Hoʻomaluhia Botanical Garden Wayfinding Enhancement

By: Kyle Dinwoodie, Paige Littlehale, Jackson Pelletier, and Brady Hogan

Our Team



Jackson Pelletier, Paige Littlehale, Kyle Dinwoodie, and Brady Hogan

Our Sponsor



HONOLULU BOTANICAL GARDENS

Joshlyn Sand, HBG Director

Additionally from left to right:

- Brian Groelsma, Garden Supervisor
- Iris Fukunaga, Recreation Specialist
- Dana Katsutani, Recreation Specialist
- Alma Phocus, Program Specialist

About Hoʻomaluhia

- Built by the United States Army Corps of Engineers
- Largest botanical garden in Honolulu.
- Contains Loko Waimaluhia, and houses over 4000 species of plants.
- Located at the base of the Koʻolau Mountains
- The park also allows hiking, camping, fishing, and offers other events and classes throughout the year.



Problem Statement

- 2016: 218,000 visitors
- 2022: 571,000 visitors

GOAL:
Provide tools and guides to improve wayfinding in the garden.



METHODS

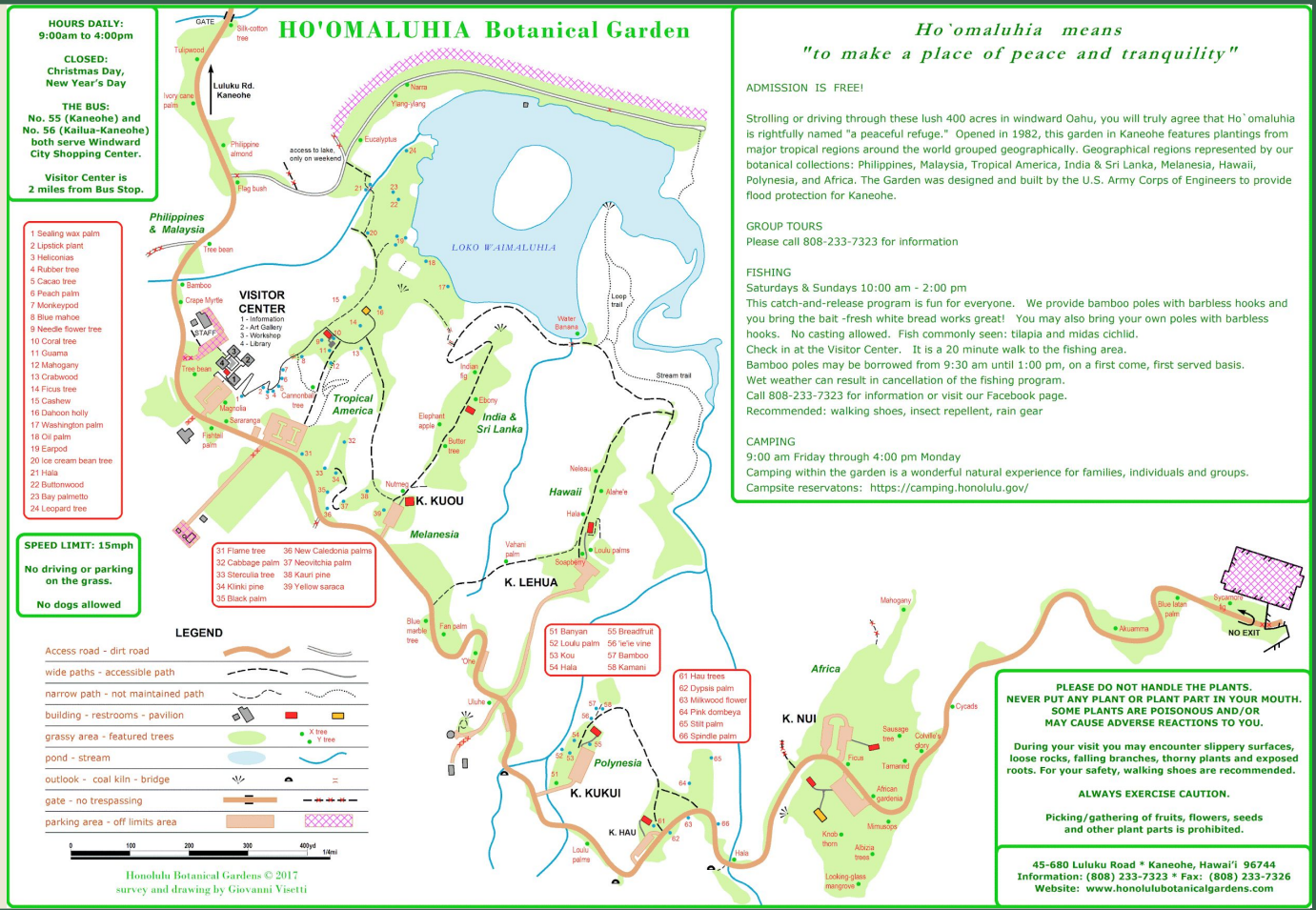
Interviews and Field Observation

- Visitors expressed interest in locating specific areas of the Garden utilizing pre-existing photos
- Visitors believed that more directional signage was needed
    - Many paths are unmarked
- Current wayfinding tools hard to use/unclear



Map Rework

- Interview garden staff and visitors
- Explore the garden using the map
- Use feedback to create a new map
- Second round of interviews
- Refine map with new feedback



Signage Redevelopment Proposal



Current directional sign

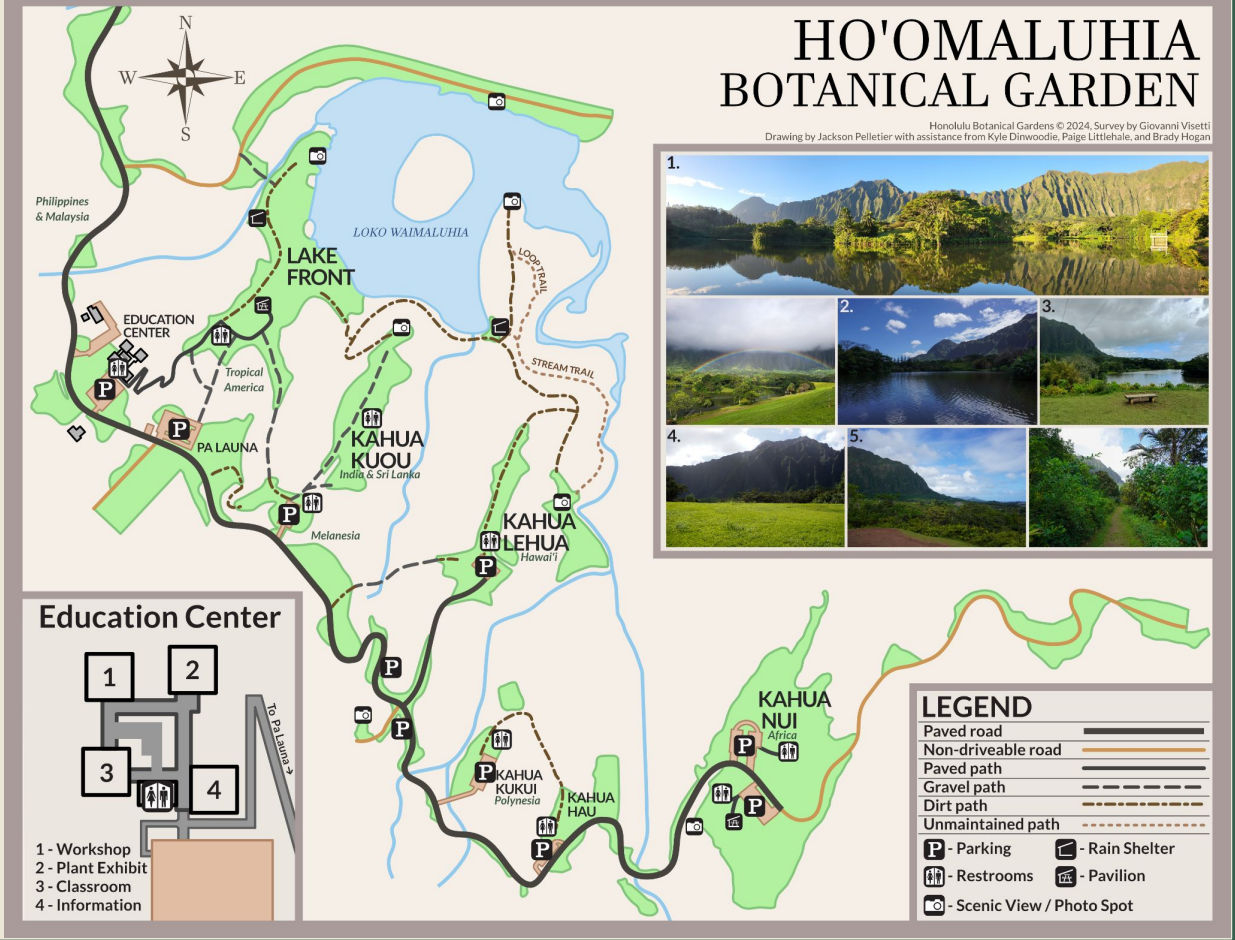
Junction and Trailhead Signage

- Explored the garden in its entirety
- Interviewed with garden visitors and staff to collect opinions
- Thought about accessibility concerns in regard to the templates

RECOMMENDATIONS

Base Map

- 8.5 x 11 inch.
- Implemented additional area names
- New symbol made for scenic views
- National Park symbols used for other points of interest
- Trails and roads updated
- Visual clutter removed for usage on mobile devices



Positions for New Signage



: Trailhead

: Junction

Trailhead Signage

- Trailhead signage will be placed in each major part of the garden:
  - **Loko Waimaluhia**
  - **Kuou**
  - **Lehua**
  - **Kukui**
  - **Nui**
  - **Hau**
- Signage will contain:
  - **Name of Specified Area**
  - **Full Map (scaled-down)**
  - **Localized Area Map**
  - **"You Are Here" placement**
  - **Area-Specific Information**
  - **HBG Logo**
  - **Background Image**
  - **QR Map**

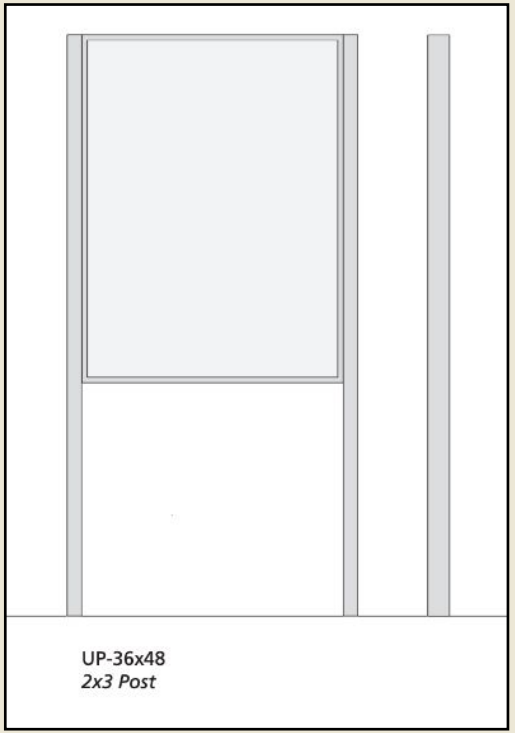
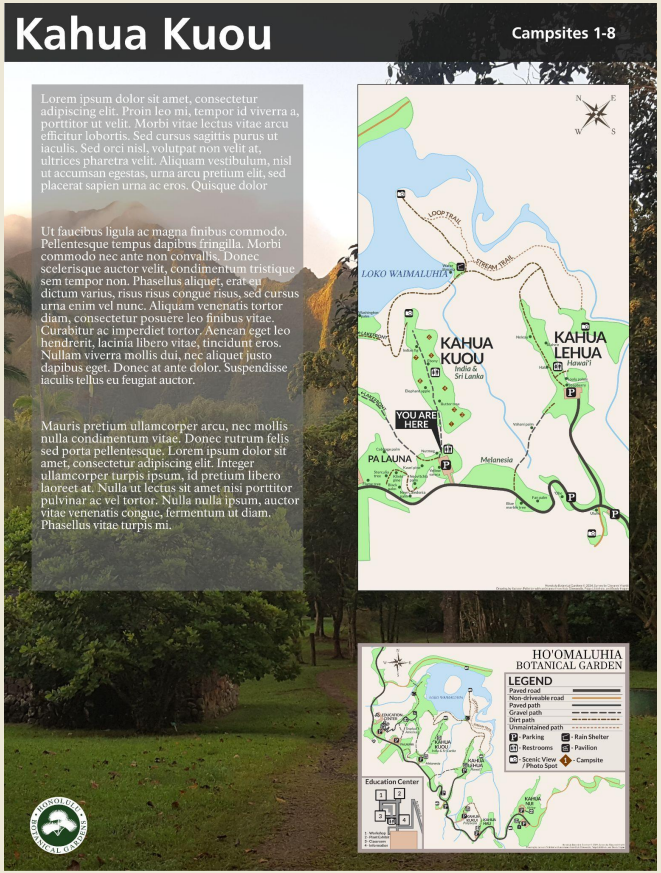


Diagram of upright signage

Trailhead Specifications

- Trailhead signage should be in upright format.
- Signs should be mounted 32" off the ground (NPS standard) and will be 36"x48" with 2x3 posts.
- Signs should be made of Custom High-Pressure Laminate (CHPL).
- Posts should ideally be made out of galvanized steel.



Loko Waimaluhia

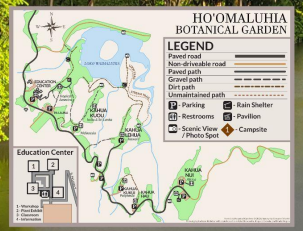
Fishing
Sightseeing

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Kahua Lehua

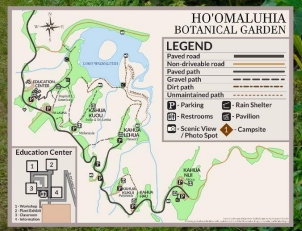
Campsites 11-16

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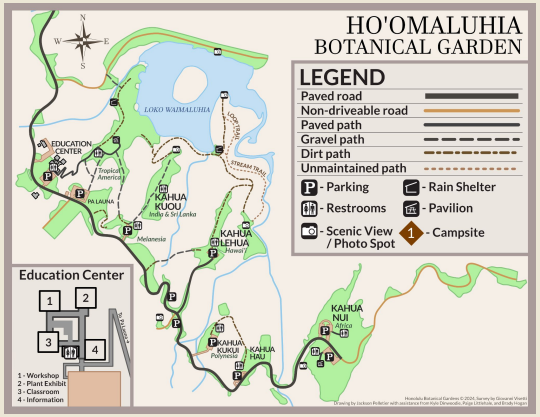


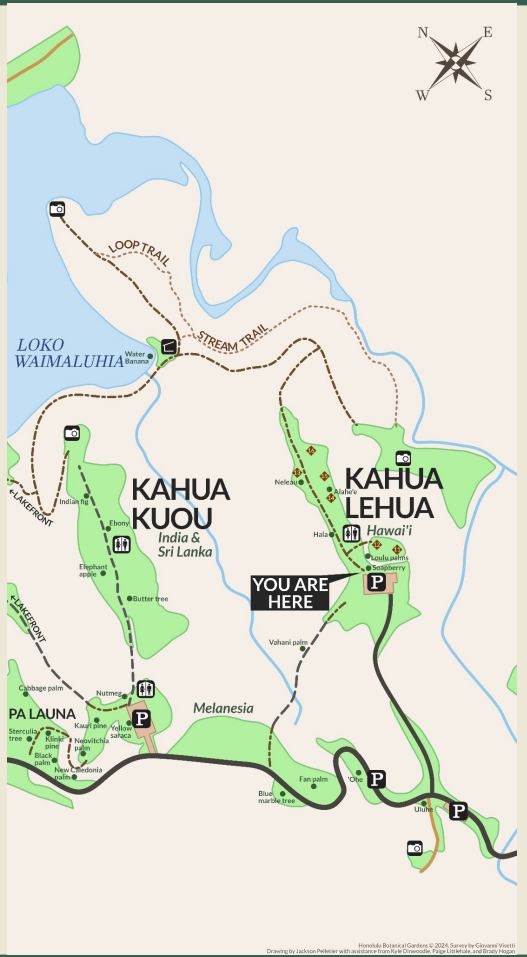
Trailhead Maps

Cropped and focused on specific areas

All line weights adjusted vs handheld map

Features locations of notable plants and relevant campsites







Roofing

- Roofing is also recommended but optional based on budget.
  - Will require 3x5 posts.

- Companies like Wood Product Signs, Rocky Mountain Aluminum Sign and Supply, or FOSSIL Graphics are viable sources to acquire signage.

FOSSIL
INDUSTRIES

Wood Product SIGNS

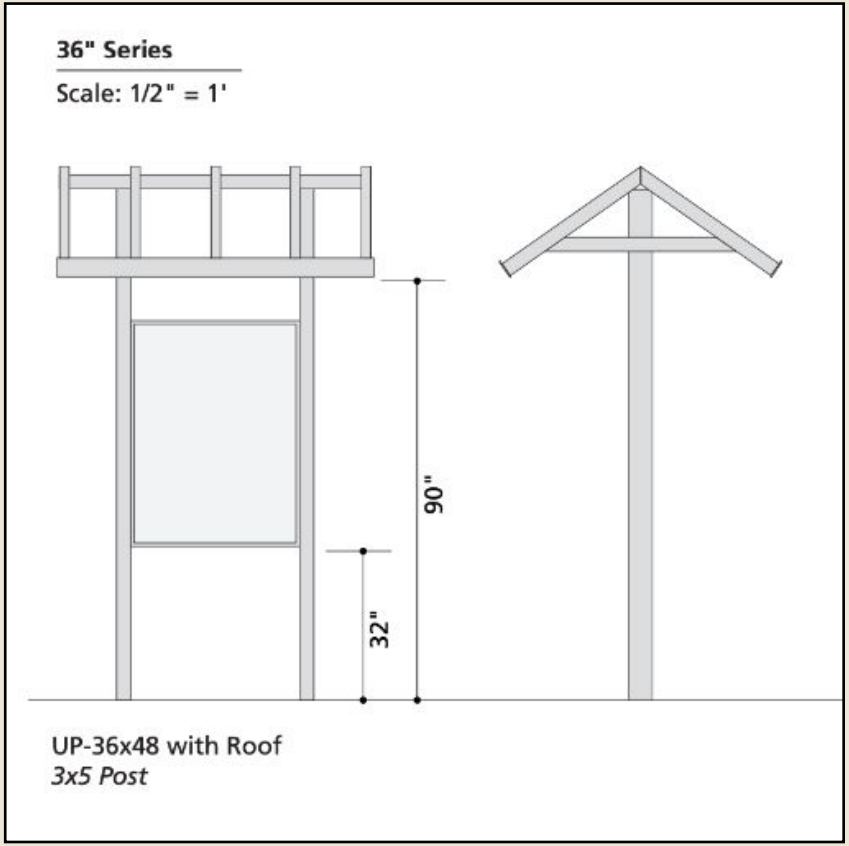
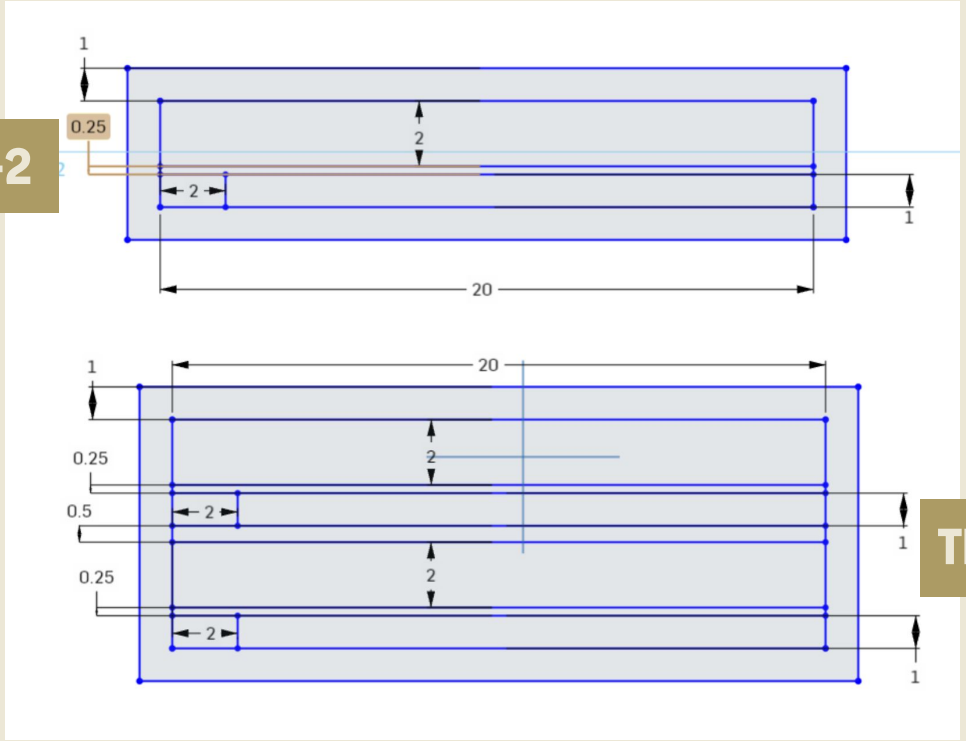


Diagram of upright signage with roofing

Junction Signage

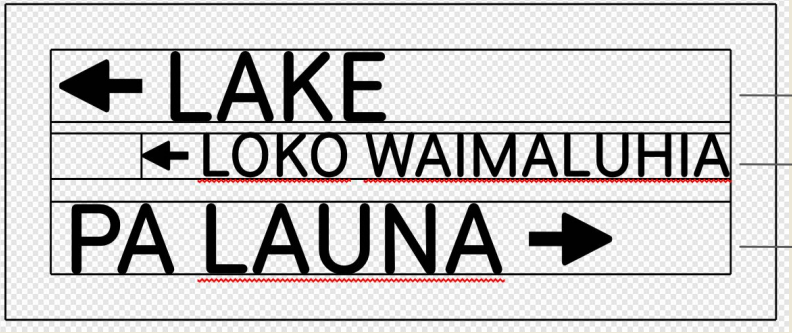
TD-2



TD-4

- Dimensions in inches
- Length can vary with sign content

Junction Signage Templates



English

Hawaiian

Hawaiian



English

Japanese or Hawaiian

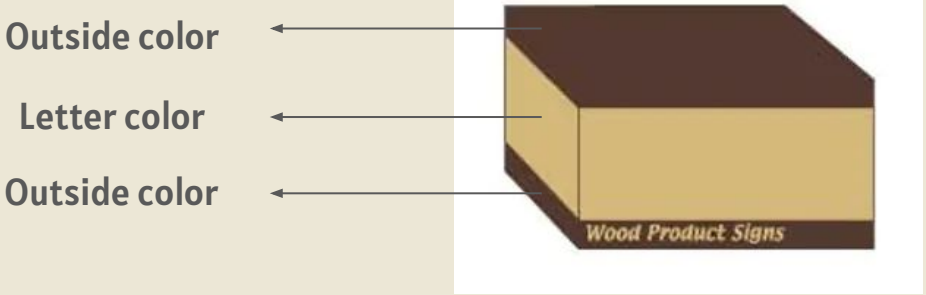


Distance

Terrain

Junction Signage

Materials: Junction signage should be made out of HDPE with galvanized steel for the posts. The signs will be routed.



Company: Wood Product Signs

Wood Product SIGNS


Mahalo!
Any Questions?

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