



VI.A. FFYs 2015-2018
Transportation Improvement Program
Revision #23
Amendment



What is the Transportation Improvement Program (TIP)?

- A four-year schedule of surface transportation projects
- Program, *not* a plan
 - “What gets built”
 - TIP funding must be spent toward a project that will be built
 - If not built, \$\$ must be paid back!
 - What’s types of activities are funded?
 - Preliminary engineering and environmental review
 - Final Design
 - Construction
 - Right of Way acquisition
 - Transit vehicle & facilities
 - Highway management operations
 - Etc.



FFYs 2015-2018 TIP Revision #23

- Amendment (“major changes”)
 - 7 project amendments
 - FHWA State of Hawaii projects only
 - Re-demonstration of fiscal constraint
 - Title VI and Environmental Justice analysis
 - Requires public & intergovernmental review, TAC consideration, and Policy Board approval



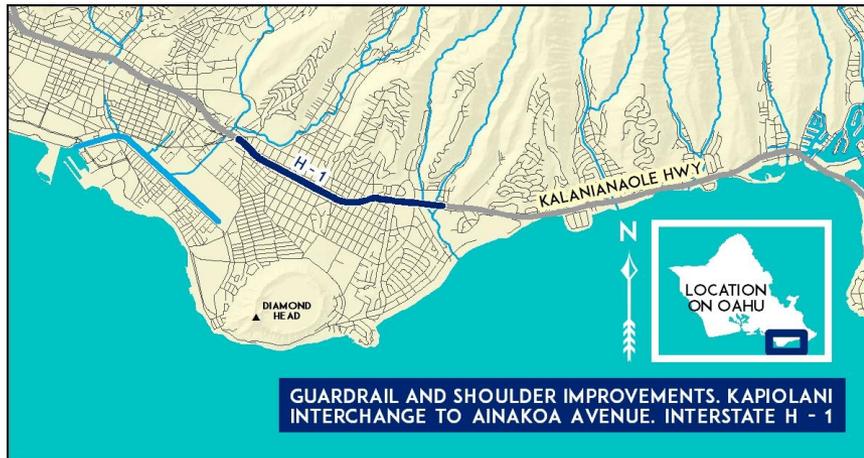
Project Amendment – OS57 Freeway Management System, Joint Traffic Management Center Operations (State)

- **Project Number:** OS57
- **Project Title:** Freeway Management System, Joint Traffic Management Center Operations (State)
- **Revision Details:** Request to delete FFY 2018 operational funding; the Joint Management Traffic Center is not operational yet (C.2).
- **Difference in Funding:** **-\$350,000**





Project Amendment – OS14 Interstate Route H-1, Guardrail and Shoulder Improvements, Kapiolani Interchange to Ainakoa Avenue

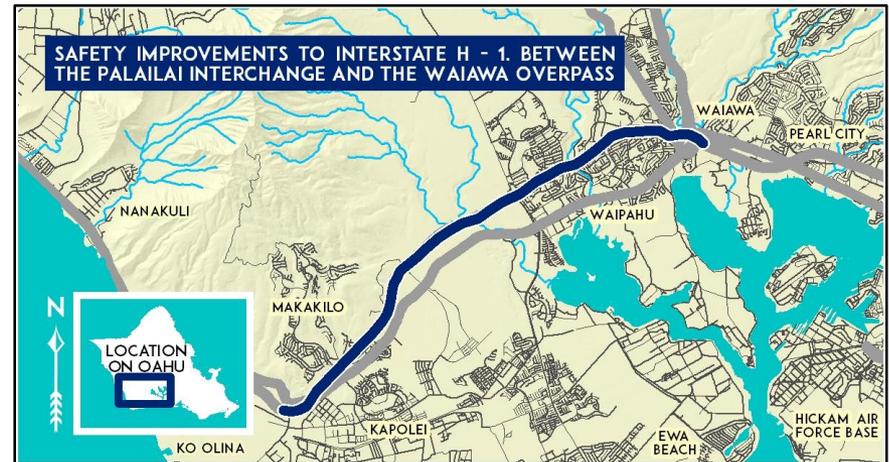


- **Project Number:** OS14
- **Project Title:** Interstate Route H-1, Guardrail and Shoulder Improvements, Kapiolani Interchange to Ainakoa Avenue
- **Revision Details:** Request to defer/inflate due to bid protests; this resulted in the deobligation of the project's construction phase funds. The bid protest has since been resolved, with all bids rejected. HDOT is working on repackaging the plans, specifications, and estimation, and re-advertising the procurement in early FFY 2019 (C.2).
- **Difference in Funding:** +\$500,000



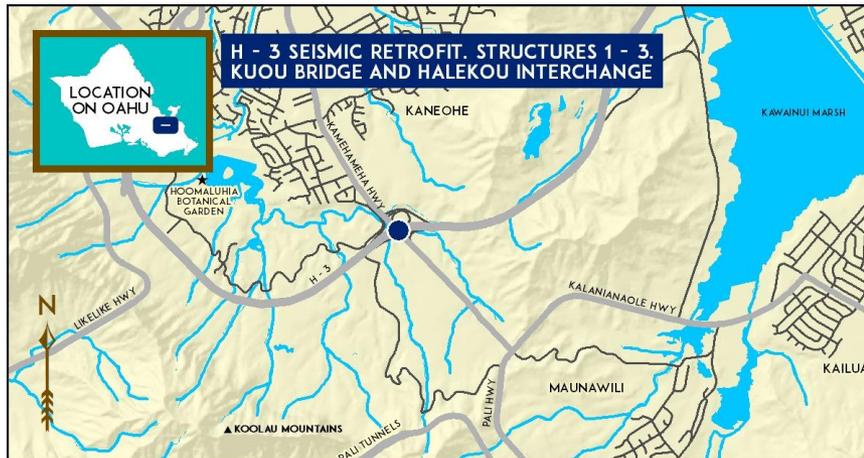
Project Amendment – OS20 Interstate Route H-1, Safety Improvements, Beginning of H-1 (Palailai Interchange to Waiawa Overpass)

- **Project Number:** OS20
- **Project Title:** Interstate Route H-1, Safety Improvements, Beginning of H-1 (Palailai Interchange to Waiawa Overpass)
- **Revision Details:** Cost increase from \$4.1M to \$9.2M, as it was determined that additional topographic surveys were needed. The new survey identified three new areas that need drainage improvements, in addition to the three improvements already identified. The new estimated total project cost reflects this, with the inclusion of costs associated with the initial low estimate and the added work identified (C.8).
- **Difference in Funding:** +\$5,080,000





Project Amendment – OS22 Interstate Route H-3, Seismic Retrofit, Kuou Bridge and Halekou Interchange, Structures 1, 2, and 3



- **Project Number:** OS22
- **Project Title:** Interstate Route H-3, Seismic Retrofit, Kuou Bridge and Halekou Interchange, Structures 1, 2, and 3
- **Revision Details:** Request to defer/inflate preliminary design and final design phases (PE1 and PE2); the procurement process was delayed, beginning in 2016 and has just begun. There is currently no preliminary design phase contract in place (C.2).
- **Difference in Funding:**
+\$4,680,000



Project Amendment – OS32 Kamehameha Highway (Route 83), Bridge Replacement, South Kahana Bridge

- **Project Number:** OS32
- **Project Title:** Kamehameha Highway (Route 83), Bridge Replacement, South Kahana Bridge
- **Revision Details:** Request to delete right of way (ROW); Right of way was transferred to HDOT from the Department of Land and Natural Resources. As such, funding is not needed for this phase (C.2).
- **Difference in Funding:** **-\$1,040,000**





Project Amendment – OS36 Kamehameha Highway (Route 83), Bridge Replacement, Waipilopilo Stream bridge



- **Project Number:** OS36
- **Project Title:** Kamehameha Highway (Route 83), Bridge Replacement, Waipilopilo Stream bridge
- **Revision Details:** Request to defer/inflate; there is a delay with the project's environmental clearance, with regard to Section 106 of the National Historic Preservation Act, Section 7 of the Endangered Species Act, and Section 4(f) of the U.S. Department of Transportation Act. Without National Environmental Policy Act clearance, the project may not acquire right of way (C.2).
- **Difference in Funding:** +\$10,000



Project Amendment – OS41 Kamehameha Highway (Route 83), Wetland Enhancement, Vicinity of Ukoa Pond

- **Project Number:** OS41
- **Project Title:** Kamehameha Highway (Route 83), Wetland Enhancement, Vicinity of Ukoa Pond
- **Revision Details:** Request to defer/inflate; feasible mitigation has not been determined (C.2).
- **Difference in Funding:** +\$100,000



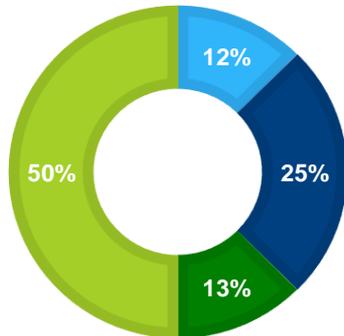


Public & Intergovernmental Review

- 8 comments
 - 4 comments from the public
 - 4 comments from government agencies

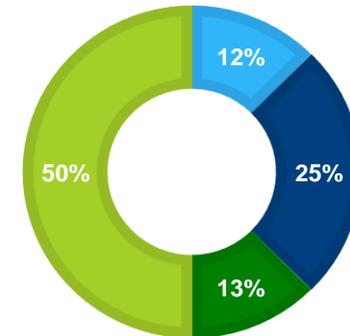
BY PROJECT

■ OS20 ■ OS36 ■ OS41 ■ General



BY PROJECT TYPE

■ Safety ■ System Preservation ■ Enhancement ■ N/A



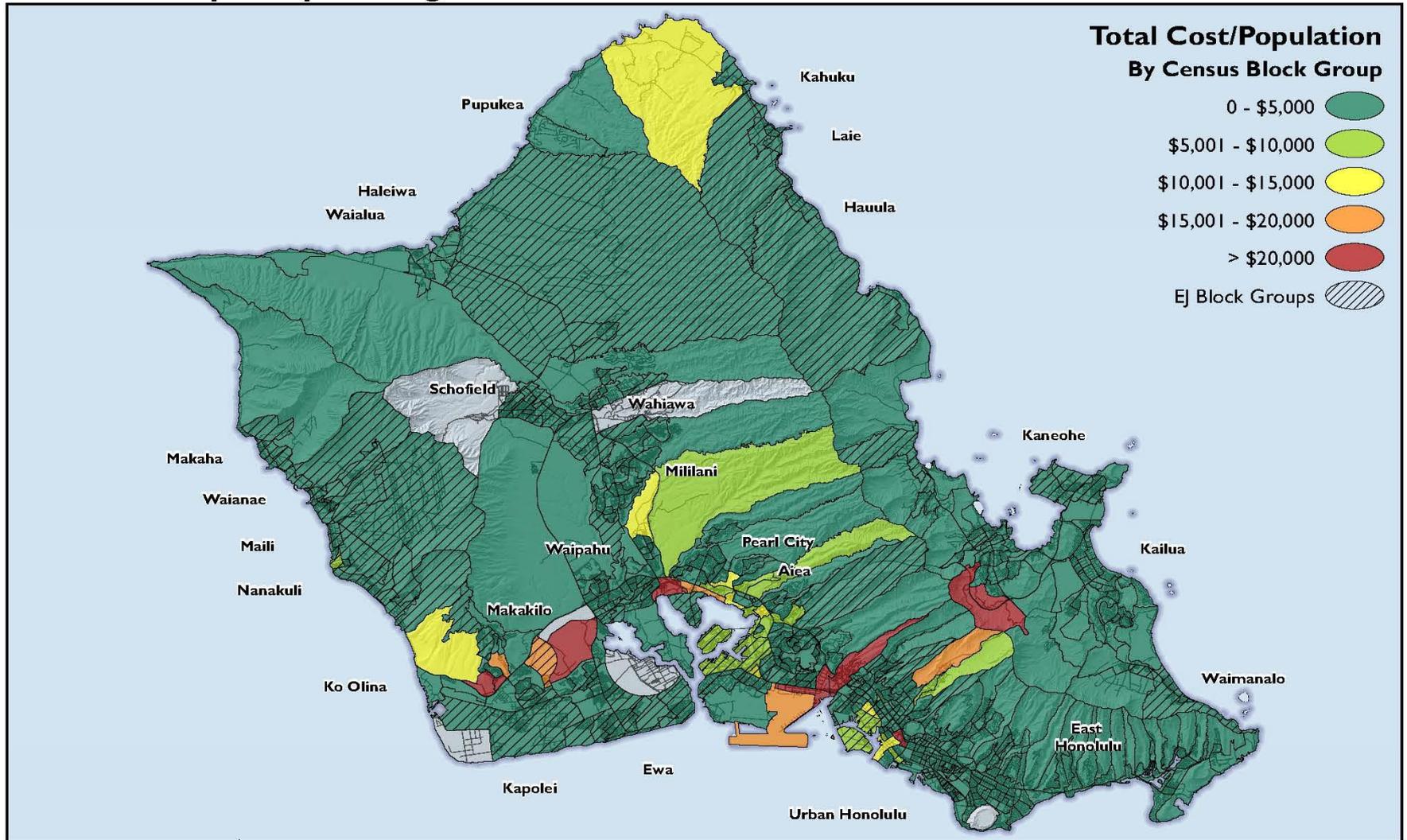


Title VI & Environmental Justice Analysis

Percent of T6/EJ Block Groups: 23% (135 Block Groups)
Percent of Non-T6/EJ Block Groups: 77% (454 Block Groups)

	T6/EJ	Non-T6/EJ
Average Investment by Block Group	\$1.6M	\$1.5M
Total Cost of Projects	\$210.2M	\$671.4M
% Project Investment	23.8%	76.2%
Total Population	289,321	663,886
Average Per Capita Investment	\$726	\$1,011

Total Per Capita Spending - TIP 2015 - 2018 - Revision 23



Total Cost/Population By Census Block Group

- 0 - \$5,000
- \$5,001 - \$10,000
- \$10,001 - \$15,000
- \$15,001 - \$20,000
- > \$20,000
- EJ Block Groups



Imagery: WV-2 Satellite Orthoimagery, USDA NRCS.
Streets: City & County of Honolulu centerlines.

Date: 6/25/2018 **RF Scale:** 1:324,837



Requested Action: Recommend the Policy Board consider the FFYs 2015-2018 Transportation Improvement Program Revision #23 for approval, as presented



VI.B. FFYs 2019-2022 Transportation Improvement Program

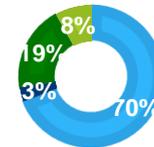


FFYs 2019-2022 TIP

- “New TIP”
 - 62 projects
 - 13 New Projects
 - Requires public & intergovernmental review, TAC/CAC consideration, and Policy Board approval

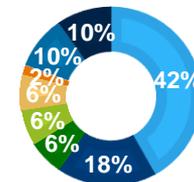
AGENCY PROJECTS

- State FHWA funded projects
- State FTA funded projects
- City and County FHWA funded projects
- City and County FTA funded projects



PROJECT TYPE

- System Preservation
- Safety
- Congestion
- Modernization
- Enhancement
- Human
- Transit
- N/A

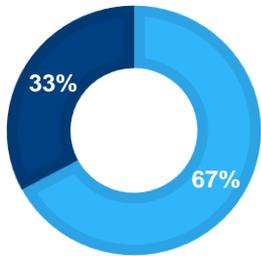




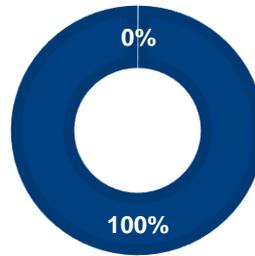
FFYs 2019-2022 TIP

FHWA FUNDING

■ State FHWA Funding ■ City FHWA Funding ■ State FTA Funding ■ City FTA Funding

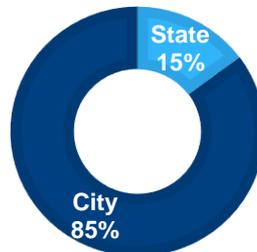


FTA FUNDING



TOTAL TIP FUNDING

■ State ■ City

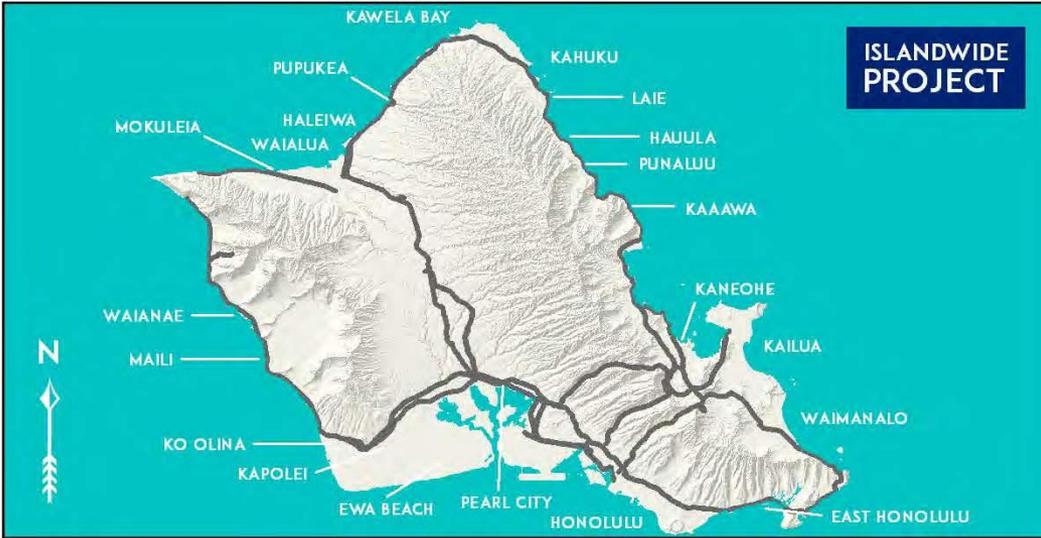


- Overall
 - ≈\$664 million for highways projects 2019-2022
 - ≈\$2.366 billion for transit projects 2019-2022



FFYs 2019-2022 New TIP Projects

OS76 Bridge Rehabilitation Program, Various Locations



Project Description:

This program will fund projects generated from the priorities identified in the Bridge Management System (BRM).

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: \$41,920,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

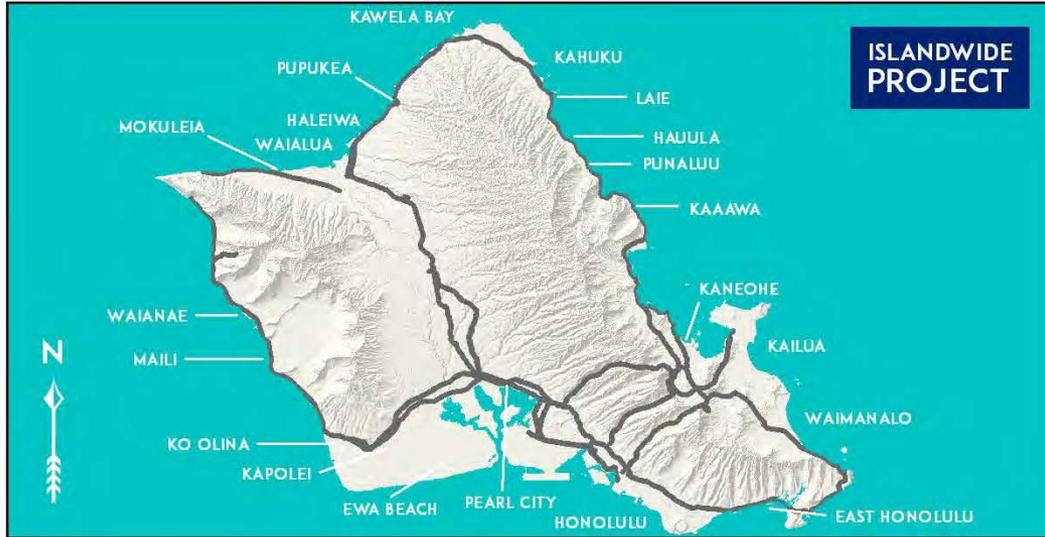
Project Sponsor: State of Hawaii (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
<i>Various Locations TBD by BRM</i>																			
PE1	0	0	0	0	0	0	1,120	896	224	300	240	60	1,000	800	200	1,300	1,040	260	NHPP
PE2	0	0	0	0	0	0	0	0	0	1,700	1,360	340	1,000	800	200	1,000	800	200	NHPP
ROW	0	0	0	0	0	0	0	0	0	0	0	0	1,000	800	200	300	240	60	NHPP
CON	0	0	0	0	0	0	0	0	0	12,000	2,600	9,400	7,500	6,000	1,500	13,700	10,960	2,740	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	0	0	0	7,000	(7,000)	0	0	0	NHPP
TOTAL	0	0	0	0	0	0	1,120	896	224	14,000	4,200	9,800	10,500	15,400	(4,900)	16,300	13,040	3,260	

OS77 Bridge Replacement Program, Various Locations



Project Description:

This program will fund projects based on priorities generated from the Bridge Management System (BRM).

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: \$67,055,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

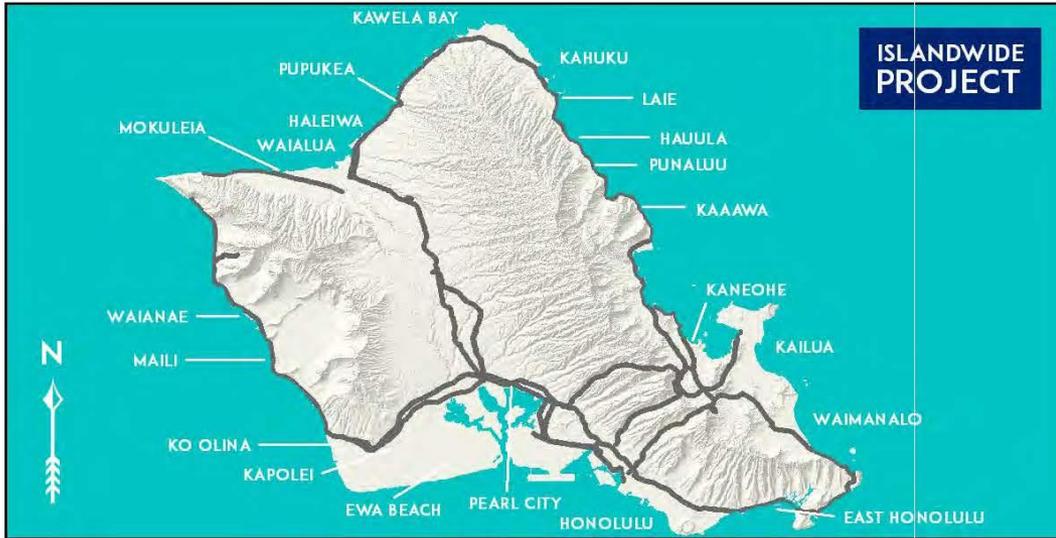
Project Sponsor: State of Hawaii (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
<i>Various Locations TBD by BRM</i>																			
PE1	0	0	0	0	0	0	720	576	144	1,300	1,040	260	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	1,100	880	220	2,300	1,840	460	0	0	0	NHPP
ROW	0	0	0	0	0	0	0	0	0	550	440	110	550	440	110	1,535	1,228	307	NHPP
CON	0	0	0	0	0	0	0	0	0	10,000	4,000	6,000	20,000	16,000	4,000	29,000	23,200	5,800	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	0	0	0	4,000	(4,000)	0	0	0	NHPP
TOTAL	0	0	0	0	0	0	720	576	144	12,950	6,360	6,590	22,850	22,280	570	30,535	24,428	6,107	

OS78 Bridge Seismic Retrofit Program, Various Locations



Project Description:

This program will fund projects based on priorities generated from the the Seismic Retrofit program.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: \$4,861,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
 Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	
(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)
<i>Various Locations TBD by Seismic Retrofit Management Program</i>																			
PE1	0	0	0	0	0	0	240	192	48	0	0	0	210	168	42	736	589	147	NHPP
PE2	0	0	0	0	0	0	0	0	0	360	288	72	0	0	0	315	252	63	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	3,000	2,400	600	0	0	0	NHPP
TOTAL	0	0	0	0	0	0	240	192	48	360	288	72	3,210	2,568	642	1,051	841	210	

OS69 Farrington Highway (Route 93), Safety Improvements, H-1 Freeway to Pohakunui Avenue



Project Description:

Scope includes, but is not limited to, the installation of milled rumble strips or rumble edge stripes on shoulders/median; installation of milled rumble strips on centerline; widening shoulders where possible; installation of speed feedback sign; installation of concrete median barrier at U-turn; and installation of pavement markings and signage.

Mile Post/s: MP 0 to MP 4.4

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Waianae Coast

Estimated Total Project Cost: \$2,500,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category		
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024					
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)			
CON	0	0	0	2,250	25	2,225	0	0	0	0	0	0	0	0	0	0	0	0	0	HSIP	
ADVCON	0	0	0	0	0	0	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	0	0	HSIP
TOTAL	0	0	0	2,250	25	2,225	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	0	0	

OS74 Interstate Route H-1, Seismic Retrofit, McCully Street Separation



Project Description:

Retrofit interchange structures to meet current seismic standards.

Mile Post/s: MP 23.50

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): McCully-Moiliili

Estimated Total Project Cost: \$3,155,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

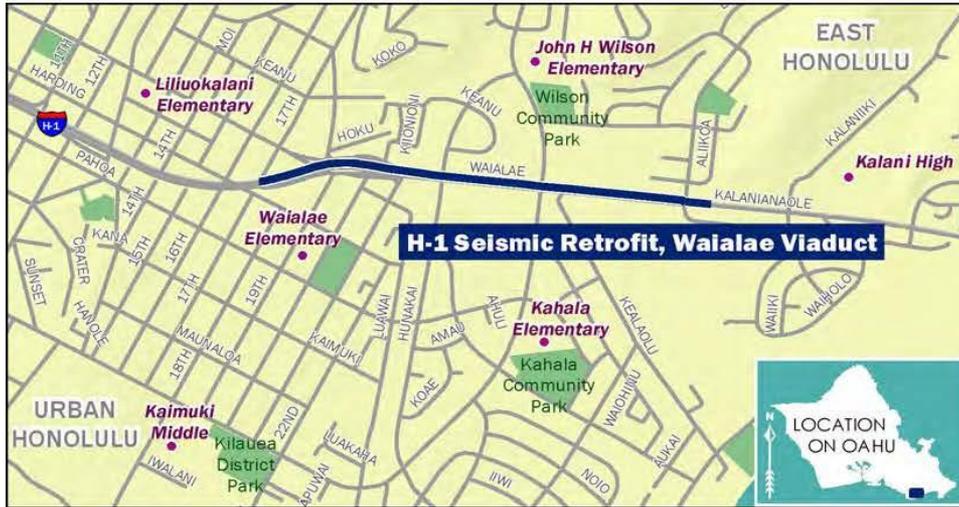
Agency Responsible for Carrying Out Project/Phase:

Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
PE1	0	0	0	0	0	0	0	0	0	286	229	57	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	0	0	0	429	343	86	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,440	1,952	488	NHPP
TOTAL	0	0	0	0	0	0	0	0	0	286	229	57	429	343	86	2,440	1,952	488	

OS70 Interstate Route H-1, Seismic Retrofit, Waiialae Viaduct



Project Description:
Retrofit interchange structures to meet current seismic standards.

Mile Post/s: MP 26.50 to MP 26.90

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Waiialae-Kahala, Kaimuki

Estimated Total Project Cost: \$7,764,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

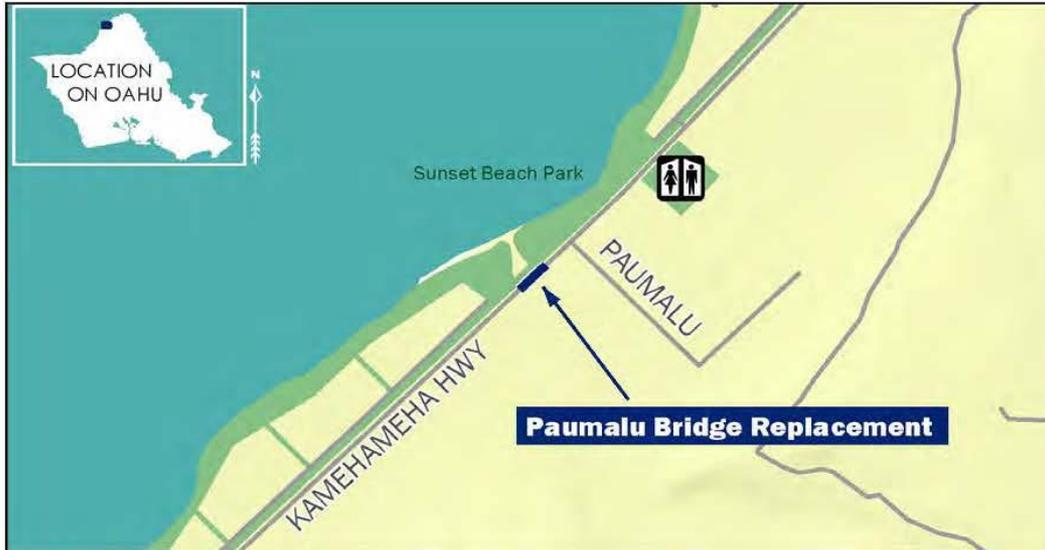
Project Sponsor: State of Hawaii (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
PE1	0	0	0	0	0	0	664	531	133	0	0	0	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	1,000	800	200	0	0	0	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	6,100	1,880	4,220	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,000	(3,000)	NHPP
TOTAL	0	0	0	0	0	0	664	531	133	1,000	800	200	6,100	1,880	4,220	0	3,000	(3,000)	

OS71 Kamehameha Highway (Route 83), Bridge Replacement, Paumalu Bridge



Project Description:

Rehabilitate the existing bridge on Kamehameha Highway.

Mile Post/s: MP 8.52 to MP 8.53

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): North Shore

Estimated Total Project Cost: \$11,960,000

(May include project costs outside of the 4-year TIP and 2 informational

Project Sponsor: State of Hawaii (FHWA Funded)

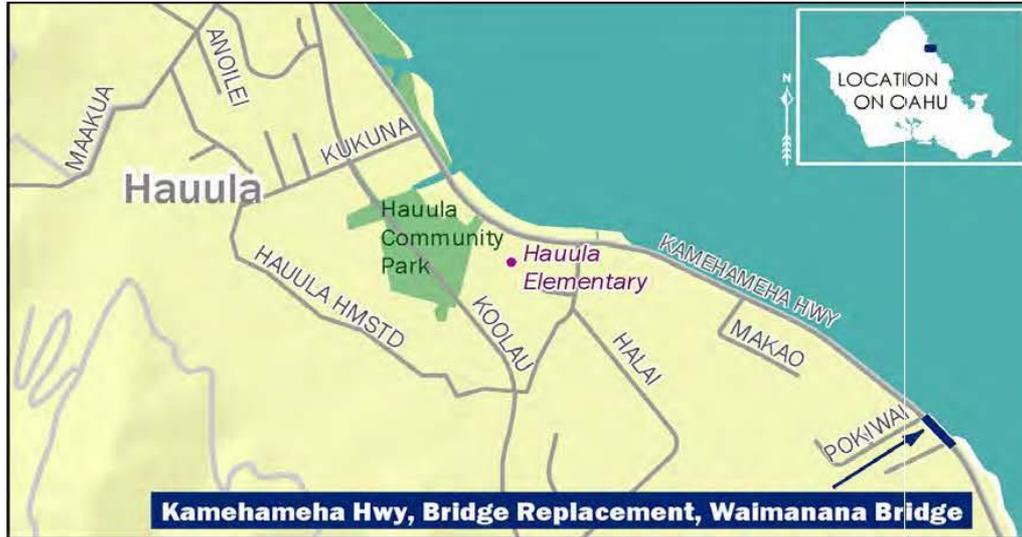
Agency Responsible for Carrying Out Project/Phase:

Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
PE1	0	0	0	0	0	0	1,000	800	200	0	0	0	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	400	320	80	0	0	0	0	0	0	NHPP
ROW	0	0	0	0	0	0	0	0	0	0	0	0	560	448	112	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,000	4,000	6,000	NHPP
TOTAL	0	0	0	0	0	0	1,000	800	200	400	320	80	560	448	112	10,000	4,000	6,000	

OS72 Kamehameha Highway (Route 83), Bridge Replacement, Waimanana Bridge



Project Description:

Replace the existing bridge on Kamehameha Highway.

Mile Post/s: MP 22.21 to MP 22.22

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Koolauloa

Estimated Total Project Cost: \$11,520,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

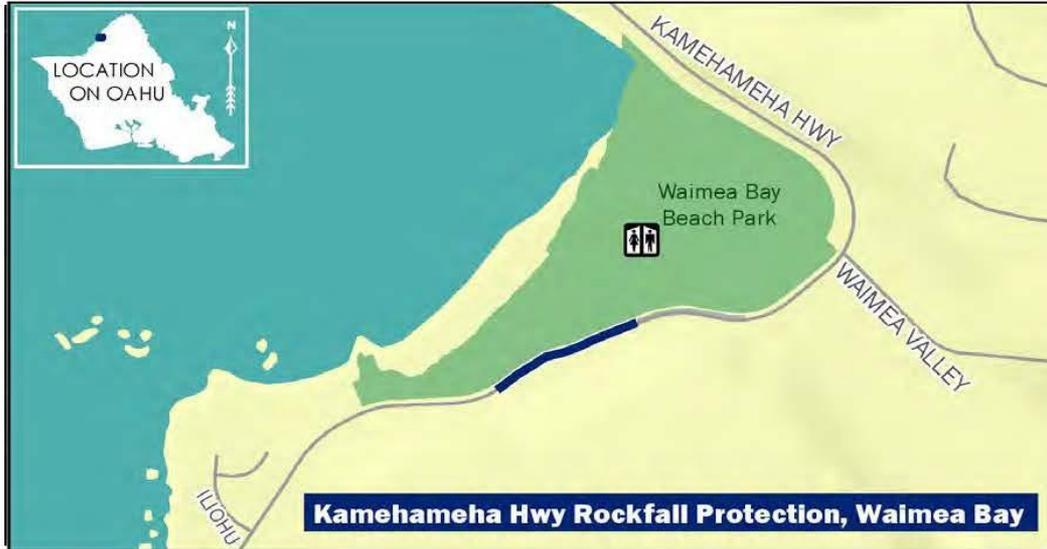
Agency Responsible for Carrying Out Project/Phase:

Hawaii Department of Transportation

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Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
PE1	0	0	0	0	0	0	650	520	130	0	0	0	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	930	744	186	0	0	0	0	0	0	NHPP
ROW	0	0	0	0	0	0	0	0	0	0	0	0	740	592	148	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,200	7,360	1,840	NHPP
TOTAL	0	0	0	0	0	0	650	520	130	930	744	186	740	592	148	9,200	7,360	1,840	

OS75 Kamehameha Highway (Route 83), Rockfall Protection, Waimea Bay



Project Description:

Initiate rockfall mitigation measures along Kamehameha Highway at Waimea Bay.

Mile Post/s: MP 5.40 to MP 5.52

Complete Streets (CS):

Project will implement: No information available. However, CS principles will be considered in all Highway Projects.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): North Shore

Estimated Total Project Cost: \$19,450,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:

Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

FOR INFORMATION ONLY

Phase	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			Funding Category	
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)		
<i>Waimea Bay</i>																				
PE2	0	0	0	900	720	180	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
PREROW	0	0	0	0	0	0	50	40	10	0	0	0	0	0	0	0	0	0	0	NHPP
ROW	0	0	0	0	0	0	0	0	0	500	400	100	0	0	0	0	0	0	0	NHPP
<i>Haleiwa</i>																				
CON	0	0	0	0	0	0	0	0	0	10,000	2,000	8,000	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	0	0	0	6,000	(6,000)	0	0	0	0	NHPP
<i>Sunset Beach</i>																				
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	6,400	1,600	0	NHPP
TOTAL	0	0	0	900	720	180	50	40	10	10,500	2,400	8,100	0	6,000	(6,000)	8,000	6,400	1,600		

OS73 Likelike Highway (Route 63), Safety Improvements, Emmeline Place to Kahekili Highway



Project Description:

Includes, but is not limited to the installation of milled rumble strips or rumble edge stripes on shoulders where possible, high friction surface treatment, speed feedback sign, guardrail end treatment, in-lane pavement markers, LED speed limit signs and chevrons, widen paved shoulders where possible, pavement markings, and signing.

Mile Post/s: MP 2.70 to MP 8.30

Complete Streets (CS):

Project will implement: Not applicable
Existing Feature/s: Not applicable

Project Website: None

Neighborhood(s): Kalihi Valley, Kaneohe

Estimated Total Project Cost: \$3,000,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

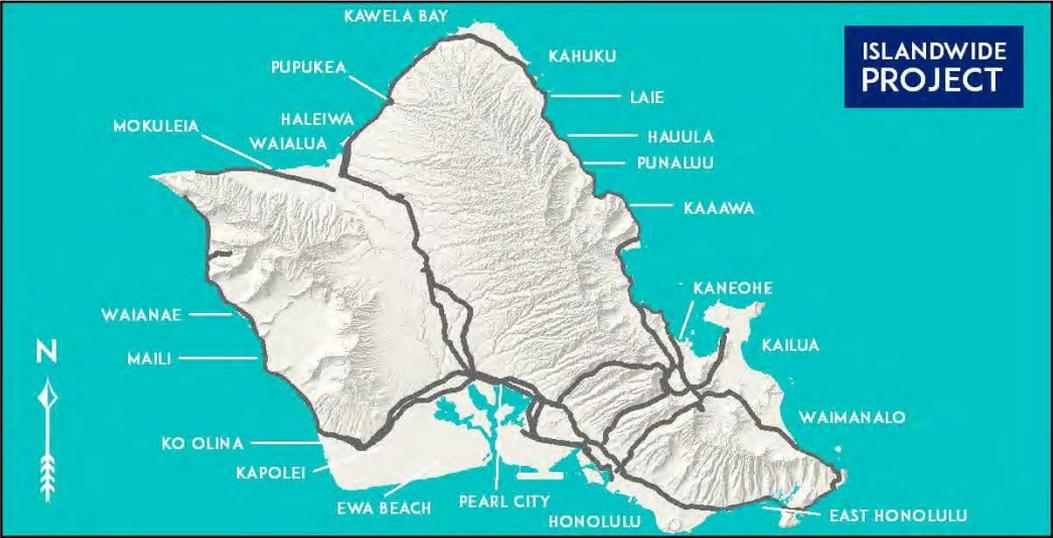
Agency Responsible for Carrying Out Project/Phase:

Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	Total (X\$1000)	Federal (X\$1000)	Local (X\$1000)	
CON	0	0	0	0	0	0	2,700	430	2,270	0	0	0	0	0	0	0	0	0	HSIP
ADVCON	0	0	0	0	0	0	0	0	0	0	2,000	(2,000)	0	0	0	0	0	0	HSIP
TOTAL	0	0	0	0	0	0	2,700	430	2,270	0	2,000	(2,000)	0	0	0	0	0	0	

OS79 Shoreline Protection/Mitigation Program



Project Description:
Develop and construct shoreline protection measures to better protect roadways from flooding and erosion as identified and prioritized in the Statewide Shoreline Protection Program. This funding is for the Oahu District Sub-Program.

Mile Post/s: Not applicable

Complete Streets (CS):
Project will implement: Not applicable
Existing Feature/s: Not applicable

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: \$28,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

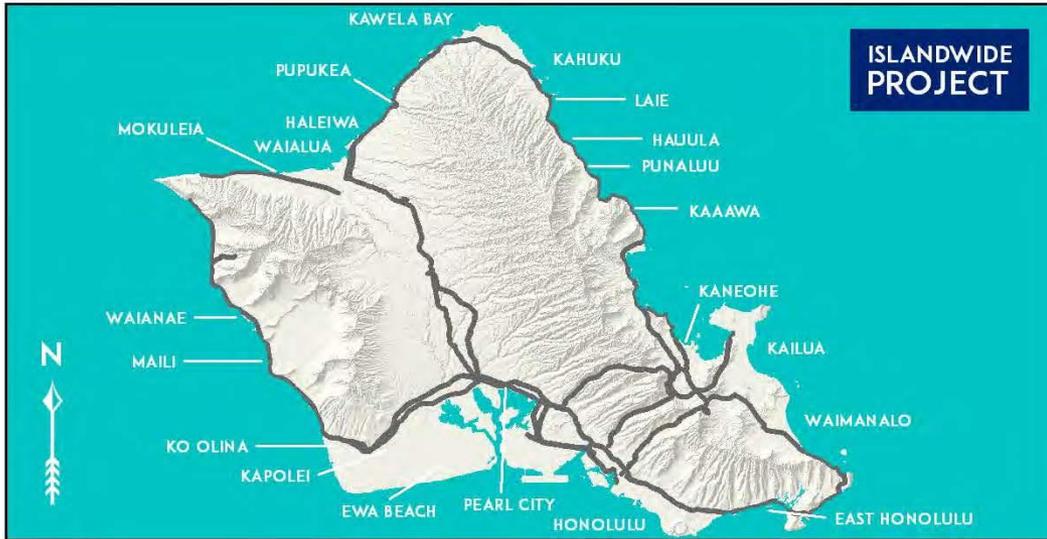
Agency Responsible for Carrying Out Project/Phase:
Hawaii Department of Transportation

All values are in thousands of U.S. dollars (x1000)

FOR INFORMATION ONLY

Phase	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			Funding Category
	Total (\$1000)	Federal (\$1000)	Local (\$1000)	Total (\$1000)	Federal (\$1000)	Local (\$1000)	Total (\$1000)	Federal (\$1000)	Local (\$1000)	Total (\$1000)	Federal (\$1000)	Local (\$1000)	Total (\$1000)	Federal (\$1000)	Local (\$1000)	Total (\$1000)	Federal (\$1000)	Local (\$1000)	
<i>Tier 1 - (Short-Term) Locations</i>																			
ROW	0	0	0	500	400	100	0	0	0	500	400	100	0	0	0	0	0	0	NHPP
CON	0	0	0	2,000	1,600	400	0	0	0	2,000	1,600	400	0	0	0	0	0	0	NHPP
<i>Tier 2 - (Mid/Long-Term) Locations</i>																			
PE1	0	0	0	0	0	0	2,000	600	1,400	0	0	0	0	0	0	0	0	0	NHPP
ADVCON (PE)	0	0	0	0	0	0	0	0	0	0	1,000	(1,000)	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	4,000	3,200	800	0	0	0	0	0	0	NHPP
ROW	0	0	0	0	0	0	0	0	0	0	0	0	2,000	1,600	400	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,000	7,000	8,000	NHPP
TOTAL	0	0	0	2,500	2,000	500	2,000	600	1,400	6,500	6,200	300	2,000	1,600	400	15,000	7,000	8,000	

OC28 Safe Routes to School (SRTS) Program



Project Description:

The Safe Routes to School (SRTS) Program has the following goals: enable and encourage children, including those with disabilities, to walk and bicycle to school; make bicycling and walking to school a safer and more appealing transportation alternative, thereby encouraging a healthy and active lifestyle from an early age; and facilitate the planning, development, and implementation of projects and activities that will improve safety and reduce traffic, fuel consumption, and air pollution in the vicinity of schools.

Project Website: <http://hidot.hawaii.gov/highways/srts/>

Neighborhood(s): Various Locations

Estimated Total Project Cost: \$500,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: City and County of Honolulu (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:

City Department of Transportation Services

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category	
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024				
	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local		
(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)		
<i>Kailua Bike Boulevard</i>																				
PE2	0	0	0	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SRTS
CON	0	0	0	0	0	0	0	0	0	0	0	0	300	300	0	0	0	0	0	SRTS
INSP	0	0	0	0	0	0	0	0	0	0	0	0	70	70	0	0	0	0	0	SRTS
TOTAL	0	0	0	25	25	0	0	0	0	0	0	0	370	370	0	0	0	0	0	

OC29 Federal Lands Access Program (FLAP)

SITES TO BE DETERMINED

Project Description:

The Federal Lands Access Program (FLAP) was established to improve transportation facilities that provide access to, are adjacent to, or are located within Federal lands. The Access Program supplements State and local resources for public roads, transit systems, and other transportation facilities, with an emphasis on high-use recreation sites and economic generators.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: No information available.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s):TBD

Estimated Total Project Cost: \$6,766,000

(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: City and County of Honolulu (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:

City Department of Transportation Services

All values are in thousands of U.S. dollars (x1000)

Phase	FOR INFORMATION ONLY																		Funding Category	
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024				
	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	Federal	Local		
(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)	(X\$1000)		
Pearl Harbor Multimodal Connection Alternatives: Phase II																				
PE2	733	586	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FLAP
CON	0	0	0	6,033	4,826	1,207	0	0	0	0	0	0	0	0	0	0	0	0	0	FLAP
TOTAL	733	586	147	6,033	4,826	1,207	0	0	0	0	0	0	0	0	0	0	0	0	0	

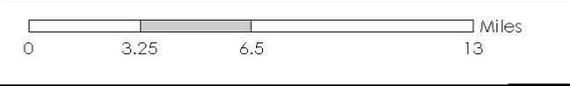
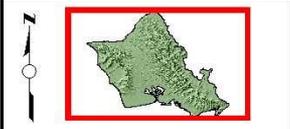
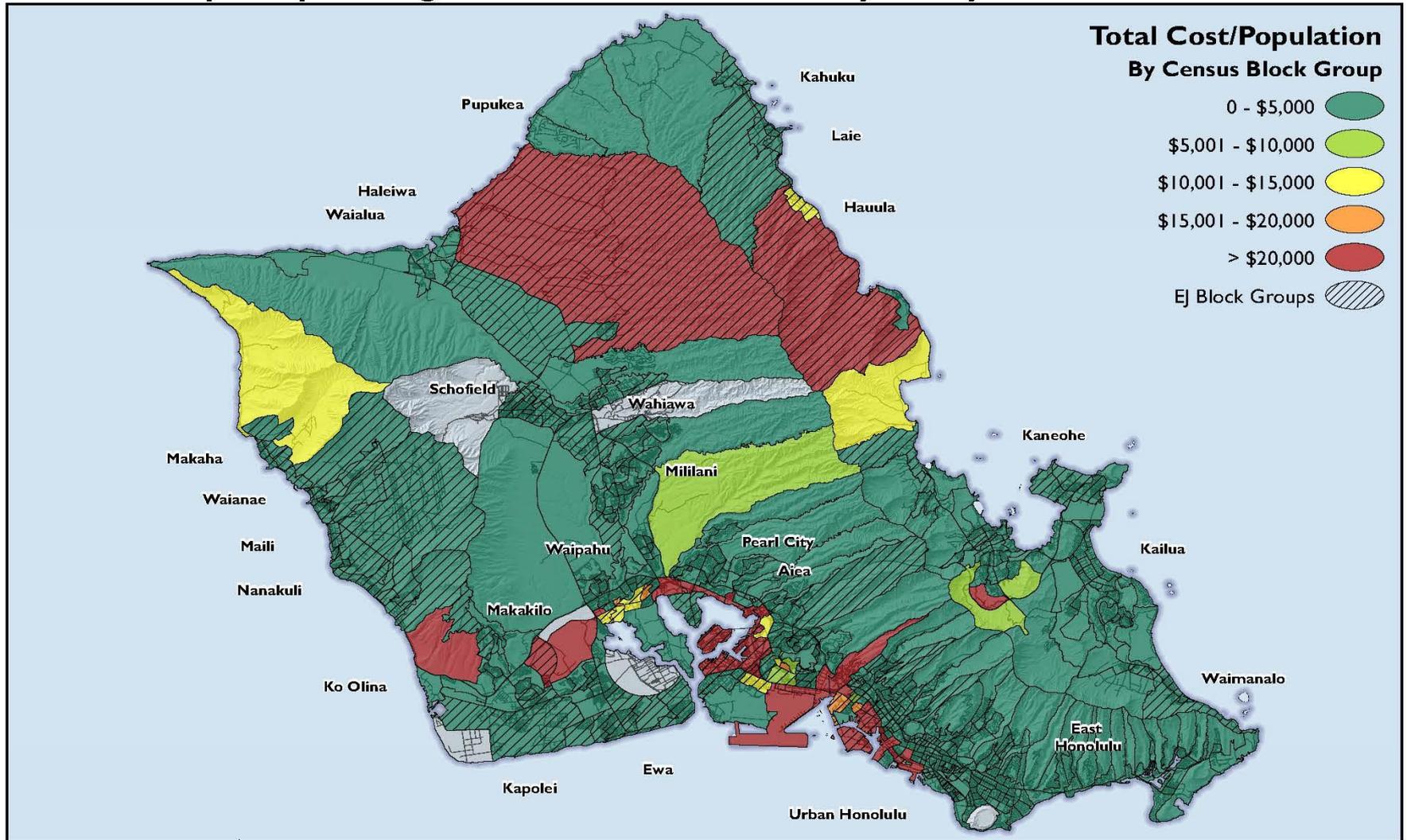


Title VI & Environmental Justice Analysis

Percent of T6/EJ Block Groups: 23% (135 Block Groups)
Percent of Non-T6/EJ Block Groups: 77% (454 Block Groups)

	T6/EJ	Non-T6/EJ
Average Investment by Block Group	\$6.8M	\$36.7M
Total Cost of Projects	\$916.8M	\$1,665.5M
% Project Investment	35.5%	64.5%
Total Population	289,321	663,886
Average Per Capita Investment	\$3,168	\$2,509

Total Per Capita Spending - TIP 2019 - 2022 - Primary Analysis



Imagery: WV-2 Satellite Orthoimagery, USDA NRCS.
 Streets: City & County of Honolulu centerlines.

Date: 6/26/2018 RF Scale: 1:325,597



Public Input

- Received 126 total comments
 - Public – 107 Comments
 - Government Agencies – 19 Comments

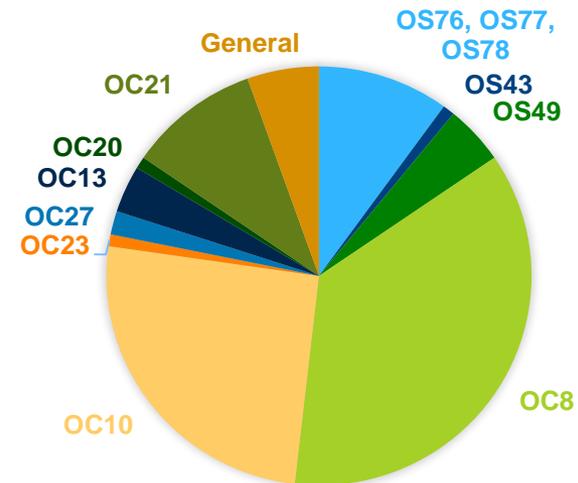




Public & Intergovernmental Review – By Project

- Comments regarding the following projects:
 - ~36% OC8 Traffic Improvements
 - ~25% OC10 Traffic Signals
 - 10% OS76, OS77, OS78 (Bridges)
 - 10% OC21 Transit Safety and Security

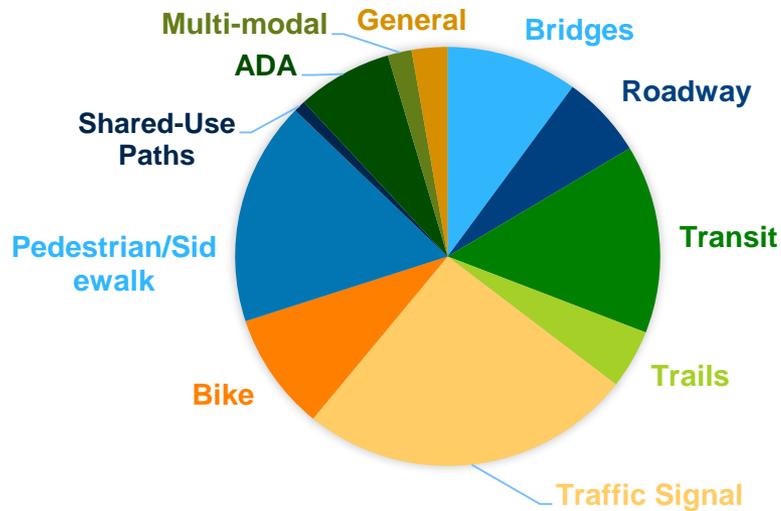
PUBLIC & INTERGOVERNMENTAL REVIEW - PROJECT





Public & Intergovernmental Review – By Type of Project

PUBLIC & INTERGOVERNMENTAL – TYPE OF PROJECT



- Comments regarding the following types of projects:

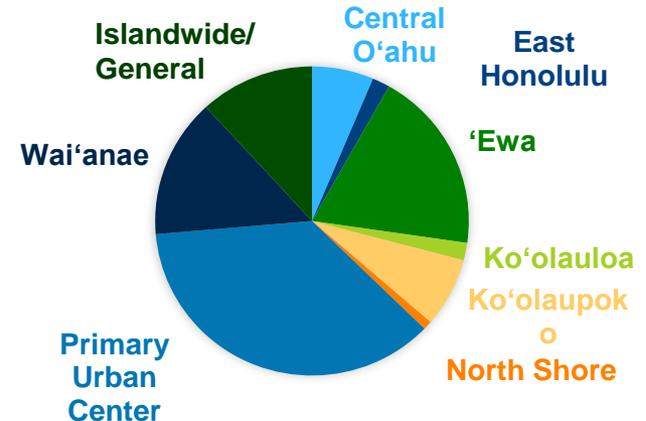
- ~25% Traffic Signals
- ~17% Sidewalks/Pedestrian
- ~14% Transit
- 10% Bridges
- ~9% Bicycle Improvements



Public & Intergovernmental Review – By General Plan Development Pattern

- Comments regarding the following locations:
 - ~36% Primary Urban Center
 - ~19% 'Ewa
 - ~14% Wai'anae
 - ~12% Islandwide/General

PUBLIC & INTERGOVERNMENTAL REVIEW – GENERAL PLAN DEVELOPMENT





Requested Action: Recommend the Policy Board consider the FFYs 2019-2022 Transportation Improvement Program for approval, as presented



Questions?

To view TIP documents, and to learn more about its process, visit:

www.OahuMPO.org/TIP