

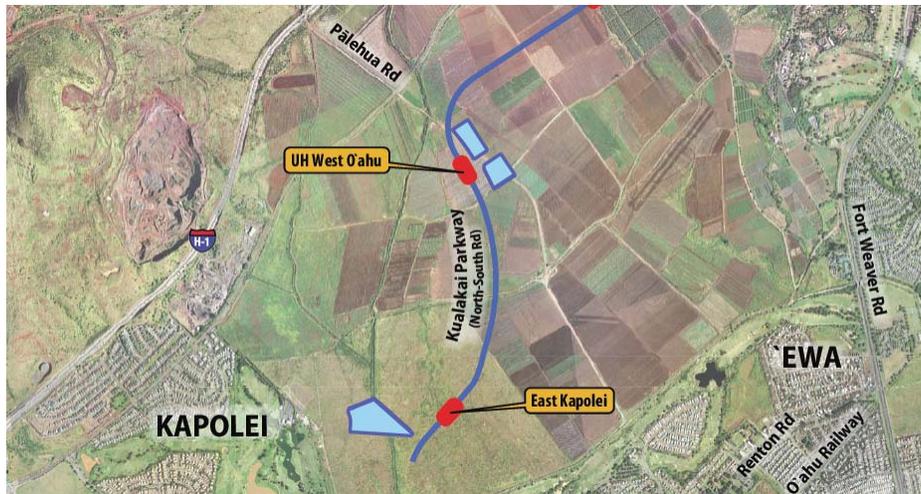
Station Development Program West O'ahu Station Group

Additional Support for Section 106
Programmatic Agreement Stipulation IV

July 29, 2013

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West O'ahu Station Group Meeting #1



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Programmatic Agreement Stipulation IV

- A. Design Language Pattern Book*
- B. Two Neighborhood Design Workshops - Special meetings with Consulting Parties are beyond the requirement.
 - West Oahu Station Group - Meeting #1 at Interim Design Stage - **WE ARE HERE**
 - West Oahu Station Group - Meeting #2 at Final Design Stage - TBD Fall 2013 to be a combined Consulting Party-Public Meeting
- C. Earliest possible opportunity for Consulting Parties to review preliminary engineering plans - already completed this review*

* Today's presentation to include additional information

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Background Studies Completed -1

1. Historic Architecture – none identified



Agricultural Fields – Aloun Farms

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Agenda

Meeting Purpose

- Introduce System-Wide programs that responds to the community comments regarding the incorporation of historical and cultural features into the station designs

System Design and Operational Features

Historical and Cultural Reports and References

- Design Language Pattern Book
- Traditional Cultural Property Reports
- Archaeological Inventory Survey Reports
- Community Input

Station Development Programs

- Aesthetic Column Program
- Station Naming Program
- Interpretative Signage Program
- Station Plaza Paving Program
- Station Art Program
- System-Wide Station Standardization Program

Station Designs

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System Design and Operational Features

- **240 ft. long platforms:** platform screen gates, seating, wind screens, canopies
- **ADA compliance:** level boarding, elevators to all levels, public address, directional and digital signage
- **6 ft x 8 ft Elevators:** for emergency stretchers, EMTs, bicycles, motorized wheel chairs, luggage, strollers, etc.
- **Accommodated inside rail vehicles:** wheelchairs, bicycles, strollers, surfboards, coolers, luggage
- **Multi-Modal Connections:** bike racks (CCTV coverage), connect to bicycles paths, pedestrian paths and trails, bus stops near stations
- **Park & Ride Lots:** 4100 spaces:
 - East Kapolei (900 spaces)
 - UH West Oahu (1000 spaces)
 - Pearl Highlands (1600 spaces)
 - Aloha Stadium (600)
 - Other locations under review
- **Patron Drop-Off:** HandiVan drop-off and kiss & ride drop off, bus stops

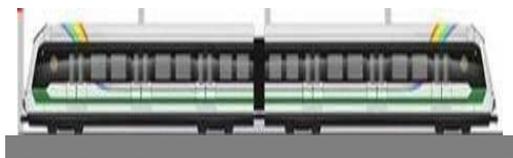
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System Design and Operational Features

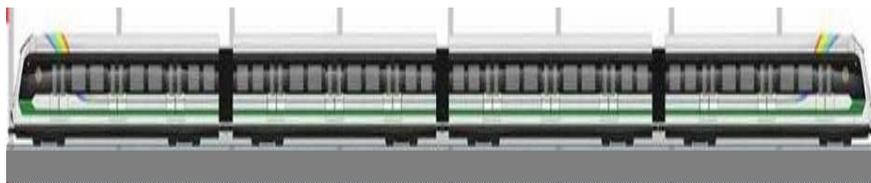
- **Single Fare, System Wide Pass**
- **Bus-Rail Coordination:** Buses rerouted to provide more frequent service from neighborhoods to rail transit centers and stations
- **Seven Bus Transit Centers at Stations:** UH West O'ahu, West Loch, Waipahu Transit Center, Pearl Highlands Station, Aloha Stadium, Middle Street Transit Center, Ala Moana Center
- **System-wide Security:** CCTV in stations and rail vehicle, emergency and information phones in stations and rail vehicles
- **Emergency Response:** Operations Center has immediate communications with HPD, HFD and EMTs, routine training of HART and first responders
- **Power Outage:** Emergency generators available during power outages

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Train Configuration



400 passengers max., 2.5 minutes headways,
7780 passengers per hour per direction



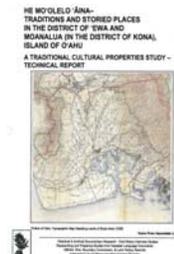
800 passengers max., 5.0 minutes headways,
8130 passengers per hour per direction

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Resource Information



Authoried by Dan Chun, Architect, FAIA



Authoried by Kumu Pono Associates,
Kepa Maly & Onaona Maly

Design Language Pattern Book

“A guide for the station colors, textures, finishes and enhancements”
- Design Language Pattern Book

“Site conditions, site circumstances, technical issues, budgets and numerous other considerations will shape final design.”
- Design Language Pattern Book

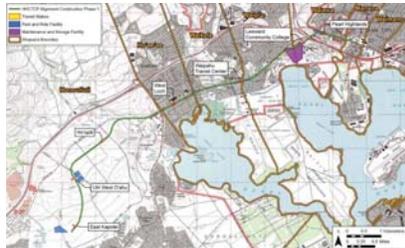
Traditional Cultural Properties Study

- Examination of the Cultural & Historical records
- Wahi Pana (Storied and Sacred Places)
- Major Mo’oleo (Legends) and Themes
- Identified Inoa ‘Āina (named places)
- Create Site Maps to locate Inoa ‘Āina
- Identify eligible sites for submittal to National Registry

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Resource Information

Archeological Inventory Survey Reports



Authoried by Cultural Surveys Hawai'i, Inc.



Account of the Natural Environment

- Soils, rainfall, terrain & waterways

Historical Background

- Political and Cultural
- Agricultural
- Land use and ownership
- Military

Mythological and Traditional Accounts

- Hawaiian Mo’oleo (legends)

Community Comments

Total 300 comments considered

Private Stakeholders

Government Agencies

Community

Consulting Parties & Others

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Aesthetic Column Program



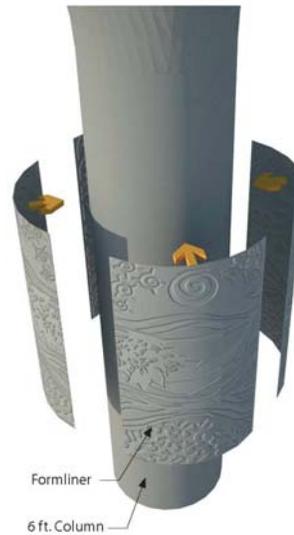
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Aesthetic Column Program

Example of Station Column Treatment Design



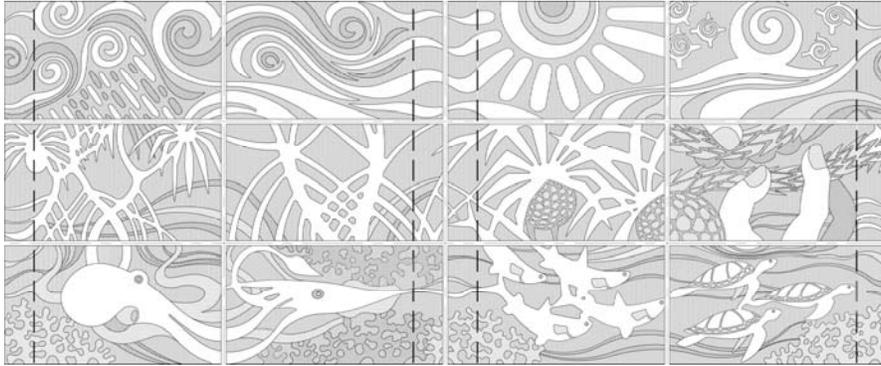
The history and stories that celebrate the past while acknowledging the present day existence that surrounds each station site...



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Aesthetic Column Program

East Kapolei Station Columns

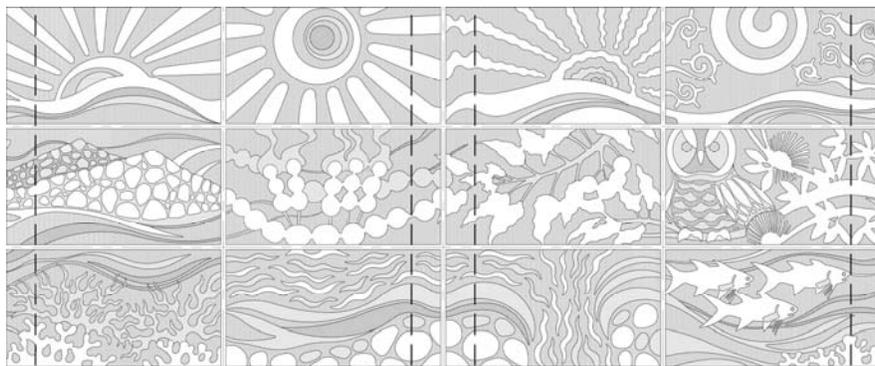


Celebrates the significance of *Pu'u o Kapolei* to Hawaiian agriculture— this hill marked the seasons of the year (winter and summer solstice) which determined the planting and harvesting of crops. Kapolei, the lei of *Kapo*, the elder sister of *Pele*; or beloved Kapolei.

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Aesthetic Column Program

University of Hawai'i West O'ahu Station Columns



Celebrates the natural beauty of Honouliuli and the mission of UH West O'ahu. *Kakahiaka*, sunrise, the transition through the day, symbolic of enlightenment. The burning torch made from the *kukui* nut oil, a symbol for *mālamalama* (light of knowledge) in the University's logo.

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Station Art Program



Departures and Arrivals, Ben Snead, MTA, New York City Transit

Site-specific Art Opportunities will include:

- Wall reliefs and murals
- Grille and fencing
- Paving designs and patterns
- Other integrated elements



See It Split, See It Change, Doug & Mike Starn, MTA, New York City Transit

Types of materials:

- Metal
- Stone
- Glass
- Concrete
- Ceramic
- Mosaic tile
- Other durable materials impervious to environmental conditions

Examples of Station Art

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Station Art Program



A selection of flowers and plants used in the lei will be celebrated on each station platform windscreen. Educational interpretative text that highlights the cultural significance or traditions of the plant selection will be included.

Windscreen Design

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Interpretive Signage Program



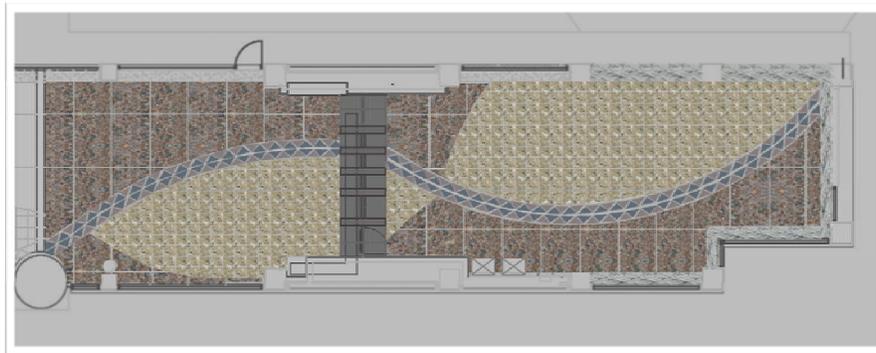
Mission Houses Museum, Honolulu

Examples of Interpretive Signage

“The interpretative plan will highlight historical themes (e.g. Native Hawaiian History, Native Hawaiian Culture, Immigrant History, Plantation Culture, Architecture, Government, Agriculture, Transportation, Military, etc..) and will interpret these themes at an appropriate station location.”

-Programmatic Agreement, VII.A

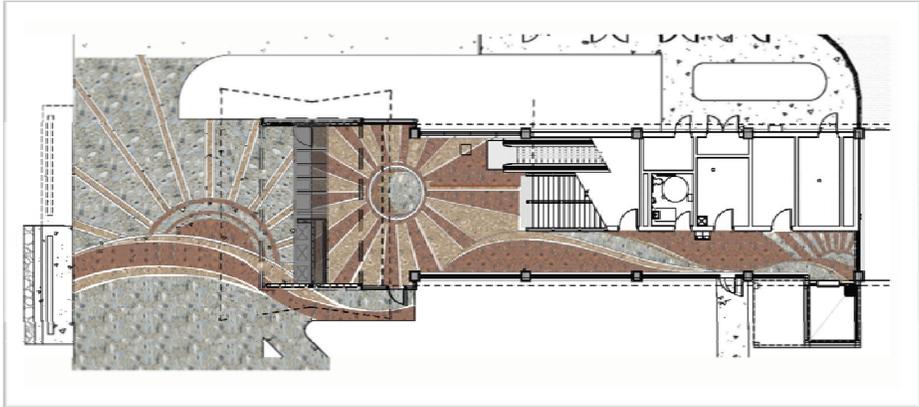
Station Plaza Paving Program East Kapolei Station Entrance



Lei Hala—Makaloa Mat Pattern—
Celebrates the *Ka makani (winds)* that sweeps down from the mountains through the site to the ocean.

Station Plaza Paving Program

University of Hawai'i West O'ahu Station Entrance

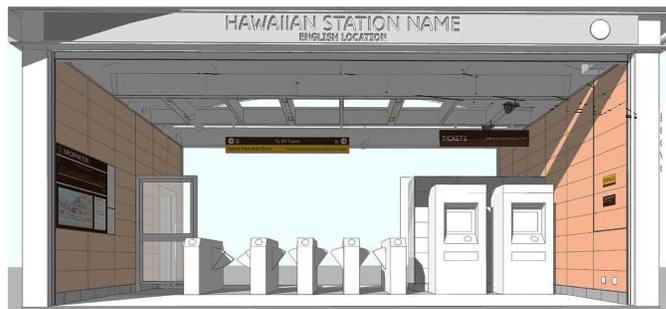


*Seasons of Growth—Coming Into the Light—Enlightenment
Ka makani (wind) and seasonal elements represented by the specific times of the day*

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Station Naming Program

HAWAIIAN STATION NAME
STATION LOCATION



Station Entry Module

*"Provide a functional identity for the system as a whole through the use of standard elements that will enhance wayfinding and ease-of-use for patrons, while also improving cost-effectiveness."
-Compendium of Design Criteria*

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System-Wide Station Standardization Program



Architectural Rendering of Platform Canopy

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Value Engineering & Modifications to the 2009 Preliminary Engineering

- Development of the Station Standardization Program
 - Fare Gate Module
 - Stair, elevator, escalator configuration
 - Reduction canopy area
 - Reduction in the area of University of Hawai'i West O'ahu bridge & entry structure
- Delete Mauka Entry Structure at University of Hawai'i West O'ahu Station
- Delete pedestrian bridge over Kualaka'i Parkway at East Kapolei Station
- Reconfiguration of University of Hawai'i West O'ahu Station makai entry
- Development of Station Art and Culture Programs

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East Kapolei Station

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East Kapolei Station Site Context



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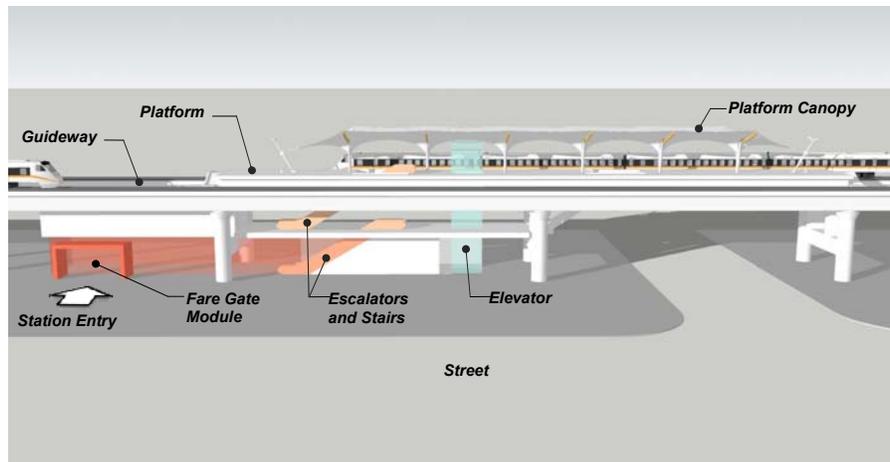


East Kapolei Station - Overall Site Plan

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Station Standard Components & Function

Center Platform

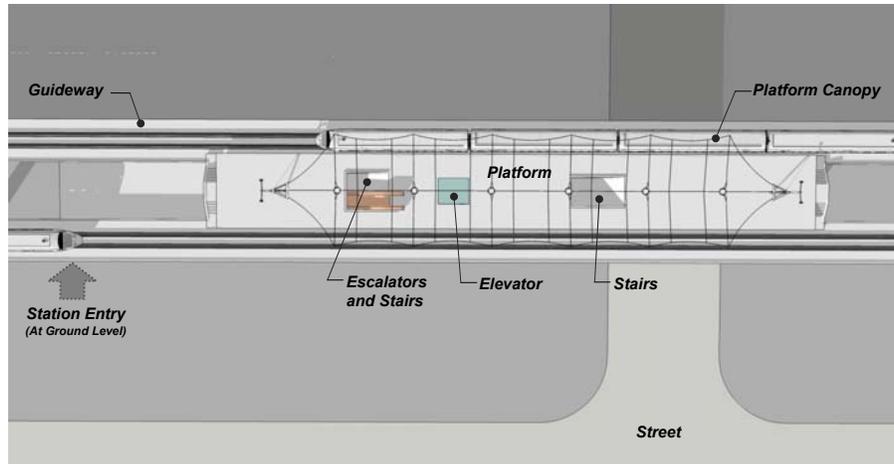


Supports & Structures

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Station Standard Components & Function

Center Platform



Supports & Structures

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East Kapolei Station Entrance

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East Kapolei Station – Aerial View

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University of Hawai‘i West O‘ahu Station

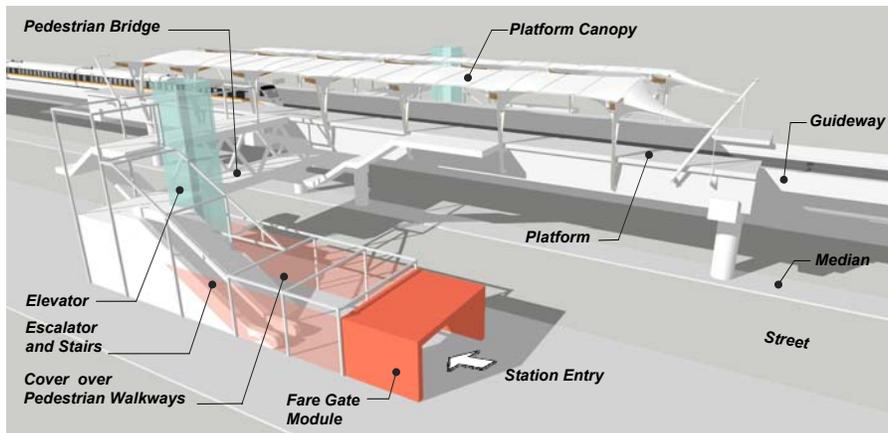
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UH West O'ahu Station Site Context



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Station Standard Components & Function Side Platform



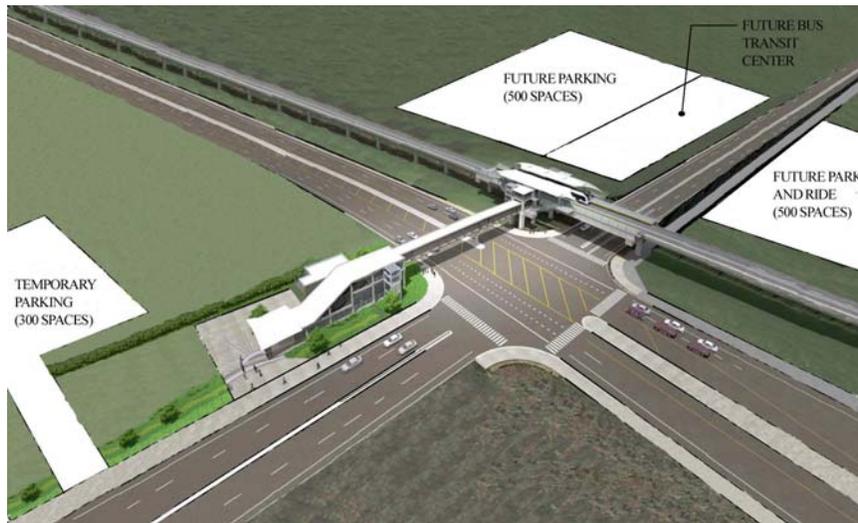
Supports & Structures

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University of Hawai'i West O'ahu Station – Aerial View

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University of Hawai'i West O'ahu Station – Park and Ride Lots

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University of Hawai'i West O'ahu Station Entrance

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Q & A

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