

# Kānehili Community Association Park, Phase 2

*Schematic Design Progress Meeting*

July 12, 2023

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# Meeting Agenda

00 **Introductions**

01 **Preliminary Design Review**

02 **Schematic Design**

Site Plan

Landscape

Lanai

Community Hale

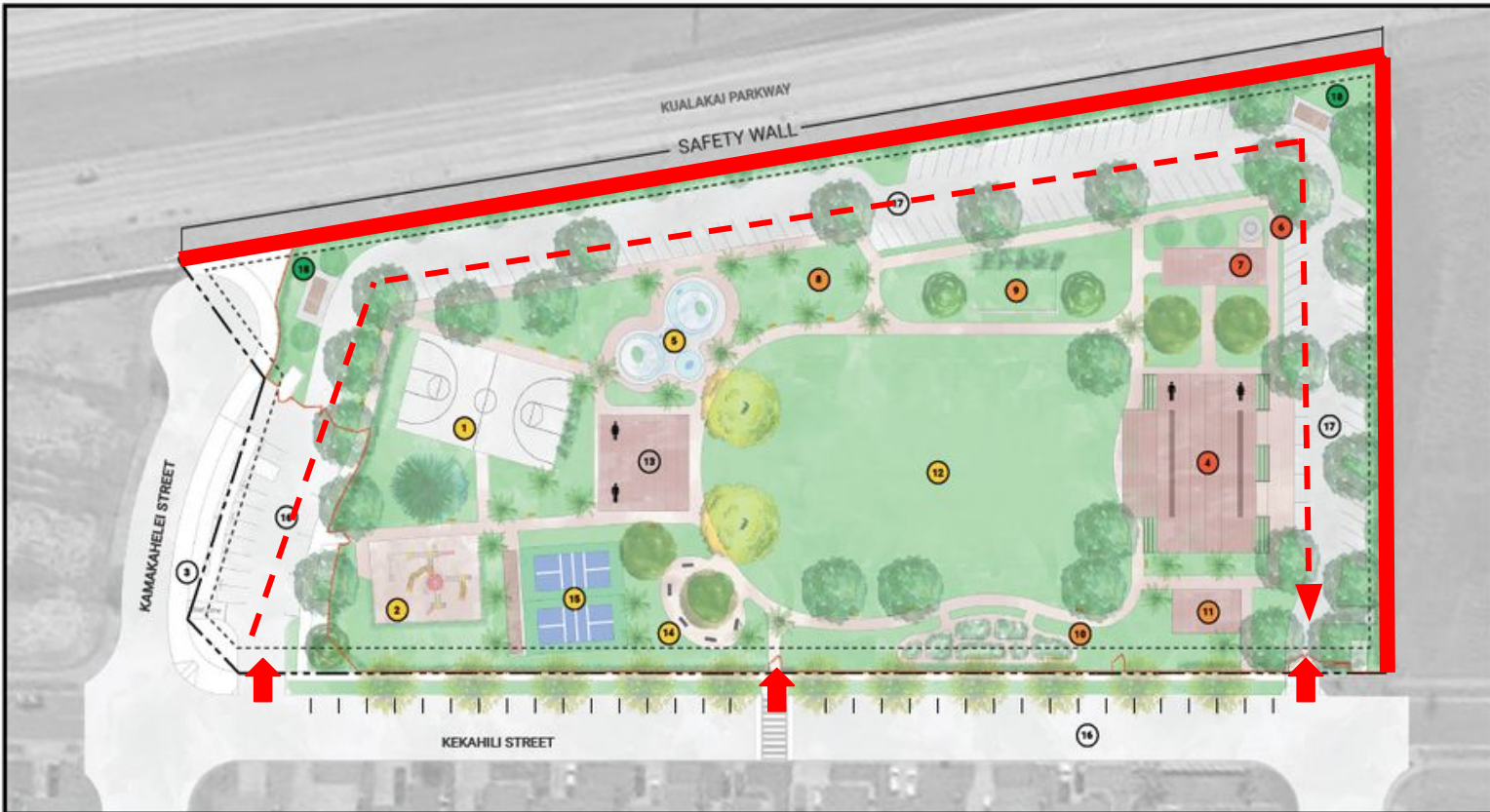
Craft Hale

Imu Hale Alternative

Building Materials

03 **Next Steps**

04 Mahalo! **Feedback**



# KĀNEHILI COMMUNITY ASSOCIATION PARK PRELIMINARY DESIGN PLAN

**PROPERTY INFORMATION**  
 ADDRESS: 71-1228 KAKAHELE ST., HI 96747  
 DATE: 07-15-2021  
 OWNER INFORMATION: HUI  
 LOT AREA: 102,700 SQ FT (2.36 ACRES)

MAXIMUM LOT COVERING: 15% OF COVER UP TO 10 FT. ONLY 8 FT. HIGH  
 EXISTING: NONE, NEW: NONE, FENCED: 17', FENCE AND SIGN: 17'  
 TOTAL FENCED COVERING: 298,117

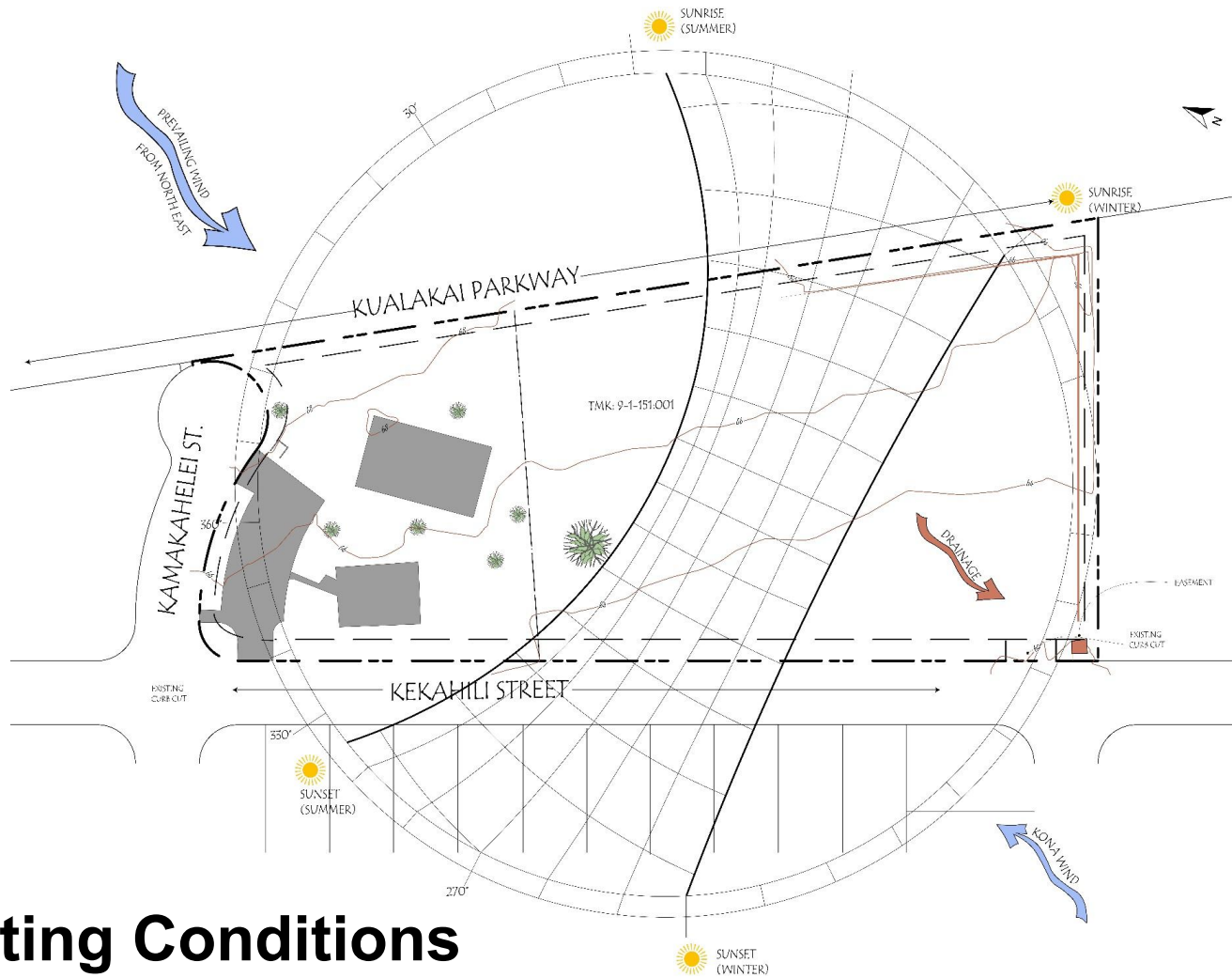
PROPERTY LINE  
 EXISTING LOT LINE  
 EXISTING LOT AREA  
 FENCE

SCALE: 1"=100'  
 0' 10' 20' 30' 40' 50' 100'

N  
 SOLAR PATH  
 NORTHEAST TRACKING

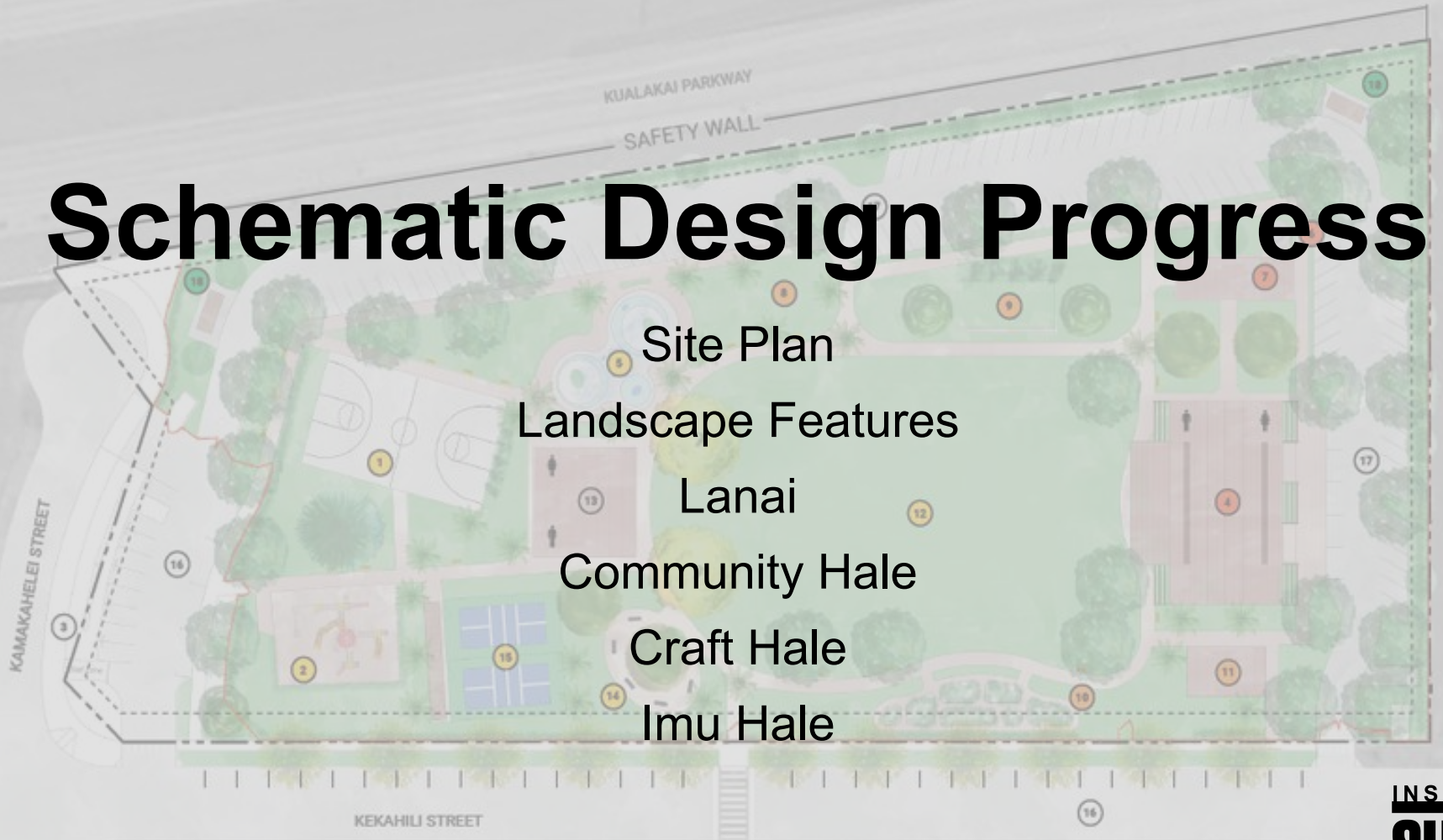
- ### PROGRAM ELEMENTS
- 1 BASKETBALL COURT (EXISTING)
  - 2 PLAYGROUND (EXISTING)
  - 3 MAIL BOXES (EXISTING)
  - 4 COMMUNITY CENTER
  - 5 SPLASH PAD
  - 6 BIU
  - 7 BIU SHED
  - 8 NATIVE GAMES
  - 9 HULA MOUND
  - 10 LEI GARDEN
  - 11 CRAFT PAVILION
  - 12 PLAY FIELD
  - 13 COMFORT STATION
  - 14 FITNESS STATIONS
  - 15 PICKLEBALL COURTS
  - 16 EXISTING PARKING
  - 17 NEW PARKING (76 SPOTS)
  - 18 MAINTENANCE SHED

- ### HUI MEA HO'OHANA (USER GROUPS)
- COMMUNITY CENTER - PROGRAMMING, ORGANIZING EVENTS, BIU AND BIU SHED
  - KEIO PLAY AND RECREATION - PLAYGROUND, BASKETBALL/VOLLEYBALL COURT, PLAYFIELD, SPLASH PAD, FITNESS STATIONS, PICKLEBALL COURT
  - ARTS AND CULTURE - HULA MOUND, HAWAIIAN GAMES, COURTS, LEI GARDEN
- INSTITUTE SHADE



# Existing Conditions

# Schematic Design Progress



Site Plan

Landscape Features

Lanai

Community Hale

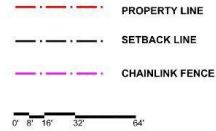
Craft Hale

Imu Hale



**KANEHILI COMMUNITY ASSOCIATION PARK , PHASE 2  
SCHEMATIC DESIGN PROGRESS  
SITE PLAN**

2023/07/12



**PARKING STALLS : 103  
LOADING ZONE: 1**





Site Aerial View

An aerial photograph of a residential development, showing a grid of streets and numerous houses. In the center, a park area is highlighted with a semi-transparent design overlay. This overlay includes a building with a brown roof, a paved area, a playground with colorful equipment, and various trees and landscaping. The text 'Landscape' is prominently displayed in the center of the image, with a list of design elements below it.

# Landscape

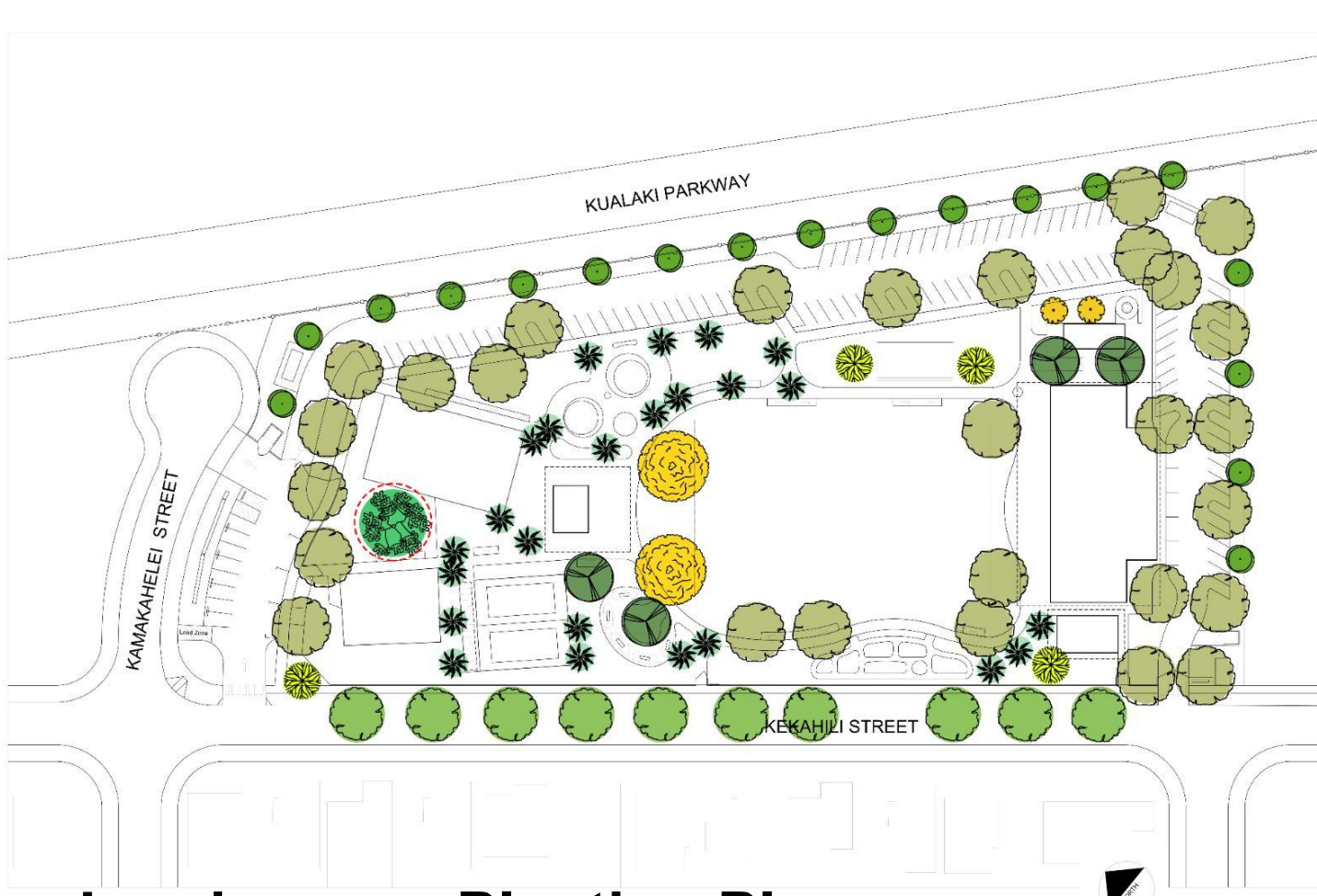
Planting










Paving

Lighting

Park Features





-  Lonomea (*Sapindus oahuensis*)
-  Rainbow Shower (*Wilhelmina Tenney*)
-  Gold tree (*Tabulate donnell-smithii*)
-  Alahe'e (*Psydrax odorata*)
-  Hala (*Pandanus tectorius*)
-  Mai'a (*Musa x paradisiaca*)
-  White Tecoma (*Tabebuia berteroi*)
-  Loulu Plam (*Pritchardia martii*)
-  Monkey pod (*Albizia Saman*)

# Landscape - Planting Plan

## Parking



White Tecoma  
Tabebuia Berteroi



Lonomea  
Sapindus Oahuensis

## Shady



Lonomea  
Sapindus Oahuensis



Alahe'e  
Psydrax Odorata



Loulou Palm  
Pritchardia Martii

## Feature Trees



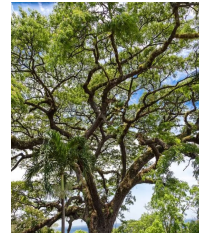
Hala  
Pandanus Tectorius



Gold Tree  
Tabulate Donnell-Smith



Mai'a  
Musa x Paradisiaca



Monkey Pod  
Albizia Saman

## Lei Garden



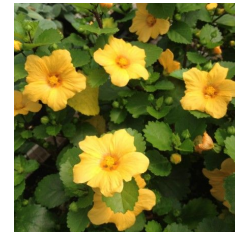
Ko'oloa'ula  
Abutilon menziesii



Ti  
Cordyline Fruticosa












Maile  
Alyxia stellata



Ilima  
Sida Fallax

# Trees



-  Hydropave
-  Permeable Concrete
-  Gravel Aggregate
-  Basalt Soil Stabilizer
-  Permeable Asphalt
-  Bushes
-  Grass Ground Cover
-  Grass- Keiki Soccer
-  Loose Gravel or Mulch

# Landscape - Hardscape + Softscape



Hydropave



Gravel Aggregate



Permeable Asphalt



Permeable Concrete/ Asphalt (Color)



Permeable Concrete



Basalt Soil Stabilizer / Permeable Concrete

# Landscape - Hardscape

## Parking lot



Solar Street Light

## Field



Solar Powered Court Lights

## Walkway



LED street light



Bollard Lawn light



Additional lighting

# Lighting



# Landscape Features





Prince Lot Hula Festival  
Hula Mound





*Dried coconut fronds*



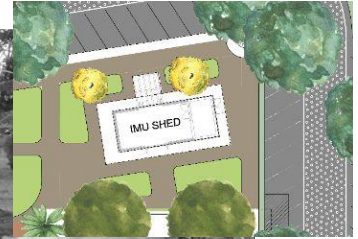
*Calvin & Shannon mashing the banana stump*



*Randy adding banana leaf to the imu*



*Calvin tends to the imu*



**Imu**

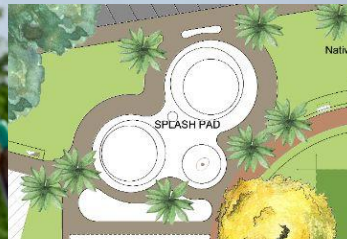




# Pickleball Courts

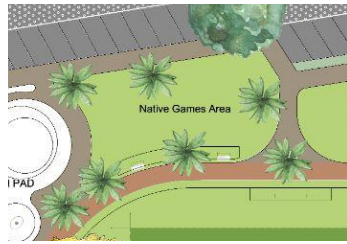


Fitness Station



Splashpad

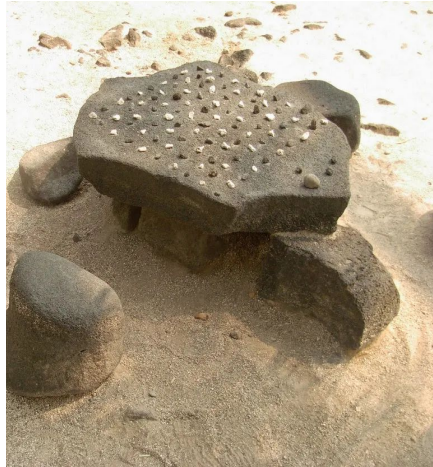
**INSTITUTE  
SHADE**  
Sustainable Human-Centered Architecture & Design for the Earth



'Ulu maika



Uma Pā Uma

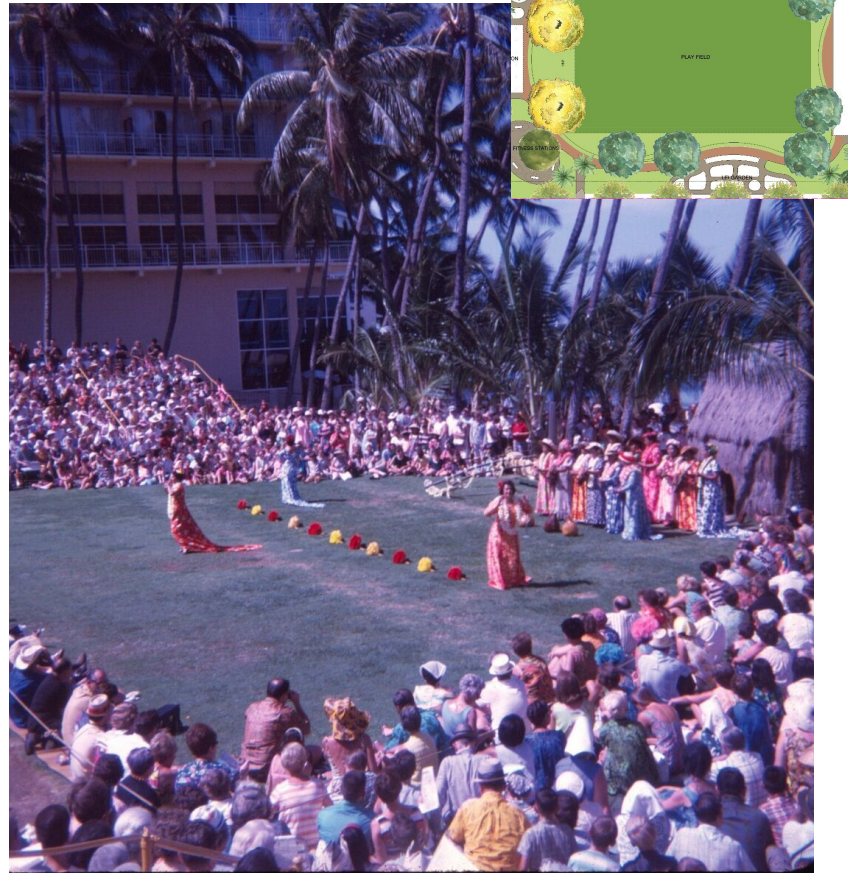


Kōnane



Hukihuki

# Native Games

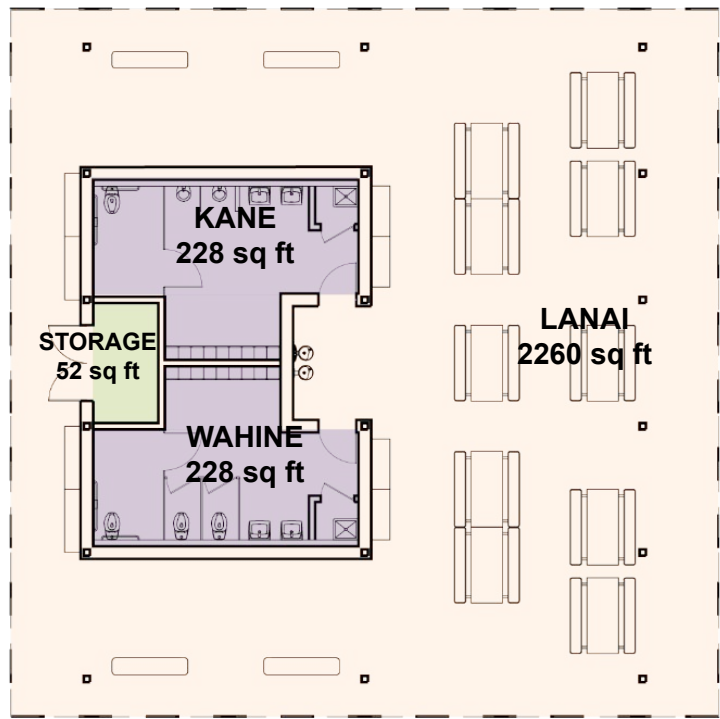


# Play Field



Lanai

**Building Area: 3136 sq ft**

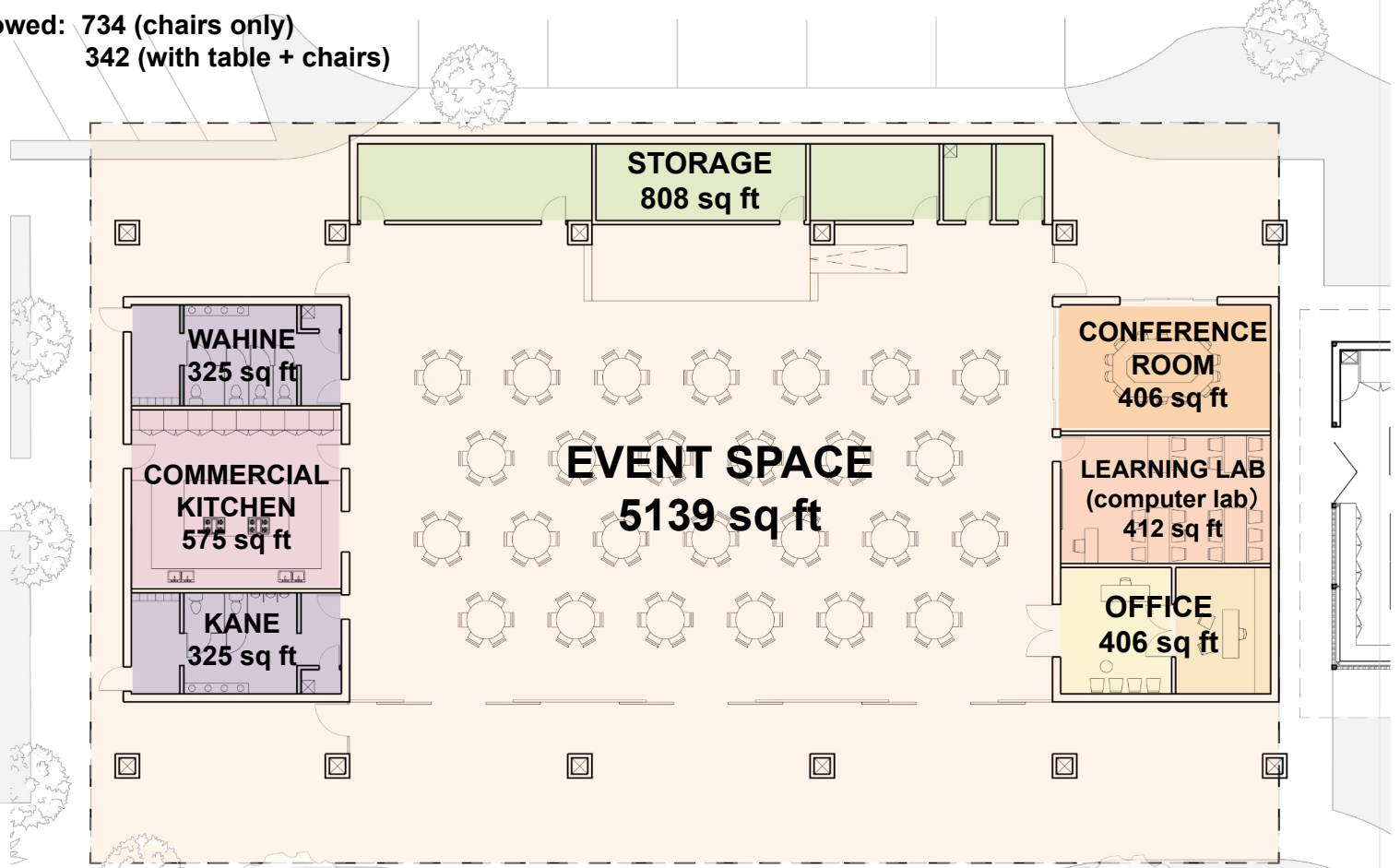




# Community Hale



Persons Allowed: 734 (chairs only)  
342 (with table + chairs)



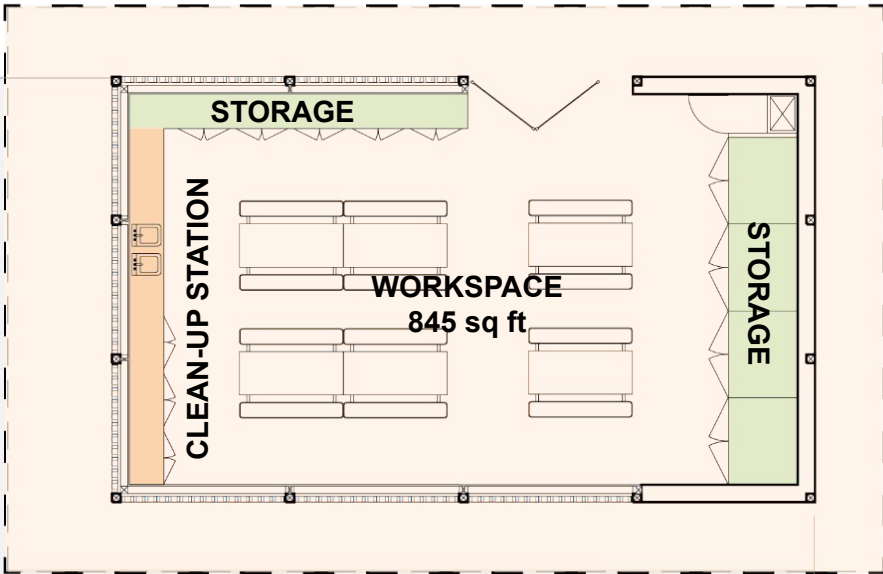
# Community Hale Floor Plan





# Craft Hale

Building Area: 990 sq ft



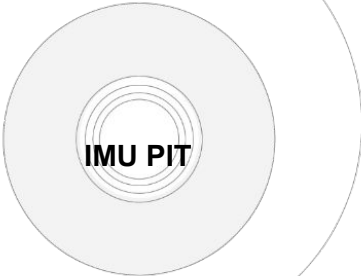
# Craft Hale Floor Plan



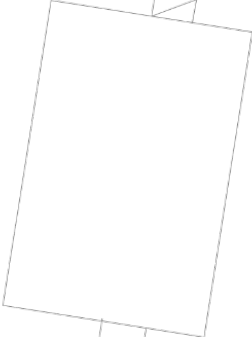
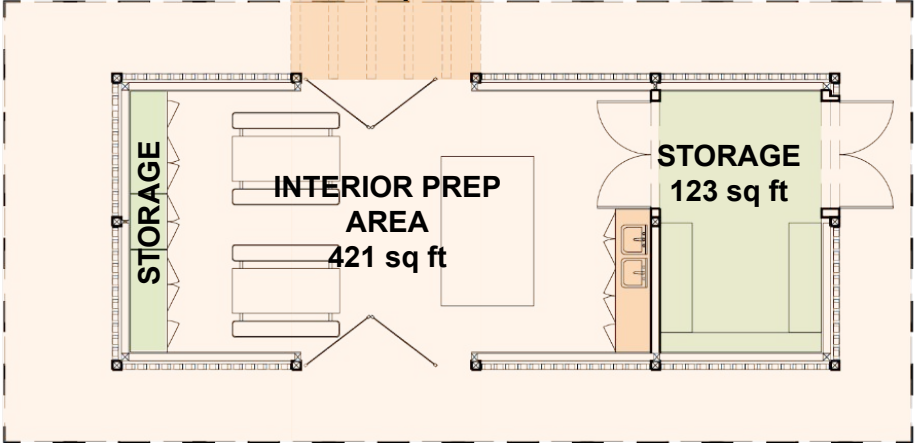


**Imu Hale**

**Building Area: 668 sq ft**



**EXTERIOR  
PREP AREA  
139 sq ft**



# Imu Hale Floor Plan



**Imu Hale - Native Design**  
Kapolei Cultural Heritage Center

# Imu Shed - Alternative Design

- Size + specs pulled from ROH Ch. 16a12 Building Code
- Max. 30'x60'x7' (per building code regulations)
- Reduces material cost
- Reduces built-in storage + prep space
- Requires Certified Hale Builder
- Requires exterior storage shed
- Requires fire sprinklers



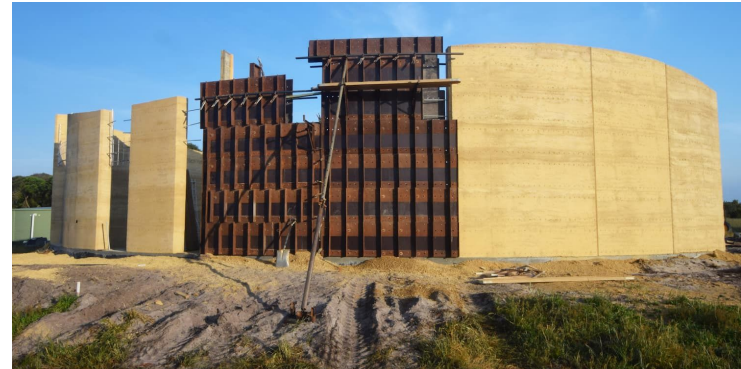
HALE HALAWAI  
Thatched End Style

# Rammed Earth

- Humidity controlled through the natural ability of the walls
  - Walls absorb & release moisture vapor
- Major reductions to energy usage
  - Natural balancing out of the extreme external temperatures
  - Eliminate the need to install or run air conditioning
- Community production



Kalkee Road Children's & Community Hub



The Round House

source: [www.rammedearthenterprises.com.au/](http://www.rammedearthenterprises.com.au/)



# Rammed Earth

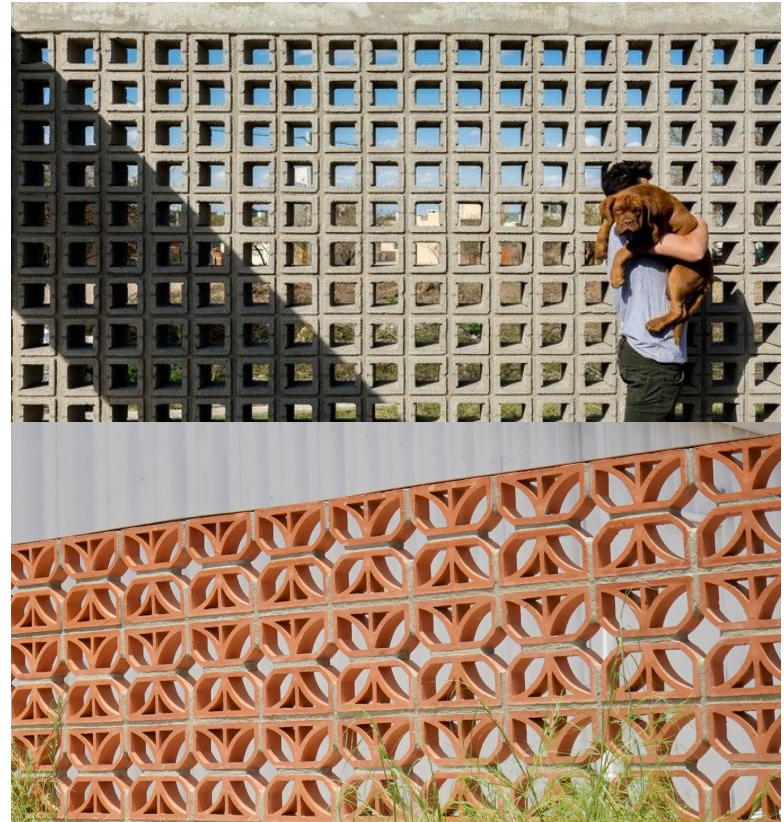
- Soundproofing between rooms
- Excellent acoustic properties
- Load bearing walls
- Termite resistant
- Less energy to build
- Lasting for generations
  - Walls are recyclable
- No painting or maintenance required



Architect Sean Connelly's installation *A Small Area of Land* (Kaka'ako Earth Room), a "temporary earth sculpture" made from 32,000 pounds of volcanic soil and coral sand

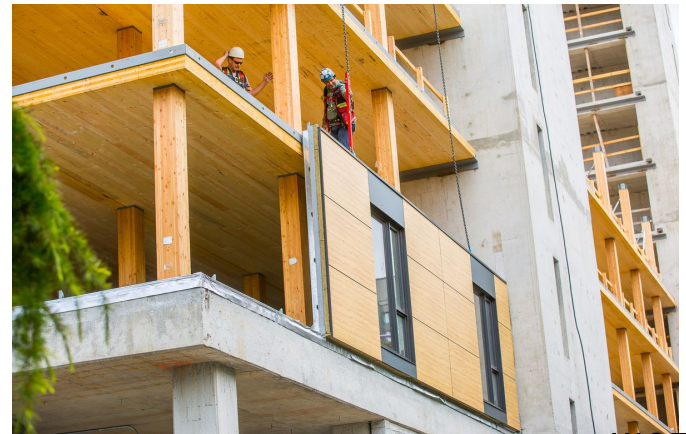
# Breeze Blocks

- Natural ventilation
- Natural lighting
- Energy saver
- Can have decorative patterns
- Can substitute windows
- Easy installation
  - similar to construction of usual brick wall



# Cross Laminated Timber (CLT)

- Large-scale, prefabricated, solid engineered wood panel
- Lightweight
- Very strong
- Good acoustic, fire, seismic and thermal performance
- Fast and easy to install
- Generating almost no waste onsite
- Offers design flexibility
- Low environmental impacts
- In partnership with the Albizia Project



Brock Commons Tallwood House, UBC  
Photo Credit: KK Law

# Standing Metal Seam Roof System

- Low-maintenance
- 30-50 life span before replacement
- Upfront material + installation cost
- Noise factor from rainfall
- Local business partnerships available



PV panels clip onto standing metal roof seam.



# Next Steps

- Schematic Design Progress and Cost Estimation (August 2023 TBC)
- Grant application for full service design and construction (TBC)
- Permitting and Construction Contracting (TBC)
- Construction Period (TBC)



# Mahalo!

*Feedback & Questions?*

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