**Hawai‘i Exploratorium**

An interactive educational space for exploring Hawai‘i’s rich natural and built history while learning about how anthropogenic forces are shaping the islands’ future. The Exploratorium building also offers community gathering space, including:
- Library and Digital Education Center
- Child Day Care Center
- Public stage and reservable space
- Potential space for a school to meet future needs

**Dechanneling Wailani Canal**

Dechanneling Wailani Drainage Canal will allow water to flow in a semi-natural state, while providing space for the stream to swell during times of heavy rain. Benefits may include:
- Enhanced habitat for wildlife and opportunity for native vegetation
- Decreased water and air pollution
- More aesthetically pleasing
- Better flood protection and area for water overflow

**Wailani Walk**

Waipahu in Hawaiian translates to “bursting waters.” This walkway is provided flow between people and the natural environment, and allows people to coalesce across generations. The promenade provides the following benefits:
- Increased physical and mental health
- Space for people to take respite
- A place for happenstance, where users can connect between Waipahu District Park, Palwa Street, and the Pearl Harbor Historic Bike Trail
Site Overview

Community Needs Implementations
- Family entertainment venues
- Playgrounds, picnic tables, evening activities
- Activated public spaces for safety
- Improvements to bus stops with waiting spaces
- Improved landscaping and shade trees
- Neighborhood cafes and shops
- Centralized parking
- Affordable housing

Complete Streets Implementations
- Trash bins
- Street lighting
- Protected pedestrian crossings

Key Numbers
- 157 affordable housing units
- 255 retail jobs created
- 446 specialized jobs created
- 300 parking spaces added (current 700 spaces)

State Goals Met
- Increased housing
- Redevelopment of Waipahu Library and Civic Center
- Mixed-use housing
- Elementary school facilities (re-use anticipated in Hawai‘i Exploratorium)

Precedents
The Pouhala rail station in Waipahu will be supportive of the idea of flow and coalescence in the living environment—of water, people, generations, culture, and history.

The parcels being redeveloped support flow and intergenerational connection through the absence and removal of barriers between parcels and uses, allowing residents and visitors to coalesce around gathering places, the natural history museum, and the diversity of culture in the area, which creates a place that everyone in the community can be proud of and engage with.

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**Flow**

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**Regional Map**

**Circulation Map**

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**Radial Map**

Affective distance to key destinations within and outside the Waipahu TOD, according to estimated travel time using different modes of travel.

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**Site Bubble Diagram**

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**SITE ANALYSIS**

WAIPAHU, HAWAI‘I | DECEMBER 2017

Prepared by Aida Arik, Bear Braich, Laura Mo, Amanda Rothschild, Brandon Soo, Grace Wolfi for UH PLAN 678, Fall 2017
**Wailani Place** celebrates the intertwining of water, history, and culture by providing a free-flowing green space to connect and rejuvenate the community.

**Place Names**
- Waipahu: Bursting water
- Waikele: Muddy water
- Wailani: Heavenly water
- Pouhala: Hala (pandanus) posts

**Street Names**
- Hikimoe: Place to rest
- Mokuola: Island of health
- Moloalo: Main stream into which branches enter
- Kau: Summer
- Olu: Cool, refreshing, comfortable, pleasant
- Kaihualani: Site of Heaven
SITE OVERVIEW

1. Hikimoe Street - Neighborhood Retail/Restaurants
2. Hikimoe Street - Complete Street
3. Pedestrian & Bicycle Pathway
4. Pedestrian & Bicycle Bridge
5. Multi-use Community Plaza
6. Maker’s Space & Community Kitchens
7. Public Library
8. State Social Service Providers
9. Waiānani Canal Softening & Widening
10. Waiānani Canal Walk
11. Waiāpahu Floodable Fountain Feature
12. Interactive Floodable Spaces
13. Adaptable Parking Structure & Rooftop Gardens
15. Senior Housing Consolidation & Improvement
16. Mokuāloa Vista Apartments

Square Footage: 432,500
Stories: 5
Walk time to Station: 4-6 min
Features: Rooftop community garden space, adaptable garage design, park headquarters, facilities and storage for groundskeeping, maintenance, and security.

Square Footage: 126,000
Stories: 1 for library, 6 for services
Walk time to Station: 2-3 min
Features: High-speed Internet access, trainings that will interest the community, reading and writing space, open concept deck, multi-level public space, and increased space for social services.
WATER was an essential element to the functioning of Waipahu’s Sugar Mill let alone its people, both past and present. Our vision is to restore WAILANI CANAL as a LIFE SOURCE and GATHERING PLACE for the Waipahu community, using it as a pathway to CONNECT its historically rich past to its blooming future.

The Health and Wellbeing of the Waipahu community will be facilitated through the REJUVENATION of the 6 state held parcels to help meet the community’s BASIC NEEDS, SUPPORT LIVELIHOODS, and PUBLIC SERVICES.

WAILANI CANAL
LIFE SOURCE
REJUVENATE.
CONNECT.
GATHER.
HEALTH & WELLBEING

Meet Basic Needs
Supports Livelihoods
Public Health Services

Building #1 (4-Story Mixed-Use)
- Department of Accounting and General Services (DAGS)
  - Library (1st Floor)
  - After School programs
  - Adult/Child Daycare

Building #2 (3-Story Mixed-Use)
- Workout Gym
  - Yoga/Dance Studio
  - Boxing/MMA Gym

Building #3 (4-Story Mixed-Use)
- Retail (1st Floor)
  - Bike/Skateboard Shop
  - Coffee Shop
  - Convenience Store (7/11, Deli)
  - Bike Shop
  - Studio Apartments (2nd - 4th Floors)

Building #4 (4-Story Mixed-Use)
- Small Business Retail Market (1st Floor)
  - E.G. South Shore Market
  - Cater to Residential Market
  - Pub/Sports Bar (2nd Floor)
  - Office Space (2nd Floor)
  - Housing (3rd-4th Floors)

Building #5 (6-Story Mixed-Use)
- Corner Convenience Store (1st Floor)
  - Office Space (1st Floor)
  - Bank
  - Insurance
  - Medical (1st Floor)
  - Pharmacy
  - Housing (2nd-6th Floor)

Building #6 (6-Story Mixed-Use)
- Medical (1st Floor)
  - Pediatrician
  - Medical Clinic
  - Dentist
  - Diagnostic Lab
  - Urgent Care
  - Retail/Restaurants (1st Floor)
  - Dine-In/Take-out
  - Cafe
  - Vitamin Shop
  - Sports Shop
  - Housing (2nd-4th Floors)

Building #7 (3-story Mixed-Use)
- Retail/Restaurants (1st Floor)
  - Coffee Shop
  - Ice Cream Parlor
  - Bakery
  - River Walk Restaurants
  - Housing (2nd-6th Floor)

NOTE:
1) Minimum 30% Affordable Housing in each housing block
2) Affordable housing will be mixed throughout development to promote diversity and community interaction
3) No parking will be provided to promote TOD and alternative transportation
4) A portion of the resulting savings in transportation costs can be applied to servicing a mortgage or paying rent on a home that may be larger and have more amenities than they would otherwise be able to afford.