

Honolulu High-Capacity Transit Corridor Project Alternatives Analysis

Community Update Meeting 11 Summary Report

April 6, 2007

Prepared for:
City and County of Honolulu

Prepared by:
Parsons Brinckerhoff Quade & Douglas, Inc.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of a data-driven approach in decision-making and the need for continuous monitoring and improvement of data management practices.

The eleventh Community Update meeting was held on Tuesday, October 24, 2006 at He'eia Elementary School Cafeteria. It was attended by approximately 15 people.

Attached is the meeting agenda, a copy of the PowerPoint presentation and a copy of the sign-up sheet.

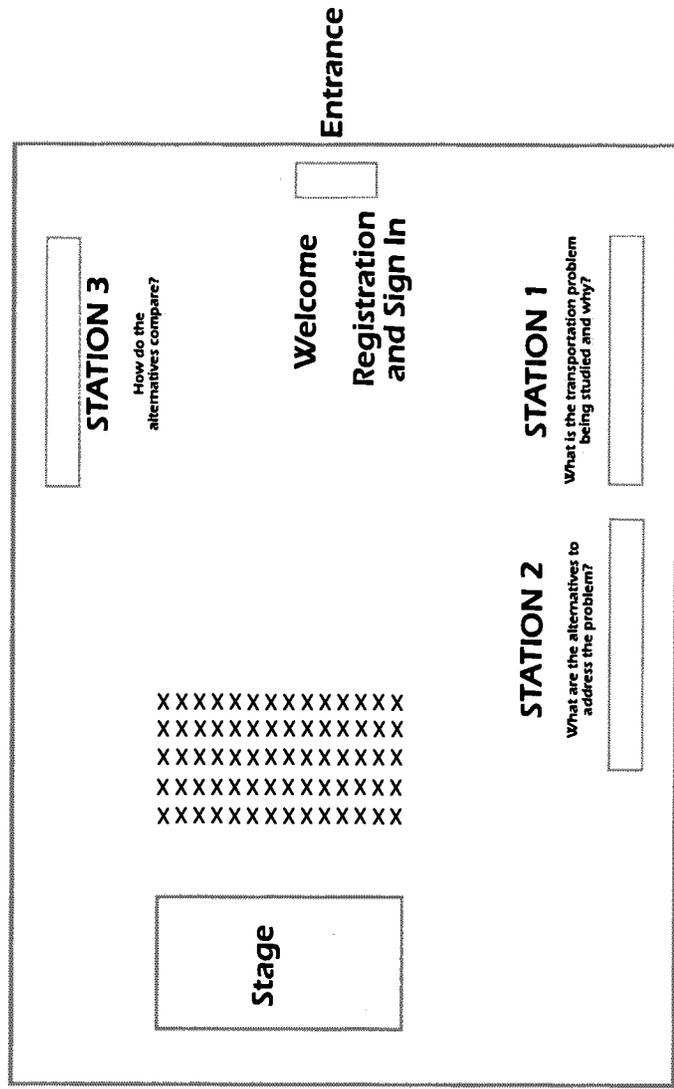
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COMMUNITY UPDATE AGENDA

Tuesday, October 24, 2006
7:00 p.m. - 8:30 p.m.

Heeia Elementary School Cafeteria

- 7:00 p.m. - 7:30 p.m.
Registration
Visit Stations
Meet with Project Team
- 7:30 p.m. - 8:00 p.m.
Formal Presentation
- 8:00 p.m. - CLOSING
Visit Stations for Q & A



Heeia Elementary School Cafeteria Floor Plan

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

Honolulu On The Move

An Update on the Honolulu High-Capacity Transit Corridor Project

Community Update

October 24, 2006

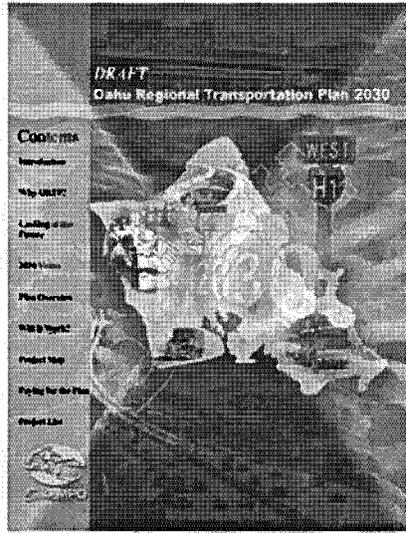
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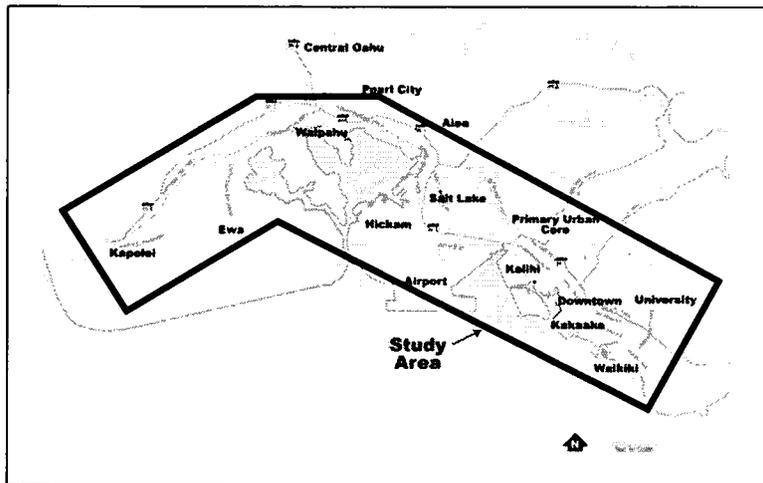
Introduction

- Project Corridor
- Purpose
- Alternatives
- Comparisons of Alternatives
- Schedule

Corridor Designated by the O'ahu Regional Transportation Plan



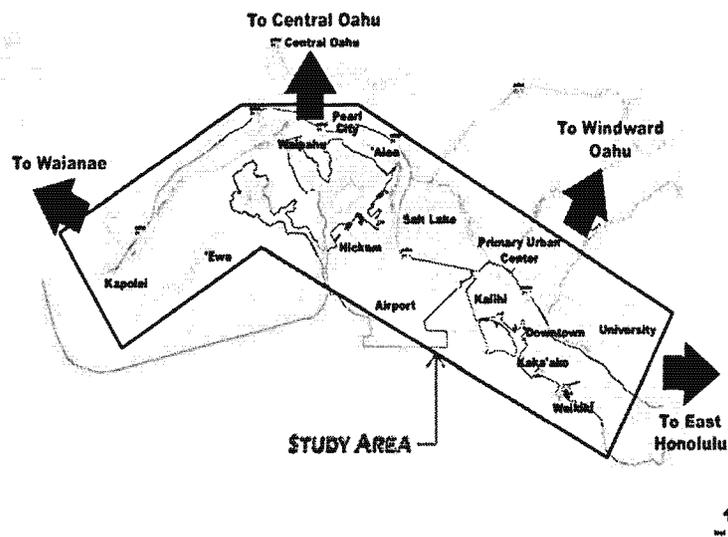
Honolulu High-Capacity Transit Corridor



Honolulu High-Capacity Transit Corridor

- Currently contains 63% of O'ahu's population
- Currently contains 81% of O'ahu's employment
- By 2030 will contain 69% of O'ahu's population
- By 2030 will contain 84% of O'ahu's employment

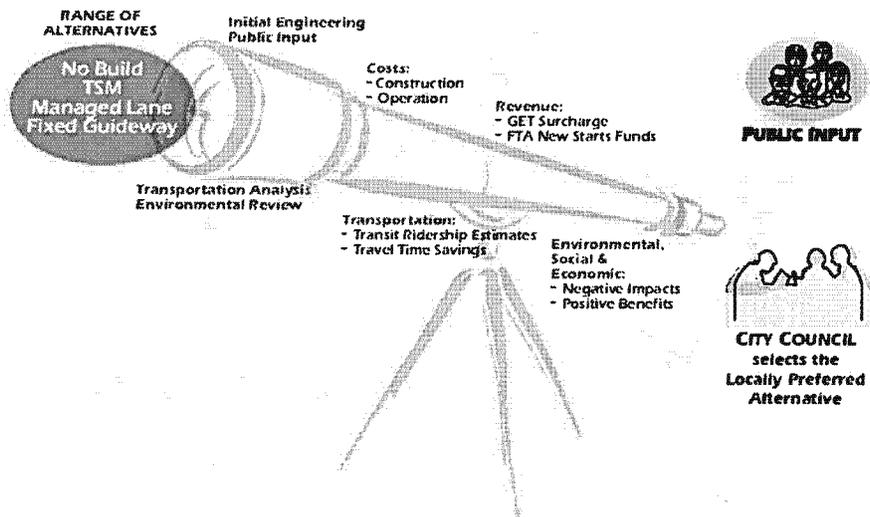
Are other areas served?



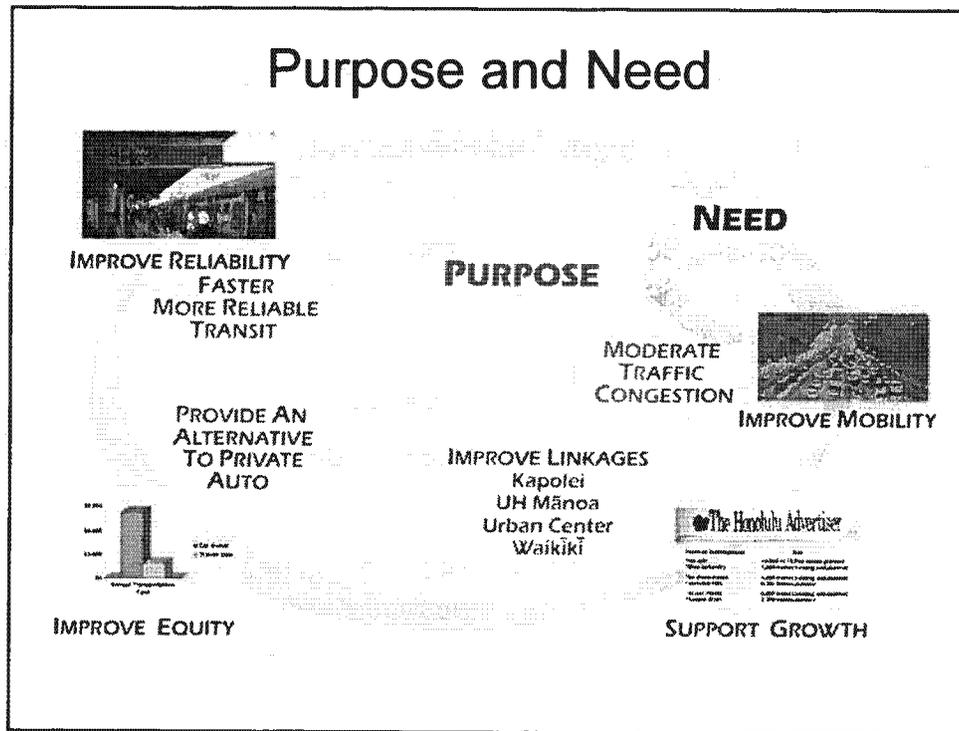
Project Development Process

- Alternatives Analysis
 - Begin Environmental Process
 - Selection of a Locally Preferred Alternative
- Preliminary Engineering and Environmental Impact Statement
 - Complete Environmental Process
- Final Design
- Construction
- Operation

Alternatives Analysis



Purpose and Need



Four Alternatives

- No Build
- Transportation System Management (TSM)
- Managed Lane
- Fixed Guideway

No Build Alternative

- Existing bus system, including currently programmed enhancements and expansion to support growth
- Projects included in the O'ahu Regional Transportation Plan - \$3 Billion in highway capacity improvements

North-South Road

Nimitz Flyover

Fort Weaver Road widening

Leeward Commuter Ferry

H-1 Improvements:

Waiawa Interchange to Hālawā Interchange widening

Middle Street to Vineyard Boulevard widening

H-1 HOV lanes (Makakilo to Waiawa)

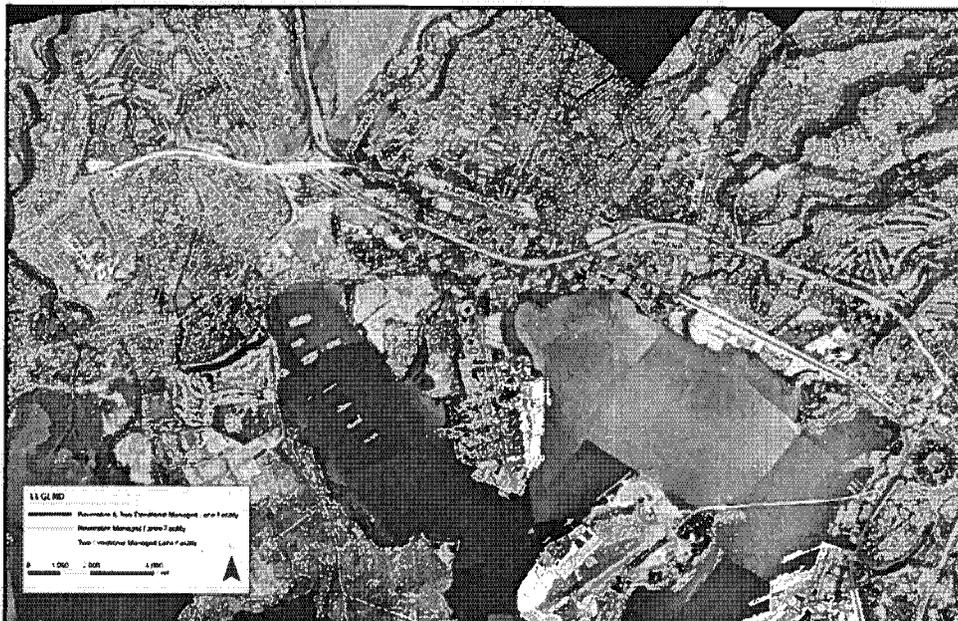
PM Zipper Lane

Transportation System Management Alternative

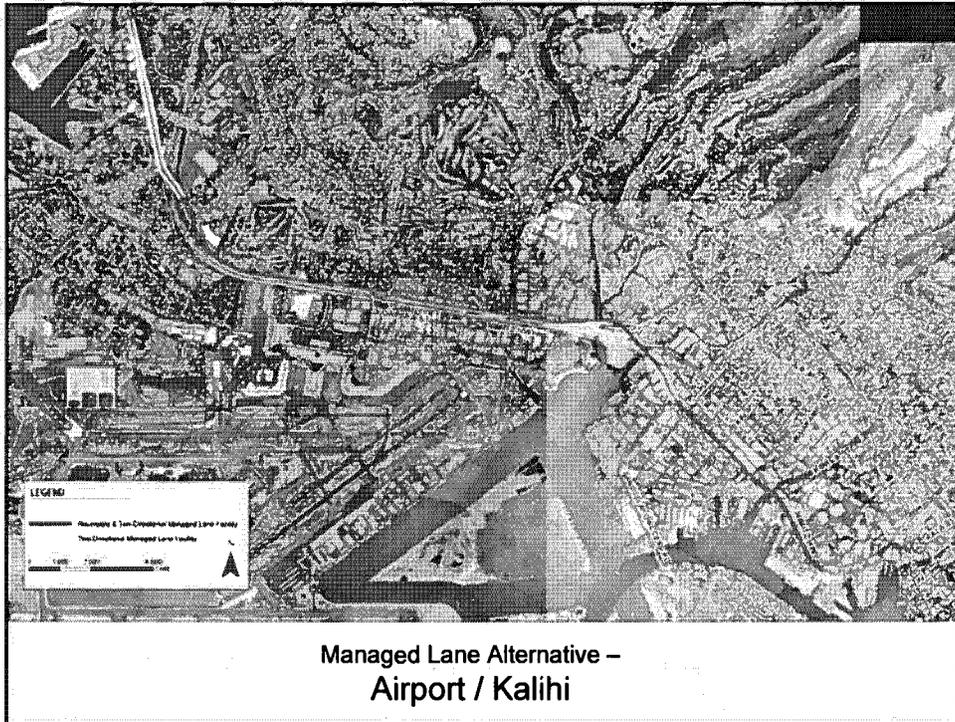
- Construction of new low-cost transit facilities:
 - Park-and-ride lots
 - Transit centers
- Expanded bus service
- Everything included in No Build

Managed Lane Alternative

- Everything included in No Build
- Construction of a two-lane grade-separated roadway from Waipahu to Iwilei
- Two options:
 - Two-lane reversible
 - One-lane in each direction
- “Manage” use of lanes, to maintain free-flow speeds for buses
- Allow up to available capacity:
 - High-occupancy vehicles (HOVs)
 - Toll-paying single-occupant vehicles (with variable pricing)

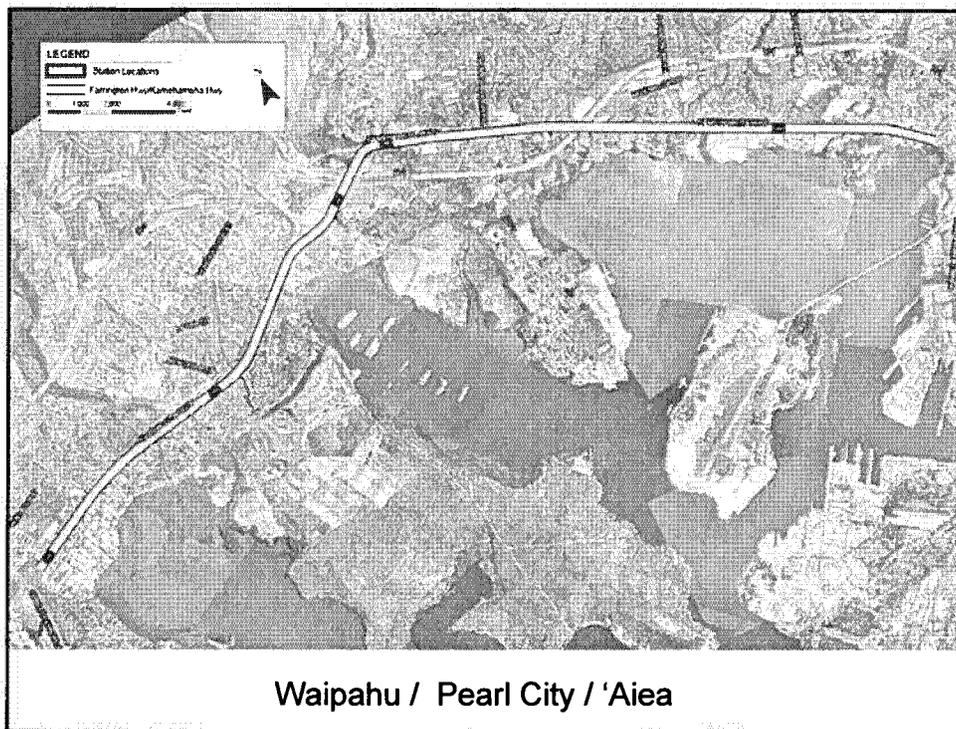
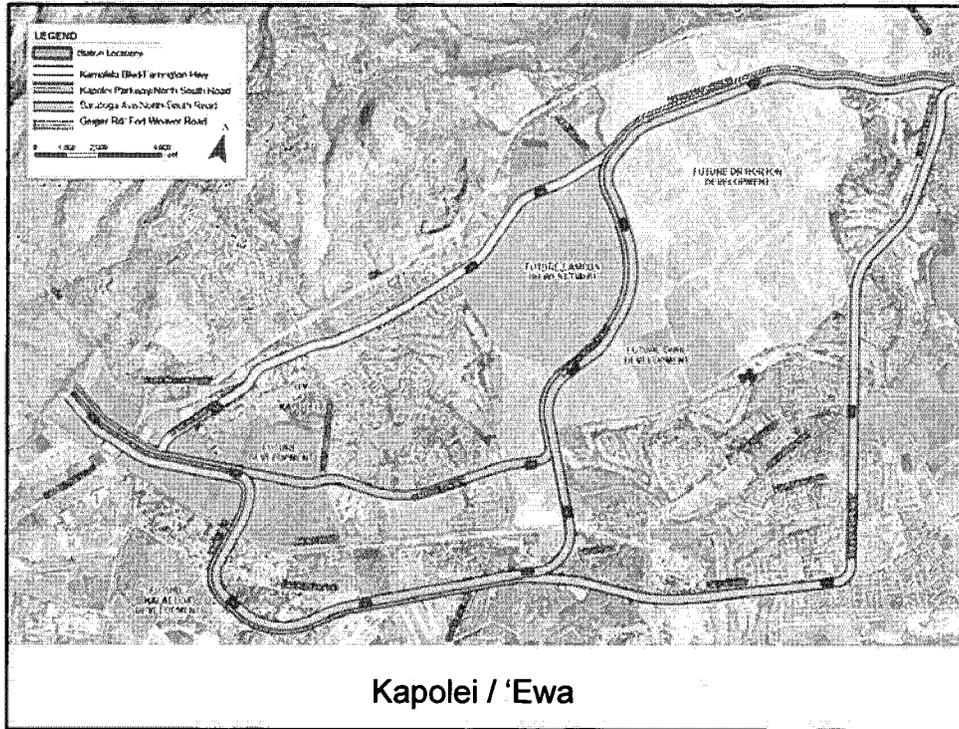


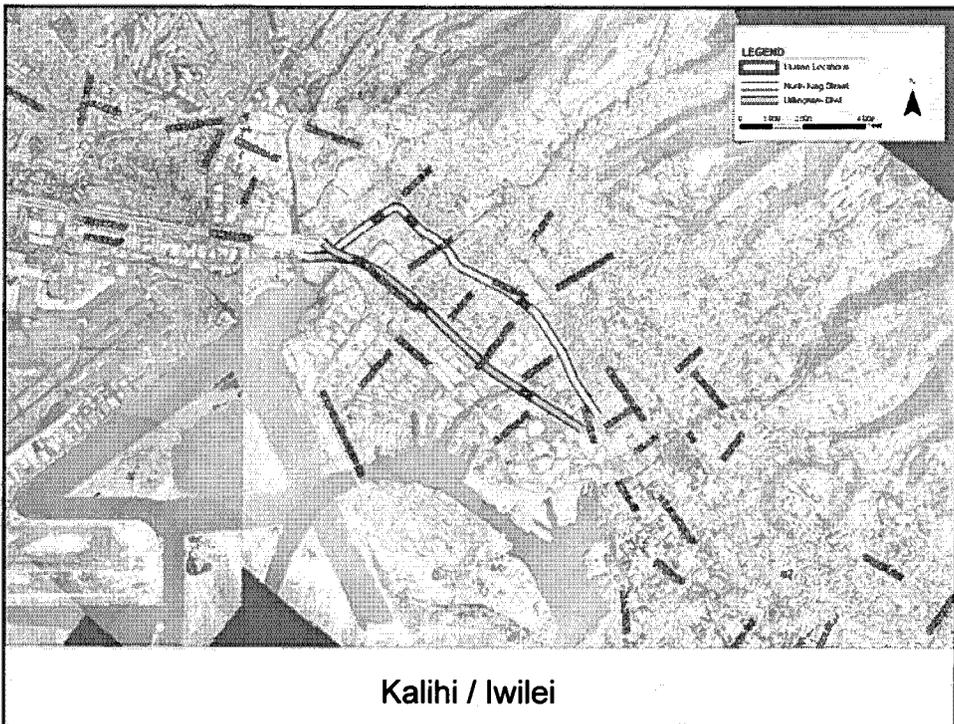
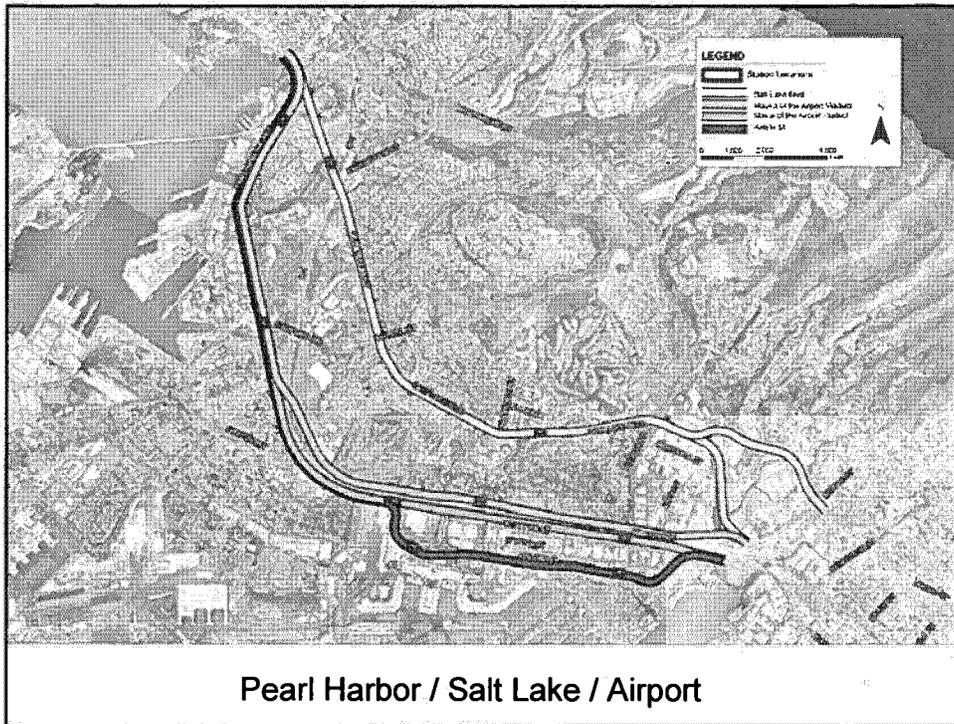
Managed Lane Alternative –
Pearl City / 'Aiea



Fixed Guideway Alternative

- Fixed guideway system
 - High Capacity
 - Reliable travel times
 - Integrated with bus, parking, bicycling and walking
- Multiple alignment options by geography
- Four technologies being considered







How long will it take?

From	To	Time	Current Bus Time
Kapolei	Downtown	~ 38 minutes	~ 60 minutes
Waipahu	Ala Moana Center	~ 28 minutes	~ 55 minutes
Pearl Highlands	Downtown	~ 22 minutes	~ 50 minutes
Airport	Waikīkī	~ 19 minutes	~ 50 minutes
UH Mānoa	Downtown	~ 10 minutes	~ 25 minutes

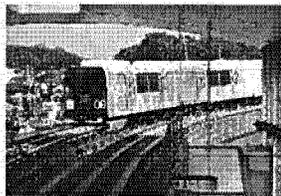
What transit technologies are being considered?



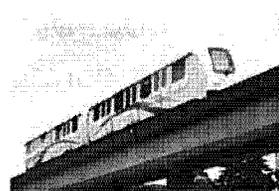
Light Rail



Monorail

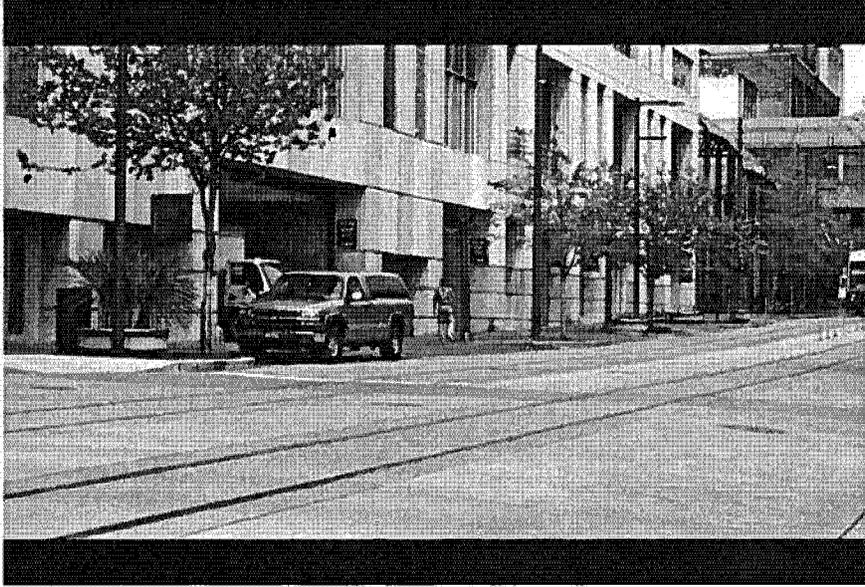


Maglev



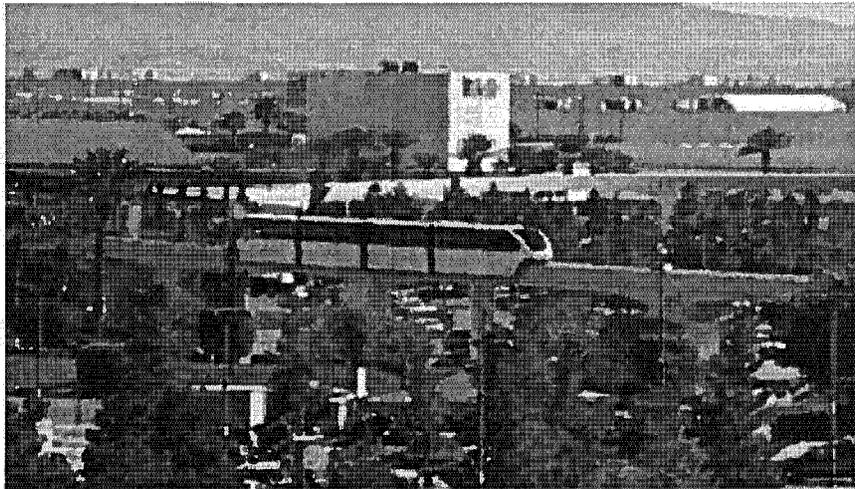
Rapid Rail

Fixed Guideway Alternative



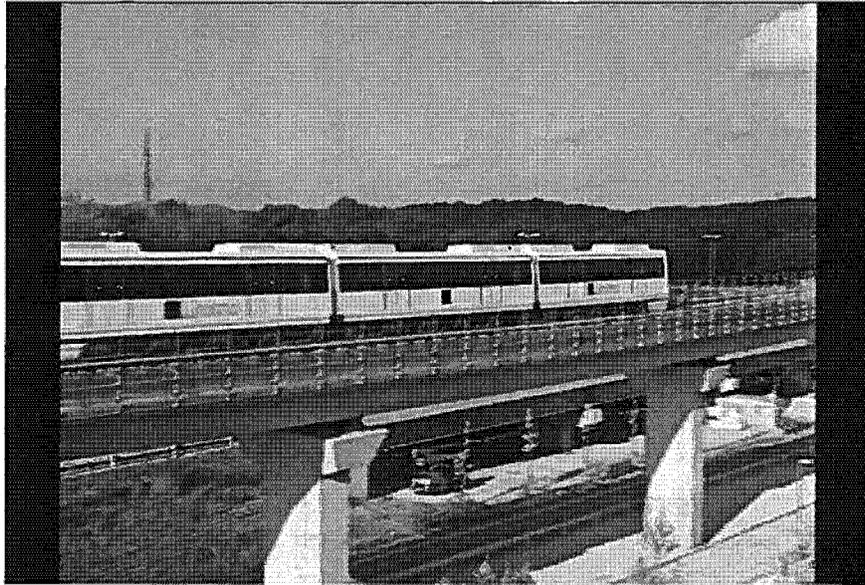
Light Rail

Fixed Guideway Alternative



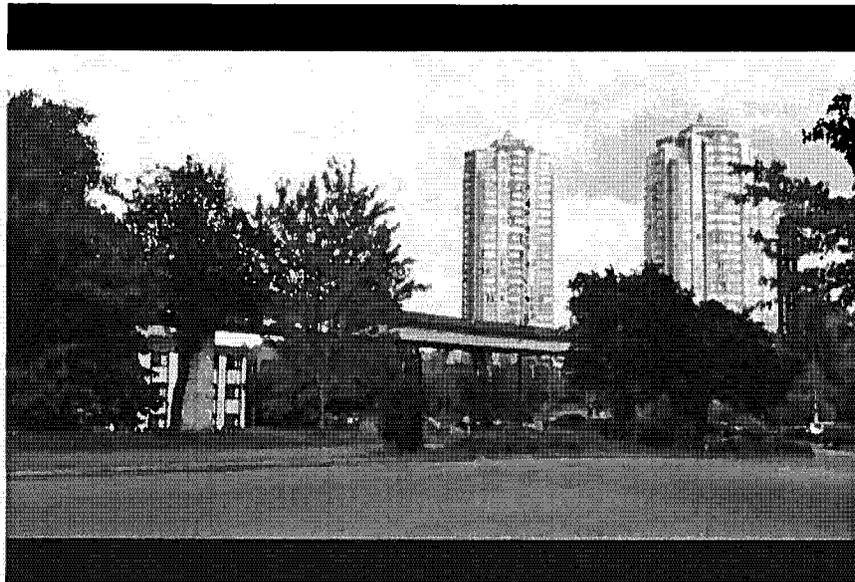
Monorail

Fixed Guideway Alternative



Maglev

Fixed Guideway Alternative

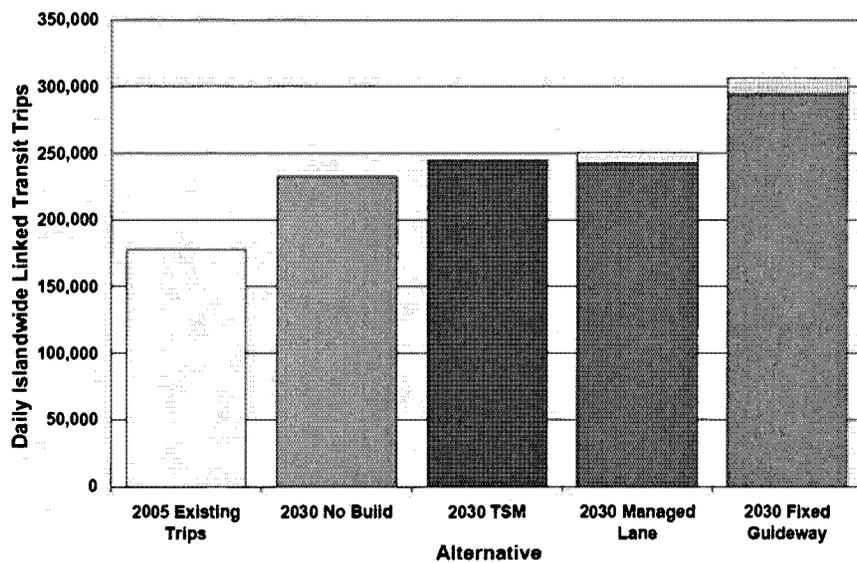


Rapid Rail

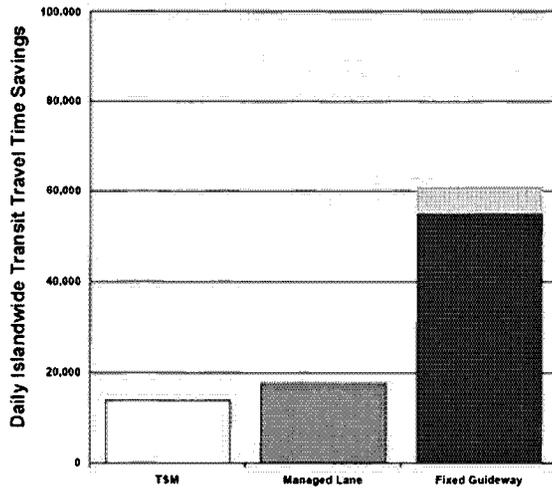
How do the alternatives compare?

- Transportation Benefits
- Cost
- Environmental Impacts

How many trips will be made using transit in 2030?

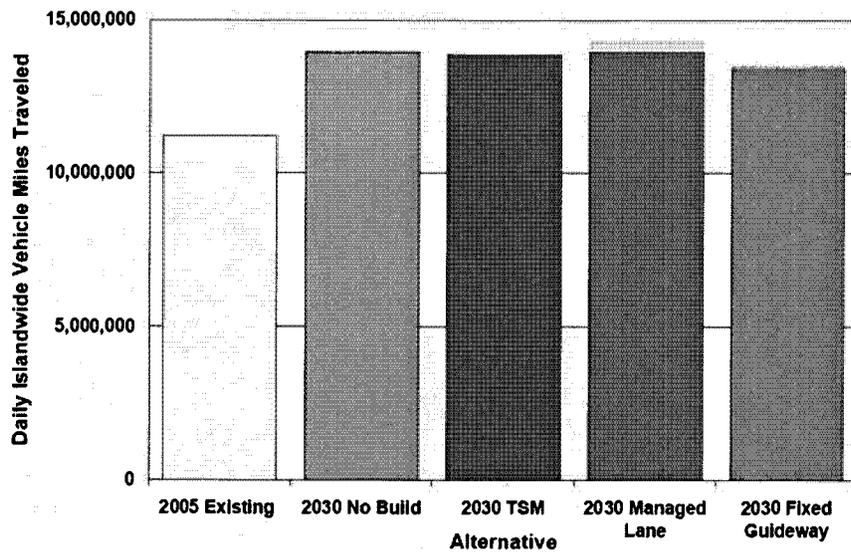


How much time will transit riders save?

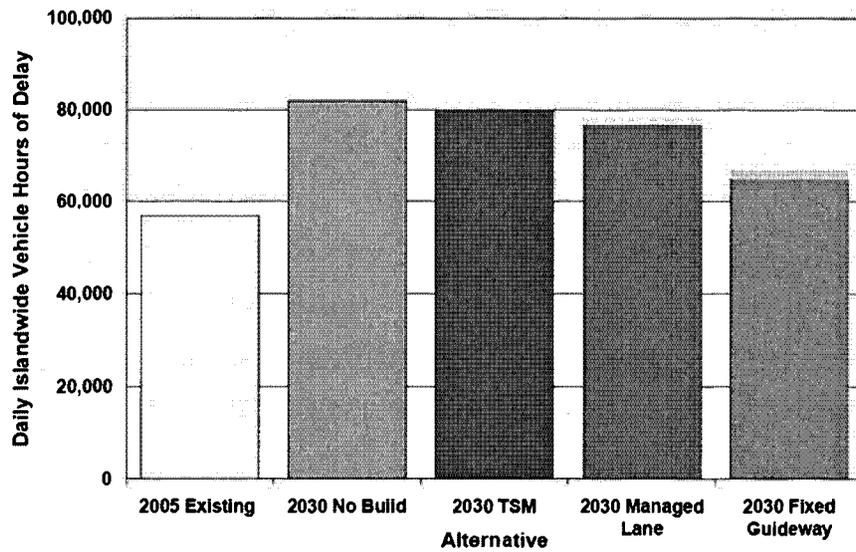


Year 2030 Daily Hours of Transit User Benefits Compared to No Build Alternative

How much will people drive everyday?



How much time will be lost due to traffic congestion?



How do the alternatives compare?

- Transportation Benefits
- Cost
- Environmental Impacts

What will the alternatives cost?

- No Build Alternative: \$600 million in bus replacement costs
- TSM Alternative: Cost of No Build Alternative + less than \$300 million in transit improvements
- Managed Lane Alternative: Cost of No Build Alternative + over \$2 billion in project costs
- Fixed Guideway Alternative: Cost of No Build Alternative + over \$3 billion in project costs

For Fixed Guideway - is there a financially prudent first project?

The analysis should include options that:

- Meet FTA guidance to consider a range of intermediate-cost alternatives –
- Are conscientious about expending taxpayer money
- Provide substantial benefit within a limited cost

Define the first project as a portion of the corridor that best meets project goals and objectives with a project budget of about \$3 billion.

How do the alternatives compare?

- Transportation Benefits
- Cost
- Environmental Impacts

How much islandwide air pollution would be generated by transportation?

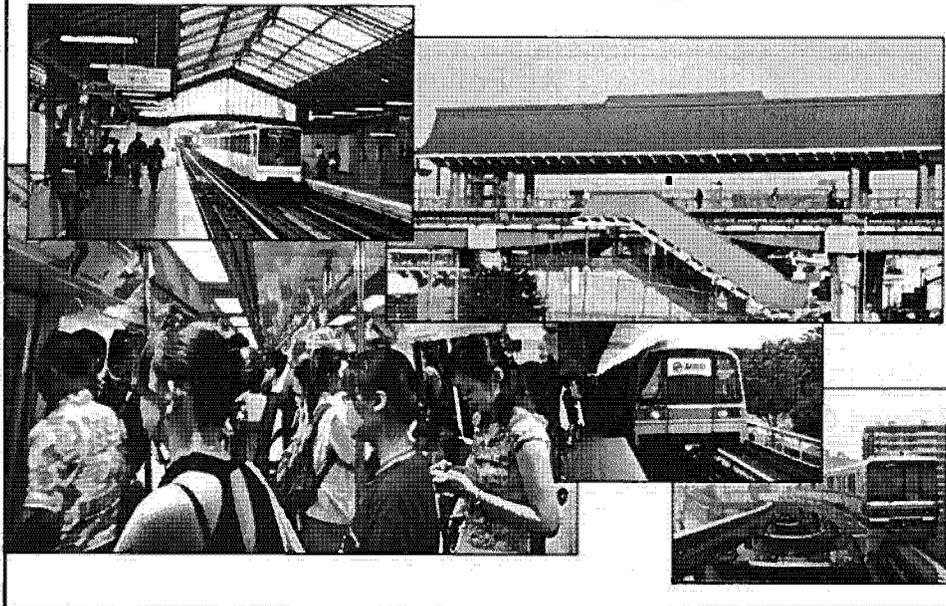
Alternative	Air Pollutant Emissions (kg/day)				
	VOC	CO	NOx	PM ₁₀	PM _{2.5}
No Build Alternative	8,040	143,000	4,780	424	203
TSM Alternative	7,980	142,000	4,750	420	201
Managed Lane Alternative					
Minimum	8,030	143,500	4,800	424	203
Maximum	8,340	147,000	4,930	438	210
Fixed Guideway Alternative					
Minimum	7,760	139,000	4,640	410	196
Maximum	7,800	139,700	4,670	412	197
Pollutant emissions reported in Kilograms per day					

How loud are the alternative technologies ?

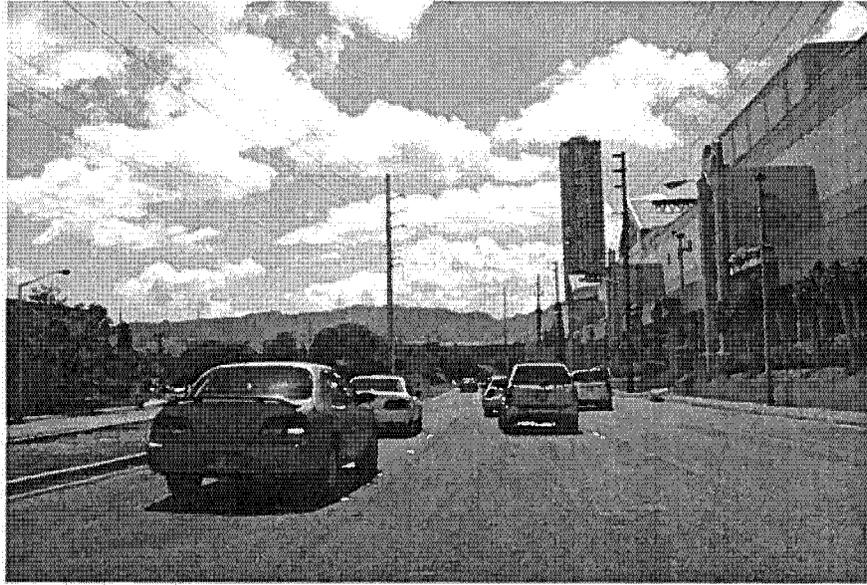
Type of Vehicle	Lmax noise level at 50 feet (dBA)				
	60	70	80	90	100
Automobile		████████			
City Bus				████████	
Light Rail			████████		
Rapid Rail			████████		
Monorail			████████		
Maglev		████████			
Delivery Truck			████████		
Dump Truck				████████	

Lmax is the maximum noise level when a single vehicle passes by.

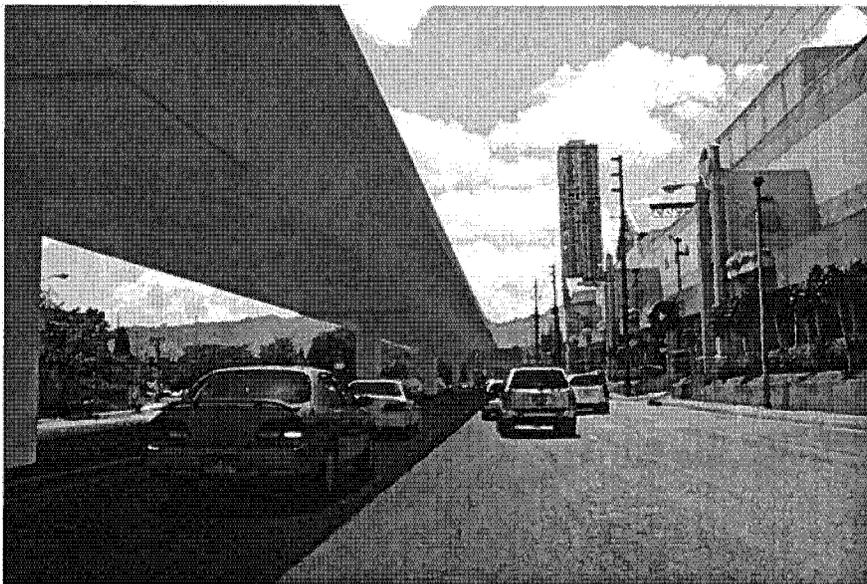
What would the alternatives look like?



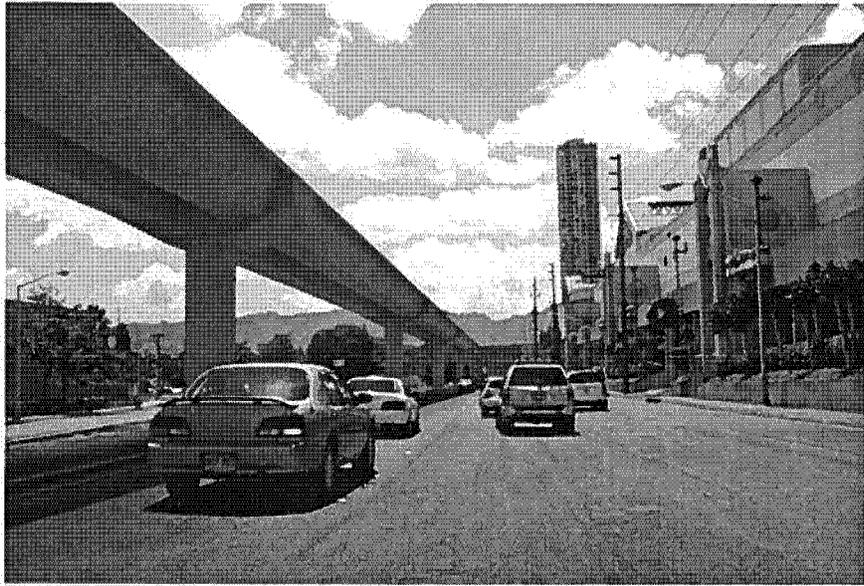
Existing View - Kamehameha Highway at Acacia



Managed Lane Alternative - Kamehameha Highway at Acacia



Fixed Guideway Alternative - Kamehameha Highway at Acacia



Existing View – Pearlridge Center



Reversible Managed Lane – Pearlridge Center



Fixed Guideway Station – Pearlridge Center



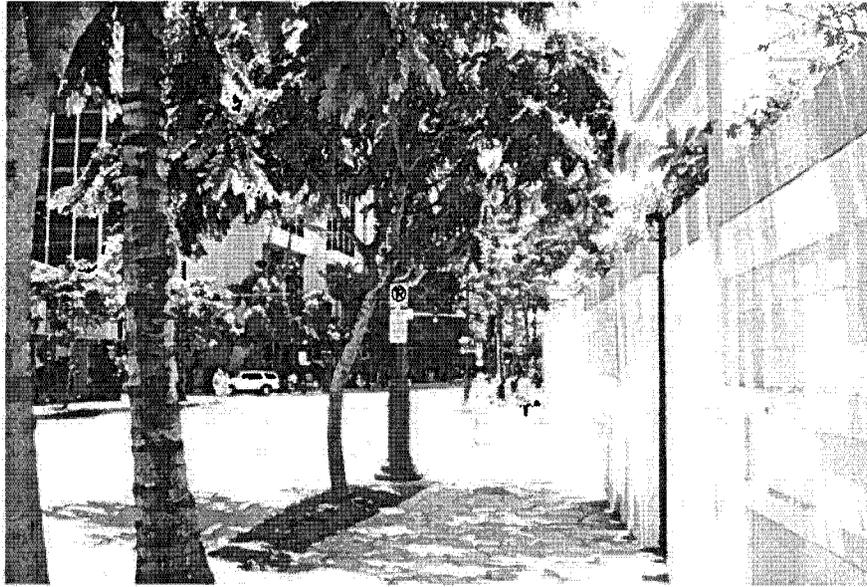
Existing View – Aloha Tower



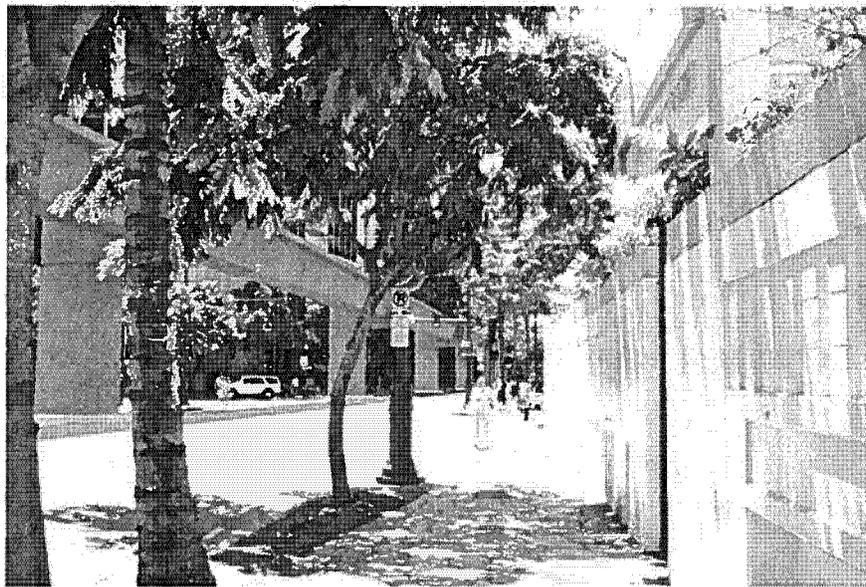
Fixed Guideway (Halekauwila Alignment) – Aloha Tower



Existing View – Kūhiō Avenue at Lili'uokalani (Waikīkī)



Fixed Guideway – Kūhiō Avenue at Lili'uokalani (Waikīkī)



September and October Community Updates

September 18, 12:00 noon U.H. Mānoa,
Campus Center Ballroom

September 18, 7:00 p.m. August Ahrens Elementary,
Waipahu

September 19, 7:00 p.m. Holomua Elementary,
'Ewa

September 20, 7:00 p.m. Alvah Scott Elementary,
'Aiea

October 24, 7:00 p.m. He'eia Elementary,
Kāne'ohe

October 30, 7:00 p.m. Nānāikapono Elementary,
Nānākuli

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Schedule

December 2005 Scoping Meetings - Completed

January 2006-October 2006 Technical Studies and Public
Outreach

November 2006 Issue Alternatives Analysis
Report

November/December 2006 Public Hearing on Alternatives
Analysis

December 2006 City Council selects Locally
Preferred Alternative

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Get Involved

- Receive mailings
- Visit www.honolulustransit.org
- Call 566-2299
- Stay informed with *accurate* information

Honolulu On The Move

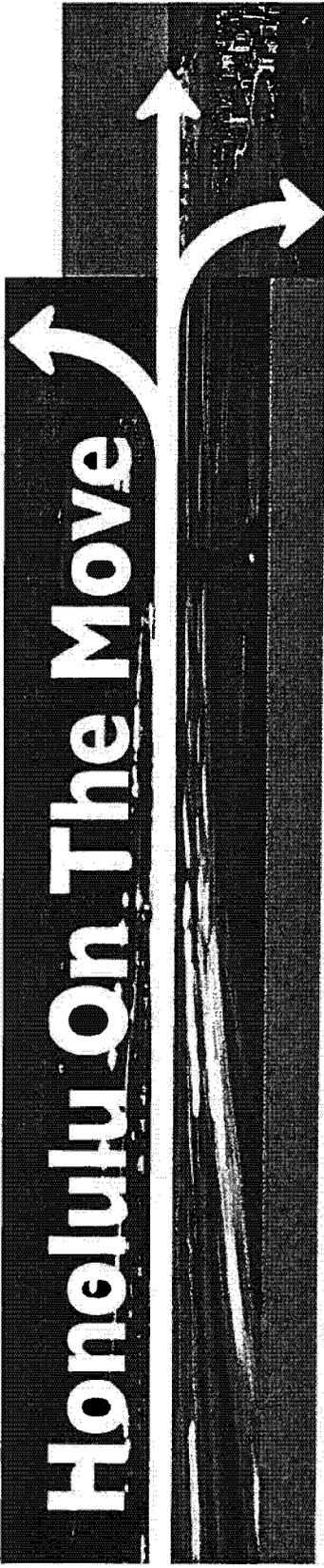
The Honolulu High-Capacity Transit Corridor Project

Project Contact Sign-up

NAME	COMPANY/ ORGANIZATION	MAILING ADDRESS	EMAIL ADDRESS
Sara VanderWerff	CBPP	629 Kailua Rd,	
Phil CAMP	HGA Hawaii		PCAMP@NGARCH.com
Jennifer Camp	GROUP20 INC		ucampegroup@int.com
Les & Sharon Chang		46-529 Halekua Pl Kaneohe 96744	leschang@hawaiiia.net
Darren Wong		46121 Hinapu St	

Date: 10/24/06

Organization: HEEIA ELEMENTARY, KAILUA



The Honolulu High-Capacity Transit Corridor Project
Project Contact Sign-up

NAME	COMPANY/ ORGANIZATION	MAILING ADDRESS	EMAIL ADDRESS
Marie House			
TED KANEMORI		46-2666 Keea St Kaneohe HI	ted@hiscyrf.com
BARBARA MARSHALL		CITY HALL	
Kathleen Forbes	PMD	City Hall	-
Harry T. Kumabe	Retiree	Kaneohe	
Mitchell chung	Student	45-067 Kapunahala Rd. Kaneohe HI 96744	
Karen Kumabe	resident	↓	
Russell Hanawa		P.O. Box 1201 Hanalei	

Date: 10/24/06 Organization: HEEIA ELEMENTARY, KAILUA