanse of the atmosphere is male. The moisture that gathers and collects in the clouds and sky produces rain, which is also a male force. The earth is female, and is known to Hawaiians as Papahānaumoku, or literally, *Papa that gives birth to islands*.

Adapted from Hawaiian Antiquities by David Malo (p.243) the mele ko`ihonua or genealogical chant on the following page speaks to the birthing of the Hawaiian Islands. Wākea - the male, is embodied in the expanse of the atmosphere and the heavens. Papahānaumoku - the female is Papa who gives birth (*hānau*) to islands. This ancient chant was revived into modern day cultural practice as a means of expressing native Hawaiians' familial relationship with the natural world and the `āina or land. Papa and Wākea - Sky Father and Earth Mother, along with their offspring, Ho`ohōkūlani are the divine characters and procreative

forces that are also revered for the gift and traditions of the sacred kalo or taro plant. They are viewed and respected as ancestral progenitors of native Hawaiians.

‘O Wākea noho ia Papahānaumoku

*Hānau ‘o Hawai‘i, he moku Hānau
‘o Maui, he moku*

Ho‘i hou ‘o Wākea noho ia Ho‘ohōkūkalani Hānau

*‘o Moloka‘i, he moku
Hānau ‘o Lāna‘i, Ka ‘ula, he moku*

*Līlī ‘ōpū punalua ‘o Papa iā Ho‘ohōkūkalani ho‘i hou
‘o Papa noho iā Wākea*

*Hānau ‘o O‘ahu, he moku Hānau
‘o Kaua‘i, he moku Hānau ‘o
Ni‘ihau, he moku He ‘ula a‘o
Kaho‘olawe!*

Translation:

Wākea lived with Papa, begetter of islands

Begotten was Hawai‘i, an island
Begotten was Maui, an island

Wakea made a new departure
And lived with Ho‘ohōkūkalani

Begotten was Moloka‘i, an island
Begotten was Lāna‘i, an island

The womb of Papa became jealous at its partnership with
Ho‘ohōkūkalani Papa returned and lived with Wākea

Begotten was O‘ahu, an island Begotten
was Kaua‘i, an island Begotten was
Ni‘ihau, an island A red rock was
Kaho‘olawe!

The significance and understanding of *mana* as physical, mental, and spiritual nourishment is preeminent in the customs of old Hawai‘i. It is essential to the health and wellbeing of the family system and community.

Every fragment of Hawaiian history and culture was documented to memory and orally transmitted from one generation to the next via chants. The births of gods, mankind, celebrated chiefs, and more were often the subjects of lengthy, detailed chants.

Amongst them were *mele mo`okū`auhau* or genealogy chants, which are still considered to be one of the most prized family possessions of the native Hawaiian people. Kūpuna or elders were careful to designate individuals in the following generations of their families to be groomed as stewards of the `ohana's genealogy. All knowledge was committed to memory, which included the names, unions and offspring in the family's ancestors. Mo`okū`auhau hold us accountable to our ancestors. It strengthens our cultural identity and inspires the mana of our being.

However, mo`okū`auhau were not limited to families of humans only. Literary accounts of mo`okū`auhau also included family lines of many other nature forms as well. This included mountains, sharks, water sources and elements of the natural world.

HAWAIIAN RELIGIOUS & CULTURAL PRACTICES, GATHERING RIGHTS IN THE WAIMEA AHUPUA`A

Field investigations of the project area resulted in no evidence or findings of significant plants or natural resources that are associated with Hawaiian gathering rights for subsistence, cultural or religious practices. The project area has non-native vegetation.

Past history of land use has easily obliterated any cultural or religious sites that may have previously existed in the area.

Perhaps it is appropriate to study the origin of the Hawaiian language as it relates to place names. Because of the obeisance that these ancient people had for the awesome, primeval forces of nature, we are the beneficiaries of a fabulous collection of beautiful and imaginative names wherever we go in modern Hawaii. Through the modernization of these islands, some of the lore of this language escapes our grasp because the origins have faded into antiquity.

An exhaustive search of Hawaiian legends and myths in print produced some references to Waimea or other places in the *ahupua`a*. There are no surviving legends or traditional accounts specific to the project parcel, however, Kīkīaola is mentioned in one Hawaiian legend regarding the *heiau* (pre-Christian place of worship) called Howea in Waiawa.

Howea was the principal heiau of that land. Mr. Knudsen now owns the land that the heiau stood on. This is an ancient heiau. I do not know which chief built it but guess it may have been either Kaeo or his grandfather. I do not know the name of the priests who officiated in it. [HEN VI, Hms 43, informant Kanakahalela 1885]

[...] these are the things of which this heiau was well known in the olden days. There was a man named Ola whose mother was Kahapula. At one time, long ago, there was a battle fought between those of Waimea and those of Kekaha. In this battle, Ola, one of Waimea's warriors was taken captive by (the warrior of) Kekaha and was taken to the heiau with the idea that he was to be killed next day. But on the night before he was to be sacrificed, Kahapula, his mother, heard of it while she was in the uplands of Mahaikona, Makaweli. She took two kukui nuts and juggled with them as she went straight down to Waiawa where the heiau stood. Her son was held captive within. As his mother went along casting up her kukui nuts, she chanted a song as was customary in the olden days. This game was called kimo puili and this was the chant she used [...]

Part I. Two days they came in,

Two days remained away, etc., etc.

Part II. That is one; that is two;

That is three; that is four;

Neither side has won the game

They clashed, clashed (till the noise) reached the skies

The fifth was indistinctly heard

The sixth led up to the seventh

The eighth is for Kamalalawalu (a chief of Maui)

The ninth ran away

ran crookedly into a circle

I have completed a fiery circle, once.

[...] thus went the old woman till she passed the waters of Waimea, and on to the plains of Kekaha till she reached the plain of Waiawa. She went up outside of the heiau. The kukui nuts that she juggled with did

not fall out of her hand once so she knew that this was a good omen and she would have no trouble in going into the *heiau*. She felt encouraged and went in to get her son. When she entered she saw that everyone had fallen asleep and only her son, who was bound with ropes, was awake. She untied the ropes to free him and together they went out and ran away to hide themselves from the guards. When the guards awoke, they found their prisoner gone and they were disappointed indeed.

The mother and son went home in peace. The son made a walled ditch for the purpose of raising water to a higher elevation. It was a good deed for the water still flows in that ditch to this day. That place is called Kīkīaola . [HEN #15]

Wichman (2003) explains some points of a different version of this legend, however, he does not mention Kekaha. In his version, the heirs of a chief of Kaua'i named Kū'alu-nui-paukū-mokumoku kept dying, and the chief suspected that his *kahuna* (priest), who wished to return to the mythical homeland of the Hawaiian people, was responsible. To secure an heir, he married a woman named Kahāpula, who became pregnant. He then accused his right-hand man Pi'i of being the father and banished both to a remote valley in Waimea canyon. He gave Kahāpula a red *malo* (loincloth) and a *lei 'ōpu'u* (whale tooth pendant on a cord of human hair), and told her to give them to his son, who would present them as proof of his identity to his father when he reached adulthood. He also told her to plant a *kukui* nut near her new home. Kahāpula soon gave birth to a son, which along with the *kukui* tree, soon grew.

When the chief judged that his son was old enough to soon come to him, he ordered the construction of a *heiau* in Wai'awa Valley. He also ordered that a fish trap be built, so that enough food would be available for a celebration. The mischievous son of Kahāpula took some of the fish from this fish trap, but since the fish trap had a *kapu* (tabu) set on it, he was apprehended, and it was decided that he would be the human sacrifice to dedicate the new *heiau*. He was held prisoner at the new *heiau* in Wai'awa.

His mother, Kahāpula consulted Pi'i, who told her that she must pick six *kukui* nuts from the tree near the house and juggle the nuts as she walked to Wai'awa. He told her if she dropped a nut, her son would die, but if she caught them all, then his life would be spared. The road to Wai'awa was rocky and difficult, but the inhabitants went before Kahāpula, clearing her way by moving rocks and branches. She reached Wai'awa, released her son, and clothed him in the red *malo* and *lei 'ōpu'u*. When Kū'alu-nui-paukū-mokumoku and his *kahuna* came to the *heiau*, the boy proclaimed that he was the chief's son. The *kahuna*, in anger, threw a spear at the boy, who casually tossed it aside. Since the *kahuna*

had defiled the temple, he stabbed himself, and instead became the sacrifice for the *heiau*. The chief named his son "Ola", meaning "life," and named the *heiau* "Hau-ola", meaning "life offering" or "dew of life" (Wichman 2003:7-9).

A few *'ili* on Kaua'i had an associated wind and In the Legend of Kūapāka`a, the hero who controls the wind gourd of La`amaomao chants the winds of Kaua'i. For the project area, the winds are as follows:

The aikoo is of Nualolo *He aikoo ko Nualolo*,
 The kuehukai is of Milolii, *He kuehu kai ko Milolii*,
 The puukapele is of Mana, *He puukapele ko Mana*,
 The moeahua is of Kekaha, *He moeahua ko Kekaha*,
 The waipaoa is of Waimea, *He waipaoa ko Waimea*,
 [The kapaahoa is of Kahana], *He kapaahoa ko Kahana*,
 The makaupili is of Peapea, *He makaupili ko Peapea*,
 The aoaoa is of Hanapepe, *He aoaoa ko Hanapepe*,
 The nulu is of Wahiawa, *He nulu ko Wahiawa*,
 The kuuanu is of Kalaleo [Kalāheo], *He kuuanu ko Kalāheo*,
 [Fornander 1918:5:94-97]

The chief Ola is associated with several other sites in Waimea Ahupua'a, including Hau'ola Heiau (built by his father near Kekaha), Ahululu Heiau at the foot of Pu'ukapele Crater, and Kīpapa-a-Ola, a trail paved with sticks that crossed the Alaka'i Swamp and connected Kōke'e with Wainiha Valley on the island's north shore (Beckwith 1970:328-229). Any attempt to date these sites or the Menehune Ditch even roughly through genealogical means would probably be fruitless. Although Ola is a very popular *ali'i* in legends, his name cannot be found in any surviving Kaua'i genealogy (Luomala 1955:132).

When the Hawaiian goddess, Pele, traveled to Kaua'i, she recited the winds of Kaua'i to her lover Lohi'au and his people. Several place names, generally names of *'ili* and other place names within the *ahupua'a* of Waimea, Makaweli, Hanapēpē, Wahiawa, and Kalāheo are found.

The winds of Kaua'i blow, urged on...	<i>A pa a noua ka makani o Kaua'i...</i>
Kaua'i is what I see and know	<i>'O Kaua'i ka'u i 'ike</i>
A land where the winds assemble...	<i>He 'āina na ka makani i ho'olulu ai...</i>
Pōki'i has a Lamalamapū'ilikai wind...	<i>He Lamalamapū'ilikai ko Pōki'i...</i>
'Āina'ike has a Mau'umae wind...	<i>He Mau'umae ko 'Āina'ike...</i>
Kapa'eli has a Holonaku wind	<i>He Holonaku ko Kapa'eli</i>

Kekaha has a Moeahua wind	<i>He Moeahua ko Kekaha</i>
Pu'upu'upa'akai has a Moehau wind	<i>He Moehau ko Pu'upu'upa'akai</i>
Pāwehe has an Ulumano wind	<i>He Ulumano ko Pāwehe</i>
Pa'ena'ena has a Lapawai wind	<i>He Lapawai ko Pa'ena'ena</i>
Waimea has a Ho'okomowaipao wind	<i>He Ho'okomowaipao ko Waimea</i>
Kīkīlaola has a Kiuwai'ula wind	<i>He Kiuwai'ula ko Kīkīlaola</i>
Koai'e has a Wai'alae wind	<i>He Wai'alae ko Koai'e</i>
Mokihana has a Kumulipoho'ouluali'i wind	<i>He Kumulipoho'ouluali'i ko Mokihana...</i>
Waiahulu has a Waikea wind	<i>He Waikea ko Waiahulu</i>
Makaweli has a Pūnohu'ula wind...	<i>He Pūnohu'ula ko Makaweli...</i>
Kahana has a Kapāhoa wind	<i>He Kapāhoa ko Kahana</i>
Pe'ape'a has a Pilialoha wind	<i>He Pilialoha ko Pe'ape'a</i>
Kekupua has a Punohu'ula wind	<i>He Pūnohu'ula ko Kekupua</i>
Mahinauli has a Mo'oholoawāwa wind	<i>He Mo'oholoawāwa ko Mahinauli</i>
Pu'uopāpa'i has a Kula'imano wind	<i>He Kula'imano ko Pu'uopāpa'i</i>
Manuahi has a Hulikīlele wind	<i>He Hulikīlele ko Manuahi</i>
Ka'awanui has an Uhao'ōwili wind	<i>He Uhao'ōwili ko Ka'awanui</i>
Kawaiki has a Palai wind	<i>He Palai ko Kawaiki</i>
Mokupapa has an 'Ololīawāwaholo makani wind	<i>He 'Ololīawāwaholomakani ko Mokupapa</i>
Hanapēpē has an 'Aoa wind...	<i>He 'Aoa ko Hanapēpē</i>
Ukula has a Wai'ono wind	<i>He Wai'ono ko Ukula</i>
Kāne'ōhi'a has a Pu'ukapu wind	<i>He Pu'ukapu ko Kāne'ōhi'a</i>
Kalae has a Holoholokula wind	<i>He Holoholokula ko Kalae</i>
Wahiawa has an Unulau wind...	<i>He Unulau ko Wahiawa...</i>
Kalāheo has a Kiuanu wind...	<i>He Kiuanu ko Kalāheo...</i>

Pele and Her Sisters

There are many legends of the Hawaiian volcano goddess Pele. Pele and her sisters left their ancestral home of Hawai'i (the Marquesan Islands) and journeyed to Hawai'i. On Kaua'i, Pele's siblings, her sisters Kapo'ulakina'u (Kapo), a brother Kahuilaokalani (Kahuila), and the youngest sister, Kapokūlanimoeha'unaiki (Moeha'una) landed on the shores of Mānā, an 'ili of the western section of Waimea. A handsome chief, Limaloa, with a feather cape greeted the travelers. Limaloa fell in love with Moeha'una and begged her to stay with him in Mānā as the other siblings traveled onward east toward Waimea village. The group stopped on a ridge, missing their sister, and looked back toward Mānā. To commemorate the spot, Kahuila suggested they name the ridge Pōki'ikauna, meaning "the yearning for the little sister." This may be a reference to the ridge called Pōki'i (Wichman 1991:32–38).

When Pele's beloved sister, Hi'iaka, and her companions were sailing in a canoe past the shore of Waimea, she called the following chant:

'O a'u mau wai aloha 'elua lā	My two beloved waters
'O ka wai 'ula lā a me ka wai kea	Water running red and water running white
Ke wilia maila e ka makani	Swirled together by the wind
'O a'u mau makani aloha i ka pali o Kīkāola	My beloved winds on the cliffs of Kīkāola
'O Kaho'okomowaipao me Kiuwai'ula	The Kaho'okomowaipao and the Kiuwai'ula
E keuhu nei i ke one kahakai lā	Stirring up the sand there at the shore
Aloha wale Papa'ena'ena lā	Beloved indeed in Papa'ena'ena
I ka mālie a'e ho'i ē.	There beyond, in the calm.

[Hoomaliemahie 2008a:252, 2008b:236]

This chant also refers to Waimea and the land of "two beloved waters." An 'ōlelo no'eau, a Hawaiian proverb, explains this reference.

Ka wai 'ula 'ilahi of Waimea

The red sandalwood water of Waimea.

This expression is sometimes used in old chants of Waimea, Kaua'i. After a storm Waimea Stream is said to run red. Where it meets Makaweli Stream to form Waimea River, the water is sometimes red on one side and clear on the other. The red side is called wai'ula'ilahi. [Pukui 1983:179 #1662]

Hawaiians gave names to the winds, rains, surf, and seas in each area. The wind of Waimea was *Waipao*, which means "wind-scooped" (Kent 1986:443). A storm in the northeast portion of Waimea was called *'E'elokoā* (meaning "stormy") (Pukui and Elbert 1986:37). A chilly rain and wind of Waimea was called *Kīpu'upu'u* and was used as a metaphor in some chants as a buffeting or ravaged feeling, as follows:

*Hole **Wai-mea** i ke ahe a ka makani, hao mai nā 'ale a ke Kīpu'upu'u,*

Wai-mea is rasped by the blowing of the wind, billows of the Kīpu'upu'u wind ravage.

Kū i ka Kīpu'upu'u, buffeted by the Kīpu'upu'u [of hurt feelings].

[Pukui and Elbert 1986:155]

Possibly the first descriptions by Westerners of a surfboard, used as a paddleboard in this case, were made either off the Waimea shore of Kaua'i or off the island of Ni'ihau. Charles Clerke, an officer sailing with Captain Cook in 1778, reported seeing the following:

a thin piece of Board about 2 feet broad & 6 or 8 long, exactly in the Shape of one of our bone paper cutters; upon this they get astride with their legs, then laying their breast along upon it, they paddle with their Hands and steer with their feet, and gain such Way thro' the Water that they would fairly go round the best going Boats we had in the two Ships, in spight [sic] of every Exertion of the Crew, in the space of a very few minutes. [Beaglehole 1974:675]

William Ellis, the surgeon's mate of the expedition, also saw surfboards, this time definitely at Waimea, Kaua'i. He described these as "very light flat pieces of boards, which we called sharkboards, from the similitude the anterior part bore to the head of that fish" (Ellis 1783:179).

Mary Kawena Pukui of the Bishop Museum made a list of surfing spots mentioned in Hawaiian oral traditions. For Waimea, she found references for the surfs *Kaua* (meaning "war"), *Kualua* ("twice"), and *Po'o* ("head") (Finney and Houston 1996:31). John Papa 'I'i, the early Hawaiian historian, had a similar list of Kaua'i surfing spots:

The surf of Kamakaiwa is in Kapaa, Kauai, and so is the surf of Kaohala and one that runs to the sand of Wailua. Others are the surfs of Poo, Koalua, and the one that runs to the mouth of the sand-bottomed stream of Waimea, and the surfs of Manalau is in Waioli. ['I'i 1959:135]

The Menehune and Kikīaola Ditch

Hawaiian legends concerning Waimea focus on the engineering feats that made the agricultural abundance of the *ahupua'a* possible. Especially noteworthy are the legends narrating the origins of the cut stone-lined 'auwai (irrigation ditch) called Kīkīaola, popularly known as the "Menehune Ditch." On a portion of the Thrum and Evans map, the 'auwai is also labeled Pe'ekaua'i, meaning "hidden Kauai." Wichman (1998:9) says the original settlers named the farmland in this area Pe'e Kaua'i after the name of their ancient homeland. In the Māhele land records, Pe'ekaua'i is listed as the name of an 'ili near the Waimea coast and along the west bank of the Waimea River. The Pe'ekaua'i 'auwai watered the plain west of the Waimea river, and its most notable section transported the water along the face of a cliff, some 20 ft above the river, by means of an aqueduct constructed of intricately fitted, cut and dressed stones (Bennett 1931:23, 105–107).

Martha Beckwith (1970:329–330) associates the name Kīkīaola (meaning, "container acquired by 'Ola"; Pukui et al. 1974:110) with three versions of the legend of Ola, an *ali'i* (chief) of Waimea. In one version (Rice 1923:45), Ola, "desiring to bring water to the taro patches of the Waimea flats . . . summon[s] the Menehune people [who] each bring a stone and the watercourse (Kiki-a-Ola) is laid in a single night." In another version (Thrum 1908:110–111), Kīkīaola is not the name of the watercourse itself: "Pi is the chief of Waimea who gets the Menehune to construct for him a dam across the Waimea river and a watercourse leading from it to a place above Kiki-a-ola."

Thrum says of the *menehune*,

Their dwelling place was in the mountains, above Waimea, near, perhaps, to a place known as Waineki. The watercourse of Kīkīaola, above the Waimea river, was built by this race of Menehunes. The chief that encouraged this race of Menehunes to the task rejoiced greatly at hearing of and seeing the completion of the watercourse of Kīkīaola, to benefit the laboring people residing at *Paliuli*, and the water flowing down its course to enable the taro to grow thriftily for their sustenance. [Thrum 1923:214, 216]

Thus, Thrum identifies the land east and adjacent to the Kīkīaola Ditch as the land ('ili) of Pali'uli, a Hawaiian word for "green cliff." In the third version (Luomala 1951:23), "Kiki-a-ola is the chief of Waimea" who "seems to be the sacrifice to be offered" at the completion of the dam and watercourse of Waimea by the *menehune*.

Menehune, a Tahitian term meaning "commoner," came to refer to a mythical race of small industrious people who were alleged to have built many of the fishponds, irrigation systems, and *heiau* on Kaua'i (Mills 1996:63). The *menehune* overseer of the Pe'ekaua'i 'auwai project was named Papa'ena'ena, which according to an 1891

map, is the place name of the Waimea shore near the old wharf. Papa'ena'ena means "red, hot, lowland," according to information on place names collected by Francis Gay in 1873 (Gay 1873:33). In Rice's version, Papa'ena'ena is the name of a stone on the Waimea shore. "At one time the Menehune hollowed out a huge stone, and carried it to Waimea, where the head Menehune fisherman used it as a house.

It was called Papa'ena'ena, from his name. He sat in this house and watched his men fish" (Rice 1923:36). Wichman (1998:8) also states this is the stone Papa'ena'ena sat on to direct his *menehune* workers when they built the irrigation ditch, Kīkāola, which means "container acquired by Ola." The chief Ola is associated with several other sites in Waimea Ahupua'a, including Hau'ola Heiau (built by his father near Kekaha), Ahululu Heiau at the foot of Pu'ukapele Crater, and Kīpapa-a-Ola, a trail paved with sticks that crossed the Alaka'i Swamp and connected Kōke'e with Wainiha Valley on the island's north shore (Beckwith 1970:328–229). Any attempt to date these sites or the Menehune Ditch even roughly through genealogical means would probably be fruitless. Although Ola is a very popular *ali'i* in legends, his name cannot be found in any surviving Kaula'i genealogy (Luomala 1955:132).

LAND COMMISSION AWARD CLAIMS KEKAHA AHUPUA`A AND ASSOCIATED KNOWLEDGE

Land Commission Awards and Mahele Awards are Sources of Title adjudicated by the Land Commissioners to claimants. Mahele Awards are Sources of Title specifically issued to those chiefs who received their lands from the king but failed to present their claims before the Land Commission and thus received titles to their lands from the Minister of the Interior. Kamehameha Deeds are Sources of Title to Crown Lands that Kamehameha III, IV and V conveyed. Minister of Interior Deeds were Sources of Titles that conveyed lands from the government to private individuals by the Minister of the Interior during the Kingdom of the Monarchy. Patents - both Royal and Land - were issued on the awards as evidence that the Government's right to commutation therein was satisfied. An award together with a patent perfected the awardee's title to the property. Grants by Royal Patent and Land Patent were Sources of Title deriving from the sales of government lands. The term "Royal" indicates that the document was issued during the Hawaiian Monarchy (up to 1893). The Land Patent or Land Patent Grant thus means the document was issued after the monarchy.

The Kuleana Act of 1850 allowed *maka'āinana* (Native Hawaiian commoners), in principle, to own land parcels at which they were currently and actively cultivating and/or residing.

The Boundary Commission officially surveyed and set the bounds of the *ahupua`a* of Waimea in 1875; Native claims for land made to the Board of Commissioners to Quiet Land titles in 1848 also shed some light on to settlement and land use in the area during the early historic period.

Traditional Land Use

Much of what is known of traditional land use comes from ethnohistorical accounts of visitors to Waimea beginning with Captain James Cook. Archaeological evidence is limited due to historic and modern activities, such as commercial sugarcane cultivation and development of Waimea Town (Mills 2005:49). Of the few radiocarbon dates for this portion of Kona District, the earliest was yielded from Waimea Town and ranges from A.D. 1000-1275 (Hammatt and Ida 1993 in O'Hare et al. 2015:51). The following section presents several descriptions of Waimea during the late eighteenth and early nineteenth centuries.

Captain James Cook anchored in Waimea Bay on January 20, 1778. After a visit to land, Cook and Lieutenant James King recorded land descriptions in their log. King noted roughly 60 grass thatched houses west of the Waimea River along the coast and around 40 more inland (Cook 1813:205; Handy and Handy 1972:408). It was estimated that more than 2,000 individuals greeted their arrival (Rickman 1781:217). Cook wrote of the *lo`i*:

The greatest part of the ground was quite flat, with ditches full of water intersecting different parts, and roads that seemed artificially raised to some height. The interspaces were, in general, planted with taro, which grows here with great strength, as the fields are sunk below the common level, so as to contain the water necessary to nourish the roots. This water probably comes from the same source, which supplies the large pool from which we filled our casks [Cook 1813:187].

According to Hawaiian tradition, Cook's landing site was seaward of the native village on a beach of fine black sand called Luhi or Keoneluhi (Joerger and Streck 1979:8). Luhi means "tedious or tired," as in the saying, *Ho'i i ke one o Luhi* ("Go back to Tired Beach"). This saying refers to one returning to an unpleasant task (Pukui et al. 1974:135). A *kama'āina* of Waimea, quoting her father, relates that the beach was named this because warriors used the area for training, running on the sand to strengthen their legs, which made them very tired and weary (Joerger and Streck 1979:8). The *kama'āina* reported the ancient landing site of Waimea was midway between the river mouth and the pier; this may also have been the landing area for Cook's men.

The first contact began badly. A small landing party was sent in a small boat to

reconnoiter the anchorage. As it landed, it was surrounded by about 100 Hawaiians; some jumped in the boat and one man grabbed a boat hook. Cook's Third Lieutenant John Williamson hit the man with a rifle butt, and when the man tried to hit him, Williamson shot and killed the man. Like the first visit to the Hawaiian Islands, Cook's last visit was not so good for him.

When British Captain Nathaniel Portlock arrived at Waimea in 1786, Kā'eokūlani, who had been ruling regent of Maui and Moloka'i, ruled Kaua'i and Ni'ihau with his wife Kamakahelei. Their son, Kaunaloa, was later the last *ali'i nui* of Kaua'i and Ni'ihau before Kamehameha I unified the Hawaiian Islands (Bingham 1855:42; Kuykendall 1938:39). While Wailua was the main royal residence on the island (Bennett 1930:57; Bennett 1931:96), seasonal royal residences were present at Waimea Village (Bingham 1855:242; Cox 1975:5). Portlock noted these large homes during his visit:

Being on shore: myself, with my old friend Abbenoee, I observed in the village of Wymoa, about three hundred yards from the beach, a firing of four or five houses, tolerably, large in very good order, with-out inhabitants; on- my asking. Abbenoee the reason of their being tabooed, he. informed me that they were houses built for the king, whenever he honoured Wymoa with a visit, and that no persons whatever were allowed the use of them in his absence [Portlock 1789:189–190].

Between the swamp and the shoreline was a broad sand deposit, likely inhabited by fishermen on the *makai* (seaward) side. The only canoe landing at Pu'upu'upa'akai ("salt piled in heaps") was through the reef on the shore directly *makai* of the sugar mill. A "large settlement" was there with "canoe sheds lining the beach" (Knudsen and Noble 1945:50).

Mid 1800's to 1900's

Prior to 1848, all land belonged to the *akua* (God), held in trust for them by the paramount chief and managed by subordinate chiefs. Traditional land divisions of the fifteenth and sixteenth centuries persisted until 1848 Māhele (Kamakau 1991:54). In 1845, the Board of Commissioners to Quiet Land Titles, also called the Land Commission, was established "for the investigation and final ascertainment or rejection of all claims of private individuals, whether natives or foreigners, to any landed property" (Chinen 1958:8). In the mid-1800s, Kamehameha III decreed a division of lands called the Māhele, which divided lands and introduced private land ownership into Hawaiian society (Chinen 1958). In 1848, Kamehameha III divided the land into four groupings: Crown Lands reserved for himself and the royal house; Government Lands set aside to generate revenue for the government; Konohiki Lands claimed by *ali'i* and their *konohiki* (supervisors); and *kuleana*, habitation and agricultural plots claimed by the common people (Chinen 1958:8–15). During the

Māhele, the Land Commission required the Hawaiian chiefs and *konohiki* (land agent for the *ali'i*) to present their claims to the Land Commission. In return they were granted awards for the land quit-claimed to them by Kamehameha III. The remaining unclaimed land was then sold publicly, "subject to the rights of the native tenants" (Chinen 1958:29). The new western system of ownership resulted in many losing their land. Often claims would be made for discontinuous cultivated plots with varying crops, but only one parcel would be awarded. However, foreigners were not allowed to have land.

The Kuleana Act was legislated in 1850, allowing *maka'āinana* (commoners) to own land parcels they were currently and actively cultivating and/or residing. In theory, this "set aside" hundreds of thousands of acres as potential *kuleana* parcels; about 10,000 claimants obtained approximately 30,000 acres. The *konohiki*, 252 chiefs, divided up about a million acres. Many Hawaiians were disenfranchised by these acts (Cordy et al. 1991).

The Alien Land Ownership Act was enacted on July 10, 1850, a statute that allowed foreigners (aliens) to obtain and sell fee simple estate in lands. The first foreigners filing applications to purchase land were the missionaries, soon thereafter were individuals who became engaged in the sugar industry. As early as 1852, natives petitioned those in power to sell the lands to natives first or to stop raising the price of lands so natives could afford to purchase them (Chinen 2002:135-140).

Native claims for land made to the Board of Commissioners to Quiet Land titles in 1848 also shed some light as to settlement and land use in the area during the early historic period. In Waimea Ahupua'a, more than 150 *kuleana* awards were granted (Kamai et al. 2015a:27). Fifteen claims were awarded in Kīkīaola 'ili, on the west side of Kana'ana Ridge. Over 50 claims were awarded in the 'ili of Pe'ekaua'i, on the east and west sides of Kana'ana and Poki'i Ridge. The land east and west of the Kana'ana Ridge was mainly Crown and Government Land, some of which had already been given or sold to individuals and associations. The current project area is situated within and adjacent to Crown Land and several LCAs, which were primarily house lots, or *pahale*. Those nearest to the project area are listed in Table 1, which are not very close at all. Maps from the early twentieth century, (Figures 8), illustrate the location of LCA parcels in relation to the project area. Missionaries began arriving in Waimea in the early nineteenth century. In 1926, there was both flooding and an influenza epidemic in Waimea (Joerger and Streck 1979:10; Kamakau 1992:274). The flood caused extensive damage to both the *lo'i* and the newly constructed western structures built by the missionaries. Over the next few decades, the population in the Waimea area declined dramatically until the 1870s (Schmitt 1977:13).

The Reverend George B. Rowell arrived in Hawai'i with his wife Malvina Rowell in 1842 with the Tenth Company of American missionaries and arrived at the Wai'oli mission

station on Kaua'i in 1843. Rowell became the minister at Wai'oli, taking over the duties of Reverend William Patterson Alexander. Rowell was then reassigned to Waimea and moved into the former home of Reverend Peter Gulick. Rowell was expelled from the church by the American Board of Commissions for Foreign Missions, but soon opened a new Protestant church in Waimea called the Independent, or Makai Church. Rowell, who spoke fluent Hawaiian, served for 41 years on Kaua'i, passing away on 15 June 1884 (Hawaiian Encyclopedia.com: unpaginated). Rowell received a 565.56-acre coastal portion of the 1,123-acre Kīkīaola 'Ili as Grant 532 including the area immediately inland of the Kīkīaola Small Boat Harbor, which includes the current project area.

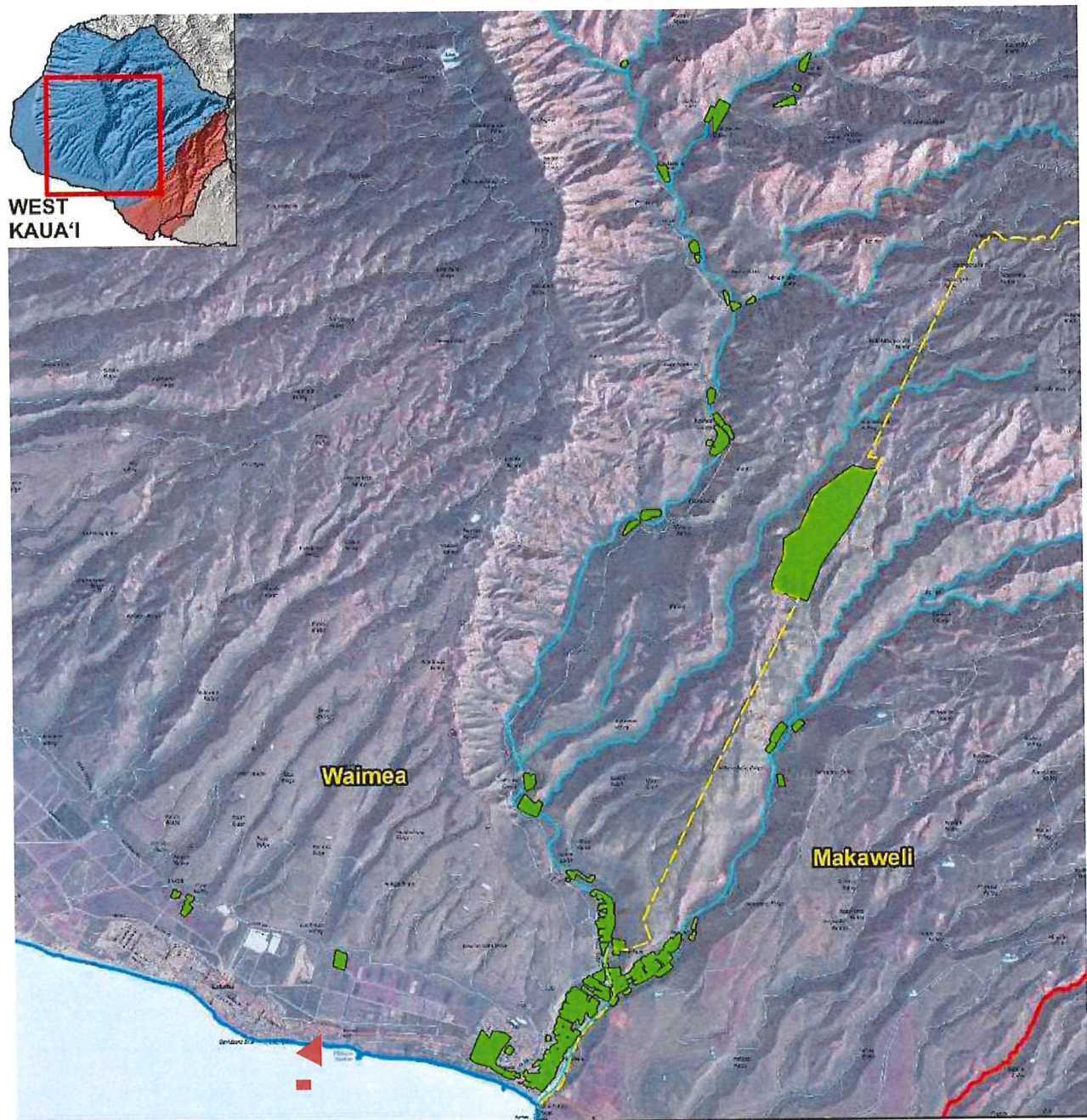


Figure 8. In green are the locations of the 150 LCA awards in Waimea. The red arrow is the project area.

Table 1. Land Commission Award Parcels near the Project Area.

LCA	Awardee	Description
387:2	American Sandwich Island Mission	House lot with pasture land
5362:1, 3	Naumu	Lo'i, house, lot, salt bed and muliwai
7713:42	V. Kamamalu	Kikāola 'ili

Rice Cultivation

Commercial rice growing came to the Kekaha-Mānā plain in the 1860s. The area's most prolific planter was Leong Pah On, a Chinese immigrant (Joesting 1984:206). Pah On started farming in Waimea Valley and eventually met Valdemar Knudsen who allowed him to cultivate the swamplands. He imported Chinese laborers, drained the swamps with ditches, brought in water buffaloes, and eventually acquired more land. At his peak he had about 600 acres in rice throughout Mānā, Kekaha, and Waimea (Char and Char 1979:21).

Pah On's enterprise ended suddenly in 1922. The leases on government lands were expiring and H.P. Fayé, manager of the Kekaha Sugar Company, convinced Pah On not to bid on new leases and let the sugar company take over control of the land. In return, Kekaha Sugar would sublease the rice fields back to Pah On. The successful rice grower could have easily out-bid the sugar concern but agreed to the plan. When Kekaha Sugar secured the leases its board of directors overruled Fayé and denied any subleases to Pah On (Char and Char 1979:22).

As for rice, it was not a successful crop in the Waimea area, and beginning in the 1930s the fields were being reclaimed for sugar cultivation (Hammatt 2008:27). From the end of the nineteenth century on, the population of Waimea grew (Schmitt 1977:13) and the area saw a boom in development with the rise of sugar, followed by tourism (Coffin 1930:48).

During the second half of the nineteenth century, agriculture shifted in Waimea from taro to rice and sugar cultivation. Lo'i were converted to commercial rice fields beginning in the 1860s, often leased by Chinese immigrants (Coulter and Chun 1937:62; Cozad 2008:45; Thrum 1877:49). In 1878, Valdemar Knudsen and Christian L'Orange began the first commercial sugar cane production in the Waimea area at Kekaha near Pōki'i (Condé and Best 1973:141). At its height, Kekaha Sugar Company spanned all of the district, less the *kuleana* lands, from Nu'alolo to Waimea (Kamai et al. 2015a:31–32).

Sugar Cultivation

The Reciprocity Treaty of 1876 between the United States and Hawai'i was the impetus for the expansion of the sugar industry throughout the Islands. The first

commercial cane in the Kekaha area was planted in 1878 near Pōki'i by Knudsen and a partner, Christian L'Orange. Hane P. Fayé, Knudsen's nephew, was brought in as another grower, and it was he who dug the first artesian wells in the Islands at Kekaha. With a steady—but still small—water source, investors showed interest and the Kekaha Sugar Company was incorporated in 1898 (Wenkam 1977:63; Joesting 1984:216–217; Wenkam 1977:63).

In 1880, the Waimea Sugar Mill Company was established by Conrad and Borghrevink. This estate was much smaller than Kekaha Sugar Company and comprised 200 acres leased from the missionary George Rowell (Soboleski 2015:199). The following is a reminiscence from the son of George Rowell, William E. Rowell, who was born in Hanalei in 1845 and moved to Waimea when he was one year old:

With regard to the Waimea Mill Co., the mill, as I remember it, was established and run by the Honolulu Iron Works Co. and Conrad and Borghrevink were planters, and then finally when the planters failed, the Waimea Mill Co. was formed to handle the whole business. The land belonged mostly to my mother, and was leased to the planters in the first instance, and then to the Mill Co. Yes, I was one of the large stockholders, was president for some time, but strange to say, I can't recall how I got my stock, but one thing I am clear about, I haven't got it now [Lydgate 1991:96].

The mill was constructed and operated by W.D. Schmidt. In 1903, Waimea Ditch was constructed, which carried water four miles from Waimea River to the plantation and replaced the use of brackish water for irrigation (Soboleski 2015:200). The following year, H.P. Faye, a manager at Kekaha Sugar Company, bought the land owned by Rowell and gained controlling interest in the Waimea Sugar Mill Company. In the following years several improvements were made to the operation: the Waimea Ditch was realigned, and flumes were replaced with tunnels; the seashore marsh was drained to increase acreage; a railroad was built; and the mill was reconstructed.

A railroad was constructed for the Kekaha Sugar Company in 1884 that ran from Waimea to the sugar mill at Kekaha. This railroad ran well inland of the current project area, connecting the fields, mill, and wharf. These improvements, along with a higher yielding cane, heavy fertilization, ratoon planting, and mechanization, led to the operation being one of the more modern and efficient in Hawai'i (Soboleski 2015:200 and Vernon et. al. 2020). By 1935, 530 acres were under cultivation. The Waimea Sugar Mill Company operated until 1969, at which time Kekaha Sugar Company leased the land.

The Kekaha Sugar Co. saw expansion after 1907 under the management of Hans Peter Faye when the construction of the plantation's major irrigation ditch was

completed. Most of the cane was initially transported by flume. By 1910 the plantation had 15 miles of permanent railroad track transporting cane from collection points to the mill and then transporting bags of sugar to the steamship landing at Waimea. In this timeframe the plantation employed approximately 1,000 people. In 1938 a *Honolulu Advertiser* article stated that Kekaha Sugar Co. was the most valuable single piece of property in the Territory.

1900s – Contemporary Land Use

In the 1900s, Kekaha Sugar Company employed about 1,000 people, of which approximately 300 families lived in plantation houses. The Kekaha Sugar Company saw expansion after 1907 when the construction of the plantation's major irrigation ditch was completed. The engineering feat brought water to the area from 8 miles up the Waimea River via a series of ditches, flumes, tunnels, and siphons (Thrum 1908:158–159).

In 1922, Kekaha Sugar Company began to drain the Mānā swamps to produce more sugarcane land (Hawaiian Sugar Planters' Association 2004: unpaginated). The project took 60 years to complete. In 1950, the Kekaha Sugar Company rebuilt their factory (Hibbard and Wichman 2008:13). The Kekaha Sugar Company also continued to use some of their land for cattle grazing. In 1951, they had a herd of 1,427 head on 10,816 acres of pasture. In 1969, the company again expanded, leasing the lands of the newly closed Waimea Sugar Mill Company. In 1987, the company had a record crop of 56,618 tons of sugar, but in 1988 the Kekaha Sugar Company was sold to JMB Realty as part of the buyout of Amfac Hawaii (Wilcox 1996:97). Also of interest is the restoration of the adjacent Chinese and Japanese cemeteries, SIHP #50-30-05-00613 and #50-30-05-00612 (that appears on a 1950 aerial photograph, which took place in the same year).

The Kīkīāola Small Boat Harbor, located southeast from the current project area, was developed by the State of Hawai'i in 1959. The current project area prior to the harbor development is shown in an aerial photograph from 1950 with the new harbor depicted in a 1963 USGS map and the 1975 aerial photograph. By 1992, residential housing was well established on the *mauka* side of the Kaunualii Highway and from the current project area. The area east of the current project remains undeveloped.

In 1992, the company officially became part of Amfac Sugar Kaua'i West, and in 1955, the last sugarcane was harvested by this company on their Waimea lands. In 2000, Amfac Hawaii closed its last sugar operations at the Kekaha mill (Sommer 2001: unpaginated).

ARCHAEOLOGICAL BACKGROUND

The five closest and most germane studies to the project area are summarized below.

Hammatt and Chiogioji 1996

CSH (Hammatt and Chiogioji 1996) carried out an archaeological and historical assessment and field inspection of Kikiaola lands with the project area including the Kīkīaola Small Boat Harbor and extensive lands just back from the coast to the west and east. Historic properties discussed include the Chinese Cemetery (SIHP # 50-30-05-613 [SIHP #s for the cemeteries not given in report]) and Japanese Cemetery (50-30-05-612) just north of the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area, burial sites SIHP #s 50-30-05-1853 and 50-30-05-1854 by the Waimea plantation cottages, the Catholic Church and Cemetery, and the Waimea Sugar Mill building.

Hammatt 2004

CSH (Hammatt 2004) prepared a letter report summarizing the inadvertent discovery of human skeletal remains at the Aloha Kaua'i Villas (4491 Kikiaola Place) at Kikiaola close to the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. A minimum of three human burials were encountered during pool excavation and were designated SIHP # 50-30-05-3911 Features A–C. A description of the stratigraphy within the pool excavation and skeletal inventories are presented.

Cordy et al. 2005

CSH (Cordy et al. 2005) carried out an archaeological assessment with subsurface testing for an 8.2-acre parcel at Kīkīaola close to the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. The fieldwork consisted of the excavation of 52 backhoe trenches and documentation of the sediment profiles. No sites were identified. Although artifacts, particularly bottles, dating to the early and mid-twentieth century were identified there was no discrete horizontal or vertical aggregation of artifacts such as to warrant site designation.

Stein and Hammatt 2006

CSH (Stein and Hammatt 2006) reported on archaeological monitoring and inadvertent burial recovery for an approximately 0.23-acre parcel within the Kekaha House Lots (TMK: [4] 1-3-05:45) quite close to the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. During excavations for a septic system with leaching bed the crew discovered human remains. Two human burials were designated SIHP # 50-30-05-3941. Due to the lack of historical artifacts or coffins associated with the remains and also because both burials were found in either a flexed or semi-flexed position these burials were regarded as likely pre-Contact interments. Dog bones were also observed.

Powell et al. 2009

Scientific Consultant Services (Powell et al. 2009) produced a historical summary of the former fishpond location and evaluation of the potential for human skeletal remains at TMK: [4] 1-3- 005:053 located immediately west of the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. Information gathered suggests that Kekaha Sugar Company established a fishpond in 1957 in an existing pond area on Parcel 53 to raise tilapia to feed on the vegetation clogging irrigation ditches. SCS interviewed 74-year-old Willy Martin, a former employee of Kekaha Sugar Company, who was born and raised in Kekaha. Sometime in 1959 or 1960 Mr. Martin was instructed by the plantation to fill in the fishponds on Parcel 53. The "fill" material was to come from a sand dune on the western side of Parcel 40. Parcel 53 is immediately adjacent to the eastern boundary of Parcel 40. Both parcels were owned by the Knudsen family. "There were a lot of bones" collected in burlap bags and interred in the pond as it was filled (Powell et al. 2009:10.)

McMahon 2023

Recently (reports in progress McMahon, EAL 2023) an archaeological inventory survey was conducted in the 2.29 acres (two parcels). Twelve (six on each parcel) backhoe trenches were placed in the project area where the impacts would be (house footing, shed footings, septic tanks and leachfields). The excavations were 2 meters in depth. Negative findings. A 100% surface survey was also conducted on both parcels. Modern trash was found on the surface.

NATIVE HAWAIIAN CULTURAL CONSULTATION

It is the policy of the State of Hawaii under Chapter 343, HRS, to alert developers and decision makers, through the environmental assessment process, about significant environmental effects which may result from the implementation of certain actions. An assessment of cultural impacts gathers information about cultural practices and cultural features that may be affected by actions subject to Chapter 343 and promotes responsible decision making. Articles IX and XII of the State Constitution, other state laws, and the courts of the state require government agencies to promote and preserve cultural beliefs, practices, and resources of native Hawaiians and other ethnic groups. Chapter 343 also requires an assessment of cultural resources, in determining the significance of a proposed project.

One of the most important parts of conducting a cultural assessment and study is to hold consultation with Native Hawaiian kūpuna or elders, Hawaiian cultural organizations, cultural practitioners, and individuals from the community who potentially have knowledge of traditional Hawaiian sites, resources and cultural practices that are related to the project area as well as to the adjacent and extended land areas of the Kekaha area, 'ili of "Kīkīaola and Waimea ahupua`a.

Ultimately, the goal as preparers of this Ka Pa`akai Analysis is to produce a document that can be used to protect and preserve the valuable knowledge and traditional practices of nā `ōiwi kānaka, the Native Hawaiian people of these places.

EAL's goal was to meet with and interview a cross-section of indigenous Hawaiian people from the community; first and foremost, with kūpuna or elders that have memories and personal experiences of the project area and the surrounding lands in Kekaha ahupua`a. In addition, EAL was hopeful to receive their `ike or insight and knowledge about customary practices and traditional places associated with or relating to the project area.

EAL also aimed to seek out and speak with those of the mākua or parent generation who had potential knowledge, ties and experiences linked to the project area. In this endeavor to "interview" Native Hawaiians, EAL chose to do so in a Hawaiian manner of kukākukā or through "talk-story". In speaking with interviewees without being nīele or as a prying meddler by being annoyingly inquisitive was the approach. While there are specific points of interest for questions that lead the discussions, it is important that each person engage in a manner that is respectful and without imposing pressure. To the Native Hawaiian, a nīele person will never get anywhere by being bold, blunt, and direct. However, he or she can be successful by leading up to a subject through indirection and a more `olu`olu or gracious approach. Every attempt to avoid being maha`oi or presumptuous, brazen and insensitively forward was used. In the traditional Hawaiian household that was led by kūpuna and mākua who were adamant that the values of aloha (love), ha`aha`a (humility), ahonui (patience) and hō`ihi (respect) apply to the way that one behaves and interact with others. This is especially so when talking and meeting with kūpuna, for with the slightest tone of pejorative stance or speech, they will cease to share their valuable insight and experiences. It helps tremendously to have some sort of association with individuals as well, for more is shared when there is a level of comfort, trust, and familiarity.

The interviewees that EAL engaged with for this Ka Pa`akai analysis are:

- | | | |
|----|---------------------|-------------------------------------------------------|
| 1. | Kunane Ipoalani | Kekaha Resident |
| 2. | Vida Mossman | Kekaha Resident |
| 3. | Roslyn Cummings | Naumu/Malama from
Waimea/Kekaha |
| 4. | Doreen Naumu Tamura | Naumu family |
| 5. | Chris Faye | Waimea/Kokee Resident
family from
Waimea/Kekaha |
| 6. | Chad Kudo | Waimea fisherman |
| 7. | Lani Swain | Hanpepe fisherman |
| 8. | Tadashi Muratake | Kehaka fisherman |

9.	Claire Seaver	Kehaka owned one of the original boat companies
10.	Liko Hookano	Kekaha retired commercial boater
11.	Harold Vidinha	Kehaka fisherman
12.	Clint Ice Apo	Kekaha Boating Club VP
13.	Eric Erdz Erdman	Kekaha Boating Club Pres.

All interviews were conducted by EAL in late 2022-2023. Subsequently, EAL found that just about most of the interviewees were interested in learning about the project itself, but none had concerns. Most of those interviewed were fisherman and other residents of the surrounding area.

As such, the priority topics needed to conduct this Ka Pa`akai analysis of cultural resources and impacts. EAL spent time attempting to provide an overview of the project. Most were aware of the project and very supportive.

Mahalo a nui loa iā `oukou for their generous support to contribute and collaborate to this success of this Ka Pa`akai analysis.

CONSULTATION METHODOLOGY & RESULTS

As with the composition of the Ka Pa`akai analysis document, EAL employed interview methods consistent with indigenous Hawaiian values. Specific values and methods applied to the interview process included:

Kukākukā, also known among locals as “talking story”, is a quintessentially Hawaiian approach to sharing information intended to avoid being seen as *nīele* (i.e., nosy or meddling) and instead being perceived as *‘olu‘olu*—gracious—in conduct. By approaching the specific interview topics in an indirect manner, EAL interviewers communicated a level of sincerity and respect for the interviewee and subject matter and so avoided their curiosity being interpreted as *maha‘oi*, i.e., brazen and forward.

Aloha, or love and abiding regard for the Hawaiian landscape and culture formed the basis for the interview process, communicating deep affection for the subject matter and individuals involved.

Ha‘aha‘a, or a sense of humility, particularly when speaking with *kūpuna*, where a single pejorative act or statement could create a sense of offense in the interview subject which would lead them to withhold their insight and experience.

Ahonui, or patience, and a measured tempo to the contact and interview

process which allows for a sense of comfort, familiarity, and trust to emerge.

Hō'ihī, respect, both for the interviewee and for the subject matter were kept at the very heart of the interview process and shaped the methods employed by EAL.

To these ends, the use of recording devices and a standardized questionnaire were not employed unless requested to do so. Interviews were conducted in individual and small-group settings in homes and back yards. Conversations could flow toward, and at times away from, the specific subject of the project as the interview subjects deemed appropriate.

SELECTION OF INTERVIEW SUBJECTS

An assessment of cultural impacts gathers information about cultural practices and cultural features that may be affected by land use decisions. In the preparation of this Ka Pa`akai analysis, representatives of EAL identified certain criteria which guided the process of identifying individual's familiar with cultural practices and features in, or near, Waimea ahupua'a. Was the candidate a *mākuā*, or member of the parent generation, with potential knowledge, ties, or experiences of the project area, 'ili of "Kīkīaola region?

- Was the candidate familiar with, or possessing insight into, the customary practices and traditional places in or near to the project area?

In the timeframe available for the preparation of the Ka Pa`akai analysis, representatives of EAL spoke with 13 community members all with personal ties to the 'ili of Kīkīaola and possessed unique knowledge relevant to the assessment.

ETHNOGRAPHIC-ORAL HISTORY METHODOLOGY HISTORICAL & ARCHIVAL RESEARCH

Primary research references used in this study include, but are not limited to—land use records, including those obtained from an extensive review of Hawaiian Land Commission Awards (LCA) records from the 1848 Great Māhele, territorial land patent grants, oral history interviews preserved in the Bishop Museum Archive, and an extensive review of historical texts authored or compiled by D. Malo (1951), M.K. Pukui (1972), and Handy and Handy with Pukui (1972). Other sources examined and incorporated include regional planning documents, modern English language newspapers, and travel writers 'familiar with the 'ili of "Kīkīaola and important testimony of elder kama'āina of the lands of the Waimea/Kekaha region.

Researchers also took full advantage of historical and archival resources from the collections of the Bishop Museum, Kauaʻi Museum, and Kauaʻi Historical Society. Research of published and unpublished written literature, as well as Hawaiian language documents, maps and photographs found in public and private collections for references and other relevant information were explored. Additionally, the examination of indigenous Hawaiian chants and interviews conducted with kūpuna or Native Hawaiian elders were extraordinarily revealing and valuable to producing this cultural study.

CULTURAL RESOURCES & PRACTICES IDENTIFIED

Neither the literature sources consulted, nor the interviews conducted identified any ongoing native Hawaiian cultural resources or practices located on the project. As indicated by background research and many of the interviewees, the broad Kekaha region has a rich history replete with *moʻolelo* (legends) and *wahi pana* (traditional place names and their stories) however none of these have any significant direct or indirect connection to the project site. In addition, the long history of cultivation in this area has likely destroyed all cultural materials and since the land has been overgrown and privately owned prevented in cultural practices which might have been present in the past.

Most of the informants could not remember anything except the two cemeteries. Most informants thought that the area was scrub dune lands. Most of the cane cultivation was on the other side of the highway to the foothills. Maybe there could have been some pasturing going on in the scrub dunes.

Many agreed that the sandy soils could possibly have Hawaiian burials there since the plantation made the cemeteries, it seemed plausible that Hawaiian too buried there. Since the construction of the small boat harbor no one really fished offshore there.

ANALYSIS OF IMPACTS

The Kekaha/Waimea region, which includes the area proposed for pre-school use, is a place of prehistoric and historic significance in the Hawaiian civilization. Oral histories and written records tell of the continuing traditions, beliefs, and cultural practices of the region. However, none of the background research, nor interviews conducted in the preparation of this Ka Paʻakai analysis indicates that the cultural practices, resources, or beliefs are tied to the proposed project site. The absence of cultural properties and resources in a region may be due to rapid change that sugar cultivation brought to 'ili of Kīkīaola and the dry environment of the area.

Traditional Hawaiian uses of the lands in the Kekaha ahupua'a are known from prehistoric times. Such uses, including habitation, agriculture, and gathering continues throughout the region, but none is known to exist within the project area. Access to sensitive *wahi pana*, streams, the shoreline, or the mountains will not be compromised by this project.

Native Hawaiian beliefs and traditions associated with the 'ili of "Kīkīaola persist but these are general associations not specific to the project site. No *kūpuna* (elders) or *mākua* (parents) could be located that had knowledge of traditional beliefs or practices specific to the project site.

There are no known cultural resources or practices with the potential to be negatively impacted because of the proposed project.

CLOSING

Cultural impacts upon Native Hawaiian people, customary practices and religious beliefs have infiltrated the history of Hawai'i Nei for more than 200 years since the arrival of Captain James Cook in 1778. Within a period of 40 short years, the Kapu system was abolished by Kamehameha II - Alexander Liholiho and the Queen Regent, Ka'ahumanu bringing an end to the strength of the closely-knit Hawaiian religion and political system of Hawai'i. With the arrival of Calvinist missionaries in 1820 came a new god and religion which leveraged the beginnings of severing the native Hawaiians' veneration of the natural world.

By the 1890s, subsistence lifestyles, agriculture and rural communalism had entirely been replaced by commercialism, urbanization and individualism as key features of life in the Hawaiian Islands. Foreign sugar plantation moguls usurped control of Hawai'i's prime agricultural lands and fresh water sources to sustain their crops. Miles and miles of irrigation ditches were engineered to redirect the natural flow of water out of the ahupua'a; forever changing the balance of environments and lifestyles of generations of native Hawaiian families.

By and large, the issues of cultural impacts in Hawai'i are rooted in the loss of access and use of Hawai'i's land and natural resources as formerly practiced in pre-contact Hawai'i. It is a deep-seated dilemma caused by the intrusion of forced principles brought on by Westernization and the rise of a monetary economy.

However, the lasting affects upon native Hawaiian people that have resulted in their disconnect to traditional practices, beliefs and knowledge of place goes back further to the introduction of Christian tenets that prohibits veneration and expression of nature or ancestor worship in any way, shape, or form. There is great

anxiety amongst contemporary Hawaiians to embrace the values and ideologies of their ancient ancestors out of fear instilled by the doctrines of the dominant western religion which most have adopted. This alone, largely contributed to the depreciation of interest to learn and maintain family genealogies, enroll to formal training in cultural practices that engage in ceremony and spiritual processes, etc.

All forms of traditional Hawaiian cultural practice included religious and spiritual processes of protocols, ceremonies, prayers and prescribed tabus and restrictions. The removal of this crucial part of Hawaiian cultural expression separated and dissolved the sacred and profound of the practice itself. It also eliminates the individual's conscious connection to the environment which is also considered as a sacred and profound aspect of the practice itself.

This analysis does not foresee potential impacts of the proposed single-family residences and boatsheds on Native Hawaiian or other ethnic groups' cultural practices customarily and traditionally exercised for subsistence, cultural or religious purposes.

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EXHIBIT "F-3"

EXPLORATION ASSOCIATES LTD

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**ARCHAEOLOGICAL ASSESSMENT
OF A 1.188 ACRE PROJECT AREA FOR
COUNTY OF KAUA'I, SMA APPLICATION FOR HALE WA'A
Waimea Ahupua'a, 'ili of "Kikīaola, Moku o Kona, Kaua'i Island
at
TMK (4) 1-2-013:040 (lot 65)**



Prepared for
Nathan Fisher
Na Pali Experience LLC

By Nancy McMahon, MA, MEd, MS
Exploration Associates Ltd.

April 2023

Management Summary

Exploration Associates Ltd. completed the fieldwork component of the archaeological assessment under Hawai'i State Historic Preservation Division/Department of Land and Natural Resources (SHPD/DLNR) permit number 23-30 per Hawai'i Administrative Rules (HAR) §13-282. This archaeological inventory survey was conducted 1.11 acre of property in Waimea Ahupua`a, 'ili of "Kīkīāola, Kona District on Kaua`i Island, Hawai'i at TMK (4) 1-2-013:040 (lots 65) for a SMA Application for a single-family residence which will be subject to review under Hawai'i Revised Statutes (HRS) §6E-42, subject to HAR§13-284 issued by the County of Kaua'i Planning Department. Na Pali Experience LLC mowed the overgrown project so that a surface subsurface survey could be conducted on the 1.188-acre project area. A 100% pedestrian surface survey was conducted on the parcel. No surface historic properties were found. Test excavations consisted of 4 mechanically dug trenches during this archaeological research. The excavation results were negative. No historic properties were found. No cultural materials were found. Based on the negative findings of this report and others work in the area no further archaeological work is recommended.



EXPLORATION ASSOCIATES LTD
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Introduction

The project area lies in a relatively undeveloped stretch of land between the urban/suburban centers of Waimea (approximately 700 m to the southeast) and Kekaha to the north and northwest. Kaumualii Highway, the major vehicular artery to west Kaua'i, lies along the north end of the project area. The Kīkīāola Small Boat Harbor, located just southeast of the project area, was originally developed by the State of Hawai'i in 1959 and is named after the land area ('ili) of "Kīkīāola." Kīkīāola is best known as the name of a historic irrigation ditch ('auwai) also known as "Menehune Ditch" or "Pe'ekaua'i Ditch," SIHP # 50-30-09-00026, that is traditionally believed to have been built by the Menehune (legendary small people); the ditch was added to the National Register of Historic Places on 16 November 1984.

The lands were previously under Kīkīāola Land Company Ltd. before it was subdivided into 4 residential lots.

At the request of Nathan Fisher of Na Pali Experience, LLC, Exploration Associates (EAL) conducted archaeological inventory survey of parcel (TMK (4) 1-2-013:040 (lots 65)) which is in the Waimea Ahupua'a, 'ili of "Kīkīāola, Kona District on Kaua'i Island (Figures 1 - 4). Hereinafter referred to as "*project area and/or the subject property*". The subject property is located makai of Kaumualii Hwy past the Chinese Cemetery. To the northwest and north are residential properties. To the southeast is an undeveloped parcel and two County cemeteries (Chinese and Japanese cemeteries, SIHP #50-30-05-00613 and #50-30-05-00612). Kīkīāola Small Boat Harbor and the ocean are to the south. The property is vacant and undeveloped with a cul-de-sac with existing utilities outlets for all the lots at the corners of the parcels.

The proposed plan is to develop the parcel for a single-family residence (1000 sq. ft. per house) and boatshed (2,160 sq. ft. per boatshed). The County Zoning is Open and in the special management area (SMA). The parcel is intermittently vegetated with kiawe (*Prosopis padilla*), koa haole (*Leucaena leucocephala*), and various grasses, such as bristly foxtail (*Setaria verticillata*), bermudagrass (*Cynodon dactylon*), a fingergrass (*Chloris* sp.). The following archaeological inventory survey work (which has become an archaeological assessment (AA) due to negative findings) was designed to satisfy the State Historic Preservation Division's review for archaeological inventory surveys (AIS) under HRS, §6E-42 and per HAR §13-276 and HAR §13-284.

The purpose of this archaeological survey is to document all historic properties within the subject parcel. Given the size and location of the parcel, it was determined that subsurface testing with a backhoe was needed for the study. Backhoe testing focused on attempting to locate subsurface deposits, such as buried cultural layers, *iwi*--human burials, and/or deposits with significant paleoenvironmental data, which can not be located by surface pedestrian survey.

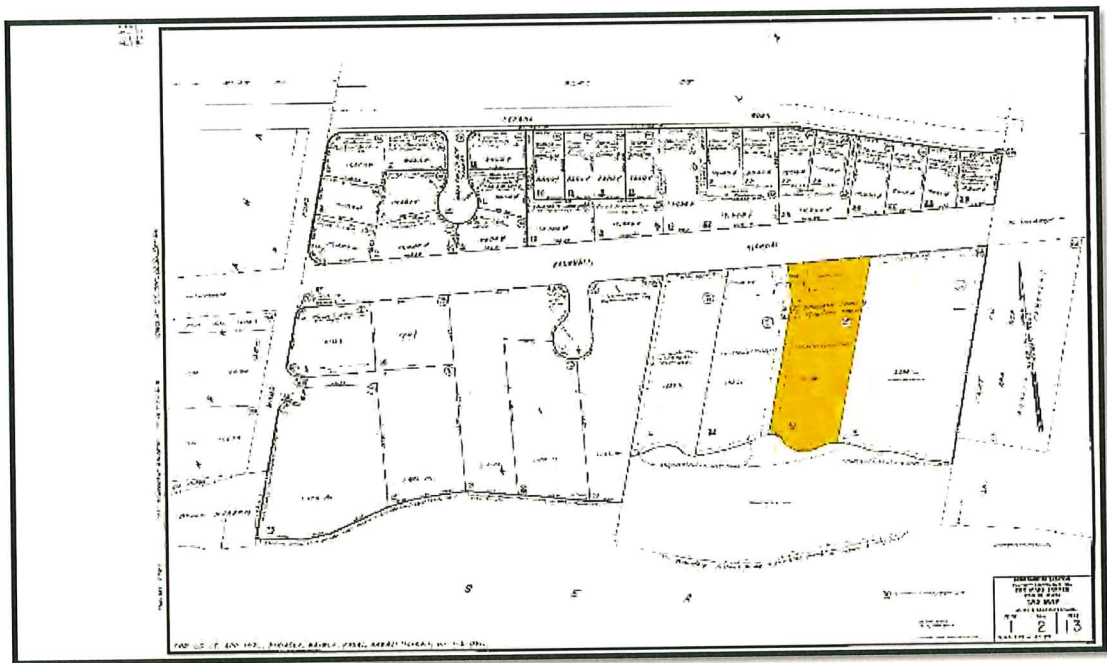
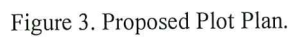


Figure 1. Tax Map Key (4) 1-2-013:040 (lots 65)).



Figure 2. Pictometry aerial showing Project Location in Blue.



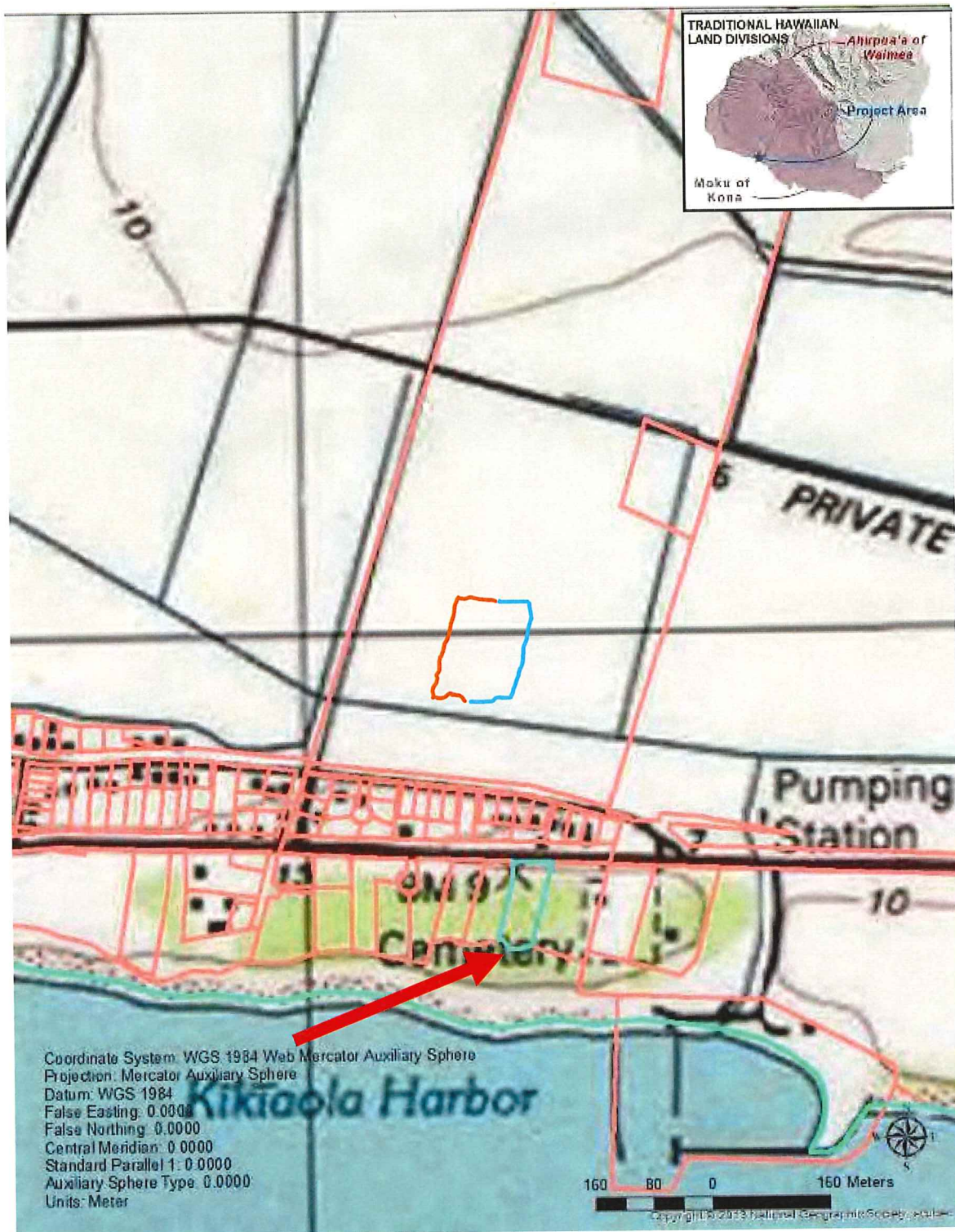


Figure 3 USGS Kekaha Quad (1984) showing project area in Blue.



PROJECT
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Figure 4. Showing The Proposed Conceptual Plans

Natural Setting

Kaua'i is the oldest of the Hawaiian Islands. Geologically, the original volcano, located in the middle of the island, went through a period of weathering and erosion. There were voluminous rejuvenated stage lavas which represent the later eruptive stages of the volcano. The primary basaltic rocks from the original volcano are the Waimea Canyon series. The innumerable lava flows are divided into three major geologic formations: the Napali formation, the Olokele formation, and the Makaweli formation. The Napali formation of the Waimea Canyon series is the most permeable of the three.

After the original flows, the Kōloa volcanic series covered most of the eastern part of the island. The Kōloa series are less permeable than the Napali formation lavas. The Kōloa series of flows were deposited in relatively flat layers compared to the Napali flows. The Olokele and Makaweli formations are also relatively flat but more permeable than the Kōloa series.

Rainfall and Vegetation

Located on the drier leeward coast of Kaua'i, annual rainfall at the project area averages 512.5 millimeters (mm) (20.18 in) per year, with most rain falling in the months between October and March. Giambelluca et al. 2013). The project area is situated makai of the Kuamualii Highway.

Vegetation along this arid coast is sparse. With 20 inches or less of rain annually, only the hardiest plants adapted to the coastal environments can thrive in this zone. The vegetation is typical of dry seashore environments in Hawai'i and is dominated by alien species. The parcel is intermittently vegetated with *kiawe* (*Prosopis padilla*), *koa haole* (*Leucaena leucocephala*), and various grasses, such as bristly foxtail (*Setaria verticillata*), bermudagrass (*Cynodon dactylon*), a fingergrass (*Chloris* sp.).

Temperatures in the southwest and west sides of Kaua'i average between approximately 60 and 90 degrees, with prevailing northeast trade winds (Armstrong 1983:64–65).

Waimea Ahupua'a is composed of several regions that are very different in climate and terrain. These differences essentially dictated the kinds of resources that were available, and hence had much to do with the way the *ahupua'a* was settled by prehistoric Hawaiians. The well-watered valley and delta of the Waimea River were ingeniously developed and engineered for wetland agriculture and represent the epitome of the typical Hawaiian and Kaua'i-type valley settlement (Handy and Handy 1972:393–397).

In contrast, Kekaha and other settlements on the Mānā plain suffered from a definite lack of fresh surface water. The *mauka* gulches had only intermittent stream flows, and water sources were primarily springs along the base of the cliffs. For this reason, this portion of the report will focus mainly on the specific area of Kekaha and not attempt to cover the entire *ahupua'a* of Waimea.

Soils

The project area is situated at 2.0–4.0 m above mean sea level (AMSL). According to the USDA Web Soil Survey, the soils in the project area are classified as Jaucas loamy fine sand, dark variant, with 0 to 8 percent slopes (JkB), as shown in Figure 6. The Jaucas series are found on vegetated beach areas along the shore. This soil is formed in calcareous sand deposits. They are very deep, excessively drained, and have very rapid permeability (Soil Survey Staff 2017). Areas containing these soils are typically used for recreation and as marine wildlife refuges. Inland, all soils in the project area are classified as Jaucas loamy fine sand, dark variant, 0 to 8 percent slopes (JkB). They developed in wind and water deposited sand from coral and seashells. Unlike other soils of the Jaucas series, in the JkB dark variety, “sand and coral sand are mixed throughout the profile. The basaltic sand gives this soil a dark-brown to black color” (Foote et al. 1972).

Soils along the coast are listed as Beaches (BS) for an approximately 10 m wide stretch adjacent to the ocean. Beaches are described as follows: Beaches (BS) occur as sandy, gravelly, or cobbly areas on all the islands in the survey area. They are washed and reworked by ocean waves. The beaches consist mainly of light-colored sands derived from coral and seashells. A few of the beaches, however, are dark colored because their sands are from basalt and andesite. Beaches have no value for farming. Where accessible and free of cobblestones and stones, they are highly suitable for recreational uses and resort development [Foote et al. 1972:28].

From a historic preservation perspective, Jaucas sand deposits are associated with the presence of traditional Hawaiian burials and subsurface cultural deposits.

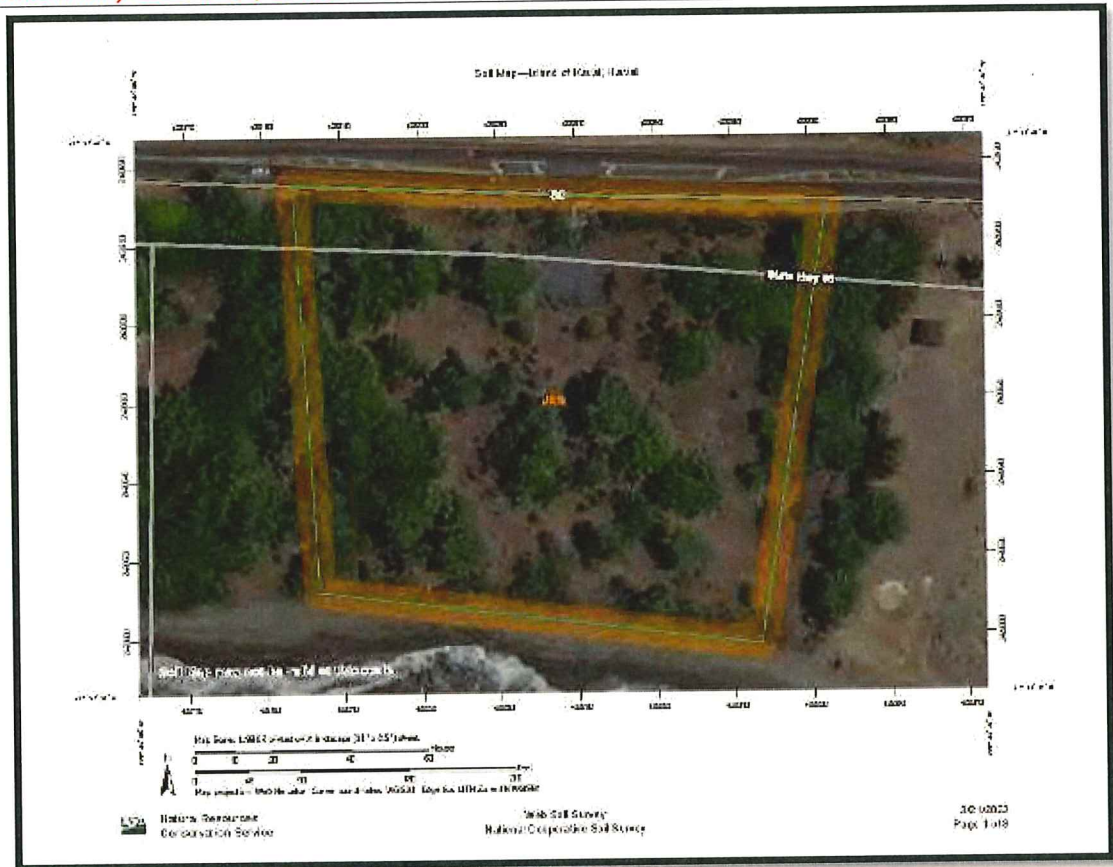


Figure 5. NRCS WebSoil Survey of the project area.

Background History

Although the Boundary Commission officially surveyed and set the bounds of the *ahupua'a* of Waimea in 1875, as generally described previously, there are a few sources which contradict this, maintaining that Kekaha was a separate *ahupua'a*. Kīkīāola was a smaller land division (*'ili*) sometimes regarded as a subset of Kekaha and/or Waimea. Our earliest (1885) identified detailed map of the project area vicinity indicates that a 565.56-acre coastal portion of the 1,123-acre Kīkīāola *'Ili* was awarded as Grant 532 to George B. Rowell. Significant habitation activity is indicated approximately 500 m to the east of the project area (toward Waimea Town), but no development is shown in the immediate vicinity of the project area. Testimony in the mid-1800s that supports the native land claim of R. Naumu refers to “Kekaha *ahupua'a*” in describing the properties (Native Testimony, n.d.:11:15).

Valdemar Knudsen, an early haole (non-native) settler in the area, also refers to the “*ahupua'a* of Ketaha [sic]” in a letter to John Dominis, Commissioner of Crown Lands (Knudsen 1866:3). A late nineteenth century map (Imley 1891) shows a pie-shaped land

section labeled “Kekaha,” indicated by a dotted line boundary that encompasses the area from the top of Waiaka ridge to the shoreline.

Handy and Handy (1972:427) imply that Kekaha, as well as Polihale and Mānā, were individual ahupua‘a of Waimea, though the reasoning for this is not given. However, the native land claim of Elia Lihau for the land of Wai‘awa, just west of Kekaha, concedes that this area was indeed part of the ahupua‘a of Waimea (Native Register 1848:9:244).

Admittedly, it is unusual for a single ahupua‘a to occupy such a large percentage of the land area of a major Hawaiian island. It could easily be argued that the comparatively low agricultural productivity of the Mānā plain, due to the scarcity of water, is the basis for its inclusion in Waimea. However, the same cannot be said for the well-watered valleys of Nu‘alolo and Miloli‘i, both of which could easily support typical and self-contained valley settlements of perhaps small but stable populations.

It could also be speculated that Waimea, being one of the two areas of the island that traditionally was the domain of the high chiefs (the other being Wailua), commanded the resources of the large upland region of Kōke‘e and Alaka‘i, among them the large *koa* trees out of which the hulls of canoes were hewn, and forest birds which supplied the feathers for cloaks, capes, and other items associated with the *ali‘i* (chiefly class). It is quite possible that at one time Waimea was divided into several smaller *ahupua‘a*, perhaps before the Māhele, or even during the pre- Contact period.

Pukui et al. (1974:106) give the literal translation of Kekaha as “the place.” However, Handy and Handy’s (1972:54) definition gives more insight into the description of the place name: “Kaha was a special term applied to areas facing the shore but not favorable for planting. Kekaha in Kona, Hawaii, was one so named, and Kekaha on Kauai another.”

Kelly (1971:2) describes Kekaha on the island of Hawai‘i as *‘āina malo ‘o* or “dry land,” and indeed the same could be said of Kekaha, Kaua‘i, if one considered the area’s low annual rainfall and lack of permanent streams. Kekaha, however, was neither void of water nor of a pre-Contact population that made use of the local resources.

Kekaha *Ahupua‘ā*, according to the Ulukau database (www.ulukau.com), is “One of 9 Crown lands, formerly an *ah* the *‘okana* of Waimea. Not named in Mahele Book” (Pukui et. al. 1974, Kelly (1971:2).

The name, “Kekaha,” can be interpreted to mean “dry land” or an area near the shore that is not favorable for planting. The Kekaha region of Kaua‘i has low annual rainfall and no permanent streams. Despite the low rainfall, early visitors from Oahu in the late 1700s indicate that the Kekaha area was well-populated. Inhabitants manufactured cloth from *wauke* (Mulberry) and grew taro and sugarcane in the swampy ground. In the mid-1800s, Land Commission Awards (LCA) requests show that there was both dry land and irrigated agriculture occurring in the region along with salt beds and at least one fishery. Valdemar Knudsen settled in Wai‘awa in 1854. His agricultural and pastoral lands covered much of

the region and eventually he had control over the entire district. Knudsen made use of local labor by requiring residents to work for him three days each month as rental payment.

A Chinese immigrant, Leong Pah On, began growing rice commercially in the 1860s in the drained swamplands of the area, eventually cultivating 600 acres throughout Mānā, Kekaha, and Waimea for rice production. Pah On imported laborers from China to work the rice fields, presumably creating a significant Chinese population in the area. Rice cultivation continued until 1922 when the Kekaha Sugar Co. assumed ownership of the lands. The Kekaha Sugar mill closed in 2000 and the DLNR managed these lands until ADC was awarded them by the state in 2003.

According to Ms. Christina Faye, Kekaha did not exist prior to the plantation which was established prior to the *mahele* (Pers. Comm.). As stated above, Pukui et al. (1974:106) provides the literal translation of Kekaha (Ke-kaha) as “the place” and, according to Ms. Faye, “the place” refers to the location of the sugar mill. According to Faye, the name Kekaha was used for the region because it was “the place” where the plantation was located. All mention of a village at Kekaha dates to after the establishment of the plantation, except for the village of “A-Tappa” in the 1798 Beresford account.

Traditional Cultural History

The Hawaiian cultural landscape can be described through *mo‘ōlelo* and *wahi pana* (significant Hawaiian place names). *Mo‘ōlelo* may be myths, legends, proverbs, and event surrounding well-known individuals in Hawaiian history (Pukui and Elbert 1986:254). The reader is referred to O’Hare et al. (2015) and EAL (2023) for a broader background of the *ahupua‘a* of Waimea.

Land Commission Awards

Traditional land divisions of the fifteenth and sixteenth centuries persisted until 1848 Māhele (Kamakau 1991:54). In 1845, the Board of Commissioners to Quiet Land Titles, also called the Land Commission, was established “for the investigation and final ascertainment or rejection of all claims of private individuals, whether natives or foreigners, to any landed property” (Chinen 1958:8). In the mid-1800s, Kamehameha III decreed a division of lands called the Māhele, which divided lands and introduced private land ownership into Hawaiian society (Chinen 1958). In 1848, Kamehameha III divided the land into four groupings: Crown Lands reserved for himself and the royal house; Government Lands set aside to generate revenue for the government; Konohiki Lands claimed by *ali‘i* and their *konohiki* (supervisors); and *kuleana*, habitation and agricultural plots claimed by the common people (Chinen 1958:8–15). During the Māhele, the Land Commission required the Hawaiian chiefs and *konohiki* (land agent for the *ali‘i*) to present their claims to the Land Commission. In return they were granted awards for the land quit-claimed to them by Kamehameha III. The remaining unclaimed land was then sold publicly, “subject to the rights of the native tenants” (Chinen 1958:29). The new western system of ownership resulted in many losing their land. Often claims would be made for

discontiguous cultivated plots with varying crops, but only one parcel would be awarded. However, foreigners were not allowed to have land.

The Kuleana Act was legislated in 1850, allowing *maka 'āinana* (commoners) to own land parcels they were currently and actively cultivating and/or residing. In theory, this “set aside” hundreds of thousands of acres as potential *kuleana* parcels; about 10,000 claimants obtained approximately 30,000 acres. The *konohiki*, 252 chiefs, divided up about a million acres. Many Hawaiians were disenfranchised by these acts (Cordy et al. 1991).

The Alien Land Ownership Act was enacted on July 10, 1850, a statute that allowed foreigners (aliens) to obtain and sell fee simple estate in lands. The first foreigners filing applications to purchase land were the missionaries, soon thereafter were individuals who became engaged in the sugar industry. As early as 1852, natives petitioned those in power to sell the lands to natives first or to stop raising the price of lands so natives could afford to purchase them (Chinen 2002:135-140)

Native claims for land made to the Board of Commissioners to Quiet Land titles in 1848 also shed some light as to settlement and land use in the area during the early historic period. In Waimea Ahupua'a, more than 150 *kuleana* awards were granted (Kamai et al. 2015a:27). Fifteen claims were awarded in Kīkīaola 'Ili, on the west side of Kana'ana Ridge. Over 50 claims were awarded in the 'ili of Pe'ekaua'i, on the east and west sides of Kana'ana and Poki'i Ridge. The land east and west of the Kana'ana Ridge was mainly Crown and Government Land, some of which had already been given or sold to individuals and associations. The current project area is situated within and adjacent to Crown Land and several LCAs, which were primarily house lots, or *pahale*. Those nearest to the project area are listed in Table 1, which are not very close at all. Maps from the early twentieth century, (Figures 7), illustrate the location of LCA parcels in relation to the project area. Missionaries began arriving in Waimea in the early nineteenth century. In 1926, there was both flooding and an influenza epidemic in Waimea (Joerger and Streck 1979:10; Kamakau 1992:274). The flood caused extensive damage to both the *lo 'i* and the newly constructed western structures built by the missionaries. Over the next few decades, the population in the Waimea area declined dramatically until the 1870s (Schmitt 1977:13). Only three claims were made in and nearby. Elia Lihau (No. 6698) claimed all the land of Wai'awa (just west of Pōki'i), most of which was unused *kula*, but included a restricted fishery. This claim was never awarded (Board of Commissioners 1929: Native Testimony, Vol 11:155).

The only one to claim land in Kekaha was B. Naumu (No. 5386). Mentioned in this claim are *lo 'i*, a house lot, a salt bed (*aliapa 'akai*) and a *muliwai* (a pool near the mouth of a stream or an estuary) called Kapenu. Naumu developed the *lo 'i* in 1844, stating that it was previously overgrown land (Board of Commissioners 1929: Native Testimony, Vol 11:146).

Table 1. Land Commission Awards near the Project Area.

LCA	Awardee	Description
387:2	American Sandwich Island Mission	House lot with pastureland
5362:1, 3	Naumu	Lo'i, house, lot, salt bed and muliwai
7713:42	V. Kamamalu	Kīkīaola 'Ili

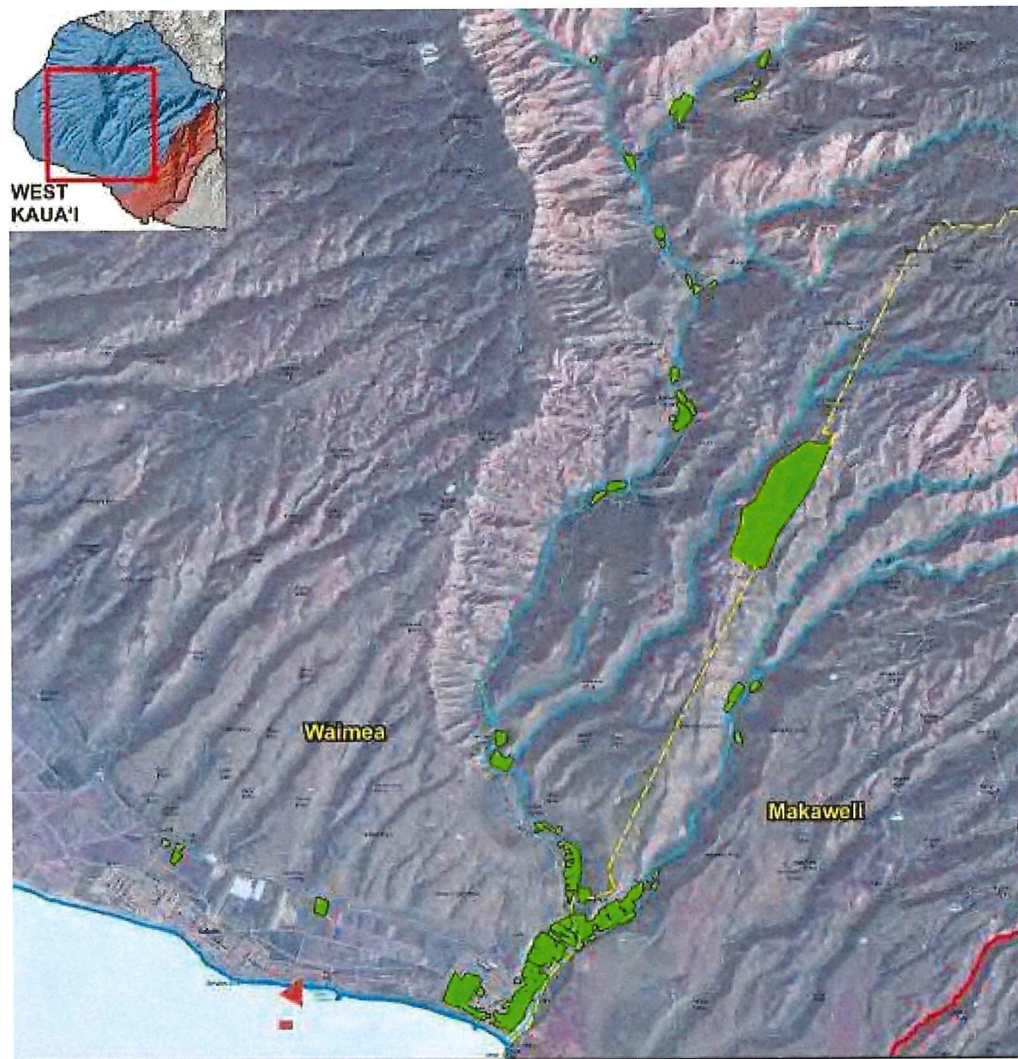


Figure 6. In green are the locations of the 150 LCA awards in Waimea. The red arrow is the project area.

Previous Archaeological Work

The closest and most germane studies to the project area are summarized below. Table 2 lists the historic properties near the project area and their associated studies.

Kikuchi and Remoaldo 1992

Kikuchi and Remoaldo (1992) conducted a survey and inventory of cemeteries on the island of Kaua'i. The Chinese Cemetery (SIHP # -00613, B005) and the Japanese Cemetery (SIHP # -00612, B004) are located west the current project area (see Figure 18). It was noted that the Chinese cemetery was surveyed but not sketched, however, the Japanese cemetery was only plotted on a map (Kikuchi and Remoaldo 1992:194).

Sinoto 1993

Sinoto (1993) conducted archaeological monitoring, a surface survey, and subsurface testing in three separate areas in Kīkīāola Land Company, Ltd. property. No significant findings occurred but, in a plan map, the identification of burials was noted on the property near the administration/restaurant building. SIHP # 50-30-05-01853 is noted as "graves" and "6+' deep," and SIHP # 50-30-05-01854 is a "grave" and "2' deep" (Sinoto 1993:3).

Hammatt and Chiogioji 1996

CSH (Hammatt and Chiogioji 1996) carried out an archaeological and historical assessment and field inspection of Kīkīāola lands with the project area including the Kīkīāola Small Boat Harbor and extensive lands just back from the coast to the west and east. Historic properties discussed include the Chinese Cemetery (SIHP # 50-30- 05-613 [SIHP #s for the cemeteries not given in report]) and Japanese Cemetery (50- 30-05-612) just north of the west end of the Kīkīāola Small Boat Harbor Sand Bypass project area, burial sites SIHP #s 50-30-05-1853 and 50-30-05- 1854 by the Waimea plantation cottages, the Catholic Church and Cemetery, and the Waimea Sugar Mill building.

Masterson et. al. 1994

In 1994, Masterson et. al. (1994a) conducted an inventory survey with subsurface testing west of the current project area. No surface sites were located. Extensive subsurface testing throughout the project area revealed two areas containing buried cultural layers (50-30-05-700, - 703) and two human burials (50-30-05-701, -702). It was suggested that additional human burials may be present due to the close proximity between the two discovered burials.

Hammatt 2001

In 2001, CSH conducted an archaeological inventory survey (no finds recorded as an archaeological assessment) within an approximately 82-km (51-mile) road corridor for a proposed fiberoptic cable project between Kekaha and Moloa'a. The objective for the survey was to identify areas within the corridors that have potential for subsurface historic properties including human burials and cultural deposits (Hammatt 2001:1). The study was evaluated according to a scale representing four levels of potential for yielding subsurface archaeological resources. The four levels are low, moderate, high, and very high (Hammatt 2001:12). The current project area is in Section 1, Kekaha to Waimea Athletic Field and has high potential for yielding subsurface archaeological findings (Hammatt 2001:12-13).

Hammatt 2004

CSH (Hammatt 2004) prepared a letter report summarizing the inadvertent discovery of human skeletal remains at the Aloha Kaua'i Villas (4491 Kikiaola Place) at Kikiaola close to the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. A minimum of three human burials were encountered during pool excavation and were designated SIHP # 50-30-05-3911 Features A–C. A description of the stratigraphy within the pool excavation and skeletal inventories are presented.

Cordy et al. 2005

CSH (Cordy et al. 2005) carried out an archaeological assessment with subsurface testing for an 8.2-acre parcel at Kīkīaola close to the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. The fieldwork consisted of the excavation of 52 backhoe trenches and documentation of the sediment profiles. No sites were identified. Although artifacts, particularly bottles, dating to the early and mid- twentieth century were identified there was no discrete horizontal or vertical aggregation of artifacts such as to warrant site designation. This report was not fully scanned and there were missing pages as to trench location and trench profiles.

Stein and Hammatt 2006

CSH (Stein and Hammatt 2006) reported on archaeological monitoring and inadvertent burial recovery for an approximately 0.23-acre parcel within the Kekaha House Lots (TMK: [4] 1-3-05:45) quite close to the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. During excavations for a septic system with a leaching bed the crew discovered human remains. Two human burials were designated SIHP # 50-30-05-3941. Due to the lack of historical artifacts or coffins associated with the remains and because both burials were found in either a flexed or semi-flexed position these burials were regarded as likely pre-Contact interments. Dog bones were also observed.

Shefcheck and Dega 2006

In 2006, Scientific Consultant Services (SCS) conducted an archaeological assessment for a 4,400-sq-ft residential lot in Kekaha, TMK: (4) 1-3-005:044 (Shefcheck and Dega 2006:1). Five test trenches were excavated in the house footprint prior to construction. There were no significant findings, however, archaeological monitoring was recommended due to inadvertent findings in the neighboring lot (Shefcheck and Dega 2006:6).

Powell et al. 2009

Scientific Consultant Services (Powell et al. 2009) produced a historical summary of the former fishpond location and evaluation of the potential for human skeletal remains at TMK: [4] 1-3-005:053 located immediately west of the west end of the Kīkīaola Small Boat Harbor Sand Bypass project area. Information gathered suggests that Kekaha Sugar Company established a fishpond in 1957 in an existing pond area on Parcel 53 to raise tilapia to feed on the vegetation clogging irrigation ditches. SCS interviewed 74-year-old Willy Martin, a former employee of Kekaha Sugar Company, who was born and raised in Kekaha. Sometime in 1959 or 1960 Mr. Martin was instructed by the plantation to fill in the fishponds on Parcel 53. The “fill” material was to come

from a sand dune on the western side of Parcel 40. Parcel 53 is immediately adjacent to the eastern boundary of Parcel 40. Both parcels were owned by the Knudsen family. “There were a lot of bones” collected in burlap bags and interred in the pond as it was filled (Powell et al. 2009:10.)

Pestana et al. 2009

In 2009, SCS conducted archaeological monitoring for a 10,864-sq-ft parcel in Kekaha, TMK: (4) 1-3-005:052 LOT 1 for a septic water system installation project following the discovery of inadvertent findings or human remains. The disarticulated inadvertent findings represented a minimum of two individuals and was designated SIHP # 50-30-05-05030.

McMahon, 2015

In 2014, (McMahon 2015) monitored the dredging of Kīkīāola Small Boat Harbor for the Army Corp. of Engineers and the staging for the dredged material on Kīkīāola Land Company Ltd. near the Harbor. There were negative findings.

Kamai et. al. 2023

Recently (report in progress) CSH monitored a property nearby (Harbor House) for a guess house and its septic system. There were negative findings.

Table 2. Previously identified historic sites near the project area.

SIHP #	Site Type	Reference
50-30-05-00612 (B004)	Japanese Cemetery	Kikuchi and Remoaldo 1992
50-30-05-00613 (B005)	Chinese Cemetery	Kikuchi and Remoaldo 1992
50-30-05-02098	Burials	Powell et al. 2009
50-30-05-03881	Burials	Powell et al. 2009
50-30-05-03911	Burials	Hammatt 2004
50-30-05-03941	Burials	Stein and Hammatt 2006
50-30-05-05030	Burials	Pestana et al. 2009

Predicted Findings

Pre-contact burials will likely be located within pits and be associated with pre-contact habitation deposits. Post-contact burials will typically be located within extended pits with possible evidence of coffin material and/or grave goods associated with the post-contact period (metal jewelry or other Asian or European objects), which may be present. Habitation deposits will frequently be evident in the stratigraphy as dark-colored sand with features such as postholes and firepits, artifacts, and food remains (marine shell, bone, and kukui endocarps etc.). The post-contact deposits will contain ceramic, metal and glass. Agricultural features such as irrigation ditches, fishponds and irrigated fields, and the sand berms that were often built along the edges of ponds and fields may be found in trench profiles, but it is not likely in this area.

Methods

On November 25th, 2022, Field Archaeologist, Linz Armstrong, B.A. of EAL performed a 100% pedestrian survey of the project but the project area during the mowing, and ground visibility was great. Figure 8 shows the pedestrian survey sweeps. Pedestrian sweeps were made across the parcel in a north/south direction, approximately 5 – 8 meters apart. Figures 9 -11 show the modern trash found during the pedestrian survey.

On December 8th, 2022, Principal Investigator, Nancy McMahon, M.S., M.A., M.Ed. and Field Archaeologist, Linz Armstrong, B.A. returned to the project location to perform the subsurface survey. A backhoe (a Kobota U55 with a 2.5 “ bucket) from the North Shore Land Management Company, (Billy was the operator) was used to conduct the test trenching. Four test trenches were placed across the property in location where proposed single-family residence, boatshed, septic tank and leachfield (Figure 12).

EAL used a Trimble RI mapping grade GPS unit with a real-time differential correction. This unit provided sub-meter horizontal accuracy in the field.

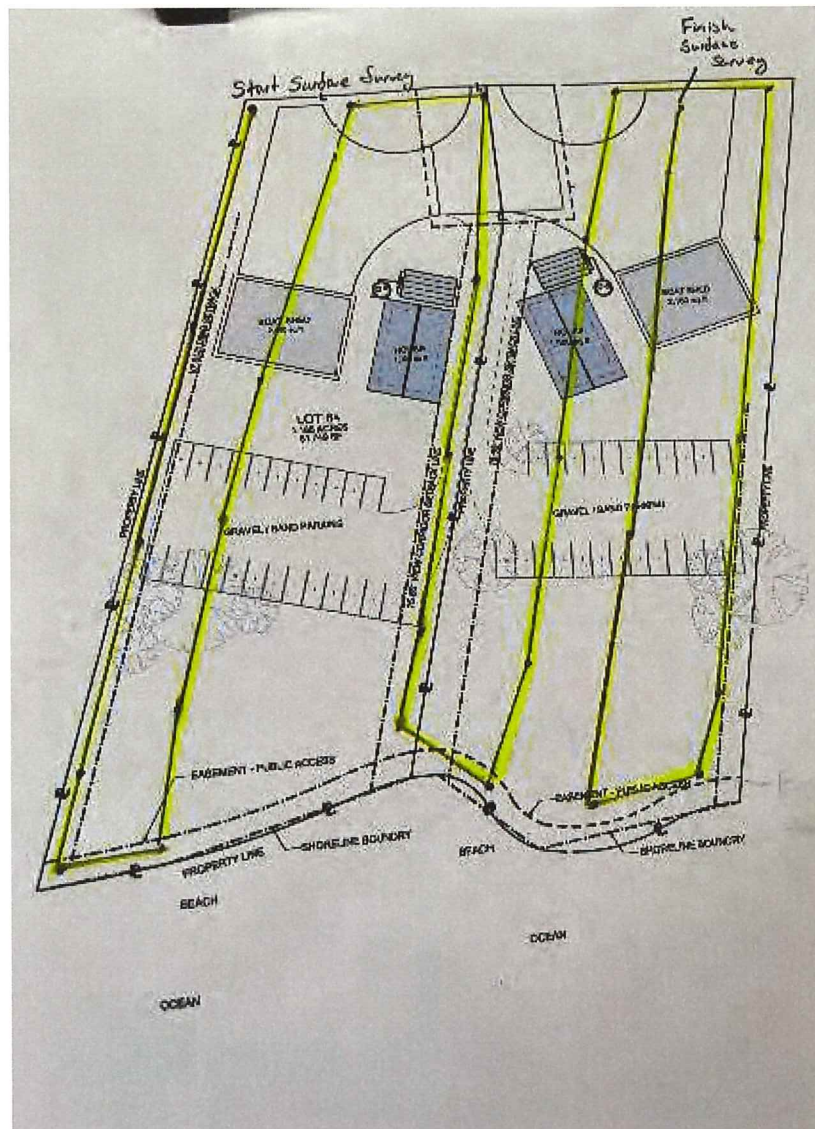


Figure 7. Pedestrian survey coverage on the two parcels: 39 and 40.



Figure 8. View project area during pedestrian survey looking south and northwest.



Figure 9. Modern trash found during surface survey.



Figure 10. Cement cylinder.

Subsurface Testing

Initially five test trenches were planned but the fifth trench was in the purposed parking lots which did not require much excavation other than filling and leveling. So, this trench was omitted from the testing strategy. The subsurface testing program involved four (4) backhoe trench excavations (T1 through T4) (Figure 12). In general, trenches measured approximately 6.1 meters (m) long by 1 M wide were excavated down to at least 1 M and 2 trenches to approximately 2 M within the project area.

A stratigraphic profile of each test excavation was drawn and photographed. The observed sediments were described using standard USDA soil description observations/terminology. Sediment descriptions included Munsell color; texture; consistence; structure; plasticity; cementation; origin of sediments; descriptions of any inclusions such as cultural material and/or roots; lower boundary distinctiveness and topography; and other general observations. Stratigraphic anomalies or potential cultural deposits were not found or exposed. A representative test excavation profile was made and presented for each test trench (Figures 13-16).

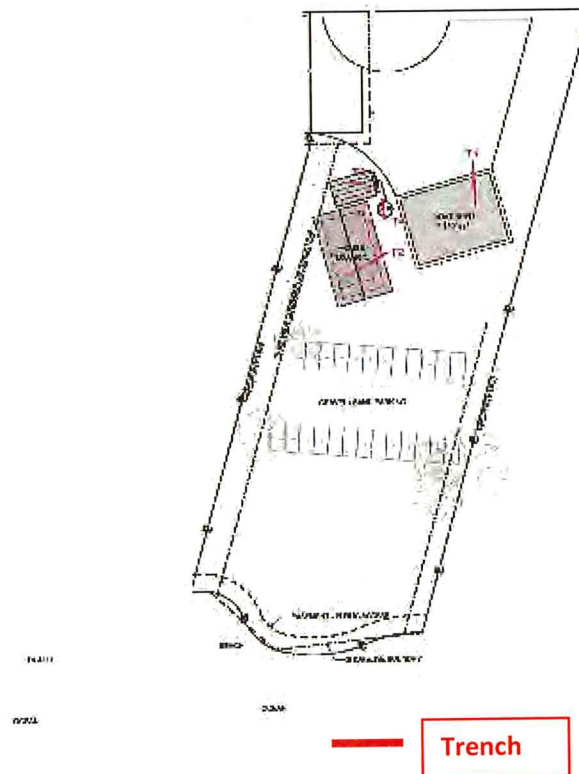


Figure 11. Trench locations.

Test Trench Properties

The stratigraphy within the project area was simple, consisting of three distinct strata. Each of these strata were based on color and composition changes (Table 3). Because stratigraphy proved to be regular throughout the test trenching, numbering of each stratum will be consistent and correlated between profiles.

The four (T1-4) trench dimensions were approximately 6.1 M length x 1 M wide x 1 – 2.0 M in depth. The trench locations orientation, length and depth varied. Excavation depth was determined by the estimate of the construction disturbance. Figure 12 shows the test trench locations. All trench (Table 4) locations had UTM coordinates. Trenches' UTM position was taken from both ends of the trench, but Table 4 reports the UTM at the northern or eastern end of the trench.

Table 3. Soil Descriptions.

STRATUM	SOIL DESCRIPTIONS
O-Horizon Level I 0-10 cmbs	10 YR 3/2 very dark grayish brown silty sand; inclusions of grass, modern trash, rocks, roots & rootlets; weak, very fine, single grain structure; dry loose consistence; non-sticky wet consistence; non-plastic; no cementation; clear and sometimes diffuse, smooth lower boundary
Level II 11-90/100.3 cmbs	2.5 Y 3/2 very dark grayish brown sand; inclusions of grains of 2.5 Y 4/3 (olive brown), weak, very fine, single grain structure; very friable moist consistence; non-sticky wet consistence; non-plastic; no cementation; abrupt smooth lower boundary
T4 Level III 100.4-200 cmbs	2.5 Y 3/3 very dark grayish brown sand; inclusions of lighter, olivine & brown, gray grains; weak, medium fine, single grain structure; very friable moist consistence; non-sticky wet consistence; non-plastic; no cementation, abrupt smooth lower boundary.

Table 4. Trench UTM, Length and Depth.

Bearings			Length	Depth	
T1	Easting: 428240mE	Northing: 2428678mN	6.2 M	1.0 M	Boatshed
T2	Easting: 428252mE	Northing: 2428672mN	11.4 M	1.25 M	House
T3	Easting: 428252mE	Northing: 2428678mN	6.1 M	1.5 M	Leachfield
T4	Easting: 428254mE	Northing: 2428688mN	3.7 M	2.0 M	Tank

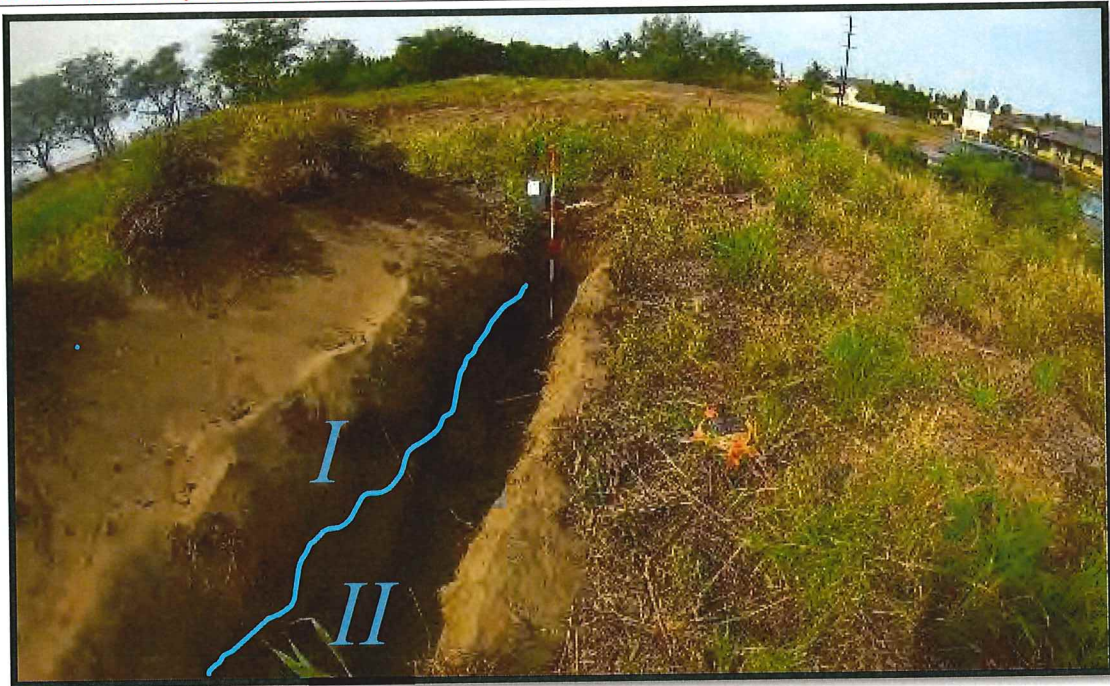


Figure 12. T-1 Looking west.



Figure 13. T-2, looking northwest.



Figure 14. T-3, looking southeast.

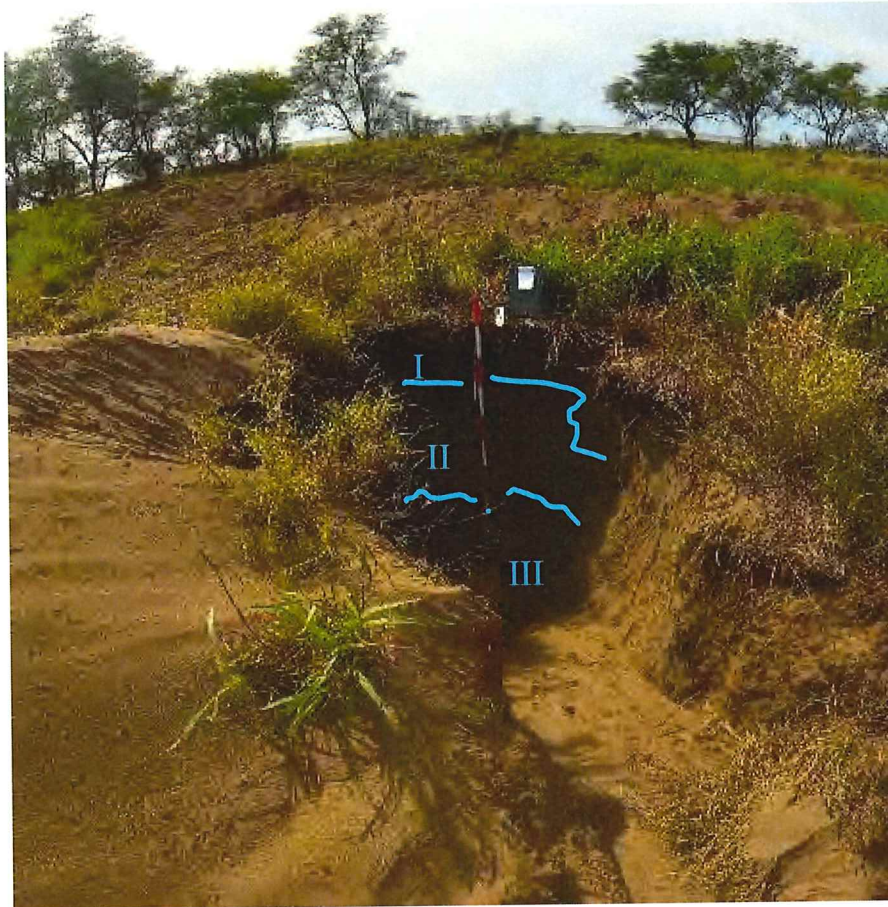


Figure 15. T-4, looking south.

Results

The pedestrian inspection identified no historic properties within the project area, most of which had already been disturbed by recent activity for pasture, cane and modern trash dumping grounds.

Subsurface testing conducted across the project area in locations that are to be developed yielded negative findings. As indicated through the previous archaeology research conducted within the vicinity of the project area also suggests no historic properties remain.

Recommendations

No historic properties were identified within the project area. The AIS results support a project determination of “no historic properties affected” for the current project. Because of these results the AIS becomes an Archaeological Assessment (AA). The AA fulfills the requirements of HAR



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§13-276-5. No additional survey or data recovery is recommended for this project area, as no historic properties or human remains were encountered during testing.

This fact is surprising, considering the proximity of a historic cemetery, the environment, and prehistoric settlement pattern in the region, we still feel that the area is sensitive and recommend a combination of on-site and on-call monitoring for the deeper excavation work i.e septic system. After monitoring commences, if there continues to be no subsurface finds, that monitoring might then be amended from on-site to on-call, with agreement from an SHPD.

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EXPLORATION ASSOCIATES LTD

3-2600 Kaumualii Hwy 1300-#306, Lihue, Kauai 96766

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3-2600 Kaumualii Hwy 1300-#306, Lihue, Kauai 96766

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EXHIBIT "G-1"



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. Box 3378
Honolulu, Hawaii 96801-3378

1/18/2023

Randall T N Haraguchi
PO Box 439
Anahola, HI 96703

Dear Sir/Madam:

Subject: Individual Wastewater System (IWS) for
Owner/Lessee: Nathaniel Fisher
Project Site: Lot 64 Kaumualii Hwy Kekaha, HI
TMK: 412013039
IWS File No.: 70809 (Septic Tank)

The subject plans have been reviewed by the Wastewater Branch for conformance to applicable provisions of Hawaii Administrative Rules, Title 11, Chapter 62, entitled Wastewater Systems.

The IWS plan does not conform to applicable provisions of Chapter 11-62.

The following comments must be addressed before the Department can concur with the plans (See applicable items below).

Additional Remarks

Additional Remarks A certified shoreline determination is required prior to IWS approval. Also, the Planning Dept. has indicated that the project may not be approved due to possible violations on the property.

Should you have any questions, please feel free to contact Lori Vetter at 241-3321.

Sincerely,

SINA PRUDER, P.E.
Chief, Wastewater Branch



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. Box 3378
Honolulu, Hawaii 96801-3378

1/18/2023

Randall T N Haraguchi
PO Box 439
Anahola, HI 96703

Dear Sir/Madam:

Subject: Individual Wastewater System (IWS) for
Owner/Lessee: Nathaniel Fisher
Project Site: Lot 65 Kaumualii Hwy Kekaha, HI
TMK: 412013040
IWS File No.: 70808 (Septic Tank)

The subject plans have been reviewed by the Wastewater Branch for conformance to applicable provisions of Hawaii Administrative Rules, Title 11, Chapter 62, entitled Wastewater Systems.

The IWS plan does not conform to applicable provisions of Chapter 11-62.

The following comments must be addressed before the Department can concur with the plans (See applicable items below).

Additional Remarks

A certified shoreline determination is required prior to IWS approval. Also, the Planning Dept. has indicated that the project may not be approved due to possible violations on the property.

Should you have any questions, please feel free to contact Lori Vetter at 241-3321.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sina Pruder".

SINA PRUDER, P.E.
Chief, Wastewater Branch

Thanks!

EXHIBIT "G-2"

Ian K. Jung

From: Graham Chelius <grahamchelius@gmail.com>
Sent: Sunday, December 17, 2023 8:23 PM
To: ridica@kauai.gov
Cc: Ian K. Jung
Subject: Comment on 2023-12-08-KA-DEA-Commercial-Boat-Facility-and-Residences-at-Kikiaola

Aloha,

I have met with Mr. Fisher and reviewed the planned development documents.

I live close by at 4491 Kikiaola Place, about 4 lots to the west. As a neighbor to the property, I feel the plan is appropriate for the neighborhood and will not negatively affect us, the property values, or the current nature of the neighborhood.

I expect the development will benefit the neighborhood in several ways:

- 1) Reduced fire risk: Currently undeveloped property in this neighborhood generally has overgrowth of dry grass and creates a fire risk. Having the development will result in control of the overgrowth.
- 2) Reduced Crime: Our next door neighbor has had people who are living on the empty property enter her property. This development will reduce the chance that someone who has set up a living situation on the undeveloped lot will repeat this unwanted intrusion.
- 3) Increased property values: Supply and demand economics would predict that fewer available properties would reduce supply, increasing values of all neighboring properties.

Overall, I support this development plan and have no concerns.

Graham Chelius
4491 Kikiaola Place
Mailing address: PO Box 414 Waimea HI 96796

EXHIBIT "G-2"

EXHIBIT "G-3"

Ian K. Jung

From: Greg Holzman <cycads@hawaii.rr.com>
Sent: Sunday, January 7, 2024 6:53 PM
To: Ian K. Jung; Ridica@kauai.gov
Subject: Kauai Boat Facility

To whom it may concerned

I am a long time Kekaha Resident and fisherman.

I have used kikiaola small boat harbor since the 1980's I live within a 1/4 of the harbor.

From what I see in report it seems like a great Idea.

Keeping traffic down but having private parking for cars as often times we need the space for parking trailers

I support the project and less congestion at the harbor.

Thank you for your consideration.

Greg Holzman
PO Box 764
Kekaha Hi 96752

EXHIBIT "G-3"

EXHIBIT "G-4"

Ian K. Jung

From: joyce yamase <joyceyamaseomao@gmail.com>
Sent: Thursday, January 4, 2024 9:15 AM
To: Ian K. Jung
Subject: Kekaha boat facility

Aloha,

My name is Kevin Yamase, 67 years old, born and raised Kaua'i commercial fisherman for over 37 years and counting.

Over the years, I have had my fair share of interactions with the tour boat operators at the various harbors here on Kaua'i. Some operators are very respectful, others not so much. I commend this outfit for wanting to reduce footprint at the harbor to make access easier for fishermen like myself.

For what it's worth, from a local fisherman's perspective, I support this project.

Mahalo,
Kevin Yamase
Yamase Enterprises
[808 639 3140](tel:8086393140)

EXHIBIT "G-4"

EXHIBIT "G-5"

Dec 30th 2023

Aloha,

My name is Captain Lani Kahaunaele, born and raised in Anahola, now residing in Hanapepe, Kaua'i for the last 25 years with over 52 years of experience working in the visitor industry.

I have been in the Na Pali boating industry since the early 80s and was one of the first tour boat operators out of Hanalei. In 1998 the state forced my legal operation (and many others) to shutdown. My life's work, my pride and joy, and especially as a Hawaiian, this was devastating and discriminatory and I still think about it every day.

I now operate my Na Pali tours out of Port Allen, being the first to make the move from Hanalei to Port Allen back in September of 1998.

The point of me sharing this background is to showcase my familiarity with the commercial boating industry on Kaua'i and how it can impact and often impede on local residents, and then the drastic measures government often takes after it's too late.

I am familiar with the project and I can tell you that this boating facility will reduce or even eliminate impact at nearby Kikiaola harbor and this is the type of proactive, forward thinking, well thought out projects that I myself and many other locals would wholly support.

If you don't support and help the companies that seek to do things right, I am fearful another Hanalei will happen at Kikiaola except even worse. Worse because these operators will have no where else to relocate to as I did so many years ago.

Support projects like these that serve the public while keeping local businesses alive.

A handwritten signature in black ink that reads "Captain Lani". The signature is written in a cursive, flowing style.

Mahalo,
Captain Lani

EXHIBIT "G-6"

Ian K. Jung

From: Pete Fisher <pete@hawaii.rr.com>
Sent: Tuesday, December 19, 2023 3:07 PM
To: Ian K. Jung
Subject: Kekaha Boating Facility Draft EA Comment

To whom it may concern,

My name is Pete Fisher and I am the owner of Kayak Wailua, a tour operator on Kaua'i that I feel has striking similarities to the proposed Kekaha Boat Facility project.

After reviewing the EA for the Kekaha Boating facility, I am convinced that my business, property, and use permit are likely the most comparable operation to this Kekaha project island wide. I have compiled a list of key similarities below.

1. The project aims to redirect parking to private land in order to relieve congestion in a public use area. (Kayak Wailua's parking used to be along the Wailua Shell Gas station's Papaloa Road before being granted our use permit for our property on Apana Road). This transition allowed us to remove a long line of cars which was admittedly an eyesore and return the parking to the general public. As it turns out, the parking area later went on to become a portion of the Kapaa bike path.
2. The project appears to shuttle guests to the harbor, just as we shuttle our guests to the Wailua Marina launch ramp. This improves efficiency once in the public use area being that all guests have already gone through the staging process, and now just need to launch and be on their way. (no more waiting for a late group or for someone using the restroom, putting on sunscreen, etc).
3. The project appears to have its own restroom facilities in which guests will use prior to being shuttled to the harbor. This completely removes impact to the public harbor facilities and expedites the boarding process which drastically reduces the time in the launch/retrieval congestion areas. We have experienced this first hand with Kayak Wailua.
4. This project indicates 2 dwellings which according to the study appear to be public long term and/or employee housing. Yet again, Kayak Wailua also has 2 dwellings rented partially for employee housing and partially for long term public rentals.

The 2 projects are essentially identical, trading kayaks for boats. Kayak Wailua has been operating with the use permit since the early 2000's and has never had any issues with the general public since relocating to private land.

Kayak Wailua's use permit in my opinion was a win all around, to the public, our customers, our employees, and administrators. I hope to see this Kekaha Boating Project have similar success creating wins all around.

EXHIBIT "G-6"

Mahalo,

Pete Fisher

DEPARTMENT OF PLANNING

KA'ĀINA HULL, DIRECTOR

JODI A. HIGUCHI SAYEGUSA, DEPUTY DIRECTOR



DEREK S.K. KAWAKAMI, MAYOR
REIKO MATSUYAMA, MANAGING DIRECTOR

TRANSMITTAL OF SUPPLEMENTAL INFORMATION TO PLANNING COMMISSION

April 3, 2024

PERMIT NUMBER: Special Management Area Use Permit SMA(U)-2024-8
Class IV Zoning Permit Z-IV-2024-3
Use Permit U-2024-3
Shoreline Setback Variance Permit SSV-2024-1

APPLICANT: Nathaniel Fisher

1. Attached for Planning Commission's reference is supplemental information to project's application.

F.2.a.1.

APR 09 2024

BELLES GRAHAM LLP

IAN K. JUNG 8626-0
4334 Rice Street, Suite 202
Lihue, Kauai, Hawaii 96766
Telephone: (808) 245-2163
Facsimile: (808) 245-3277
Email: ikj@kauai-law.com

Attorney for Applicants,
NATHANIEL FISHER

BEFORE THE PLANNING DEPARTMENT
OF THE
COUNTY OF KAUAI

In The Matter Of The Application	)	SHORELINE SETBACK VARIANCE
	)	SSV-2024-1
Of	)	SPECIAL MANAGEMENT AREA
	)	USE PERMIT SMA(U)-2024-8
NATHANIEL FISHER, for a Shoreline	)	USE PERMIT U-2024-3
Setback Variance, Special Management Area	)	CLASS IV ZONING PERMIT
Use Permit, Use Permit, and Class IV Zoning	)	Z-IV-2024-3
Permit for property described as Lot 83-B-1,)	
and further identified by Lots 64 and 65 of)	
Land Court Application No. 1076 (Map 35),	)	FIRST SUPPLEMENT TO APPLICATION;
Kekaha, Kaua'i Tax Map Key Nos.:	)	REVISED EXHIBITS "E-1" AND "E-2";
(4) 1-2-013:039 and 040.	)	NEW EXHIBIT "E-3".
)	
)	

I. FIRST SUPPLEMENT TO APPLICATION

Nathaniel Fisher ("Applicant") hereby submits its First Supplement to the Shoreline Setback Variance, Special Management Area Use Permit, Use Permit and Class IV Zoning Permit Application to construct a Commercial Boat Facility and two (2) Residential Dwellings on properties identified as Lot Nos. 64 and 65 of Land Court Application No. 1076 (Map 35), and further identified as TMK Nos. (4) 1-2-013:039 and 040 (collectively "Subject Properties").

The proposed Project remains consistent with the proposed use and footprint of the structures noted in the Final Environmental Assessment and Application, dated January 17, 2024. However, the Applicant revised the design of the structures and included grading plans for the gravel parking and driveway as follows:

- A. Lot 64 (Revised Exhibit "E-1"):
 - 1) Single-family Dwelling Unit (1,013 square feet);
 - 2) Boat Shed (2,112 square feet);
 - 3) Grading for Gravel Parking and Driveway (Revised Exhibit "E-3");
 - 4) Fencing; and
 - 5) Related Site Utilities.
- B. Lot 65 (Revised Exhibit "E-2"):
 - 1) Single-family Dwelling Unit and Deck (1,213 square feet);
 - 2) Boat Shed (2,112 square feet);
 - 3) Grading for Gravel Parking and Driveway (Revised Exhibit "E-3");
 - 4) Fencing; and
 - 5) Related Site Utilities.

Attached are revised Exhibits "E-1" and "E-2" are the Project Plan Sets for the respective Subject Properties along with the new Exhibit "E-3" noting the proposed Project Grading Plans.

As discussed in the Application, the location of proposed Project structures and grading remain outside the Flood Zone AE as well as the Sea Level Rise Constraint District area. As such, no immediate coastal impacts are anticipated for the Project.

II. CONCLUSION.

The Applicant respectfully requests that the Planning Commission:

1. Find that the Project will not have any substantial environmental or ecological effect, except as such adverse effect is minimized to the extent practicable and clearly outweighed by public health, safety, or compelling public interest.


2. Find that the Project is consistent with the objectives, policies, and guidelines set forth in Hawaii Revised Statutes Chapter 205A and Sections 3.0 and 4.0 of the SMA Rules.

3. Find that the Project is consistent with permitted uses in the SLUC Urban District, the Kauai General Plan, the West Kauai Community Plan (Open Coastal Edge), and the CZO Open District.

4. Approve the issuance of a Shoreline Setback Variance, SMA Use Permit, Use Permit and Class IV Zoning Permit for the Project on the Subject Property as described herein, subject to such reasonable conditions as the Planning Commission shall impose.

DATED: Lihue, Kauai, Hawaii, 3/28/2024.

BELLES GRAHAM LLP

By 

IAN K. JUNG
Attorney for Applicant, NATHANIEL FISHER

- NOTES
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL DIMENSIONS ON DRAWINGS BETWEEN THE ANGLES OF DIMENSION LINES SHALL BE IN FEET AND INCHES TO THE NEAREST 1/8". DIMENSIONS SHALL BE IN FEET AND INCHES TO THE NEAREST 1/8". DIMENSIONS SHALL BE IN FEET AND INCHES TO THE NEAREST 1/8". DIMENSIONS SHALL BE IN FEET AND INCHES TO THE NEAREST 1/8".
 3. DIMENSIONS ARE INDICATED BY DIMENSION LINES UNLESS OTHERWISE NOTED.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODES (IBC) AND THE INTERNATIONAL MECHANICAL AND ELECTRICAL CODES (IMC).
 5. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL AND ELECTRICAL CODES (IMC) AND THE INTERNATIONAL BUILDING CODES (IBC).
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

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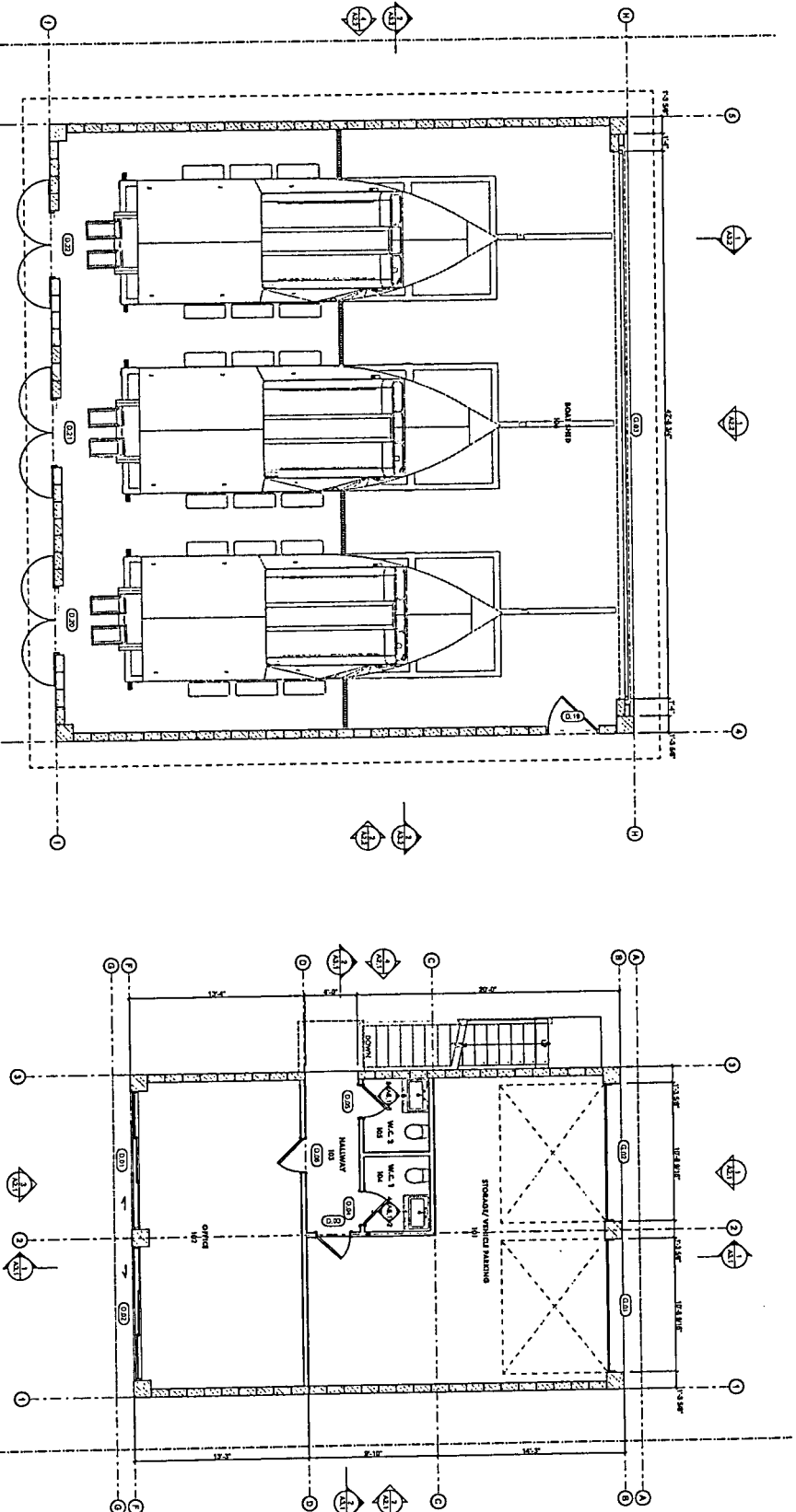
NOHO WORKSHOP
1870 KODOL RD.
KODOL, IN 46034
E: info@nohowspace.com

CLIENT

MATTHEW ROSE
KODOL, IN 46034

CERTIFICATION

PROJECT
NATE - HALE
WATA (LOT
64)
PROJECT ADDRESS
1500 S. 10TH AVE.
KODOL, IN 46034
PROJECT NUMBER: 2018
ISSUE DATE: 05/24
DRAWING ISSUE:



1ST FLOOR
SCALE: 1/8" = 1'-0"

A1.2

A04

1. THE CONTRACTORS SHALL VERIFY ALL DANGEROUS AND CONCEALED AT RISK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL DISCUSSION OF CONTRACTS BETWEEN THE VARIOUS ELEMENTS OF THE WORK SHOWN AND NOTED THE SPECIFICATIONS SHALL BE SUBJECT TO A MEMORANDUM OF UNDERSTANDING BETWEEN THE CONTRACTOR AND THE WORK MANAGER.
3. LONGTERM THE INCALCULATE OF STRUCTURE CLASSIFICATION NOTES.
4. SPECIAL SPECIAL PLAN AND APPROVED BY THE DEPARTMENT OF HEALTH DESIGN AND INSPECTED BY THE CONTRACTOR.
5. A LIST OF BEST MANAGEMENT PRACTICES TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS.
6. A LIST OF BEST MANAGEMENT PRACTICES TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS.
7. A LIST OF BEST MANAGEMENT PRACTICES TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS AND TO BE PROVIDED TO ALL WORKERS.

noho
——
工作坊

NOHO WORKSHOP
KANOA CHUNG
ARCHITECT, AR-18731
1870 KOLD RD.
KILAUEA, HI 96754
P: 808-861-8878
E: KANOA@NOHO-WORKSHOP.COM

CLIENT

NATHANIEL FISHER
KAUIMUALLI HWY,
KOKAHA, HI 96752

CERTIFICATION

The undersigned hereby certifies that the
 information furnished herein is true and
 correct to the best of his knowledge and
 belief, and that he is not aware of any
 facts which would render the same
 misleading or incomplete.

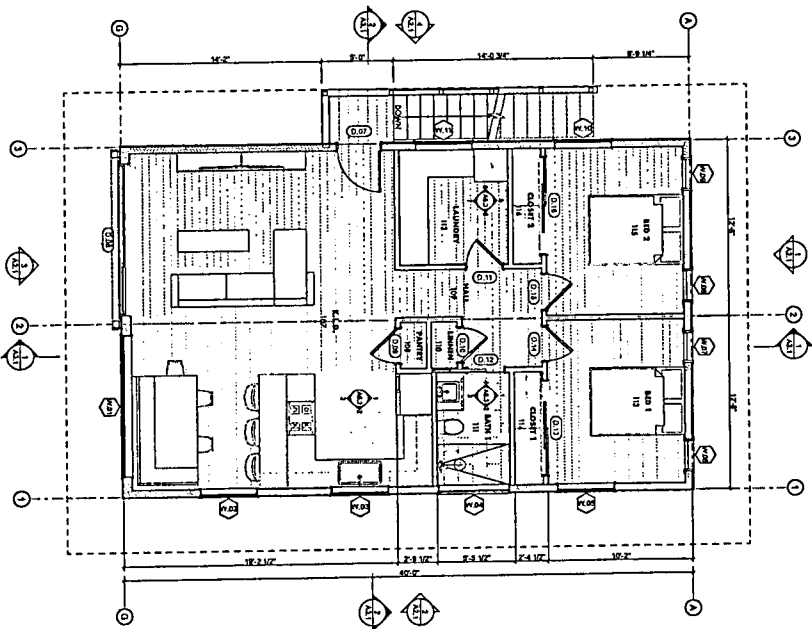
PROJECT
NATE - HALE
WYA (LOT
64)
 #Sheet Address
 (4) 1-2-013-029-0000
 PROJECT NUMBER: 22018
 ISSUE DATE: 3/25/24
 DRAWING ISSUE:

2ND FLOOR PLAN

A1.3

PERMIT ID

2ND FLOOR
SCALE: 1/4" = 1'-0"



NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION.
2. ALL DIMENSIONS ON DRAWINGS BETWEEN THE WORKS SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE PROJECT BEFORE PROCEEDING WITH ANY CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENVIRONMENT AND THE ADJACENT PROPERTIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC SAFETY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT SITE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT DOCUMENTS.

ARCHITECT

noho
工作坊

NOHO WORKSHOP
1000 W. 10TH AVE.
SUITE 100
DENVER, CO 80202
P: 303.733.8000
E: INFO@NOHOWORKSHOP.COM

CLIENT

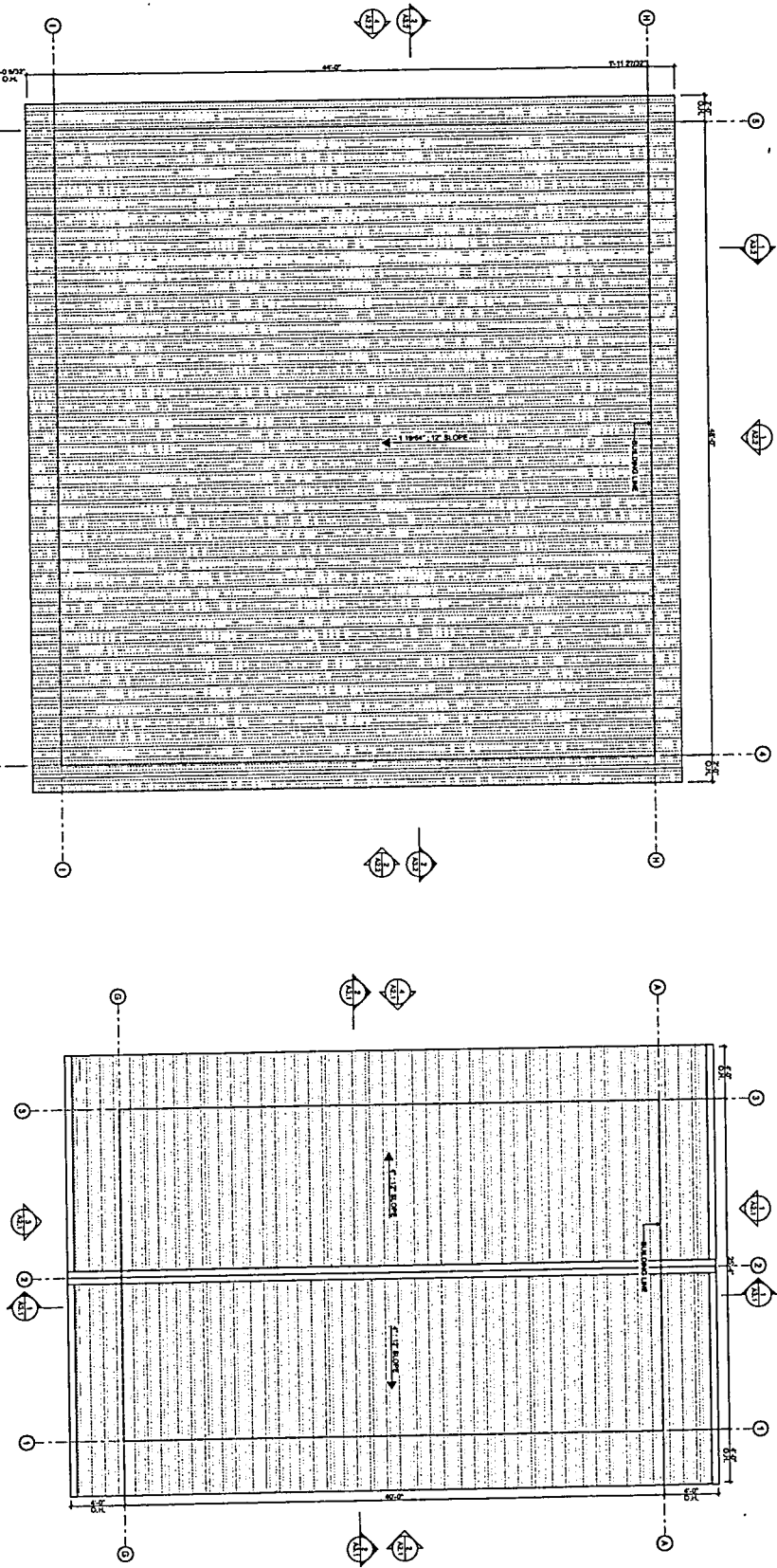
WATSON, ERIK
KATHLEEN
KOBAL, IS 80152

CERTIFICATION

PROJECT

NATE - HALE
WYA (LOT
64)

Signed: [Signature]
PROJECT NUMBER: 22018
ISSUE DATE: 2024
DRAWING ISSUE:



1 ROOF RIDGE
SCALE 1/8" = 1'-0"

ROOF PLAN

A1.4

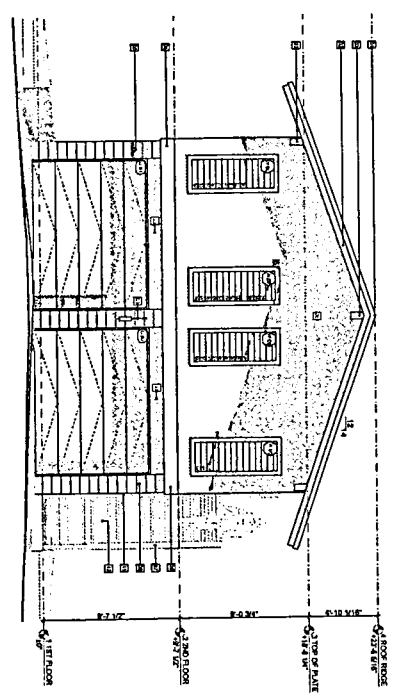
RESULT ID

A06

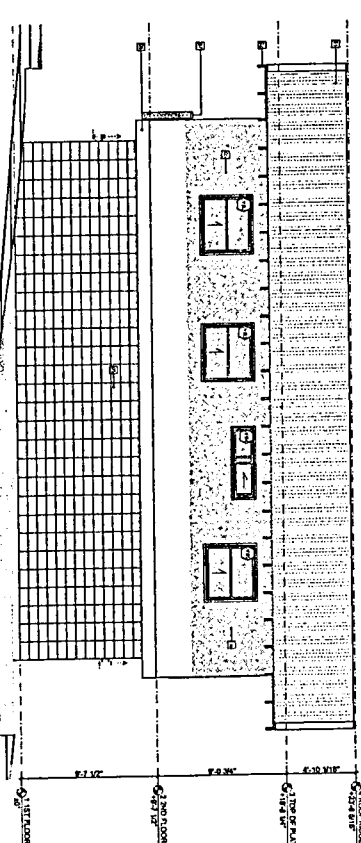
- ELEVATION AND SECTION KEYNOTES**
- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION.
 - 2. ALL DIMENSIONS ON ELEVATIONS BETWEEN THE DIMENSION LINES SHALL BE GIVEN TO THE NEAREST 1/8" (3.175 mm).
 - 3. ALL DIMENSIONS ON SECTIONS SHALL BE GIVEN TO THE NEAREST 1/8" (3.175 mm).
 - 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.
 - 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.
 - 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.
 - 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.
 - 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.

CLIENT
NATIVE CENTER
1810 KOLA RD.
KANSAS CITY, MO 64111
TEL: 816.241.1234
WWW.NATIVECENTER.ORG

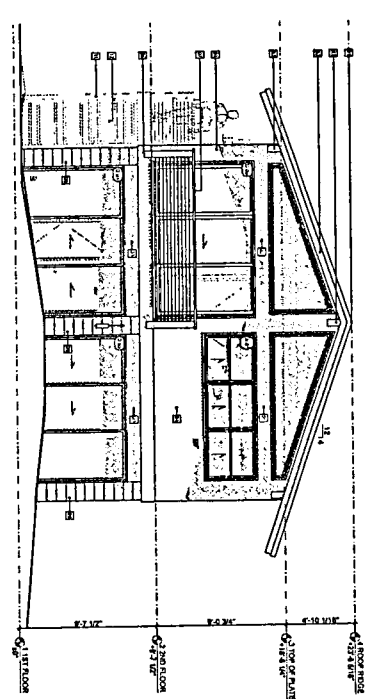
ARCHITECT
noho
工作坊



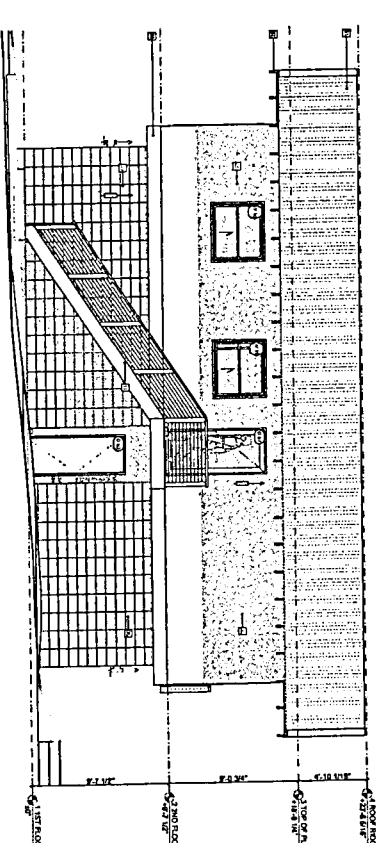
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SCALE 1/8" = 1'-0"



2 EAST
SCALE 1/8" = 1'-0"



3 SOUTH
SCALE 1/8" = 1'-0"



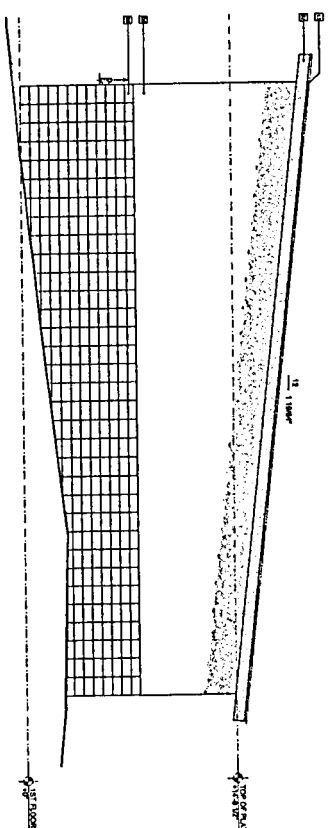
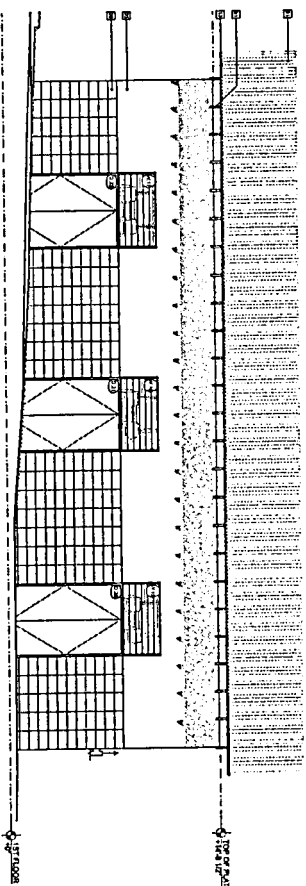
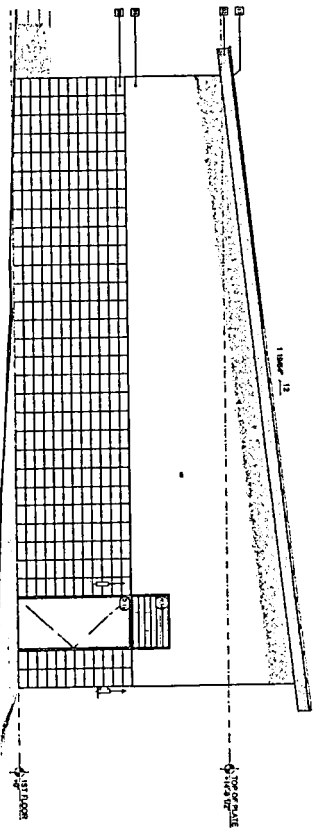
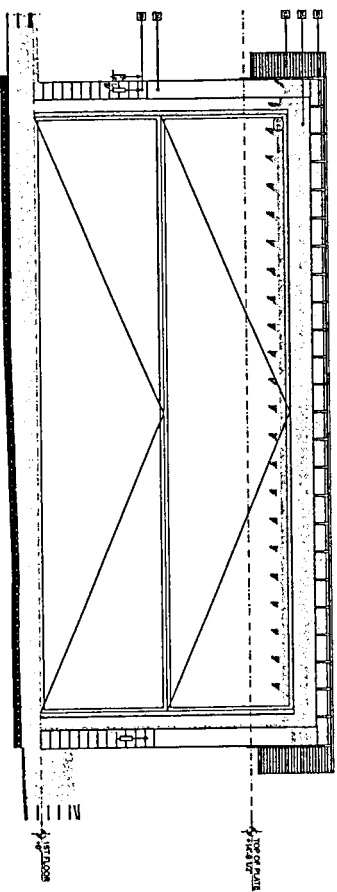
4 WEST
SCALE 1/8" = 1'-0"

PROJECT
NATE - HALE
WYA (LOT)
641

CLIENT
NATIVE CENTER
1810 KOLA RD.
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ARCHITECT
noho
工作坊

EXTERIOR ELEVATIONS
A2.1
RESULT ID
A09



- ### ELEVATION AND SECTION KEYNOTES
- | | |
|----|-------------------------------------|
| 1 | CONCRETE W/AL DOOR FRAME (C/RY) |
| 2 | EXPOSED RAFTER/FRAMING PLYWOOD |
| 3 | STRUCTURAL STEEL PLYWOOD |
| 4 | STRUCTURAL WOOD COLLAR PLYWOOD |
| 5 | STRUCTURE EXTENSION FRAMING PLYWOOD |
| 6 | BELLY BOARD PLYWOOD |
| 7 | DOCK BUILDING FLOOR - NATURAL FRU |
| 8 | DECORATED FLOOR - NATURAL FRU |
| 9 | CAD WALL MATERIAL PLYWOOD |
| 10 | ADVANCED DOCKING PLYWOOD |
| 11 | STEEL STRIPPER PLYWOOD |
| 12 | STEEL THROAT GIRD |

1. THE CONTRACTOR SHALL NOTIFY ALL DIVISIONS AND COOPERATE WITH ALL DIVISIONS IN THE PREPARATION OF CONTRACTUAL ATTENTION TO COORDINATION OF CONTRACTUAL.
2. ALL DIVISIONS OR CONTRACTS BETWEEN THE DIVISIONS SHALL BE COORDINATED WITH THE CONTRACTOR. THE SPECIFICALLY SHALL BE PROVIDED TO THE ATTENTION OF THE APPLICABLE BEFORE PROCEEDING WITH ANY WORK INVOLVED.
3. DIVISIONS ARE RESPONSIBLE FOR NOTIFYING ALL OTHER DIVISIONS.
4. A SPECIAL CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.
5. A CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.
6. A CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.
7. A CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.
8. A CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.
9. A CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.
10. A CONTRACTOR SHALL BE APPROVED BY THE CONTRACTOR FOR ALL WORK INVOLVED AND COORDINATED BY THE CONTRACTOR.

ARCHITECT
noho
WORKSHOP

NOHO WORKSHOP
KANYA CHUNG
ARCHITECT, AR-18731
1070 KOLO RD.
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E: kanya@chongarchitect.com

NATHANIEL FISHER
KALIMUALI HWY,
Kokaha, HI 96752

CERTIFICATION

CERTIFICATION

THIS VEHICLE HAS BEEN REPAIRED BY THE
FEDERAL BUREAU OF INVESTIGATION AND
IS THE PROPERTY OF THE BUREAU.
IT IS NOT TO BE LOANED, REPAIRED,
OR USED IN ANY MANNER WITHOUT THE
APPROVAL OF THE BUREAU.

PROJECT
NATE - HALE
WA'A (LOT
64)

(4) 1-2-013-039-0000
PROJECT NUMBER: 222
ISSUE DATE: 3/25/24
DRAWING ISSUE:

EXTERIOR ELEVATIONS
A2.2
PERMIT ID
A10

NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. ALL DIMENSIONS OF CONSTRUCTION BETWEEN THE WORKS SHALL BE TAKEN TO THE CENTERLINE OF THE WORKS UNLESS OTHERWISE SPECIFIED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ARCHITECT

noho

工作坊

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KANAKA CUNING

1970 KOKO RD.

WILSON, N.S.W. 2060

TEL: 02 9550 1234

WWW.NOHO.WORKSHOP

CLIENT

NATHANIEL FISHER

1970 KOKO RD.

WILSON, N.S.W. 2060

CERTIFICATION

PROJECT

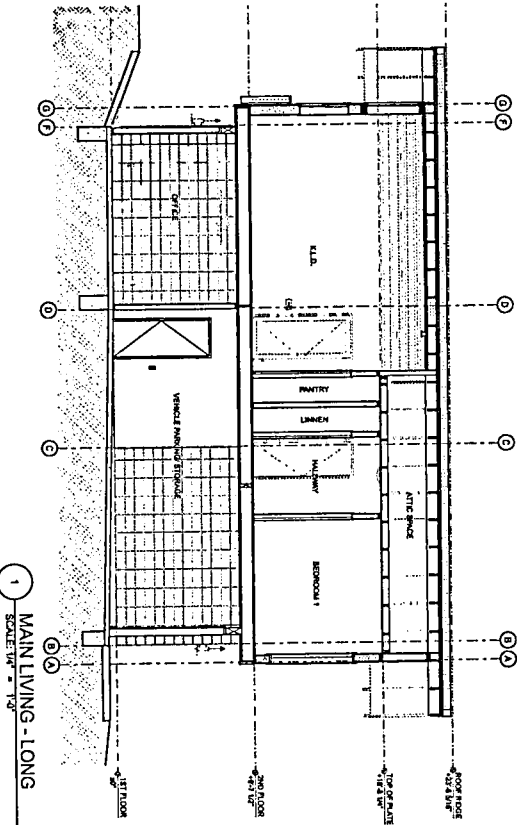
NATE - HALE

W.A. (LOT 64)

PROJECT NUMBER: 2018

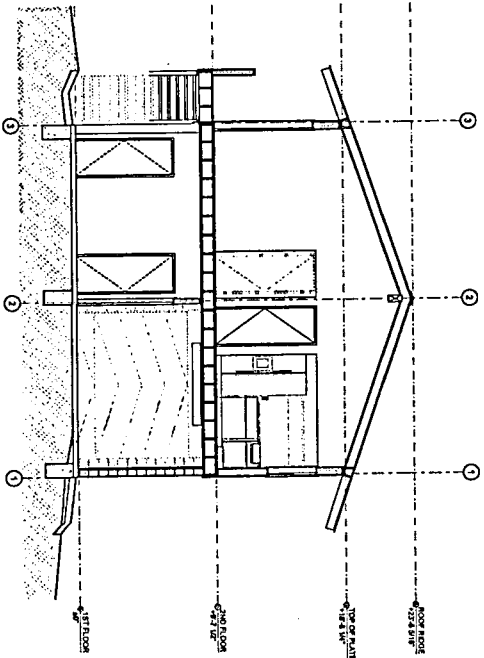
ISSUE DATE: 2024

DRAWING STYLE:



1 MAIN LIVING - LONG

SCALE: 1/8" = 1'-0"



2 MAIN LIVING - SHORT

SCALE: 1/8" = 1'-0"

BUILDING SECTIONS

A3.1

FEELING ID

A11

NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL DIMENSIONS IN DIMENSIONS BETWEEN THE WALLS SHALL BE MEASURED TO THE CENTERLINE OF THE WALLS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT.

ARCHITECT
noho
工作坊

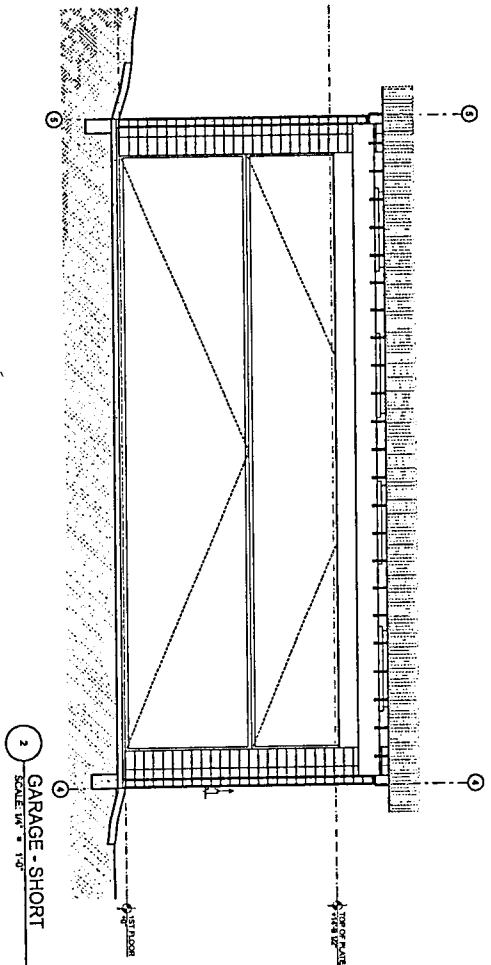
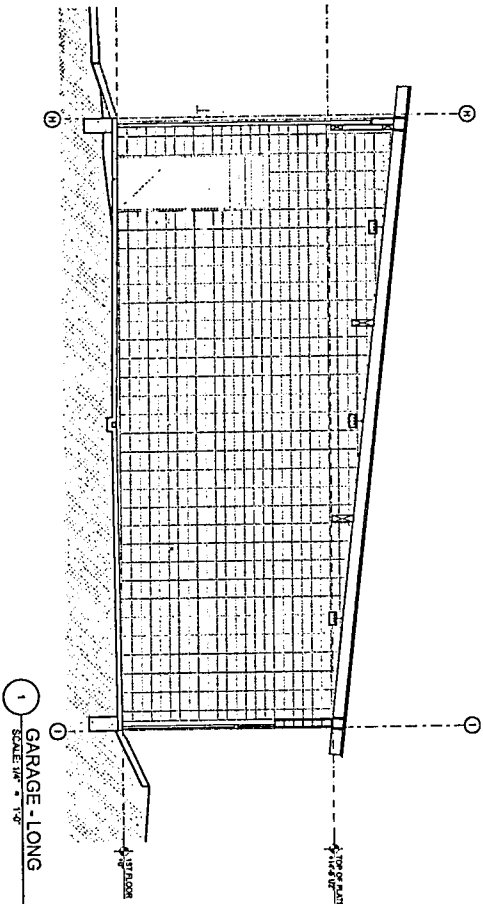
NOHO WORKSHOP
KIMCHI CHUNG
1970 KOKO RD.
KUALA LUMPUR 50100
TEL: 011-1111 1111
E: info@nohowspace.com

CLIENT
NATHANIEL FISHER
KIMCHI CHUNG
KUALA LUMPUR 50100
TEL: 011-1111 1111

CERTIFICATION

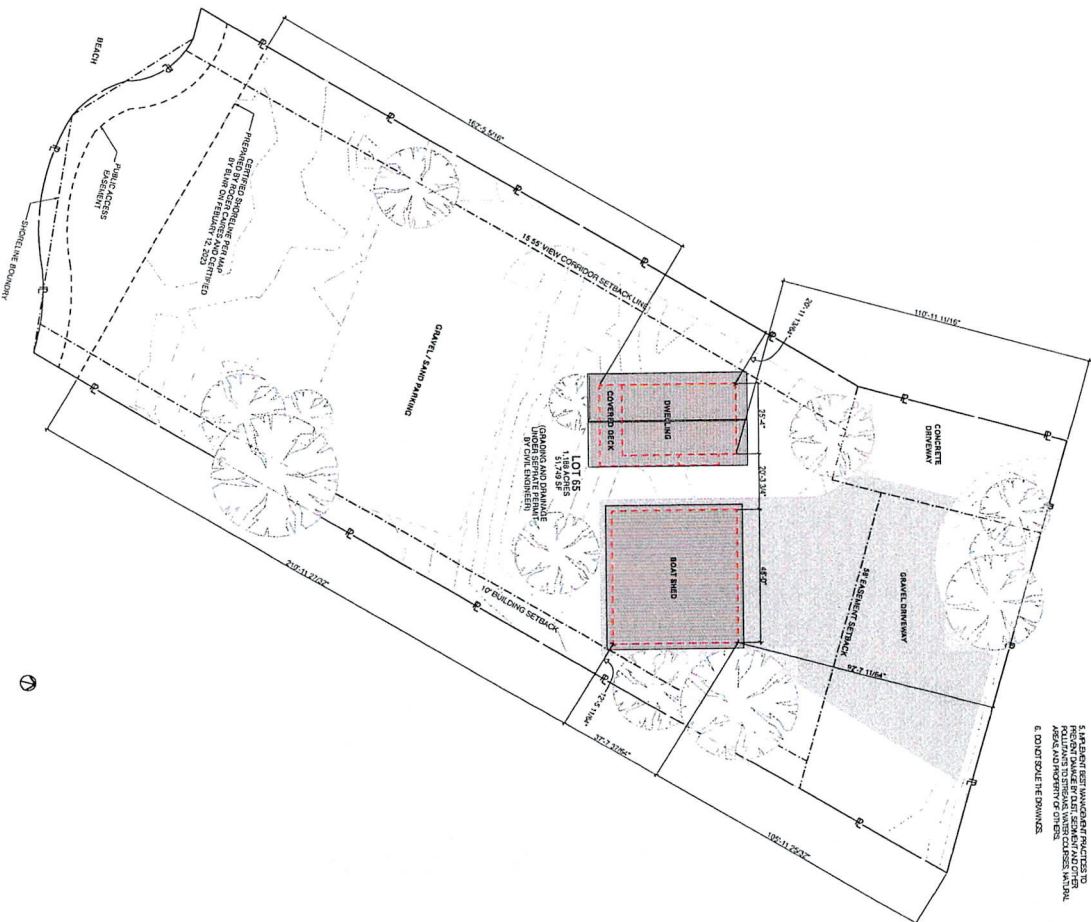
PROJECT
NATE - HALE
W.A.A. (LOT
64)
6/11/2013/008/0000
PROJECT NUMBER: 20118
ISSUE DATE: 2012/4
DRAWING ISSUE:

BUILDING SECTIONS
A3.2
PERMIT ID
A12



NATE - HALE WA'A (LOT 65)

GENERAL BUILDING INFORMATION	
PROPOSED NEW DWELLING ENCLOSED LOWER LEVEL OFFICE AREA	311.50 SQ. FT.
PROPOSED NEW DWELLING ENCLOSED LOWER LEVEL STORAGE/LOUNGE AREA	48.50 SQ. FT.
PROPOSED NEW DWELLING ENCLOSED LOWER LEVEL W.C.HALL	19.50 SQ. FT.
PROPOSED NEW DWELLING ENCLOSED LOWER LEVEL STAIRS	159.50 SQ. FT.
TOTAL LOWER LEVEL AREA OF PROPOSED NEW DWELLING	519.50
PROPOSED NEW DWELLING ENCLOSED UPPER LEVEL LIVING AREA	110.50 SQ. FT.
PROPOSED NEW DWELLING UPPER LEVEL CORRIDOR, LAMINATE AREA	306.50 SQ. FT.
TOTAL UPPER LEVEL AREA OF PROPOSED NEW DWELLING	1,327
TOTAL	
PROPOSED NEW DWELLING ENCLOSED AREAS	550.50 SQ. FT.
TOTAL PROPOSED NEW DWELLING ENCLOSED EXTERIOR AREAS:	645.50 SQ. FT.
PROPOSED NEW DETACHED BOAT SHED	2,117.50 SQ. FT.
LOI COMPARISON INFORMATION	
TOTAL ACQUISITION VALUE OF PROPOSED NEW DWELLING:	1,741.50 FTS
TOTAL ACQUISITION VALUE OF PROPOSED NEW DETACHED BOAT SHED	2,117.50 FTS
TOTAL ACQUISITION VALUE OF PROPOSED NEW DWELLING ENCLOSED AREAS	550.50 FTS
TOTAL ACQUISITION VALUE OF PROPOSED NEW DETACHED BOAT SHED	1,948.50 FTS
TOTAL ACQUISITION VALUE OF PROPOSED NEW DWELLING ENCLOSED EXTERIOR AREAS, ETC.	183.50 FTS
TOTAL PROPOSED FOR CONSIDERATION	5,583.50 FTS
PER ACRE	
TOTAL LOT COVERED BY A WHITE OPELOUSA + 10% ALLOWANCE	51.57 SQ. FT.
	9.9%



1. THE CONNECTION SHALL BE MADE BY ELECTRONS AND NOT BY MECHANICAL MEANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL OVERHEADS IN CONTACTS BETWEEN THE WORKS OF THE CONTRACTOR SHALL BE PROTECTED BY THE WORKS OF THE CONTRACTOR BY MEANS OF A PROTECTIVE COVERING OF THE OVERHEADS BEFORE PROCEEDING WITH ANY WORK THEREON.
3. DANGER OF FALL FROM HEIGHT OF STRUCTURE IN LESS OBVIOUS AREAS.
4. SAFETY CHAIRS SHALL BE USED APPROVED BY THE CONTRACTOR AND THE DESIGNER AND INSPECTED BY THE CHIEF ENGINEER.
5. A WEARANT BEING ISSUED TO ALL PERSONS TO ENTER THE SITE FOR THE WORK AND OTHER PERSONS WHO ARE NOT EMPLOYED BY THE CONTRACTOR SHALL BE ISSUED TO THEM BY THE CONTRACTOR.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CONTRACTOR.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CONTRACTOR.

TITLE SHEET & SITE PLAN

CS.01

PERMIT ID

CS01

- NOTES
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES AND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 2. ALL DIMENSIONS OF CONCRETE SHALL BE TAKEN FROM THE EXTERIOR FACE UNLESS OTHERWISE SPECIFIED.
 3. FINISH FLOOR SHALL BE 1/2" THICK POLISHED CONCRETE.
 4. ALL WALLS SHALL BE 12" THICK UNLESS OTHERWISE SPECIFIED.
 5. ALL ROOFS SHALL BE 6" THICK UNLESS OTHERWISE SPECIFIED.
 6. ALL DOORS SHALL BE 36" WIDE UNLESS OTHERWISE SPECIFIED.
 7. ALL WINDOWS SHALL BE 48" WIDE UNLESS OTHERWISE SPECIFIED.
 8. ALL STAIRS SHALL BE 36" WIDE UNLESS OTHERWISE SPECIFIED.
 9. ALL ELEVATIONS SHALL BE TAKEN FROM THE FINISH FLOOR UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS SHALL BE IN FEET AND INCHES UNLESS OTHERWISE SPECIFIED.

noho
工作坊

NOHO WORKSHOP
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1970 KOKO RD.
KILAUEA, HI 96754
E: info@nohoworkshop.com

CLIENT
NATHANIEL FISHER
KALAMAJU HWY.
KILAUEA, HI 96754

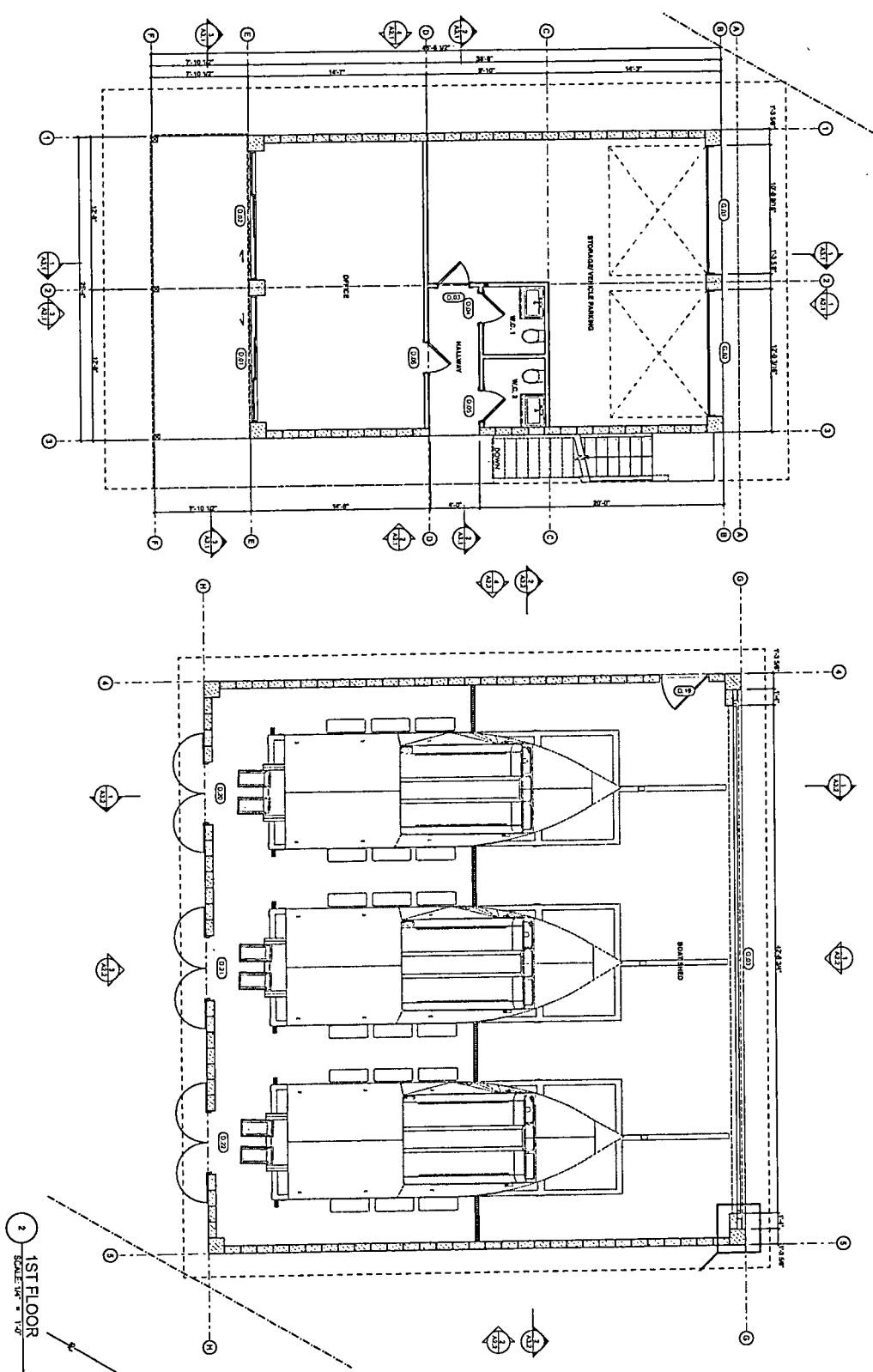
CERTIFICATION
PROJECT
NATE -
WORKER
HOUSING

ISSUE DATE: 3/1/24

DRAWING ISSUE:

1ST FLOOR PLAN
A1.2
REF: A05

2
1ST FLOOR
SCALE: 1/8" = 1'-0"



NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES SET FORTH TO COMPLY WITH THE CITY OF KANSAS CITY, MISSOURI, AND THE CITY OF KANSAS CITY, MISSOURI, AND THE CITY OF KANSAS CITY, MISSOURI.
2. ALL DIMENSIONS OF CONSTRUCTION SHALL BE BASED ON THE EXISTING CONDITIONS OF THE SITE, UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF KANSAS CITY, MISSOURI, AND THE CITY OF KANSAS CITY, MISSOURI.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF KANSAS CITY, MISSOURI, AND THE CITY OF KANSAS CITY, MISSOURI.
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noho
工作坊

NOHO WORKSHOP
KANSAS CITY, MISSOURI
1000 KANSAS ST., SUITE 100
KANSAS CITY, MO 64105
TEL: 816.441.1000
WWW.NOHOWORKSHOP.COM

CLIENT

NATHANIEL FISHER
KANSAS CITY, MISSOURI
TEL: 816.441.1000

CERTIFICATION

PROJECT
NATE -
WORKER
HOUSING

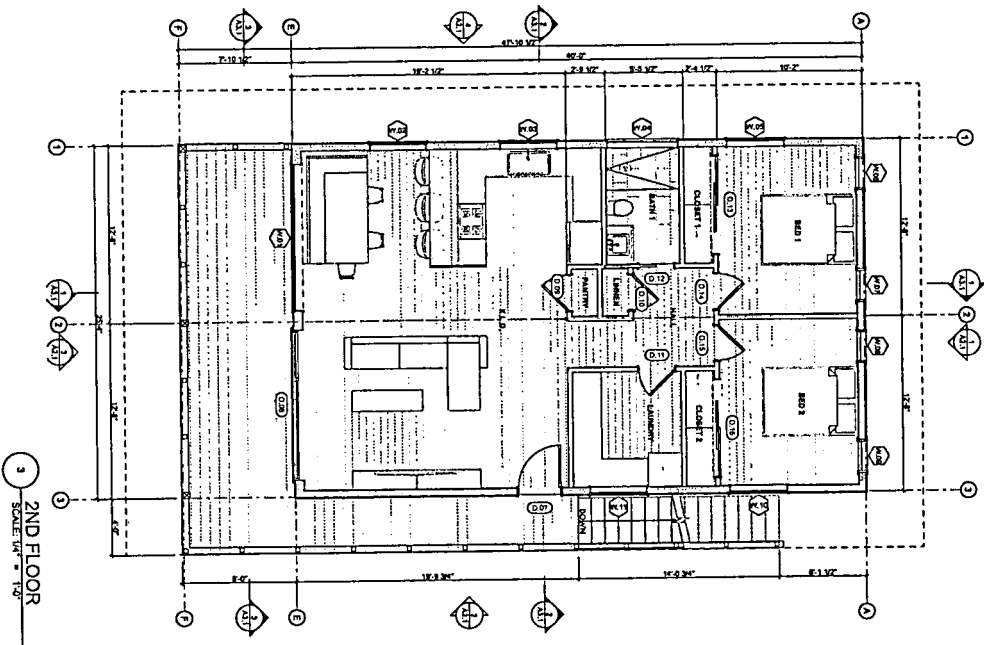
PROJECT NUMBER: 2018
ISSUE DATE: 3/15/24
DRAWING ISSUE:

2ND FLOOR PLAN

A1.3

PROJECT ID

A05



2ND FLOOR
SCALE: 1/8" = 1'-0"

NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES.
2. ALL DIMENSIONS OF WORK SHALL BE TAKEN FROM THE WORKING DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
6. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE COVERAGE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LABORER CERTIFICATION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EQUIPMENT CERTIFICATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIAL CERTIFICATION.

ARCHITECT

noho

工作坊

NOHO WORKSHOP

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BOULDER, CO 80502

TEL: 303.440.1000

WWW.NOHO-WORKSHOP.COM

CLIENT

MATTHEW FISHER

1000 10TH AVENUE, SUITE 100

BOULDER, CO 80502

TEL: 303.440.1000

WWW.NOHO-WORKSHOP.COM

CERTIFICATION

THE DESIGN AND CONSTRUCTION OF THIS PROJECT HAS BEEN CERTIFIED BY THE ARCHITECT AS BEING IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL LABOUR ORGANIZATION (ILO) CONVENTION ON THE ABOLITION OF SLAVERY, 1926, AND THE ILO CONVENTION ON THE ABOLITION OF SLAVERY, 1948.

PROJECT

NATE - WORKER HOUSING

Project Address: 1000 10TH AVENUE, SUITE 100, BOULDER, CO 80502

PROJECT NUMBER: 2018

ISSUE DATE: 3/15/24

DRAWING ISSUE:

ROOF PLAN

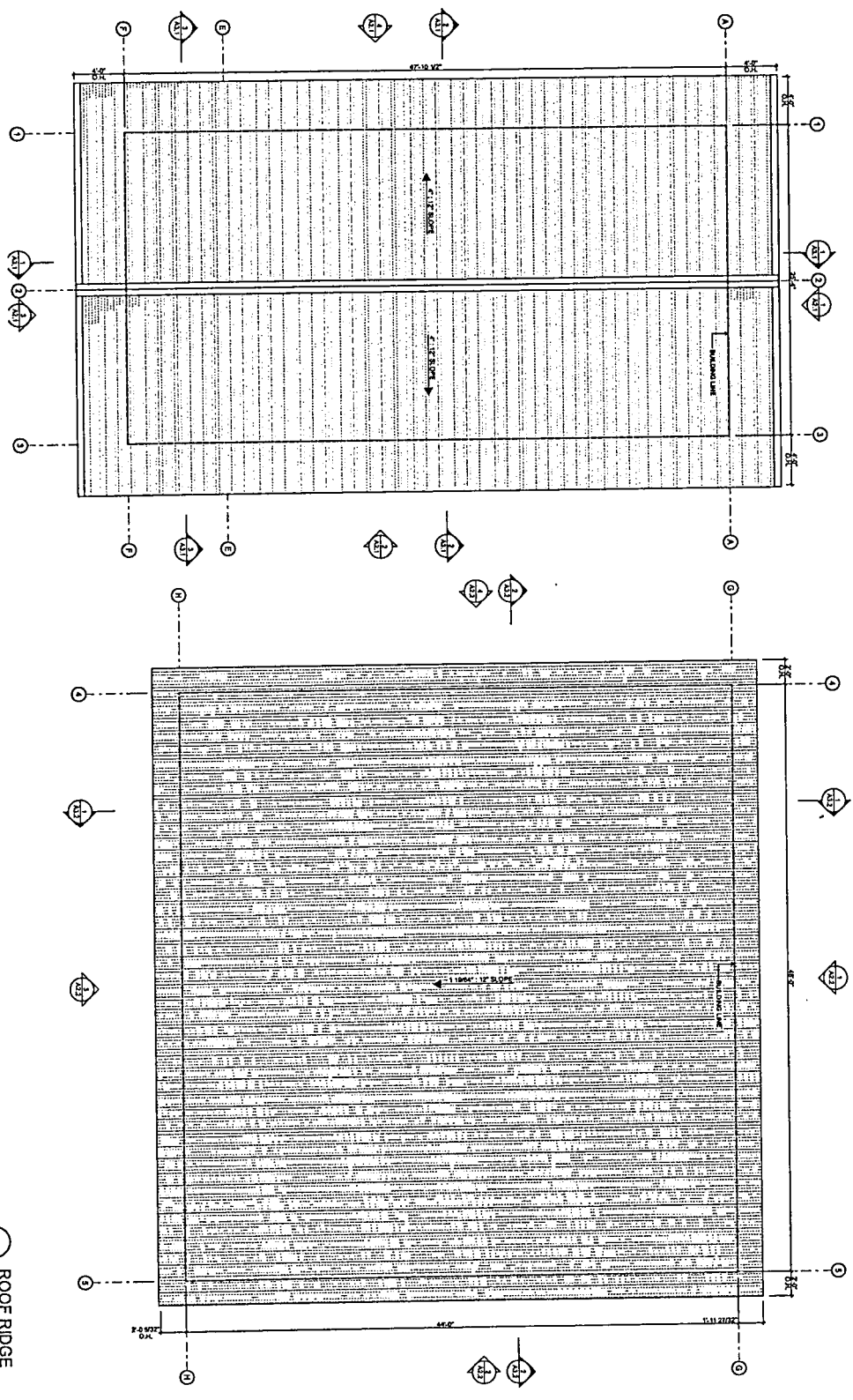
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FEELTID

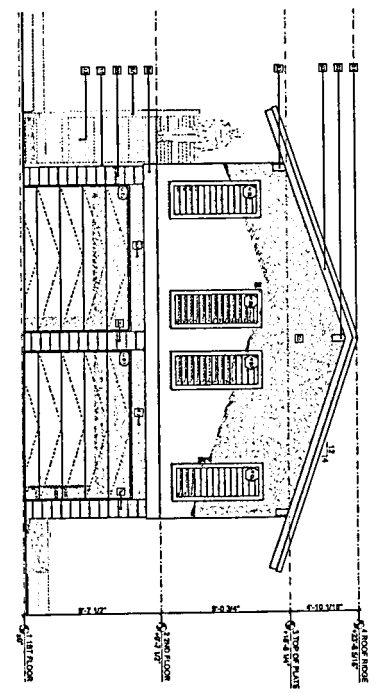
A06

1 ROOF RIDGE

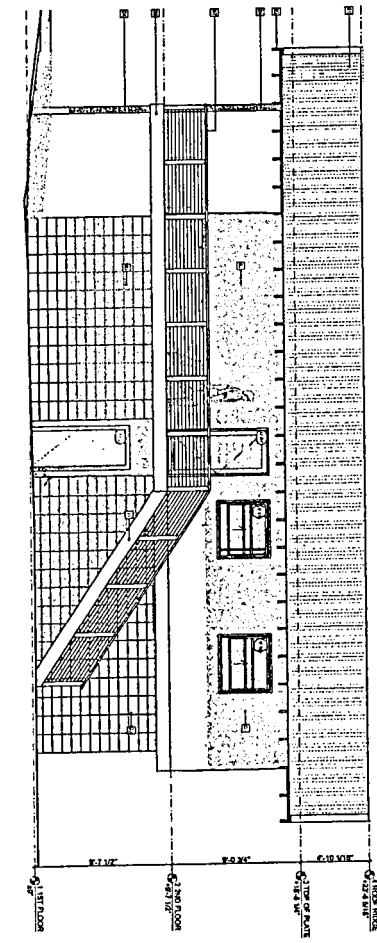
SCALE: 1/8" = 1'-0"



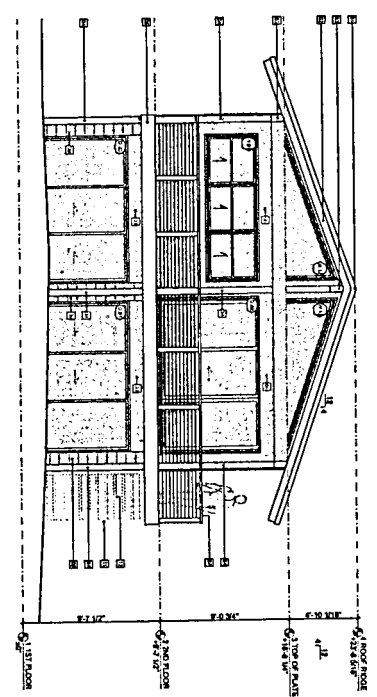
- ELEVATION AND SECTION KEYNOTS**
- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES.
 - 2. ALL DIMENSIONS ON ELEVATIONS BETWEEN THE WALLS OF THE BUILDING SHALL BE TO THE CENTERLINE OF THE WALLS.
 - 3. ALL DIMENSIONS ON SECTIONS SHALL BE TO THE CENTERLINE OF THE WALLS.
 - 4. ALL DIMENSIONS ON SECTIONS SHALL BE TO THE CENTERLINE OF THE WALLS.
 - 5. ALL DIMENSIONS ON SECTIONS SHALL BE TO THE CENTERLINE OF THE WALLS.
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 - 9. ALL DIMENSIONS ON SECTIONS SHALL BE TO THE CENTERLINE OF THE WALLS.
 - 10. ALL DIMENSIONS ON SECTIONS SHALL BE TO THE CENTERLINE OF THE WALLS.



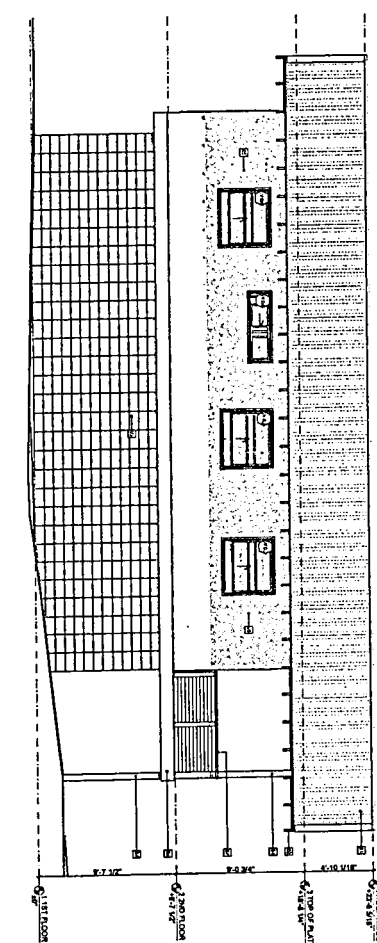
1 NORTH
SCALE 1/4" = 1'-0"



2 EAST
SCALE 1/4" = 1'-0"



3 SOUTH
SCALE 1/4" = 1'-0"



4 WEST
SCALE 1/4" = 1'-0"

ARCHITECT
nobo
工作坊

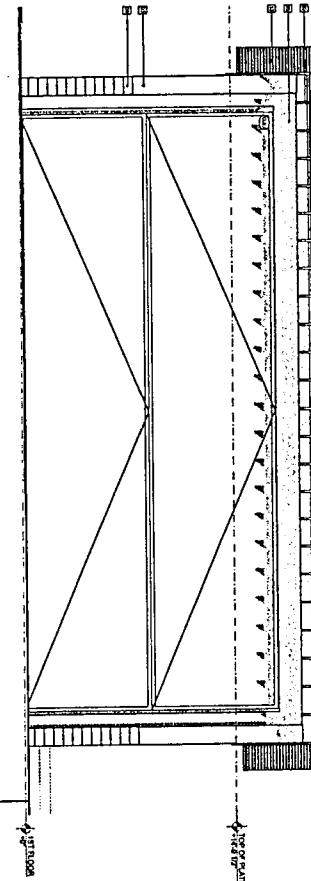
NOHO WORKSHOP
ARCHITECT
1810 KOLLO RD.
KUALA LUMPUR 50054
MALAYSIA
E: info@noboarchitect.com
T: +603 2222 2222

PROJECT
**NATE -
WORKER
HOUSING**

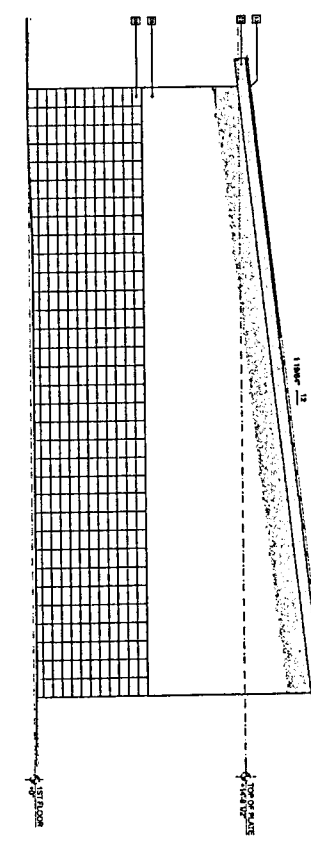
PROJECT NUMBER: 22018
ISSUE DATE: 3/15/24
DRAWING ISSUE:

EXTENSION ELEVATIONS
A2.1
FINAL I.D.
A08

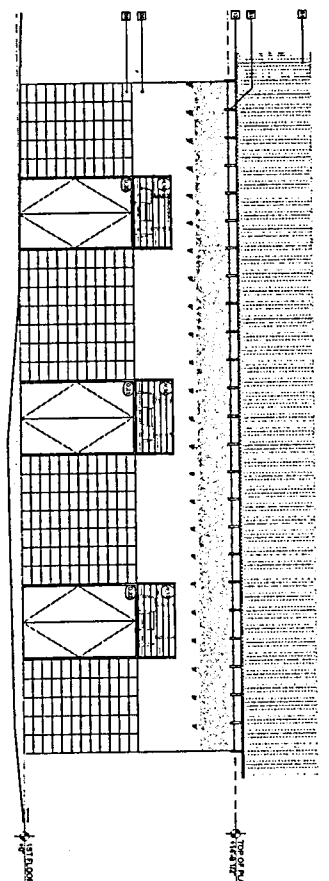
- ELEVATION AND SECTION KEYNOTES**
- 1. 1/2" CONCRETES SHALL VERIFY ALL DIMENSIONS AND COORDINATION
 - 2. EXPOSED BRICKS (PAINTED BLACK)
 - 3. STRUCTURAL WOOD COLUMN (PAINTED BLACK)
 - 4. STUCCO EXTERIOR FINISH (BLACK)
 - 5. BRICK BALCONY
 - 6. EXPOSED BRICKS - NATURAL FIN.
 - 7. EXPOSED BRICKS - NATURAL FIN.
 - 8. STUCCO EXTERIOR FINISH (BLACK)
 - 9. STUCCO EXTERIOR FINISH (BLACK)
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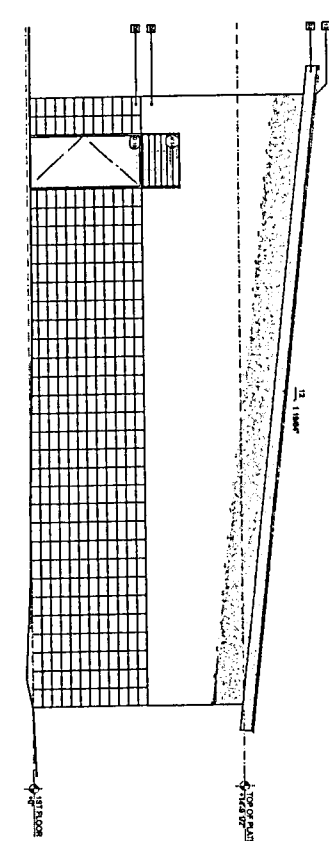
1 NORTH
SCALE: 1/4" = 1'-0"



2 EAST
SCALE: 1/4" = 1'-0"



3 SOUTH
SCALE: 1/4" = 1'-0"



4 WEST
SCALE: 1/4" = 1'-0"

ARCHITECT
noho
工作坊

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1870 KOLE RD.
KALAMAZOO, MI 49004
E: info@nohowspace.com
P: 269.469.1111

CLIENT
MATTHEW FISHER
Kalamazoo, MI 49004

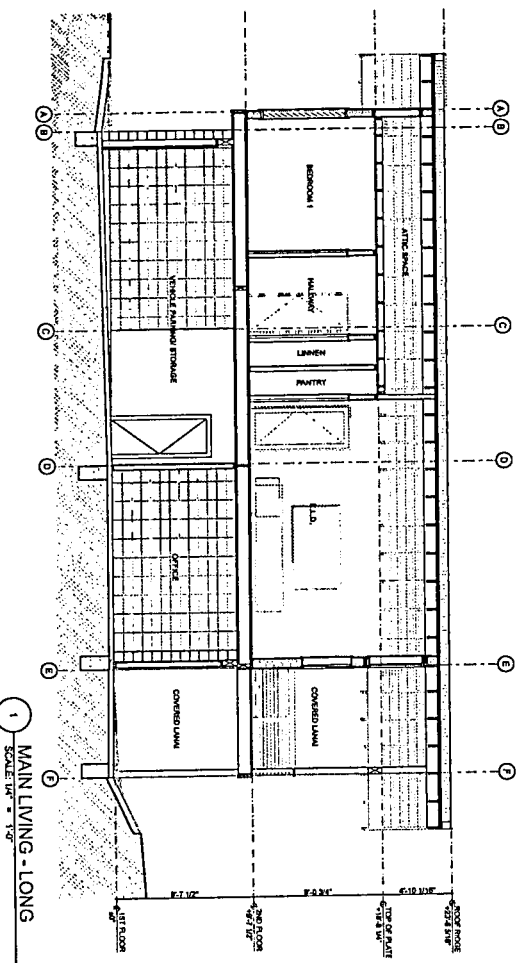
CERTIFICATION
This document is prepared by me or under my direct supervision and I am a duly licensed architect in the State of Michigan.

PROJECT
NATE -
WORKER
HOUSING
PROJECT NUMBER: 22018
ISSUE DATE: 3/15/24
DRAWING ISSUE:

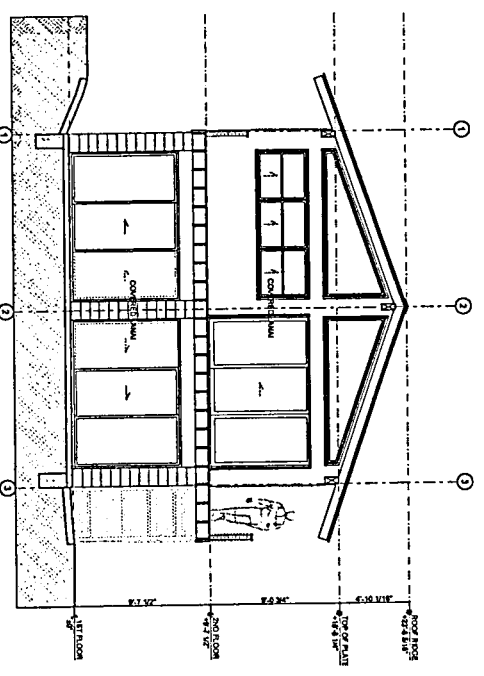
PERMIT ID
A2.2
A09

NOTES

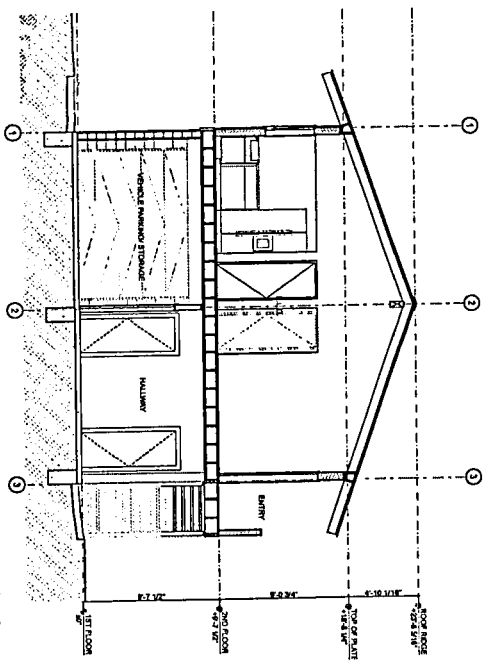
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL DIMENSIONS ARE GIVEN UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE GIVEN UNLESS OTHERWISE SPECIFIED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
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8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.



1 MAIN LIVING - LONG
SCALE 1/8" = 1'-0"



3 MAIN LIVING - SHORT
SCALE 1/8" = 1'-0"



2 MAIN LIVING - SHORT
SCALE 1/8" = 1'-0"

NOHO WORKSHOP
ARCHITECTS
1970 KOLD RD.
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E: info@nohows.com
P: 609.666.1111

CLIENT
NATHANIEL FISHER
KILBURN, NJ 08072

CERTIFICATION

PROJECT
NATE -
WORKER
HOUSING

PROJECT NUMBER: 2018
ISSUE DATE: 3/15/24
DRAWING ISSUE:

BUILDING SECTIONS
A3.1
A10

NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION.
2. ALL WORKS ON CONTRACTS BETWEEN THE WORKS OF THE ARCHITECT SHALL BE IN ACCORDANCE WITH THE DESIGN OF THE ARCHITECT BEFORE PROCEEDING WITH ANY OTHER WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES TO REMAIN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES TO REMAIN.
6. DO NOT SCALE THE DRAWING.

noho
工作坊

NODHO WORKSHOP
1970 GOLD RD.
KUALA LUMPUR 680134
E: info@nodhows.com

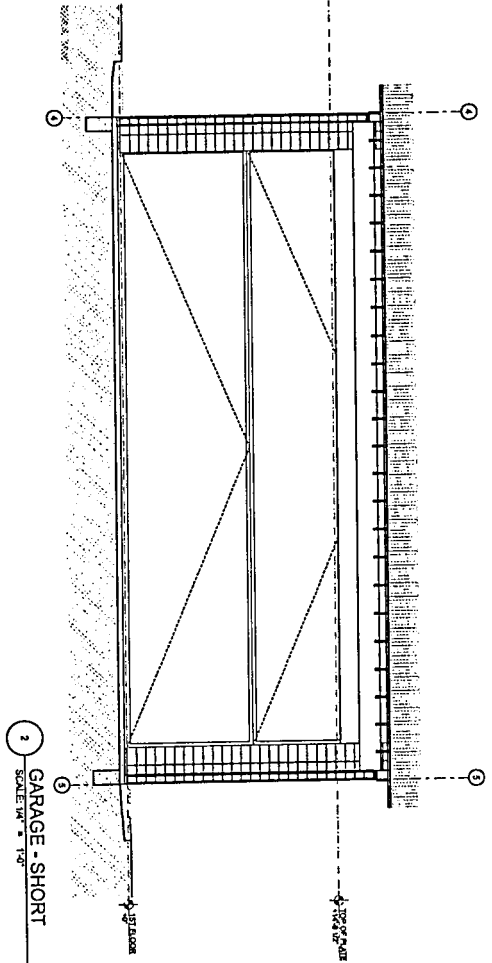
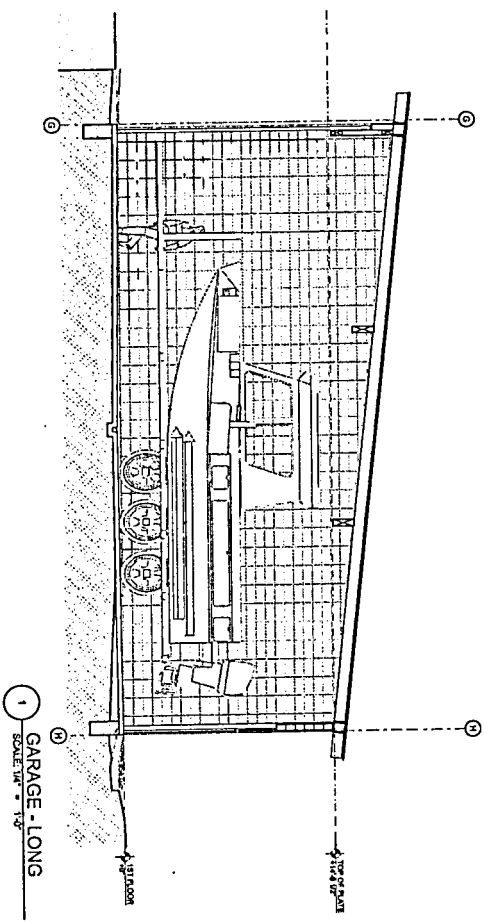
CLIENT
NATHANIEL FISHER
KUALA LUMPUR 680132

CERTIFICATION

PROJECT
NATE -
WORKER
HOUSING

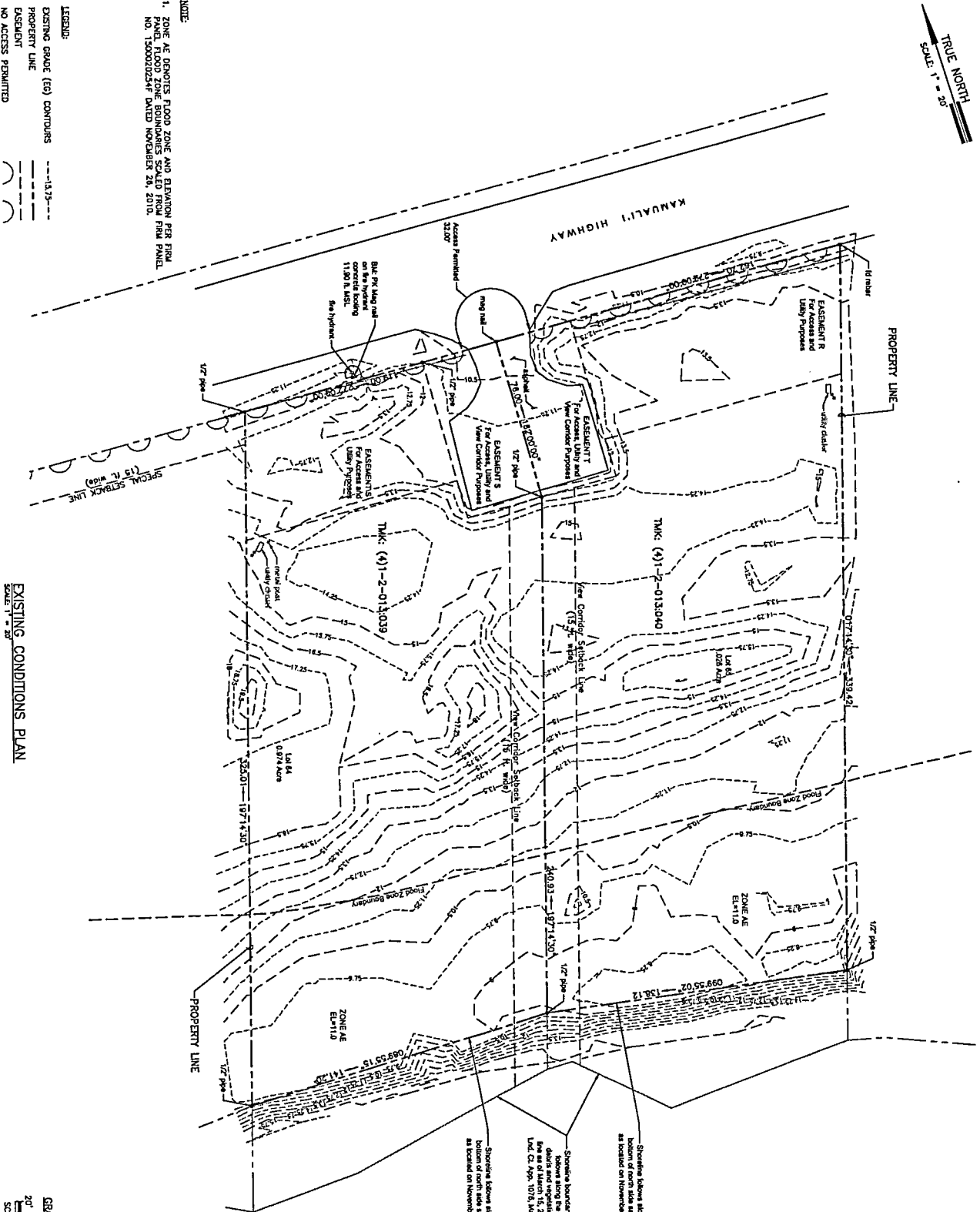
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ISSUE DATE: 31/02/24
DRAWING ISSUE:

PERMIT ID
A10



BUILDING SECTIONS
A3.2
PERMIT ID
A10

TRUE NORTH
SCALE: 1" = 20'



GRAPHIC SCALE:
20' 10' 0' 20' 40'
SCALE: 1" = 20'

KWVA! CIVIL CIVIL ENGINEERING LANDSCAPE ARCHITECTURE PO BOX 127 KAWALI, HI 96734 TEL: (808) 354-8880 Email: kwva@kwva.com		PROJECT NO. KAWALI WMA GRADING DESIGN TMK: (1) 2-013-040		CLIENT: NATHANIEL FISHER 8224 KILDEAN ROAD KAWALI, HI 96734 Email: nfisher@nfisher.com		DESIGNER: DENNIS R. SWANSON 1000 KILDEAN ROAD KAWALI, HI 96734 TEL: (808) 354-8880 Email: dswanson@kwva.com		REVISIONS: <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>02/27/2024</td> <td>AS SHOWN</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	1	02/27/2024	AS SHOWN	EXISTING CONDITIONS PLAN C-4	
NO.	DATE	DESCRIPTION															
1	02/27/2024	AS SHOWN															

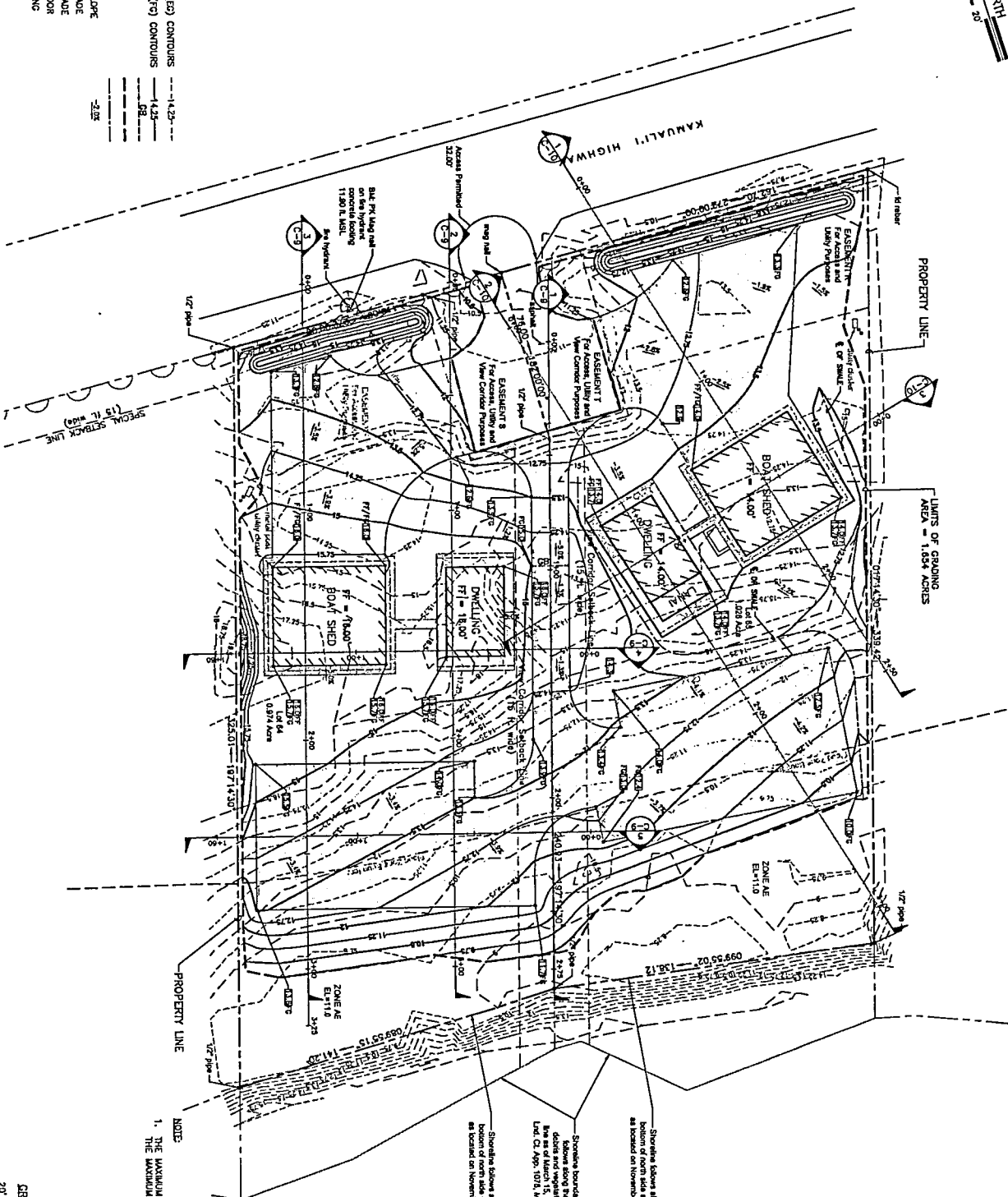
LEGEND:
PROPERTY LINE
CURVE RADIUS



DRAWING NO. 20210026	DATE 02/27/2024	SHEET NO. 18	PROJECT AS SHOWN	TITLE SITE PLAN	SCALE 1" = 10'
PROJECT LOCATION 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT DESCRIPTION 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT OWNER 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT ARCHITECT 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT ENGINEER 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT SURVEYOR 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT LANDSCAPE ARCHITECT 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					
PROJECT CIVIL 10000 N. 100th Ave., Suite 100, Jacksonville, FL 32256					

TRUE NORTH
SCALE 1" = 20'

- LEGEND:
- EXISTING GROUND (E2) CONTOURS ---14.25---
 - FINISHED GROUND (F2) CONTOURS ---14.25---
 - GRADE BREAK ---14.25---
 - LIMITS OF GRADING ---14.25---
 - SWALE CENTERLINE ---14.25---
 - FINISHED GRADE SLOPE ---14.25---
 - E2 = EXISTING GRADE
 - F2 = FINISHED GRADE
 - FF = FINISHED FLOOR
 - ± = MATCH EXISTING



GRADING PLAN
SCALE 1" = 20'

GRAPHIC SCALE:
20' 10' 0' 20' 40'

NOTE:
1. THE MAXIMUM CUT SLOPE IS 3:1 H:1 V AND THE MAXIMUM FILL SLOPE IS 2:1 H:1 V.

Shoreline boundary shown along the bottom of each side and berm as located on November 23, 2022.

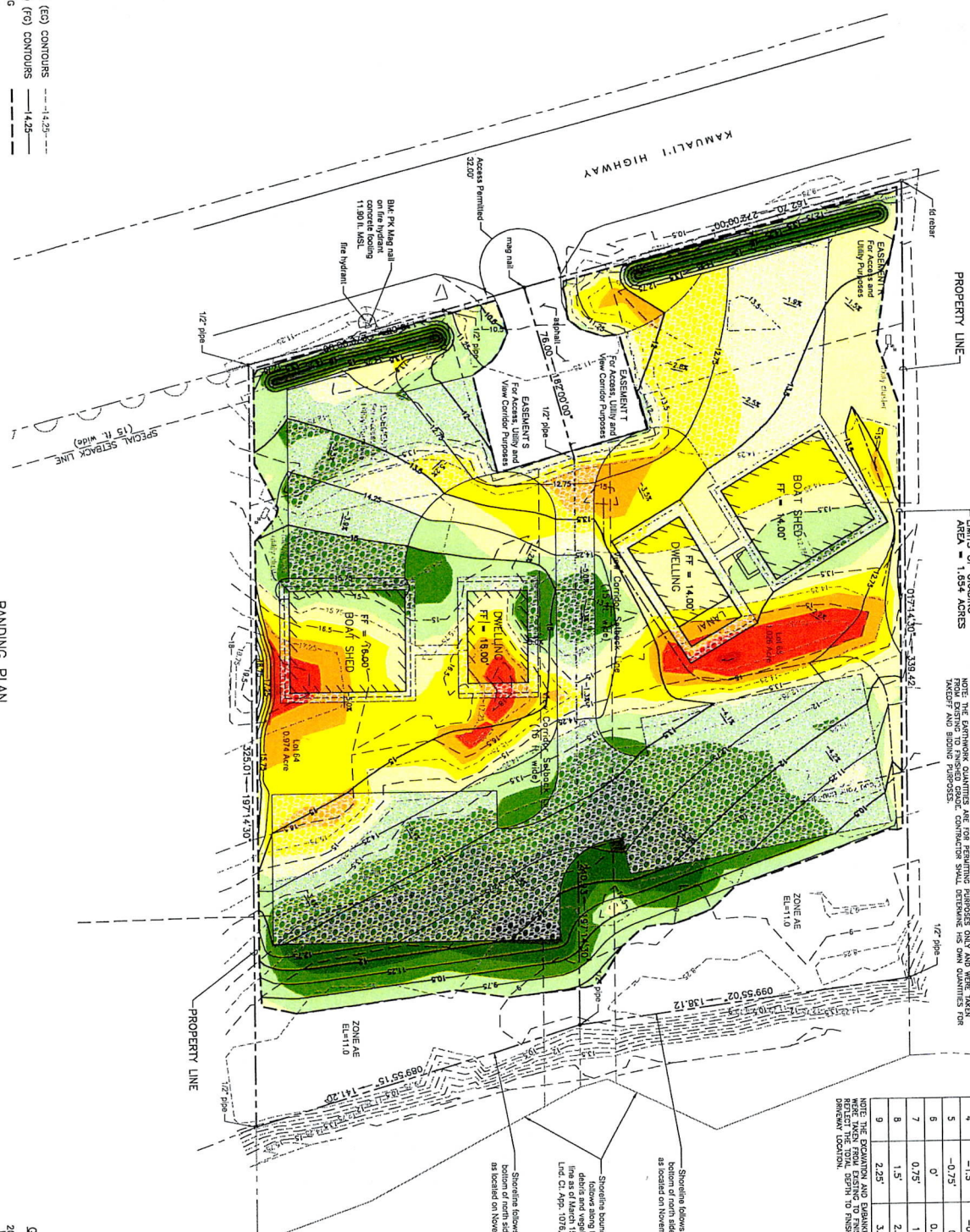
Shoreline boundary shown along the bottom of each side and berm as located on November 23, 2022.

<p>KWAI CIVIL</p> <p>Civil Engineering UNLICENSED ARCHITECTURE</p> <p>PO BOX 127 Kalaheka, HI 96754 Tel: (808) 355-6880 Email: kwai@kwaihi.com</p>		<p>HALE NAA GRADING DESIGN THAI (P) 15071558 & 610</p>	<p>NATHANIEL FISHER 8234 ELEANOR ROAD KELAHEKA, HI 96754 Email: nathaniel@kwaihi.com</p>	<p>DEAN R. SWANSON KALAHEKA, HI 96754 Tel: (808) 355-6880 Email: dean@kwaihi.com</p>	<p>REVISIONS:</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>02/27/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>2</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>3</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>4</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>5</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>6</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>7</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>8</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>9</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> <tr> <td>10</td> <td>03/07/2024</td> <td>AS SHOWN</td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	1	02/27/2024	AS SHOWN	2	03/07/2024	AS SHOWN	3	03/07/2024	AS SHOWN	4	03/07/2024	AS SHOWN	5	03/07/2024	AS SHOWN	6	03/07/2024	AS SHOWN	7	03/07/2024	AS SHOWN	8	03/07/2024	AS SHOWN	9	03/07/2024	AS SHOWN	10	03/07/2024	AS SHOWN	<p>2024.000</p> <p>02/27/2024</p> <p>AS SHOWN</p> <p>7</p> <p>10</p> <p>C-7</p>
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10	03/07/2024	AS SHOWN																																					

TRUE NORTH
SCALE: 1" = 20'

LEGEND:
EXISTING GROUND (EG) CONTOURS ---14.25'---
FINISHED GROUND (FG) CONTOURS ---14.25'---
LIMITS OF GRADING ---14.25'---
SWALE CENTERLINE ---14.25'---
FINISHED GRADE SLOPE ---2.0%---

BANDING PLAN
SCALE: 1" = 20'



VOLUME SUMMARY

NAME	CUT (CY)	FILL (CY)	NET (CY)
TOTAL	1,243	1,194	49 CUT
BUILDING FOOTPRINT	181	22	159 CUT
REMAINING SITE	1,062	1,172	110 CUT

NOTE: THE EARTHWORK QUANTITIES ARE FOR PRELIMINARY PURPOSES ONLY AND WERE TAKEN FROM EXISTING TO FINISHED GRADE. CONTRACTOR SHALL DETERMINE HIS OWN QUANTITIES FOR MATERIAL AND BORROW PASSES.

Elevations Table

Number	Min. Elevation	Max. Elevation	Area (Sq')	Color
1	-3.75'	-3.00'	X	Red
2	-3.00'	-2.25'	X	Orange
3	-2.25'	-1.50'	X	Yellow
4	-1.50'	-0.75'	X	Light Green
5	-0.75'	0'	X	Green
6	0'	0.75'	X	Dark Green
7	0.75'	1.50'	X	Very Dark Green
8	1.50'	2.25'	X	Dark Green
9	2.25'	3.00'	X	Very Dark Green

NOTE: THE EARTHWORK QUANTITIES WERE TAKEN FROM EXISTING TO FINISHED GRADE. CONTRACTOR SHALL DETERMINE HIS OWN QUANTITIES FOR MATERIAL AND BORROW PASSES.

Shoreline follows along the bottom of north side and berm as located on November 23, 2002

Shoreline follows along the bottom of north side and berm as located on November 9, 2002

Shoreline follows along the bottom of north side and berm as located on November 15, 2005

Shoreline follows along the bottom of north side and berm as located on November 15, 2005

Shoreline follows along the bottom of north side and berm as located on November 15, 2005

GRAPHIC SCALE:
20' 10' 0 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	DATE	DESCRIPTION
1	02/27/2024	AS SHOWN
2	03/01/2024	AS SHOWN

PROJECT INFORMATION:

HALE WAKA
GRADING
1000 W. KAMUALILI HIGHWAY
TAKA, HI 96761-1510 & 1510

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PROJECT INFORMATION:

HALE WAKA
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1000 W. KAMUALILI HIGHWAY
TAKA, HI 96761-1510 & 1510

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Tel: (808) 755-9850
Email: debra@nathaniel.com



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSISSIPPI.

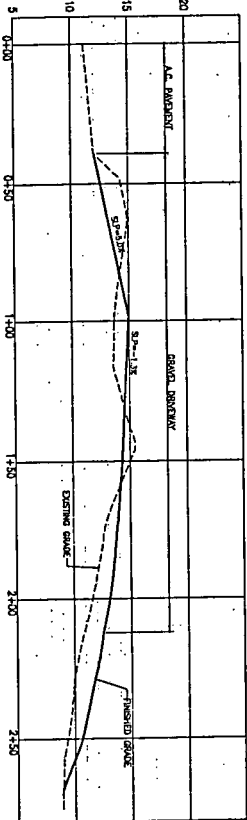
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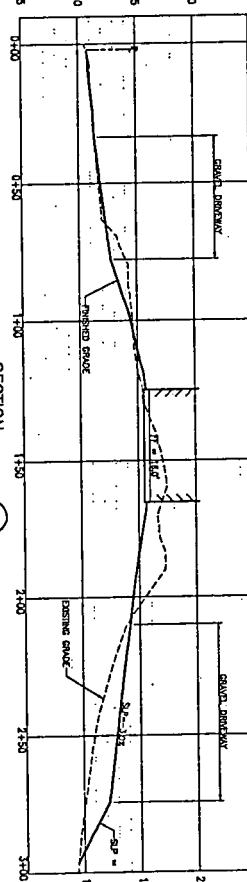
SITE SECTIONS

NO.	DATE	DESCRIPTION
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3		
4		
5		

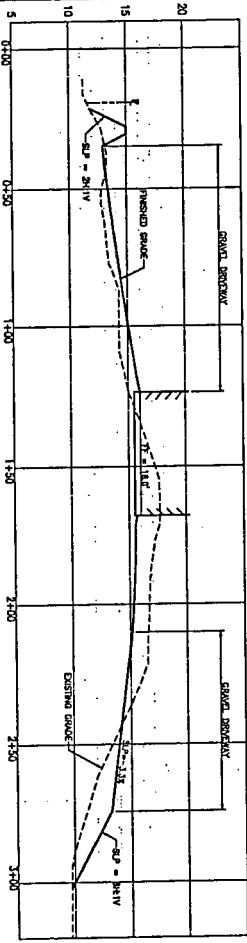
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5' 2.5' 0 5' 10'
SCALE: 1" = 5'
20' 10' 0 20' 40'
SCALE: 1" = 20'



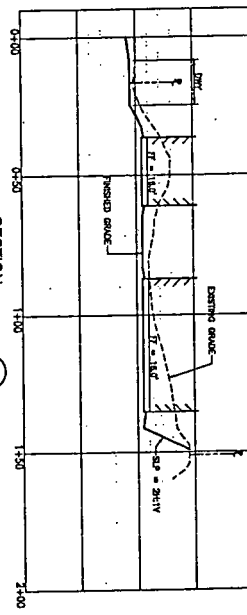
SECTION 1
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'
C-3



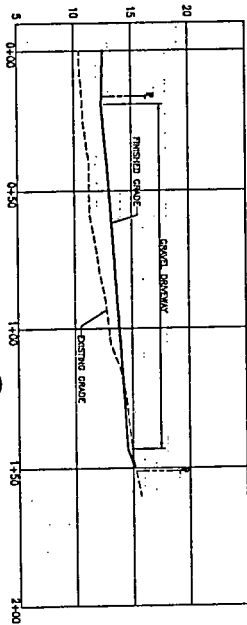
SECTION 2
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'
C-3



SECTION 3
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'
C-3

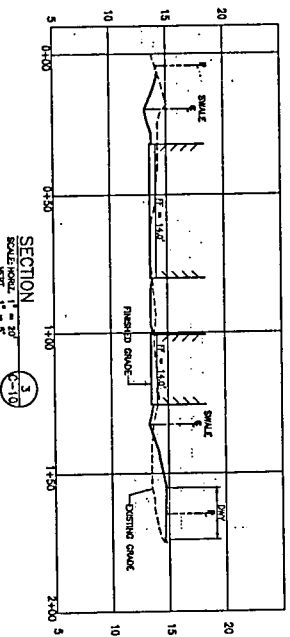
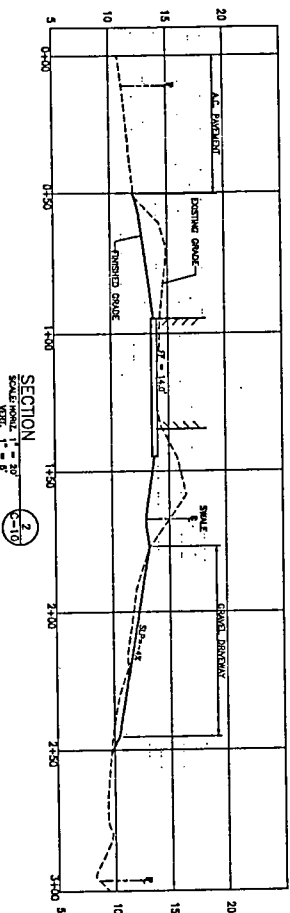
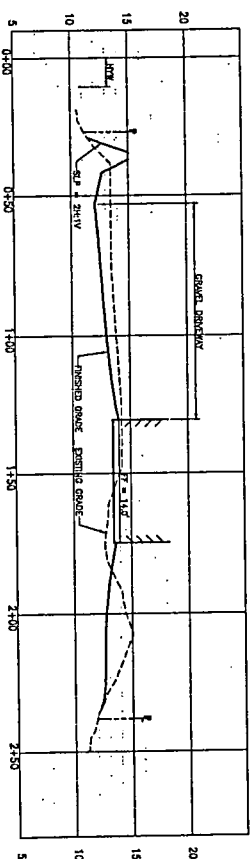


SECTION 4
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'
C-3



SECTION 5
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'
C-3

NOTE:
1. ALL PROPOSED BUILDINGS AND RETAINING WALLS ARE SHOWN FOR REFERENCE ONLY. FOR CONSTRUCTION PLANS AND DETAILS REFER TO ARCHITECTURAL AND STRUCTURAL PLANS.



NOTE:
1. ALL PROPOSED BUILDINGS AND RETAINING WALLS ARE SHOWN FOR REFERENCE ONLY. FOR CONSTRUCTION PLANS AND DETAILS REFER TO ARCHITECTURAL AND STRUCTURAL PLANS.

DEPARTMENT OF PLANNING

KA'ĀINA HULL, DIRECTOR

JODI A. HIGUCHI SAYEGUSA, DEPUTY DIRECTOR



DEREK S.K. KAWAKAMI, MAYOR
REIKO MATSUYAMA, MANAGING DIRECTOR

TRANSMITTAL OF AGENCY COMMENTS TO PLANNING COMMISSION

April 3, 2024

PERMIT NUMBER: Special Management Area Use Permit SMA(U)-2024-8
Class IV Zoning Permit Z-IV-2024-3
Use Permit U-2024-3
Shoreline Setback Variance Permit SSV-2024-1

APPLICANT: Nathaniel Fisher

1. Attached for Planning Commission's reference are agency comments.

F.2.a.2.
APR 09 2024



County of Kauai
Planning Department
4444 Rice St., Suite A473 Lihue, HI 96766
(808) 241-4050

MAR 8 '24 AM 8:17
PLANNING DEPT

FROM: Kaaina S. Hull, Director

Planner: Romio Idica

2/28/2024

SUBJECT: Zoning Class IV Z-IV-2024-3
Use Permit U-2024-3
Special Mgt Area Permit SMA(U)-2024-8
Shoreline Setback Var SSV-2024-1
Tax Map Key: 120130390000
Applicant: Nathaniel Fisher
Commercial Boat Facility

RECEIVED

FEB 28 2024

County of Kauai
Transportation Agency

TO:

- | | |
|-----------------------------------------------------------------------------|------------------------------------------------------------------|
| <input type="checkbox"/> State Department of Transportation - STP | <input checked="" type="checkbox"/> County DPW - Engineering |
| <input checked="" type="checkbox"/> State DOT - Highways, Kauai (info only) | <input type="checkbox"/> County DPW - Wastewater |
| <input type="checkbox"/> State DOT - Airports, Kauai (info only) | <input type="checkbox"/> County DPW - Building |
| <input type="checkbox"/> State DOT - Harbors, Kauai (info only) | <input type="checkbox"/> County DPW - Solid Waste |
| <input checked="" type="checkbox"/> State Department of Health | <input type="checkbox"/> County Department of Parks & Recreation |
| <input type="checkbox"/> State Department of Agriculture | <input checked="" type="checkbox"/> County Fire Department |
| <input type="checkbox"/> State Office of Planning | <input type="checkbox"/> County Housing Agency |
| <input type="checkbox"/> State Dept. of Bus. & Econ. Dev. Tourism | <input type="checkbox"/> County Economic Development |
| <input type="checkbox"/> State Land Use Commission | <input checked="" type="checkbox"/> County Water Department |
| <input checked="" type="checkbox"/> State Historic Preservation Division | <input type="checkbox"/> County Civil Defense |
| <input type="checkbox"/> State DLNR - Land Management | <input checked="" type="checkbox"/> County Transportation Agency |
| <input type="checkbox"/> State DLNR - Forestry & Wildlife | <input type="checkbox"/> KHPRC |
| <input type="checkbox"/> State DLNR - Aquatic Resources | <input type="checkbox"/> U.S. Postal Department |
| <input type="checkbox"/> State DLNR - Conservation & Coastal Lands | <input type="checkbox"/> UH Sea Grant |
| <input checked="" type="checkbox"/> Office of Hawaiian Affairs | <input type="checkbox"/> Other: |

FOR YOUR COMMENTS (pertaining to your department) (Due Date: 04/09/2024)

3/5/2024

CTA HAS NO FURTHER COMMENT REGARDING THIS PROJECT.

MAHALO!

This matter is scheduled for a public hearing before the County of Kauai Planning Commission on 4/9/2024 at the Lihue Civic Center, Moikeha Building, Meeting Room 2A-2B, 4444 Rice Street, Lihue, Kauai, at 9:00 am or soon thereafter. If we do not receive your agency comments within one (1) month from the date of this request, we will assume that there are no objections to this permit request. Mahalo!



County of Kaua'i
Planning Department
4444 Rice St., Suite A473 Lihue, HI 96766
(808) 241-4050

FROM: Kaaina S. Hull, Director

Planner: Romio Idica

2/28/2024

SUBJECT: Zoning Class IV Z-IV-2024-3
Use Permit U-2024-3
Special Mgt Area Permit SMA(U)-2024-8
Shoreline Setback Var SSV-2024-1
Tax Map Key: 120130390000
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TO:

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| <input checked="" type="checkbox"/> Office of Hawaiian Affairs | <input type="checkbox"/> Other: |

FOR YOUR COMMENTS (pertaining to your department) (Due Date: 04/09/2024)

*Project should have necessary
water supply per NPPA standards*

This matter is scheduled for a public hearing before the County of Kauai Planning Commission on 4/9/2024 at the Lihue Civic Center, Moikeha Building, Meeting Room 2A-2B, 4444 Rice Street, Lihue, Kauai, at 9:00 am or soon thereafter. If we do not receive your agency comments within one (1) month from the date of this request, we will assume that there are no objections to this permit request. Mahalo!



County of Kaua'i
Planning Department
4444 Rice St., Suite A473 Lihue, HI 96766
(808) 241-4050

MAR 21 '24 PM 12:29
PLANNING DEPT

FROM: Kaaina S. Hull, Director

Planner: Romio Idica

2/28/2024

SUBJECT: Zoning Class IV Z-IV-2024-3
Use Permit U-2024-3
Special Mgt Area Permit SMA(U)-2024-8
Shoreline Setback Var SSV-2024-1
Tax Map Key: 120130390000 & 12130400000
Applicant: Nathaniel Fisher
Commercial Boat Facility

TO:

- | | |
|-----------------------------------------------------------------------------|------------------------------------------------------------------|
| <input type="checkbox"/> State Department of Transportation - STP | <input checked="" type="checkbox"/> County DPW - Engineering |
| <input checked="" type="checkbox"/> State DOT - Highways, Kauai (info only) | <input type="checkbox"/> County DPW - Wastewater |
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FOR YOUR COMMENTS (pertaining to your department) (Due Date: 04/09/2024)

This matter is scheduled for a public hearing before the County of Kauai Planning Commission on 4/9/2024 at the Lihue Civic Center, Moikeha Building, Meeting Room 2A-2B, 4444 Rice Street, Lihue, Kauai, at 9:00 am or soon thereafter. If we do not receive your agency comments within one (1) month from the date of this request, we will assume that there are no objections to this permit request. Mahalo!



STATE OF HAWAII
DEPARTMENT OF HEALTH
3040 Umi St. Lihue
Hawaii 96766

DATE: March 19, 2024

TO: To whom it may concern

FROM: Ellis Jones
District Environmental Health Program Chief

SUBJECT: RESPONSE_Commercial Boat Facility_SMA(U)-2024-08

In most cases, the District Health Office will no longer provide individual comments to agencies or project owners to expedite the land use review and process.

Agencies, project owners, and their agents should apply Department of Health "Standard Comments" regarding land use to their standard project comments in their submittal. Standard comments can be found on the Land Use Planning Review section of the Department of Health website: <https://health.hawaii.gov/epo/landuse/>. Contact information for each Branch/Office is available on that website.

Note: Agencies and project owners are responsible for adhering to all applicable standard comments and obtaining proper and necessary permits before the commencement of any work.

General summary comments have been included for your convenience. However, these comments are not all-inclusive and do not substitute for review of and compliance with all applicable standard comments for the various DOH individual programs.

Clean Air Branch

1. All project activities shall comply with the Hawaii Administrative Rules (HAR), Chapters 11-59 and 11-60.1.
2. Control of Fugitive Dust: You must reasonably control the generation of all airborne, visible fugitive dust and comply with the fugitive dust provisions of HAR §11-60.1-33. Note that activities that occur near existing residences, businesses, public areas, and major thoroughfares exacerbate potential dust concerns. It is recommended that a dust control management plan be developed which identifies and mitigates all activities that may generate airborne and visible fugitive dust and that buffer zones be established wherever possible.

3. Standard comments for the Clean Air Branch are at:
<https://health.hawaii.gov/epo/landuse/>

Clean Water Branch

1. All project activities shall comply with the HAR, Chapters 11-53, 11-54, and 11-55. The following Clean Water Branch website contains information for agencies and/or project owners who are seeking comments regarding environmental compliance for their projects with HAR, Chapters 11-53, 11-54, and 11-55:
<https://health.hawaii.gov/cwb/clean-water-branch-home-page/cwb-standardcomments/>.

Hazard Evaluation & Emergency Response Office

1. A Phase I Environmental Site Assessment (ESA) and Phase II Site Investigation should be conducted for projects wherever current or former activities on site may have resulted in releases of hazardous substances, including oil or chemicals. Areas of concern include current and former industrial areas, harbors, airports, and formerly and currently zoned agricultural lands used for growing sugar, pineapple or other agricultural products.
2. Standard comments for the Hazard Evaluation & Emergency Response Office are at:
<https://health.hawaii.gov/epo/landuse/>.

Indoor and Radiological Health Branch

1. Project activities shall comply with HAR Chapters 11-39, 11-45, 11-46, 11-501, 11-502, 11-503, 11-504.
2. Construction/Demolition Involving Asbestos: If the proposed project includes renovation/demolition activities that may involve asbestos, the applicant should contact the Asbestos and Lead Section of the Branch at <https://health.hawaii.gov/irhb/asbestos/>.

Safe Drinking Water Branch

1. Agencies and/or project owners are responsible for ensuring environmental compliance for their projects in the areas of: 1) Public Water Systems; 2) Underground Injection Control; and 3) Groundwater and Source Water Protection in accordance with HAR Chapters 11-19, 11-20, 11-21, 11-23, 11-23A, and 11-25. They may be responsible for fulfilling additional requirements related the Safe Drinking Water program:
<https://health.hawaii.gov/sdwb/>.
2. Standard comments for the Safe Drinking Water Branch can be found at:
<https://health.hawaii.gov/epo/landuse/>.

Solid & Hazardous Waste Branch

1. Hazardous Waste Program - The state regulations for hazardous waste and used oil are in HAR Chapters 11-260.1 to 11-279.1. These rules apply to the identification, handling, transportation, storage, and disposal of regulated hazardous waste and used oil.
2. Solid Waste Programs - The laws and regulations are contained in HRS Chapters 339D, 342G, 342H and 342I, and HAR Chapters 11-58.1, and 11-282. Generators and handlers of solid waste shall ensure proper recycling or disposal at DOH-permitted solid waste management facilities. If possible, waste prevention, reuse and recycling are preferred options over disposal. The Office of Solid Waste Management also oversees the

electronic device recycling and recovery law, the glass advanced disposal fee program, and the deposit beverage container program.

3. Underground Storage Tank Program – The state regulations for underground storage tanks are in HAR Chapter 11-280.1. These rules apply to the design, operation, closure, and release response requirements for underground storage tank systems, including unknown underground tanks identified during construction.
4. Standard comments for the Solid & Hazardous Waste Branch can be found at: <https://health.hawaii.gov/epo/landuse/>.

Wastewater Branch

IWS (individual wastewater system) installation including spacing must comply with Hawaii Administrative Rules Title 11 Chapter 62.

By Revised Statute 11-62-31.1 If the parcel is less than 10,000sq feet, an individual onsite waste-water unit may not be possible for future construction. Please contact Sina Pruder at the DOH waste-water branch at 808-586-4288 for further information. For comments, please email the Wastewater Branch at doh.wwb@doh.hawaii.gov.

Sanitation / Local DOH Comments:

1. Noise may be generated during demolition and/or construction. The applicable maximum permissible sound levels, as stated in Title 11, HAR, Chapter 11-46, "Community Noise Control," shall not be exceeded unless a noise permit is obtained from the Department of Health.
2. According to HAR §11-26-35, No person, firm, or corporation shall demolish or clear any structure, place, or vacant lot without first ascertaining the presence or absence of rodents that may endanger public health by dispersal from such premises. Should any such inspection reveal the presence of rodents, the rodents shall be eradicated before demolishing or clearing the structure, site, or vacant lot. A demolition or land clearing permit is required prior to demolition or clearing.

Other

1. [CDC - Healthy Places - Healthy Community Design Checklist Toolkit](#) recommends that state and county planning departments, developers, planners, engineers, and other interested parties apply these principles when planning or reviewing new developments or redevelopment projects.
2. If new information is found or changes are made to your submittal, DOH reserves the right to implement appropriate environmental health restrictions as required. Should there be any questions on this matter, please contact the Department of Health, Kauai District Health Office at 808-241-3492.

Ellis Jones

Ellis Jones

District Environmental Health Program Chief
Office Phone: (808) 241-3326

JOSH GREEN, M.D.
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAII'
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA 'OIHANA KUMUWAIWAI 'ĀINA

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD, STE 555
KAPOLEI, HAWAII 96707

DAWN N.S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
RYAN K.P. KANAKA'OLE
FIRST DEPUTY
DEAN D. UYENO
ACTING DEPUTY DIRECTOR - WATER
AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

March 14, 2024

Ka'āina S. Hull, Director
County of Kaua'i
Planning Department
4444 Rice Street, Suite A473
Līhu'e, Hawai'i 96766
khull@kauai.gov

IN REPLY REFER TO:
Project No. 2024PR00171
Doc. No. 2403DB04
Archaeology

Dear Mr. Hull:

**SUBJECT: Hawaii Revised Statutes (HRS) Chapter 6E-42 Historic Preservation Review –
County of Kaua'i Special Management Area Use Permit Application SMA(U)-2024-8
Fisher Commercial Boat Facility and Residential Project – Kaumuali'i Hwy
Owner: Nathaniel Fisher – Hokuaina Development LLC
Waimea Ahupua'a, Kona District, Island of Kaua'i
TMK: (4) 1-2-013:039 and 040**

This letter provides the State Historic Preservation Division's (SHPD's) HRS §6E-42 review of the County of Kaua'i Special Management Area Use Permit Application SMA(U)-2024-8, for the Fisher Commercial Boat Facility and Residential Project. Our office received the submittal on February 7, 2024, which included the SMA Permit Application Packet, site/project plans, TMK map, aerial and site photographs, and the following three supporting documents: (1) *Final Environmental Assessment for Commercial Boat Facility and Residential Dwellings, Lot Nos. 64 and 65, TMK Nos. (4) 1-2-013:039 and 040* (Belles Graham LLP, January 2024); (2) *Ka Pa'akai Analysis for Hale Wa'a – Native Hawaiian Traditions, Customary Practices and Perspectives of Waimea Ahupua'a, 'ili of "Kikīaola, Moku o Kona, Kaua'i Island, for TMK (4) 1-2-013:039 and 040* (Exploration Associates Ltd., March 2023); and (3) *Archaeological Assessment of a 1.88 Acre Project Area for County of Kaua'i, SMA Application for Hale Wa'a, Waimea Ahupua'a, 'ili of "Kikīaola, Moku o Kona, Kaua'i Island at TMK (4) 1-2-013:040 (lot 65)* (McMahon, April 2023).

The project area comprises a ~5,000-sq.-ft. portion of each parcel. These parcels were subdivided via a Subdivision Application in 2006 (S-2005-24). The applicant proposes to construct a commercial boating facility and have two residential dwellings for long term rental and worker housing on the mauka side of the subject properties to comply with the County of Kaua'i CZO. The purpose of the project is to provide alternative boating facilities for a commercial boating operation at Kikīaola Small Boat Harbor whereby patrons will park, check-in, gear up and load up to depart to board vessels at the Small Boat Harbor for commercial boat tours. Each parcel will include a single-family dwelling unit (1,000 sq. ft.), a boat shed (2,160 sq. ft.), gravel parking, driveway, fencing, and related site utilities.

Previous archaeological work covering the project area included an AIS that was conducted within TMK: (4) 1-2-013:040 (McMahon, April 2023) that resulted in negative findings. However, previous archaeological studies conducted nearby have identified burial sites by Waimea Plantation Cottages (Site 50-30-05-01853 and Site 50-30-05-01854), a burial site at Aloha Kauai Villas (Site 50-30-05-03911) that was exposed during construction of a swimming pool and reinterred within the northwest corner of the TMK (4) 1-2-013:031, and a burial site (Site 50-30-05-03941) at Kekaha House Lots (TMK: (4) 1-3-005:045). Additionally, a Chinese Cemetery (Site 50-30-05-00613) and a Japanese Cemetery (Site 50-30-05-00612) are situated to the east of the project area.

Mr. Michael Moule
March 14, 2024
Page 2

The Ka Pa'akai Analysis (Exploration Associates LLP, March 2023) recommended archaeological monitoring for the proposed project. Additionally, the USDA soil survey (Foote et. al 1972) identifies the soil within the project area as Jaucas loamy fine sand, dark variant, 0 to 8 percent slopes (JkB). Based on the soils present, potential exists to encounter intact subsurface historic properties or human burials, which have been known to be found within these coastal areas.

At this time, the SHPD has insufficient information for making a determination that the project will not adversely affect significant archaeological historic properties or human burials. Therefore, **SHPD requests archaeological monitoring for identification purposes** be conducted for the project to identify any archaeological historic properties or burials present and, if identified, to determine potential impacts to them, and to ensure that appropriate mitigation is implemented. For a list of firms with permits to conduct archaeological work in Hawai'i, visit SHPD's website at: <http://dlnr.hawaii.gov/shpd/about/branches/archaeology>.

SHPD also requests an archaeological monitoring plan (AMP) meeting the requirements of HAR §13-279-4 be submitted for SHPD review and acceptance prior to issuance of the permit. Please submit the AMP, the associated submittal review fee, and a copy of this letter to HICRIS Project 2024PR00171 using the Project Supplement option.

SHPD shall notify the County when the AMP is accepted, and the permit issuance process may continue.

Please contact David Buckley, Kaua'i Lead Archaeologist, at (808) 462-3225 or at David.Buckley@hawaii.gov for questions regarding this letter.

Mahalo,

Alan Downer

Alan S. Downer, PhD
Administrator, State Historic Preservation Division
Deputy State Historic Preservation Officer

cc: Romio Idica, Kaua'i County Planning Department, ridica@kauai.gov
Ian K. Jung, Belles Graham LLP, ikj@kauai-law.com



County of Kauai
Planning Department
4444 Rice St., Suite A473 Lihue, HI 96766
(808) 241-4050

FROM: Kaaina S. Hull, Director

Planner: Romio Idica

2/28/2024

SUBJECT: Zoning Class IV Z-IV-2024-3
Use Permit U-2024-3
Special Mgt Area Permit SMA(U)-2024-8
Shoreline Setback Var SSV-2024-1
Tax Map Key: 120130390000 & 12130400000
Applicant: Nathaniel Fisher
Commercial Boat Facility

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| <input type="checkbox"/> State DLNR - Conservation & Coastal Lands | <input type="checkbox"/> UH Sea Grant |
| <input checked="" type="checkbox"/> Office of Hawaiian Affairs | <input type="checkbox"/> Other: |

COMMENTS from DPW Engineering (4/3/2024):

We have completed our review and offer the following comments:

1. The applicant shall comply with all provisions of the "Sediment and Erosion Control Ordinance No. 808" to safeguard public health, safety, and welfare, to protect property, and to control soil erosion and sedimentation. This shall include, but not be limited to, a grading and/or grubbing permit in compliance with the County's Sediment and Erosion Control Ordinance, which is required if any of the following conditions apply:
 - The work area exceeds one (1) acre.
 - Grading involving excavation or embankment, or combination thereof exceeds 100 cubic yards.
 - Grading exceeds five (5) feet in vertical height or depth at its deepest point.
 - The work area unreasonably alters the general drainage pattern to the detriment of abutting properties.
2. During construction, best management practices (BMPs) shall be incorporated to the maximum extent practicable to prevent damage by sedimentation, erosion, or dust to watercourses, natural areas, and other properties. The permittee and the property owner shall be responsible for ensuring that BMPs are satisfactorily implemented at all times.
3. Based on Panel 1500020254F dated November 26, 2010, the property is located within Special Flood Hazard Area (SFHA) Zone VE, AE & XS. The proposed improvements will need to comply with the County's Floodplain Management Ordinance No. 831.

Digitally signed by Michael
Moule
Date: 2024.04.03 10:17:30 -10'00'

Michael Moule, P.E.
Chief, Engineering Division

This matter is scheduled for a public hearing before the County of Kauai Planning Commission on 4/9/2024 at the Lihue Civic Center, Moikeha Building, Meeting Room 2A-2B, 4444 Rice Street, Lihue, Kauai, at 9:00 am or soon thereafter. If we do not receive your agency comments within one (1) month from the date of this request, we will assume that there are no objections to this permit request. Mahalo!

DEPARTMENT OF PLANNING

KA'ĀINA HULL, DIRECTOR

JODI A. HIGUCHI SAYEGUSA, DEPUTY DIRECTOR



DEREK S.K. KAWAKAMI, MAYOR
REIKO MATSUYAMA, MANAGING DIRECTOR

DIRECTOR'S REPORT

I. SUMMARY

**Action Required by
Planning Commission:**

Consideration of Class IV Zoning Permit, Use Permit, Shoreline Setback Variance and Special Management Area Use Permit for the construction and operation of a commercial boating facility and construction of two (2) single-family residences.

Permit Application Nos.

Special Management Area Use Permit SMA(U)-2024-8
Class IV Zoning Permit Z-IV-2024-3
Use Permit U-2024-3
Shoreline Setback Variance Permit SSV-2024-1

Name of Applicant(s)

NATHANIEL FISHER, APPLICANT
BELLES GRAHAM LLP, IAN K. JUNG, AUTHORIZED AGENT

II. PERMIT INFORMATION

PERMITS REQUIRED	
<input checked="" type="checkbox"/> Use Permit	Pursuant to Section 8-3.2 of the KCC, 1987, as amended, a Class IV Zoning Permit is a procedural requirement for obtaining a Use Permit in the Open/ Special Treatment Coastal Edge (O/ ST-E).
<input type="checkbox"/> Project Development Use Permit	
<input checked="" type="checkbox"/> Variance Permit	Pursuant to Section 8-27.10 of the KCC, a Shoreline Setback Variance is necessary to allow development within the shoreline setback area.
<input type="checkbox"/> Special Permit	
<input checked="" type="checkbox"/> Zoning Permit Class <input checked="" type="checkbox"/> IV <input type="checkbox"/> III	Pursuant to Section 8-3.1 of the KCC, 1987, as amended, a Class IV Zoning Permit is a procedural requirement for obtaining a Use Permit in the Open/ Special Treatment Coastal Edge (O/ ST-E) Zoning District.
<input checked="" type="checkbox"/> Special Management Area Permit <input checked="" type="checkbox"/> Use <input type="checkbox"/> Minor	Pursuant to Section 205A of the Hawai'i Revised Statutes (HRS) and the Special Management Area (SMA) Rules and Regulations of the County of Kaua'i, a SMA Use Permit is required as defined in Section 7.3(C) of the SMA Rules and Regulations where the

F.2.a.3.
April 9, 2024

	Director finds that the proposal (1) is a "Development" as defined in Section 1,4f; and (2) is in excess of \$500, 000.
AMENDMENTS	
<input type="checkbox"/> Zoning Amendment	
<input type="checkbox"/> General Plan Amendment	
<input type="checkbox"/> State Land Use District Amendment	

Date of Receipt of Completed Application: January 17, 2024

Date of Director's Report: March 19, 2024

Date of Public Hearing: April 9, 2024

Deadline Date for PC to Take Action (60TH Day): March 17, 2024

III. PROJECT DATA

PROJECT INFORMATION			
Parcel Location:	The subject sites are located along the makai side of Kaumuali'i Highway, approximately 0.2 miles west of Kikīaola Small Boat Harbor		
Tax Map Key(s):	(4) 1-2-013:039, 040 (Lots 64 & 65)	Area:	Lot 64: 1.1120 acres Lot 65: 1.1880 acres
ZONING & DEVELOPMENT STANDARDS			
Zoning:	Open/ Special Treatment Coastal Edge (O/ ST-CE)		
State Land Use District:	Urban		
General Plan Designation:	Residential Community		
Height Limit:	Thirty (30) feet		
Max. Land Coverage:	Shall not exceed 10% of the lot or parcel area.		
Parking Requirement:	Two (2) per dwelling		
Front Setback:	Ten (10) feet		
Rear Setback:	Five (5) feet or 1/2 the total height of the highest building wall from the ground level nearest the property line, whichever is greater.		
Side Setback:	Five (5) feet or 1/2 the total height of the highest building wall from the ground level nearest the property line, whichever is greater.		
Community Plan Area:			
Community Plan Land Use Designation:			

Deviations or Variances Requested:	
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IV. LEGAL REQUIREMENTS

Section 8-3.1(f), KCC:	This report is being transmitted to the Applicant and Planning Commission in order to satisfy the requirements of Section 8-3.1 (f), relating to the provision of the Planning Director’s report and recommendation on the subject proposal within sixty (60) days of the filing of a completed application. The application was received on January 17, 2024, and the Applicant, through its authorized agent, was notified accordingly of the Planning Department’s intent to commence permit processing.
Public Hearing Date:	April 9, 2024

V. PROJECT DESCRIPTION AND USE

This project concerns two (2) lots identified as Tax Map Key Numbers (4) 1-2-013:039 (Lot 64) and parcel 040 (Lot 65), collectively referred to as “Subject Properties.” These lots were part of a four-lot subdivision that was processed through Subdivision Application File No. S-2005-24. The County tax assessment records identify Lot 64 containing approximately 1.112 acres, and Lot 65 contains approximately 1.188 acres. Both properties are situated within County Open/ Special Treatment-Coastal Edge (O/ST-CE) zoning district and fall within the Special Management Area. Currently, both properties are vacant.

As represented by the Applicant, the proposed development involves the construction of two (2) Commercial Boat Facilities and construction of two (2) residential dwellings on the northern (mauka) side of the Subject Properties (closest to the highway) in accordance with the County of Kauai’s Shoreline Ordinance. The project entails the following on the Subject Properties:

- Lot 64: Single-family residence spanning 1,000 square feet, a 2, 160 square foot boat shed, gravel parking, driveway, fencing, and associated site utilities (See Exhibit “E-1”).
- Lot 65: Single-family dwelling of 1,000 square feet, a 2,160 square foot boat shed, gravel parking, driveway, fencing, and related site utilities (See Exhibit “E-2”).

The commercial use of the property will involve providing parking for patrons to check in, necessary preparation for the boat tour, and boarding shuttle buses to the Kīkīaola Small Boat Harbor for the scenic tour.

VI. APPLICANT’S REASONS/JUSTIFICATION

The Applicant proposes to establish an existing commercial boating operation to assist in reducing user impacts, such as alleviating customer congestion at the Kīkīaola Small Boat Harbor. The two (2) dwelling units will be used for residential, employee housing and/or long-term rental use.

VII. ADDITIONAL FINDINGS

1. The Subject Properties are located between the urban area of Waimea and the residential area of Kekaha. To the southwest of the properties is Kikīaola Small Boat Harbor, established by the State of Hawai'i in 1959. Vehicular access to the property is from Kaumuali'i Highway.
2. The project site is within the State Urban Land Use Urban District (SLUD), which facilitates urban activities within the specified region. According to the Kaua'i County General Plan (GP), the Subject Properties carries a designation of "Residential Community," signifying areas predominantly residential with minimal alternative uses.
3. The subject parcel is located within Zone "XS" of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). The proposed development will occur in Zone "XS". FIRM Zone designation of "XS" are areas of 0.2% annual chance of flood and specified as areas of 1% annual chance of flood with average depths of less than 1 foot. It is also noted that the subject parcel is in the tsunami evacuation area.
4. Lot 64 exhibits a 1% positive slope from the mauka portion of the property adjacent to Kaumuali'i Highway, descending towards the makai side of the property. Contrarily, Lot 65 features a downward slope of -4% from mauka to makai.
5. CZO Development Standards
The proposed development is subjected to standards prescribed in Sections 8-4.3, 8-4.5, 8-9.2, 8-11.4, and 8-27.3:
 - a. Setback Requirements: Front property line setbacks are ten feet (10'-0") with a side and rear property line setback of five feet (5'-0") or half the distance of the wall plate height whichever is greater.
 - b. Setback between buildings: The distance between buildings shall be ten (10) feet minimum.
 - c. Parking Requirements: The Applicant shall provide a minimum of two (2) off-street parking spaces for each dwelling unit.
 - d. Land/ Lot Coverage: The subject property has a county zoning designation of County Open/ Special Treatment-Coastal Edge (O/ST-CE). The allowable land coverage should not exceed more than 10% of the lot or parcel area.
 - e. Shoreline Setback Determination: The Subject Properties have an average depth greater than 220 feet and are shoreline abutting properties. The shoreline is a sandy shoreline with an erosion rate of 3.9 to 4.3 feet a year. Using the calculations as prescribed in Table 1 Sec. 8-27.3, the required shoreline setback would be 333 to 361 feet from the certified shoreline.

VIII. AGENCY COMMENTS

Attached through separate transmittal.

IX. PRELIMINARY EVALUATION

In evaluating the Applicant's request to allow the construction of the proposed development, the following should be considered:

1. General Plan

The proposed development was evaluated through the following policies of the General Plan, as taken from Section 1.4 and 3.0:

A. Section 1.4, entitled "POLICIES TO GUIDE GROWTH"

i. Policy #3 "Recognize the Identity of Kaua'i's Individual Towns and Districts"

The Subject Properties are a part of a four-lot subdivision which was approved back in 2005. Situated between a relatively undeveloped area of land, the project Area lies between the urban area of Waimea and the residential district of Kekaha.

ii. Policy #6 "Reduce the Cost of Living"

The Applicant aims to implement an existing commercial boating operation in addition to providing residential accommodation for employees or long-term rentals.

iii. Policy #14 "Prepare for Climate Change"

The proposed structures of the project will be placed as far mauka of the Subject Properties as possible. This placement allows for boat parking while ensuring no encroachment occurs upon existing easements located north of the Subject Properties along Kaumuali'i Highway.

B. Section 3.0, Actions by Sector, Subsection Sector X, entitled "Opportunity & Health for all states for permitting, objectives, and partnership needs:

i. Permitting - Provide affordable housing in proximity to community resources and services.

The proposed project involves construction of single-family residences and operation of a commercial boating facility on Lots 64 and 65. The single-family residences will be used as employee housing or long-term rental units.

ii. Objectives - To actively protect, restore, and increase access to the places where recreational and subsistence activity occurs.

The proposed project will not reduce or impose restrictions on public access to tidal and submerged lands, beaches, portions of rivers and streams within the SMA.

- iii. Partnership needs- Increase opportunities for access to subsistence, hunting, fishing, and gathering.

The Applicant proposes to operate an existing commercial boating facility on the Subject Properties. Parking will be provided for their customers and shuttled to the docked boats at Kikialoa Small Boat Harbor. This will help mitigate parking congestion that is currently happening at Kikialoa. The easing of customer parking will allow local fisherman to park their trailers and use the harbor for subsistence fishing.

2. Native Hawaiian Traditional Cultural Rights

The analysis involved interviewing Native Hawaiian elders, cultural practitioners, descendants, and knowledgeable community members from the Waimea, Kekaha, and Kīkīāola Communities. Additionally, it examined archival research, including prior archaeological records and recent inspections to gather information on traditional Hawaiian sites, resources, and cultural practices within the project area.

Previous archaeological investigations conducted in Kīkīāola have documented several historical properties that demonstrate the utilization of the landscape as a cultural resource. These include burial sites SIHP # 50-30-05-1853 and 50-30-05-1854 near Waimea Plantation Cottages, burial site SIHP # 50-30-05-3911 at Aloha Kaua'i Villas (4491 Kīkīāola Place), and burial site SIHP # 50-30-05-3941 at Kekaha House Lots (TMK: (4) 1-3-005:045). Prior archaeological research suggests that burials are commonly found in sandy dunes on Kaua'i.

No historic properties have been found within the project area. Field investigations in the project area did not uncover any evidence of significant plants or natural resources linked to Hawaiian gathering right for cultural or religious practices. The project area predominantly features non-native plants. However, there is a Chinese Cemetery (SIHP # 50-30-05-613) and a Japanese Cemetery (SIHP # 50-30-05-612) located just east of the project area.

The consultant for the Applicant interviewed community members with ties to Kīkīāola to analyze whether any Native Hawaiian traditional and cultural rights were identified and impacted, which resulted in the following findings:

- Community members are generally supportive of the project with no concerns about its impact on traditional practices.
- While the Kekaha region has cultural significance, no on-going Native Hawaiian cultural resources or practices were identified in the project area.
- There is potential for the project and its vicinity to contain cultural and historic properties, including human burials.
- Since the construction of the Kīkīāola Small Boat Harbor, no offshore fishing has occurred from the project area. Local fishermen endorse the proposed project, anticipating reduced visitor traffic and improved local parking access at the harbor.

According to the research, outreach, and investigation carried out by the Applicant, no Native Hawaiian traditional cultural rights were identified to exist on the property. The analysis provided by the consultant does not anticipate potential impacts on the customary and traditional cultural practices of Native Hawaiian or other ethnic groups, which typically exercised for subsistence, cultural, or religious purposes, resulting from the proposed single-family dwellings and boat sheds (commercial boating facility).

Although no Native Hawaiian traditional cultural practices were identified and impacted, the Applicant has proposed the following measures:

1. Project proponents address concerns presented by Ka Pa'akai Analysis participants by avoiding harm as result of ground disturbance to cultural and natural resources (e.g., burials). Minimizing digging to prevent disturbance of burials is recommended.
2. The proposed project proceeds under an archaeological monitoring program that utilizes a combination of on-site and on-call monitoring. As suggested in the companion Archaeological Inventory Survey (AIS) (refer to Exhibit "F-3"), due to the sensitive nature of the project area and the potential for project related ground disturbance during construction, a monitoring program would facilitate the identification and documentation of any historic properties that might be discovered during project construction. More specifically, it is suggested that an archaeological monitor be present during all subsurface activities involving deeper excavation work (i.e., septic system). If on-site monitoring continues to yield no subsurface finds, monitoring might be amended from on-site to on-call, with agreement from SHPD.
3. The owner be responsible for maintenance and upkeep of vegetation to prevent overgrowth of invasive species.
4. Generally, it is recommended that project proponents pursue proactive dialog with concerned Kekaha/Waimea community members and agencies regarding planning, implementation, and maintenance of the proposed construction project in order to address issues raised by study participants in this Ka Pa'akai Analysis.

It is noted that should testimony reveal any Native Hawaiian traditional cultural rights exist and may be impacted, the Department reserves the right to amend this analysis.

3. Special Management Area (SMA) Rules and Regulations

The COK SMA Rules and Regulations contain objectives, policies and guidelines designed to protect coastal resources. Within the SMA, special consideration is given to recreational opportunities, cultural and historic resources, scenic qualities and open space, coastal ecosystems, and coastal hazards. In evaluating the proposed development relative to the goals and objectives of the SMA Rules and Regulations, the following aspects are taken into consideration:

- a. Public Access and Coastal Recreation - Apart from beach-related activities near the shoreline, there are no public recreational opportunities occurring on the Subject

Properties. There are beach access easements along the makai portion of the Subject Properties. The proposed development is expected to have minimal adverse effects on public recreation opportunities and negligible impacts on any exiting public beach, river, or mountain access.

- b. Cultural/ Historical Resources - The proposed project is not expected to significantly impact historic, cultural, or archaeological resources situated on or near the Subject Properties. The project is proposed within an approved subdivision. The Applicant conducted an Archaeological Assessment (See Exhibit "F-3"), including test trenching at proposed footing locations for the structures, which Exploration Associates, Ltd. conducted without discovering any cultural deposits. Furthermore, the Applicant's consultant noted no surface indications of subsurface cultural deposits. Although not ruled out entirely, given the prior ground disturbance of the Subject Properties, the Applicant will adhere to HRS Chapter 6E-42 if any cultural deposits and/or iwi kūpuna are uncovered.
- c. Scenic and Open Space Resources - The proposed project shall have minimal negative impacts on the scenic and open space resources surrounding the Subject Properties. Visual impacts from Kaumuali'i Highway will be addressed through landscaping on the properties and the use of earth tone colors and non-reflective windows for the proposed structures.
- d. Coastal Ecosystems - The Subject Properties currently feature mainly beach heliotrope, beach wiregrass, and kiawe, which encompass most of the area. None of these plant species are considered threatened, rare, or endangered. Throughout the construction of the project, if any native or other coastal plant species in the area discovered, they will be carefully relocated and planted in the undeveloped sections of the Subject Properties. Additionally, any other vegetation affected will be temporarily removed and replanted once the work is completed.

No threatened, rare, or endangered animal species are known to inhabit the project area. Avian species observed on the Subject Properties include red jungle fowl, spotted dove, great frigate bird, brown booby, cattle egret, warbling white eye, common myna, African Silver bill, scaly-breasted munia, house sparrow, house finch, northern cardinal, saffron finch, and Pacific golden fowl. While some birds and rodents may experience temporary displacement during construction, they are expected to find accommodation in shoreline vegetation. No sensitive habitat areas have been identified within the project site.

- e. Coastal Hazards - The Subject Properties lays within Zone "XS" of the FEMA Flood Insurance Rate Map, and the proposed development will also take place in Zone "XS". It is also noted that the Subject Properties are in the tsunami evacuation area. All drainage resulting from construction activities and the increase in land coverage will be contained on site and managed according to best management practices. There is no expectation of additional drainage causing significant or adverse impacts on the surrounding areas.

4. CZO Development Standards

As proposed the project complies with the land coverage, setback, and off-street parking requirements for development within the County Open/ Special Treatment-Coastal Edge (O/ST-CE), as specified in Sections 8-4.3, 8-4.5, 8-9.2, and 8-11.4 of the Comprehensive Zoning Ordinance (CZO).

Finally, it is uncertain as to whether the Applicant has made provisions for night illumination with the project, based on the preliminary plans that have been submitted. If so, night illumination should be designed to minimize adverse impacts on the Federally Listed Threatened Species, Newell's Shearwater and other seabirds. Night lighting should be shielded from above and directed downwards and shall be approved by the U.S. Dept. of the Interior Fish and Wildlife Service. If external lighting is to be used in connection with the proposed project, all external lighting should be only of the following type: *downward-facing shielded lights*. Spotlights aimed upward or spotlighting of structures is prohibited.

5. Use Permit

a. Pursuant to Article 3 of the Comprehensive Zoning Ordinance (CZO), Chapter 8 of the Kaua'i County Code (1987), the purpose of the Use Permit Procedure is to assure the proper integration into the community of uses which may be suitable only in specific locations of a district, or only under certain conditions, or only if the uses are designed, arranged or conducted in a particular manner, and to prohibit the uses if proper integration cannot be assured. Section 8-3.2 of the CZO specifies a Use Permit may be granted only if the Planning Commission finds that the use meets the following criteria:

- 1) The use must be a compatible use;
- 2) The use must not be detrimental to persons or property in the area;
- 3) The use must not cause substantial environmental consequences; and
- 4) The use must not be inconsistent with the intent of the Comprehensive Zoning Ordinance (CZO).

b. Based on the foregoing, the following aspects are considered:

1. **Compatible Use** – The proposed development is designed to be integrated with the surrounding area. The project is adjacent to residential housing to the north, undeveloped land to the east (including two (2) cemeteries) and Kīkīaola Small Boat Harbor, with the ocean to the south of the Subject Properties. The proposed use is compatible with the surrounding environment and is not expected to impact urban activities in the area and the coastal environment.

6. Variance Permit

In consideration the proposed shoreline setback deviation, the following criteria is noted:

a. Pursuant to Section 8-3.3 of the CZO, KCC (1987) as amended, Variances from the terms of this Chapter shall be granted only if it is found that because of special circumstances applicable to the property, including size, shape, topography, location or surroundings, the strict application of the regulations deprives the property of privileges enjoyed by

other property in the vicinity and within the same District, and the Applicant shows that he or she cannot make a reasonable use of the property if the regulations are applied. Where these conditions are found, the Variance permitted shall be the minimum departure from existing regulations necessary to avoid the deprivation of privileges enjoyed by other property and to facilitate a reasonable use, and which will not create significant probabilities of harm to property and improvements in the neighborhood or of substantial harmful environmental consequences. Financial hardship to the Applicant is not a permissible basis for the granting of a Variance.

b. Based on the above, the following is contemplated regarding the variance standards:

- 1) **Deprives Privileges.** In applying the shoreline setback requirements pursuant to Article 27, Chapter 8 of the Kauai County Code (1987), the setback would encompass the entire parcel and as a result, no structure would be permissible. As a result, the strict application of the regulations would deprive the property of privileges enjoyed by other property in the vicinity and within the same District. It is noted that the other properties in the vicinity of the project site already contain residential structures on their properties that would have been prevented if the current setback line was applied. To the west of the Subject Properties on TMKs: (4) 1-2-013:031, 032, and 034 are shoreline abutting properties with an erosion rate ranging from 1.8 to 2.4 feet per year. In applying the current shoreline setback standard, it would require a shoreline setback of 186 to 228 feet away from the certified shoreline. Presently, the structures on the neighboring properties are located between 34 to 127 feet from the evidence shoreline. If the setback regulations were to be strictly applied, no structures would be permitted on any of the neighboring properties as well. Thus, the strict application of the setback regulations would deprive the subject Applicants properties of privileges that the neighboring properties enjoy.
- 2) **No Reasonable Use.** The Applicant has showed that he/she cannot make a reasonable use of the property if the regulations are applied. The shoreline setback variance involves the construction of the new structures within the shoreline setback area. The Subject Properties are abutting the shoreline, with an erosion rate of 3.9 to 4.3 feet a year. In applying the shoreline setback standard, the required shoreline setback would be 333 to 361 feet from the certified shoreline which would encompass both lots entirely. As represented, the structures are to be placed approximately 312 feet from the certified shoreline and at a location that would be further mauka of the shoreline. Thus, if the setback was applied, no structures would be allowed on the subject lot of record.
- 3) **Minimum Departure.** The proposed deviation (approximately 40-50 feet) is considered a minimum departure from existing regulations in order to avoid

the deprivation of privileges enjoyed by other property, and to facilitate reasonable use. The Planning Department would propose conditions to require the Applicant to remove structures no later than twelve (12) months from the year 2096, when the erosion is anticipated to impact the property, or when the structures are undermined by coastal erosion (not counting storm events), whichever comes first.

- 4) **Will not create significant probabilities of harm.** Allowing the structures on the property would not create significant probabilities of harm to property and improvements in the neighborhood or of substantial harmful environmental consequences. Although the Applicant is seeking a deviation from the County of Kaua'i's Shoreline ordinance to allow the proposed developments on Lots 64 and Lot 65 to be constructed within the shoreline setback area, the Department will propose conditions that will require the Applicant to remove the structures at its own expense. Based on the erosion rate and proposed placement of the structures, it is anticipated that coastal erosion will reach the structures by the year 2096 (312 ft. divided by 4.3 foot per annum equals 72 yrs.). Thus, the Planning Department will propose conditions to require the Applicant to remove structures no later than twelve (12) months from the year 2096, when the erosion is anticipated to impact the property, or when the structures are undermined by coastal erosion (not counting storm events), whichever comes first.

X. PRELIMINARY CONCLUSION

Based on the foregoing analysis, it is determined that through proper mitigative measures the proposed development complies with the policies of the County General Plan, Comprehensive Zoning Ordinance, and guidelines of the Special Management Area Rules and Regulations. It is further noted that:

1. The development should not have any substantial adverse environmental or ecological effect.
2. The proposed development should not have any detrimental impact to the environment or the surrounding area and be in compliance with the criteria outlined for the granting of a Special Management Area Use Permit. The Applicant should institute the "Best Management Practices" to ensure that the operation of this facility does not generate impacts that may affect the health, safety, and welfare of those in the surrounding area of the proposal.

Furthermore, the proposal DOES NOT:

- involve dredging, filling, or otherwise altering any bay, estuary, salt marsh, river mouth, slough or lagoon;

- reduce the size of any beach or other area usable for public recreation;
- reduce or impose restrictions upon public access to tidal and submerged lands, beaches, rivers or streams within the special management area; and
- adversely affect water quality, existing areas of open water free of visible structures, existing and potential fisheries and fishing grounds, wildlife habitats, estuarine sanctuaries or existing agricultural uses of land.

XI. PRELIMINARY RECOMMENDATION

Based on the foregoing evaluation and conclusion, it is hereby recommended that the construction and operation of a commercial boating facility and construction of two (2) single-family residences through Class IV Zoning Permit Z-IV-2024-3, Use Permit U-2024-3, Special Management Area Use Permit SMA(U)-2024-8, and Shoreline Setback Variance Permit SSV-2024-1 be **approved** with the following conditions:


1. The proposed development shall be constructed and operated as represented. Any changes to the operation of the commercial boating facility and uses of the respective structures shall be reviewed by the County of Kaua'i, Department of Planning to determine whether Planning Commission review and approval is required.
2. The Applicant shall agree in writing that the Applicant, its successors, and permitted assigns shall defend, indemnify, and hold the County of Kaua'i harmless from and against any and all loss, liability, claim, or demand arising out of damages to said structure and this indemnification shall be included in the unilateral agreement required above.
3. To ensure that the project is compatible with its surroundings and to minimize the visual impact of the structures, the external colors of the commercial boating facility and proposed dwellings shall be moderate to dark earth-tone color. The proposed color and landscape plan should be submitted to the County of Kaua'i, Department of Planning for review and acceptance prior to building permit submittal.
4. Landscaping shall be used to screen the subject facilities from coastal and highway views. The landscaping shall utilize indigenous plants. All view plane easements shall be free and clear of any obstructions such as structures, hedges, and trees. All landscaping shall not artificially fix the shoreline and is in compliance with HRS Section 115-5.
5. The Applicant shall agree in writing that the Applicant, its successors, and permitted assigns shall defend, indemnify, and hold the County of Kaua'i harmless from and against any and all loss, liability, claim, or demand arising out of damages to said structure and this indemnification shall be included in the unilateral agreement required above.
6. The following feasible actions or mitigations will be taken to reasonably protect Native Hawaiian rights and resources:

- a. Project proponents address concerns presented by Ka Pa'akai Analysis participants by avoiding harm as result of ground disturbance to cultural and natural resources (e.g., burials). Minimizing digging to prevent disturbance of burials is recommended.
 - b. The proposed project proceeds under an archaeological monitoring program that utilizes a combination of on-site and on-call monitoring. As suggested in the companion Archaeological Inventory Survey (AIS) (See, Exhibit "F-3"), due to the sensitive nature of the project area and the potential for project related ground disturbance during construction, a monitoring program would facilitate the identification and documentation of any historic properties that might be discovered during project construction. More specifically, it is suggested that an archaeological monitor be present during all subsurface activities involving deeper excavation work (i.e., septic system). If on-site monitoring continues to yield no subsurface finds, monitoring might be amended from on-site to on-call, with agreement from SHPD.
 - c. The owner be responsible for maintenance and upkeep of vegetation to prevent overgrowth of invasive species.
 - d. Generally, it is recommended that project proponents pursue proactive dialog with concerned Kekaha/Waimea community members and agencies regarding planning, implementation, and maintenance of the proposed construction project in order to address issues raised by study participants in this Ka Pa'akai Analysis.
7. The Applicant shall be responsible to dismantle and dispose of the subject structures at its own expense no later than twelve (12) months from December 31, 2096 when the erosion is anticipated to impact the property or when the subject structures are undermined by coastal erosion (not counting storm events) as determined by the Department of Planning, whichever occurs sooner. Any proposal to relocate any structure shall be subject to the Department of Planning and/or Planning Commission review and approval. Further, the Applicant shall not apply for, construct, or install any shoreline hardening improvements.
 8. Should any archaeological or historical resources be discovered during ground disturbing/ construction work, all work in the area of the archaeological/ historical findings shall immediately cease and the Applicant shall contact the State Department of Land and Natural Resources, Historic Preservation Division and the County of Kaua'i, Department of Planning to determine mitigation measures.
 9. To minimize adverse impacts on the Federally Listed Threatened Species, Newell's Shearwater and other seabirds, if external is to be used in connection with the proposed project, all external lighting shall be only of the following types: downward facing, shielded lights, spotlights aimed upward of spotlighting of structures shall be prohibited.

10. The Applicant shall develop and utilize Best Management Practices (B.M.P's) during all phases of development to minimize erosion, dust, and sedimentation impacts of the project to abutting properties.
11. The Applicant shall resolve and comply with the applicable standards and requirements set forth by the State Health Department, State Historic Preservation Division-DLNR, Office of Hawaiian Affairs, and County Department of Public Works, Fire, Transportation, and Water.
12. To the extent possible within the confines of union requirements and applicable legal prohibitions against discrimination in employment, the Applicant shall seek to hire Kaua'i contractors as long as they are qualified and reasonably competitive with other contractors and shall seek to employ residents of Kaua'i in temporary construction and permanent resort-related jobs. It is recognized that the Applicant may have to employ non- Kauai residents for particular skilled jobs where no qualified Kaua'i residents possesses such skills. For the purposes of this condition, the Commission shall relieve the Applicant of this requirement if the Applicant is subjected to anti-competitive restraints on trade or other monopolistic practices.
13. The Applicant shall implement to the extent possible sustainable building techniques and operational methods for the project, such as Leadership in Energy and Environmental Design (L.E.E.D.) standards or another comparable state-approved, nationally recognized, and consensus-based guideline, standard, or system, and strategies, which may include but is not limited to recycling, natural lighting, extensive landscaping, solar panels, low-energy fixtures, low energy lighting and other similar methods and techniques. All such proposals shall be reflected on the plans submitted for building permit review.
14. The Planning Commission reserves the right to revise, add or delete conditions of approval in order to address or mitigate unforeseen impacts that the project may create, or revoke the permits through the proper procedures should conditions of approval not be complied with or violated.
15. Unless otherwise stated in the permit, once permit is issued, the Applicant must make substantial progress, as determined by the Director, regarding the development or activity within two (2) years, or the permit shall be deemed to have lapsed and be no longer in effect.

The Planning Commission is further advised that this report does not represent the Planning Department's final recommendation in view of the forthcoming public hearing process scheduled for April 9, 2024, whereby the entire record should be considered prior to decision making. The entire record should include but not be limited to:

- a. Pending government agency comments;
- b. Testimony from the general public and interested others; and
- c. The Applicant's response to staff's report and recommendation as provided herein.

By 
ROMIO IDICA
Planner

Approved & Recommended to Commission:

By 
KA'AINA S. HULL
Director of Planning
Date: 3/14/2024

CASE LOMBARDI
A LAW CORPORATION

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THE PARRISH COLLECTION, LLC as agent for
EDMUND GREGOIRE, LINDA GREGOIRE,
and MAULOA LLC

BEFORE THE HEARING OFFICER
OF THE PLANNING COMMISSION
OF THE COUNTY OF KAUAI

In the Matter of the Application

Of

Petition to Appeal Planning Director's
Decision Related to the Planning Director's
Cease and Desist and Forfeiture of TVRNCU
#4287 (Mau Loa Ohana) for the Failure to
Renew by April 18, 2023, related to the
property located at 4650 Amio Road, Koloa,
Kauai, Hawaii, further identified by TMK No.
(4) 2-6-011:019 containing 14,678 square
feet,

EDMUND GREGOIRE, LINDA GREGOIRE,
and MAULOA LLC

Petitioners,

vs.

PLANNING DEPARTMENT OF THE
COUNTY OF KAUAI

Respondent

CC-2023-4
TVNCU #4287
TMK: (4) 2-6-011:019

STIPULATION TO DISMISS WITH
PREJUDICE

HEARING (Scheduled):

Date: March 18 and 19, 2024

Time: Commencing at 9:00 a.m. on all days

STIPULATION TO DISMISS WITH PREJUDICE

IT IS STIPULATED AND AGREED, by the parties in this matter, through their respective attorneys, and hereby ORDERED that this appeal be dismissed with prejudice, with each party to bear their respective attorneys' fees and costs.

This stipulation is entered pursuant to Rule 1-6-6 of the Rules of Practice and Procedure of the Kaua'i County Planning Commission.

CASE LOMBARDI
A Law Corporation

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By /s/ Laura Barzilai
LAURA BARZILAI
Deputy County Attorney

Attorney for
PLANNING COMMISSION OF THE
COUNTY OF KAUAI

APPROVED AND SO ORDERED:

Hearing Dates of March 18, and 19, 2024 HEREBY VACATED:

/s/ Harlan Y. Kimura
HARLAN Y. KIMURA, Hearing Officer for the
Planning Commission of the County of Kaua'i

CASE LOMBARDI
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and MAULOA LLC

BEFORE THE HEARING OFFICER
OF THE PLANNING COMMISSION
OF THE COUNTY OF KAUAI

In the Matter of the Application

Of

Petition to Appeal Planning Director's
Decision Related to the Planning Director's
Cease and Desist and Forfeiture of TVRNCU
#4287 (Mau Loa Ohana) for the Failure to
Renew by April 18, 2023, related to the
property located at 4650 Amio Road, Koloa,
Kauai, Hawaii, further identified by TMK No.
(4) 2-6-011:019 containing 14,678 square
feet,

EDMUND GREGOIRE, LINDA GREGOIRE,
and MAULOA LLC

Petitioners,

vs.

PLANNING DEPARTMENT OF THE
COUNTY OF KAUAI

Respondent

CC-2023-4
TVNCU #4287
TMK: (4) 2-6-011:019

CERTIFICATE OF SERVICE

HEARING (Scheduled):

Date: February 18 and 19, 2024
Time: Commencing at 9:00 a.m. on all days

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that, on the date noted below, a true and correct copy of the foregoing documents was duly served upon the following parties, in the manner described thereto.

	<u>U.S. Mail</u>	<u>Hand Deliver</u>	<u>Email</u>
MATTHEW M. BRACKEN, ESQ. County Attorney CHRIS DONAHOE, ESQ. Deputy County Attorney County of Kaua'i 4444 Rice Street, Suite 220 Līhu'e, Kaua'i, HI 96766 Email: cdonahoe@kauai.gov Attorneys for Ka'āina S. Hull, Director, County of Kaua'i, Department of Planning			X
LAURA BARZILAI, ESQ. Deputy County Attorney County of Kaua'i 4444 Rice Street, Suite 220 Līhu'e, Kaua'i, HI 96766 Email: lbarzilai@kauai.gov Attorney for Planning Commission of the County of Kaua'i			X
ELLEN CHING Administrator Office of Boards and Commissions County of Kaua'i 4444 Rice Street, Suite 150 Līhu'e, Kaua'i, HI 96766 Email: eching@kauai.gov adavis@kauai.gov			X
HARLAN Y. KIMURA, ESQ. Central Pacific Plaza 220 South King Street, Suite 1660 Honolulu, Hawai'i 96813 Email: hyk@harlankimuralaw.com Hearing Officer for the Planning Commission of the County of Kaua'i			X

DATED: Honolulu, Hawai'i, February 27, 2024.

/s/ Samuel W. King II

MARK G. VALENCIA
SAMUEL W. KING II
Attorneys for Petitioners
THE PARRISH COLLECTION, LLC as agent for
EDMUND GREGOIRE, LINDA GREGOIRE,
and MAULOA LLC