TRANSPORTATION IMPROVEMENT PROGRAM

FEDERAL FISCAL YEARS 2019 – 2022

Oahu MPO

ALL PROJECTS AS OF

REVISION 3

TRANSPORTATION IMPROVEMENT PROGRAM

FEDERAL FISCAL YEARS 2019 - 2022

As of Revision 3

March 2019

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The City and County of Honolulu is using the OahuMPO TIP public involvement process, as outlined in the Federal Highway Administration/Federal Transit Administration metropolitan transportation planning regulations (23 CFR 450/49 CFR 613), to satisfy the public hearing requirements for the Federal Transit Administration's Urbanized Area Formula Program (49 U.S.C. Section 5307) program-of-projects.

CONTENTS

1 Abbreviations 6

1.1 Overall Initialisms and Acronyms 6

1.2 Project Listing Abbreviations 7

2 Introduction 8

3 Development Process 9

3.1 Development of Financial Estimates 9

3.2 Call for Projects 9

3.3 Public Outreach 9

3.4 Technical Project Evaluations 10

3.5 Project Selection 10

3.6 Incorporation of the TIP into the STIP 11

3.7 FHWA and FTA Action on the STIP 11

4 Revisions 14

4.1 Administrative Modifications 14

4.2 Amendments 15

4.3 Revision Examples 15

5 TIP History 18

5.1 Revision History 18

6 All Projects as of Revision 3 19

6.1 Project List 20

6.2 Project Information Sheets 25

6.3 Funding Summary 96

6.4 FHWA Formula Funds Programmed 97

7 Financial Planning 98

7.1 Funding Sources 98

7.2 Annual Financial Plans for Major Projects 105

7.3 Financial Constraint Tables 107

Figures & Tables

Figure 1: TIP Process 12

Table 1: Examples of Administrative Modifications and Amendments 15

Table 2: Revisions as of February 2019 18

Appendices

Appendix A: Current Planning Factors

Appendix B: Disposition of Intergovernmental Review and Public Comment

Appendix C: Regional Transportation Atlas

1 ABBREVIATIONS

1.1 OVERALL INITIALISMS AND ACRONYMS

3-C	Continuing, Cooperative, Comprehensive
ADA	Americans with Disabilities Act
APE	Area of Potential Effects
CAC	OahuMPO Citizen Advisory Committee
CATEX	Categorical Exclusion
CFR	Code of Federal Regulations
CCTV	Closed-circuit television
CMP	OahuMPO Congestion Management Process
DTS	City and County of Honolulu Department of Transportation Services
EJ	Environmental Justice
FAST	Fixing America's Surface Transportation Act [P.L. 114-96, 2015]
FMCSA	USDOT Federal Motor Carrier Safety Administration
FHWA	USDOT Federal Highway Administration
FTA	USDOT Federal Transit Administration
FFY	Federal Fiscal Year (October 1-September 30)
HART	Honolulu Authority for Rapid Transportation
HDOT	Hawaii Department of Transportation
HR	House Report
ITS	OahuMPO Intelligent Transportation System
MAP-21	Moving Ahead for Progress in the 21st Century [P.L. 112-141, 2012]
MOA	Memorandum of Agreement
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NTD	National Transit Database
OahuMPO	Oahu Metropolitan Planning Organization
ORTP	OahuMPO Oahu Regional Transportation Plan
OWP	OahuMPO Overall Work Plan
PB	OahuMPO Policy Board (formerly Committee)
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act – A Legacy for Users [P.L. 109-59, 2005]
SMP	Special Maintenance Program
SOGR	State of Good Repair
STIC	Small Transit Intensive Cities
STIP	Statewide Transportation Improvement Program
TAC	OahuMPO Technical Advisory Committee
TIP	Transportation Improvement Program
T6	Title VI of the Civil Rights Act of 1964
U.S.C.	United States Code
UZA	Urbanized Areas

1.2 PROJECT LISTING ABBREVIATIONS

FHWA Funding Categories

Bridge Off	Bridge Off-System
Bridge On	Bridge On-System
CMAQ	Congestion Mitigation and Air Quality Program
Discret	Discretionary Funds
Enhance	Transportation Enhancement Program
FHWA X-fer	FHWA transfer from FTA
IM	Interstate Maintenance
NHPP	National Highway Performance Program
NHS	National Highway System
HSIP	Highway Safety Improvement Program
RTP	Recreational Trails Program
STP (Flex)	Surface Transportation Program (Flexible)
TAP	Transportation Alternatives Program
TAP-U	Transportation Alternatives Program for Urbanized Areas

FTA Funding Categories

§5307	Urbanized Area Formula
§5309 FGM	Fixed Guideway Modernization
§5309 NS	New Starts
§5310	Enhanced Mobility
§5329	Public Transit Safety Program
§5337	State of Good Repair
§5339	Bus and Bus Facilities
§5340	Growing States and High-Density States Formula

Local Funding Category

Local Only	Locally-Funded

Project Phases (Chronological Order)

PLN	Planning
PE1	Preliminary Design, including NEPA
DES	Design
PE2	Final Design
EQP	Equipment
PREROW	Pre-Right-of-Way
ROW	Right-of-Way
ADVCON	Advance Construction Reimbursement
REL	Utility Relocation
CON	Construction
OPR	Operations
INSP	Inspection

2 INTRODUCTION

The *Transportation Improvement Program – Federal Fiscal Years 2019 - 2022 (TIP)* was prepared in accordance with the requirements of 23 U.S.C. 134 and 23 CFR 450 Part 300. This legal framework describes and prioritizes the surface transportation programs and projects that the Oahu Metropolitan Planning Organization (OahuMPO) Policy Board has selected for implementation during the program period. OahuMPO's TIP is the adopted, short-term program of public transit, highway, bicycle, and pedestrian projects that will receive federal transportation funds here on Oahu. The TIP needs to be financially constrained; that is, there must be a reasonable expectation that projects that are identified will have the necessary federal and local funding.

The FFYs 2019-2022 TIP covers a period of four years (FFYs 2019-2022) and contains two additional years (FFYs 2023 and 2024) for informational purposes ("information only"). The TIP will be updated at least every four years, and revised as needed. Once approved by the Policy Board and Governor (or Governor's designee), the TIP becomes the Oahu element of the Statewide TIP (STIP).

The following types of projects are included in the TIP:

- Surface transportation projects that are proposed to be funded with federal funds;[1]
- Regionally-significant projects that require action by the Federal Highway Administration (FHWA) or the Federal Transit Administration (FTA), regardless of if these projects are federally-funded; and
- Regionally-significant projects that are proposed to be funded with non-federal funds or with federal funds other than those administered by the FHWA or the FTA, such as congressional earmarks. These projects are included in the TIP for informational purposes.

The TIP identifies transportation programs and projects totaling approximately $3.4 billion to be implemented during the four-year program period. The projects include those eligible for federal funding assistance, as well as regionally significant locally-funded projects.

[1] Under 23 U.S.C. and 49 U.S.C. Chapter 53 (including transportation enhancements, Federal Lands Highway Program projects, safety projects included in the State's Strategic Highway Safety Plan, trails projects, pedestrian walkways, and bicycle facilities).

3 DEVELOPMENT PROCESS

Many of the projects in the TIP are programmed over several years. For example, a highway improvement project consists of right-of-way acquisition, planning, design, and construction phases. Each of these phases may last one or more years. In addition to new projects, the TIP includes many projects that were programmed in previous years.

The TIP development process spans more than a year. The process is illustrated in Figure 1 and described below.

3.1 DEVELOPMENT OF FINANCIAL ESTIMATES

OahuMPO, HDOT, DTS and HART cooperatively formulate estimates of FHWA and FTA funds that are reasonably expected to be available for projects on the island of Oahu These estimates are usually based on historic data.

3.2 CALL FOR PROJECTS

OahuMPO formally calls for projects from the implementing agencies. In response, the HDOT, DTS and HART submit projects to be considered for inclusion in the TIP.

3.3 PUBLIC OUTREACH

3.3.1 Visualization

For visualization purposes, project location maps are developed for each project in the draft TIP, as applicable. Additional interactive project location maps are posted onto the OahuMPO website that allow the user to display layers that compare how each proposed project interacts with other plans and programs (e.g., conservation, natural resources, etc.).

3.3.2 Interested Parties

Opportunities are provided for interested parties to review and comment on the draft TIP project listing and financial plan. The draft TIP, as well as the interactive project location maps, are posted on the OahuMPO website during the public comment period. Information on the draft TIP is also distributed to the public via email or direct mail.

3.3.3 Public Open Houses

OahuMPO hosted three public open house dates: June 20, 21, and 28, 2018. The open houses were an opportunity for the public to provide OahuMPO feedback about projects scheduled in the TIP, and to ask questions about the TIP, its processes, and projects.

3.3.4 Agency Consultations

Details on the draft TIP are also circulated under OahuMPO's intergovernmental review process. A goal of the TIP process is to promote stakeholder relationships that foster cooperative efforts to achieve common transportation goals. Agencies responsible for planning activities that may be affected by the proposed transportation project are consulted for their perspectives on planning issues, needs, and priorities. Stakeholder agencies are provided with details on each TIP project, as well as the interactive project location maps, and are consulted with to ensure compatibility with their respective plans, maps, inventories, and planning documents.

3.3.5 Responses to Comments Received

All comments received, as well as responses to the comments, are provided to the Policy Board for their consideration when selecting projects for the final TIP. All comments made are provided in the comments disposition section (Appendix B).

3.4 TECHNICAL PROJECT EVALUATIONS

Various technical project evaluations are performed on the draft TIP for the purposes of assisting the Policy Board in selecting projects. These technical evaluations include the following:

- Compliance with federal planning factors;
- Detailed project evaluations, including consistency with relevant management system priorities;
- Consistency with the Oahu Regional Transportation Plan (ORTP);
- Consistency with the Oahu Regional Intelligent Transportation System (ITS) Architecture;
- Title VI (T6) and Environmental Justice (EJ) analysis; and
- Congestion Management Process (CMP) analyses.

The Technical Advisory Committee reviews the results of the technical evaluations prior to making a recommendation to the Policy Board.

3.5 PROJECT SELECTION

After reviewing the results of the agency consultations and the technical analyses, the Technical Advisory Committee makes a recommendation to the Policy Board regarding endorsement of the TIP. The Policy Board decides whether to endorse the TIP after considering and discussing the early project recommendations, public comments on the draft TIP, the results of the technical analyses, and the Technical Advisory Committee's recommendation. Following endorsement by the Policy Board, the TIP is also sent to the Governor's designee for approval. On June 17, 2015, Governor David Y. Ige re-designated the HDOT Director as the official responsible for approving the TIP and its amendments.

3.6 INCORPORATION OF THE TIP INTO THE STIP

Upon approval by the Policy Board and the Governor's designee, the TIP is incorporated, without change, as the Oahu element of the STIP.

3.7 FHWA AND FTA ACTION ON THE STIP

The TIP is jointly approved by FHWA and FTA as part of the STIP. The decision-making is dependent on the thoroughness and completion of the statewide transportation planning process used in developing the STIP, as required by federal code and regulation.

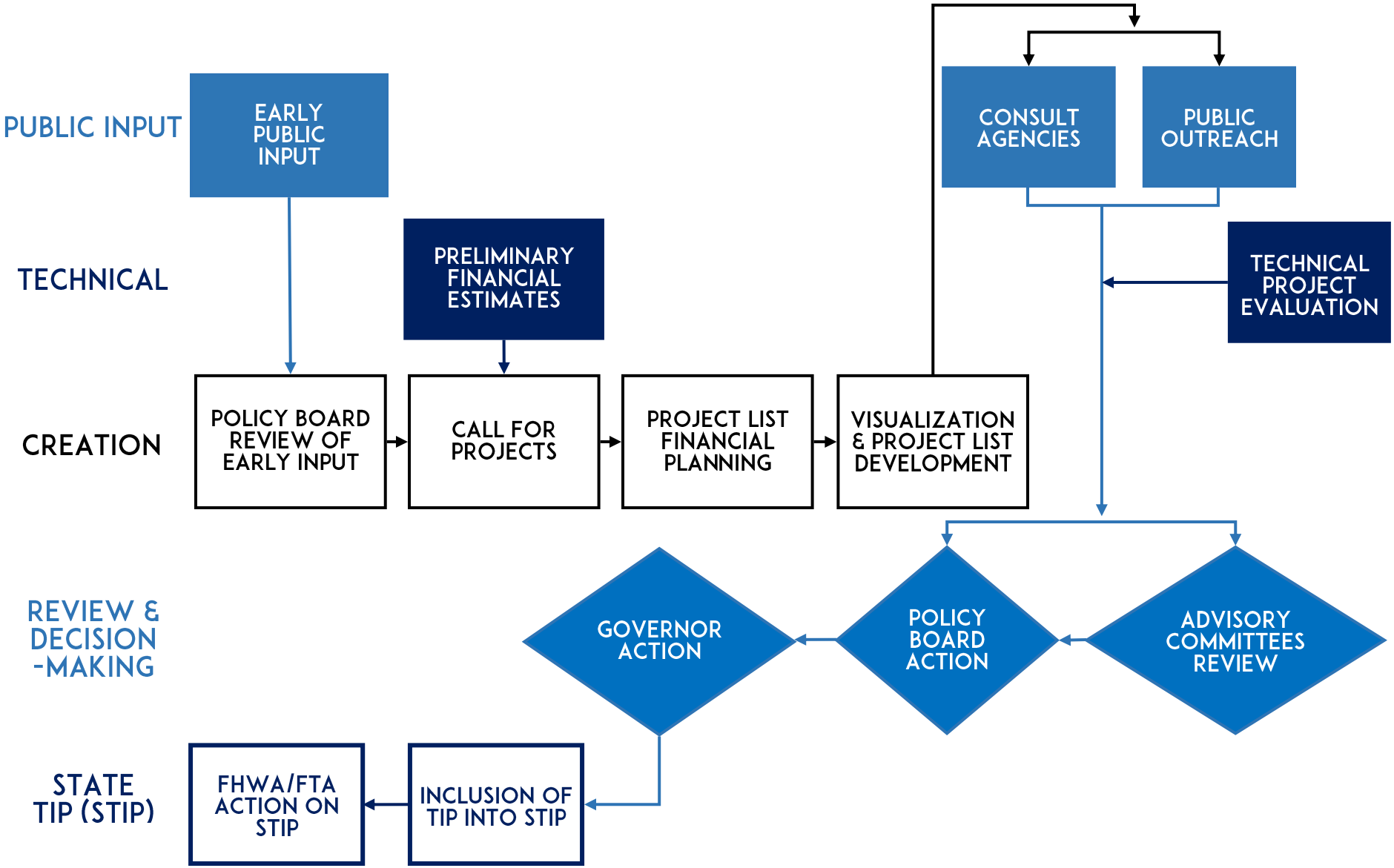


Figure 1. TIP Process.

4 REVISIONS

The TIP covers a period of no more than four years , and a new TIP will be adopted every four years. The TIP is frequently revised to reflect changes in project delivery schedules, changes in cost estimates and/or in scope, and changes in management systems and administrative priorities. These revisions are required to assure the efficient use of the annually-apportioned federal funds.

The following administrative provisions have been established to promote timely implementation and oversight of the TIP. A revision refers to a change to the TIP that occurs between triennial updates. A minor revision is an "administrative modification," while a major revision is an "amendment."

4.1 ADMINISTRATIVE MODIFICATIONS

Administrative modifications are minor revisions to the TIP. The Policy Board has identified two types of administrative modifications: pre-approved and expedited. These revisions do not require solicitation of public comment or re-demonstration of financial constraint. However, the following must be true:

- The administrative modifications must not affect the financial constraint of the TIP;
- The administrative modifications must not result in the addition or deletion of another project, including the deferral of a project to a year that is outside of the four-year TIP; and
- The affected project's implementing agency must concur with the actions.

4.1.1 Pre-approved Administrative Modifications

To prevent TIP procedures from becoming overly burdensome, federal regulations allow procedures for administrative modifications to be commensurate with its perceived impact. Recognizing the need to streamline the process for these minor changes, the Policy Board has pre-approved certain administrative modifications under the following circumstances:

- The sum of regular formula FHWA funds programmed for Oahu is not reduced; and
- The administrative modification does not change the design concept or scope of the project, or the prescribed environmental determination under the National Environmental Policy Act (NEPA) process.

The Policy Board is provided with copies of pre-approved administrative modifications.

[2] As defined in 23 CFR 450.104.

4.1.2 Expedited Administrative Modifications

Requests for expedited approval of administrative modifications are submitted directly to the Policy Board without prior review by the Technical Advisory Committee or solicitation of public comment.

4.2 AMENDMENTS

Amendments are revisions to the TIP that involve a major change to a project in the TIP. TIP amendments are submitted to the Technical Advisory Committee, the Policy Board, and the Governor's designee for action. Financial constraint is re-demonstrated, and the technical project analyses are reevaluated. Public comments are also solicited based on the strategies and procedures outlined in the *OahuMPO Participation Plan*.

4.3 REVISION EXAMPLES

Table 1 (Pages 16-17) provides examples of administrative modifications and amendments.

Table 1. Examples of Administrative Modifications and Amendments.

Revision	A. Pre-Approved Administrative Modification	B. Expedited Administrative Modification	C. Amendment*
Project	1. Advancing a project from its programmed year if it is ready-to-go.** 2. Deferring a project to a later year within the current TIP if it is not ready-to-go as originally programmed. 3. Revising, clarifying, or expanding a project's description as long as the project's scope is not modified. 4. Splitting or grouping projects (e.g., guardrail replacement or bridge rehabilitation) as long as the scope remains unchanged, and the funding amounts stay within the guidelines in Table 2, C.8. 5. Adding or deleting projects from grouped listings as long as the funding amounts stay within the guidelines in Table 2, C.8. 6. Revising projects that are included in the TIP for illustrative purposes.	1. Changing the scope of a project to accommodate prescribed actions made under NEPA processes and requirements 2. Changing the size of revenue rolling stock (e.g., vans, 30' buses, 40' buses, 60' buses) if the change results in a change in the total carrying capacity by 20 percent or less. 3. Changing the quantity for revenue rolling stock that exceeds 20 percent (plus or minus) of the original quantity, if the change in quantity results in a change in the total carrying capacity by 20 percent or less.	1. Adding a project to the TIP. 2. Deleting a project from the TIP, including deferring a project to a year that is outside of the four-year TIP. 3. Modifying the design concept or design scope of a programmed project (e.g., changing the project termini or the number of through traffic lanes). 4. For projects programmed with FTA funds, a change in a project's scope is considered "major" if the change materially alters the objective or description of the project, or the size, type, or quantity of items. Examples include: a. Changing from replacement buses to expansion buses (and vice versa); b. Changing the size of revenue rolling stock (e.g., vans, 30' buses, 40' buses, 60' buses) if the change results in a change in the total carrying capacity by more than 20 percent. c. Changing the quantity for revenue rolling stock that exceeds 20 percent (plus or minus) of the original quantity, if the change in quantity results in a change in the total carrying capacity by more than 20 percent.

Revision	A. Pre-Approved Administrative Modification	B. Expedited Administrative Modification	C. Amendment
Project Phase***	7. Deleting or deferring a project phase to a year that is outside of the four-year TIP, as long as another phase of the project remains in the TIP and the project's scope is not modified.	4. Adding a project phase to an existing project, as long as the phase is estimated to be $3 million or less and the project's scope is not modified.	5. Adding a project phase to an existing project, if the phase is estimated to be more than $3 million. 6. Deferring a project phase to a year that is outside of the four-year TIP, when there are no other project phases in the TIP and the project's scope is modified.
Funding Source	8. Revising the source of federal funds designated for a project to reflect a different funding program administered by the same U.S. DOT operating agency (e.g., NHS to STP). 9. Changing a project's funding from federal to local or state funding. 10. Adding additional federal funding, such as congressional earmarks or discretionary funds, to a project currently included in the TIP.	5. Changing a project's funding from local or state funds to federal funds.	7. Switching from FTA to FHWA funds (and vice versa).
Cost Estimates	11. Revising the amount programmed for a project phase to reflect changes in cost estimates, as long as it does not meet the thresholds identified in Table 2, C.8.	6. Reducing the sum of regular formula FHWA funds programmed for Oahu.	8. Revising the amount programmed for a project phase, if all of these thresholds are met: a. The total estimated project cost, after the revision, exceeds $10 million; and b. The amount programmed for the federal portion of the project cost is increased by more than 50%; and c. The total estimated project cost is increased by more than $3 million.

FOOTNOTES

* Amendments include revisions that are not listed as administrative modifications.

** Projects must be "ready-to-go" in the year that they are programmed to be funded, as defined in 23 CFR 450.220(e). Projects must have cleared previous federal requirements, which include:

a. Construction projects must have FHWA-approved Plans, Specifications, and Estimates (PS&E).
b. For projects heading into construction, land for the project must also have already been acquired.
c. Design projects must have cleared all NEPA requirements.
d. Rights-of-Way acquisition cannot occur without clearing NEPA requirements.
e. All projects must also have the appropriate matching local funds in place.

*** For example, design or right-of-way, as defined in 23 CFR 450.324(e). Refer to Section 1.2.4 for a list of project phases.

5 TIP HISTORY

The FFYs 2019-2022 TIP was endorsed by the Policy Board in July 2018.

5.1 REVISION HISTORY

The revision documents are on the OahuMPO TIP webpage:

http://www.oahumpo.org/plans-and- programs/transportation-improvement-program-tip/

The FFYs 2019-2022 TIP was revised three times through Feburaury 2019. Table 2 describes the Revisions for the reader's understanding.

Table 2. Revisions as of January 2019

Revision Number	Description
Pre-Approved Administrative Modifications	
1	January 2019: Deferred projects, refined project phasing, revised cost estimates.
Expedited Administrative Modifications	
2	February 2019: Deferred projects, revised funding categories, and revised cost estimates.
Amendments	
3	February 2019: Re-added project, removed projects, deferred projects, added phasing.

6 ALL PROJECTS AS OF REVISION 3

6 ALL PROJECTS AS OF REVISION 3

6.1 LIST OF PROJECTS

The TIP project listing below is in alphabetical order and is grouped by project sponsor and federal funding. A TIP project identification number is also identified for each project. A project number preceded by an "O" which represents that the project is located on Oahu, followed by an "S" for State-sponsored project or a "C" for City-sponsored project. All dollar amounts are in thousands (x1000).

PROJECT NUMBER	Project Name (Alphabetical by Project Name)	TOTAL AMOUNT PROGRAMMED (x1000) 2019	2020	2021	2022	FOR INFORMATION ONLY 2023	2024	Total Programmed
FHWA - Funding Projects								
State of Hawaii - Sponsored Projects								
OS1	Bridge and Pavement Improvement Program, Oahu	35,400	35,400	35,400	35,400	35,400	35,400	212,400
OS76	Bridge Rehabilitation Program, Various Locations	0	0	1,120	14,000	10,500	16,300	41,920
OS77	Bridge Replacement Program, Various Locations	0	0	720	12,950	22,850	30,535	67,055
OS78	Bridge Seismic Retrofit Program, Various Locations	0	0	240	360	3,210	1,051	4,861
OS12	Destination Sign, Upgrade and Replacement	0	7,000	550	1,100	10,450	0	19,100
OS4	Farrington Highway (Route 93), Bridge Replacement, Makaha Bridges #3 & #3A	1,200	22,200	0	0	0	0	23,400
OS69	Farrington Highway (Route 93), Safety Improvements, H-1 Freeway to Pohakunui Avenue	0	2,250	0	0	0	0	2,250
OS5	Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78)	0	740	11,102	1,200	200	20,300	33,542
OS57	Freeway Management System, Joint Traffic Management Center Operations (State)	350	350	350	350	350	350	2,100
OS9	Freeway Service Patrol	3,500	7,000	4,000	4,000	4,000	4,000	26,500
OS10	Guardrail and Shoulder Improvements, Various Locations	177	100	2,170	100	2,000	0	4,547
OS11	ITS Operation and Maintenance	285	285	500	500	500	500	2,570
OS59	Interstate Route H-1, Eastbound Improvements, Waiawa Interchange to Halawa Interchange	0	1,500	0	500	0	0	2,000
OS14	Interstate Route H-1, Guardrail and Shoulder Improvements, Kapiolani Interchange to Ainakoa Avenue	11,500	0	0	0	0	0	11,500
OS17	Interstate Route H-1,Kapolei Interchange Complex Phase 2	0	0	0	0	0	0	0

PROJECT NUMBER	Project Name (Alphabetical by Project Name)	TOTAL AMOUNT PROGRAMMED (x1000) 2019	2020	2021	2022	FOR INFORMATION ONLY 2023	2024	Total Programmed
FHWA - Funding Projects								
State of Hawaii - Sponsored Projects								
OS67	Interstate Route H-1, Reconstruction and Repair, Eastbound, Waimalu Interchange to Halawa	0	0	0	0	0	0	0
OS20	Interstate Route H-1 Safety Improvement, Beginning of H-1 (Palailai Interchange) to Waiawa Overpass	0	0	0	0	0	0	0
OS74	Interstate Route H-1, Seismic Retrofit, McCully Street Separation	0	0	0	286	429	2,440	3,155
OS70	Interstate Route H-1, Seismic Retrofit, Waialae Viaduct	0	0	664	1,000	6,100	0	7,764
OS26	Kalanianaole Highway (Route 72) Resurfacing, Poalima Street to Huli Street	0	7,043	0	0	0	0	7,043
OS28	Kamehameha Highway (Route 83), Bridge Replacement, Kaipapau Stream Bridge	0	17,800	0	0	0	0	17,800
OS29	Kamehameha Highway (Route 83), Bridge Replacement, Kaluanui Stream Bridge	9,870	0	0	0	0	0	9,870
OS31	Kamehameha Highway (Route 83), Bridge Replacement, Laieloa Stream Bridge	210	9,800	0	0	0	0	10,010
OS71	Kamehameha Highway (Route 83), Bridge Rehabilitation, Paumalu Bridge	0	0	1,000	400	560	10,000	11,960
OS34	Kamehameha Highway (Route 83), Bridge Replacement, Waiahole Bridge	585	15,000	0	0	0	0	15,585
OS72	Kamehameha Highway (Route 83), Bridge Replacement, Waimanana Bridge	0	0	650	930	740	9,200	11,520
OS36	Kamehameha Highway (Route 83), Bridge Replacement, Waipilopilo Stream Bridge	1,030	0	9,700	0	0	0	10,730
OS61	Kamehameha Highway (Route 83), Realignment, Vicinity of Kawailoa Beach	0	3,000	55	0	1,020	0	4,075

PROJECT NUMBER	Project Name (Alphabetical by Project Name)	TOTAL AMOUNT PROGRAMMED (x1000) 2019	2020	2021	2022	FOR INFORMATION ONLY 2023	2024	Total Programmed
FHWA - Funding Projects								
State of Hawaii - Sponsored Projects								
OS75	Kamehameha Highway (Route 83) Rockfall Protection, Waimea Bay	0	900	50	10,500	0	8,000	19,450
OS41	Kamehameha Highway (Route 83) Wetland Enhancement, Vicinity of Ukoa Pond	6,600	0	0	0	0	0	6,600
OS43	Leeward Bikeway, Philippine Sea Road to Waipahu Depot Street	9,454	0	0	0	0	0	9,454
OS73	Likelike Highway (Route 63), Safety Improvements, Emmeline Place to Kahekili Highway	0	0	2,700	0	0	0	2,700
OS45	Moanalua Freeway (Route H-201), Highway Lighting Improvements, Halawa Heights Off-Ramp to Middle Street Overpass	0	0	0	0	0	0	0
OS44	Moanalua Freeway (Route 78) and Interstate Route H-2, Guardrail and Shoulder Improvements, Phase 2	0	10,000	0	0	0	0	10,000
OS62	Pali Highway (Route 61) Resurfacing & Lighting Improvements, Vineyard Blvd (Route 98) to Kamehameha Highway (Route 83)	18,000	0	0	0	0	0	18,000
OS49	Recreational Trails Program - Oahu	359	359	359	359	359	359	2,154
OS52	Sand Island Access Rd (Route 64), Truck Weigh Station, Kapalama Container Terminal	5,200	0	0	0	0	0	5,200
OS79	Shoreline Protection/Mitigation Program	0	2,500	2,000	6,500	2,000	15,000	28,000
OS63	Traffic Counting Stations, Various Locations	0	2,575	0	0	0	0	2,575
State of Hawaii - FHWA Total		103,720	145,802	73,330	90,435	100,668	153,435	667,390

PROJECT NUMBER	Project Name (Alphabetical by Project Name)	TOTAL AMOUNT PROGRAMMED (x1000) 2019	2020	2021	2022	FOR INFORMATION ONLY 2023	2024	Total Programmed
FHWA - Funding Projects								
City and County of Honolului - Sponsored Projects								
OC1	Alapai Transportation Management Center	2,750	750	463	475	488	875	5,801
OC2	Bikeway Improvements Program	301	326	300	100	1,500	0	2,527
OC3	Bridge Inspection, Inventory, and Appraisal	1,000	1,000	1,000	1,000	1,000	1,000	6,000
OC4	Computerized Traffic Control System	0	500	4,530	3,900	3,900	0	12,830
OC8	Traffic Improvements at Various Locations	2,461	650	3,025	2,500	2,500	1,250	12,386
OC10	Traffic Signals at Various Locations	3,914	4,570	5,259	3,751	8,242	4,441	30,177
OC23	Salt Lake Boulevard Widening, Phase 3	110	44,165	43,805	0	0	0	88,080
OC25	Transportation Alternatives Program (MPO) at Various Locations	1,300	1,100	0	8,589	0	0	10,989
OC26	Transportation Alternative Program (State) at Various Locations	425	200	1,500	0	0	0	2,125
OC27	Farrington Highway (Routes 7100 and 9107) Improvements	4,000	15,020	0	15,000	87,000	0	121,020
OC28	Safe Routes to School (SRTS) Program	0	25	0	0	370	0	395
OC29	Federal Access Lands Program (FLAP) - Pearl Harbor Multimodal Connection Alternatives	733	6,033	0	0	0	0	6,766
City and County of Honolulu - FHWA Total		16,994	74,339	59,882	35,315	105,000	7,566	299,096
FHWA Total		120,714	220,141	133,212	125,750	205,668	161,001	966,486

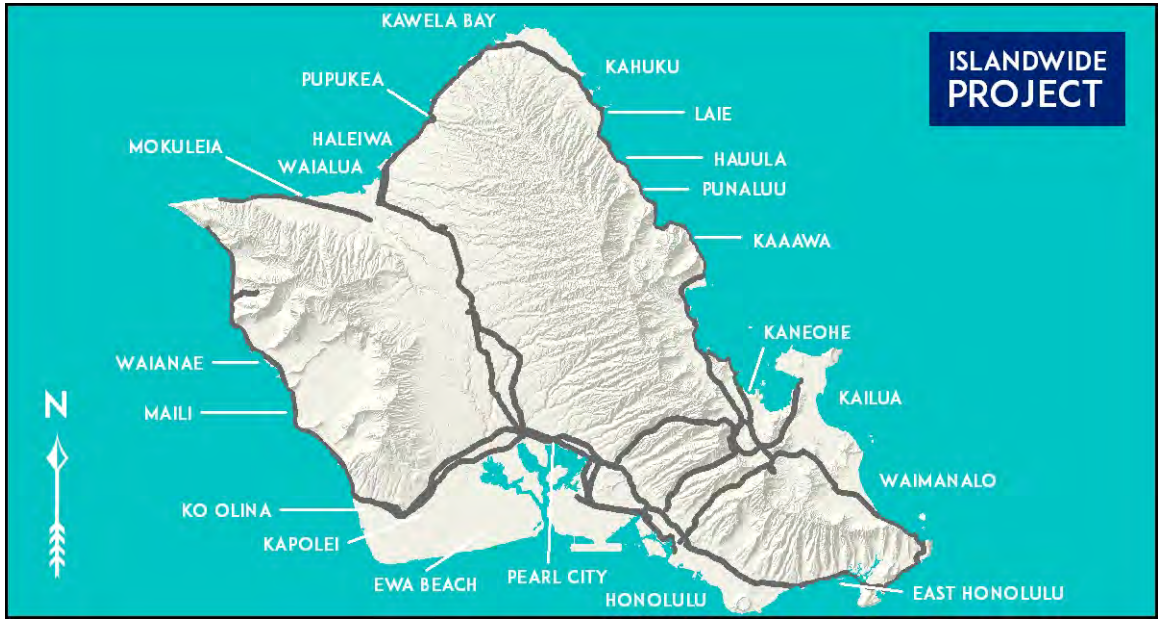
PROJECT NUMBER	Project Name (Sorted by Project name)	TOTAL AMOUNT PROGRAMMED (x1000) 2019	2020	2021	2022	FOR INFORMATION ONLY 2023	2024	Total Programmed
FTA - Funding Projects								
State of Hawaii - Sponsored Projects								
OS50	Transportation Assistance for Elderly and Disabled	544	560	576	594	613	632	3,519
OS68	State Safety Oversight Program	290	299	307	316	326	336	1,874
State of Hawaii - FTA Total		834	859	883	910	939	968	5,393
FTA - Funding Projects								
City and County of Honolulu - Sponsored Projects								
OC13	Bus and Handi-Van Acquisition Program	42,743	15,959	21,667	22,528	22,979	23,436	149,312
OC20	Preventive Maintenance	26,250	26,250	26,250	26,250	26,250	26,250	157,500
OC21	Transit Safety and Security Projects	360	367	373	380	381	385	2,246
OC24	Capital Training	26	28	28	29	30	30	171
OC16	Honolulu Rail Transit Project	839,908	834,033	480,035	0	0	0	2,153,976
City and County of Honolulu - FTA Total		909,287	876,637	528,353	49,187	49,640	50,101	2,463,205
FTA Total		910,121	877,496	529,236	50,097	50,579	51,069	2,468,598

6.2 Project Information Sheets

6.2.1 Oahu State (OS) Projects

6.2.1.1 FHWA-Funded Oahu State Projects

OS1 Bridge and Pavement Improvement Program, Oahu



Project Description:
This is an ongoing islandwide program for the system maintenance of highway bridges and pavement. The Special Maintenance Program (SMP) is a program that funds individual repair or maintenance projects that do not normally occur annually. SMP funds have funded resurfacing, pavement, and bridge preservation projects (System Preservation). Work may include bridge and/or pavement reconstruction, resurfacing, restoration, rehabilitation, and/or preservation. Yearly lump sum amounts represent total SMP State funding levels anticipated for the Oahu 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: http://hidot.hawaii.gov/highways/other/other-related-links/stip

Neighborhood(s): Various Locations

Estimated Total Project Cost: $212,400,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

Project Sponsor: State of Hawaii (FHWA Funded)

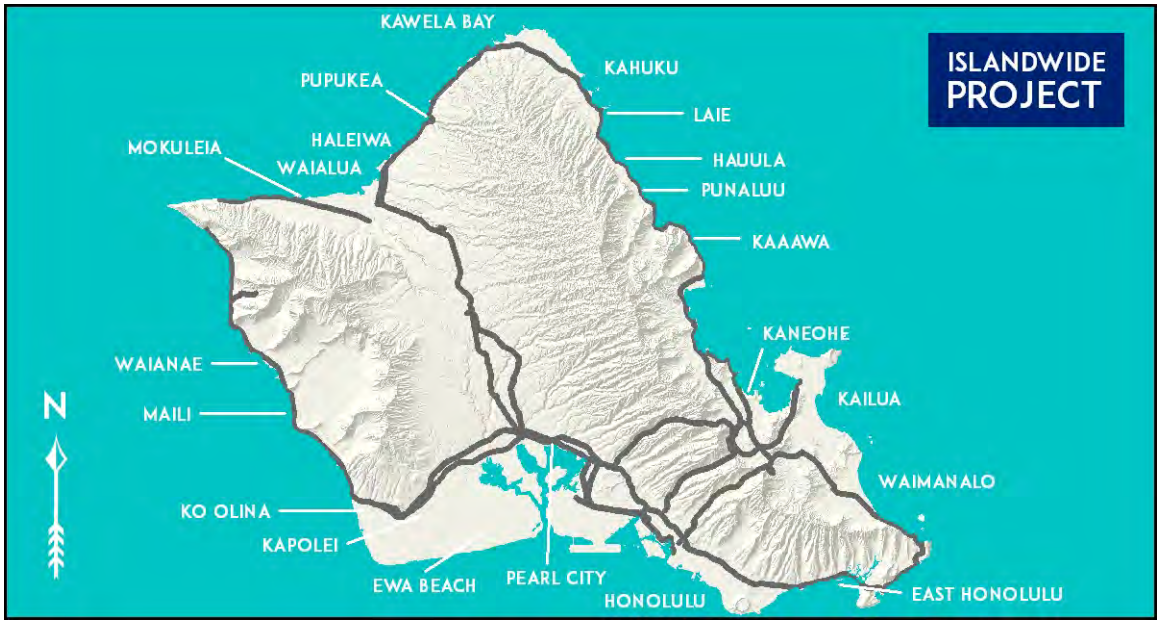
Agency Responsible for Carrying Out Project/Phase:
Hawaii Department of Transportation

OS1 Bridge and Pavement Improvement Program, Oahu

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Bridge and Pavement Improvement Program, Oahu																			
CON	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	Local Only
Kalihi Street (Route 63) Resurfacing: Nimitz Highway to School Street (MP 0 - 1.15)																			
ADVCON	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	35,400	2,000	33,400	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	35,400	0	35,400	

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.)

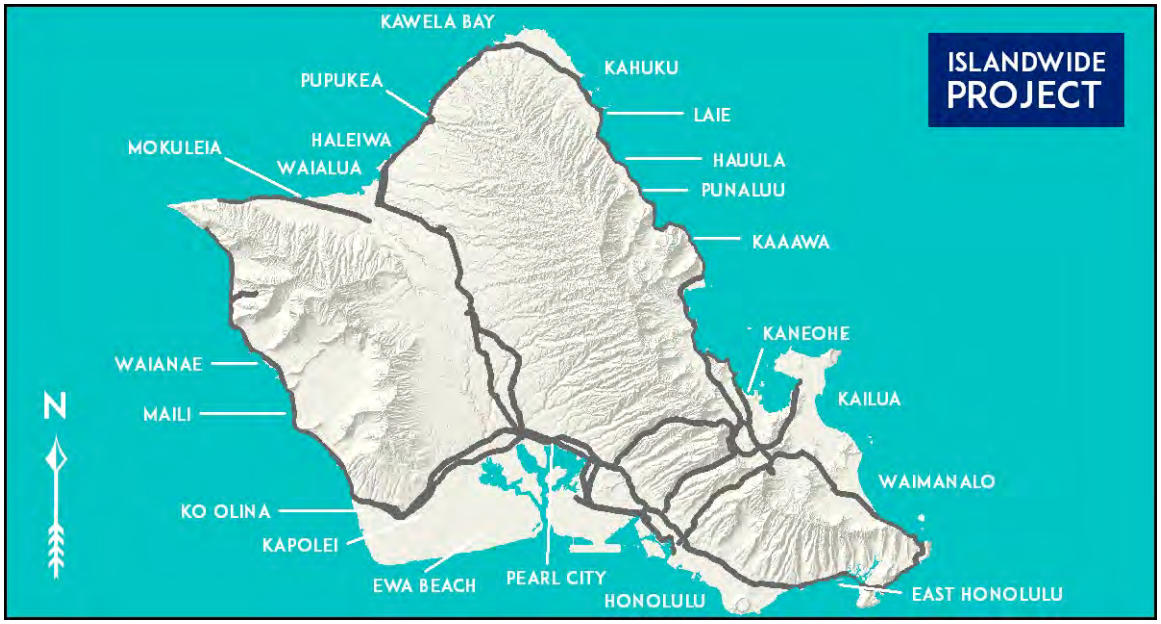
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Various Locations TBD by BRM																			
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.)

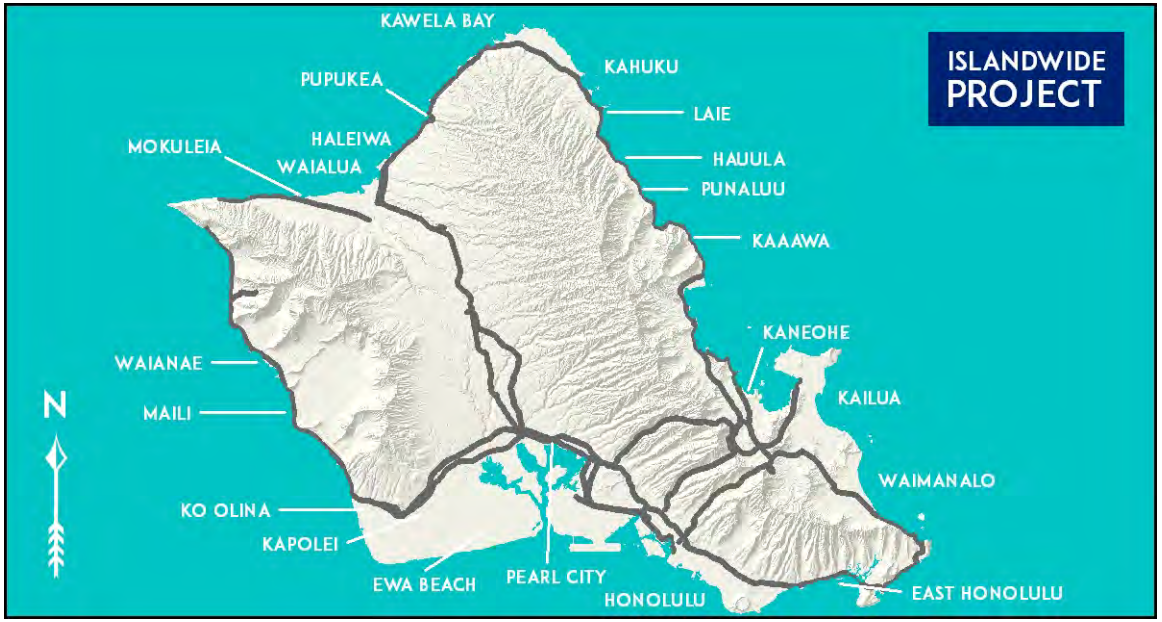
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Various Locations TBD by BRM																			
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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Various Locations TBD by Seismic Retrofit Management Program																			
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	

OS12 Destination Sign Upgrade and Replacement

Project Description:
Replace and/or upgrade the existing destination signs and sign support structures on Interstate Routes H-1, H-2, H-201, and Pali Highway.

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: $29,000,000
(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)

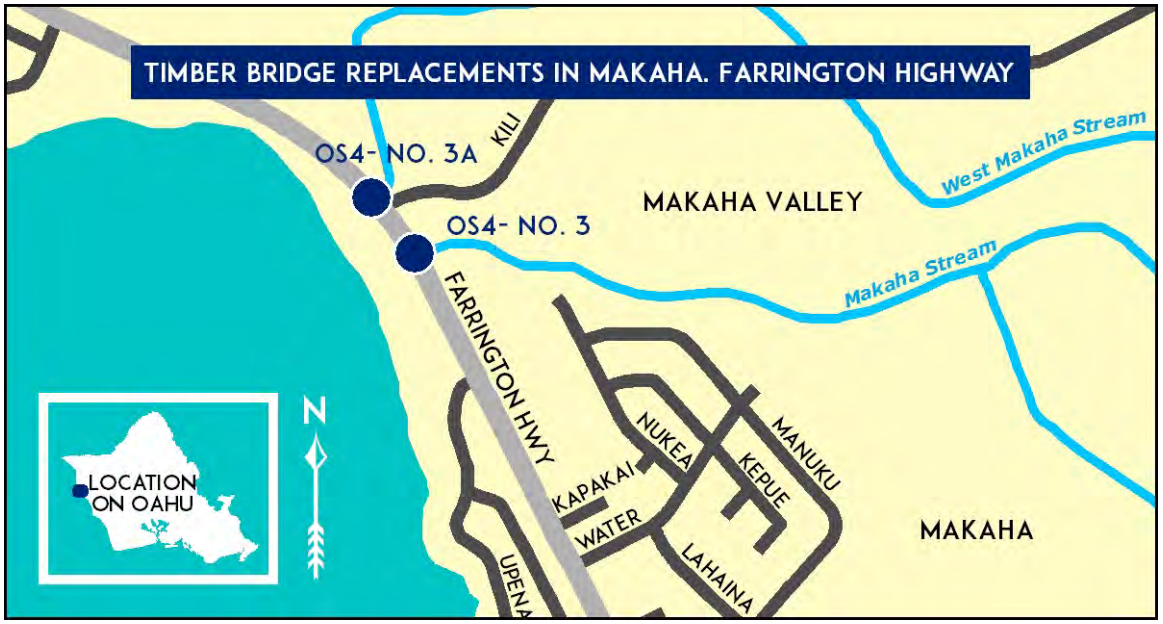
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	Total (X$1000)	Federal (X$1000)	Local (X$1000)	Total (X$1000)	Federal (X$1000)	Local (X$1000)	Total (X$1000)	Federal (X$1000)	Local (X$1000)	Total (X$1000)	Federal (X$1000)	Local (X$1000)	Total (X$1000)	Federal (X$1000)	Local (X$1000)	Total (X$1000)	Federal (X$1000)	Local (X$1000)	Funding Category
Phase II																			
ADVCON	0	1,000	(1,000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
Phase III																			
CON	0	0	0	7,000	5,600	1,400	0	0	0	0	0	0	0	0	0	0	0	0	NHPP

OS12 Destination Sign Upgrade and Replacement

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase IV																			
PE1	0	0	0	0	0	0	550	440	110	0	0	0	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	800	640	160	0	0	0	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	10,000	6,000	4,000	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,000	(2,000)	NHPP
Phase V																			
PE1	0	0	0	0	0	0	0	0	0	300	270	30	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	0	0	0	450	405	45	0	0	0	NHPP
TOTAL	0	1,000	(1,000)	7,000	5,600	1,400	550	440	110	1,100	910	190	10,450	6,405	4,045	0	2,000	(2,000)	

OS4 Farrington Highway (Route 93), Bridge Replacement, Makaha Bridges #3 & #3A



Project Description:
Replace two timber bridges in the vicinity of Makaha Beach Park. For both bridges, the scope incudes widening the paved shoulders on the makai side from 3 feet to 10 feet; and widening the mauka side from 1 foot to 10 feet. This is to accommodate bicyclists and pedestrians.

Mile Post/s: MP 14.20 to MP 14.10

Complete Streets (CS):

Project will implement: Shared-use paths of 10 feet or greater width

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Waianae Coast

Estimated Total Project Cost: $25,200,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ROW	1,200	960	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
CON	0	0	0	22,200	760	21,440	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	5,000	(5,000)	0	12,000	(12,000)	0	0	0	0	0	0	NHPP
TOTAL	1,200	960	240	22,200	760	21,440	0	5,000	(5,000)	0	12,000	(12,000)	0	0	0	0	0	0	

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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	0	0	0	2,250	25	2,225	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	HSIP
TOTAL	0	0	0	2,250	25	2,225	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	

OS5 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 & 78)

Project Description:
The project consists of the installation of closed-circuit television (CCTV) cameras, vehicle detectors, cabinets, and communication equipment on the Interstate H-1, H-2, and Moanalua Freeway (Routes 201 amd 78). Minor interior modifications of the Interstate Route H-3 Control Center will also be done to accommodate system improvements. This project will be implemented in phases.

The Freeway Management System's System Manager will assist the State with managing and guiding the Intelligent Transportation System (ITS) program. This incudes software development, equipment procurement assistance, acceptance testing, performance monitoring, and strategic planning.

Mile Post/s: Queen Liliuokalani Freeway: MP 0.00 to MP 27.16, Veterans Memorial Freeway: MP 0.00 to MP 8.33, John A. Burns Freeway: MP 0.00 to MP 15.32

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: $200,000,000
(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

OS5 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 & 78)

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

													FOR INFORMATION ONLY						
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
Phase	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)	Funding Category
Phase 2A																			
ADVCON	0	4,960	(4,960)	0	3,000	(3,000)	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
Phase 3																			
PE2	0	0	0	740	592	148	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
CON	0	0	0	0	0	0	10,302	4,000	6,302	0	0	0	0	0	0	0	0	0	
ADVCON	0	0	0	0	0	0	0	0	0	0	1,242	(1,242)	0	3,000	(3,000)	0	0	0	NHPP
Phase 4																			
PE1	0	0	0	0	0	0	800	640	160	0	0	0	0	0	0	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	1,200	960	240	0	0	0	0	0	0	NHPP
CON	0	0	0	0	0	0	0	0	0	0	0	0	0			20,000	8,000	12,000	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
Phase 5																			
PE1	0	0	0	0	0	0	0	0	0	0	0	0	200	180	20	0	0	0	NHPP
PE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	270	30	NHPP
TOTAL	0	4,960	(4,960)	740	3,592	(2,852)	11,102	4,640	6,462	1,200	2,202	(1,002)	200	3,180	(2,980)	20,300	8,270	12,030	

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

Project Description:
These funds will be required for the State share of the annual operating expenses for the JTMC, which includes normal building operations and a JTMC Manager. The State share has been calculated based on methodology that involves the estimated square footage that the State will occupy.

Mile Post/s:

Complete Streets (CS):

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

Project Website: http://www.honolulu.gov/jtmc

Neighborhood(s): Ala Moana-Kakaako

Estimated Total Project Cost: $2,100,000
(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						
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
Phase	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)	Funding Category
OPR	350	280	70	350	280	70	350	280	70	350	280	70	350	280	70	350	280	70	NHPP

OS9 Freeway Service Patrol

Project Description:
Operate roving service patrols along the Interstate H-1, Moanalua Freeway, and Interstate H-2. Services include towing of disabled vehicles; removing debris; providing basic fire extinguisher use; deploying traffic control devices; assisting the Honolulu Police Department, Honolulu Fire Department, and Emergency Medical Services at crash scenes and other incidents; assisting sick or injured motorists with basic first aid; and notifying 911 of incidents.

Mile Post/s: Queen Liliuokalani Freeway: MP 5.37 to MP 27.16, Veterans Memorial Freeway: MP 0.00 to MP 2.46, Moanalua Freeway: MP 0.00 to MP 4.09

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: Not applicable

Project Website: http://www.fsphawaii.com

Neighborhood(s): Various Locations

Estimated Total Project Cost: $26,500,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
OPR	3,500	3,150	350	7,000	6,300	700	4,000	3,600	400	4,000	3,600	400	4,000	3,600	400	4,000	3,600	400	NHPP
TOTAL	3,500	3,150	350	7,000	6,300	700	4,000	3,600	400	4,000	3,600	400	4,000	3,600	400	4,000	3,600	400	

OS10 Guardrail and Shoulder Improvements, Various Locations

Project Description:
Install and upgrade guardrails to bridge end post connections, bridge railing, guardrail end terminals, crash attenuators, miscellaneous drainage, and other appurtenant improvements.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Install various safety features including guardrails and crash attenuators

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $4,547,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

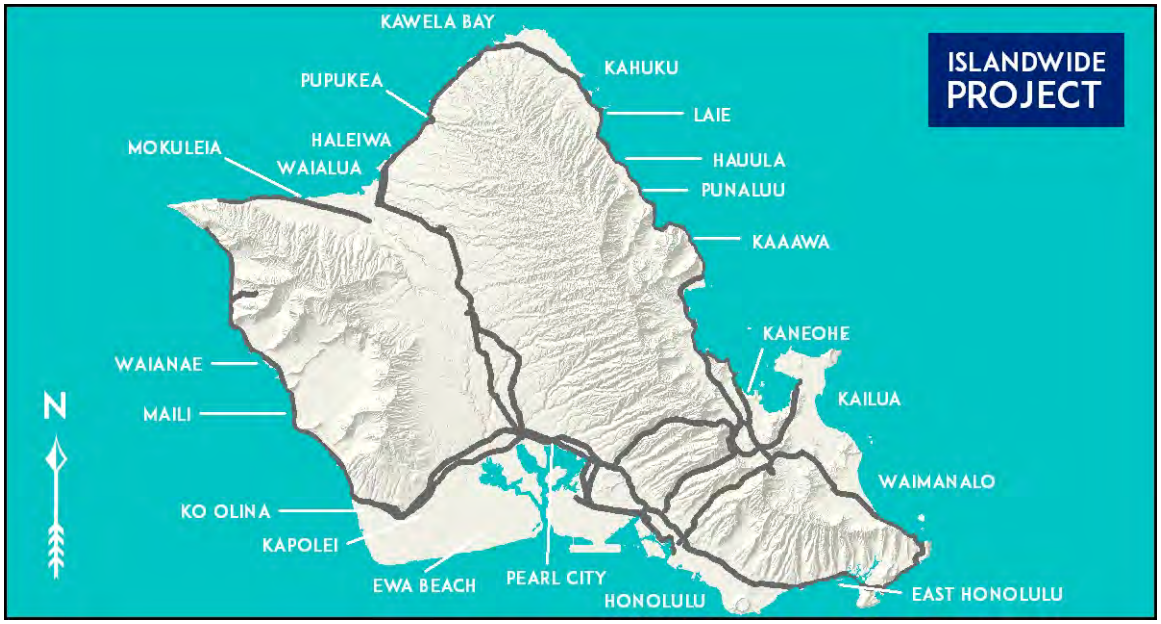
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 2																			
PE1	177	0	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HSIP
PE2	0	0	0	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	HSIP
CON	0	0	0	0	0	0	2,000	1,600	400	0	0	0	0	0	0	0	0	0	HSIP
Phase 3																			
PE1	0	0	0	0	0	0	170	0	170	0	0	0	0	0	0	0	0	0	HSIP
PE2	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	HSIP
CON	0	0	0	0	0	0	0	0	0	0	0	0	2,000	1,600	400	0	0	0	HSIP
TOTAL	177	0	177	100	0	100	2,170	1,600	570	100	0	100	2,000	1,600	400	0	0	0	

OS11 ITS Operation and Maintenance



Project Description:
Annual costs to operate and maintain the ongoing and existing ITS program. This includes costs for the operation and maintenance of CCTVs and vehicle detection equipment. This also includes costs for telecommunication and server hosting services.

Mile Post/s: Queen Liliuokalani Freeway: MP 0.00 to MP 27.16, Veterans Memorial Freeway: MP 0.00 to MP 8.33, John A. Burns Freeway: MP 0.00 to MP 15.32

Complete Streets (CS):

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

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $2,570,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

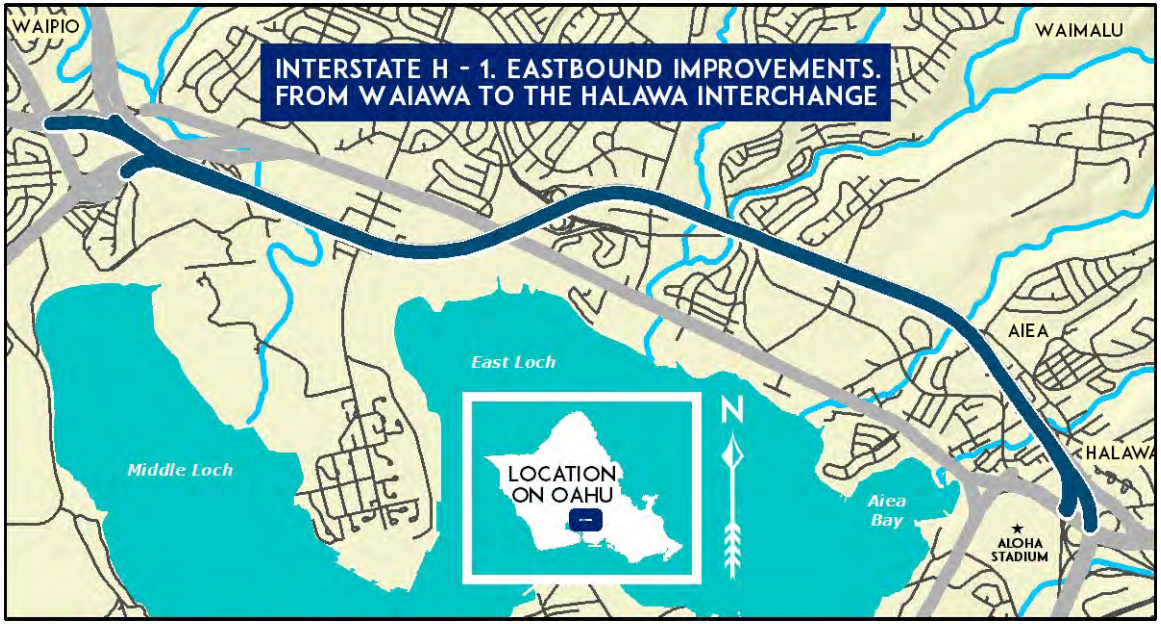
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
OPR	285	255	30	285	255	30	500	450	50	500	450	50	500	450	50	500	450	50	NHPP
TOTAL	285	255	30	285	255	30	500	450	50	500	450	50	500	450	50	500	450	50	

OS59 Interstate Route H-1, Eastbound Improvements, Waiawa Interchange to Halawa Interchange



Project Description:
Capacity/congestion improvements through the most well-travelled section of the primary urban corridor. Improvements could include adding a through lane and/or improving ramps, shoulders, and geometrics.

Mile Post/s: MP 8.68 to MP 13.03

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): H-1 Travel Corridor

Estimated Total Project Cost: $90,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

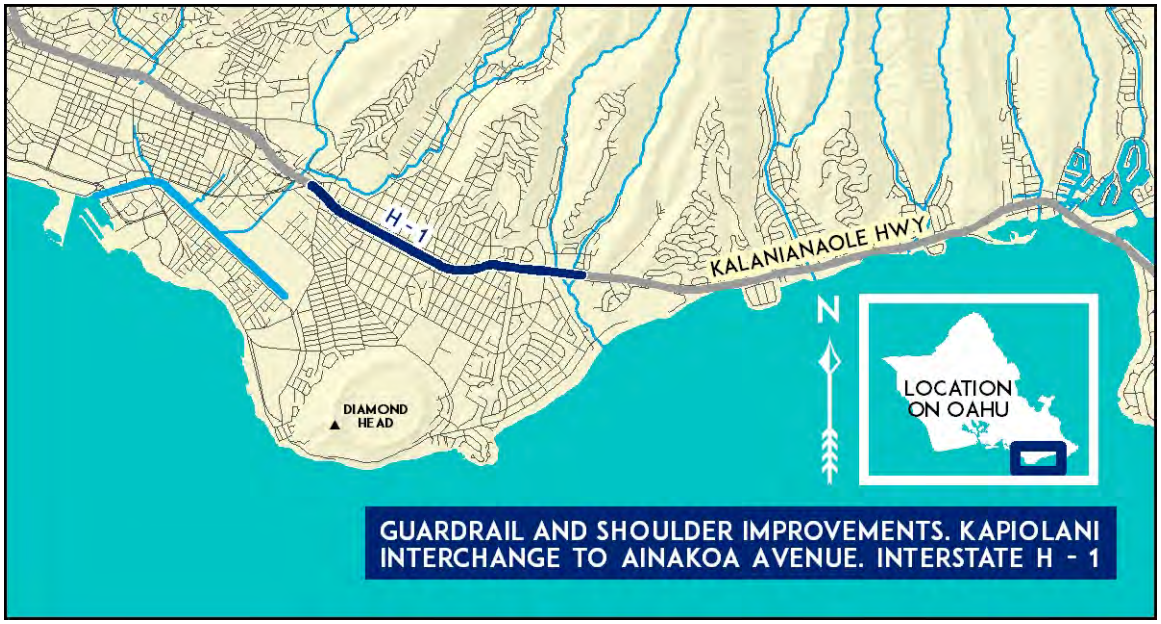
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
PE2	0	0	0	1,500	1,200	300	0	0	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	NHPP
TOTAL	0	0	0	1,500	1,200	300	0	0	0	500	400	100	0	0	0	0	0	0	

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



Project Description:
Install and/or upgrade existing guardrails, crash cushions, concrete barriers to meet current standards. Upgrade lighting.

On Westbound Kalanianaole Highway, just before the Ainakoa Intersection, the shoulder and bike lane tapers off until it disappears at Ainakoa. To the west on H-1, and on the off-ramp to below the viaduct towards Kahala Mall, a shoulder and bike lane reappears. The project will close that gap in the bike lane, by taking space from the median on H-1.

Mile Post/s: MP 25.24 to MP 27.16

Complete Streets (CS):

Project will implement: Close gap in bike lane.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Diamond Head-Kapahulu-St. Louis Heights, Kaimuki, McCully-Moiliili, Waialae-Kahala

Estimated Total Project Cost: $12,500,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

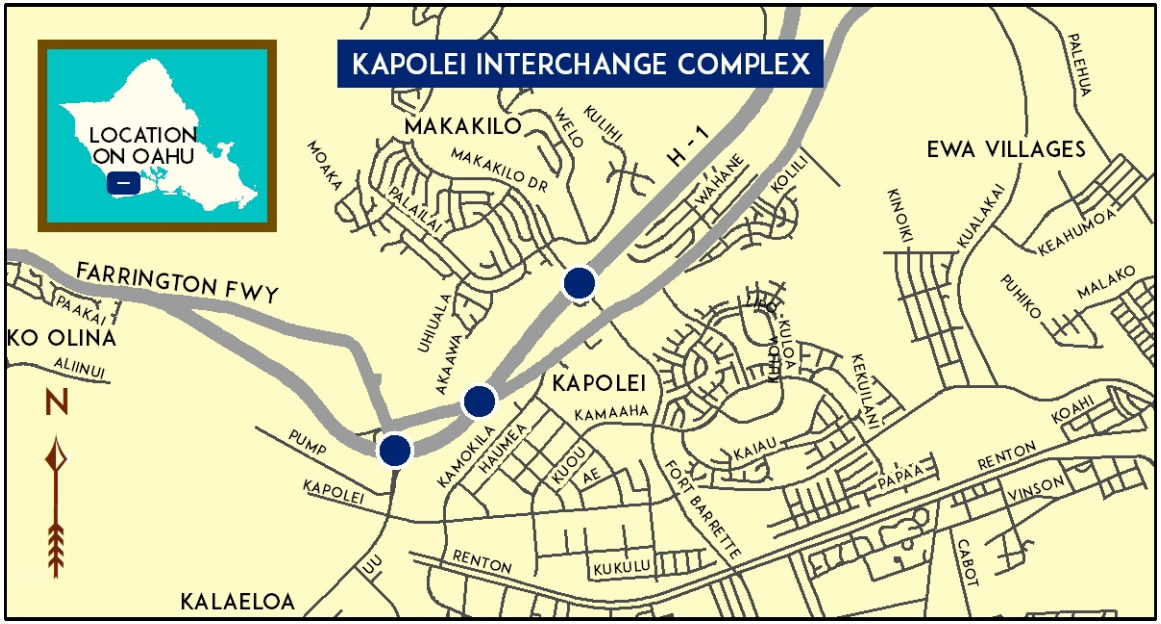
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	11,500	500	11,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	3,700	(3,700)	0	5,000	(5,000)	0	0	0	0	0	0	0	0	0	NHPP

OS17 Interstate Route H-1, Kapolei Interchange Complex



Project Description:
Phase 2 will complete the construction of the Wakea Street Separation and its associated ramps.

Mile Post/s: MP 0.34 to MP 0.79

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): Makakilo-Kapolei-Honokai Hale

Estimated Total Project Cost: $139,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

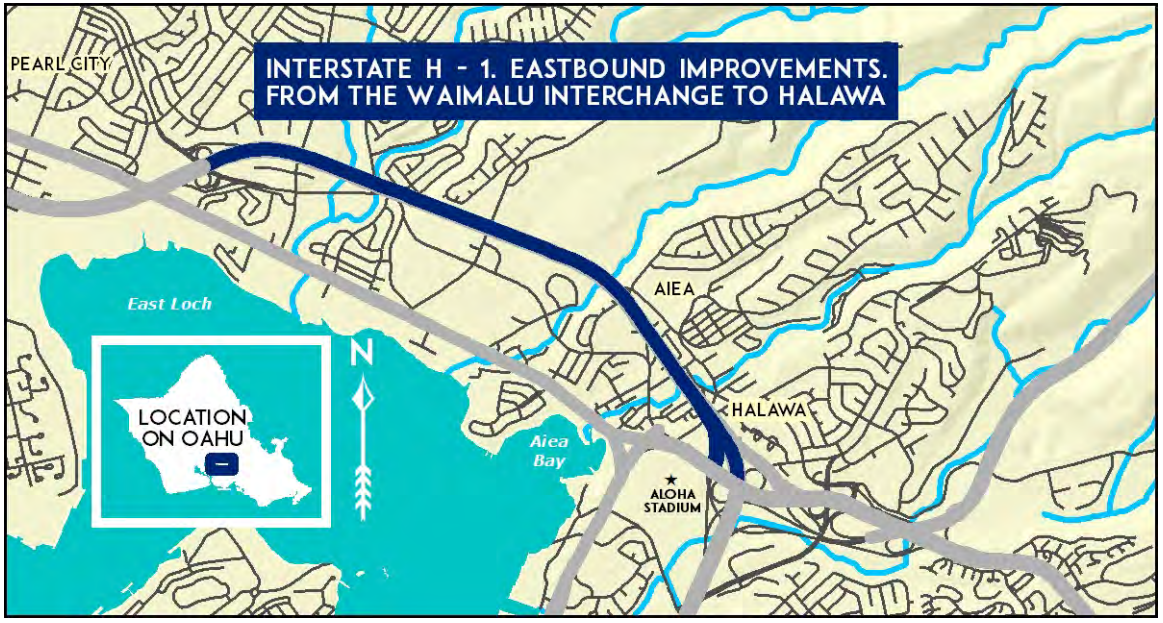
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 2																			
ADVCON	0	5,000	(5,000)	0	9,000	(9,000)	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	0	5,000	(5,000)	0	9,000	(9,000)	0	0	0	0	0	0	0	0	0	0	0	0	

OS67 Interstate Route H-1, Reconstruction and Repair, Eastbound, Waimalu Interchange to Halawa



Project Description:
Rehabilitate or reconstruct Portland concrete pavement. Widen to improve shoulders and travelway.

Mile Post/s:

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Pearl City, Aiea

Estimated Total Project Cost: $93,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

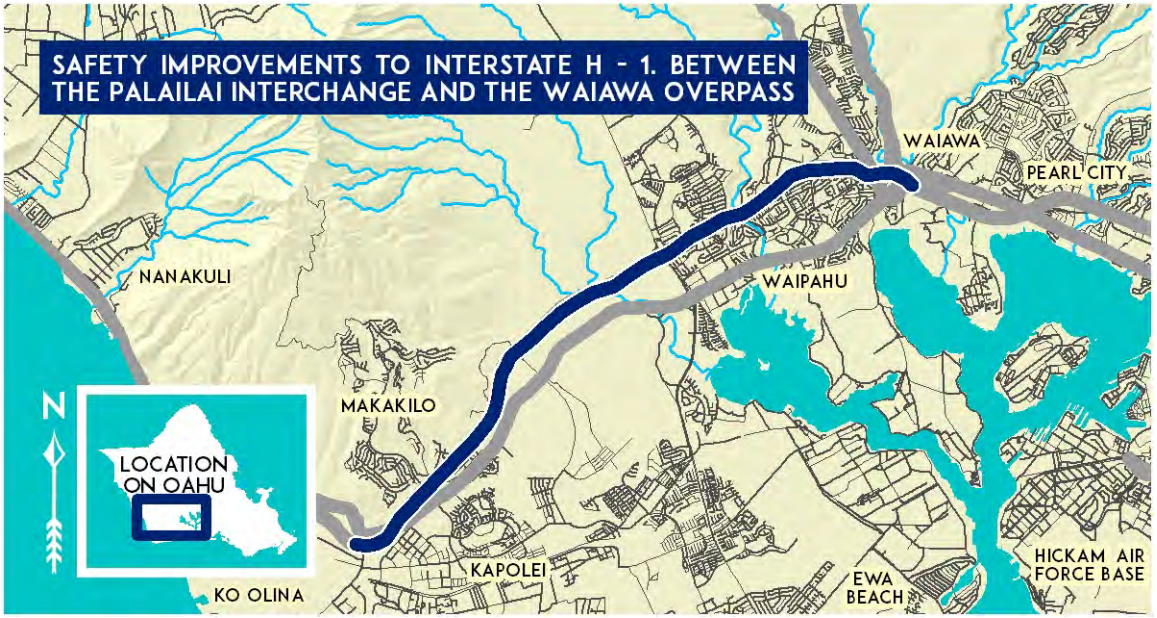
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ADVCON	0	16,000	(16,000)	0	17,000	(17,000)	0	12,000	(12,000)	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	0	16,000	(16,000)	0	17,000	(17,000)	0	12,000	(12,000)	0	0	0	0	0	0	0	0	0	

OS20 Interstate Route H-1 Safety Improvement, Beginning of H-1 (Palailai Interchange) to Waiawa Overpass



Project Description:
Scope includes, but is not limited to: Installation of milled rumble strips on shoulders; reconstruction of paved shoulders; pavement markings; and signing.

Mile Post/s: Queen Liliuokalani Freeway: MP 0.00 to MP 9.00

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Makakilo-Kapolei-Honokai Hale, Ewa, Waipahu

Estimated Total Project Cost: $9,500,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

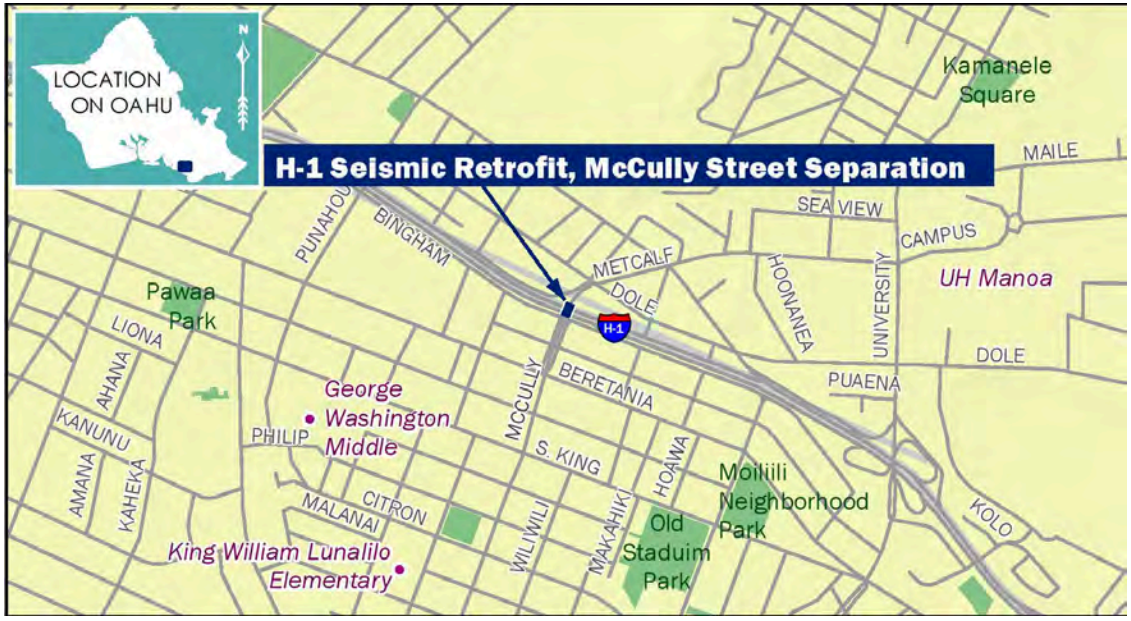
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ADVCON	0	3,000	(3,000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HSIP

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.)

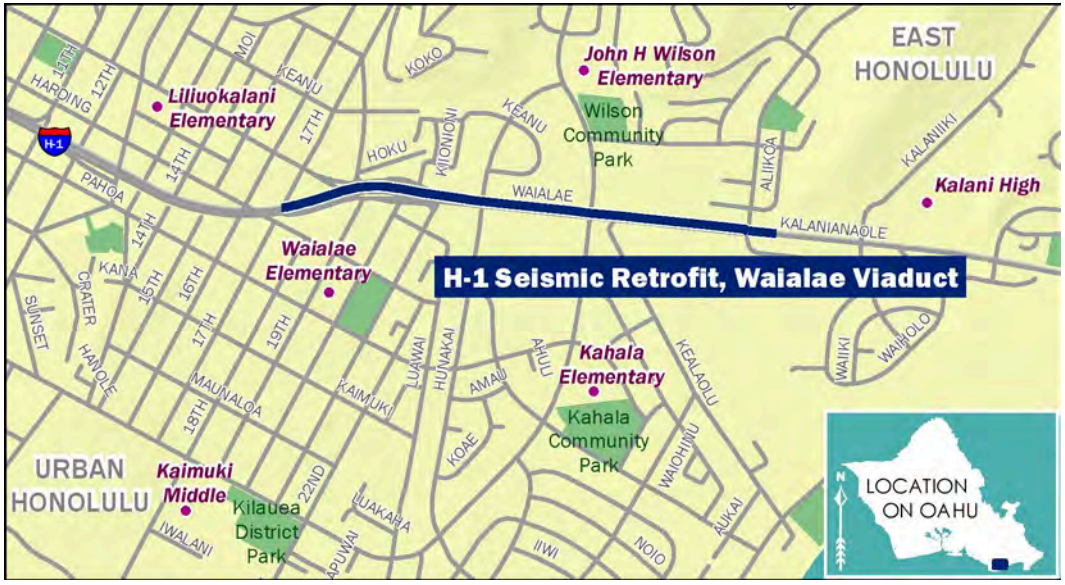
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

													FOR INFORMATION ONLY						
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
Phase	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)	Funding Category
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, Waialae 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): Waialae-Kahala, Kaimuki

Estimated Total Project Cost: $7,764,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

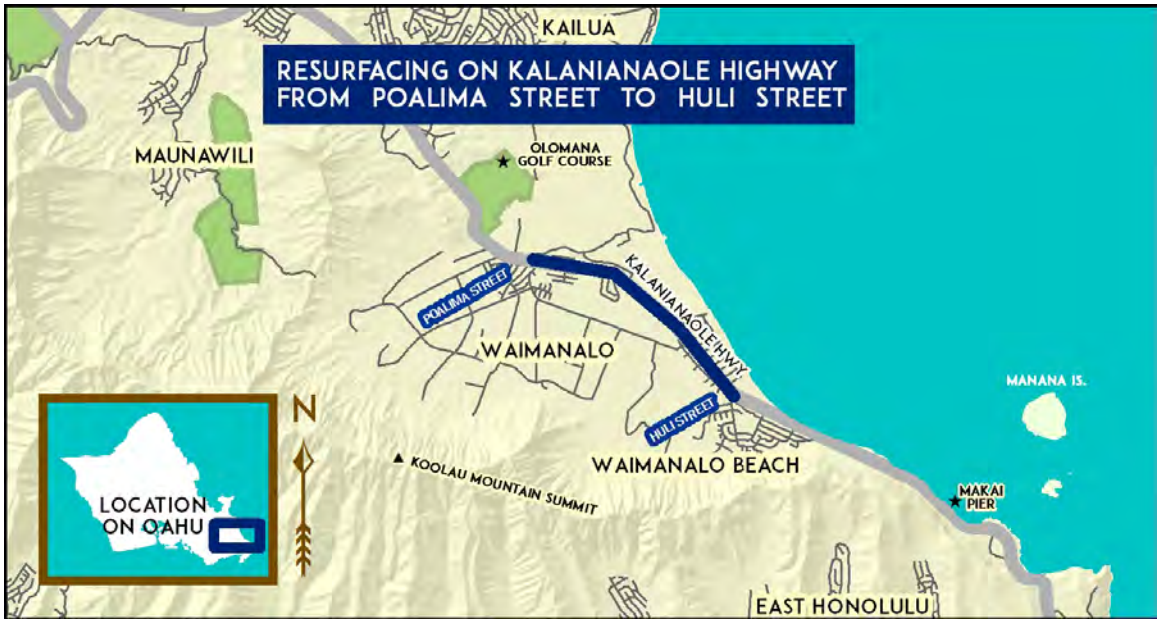
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
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)	

OS26 Kalanianaole Highway (Route 72) Resurfacing, Poalima Street to Huli Street



Project Description:
Roadway resurfacing of Kalanianaole Highway from Poalima Street to Huli Street.

Mile Post/s: MP 3.35 to MP 5.65

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): Waimanalo

Estimated Total Project Cost: $7,500,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	0	0	0	4,293	1,434	2,859	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
CON	0	0	0	2,750	2,200	550	0	0	0	0	0	0	0	0	0	0	0	0	EARMARK -HP
ADVCON	0	0	0	0	0	0	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	0	0	0	7,043	3,634	3,409	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	

OS28 Kamehameha Highway (Route 83), Bridge Replacement, Kaipapau Stream Bridge

Project Description:
Replace the existing bridge on Kamehameha Highway.

Mile Post/s: Kamehameha Highway: MP 20.78 to MP 20.85

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: $21,600,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

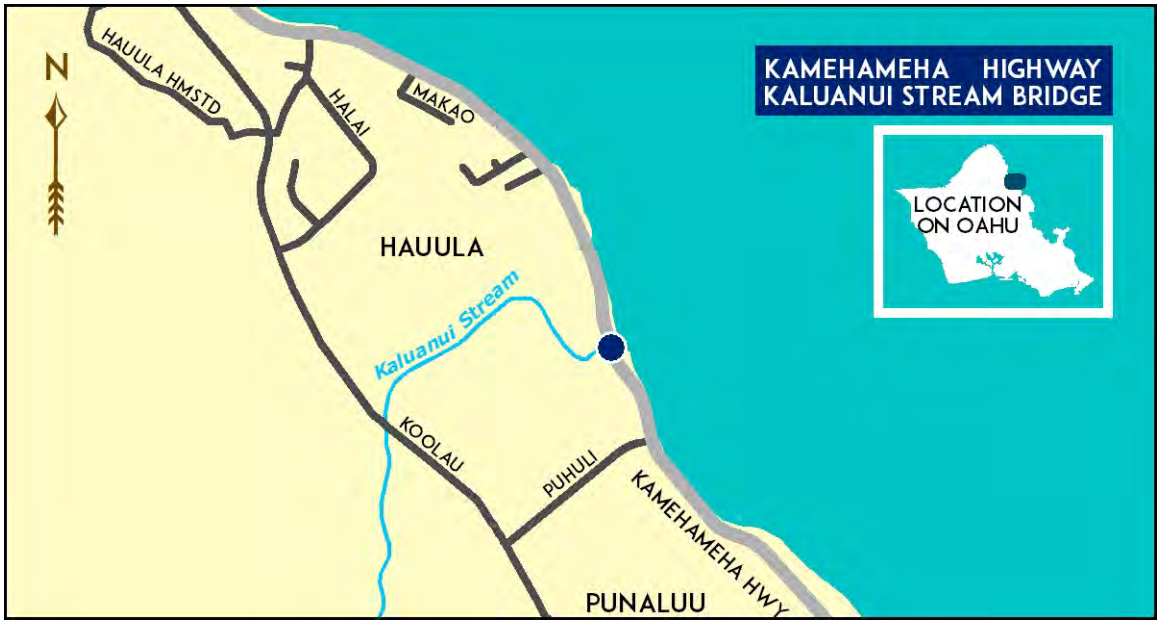
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	0	0	0	17,800	2,000	15,800	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	4,240	(4,240)	0	3,000	(3,000)	0	5,000	(5,000)	0	0	0	NHPP
TOTAL	0	0	0	17,800	2,000	15,800	0	4,240	(4,240)	0	3,000	(3,000)	0	5,000	(5,000)	0	0	0	

OS29 Kamehameha Highway (Route 83), Bridge Replacement, Kaluanui Stream Bridge



Project Description:
Replace the existing bridge on Kamehameha Highway.

Mile Post/s: Kamehameha Highway: MP 22.50 to 22.70

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: $11,000,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ROW	670	536	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
CON	9,200	360	8,840	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	2,000	(2,000)	0	5,000	(5,000)	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	9,870	896	8,974	0	2,000	(2,000)	0	5,000	(5,000)	0	0	0	0	0	0	0	0	0	

OS31 Kamehameha Highway (Route 83), Bridge Replacement, Laieloa Stream Bridge

Project Description:
Replace the existing concrete slab bridge on Kamehameha Highway in the vicinity of Laie.

Mile Post/s: Kamehameha Highway: MP 18.31

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: $11,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

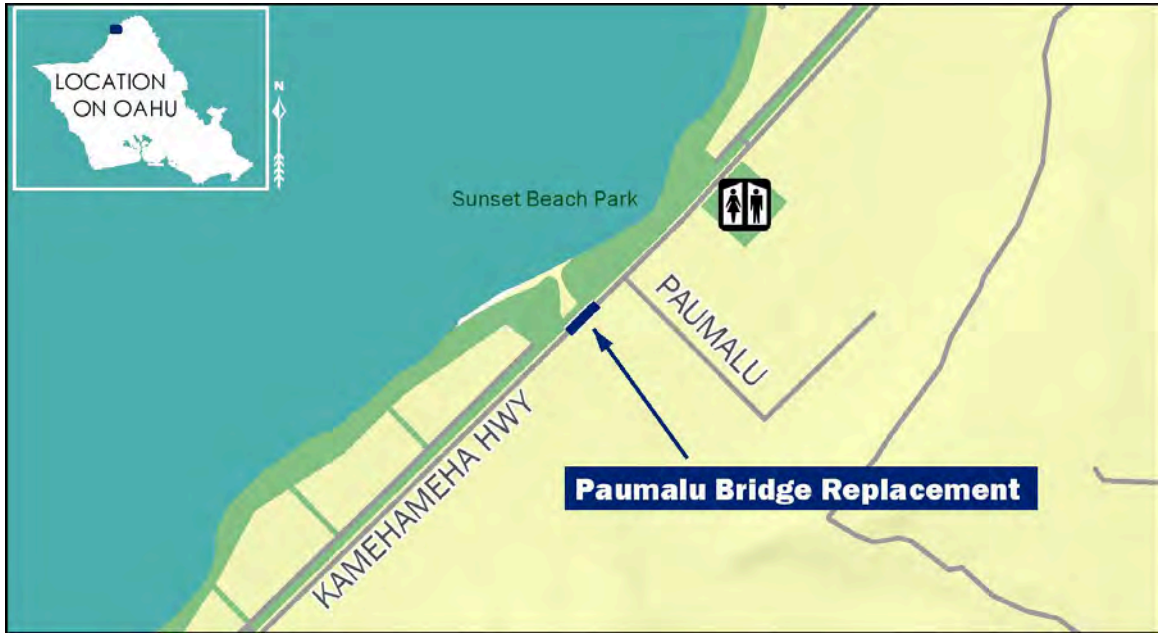
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ROW	210	168	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
CON	0	0	0	9,800	840	8,960	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	1,000	(1,000)	0	3,000	(3,000)	0	3,000	(3,000)	0	0	0	NHPP
TOTAL	210	168	42	9,800	840	8,960	0	1,000	(1,000)	0	3,000	(3,000)	0	3,000	(3,000)	0	0	0	

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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
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	

OS36 Kamehameha Highway (Route 83), Bridge Replacement, Waipilopilo Stream Bridge

Project Description:
Replace the existing concrete T-bridge on Kamehameha Highway in the vicinity of Hauula.

Mile Post/s: Kamehameha Highway: MP 21.12

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: $11,300,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ROW	1,030	824	206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
CON	0	0	0	0	0	0	9,700	760	8,940	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	0	0	0	5,000	(5,000)	0	2,000	(2,000)	0	0	0	NHPP
TOTAL	1,030	824	206	0	0	0	9,700	760	8,940	0	5,000	(5,000)	0	2,000	(2,000)	0	0	0	

OS61 Kamehameha Highway (Route 83), Realignment, Vicinity of Kawailoa Beach

Project Description:
Realign a portion of Kamehameha Highway on the North Shore. The project proposes to construct a realignment of Kamehameha Highway, from Haleiwa to the vicinity of Waimea Bay to address safety issues that revolve around use of the beach.

Mile Post/s:

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: $39,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

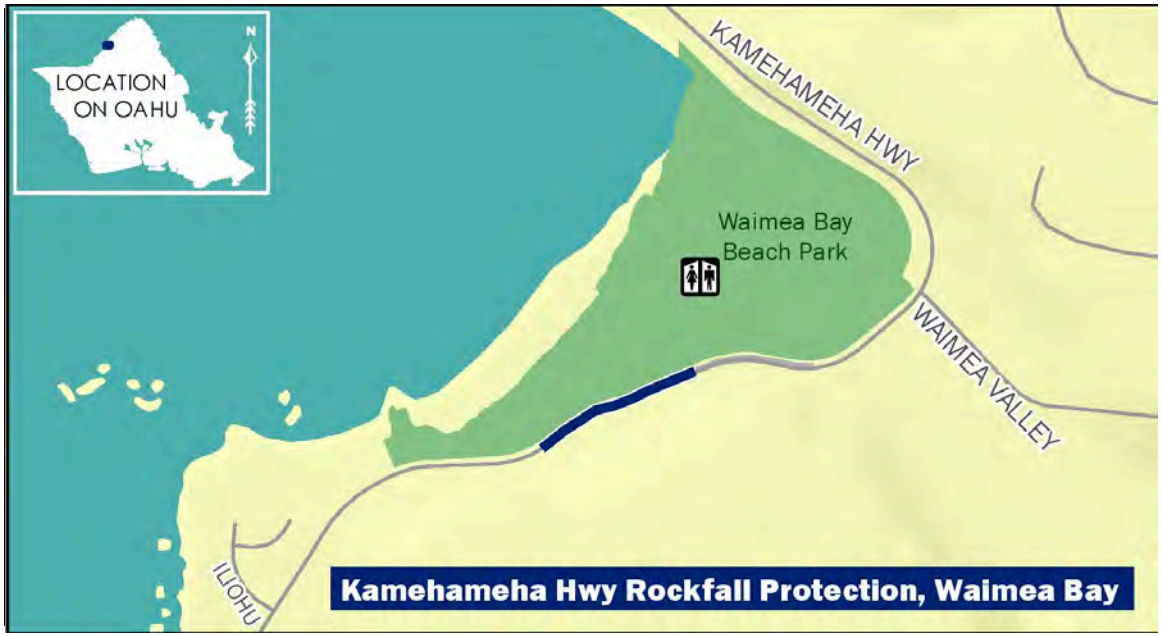
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
PE2	0	0	0	3,000	2,400	600	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
PREROW	0	0	0	0	0	0	55	44	11	0	0	0	0	0	0	0	0	0	NHPP
ROW	0	0	0	0	0	0	0	0	0	0	0	0	1,020	816	204	0	0	0	NHPP
TOTAL	0	0	0	3,000	2,400	600	55	44	11	0	0	0	1,020	816	204	0	0	0	

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.)

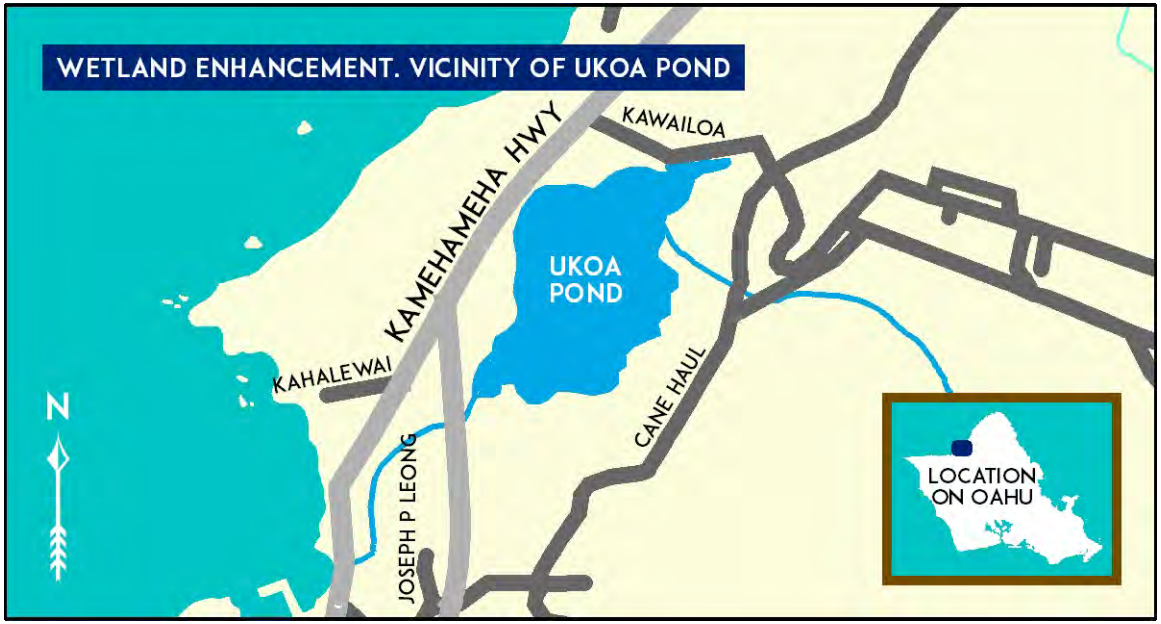
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Waimea Bay																			
PE2	0	0	0	900	720	180	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	NHPP
ROW	0	0	0	0	0	0	0	0	0	500	400	100	0	0	0	0	0	0	NHPP
Haleiwa																			
CON	0	0	0	0	0	0	0	0	0	10,000	2,000	8,000	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	NHPP
Sunset Beach																			
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	6,400	1,600	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	

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



Project Description:
Enhance wetlands along Kamehameha Highway (Route 83) near Ukoa Pond as a mitigation for previous impacts and wetland banking for future use. This is a wetland mitigation project on the North Shore that is related to the construction of the Haleiwa Bypass Road.

Mile Post/s: Joseph P. Leong Highway: MP 1.67 to 1.79

Complete Streets (CS):

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

Project Website: None

Neighborhood(s): North Shore

Estimated Total Project Cost: $7,700,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

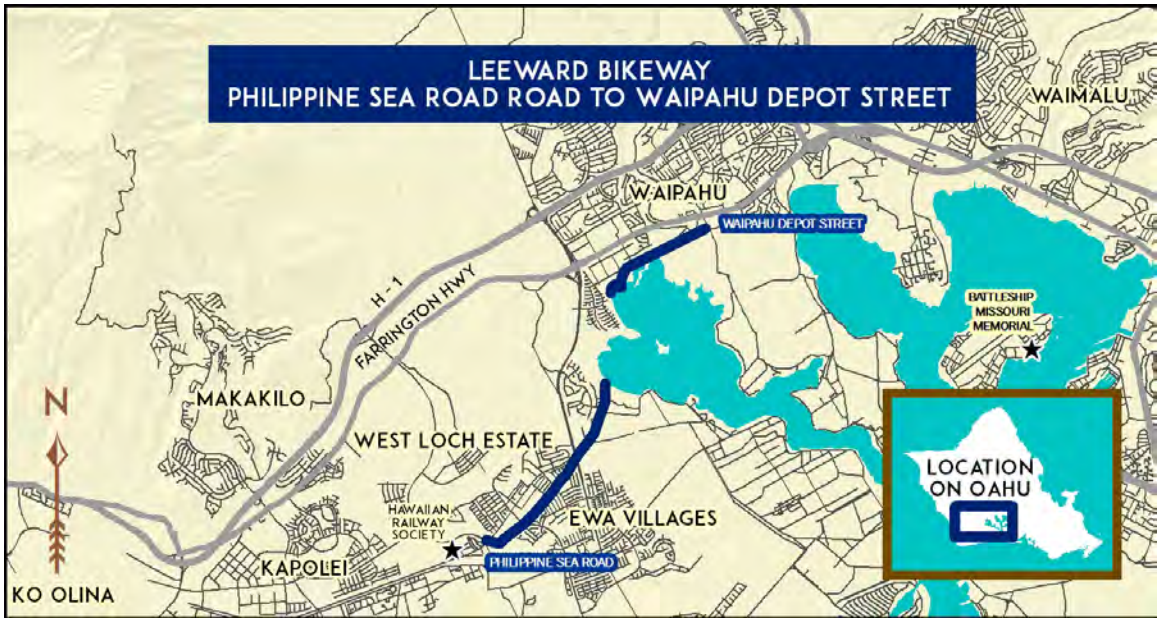
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	6,600	280	6,320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	1,000	(1,000)	0	4,000	(4,000)	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	6,600	280	6,320	0	1,000	(1,000)	0	4,000	(4,000)	0	0	0	0	0	0	0	0	0	

OS43 Leeward Bikeway, Philippine Sea Road to Waipahu Depot Street



Project Description:
Improve/build bikeway/bike path from Philippine Sea Road to Waipahu Depot Street.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Bicycling facilities.

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Ewa, Makakilo-Kapolei-Honokai Hale, Waipahu

Estimated Total Project Cost: $11,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

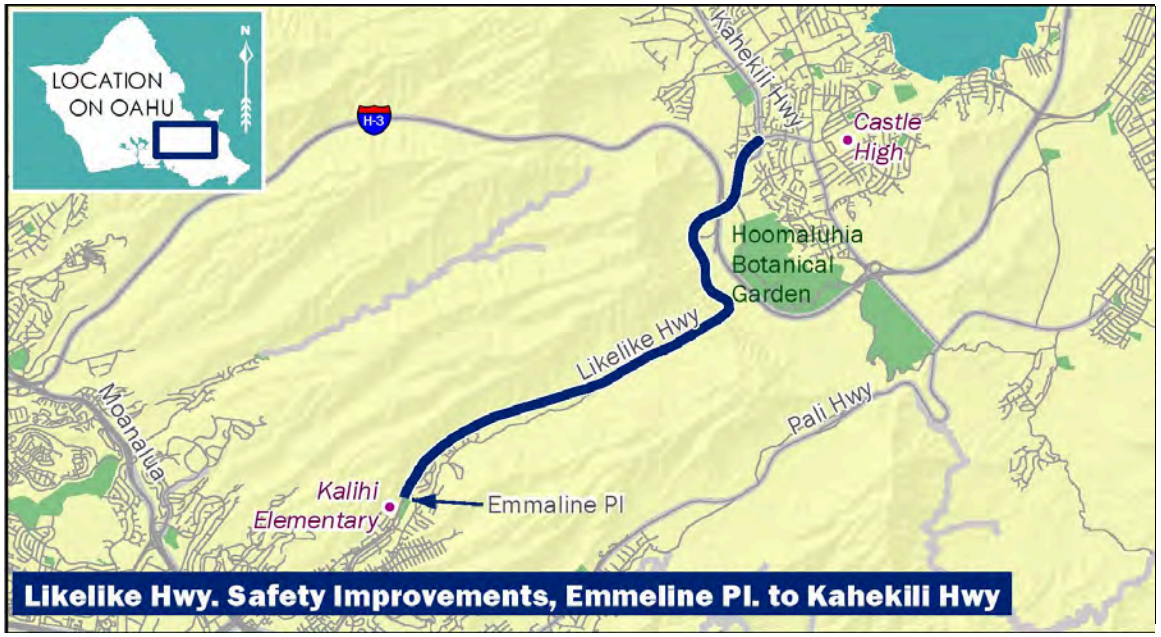
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	9,454	175	9,279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ENHANCE
ADVCON	0	0	0	0	2,388	(2,388)	0	5,000	(5,000)	0	0	0	0	0	0	0	0	0	ENHANCE
TOTAL	9,454	175	9,279	0	2,388	(2,388)	0	5,000	(5,000)	0	0	0	0	0	0	0	0	0	

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.)

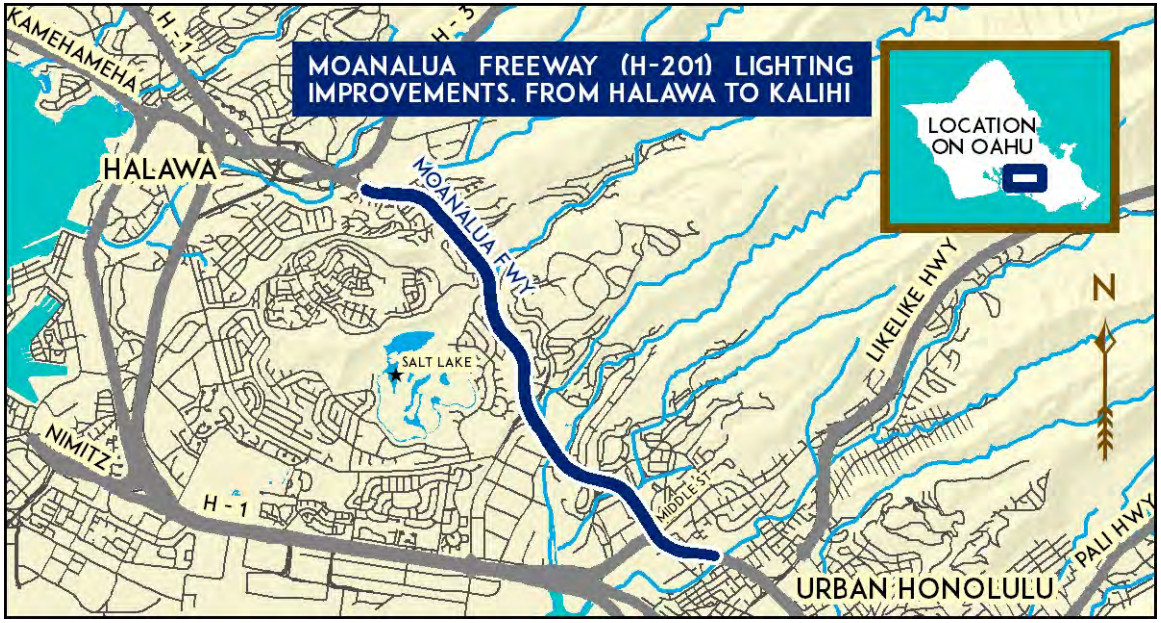
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
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	

OS45 Moanalua Freeway (route H-201), Highway Lighting Improvements, Halawa Heights Off-Ramp to Middle Street Overpass



Project Description:
Upgrade/replace existing freeway lighting on Moanalua Freeway, from the Halawa Heights westbound off-ramp (milepost 1.12) to the Moanalua/H-1 Freeway merge at Middle Street (milepost 4.09).

Mile Post/s: Moanalua Freeway: MP 1.12 to MP 4.09

Complete Streets (CS):

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

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $20,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

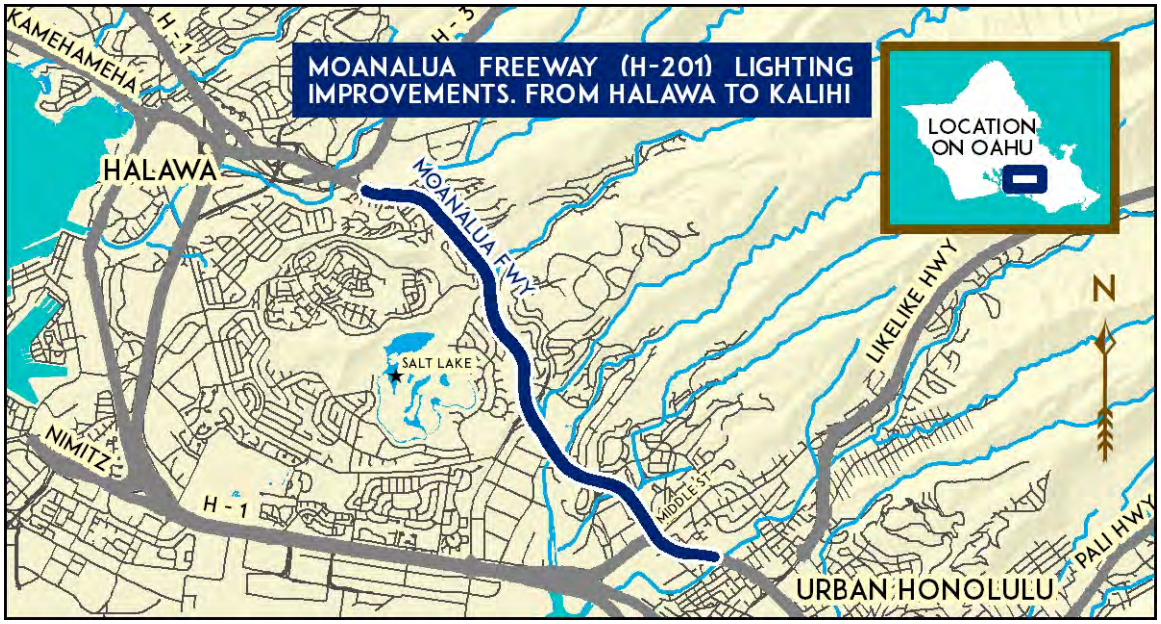
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ADVCON	0	11,000	(11,000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP

OS44 Moanalua Freeway (Route 78) and Interstate Route H-2, Guardrail and Shoulder Improvements, Phase 2



Project Description:
Install and/or upgrade the existing guardrails. Reconstruct and pave road shoulders.

Mile Post/s: Moanalua Freeway: MP 0.00 to MP 0.74 and H-2: MP 0.00 to MP 8.33

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $20,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

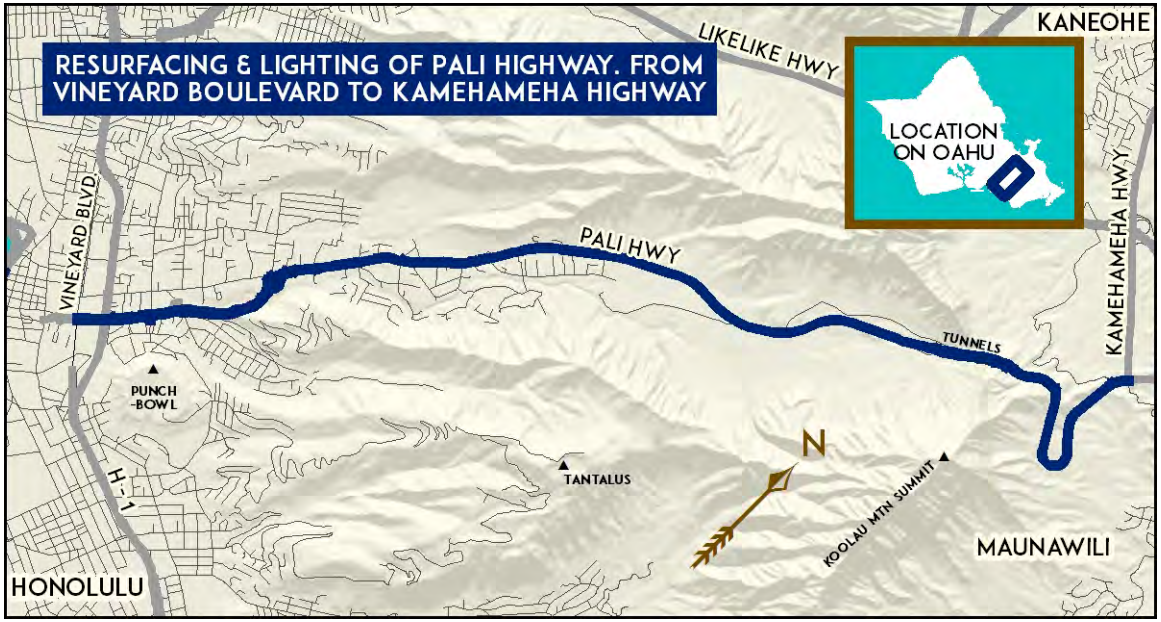
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 1																			
ADVCON	0	3,000	(3,000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
Phase 2																			
CON	0	0	0	10,000	100	9,900	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	0	0	0	4,000	(4,000)	0	3,900	(3,900)	0	0	0	0	0	0	NHPP
TOTAL	0	3,000	(3,000)	10,000	100	9,900	0	4,000	(4,000)	0	3,900	(3,900)	0	0	0	0	0	0	

OS62 Pali Highway (Route 61) Resurfacing & Lighting Improvements, Vineyard Boulevard (Route 98) to Kamehameha Highway (Route 83)



Project Description:
Scope of work includes but is not limited to cold planing, resurfacing, reconstruction of weakened pavement, installation of new highway lighting, construction of concrete median barriers, replacement of guardrails in-kind and end treatments, installation of new guardrails, installing bridge rails, and installation of signs and pavement markings.

Mile Post/s:

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): Nuuanu-Punchbowl

Estimated Total Project Cost: $96,000,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 1 - Lighting Vineyard Boulevard to Kamehameha Highway & Resurfacing Waokanaka Streeet to Kamehameha Highway																			
ADVCON	0	11,000	(11,000)	0	10,000	(10,000)	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
Phase 2 - Resurfacing, Vineyard Boulevard to Waokanaka Street																			
CON	18,000	1,400	16,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP
ADVCON	0	0	0	0	6,000	(6,000)	0	7,000	(7,000)	0	0	0	0	0	0	0	0	0	NHPP
TOTAL	18,000	12,400	5,600	0	16,000	(16,000)	0	7,000	(7,000)	0	0	0	0	0	0	0	0	0	

OS49 Recreational Trails Program - Oahu

Project Description:
A Federal-aid assistance program to help the State provide and maintain recreational trails for both motorized and non-motorized recreational use.

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: $2,154,000
(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:
Department of Land and Natural Resources

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	359	287	72	359	287	72	359	287	72	359	287	72	359	287	72	359	287	72	NATL REC TRAILS

OS52 Sand Island Access Road (Route 64), Truck Weigh Station, Kapalama Container Terminal

Project Description:
Design, construct, and operate a truck weigh station to perform truck inspections and driver credential checks at the egress of the container terminal on Sand Island Access Road. The work includes auxilary lanes to accommodate truck vehicles, traffic controls, truck weighing infrastructure and computer hardware/software, operator kiosk/office.

Mile Post/s:

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): Kalihi-Palama

Estimated Total Project Cost: $9,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

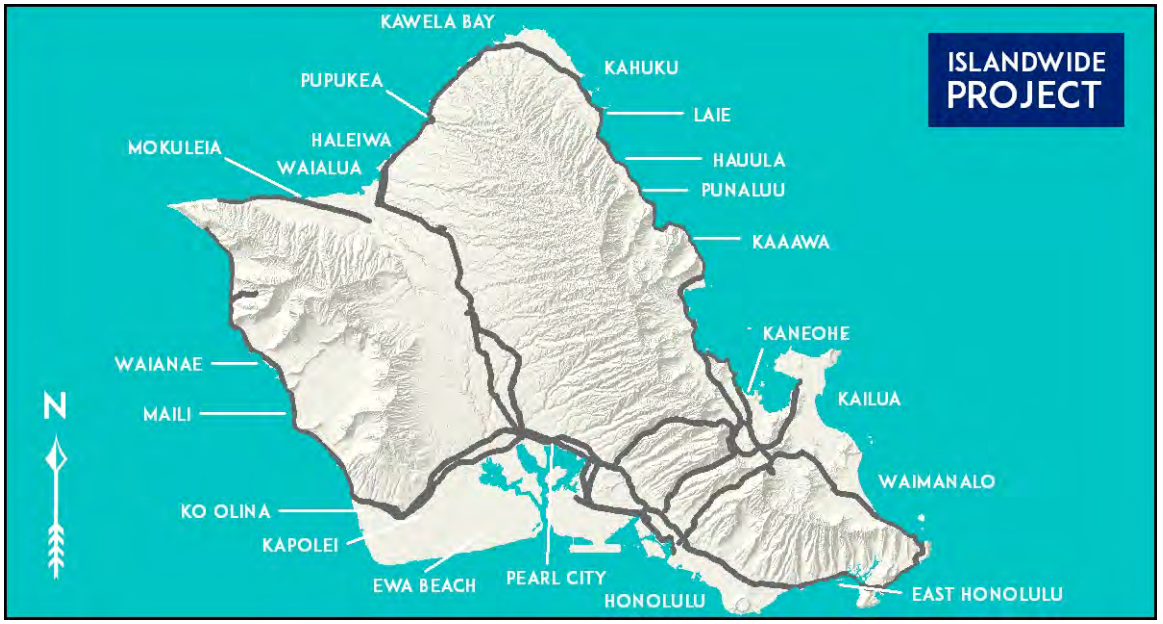
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	5,200	4,160	1,040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHPP

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.)

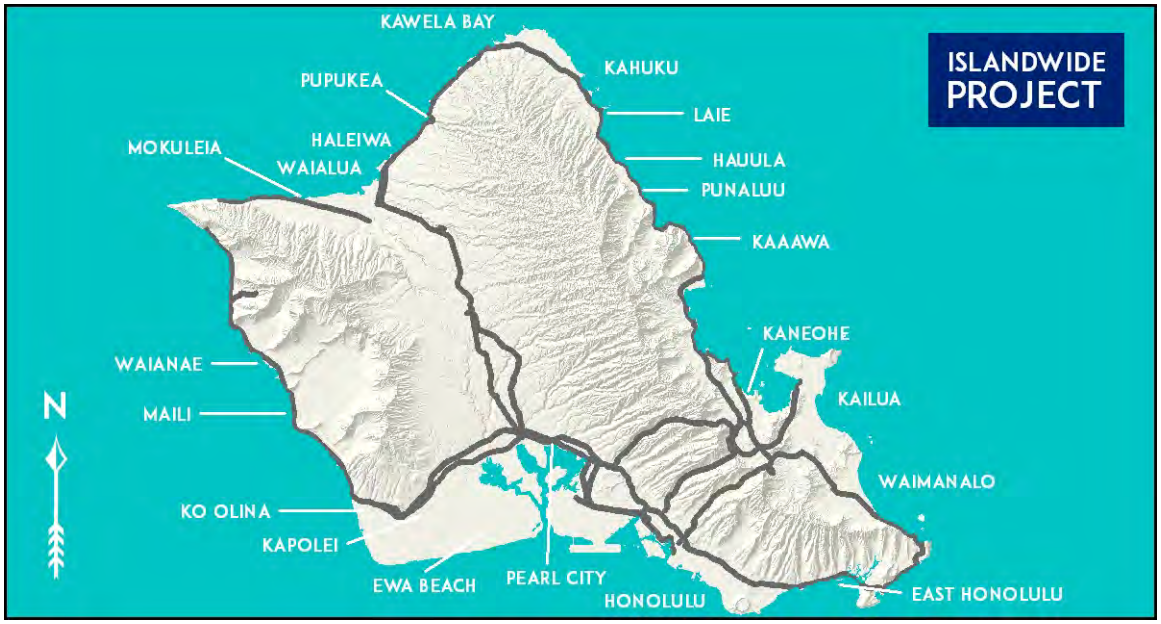
Project Sponsor: State of Hawaii (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Tier 1 - (Short-Term) Locations																			
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
Tier 2 - (Mid/Long-Term) Locations																			
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	

OS63 Traffic Counting Stations, Various Locations



Project Description:
Construction of traffic counting stations for traffic data gathering and planning purposes. There is a separate phase shown for the rest of the islands in Statewide section of the STIP. This is a part of phase 2 of the Statewide project. The project will collect required Highway Performance Monitoring System (HPMS) data.

Mile Post/s:

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: Not applicable

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $4,500,000
(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

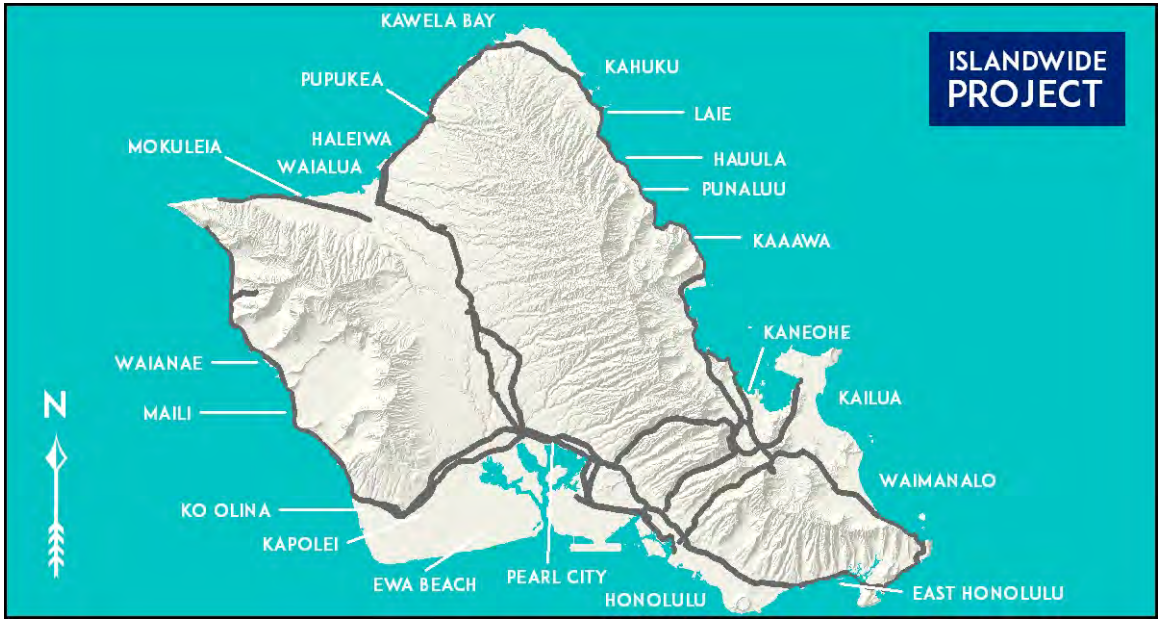
All values are in thousands of U.S. dollars (x1000)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
CON	0	0	0	2,575	60	2,515	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
ADVCON	0	0	0	0	0	0	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	STP FLEX
TOTAL	0	0	0	2,575	60	2,515	0	2,000	(2,000)	0	0	0	0	0	0	0	0	0	

6.2.1 Oahu State (OS) Projects

6.2.1.2 FTA-Funded Oahu State Projects

OS50 Transportation Assistance for Elderly and Disabled



Project Description:
Funds from the program will be utilized for the purchase of buses for paratransit services for seniors and individuals with disabilities.

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: $3,519,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

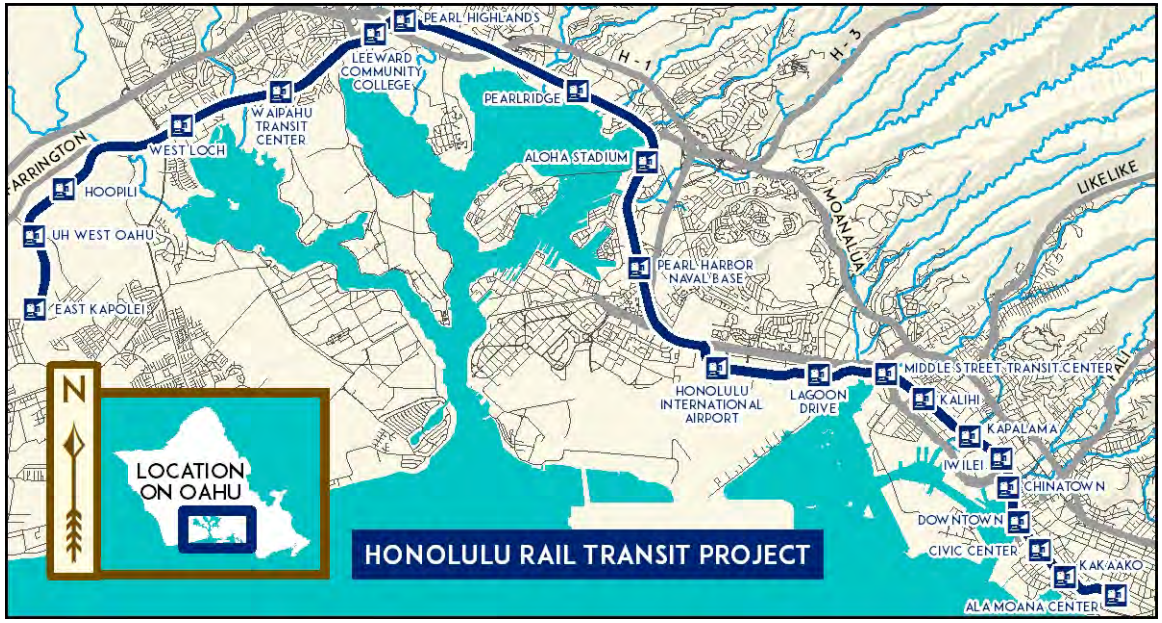
Project Sponsor: State of Hawaii (FTA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
EQP	544	435	109	560	448	112	576	461	115	594	475	119	613	490	123	632	505	127	§5310

OS68 State Safety Oversight Program



Project Description:
Provide operational resources for the State Safety Oversight Program administered by the HDOT Rail Transit Safety Office and will Implement 49 CFR Part 674 State Safety Oversight Final Rule.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Islandwide

Estimated Total Project Cost: $1,874,000
(May include project costs outside of the 4-year TIP and 2 information years.)

al

Project Sponsor: State of Hawaii (FTA Funded)

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

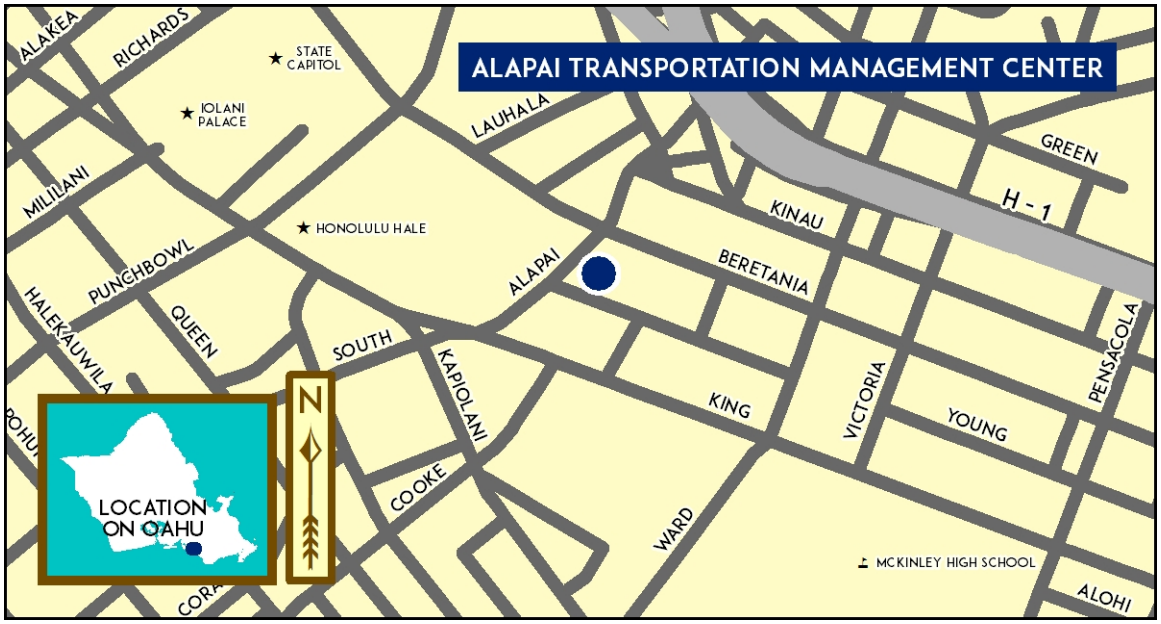
All values are in thousands of U.S. dollars (x1000)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
OPR	290	232	58	299	239	60	307	246	61	316	253	63	326	261	65	336	269	67	§5329

6.2.2 Oahu City (OC) Projects

6.2.2.1 FHWA-Funded Oahu City Projects

OC1 Alapai Transportation Management Center



Project Description:
The transportation management center will be a joint communication center to be built next to the Alapai Transit Center. The center will facilitate active traffic management through co-location and information sharing by City and State traffic management operations and the City's emergency response agencies.

Mile Post/s: Not applicable

Complete Streets (CS):

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

Project Website: None

Neighborhood(s): Ala Moana-Kakaako

Estimated Total Project Cost: $97,813,000
(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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
DES	500	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LOCAL
INSP	1,500	0	1,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LOCAL
EQP	250	200	50	250	200	50	0	0	0	0	0	0	0	0	0	375	300	75	STP FLEX
OPR	500	400	100	500	400	100	463	370	93	475	380	95	488	390	98	500	400	100	STP FLEX
ADVCON	0	3,000	(3,000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
TOTAL	2,750	3,600	(850)	750	600	150	463	370	93	475	380	95	488	390	98	875	700	175	

OC2 Bikeway Improvements Program

Project Description:
This is an ongoing islandwide program for the implementation of the Oahu Bicycle Master Plan improvements, the development of new projects, and the upgrade of the existing bicycle projects.

Mile Post/s:

Complete Streets (CS):

Project will implement: Bikeway improvements; new bikeway projects; and bikeway upgrades.

Existing Feature/s: See Oahu Bicycle Master Plan

Project Website:
www.honolulu.gov/bicycle/bicyclefacilities/oahu-bike-plan.html

Neighborhood(s): Islandwide

Estimated Total Project Cost: $1,027,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

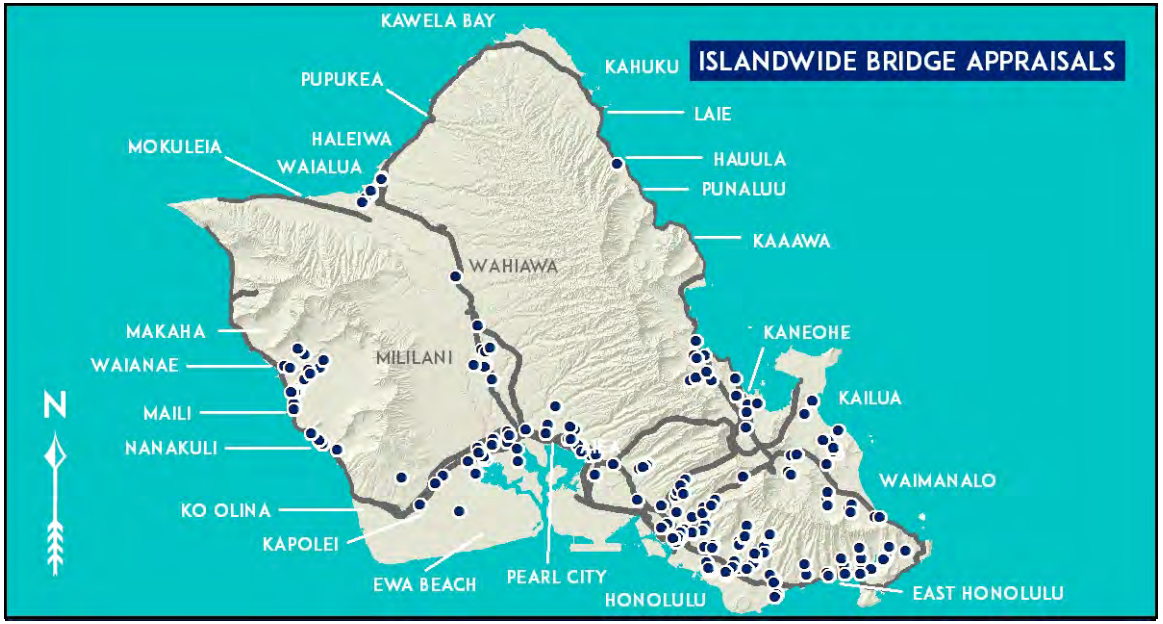
Project Sponsor: City and County of Honolulu (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Kailua-Lanikai Bike Path																			
ROW	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE1	300	240	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	125	100	25	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
Waipahu Depot Shared Use Path																			
ROW	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE1	0	0	0	200	160	40	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	0	0	0	100	80	20	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	1,500	1,200	300	0	0	0	STP FLEX
TBD - DES 2021																			
PE1	0	0	0	0	0	0	300	240	60	0	0	0	0	0	0	0	0	0	STP FLEX
TOTAL	301	240	61	326	260	66	300	240	60	100	80	20	1,500	1,200	300	0	0	0	

OC3 Bridge Inspection, Inventory, and Appraisal



Project Description:
Inventory, inspect, and appraise City bridges, including underwater inspection and scour survey.

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: $4,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

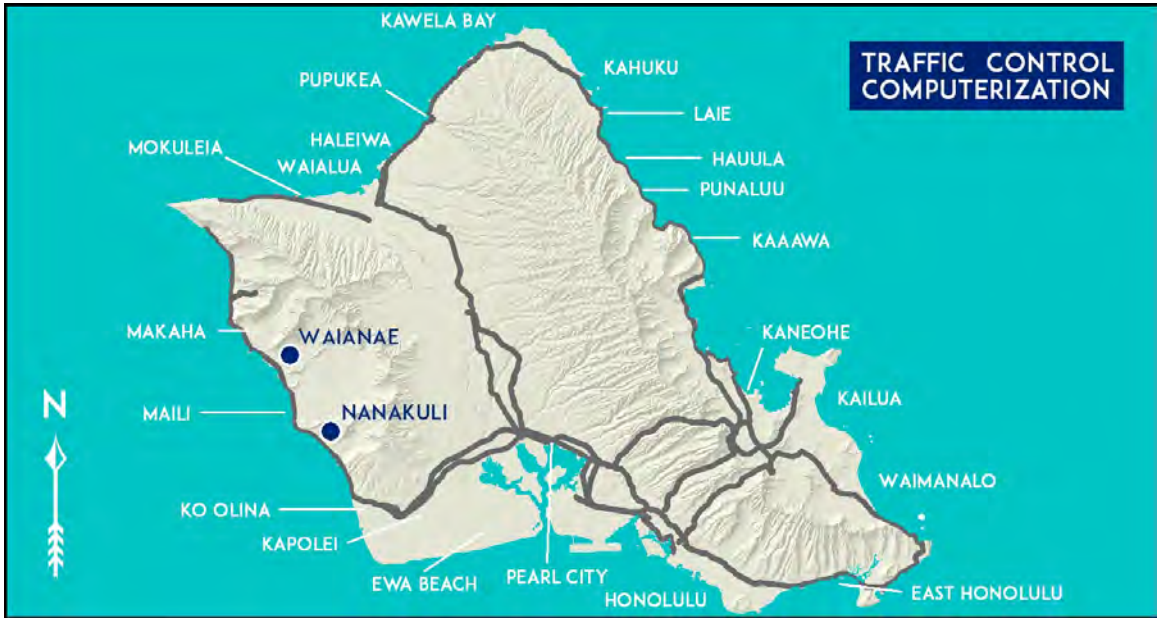
Project Sponsor: City and County of Honolulu (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
City Department of Design and Construction

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

													FOR INFORMATION ONLY						
	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FFY 2023			FFY 2024			
Phase	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)	Funding Category
DES	1,000	800	200	1,000	800	200	1,000	800	200	1,000	800	200	1,000	800	200	1,000	800	200	OS BRIDGE

OC4 Computerized Traffic Control System



Project Description:
Upgrade and expand fiber optic lines, closed-circuit television (CCTV) cameras, data collection, and signal control in the urban and rural areas for connectivity to the Traffic Control Center.

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: $13,020,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

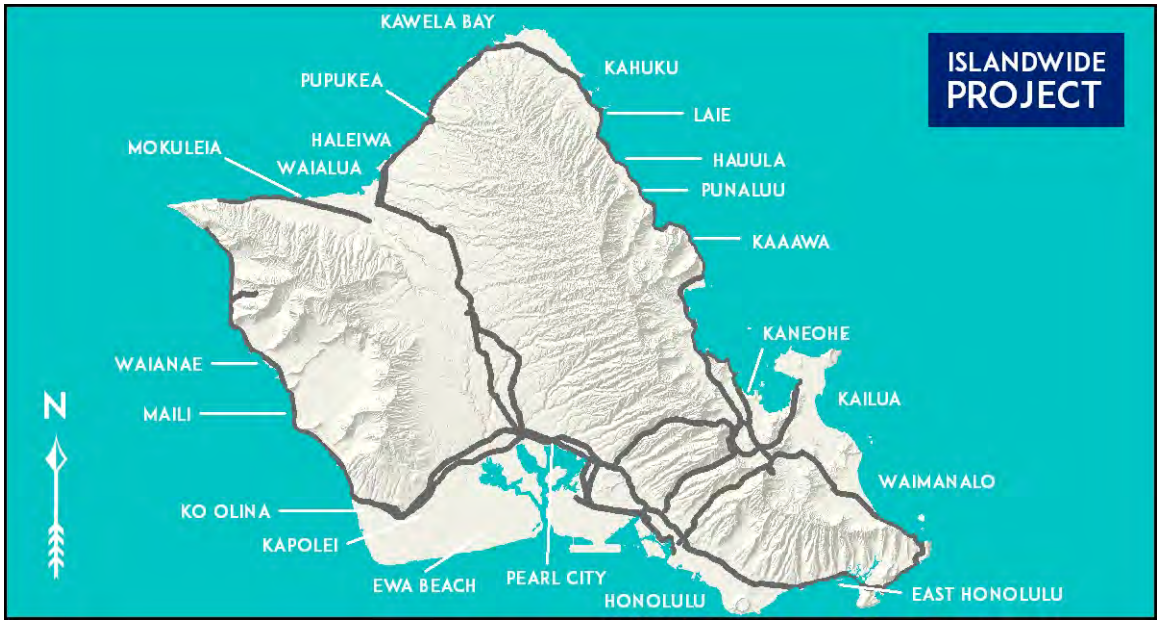
Project Sponsor: City and County of Honolulu (FHWA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 15 - Nanakuli																			
PE2	0	0	0	250	200	50	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	3,800	3,000	800	0	0	0	0	0	0	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	0	0	0	STP FLEX
Phase 16 - Waianae																			
PE1	0	0	0	250	200	50	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	315	250	65	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	3,800	3,000	800	0	0	0	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	STP FLEX
Phase 17 - TBD																			
PE1	0	0	0	0	0	0	315	250	65	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	3,800	3,000	800	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	STP FLEX
TOTAL	0	0	0	500	400	100	4,530	3,500	1,030	3,900	3,000	900	3,900	3,000	900	0	0	0	

OC8 Traffic Improvements at Various Locations



Project Description:
Provide traffic congestion relief and improve traffic safety at various locations, including but not limited to Kalaheo Avenue/Kailua Road, Mahoe and Waiphu Streets, Kailua Road/Wanaao Road intersection improvements, Kalakaua shared use crossing, and Manager's Drive/ Hiapo Street intersection improvements.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Mahoe Street & Waipahu Street, Manager's Drive & Hiapo Street, Kailua Road & Waanao Road: Roundabouts, accessible curbs, and sidewalk improvements. Kalakaua Avenue: Bicycle lanes of 5 feet or greater width, shared-use paths of 10 feet or greater width, accessible curb ramps, and pedestrian underpasses or overpasses.

Existing Feature/s: Mahoe/Waipahu, Manager's Drive/Hiapo, Kaillua/Wanaao: new or wider sidewalks, planting strips, raised medians or refuge islands, roundabouts or mini-circles, and traffic calming features. Kalakaua Avenue: Shared-use paths of 10 feet or greater width, curb extension, new or wider sidewalks, pedestrian signals, such as audible or vibrotactile indicators, planting strips, raised medians or refuge islands and traffic calming features.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $9,161,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

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

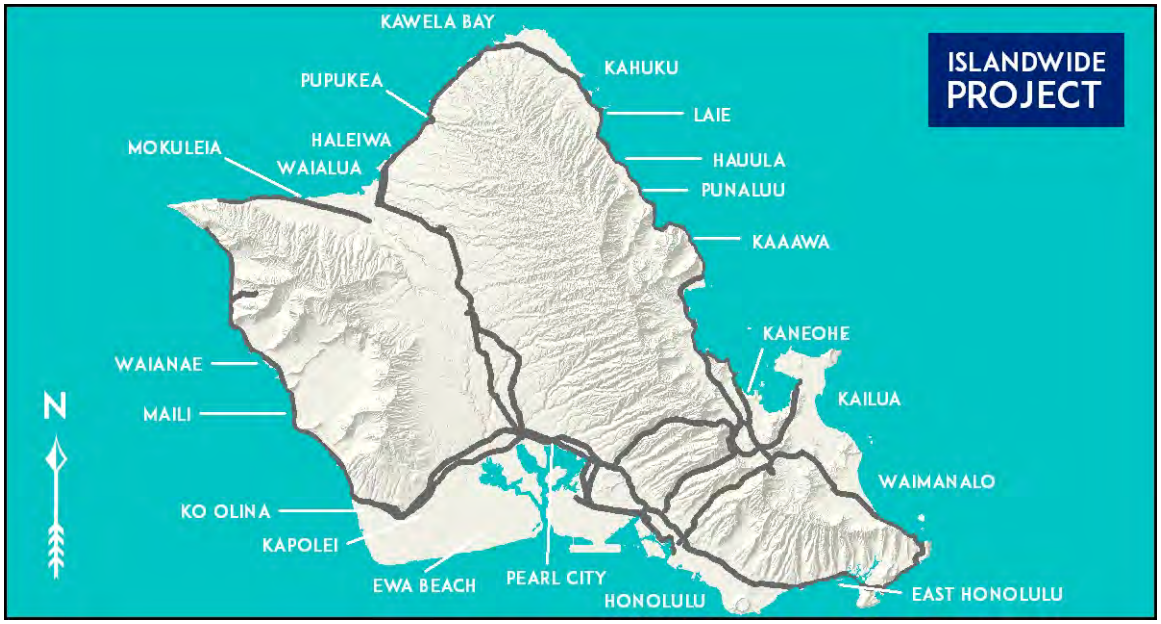
Agency Responsible for Carrying Out Project/Phase:
City Department of Transportation Services

OC8 Traffic Improvements at Various Locations

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Kalaheo Avenue/Kailua Road																			
ROW	106	85	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	1,590	1,272	318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
INSP	265	212	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
Mahoe and Waipahu Streets																			
CON	0	0	0	0	0	0	2,500	2,000	500	0	0	0	0	0	0	0	0	0	STP FLEX
Kailua Road/Wanaao Road Intersection Improvements																			
PE1	300	240	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	125	100	25	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	1,250	1,000	250	0	0	0	0	0	0	STP FLEX
Kalakaua Shared Use Crossing																			
PE1	200	160	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	125	100	25	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	1,250	1,000	250	0	0	0	0	0	0	STP FLEX
Manager's Drive/Hiapo Street Intersection Improvements																			
PE1	0	0	0	400	320	80	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	125	100	25	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	2,500	2,000	500	0	0	0	STP FLEX
TBD - DES 2021																			
PE1	0	0	0	0	0	0	400	320	80	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,250	1,000	250	STP FLEX
TOTAL	2,461	1,969	492	650	520	130	3,025	2,420	605	2,500	2,000	500	2,500	2,000	500	1,250	1,000	250	

OC10 Traffic Signals at Various Locations



Project Description:
Install and upgrade traffic signals islandwide including ADA improvements, signs and markings, and interties.

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: $21,939,000
(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

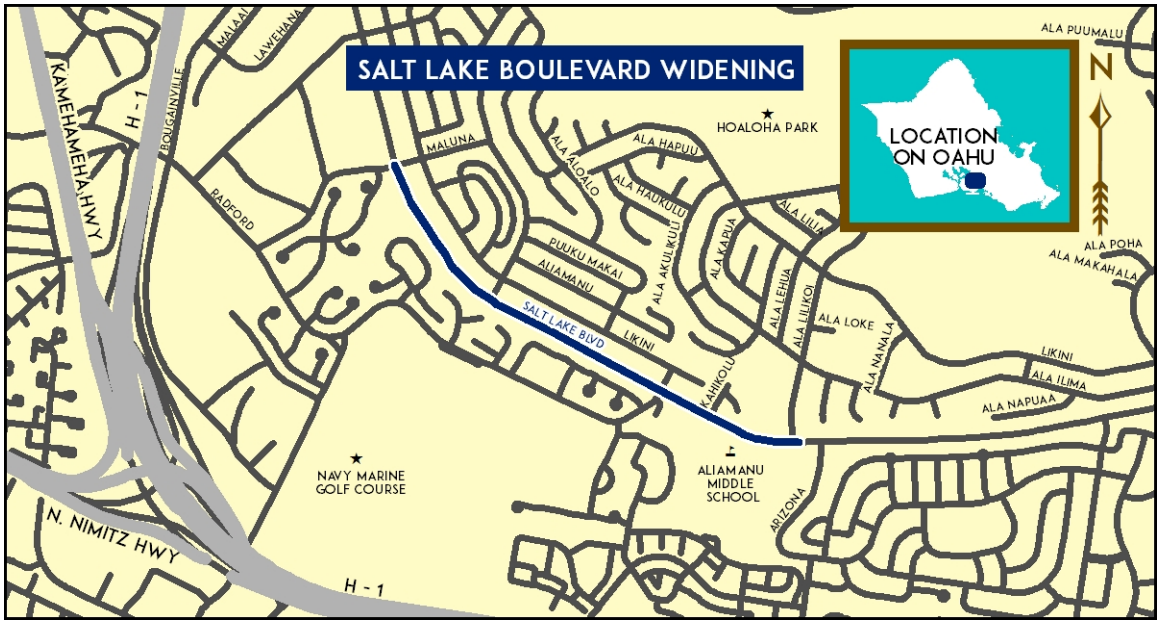
All values are in thousands of U.S. dollars (x1000)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 17 - Kuulei Rd/Aulike St, Kamehameha Hwy/Haiku Rd, King St/Church Ln, Ahua St/Kilihau St, Kuala St/Acacia Rd, King St/Pensicola St, Kamehameha Hwy/Pahia Rd, King St/Ward Ave, Atkinson Dr/Ma																			
CON	3,910	3,114	796	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
EQP	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
Phase 18 - Renton Rd/Pahika St, Kapiolani at Pumehana St (Rapid Flashing Beacons), School St/Houghtailing St, Kapiolani Bvld/Atkinson Dr, Kapiolani Bvld/Kalakaua Ave, Moanalua Rd/Hoomalu St																			
CON	0	0	0	3,750	3,000	750	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
EQP	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
Phase 19 - Waialae Avenue at 16th Avenue, Moanalua Road at Ualo Street																			
PE2	0	0	0	250	200	50	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	4,375	3,500	875	0	0	0	0	0	0	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	STP FLEX
Phase 20 - King St/Punahou St, Makuahine/Hala Dr, Hawaii Kai Dr/Kalalea St, Kamehameha Hwy/Waikalua Rd, Ward Ave/Lunalilo, Kapahulu Interconnect																			
PE1	0	0	0	250	200	50	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	315	250	65	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	3,750	3,000	750	0	0	0	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	STP FLEX
Phase 21 - Meheula Pkwy/Ainamakua Drive (Audio Ped), Kapiolani Blvd/Ward Ave, Kapiolani Blvd/McCully St																			
PE1	0	0	0	319	255	64	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	250	200	50	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	3,750	3,000	750	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	STP FLEX
Phase 22 - TBD																			
PE1	0	0	0	0	0	0	315	250	65	0	0	0	0	0	0	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	3,750	3,000	750	0	0	0	STP FLEX
EQP	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	STP FLEX

OC10 Traffic Signals at Various Locations

Phase 23 - TBD																			
PE2	0	0	0	0	0	0	0	0	0	0	0	0	425	350	75	0	0	0	STP FLEX
CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,750	3,000	750	STP FLEX
EQP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	STP FLEX
Phase 24 - TBD																			
PE1	0	0	0	0	0	0	0	0	0	0	0	0	315	250	65	0	0	0	STP FLEX
PE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	375	300	75	STP FLEX
Phase 25 - TBD																			
PE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	315	250	65	STP FLEX
TOTAL	3,914	3,114	800	4,570	3,655	915	5,259	4,200	1,059	3,751	3,000	751	8,242	6,600	1,642	4,441	3,550	891	

OC23 Salt Lake Boulevard Widening, Phase 3



Project Description:
To widen the Salt Lake Boulevard to a multi-lane roadway within the existing 100' right-of-way between Maluna and Ala Lilikoi Streets.

Mile Post/s:

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): Aliamanu-Salt Lake-Foster Village

Estimated Total Project Cost: $88,080,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

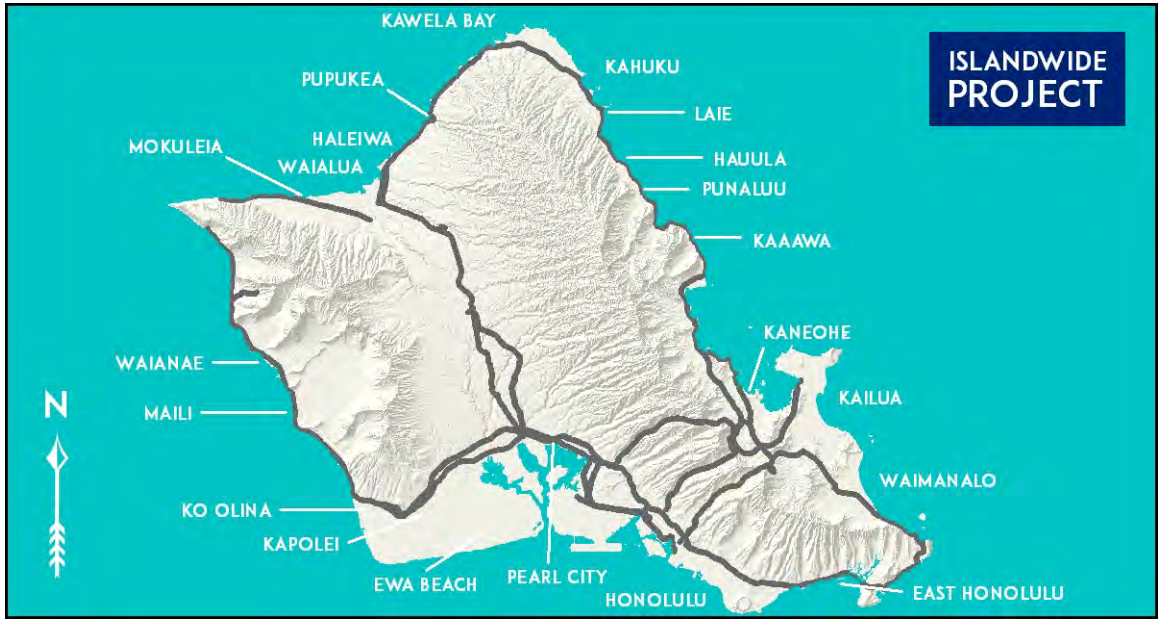
Project Sponsor: City and County of Honolulu (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
City Department of Design and Construction

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ROW	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LOCAL
PE2	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LOCAL
CON	0	0	0	35,165	3,625	31,540	43,805	5,070	38,735	0	0	0	0	0	0	0	0	0	STP FLEX
INSP	0	0	0	9,000	0	9,000	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
TOTAL	110	0	110	44,165	3,625	40,540	43,805	5,070	38,735	0	0	0	0	0	0	0	0	0	

OC25 Transportation Alternatives Program (MPO) at Various Locations



Project Description:
The Transportation Alternatives Program (TAP) is a competitive grant program that provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, and community improvement activities. Locations to be determined by the OahuMPO TAP Project Evaluation and Ranking process. HART projects may be flexed from FHWA to FTA.

Mile Post/s:

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: http://www.oahumpo.org/resources/publications-and-reports/transportation-alternatives-program-oahu/

Neighborhood(s): Various Locations

Estimated Total Project Cost: $10,691,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

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

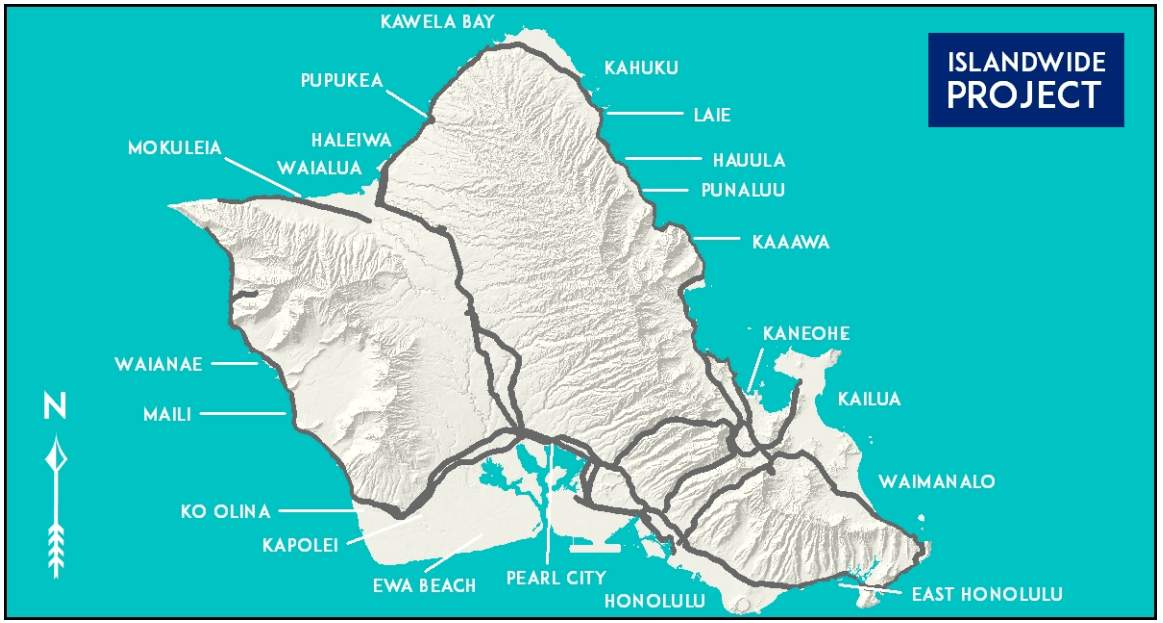
Agency Responsible for Carrying Out Project/Phase:
City Department of Transportation Services/HART

OC25 Transportation Alternatives Program (MPO) at Various Locations

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 3 - Ala Wai Bridge Project																			
PE1	300	240	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TAP-U
PE2	0	0	0	1,100	880	220	0	0	0	0	0	0	0	0	0	0	0	0	TAP-U
CON	0	0	0	0	0	0	0	0	0	8,589	6,871	1,718	0	0	0	0	0	0	STP FLEX
Phase 5 - East Kapolei Rail Station Multi-Modal Access Improvements																			
PE2	1,000	800	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TAP-U
TOTAL	1,300	1,040	260	1,100	880	220	0	0	0	8,589	6,871	1,718	0	0	0	0	0	0	

OC26 Transportation Alternative Program (State)



Project Description:
The Transportation Alternatives Program (TAP) is a competitive grant program that provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, and community improvement activities. Locations to be determined by the State TAP Project Evaluation and Ranking process. HART projects may be flexed from FHWA to FTA.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Islandwide

Estimated Total Project Cost: $1,700,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

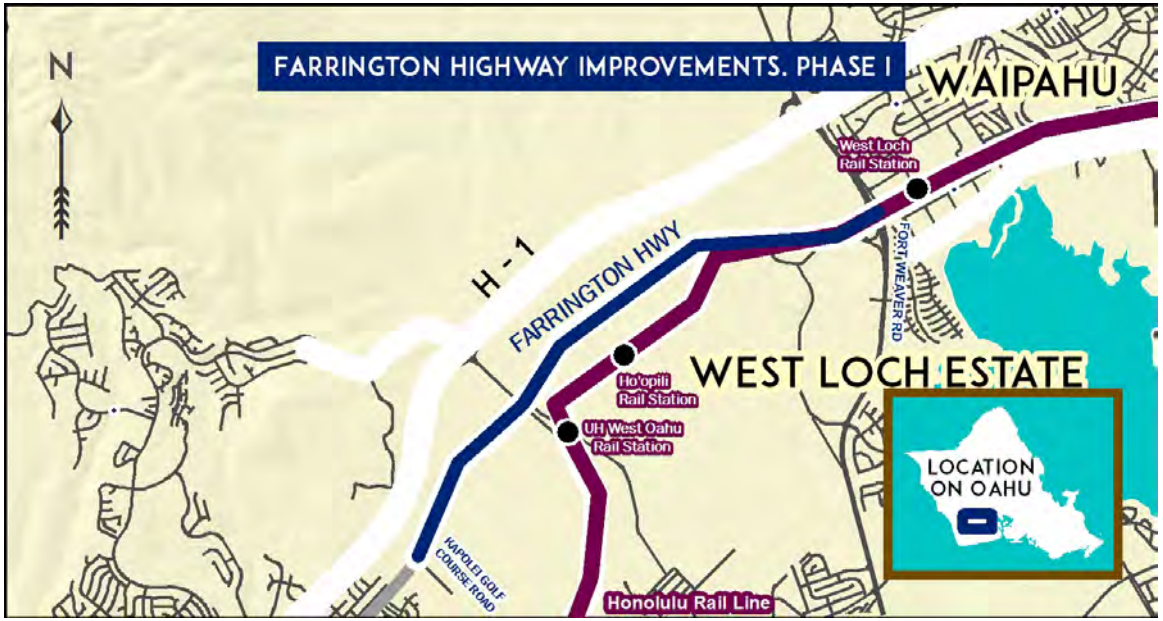
Project Sponsor: City and County of Honolulu (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
City Department of Transportation Services/HART

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Phase 3 - Haleiwa Road Multi-Use Path																			
PE2	0	0	0	200	160	40	0	0	0	0	0	0	0	0	0	0	0	0	TAP
CON	0	0	0	0	0	0	1,000	800	200	0	0	0	0	0	0	0	0	0	STP FLEX
INSP	0	0	0	0	0	0	500	400	100	0	0	0	0	0	0	0	0	0	STP FLEX
Phase 5 - Department of Planning and Permitting - Transit Oriented Development Wayfinding Master Plan																			
PE2	425	340	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	STP FLEX
TOTAL	425	340	85	200	160	40	1,500	1,200	300	0	0	0	0	0	0	0	0	0	

OC27 Farrington Highway (Routes 7100 and 9107) Improvements



Project Description:
Construct improvements to enhance sub-regional roadway connectivity and mobility, increase capacity and accommodate multimodal transportation options, from Kapolei Golf Course Road to west of Fort Weaver Road.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Not applicable.
Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Ewa, Waipahu

Estimated Total Project Cost: $121,020,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

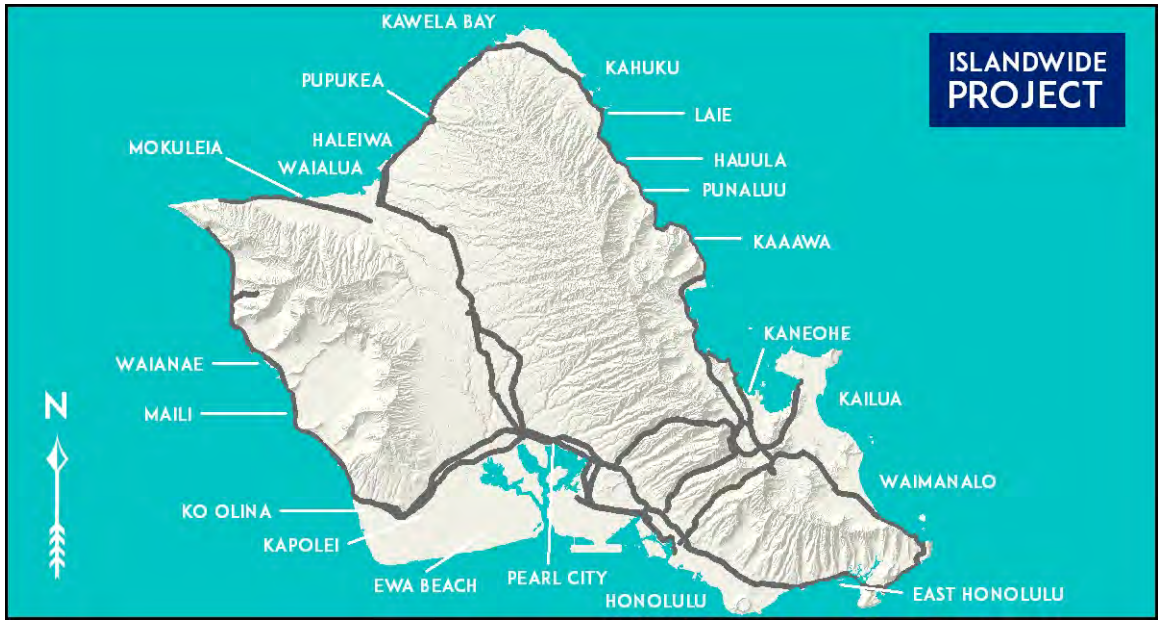
Project Sponsor: City and County of Honolulu (FHWA Funded)

Agency Responsible for Carrying Out Project/Phase:
City Department of Design and Construction

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
ROW	0	0	0	10	0	10	0	0	0	15,000	0	15,000	0	0	0	0	0	0	LOCAL
PE1	50	0	50	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	LOCAL
PE2	3,950	0	3,950	15,000	0	15,000	0	0	0	0	0	0	15,000	0	15,000	0	0	0	LOCAL
CON	0	0	0	0	0	0	0	0	0	0	0	0	72,000	0	72,000	0	0	0	LOCAL
TOTAL	4,000	0	4,000	15,020	0	15,020	0	0	0	15,000	0	15,000	87,000	0	87,000	0	0	0	

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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
Kailua Bike Boulevard																			
PE2	0	0	0	25	25	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	SRTS
INSP	0	0	0	0	0	0	0	0	0	0	0	0	70	70	0	0	0	0	SRTS
TOTAL	0	0	0	25	25	0	0	0	0	0	0	0	370	370	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)

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
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	FLAP
CON	0	0	0	6,033	4,826	1,207	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	

6.2.2 Oahu City (OC) Projects

6.2.2.2 FTA-Funded Oahu City Projects

OC13 Bus and Handi-Van Acquisition Program

Project Description:
Purchase replacement transit buses and Handi-Van vehicles.

By FFY:
2019: 30 < 30' buses + 18 - 40' buses + 28 - 60' buses
2020: 30 < 30' vehicles + 10 - 40' buses + 10 - 60' buses
2021: 30 < 30' buses + 10 - 40' buses + 10 - 60' buses
2022: 30 < 30' buses + 10 - 40' buses + 10 - 60' buses
2023: TBD
2024: TBD

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: Not applicable

Project Website: http://www.thebus.org and http://www.honolulu.gov/dts

Neighborhood(s): Various Locations

Estimated Total Project Cost: $102,896,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

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

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

OC13 Bus and Handi-Van Acquisition Program

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
2019: 30 <30' buses + 18 - 40' buses + 28 - 60' buses																			
EQP	26,093	20,874	5,219	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5307/§5340
EQP	2,474	1,979	495	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5337
EQP	11,521	9,217	2,304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5339
EQP	1,964	1,571	393	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5310
INSP	49	39	10	49	39	10	49	39	10	49	39	10	49	39	10	49	39	10	§5307/§5340
DES	642	513	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5339
2020: 30 <30' buses + 10 - 40' buses + 10 - 60' buses																			
EQP	0	0	0	9,678	7,742	1,936	0	0	0	0	0	0	0	0	0	0	0	0	§5307/§5340
EQP	0	0	0	3,698	2,958	740	0	0	0	0	0	0	0	0	0	0	0	0	§5339
EQP	0	0	0	392	314	78	0	0	0	0	0	0	0	0	0	0	0	0	§5310
EQP	0	0	0	2,142	1,713	429	0	0	0	0	0	0	0	0	0	0	0	0	§5337
2021: 30 <30' buses + 10 - 40' buses + 10 - 60' buses																			
EQP	0	0	0	0	0	0	15,630	8,232	7,398	0	0	0	0	0	0	0	0	0	§5307/§5340
EQP	0	0	0	0	0	0	1,814	1,451	363	0	0	0	0	0	0	0	0	0	§5337
EQP	0	0	0	0	0	0	3,772	3,018	754	0	0	0	0	0	0	0	0	0	§5339
EQP	0	0	0	0	0	0	402	321	81	0	0	0	0	0	0	0	0	0	§5310
2022: 30 <30' buses + 10 - 40' buses + 10 - 60' buses																			
EQP	0	0	0	0	0	0	0	0	0	16,364	8,818	7,546	0	0	0	0	0	0	§5307/§5340
EQP	0	0	0	0	0	0	0	0	0	1,850	1,480	370	0	0	0	0	0	0	§5337
EQP	0	0	0	0	0	0	0	0	0	3,848	3,078	770	0	0	0	0	0	0	§5339
EQP	0	0	0	0	0	0	0	0	0	417	334	83	0	0	0	0	0	0	§5310

OC13 Bus and Handi-Van Acquisition Program

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
2023: TBD																			
EQP	0	0	0	0	0	0	0	0	0	0	0	0	16,691	8,994	7,697	0	0	0	§5307/§5340
EQP	0	0	0	0	0	0	0	0	0	0	0	0	1,888	1,510	378	0	0	0	§5337
EQP	0	0	0	0	0	0	0	0	0	0	0	0	3,925	3,140	785	0	0	0	§5339
EQP	0	0	0	0	0	0	0	0	0	0	0	0	426	341	85	0	0	0	§5310
2024: TBD																			
EQP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,025	9,174	7,851	§5307/§5340
EQP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,925	1,540	385	§5337
EQP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,003	3,202	801	§5339
EQP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	434	347	87	§5310
TOTAL	42,743	34,193	8,550	15,959	12,766	3,193	21,667	13,061	8,606	22,528	13,749	8,779	22,979	14,024	8,955	23,436	14,302	9,134	

OC20 Preventive Maintenance

Project Description:
Preventive maintenance of FTA-funded rolling stock (buses and Handi-Vans) includes parts, labor, and other related expenses.

Mile Post/s:

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: Not applicable

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $105,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

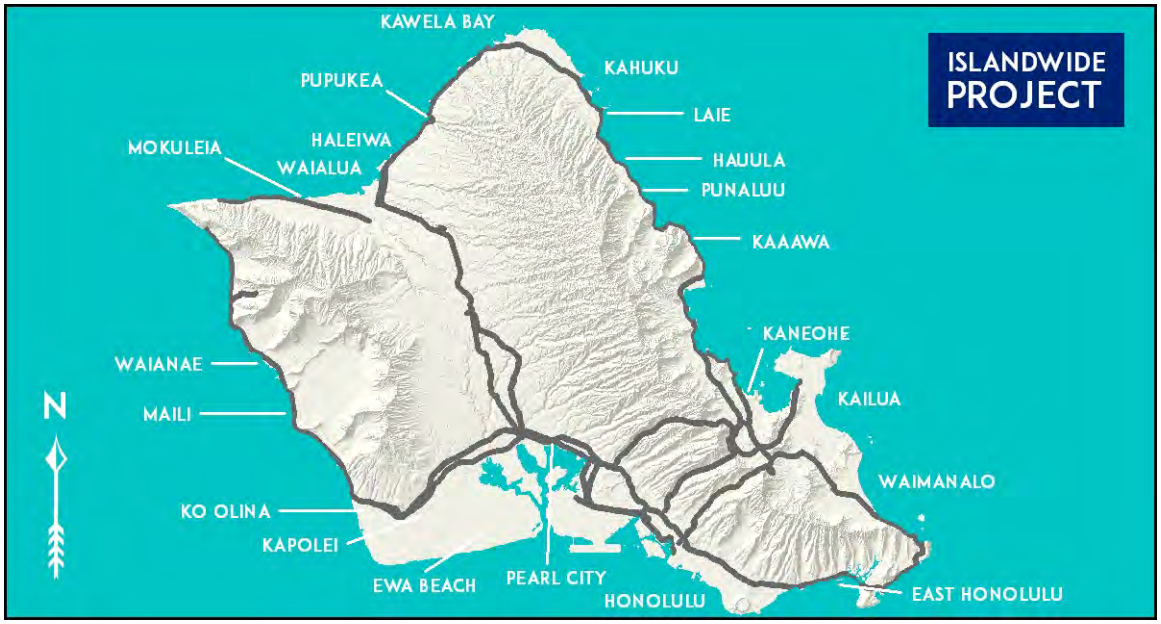
Project Sponsor: City and County of Honolulu (FTA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
OPR	26,250	21,000	5,250	26,250	21,000	5,250	26,250	21,000	5,250	26,250	21,000	5,250	26,250	21,000	5,250	26,250	21,000	5,250	§5307/§5340

OC21 Transit Safety and Security Projects



Project Description:
Capital improvement projects at various locations will provide safety and security aboard transit vehicles, and at future and existing bus stops and transit centers, park-and-ride lots, and bus maintenance facilties.

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement:

Existing Feature/s: No information available.

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $1,480,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

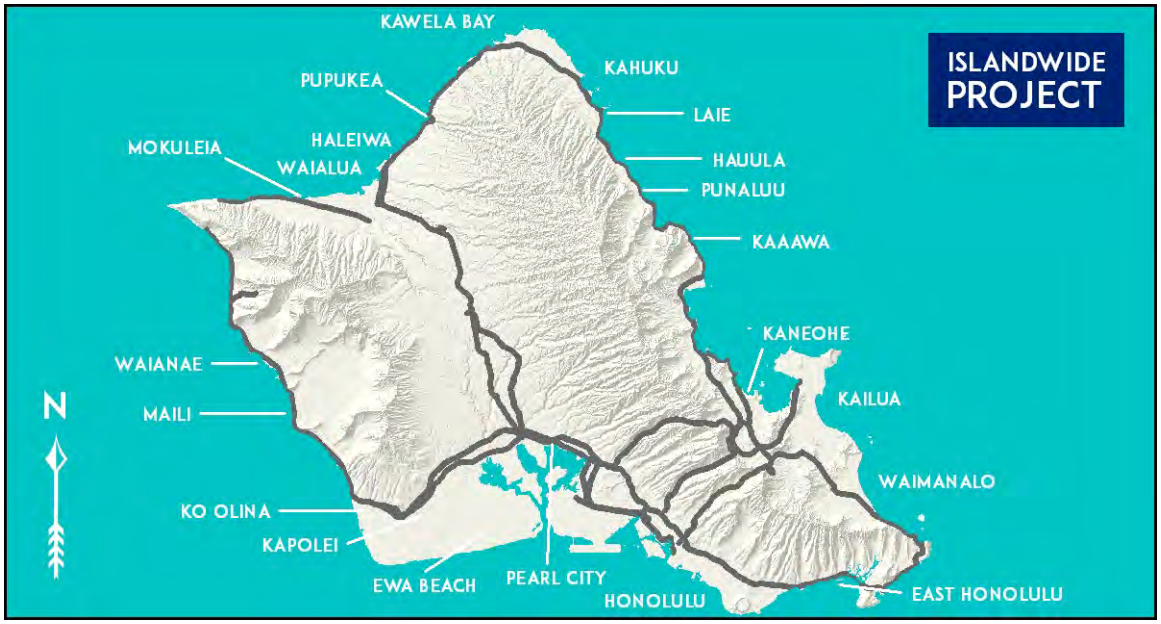
Project Sponsor: City and County of Honolulu (FTA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
PLN	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	LOCAL
DES	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	LOCAL
CON	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	LOCAL
EQP	357	284	73	364	291	73	370	296	74	377	301	76	378	302	76	382	305	77	§5307/§5340
TOTAL	360	284	76	367	291	76	373	296	77	380	301	79	381	302	79	385	305	80	

OC24 Capital Training



Project Description:
Department of Transportation Services staff attendance at training workshops offered by the National Transit Institute.

Mile Post/s:

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: Not applicable

Project Website: None

Neighborhood(s): Various Locations

Estimated Total Project Cost: $111,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

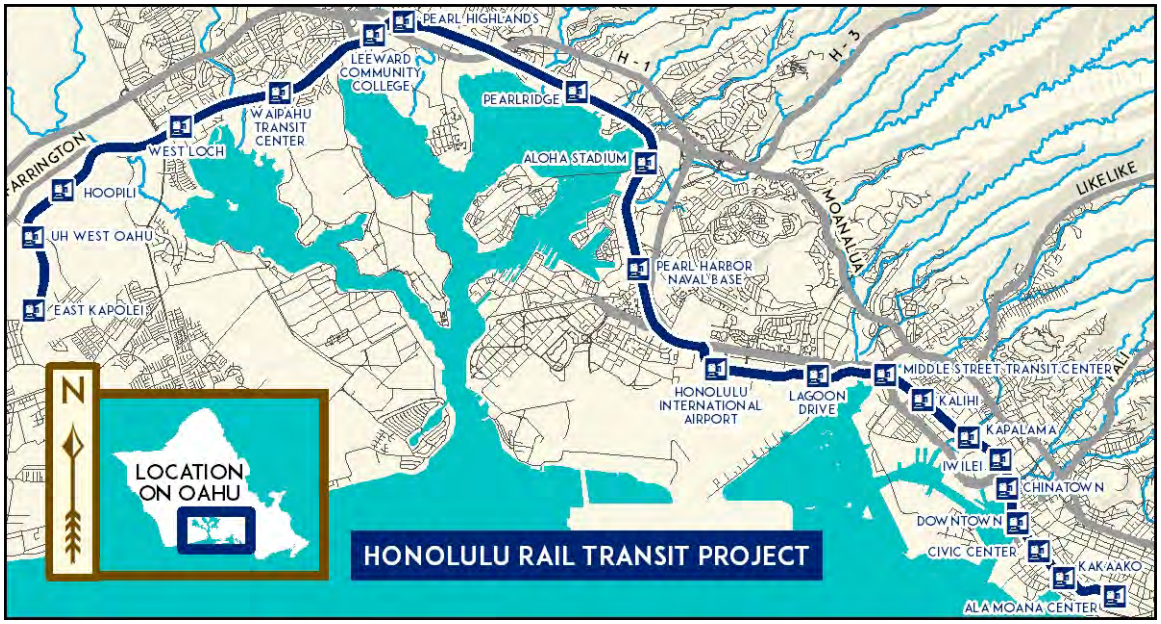
Project Sponsor: City and County of Honolulu (FTA Funded)

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

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
OPR	26	21	5	28	22	6	28	22	6	29	23	6	30	24	6	30	24	6	§5307/§5340

OC16 Honolulu Rail Transit Project



Project Description:
Plan, design, and construct a fixed guideway system between East Kapolei and Ala Moana Center. The system includes stations and related appurtenances, park-and-ride facilities, a maintenance and storage facility, light metro vehicles, and associated core systems.

Total estimate project cost: $8,165,000,000

Mile Post/s: Not applicable

Complete Streets (CS):

Project will implement: Not applicable

Existing Feature/s: Not applicable

Project Website: http://www.honolulutransit.org

Neighborhood(s): Makakilo-Kapolei-Honokai Hale, Ewa, Waipahu, Pearl City, Airport, Kalihi-Palama, Downtown, Ala Moana-Kakaako

Estimated Total Project Cost: $8,165,000,000
(May include project costs outside of the 4-year TIP and 2 informational years.)

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

Agency Responsible for Carrying Out Project/Phase:
Honolulu Authority for Rapid Transportation

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

	FFY 2019			FFY 2020			FFY 2021			FFY 2022			FOR INFORMATION ONLY FFY 2023			FOR INFORMATION ONLY FFY 2024			
Phase	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)	Funding Category
§5309 New Starts																			
HRTP	833,333	250,000	583,333	833,333	250,000	583,333	480,035	144,010	336,025	0	0	0	0	0	0	0	0	0	§5309
FHWA to FTA Flex Funds: HDOT Highway Improvements (OS64)																			
HRTP	6,150	5,000	1,150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5307/§5340
FHWA to FTA Flex Funds: Transportation Alternatives Program (OC25 and OC26)																			
Phase 1 TAP MPO - HART Secure Bike Storage Units																			
CON	0	0	0	500	400	100	0	0	0	0	0	0	0	0	0	0	0	0	§5307/§5340
Phase 2 TAP MPO - HART Middle Loch Connector																			
CON	375	300	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	§5307/§5340
Phase 1 TAP State - HART Chinatown Bike Facility (FHWA to FTA Flexed Funds)																			
PE2/CON	50	40	10	200	160	40	0	0	0	0	0	0	0	0	0	0	0	0	§5307/§5340
TOTAL	839,908	255,340	584,568	834,033	250,560	583,473	480,035	144,010	336,025	0	0	0	0	0	0	0	0	0	

6.3 FUNDING SUMMARY

	FFYS 2019-2022 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)												ILLUSTRATIVE YEARS FOR INFORMATION ONLY					
	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
FHWA - FUNDED PROJECTS																		
Oahu State (OS)																		
Original TIP Total	135,989	79,531	56,458	140,799	79,401	61,398	79,060	79,537	(477)	90,720	78,025	12,695	98,933	78,268	20,665	152,720	82,263	70,457
As of Revision 3 Changes	(32,269)	(8,768)	(23,501)	5,003	2,740	2,263	(5,730)	1,889	(7,619)	(285)	(14,955)	14,670	1,735	(539)	2,274	715	645	70
Total as of Revision 03	103,720	70,763	32,957	145,802	82,141	63,661	73,330	81,426	(8,096)	90,435	63,070	27,365	100,668	77,729	22,939	153,435	82,908	70,527
Oahu City (OC)																		
Original TIP Total	27,596	17,186	10,410	83,102	21,851	61,251	72,249	17,000	55,249	35,131	7,300	27,831	65,749	10,160	55,589	26,566	6,050	20,516
As of Revision 3 Changes	(10,602)	(5,497)	(5,105)	(8,763)	(6,100)	(2,663)	(12,367)	800	(13,167)	184	8,831	(8,647)	39,251	4,200	35,051	(19,000)	0	(19,000)
Total as of Revision 03	16,994	11,689	5,305	74,339	15,751	58,588	59,882	17,800	42,082	35,315	16,131	19,184	105,000	14,360	90,640	7,566	6,050	1,516
TOTAL FHWA	120,714	82,452	38,262	220,141	97,892	122,249	133,212	99,226	33,986	125,750	79,201	46,549	205,668	92,089	113,579	161,001	88,958	72,043

	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
FTA - FUNDED PROJECTS																		
Oahu State (OS)																		
Original TIP Total	834	667	167	859	687	172	883	707	176	910	728	182	939	751	188	968	774	194
As of Revision 3 Changes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total as of Revision 03	834	667	167	859	687	172	883	707	176	910	728	182	939	751	188	968	774	194
Oahu City (OC)																		
Original TIP Total	908,706	309,883	598,823	876,637	284,639	591,998	528,353	178,389	349,964	49,187	35,073	14,114	49,640	35,350	14,290	50,101	35,631	14,470
As of Revision 3 Changes	581	955	(374)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total as of Revision 03	909,287	310,838	598,449	876,637	284,639	591,998	528,353	178,389	349,964	49,187	35,073	14,114	49,640	35,350	14,290	50,101	35,631	14,470
TOTAL FTA	910,121	311,505	598,616	877,496	285,326	592,170	529,236	179,096	350,140	50,097	35,801	14,296	50,579	36,101	14,478	51,069	36,405	14,664

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

6.4 FHWA REGULAR FORMULA FUNDS PROGRAMMED

	TRANSPORTATION IMPROVEMENT PROGRAM				FOR INFORMATION ONLY	
	FFY 2019	FFY 2020	FFY 2021	FFY 2022	FFY 2023	FFY 2024
Oahu State (OS)						
National Highway Performance Program	67,301	77,181	70,109	60,783	75,842	82,621
Earmark High Priority	0	2,200	0	0	0	0
Highway Safety Improvement Program	3,000	25	4,030	2,000	1,600	0
Interstate Maintenance Discretionary	0	0	0	0	0	0
Recreational Trails Program	287	287	287	287	287	287
Surface Transportation Program - Flexible	0	60	2,000	0	0	0
Re-Purposed Earmarks	0	0	0	0	0	0
Transportation Enhancement	175	2,388	5,000	0	0	0
State - FHWA Total	**70,763**	**82,141**	**81,426**	**63,070**	**77,729**	**82,908**
Oahu City (OC)						
Bridge Off-System	800	800	800	800	800	800
Surface Transportation Program - Flexible	8,923	9,060	17,000	15,331	13,190	5,250
Transportation Alternatives Program - Urban	1,040	880	0	0	0	0
Transportation Alternatives Program	340	160	0	0	0	0
Safe Routes To School	0	25	0	0	370	0
Federal Lands Highway Discretionary	586	4,826	0	0	0	0
City - FHWA Total	**11,689**	**15,751**	**17,800**	**16,131**	**14,360**	**6,050**
FHWA TOTAL	**82,452**	**97,892**	**99,226**	**79,201**	**92,089**	**88,958**

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

7 FINANCIAL PLANNING

The primary sources of revenue underlying the surface transportation system for Oahu have been, and will continue to be our federal, state, and local governments. Federal funds are provided through the FHWA and the FTA. The FFYs 2019-2022 TIP is financially constrained; that is, there is a reasonable expectation that projects can be implemented using committed, available, or reasonably available federal and local funding.

An inflation factor was used in the financial assumptions to reflect "year of expenditure" dollars. As of 2017, HDOT sets a compounded inflation rate of 2% for all STIP projects. Therefore, agencies were requested to apply a 2% inflation factor to all project estimates.

7.1 FUNDING SOURCES

7.1.1 FHWA Program

The FHWA funds are appropriated annually by Congress. The Fixing America's Surface Transportation (FAST) Act is the authorization bill that governs federal surface transportation spending. It was signed into law by President Barack Obama on December 4, 2015.

The previous authorization bill for federal surface transportation spending was the Moving Ahead for Progress in the 21st Century (MAP-21) Act. President Barack Obama signed it on July 6, 2012. MAP-21 reformed aspects of the prior authorization bill, SAFETEA-LU. Map-21 consolidated bicycle and pedestrian transportation projects into one program for Transportation Alternatives (TAP).

Prior to Map-21, SAFETEA-LU had been signed into law by President George W. Bush on August 10, 2005, and extended through 2010 by the Continuing Appropriations Resolution, 2010 (Public Law 111-68), as amended.

Currently, FAST has established about $170-$190 million in obligation authority, estimated to be available for the entire *State of Hawaii* each fiscal year. Detailed information on the revenues estimated to be available for the State of Hawaii is available in HDOT's FFYs 2019-2022 STIP. OahuMPO's TIP focuses on transportation programs and projects for the *island of Oahu* only.

In developing the FFYs 2019-2022 TIP, OahuMPO, HDOT, and DTS cooperatively formulated estimates of FHWA funds that were reasonably expected to be available for projects on the island of Oahu. Statewide funding distribution estimates were developed based on a combination of historic data, vehicle miles travelled (VMT) and public

needs. It was estimated that about $78 million would be available annually for projects sponsored by the State of Hawaii, and about $17 million would be available for projects sponsored by the City and County of Honolulu, for a total of about $95 million for the island of Oahu.

Under the FAST Act, HDOT may transfer apportionments from one program to another (with associated repercussions). For example, HDOT may transfer up to 50% of its National Highway System apportionment to the Statewide Transportation Program apportionment. Therefore, the total amount of FHWA funds programmed is key. However, although this provides more immediate flexibility, transferring from one fund type to another reduces the ability to follow through with the intent of the fund and temporarily eliminates the possibility of applying for certain discretionary funds.

FHWA funding sources include:

- Congestion Mitigation Air Quality Improvement Program;
- Discretionary;
- Highway Safety Improvement Program;
- National Highway Performance Program;
- Recreational Trails Program;
- Surface Transportation Program (flexible);
- Transportation Alternatives; and
- Transportation Enhancement Program (residual).

Each of the funding sources is described below.

Congestion Mitigation & Air Quality Improvement Program

The Congestion Mitigation and Air Quality (CMAQ) Improvement Program provides funding for transportation projects or programs that will contribute to attainment or maintenance of the national ambient air quality standards for ozone, carbon monoxide, and particulate matter. Because Oahu is an air quality attainment area, CMAQ funds provide a flexible funding source for transportation projects. The FAST Act emphasizes diesel engine retrofits and alternative fuel infrastructure.

Discretionary

Discretionary funds are additional funds (not formula funds) that the federal government may decide to award to the region. Examples include Corridor Planning, Ferry Boats, System Preservation funding; Public Lands Highways funding; and congressional allocations.

Highway Safety Improvement Program

The purpose of the Highway Safety Improvement Program (HSIP) is to reduce traffic fatalities and serious injuries on all public roads. Projects must be consistent with the State's Safety Highway Safety Program, and must be identified on

the basis of crash experience, potential, rate, and/or other data-driven means.[3]

National Highway Performance Program

The National Highway Performance Program (NHPP) allows for the realization of varied functions including but not limited to support for its maintenance and performance, construction of new facilities, prevention of infrastructure-failure, and performance measure-based, asset management planning by individual state governments.

Residual sources of funding within NHPP include the National Highway System (NHS), which provided funding for improvements to rural and urban roads that are part of the NHS, including the Interstate System and designated connections to major intermodal terminals, because these roads are important to the nation's economy, defense, and mobility.

Another residual funding source is the Interstate Maintenance Program, which provided funding for resurfacing, restoring, rehabilitating, and reconstructing routes on the Interstate System.

Lastly, the Highway Bridge Program provided funding to improve the condition of highway bridges through replacement, rehabilitation, and systematic preventive maintenance. Bridge On-System funds were those for use on the Federal-aid highway system. Bridge Off-System funds were those for use not on the Federal-aid highway system.

Recreational Trails Program

The Recreational Trails Program (RTP) provides funds to develop and maintain recreational trails and trail-related facilities for both non-motorized and motorized recreational trail uses. Nationwide, federal transportation funds benefit recreation uses such as hiking, bicycling, in-line skating, equestrian use, cross-country skiing, snowmobiling, off-road motorcycling, all-terrain vehicle riding, four-wheel driving, or using other off-road motorized vehicles.

Surface Transportation Program

The Surface Transportation Program (STP) provides flexible funding that may be used for projects on any Federal-aid highway, including the NHPP, bridge projects on any public road, transit capital projects, and public bus terminals and facilities.

Transportation Alternatives

Transportation Alternatives (TA) is funded by set-aside Surface Transportation Block Grants. These include pedestrian and bicycle facilities, recreational trails, safe routes to school projects, historic preservation, vegetation management, and certain environmental mitigation.

[3] 23 U.S.C. 148(c)(2)(B)

Transportation Enhancement Program

The Transportation Enhancement (TE) Program funded activities or projects are those that add community or environmental value to any active or completed transportation project and are over and above what is required for normal environmental mitigation for transportation improvements. Funding ceased in 2013, but residual funds exist for some states if said funds remained within their period of eligibility

7.1.2 FTA Program

For financial constraint purposes, FTA formula apportionments, as estimated for FFYs 2019 and 2020 (https://www.transit.dot.gov/), were used. For FFYs 2021 to 2022, the nationwide funding level is assumed to grow at an annual rate of 2.1%, consistent with the Congressional Budget Office forecast of the Highway Trust Fund revenues.

FTA Funds include:

- §5307 Urbanized Area Formula;
- §5309 Fixed Guideway Modernization;
- §5309 New Starts;
- §5310 Enhanced Mobility;
- §5329 State Safety Oversight Program;
- §5337 State of Good Repair;
- §5339 Bus and Bus Facilities; and
- §5340 Growing States and High-Density States.

The following sections describe the various funding sources for FTA programs.

Urbanized Area Formula Program, 49 U.S.C. §5307

Section 5307 may be used for federal capital, operating, and planning assistance for transit in Urbanized Areas (UZAs), although operating assistance is generally not an eligible expense for UZAs with populations of 200,000 or more. A UZA is an area with a population of 50,000 or more that has been defined and designated as such in the most recent decennial census by the U.S. Census Bureau.

The City and County of Honolulu (City) is the designated recipient of funds apportioned to the Kailua-Kaneohe and Honolulu UZAs. The funds are apportioned based on legislative formulas, with different formulas applying to UZAs with populations less than 200,000 and UZAs with populations of 200,000 or more. The Kailua-Kaneohe UZA apportionment formula is based on population and population density statistics from the most recent decennial census. The Honolulu UZA apportionment formula is based on a combination of population and population density statistics, and validated mileage and transit service data in FTA's National Transit Database (NTD).

One percent of funds appropriated for Section 5307 is set aside for Small Transit Intensive Cities (STIC). FTA apportions these funds to UZAs under 200,000 in population that operate at a level of service equal to or

above the industry average level of service for all UZAs with a population of at least 200,000, but not more than 999,999, in one or more of six performance categories. FTA also apportions funds to urbanized areas under Section 5340 Growing States and High-Density States formula factors based on State population forecasts for 15 years beyond the most recent Census. Based on language in the SAFETEA-LU conference report, FTA consolidates the Section 5307, STIC, and Section 5340 amounts and identifies a single apportionment amount for each UZA. Section 5307 funds are available during the year of apportionment plus an additional three years, for a total of four years. The allocation of STIC will increase in FY 2019.

Section 5307 funds are programmed for transit vehicles and facilities, and preventive maintenance. FTA allows all maintenance costs as reported to the NTD to be eligible for capital assistance under "preventive maintenance."

Capital Investment Program, 49 U.S.C. §5309 – Fixed Guideway Modernization

Fixed Guideway Modernization (FGM) funds are apportioned by a statutory tiered formula to fixed guideway systems at least seven years old. In the City's case, the term "fixed guideway system" refers to facilities on which bus service operates on exclusive or controlled rights-of-way (e.g., Hotel Street), and high-occupancy vehicle lanes. Like the Section 5307 funds, NTD data is used to apportion FGM funds; the funds are available during the year of apportionment plus an additional three years, for a total of four years. Transit vehicles are the only programmed use for these funds.

Capital Investment Program, 49 U.S.C. §5309 – New Starts

New Starts funds are discretionary and are usually allocated by Congress. The New Starts program provides funds for construction of new fixed guideway systems or extensions to existing fixed guideway systems. Eligible purposes are light rail, rapid rail (heavy rail), commuter rail, monorail, automated fixed guideway system (such as a "people mover"), or a busway/high-occupancy vehicle facility, Bus Rapid Transit that is fixed guideway, or an extension of any of these.

The financial plan identifies three types of New Starts funds:

- Pre-FFY 2005 allocation that was extended until expended by the Conference Report on House Report 418, Consolidated Appropriations Act, 2005 (H.R. 108-792). These funds can be used for replacement, rehabilitation, and purchase of buses and related equipment and construction of bus-related facilities. The programmed use of these funds is to purchase transit vehicles.
- Post-FFY 2005 allocation for new fixed guideway systems or extensions to existing fixed guideway systems. These funds are programmed for the Honolulu Rail Transit Project.

The Post-FFY 2005 allocation was available during the year of allocation plus two additional years, for a total of three years dependent on availability of local matching funds.

Capital Investment Program, 49 U.S.C. §5310 – Enhanced Mobility of Seniors and Individuals with Disabilities

The TIP identifies specific types of transit-human services transportation projects that are statutorily-required, coordinated and public.

Enhanced Mobility is a pilot program which allows states and localities furnishing transit services to be direct recipients of program funds. To qualify, transportation services must link seniors and individuals with disabilities with non-emergency medical services.

State Safety Oversight Program, 49 U.S.C. §5329

The State Safety Oversight Program provides monies for the safety compliance of federally-funded public transit projects, and facilitates safety improvements for said projects. This program ensures compliance by separating Safety Oversight from the rail agencies that are being reviewed.

State of Good Repair Program, 49 U.S.C. §5337

The State of Good Repair (SOGR) funds exist to upkeep bus and rail transit systems. State of Good Repair currently funds maintenance of the Bus and Handi-van on Oahu. The FAST Act increased available SOGR funds.

Bus & Bus-Related Facilities, 49 U.S.C. §5339

Funds for Bus and Bus-Related Facilities (Bus Capital) funds are discretionary and are allocated for specific uses. Transit vehicles and facilities are programmed with these funds.

The TIP identifies specific types of transit-human services transportation projects that are statutorily-required, coordinated and public.

Growing States and High-Density States Formula, 49 U.S.C. §5340

Growing States and High--Density States Formula funding was established by SAFETEA-LU to supplement Urban Area Formula, pursuant to certain thresholds established by the FTA.

7.1.3 "Flexible" Funds

The Federal Highway and Transit Laws authorize certain funds to be "flexible." For example, FHWA Surface Transportation Program funds can be transferred from FHWA to FTA for use in transit projects, while FTA Urbanized Area Formula funds may be available for highway projects to the extent that OahuMPO is able to certify that:

7.1.4 Advance Construction

Advanced construction is a technique that allows a state to initiate a project using non-federal funds in the absence of sufficient Federal-aid obligation authority for the Federal match of funding[4]. This heightened eligibility means that FHWA has greatened the ability of transportation agencies to undertake concurrent projects. After an advance construction project is authorized, the State may convert the project to regular federal-aid funding, provided federal funds are made available for the project.

7.1.5 Local Funds

State of Hawaii Funds

The State of Hawaii imposes taxes, fees, and charges relating to the operation and use of motor vehicles on the public highways of the State. These funds are deposited into the State Highway Fund, established under Section 248-8 Hawaii Revised Statutes. Monies deposited in the State Highway Fund are used for acquisition, planning, design, construction, repair, and maintenance of the State Highway System.

The current taxes, fees, and charges deposited into the State Highway Fund consist of:

- Highway fuel taxes;
- Vehicle registration and licensing fees;
- Vehicle weight tax;
- Motor vehicle rental and tour vehicle surcharge taxes.

Other miscellaneous sources of revenue include interest earnings on monies previously credited to the State Highway Fund, vehicle weight tax penalties, certain rental income from State Highway System properties, passenger motor vehicle inspection charges, overweight permits, sales of surplus lands, commercial license fees, and other miscellaneous revenues.

Every other year, the Governor submits to the State Legislature the Administration's biennium budget. The Legislature reviews the biennium budget in detail and authorizes all or a portion of the biennium budget and the individual capital improvement projects.

Authorization of the operating and capital improvement budgets by the Legislature, as part of the biennium budget, includes the appropriation of monies from designated sources. These appropriations authorize the funding for the local match for the State's federal-aid projects in the TIP.

[4] 23 U.S.C. 115

City and County of Honolulu Funds

Where local funding is identified in the FFYs 2019-2022 TIP for City projects, City funds from existing revenue sources are programmed. The City exercises independent authority under the Hawaii State Constitution to assess, levy, and collect real property taxes. The Hawaii Revised Statutes authorizes the City to fix the fees and charges for all public services not otherwise provided for by the State and to issue general obligation bonds to finance its public improvement projects.

Under its Revised Charter, the City enacts balanced operating and capital budgets annually. The City operates on a 12-month fiscal year that begins on July 1st and ends on June 30th of the succeeding year. Appropriations authorized in the executive capital budget ordinance or any supplementary appropriation is valid for the fiscal year for which appropriation is made and twelve months thereafter; e.g., funds appropriated by the FFY 2017 capital budget ordinance are valid from July 1, 2016 until June 30, 2018 (Federal Fiscal Year 2017, quarter 3).

The City's bus preventive maintenance costs are funded by the City's annual operating budget. The Federal share of preventive maintenance costs are programmed on a reimbursable basis; i.e., funds appropriated for the City's FFY 2017 operating budget paid for preventive maintenance costs, and the Federal reimbursement was applied for and received in FFY 2017.

While it is anticipated that local funding will be available at the levels programmed in this document, enactment of the City's annual budget ordinances are still required.

Honolulu Authority for Rapid Transportation Funds

The Honolulu Authority for Rapid Transportation (HART) is a semi-autonomous public agency that is building the Honolulu Rail Transit Project. The local share of project costs is currently funded through a dedicated ½-percent surcharge on the-State General Excise and Use Tax (GET) and a 1 percent surcharge on the Transient Accommodation Tax (TAX) until 2030.

7.2 ANNUAL FINANCIAL PLANS FOR MAJOR PROJECTS

Title 23 United States Code Section 106 requires recipients of Federal financial assistance for projects to develop an annual Financial Plan for those projects that fall into either of the following two tiers:

- Projects with an estimated total project cost of $500 million or more (Major Projects: 23 U.S.C. 106(h)); or
- Projects with an estimated total project cost between $100 million and $500 million (Major Projects Other - 23 USC 106(i)).

At the FHWA Hawaii Division Administrator's discretion, projects within the State of Hawaii that fall in the range of $90-$100 million may also be required to prepare a Financial Plan.

Projects meeting these thresholds shall have Financial Plans and Annual Updates prepared by the Project Owner. The Project Owner can determine the effective date of the Annual Update submission. It could be on the anniversary of the initial financial plan or coincide with the State's fiscal year.

The FHWA Hawaii Division may provide assistance in developing Financial Plans and obtaining a Financial Plan template for Major Projects. For more information about Major Project requirements and Major Project financial plans, see the following FHWA websites:

- http://www.fhwa.dot.gov/programadmin/mega/; and
- http://www.fhwa.dot.gov/programadmin/mega/fplans.cfm.

7.3 FINANCIAL CONSTRAINT TABLES

The tables demonstrate the financial constraint of each of the funding sources for each fiscal year.

7.3.1 FHWA Financial Constraint

The FHWA program is financially constrained, as demonstrated in the following tables. The amount of FHWA funds estimated to be available for projects on Oahu is based on Federal Apportionment and determined through cooperative agreement between OahuMPO, HDOT, DTS, and HART. Information on the obligation authority estimated to be available for the entire State of Hawaii is available in the HDOT's FFYs 2019-2022 STIP, as revised.

FHWA Financial Constraint – FFY 2019

FFY 2019	Federal Funds Available for Oahu (x$1000)	Local Funds (x$1000)	Total Sources (x$1000)	Total Funds Programmed (x$1000)	Funds Balance (x$1000)
Bridge Off-System	800	200	1,000	1,000	-
Earmark High Priority	-	-	-	-	-
Highway Safety Improvement Program	3,000	(2,823)	177	177	-
Locally Funded	-	41,510	41,510	41,510	-
National Highway Performance Program	67,301	(8,971)	58,330	58,330	-
Recreational Trails Program	287	72	359	359	-
STP Flexible	8,923	(1,497)	7,426	7,426	-
STP (TE) Enhancement	175	9,279	9,454	9,454	-
TAP Urban	1,040	260	1,300	1,300	-
TAP	340	85	425	425	-
Safe Routes to School	-	-	-	-	-
Federal Lands Highway Discretionary (FLAP)	586	147	733	733	-
Congestion Mitigation Air Quality (CMAQ)	-	-	-	-	-
De-Obligations	2,180	-	2,180	-	2,180
LESS Off-STIP Obligations	(1,720)	-	(1,720)	-	(1,720)
FFY 2018 Balance					
Total	**82,912**	**38,262**	**121,174**	**120,714**	**460**

FHWA Financial Constraint – FFY 2020

FFY 2020	Federal Funds Available for Oahu (x$1000)	Local Funds (x$1000)	Total Sources (x$1000)	Total Funds Programmed (x$1000)	Funds Balance (x$1000)
Bridge Off-System	800	200	1,000	1,000	-
Earmark High Priority	2,200	550	2,750	2,750	-
Highway Safety Improvement Program	25	2,325	2,350	2,350	-
Locally Funded	-	50,420	50,420	50,420	-
National Highway Performance Program	77,181	25,187	102,368	102,368	-
Recreational Trails Program	287	72	359	359	-
STP Flexible	9,120	44,416	53,536	53,536	-
STP (TE) Enhancement	2,388	(2,388)	-	-	-
TAP Urban	880	220	1,100	1,100	-
TAP	160	40	200	200	-
Safe Routes to School	25	-	25	25	-
Federal Lands Highway Discretionary (FLAP)	4,826	1,207	6,033	6,033	-
Congestion Mitigation Air Quality (CMAQ)	-	-	-	-	-
De-Obligations	-	-	-	-	-
LESS Off-STIP Obligations	-	-	-	-	-
FFY 2019 Balance	460	-	460	-	460
Total	**98,352**	**122,249**	**220,601**	**220,141**	**460**

FHWA Financial Constraint – FFY 2021

FFY 2021	Federal Funds Available for Oahu (x$1000)	Local Funds (x$1000)	Total Sources (x$1000)	Total Funds Programmed (x$1000)	Funds Balance (x$1000)
Bridge Off-System	800	200	1,000	1,000	-
Earmark High Priority	-	-	-	-	-
Highway Safety Improvement Program	4,030	840	4,870	4,870	-
Locally Funded	-	35,400	35,400	35,400	-
National Highway Performance Program	70,109	(37,408)	32,701	32,701	-
Recreational Trails Program	287	72	359	359	-
STP Flexible	18,200	39,682	57,882	57,882	-
STP (TE) Enhancement	5,000	(5,000)	-	-	-
TAP Urban	-	-	-	-	-
TAP	800	200	1,000	1,000	-
Safe Routes to School	-	-	-	-	-
Federal Lands Highway Discretionary (FLAP)	-	-	-	-	-
Congestion Mitigation Air Quality (CMAQ)	-		-	-	
De-Obligations	-	-	-	-	-
LESS Off-STIP Obligations	-	-	-	-	-
FFY 2020 Balance	460	-	460	-	460
Total	**99,686**	**33,986**	**133,672**	**133,212**	**460**

FHWA Financial Constraint – FFY 2022

FFY 2022	Federal Funds Available for Oahu (x$1000)	Local Funds (x$1000)	Total Sources (x$1000)	Total Funds Programmed (x$1000)	Funds Balance (x$1000)
Bridge Off-System	800	200	1,000	1,000	-
Earmark High Priority	-	-	-	-	-
Highway Safety Improvement Program	2,000	(2,000)	-	-	-
Locally Funded	-	50,400	50,400	50,400	-
National Highway Performance Program	60,783	(6,207)	54,576	54,576	-
Recreational Trails Program	287	72	359	359	-
STP Flexible	15,333	3,984	19,317	19,317	-
STP (TE) Enhancement	-	-	-	-	-
TAP Urban	-	-	-	-	-
TAP	-	-	-	-	-
Safe Routes to School	-	-	-	-	-
Federal Lands Highway Discretionary (FLAP)	-	-	-	-	-
Congestion Mitigation Air Quality (CMAQ)	-	-	-	-	-
De-Obligations	-	-	-	-	-
LESS Off-STIP Obligations	-	-	-	-	-
FFY 2021 Balance	460	-	460	-	460
Total	**79,663**	**46,449**	**126,112**	**125,652**	**460**

7.3.2 FTA Financial

The FTA program is likewise financially constrained, as demonstrated in these financial constraint tables. The amount of FTA funds estimated to be available for projects on Oahu is determined through a cooperative agreement between OahuMPO, HDOT, DTS, and HART. Information on the revenues estimated to be available for the entire State of Hawaii is available in the HDOT's FFYs 2019-2022 STIP.

FTA Fiscal Constraint - FFY 2019

FTA Section Funds	Issue Year	FTA Apportionments and Allocations (x$000)	FTA Funds Carryover (x$000)	Total Available FTA Funds (X$000)	Total Project Costs (x$000)	Local Match (x$000)	Total Uses (x$000)	FTA Carryover (x$000)
§5307	2019	340	-	340	425	85	340	-
§5307/§5340	2019	33,440	-	33,440	41,700	8,260	33,440	-
	2018	-	13,644	13,644	16,949	3,390	13,559	85
§5309	2019	250	-	250	833	583	250	-
§5310	2019	307	-	307	384	77	307	-
	2018	-	626	626	783	157	626	-
	2017	-	638	638	798	160	638	
§5337	2019	1,395	-	1,395	1,744	349	1,395	-
	2018	-	874	874	730	146	584	290
§5339	2019	4,350	-	4,350	5,438	1,088	4,350	-
	2018	-	2,843	2,843	3,554	711	2,843	-
	2017	-	2,599	2,599	3,249	650	2,599	-
Local Funds Only		-	-	-	3,848	3,848		
Totals		40,082	21,224	61,306	80,435	19,504	60,931	375

FTA Fiscal Constraint - FFY 2020

FTA Section Funds	Issue Year	FTA Apportionments and Allocations (x$000)	FTA Funds Carryover (x$000)	Total Available FTA Funds (X$000)	Total Funds Available (x$000)	Local Match (x$000)	Total Uses (x$000)	FTA Carryover (x$000)
§5307	2020	560	-	560	700	140	560	-
§5307/§5340	2020	29,009	-	29,009	36,262	7,253	29,009	-
	2018	-	85	85	106	21	85	-
§5309	2020	250	-	250	833	583	250	-
§5310	2020	314	-	314	392	78	314	-
§5337	2020	1,423	-	1,423	1,779	356	1,423	-
	2018	-	290	290	363	73	290	-
§5339	2020	2,958	-	2,958	3,698	740	2,958	-
Local Funds Only					3,925	3,925		
Totals		34,514	375	34,889	48,058	13,169	34,889	-

FTA Fiscal Constraint - FFY 2021

FTA Section Funds	Issue Year	FTA Apportionments and Allocations (x$000)	FTA Funds Carryover (x$000)	Total Available FTA Funds (X$000)	Total Funds Available (x$000)	Local Match (x$000)	Total Uses (x$000)	FTA Carryover (x$000)
§5307/§5340	2021	29,589		29,589	36,987	7,398	29,589	-
§5309	2021	144	-	144	480	336	144	-
§5310	2021	321		321	401	80	321	-
§5337	2021	1,451		1,451	1,814	363	1,451	-
§5339	2021	3,018		3,018	3,772	754	3,018	-
Local Funds Only					4,004	4,004		
Totals		34,523	-	34,523	47,458	12,935	34,523	-

FTA Fiscal Constraint - FFY 2022

FTA Section Funds	Issue Year	FTA Apportionments and Allocations (x$000)	FTA Funds Carryover (x$000)	Total Available FTA Funds (X$000)	Total Funds Available (x$000)	Local Match (x$000)	Total Uses (x$000)	FTA Carryover (x$000)
§5307/§5340	2021	29,589		29,589	36,987	7,398	29,589	-
§5309	2021	144	-	144	480	336	144	-
§5310	2021	321		321	401	80	321	-
§5337	2021	1,451		1,451	1,814	363	1,451	-
§5339	2021	3,018		3,018	3,772	754	3,018	-
Local Funds Only					4,004	4,004		
Totals		34,523	-	34,523	47,458	12,935	34,523	-

APPENDIX A

CURRENT PLANNING FACTORS AS STATED IN THE CODE OF FEDERAL REGULATIONS (CFR)

From 23 CFR §450.306(b)

The metropolitan transportation planning process shall be continuous, cooperative, and comprehensive, and provide for consideration and implementation of projects, strategies, and services that will address the following factors:

(1) Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;

(2) Increase the safety of the transportation system for motorized and non-motorized users;

(3) Increase the security of the transportation system for motorized and non-motorized users;

(4) Increase accessibility and mobility of people and freight;

(5) Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;

(6) Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;

(7) Promote efficient system management and operation;

(8) Emphasize the preservation of the existing transportation system;

(9) Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and

(10) Enhance travel and tourism.

ACCESSED DECEMBER 16, 2016

APPENDIX B

INTERGOVERNMENTAL REVIEW & PUBLIC COMMENT
FOR THE DRAFT FFYS 2019-2022 TRANSPORTATION IMPROVEMENT PROGRAM (TIP) REVISION #3

The intergovernmental review and public comment period for the Draft FFYs 2019-2022 TIP Revision #3 began on January 11, 2019 and concluded on January 24, 2019. The Draft FFYs 2019-2022 TIP Revision#3 document was mailed and emailed to partner agencies, as well as interest organizations and public parties for comments and review.

AGENCY COMMENTS

COMMENTS	
SUMMARY OF COMMENT	RESPONSE
Department of Planning and Permitting (DPP) : It is noted in the Waianae Sustainable Communities Plan (SCP) that portions of the Farrington Highway are especially vulnerable to coastal flooding, including in the vicinity of Ulehawa Channel. The project description did not mention whether flooding or anticipated sea level rise would be factored in to the facility design and construction. Will removing the project based on top 30 priority under the Bridge Management System also remove it from consideration for the next TIP?	**Hawaii Department of Transporation (HDOT):** Ulehawa Stream Bridge is eligible to be included on the next TIP. It is also eligible to be re-included on the current 19-22 TIP, if the priority (determined thru our Bridge Management System) for it increases. As it stands, the current structural priority for this bridge is a Rehabilitation project (thus the removal), but borderline Replacement project. If/when it drops to a Replacement project, we would start to look for ways to prioritize it in the TIP/STIP again.
Department of Planning and Permitting (DPP): The Koolauloa SCP includes a general policy that calls for safe pedestrian walkways on bridges (4.1.3 Local Travel Guideline #5), and the OS32 South Kahana Bridge replacement would have considered CS principles. Will removing the project based on the top 30 under the Bridge Management System also remove it from consideration for the next TIP?	**Hawaii Department of Transportation (HDOT):** South Kahana Stream bridge was originally programmed as a functionally obsolete bridge. Functional obsolescence is no longer considered eligible for federal assistance. The current structural condition of the bridge is good… currently in the 150's in priority. This bridge will not likely be considered for re-inclusion for replacement until the priority becomes higher. This does not preclude it from receiving other life-extending treatments.

PUBLIC COMMENTS

COMMENTS	
SUMMARY OF COMMENT	RESPONSE
Elise Carmody: Projects OS16 and OS46 will be deleted and their funding reprogrammed to OS45. Will the deleted projects be reinstated into the long term TIP, or will they be dropped from any further consderation? Are these projects no longer needed? The concern is that projects are dropped and then "disappear" from consideration.	**Hawaii Department of Transportation (HDOT):** HDOT is doing its best to maintain its highway assets with the limited resources that are currently available. While projects OS16 and OS46 are currently being removed from the 19-22 STIP/Oahu TIP, the need for these projects still exist. OS45 is the current highway lighting priority project. HDOT will continue to pursue funding for projects OS16 and OS46, and will reprogram them when funding is found or other trade-offs can be identified.
Len Pepper: Several years ago the Salt Lake widening project was inadvertently left off the TIP resulting in considerable delay. I do not see the Salt Lake widening project on the draft. Please make certain that it is included if appropriate.	**Department of Transportation Services (DTS):** Salt Lake Boulevard Widening project is currently in the environmental/final design phase. The construction phase funding is programmed in the FFYs 2019-2022 TIP for FFYs 2020 and 2021.

PUBLIC COMMENTS

COMMENTS	
SUMMARY OF COMMENT	RESPONSE
Dean Capelouto : TIP is missing funding for OC7 project (Makakilo Drive Extension), which was promised to this community many years ago. Lack of project funding results in a safety issue, when as many as 18,000 people who live in the community have to suffer with only a single way in or out, which affects fire, ambulance, and the ability to evacuate in an emergency. Recommenf OMPO Policy Board place this project as a number one priority, as it had been the number one priority on the CAC previously. This project remains our number one priority - for this community over the past 6 years.	**Department of Transportation Services (DTS):** DTS is actively working on the Makakilo Drive Extension environmental documents using 100% local funds. The environmental documents must be revised and resubmitted due to potential alternatives in the design and construction methods pertaining to the use of fill over bridge spans. During the current design work, the DTS found that the project cost could be significantly reduced if the bridge section of the project was changed to a fill section. This alternative was not included in the original environmental assessment (EA) completed for the project in March 2009, as such, DTS needs to submit a new EA with this fill option alternative. DTS is actively meeting with HDOT and FHWA regarding this project. Once the documents are ready, they will be released for public review and comment. The EA should be completed and accepted this year and then final design can continue.

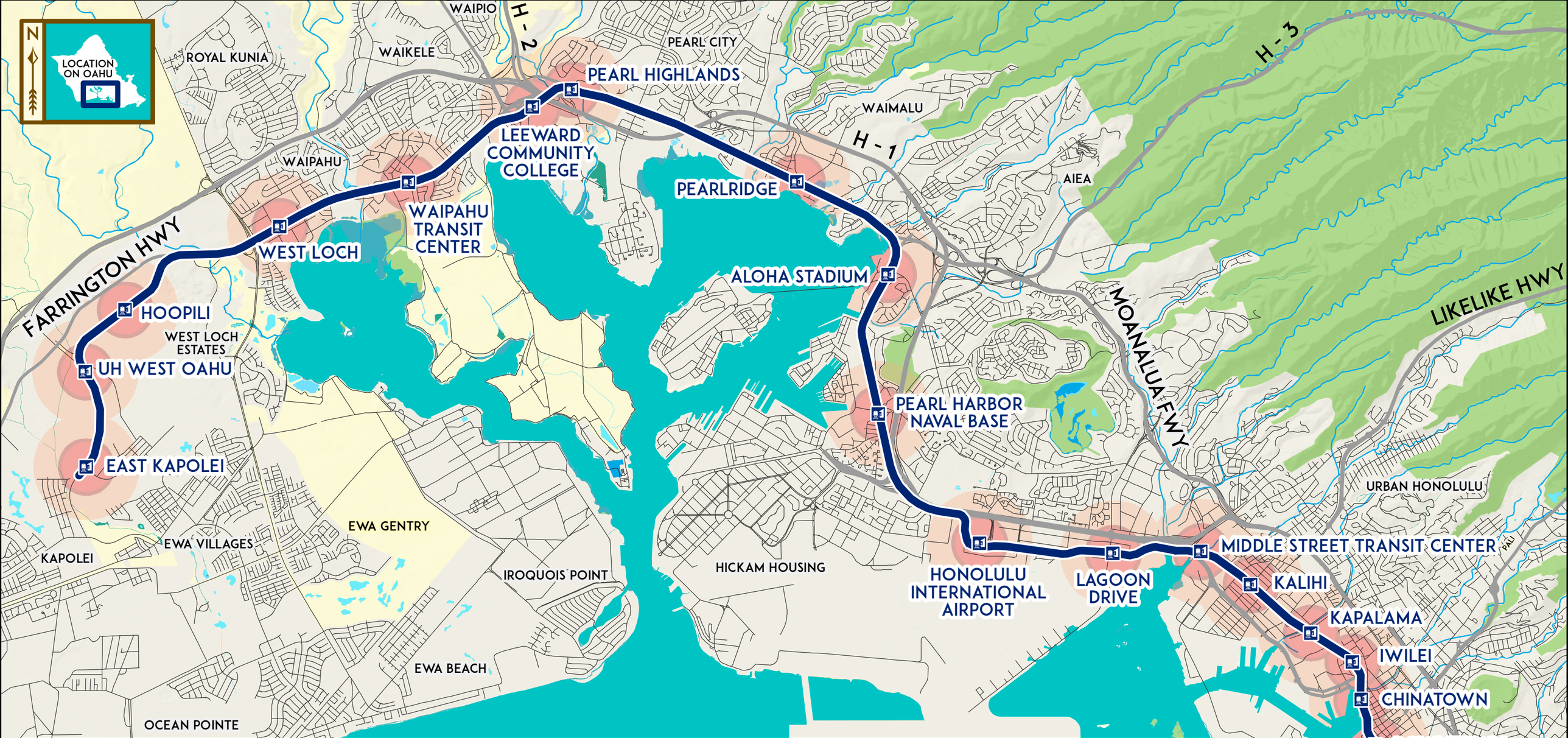
THE FOLLOWING AGENCIES RESPONDED WITH NO COMMENT

◊ Department of Budget and Fiscal Services
◊ University of Hawaii, West Oahu
◊ Hawaii Transportation Association

APPENDIX C

REGIONAL TRANSPORTATION ATLAS

Page	Title	Corresponding Project Numbers
C.1.	Honolulu Authority for Rapid Transportation (HART): Rail and Context	OC16 and OS68
C.2.	Na Ala Hele Trails on Oahu	OS49



HONOLULU AUTHORITY FOR RAPID TRANSPORTATION (HART): HONOLULU RAIL AND CONTEXT

LEGEND

0 1 2 4 6 8 MILES

RAIL AND TRANSIT-ORIENTED DEVELOPMENT (TOD) SYMBOLS

- GUIDEWAY
- TRANSIT STATIONS
- TOD NEAR STATION (0.25 MI.)
- TOD NEAR STATION (0.50 MI.)

GEOGRAPHIC CONTEXT

- AIEA CENSUS DESIGNATED PLACES (CDP)
- ARTERIAL ROADS
- STATE ROUTES (HIGHWAYS)
- OCEAN
- STREAMS

LAND USE DISTRICTING PER STATE OF HAWAII

- ZONED AGRICULTURAL
- ZONED CONSERVATION
- ZONED RURAL
- ZONED URBAN

WETLANDS SYMBOLOGY

- ESTUARINE AND MARINE WETLAND
- FRESHWATER EMERGENT WETLAND
- FRESHWATER FORESTED/SHRUB WETLAND
- FRESHWATER POND
- LAKE

Oahu MPO

THIS MAP HAS A SCALE OF 1 TO 55,000. THIS IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY; ALL LOCATIONS ARE APPROXIMATE (2017).

NA ALA HELE TRAILS ON OAHU

LEGEND

0 1 2 4 6 MILES

- TRAILS
- OFF-ROAD VEHICLE AREAS
- AIEA CENSUS DESIGNATED PLACES (CDP)
- STATE ROUTES (HIGHWAYS)
- ARTERIAL ROADS
- STREAMS

WATER-BODIES & WETLANDS

- OCEAN
- ESTUARINE AND MARINE
- FRESHWATER EMERGENT
- FRESHWATER FORESTED/SHRUB
- FRESHWATER POND
- LAKE

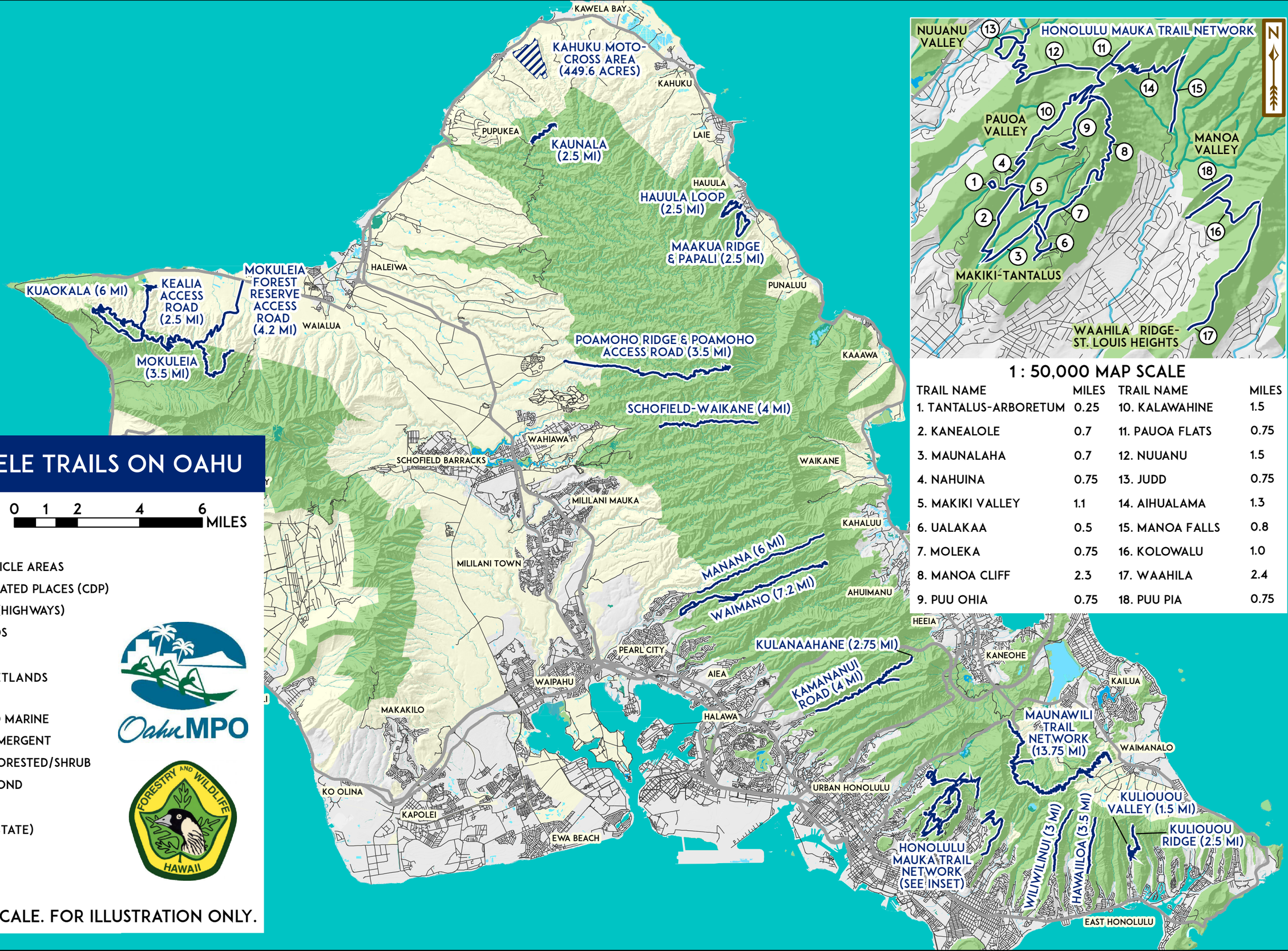
LAND USE ZONING (STATE)

- AGRICULTURAL
- CONSERVATION
- URBAN

1 : 175,000 MAP SCALE. FOR ILLUSTRATION ONLY.

OahuMPO

FORESTRY AND WILDLIFE HAWAII



1 : 50,000 MAP SCALE

TRAIL NAME	MILES	TRAIL NAME	MILES
1. TANTALUS-ARBORETUM	0.25	10. KALAWAHINE	1.5
2. KANEALOLE	0.7	11. PAUOA FLATS	0.75
3. MAUNALAHA	0.7	12. NUUANU	1.5
4. NAHUINA	0.75	13. JUDD	0.75
5. MAKIKI VALLEY	1.1	14. AIHUALAMA	1.3
6. UALAKAA	0.5	15. MANOA FALLS	0.8
7. MOLEKA	0.75	16. KOLOWALU	1.0
8. MANOA CLIFF	2.3	17. WAAHILA	2.4
9. PUU OHIA	0.75	18. PUU PIA	0.75

This report was funded in part through grants from the Federal Highway Administration and Federal Transit Administration, U.S. Department of Transportation. The views and opinions of the agency expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation.

The City and County of Honolulu is using the OahuMPO TIP public involvement process, as outlined in the Federal Highway Administration/Federal Transit Administration metropolitan transportation planning regulations (23 CFR 450/49 CFR 613), to satisfy the public hearing requirements for the Federal Transit Administration's Urbanized Area Formula Program (49 U.S.C. Section 5307) program-of-projects.