KAPĀLAMA CANAL CATALYTIC PROJECT

State TOD Council
January 12, 2021

Harrison Rue
Where We Left Off

1. PAC Meeting #2: December 2016
2. Public Workshop: January 2017
3. Master Plan: September 2017
4. State of Hawai‘i Sea Level Rise Vulnerability and Adaptation Report: December 2017
5. City & County of Honolulu Sea Level Rise Guidance: June 2018
6. Mayor's Climate Change Directive: July 2018
Project Boundaries
Project Goals: Community

- **Linear Park**
- **Streetscape**
- **Footbridge**
- **Activity Area**
- **Partner Public Space**

- **Waterfront Trail**
- **Tree Lined Street**
- **Activity Areas**
Project Goals: Infrastructure
Project Goals: Environment

- Filtration Point
- Biofilter
- Sediment Forebay
- Addtl. Dredging

Images:
- Erosion control
- Trash catchment
- Biofilter
- Sediment forebay
2017 Master Plan: Overall Plan

- Picnic Pavilions
- Dredging
- Footbridge
- Lower trails
- Bank Stabilization
- Landscaping/Green Infrastructure
- Fitness Lawn/Plaza
- Central Green
- Shared Street
- Footbridge
- Skate park
- Complete Streets Permeable trail

Sections:
- MAKAI
- CENTRAL
- MAUKA

Nature Park
Gathering Place
Community Terrace
2017 Master Plan: Phasing

[Diagram showing various phases and projects]
2017 Master Plan: Proposed Central Street Section
2017 Project Goals

COMMUNITY

SOCIAL

BUILT

NATURAL

INFRASTRUCTURE

ENVIRONMENT
2019 Project Goals

RESILIENCY

COMMUNITY

INFRASTRUCTURE

ENVIRONMENT
Enhanced Flood Protection Strategies - Generic

1. Tide gate structure + pumping (tidal + storm)
2. Onstream barriers (tidal + storm)
3. Upstream detention / Offstream diversion (storm)
Enhanced Flood Protection Strategies - Project Focus

1. Tide gate structure + pumping (tidal + storm)

2. Onstream barriers (tidal + storm)

3. Upstream detention / Offstream diversion (storm)
Flood Barrier Strategies - *Onstream focus*

**Permanent Options**

- Floodwalls
- Bulkheads
- Levees / Berms
- Raised Roadways / Curbs / Sidewalks
Central Canal Plan

Pedestrian footbridge
- raised to DFE level with floodwall ramps
- monumental stairs w/ platform seating

Raised path
- raised to DFE level with floodwall ramps
- platform seating on canal side
- steps/sloped lawn on street side

Continuous floodwall
- integrated planter, lawn, and bench path side
- stabilized rip-rap canal side

Pier park
- at sidewalk level
Central Canal: Section D, typ. (SLR +3.2')

NOTES
1. POSITION, SPECIES, & ROOT CONTAINMENT OF NEW TREES TO BE DETERMINED AS FLOODWALL DESIGN DEVELOPS SUCH THAT TREES DO NOT DIMINISH INTEGRITY & FUNCTIONALITY OF EMBANKMENT SYSTEM
2. GRAVITY RETAINING WALL INDICATIVE ONLY. FLOODWALL TYPE SELECTION TBD.
Central Canal: Section E, typ. (SLR +3.2')

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Central Canal: Section F @ Pier Park (SLR +3.2")
Outlines key design principles:

- For City agencies updating policies and regulations
- Focused on urban areas vulnerable to sea level rise (SLR) and other climate hazards
- Includes approaches to consider in designing building sites and structures
- To increase resilience to SLR, flooding, extreme heat, and groundwater inundation
Tower & Podium

- Locate critical systems above the BFE or DFE
- Provide sustainable roof systems
- Podium is designed to be Pedestrian scale with high ground floor transparency
- Typically located along a high-volume “complete street”
Resilient Streetscape Transition Zone

- Flood-resistant, saltwater tolerant landscaping
- Pedestrian amenities
- Shade structures
- Paths
KAPALAMA CANAL
YESTERDAY. TODAY. TOMORROW

CITY AND COUNTY OF HONOLULU
STATE OF HAWAII

TOD
HONOLULU
Transit-Oriented Development

Kapalama Canal Catalytic Project: Master Plan Improvements - DEIS 2020 - Transit-Oriented Development
1,396 views • Jul 21, 2020

The Kapalama Canal Catalytic project is the outcome of various community plans supported by the City & County of Honolulu Department of Planning and Permitting. These community plans include the Kalihi-Palama Action Plan (2004) and the Kalihi Neighborhood Transit-Oriented Development Plan (2014), which provide visions for a linear park along Kapalama Canal, a waterfront promenade, and complete street improvements along Kokea and Kohou Streets from Nimtz Highway to the H-1 Freeway. In addition to supporting the community’s visions, the Master plan will address green infrastructure and water quality improvements, erosion control, bank stabilization, resiliency.

https://bit.ly/3hg4D5r

YouTube search: “Kapalama Canal TOD DEIS”