

THE THIRTIETH LEGISLATURE
APPLICATION FOR GRANTS
CHAPTER 42F, HAWAII REVISED STATUTES

received
01/20/2023

Type of Grant Request:

Operating

Capital

Legal Name of Requesting Organization or Individual: Db:

Hui o Hauula

same

Amount of State Funds Requested: \$ 1,750,000

Brief Description of Request (Please attach word document to back of page if extra space is needed):

Koolauloa District on the North Shore of Oahu is experiencing more frequent and deadly flash flooding, severe erosion on Kamehameha Hwy, seal level rise, super King tides and a high probability of more frequent and intense hurricanes (for example our recent close call with Hurricane Douglas in 2020) and tsunamis due to Climate Change. There are no Hurricane Shelters. City and State say in an emergency we are on-our-own for 30+ days. We need to build a Resilience Hub to provide a FEMA Community Safe Room for shelter, food, water, power, medical and communication services.

Amount of Other Funds Available:

State: \$ 0

Federal: \$ 0

County: \$ 0

Private/Other: \$ 0

Total amount of State Grants Received in the Past 5 Fiscal Years:

\$ 330,000 pending

Unrestricted Assets:

\$ 50,000

New Service (Presently Does Not Exist): Existing Service (Presently in Operation):

Type of Business Entity:

501(C)(3) Non Profit Corporation

Other Non Profit

Other

Mailing Address:

PO Box 264

City:

Hauula

State:

HI

Zip:

96717

Contact Person for Matters Involving this Application

Name:
Dorothy (Dotty) Kelly Paddock

Title:
Executive Director

Email:
dotty.kellypaddock@gmail.com

Phone:
808-255-6944

Federal Tax ID#:

[REDACTED]

State Tax ID#

[REDACTED]


Authorized Signature

Dorothy Kelly-Paddock, Executive Director

Name and Title

Jan. 20, 2023

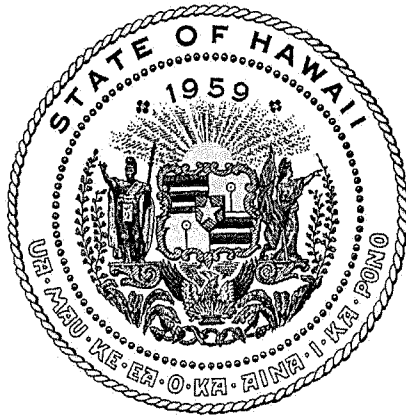
Date Signed

Application Submittal Checklist

The following items are required for submittal of the grant application. Please verify and check off that the items have been included in the application packet.

- X 1) Certificate of Good Standing (If the Applicant is an Organization)
- X 2) Declaration Statement
- X 3) Verify that grant shall be used for a public purpose
- X 4) Background and Summary
- X 5) Service Summary and Outcomes
- X 6) Budget
 - a) Budget request by source of funds ([Link](#))
 - b) Personnel salaries and wages ([Link](#))
 - c) Equipment and motor vehicles ([Link](#))
 - d) Capital project details ([Link](#))
 - e) Government contracts, grants, and grants in aid ([Link](#))
- X 7) Experience and Capability
- X 8) Personnel: Project Organization and Staffing

Doreen Kelly Padden, Executive Dir. *Jan. 20, 2023*
AUTHORIZED SIGNATURE PRINT NAME AND TITLE DATE



Department of Commerce and Consumer Affairs

CERTIFICATE OF GOOD STANDING

I, the undersigned Director of Commerce and Consumer Affairs of the State of Hawaii, do hereby certify that

HUI O HAU'ULA

was incorporated under the laws of Hawaii on 09/10/2014 ; that it is an existing nonprofit corporation; and that, as far as the records of this Department reveal, has complied with all of the provisions of the Hawaii Nonprofit Corporations Act, regulating domestic nonprofit corporations.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Department of Commerce and Consumer Affairs, at Honolulu, Hawaii.

Dated: January 16, 2023

Director of Commerce and Consumer Affairs





STATE OF HAWAII
STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document presents the compliance status of the vendor identified below on the issue date with respect to certificates required from the Hawaii Department of Taxation (DOTAX), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: HUI O HAU'ULA

DBA/Trade Name: HUI O HAU'ULA

Issue Date: 01/20/2023

Status: **Compliant**

Hawaii Tax#: 11017262-01

New Hawaii Tax#:

FEIN/SSN#: XX-XXX6958

UI#: No record

DCCA FILE#: 245107

Status of Compliance for this Vendor on issue date:

Form	Department(s)	Status
A-6	Hawaii Department of Taxation	Compliant
8821	Internal Revenue Service	Compliant
COGS	Hawaii Department of Commerce & Consumer Affairs	Exempt
LIR27	Hawaii Department of Labor & Industrial Relations	Compliant

Status Legend:

Status	Description
Exempt	The entity is exempt from this requirement
Compliant	The entity is compliant with this requirement or the entity is in agreement with agency and actively working towards compliance
Pending	A status determination has not yet been made
Submitted	The entity has applied for the certificate but it is awaiting approval
Not Compliant	The entity is not in compliance with the requirement and should contact the issuing agency for more information

Tax Information Authorization

▶ Go to www.irs.gov/Form8821 for instructions and the latest information.
 ▶ Don't sign this form unless all applicable lines have been completed.
 ▶ Don't use Form 8821 to request copies of your tax returns or to authorize someone to represent you. See instructions.

OMB No. 1545-1165
For IRS Use Only

Received by: _____
 Name _____
 Telephone _____
 Function _____
 Date _____

1 Taxpayer information. Taxpayer must sign and date this form on line 6.

Taxpayer name and address Hul o Hauula PO Box 264 Hauula HI 96717	Taxpayer identification number(s) <p style="text-align: center;">47-1756958</p> Daytime telephone number <p style="text-align: center;">808-255-6944</p> Plan number (if applicable)
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2 Designee(s). If you wish to name more than two designees, attach a list to this form. **Check here if a list of additional designees is attached** ▶

Name and address Check if to be sent copies of notices and communications <input type="checkbox"/>	CAF No. _____ PTIN _____ Telephone No. _____ Fax No. _____ Check if new: Address <input type="checkbox"/> Telephone No. <input type="checkbox"/> Fax No. <input type="checkbox"/>
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Name and address Check if to be sent copies of notices and communications <input type="checkbox"/>	CAF No. _____ PTIN _____ Telephone No. _____ Fax No. _____ Check if new: Address <input type="checkbox"/> Telephone No. <input type="checkbox"/> Fax No. <input type="checkbox"/>
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3 Tax information. Each designee is authorized to inspect and/or receive confidential tax information for the type of tax, forms, periods, and specific matters you list below. See the line 3 instructions.

By checking here, I authorize access to my IRS records via an Intermediate Service Provider.

(a) Type of Tax Information (Income, Employment, Payroll, Excise, Estate, Gift, Civil Penalty, Sec. 4980H Payments, etc.)	(b) Tax Form Number (1040, 941, 720, etc.)	(c) Year(s) or Period(s)	(d) Specific Tax Matters

4 Specific use not recorded on the Centralized Authorization File (CAF). If the tax information authorization is for a specific use not recorded on CAF, check this box. See the instructions. If you check this box, skip line 5 ▶

5 Retention/revocation of prior tax information authorizations. If the line 4 box is checked, skip this line. If the line 4 box isn't checked, the IRS will automatically revoke all prior tax information authorizations on file unless you check the line 5 box and **attach a copy** of the tax information authorization(s) that you want to retain ▶
 To revoke a prior tax information authorization(s) without submitting a new authorization, see the line 5 instructions.

6 Taxpayer signature. If signed by a corporate officer, partner, guardian, partnership representative (or designated individual, if applicable), executor, receiver, administrator, trustee, or individual other than the taxpayer, I certify that I have the legal authority to execute this form with respect to the tax matters and tax periods shown on line 3 above.

▶ **IF NOT COMPLETED, SIGNED, AND DATED, THIS TAX INFORMATION AUTHORIZATION WILL BE RETURNED.**

▶ **DON'T SIGN THIS FORM IF IT IS BLANK OR INCOMPLETE.**

Signature	Date
Dorothy Kelly-Paddock	1-20-23
Print Name	Title (if applicable)



Date: Jan. 20, 2023

RE: Section 42-102 Public Purpose

To: Whom it May Concern

This statement is to confirm on behalf of Hui o Hau'ula 501c3 Non-profit that the application request for a grant is requested to serve a public purpose stated in the grant application.

The public purpose of this grant: Is to complete the Environmental Assessment and Design, Stage 4 Pre-Final Design (Permit Plans) and Stage 5. Permitting Process and Phase 1 Report, Final Design (Construction Docs) and Site work.

The services to be supported by this grant: Is to complete the Koolauloa Community Resilience Hub: Stage 4: Pre-Final Design (Permit Plans) and Stage 5. Permitting Process and Phase 1 Report, and Final Design (Construction Docs).

The target group: Residents living in Koolauloa District of Oahu, City and County of Honolulu

The cost of the grant and budget: \$1,000,000

Sincerely Yours,

Dorothy Kelly-Paddock
Hui o Hauula, Executive Director

**State Grant in Aid Application- Capital
Hui o Hauula, 501c3 non-profit
FY 2023-2024**

II. Background and Summary

Hui o Hauula (HOH) 501c3 Non-Profit was established in 2014. HOH is located in Hauula, a small, rural, remote, coastal community in the Koolauloa District of Oahu.

The HOH Mission is to advance equity, combat climate change and support the health, safety, educational, cultural, environmental, social and economic resilience of Koolauloa residents through supporting civic and social engagement, volunteerism and partnerships to provide equitable services from local, city, state and federal agencies.

Koolauloa District is home for over 20,000 people. Over fifty percent of the residents have low to moderate income. Four out of five District schools are Title I schools. Hauula Elementary is 90% Native Hawaiian or other Pacific Islander and 100% of the children are on the free/reduced lunch program. Koolauloa District is also designated as a "Medically Underserved Area."

Koolauloa's wakeup call was in 2011, the Japan Tohoku earthquake and tsunami prompted HOH to create the Hauula Emergency leadership (HELP) team to prepare and support the community during disasters. The Hauula Emergency Leadership Preparedness (HELP) team raised awareness and received training in emergency preparedness. With support from the University of Hawaii, Department of Urban and Regional Planning, a risk assessment was completed in Hauula.

Given the frequency of flash floods, tsunamis, hurricanes, severe erosion and sea level rise impacting the safety and stability of Kamehameha Highway, and that the District doesn't have a Hurricane Shelter to accommodate the communities, the Neighborhood Board passed a unanimous resolution of support (in 2014 and in 2020) for a community shelter/safe room for Koolauloa. Since there are no safe, resilient public buildings in the District, HOH located a 5-acre property in Hauula owned by DLNR, that has 2-acres of high ground out of the flood and tsunami zones that is 60-90 feet above sea-level.

HOH first applied for funding through a State GIA in 2017 and formed a Koolauloa Community Resilience Hub Planning Team. HOH secured a Right of Entry to the DLNR land to clear invasive species. In 2018 HOH participated in the City OLA Resilience Plan process and authored Action 15 to create a network of resilience Hubs on Oahu. In 2020 HOH hosted two Koolauloa Community and Stakeholder workshops with over 100 attendees who participated in person and virtually. These workshops ensured that the community and stakeholder groups had input in the planning and design of the Resilience Hub for the community.

HOH applied for and was awarded State GIA funds in 2022 to complete a Preliminary Design and Environmental Assessment. Funds were also raised in 2022 from Hawaii

Community Foundation - Strong Funds, and a Change Grant, an Atherton Family Foundation grant and donations from HECO. HOH now needs funding to complete Permit Plans and the Permitting process. These additional funds are needed to get this building to shovel-ready status. An application will also be submitted for a FEMA BRIC grant in 2023 to start the construction work later the same year.

Goals and Objectives:

Goal: 1 To complete the EA and Design process including the Pre-Final Design

Objective 1. Complete the Civil engineering process

Objective 2. Complete the Architectural Plans

Objective 3. Structural Engineering Plans

Objective 4. MEP Engineering Plans

Objective 5. Landscape Architecture

Objective 6. Design and Plans Review

Goal 2: To complete the Permitting Process

Objective 1. Design and Plans Review

Objective 2. Code Compliance

Objective 3. Multiagency Review

Objective 4. Grading, grubbing, stock-piling and trenching permits

Objective 5. Building and Construction permits

Objective 6. Phase 1 Report

Objective 7. Management costs

Goal: 3. Complete the Final Design (Construction Documents)

Objective 1. Civil engineering

Objective 2. Architectural

Objective 3. Structural Engineering

Objective 4. MEP Engineering

Objective 5. Landscape Architecture

Objective 6. Reimbursable Expenses

3.Public Purpose and need to be Served

The GIA funding will enable Hui o Hauula to take the second step to complete the Permitting Plans and Process and the Final Design for the building the Koolauloa Community Resilience Hub, for the North Shore of Oahu.

As natural disasters become more frequent and powerful with climate change, all small, rural, coastal communities must become more prepared. Koolauloa communities have been told by the State and City that when a major disaster happens we will be on our own for 30-60 days. We saw what happened in the aftermath of Hurricane Maria in 2017 in Puerto Rico. Puerto Rico's island population demonstrated the dire need for "Resilience Hubs." Where cell towers survived, or emergency generators were able to function, neighborhoods in Puerto Rico came together to get trusted news, charge

phones, and communicate with loved ones that they were safe. These impromptu Hubs showed that stronger, planned Resilience Hubs should be designed by communities ahead of time and serve as known gathering spots for local residents.

The concept of Resilience Hubs has gained momentum across the nation in the wake of recent disasters, and have the potential to serve as bridges between multiple layers of community, local, state, and federal agencies during disaster response. State and Federal disaster responses are more efficient and effective when they can be assisted and guided by a well-organized local, empowered community. It's also been determined that Resilience Hubs not only serve a key role during and immediately following a disaster, but they also have clear benefits and enhance social resilience ahead of a disaster. Resilience Hubs can provide year-round community services such as a gym, education centers for the public (job training, computer labs) that can also serve as a coordination center in an emergency and training areas to coordinate community-level efforts to increase resilience through social, economic, and health services.

4. Describe the Target Population to be Served

Poverty: Koolauloa is home to approximately 20,000 residents. Of these residents 51% are low to moderate income. This statistic is somewhat skewed by a small population of high income residents in the community. Over 57% are low to moderate income residents.

Education of Children and Youth: All of the Schools in the District, with the exception of one, are Title 1 schools offering students low, reduced and free lunches. All the schools have a high population of Native Hawaiian and other Pacific island students. Hauula Elementary has the highest native Hawaiian population at 90%. Three out of the five elementary schools have a C-D grades over-all and Kahuku High and Intermediate reflects the same level of challenges with a D grade. All schools in the state are ranked by the Honolulu Magazine yearly, based on current state scores in Language Arts, Math, Science. The area of science is consistently the lowest. The Students in Kahuku Complex are considered at-risk in reading, math and science. Strive High Scores for Science are at 31% (percent of students meeting the standard.) Math scores is 34% and Language Arts is 50 %.

Many families living on the rural North Shore in Koolauloa struggle to meet the basic needs of their families. Seventy percent of the working population find jobs outside Koolauloa with an average travel time that is 10% greater than the Hawaii State average and 26 % greater than the National average. Families who drive their cars to Honolulu average over 1 ½ hour of travel time each way. Using public buses for transportation takes about twice the time of driving in a car. Working parents spend an exorbitant amount of time commuting to and from work and often work multiple minimum wage jobs, leaving their children without adult supervision or positive role models during the after-school hours.

Healthcare Disparities: The major healthcare needs of the area residents include asthma, poor dental health, drug abuse, obesity, high teen birth rates, diabetes, stroke, low immunization, low medical utilization rates, inadequate prenatal care, high percentage of mothers with pre-existing medical conditions and the need for community-based support for Seniors. Substance abuse is a continuing concern, with high rates of smoking, binge drinking and teen vaping. The rates are even higher among Native Hawaiians and Pacific Islanders. Many more services need to be provided locally to address these debilitating statistics...with a walk-in clinic/urgent-care program at the new Community Center/Resilience Hub that will be available at low cost and open in the evenings and on weekends.

Senior Services: Lanakila of the Pacific had been providing senior services and congregate meals at the Hauula Community Center for 30-40 years. However, in 2016 this suddenly changed and with a 30-day notice to Koolauloa seniors and their families, Lanakila said that Koolauloa Seniors could still participate by riding a Catholic Charities van to and from their Kaneohe location. However, this trip would have taken seniors 2-3 hours each way and did not prove to be successful. The community tried to keep the program and at first, if they signed a MOU with Lanakila but that plan was dismissed by Lanakila a couple of days prior to closing down.

The Koolauloa community rallied and supported HOH to keep a senior program operating. Oceanside Assisted Living donated a 20-passenger bus and also hot lunches three days a week. Volunteers now provide all the services: exercise classes, art classes, educational speakers, holoholo excursions, free movies at Kahuku Library. Currently there are over 50 seniors enrolled from all the communities in Koolauloa.

According to the recent CDC Data, the Social Vulnerability Index, Hauula is the most vulnerable community on the entire North Shore of Oahu. (see Map in Appendices from CDC)

5. Describe the Geographic Coverage

Koolauloa Community Resilience Hub will serve the vulnerable communities of Koolauloa, an area that stretches for 26 miles along the coast of the North Shore from Kahuku to Kaaawa. This includes five small communities: Kahuku, Laie, Hauula, Punaluu, and Kaaawa that make-up the Koolauloa District

III. Service Summary and Outcomes

1. Scope of work, tasks and responsibilities:

Scope of work and tasks: HOH seeks funding to create the Koolauloa Resilience Hub that will accommodate/provide a variety of critical services and programs to build community resilience and will serve as a resilience hub that will provide a FEMA P 361 Community Shelter for residents and visitors alike when there is an emergency such as

flooding, road closures, hurricanes, and tsunamis. The Resilience Hub will be built to withstand a Category 5 Hurricane, will be located out of the tsunami inundation zone, will provide shelter to 2000 people and will provide power, food, water, medical and communication services during and after disasters. The State and City emergency services agencies have warned Koolauloa residents that they will be on their own in a major emergency event for 30 days or more.

The proposed Community Resilience Hub facilities will be built in Hauula, the center of Koolauloa District, in an easily accessible neighborhood, out of the tsunami inundation zone and flood zone on a 5-acre property (approximately) on the corner of Hanaimoa and Hauula Homestead Road. The TMK map number is 5-4-014:003. The property is owned by state.

Project Tasks:

The Preliminary EA and Design process is being completed by Summer 2023. G70 team made excellent progress and the lead architectural firm +LABS have provided exemplary services in their Preliminary Design work. Hui o Hauula (HOH) non-profit has also benefited greatly from the Energy Sector that will play a major role in the Resilience Hub, given the need to function without power for 30 days or more. HOH applied for a competitive grant, Energy Transitions Initiative Partnership Project Community (ETIPP) that was awarded and is currently providing technical assistance (for 12-18 months) to work with the community to provide in-kind support and resources to achieve our goal to operate the Koolauloa Community Resilience Hub when the power fails, during a major storm or tsunami or even in "Blue skies" whenever the power goes out. ETIPP is working to secure solutions to ensure our communities survive and thrive with the support of clean energy solutions.

However, the following tasks need to be accomplished to begin construction on the Resilience Hub project:

Task 1: The current team of G70 and +LABS will continue to complete the Final Design Process to secure the permit Plans: This includes Civil Engineering, architectural, Structural Engineering, MEP Engineering and Landscape Architecture to complete the Final Designs.

Task 2: This task is to complete the permitting process which includes the (1) Review of Design and Plans, (2) Review of Code Compliance, (3) A Multi-Agency Review, (4) Application for the Grading, grubbing, stockpiling, and trenching permits, (5) Building and Construction permits and (6) A Phase 1 Report.

Task 3: The completion of the final Construction Documents includes: (1) Civil engineering documents, (2) Architectural Documents, (3) Structural Engineering Documents, (4) MEP Engineering Documents, and (5) Landscape Architectural Documents.

This Project will continue to be directed by the Executive Director, Dotty Kelly-Paddock working with the HOH Board, Resilient Design Specialist (Illya Azaroff) and Construction

Specialist (James Oellien) and the Community Advisory Council established to represent the five communities in Koolauloa in overseeing the quality assurance and evaluation of the Project tasks outlined above for the Halau o Koolauloa Community Center and Resilience Hub.

The HOH Executive Director will work with the HOH Fiscal Officer to manage the procurement process and ensure that funds are expended on a timely basis and in compliance with all County and State regulations.

**1. Projected Annual timeline for accomplishing results/ outcomes
(Project Tasks are described in detail in previous section above)**

2. Timeline:

Project Task 1: Year 1- Quarter 1

Project Task 2: Year 1- Quarter 1 & 2

Project Task 3: Year 1- Quarter 3

3. Quality Assurance and Evaluation: to monitor, evaluate, and improve project results.

The HOH Executive Director, HOH Board of Directors, Fiscal Officer, and Community Advisory Council will work together as a Project Management Team (PMT) to ensure the quality of the planning process through:

- (1) Bi-weekly status meetings of the group.
- (2) Monthly Reports by the Executive Director will be shared with the Project Management Team (PMT) and the Community Advisory Council to ensure that the tasks are proceeding in a timely manner and to notify them of any unanticipated delays, and to ensure that the Project falls within budget and the scope approved by the Board of Directors.
- (3) Ongoing oversight and evaluation by the PMT.
- (4) Oversight by the Fiscal Officer to ensure compliance and proper documentation of expenditures and accounting procedures.

4. **List the measures of effectiveness that will be reported to the state agency through which the grant funds are appropriated (the expending agency).**

Effectiveness of this Project will be determined by the completion of the tasks within the Projected timeline and approved budget, as evaluated by the Executive Director and Program Directors.

IV. Financial

1. **Budget: all required Budget forms are attached to this request.**

- a. Budget Request
- b. Personnel Salaries and wages
- c. Equipment and motor vehicles
- d. Capital project details
- e. Government contracts, grants, grant in aid

2. **Quarterly funding requests for fiscal year 2023**

Quarter 1: \$ 437,500

Quarter 2: \$ 437,500

Quarter 3: \$ 437,500

Quarter 4: \$ 437,500

3. **Other sources of Funding:**

The total cost of the project is approximately \$35-45 Million and HOH will aggressively seek funding for the balance from Federal Emergency Management Agency (FEMA) Building Resilience Infrastructure and Communities (BRIC) grant program, USDA Rural Development Programs, Department of Energy Programs

4. **State and Federal tax credits:** HOH has not applied for or been granted any state or federal tax credits.

V. Experience and Capability

1. **Necessary Skills and Experience**

HOH has the skill, ability, knowledge and experience to successfully implement and complete this project successfully. HOH Executive Director has been the recipient of many federal, state, city and foundation grants over the past 30 years. See the list of current grants that have been successfully funded and implemented over the past 10 years enclosed.

HOH Executive Director has an M.A in Education and was on faculty at UH Manoa for 17 years with over 30 years of federal grant writing experience in health and education. See a Resume Attached.

HOH has enlisted the pro-bono support of people that have provided assistance to HOH throughout this Project. Given their excellent qualifications, experience and strong commitment to quality assurance and successful completion of Project tasks, HOH is very fortunate and excited to have their support and involvement:

Illya Azaroff, AIA
+ Lab Architect PLL

Illya is a national and international leader in disaster mitigation, resilience planning strategies and resilient design with more than 25 years experience. He consults with city, state, and federal agencies, professional organizations, not-for-profits, community groups, and foreign governments on building resilient capacity, and collaborates with design teams across the United States and around the world on these issues. He serves on the faculty of the New York College of Technology. Technical advisor to the Federal Government (ASPR) NDFR-National Disaster Recovery Framework, Rockefeller Foundation 100 Resilient Communities and with NYC- Mayors Office of Recovery and Resilience. In 2014 Illya received the AIA National Young Architect Award and serves on the AIA National Strategic Council through 2018. He has extensive work in post-disaster Japan, Haiti, Dominica, Puerto Rico and New York.

In 2018 Dotty Kelly-Paddock wrote to Illya Azaroff asking him to assist in supporting HOH in the design and construction of a model Community Center-Resilience Hub for Koolauloa. Azaroff visited Koolauloa in July 2018 to meet with the Management Team and visited the proposed building site in Hauula. The Management Team walked the 5-acre parcel with Azaroff. Illya Azaroff also visited Maunawila Heiau in Hauula to get a better understanding of Hawaiian culture and attended a reception in his honor at the Hauula Community Center meeting with over fifty representatives from the five Koolauloa communities. Illya Azaroff has told us that "he's in!" and has been providing pro-bono consultation on bi-weekly conference calls and through emails since his visit to Koolauloa. Azaroff is committed to providing support HOH to complete this project successfully.

Azaroff stated that: The imperative of the 21st century is how communities respond to challenges presented by climate change. These challenges present short term disturbances and long-term consequences that we now can project very well. These poignant global issues that we collectively face can be addressed through community driven efforts in adaptation. Models that have been successfully used can provide a roadmap for success in the islands of Hawaii.

Of all the natural disasters, hurricanes are among the deadliest and most costly in the built environment. We need to develop and design hurricane resilient communities and hurricane resistant buildings. We must use new standards for community planning and building design in hurricane-prone areas in our age of global climate change.

James Oellien (Construction Specialist) is an experienced and competent construction expert. Oellien is from the Koolauloa District. See resume attached.

Mona Curry, Emergency Manager for LA City and County, now retired resident of Hauula, HI: See attachment.

Michael Epp, Healthcare Specialist working on Oahu to support Health Care Centers, resident of Hauula, HI, see attachment.

2. Facility

HOH Manages and coordinates services at Hauula Community Center (HCC) located at 54-10 Kukuna Road in Hauula. HCC is a City owned building originally built under Mayor Frank Fasi's initiative to build Satellite City Halls in outlying Districts of the City and County of Honolulu. After the Satellite City Hall was closed in the mid 1990's the building sat empty... falling into disrepair. In 2010 the City Council assisted the Hauula Community Association to access an office in Hauula Community Center. Eight years later, 2018, HOH was provided with a license agreement to manage Hauula Community Center. In 2019 HOH is working with City engineers to plan a much-needed renovation of the facility.

The HOH Executive Director and Program Directors operate Hauula Community Center on a daily basis coordinating and scheduling meeting spaces and providing a variety of ongoing programs at the Center: Koolauloa Kupuna Club activities and meals for 50 seniors from throughout Koolauloa, Hauula Emergency Leadership Preparedness (HELP), Neighborhood Security Watch, Aloha Aina EDventures free Saturday programs for students (3-6th graders) and a Science Resource Center, Hauula Hoolaulea Planning Committee, Hauula community Association Meetings, BreakFEST program for Seniors, Holoholo Excursions for Seniors, Maunawila Heiau Steering Committee and Stewardship Equipment Room, NOAA B-WET grant- afterschool programs (K-6), North Shore Ocean Fest Steering Committee Meetings and supply and storage rooms, a Community Garden Program and TuTu's Treasures thrift shop.

HOH has also reached out to other non-profits and service providers on Oahu to provide a variety of programs and services for residents of

Koolauloa to address community needs. The following State, City and non-profit services are currently being offered at the Hauula Community Center. These agencies and non-profits are partnering with HOH in a "Partnership Hub" at the Hauula Community Center.

Partners using the Hauula Community Center facility in collaboration with HOH include the following: Hawaii Food Bank- Senior Food Box Program, Ohana Food Distribution Program, Koolauloa Hawaiian Civic Club, Koolauloa Neighborhood Board Meetings, WIC services for over 500 families per month, DOE Kahuku Complex New Teacher meetings, Honolulu Community Action Program (HCAP) provides STEM afterschool, summer and intersession programs for 2-8th graders, Project Kuleana Program, Ke Ola Mamo: Native Hawaiian Health Care System, Koolauloa Health Care: Diabetes Prevention Program, AA Substance Abuse Program, Honolulu Aquatics Academy Water Safety Program for 2nd Graders. Children's Theatre of Oahu, Kokua Hawaii Foundation and Sustainable Coastlines.

New partnerships being planned for the new facility, Halau o Koolauloa Community Center and Resilience Hub include: Verizon Cell Tower, Windward Community College- Satellite programs, Veterans Services through the Veterans Administration, Medical Drop-in Services Clinic, Dialysis Services, Bright Beginning Day Care Center/ Preschool Program, Hawaiian Immersion Pre-K program, Homeless Wrap-Around Service Center, Kahuku Library Satellite Center, National Guard Heli-Pad for Emergency Services.

IV. Personnel: Project Organization and Staffing

1. Proposed staffing

For this Project HOH proposes to use State GIA funding to contract with an architect and experts, as needed, to conduct and complete the site analysis and EA (or EIS if required) and Schematic Design for the Project facilities, appurtenances, infrastructure and grounds of the five-acre property.

The Executive Director, with the assistance of HOH Board, HOH Program Directors, Design Specialist, Construction Specialist will work with the Project architect/s and experts to oversee and support the site assessment and design processes.

2. Organizational Chart- See attached

3. Compensation- All Positions at HOH are volunteer- No \$ Compensation

VII. Other

1. Litigation

There is no litigation now or in the past.

2. Licensure or Accreditation- No License or Accreditation

HOH is a 501c3 non-profit as determined by the US Internal Revenue Service, established in October 2014.

3. Private Educational Institutions

HOH is not a private educational institution.

4. Future Sustainability Plan

HOH is currently working in partnership with the University of Hawaii Pacific Business Center (PBC) to complete a business plan for the Koolauloa Community Center and Resilience Hub. HOH has enlisted the PBC to assist with a business plan to ensure long-term sustainability of the Community Center. The University of Hawaii's Pacific Business Center serves small businesses and non-profits throughout the Pacific region, including Hawaii, to assist them in sustaining successful business operations.

Money will follow Mission: HOH also believes that the growth of the organization is based on a clear and passionate awareness of the importance of developing strategies to accomplish the mission: To support the health, safety, educational, cultural, environmental, social and economic resilience of the Koolauloa community through supporting civic and social engagement, volunteerism, fiscal support and partnerships with local, city, state and national agencies/ organizations.

The Hui o Hauula Board, Program Directors and volunteers believe that when donors, community partners, and volunteers understand the organization's mission and see its focus and passion for the mission, the response in providing both financial and volunteer resources will sustain the current work and provide for ongoing growth.

Hui o Hauula began in the Fall of 2014 when a group of concerned community members in Hauula came together with a desire to use a building, owned by the City and County of Honolulu, as a vehicle for the under-resourced community of Hauula. These community members worked in collaboration with the Hauula Community Association and the number of volunteers involved increased rapidly as community members brought need requests to HCA and the HOH non-profit.

Needs included: after-school programs for children and youth, an exercise program for seniors, need for senior meals and services, need for a Senior Food Box Program for community seniors (that led to an affiliation with Hawaii Foodbank 1n 2016) and the list goes on and on. Requests come in the door day after day. A formal community needs survey has never been done, but HCA has a regular monthly, community meetings where community concerns/needs are identified. The original desire to serve the needs

of Hauula, by the HOH non-profit quickly evolved to serving the broader community of Koolauloa.

HOH's success in helping residents with an array of services beyond just afterschool programs for youth has expanded very quickly, including AA services, mental health support groups, health education groups, assistance finding jobs, summer jobs for youth, environmental stewardship, neighborhood security watch programs, emergency preparedness, cultural stewardship, aina-based education for children and youth, food-security programs, exercise programs for youth, music and theatre programs, and on and on.

The new organization had little money and minimal experience. However, they had great passion about their mission and a deep commitment to providing good services. Knowing that they could not provide all the services needed, HOH decided to reach out to enlist the support of other non-profits as partners. They needed more space for all these services so HOH enlisted the support of the City and County of Honolulu to provide HOH with the opportunity to manage the Hauula Community Center building. HOH believed that all that empty space could be filled with community services. The City responded and has provided HOH with a license agreement to manage the Hauula Community Center. As a result, a variety of non-profit programs are provided at the Hauula Community Center. HOH receives new requests weekly from groups and non-profits to expand these services for Koolauloa. HOH has the capacity to serve as many as 100 people at-a time at the Community Center...and provide five different community activities simultaneously.

HOH recognizes that it is imperative to embark on this new initiative to build a larger facility that is located out of the flood and tsunami inundation zones, away from the coast. The current facility, Hauula Community Center, is located right off Kamehameha Highway, less than 100 feet from the ocean, which puts the facility at extreme risk of hurricanes, coastal flooding and in the tsunami inundation zone.

Koolauloa has no Hurricane or Tsunami shelters. Given the current climate changes and predictions of more and more disasters ahead and Koolauloa residents have been warned by state and city emergency management agencies that in a major disaster event, they will not be assisted by the State or City for 30 days or more. Therefore, Koolauloa residents know they must prepare for the worst. The City and State will be overwhelmed with the needs of the large metropolitan area of Honolulu, 800,000 residents and tourists in the city of Honolulu. Therefore, it is critical that Koolauloa residents have a well-designed/built resilience hub to provide critical support services such as food, water, power, shelter for much of the community during an emergency.

Also, this same Community Center/Hub, on a daily basis, will provide services that will help residents become more resilient before and after a disaster by providing residents with access to job training, providing more local jobs, medical services, social services, mental health services, etc. The new Community Resilience Hub will also accommodate the needed service agencies and non-profits as partners to address community needs

and ensure the sustainability of the Hub. The HOH Team uses three specific strategies to seek both current and future resources to sustain the organization: partnership, focus, and passion.

Partnerships: The HOH Team believes that people and communities are incredibly generous and are looking for meaningful ways to invest time and resources. The team seeks broad-based support from donors responsive to our mission. The secret, if there is one, is to be ready to tell the organization's story with clarity and passion in 60 seconds. The stories of children, youth, seniors are compelling and one goal is to communicate these stories to as many audiences as possible. The organization's diverse funding strategies include donations from private individuals, community events (Hauula Hoolaulea and 5K and the North Shore Ocean Fest and Race to Save the Ocean are fund-raising events hosted annually), foundations, corporations, and government. The goal is to seek and invite as many segments of the philanthropic community as possible to invest in the work but not to become dependent on any one or two sources of funding. Donations, whether from individuals or corporations, and grants, whether from private foundations or government agencies, are not entitlements. Donors to HOH recognize that funds received are blessings and that each gift comes with a high level of expectation of responsibility and accountability. HOH strives to exceed donors' and granters' expectations in order to earn their partnership and respect in the form of "repeat investments."

Past funders include: HECO, AARP, Atherton Family Foundation, H.K. Castle Foundation, Turtle Bay Resort Foundation, Friends of Sony Open, Hawaii Community Foundation, Honolulu City and County GIA, NOAA B-WET (Hawaii), Office of Hawaiian Affairs, and Hoopono Koolau Loa Community Foundation.

Focus: The HOH Board and Program Directors believe that individual donors and other funding partners will be moved to invest in HOH and its organizational focus: mission, providing quality services, and achieving excellent outcomes. HOH is fortunate to have an amazing team that is focused on building caring relationships combined with excellent services. The book, "Good to Great", emphasizes the need to get the right people on the bus and in the correct seats. HOH started with all volunteer staffing. Today we have over 100 volunteers, each of whom is committed to the core values of the organization: To perpetuate Ohana, Kuleana and Aloha.

Passion: Everyone connected with HOH is passionate about its mission and about telling the story of the needs of their children, youth, seniors, families, and community and how the services provided make a difference and raise hopes for a better life and a better future for the whole community. Our residents are the greatest assets in telling the story of the needs of families, and they inspire the passion that the program tries to convey in its message to supporters and potential supporters. HOH routinely sees children, youth, seniors grow and transform and families feel that they are a part of a caring community. This is what builds community engagement and resilience. The program's leaders and volunteers agree: "It just does not get any better than that!"

Koolauloa Community Resilience Hub Partners/Stakeholders

Partners committed to provide services on site

Hau'ula Community Association - Dotty Kelly -Paddock- President,
808-255-6944 dotty.kellypaddock@gmail.com

**Honolulu Community Action program (HCAP) - STEM HA Program at Hauula
Community Center**

**Maunawila Heiau- Supply room and meetings onsite: Laura Kaakua, President
and Chief Executive Director -laura.kaakua@hilt.org**

**Ko'olauloa Hawaiian Civic Club, Monthly meetings-Raynae
Fonoimoana: tessie50@gmail.com (president)**

**Hawaii Food Bank: FREE Food Pantry - Onsite: Kim
Bartenstein kim@hawaiifoodbank.org**

**Ke ola Mamo: Native Hawaiian Health Care System: Office onsite DeeDee
Tesina dtesina@keolamamo.org - Executive Director- Charnel Valeho**

**Waimanalo Healthcare Center - provides Women, Infants and Children (WIC) Food
Assistance program onsite - Jennifer Conway jconway@waimanalohealth.org**

**Ko'olauloa Lions Club- Meeting space for Koolauloa lions club- Hillary
White hillysplace@icloud.com**

**Nuture Cultivate, Inc: Ehu Ola for Life (Health & Wellness Program)- Onsite
meeting space- Mahealani Keo- mahealani.keo@ncihawaii.org**

Keiki o Ka Aina- onsite programs- Ann Sullivan ann.sullivan@koka.org

Verizon- KCRH Partnership/Planning a lease for cell tower onsite-

Kathy.Phelps@eukongroup.com

**Pacific Gateway Center- serving clients who have immigrated to Hawaii from
other countries**

Kahuku Medical Center- Partner at KCRH- CEO Alan MacPhee 808-293-9221 amacphee@kmc-hi.org & Jason Hughes, D.O. - Chief Medical Officer - drihdo@gmail.com

Kahuku Public Library: Tamara King- tamara.king@librarieshawaii.org

Asia Pacific International School: Tsunami Evacuation Site (located on high ground) of this school campus. Owner and Director: Dr. Eddie Kim - ekim@apis.org

Cross Island Community Resilience Network:

Includes representatives of 15 community organizations around Oahu that are working to prepare and support their communities before and during a disaster.

Government Partners:

Brenton Awa- Senator

Rep Sean Quinlian - Representative

City Council Representative- Matt Weyer

Luke Meyers, HIEMA

Hiro Toyoia, City DEM

National Disaster Preparedness Training Center- Dr.Karl Kim, UH Manoa

Windward Community College, Chancellor- Ardis Eschenberg ardise@hawaii.edu

Red Cross- Maria lutz

Department of Urban and Regional Planning- Dr.Delores Foley

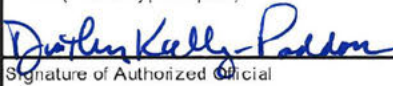
Pacific Business Center- UH Manoa- Dr. Tusi Avegalio

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2023 to June 30, 2024

App

Hui o Hauula

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
A. PERSONNEL COST				
1. Salaries				
2. Payroll Taxes & Assessments				
3. Fringe Benefits				
TOTAL PERSONNEL COST				
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island				
2. Insurance				
3. Lease/Rental of Equipment				
4. Lease/Rental of Space				
5. Staff Training				
6. Supplies				
7. Telecommunication				
8. Utilities				
Contract: Task 1:Final Design-Permit Plan	437,500			
Contract:Task 2:Complete Permit process	875,000			
Contract:Task 3:Complete Final Const Docs	437,500			
12				
13				
14				
15				
16				
17				
18				
19				
20				
TOTAL OTHER CURRENT EXPENSES	1,750,000			
C. EQUIPMENT PURCHASES				
D. MOTOR VEHICLE PURCHASES				
E. CAPITAL				
TOTAL (A+B+C+D+E)	1,750,000			
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested	1,750,000	Dorothy Kelly-Paddock 808-255-6944		
(b) Total Federal Funds Requested		Name (Please type or print) Phone		
(c) Total County Funds Requested		 Jan.20,2023		
(d) Total Private/Other Funds Requested		Signature of Authorized Official Date		
TOTAL BUDGET	1,750,000	Dorothy Kelly-Paddock 808-255-6944		
		Name and Title (Please type or print)		

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2023 to June 30, 2024

Applicant: Hui o Hauula

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:	0			

JUSTIFICATION/COMMENTS:

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:	0			

JUSTIFICATION/COMMENTS:

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2023 to June 30, 2024

Hui o Hauula

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED	OTHER SOURCES OF FUNDS REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2021-2022	FY: 2022-2023	FY: 2023-2024	FY: 2023-2024	FY: 2024-2025	FY: 2025-2026
PLANS			875000			
LAND ACQUISITION						
DESIGN			875000			
CONSTRUCTION						
EQUIPMENT						
TOTAL:			1,750,000			
JUSTIFICATION/COMMENTS Requires Task 1,2,3 contracts with G70 and +LABS work with : civil engineers,architects,structual engineers, MEP engine						

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2023 to June 30, 2024

ers, Landscape architects, multiagency review,application for grubbing, stockpiling,trenching, buiding & construction permits, Phase 1 repc

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2023 to June 30, 2024

ort, completion final docs: civil engineering, architectural, structural engineer docs, MEP engineer docs, and landscape engineer docs.

GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID

App#

Hui O Hauula

Contracts Total:

713,000

	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY (U.S./State/Hawaii/ Honolulu/ Kauai/ Maui County)	CONTRACT VALUE
1	GIA for Emergency preparedness- HCA	2013-2014	Dept Emergency Mgt	CC Honolulu	25,000
2	City GIA "Malama o Koolauloa	2013-2014	City GIA	CCHonolulu	58,000
3	NOAA BWET	2013-2014	NOAA	US	100,000
4	NOAA BWET	2014-2015	NOAA	US	100,000
5	NOAA BWET	2017-2019	NOAA	US	100,000
6	State GIA (pending release)	2022-2023	State	State	330,000
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Hui o Hauula State GIA 2023 Application

List of Exhibits

1. Hui o Hauula (HOH) Org Chart
2. HOH Vision, Mission, Goals
3. HOH Partners
4. Oahu Resilience Plan: Action 15 Resilience Hubs
5. Community Resilience Hub- Koolauloa District Slides
6. Ko`olauloa Resilience Hub 90 % Design Set, + LABS
7. ETIPP Technical Assistance from US Dept of Energy
8. Ko`olauloa Resilience Hub: FEMA BWET Grant-SOW application for construction to be submitted 1/27/23
9. Resumes- Ko`olauloa Community Resilience Hub Planning Team

Hui o Hauula- Organizational Chart

Board of Directors
President- Dotty Kelly-Paddock
VP/Secretary: Linda Avegalio
Fiscal Mgr.- Raynae Fonoimoana
Board Member: Ken Furukawa
Ella Siroskey

Civic & Social Engagement
Program Director-Linda Avegalio

1. Hoolaulea
2. 5K Fun Run
3. BreakFEST
4. Candidates Forum
5. Holoholo/s
6. Community Service Volunteers
7. TuTu's Treasures & Garage Sale

Special Development Project/s
Program Directors-Dotty Kelly-Paddock

1. Halau o Koolauloa
Community Center
& Resilience Hub

Program Director- Ken Furakawa

2. School/Community Garden

Community Resilience
Program Director - Ella Siroskey

- HELP
- CERT
- NSW
- Block Captains
- Ulu Project
- Medical Services Team

Environmental & Cultural Management
Program Director-Kihei NaHale-a

- Project Kuleana
- Maunawila Heiau
- Aloha Aina EDventures
- Beach Clean-ups
- Oahu Children's Theatre
- Science Resource Center
- North Shore Ocean Fest
- Race to Save the Ocean- 5K

Health, Safety and Education
Program Director- Jan Keitzer

- Koolauloa Kupuna Club
- Substance Abuse Treatment-AA
- Yoga Class
- Keiki o Ka Aina
- Senior Food Boxes (CSPD)
- Ohana Food Distribution
- School Food Pantries- KHIS
- Hauula Keiki Food Pantry
- WIC
- HCAP Services
- Honolulu Aquatics Academy
- Ke Ola Mamo: NH Health Care
- Tai Chi Class

Hui O Hau`ula: Vision/Mission/Goals 2020-2025

Vision: To perpetuate Ola, Ohana, Kuleana and Aloha.

Mission: To support equitable services to build community resilience through health, safety/security, education, culture, environment, social and economic of Ko`olauloa communities through supporting civic and social engagement, volunteerism, fiscal support and partnerships with local, city, state and national agencies/organizations.

Goals/Initiatives:

1. Civic and Social Engagement

- a. Ho`olaulea: Annual Community Festival
- b. 1-5K Run/Walk: Held in collaboration with DPR and DOE Schools in Ko`olauloa
- c. HCA Monthly meeting: First Tuesday every month 6:30 PM (now virtual)
- d. BreakFEST: Monthly senior breakfast with entertainment or educational speaker/s
- e. Candidate Talk Story: Candidate Forums/prior to elections
- f. Community Service Volunteers: for Food distribution, Environmental Stewardship Teams for Maunawila Heiau and the Ko`olauloa Resilience Hub Agroforestry Project
- g. Holoholo/Excursions: To visit people, places and things for the enhancement of our people and communities

2. Safety and Security

- a. HELP (Hauula Emergency Leadership Preparedness) Team: Emergencies & Climate Change Mitigation Activities
- b. Neighborhood Security Watch: Sign-Waving, Checking Community Hotspots, Next Door Network, Complete Streets that promote safety in our Communities.

3. Health and Wellness

- a. WIC collaboration with state services for women and children on the Northshore
- b. Ko`olauloa Kupuna Club (exercise programs & art program, social engagement, educational speakers) + HCAP Kupuna Program support
- c. **Keo La Mamo**: Native Hawaiian Healthcare System services/outreach
- d. Substance Abuse Program/s- **AA program**
- e. Health Education Training in collaboration with Miriam Chang MD and the Ulu Network
- f. Senior Food Box Distribution in Ko`olauloa in collaboration with **Hawaii Food Bank**
- g. Community Resource Navigator Services: Medical and Behavioral Health, Housing, Childcare, Food Security, Financial Literacy and Career and Job Training
- h. Ohana Food Distribution Program: 1st Monday every month
- i. Food Security – Ulu/Breadfruit Project & Building Food Security through KCRH agroforest
- k. Hau`ula Community Center- Free Food Pantry (Monday through Thursday 9AM -2 PM)
- l. Hau`ula Community Center- Certified Kitchen Upgrades to enable local food prep

4. Economic/Educational Programs/Support Services

- a. Laulima Ola Health/ Wellness and Social Services Center
- b. HCAP: Na Lima Hana Employment Core Services Program
- c. TuTu's Treasures: Thrift shop: Household goods, clothes, jewelry, furnishings

5. Ahupua'a Hui (Community-Based Environmental & Cultural Resource Management)
 - a. **Kuleana Project:** Music and Technology program for students
 - b. **Maunawila Heiau:** Cultural Stewardship and Tours (Saturdays), Summer Youth Development Program
 - c. **North Shore Ocean Fest:** Annual Ocean Education Event & 5K Race to Save the Ocean
 - d. Aloha Aina EDventures: Environmental Education & Stewardship Activities (youth education/development program)
 - e. Beach Cleanups by community members/youth
 - f. **Ha Initiative: Creative STEM After-School Program** for 2nd-8th grade students, provided in collaboration with **Honolulu Community Action Program**

6. **Ko'olauloa Community Resilience Hub-** OLA Resilience Strategy **Action # 15** was created by HOH in collaboration with Honolulu City & County Office of Climate Change Resilience and Sustainability

HOH worked with BLNR to acquire Right of Entry (ROE) to a five-acre Hau`ula property for the construction of the Ko'olauloa Community Resilience Hub (KCRH) for the health and safety of residents and to remove invasive species and create an Agroforest of food trees, plants for food security.

A FEMA BRIC (Building Resilience Infrastructure and Communities) Grant Application was submitted in December 2020. HOH was not funded because of Honolulu City and County being out of compliance with FEMA code requirements. The City of Honolulu has made code improvements needed and HOH plans to reapply in December 2022. HOH has contracted with G70 in Honolulu to assist in the Environmental Design and with +LABS for the Preliminary Design. The property is located in Hau`ula, at the corner of Hau`ula Homestead Road and Hanaimoa Street. Community Stewardship is supporting this ongoing clean-up effort.

Partners with KCRH: Verizon, Kahuku Medical Center, Windward Community College, Keiki o Ka Aina Learning Center: Birth to 3 services, Aha Punana Leo Preschool: Hawaiian Immersion Preschool, Bright Beginnings Preschool, Pacific Gateway Center and many of our partners located at Hau`ula Community Center, originally constructed by Mayor Fasi as a Satellite City Hall. This facility is in the flood and tsunami zones on 54-010 Kukuna Rd. in Hau`ula.

Contact info:

Hui o Hau`ula, 501c3 Nonprofit (2016)
PO Box 264 (mailing address)
54-010 Kukuna Rd.
Hau`ula HI 96717

Dotty Kelly-Paddock
Executive Director
808-255-6944
dotty.kellypaddock@gmail.com

Hui o Hau`ula has a License Agreement with City and County of Honolulu, Dept. of Land Management Managing Hau`ula Community Center, 54-010 Kukuna Road, Hauula, Hawaii 96717 See our Website: Huiohauula.org

HOH is working in collaboration with Hau`ula Community Association, HauulaCommunityAssociation.com
[Hauula Community Association Facebook Page](#)



Hui o Hau'ula- 501c3: Partners/Programs
Located at the Hau'ula Community Center
54-010 Kukuna Road, Hau'ula, Hawaii 96717

1. Hau'ula Community Association (HCA) Monthly meeting 1st Tuesday @6:30PM
2. **Ko'olaulo'a Neighborhood Board, Monthly meeting 2nd Thursday @ 6PM**
3. **Ko'olaulo'a Hawaiian Civic Club, Monthly meeting 3rd Thursday at 7PM**
4. Hau'ula Emergency Leadership Preparedness (HELP) Monthly, 4th Tuesday @6pm
5. Project Kuleana: Kaulana Na Pu'a, Tuesdays and Thursdays (on hold)
6. The Discussion: AA Meeting, Mondays 7:30-8:30PM (meetings now virtual only)
7. Neighborhood Security Watch Meeting (currently no meeting)
8. **Honolulu Community Action program (HCAP) Monday -Friday 12-6PM: STEM HA**
9. **Maunawila Heiau- Supply Room and Monthly meeting 1st Wednesdays 5:30-7:30 PM**
10. Ko'olaulo'a Kupuna Club (Seniors 60+) M-W-F, 9AM- 12PM
11. Community Emergency Response Team (CERT) meetings 8A-4P Saturdays, TBD
12. **Senior Food Box Program: 3rd Tuesday- monthly distribution from Hawaii Food Bank**
13. **O'HANA Food Distribution: 1st Monday monthly at Hau'ula Beach Park Pavillion (HFB)**
14. **FREE Food Pantry- Hawaii Food Bank- Tuesdays and Thursdays 9AM-4 PM**
15. BreakFEST- 2nd Friday monthly (catered BreakFEST with live music or speakers)
16. North Shore Ocean Fest: Steering Committee Meetings for planning annual event
17. Aloha Aina EDventures: (Funded by Ocean Fest) provides FREE Saturday EDventures for students 3-8th grade, Ko'olaulo'a and the North Shore keiki attend FREE.
18. **Ke ola Mamo: Native Hawaiian Health Care System- Office**
19. Hawaii Health Harm Reduction Center: Services in Ko'olaulo'a (on-call)
20. Ko'olaulo'a HAM Radio Network - as scheduled
21. Hau'ula Ho'olaule'a: Planning meetings for annual event
22. Hau'ula Family Fun Run/Walk: Planning Meetings
23. **Women, Infants and Children (WIC) Food Assistance program: Thursdays 9A-2P**
24. Certified Kitchen Partners: Sunset Bowls, Cafe Melia, Elgin Ona Pizzas
25. **Ko'olaulo'a Lions Club**
26. **Laulima o Ko'olaulo'a**
27. Hawaii Energy/ Energy Hui- Reducing Energy Burden in Ko'olaulo'a
28. **Nuture Cultivate, Inc: Ehu Ola for Life (Health & Wellness Program)**
29. Kahuku Medical Center- KCRH partner
30. **Windward Community College (financial literacy/Career Education courses) in 2022**
31. **Keiki o Ka Aina- onsite programs**
32. **ULU Network-Partnership- onsite programs**

33. Kupuna Collective-Partnership
34. University of Hawaii, Manoa- Pacific Business Center
35. University of Hawaii, Manoa -School of Social Work
36. James Campbell Wildlife Refuge
37. AARP: Livable Communities- Funder to build a walking trail at Resilience Park
38. Blue Zones- Partnership
39. Hawaii Energy- Partnership
40. Cross Island Community Network (CICRN)- Partnership
41. Verizon- KCRH Partnership
- 42. Pacific Gateway Center**



Oia

O'AHU
RESILIENCE
STRATEGY



City Resilience Framework

The City Resilience Framework (CRF), developed by Arup and The Rockefeller Foundation, identifies 12 drivers of resilient cities across the areas of health and wellbeing, economy and society, infrastructure and environment, and leadership and strategy. We used this tool to assess current initiatives and understand various city

systems' ability to cope with shocks and stresses. Additionally, engagement and survey materials were designed to gather resilience perceptions relative to the CRF and were consistent across the broad and diverse individuals and organizations who contributed to the development of the strategy. The tool enabled us to broaden resilience thinking on O'ahu beyond disaster preparedness and recovery and ensure that the initiatives identified will make the best ongoing contribution to building the island's resilience.

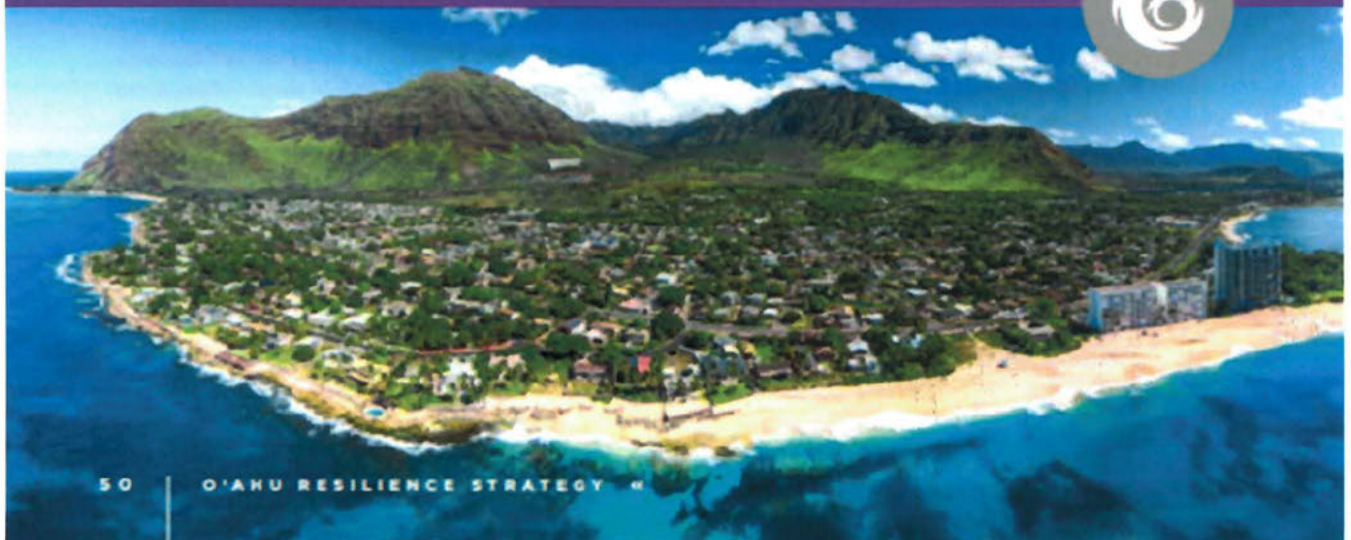


Photos by
(clockwise from top right)
Philp Rasca, Department of
Parks & Recreation, Resilience
Office, Resilience Office

Bouncing Forward

Fostering Resilience in the Face of Natural Disasters

- ▶ **O'ahu faces incredibly unique challenges** when it comes to natural disasters. Take into consideration that we are one of the most isolated places on Earth. In the event of a natural disaster, disruptions to air or shipping lines could lead to significant delays in emergency response and the delivery of food (up to 90 percent of which is imported), medicine, and other critical supplies. Honolulu's island infrastructure is also extremely vulnerable, with many roadways, bridges and facilities located in coastal and flood-prone areas. What's more, many of O'ahu's communities are linked by a single roadway—and a flood or storm could sever roadways and completely cut off communities.



Resilience

Co-Benefits +

Though Resilience Hubs will serve critical roles during and immediately following an emergency, these community assets also have clear benefits and enhance social resilience ahead of a disaster. Resilience Hubs can provide year-round community services (such as a gym), focal points for neighborhood revitalization (housing tools and job training), education centers for the public (computer labs that can provide a coordination center in an emergency), and training areas to coordinate community level efforts to increase resilience.

Lead & Implementing Partner(s)

Department of Emergency Management, Resilience Office, DLM, DPP, DPR, HESD, HFP, HPD, LHA Ventures, Hau'ula Emergency Leadership Preparedness (HELP), American Red Cross Hawai'i, State DOH, State DOE, Hawaiian Electric, Hawai'i Community Foundation, Neighborhood Boards, Cross-Island Community Resilience Network, NDTPC, East-West Center

Timeframe



Aloha+ Challenge



SMART SUSTAINABLE
COMMUNITIES

UN SDG



SUSTAINABLE CITIES
AND COMMUNITIES



INDUSTRY, INNOVATION
AND ARCHITECTURE

Performance Metrics

- Completed Resilience Hub Assessment
- Number of Local Communities Working Toward Establishing a Hub



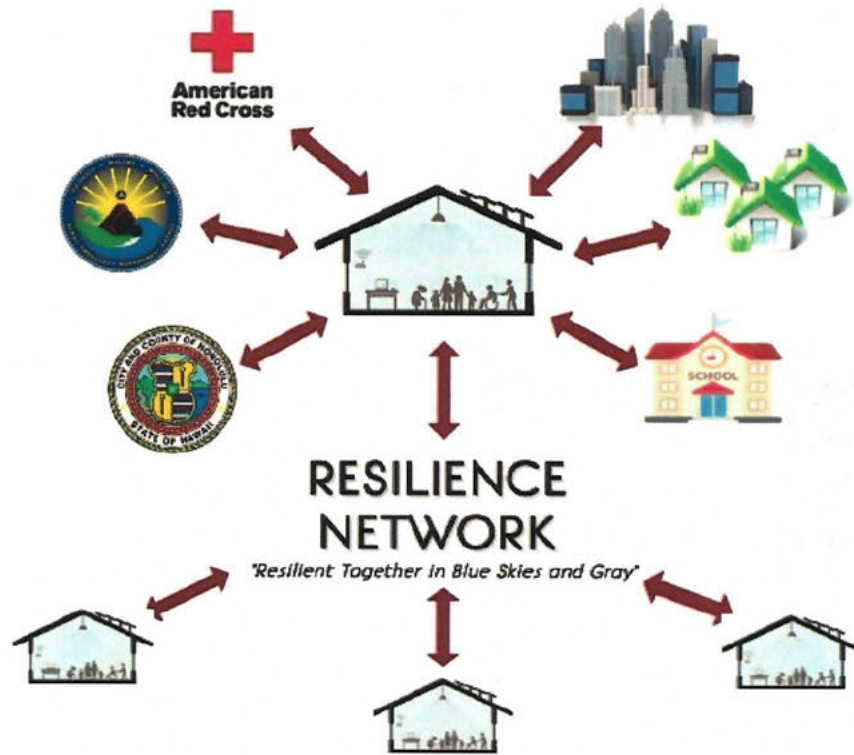
SPOTLIGHT

Hau'ula Emergency Leadership Preparedness (HELP)

The **HELP Committee** has drafted a plan for the future Hau'ula Resilience Hub for Hau'ula and Ko'olauloa communities at the Halau o Ko'olauloa Community Center. The center will incorporate seven key strategies for resilience in small rural coastal communities (SRRCCs): **1) Water Security:** Availability of drinking water and potable water **2) Food Security:** Availability of traditional healthy foods grown locally **3) Energy/Electricity:** Availability of electricity (mini-grid/ TCOM) for most critical services **4) Health Security:** Emergency Medical Services/ Critical Care Services **5) Emergency Shelter from Hurricanes, Tsunami, Flooding:** Plan & Build Shelter/Community Center **6) Security/Safety:** Develop a plan with to keep community residents safe/secure **7) Connector Roads:** Safe roads that connect community members to shelter and evacuation sites. Once implemented, the Hau'ula Resilience Hub is intended to serve as a model for other to be completed hubs in SRRCCs.



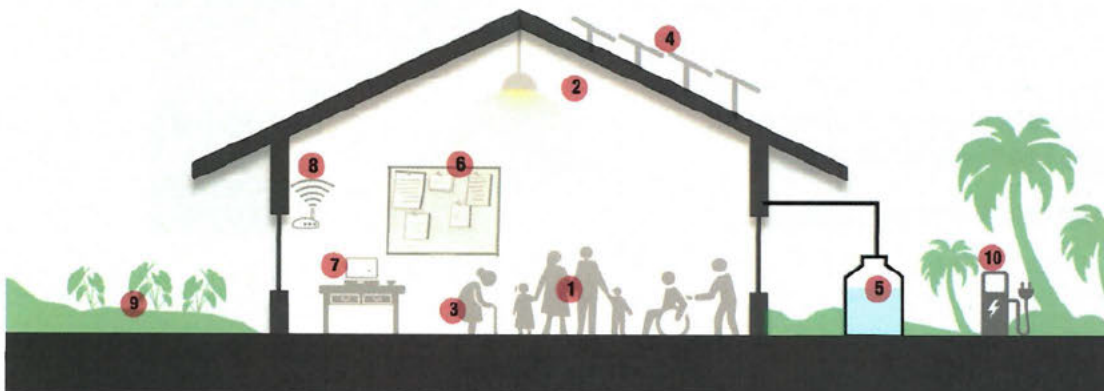
Community Resilience HUBS



Resilience Hubs are community-led, community-run facilities that provide critical support services before, during, or after an emergency event or natural disaster. They are primarily run by community members but are supported by local government agencies and non-profit organizations.

Also, an important note: HUBS are much more than shelters. In fact, that's a common misunderstanding. Hubs are a supplement to the designated HI-EMA shelter system and are more of a command center for the community to coordinate aid, communications, and community planning.

COMMUNITY RESILIENCE HUB A SHARED RESPONSIBILITY FOR OUR COMMUNITY'S RESILIENCE



FUNCTIONS

- 1 COMMUNITY PROGRAM
- 2 VISIBLE AND ACCESSIBLE SPACE
- 3 EMERGENCY FIRST AID
- 4 SUSTAINABLE ENERGY SOURCE
- 5 ACCESS TO WATER AND ESSENTIAL NEEDS
- 6 HAZARD MITIGATION AND EMERGENCY PLANNING
- 7 OPERATIONAL CENTER FOR HAZARD MITIGATION AND EMERGENCY RESPONSE
- 8 RELIABLE COMMUNICATION
- 9 COMMUNITY GARDEN
- 10 CHARGING STATION

A black and white photograph of a coastal landscape. In the foreground, there is a sandy beach with some sparse vegetation. The ocean is visible in the middle ground, with waves breaking. In the background, there are forested hills or mountains. The overall scene is serene and natural.

Community Resilience Hub

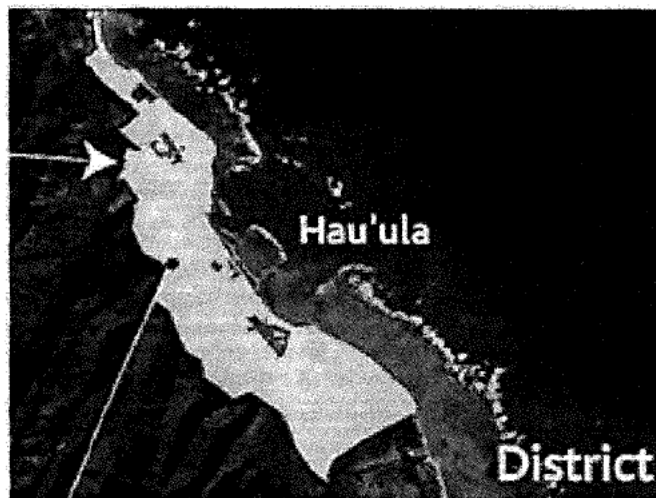
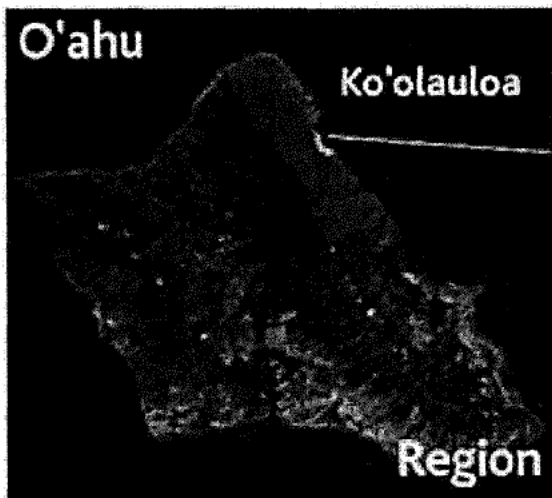
Ko`olauloa District

Hau`ula

Oahu's Rural and Remote North Shore

Why is a Community Resilience Hub needed in Hau`ula?

- **No Infrastructure for Hurricane Shelters is available in Ko`olauloa**
- **Highest Social Vulnerability: Socioeconomic, Household Characteristics Housing and Transportation (CDC-SVI)**
- **Hau`ula is at high risk for flash floods, hurricanes and tsunamis**
- **85% of the homes in Hau`ula will be destroyed in a Category 1**
- **Most homes & public infrastructure are in Flood and Tsunami zones**
- **Kamehameha Highway only road in and out will be closed- failure/debris**
- **Emergency Agencies warned residents may be on their own for 30+**
- **HECO projects that Ko`olauloa may be without power for 30 days+**



Ko'olauloa Resilience Hub Project

Hau'ula, Ko'olauloa, O'ahu
Site Photo Documentation

Site:
5-4-256 Hau'ula - Homestead Road

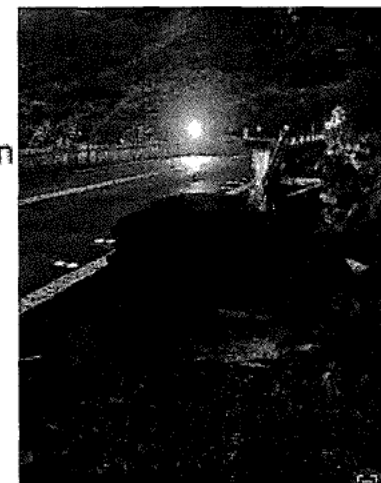
Date and Time of Visit:
July 14, 2022/10:00AM - 12:00PM

Attendees:

SHADE Institute
Dean Sakamoto
Cuong Tran
Ben Criele
Nicole Norwala

G20:
Ryan Chai
Cody Winchester
Remy Fung

Hau'ula Community Center
Dotty Kelly-Paddock

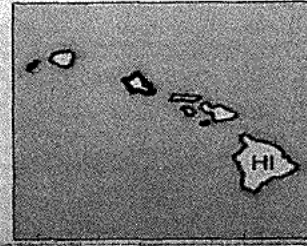
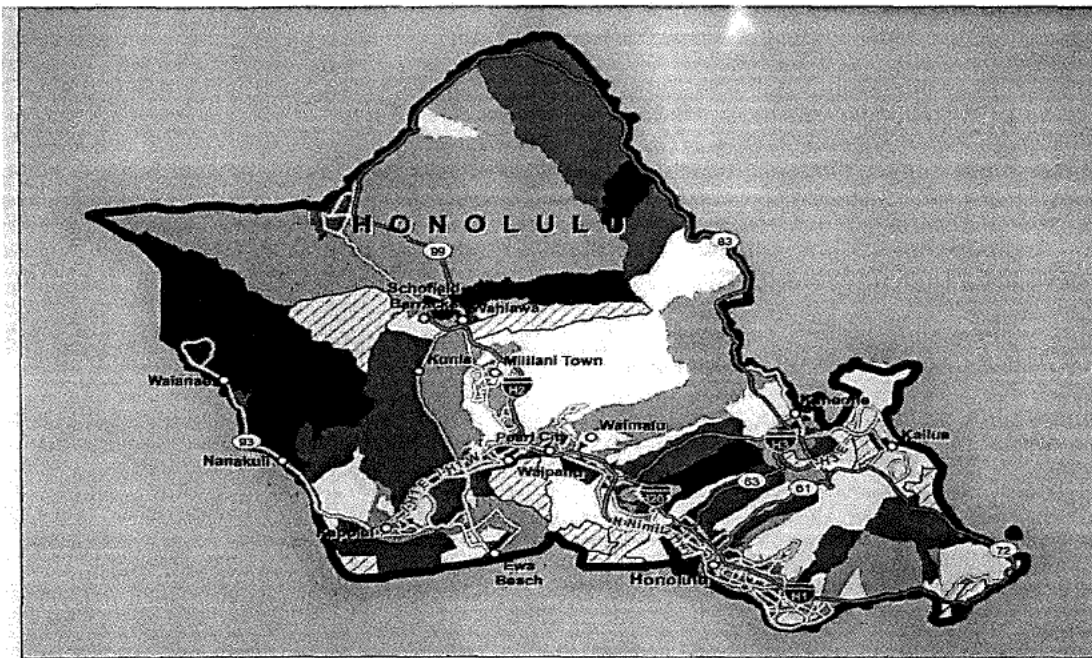


Kahana Bridge July 16, 2022

26,000 Residents
Single road
fragile
and
vulnerable



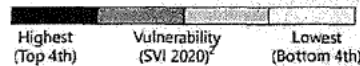
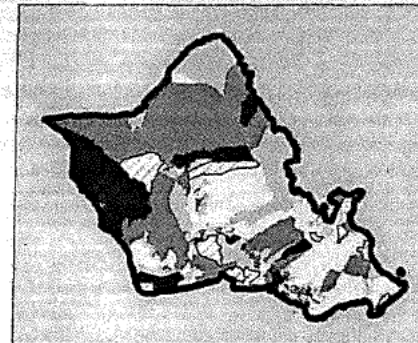
CDC /ATSDR Social Vulnerability Index 2020- Sixteen Census-Derived Factor- 4 Themes



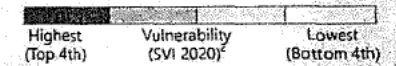
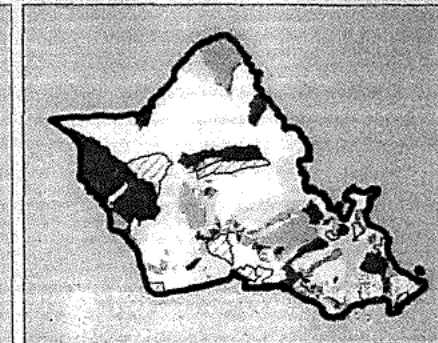
Social vulnerability refers to a community's capacity to prepare for and respond to the stress of hazardous events ranging from natural disasters, such as tornadoes or disease outbreaks, to human-caused threats, such as toxic chemical spills. The **CDC/ATSDR Social Vulnerability Index (SVI 2020)**⁴ County Map depicts the social vulnerability of communities, at census tract level, within a specified county. CDC/ATSDR SVI 2020 groups **sixteen census-derived factors** into **four themes** that summarize the extent to which the area is socially vulnerable to disaster. The factors include economic data as well as data regarding education, family characteristics, housing, language ability, ethnicity, and vehicle access. Overall **Social Vulnerability** combines all the variables to provide a comprehensive assessment.

CDC/ATSDR SVI Themes

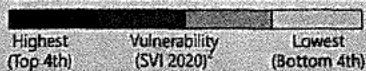
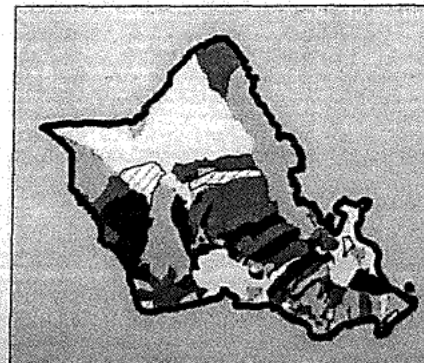
Socioeconomic Status⁵



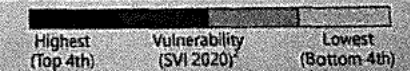
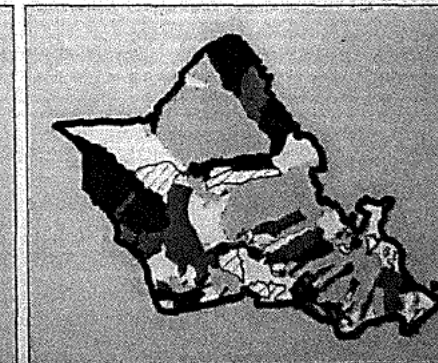
Household Characteristics⁶

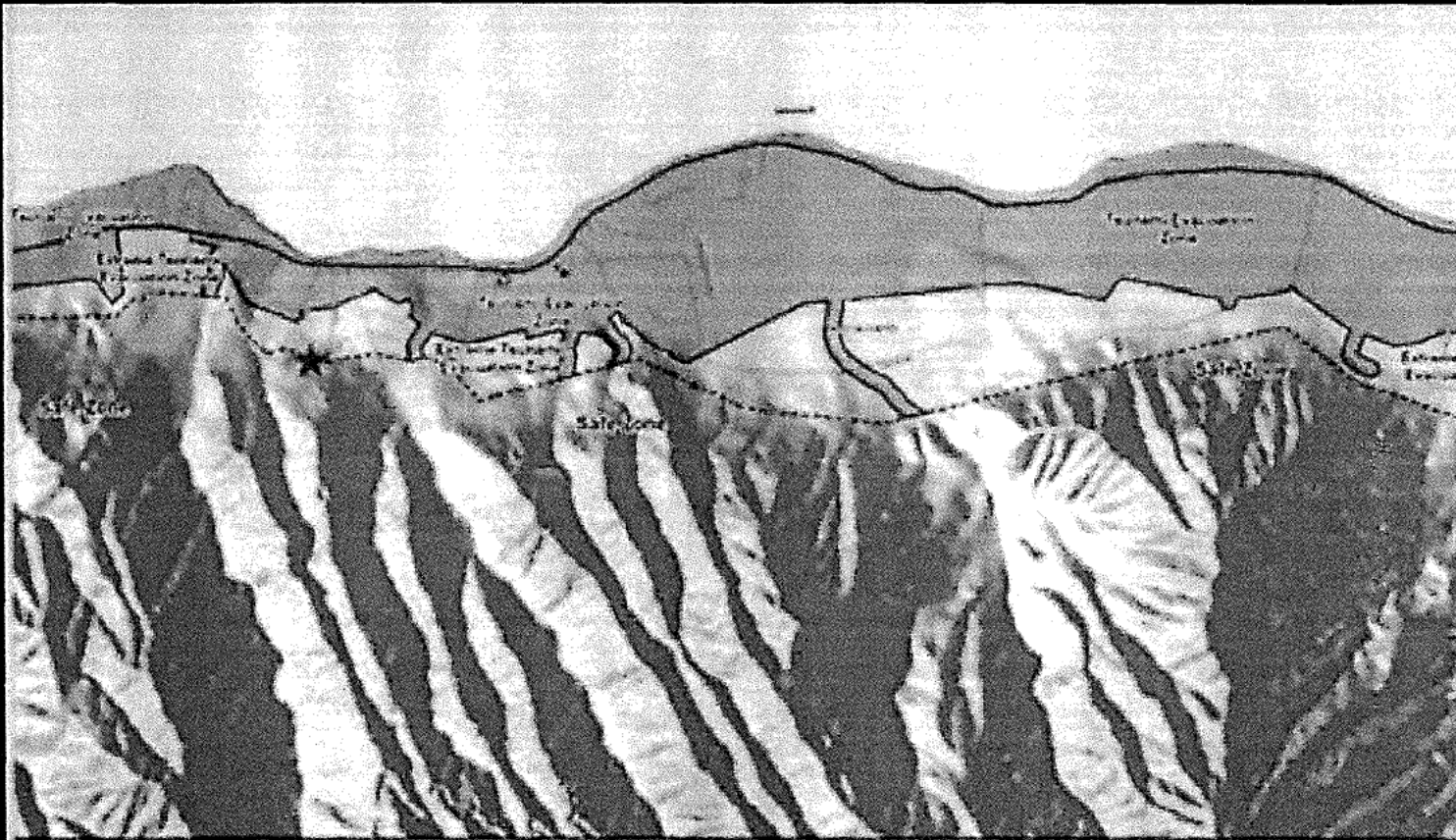


Racial and Ethnic Minority Status⁷



Housing Type/Transportation⁸





Tsunami
Evacuation Zone –
Based on Historical
Tsunami Events
impacting Hawaii –
1946, 1957, 1960.

Extreme Tsunami
Evacuation Zone –
Based on Extreme
Event (“Great
Earthquake and
Tsunami Event”-
e.g., Indonesia
2005, Japan 2011)

Waikaloa Bay to Hanalei
Map 1 of 2



U.S. GEOLOGICAL SURVEY
HAWAIIAN DISTRICT OFFICE
1555 PALI DRIVE
HONOLULU, HAWAII 96813



THIS MAP WAS CREATED USING DATA FROM THE U.S. GEOLOGICAL SURVEY'S HAWAIIAN DISTRICT OFFICE. THE DATA IS PROVIDED AS-IS AND IS NOT WARRANTED BY THE U.S. GEOLOGICAL SURVEY.

THE U.S. GEOLOGICAL SURVEY IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY APPEAR IN THIS MAP.

FOR MORE INFORMATION, CONTACT THE U.S. GEOLOGICAL SURVEY'S HAWAIIAN DISTRICT OFFICE AT (808) 953-5000.

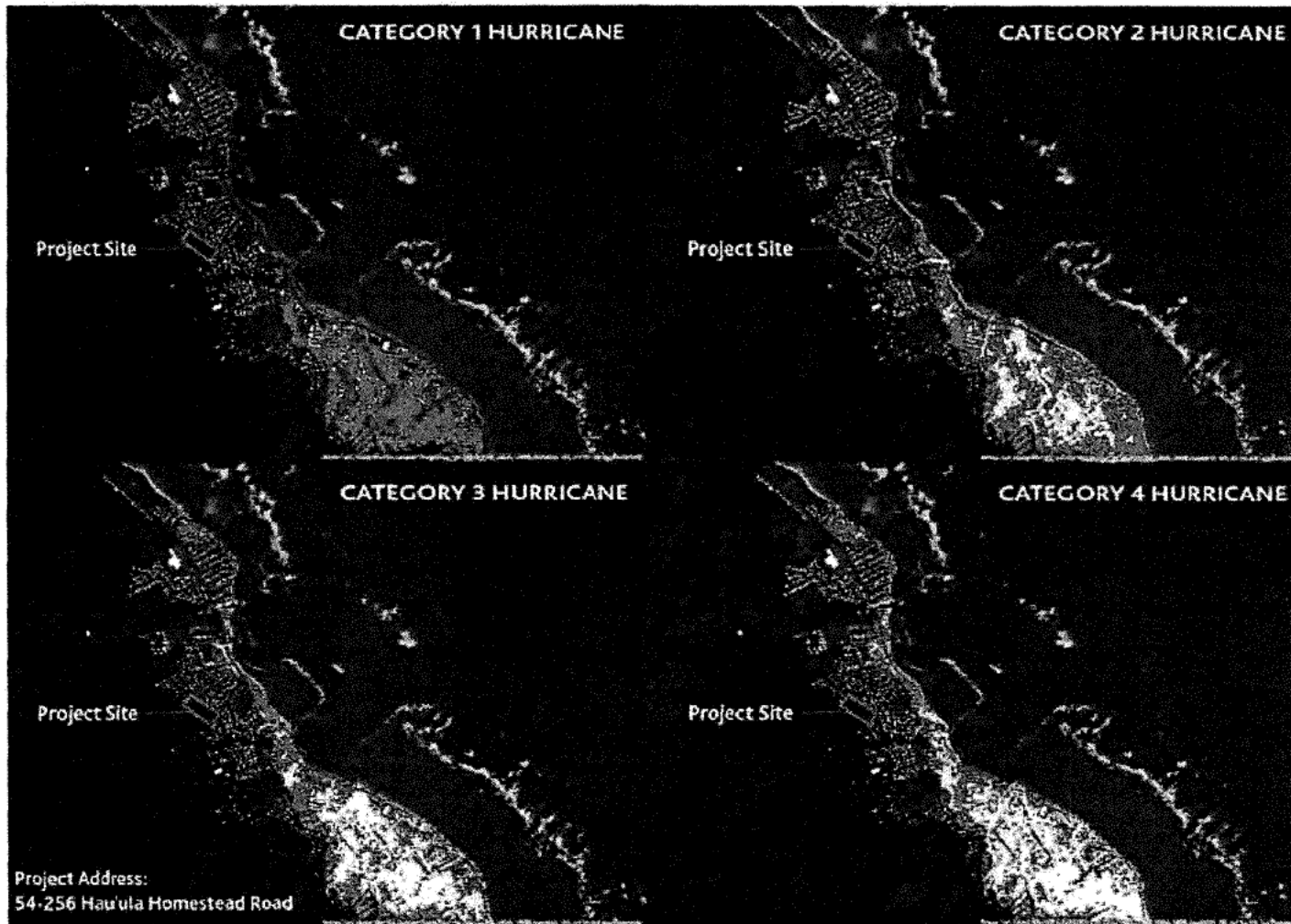


Legend

- City Name
- Road
- Cliff
- Field
- Unlabeled Area

- Safe Zone
- Extreme Evacuation Zone
- Historical Evacuation Zone
- Water
- Shoreline
- Contour

+ lab **SHADE**



Tidal flooding

Beach erosion

**Forced displacement
underway**

**Hurricane flooding and
surge.**

Vulnerable population

Vulnerable infrastructure



+

lab SHADE

Flash Floods Now Yearly Events!

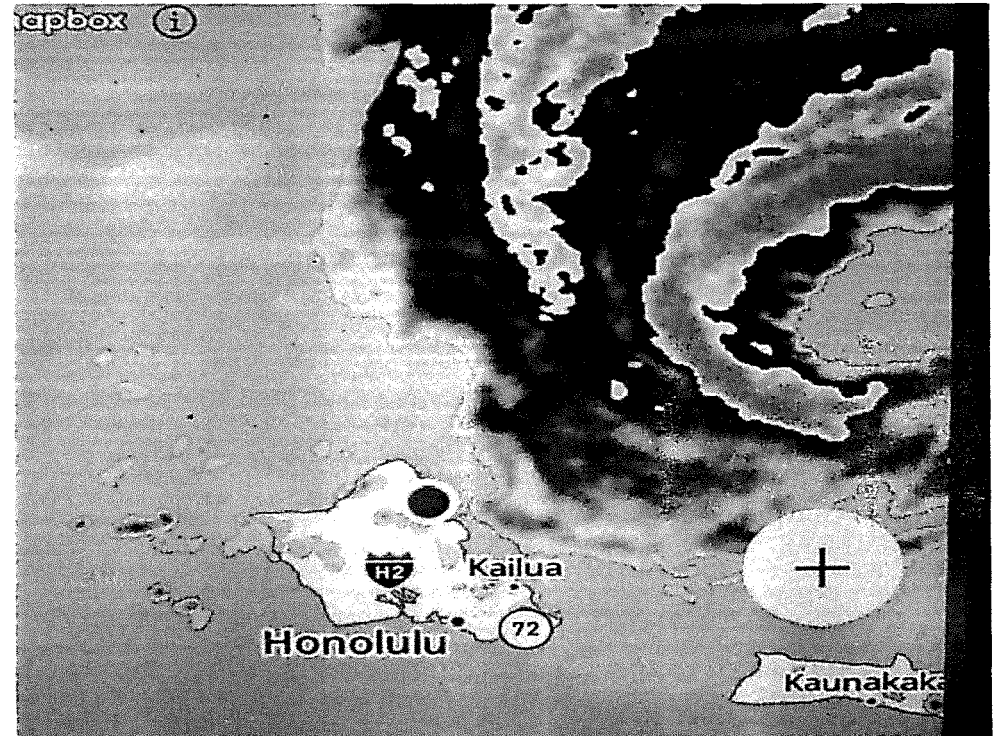
Flash Flooding March 2021



March 7, 2021 Flash Flooding in Hau'ula damaged 75-100 homes: Hau'ula has eight Streams that flooded many people had to evacuate and it took months to cleanup and refurbish homes.

Hurricane Douglas 2020 –Near Miss!

Hurricane Douglas was a very close call in 2020



July 26, 2020 Hurricane Douglas was a Category 1 Hurricane forecasted to hit the Eastern Coast of Oahu, Hawaii. Residents scurried to get food, water, fill sandbags and board up their homes to prepare for what seemed the inevitable! Douglas turned North at the last minute and didn't make landfall!

Community Engaged: Planning in 2020 and EA & Design in 2022-2023

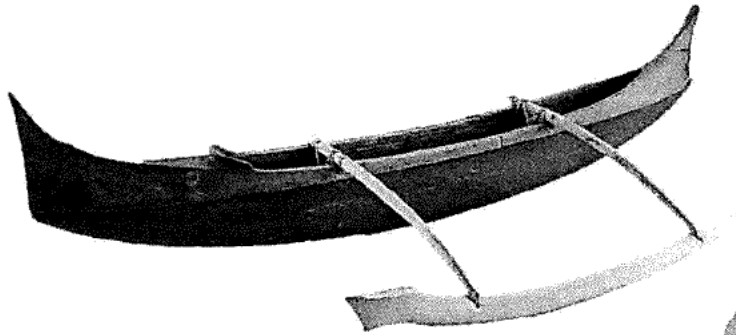


In November 2020 Community and Stakeholder workshops were held to inform community members about disasters and the community met in small groups to provide input on the types of lifelines/ services needed at the Community Resilience Hub during in disasters and emergencies. In “Blue Skies” the Resilience Hub will serve to replace the current Hau’ula Community Center, located in the Flood and Tsunami Zones. Services needed in Blue Skies were also detailed, based on vulnerabilities: social, economic, health and educational services.



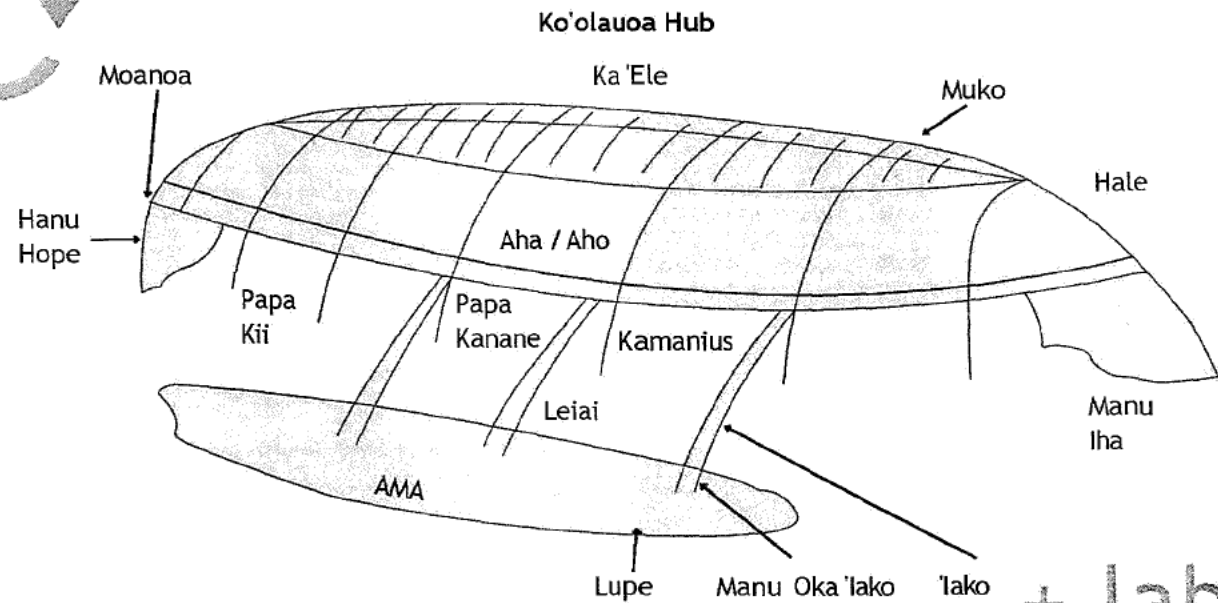
In the Summer of 2022 + Labs Architects worked with groups from the community to determine the design of the the Resilience Hub and how to ensure that the Resilience Hub reflects and honors the Native Hawaiian cultural and supports cultural regeneration activities desired by this Native Hawaiian community. The G70 Group, managing the Environmental Assessment and Design process of the Resilience Hub is providing an update to the community on the EAD process, answering questions and getting community input.

Wa'a Concept Diagram

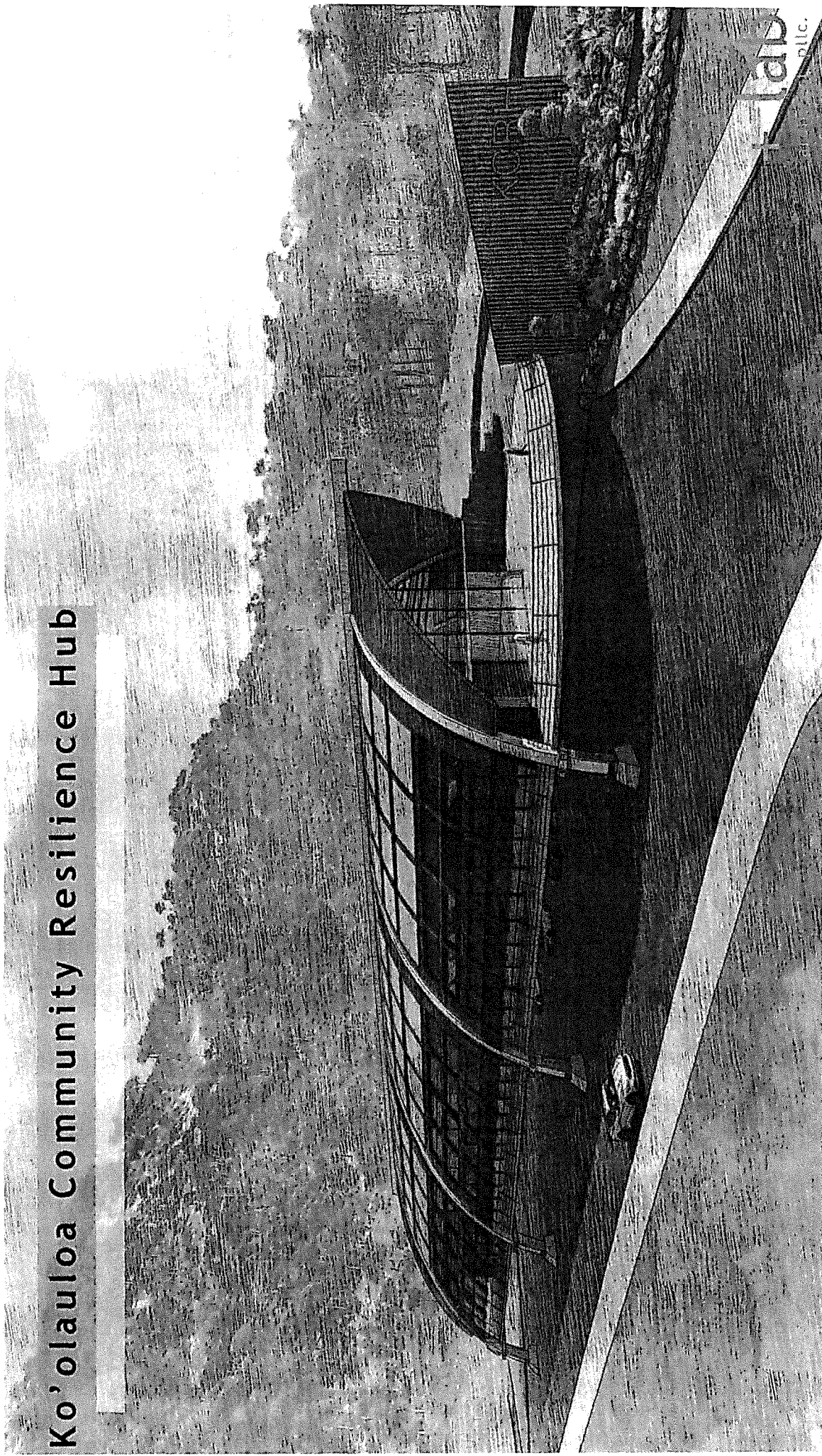


"Huli"
Flip over the canoe
to stay safe

"When you see the storm you Flounder
the boat so it stays put" - Dr. Tusi ...



Ko'olaupua Community Resilience Hub

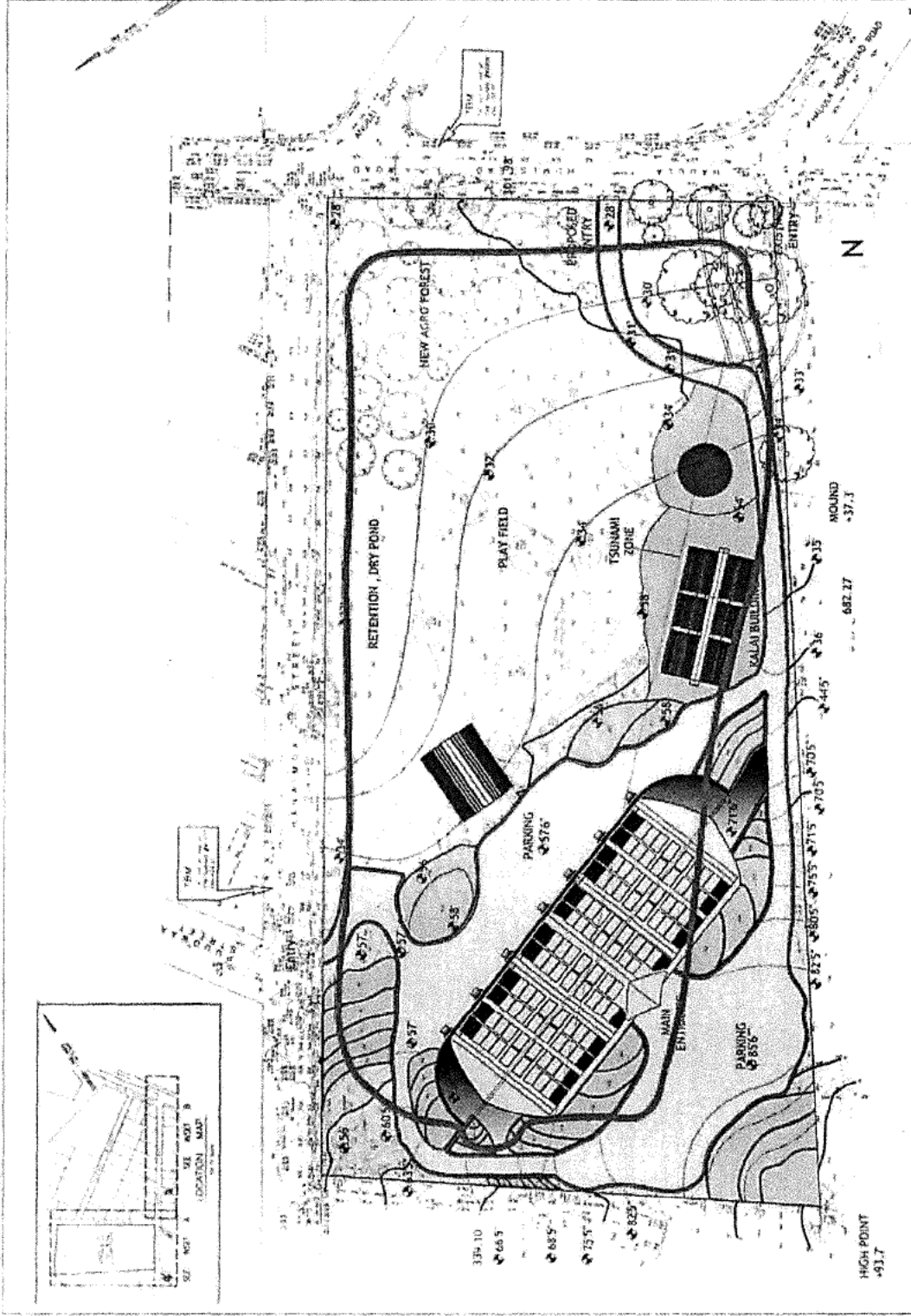


Lab

PLLC

KCRH

We'a EA - Site Plan



EA SITE PLAN

Ko'olauloa Community Resilience Hub

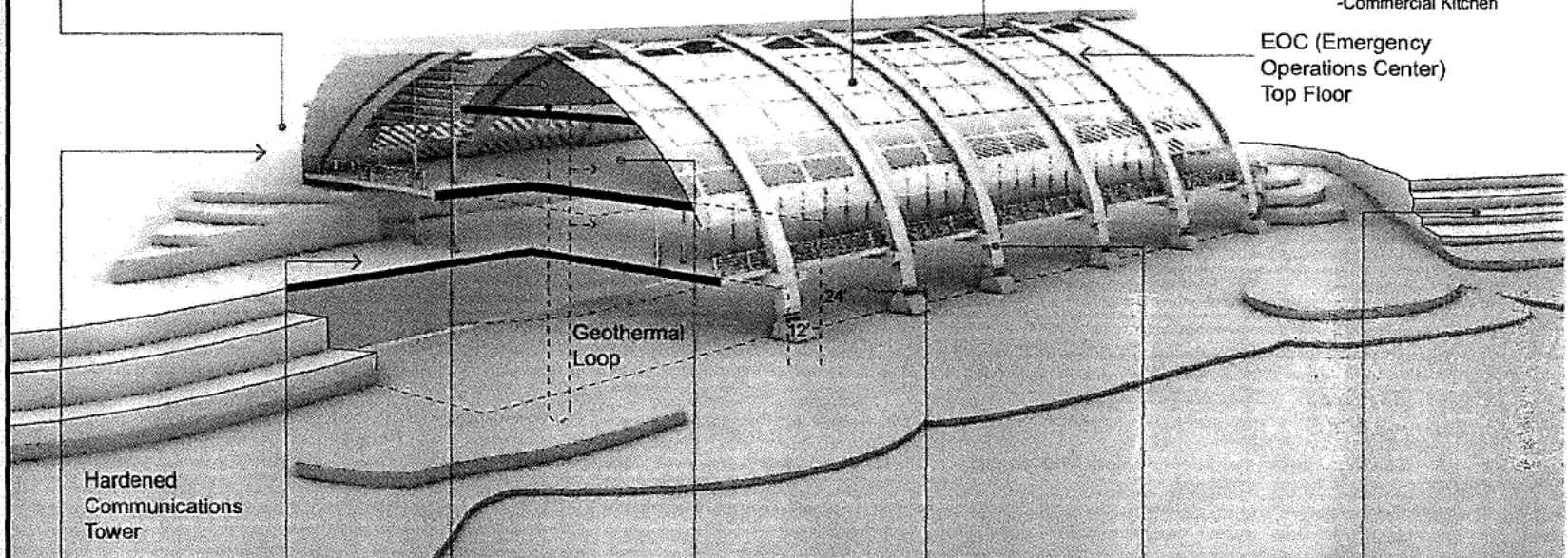
lab
architect pllc

KCRH

Wa'a Layout Concept

Huli Wa'a - Ko'olauoa Community Resilience Hub

P Alternate Upper Parking in lenai outdoor area (For EOC & Critical / First Responder Transportation)



- Shelter C
 - Classrooms
 - Equipment/storage rooms
- Shelter B
 - Computer lab
 - Clinic
- Shelter A
 - Gym (Event Space)
 - Commercial Kitchen

EOC (Emergency Operations Center) Top Floor

Hardened Communications Tower

Geothermal Loop



Main entry point located through the second occupiable floor at 24' above site ground level



Loading dock Emergency vehicle access



Mechanical systems
Solar with battery backup
Geothermal
Waste to heat
Community micro-grid
Back-up Generator



Food hub for distribution
Circular economy
Structure elevates building above the flood/tsunami zone
Medical Service Office
Satellite Service



Site ground level with permeable parking
Storm water management



FEMA 361 near absolute protection shelter CAT 5 hurricane winds, storm surge, and above extreme tsunami zone
Passive house construction



Ahupua'a restoration
Dry stack walls with agro pharma native plants
On site water capture and treatment

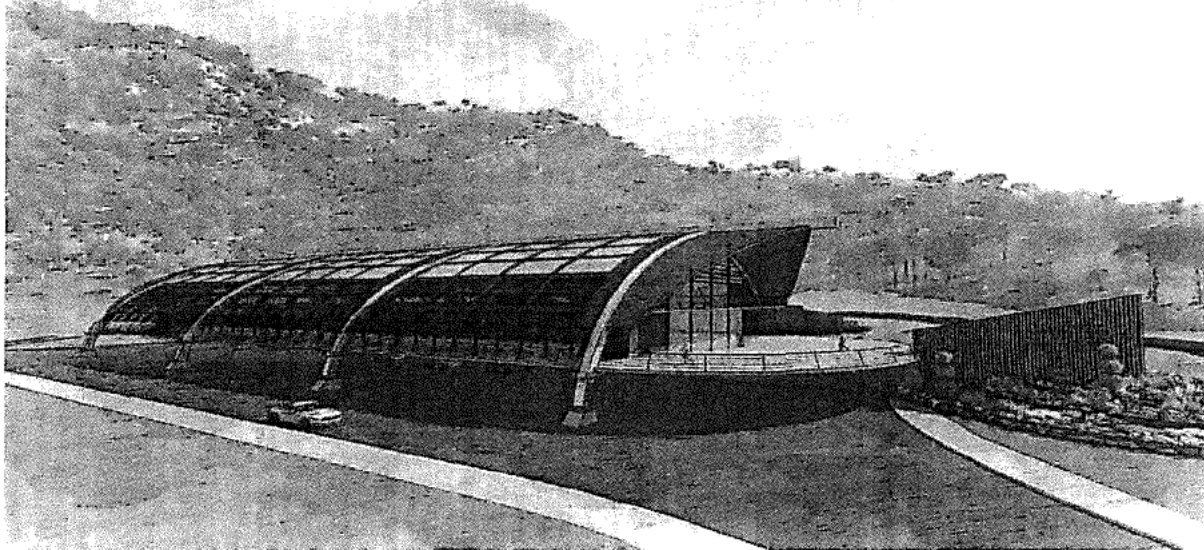
+ lab



Ko`olauloa Community Resilience Hub

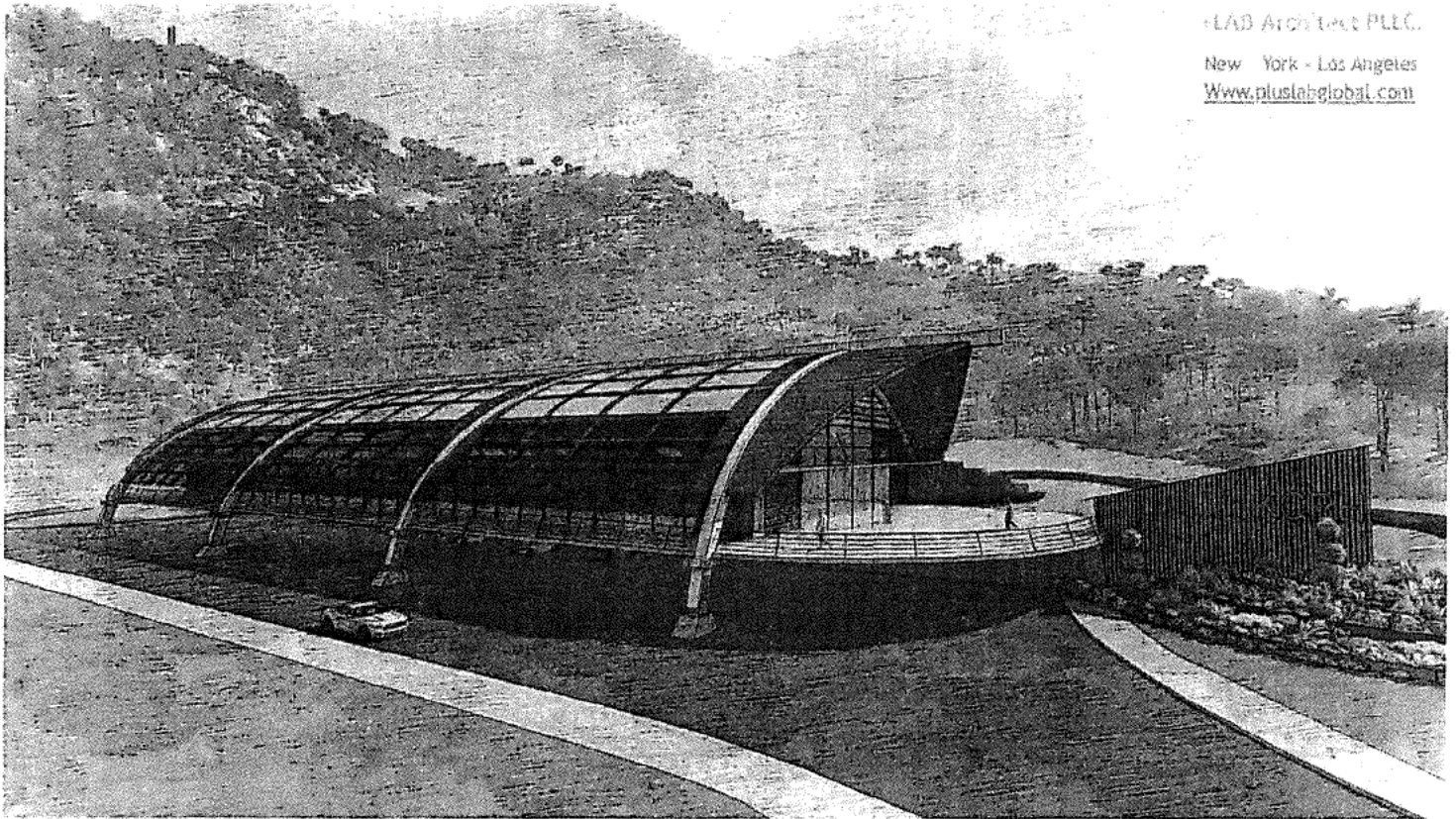
The Ko`olauloa Community Resilience Hub (KCRH) will provide near absolute protection with FEMA Safe Rooms to shelter 2,000 people during disasters. The KCRH will also provide critical resources during and after a disaster: food, water, power, healthcare and communications that will help 10-15,000 people in need during the 30 days or more when cut off from City and State services. The KCRH will serve as a model for other vulnerable, frontline communities in Hawaii. This essential infrastructure will also provide a new home for Hau`ula Community Center, to continue serving many people on a daily basis in need of social, economic, health, education, medical, and housing services in Ko`olauloa District.

Vision for Ko`olauloa Community Resilience Hub in Hau`ula, Ko`olauloa District, Oahu Island Hawaii. A Hawaiian Canoe (Wa'a) inspired this design. In storms, Native Hawaiians would "huli" (turnover) the canoe for protection. The KCRH will meet FEMA Safe Room standards to withstand a Category 5 hurricane. Figure below, Credit Azaroff, +Lab, 2022



The Ko`olauloa Community Resilience Hub will provide mission critical functions that include: Equity + Culture + People + Social Justice. These functions are ensured through the following actions:

- Shelter is resilient built to withstand Category 5 Hurricanes and out of tsunami and flood zones;
- Includes a variety of onsite renewable power systems that reliably sustain operations for the Community Resilience Hub facility before, during and after a disaster.
- Provides potable water, food, ice, refrigeration, charging stations in emergencies;
- Provides medical services and dialysis treatment on a daily basis and during an emergency;
- Provides for the safety and security for residents (and their pets) during an emergency;
- Community is actively engaged in the planning, design and day-to-day management;
- Meets the unique needs of the community residents and organizations and stakeholders;
- Serves on a daily basis as a well-known community center that is managed by a trusted community-based, non-profit (Hui o Hauula 501c3 non-profit) and supported by residents;
- Provides a wide variety of spaces and services for: educational, social, healthcare, recreational, job training, food hub, gardens, agroforestry, after-school programs providing cultural activities values, traditions, arts, music, and services for kupuna and people with disabilities

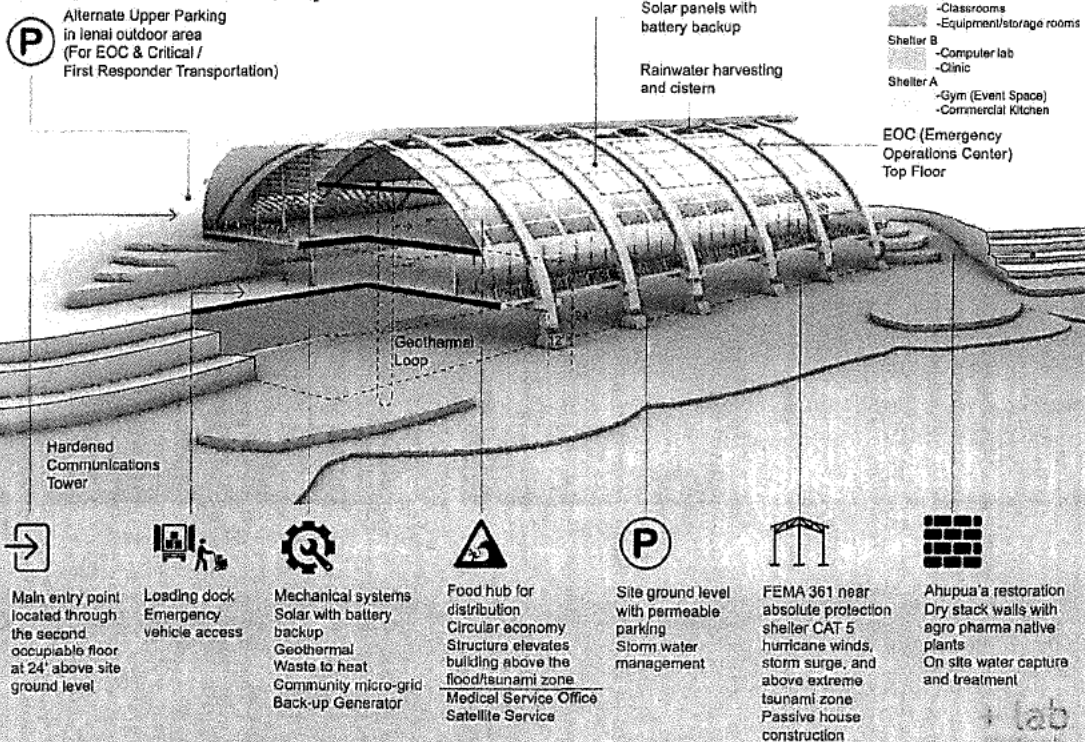


©+LAB Architect, Azaroff 2021

#KCRH Ko'olauloa Community Resilience Hub - Huli Wa'a

On the front lines of climate change, Hau'ula is identified as one of the most vulnerable communities on the North Shore of Oahu. Resilience is derived from understanding Uniqueness of place, culturally wisdom, indigenous practices, and ecologically regenerative. The #KCRH is the result of three + years of community engagement and a decade of leadership from Hui o Hau'ula. Aptly named Huli Wa'a, the building and resilience park that marries cultural wisdom with modern building intelligence to create a culturally significant, absolute near protection design, that serves as a community anchor and regenerates ecology, cultural practice, and promotes circular economy.

Huli Wa'a - Ko'olauloa Community Resilience Hub



- Tsunami ready
- Hurricane and typhoons
- 2000 person capacity
- Stand alone operations for 30 days
- Food security
- Community micro-grid



Why is a Community Resilience Hub needed in Ko`olauloa?

- No Hurricane Shelters are available in Ko`olauloa
- Ko`olauloa is at high risk for flash floods, hurricanes and tsunamis
- 85% of the homes in Ko`olauloa will be destroyed in a Category 1 (projected by City and State)
- Most homes and public infrastructure in Ko`olauloa are located in Flood and Tsunami zones
- Kamehameha Highway and bridges in Ko`olauloa will be closed due to failure/debris blockage
- City and State Emergency Agencies warned residents will be on their own for 30 days or more
- HECO projects that Ko`olauloa will be without power for 30 days or more

When will it happen, Where it will be located and how will it be funded?

Environmental Assessment & Design: G70 and + LAB Architect will complete the Environmental Assessment & Design (EAD) in 2022. The site location/address is 54-256 Hau`ula Homestead Road, Hau`ula Hawaii. Funding for the EAD has been provided by: Hawaii Community Foundation, Atherton Family Foundation, Donations from HECO and HI State Grant in Aid funds (pending release).

Construction Funding: Total cost estimated for construction is \$25,000,000.

FEMA Building Resilient Infrastructure and Communities (BRIC) grant program will fund up to 90% of the total cost through a competitive funding process. The application will be prepared by Hui o Hau`ula, on behalf of Ko`olauloa and submitted to Hawaii Emergency Management Agency in January, 25, 2023. HIEMA submits the final application to FEMA in January 27, 2023. 10-12 percent of the funding must be provided with non-federal funds. This funding can be provided through: (1) Cash and in-kind contributions (includes community hours donated to clear invasive species, etc.) through Hui o Hau`ula with the support of many organizations; (2) funding from the City GIA and State GIA; (3) foundation grants and; 4) public and private donations.

Support Oahu's first Community Resilience Hub! The `ike shared will assist other small, frontline, coastal communities to build Community Resilience Hubs to ensure resilience for those most at-risk to the effects of Climate Change.

For additional information regarding the Ko`olauloa Community Resilience Hub:

Contacts: Team Lead: Dotty Kelly Paddock: dotty.kellypaddock@gmail.com

Lead Design Architect: Illya Azaroff AIA: iapluslab@gmail.com

KO'OLAULOA COMMUNITY RESILIENCE HUB

+lab

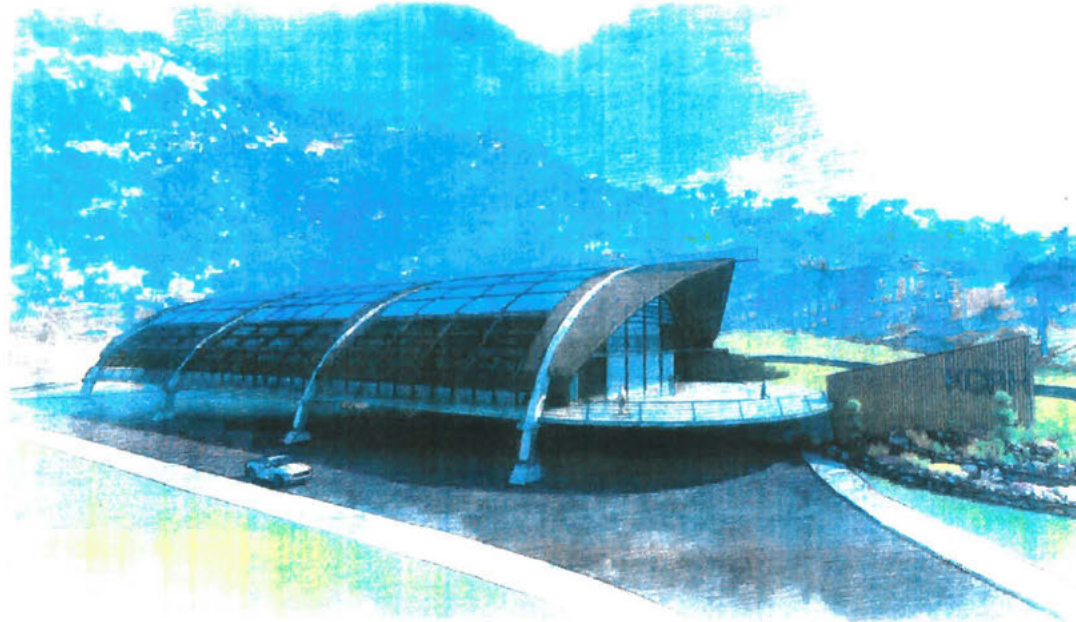
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718.783.0363

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ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

DRAWING LIST

- PD-000.00 COVER PAGE
- PD-100.00 SITE PLAN
- PD-101.00 SITE PLAN W/ FD DIAGRAM OVERLAY
- PD-102.00 MAIN BLDG. - GROUND FLOOR PLAN
- PD-103.00 MAIN BLDG. - FIRST FLOOR PLAN
- PD-104.00 MAIN BLDG. - SECOND FLOOR PLAN
- PD-105.00 MAIN BLDG. - THIRD FLOOR PLAN
- PD-106.00 MAIN BLDG. - EGRESS DIAGRAM
- PD-107.00 MAIN BLDG. - EGRESS DIAGRAM
- PD-108.00 COMMUNITY HALE - FLOOR PLANS
- PD-200.00 MAIN BLDG. - ELEVATIONS
- PD-201.00 MAIN BLDG. - ELEVATIONS
- PD-202.00 COMMUNITY HALE - ELEVATIONS
- PD-300.00 MAIN BLDG. - SECTIONS
- PD-301.00 MAIN BLDG. - SECTIONS
- PD-302.00 COMMUNITY HALE - SECTIONS



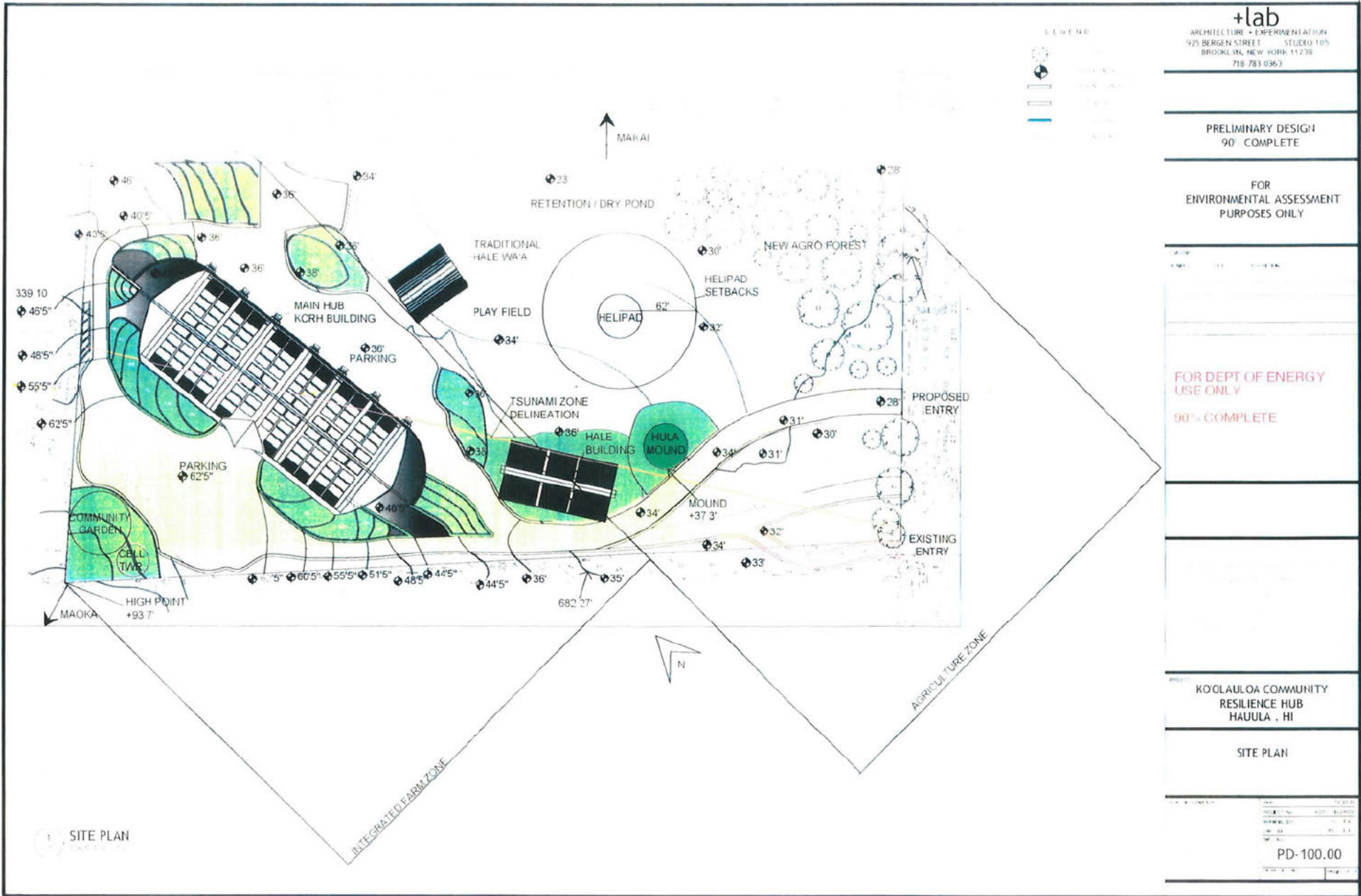
1 MAIN BUILDING PERSPECTIVE RENDER
SCALE: NOT TO SCALE

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KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

COVER PAGE
LIST OF DRAWINGS

PD-000.00



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KOGLAUOLA COMMUNITY
 RESILIENCE HUB
 HAUULA, HI

SITE PLAN

PD-100.00

SITE PLAN

DATE	12/22/20
SCALE	AS SHOWN
PROJECT NO.	KR-19-001
DRAWING NO.	1.1
DATE	12/22/20
BY	ML
CHECKED BY	ML
DATE	12/22/20
PROJECT	KOGLAUOLA COMMUNITY RESILIENCE HUB
SHEET	1.1
TOTAL SHEETS	1.1
SCALE	AS SHOWN
DATE	12/22/20
BY	ML
CHECKED BY	ML
DATE	12/22/20
PROJECT	KOGLAUOLA COMMUNITY RESILIENCE HUB
SHEET	1.1
TOTAL SHEETS	1.1
SCALE	AS SHOWN
DATE	12/22/20
BY	ML
CHECKED BY	ML
DATE	12/22/20

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DATE: 11/15/2024

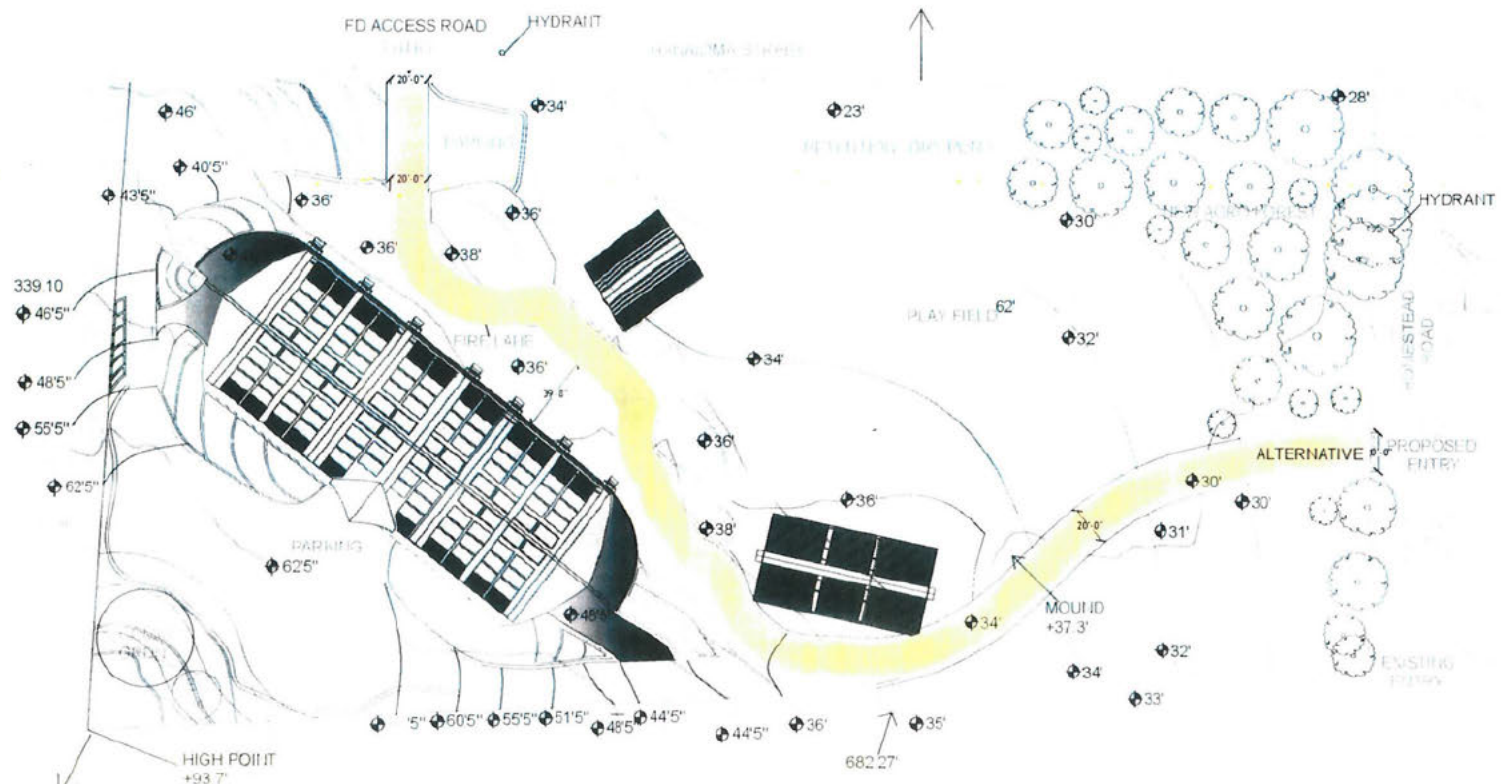
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USE ONLY
90% COMPLETE

KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

SITE PLAN WITH
FD DIAGRAM OVERLAY

NO.	DATE	DESCRIPTION
1	12.22.23	ISSUED FOR PERMITTING
2	11.15.24	REVISED FOR DEPT OF ENERGY

PROJECT NO: PD-101.00
DATE: 11/15/24



1 SITE PLAN WITH FD DIAGRAM OVERLAY

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PURPOSES ONLY

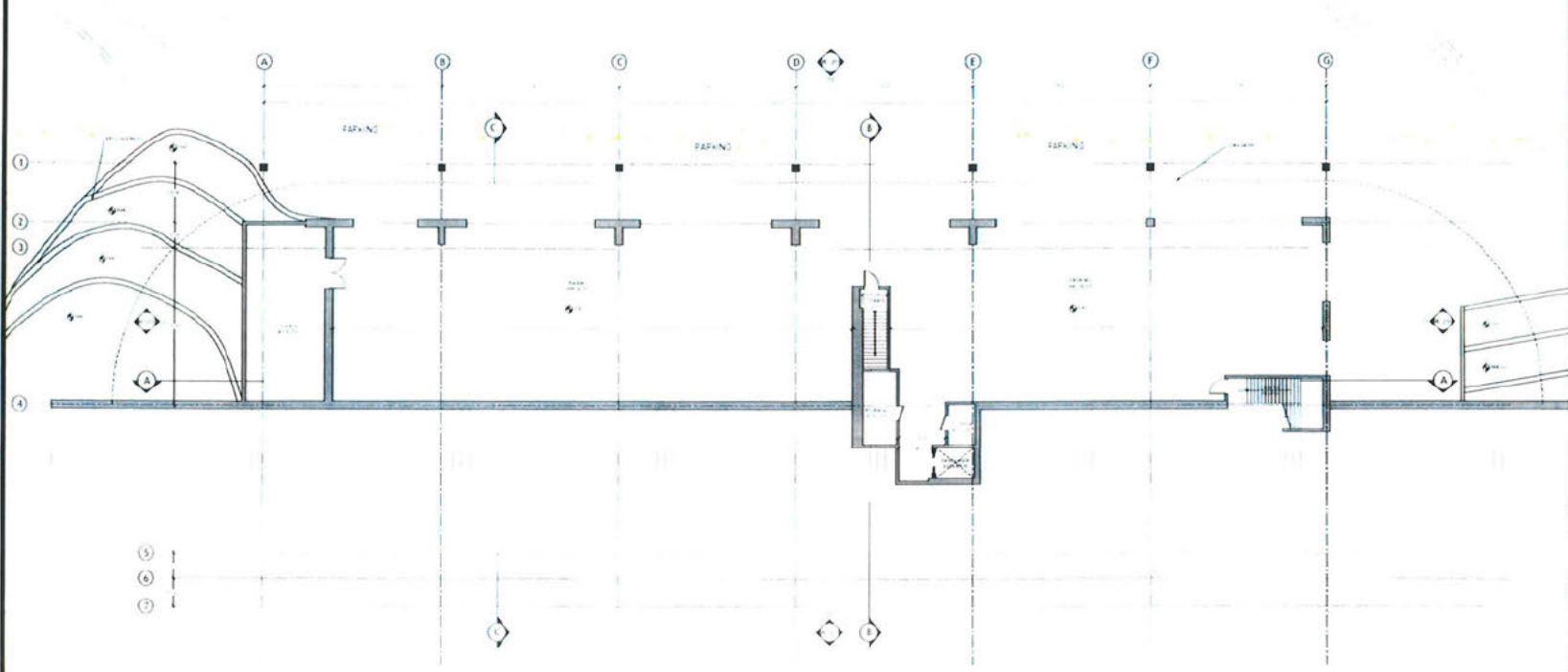
FOR DEPT OF ENERGY
USE ONLY
90% COMPLETE

PROJECT
KOOLAULOLO COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
GROUND FLOOR PLAN

LEGEND

	WALL
	WINDOW
	DOOR
	COLUMN
	PARKING
	STAIRS
	RAMP
	ROOF
	FLOOR FINISH
	CEILING FINISH
	WALL FINISH
	DOOR SWING
	WINDOW SWING
	COLUMN CENTER
	GRID LINE



1 MAIN BUILDING GROUND FLOOR PLAN

DATE	12.22.23
PROJECT NO.	100-102.00
OWNER	U.S. DOE
ARCHITECT	+lab
SCALE	AS SHOWN
PD-102.00	

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PURPOSES ONLY

FOR DEPT OF ENERGY
USE ONLY

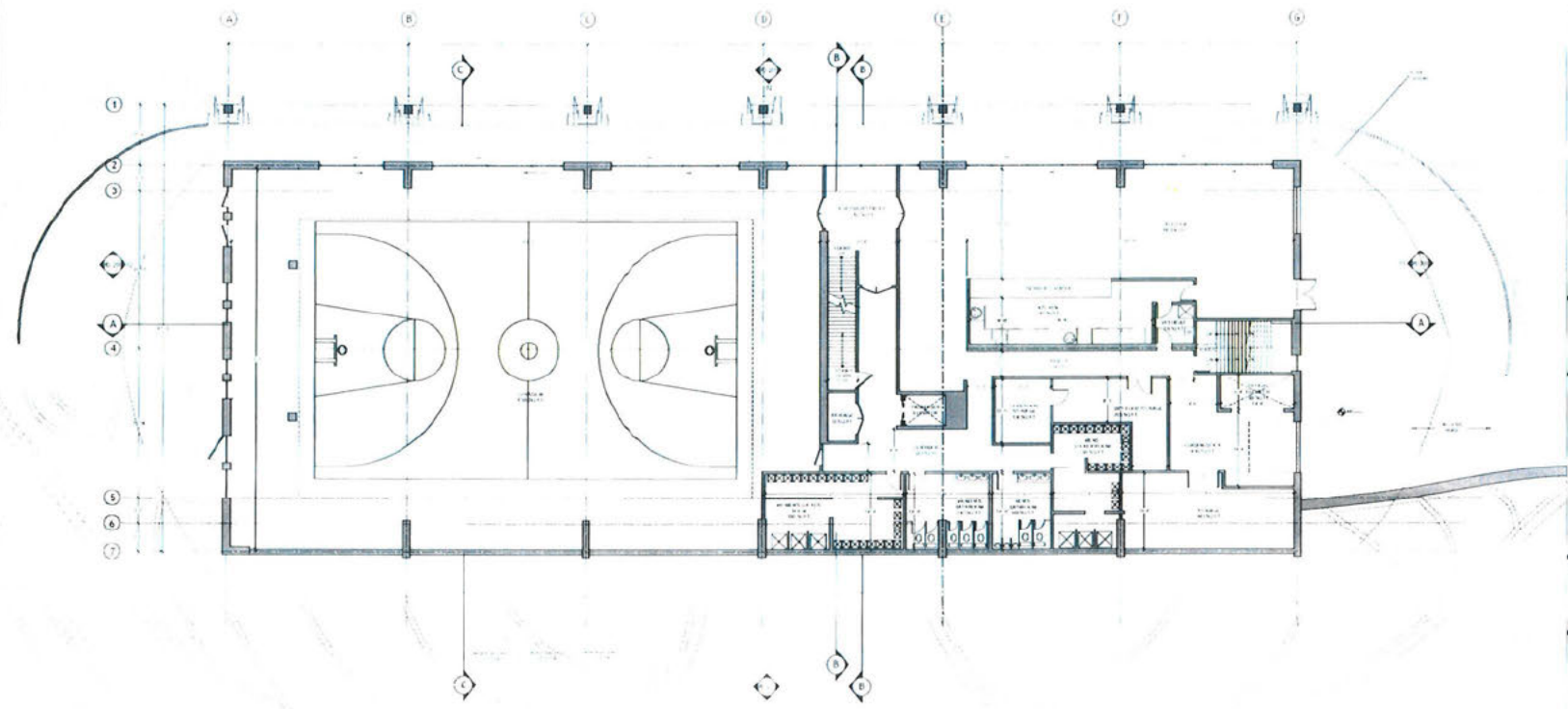
90% COMPLETE

KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
FIRST FLOOR PLAN

LEGEND

	WALL
	DOOR
	WINDOW
	STAIRCASE
	ELEVATOR
	RAMP
	STRUCTURAL COLUMN
	STRUCTURAL BEAM
	STRUCTURAL SLAB
	STRUCTURAL FOUNDATION
	STRUCTURAL WALL
	STRUCTURAL COLUMN CAP
	STRUCTURAL BEAM CAP
	STRUCTURAL SLAB CAP
	STRUCTURAL FOUNDATION CAP
	STRUCTURAL WALL CAP



1 MAIN BUILDING: FIRST FLOOR PLAN

PD-103.00

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FOR DEPT OF ENERGY
USE ONLY

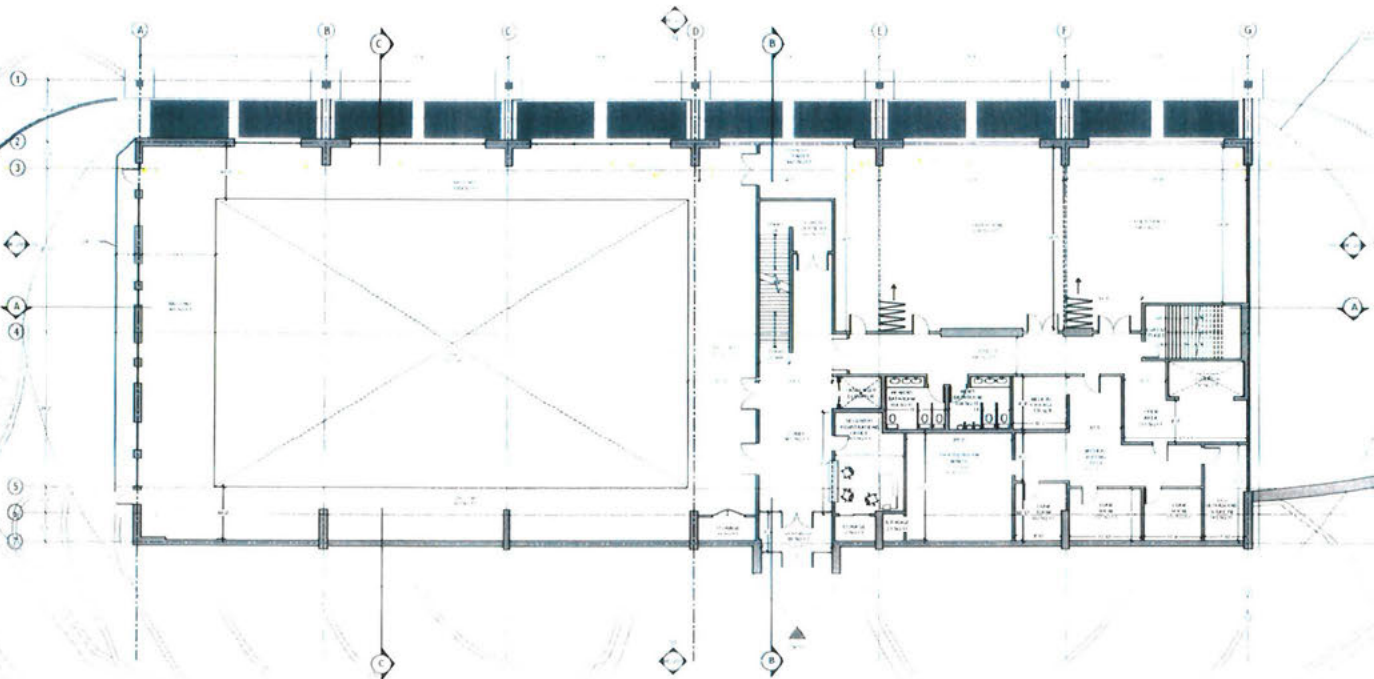
90% COMPLETE

PROJECT
KOOLAULOVA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
SECOND FLOOR PLAN

LEGEND

	WALL
	DOOR
	WINDOW
	STAIRCASE
	ELEVATOR
	MECHANICAL EQUIPMENT
	STRUCTURAL COLUMN
	STRUCTURAL BEAM
	STRUCTURAL SLAB
	STRUCTURAL FOUNDATION
	STRUCTURAL WALL
	STRUCTURAL COLUMN (CIRCULAR)
	STRUCTURAL BEAM (DASHED)
	STRUCTURAL SLAB (DASHED)
	STRUCTURAL WALL (DASHED)
	STRUCTURAL COLUMN (SQUARE)
	STRUCTURAL BEAM (SOLID)
	STRUCTURAL SLAB (SOLID)
	STRUCTURAL WALL (SOLID)



1 MAIN BUILDING SECOND FLOOR PLAN
DATE: 10/15/14

DATE	10/15/14
PROJECT NO.	104.00
SCALE	AS SHOWN
PROJECT NAME	KOOLAULOVA COMMUNITY RESILIENCE HUB
LOCATION	HAUULA, HI
PROJECT NO.	104.00
DATE	10/15/14
PROJECT NAME	KOOLAULOVA COMMUNITY RESILIENCE HUB
LOCATION	HAUULA, HI
PROJECT NO.	104.00
DATE	10/15/14

+lab

ARCHITECTURE • EXPERIMENTATION
125 BERGEN STREET STUDIO 105
BROOKLYN, NEW YORK 11218
718-781-0363

PRELIMINARY DESIGN
100% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

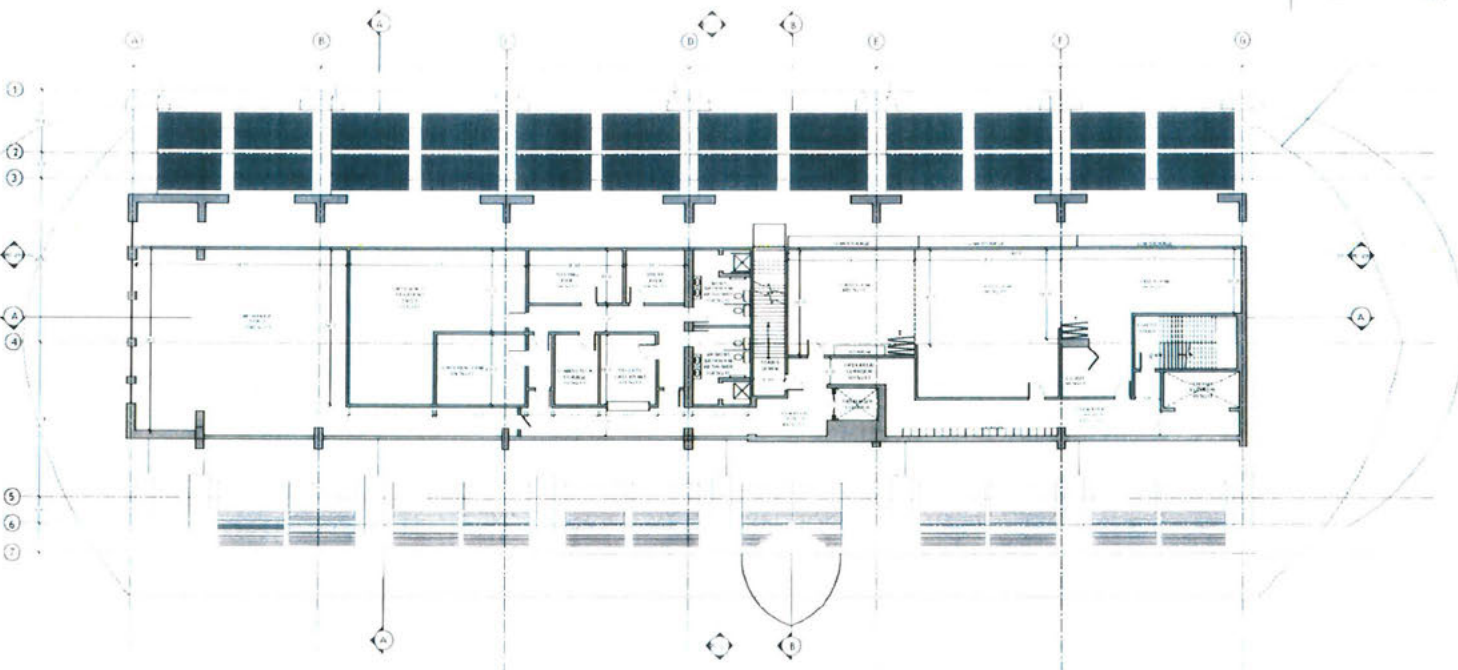
PROJECT
KO'OLAULOLO COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
THIRD FLOOR PLAN

PD-105.00

LEGEND

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[Symbol]	ELEVATOR
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[Symbol]	CEILING
[Symbol]	FLOOR
[Symbol]	ROOF
[Symbol]	FOUNDATION
[Symbol]	STRUCTURE



1 MAIN BUILDING THIRD FLOOR PLAN

DATE	12.18.21
SCALE	AS SHOWN
DRAWN BY	JL
CHECKED BY	JL
PROJECT NO.	PD-105.00
REV. NO.	01

+lab

ARCHITECTURE • EXPERIMENTATION
925 BERGEN STREET STUDIO 1105
BROOKLYN, NEW YORK 11238
718-783-0363

PRELIMINARY DESIGN
90% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

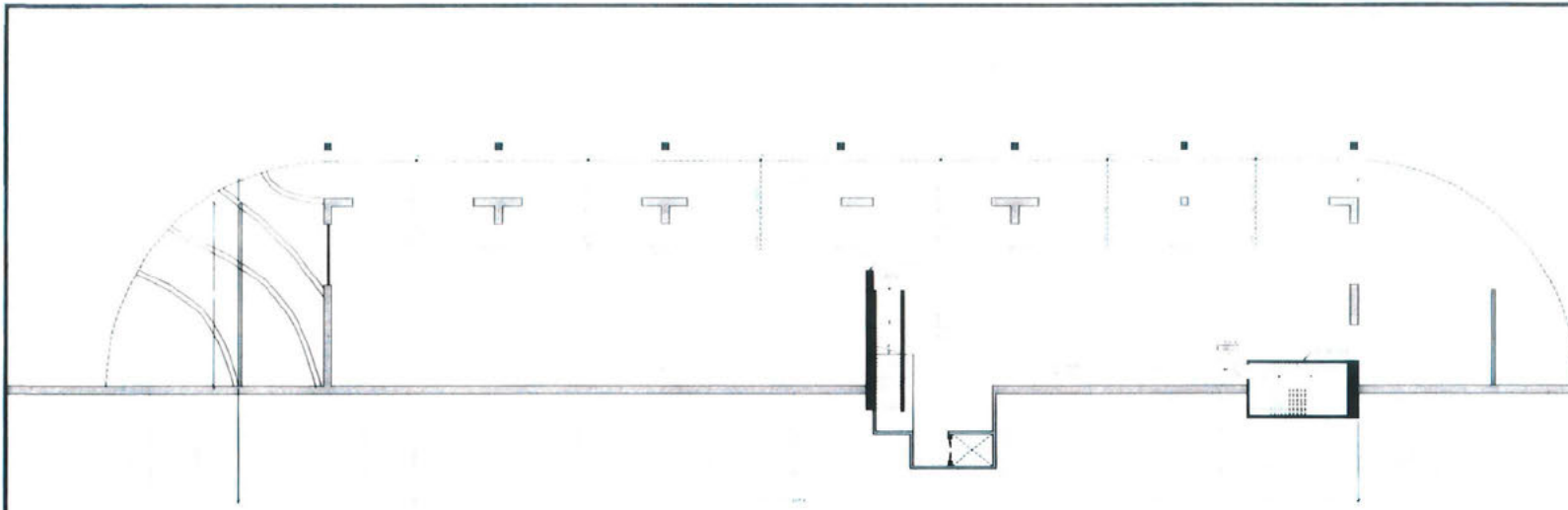
FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

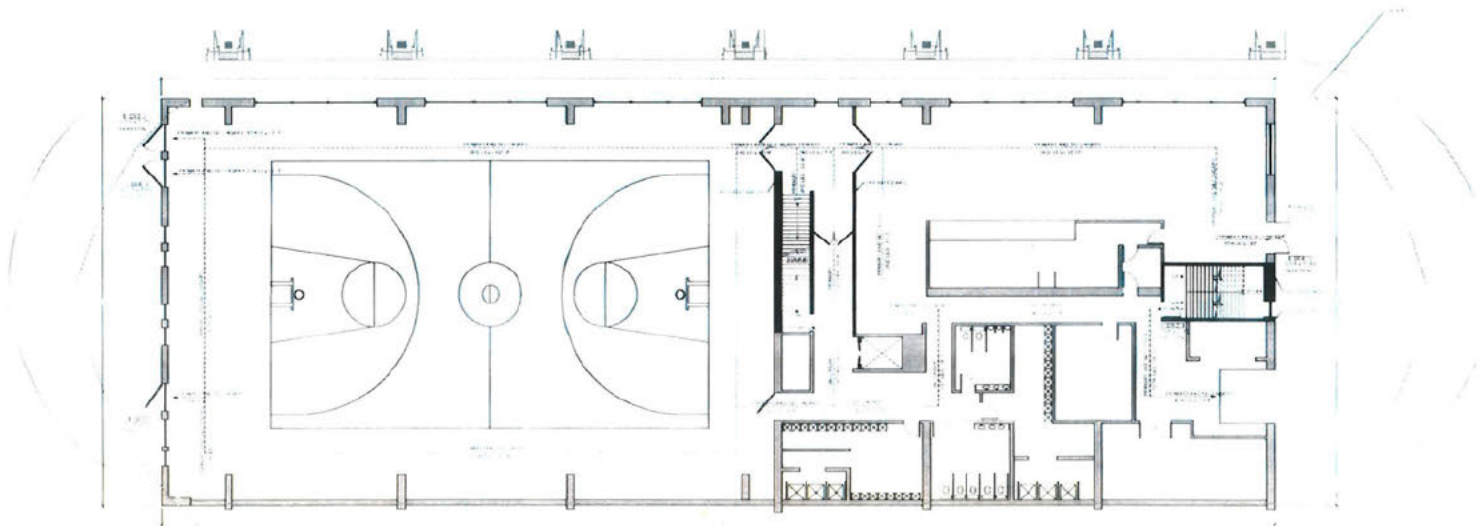
PROJECT
KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
EGRESS PATHS
GROUND & FIRST FLOOR

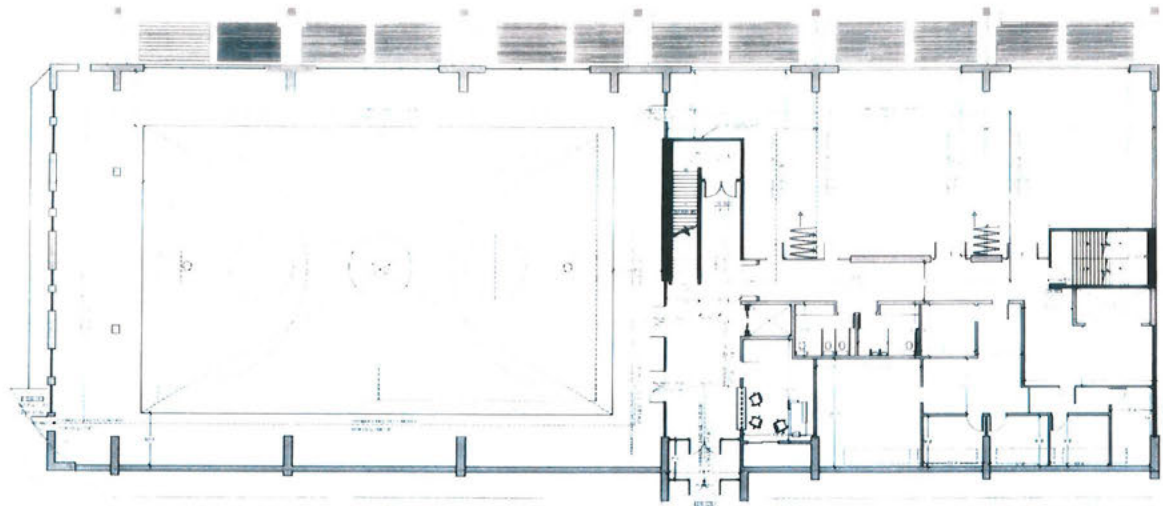
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PROJECT NO.	106.00
OWNER	HAUULA
ARCHITECT	+lab
SCALE	1/8" = 1'-0"
PD-106.00	
REV. 1	DATE



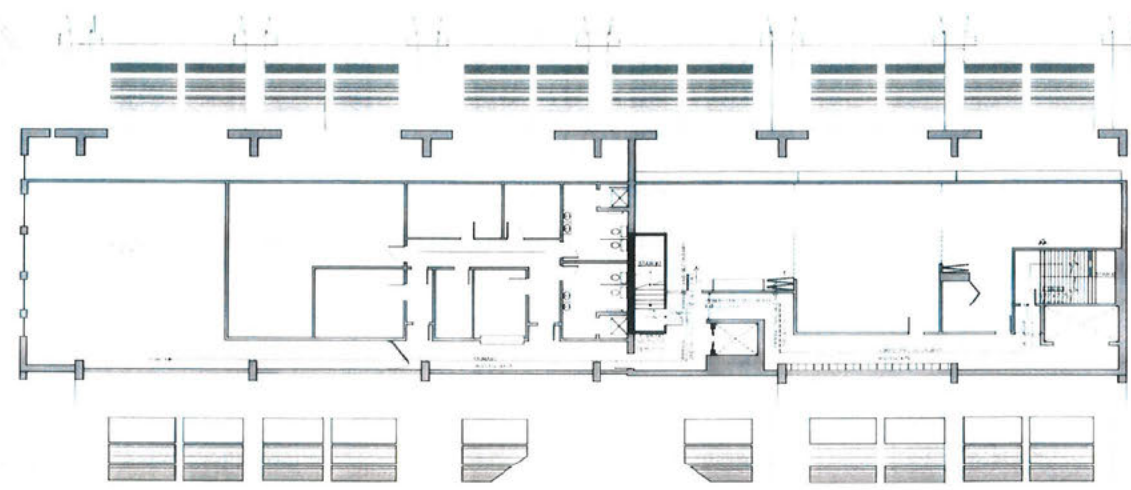
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SCALE: 3/32" = 1'-0"



2 MAIN BUILDING FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"



1 MAIN BUILDING SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 MAIN BUILDING THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

+lab

ARCHITECTURE • EXPERIMENTATION
925 BERGEN STREET STUDIO 105
BROOKLYN, NEW YORK 11218
/10-781-0363

PRELIMINARY DESIGN
90% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

KOOLAULOOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
EGRESS PATHS
SECOND & THIRD FLOOR

	DATE: 11/11/2020
	PROJECT: PD-107.00

+lab

ARCHITECTURE + EXPERIMENTATION
925 BERGEN STREET STUDIO 100
BROOKLYN, NEW YORK 11238
718.783.0063

PRELIMINARY DESIGN
100% COMPLETE

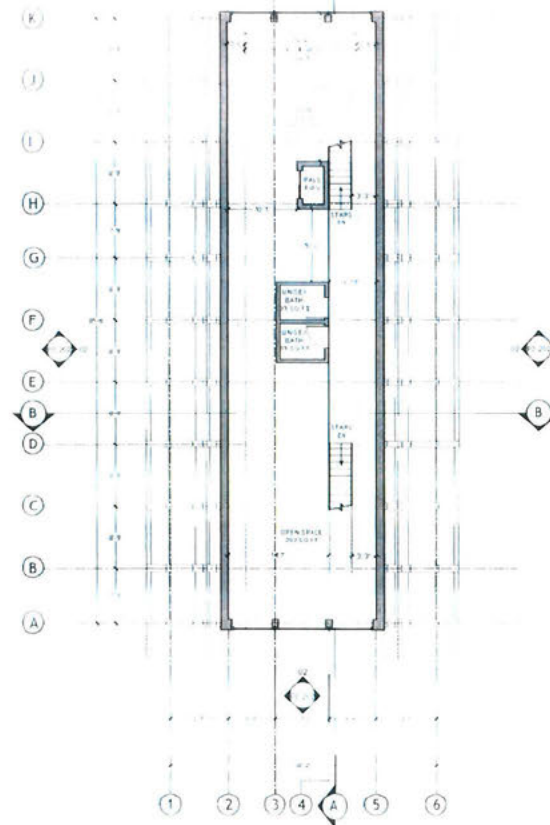
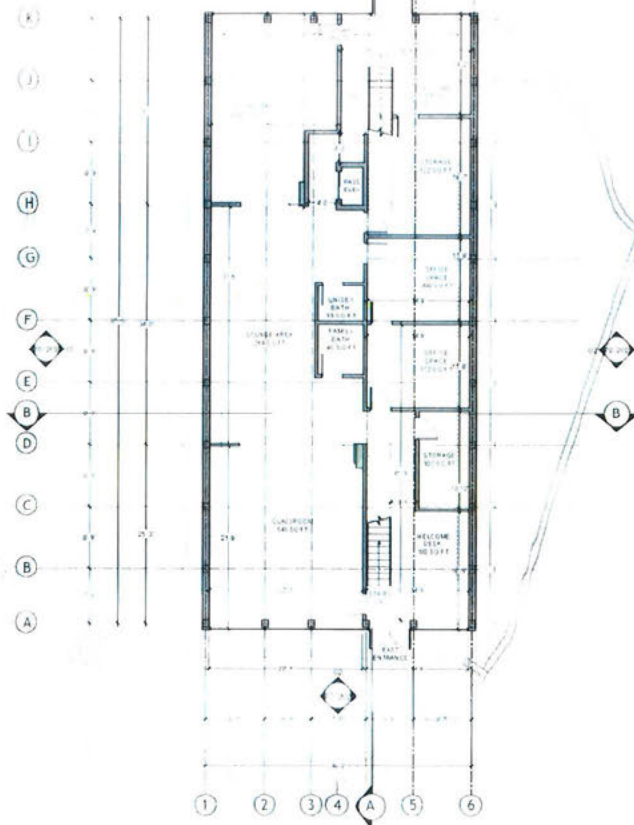
FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

HALE BUILDING
FLOOR PLANS



1 HALE BUILDING - FIRST FLOOR PLAN

2 HALE BUILDING - SECOND FLOOR PLAN

PD-108.00

+lab

ARCHITECTURE • EXPERIMENTATION
925 BERGEN STREET STUDIO 105
BROOKLYN, NEW YORK 11238
718.783.0363

PRELIMINARY DESIGN
100% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

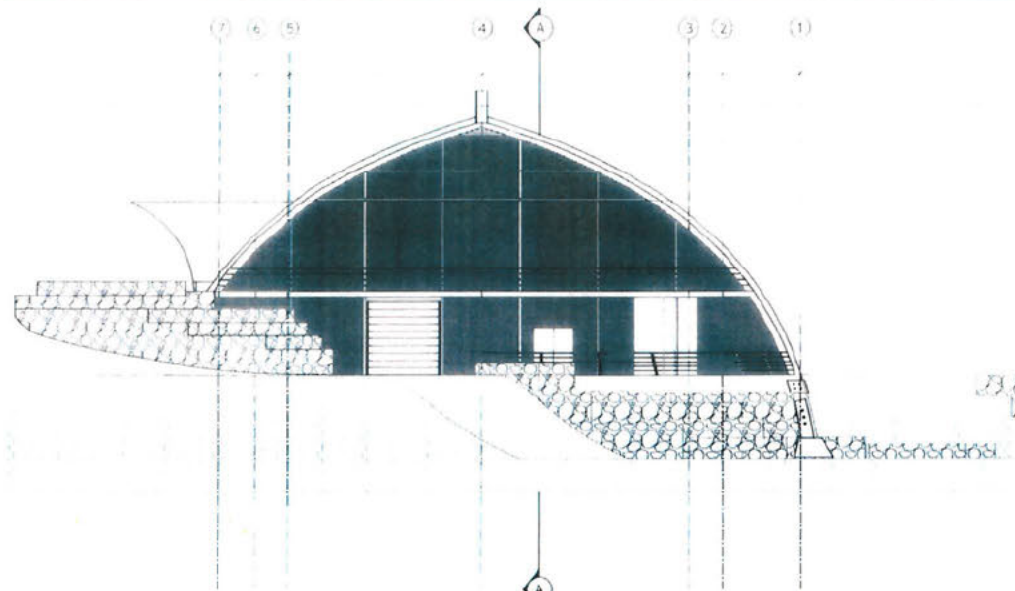
FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

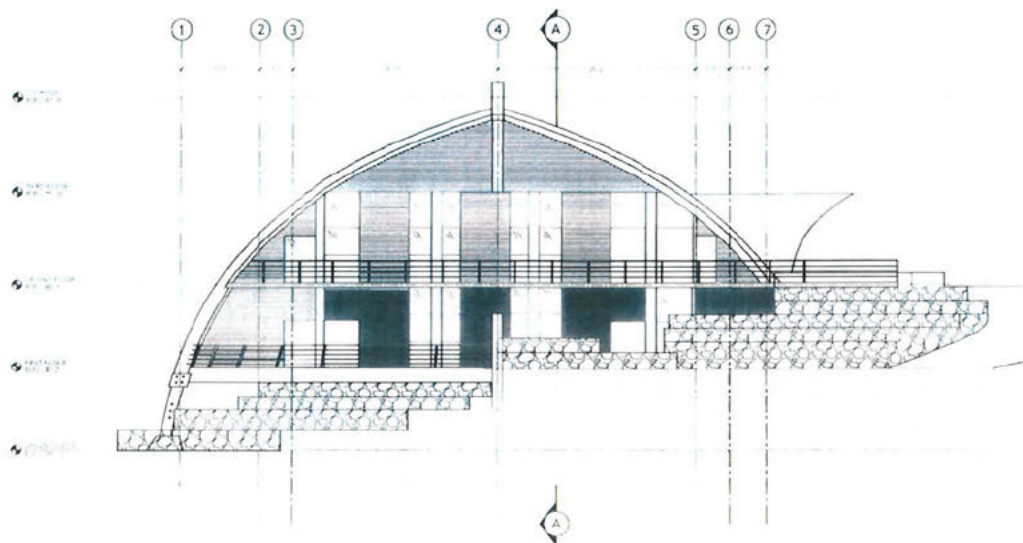
KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
EXTERIOR ELEVATIONS
EAST & WEST

PD-200.00



1 ELEVATION PROJECT EAST
SCALE: 1/8" = 1'-0"



2 ELEVATION PROJECT WEST
SCALE: 1/8" = 1'-0"

+lab

ARCHITECTURE • EXPERIMENTATION
925 BERGEN STREET STUDIO 105
BROOKLYN, NEW YORK 11238
718.783.0363

PRELIMINARY DESIGN
100% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

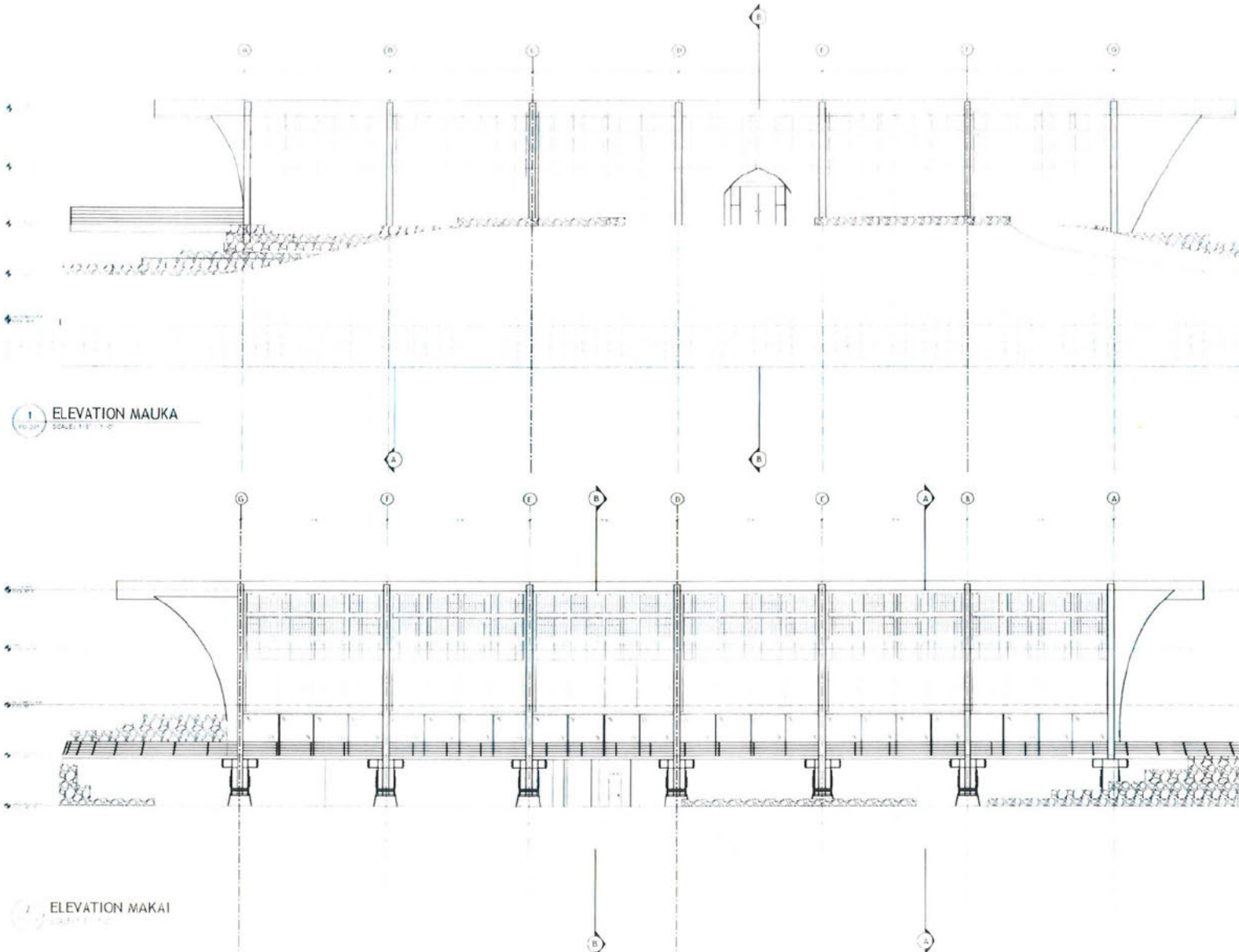
FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

PROJECT
KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
EXTERIOR ELEVATIONS
MAUKA & MAKAI

PD-201.00



1 ELEVATION MAUKA
SCALE: 1/8" = 1'-0"

2 ELEVATION MAKAI
SCALE: 1/8" = 1'-0"

+lab

ARCHITECTURE + EXPERIMENTATION
925 BERGEN STREET STUDIO 105
BROOKLIN, NEW YORK 11218
718 781-0361

PRELIMINARY DESIGN
100% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

PROJECT
KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

HALE BUILDING
EXTERIOR ELEVATIONS

NO. 22270

DATE 11/11/2020

SCALE 1/8" = 1'-0"

NO. 22270

DATE 11/11/2020

SCALE 1/8" = 1'-0"

NO. 22270

DATE 11/11/2020

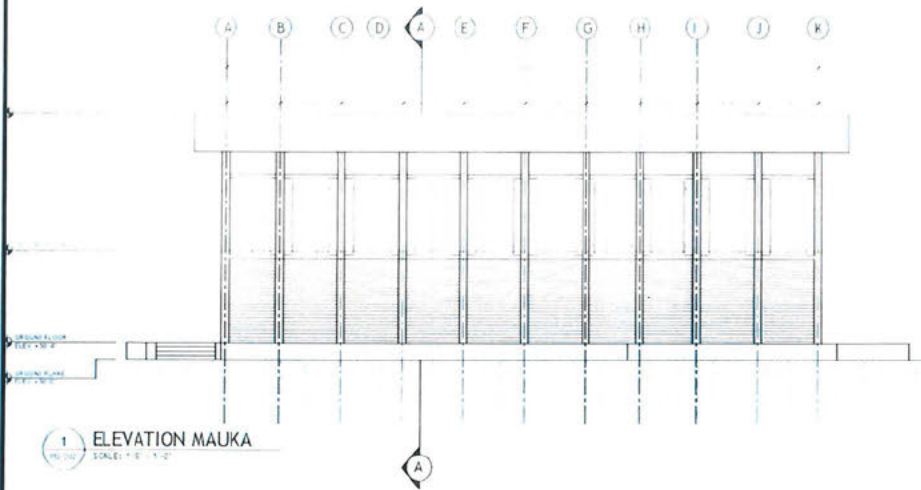
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NO. 22270

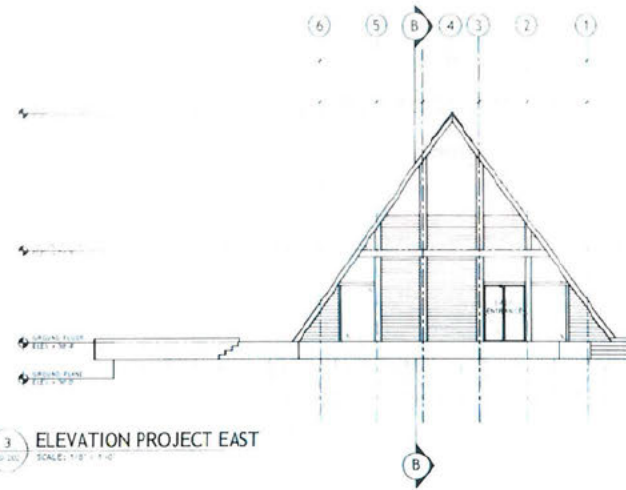
DATE 11/11/2020

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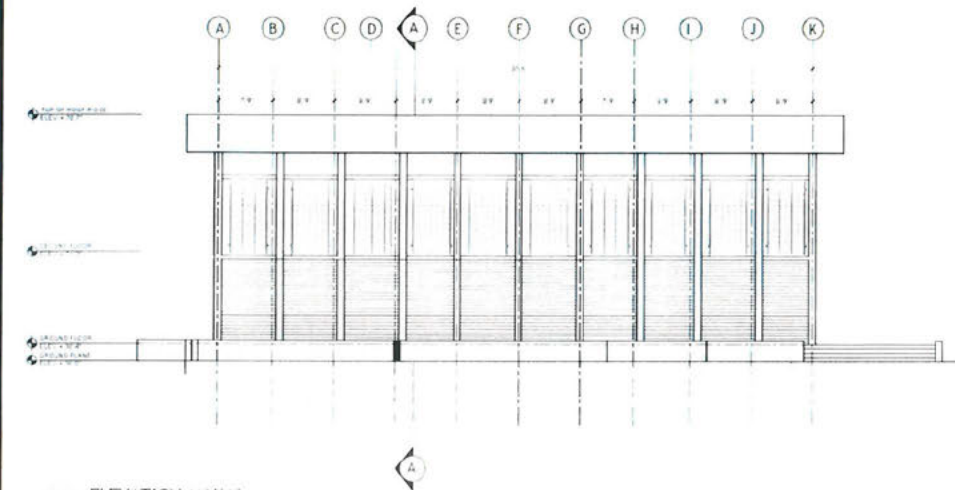
A B C D A E F G H I J K



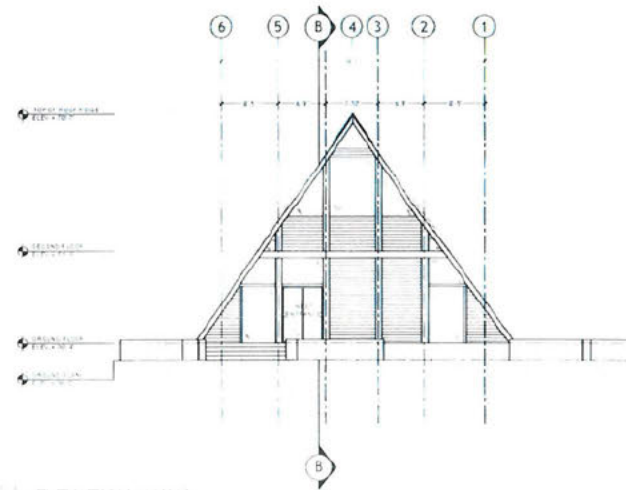
6 5 B 4 3 2 1



A B C D A E F G H I J K



6 5 B 4 3 2 1



1 ELEVATION MAUKA
SCALE 1/8" = 1'-0"

3 ELEVATION PROJECT EAST
SCALE 1/8" = 1'-0"

2 ELEVATION MAKAI
SCALE 1/8" = 1'-0"

4 ELEVATION MAKAI
SCALE 1/8" = 1'-0"

+lab

ARCHITECTURE + EXPERIMENTATION
925 BERGEN STREET STUDIO 105
BROOKLYN, NEW YORK 11238
718-781-0363

PRELIMINARY DESIGN
100% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

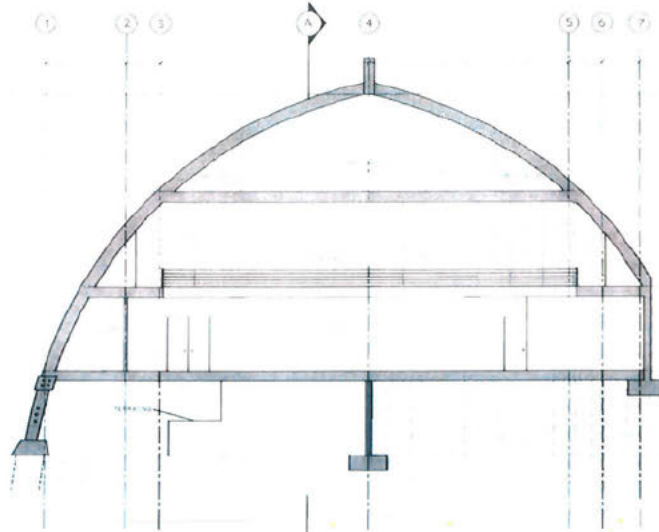
FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

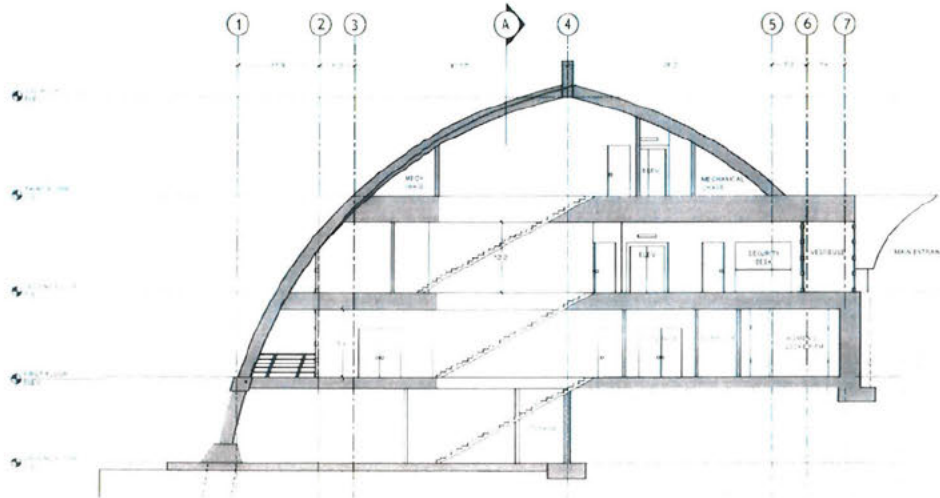
PROJECT
KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

MAIN BUILDING
SECTIONS CC & BB

PD-300.00

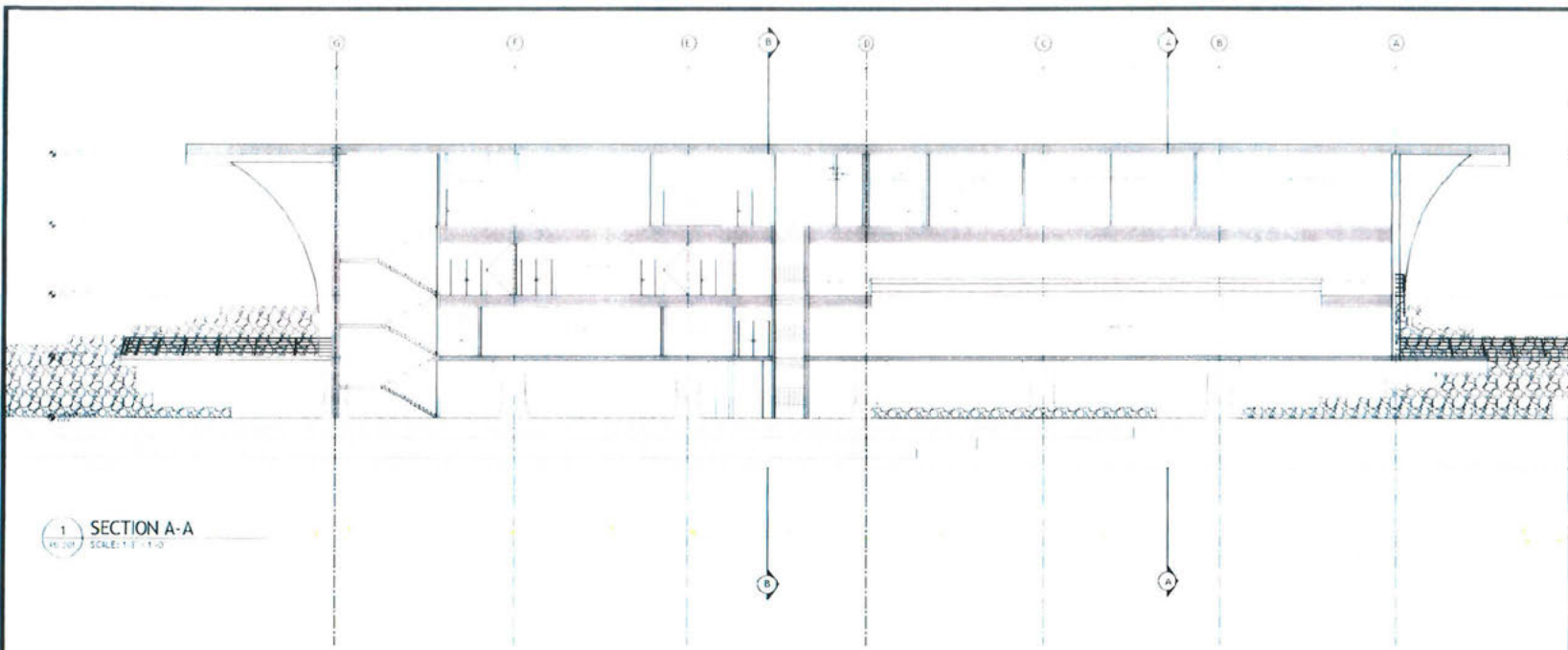


1 SECTION C-C
SCALE: 1/8" = 1'-0"



2 SECTION B-B
SCALE: 1/8" = 1'-0"

DATE:	11/22/22
SCALE:	AS SHOWN
DATE:	11/22/22
SCALE:	AS SHOWN
DATE:	11/22/22
SCALE:	AS SHOWN
DATE:	11/22/22
SCALE:	AS SHOWN



1 SECTION A-A
SCALE: 1/8" = 1'-0"

+lab
 ARCHITECTURE • EXPERIMENTATION
 9/5 BERGEN STREET STUDIO 105
 BROOKLYN, NY 11218
 718.781.0303

PRELIMINARY DESIGN
 100% COMPLETE
 FOR ENVIRONMENTAL ASSESSMENT
 PURPOSES ONLY

FOR DEPT OF ENERGY
 USE ONLY
 90% COMPLETE

PROJECT: KOOLAULOA COMMUNITY
 RESILIENCE HUB
 HAUULA, HI

MAIN BUILDING
 SECTION A-A

DATE	1/22/22
PROJECT	KOOLAULOA COMMUNITY RESILIENCE HUB
OWNER	STATE OF HAWAII
ARCHITECT	+lab
SCALE	1/8" = 1'-0"
NO.	PD-301.00
DATE	1/22/22

+lab

ARCHITECTURE + EXPERIMENTATION
925 BERGEN STREET STUDIO 105
BROOKLYN, NEW YORK 11238
718-763-0363

PRELIMINARY DESIGN
100% COMPLETE

FOR
ENVIRONMENTAL ASSESSMENT
PURPOSES ONLY

DATE: 01/11/2023
DRAWN BY: JAC

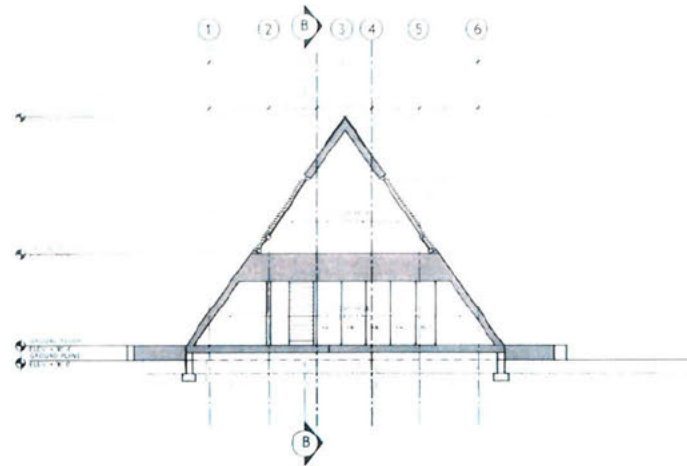
FOR DEPT OF ENERGY
USE ONLY

90% COMPLETE

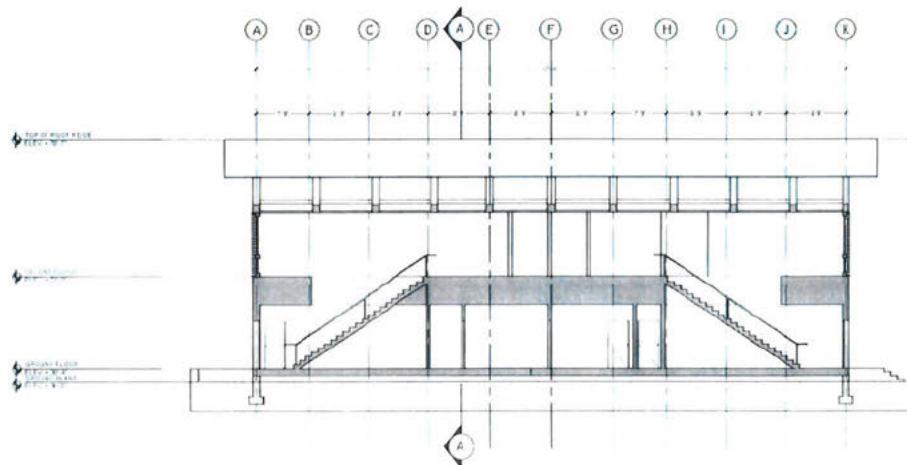
KOOLAULOA COMMUNITY
RESILIENCE HUB
HAUULA, HI

HALE BUILDING
SECTIONS A-A & B-B

PROJECT: PD-302.00



1 HALE SECTION A-A
SCALE: 1/8" = 1'-0"



2 HALE SECTION B-B
SCALE: 1/8" = 1'-0"

ETIPP Technical Assistance Project Scope - DRAFT

Community: Hau`ula

Project Title: Koolauloa Community Resilience Hub, Hau`ula, HI - ETIPP
Renewable Energy Resilience Project

Points of Contact

Below are the individuals who can be contacted to obtain information about any aspect of the project. If the people below do not have an answer, they can ask the people who do.

Community:

Dotty Kelly-Paddock
Executive Director, Hui o Hau`ula
dotty.kellypaddock@gmail.com
(808) 255-6944

Illya Azaroff
Principal Architect, +Lab
ia.pluslab@gmail.com
(917) 676-3496

ETIPP Partner Network:

Mike Campton
Project Manager, NREL
mike.campton@nrel.gov
(415) 619-4102

Andrea Mammoli
Technical Lead, SNL
aamammo@sandia.gov
(505) 379-3129

Mark Glick
Regional Partner, HNEI
mbglick@hawaii.edu
(808) 271-4925

Background

Hui o Hau`ula has been planning construction of the Ko`olauloa Community Resilience Center and aim to have it improve the energy resilience of the surrounding communities and serve as an emergency shelter.

This scope of work outlines the technical assistance and activities that the ETIPP program will provide to Hui o Hau'ula to achieve the community's goals. This scope is intended to be a working document that can be subject to change, dependent on various factors such as the outcomes and findings of activities, timelines, funding, and changes in the priorities of the Hui o Hau'ula community.

Goals & Anticipated Impacts

Hui o Hau'ula representatives have indicated three broad goals for the Ko'olauloa Community Resilience Hub that ETIPP technical assistance could support:

- **Community Center and Emergency Shelter:** Hui o Hau'ula aims to build a Community Resilience Hub that can serve as a community center during regular operations and provide critical services before, during, and after a disaster.
- **Clean Energy and Energy Resilience:** Due to the remote and vulnerable location of the Ko'olauloa District, Hui o Hau'ula aims for the Community Resilience Hub to utilize clean energy options to continue to provide critical services as an islanded grid during power outages.
- **Continued Funding and Support:** Hui o Hau'ula aims to provide cost and feasibility justification as the community continues to seek funding and support for the construction of the Community Resilience Hub.

The ETIPP technical assistance will support these goals by:

- identifying and ranking critical services that can be provided by the Resilience Hub, and quantifying associated energy requirements;
- providing options to the community for how the hub's energy requirements could be provided to the hub, and inform the community on tradeoffs associated with each option, including of cost, performance and emissions;
- providing a "20% engineering design" based on the energy and resilience options selected by the community that Hui o Hau'ula and +Lab can be use to inform the full engineering design process; and
- communicating the findings and options from the analyses to Hui o Hau'ula and the wider community

Stakeholders

Hui o Hau'ula is the primary stakeholder, with Dotty Kelly-Paddock, Executive Director, as the main point of contact on this project. Other representatives from Hui o Hau'ula are also involved in this project—their full details are included in the stakeholder contacts table below. The architecture partner of the community, +Lab, is also a stakeholder in this project, with Illya Azaroff, Principal Architect, serving as the main point of contact. Although not part of the decision-making process for this project, other stakeholders such as the City and County of Honolulu, Honolulu Board of Water Supply (BWS), Hawaii Department of Land and Natural Resources, and Hawaiian Electric Company (HECO) are potential key stakeholders that the community and project team will look to engage with.

Name	Organization	Title	Email	Role
Dotty Kelly-Paddock	Hui o Hau'ula	Executive Director	dotty.kellypaddock@gmail.com	Involve
Ella Siroskey	Hui o Hau'ula		ellarn0929@gmail.com	
Mona Curry	Hui o Hau'ula		mona_curry@yahoo.com	
Raynae "Tessie" Fonoimoana	Hui o Hau'ula		tessie50@gmail.com	
Ken Furukawa	Hui o Hau'ula		hauulaken.6@gmail.com	
Dr. Miriam Chang	Hui o Hau'ula		turbochang@hotmail.com	
Illya Azaroff	+Lab	Principal Architect	ia.pluslab@gmail.com	Involve
Erik Jester	+Lab	Architect	ej.pluslab@gmail.com	Consult
	City and County of Honolulu			
	Honolulu BWS			
	Hawaii DLNR			
	HECO			

Internal Elevator Pitch

Sandia staff will use its analysis tools and expertise to assist the Hau'ula community and its stakeholders to make informed decisions on how to power critical services offered by the Resilience Hub, and will guide the design of the energy system once options are chosen.

External Elevator Pitch

The Ko'olaupia District is located on the north shore of Oahu, Hawaii, and is one of the most vulnerable areas to weather and disasters such as storms, earthquakes, tsunamis, and sea level rise. The Hui o Hau'ula community within the district is building a Community Resilience Hub to provide safety and security for the residents of Ko'olaupia during these disasters and power outages. The community is particularly at risk due to its location and having only one access point to the rest of the island. The Resilience Hub will serve as a regular community center and an emergency hub during disasters, offering shelter, food, water, medical care, and charging facilities for electronics and electric vehicles (EVs). ETIPP technical assistance will help find the most environmentally responsible and cost-effective energy solutions to provide the Hub's critical services, even for extended periods during which power, water and other services may not be available.

Activities

Activity 1: Data Collection

Description

Engage with Hui o Hau'ula, its stakeholders and its existing collaborators (Hawai'i Natural Energy Institute, +Lab and others) to understand the design process that led to the development of the Resilience Hub to date. Using an established process, work with the community to identify, understand, quantify and rank (if possible) the critical services that can be provided by the Resilience Hub. Services may include water, food, medical, housing.

Deliverables

- Interim report

Risks

- Cannot reach consensus on the definition of critical services and on their relative importance.
- Cannot find sufficient information to quantify energy needs for the critical services.
- Stakeholder participation and availability

Activity 2: Preliminary Analysis and Options

Description

Based on the stated needs for resilience services, Sandia staff will use information provided by +lab and by the community to estimate the energy that is required to support the services. Sandia staff will consider generation and storage options that are appropriate for the site and of interest to the community and determine the technical specifications, operating parameters, and costs for the options. Sandia will then perform a technoeconomic analysis to present a portfolio of options to the community that includes technical needs (e.g., surface area for PV installation) and capital and operating costs for the various options.

Deliverables

- Interim report

Risks

- Insufficient technical information on the performance of energy system options
- Insufficient information on services needed (how much food, how much water, type and scale of medical services)
- Disagreement on the significance of necessary tradeoffs (e.g. cost vs. performance vs. land use)
- Disagreement on optimal choices to support services

Activity 3: Microgrid Design Toolkit Analysis and Microgrid Conceptual Design

Description

Based on the subset of energy options chosen, Sandia staff will perform a detailed analysis to allow the community to understand tradeoffs between costs, emissions, performance, and land use. For this purpose, Sandia will use its Microgrid Design Toolkit, which provides Pareto-optimal frontiers representing the various metrics that will be used to determine the final system choices. The product of this exercise will be a conceptual design that allows an engineering consultant to select components and develop a full set of construction documents.

Deliverables

- Interim report

Risks

- A solution that meets the system objectives and satisfies all the constraints cannot be found
- Agreement on the relaxation of certain constraints is not reached
- Technical solutions of the appropriate size are not readily available

Activity 4: Communication of Outcomes

Description

Sandia and NREL will assist Hui o Hau’ula to communicate the findings from the analyses and the outcomes of the conceptual design to the community at large and to other stakeholders, including HECO and island emergency management services. This will be done via an in-person workshop conducted on site.

Deliverables

- Final report
- Community meeting

Risks

- Difficult to coordinate meeting date
- Lack of resources to organize and advertise meeting
- Failure to communicate effectively with community

Activities Summary

Activity	Responsible Parties	Deliverables	Timeline	Dependencies
Data Collection	SNL, +Lab, HNEL, HoH	Interim report	Beginning of project	Stakeholder engagement
Preliminary Analysis and Options	SNL	Interim report	Early Q2 of project	Data availability

Microgrid conceptual design	SNL	Final report	End of Q3	Data availability and community agreement
Communication of Outcomes – Public Meeting	Regional Partner	Community Meeting	After kickoff and before project close	Conceptual design outcomes acceptance
Communication of Outcomes – Final Materials	SNL, NREL	Report to DOE	At project close	Conceptual design outcomes acceptance
Project Management	NREL, HNEI, PNNL, HoH	Meetings to share project updates, progress, and receive feedback	Biweekly calls	Availability of parties involved

Project Schedule

Collect Data: Q1

Preliminary Analysis and options Q1-Q2

Microgrid Conceptual Design: Q3-Q4

Communicate outcomes: Q4

Ko'olauloa Community Resilience Hub

Phase I: Scope of Work

This Phased FEMA P-361 Safe Room for Hurricanes and Tsunamis project will design and construct the only community safe room on the windward North Shore of O'ahu in the town of Hau'ula. The location is central to the entire rural District of Ko'olauloa. This newly constructed P-361 Safe Room will also be out of the Flood and Extreme Tsunami Zones. There is no designated "shelter space" by the Department of Emergency Management (DEM) Services for almost 40 miles along this populated North Shore of O'ahu bounded by steep mountains and ocean. Also, all current designated shelters on Oahu are not resilient to withstand a Category One hurricane. The area of Koolauloa is accessible only by a single at-risk coastal highway. Unlike the continental U.S., there is little option to evacuate, even prior to a known event such as a hurricane approaching. Emergency shelter space on the island is limited and air travel to another location is challenging, especially for the most at-risk residents.

Phase I of the project, to develop all the technical and environmental information, including design has been completed in 2022-23 with local funding and much of the site clearing has been accomplished by volunteer efforts, cash and in-kind contributions. Phase 1 Engineering studies and permitting are still needed before seeking a full construction approval as Phase II. These Phase I efforts will include finalized costs, full benefit/cost analysis, environmental considerations, and other information with a sufficient level of detail to complete the construction with Phase II funding.

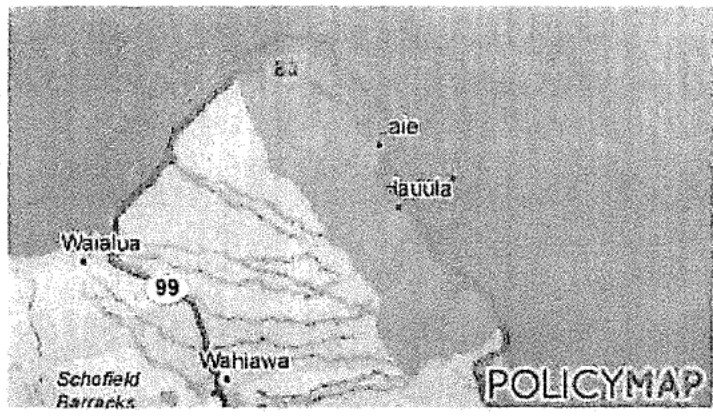


Figure 1: Ko'olauloa community area

Public Private Partnership Planning

The project will be managed through a lease and management agreement partnership with Hui O Hau'ula (HOH), a proven community partner. HOH is a tax-exempt 501(c)(3) nonprofit organization and a current partner of the City and County of Honolulu (City). This public-private partnership will ensure that critical capabilities such as feeding and basic medical care can be provided locally during an emergency event.

HOH is a current partner of the City for other efforts. Through a 5-year lease and management agreement with the City, HOH manages the day-to-day operations of the Hauula Community Center

including delivering programs in partnerships with many other non-profits such as daily feeding up to 300 families per week, early childhood programs, after-school programs, senior programs, youth programs, community college classes and workforce development services. This management agreement for the Community Center has enabled HOH to bring in many other partners and increase effectiveness. The Hauula Community Center is only suitable for “blue skies” delivery of services, due to its location in the Special Flood Hazard Area, tsunami evacuation zone, and hurricane storm surge zone at or above Category 2.

Planning and Community Buy-In

This project was generated and championed by the Hauula community. In addition to state and local government support, the project has numerous supporting partners ranging from other local nonprofit service organizations to private sector support including Verizon and local healthcare providers. The Ko’olauloa region includes six communities: Ka’a’awa, Kahana, Punalu’u, Hau’ula, Lā’ie, and Kahuku. Earlier this year, all six of the community associations signed a letter voicing their support for the project.

Years of planning work, which was featured as a best-practice example in the City’s OLA Resilience Plan, culminated in a series of design workshops in November 2020 as part of developing this proposal. The community-led workshops were conducted on November 13-14 and November 19-20, 2020 and featured both on-site and virtual attendance options. Over 80 people participated in the two weekend-long workshops. The workshops were supported by SHADE Institute, another nonprofit public interest design, as well as +LAB Architecture, a firm specializing in resilient design.

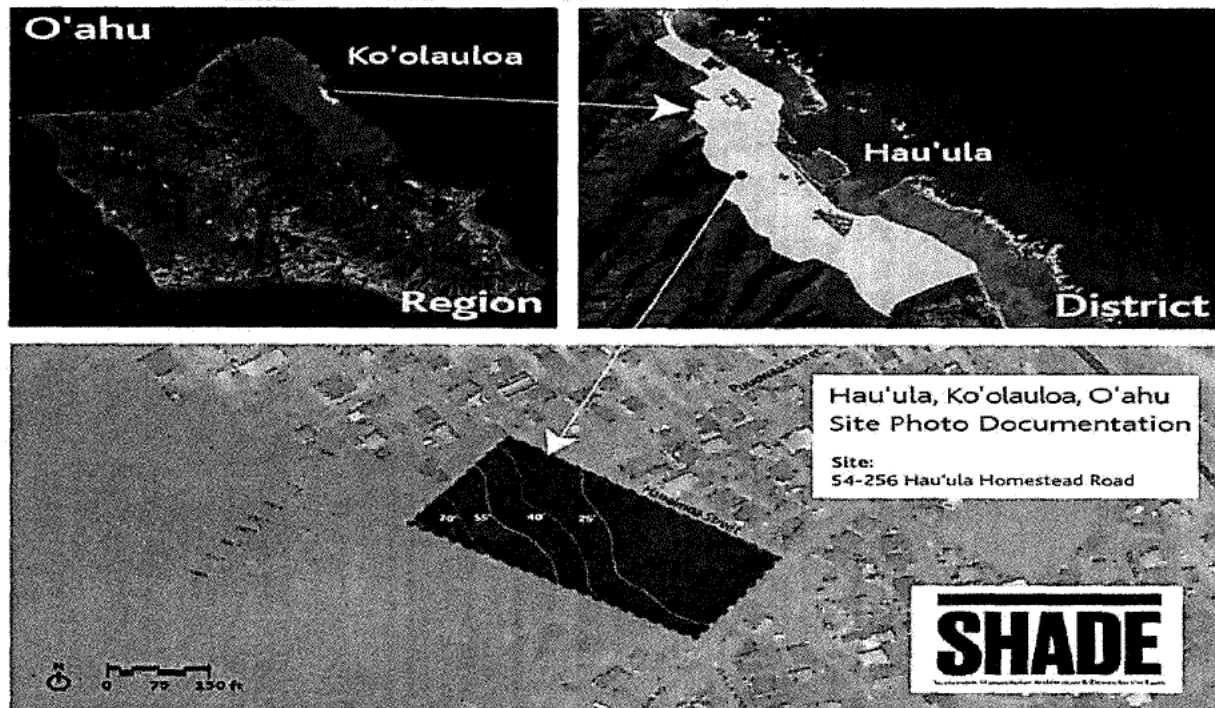


Figure 2: Proposed Community Safe Room site (provided by SHADE Institute)

Environmental Considerations

A partial Environmental Assessment of the site was performed in 2003 when the area was considered for development as a City fire station due to its location away from hazard areas. The City fire station was constructed elsewhere and the site, which is suitable for critical infrastructure, is currently vacant. Community-led efforts are underway to clean up the site in preparation for future use. Currently half of the five-acre site has been cleared and acts as a community park/playground with a walking trail for the local community and as a site for the Hauula Farmers Market every Saturday. Based on local knowledge, no environmental or historic issues are anticipated.

Connection to State and Local Hazard Mitigation and Related Plans

This project supports the goals of the LHMP, SHMP, and the City's OLA Resilience Plan Strategy.

City and County of Honolulu Pre-Disaster Multi-Hazard Mitigation Plan 2020 (LHMP)

In support of the LHMP, this project would help decrease the sheltering deficit on O'ahu. Chapter 17 of the LHMP is dedicated to describing the challenges and opportunities for Emergency Sheltering. This project supports LHMP *Action 35: Improve Shelters and Policies* by creating safe space in an area without any safe spaces and decreasing the sheltering deficit.

Action 35: Improve Shelters and Policies - Retrofit public shelter buildings to increase capacity, refine actual evacuation demand, and update City policies on evacuation to decrease sheltering deficit.

State of Hawai'i 2018 Hazard Mitigation Plan (SHMP)

For the SHMP, this project supports SHMP Action Honolulu-005 Long Term Congregate Care Shelters. The action seeks to decrease the sheltering deficit by creating long term congregate care shelters at public parks and recreation centers and gymnasiums. This would require hardening and retrofitting these facilities. There is no public park, recreation center or gymnasium facility available in the Ko'olauloa region, necessitating new construction to meet this need for this area.

Resilience Strategy

The efforts of the Ko'olauloa community are the featured story in the City's OLA Resilience Plan Strategy for Resilience Action 15 – Develop a Network of Community Resilience Hubs.

Benefit-Cost Analysis

A complete Benefit/Cost Analysis will be completed as part of Phase I.

Reasonableness of Project

The Ko'olauloa region has experienced significant growth, seeing an increasing population of over 200% between the 2000 Census and 2014-2018 estimates.¹ There are over 16,000 people living in the region. The region has one of the highest concentrations of Native Hawaiian and Pacific Islander populations in the state, with 23% of residents in the Ko'olauloa region overall and 52% in the town of Hauula identifying as Native Hawaiian or Pacific Islander.

Based on the conservative estimate in the shelter needs surveys and studies detailed in the LHMP, between 52% and 21% of residents would be expected to seek shelter in a public building for a hurricane event. Rounding the lowest estimate to 20% of residents, the Ko'olauloa region would need at least 3,200 shelter spaces based on the 16,000 population. Rounding the highest estimate to 50% of residents, the region would need 8,000 shelter spaces.

Emergency Shelter Needs Estimation	
Ko'olauloa Region Population	16,000
Lowest Estimated Shelter Need	20%
Ko'olauloa Minimum Shelter Need	3,200
Highest Estimated Shelter Need	50%
Ko'olauloa Maximum Shelter Need	8,000

At the next nearest designated shelter, there are only 317 total shelter spaces available. There are 1,316 shelter spaces available at Waialua High and Intermediate School, the nearest shelter in the opposite direction (see Figures 3 and 4, below). Accessing either of these shelters requires traveling the at-risk coastal Kamehameha Highway (SR-83). The private shelter on the nearby private university campus of Brigham Young University - Hawai'i has 540 spaces, but in addition to being located in a Special Flood Hazard Area, it is intended for student, faculty, and staff use only.

According to the SHMP, Hawai'i has approximately a 25% chance of being impacted by a hurricane event each year and a 3% chance of being impacted by a major hurricane event which results in a Presidential disaster declaration, based on historical data.² Given that climate change is increasing the frequency and severity of hurricane events and other storms, this number would likely go up using modeled or projected data.

Given a 50-year useful life for the community safe room, which is the standard timeframe for similar Tornado Community Safe Room (new construction)³, the community safe room would be expected to shelter residents at least a dozen times with a few of those being major disaster events.

¹ Attachment [X] – Community Profile (Kahuku to Kaaawa ZCTA)

² SHMP 2018, pp. 4-234 and 4-235

³ FEMA BCA Reference Guide 2009, Appendix D – Project Useful Life Summary

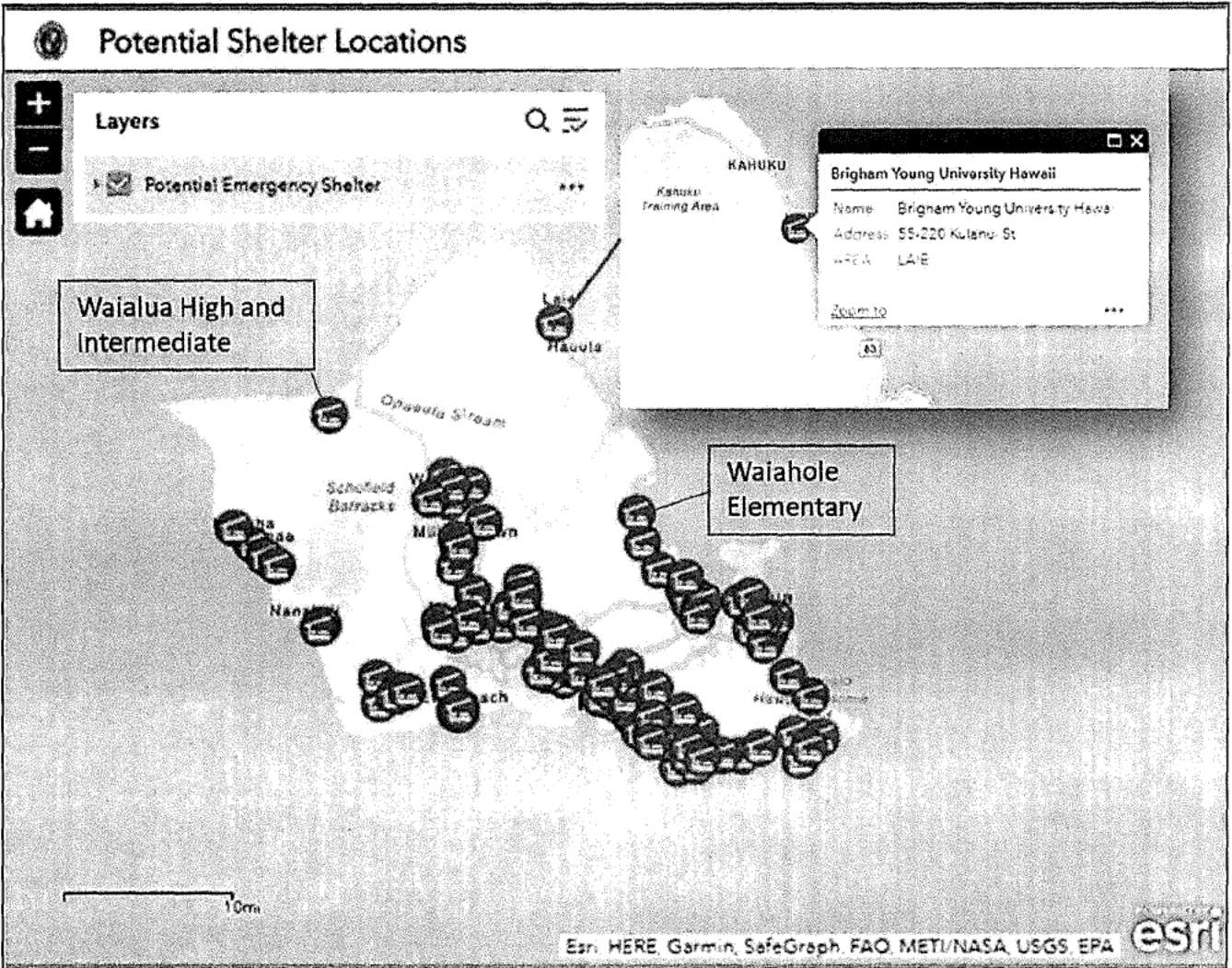


Figure 3: Potential Shelter Locations for O'ahu <http://www.honolulu.gov/site-dem-sitearticles/35734-hurricane.html>

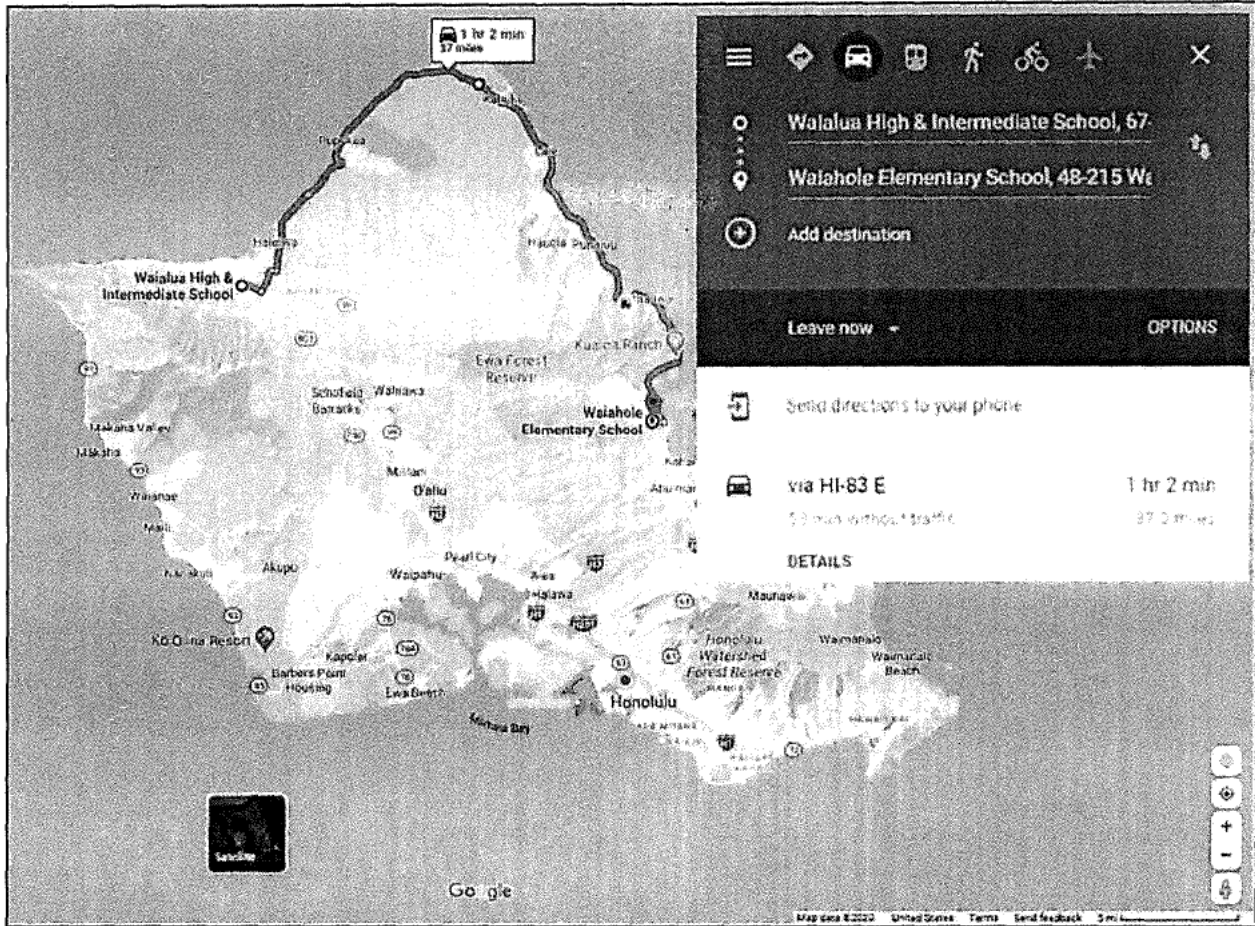


Figure 4: Distance between Potential Shelter Locations for Ko'olauloa area

Appendices (to be added)

- A. Site Information Materials (SHADE Institute)
- B. Community Workshop Materials (+Lab and SHADE Institute)
- C. Workshop Photos
- D. Excerpt from LHMP
- E. Resilience Strategy Excerpt
- F. Community Profile (Kahuku to Ka'a'awa)



Dotty Kelly-Paddock is an educator and community leader. She has a MA Degree in Education from University of Kentucky, worked as a special education teacher, school principal and assistant professor at the University of Kentucky and at San Francisco State University. She served on faculty for seventeen years at University of Hawaii at Manoa, Center on Disability Studies and spent twenty-five years working in the outer Pacific jurisdictions to create services for children with disabilities, working with families, school administrators and teachers. She's married and is the mom of an 18-year-old son. She's on the Ko`olauloa Neighborhood Board, President of the Hau`ula Community Association and Executive Director of Hui o Hau`ula, 501 c3 non-profit that has a license agreement with the City to manage services provided at Hau`ula Community Center. Kelly-Paddock created Hau`ula Emergency Leadership Preparedness (HELP) team in 2011 following the Tohoku earthquake and tsunami. Kelly-Paddock participated in the Honolulu City's OLA Resilience Planning process and authored Action 15 of the Oahu Resilience Plan: To develop a network of Community Resilience Hubs on Oahu. The City's OLA Resilience Plan names Hau`ula as the first model Resilience Hub. The Resilience Hub planning team includes: Illya Azaroff, AIA (+Labs), Mona Curry (Emergency Manager, LA City and County) James Oeillen (Construction Manager). G70 is contracted to complete the EA, and Design in 2023. HOH is also a recipient of technical assistance from US Department of Energy ETIPP project to assist with planning energy resources for the Ko`olauloa Community Resilience Hub.

Dorothy L. Kelly-Paddock M.A

P.O. Box 894
Hauula, Hawaii 96717
(808) 255-6944

EDUCATION

B.A., 1969, University of Kentucky, Lexington, Kentucky (Special Education), Certification:
Elementary 1-6; Mentally Retarded K-12

M.A., 1975, University of Kentucky, Lexington, Kentucky (Special Education), Certification:
Severely Emotionally Disturbed K-12

1977, University of Kentucky, Lexington, Kentucky, Education Administration

Educational Credentials

1969, University of Kentucky, Lexington, Kentucky. Certification: Elementary 1-6; Mental Retarded K-12.

1975, University of Kentucky, Lexington, Kentucky. Certification: Severely Emotionally Disturbed K-12

1976, University of Kansas, Lawrence, Kansas. Certification: Learning Disabilities

1979, California Administrative Services Credential

COMMUNITY SERVICE

Hauula Community Association, President/Vice President, 2009-Present

Koolauloa Neighborhood Board, Representative for Hauula, 2009-2012

Hauula Hoolauloa, Co-Coordinator, 2017-Present

Koolauloa Kupuna Club, Congregate meals and activities program, Coordinator, 2016-Present

Hui O Hauula, 501c3 non-profit, Executive Director, 2014- Present

Hawaii Conservation Alliance, Watershed Snapshot, 2014-2016

Castle Foundation, Windward Aina-Based Education Hui, 2015-Present

North Shore Ocean Fest @ Turtle Bay Resort, Coordinator, 2012-Present

Grants Written and Funded

NOAA B-WET Grant, Hauula Watershed Xplorers, 2017-2018

Hoopono Koolau Loa Community Foundation, Grant May 2017

Harold Castle Foundation, CIP grant, 2016-2017

NOAA B-WET Grant, Watershed Detectives, 2014-2015

NOAA B-WET Grant, Watershed Detectives, 2013-2014

Hawaii Community Foundation Small Flex Grant, 2015-2016

Turtle Bay Foundation, 2013, 2014, 2015

Honolulu City and County Grant in Aid, Malama Koolauloa, 2013-2014

Honolulu City and Country, Grant in Aid for Emergency Preparedness, 2013-2014

PROFESSIONAL EXPERIENCE

Grants Written and Funded

FSM Secondary Transition Training and Technical Assistance Program

Community Parent Resource Center, American Samoa, Center for Families of Individuals with
Developmental Disabilities (CFIDD)

Family Support Center 360 Grant , Commonwealth of the Northern Mariana Islands, Developmental

Disabilities Council PREP

21st Century Community Learning Center, Pohnpei State Department of Education, FSM
Family Support Alliance Project- American Samoa, American Samoa Community College
Family Support Alliance Project- Commonwealth of the Northern Mariana Islands, Developmental Disabilities Council
Pacific Outreach Partnerships for Parent Empowerment (POPPE) , Kosrae Community Parent Resource Center, FSM
Pacific Outreach Partnerships for Parent Empowerment (POPPE), Pohnpei Special Parent Network, Parent Training and Information Center
Related Service Assistant Mentorship Program, National Education Department, Federated States of Micronesia
Related Service Assistant Personnel Prep Project
PICES Project

Employment History

1993 - 2009; Project Director, University Center of Excellence (UCE), for American Samoa, and the Commonwealth of the Northern Mariana Islands
1992 - 2000; Project Coordinator, National Early Childhood Technical Assistance System (NEC*TAS),
1992 – Present: Director, Pacific Basin Deaf- Blind Training and Technical Assistance Project
1992- 2009 – Pacific Outreach Initiative (POI) Coordinator, Center on Disability Studies- Faculty member, University of Hawaii, Manoa
1991 - 1992; Lecturer, Educational Leadership Dept., California State University, Hayward, CA
1988 - 1992; Technical Assistance Coordinator, California Research Institute on the Integration of Students with Severe Disabilities, San Francisco State University, CA
1989 - Present; Technical Assistance Coordinator, Pacific Basin Deaf-Blind Project, San Francisco State University, CA
1984 - 1988; Technical Assistance Coordinator, TASH Technical Assistance Project, Southwest Region, San Francisco State University, CA
1983 - 1984; Program Evaluation Specialist, Contra Costa County Superintendent of Schools Office, Pleasant Hill, CA
1980 - 1983; Program Administrator, Comprehensive Education Program for Emotionally Disturbed/Behaviorally Disordered Children, Contra Costa County Schools Superintendent of Schools Office, Pleasant Hill, CA
1979 - 1980; Coordinator, Staff Development, Contra Costa County Superintendent of Schools Office, Pleasant Hill, CA
1977 - 1979; Master Plan Staff Development and Instructional Services Specialist, Contra Costa County Superintendent of Schools Office, Pleasant Hill, CA
1977 - Assistant Professor, University of Kentucky, Dept. of Special Education, Lexington, KY
1974 - 1977; Instructor, University of Kentucky, Dept. of Special Education, Lexington, KY
1973 - 1974; In-Field Evaluator, Practice What You Preach, University of Kentucky, Department of Special Education, Lexington, KY
1970 - 1973; Supervising Teacher, University of Kentucky, Lexington, KY
1972 - Teacher, Educable Mentally Handicapped, Summer School Program, University of Kentucky, Lexington, KY
1971 - Teacher, Educable Mentally Handicapped, Summer School Program, Bluegrass School, Fayette County Schools, University of Kentucky
1969 - 1973; Teacher, Educable Mentally Handicapped, Fayette County Schools, Lexington, KY

PUBLICATIONS

- Servatius, J.D., Fellows, M., & Kelly, D.L. (1992). Preparing leaders for inclusive schools. In R. Villa, J. Thousand, W. Stainback, & S. Stainback (Eds.), Restructuring for caring and effective education: An administrative guide to creating heterogeneous schools. Baltimore: Paul H. Brookes.
- Kelly, D.L. (1978). Using videotapes to evaluate student teaching performance. Journal of Teacher Education and Special Education, Spring.
- Berdine, W.H., Cegelka, P.T., & Kelly D.L. (1977). Practica evaluation: A competency based teacher evaluation system. Education and Training of the Mentally Retarded, December.
- Berdine, W.H., & Kelly, D.L. (1977). Certification programs in trainable mentally handicapped. Exceptional Children, April.

- McLoughlin, J.A., & Kelly, D. (1977). Resource teachers: Their problems. Journal of Learning Disabilities, August.
- Tawney, J.W., Cruse, C., Cegelka, P.T., & Howard, V. Kelly. (1977). Instructional programming is not... A sequel. Teaching Exceptional Children.
- Berdine, W.H., Cegelka, P.T., & Howard, D. Kelly. (1976). Student teacher performance rating scale: A competency-based teacher assessment instrument. Education and Training of the Mentally Retarded, June.

PRESENTATIONS/CONSULTATIONS

- Lead Project : Principals Certification Program, Pohnpei Department of Education, 2004
- Bridges Project: Transformation Plan for PICS High School into Smaller Learning Communities, 2004
- Pohnpei Teach Certification Program, Pohnpei Department of Education, Federated States of Micronesia 2003-2004
- Kosrae Teach Certification Program, Kosrae Department of Education, Federated States of Micronesia, 2000-2003
- Transformation Plan for the Kosrae Department of Education, Federated States of Micronesia, 97-98
- School and Community Vision-Crafting, Koarae Department of Education, Federated States of Micronesia, January, 1997
- Making Schools Work For All Kids, Presentation, Missouri Full Inclusion Conference, Land Between the Lakes, MO, February 1992.
- Full Inclusion in the 90's: The Leadership Challenge, Class Presentation, Educational Leadership Department, California State University, Hayward, CA, February 1992.
- Full Inclusion for Students With Severe Disabilities, Presentation to the LRE Task Force, Burlingame School District, Burlingame, CA, January 1992.
- Schools Are For All Kids, Overview, San Ramon Unified School District, San Ramon, CA, January 1992.
- Full Inclusion, Presentation to the Missouri 94-142 Task Force, Jefferson City, MO, December 1991.
- Schools Are For All Kids, Overview Presentation, Pacific Region Educational Lab Conference, Majuro, Republic of the Marshall Islands, July 1991.

Serving All Students in Local Comprehensive Schools, Presentation, Midwest Special Education Administrators' Summer Conference, Breckinridge, CO, June 1991.

Integration of Students with Severe Disabilities, Coordinated school site visits to Hawaii State to Central and Windward Districts for a parent and professional team from Republic of the Marshall Islands, May 1991.

Schools Are For All Kids, Overview Presentation, California TASH Conference, April 1991.

Schools Are For All Kids, Overview Presentation, Association for Supervision and Curriculum Development Conference, San Francisco, CA, 1991.

Restructuring Schools in the 90's, National Association of State Directors of Special Education, 53rd Annual Meeting, San Diego, CA, November 1990.

Schools Are for All Kids: The Leadership Challenge, Association for Supervision & Curriculum Development (ASCD) National Restructuring Schools Consortium Meeting, October 1990.

Statewide Systems Change Strategies to Support the Integration of Students with Disabilities, Special Education Small States Conference, August 1990.

Full Inclusion of Students with Severe Disabilities, New Mexico Special Education Summer Institute, August 10, 1990.

"Are You the Instructional Leader For All Kids?," New Mexico, Santa Fe Public Schools, August 9, 1990.

Full Inclusion: The Challenge of the 90's, Roswell, New Mexico, August 8, 1990.

System Change Strategies to Support Full Inclusion of Students with Severe Disabilities, South Central Regional Multi-State Deaf-Blind Center, June 20 & 21, 1990.

Full Integration in the 1990's: The Leadership Challenge, Placer/Nevada Inservice Day, March 12 ~ 13, 1990.

Administration and Systems Change Strategies to Support LRE, Region J Coordination Council Winter Conference, January 19, 1990.

Statewide Systems Change Strategies to Support the Integration of Students with Severe Disabilities, National Association of State Directors of Special Education, 52nd Annual Meeting, Louisville, KY, November 1989.

Presentation on Statewide Systems Change Strategies to Support the Inclusion of Students with Disabilities in the Least Restrictive Environment, Northeast Regional Resource Center, Conference for State Departments of Education (CT, ME, MA, NH, RI, VT), September 15 & 16, 1989.

Consultation and Coordination of the Mid South LRE Practices Workshop, September 11 & 12, 1989.

Consultation on Full Inclusion of Students with Severe Disabilities in Regular Schools and Classrooms, Richmond USD, August 28, 1989.

Consultation on Integration of Students with Severe Disabilities, Illinois SDE, August 22 and 23, 1989.

Consultation with William Anton and LRE Committee, Los Angeles Unified Schools District, July 26, 1989.

Consultation on Program Planning to Meet the Needs of Students with Severe Disabilities in the Regular Classroom, Colorado SDE, July 18 & 19, 1989.

Consultation and Conference Presentation, Educating Handicapped Students in the Least Restrictive Environment, Maryland SDE, May 11 & 12, 1989.

Integration of Students with Severe Disabilities, Belem School District, Belen, New Mexico, April 20 & 21, 1989.

Consultation in Policy Development on LRE, Illinois SDE, March 5, 1989.

Options Available for New Mexico through Statewide Systems Change, New Mexico State Department of Education, February 17, 1989.

Students with Severe Disabilities in Transition Challenges, New Mexico State Department of Education, February 16, 1989.

Consultation on Development of State Policy on LRE, Illinois SDE, September 17 & 18, 1988.
Research and Technical Assistance to Support the Integration of Students with Severe Disabilities,
National Association of State Directors of Special Education, 51st Annual Meeting, Minneapolis,
MN, 1988.
The California Research Institute on the Integration of Students with Severe Disabilities, National
Association of State Directors of Special Education, 50th Annual Meeting, Phoenix, AZ, 1987.
Communication Techniques for Parents and Professional Educators (Parent Tech Project), Mt. Diablo
Unified School District Parent Group, 1980.

Computer Based IEP Support System, International Council for Exceptional Children (CEC)
Conference, 1980

Master Plan Community Advisory Committee Functions, California State Department of Education,
Sacramento, California, 1978.

Master Plan Implementation, Richmond Unified School District, Richmond, California, 1978.

Individual Education Program Planning/Instructional Based Appraisal System (college credit course),
Kern County Schools, Bakersfield, California, 1978.

Assessment and IEP Planning for the Severe Language Impaired, Kern County Schools, Bakersfield,
California, 1978.

Individual Education Program Planning/Instructional Based Appraisal System, Intermediate Resource
Center, Wapakoneta, Ohio, 1978.

Individual Education Program Planning/Instructional Based Appraisal System, Intermediate Resource
Center, Cincinnati, Ohio, 1978.

Individual Education Program Planning/Instructional Based Appraisal System, Intermediate Resource
Center, Hillsboro, Ohio, 1978.

Individual Education Program Planning/Instructional Based Appraisal System, Union Intermediate
Resource Center, Bowling Green, Ohio, 1977.

Contingency Management in Secondary Education, Tates Creek Senior High School, Fayette County
Public Schools, Lexington, Kentucky, 1977.

Mainstreaming, Fayette County Public Schools inservice, Lexington, Kentucky, 1977.

Writing IEPs: Instructional Based Appraisal System, Monroe County Special Education Division, Key
West, Florida, 1977.

Instructional Programming, Pennsylvania Materials Center, Harrisburg, Pennsylvania, 1977.

Instructional Based Appraisal System, University of Texas, El Paso, Texas, 1976.

Special Education, Mercer County Public Schools, Harrodsburg, Kentucky, 1975.

PROFESSIONAL MEMBERSHIPS

The Association for Supervision and Curriculum Development

The Association for Persons with Severe Handicaps

Association of California School Administrators

Council for Exceptional Children: Teacher Education Division

Council for Exceptional Children: Division for Children with Learning Disabilities, Councils for
Children with Behavioral Disorders, and Council for Administrators of Special Education

Council for Exceptional Children, Educable Mentally Retarded Division

National Education Association



Mona Curry

Experience includes 28 years of services with the City of Los Angeles. Her last assignment was with the Los Angeles Police Department (LAPD) in Operations Valley Bureau where she worked on strengthening the Bureaus Emergency Management and Homeland Security plans and procedures including the co-development of the LAPD's Active Shooter Program. Mona retired from the City in April 2021.

Mona formerly worked with the Federal Emergency Management Agency (FEMA) as a Division Supervisor in Operations responding to disasters across the nation. As a Division Supervisor Mona deployed to impacted areas to work with county jurisdictions, emergency management, law enforcement and fire agencies to guide them in response and recovery from disasters with the objective of helping them and their communities return to normal operations as quickly as possible.

Mona also serves on the Advisory Council for the State of Hawaii Emergency Management Agency (HI-EMA) representing the island of Oahu.

James Oellien

Professional Background:

James is a third generation general contractor and have been involved in the construction management and design build contracting industry for 43 years, having managed large DOD housing projects and private sector commercial projects. James was one of the original "Light Gauge Steel" Contractors here in the Hawaiian Islands and his projects where nationally recognized for design and use of light gauge steel. James has built or managed the construction of over 750 light gauge steel homes, 526 condominium units over 4 separate projects and has completed over 255,000 square feet of commercial warehouse and building space.

James is currently employed by Metcalf West, LLC as a Project Manager and has managed projects for Terry Metcalf for the last 23 years, and they continue to have a great working relationship together. James was responsible for the establishment and the operations of the first onsite truss and wall panel manufacturing plant to increase the efficiency of rough framing phases of Metcalf's production housing. Reducing costs to the customers, and improve the quality of the framing and trusses for residential buildings. In addition I was the primary point of contact for Partnering, Conflict Resolution, and Contract Negotiations, Equal Employment Opportunity, Affirmative Action and Small Business Utilization Plan administration for MW, LLC.

James' experience consists of a strong emphasis on construction project management which included civil work, underground utilities, and building construction projects of varied types and complexity that includes hotels, shopping malls, office buildings, multifamily housing, design-build residential and commercial projects and cost and schedule control.

James is also a consultant to HCA International as a expert witness and Construction Manager, specializing in construction defects litigation and commercial insurance claims negotiations.

Professional Experience:

Current

❖ **Managing Member, ▪ Kualoa Builder's, LLC**

- Construction Management
- Cost Control (from concept to completion)
- Primary Clients:

Metcalf West, LLC

Green Homes Hawaii, LLC

MC Contracting, Inc

Description: Provide development coordination and construction management of existing projects. Contract negotiation, design development and review for build ability and cost control.

Current Contracts:

MCW – PM - Mililani Mauka Veterinarian Clinic – 4000 sqft state of the art Veterinarian Clinic with surgery room and on site lab – Turn over 1/2020

Green Homes Hawaii – CM - 40th Floor of Century Center – Graduate Student Housing – 24 room ADA compliant student housing – Development and Construction Manager – completion slated for August of 2020

MCC – CM – Rock Cliff Manor – Assisted Living Facility – 22,000 sqft facility – construction slated to begin March 2020.

- Expert Witness & Consultant on Construction Deficiencies and Remedy
- Primary Clients:

Herb Chock & Associates

AIG Hawaii

Description: Provide inspection and documentation reporting for trial prep and Insurance Claim disputes, expert testimony and opinion, dispute resolution.

Areas of Expertise:

Concrete & Steel Construction and Repair

Structural Framing

Moisture and Waterproofing

Contact and Cost Control Review

Past Project Highlights

❖ **Managing Member/RME, ■ Oellien Pacific, LLC (OP)**

- Project: **Kapolei Inline Hockey Arenas**
- Performance Period: November 2008 to April 2010
- Contact: Richard Pentecost
- Cost of Contract: \$7.3M
- Description: Construction of twin regulation size hockey arenas, housed in a 52,000 square foot building. Snack Bar, 8 Locker Rooms, offices bathrooms and Pro Shop. The project included construction from the site work through to completion of the pre-engineered metal building.
- Special Achievements:
 1. Mr. Oellien was able to value engineer the project from the bid price of 8.8 million to the contract sum of 7.3 million.
 2. The project was completed with zero accidents.

- ❖ **Managing Member/RME, ▪ Oellien Pacific, LLC (OP)**
 - Project: **Kapolei Kai Warehouse Condominiums**
 - Performance Period: April 2007 to February 2009
 - Contact: Daimon Hudson
 - Cost of Contract: \$3.7M
 - Description: Kapolei Kai was a Design Build project consisting of a 33,000 square foot warehouse split into 10 condominiums. The project included construction from the site work through the completion of the pre-engineered metal building.
 - Special Achievements:
 1. The Design Build Contract included new corporate offices and a state of the art roasting and storage facility for the Anchor Tenant Hawaiian Paradise Coffee (HPC).
 2. The Building's Certificate of Occupancy coincided with the Commissioning of HPC facility.
 3. The project was completed with zero accidents.

- ❖ **Project Manager, ▪ Metcalf Construction Company, Inc. (MCCI)**
 - Project: **Marine Corp Base Hawaii 212 Housing,**
 - Performance Period: August 2003 to December 2006
 - Contact: MCBH ROICC
 - Cost of Contract: \$50M
 - Description: Construction of 212 residential Duplex units to house enlisted families. The project included construction from the site work through to completion of the residential units. Mr. Oellien was brought in as the Project Manager 12 months after the start of construction. The project was behind schedule due to expansive soils not disclosed at the time of bid. The sitework had stalled and the contract buy out had not been completed before the vertical construction started. The working relationship with the Government was adversarial and the Contract was in jeopardy.
 - Special Achievements:
 1. Mr. Oellien spearheaded a redesign of the concrete slabs to "Post Tension" that was approved by the Government and was developed to permit turnover of the buildings earlier than scheduled thereby permitting early occupancy.
 2. The project was completed with zero accidents.

- ❖ **Project Manager, ■ Metcalf Construction Company, Inc. (MCCI)**
 - Project: Waikoloa Time Share Units,
 - Performance Period: March 2002 to August 2003
 - Contact: Stanford Carr Development
 - Cost of Contract: \$30M
 - Description: Construction of 168 residential units to be sold as time share units.
The project included construction from the site work through to completion of the residential units.
 - Special Achievements:
 1. The project schedule was developed to permit turnover of the buildings earlier than scheduled thereby permitting early occupancy.
 2. The project was completed with zero accidents.
 3. There were no significant change orders required. Value engineering efforts paid off for the customer as well as the contractor.

- ❖ **Project Manager, ■ MCCI**
 - Project: Kapolei Marketplace
 - Performance Period: January 2002 to December 2002
 - Contact: Greg Kreizenbeck
 - Cost of Contract: \$8M
 - Description: Construction of a shopping center including 70,000 square feet of retail space resulting in 37 stores. Managed the project to ensure the highest level of quality, completion on schedule, and within budget. The shopping center stores were completed early and occupancy was accomplished earlier than scheduled.
 - Special Achievements: The occupancy of the stores earlier than scheduled increased the revenues for the owners.

- ❖ **Project Manager, ■ MCCI and Honsador Lumber Co.**
 - Project: Development and Construction of a wood truss and panel plant
 - Performance Period: October 1998 to July 2001
 - Cost of Contract: \$30M
 - Description: The plant was developed and constructed to support construction projects in the area. The plant primarily supported the Kona Hawaiian Village residential time-share project. Development and construction of the plant was a first for Kona, Hawaii and provided the community an example for efficiency and cost reduction.

- *Special Achievements:*
 1. The site plant offered an example for efficiency and cost reduction for the community.
 2. The cost reduction benefited the Kona Hawaiian Village project as well as other projects in the area.
 3. Operations of the plant resulted in zero accidents.

Education:

High School - Graduated Santa Fe High School 1974

PM and CM Certifications

Industry Related –

First Aid and CPR Certifications

OSHA 40 hour Course Certified

PMPI - Project Management - member in good standing since 2007

CMAA – Construction Management – member in good standing with CMAA since 2019

Computer literate - Word, Excel, Microsoft Project, Suretrac/P3 scheduling and various job costing programs.

First Aid and CPR certified

Interests:

Navy League member since 1994

Golf, Gardening, Fishing and Hunting

References:

Terry Metcalf - CEO, Metcalf West, LLC - 808-960-3777

Daimon Hudson - Manager, Kapolei Kai - 808-864-3730

Herb Chock – CEO, Herb Chock & Associates – 808-375-9399

RESUME
Michael Epp
PO Box 959, Hauula, Hawaii, 96717
(808) 382-1231, michaeljohnnepp@gmail.com

Experience:

- 08/15 - present **Collaborative Projects Coordinator, Kokua Kalihi Valley.** Oversees cross-cutting initiatives for a 330 Community Health Center in Honolulu Hawaii, including education, research, leadership development, planning, policy, and organizational and community development.
- 11/13 – present **Independent Consultant, Honolulu, Hawai'i -** Recent projects include: 1) technical support for the submission of 330 CHC grant for Chuuk State Department of Health Services, Federated States of Micronesia (award notice date Dec 2016 or Jan 2017); 2) technical support and development of successful community health center public entity 330 CHC grant for the State of Kosrae, Federated States of Micronesia and the Pohnpei Community Health Center; 3) technical support for Kahuku Medical Center for the startup of a new community foundation for Ko'olauloa area; and 4) twelve month engagement strengthening fund development, student programs, research infrastructure, communications, and management structure at Kokua Kalihi Valley Comprehensive Family Services, a community health center with a \$14 million annual budget.
- 03/07 – 10/13 **Executive Director, Pacific Island Health Officers Association –** Oversaw non-governmental organization that provides technical assistance, training and policy support to government health agencies in the six United States Affiliated Pacific Islands of Guam, the Commonwealth of Northern Mariana Islands, American Samoa, Republic of Palau, Republic of the Marshall Islands, and the Federated States of Micronesia (Yap, Chuuk, Pohnpei, and Kosrae). PIHOA had a \$2 million annual budget and nine staff who work from three locations in Honolulu, Palau and Guam. It was funded by dues from its member jurisdictions and grants and contracts from US and international health agencies and development partners.
- 05/05 to 03/07 **Independent Consultant, Honolulu, Hawai'i –** Projects include the strategic plan for the University of Hawai'i School of Social Work; community, concept, and grant development for Lana'i Community Health Center; drafting of the Pacific Fundraising Guide for Primary Care (in process) for the Pacific Islands Primary Care Association; technical assistance and training in board development, health center requirements, and grant writing for Wa'ab Community Health Center in Yap State, Tafuna Family Health Center in American Samoa, and Ebeye Community Health Center in the Republic of the Marshall Islands; and meeting coordination and facilitation for the Pacific Basin Dental Association and the Pacific Islands Primary Care Association.
- 09/01 to 05/05 **Community Services Director, Hawai'i Primary Care Association, Honolulu, Hawai'i –** Assisted in the planning, community-development, funding, and start-up of four new community health centers in the State of Hawai'i; designed and managed statewide networking, training and mentoring programs for behavioral

health professionals, nutritionists, human resource coordinators, chief financial officers, MIS specialists, dentists, grant writers and executive directors from eleven community health centers; wrote communications plan for Hawai'i Primary Care Association; staffed the startup of the Pacific Islands Primary Care Association; assisted Yap State with securing 330 community health center funds; provided technical assistance and training in board development, grant writing, and health center requirements in Palau, FSM (Kosrae, Pohnpei and Yap), RMI, and CNMI.

- 12/99 to 02/01 **Coordinator of Programs, Kokua Kalihi Valley, Honolulu, Hawaii –**
Responsible for improving outcomes in sixteen program areas for 330 Community Health Center serving low-income, immigrant, and Asian and Pacific Island population. Program areas include medical, dental, behavioral health, family planning, WIC, perinatal, youth services, elderly services, legal services, transportation and outreach. Responsibilities include all areas of program development.
- 01/92 to 12/99 **Development Officer, Kokua Kalihi Valley –** Wrote all grants and proposals for 330 Community Health Center with a \$4 million budget and eighty staff; primary staff person for successful \$6.2 million capital campaign.
- 02/91 to present **Freelance grant writer –** Continue to assist both non-profit and for-profit agencies with developing grants and proposals for health and human and capital projects. Clients include AlohaCare, a Medicaid HMO (successful proposal to provide dental services for the state); Child and Family Services, the largest social service agency in Hawai'i; Ke Ola O'Hawai'i (wrote successful competitive proposal for Area Health Education Center in 1998); and several Hawai'i-based community health centers.
- 01/91 to 12/91 **Legislative Aide, U.S. Senate Committee on Labor and Human Resources –**
Assisted with coordinating hearings on federal education initiatives, including child care and Head Start, teacher training, and the National and Community Service Act. Assisted in coordinating a successful advocacy campaign to pass the 1989 National and Community Act in the House of Representatives.

Other Experience

- 2005 to 2009 **Board Member, Kokua Kalihi Valley Board of Directors, Honolulu, Hawai'i (volunteer) –** Served on the Board of Directors of a community health center with 125 employees, six locations, and a \$9 million budget; served as president, vice president and treasurer.
- 2006 to 2009 **Free Lance Trainer, Non-Profit Board Governance, Hawaii Association of Non-Profit Organizations –** Trained a variety of nonprofit and non-governmental organizations in the regulations, principles and best practices of Board Governance.

2007 **Facilitator, Kahuku Hospital Project (volunteer)** – Spearheaded community group focused on supporting, and developing effective strategies for retaining Critical Access Hospital in danger of bankruptcy and closure.

1995 to 2006 **Grant Reviewer, Bureau of Primary Health Care, Washington D.C.** – Served on grant review committees for the Bureau of Primary Health Care, Health Resources and Services Administration, for new Access Point Community Health Center program (four times); Expanded Medical Capacity for Community Health Center Program (two times); and the Integrated Services Delivery Initiative, a Federal effort to vertically and horizontally integrate state-wide primary health care networks that serve low-income populations.

Education

University of Pennsylvania, English

Joshua T. Ream, Xíxch'i Toowóo*

*Means "Frog Feelings" or "Caring for Frogs" and was given by the late Tlingit elder Marge Byrd during my honorary adoption into the Kiks.adi Clan of the Shtax'héen Kwáan at Wrangell, Alaska in 2015

Curriculum Vitae

54-019 Ahinalu Place, Hau'ula, HI 96717
(808) 688-7191; AKFrogDr@gmail.com

PROFESSIONAL ASPIRATIONS:

- To manage challenging and dynamic Federal conservation units
- To lead a diverse interdisciplinary team in the management of natural and cultural resources on Federal public lands.
- To apply compassionate leadership and emotional intelligence in supporting departmental mission and team objectives.

EDUCATION:

Ph.D. in Ethnobiology (Interdisciplinary Studies). University of Alaska Fairbanks (Conferred May 8th, 2016). Advisor: Andres Lopez (jalopez2@alaska.edu)

M.S. in Biology. Austin Peay State University (Conferred December 12th, 2008). Advisor: Floyd Scott (Deceased)

B.S. in Animal Sciences (Minor in Wildlife & Fisheries Science). Pennsylvania State University - University Park Campus (Conferred December 22nd, 2006). Advisor: Phillip Clauer (pclauer@psu.edu)

RELATED EMPLOYMENT EXPERIENCE:

October 2021 – Present. **Project Leader / Wildlife Refuge Manager** (GS-13). Full-time Permanent. Total Annual Salary \$104303. National Park Service (NPS) – FWS Region 1.

Address:

U.S. Fish and Wildlife Refuge
Oahu National Wildlife Refuge Complex
James Campbell National Wildlife Refuge
PO Box 429
Kahuku, HI 96731

Supervisor: Ricardo Lopez (808-321-2598)

- In this position I oversee seven refuge units encompassing over 6500 acres on three of the Main Hawaiian Islands – Oahu, Maui, and Molokai. These include three five coastal wetland units for the protection of endemic endangered waterbirds, seabirds, shorebirds, Hawaiian Monk Seals, and Hawaiian Green Sea Turtles, one coastal strand unit for the protection of two

endemic endangered plant species, and one montane forest refuge for the protection of endemic endangered Hawaiian tree snails. The complex consists of James Campbell National Wildlife Refuge (NWR; 3 units), Pearl Harbor NWR (1 Unit), Oahu Forest NWR (1 Unit), Kealia Pond NWR (1 Unit), and Kakahaia NWR (1 Unit).

July 2019 – September 2021. **Regional Subsistence Program Manager** (GS-13). Full-time Permanent. Total Annual Salary \$106481. National Park Service (NPS) – DOI Region 11.

Address:

National Park Service
240 W. 5th Ave.
Anchorage, AK 99577

Supervisor: Debora Cooper (907-350-6577)

- As the regional program manager for NPS' subsistence program I was responsible for agency compliance with novel legislation such as the Alaska National Interest Lands Conservation Act (ANILCA) and the Alaska Native Claims Settlement Act (ANCSA), among other statutory and regulatory mandates. Central to this is an understanding of how these legal mandates overlay on one another, and how Congress' intent can be most effectively implemented in Federal conservation units. I worked closely with NPS' regional leadership, and with the Federal Subsistence Management Program, to develop, analyze, publish, and implement harvest regulations across the State, and in some cases, across the country.
- I planned, directed, and evaluated all aspects of the Federal Subsistence Management Program's (FSMP) wildlife and fisheries regulatory program, and I developed long and short-term management plans, both for my agency and that of the broader FSMP. Many of the regulatory decisions within the program are complex, controversial, and sensitive. I was known as an expert in navigating these complexities and sensitivities, in identifying alternatives, and in understanding a diverse array of perspectives and stakeholder interests. As an interdisciplinarian I sought to understand the biological effects of resource management decisions, as well as the equally important human dimensions of resource management, which I believe are critical to effective conservation efforts.
- Analysis of anticipated effects of regulatory proposals to change fish and wildlife harvest regulations was the cornerstone of this position. I worked with interdisciplinary technical experts from a variety of Federal and State agencies to understand the condition of harvestable resources and the effects of consumptive use, in compliance with ANILCA and agency mission. I served as a senior technical advisor to the NPS Alaska Regional Director and I worked closely with the Solicitor's Office to inform regulatory decisions and to implement effective management strategies.
- Due to budgetary restraints, attrition, and competing priorities, NPS' regional subsistence program had been reduced from ten individuals in the early 2000s, to a single individual in 2019. Regional leadership recognized the resulting deficiencies and committed to reviving the program, beginning with my hire. I recruited and hired a diverse team of four interdisciplinary biologists and cultural anthropologists within the regional program, and I organized field-based resource managers to provide regular input in statewide planning processes. I worked closely with and supervised both professional and nonprofessional personnel. NPS has since been recognized as providing exceptional leadership within the Federal Subsistence Management Program.

- In addition to navigating complex hiring processes and budgets for fulltime employees, I also volunteered to temporarily supervise employees from other programs, and I hired temporary subordinate detailees. While I am known to be especially diligent in hiring best fit individuals, I effectively navigated sensitive personnel issues, including behavioral challenges and health and safety concerns.
- I have been dedicated to diversity and inclusion in the workplace, meeting and exceeding EEO standards, and in providing for an appropriate work-life balance within my team. I consider myself a compassionate and emotionally intelligent leader, and I navigated personnel issues with sensitivity and tact, in accordance with the values identified in my personal leadership philosophy. I strive to recognize disciplinary, cultural, ethnic, spiritual, and other forms of identity, and the ways in which diverse perspectives can inform development of better processes and procedures. I was an active member of NPS' LGBTQ Employee Resource Group (ERG).
- I directly managed a regional program budget of approximately \$1,000,000, including oversight of approximately \$400,000 in competitive research funding. I indirectly managed NPS' statewide subsistence budget of approximately \$2.2 million dollars. I am proficient with large budgets and I chaired interagency efforts, at the direction of the Federal Subsistence Board, to report on and provide greater transparency in the subsistence budgets of the board's representative agencies.
- Working with tribal and rural partners is integral to the success of the subsistence program and I have established strong working relationships with a multitude of stakeholder groups. I formulated NPS' involvement in the Partners for Fisheries Monitoring Program, I have worked with tribes to implement novel community harvest opportunities, and I have established many cooperative agreements with rural organizations. These agreements provided NPS with expanded research and logistical capacity, they support cultural programming, and they serve to document subsistence harvest needs throughout the state. I was an Agreements Technical Representative (ATR) assigned to many of these projects and I also worked closely with Cooperative Ecosystem Study Units (CESUs) to identify shared research interests and priorities.
 - Working with tribes, tribal organizations, and Alaska Native corporations is central to the operations of the Federal Subsistence Management Program, and those of NPS specifically. I participated regularly in meetings with tribal entities, and often serve as the regional director's delegate in these government to government consultations. I have undertaken extensive training in tribal relations, and I have long worked with Alaska's diverse cultures, having developed trust relationships based in honesty and mutual respect.
- I was NPS's representative to the Interagency Staff Committee (ISC), a body that informs subsistence management and compliance on Federal public lands across Alaska. I worked closely, on an almost daily basis, with my counterparts at the U.S. Fish and Wildlife Service, the Bureau of Land Management, the Bureau of Indian Affairs, the U.S. Forest Service, the Alaska Department of Fish and Game, and the solicitor's office. The ISC helps to provide continuity across Federal land management agencies, to coordinate interagency information exchange and technical expertise, and to advise the Federal Subsistence Board on regulatory actions.
- I was the Group Management Officer for seven federal advisory committees operating under the Federal Advisory Committee Act (FACA). In this role I was responsible for NPS' regional compliance with FACA, regular reporting of committee activities, recruitment and vetting of committee members, and the publication of Federal Register Notices. I worked with park-based staff to ensure compliance, to organize meeting travel and logistics, and to share information between the regional office, field staff, committee members, and the Federal

Subsistence Board, among others. I also coordinated communications between these advisory bodies, and the ten statewide Subsistence Regional Advisory Councils. The Federal Subsistence Management Program applies a bottom up approach to regulatory actions and relies heavily on the expert knowledge of the subsistence users that make up these committees. For this reason, my work frequently required a deep understanding of diverse epistemologies and worldviews, and intensive efforts to identify congruency between local and traditional knowledge and western science.

- I am known as exceptionally proficient at working with cultures other than my own, and in presenting information in both oral and written formats. Due to my own interest in culture, and in international conservation efforts, I have been actively engaged in the Department of the Interior's International Technical Assistance Program. I coordinated with and presented to representatives of the country of Georgia and South Africa National Parks. I continued to work with this program to provide Alaska-based perspectives to global conservation efforts.

June 2016 – June 2019. **Cultural Anthropologist** (GS-12). Full-time Permanent. Total Annual Salary \$92,435. Office of Subsistence Management, U.S. Fish and Wildlife Service – Region 7.

Address:

U.S. Fish and Wildlife Service, Office of Subsistence Management
1011 E. Tudor Road, MS 121
Anchorage, AK 99503

Supervisor: Jennifer Hardin (928-614-0610)

- In this role I served as an interdisciplinary regulatory analyst. I worked closely with colleagues in the fisheries program, wildlife program, policy program, and council coordination program to seek information from the public, analyze proposals to modify fish and wildlife harvest regulations, and offer professional and technical advice to decision makers. Within the anthropology team I was the only member proficient in cartography and the use of Geographic Information Systems (GIS), and for this reason I was often charged with developing spatial representation and analysis of data.
- I was assigned as the anthropologist for four of ten regional subsistence advisory councils including the North Slope, the Northwest Arctic, the Seward Peninsula, and Southeast Alaska. In this capacity I worked with field offices, rural organizations, tribes, and subsistence users to understand resource health and harvest needs in mixed subsistence-cash economies. I worked closely with field managers and resource experts in National Wildlife Refuges, National Parks and National Monuments, National Forests, and Bureau of Land Management administered lands, as well as with the State of Alaska, to inform the regulatory process and compliance with relevant legislation.
- During my tenure in this position there was no permanent supervisor assigned to the program. I was expected to work independently, without the need for direct and regular supervision. I also continuously rotated with my colleagues into 90-day acting duties as the anthropology program supervisor, and in this capacity represented the program as a part of the leadership team at the Office of Subsistence Management. I assisted in the recruitment of several permanent employees and I successfully obtained a Directorate Fellow to assist with subsistence research.
- I was heavily involved in both the Partners for Fisheries Monitoring Program and the Fisheries Resource Monitoring Program. In this capacity I coordinated research efforts

among numerous partners including tribes, rural organizations, and both State and Federal agencies. I served as an agency project officer on eight separate cooperative agreements, communicating regularly with cooperators and navigating budgets and compliance with these entities. I was heavily involved in the competitive funding process for these and served as an analyst to review and advise on in-depth and extensive project proposals.

- In 2018, I was selected to join the Stepping Up To Leadership (SUTL) cohort 37. During my tenure in this program I developed extensive leadership skills and engaged in intensive self-reflection, recognizing innate strengths and weaknesses. I developed a dynamic personal leadership philosophy that is reflective of my own values and leadership aspirations. I engaged in a series of job shadows in National Wildlife Refuges and National Parks, I completed a series of leadership interviews within the Department of the Interior, and I published a peer-reviewed manuscript as part of an adaptive challenge. Perhaps most importantly, I established a network of nationwide colleagues and friends that continue to support my personal and professional growth, and with which we frequently identify interregional collaborative opportunities.

October 2012 – May 2016. **Anthropologist (Subsistence Resource Specialist I)**. Full-time Permanent. Annual Salary \$58000. Division of Subsistence. Alaska Department of Fish and Game.

Address:

Alaska Department of Fish and Game
333 Raspberry Road
Anchorage, AK 99518

Supervisor: Lisa Olson (907-267-2545)

- I worked to obtain subsistence harvest information through comprehensive surveys and ethnographic research in rural Alaska. I led teams of researchers in many different communities to conduct surveys, undertake key respondent interviews, and engage in participant observation. My responsibilities also included grant writing, community scoping, community data review, mapping, and both oral and written dissemination of project results. I published a wealth of technical and peer-reviewed manuscripts on this work, and I used the resultant data to help inform State and Federal regulatory processes.

August 2011 – January 2012. **Cultural Educator (Curriculum Development Specialist)**. Full-time Permanent. Annual Salary \$52,000. Sealaska Heritage Institute.

Address:

Sealaska Heritage Institute
105 South Seward Street
Juneau, AK 99801

Supervisor: Dr. Rosita Worl (907-586-9114)

- I worked as the sole representative of the educational division to produce culturally sensitive place-based K-12 curriculum materials for Southeast Alaska communities. I travelled frequently to rural Alaska to lead teacher trainings on pedagogical theory. I also engaged in ethnographic research of Tlingit, Haida, and Tsimshian cultures for appropriate inclusion of indigenous perspectives in educational materials.

JOB SHADOWS AND DETAILS:

September 2021. Job Shadow. Ben Bobowski, Superintendent, Wrangell Saint-Elias National Park and Preserve, AK.

May 2019. Job Shadow. Tobin Roop, Chief of Cultural Resources, Yellowstone National Park. Mammoth, WY.

April 2019. Job Shadow. Rhonda Loh, Chief of Natural Resources, Hawaii Volcanoes National Park. Volcanoes, HI.

April 2019. Job Shadow. Thomas Cady, Refuge Manager, Hakalau Forest National Wildlife Refuge. Hilo, HI.

June – September, 2019. Detail. Acting Anthropology Division Supervisor (GS-13), Office of Subsistence Management, U.S. Fish and Wildlife Service. Anchorage, AK.

PUBLICATIONS:

Ream, J.T., D. Zabriskie, and J.A. Lopez. 2019. Herpetological Inventory of the Stikine River Region, Alaska, 2010-2018. *Northwestern Naturalist* 100(2): 107-117.

Ream, J.T. and J. Merriam. 2017. Local and Traditional Knowledge of Stikine River Chinook Salmon: a Local Perspective on a Vital Commercial, Sport, and Subsistence Fish. Alaska Department of Game Division of Subsistence, Technical Paper No. 430. Anchorage.

Sill, L.A., J.T. Ream, and M. Cunningham. 2017. Harvest and Use of Wild Resources in Yakutat, Alaska, 2015. Alaska Department of Game Division of Subsistence, Technical Paper No. 432. Anchorage.

Hazell, S.M., C. Welch, T. Krieg, J. T. Ream, S. Evans, H. Johnson and G. Zimpelman. 2015. Nonsalmon Fish Trends in the Kvichak Watershed: Ethnographic Overview and 2012–2013 Nonsalmon Fish Harvests in 6 Selected Communities, 2012-2013. Alaska Department of Fish and Game, Division of Subsistence Technical Paper No. (In-press), Anchorage.

Hazell, S. M., R. La Vine, H. Johnson, B. Jones, M. Kukkonen, J. T. Ream, E. Schacht, J. M. Van Lanen and G. Zimpelman. 2014. The Harvest and Use of Wild Resources in Selected Communities of the Copper River Basin and East Glenn Highway, 2013. Alaska Department of Fish and Game, Division of Subsistence Technical Paper No. 405, Anchorage.

Fall, J. A., N. M. Braem, C. L. Brown, S. S. Evans, L. Hutchinson-Scarborough, B. Jones, R. La Vine, T. Lemons, M. A. Marchioni, E. Mikow, J. T. Ream, and L. A. Sill. 2014. Alaska subsistence and personal use salmon fisheries 2012 annual report. Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 406, Anchorage.

Ream, J. T. 2013. Geographic distribution. *Ambystoma macrodactylum*. *Herpetological Review* 44:4.

- Holen, D., S. M. Hazell, J. M. Van Lanen, J. T. Ream, S. P. A. Desjardins, B. Jones, and G. Zimpelman. 2014. The Harvest and Use of Wild Resources in Cantwell, Chase, Talkeetna, Trapper Creek, Alexander/Susitna, and Skwentna, Alaska, 2012. Alaska Department of Fish and Game, Division of Subsistence Technical Paper No. 385, Anchorage.
- Fall, J. A., A. R. Brenner, S. S. Evans, D. Holen, L. Hutchinson-Scarborough, B. Jones, R. La Vine, T. Lemons, M. A. Marchioni, E. Mikow, J. T. Ream, L. A. Sill, and A. Trainor. 2013. Alaska subsistence and personal use salmon fisheries 2011 annual report. Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 387, Anchorage
- Ream, Joshua T. *Amphibians and Reptiles in the Cultures of the World and the Northwest Pacific Coast*. Rep. Alaska Herpetological Society, 2013. Web.
- Ream, Joshua T. *Herpetology in the North: A Review of Past, Present, and Future Herpetofaunal Research and Management in the North*. Rep. Alaska Herpetological Society, 2013. Web.
- Ream, Joshua T. *Local and Traditional Knowledge: Tools for Wildlife Research and Management*. Rep. Alaska Herpetological Society, 2013. Web.
- Ream, Joshua T. *The Shtax'heen Kwaan of the Tlingit in Southeast Alaska: A Literature Review*. Rep. Alaska Herpetological Society, 2012. Web.
- Ream, Joshua T. *Traditional Tlingit Relationships with Native Alaska Fauna*. Rep. Alaska Herpetological Society, 2012. Web.
- Ream, Joshua T. *Math for Language Development. Grade 8. Integrating Culturally Responsive Place-Based Content with Language Skills Development for Curriculum Enrichment*. Ed. Christy Ericksen, Crystal Worl, Kathy Dye and Michael Obert. Juneau: Sealaska Heritage Institute, 2012. Print.
- Ream, Joshua T. *Math for Language Development. Grade 7. Integrating Culturally Responsive Place-Based Content with Language Skills Development for Curriculum Enrichment*. Ed. Christy Ericksen, Crystal Worl, Kathy Dye and Michael Obert. Juneau: Sealaska Heritage Institute, 2012. Print.
- Dunton, E. M., J. T. Ream, J. Fieberg, K. J. Haroldson. 2009. Wild turkey food habits on the fringe of their range in Minnesota. In M. W. DonCarlos et al, (eds.) Summaries of Wildlife Research Findings 2008. Minnesota Department of Natural Resources. Wildlife Populations and Research Unit. St. Paul.
- Ream, J. T. 2008. Survival, movements and habitat selection of introduced juvenile alligator snapping turtles (*Macrochelys temminckii*) in the Wolf River drainage, Fayette County, Tennessee. M.S. thesis, Austin Peay State University, Clarksville, Tennessee. 125 pp.
- Ream, J. T. 2008. Geographic distribution. *Hyla avivoca*. Herpetological Review 39:105.
- Ream, J. T. AND E. P. JOHANSEN. 2008. Geographic distribution. *Ambystoma talpoideum*. Herpetological Review 39:360.
- Ream, J.T. and E.P. Johansen. 2008. Geographic distribution. *Farancia abacura*. Herpetological Review 40:114.

Ream, J. T. AND C. J. O'BRYAN. 2008. Geographic distribution. *Agkistrodon contortrix*. Herpetological Review 39:369-370.

Ream, Joshua T. "Aquatic Giants: The Alligator Snapping Turtle & Its Recovery in West Tennessee." *Tennessee Herpetological Society Newsletter* 3 (Fall 2007): 2. Print.

RESEARCH EXPERIENCE:

2014 - Present. Principal Investigator. Stikine Long-term Amphibian Monitoring Program (SLAMP). Alaska Herpetological Society.

TOPIC: Understanding long-term trends in amphibian distribution, abundance and utilization of breeding habitat in the Stikine-LeConte Wilderness

2012 - 2016t. Subsistence Resource Specialist. Division of Subsistence. Alaska Department of Fish and Game – Anchorage, AK.

TOPIC: Subsistence harvest and use patterns in Alaska

2014 - 2016. Research Assistant. Division of Subsistence. Alaska Department of Fish and Game – Anchorage, AK.

TOPIC: Upper Cook Inlet Chinook salmon genetics & local knowledge

2013 - 2016. Co-investigator. Division of Subsistence. Alaska Department of Fish and Game – Anchorage, AK.

TOPIC: Local and traditional knowledge of Chinook salmon in the Stikine River Region of Alaska

2009 - 2016. Research Assistant. Department of Fisheries and Ocean Sciences / University of Alaska Museum. University of Alaska Fairbanks – Fairbanks, AK.

TOPIC: Interdisciplinary research on the capacity of Local and Traditional Knowledge (LTK) to supplement Western Science (WS) in the study and management of herpetofauna in Alaska.

2010. Intern. Northwest Section of Partners in Amphibian and Reptile Conservation - Vancouver, British Columbia.

TOPIC: Archaeological evidence of turtles in native cultures of southern British Columbia

2009. Research Technician. Department of Biology. University of Nevada – Reno, NV.

TOPIC: Black-capped Chickadee nesting success in Anchorage, Alaska

2009. Research Technician. Minnesota Department of Natural Resources – Onamia, MN.

TOPIC: Winter diet of Wild Turkeys in Minnesota

2009. Research Assistant. School of Natural Resources and Agricultural Science. University of Alaska Fairbanks – Fairbanks, AK.

TOPIC: Quantitative analyses of wildfire burn severity in Alaska using Remote Sensing and GIS
2009. Research Assistant.

Center of Excellence for Field Biology. Austin Peay State University – Clarksville, TN.

TOPIC: Management of Alligator Snapping Turtle Reintroduction Program in Tennessee; Habitat preferences, movement patterns and survival of released juvenile Alligator Snapping Turtles; Surfacing behavior in juvenile Alligator Snapping Turtles; Turtle assemblages of the Wolf River Wildlife Management Area, Tennessee; Herpetofaunal inventory of the Milan Army Ammunition Plant, TN

2006. Research Technician. Department of Biology. Pennsylvania State University – University Park, PA.

TOPIC: Rodent parasitology in central Pennsylvania

2006. Research Technician – Winter Externship. College of Agricultural Sciences. Pennsylvania State University – University Park, PA.

TOPIC: Effect of diet on Holstein calf health

2005 - 2006. Research Volunteer. Pennsylvania Game Commission – State College, PA.

TOPIC: Ruffed-grouse flush and drum surveys

2005. Research Technician. Department of Fisheries and Ocean Sciences. University of Alaska Fairbanks – Kodiak, AK.

TOPIC: Shorebird nesting success & diets in Chiniak Bay

2005. Research Volunteer. Center for Rural Development. Pennsylvania State University – University Park, PA.

TOPIC: Habitat restoration and ecotourism in Belize

2003 – 2005. Research Technician. Department of Poultry Science. Pennsylvania State University – University Park, PA.

TOPIC: Effect of diet on egg productivity, shell thickness, muscle mass, and disease

TEACHING EXPERIENCE:

2018. Instructor / Program Lead. Camp'Phibian. Alaska Herpetological Society, U.S. Fish and Wildlife Service, and the U.S. Forest Service.

2015. Instructor / Program Lead. Camp'Phibian. Alaska Herpetological Society, the Girl Scouts of Alaska, and the U.S. Forest Service.

2014. Instructor / Program Lead. Herpetological Curricula and Hands-on Research for K12 Schools – Fairbanks Teacher Workshop. Alaska Herpetological Society and the National Park Service.

2014. Instructor / Program Lead. Camp'Phibian. Alaska Herpetological Society, Petersburg High School Advanced Placement Biology, and the U.S. Forest Service.

2014. Instructor / Program Lead. Camp'Phibian. Alaska Herpetological Society, the Girl Scouts of Alaska, and the U.S. Forest Service.

2011. Instructor / Curriculum Development Specialist. Developmental Language Process for K-12 Instructors. Sealaska Heritage Institute.

2007-2008. Laboratory Assistant. Anatomy and Physiology. Austin Peay State University.

2003-2004. Instructor. Becoming a Licensed Alaska Teacher. Department of Education. University of Alaska Fairbanks.

AWARDS:

May 2019: U.S. Fish and Wildlife Service Regional Director's Award for Science Excellence

May 2019: U.S. Fish and Wildlife Service Regional Director's Award for Fostering Partnerships

2007 - 2008: Graduate Student of the Year. Department of Biology. Austin Peay State University.

GRANTS AND FELLOWSHIPS:

2014: United States Forest Service and Wrangell Sportsman's Association; Camp'Phibian – A Wilderness Service Learning Experience. Alaska Herpetological Society. \$5,000

2014 – Present: Alaska Forum for the Environment; Community Environmental Education and Science through Youth Involvement. Alaska Herpetological Society. \$5,000

2013 – Present: National Park Service Grant; Amphibian Outreach, Education and Citizen Science in Rural Alaska. Alaska Herpetological Society. \$5,000

2009 – Present: National Science Foundation (NSF); Integrated Graduate Experience and Research Traineeship. \$60,000

2011 – 2013: Research Scholar. Sealaska Heritage Institute – Juneau, AK. \$5,000

2013: Alaska Experimental Program to Stimulate Competitive Research (EPSCOR); Grant to fund graduate student research involving Alaska Native tribal authorities. \$5,000

2012: Alaska Experimental Program to Stimulate Competitive Research (EPSCOR); Graduate Student Research Fellowship. \$10,000

2012: Alaska Center for Global Change and Arctic Systems Research; Student Grant Competition. \$5,000

2007-2008: Tennessee Wildlife Resources Agency; Grant to evaluate reintroduction program for the Alligator Snapping Turtle. \$60,000

INVITED TALKS:

2019. United States Forest Service - Wrangell Ranger District. Chautauqua Lecture Series. Herpetological Inventories of the Stikine River. Wrangell, AK.

2015. United States Forest Service - Wrangell Ranger District. Chautauqua Lecture Series. Stikine River Chinook Local and Traditional Knowledge Project. Wrangell, AK.

2014. U.S. Fish and Wildlife Service Office of the Science Advisor. The Wildlife Society. Human-Amphibian Interactions in the North: Utilizing Local Knowledge and Citizen Science in Herpetological Research. Pittsburgh, PA. Oral Presentation and Panel Discussion.

2014. United States Forest Service - Wrangell Ranger District. Chautauqua Lecture Series. Amphibians of Alaska. Wrangell, AK.

2013. Alaska Herpetological Society. Guest Lecture Series. Amphibians of Alaska. Petersburg, AK.

2012. Say Yes to STEM in Schools (SYSTEMS). Guest Lecture Series. Amphibians of Alaska. Klawock, AK; Craig, AK; Metlakatla, AK.

2010. United States Forest Service - Wrangell Ranger District. Campfire Lecture Series. Alaska's Amphibians and Reptiles. Wrangell, AK.

2010. Rainforest Education Society. Frogs, Salamanders, Turtles and People – Alaska's Slimy Secrets. Cloayoquot Field Station – Tofino Botanical Gardens, Tofino, British Columbia.

CONFERENCE PRESENTATIONS:

2019. Alaska Anthropological Association. Partners for Fisheries Monitoring Program. Poster Presentation.

2015. Society of Ethnobiology. Herpetological Citizen Science and Service-learning in Rural Southeast Alaska. Oral Presentation.

2015. Society of Ethnobiology. Utilizing Local and Traditional Knowledge (LTK) to better understand Stikine River Chinook Populations Over Time: a case study from Wrangell and Petersburg. Oral Presentation.

2015. Alaska Anthropological Association. Employing Technology in the Field: The Subsistence App. Oral Presentation.

2014. The Wildlife Society. Human-Amphibian Interactions in the North: Utilizing Local Knowledge and Citizen Science in Herpetological Research. Oral Presentation.

2014. Alaska Chapter of the American Fisheries Society. Human-Amphibian Interactions in the North: a detriment or an opportunity for Alaska's Native Species? Oral Presentation.

2012. Alaska Herpetological Society. Amphibians in Stikine Kiks.adi Culture and the Ability of Indigenous Knowledge to Inform the Field of Herpetology. Oral Presentation.

2012. Alaska EPSCOR All-Hands Meeting. Amphibians and Reptiles in Alaska? Utilizing Community Knowledge, Indigenous Knowledge, Citizen Science Projects, and Western Science Inventories in the Study of Northern Herpetofauna. Poster Presentation.

2008. Association of Southeastern Biologists. Preliminary observations on habitat preference, movement patterns and survival of introduced juvenile Alligator Snapping Turtles (*Macrochelys temminckii*). Poster Presentation.

2008. World Congress of Herpetology, Manaus, Brazil. Observations on habitat preference, movement patterns, and survival of introduced juvenile Alligator Snapping Turtles (*Macrochelys temminckii*). Oral Presentation.

2008. Tennessee Academy of Science. Surfacing behavior in captive juvenile Alligator Snapping Turtles (*Macrochelys temminckii*) under three temperature regimes. Poster Presentation.

2008. Tennessee Herpetological Society. The structure and composition of turtle assemblages in the main channel and an adjacent slough of the Wolf River, Fayette County, Tennessee. Poster Presentation.

2007. Tennessee Herpetological Society. A preliminary report on the structure and composition of a West Tennessee freshwater turtle assemblage. Oral Presentation.

2007. Tennessee Herpetological Society. Preliminary observations on habitat preference, movement patterns and survival of the Alligator Snapping Turtle (*Macrochelys temminckii*). Poster Presentation.

2007. Tennessee Academy of Sciences. Preliminary observations on habitat preference, movement patterns and survival of introduced juvenile Alligator Snapping Turtles (*Macrochelys temminckii*). Oral Presentation.

WORK RELATED TRAININGS:

2022. Refuge Management Academy. National Conservation Training Center, Shepherdstown, WV

2022. BOT 130: Plants in the Hawaiian Environment. 3-credit college course. Kapiolani Community College, Oahu, HI.

2022. M-581: Fire Program Management. Virtual.

2021. A-100: Basic Aviation Safety. Virtual.

2021. A-200: Aviation Mishap Review. Virtual.

2021. ICS-100: Introduction to Incident Command System. Virtual.

2021. IS-700: National Incident Management System, an Introduction. Virtual.

2021. CLM8138: Urban Wildlife Conservation Program: Building a Foundation Together. Virtual.

2021. NPS Management of an Officer Involved Shooting. Virtual.

2021. NPS Superintendents Compendium Overview. Virtual.

2021. GSA Federal Advisory Committee Act Training, 201. Virtual.

2021. NPS/FWS Co-management and Collaborative Management. Virtual.

2021. NPS/FWS Tribal Consultation Training. Virtual.

2021. NPS Congressional Operations Seminar. Virtual.

2021. NPS Supervisory Skills Workshop. Virtual.

2020. Introduction to Grands and Cooperative Agreements for Federal Personnel. Management Concepts. Virtual.

2020. Paperwork Reduction Act. The Regulatory Group, Inc. Virtual.

2020. Regulatory Drafting (Advanced). The Regulatory Group, Inc. Virtual.

2019. Consulting with Tribal Nations Training. DOI University, Main Interior Building, Washington, D.C.

2019. National Park Service Fundamentals. Albright Training Center, Grand Canyon National Park.

2019. Stepping Up To Leadership – Cohort 37; Alaska Region Representative. U.S. Fish and Wildlife Service Training. Includes job shadows at Volcanoes National Park, Yellowstone National Park, and Hikalau Forest National Wildlife Refuge.

2018. Leading at the Speed of Trust. U.S. Fish and Wildlife Service Training.

2018. Crucial Conversations. U.S. Fish and Wildlife Service Training.

2018. Basic Financial Aid for Project Officers. U.S. Fish and Wildlife Service Training.

2017. A-312: Water Ditching and Survival. U.S. Fish and Wildlife Service Training. Anchorage, AK.

2017. Foundations in Human Dimensions. U.S. Fish and Wildlife Service Training.

2017. Foundations of the U.S. Fish and Wildlife Service. U.S. Fish and Wildlife Service Training.

SERVICE TO PROFESSION:

2017 – Present: Board Member, Eagle River Chugiak Parks and Recreation Board of Supervisors. Anchorage, AK.

2012 – Present: President / Charter Member. Alaska Herpetological Society.

2010 - 2011: Chair. Alaska Amphibian Working Group.

2009 - 2010: President / Charter Member. Alumni Chapter of The Wildlife Society at Austin Peay State University.

2007 - 2008: President / Charter Member. Student Chapter of The Wildlife Society at Austin Peay State University.

2005 – 2006: President. / Charter Member. Student Chapter of The Wildlife Society at the Pennsylvania State University.

PROFESSIONAL AFFILIATIONS:

Society for the Study of Amphibians and Reptiles
Society for Northwest Vertebrate Biology
Society of Ethnobiology
Partners in Amphibian and Reptile Conservation
The Wildlife Society

MEDIA COVERAGE:

Peterson, Jan. "Small Urban Wildlife Refuge Crucial to Birds' Survival." U.S. Fish and Wildlife Service, Pacific Region. January 2023. <https://medium.com/usfwspacificislands/small-urban-wildlife-refuge-crucial-to-birds-survival-cb7ad494478b>.

Leffler, June. "He who cares for the frogs," an Alaska herpetologist on amphibians near the Stikine. **KSTK Stikine River Radio**. Broadcast 24 March 2019 and published at <https://www.kstk.org/2019/03/24/he-who-cares-for-the-frogs-an-alaska-herpetologist-on-amphibians-near-the-stikine/> . Radio.

Vierkant, Caleb. "Herpetological Inventories of the Stikine River" *Wrangell Sentinel* April 2019. Print.

Rudy, Dan. "Local scouts reprise role as citizen scientists" *Wrangell Sentinel* 28 May 2015: 5. Print.

O'Connor, Brian. "Under Logs: The not so hidden wildlife of Southeast Alaska" *Wrangell Sentinel* 12 June 2014: 16. Print.

Naomi's Nightmares of Nature. "Alaska – featuring strange and unusual animals in Alaska" *British Broadcasting Company*. May 2014: Series 2 Episode 1. Television.

Clayton, Kyle. "Under Logs: The not so hidden wildlife of Southeast Alaska" *Petersburg Pilot* 21 November 2013: 3. Print.

Bakker, Theresa. Crowdfunding fuels amphibian survey field work. University of Alaska Fairbanks. 8 May 2013. Web. Available at <http://uafornerstone.net/crowdfunding/>.

Feinberg, Robbie. *Elusive Amphibians Chronicled Along Stikine*. KFSK. Petersburg, Alaska, 14 June 2012: 3. Radio.

Knight, Greg. "Ream, Golf Course Partner in Frog Study." *Wrangell Sentinel* 14 June 2012: 7. Print.

Mcavoy, Kaitlyn. "What Do You Know about Amphibians?" *Wrangell Sentinel* 2 Feb. 2012: 7. Print.

Ream, Joshua. "Interested in Becoming a Citizen Scientist?" *Wrangell Sentinel* 24 Mar. 2011: 11. Print.

Long, Ryan. "Josh Ream Studies Reptiles, Amphibians, and Their Cultural Impacts." *Wrangell Sentinel* 15 July 2010: 1. Print.

Scifo, Dan. "Ligonier Native Helps Snapping Turtles Survive." *Bulletin Weekend* [Latrobe] 21 Sept. 2008, Volume 106 (234): 1+. Print.

EXTRACURRICULAR SERVICE:

2022 – Present. Board of Directors. Hau'ula Community Association.

2019 – Present. President. Last Frontier Poultry Association.

2018-2019. Vice-President. Last Frontier Poultry Association.

2017. Secretary. Sand Lake Community Council. Anchorage, AK.

2009 – 2010. Board Member. Sigma Phi Epsilon Alumni Chapter. University of Alaska Fairbanks.

2007 – 2008. Member. Sustainable Campus Fee Committee. Austin Peay State University.

2007. Senator. Student Government Association. Austin Peay State University.

2005 – 2006. Senator. Undergraduate Student Government. Pennsylvania State University.

2001-2002. Foreign Exchange Student (1 Year). Castro, Chile. American Field Service.

RELATED PROFESSIONAL SKILLS:

GIS & Remote Sensing

Bear & Firearm Safety Certification

Certified in Wilderness First Aid, NOLS

Certified Avian Technician, Pennsylvania Department of Agriculture

Certified in Radio Telemetry through Advanced Telemetry Service (ATS)

Certified through Project WILD & WET in integrating Wildlife Education in K-12 curriculum

Rabies Vector Species Certified

Retro-orbital rodent phlebotomy through PSU Centralized Biological Services

COURSES PREPARED TO TEACH:

Herpetology

Ornithology

Biology

Research Methods (Natural Sciences / Social Sciences / Interdisciplinary)

Ecology

Anatomy and Physiology

Resilience and Adaptation

Anthropology

Alaska Native Cultures

Pedagogy

LANGUAGES:

English: Native Speaker
Spanish: Conversational

REFERENCES:

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Updated: 20 January 2023