

**FEDERAL FISCAL YEARS 2011 - 2014  
TRANSPORTATION IMPROVEMENT PROGRAM**

**PROJECTS AS OF REVISION #31**

**September 2014**



Oahu Metropolitan Planning Organization  
707 Richards Street, Suite 200  
Honolulu, Hawaii 96813-4623  
(808) 587-2015  
[www.OahuMPO.org](http://www.OahuMPO.org)



## ABBREVIATIONS

|               |  |            |   |
|---------------|--|------------|---|
| §             | Section  | Enhance    | Transportation Enhancement Program (funding category)     |
| §5307         | Urbanized Area Formula Program (funding category)                            |            |   |
| §5309 BC      | Bus and Bus-Related Facilities (funding category)                            | EQP        | Equipment (phase)   |
| §5309 FGM     | Fixed Guideway Modernization (funding category)                              | FFY        | Federal Fiscal Year (October - September)                 |
| §5309 NS      | New Starts (funding category)  | FHWA       | Federal Highway Administration                            |
| §5316         | Job Access Reverse Commute Program (JARC) (funding category)                 | FHWA X-fer | FHWA transfer of funds from FTA                           |
|               |  | FTA        | Federal Transit Administration                            |
| §5317         | New Freedom Program (funding category)                                       | HDOT       | Hawaii Department of Transportation                       |
| §5337         | State of Good Repair (funding category)                                      | HfL        | Highways for LIFE (funding category)                      |
| §5339         | Bus and Bus Facilities Program (funding category)                            | HHCTCP     | Honolulu High-Capacity Transit Corridor Project           |
| §5340         | Growing States and High Density States Formula Program (funding category)    | HP         | High Priority Projects Program (funding category)         |
|               |  | HR         | House Report  |
| 3-C           | Continuing, Cooperative, Comprehensive                                       | HSIP       | Highway Safety Improvement Program (funding category)     |
| ADA           | Americans with Disabilities Act  |            |   |
| ADVCON        | Advance Construction Reimbursement   | IM         | Interstate Maintenance (funding category)                 |
| Bridge Off    | Bridge Off-System (funding category)   | INSP       | Inspection (phase)  |
| Bridge On/Off | Bridge On/Off-System (funding category)                                      | JARC       | Job Access and Reverse Commute Program (funding category) |
| CAC           | OahuMPO Citizen Advisory Committee   |            |   |
| CMAQ          | Congestion Mitigation and Air Quality Improvement Program (funding category) | Local Only | Funded with State or City funds (funding category)        |
|               |  | MAP-21     | Moving Ahead for Progress in the 21 <sup>st</sup> Century |
| CON           | Construction (phase)   | NF         | New Freedom Program (funding category)                    |
| DES           | Design (phase)   | NHS        | National Highway System (funding category)                |
| Discret       | Discretionary Funds (funding category)                                       | NTD        | National Transit Database                                 |
| DTS           | City and County of Honolulu Department of Transportation Services            | OahuMPO    | Oahu Metropolitan Planning Organization                   |
|               |  | OPR        | Operations (phase)  |

|                 |  |
|-----------------|--|
| ORTP            | Oahu Regional Transportation Plan  |
| PLN             | Planning (phase)   |
| PREROW          | Pre-Right-of-Way (phase)   |
| PROF SVCS       | Professional Services  |
| Rec Trails Prog | Recreational Trails Program (funding category)   |
| REL             | Relocation (phase)   |
| ROW             | Right-of-Way (phase)   |
| RY              | Report Year  |
| SAFETEA-LU      | Safe, Accountable, Flexible, Efficient Transportation<br>Equity Act – A Legacy for Users |
| SmUrb           | Small Urban  |
| SOGR            | State of Good Repair Grant   |
| STIC            | Small Transit Intensive Cities   |
| STIP            | Statewide Transportation Improvement Program   |
| STP Flex        | Surface Transportation Program Flexible funds (funding<br>category)                      |
| TIGER           | Transportation Investment Generating Economic<br>Recovery Grant                          |
| TIGGER          | Transit Investments for Greenhouse Gas and Energy<br>Reduction Grant                     |
| TIP             | Transportation Improvement Program   |
| USC             | United States Code   |
| UZA             | Urbanized Areas  |

**FFYs 2011 - 2014 TRANSPORTATION IMPROVEMENT PROGRAM  
PROJECT LISTING AS OF REVISION #31**

| PROJECT<br>NUMBER                                  | PROJECT NAME <i>(Sorted by Project Name)</i>   | TOTAL AMOUNT PROGRAMMED |                        |                        |                        |   |        | ESTIMATED<br>TOTAL<br>PROJECT<br>COST*<br>(x \$1000) |
|--|--|-------------------------|------------------------|------------------------|------------------------|---|--------|--|
|  |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u><br>FFY 2015<br>(x \$1000)    FFY 2016<br>(x \$1000) |        |  |
| <b>FHWA - Funded Projects</b>                      |  |                         |                        |                        |                        |   |        |  |
| <b><u>State of Hawaii - Sponsored Projects</u></b> |  |                         |                        |                        |                        |   |        |  |
| OS87   | Bridge and Pavement Improvement Program, Oahu  | 17,000                  | 48,000                 | 43,600                 | 56,800                 | 36,400  | 36,400 | 237,800  |
| OS1  | Castle Hills Access Road Drainage Improvements, Phase II   | 4,300                   | 0                      | 0                      | 0                      | 0   | 0      | 16,800   |
| OS2  | Farrington Highway (Route 93), Bridge Rehabilitation, Ulehawa Stream Bridge                          | 0                       | 0                      | 0                      | 0                      | 562   | 0      | 13,400   |
| OS3  | Farrington Highway (Route 93), Bridge Replacement, Maipalaoa Bridge                                  | 0                       | 0                      | 0                      | 0                      | 13,500  | 0      | 16,560   |
| OS82   | Farrington Highway (Route 93), Bridge Replacement, Makaha Bridges #3 & #3A                           | 0                       | 0                      | 0                      | 0                      | 17,650  | 0      | 20,000   |
| OS4  | Farrington Highway (Route 93), Intersection Improvements, Haleakala Avenue (Route 8743)              | 0                       | 0                      | 8,840                  | 0                      | 0   | 0      | 10,600   |
| OS5  | Farrington Highway (Route 93), Intersection Improvements, Nanakuli Avenue (Route 8744)               | 0                       | 0                      | 8,840                  | 0                      | 0   | 0      | 10,600   |
| OS6  | Farrington Highway (Route 93), Safety Improvements, Vicinity of Leihoku Street to Kili Drive         | 1,960                   | 0                      | 0                      | 0                      | 0   | 0      | 2,390  |
| OS8  | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 1C | 7,000                   | 0                      | 0                      | 8,500                  | 0   | 0      | 61,500   |
| OS9  | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 2A | 0                       | 1,900                  | 0                      | 0                      | 5,000   | 0      | 61,500   |

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|---|--|-------------------------|------------------------|------------------------|------------------------|---|--------|--|
|   |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u><br>FFY 2015<br>(x \$1000)    FFY 2016<br>(x \$1000) |        |  |
| <b>FHWA - Funded Projects</b>               |  |                         |                        |                        |                        |   |        |  |
| <b>State of Hawaii - Sponsored Projects</b> |  |                         |                        |                        |                        |   |        |  |
| OS10  | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 2B       | 0                       | 0                      | 0                      | 0                      | 1,980   | 10,000 | 61,500   |
| OS11  | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 3A       | 0                       | 0                      | 0                      | 0                      | 2,000   | 0      | 64,000   |
| OS12  | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), System Manager | 4,000                   | 0                      | 0                      | 2,500                  | 0   | 0      | 64,000   |
| OS13  | Freeway Service Patrol   | 2,000                   | 2,000                  | 3,500                  | 3,500                  | 3,500   | 3,500  | 18,000   |
| OS14  | Guardrail and Shoulder Improvements, Various Locations   | 0                       | 0                      | 0                      | 0                      | 2,435   | 3,250  | 5,850  |
| OS15  | Interstate Route H-1 and Interstate Route H-2, and Route H-201 Destination Sign Upgrade/Replacement        | 0                       | 4,500                  | 0                      | 0                      | 0   | 2,704  | 8,200  |
| OS93  | Interstate Route H-1 Safety Improvements, Beginning of H-1 (Palailai Interchange) to Waiawa Overpass       | 0                       | 0                      | 0                      | 500                    | 0   | 0      | 4,500  |
| OS16  | Interstate Route H-1, Bridge Rehabilitation, Kapalama Canal, Halona Street Bridge                          | 775                     | 0                      | 0                      | 0                      | 0   | 0      | 3,000  |
| OS88  | Interstate Route H-1, Corridor Study   | 0                       | 2,500                  | 0                      | 0                      | 0   | 0      | 2,500  |
| OS19  | Interstate Route H-1, Guardrail and Shoulder Improvements, Kapiolani Interchange to Ainakoa Avenue         | 0                       | 0                      | 0                      | 0                      | 6,240   | 0      | 6,750  |

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|--|--|-------------------------|------------------------|------------------------|------------------------|-------------------------------|------------------------|--|
|  |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u> |                        |  |
|  |  |                         |                        |                        |                        | FFY 2015<br>(x \$1000)        | FFY 2016<br>(x \$1000) |  |
| <b>FHWA - Funded Projects</b>                      |  |                         |                        |                        |                        |                               |                        |  |
| <b><u>State of Hawaii - Sponsored Projects</u></b> |  |                         |                        |                        |                        |                               |                        |  |
| OS20   | Interstate Route H-1, Guardrail and Shoulder Improvements, Middle Street (Route 7415) to Punchbowl Street (Route 7516) | 0                       | 0                      | 0                      | 0                      | 5,410                         | 0                      | 5,700  |
| OS21   | Interstate Route H-1, Highway Lighting Improvements, Kaimakani Overpass to Gulick Avenue                               | 0                       | 0                      | 0                      | 0                      | 6,997                         | 0                      | 14,000   |
| OS83   | Interstate Route H-1, Installation of Access Control, Makakilo Interchange to Vicinity of H-1/H-2 Interchange          | 2,500                   | 0                      | 0                      | 0                      | 0                             | 0                      | 2,750  |
| OS22   | Interstate Route H-1, Kapolei Interchange Complex  | 0                       | 0                      | 0                      | 0                      | 60,000                        | 571                    | 60,000   |
| OS24   | Interstate Route H-1, Pearl City and Waimalu Viaduct Improvements, Phase 2   | 0                       | 0                      | 0                      | 0                      | 0                             | 23,250                 | 100,000  |
| OS25   | Interstate Route H-1, PM Contraflow, Westbound, Waiawa Interchange Improvements, Phase I                               | 0                       | 0                      | 0                      | 0                      | 0                             | 17,525                 | 167,000  |
| OS90   | Interstate Route H-1, Rehabilitation, Middle Street to Vicinity of Ward Avenue   | 0                       | 0                      | 35,000                 | 0                      | 0                             | 0                      | 36,000   |
| OS27   | Interstate Route H-1, Waiawa Interchange, Westbound, Waipahu Off-Ramp Improvements                                     | 0                       | 0                      | 0                      | 0                      | 0                             | 3,432                  | 24,000   |
| OS28   | Interstate Route H-3, Safety Improvements, Vicinity of Kamehameha Highway Off-Ramp to Kaneohe Marine Corps Base Hawaii | 150                     | 0                      | 1,600                  | 0                      | 0                             | 0                      | 1,750  |
| OS29   | Interstate Route H-3, Seismic Retrofit, Halekou Interchange, Structures 1, 2, and 3                                    | 0                       | 0                      | 0                      | 0                      | 0                             | 1,080                  | 3,500  |
| OS92   | ITS Operation and Maintenance  | 0                       | 0                      | 0                      | 285                    | 285                           | 285                    | 1,000  |

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|---|---|-------------------------|------------------------|------------------------|------------------------|-------------------------------|------------------------|--|
|   |   | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u> |                        |  |
|   |   |                         |                        |                        |                        | FFY 2015<br>(x \$1000)        | FFY 2016<br>(x \$1000) |  |
| <b>FHWA - Funded Projects</b>               |   |                         |                        |                        |                        |                               |                        |  |
| <b>State of Hawaii - Sponsored Projects</b> |   |                         |                        |                        |                        |                               |                        |  |
| OS84  | Kalaniana'ole Highway (Route 72) Bicycle Improvements, Waimanalo Beach Park to Makai Pier             | 0                       | 0                      | 0                      | 0                      | 2,703                         | 0                      | 3,283  |
| OS33  | Kalaniana'ole Highway (Route 72), Bridge Replacement, Inoaole Stream Bridge, Waimanalo                | 0                       | 0                      | 0                      | 0                      | 9,360                         | 0                      | 10,900   |
| OS34  | Kalaniana'ole Highway (Route 72), Improvements, Olomana Golf Course to Waimanalo Beach Park, Phase I  | 0                       | 0                      | 0                      | 13,520                 | 0                             | 0                      | 41,630   |
| OS35  | Kalaniana'ole Highway (Route 72), Improvements, Olomana Golf Course to Waimanalo Beach Park, Phase II | 0                       | 0                      | 0                      | 0                      | 918                           | 0                      | 41,630   |
| OS94  | Kamehameha Highway (Route 80), Repair and Repaint of Karsten Thot Bridge                              | 0                       | 0                      | 0                      | 8,100                  | 0                             | 0                      | 9,000  |
| OS99  | Kamehameha Highway (Route 99), Bridge Rehabilitation Kipapa Stream (Roosevelt) Bridge                 | 0                       | 0                      | 0                      | 1,600                  | 0                             | 0                      | 19,000   |
| OS40  | Kamehameha Highway, Bridge Rehabilitation, Makaua Stream Bridge                                       | 0                       | 0                      | 0                      | 0                      | 379                           | 0                      | 5,600  |
| OS37  | Kamehameha Highway, Bridge Replacement, Kaipapau Stream Bridge  | 0                       | 0                      | 0                      | 0                      | 16,225                        | 0                      | 22,000   |
| OS43  | Kamehameha Highway, Bridge Replacement, Kaluanui Stream Bridge  | 0                       | 0                      | 0                      | 53                     | 612                           | 0                      | 11,000   |
| OS45  | Kamehameha Highway, Bridge Replacement, Kawela Stream Bridge  | 0                       | 0                      | 0                      | 0                      | 0                             | 9,735                  | 10,700   |
| OS39  | Kamehameha Highway, Bridge Replacement, Laieloa Stream Bridge   | 0                       | 0                      | 0                      | 193                    | 8,775                         | 0                      | 9,500  |

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|  |  |                         |                        |                        |                        | FFY 2015<br>(x \$1000)        | FFY 2016<br>(x \$1000) |  |
| <b>FHWA - Funded Projects</b>                      |  |                         |                        |                        |                        |                               |                        |  |
| <b><u>State of Hawaii - Sponsored Projects</u></b> |  |                         |                        |                        |                        |                               |                        |  |
| OS48   | Kamehameha Highway, Bridge Replacement, South Kahana Stream Bridge                           | 0                       | 100                    | 0                      | 0                      | 984                           | 0                      | 14,000   |
| OS49   | Kamehameha Highway, Bridge Replacement, Upper Poamoho Stream Bridge                          | 0                       | 0                      | 0                      | 0                      | 1,229                         | 17,300                 | 24,600   |
| OS50   | Kamehameha Highway, Bridge Replacement, Waiahole Stream Bridge                               | 0                       | 0                      | 0                      | 0                      | 648                           | 11,253                 | 13,000   |
| OS51   | Kamehameha Highway, Bridge Replacement, Waikane Stream Bridge                                | 0                       | 100                    | 0                      | 265                    | 0                             | 0                      | 8,000  |
| OS41   | Kamehameha Highway, Bridge Replacement, Waipilopilo Stream Bridge                            | 200                     | 0                      | 260                    | 0                      | 0                             | 0                      | 10,000   |
| OS56   | Kamehameha Highway, Rockfall Protection, Waimea Bay  | 0                       | 50                     | 0                      | 0                      | 470                           | 9,690                  | 11,100   |
| OS58   | Kamehameha Highway, Safety Improvements, Kahana Valley Road to Kaaawa Bridge                 | 0                       | 0                      | 0                      | 1,560                  | 0                             | 0                      | 1,650  |
| OS62   | Kamehameha Highway, Safety Improvements, Kahekili Highway to Vicinity of Waikane Valley Road | 0                       | 0                      | 0                      | 0                      | 2,550                         | 0                      | 3,000  |
| OS60   | Kamehameha Highway, Safety Improvements, Vicinity of Pohuehue Road to Waikane Valley Road    | 200                     | 0                      | 0                      | 1,000                  | 0                             | 0                      | 1,200  |
| OS63   | Kamehameha Highway, Shoreline Protection, Vicinity of Hauula                                 | 700                     | 0                      | 0                      | 0                      | 0                             | 0                      | 6,500  |
| OS64   | Kamehameha Highway, Shoreline Protection, Vicinity of Kaaawa                                 | 700                     | 0                      | 0                      | 0                      | 0                             | 0                      | 11,800   |
| OS65   | Kamehameha Highway, Shoreline Protection, Vicinity of Punaluu                                | 0                       | 0                      | 0                      | 0                      | 6,885                         | 0                      | 7,750  |

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|---|--|-------------------------|------------------------|------------------------|------------------------|-------------------------------|------------------------|--|
|   |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u> |                        |  |
|   |  |                         |                        |                        |                        | FFY 2015<br>(x \$1000)        | FFY 2016<br>(x \$1000) |  |
| <b>FHWA - Funded Projects</b>               |  |                         |                        |                        |                        |                               |                        |  |
| <b>State of Hawaii - Sponsored Projects</b> |  |                         |                        |                        |                        |                               |                        |  |
| OS67  | Kamehameha Highway, Wetland Enhancement, Vicinity of Ukoa Pond   | 0                       | 0                      | 0                      | 0                      | 6,240                         | 0                      | 6,750  |
| OS98  | Kamehameha Highway (Route 83), Bridge Replacement Hoolapa (Nanahu) Stream Bridge                                     | 0                       | 0                      | 0                      | 1,100                  | 0                             | 0                      | 6,000  |
| OS91  | Kualakai Parkway (Route 8930) Extension  | 0                       | 0                      | 0                      | 0                      | 17,000                        | 0                      | 20,000   |
| OS69  | Leeward Bikeway, Phase I, Waipio Point Access Road to Hawaiian Railway Society Train Station                         | 0                       | 0                      | 0                      | 9,020                  | 0                             | 0                      | 19,000   |
| OS70  | Leeward Bikeway, Phase II, Hawaiian Railway Society Train Station to Lualualei Naval Road                            | 2,500                   | 0                      | 0                      | 0                      | 104                           | 2,805                  | 19,000   |
| OS96  | Middle Street (Route 7415) Pavement Reconstruction, King Street (Route 7410) to Kamehameha Highway (Route 7401)      | 0                       | 0                      | 0                      | 15,000                 | 0                             | 0                      | 16,000   |
| OS71  | Moanalua Freeway (Route 78) and Interstate Route H-2, Guardrail and Shoulder Improvements                            | 0                       | 0                      | 0                      | 0                      | 6,000                         | 0                      | 6,200  |
| OS72  | Moanalua Freeway (Route H-201), Highway Lighting Improvements, Halawa Heights Off-Ramp to the Middle Street Overpass | 0                       | 0                      | 0                      | 0                      | 6,000                         | 0                      | 8,500  |
| OS73  | Moanalua Freeway (Route H-201), Highway Lighting Improvements, Halawa to the H-3 Freeway Overpass                    | 0                       | 0                      | 0                      | 0                      | 2,387                         | 0                      | 8,500  |
| OS74  | Moanalua Freeway (Route H-201), Seismic Retrofit, Puuloa Interchange, Ramp "A"                                       | 0                       | 0                      | 0                      | 0                      | 0                             | 3,950                  | 4,800  |
| OS75  | Moanalua Freeway (Route H-201), Seismic Retrofit, Puuloa Separation  | 0                       | 0                      | 0                      | 0                      | 0                             | 6,450                  | 7,300  |
| OS79  | Recreational Trails Program  | 359                     | 359                    | 359                    | 359                    | 359                           | 359                    | 2,154  |

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|--|--|-------------------------|------------------------|------------------------|------------------------|---|----------------|--|
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| <b>FHWA - Funded Projects</b>                      |  |                         |                        |                        |                        |   |                |  |
| <b><u>State of Hawaii - Sponsored Projects</u></b> |  |                         |                        |                        |                        |   |                |  |
| OS97   | Sand Island Access Road (Route 64), Truck Weigh Station, Kapalama Container Terminal | 0                       | 0                      | 0                      | 0                      | 260   | 0              | 5,000                                  |
| OS81   | Vineyard Boulevard (Route 98), Improvements, Vicinity of Queen's Medical Center      | 0                       | 0                      | 52                     | 12,730                 | 0   | 0              | 13,000                                 |
| <b>State of Hawaii - FHWA Total</b>                |  | <b>44,344</b>           | <b>59,509</b>          | <b>102,051</b>         | <b>136,585</b>         | <b>252,047</b>  | <b>163,539</b> | <b>1,544,197</b>                       |

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| PROJECT<br>NUMBER  | PROJECT NAME <i>(Sorted by Project Name)</i>                                     | TOTAL AMOUNT PROGRAMMED |                        |                        |                        |                               |                        | ESTIMATED<br>TOTAL<br>PROJECT<br>COST*<br>(x \$1000) |
|--|--|-------------------------|------------------------|------------------------|------------------------|-------------------------------|------------------------|--|
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|  |  |                         |                        |                        |                        | FFY 2015<br>(x \$1000)        | FFY 2016<br>(x \$1000) |  |
| <b>FHWA - Funded Projects</b>                                  |  |                         |                        |                        |                        |                               |                        |  |
| <b><u>City and County of Honolulu - Sponsored Projects</u></b> |  |                         |                        |                        |                        |                               |                        |  |
| OC1  | Alapai Transit Center Multi-Use Path   | 210                     | 0                      | 0                      | 0                      | 0                             | 0                      | 210  |
| OC2  | Alapai Transportation Management Center  | 17,875                  | 5,000                  | 7,001                  | 20,367                 | 22,972                        | 24,909                 | 98,124   |
| OC3  | Bicycle Projects   | 2,256                   | 946                    | 1,182                  | 934                    | 1,092                         | 2,252                  | 8,662  |
| OC4  | Bridge Inspection and Appraisal  | 900                     | 900                    | 1,000                  | 900                    | 1,000                         | 1,000                  | 5,700  |
| OC5  | Computerized Traffic Control System  | 251                     | 3,682                  | 1                      | 0                      | 0                             | 3,805                  | 7,739  |
| OC6  | Kapolei Parkway (Route 8920), Kunehi Street to Kamokila Boulevard                | 16,402                  | 3,937                  | 2,200                  | 0                      | 0                             | 0                      | 22,539   |
| OC25   | Kuakini Street Extension   | 0                       | 20                     | 2,107                  | 1,000                  | 0                             | 0                      | 3,127  |
| OC7  | Makakilo Drive (Route 8810) Extension  | 0                       | 0                      | 3,000                  | 0                      | 0                             | 0                      | 88,500   |
| OC8  | Salt Lake Boulevard (Route 7311), Widening, Maluna Street to Ala Liliko'i Street | 0                       | 0                      | 0                      | 22,000                 | 22,000                        | 22,000                 | 66,000   |
| OC9  | Seismic Bridge Retrofit  | 0                       | 0                      | 0                      | 300                    | 0                             | 600                    | 900  |
| OC10   | Traffic Improvements at Various Locations  | 300                     | 1                      | 1,918                  | 1,319                  | 1,440                         | 5,063                  | 10,041   |
| OC30   | Traffic Signal Maintenance Facility  | 0                       | 0                      | 5,002                  | 80                     | 0                             | 0                      | 5,082  |
| OC26   | Traffic Signal Optimization  | 0                       | 1,470                  | 0                      | 0                      | 0                             | 0                      | 1,470  |
| OC11   | Traffic Signals at Various Locations   | 352                     | 3,701                  | 350                    | 3,452                  | 3,426                         | 7,683                  | 18,964   |
| OC12   | Upgrade Pedestrian Signals at Various Locations                                  | 510                     | 150                    | 0                      | 0                      | 0                             | 0                      | 660  |
| <b>City and County of Honolulu - FHWA Total</b>                |  | <b>39,056</b>           | <b>19,807</b>          | <b>23,761</b>          | <b>50,352</b>          | <b>51,930</b>                 | <b>67,312</b>          | <b>337,718</b>                                       |

\* Estimated total project cost may extend beyond the four years of the TIP.

| PROJECT<br>NUMBER             | PROJECT NAME <i>(Sorted by Project Name)</i> | TOTAL AMOUNT PROGRAMMED |                        |                        |                        |   |                | ESTIMATED<br>TOTAL<br>PROJECT<br>COST* |
|-------------------------------|--|-------------------------|------------------------|------------------------|------------------------|---|----------------|--|
|                               |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u><br>FFY 2015<br>(x \$1000)    FFY 2016<br>(x \$1000) |                |  |
| <b>FHWA - Funded Projects</b> |  |                         |                        |                        |                        |   |                |  |
| <b>FHWA TOTAL</b>             |  | <b>83,400</b>           | <b>79,316</b>          | <b>125,812</b>         | <b>186,937</b>         | <b>303,977</b>  | <b>230,851</b> | <b>1,881,915</b>                       |

\* Estimated total project cost may extend beyond the four years of the TIP.

| PROJECT<br>NUMBER                                  | PROJECT NAME <i>(Sorted by Project Name)</i>       | TOTAL AMOUNT PROGRAMMED |                        |                        |                        |   |            | ESTIMATED<br>TOTAL<br>PROJECT<br>COST* |
|--|--|-------------------------|------------------------|------------------------|------------------------|---|------------|--|
|  |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u><br>FFY 2015<br>(x \$1000)    FFY 2016<br>(x \$1000) |            |  |
| <b>FTA - Funded Projects</b>                       |  |                         |                        |                        |                        |   |            |  |
| <b><u>State of Hawaii - Sponsored Projects</u></b> |  |                         |                        |                        |                        |   |            |  |
| OS85   | JARC (Small Urban)                                 | 175                     | 140                    | 140                    | 0                      | 0   | 0          | 455                                    |
| OS86   | New Freedom (Small Urban)                          | 144                     | 120                    | 232                    | 0                      | 0   | 0          | 496                                    |
| OS95   | Transportation Assistance for Elderly and Disabled | 0                       | 0                      | 875                    | 869                    | 916   | 931        | 3,661                                  |
| <b>State of Hawaii - FTA Total</b>                 |  | <b>319</b>              | <b>260</b>             | <b>1,247</b>           | <b>869</b>             | <b>916</b>  | <b>931</b> | <b>4,612</b>                           |

\* Estimated total project cost may extend beyond the four years of the TIP.

| PROJECT<br>NUMBER  | PROJECT NAME <i>(Sorted by Project Name)</i>     | TOTAL AMOUNT PROGRAMMED |                        |                        |                        |                               | ESTIMATED<br>TOTAL<br>PROJECT<br>COST* |                        |
|--|--|-------------------------|------------------------|------------------------|------------------------|-------------------------------|--|------------------------|
|  |  | FFY 2011<br>(x \$1000)  | FFY 2012<br>(x \$1000) | FFY 2013<br>(x \$1000) | FFY 2014<br>(x \$1000) | <u>(For information only)</u> |  | FFY 2016<br>(x \$1000) |
|  |  |                         |                        |                        |                        | FFY 2015<br>(x \$1000)        | FFY 2016<br>(x \$1000)                 |                        |
| <b>FTA - Funded Projects</b>                                   |  |                         |                        |                        |                        |                               |  |                        |
| <b><u>City and County of Honolulu - Sponsored Projects</u></b> |  |                         |                        |                        |                        |                               |  |                        |
| OC13   | Agency-Provided Trips                            | 230                     | 422                    | 426                    | 1,085                  | 312                           | 324                                    | 2,799                  |
| OC14   | Bus and Handi-Van Acquisition Program            | 5,837                   | 26,685                 | 19,367                 | 48,794                 | 54,141                        | 26,380                                 | 181,292                |
| OC27   | Bus Stop ADA Access Improvements                 | 0                       | 0                      | 898                    | 598                    | 598                           | 598                                    | 2,692                  |
| OC28   | Bus Stop Pad Improvements                        | 0                       | 0                      | 975                    | 925                    | 524                           | 524                                    | 2,948                  |
| OC29   | Bus Stop Site Improvements                       | 0                       | 0                      | 832                    | 505                    | 501                           | 501                                    | 2,339                  |
| OC15   | Honolulu High-Capacity Transit Corridor Project  | 80,900                  | 0                      | 1,695,450              | 888,801                | 747,000                       | 446,000                                | 5,163,495              |
| OC16   | Local Shuttle Service                            | 0                       | 190                    | 208                    | 204                    | 212                           | 220                                    | 1,034                  |
| OC17   | Middle Street Intermodal Center                  | 300                     | 0                      | 0                      | 0                      | 4,310                         | 29,524                                 | 34,134                 |
| OC18   | Mobility Management                              | 596                     | 372                    | 372                    | 771                    | 400                           | 416                                    | 2,927                  |
| OC19   | Preventive Maintenance                           | 0                       | 88,664                 | 40,034                 | 50,459                 | 48,459                        | 50,397                                 | 278,013                |
| OC24   | Special Needs Transportation                     | 146                     | 0                      | 0                      | 0                      | 0                             | 0                                      | 146                    |
| OC21   | Transit Safety and Security Projects             | 2                       | 457                    | 1,170                  | 416                    | 416                           | 416                                    | 2,877                  |
| OC22   | West Oahu Bus and Handi-Van Maintenance Facility | 0                       | 0                      | 0                      | 2,051                  | 8,004                         | 21,504                                 | 31,559                 |
| OC23   | Windward Transit Center                          | 0                       | 0                      | 0                      | 3,353                  | 204                           | 0                                      | 3,557                  |
| <b>City and County of Honolulu - FTA Total</b>                 |  | <b>88,011</b>           | <b>116,790</b>         | <b>1,759,732</b>       | <b>997,962</b>         | <b>865,081</b>                | <b>576,804</b>                         | <b>5,709,812</b>       |
| <b>FTA TOTAL</b>   |  | <b>88,330</b>           | <b>117,050</b>         | <b>1,760,979</b>       | <b>998,831</b>         | <b>865,997</b>                | <b>577,735</b>                         | <b>5,714,424</b>       |

\* Estimated total project cost may extend beyond the four years of the TIP.

**OS87 Bridge and Pavement Improvement Program, Oahu**



**Project Description:**

This is an ongoing islandwide program for the system maintenance of highway bridges and pavements. 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. The current list of prioritized proposed SMP projects, for Oahu, has been posted on the OahuMPO website at:

<http://www.oahumpo.org/programs/tipcurrent.html>. Qualified and priority SMP projects could receive federal funds should they become available.

**Project Website:** <http://hidot.hawaii.gov/highways/other/other-related>

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$237,800,000  
(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

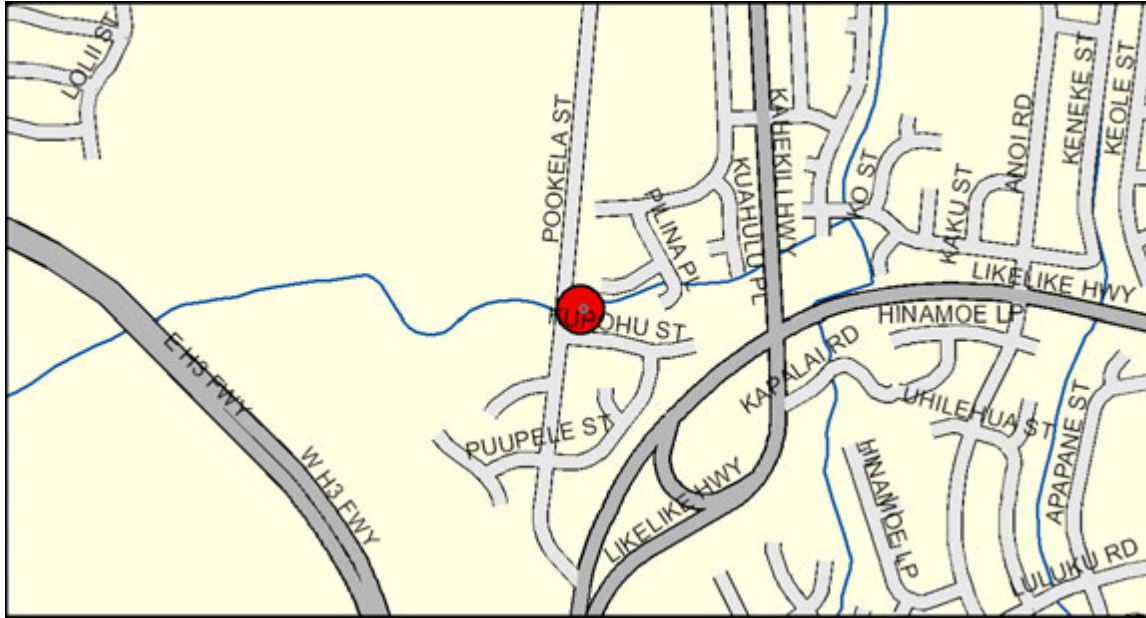
| Phase  | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|--|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|  | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|  | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| <i>a. Fort Weaver Road (Route 76), Pavement Preservation, Popoi Place to Renton Road (MP 0.00 - 3.99) - Cold plane; resurface; reconstruct weakened pavement areas; install signs, pavement marking and striping, milled rumble strips, and loop detectors; and adjust manholes. The scope of the project does not include bicycle or pedestrian elements.</i> |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON  | 5,000                | 4,000             | 1,000           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex         |
| <i>b. Interstate Route H-1, Airport Viaduct Improvements, Valkenburg Street to Middle Street</i>   |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON  | 0                    | 0                 | 0               | 30,000          | 24,000            | 6,000           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | IM               |
| <i>c. Interstate Route H-1, Deck Repair, Salt Lake Viaduct, Eastbound - Replace the concrete deck. The scope of the project does not include bicycle or pedestrian elements.</i>   |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON  | 3,500                | 3,150             | 350             | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | Bridge On/Off    |



## OS87 Bridge and Pavement Improvement Program, Oahu

| Phase   | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|---|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|   | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|   | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| <i>d. Kahuapaani Street (Route 7241), Resurfacing, Salt Lake Boulevard to Moanalua Freeway (MP 0.00 - 0.80) - Cold plane and pave; replace existing guardrails and end treatments; upgrade bridge railing end post; install pavement markings and reflective markers; upgrade crash attenuators; replace detectable warnings; and upgrade a curb ramp. This project will improve pedestrian and bicycle elements, such as an existing curb ramp.</i>  |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON   | 0                    | 0                 | 0               | 8,250           | 6,600             | 1,650           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex         |
| <i>e. Kalaniana'ole Highway (Route 72) Resurfacing, Hanauma Bay Road to West Hind Drive</i>   |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 14,000          | 11,200            | 2,800           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | NHS              |
| <i>f. Kamehameha Highway (Route 83) Resurfacing, Waihau Street to Ka Uka Boulevard</i>  |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 20,400          | 16,320            | 4,080           | 0               | 0                 | 0               | 0               | 0                 | 0               | NHS              |
| <i>g. Mokapu Saddle Road (Route 65), Resurfacing, Kapaa Quarry Road to Kalaheo Avenue (MP 3.00 - 4.15) - Resurface, replace damaged curb and gutter; construct drainage structures; adjust utility manholes and pull boxes; upgrade guardrails; install concrete bus pads, curb ramps, sidewalks, underdrains, landscaping, irrigations, loop detectors, and striping and pavement markings. This project will improve pedestrian and bicycle elements, such as curb ramps and sidewalks.</i> |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON   | 8,500                | 6,800             | 1,700           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex         |
| <i>h. Vineyard Boulevard (Route 98) Resurfacing, Palama Street to Punchbowl Street (MP 0 - 1.76)</i>  |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON   | 0                    | 0                 | 0               | 9,750           | 500               | 9,250           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex         |
| ADVCON  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 7,300             | -7,300          | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex         |
| <i>i. Locations Not Yet Determined</i>  |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| CON   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 29,600          | 0                 | 29,600          | 36,400          | 0                 | 36,400          | 36,400          | 0                 | 36,400          | 36,400          | 0                 | 36,400          | IM/NHS/STP Flex  |

**OS1 Castle Hills Access Road Drainage Improvements, Phase II**



**Project Description:**

Construct a retention basin and/or other drainage improvements in the vicinity of Pookela Street, Kupohu Street, and Pilina Way in Kaneohe.

**Project Website:** None

**Neighborhood(s):** Kaneohe

**Estimated Total Project Cost:** \$16,800,000  
*(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

| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|         | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|         | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| ROW/CON | 4,300     | 3,200     | 1,100     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |

**OS2 Farrington Highway (Route 93), Bridge Rehabilitation, Ulehawa Stream Bridge**



**Project Description:**

Rehabilitate the existing bridge to meet current design standards. The bridge will be widened, lengthened, have bridge railings installed that will redirect errant vehicles, have wider shoulders for pedestrians and bicycles, and be strengthened to accommodate present day vehicular loads. The rehabilitated bridge will provide a safer and more efficient facility to residents and visitors who utilize Farrington Highway in the vicinity of Nanakuli. The rehabilitated bridge will decrease the annual operation and maintenance costs for HDOT.

**Project Website:** None

**Neighborhood(s):** Waianae Coast

**Estimated Total Project Cost:** \$13,400,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 562                  | 450     | 112   | 0        | 0       | 0     | Bridge On/Off    |

**OS3 Farrington Highway (Route 93), Bridge Replacement, Maipalaoa Bridge**



**Project Description:**

Replace the existing bridge with a concrete structure that meets current design standards. The new structure will include bridge railings.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Nanakuli-Maili

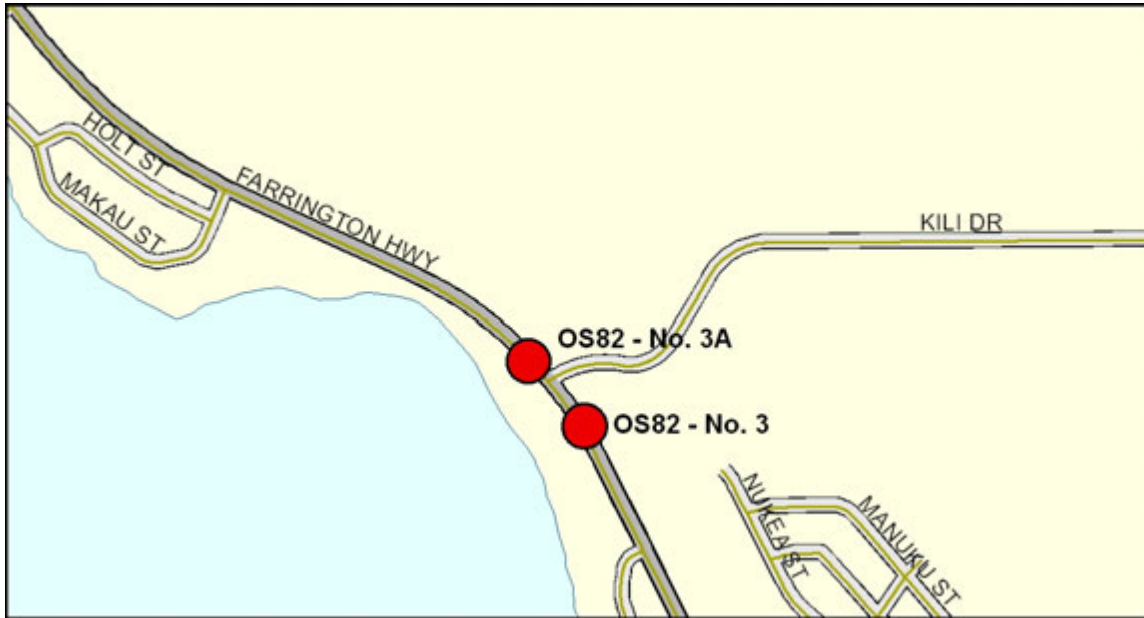
**Estimated Total Project Cost:** \$16,560,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |        | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|--------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |        |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local  |                  |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 13,500               | 5,000   | 8,500    | 0     | 0       | 0      | Bridge On/Off    |
| ADVCON | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 5,800   | -5,800 | Bridge On/Off    |

**OS82 Farrington Highway (Route 93), Bridge Replacement, Makaha Bridges #3 & #3A**



**Project Description:**

Replace a timber bridge in the vicinity of Makaha Beach Park. The scope includes widening paved shoulders from 3 feet on the makai side and 1 foot on the mauka side to 10 feet on each side to accommodate bicyclists and pedestrians.

**Project Website:** None

**Neighborhood(s):** Waianae Coast

**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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |        | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|--------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |        |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local  |                  |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,100                | 880     | 220   | 0        | 0       | 0      | Bridge On/Off    |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 16,550               | 10,240  | 6,310 | 0        | 0       | 0      | Bridge On/Off    |
| ADVCON | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 3,000   | -3,000 | Bridge On/Off    |

**OS4 Farrington Highway (Route 93), Intersection Improvements, Haleakala Avenue (Route 8743)**



**Project Description:**

Construct intersection improvements on Farrington Highway, such as a left-turn lane onto Haleakala Avenue, roadway widening, resurfacing, roadway excavation, drainage, traffic signal modifications, and underground utilities.

**Project Website:** None

**Neighborhood(s):** Nanakuli-Maui

**Estimated Total Project Cost:** \$10,600,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 1,000     | 800       | 200       | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | Earmark HP       |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 4,720     | 4,248     | 472       | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | HSIP             |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 3,120     | 1,000     | 2,120     | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | STP Flex         |
| ADVCON | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,496     | -1,496    | 0                    | 0       | 0        | 0     | 0       | 0     | STP Flex         |

**OS5 Farrington Highway (Route 93), Intersection Improvements, Nanakuli Avenue (Route 8744)**



**Project Description:**

Construct intersection improvements on Farrington Highway, such as a left-turn lane onto Nanakuli Avenue, roadway widening, resurfacing, roadway excavation, drainage, traffic signals, and landscaping.

**Project Website:** None

**Neighborhood(s):** Nanakuli-Maili

**Estimated Total Project Cost:** \$10,600,000  
*(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 5,720     | 5,148     | 572       | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | HSIP             |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 3,120     | 1,000     | 2,120     | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | STP Flex         |
| ADVCON | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,496     | -1,496    | 0                    | 0         | 0         | 0         | 0         | 0         | STP Flex         |

**OS6 Farrington Highway (Route 93), Safety Improvements, Vicinity of Leihoku Street to Kili Drive**



**Project Description:**

Install milled rumble strips on centerline and shoulders, pavement markings, striping, and signage on Farrington Highway from Leihoku Street to Kili Drive.

**Project Website:** None

**Neighborhood(s):** Waianae Coast

**Estimated Total Project Cost:** \$2,390,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 1,960     | 1,764     | 196       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | HSIP             |



**OS8 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 1C**



**Project Description:**

The project consists of the installation of closed-circuit television (CCTV) cameras, vehicle detectors, cabinets, and communication equipment. Minor interior modifications of the Interstate Route H-3 Control Center will be done to accommodate system improvements. This project will be implemented in phases.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$61,500,000  
*(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

| Phase         | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |        |          |         |       | Funding Category |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|--------|----------|---------|-------|------------------|
|               | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |        | FFY 2016 |         |       |                  |
|               | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local  | Total    | Federal | Local |                  |
| <i>Part 1</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |        |          |         |       |                  |
| CON           | 7,000     | 5,600     | 1,400     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0      | 0        | 0       | 0     | NHS              |
| <i>Part 2</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |        |          |         |       |                  |
| CON           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 8,500     | 1,800     | 6,700     | 0                    | 0       | 0      | 0        | 0       | 0     | NHS              |
| ADVCON        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 5,000   | -5,000 | 0        | 0       | 0     | NHS              |

**OS9 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 2A**



**Project Description:**

The project consists of the installation of closed-circuit television (CCTV) cameras, vehicle detectors, cabinets, and communication equipment. Minor interior modifications of the Interstate Route H-3 Control Center will be done to accommodate system improvements. This project will be implemented in phases.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$61,500,000  
*(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

| Phase         | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |    |
|---------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|----|
|               |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |    |
|               | Total (x\$1000) | 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) |                  |    |
| DES<br>Part 2 | 0               | 0                 | 0               | 1,900           | 1,520             | 380             | 0               | 0                 | 0               | 0               | 0                 | 0               | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0                | IM |
| CON           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 5,000                | 4,000             | 1,000           | 0               | 0                 | 0               | 0                | IM |

**OS10 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 2B**



**Project Description:**

The project consists of the installation of closed-circuit television (CCTV) cameras, vehicle detectors, cabinets, and communication equipment. Minor interior modifications of the Interstate Route H-3 Control Center will be done to accommodate system improvements. This project will be implemented in phases.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$61,500,000  
*(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1,980                | 1,584             | 396             | 0               | 0                 | 0               | IM               |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0                    | 0                 | 0               | 10,000          | 8,000             | 2,000           | IM               |

**OS11 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), Phase 3A**



**Project Description:**

The project consists of the installation of closed-circuit television (CCTV) cameras, vehicle detectors, cabinets, and communication equipment. Minor interior modifications of the Interstate Route H-3 Control Center will be done to accommodate system improvements. This project will be implemented in phases.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$64,000,000  
*(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                 |                   |                 |                 |                   |                 |                      |                   |                 |                 |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 2,000                | 1,600             | 400             | 0               | 0                 | 0               | IM               |

**OS12 Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway (Routes H-201 and 78), System Manager**

The System Manager will be located at the H-3 Control Center.

**Project Description:**

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

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$64,000,000  
(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| DES   | 4,000           | 3,200             | 800             | 0               | 0                 | 0               | 0               | 0                 | 0               | 2,500           | 2,250             | 250             | 0                    | 0                 | 0               | 0               | 0                 | 0               | NHS              |

**OS13 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.

**Project Website:** <http://www.fsphawaii.com>

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$18,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |       |     | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-------|-----|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           | FFY 2016  |           |       |     |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) |       |     |                  |
| CON   | 2,000     | 1,800     | 200       | 2,000     | 1,800     | 200       | 3,500     | 3,150     | 350       | 3,500     | 3,150     | 350       | 3,500                | 3,150     | 350       | 3,500     | 3,150 | 350 | NHS              |

## OS14 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.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$5,850,000  
*(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

| Phase                                      | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|
|  | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |
|  | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |
| <i>Phase 1 - Various Locations on Oahu</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |           |           |           |           |           |                  |
| CON  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 2,185                | 1,748     | 437       | 0         | 0         | 0         | HSIP             |
| <i>Phase 2</i>                             |           |           |           |           |           |           |           |           |           |           |           |           |                      |           |           |           |           |           |                  |
| DES  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 250                  | 200       | 50        | 0         | 0         | 0         | IM               |
| CON  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 3,000     | 2,400     | 600       | IM               |
| <i>Phase 3</i>                             |           |           |           |           |           |           |           |           |           |           |           |           |                      |           |           |           |           |           |                  |
| DES  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 250       | 200       | 50        | IM               |

**OS15 Interstate Route H-1 and Interstate Route H-2, and Route H-201 Destination Sign Upgrade/Replacement**



**Project Description:**

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

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$8,200,000  
*(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

| Phase          | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |     |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|-----|
|                | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |     |
|                | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |     |
| <i>Phase 1</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |     |
| CON            | 0         | 0         | 0         | 4,500     | 3,600     | 900       | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | NHS |
| <i>Phase 2</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |     |
| CON            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 2,704    | 2,434   | 270   | NHS              |     |



**OS93 Interstate Route H-1 Safety Improvements, 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.

**Project Website:** None

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

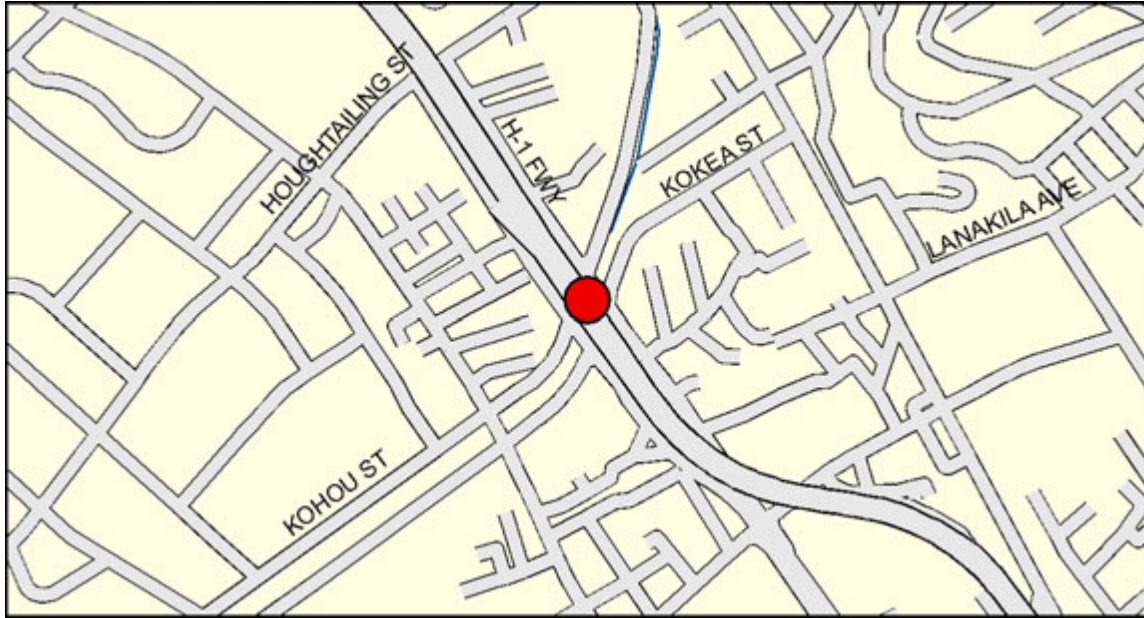
**Estimated Total Project Cost:** \$4,500,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 500             | 450               | 50              | 0                    | 0                 | 0               | 0               | 0                 | 0               | HSIP             |

**OS16 Interstate Route H-1, Bridge Rehabilitation, Kapalama Canal, Halona Street Bridge**



**Project Description:**

Rehabilitate the existing bridge.

**Project Website:** None

**Neighborhood(s):** Kalihi-Palama

**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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |   |   | Funding Category |   |   |   |   |   |   |   |               |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|---|---|------------------|---|---|---|---|---|---|---|---------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           | FFY 2016  |           |   |   |                  |   |   |   |   |   |   |   |               |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) |   |   |                  |   |   |   |   |   |   |   |               |
| DES   | 775       | 620       | 155       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0 | 0 | 0                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Bridge On/Off |

**OS88 Interstate Route H-1, Corridor Study**



**Project Description:**

Develop a comprehensive analysis study of the entire H-1 corridor, including other parallel State and City facilities to identify future congestion and capacity improvements and priorities for the corridor.

Bicycle and pedestrian facilities will be included when feasible. The parallel roadways to be studied include, but are not limited to:

1. Interstate Route H-1 Freeway, Palailai Interchange to Ainakoa Avenue,
2. Farrington Highway - Palailai Interchange to Waiawa Interchange,
3. Kamehameha Highway - Waiawa Interchange to Keehi Interchange,
4. Moanalua Freeway,
5. Nimitz Highway - Keehi to Ala Moana Boulevard,
6. Dillingham Boulevard,
7. Vineyard Boulevard,
8. Kapiolani Boulevard,
9. King Street, and
10. Beretania Street.

**Project Website:** None

**Neighborhood(s):** Various Locations

**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

| Phase | FFY 2011  |           |           |           |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |     | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----|------------------|
|       | Total     |           | Federal   |           | Local     | Total     |           | Federal   |           | Local     | Total     |           | Federal   |           | Local     | Total                |           | Federal   |           | Local     |     |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |     |                  |
| PLN   | 0         | 0         | 0         | 2,500     | 2,000     | 500       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | NHS |                  |

**OS19 Interstate Route H-1, Guardrail and Shoulder Improvements, Kapiolani Interchange to Ainakoa Avenue**



**Project Description:**

Install and/or upgrade existing guardrails, crash cushions, and concrete barriers to meet current standards.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

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

**Estimated Total Project Cost:** \$6,750,000  
(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

| Phase | FFY 2011  |           |           |           |           |           | FFY 2012  |           |           |           |           |           | FFY 2013  |           |           |           |           |           | FFY 2014  |           |           |           |           |           | FOR INFORMATION ONLY |           |           |           |           |   | Funding Category |       |       |   |   |   |    |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|---|------------------|-------|-------|---|---|---|----|
|       | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total                |           | Federal   |           | Local     |   |                  |       |       |   |   |   |    |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |   |                  |       |       |   |   |   |    |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0 | 6,240            | 4,992 | 1,248 | 0 | 0 | 0 | IM |

**OS20 Interstate Route H-1, Guardrail and Shoulder Improvements, Middle Street (Route 7415) to Punchbowl Street (Route 7516)**



**Project Description:**

Install and/or upgrade existing guardrails, crash cushions, and concrete barriers to meet current standards.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Kalihi-Palama, Downtown, Nuuanu-Punchbowl

**Estimated Total Project Cost:** \$5,700,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |   |   | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|---|---|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           | FFY 2016  |           |   |   |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) |   |   |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 5,410                | 4,328     | 1,082     | 0         | 0 | 0 | IM               |

**OS21 Interstate Route H-1, Highway Lighting Improvements, Kaimakani Overpass to Gulick Avenue**



**Project Description:**

Upgrade/replace existing freeway lighting.

**Project Website:** None

**Neighborhood(s):** Aiea, Airport, Kalihi-Palama, Aliamanu-Salt Lake-Foster Village

**Estimated Total Project Cost:** \$14,000,000  
(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

| Phase          | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |        | Funding Category |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|--------|------------------|
|                | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |        |                  |
|                | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local  |                  |
| <i>Phase 1</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |        |                  |
| CON            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 6,997                | 1,020   | 5,977 | 0        | 0       | 0      | IM               |
| ADVCON         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 4,578   | -4,578 | IM               |

**OS83 Interstate Route H-1, Installation of Access Control, Makakilo Interchange to Vicinity of H-1/H-2 Interchange**



**Project Description:**

Replace and/or install upgraded access control chain link fence along Interstate Route H-1. This includes replacing existing barbed wire, that was installed to keep livestock out of the freeway. With the change in land use and diversified development in the area, fencing will be upgraded to meet current land use conditions. The scope of the project does not include bicycle or pedestrian elements.

**Project Website:** None

**Neighborhood(s):** Makakilo-Kapolei-Honokai Hale

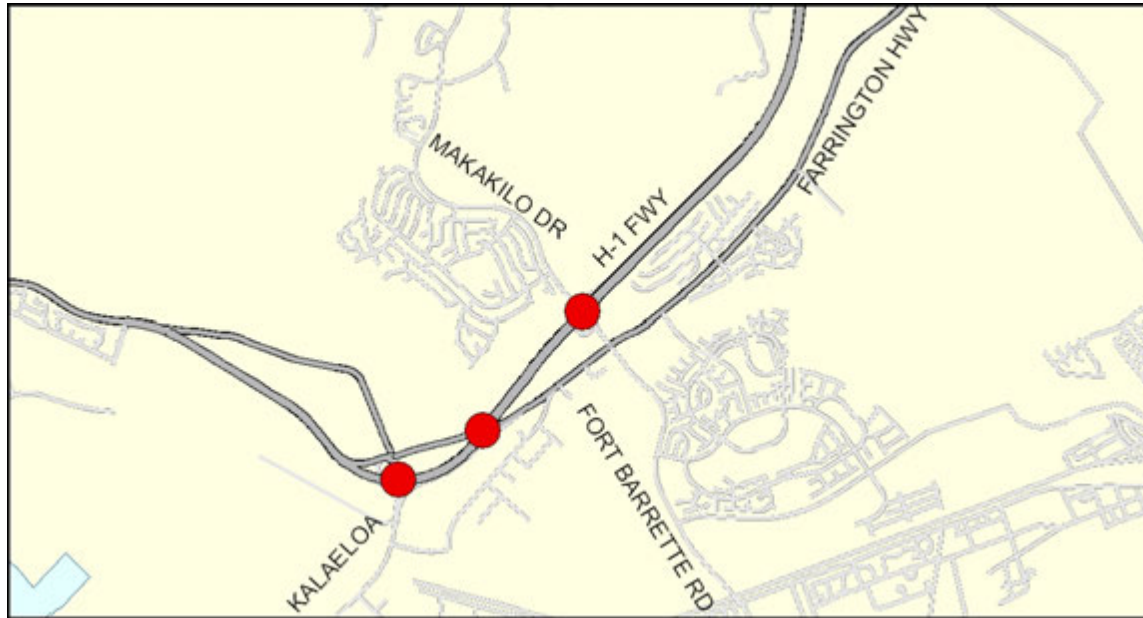
**Estimated Total Project Cost:** \$2,750,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           |           |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |           |           |           |           |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|
|       | Total     |           | Federal   |           | Local     | Total     |           | Federal   |           | Local     | Total     |           | Federal   |           | Local     | Total                |           | Federal   |           | Local     | Total     |                  | Federal   |           | Local     |           |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |
| CON   | 2,500     | 2,250     | 250       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | 0         | STP Flex  |

## OS22 Interstate Route H-1, Kapolei Interchange Complex



### Project Description:

Phase 1 involved adding a westbound ramp from Makakilo Drive to the H-1 west and installing eastbound on- and off-ramps for the new Kapolei Interchange. Phase 2 will complete the construction of the Wakea Street Separation and its associated ramps. Phases 3 and 4 involve completing the Kapolei Interchange Complex, including completing construction of the Palailai and Makakilo Interchanges.

This project was called "Interstate H-1, Addition and Modification of Freeway Access, Makakilo Interchange to Palailai Interchange (Kapolei Interchange Complex)" in previous TIP documents.

**Project Website:** None

**Neighborhood(s):** Makakilo-Kapolei-Honokai Hale

**Estimated Total Project Cost:** \$60,000,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

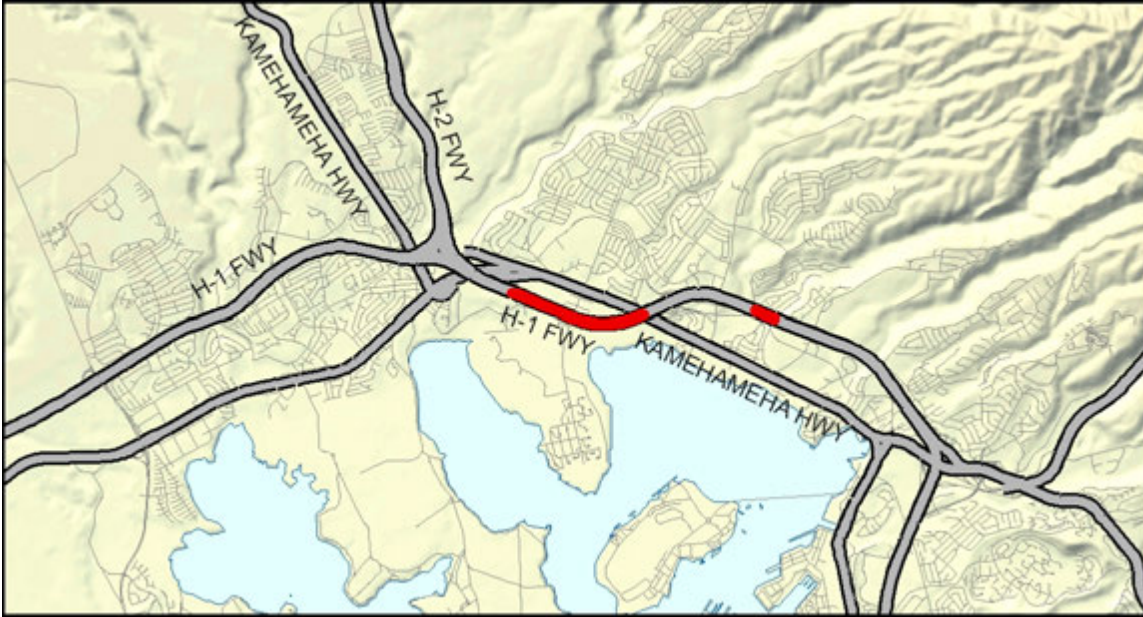
**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase          | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |        |          |         |         | Funding Category |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|--------|----------|---------|---------|------------------|
|                | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |        | FFY 2016 |         |         |                  |
|                | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local  | Total    | Federal | Local   |                  |
| <i>Phase 2</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |        |          |         |         |                  |
| CON            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 4,800                | 4,300   | 500    | 0        | 0       | 0       | IM Discret       |
| CON            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 55,200               | 24,680  | 30,520 | 0        | 0       | 0       | NHS              |
| ADVCON         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0      | 0        | 13,000  | -13,000 | NHS              |
| <i>Phase 3</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |        |          |         |         |                  |
| DES            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0      | 571      | 457     | 114     | NHS              |



**OS24 Interstate Route H-1, Pearl City and Waimalu Viaduct Improvements, Phase 2**



**Project Description:**

Replace, repair, and/or strengthen the Pearl City and Waimalu Viaduct concrete deck and other structural components, including guardrails. Project will be implemented in 5 phases.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Pearl City, Aiea, Waipahu

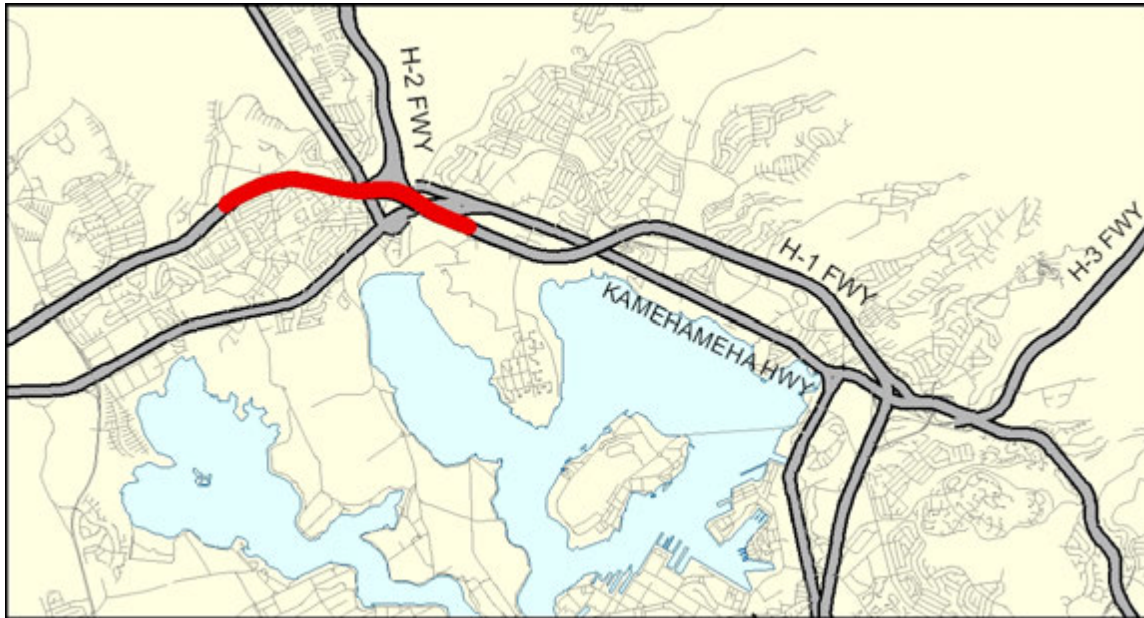
**Estimated Total Project Cost:** \$100,000,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0                    | 0                 | 0               | 23,250          | 20,925            | 2,325           | IM               |

**OS25 Interstate Route H-1, PM Contraflow, Westbound, Waiawa Interchange Improvements, Phase I**



**Project Description:**

This is the first increment of the PM contraflow project. Add a westbound lane, for a total of four lanes, through the Waiawa Interchange. Phase 1 involves restriping the Interstate H-1 from the Waiawa Interchange to Waikaele. The PM Contraflow project will construct a new contraflow lane to increase the westbound capacity in the PM peak condition by one lane from Radford Drive overpass to Waikaele.

**Project Website:** None

**Neighborhood(s):** Waipahu

**Estimated Total Project Cost:** \$167,000,000  
*(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

| Phase | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|-------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 17,525          | 15,775            | 1,750           | IM               |

**OS90 Interstate Route H-1, Rehabilitation, Middle Street to Vicinity of Ward Avenue**



**Project Description:**

Cold plane and resurface with asphalt concrete pavement; reconstruct weakened pavement areas; restripe to provide four (4)-10 foot through lanes; raise the top of the concrete median barrier; adjust drain inlets; upgrade guardrail end connections; install new highway lighting; and other miscellaneous work to accommodate the extra through lane.

**Project Website:** None

**Neighborhood(s):** Kalihi-Palama, Downtown, Ala Moana-Kakaako

**Estimated Total Project Cost:** \$36,000,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 35,000    | 26,500    | 8,500     | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | NHS              |
| ADVCON | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 5,000     | -5,000    | 0                    | 0         | 0         | 0         | 0         | 0         | NHS              |

**OS27 Interstate Route H-1, Waiawa Interchange, Westbound, Waipahu Off-Ramp Improvements**



**Project Description:**

Widen the westbound Waipahu off-ramp from one to two lanes.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Waipahu

**Estimated Total Project Cost:** \$24,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 3,432 | 2,745   | 687   | NHS              |

**OS28 Interstate Route H-3, Safety Improvements, Vicinity of Kamehameha Highway Off-Ramp to Kaneohe Marine Corps Base Hawaii**



**Project Description:**

Project involves improvements such as the installation of milled rumble strips on shoulders, pavement markings, and signage.

**Project Website:** None

**Neighborhood(s):** Kaneohe, Kailua

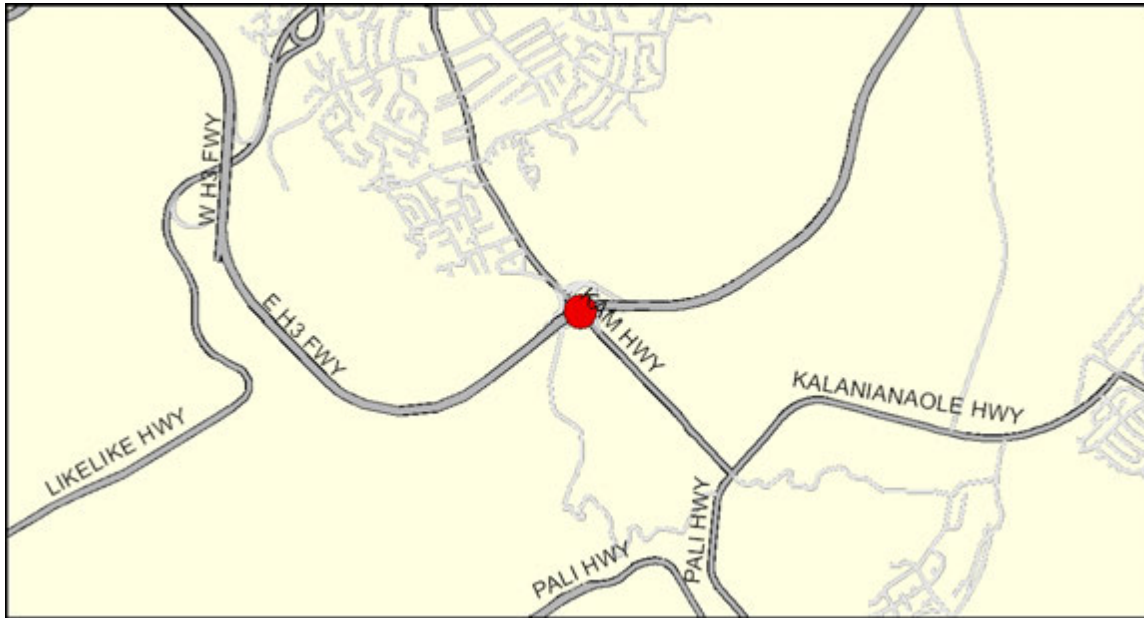
**Estimated Total Project Cost:** \$1,750,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |      |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |      |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |      |
| DES   | 150       | 135       | 15        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | HSIP |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 1,600     | 1,440     | 160       | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | HSIP |

**OS29 Interstate Route H-3, Seismic Retrofit, Halekou Interchange, Structures 1, 2, and 3**



**Project Description:**

Retrofit the interchange structures to meet current seismic standards.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Kaneohe

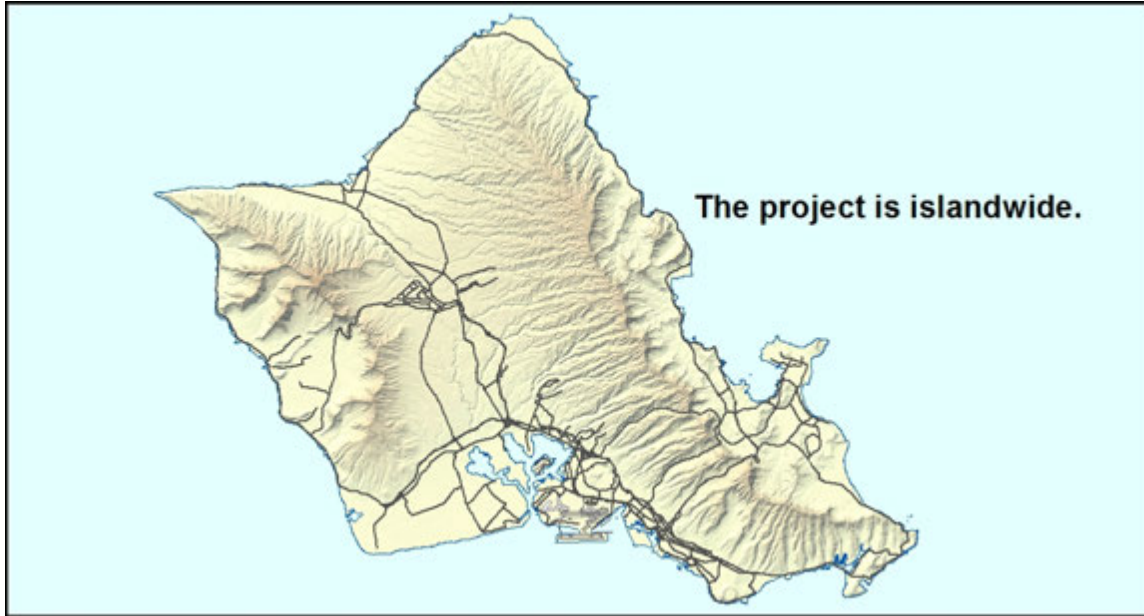
**Estimated Total Project Cost:** \$3,500,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 1,080    | 864     | 216   | Bridge On/Off    |

**OS92 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.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$1,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| OPR   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 285       | 255       | 30        | 285                  | 255     | 30       | 285   | 255     | 30    | IM               |

**OS84 Kalanianaʻole Highway (Route 72) Bicycle Improvements, Waimanalo Beach Park to Makai Pier**



**Project Description:**

Improve bike route on Kalanianaʻole Highway, from Huli Street to Makai Pier. The scope of the project includes providing shared-use shoulders for bicyclists and pedestrians.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Waimanalo

**Estimated Total Project Cost:** \$3,283,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

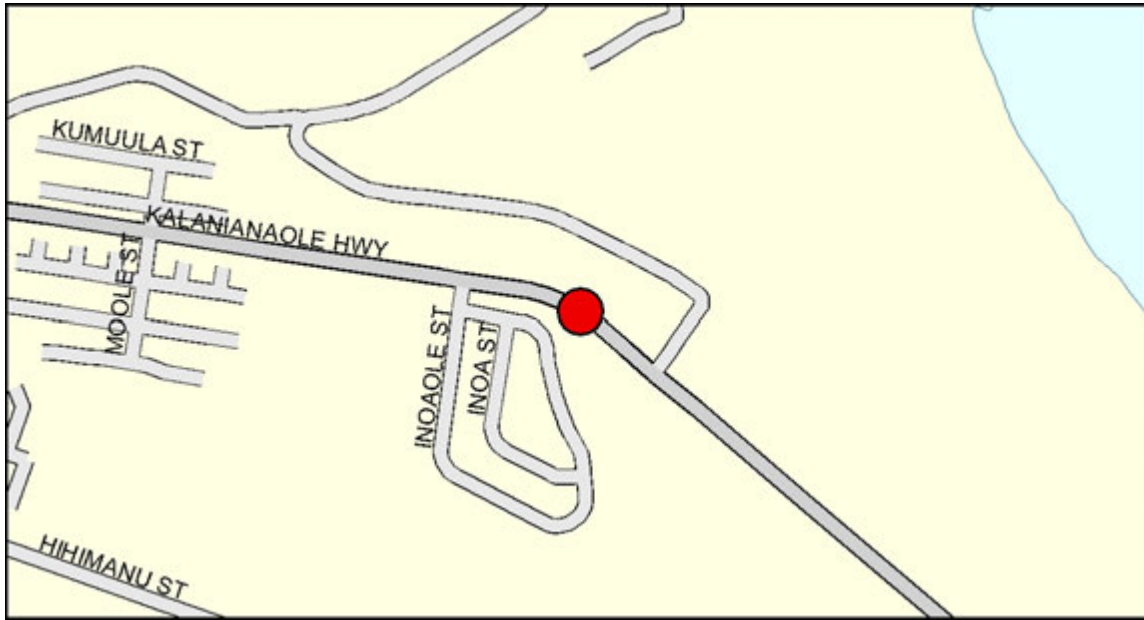
**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 250                  | 200               | 50              | 0               | 0                 | 0               | Earmark HP       |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 2,453                | 1,962             | 491             | 0               | 0                 | 0               | Enhance          |



**OS33 Kalaniana'ole Highway (Route 72), Bridge Replacement, Inoaole Stream Bridge, Waimanalo**



**Project Description:**

Replace the existing bridge.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Waimanalo

**Estimated Total Project Cost:** \$10,900,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 9,360                | 7,488   | 1,872    | 0     | 0       | 0     | STP Flex         |

**OS34 Kalanianaʻole Highway (Route 72), Improvements, Olomana Golf Course to Waimanalo Beach Park, Phase I**



**Project Description:**

Phase I involves constructing traffic operational and safety improvements on Kalanianaʻole Highway from Olomana Golf Course to Poalima Street. Project includes turning lanes, bus pullouts, and lighting improvements.

**Project Website:** None

**Neighborhood(s):** Waimanalo, Kailua

**Estimated Total Project Cost:** \$41,630,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 13,520    | 2,000     | 11,520    | 0                    | 0       | 0        | 0     | 0       | 0     | NHS              |
| ADVCON | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 8,816   | -8,816   | 0     | 0       | 0     | NHS              |

**OS35 Kalanianaʻole Highway (Route 72), Improvements, Olomana Golf Course to Waimanalo Beach Park, Phase II**



**Project Description:**

Phase II involves constructing traffic operational and safety improvements on Kalanianaʻole Highway, from Poalima Street to Aloiloi Street. Project includes turning lanes, bus pullouts, and lighting improvements.

**Project Website:** None

**Neighborhood(s):** Waimanalo

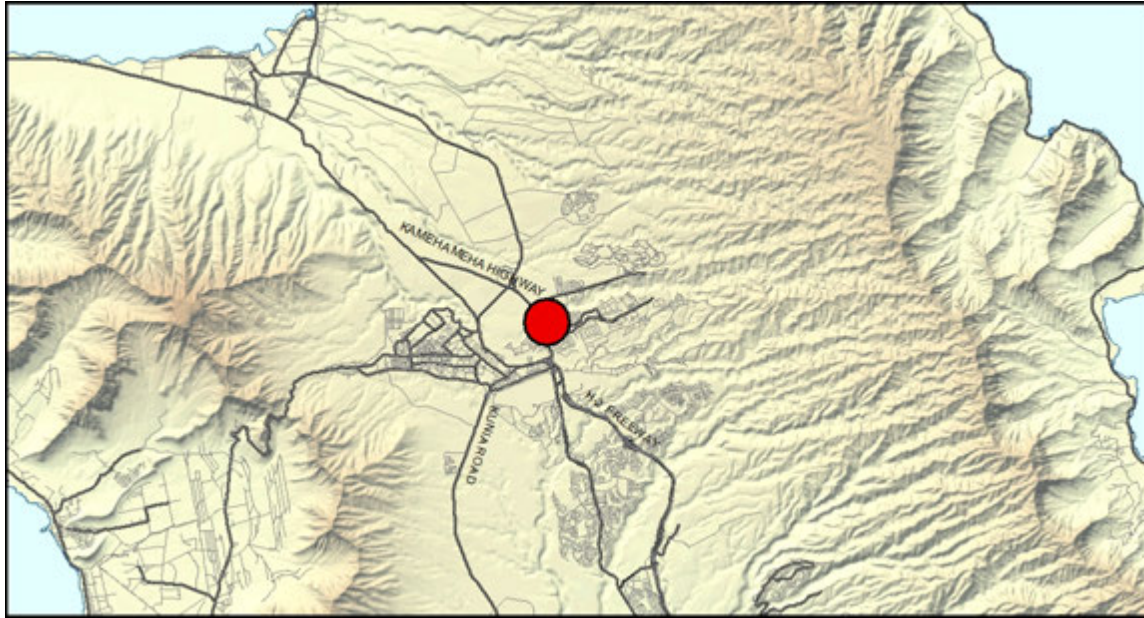
**Estimated Total Project Cost:** \$41,630,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 918                  | 734     | 184      | 0     | 0       | 0     | NHS              |

**OS94 Kamehameha Highway (Route 80), Repair and Repaint of Karsten Thot Bridge**



**Project Description:**

Repair deteriorated steel bridge framing and connections, repair concrete cracks and spalls in concrete deck slab and abutments, repaint steel bridge, and set up temporary traffic controls.

**Project Website:** None

**Neighborhood(s):** Wahiawa

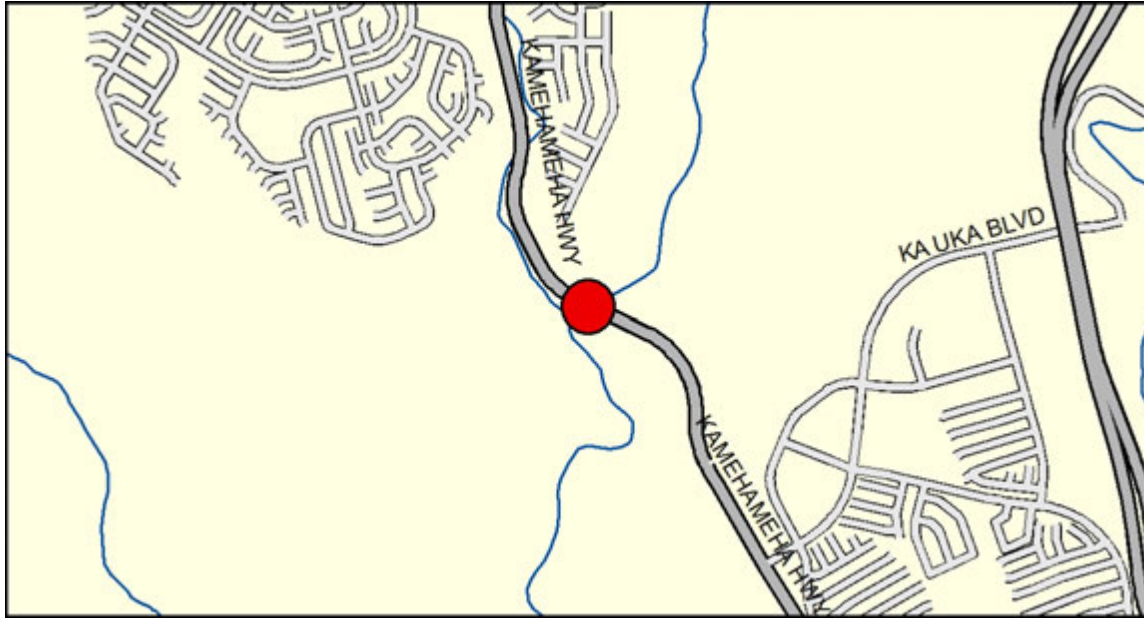
**Estimated Total Project Cost:** \$9,000,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 8,100     | 6,480     | 1,620     | 0                    | 0       | 0        | 0     | 0       | 0     | Bridge On/Off    |

**OS99 Kamehameha Highway (Route 99), Bridge Rehabilitation Kipapa Stream (Roosevelt) Bridge**



**Project Description:**

Rehabilitate the existing bridge on Kamehameha Highway (Route 99)

**Project Website:**

**Neighborhood(s):** Mililani-Waipio-Melemanu

**Estimated Total Project Cost:** \$19,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |   | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|---|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           | FFY 2016  |           |           |   |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |   |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,600     | 1,280     | 320       | 0                    | 0         | 0         | 0         | 0         | 0 | Bridge On/Off    |

**OS40 Kamehameha Highway, Bridge Rehabilitation, Makaua Stream Bridge**



**Project Description:**

Rehabilitate the existing 44-foot long bridge on Kamehameha Highway (Route 83) by widening and strengthening to meet current State standards.

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$5,600,000  
*(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| PREROW | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 104                  | 83      | 21    | 0        | 0       | 0     | Bridge On/Off    |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 275                  | 220     | 55    | 0        | 0       | 0     | Bridge On/Off    |

**OS37 Kamehameha Highway, Bridge Replacement, Kaipapau Stream Bridge**



**Project Description:**

Replace the existing bridge on Kamehameha Highway (Route 83).

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$22,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 16,225               | 12,980  | 3,245 | 0        | 0       | 0     | Bridge On/Off    |

**OS43 Kamehameha Highway, Bridge Replacement, Kaluanui Stream Bridge**



**Project Description:**

Replace the existing bridge on Kamehameha Highway (Route 83).

**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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |               |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|---------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |               |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |               |
| PREROW | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 53        | 43        | 10        | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Bridge On/Off |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 612                  | 490     | 122   | 0        | 0       | 0     | 0                | Bridge On/Off |



**OS45 Kamehameha Highway, Bridge Replacement, Kawela Stream Bridge**



**Project Description:**

Replace the existing bridge on Kamehameha Highway (Route 83).

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$10,700,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 9,735 | 7,788   | 1,947 | Bridge On/Off    |

**OS39 Kamehameha Highway, Bridge Replacement, Laieloa Stream Bridge**



**Project Description:**

Replace the existing concrete slab bridge on Kamehameha Highway (Route 83) in the vicinity of Laie.

**Project Website:** None

**Neighborhood(s):** Koolauloa

**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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |               |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|---------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |               |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |               |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 193       | 155       | 38        | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Bridge On/Off |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 8,775                | 7,020   | 1,755 | 0        | 0       | 0     | Bridge On/Off    |               |

**OS48 Kamehameha Highway, Bridge Replacement, South Kahana Stream Bridge**



**Project Description:**

Replace the existing bridge on Kamehameha Highway (Route 83).

**Project Website:** None

**Neighborhood(s):** Koolauloa

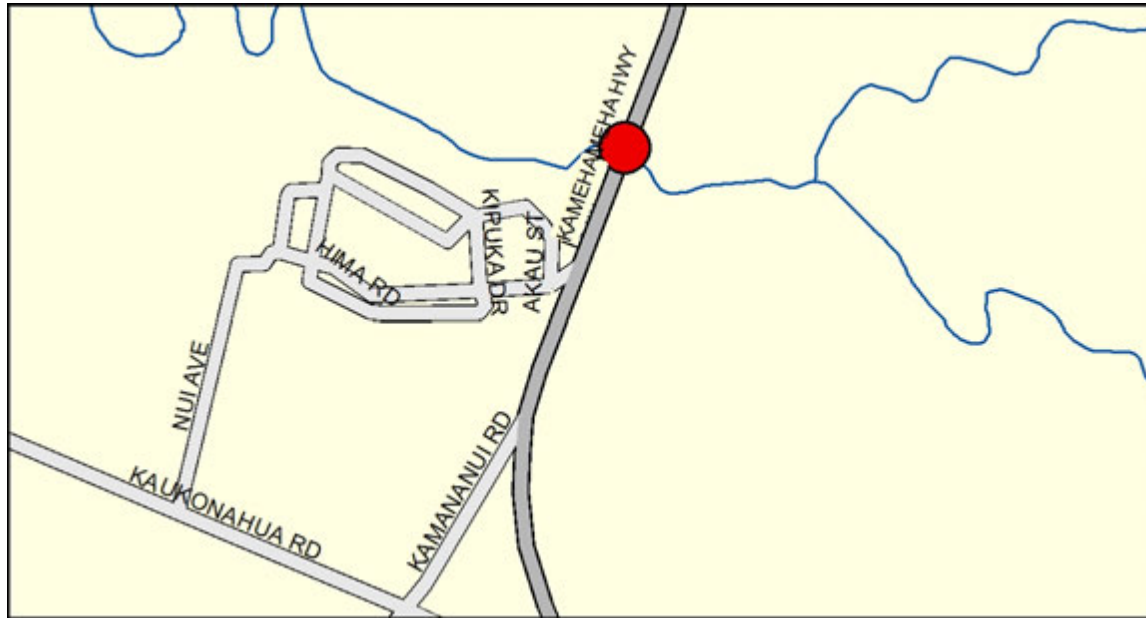
**Estimated Total Project Cost:** \$14,000,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |               |     |     |     |   |   |   |   |   |   |               |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|---------------|-----|-----|-----|---|---|---|---|---|---|---------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |               |     |     |     |   |   |   |   |   |   |               |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |               |     |     |     |   |   |   |   |   |   |               |
| PREROW | 0         | 0         | 0         | 100       | 80        | 20        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | Bridge On/Off |     |     |     |   |   |   |   |   |   |               |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0             | 984 | 787 | 197 | 0 | 0 | 0 | 0 | 0 | 0 | Bridge On/Off |

## OS49 Kamehameha Highway, Bridge Replacement, Upper Poamoho Stream Bridge



**Project Description:**

Replace the existing multi-girder reinforced bridge on Kamehameha Highway (Route 99) in the vicinity of Wahiawa.

**Project Website:** None

**Neighborhood(s):** Wahiawa, North Shore

**Estimated Total Project Cost:** \$24,600,000  
*(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| PREROW | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 104                  | 82      | 22    | 0        | 0       | 0     | Bridge On/Off    |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,125                | 865     | 260   | 0        | 0       | 0     | Earmark HP       |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 17,300   | 13,840  | 3,460 | Bridge On/Off    |

## OS50 Kamehameha Highway, Bridge Replacement, Waiahole Stream Bridge



**Project Description:**

Replace the existing concrete structure on Kamehameha Highway (Route 83).

Bicycle and pedestrian facilities will be included when feasible.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Kahaluu

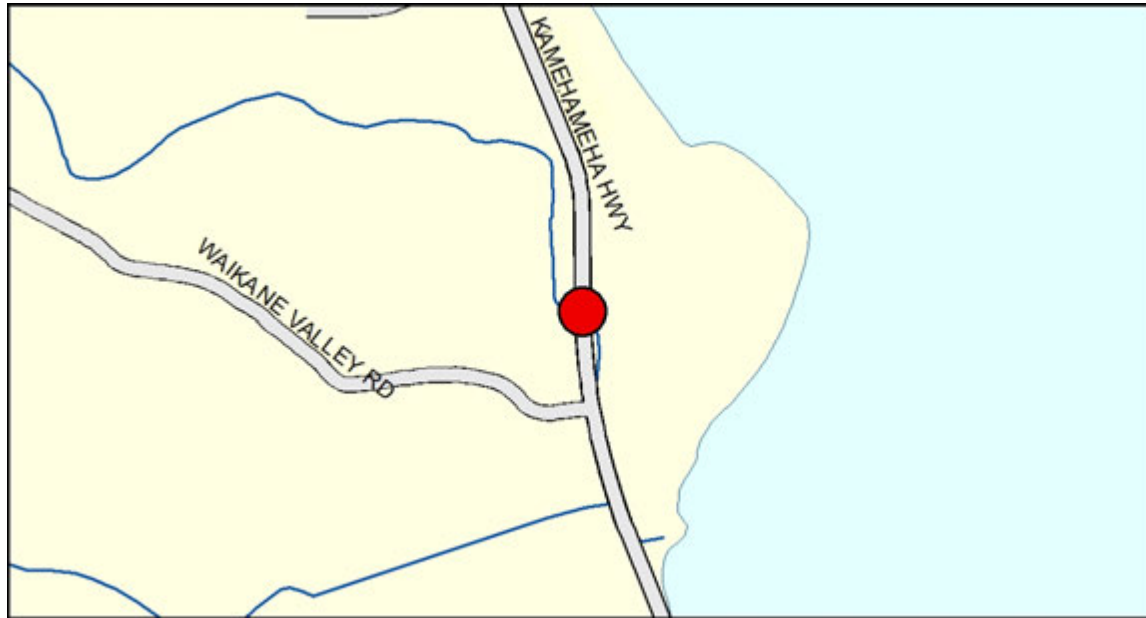
**Estimated Total Project Cost:** \$13,000,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase  | FFY 2011        |                   |                 |                 |                   |                 | FFY 2012        |                   |                 |                 |                   |                 | FFY 2013        |                   |                 |                 |                   |                 | FFY 2014      |  |  |  |  |  | FOR INFORMATION ONLY |  |  |  |  |  | Funding Category |
|--------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|---------------|--|--|--|--|--|----------------------|--|--|--|--|--|------------------|
|        | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |               |  |  |  |  |  |                      |  |  |  |  |  |                  |
|        | Total (x\$1000) | 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) |               |  |  |  |  |  |                      |  |  |  |  |  |                  |
| PREROW | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 108             | 85                | 23              | 0               | 0                 | 0               | Bridge On/Off |  |  |  |  |  |                      |  |  |  |  |  |                  |
| ROW    | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 540             | 432               | 108             | 0               | 0                 | 0               | Bridge On/Off |  |  |  |  |  |                      |  |  |  |  |  |                  |
| CON    | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 11,253          | 1,000             | 10,253          | Bridge On/Off |  |  |  |  |  |                      |  |  |  |  |  |                  |

**OS51 Kamehameha Highway, Bridge Replacement, Waikane Stream Bridge**



**Project Description:**

Replace the existing 44-foot long bridge on Kamehameha Highway (Route 83) with a wider and stronger bridge to meet current State standards.

**Project Website:** None

**Neighborhood(s):** Kahaluu

**Estimated Total Project Cost:** \$8,000,000  
*(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |               |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|---------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |               |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |               |
| PREROW | 0         | 0         | 0         | 100       | 80        | 20        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Bridge On/Off |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 265       | 212       | 53        | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Bridge On/Off |

**OS41 Kamehameha Highway, Bridge Replacement, Waipililo Stream Bridge**



**Project Description:**

Replace the existing concrete T-bridge on Kamehameha Highway (Route 83) in the vicinity of Hauula.

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$10,000,000  
*(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |               |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|---------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |               |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |               |
| PREROW | 200       | 160       | 40        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Bridge On/Off |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 260       | 208       | 52        | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Bridge On/Off |

**OS56 Kamehameha Highway, Rockfall Protection, Waimea Bay**



**Project Description:**

Initiate rockfall mitigation measures along Kamehameha Highway (Route 83) at Waimea Bay (milepost 5.4 to milepost 5.52).

**Project Website:** None

**Neighborhood(s):** North Shore

**Estimated Total Project Cost:** \$11,100,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |     |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|-----|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |     |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |     |
| PREROW | 0         | 0         | 0         | 50        | 40        | 10        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | NHS |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 470                  | 376     | 94    | 0        | 0       | 0     | NHS              |     |
| CON    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 9,690    | 7,752   | 1,938 | NHS              |     |



**OS58 Kamehameha Highway, Safety Improvements, Kahana Valley Road to Kaaawa Bridge**



**Project Description:**

Install milled rumble strips on centerline and shoulders, check superelevation along entire segment, and install pavement markings, striping, and signage on Kamehameha Highway (Route 83) from Kahana Valley Road to Kaaawa Bridge.

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$1,650,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,560     | 1,248     | 312       | 0                    | 0       | 0        | 0     | 0       | 0     | HSIP             |

**OS62 Kamehameha Highway, Safety Improvements, Kahekili Highway to Vicinity of Waikane Valley Road**



**Project Description:**

Install milled rumble strips on centerline and shoulders, check superelevation along entire segment, and install pavement markings, striping, and signage on Kamehameha Highway (Route 83) from Kahekili Highway (Route 83) to the vicinity of Waikane Valley Road.

**Project Website:** None

**Neighborhood(s):** Kahaluu

**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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 2,550                | 2,295   | 255      | 0     | 0       | 0     | HSIP             |

**OS60 Kamehameha Highway, Safety Improvements, Vicinity of Pohuehue Road to Waikane Valley Road**



**Project Description:**

Install milled rumble strips on centerline and shoulders; assess superelevation (to determine treatment) along entire segment; widen shoulders; improve drainage; and install guardrail, end treatments, pavement markings, and signage along Kamehameha Highway (Route 83) from the vicinity of Pohuehue Road (milepost 28.9) to Waikane Valley Road (milepost 33.8).

**Project Website:** None

**Neighborhood(s):** Koolauloa, Kahaluu

**Estimated Total Project Cost:** \$1,200,000  
*(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

| Phase | FFY 2011        |                   |                 |                 |                   |                 | FFY 2012        |                   |                 |                 |                   |                 | FFY 2013        |                   |                 |                 |                   |                 | FFY 2014 |      |  |  |  |  | FOR INFORMATION ONLY |  |  |  |  |  | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------|------|--|--|--|--|----------------------|--|--|--|--|--|------------------|
|       | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |          |      |  |  |  |  |                      |  |  |  |  |  |                  |
|       | Total (x\$1000) | 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) |          |      |  |  |  |  |                      |  |  |  |  |  |                  |
| DES   | 200             | 180               | 20              | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0        | HSIP |  |  |  |  |                      |  |  |  |  |  |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1,000           | 900               | 100             | 0               | 0                 | 0               | 0               | 0                 | 0               | 0        | HSIP |  |  |  |  |                      |  |  |  |  |  |                  |

**OS63 Kamehameha Highway, Shoreline Protection, Vicinity of Hauula**



**Project Description:**

Construct shoreline protection measures for areas in Hauula along Kamehameha Highway (Route 83) susceptible to ocean erosion due to high wave action.

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$6,500,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| DES   | 700       | 560       | 140       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | NHS              |

**OS64 Kamehameha Highway, Shoreline Protection, Vicinity of Kaaawa**



**Project Description:**

Construct shoreline protection measures for areas in Kaaawa along Kamehameha Highway (Route 83) susceptible to ocean erosion due to high wave action.

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$11,800,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| DES   | 700       | 560       | 140       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | NHS              |

**OS65 Kamehameha Highway, Shoreline Protection, Vicinity of Punaluu**



**Project Description:**

Construct shoreline protection measures for areas in Punaluu along Kamehameha Highway (Route 83) susceptible to ocean erosion due to high wave action.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$7,750,000  
*(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 6,885                | 5,508             | 1,377           | 0               | 0                 | 0               | NHS              |

**OS67 Kamehameha Highway, 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.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** North Shore

**Estimated Total Project Cost:** \$6,750,000  
*(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 6,240                | 4,992             | 1,248           | 0               | 0                 | 0               | NHS              |

**OS98 Kamehameha Highway (Route 83), Bridge Replacement Hoolapa (Nanahu) Stream Bridge**



**Project Description:**

Replace the existing bridge on Kamehameha Highway (Route 83)

**Project Website:**

**Neighborhood(s):** Koolauloa

**Estimated Total Project Cost:** \$6,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,100     | 880       | 220       | 0                    | 0       | 0        | 0     | 0       | 0     |                  |



**OS91 Kualakai Parkway (Route 8930) Extension**



**Project Description:**

Extend Kualakai Parkway approximately 0.3 miles from Kapolei Parkway to Roosevelt Avenue. The design details are not yet known. Therefore, pedestrian and bicycle elements have not yet been determined.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:**

**Neighborhood(s):** Ewa

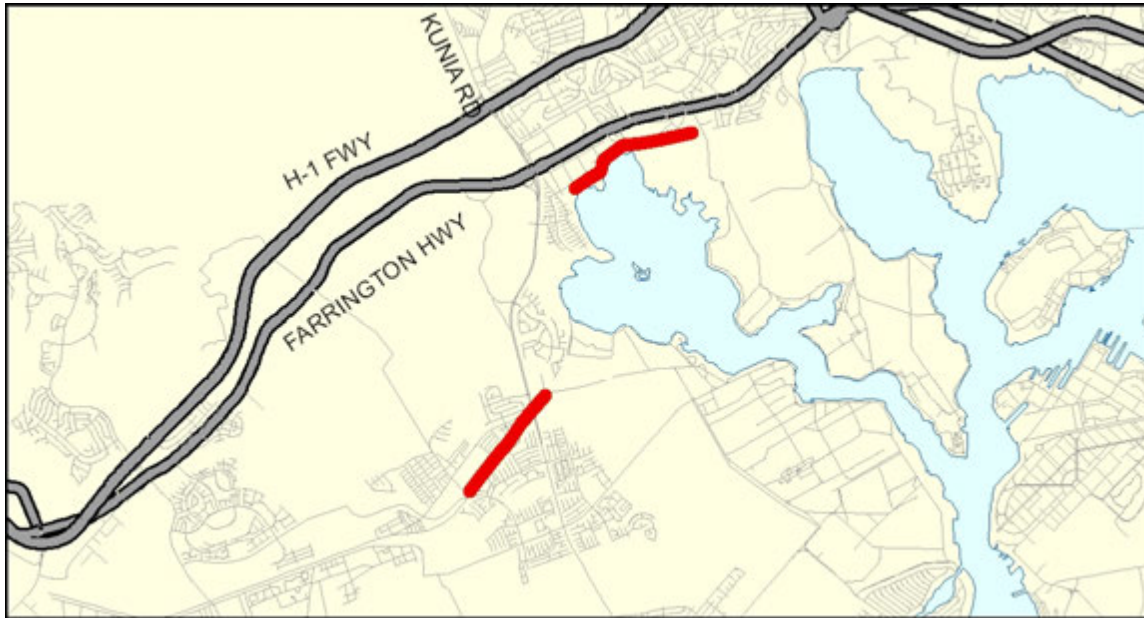
**Estimated Total Project Cost:** \$20,000,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 17,000               | 13,600            | 3,400           | 0               | 0                 | 0               | STP Flex         |

**OS69 Leeward Bikeway, Phase I, Waipio Point Access Road to Hawaiian Railway Society Train Station**



**Project Description:**

Improve the bikeway/bike path from the Waipio Point Access Road to the northeast end of the existing West Loch Bikeway and from the southwest end of the existing West Loch Bikeway to the Hawaiian Railway Society Train Station.

**Project Website:** None

**Neighborhood(s):** Waipahu, Ewa

**Estimated Total Project Cost:** \$19,000,000  
(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 9,020     | 7,216     | 1,804     | 0                    | 0       | 0        | 0     | 0       | 0     | Enhance          |

**OS70 Leeward Bikeway, Phase II, Hawaiian Railway Society Train Station to Lualualei Naval Road**



**Project Description:**

Improve the bikeway/bike path from the Hawaiian Railway Society Train Station to Lualualei Naval Road.

**Project Website:** None

**Neighborhood(s):** Ewa, Makakilo-Kapolei-Honokai Hale, Waianae Coast

**Estimated Total Project Cost:** \$19,000,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| DES    | 2,500     | 2,000     | 500       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Enhance          |
| PREROW | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 104                  | 83      | 21    | 0        | 0       | 0     | Enhance          |
| ROW    | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 2,805    | 2,244   | 561   | Enhance          |

**OS96 Middle Street (Route 7415) Pavement Reconstruction, King Street (Route 7410) to Kamehameha Highway (Route 7401)**



**Project Description:**

This is a pavement reconstruction project that will implement the use of post-tensioned precast concrete pavement panels to accelerate construction to reduce lane closures. This will replace the existing AC pavement. Other roadway items will be upgraded to current standards.

**Project Website:** None

**Neighborhood(s):** Kalihi-Palama

**Estimated Total Project Cost:** \$16,000,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 3,000     | 3,000     | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | HfL              |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 12,000    | 12,000    | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | STP Flex         |

## OS71 Moanalua Freeway (Route 78) and Interstate Route H-2, Guardrail and Shoulder Improvements



**Project Description:**

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

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$6,200,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 6,000                | 4,800   | 1,200 | 0        | 0       | 0     | NHS              |

**OS72 Moanalua Freeway (Route H-201), Highway Lighting Improvements, Halawa Heights Off-Ramp to the 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).

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Moanalua, Kalihi-Palama, Aliamanu-Salt Lake-Foster Village, Airport

**Estimated Total Project Cost:** \$8,500,000  
(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

| Phase | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|-------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| CON   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 6,000           | 4,800             | 1,200           | 0               | 0                 | 0               | NHS              |

**OS73 Moanalua Freeway (Route H-201), Highway Lighting Improvements, Halawa to the H-3 Freeway Overpass**



**Project Description:**

Upgrade/replace existing freeway lighting on Moanalua Freeway from the Ewa end of the Moanalua Freeway (milepost 0) to the Interstate Route H-3 Freeway overpass (milepost 0.73).

**Project Website:** None

**Neighborhood(s):** Aiea

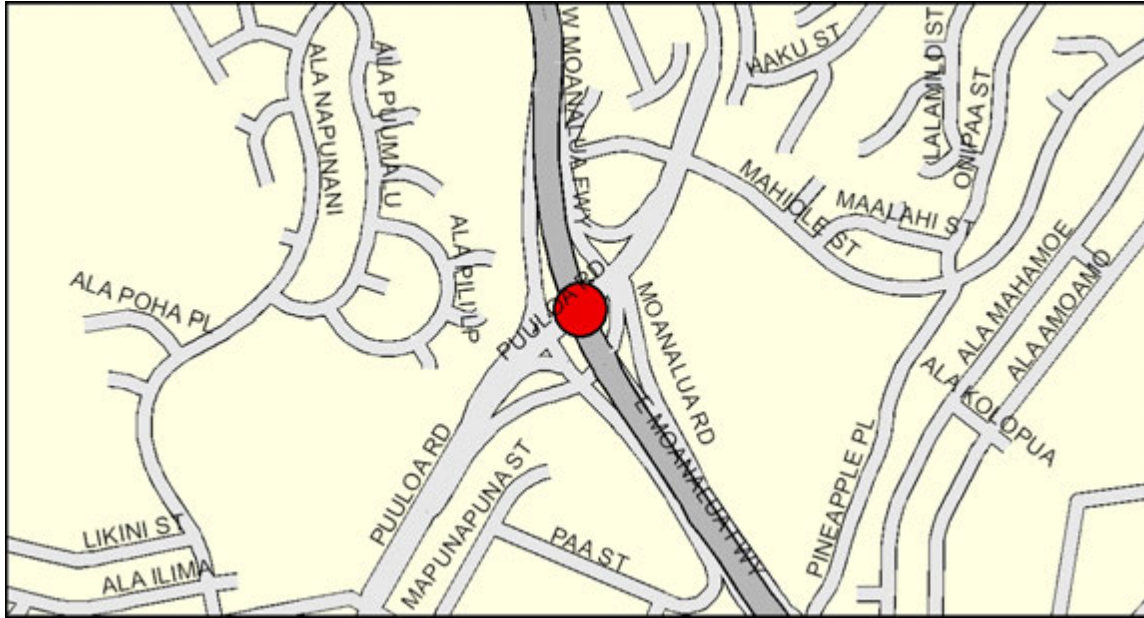
**Estimated Total Project Cost:** \$8,500,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 2,387                | 1,910   | 477   | 0        | 0       | 0     | NHS              |

**OS74 Moanalua Freeway (Route H-201), Seismic Retrofit, Puuloa Interchange, Ramp "A"**



**Project Description:**

Retrofit interchange structure to meet current seismic standards.

**Project Website:** None

**Neighborhood(s):** Airport, Moanalua, Aliamanu-Salt Lake-Foster Village

**Estimated Total Project Cost:** \$4,800,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

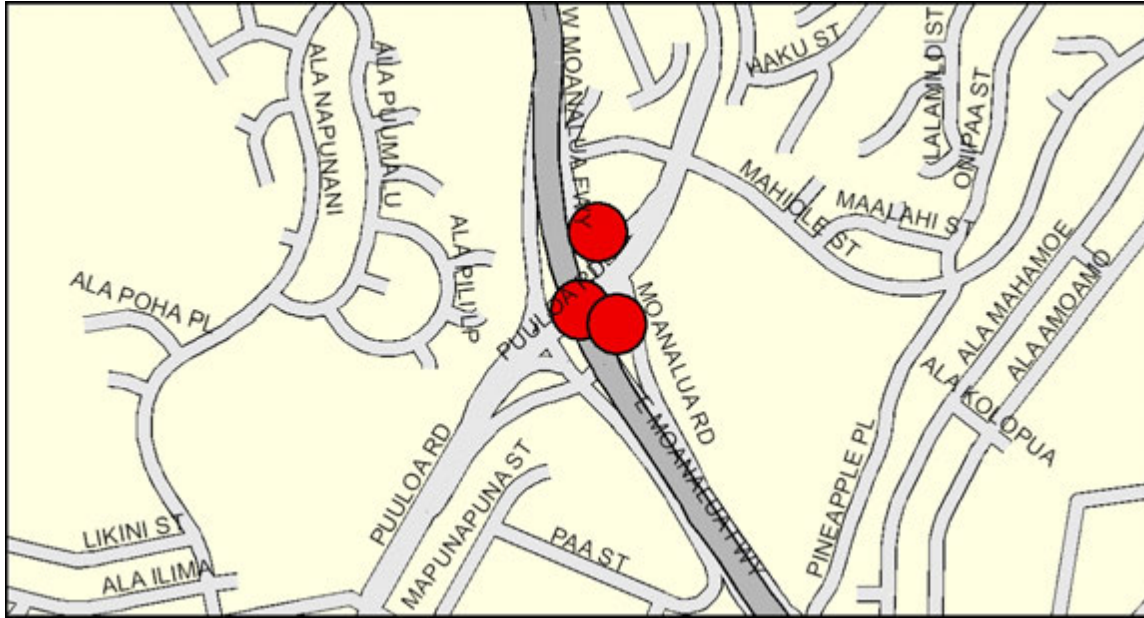
**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 3,950    | 3,160   | 790   | Bridge On/Off    |



**OS75 Moanalua Freeway (Route H-201), Seismic Retrofit, Puuloa Separation**



**Project Description:**

Retrofit interchange structure to meet current seismic standards.

This is an illustrative project (i.e., it is not funded in the 4-year TIP).

**Project Website:** None

**Neighborhood(s):** Airport, Moanalua, Aliamanu-Salt Lake-Foster Village

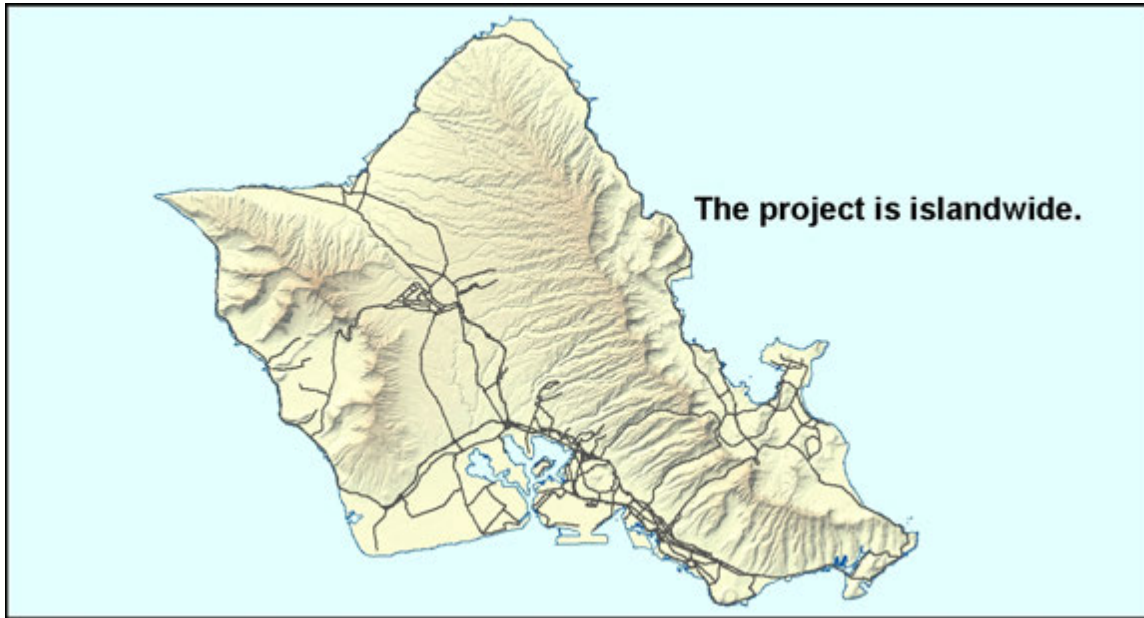
**Estimated Total Project Cost:** \$7,300,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 6,450    | 5,160   | 1,290 | Bridge On/Off    |

**OS79 Recreational Trails Program**



**Project Description:**

To develop and maintain recreational trails and trail-related facilities on Oahu for both non-motorized and motorized recreational trail uses.

**Project Website:** None

**Neighborhood(s):** Islandwide

**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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 359       | 287       | 72        | 359       | 287       | 72        | 359       | 287       | 72        | 359       | 287       | 72        | 359                  | 287     | 72    | 359      | 287     | 72    | Rec Trails Prog  |

**OS97 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. This includes auxiliary lanes to accommodate trucks, traffic controls, truck weighing infrastructure, computer hardware/software, and operator kiosk/office.

**Project Website:** None

**Neighborhood(s):** Kalihi-Palama

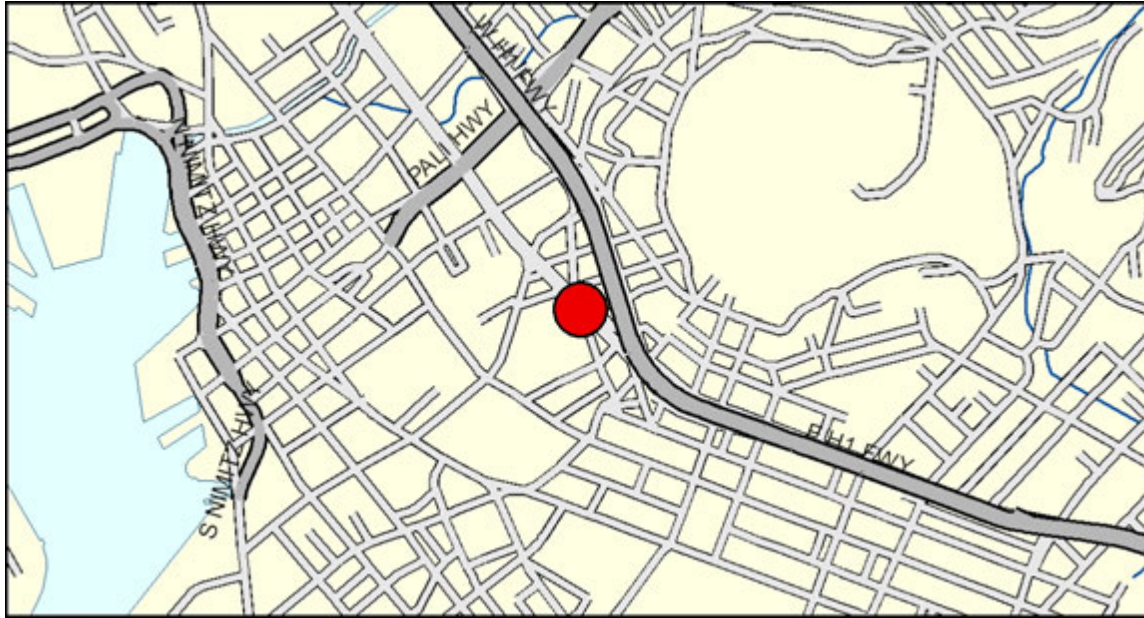
**Estimated Total Project Cost:** \$5,000,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FHWA Funded)

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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 132                  | 106               | 26              | 0               | 0                 | 0               | NHS              |
| ROW   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 128                  | 102               | 26              | 0               | 0                 | 0               | NHS              |

**OS81 Vineyard Boulevard (Route 98), Improvements, Vicinity of Queen's Medical Center**



**Project Description:**

Install a right-turn lane from Lusitana Street to the Vineyard Boulevard eastbound freeway on-ramp.

**Project Website:** None

**Neighborhood(s):** Downtown

**Estimated Total Project Cost:** \$13,000,000  
*(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 (Queen's Medical Center)

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |            |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |            |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |            |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 52        | 0         | 52        | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Local Only |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 12,730    | 2,277     | 10,453    | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | IM Discret |

**OC1 Alapai Transit Center Multi-Use Path**



**Project Description:**

Construct a multi-use path between Alapai Street and Kealamakai Street. This will serve as a connection of the multi-use path from Ewa of Alapai to Hotel Street, and will provide a path for pedestrians and bicyclists.

**Project Website:** None

**Neighborhood(s):** Ala Moana-Kakaako

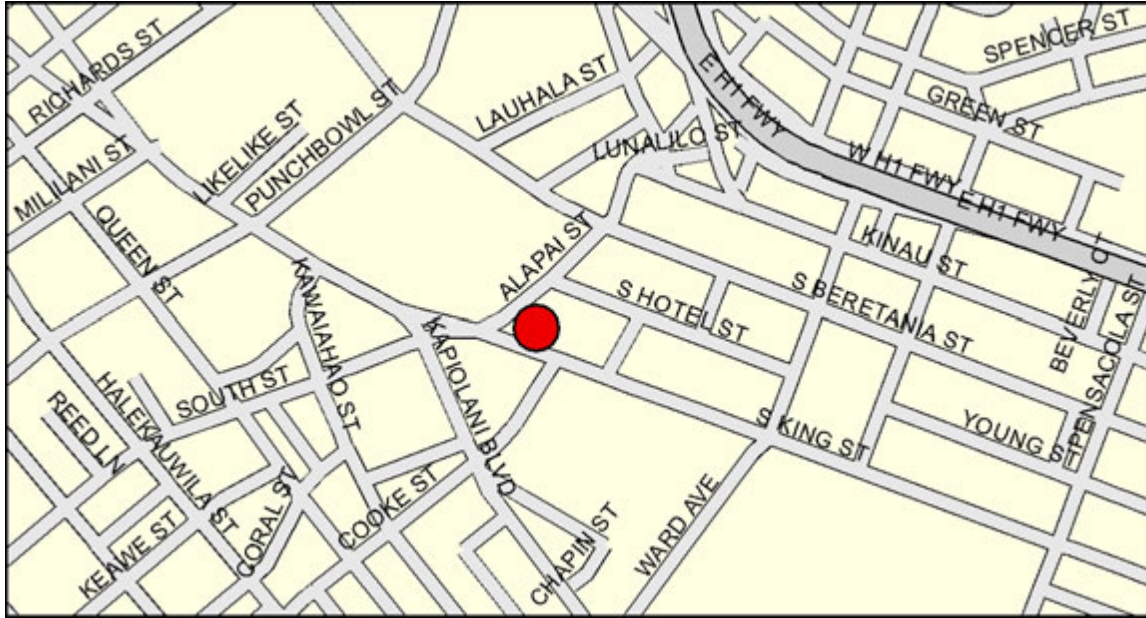
**Estimated Total Project Cost:** \$210,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

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

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |          |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|----------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |          |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |          |
| CON   | 210       | 0         | 210       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | 0                | STP Flex |

**OC2 Alapai Transportation Management Center**



**Project Description:**

The transportation management center will be a joint communication center to be built in front of 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.

**Project Website:** None

**Neighborhood(s):** Ala Moana-Kakaako

**Estimated Total Project Cost:** \$98,124,000  
(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

| Phase   | FFY 2011        |                   |                 |                 |                   |                 | FFY 2012        |                   |                 |                 |                   |                 | FFY 2013        |                   |                 |                 |                   |                 | FFY 2014        |                   |                 |                 |                   |                 | FOR INFORMATION ONLY |  |  |  |  |  | Funding Category |
|---|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|--|--|--|--|--|------------------|
|   | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                      |  |  |  |  |  |                  |
|   | Total (x\$1000) | 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) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                      |  |  |  |  |  |                  |
| <i>Architectural/Engineering Consultant</i>                                       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                      |  |  |  |  |  |                  |
| DES   | 0               | 0                 | 0               | 1,000           | 0                 | 1,000           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | Local Only           |  |  |  |  |  |                  |
| DES   | 4,500           | 4,400             | 100             | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex             |  |  |  |  |  |                  |
| <i>Management Center Building, Phase 1 - Utility Infrastructure/Off-Site Work</i> |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                      |  |  |  |  |  |                  |
| DES/CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 4,301           | 3,440             | 861             | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex             |  |  |  |  |  |                  |
| <i>Management Center Building, Phase 2 - Building/On-Site Work</i>                |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                      |  |  |  |  |  |                  |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 19,907          | 9,563             | 10,344          | 22,970          | 0                 | 22,970          | 23,208          | 0                 | 23,208          | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex             |  |  |  |  |  |                  |
| ADVCON  | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 10,914            | -10,914         | 0               | 10,370            | -10,370         | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex             |  |  |  |  |  |                  |
| <i>Parking Structure</i>  |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                      |  |  |  |  |  |                  |
| CON   | 13,375          | 0                 | 13,375          | 4,000           | 0                 | 4,000           | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | Local Only           |  |  |  |  |  |                  |
| <i>System Manager</i>   |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                      |  |  |  |  |  |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 460             | 0                 | 460             | 1               | 0                 | 1               | 1               | 0                 | 1               | 0               | 0                 | 0               | 0               | 0                 | 0               | Local Only           |  |  |  |  |  |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 2,700           | 2,160             | 540             | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | STP Flex             |  |  |  |  |  |                  |

**OC2 Alapai Transportation Management Center**

| Phase                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|-----------------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|                       | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|                       | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| <i>System Manager</i> |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| EQP                   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | 1,700           | 0                 | 1,700           | Local Only       |

## OC3 Bicycle Projects



### Project Description:

This is an ongoing islandwide program for the implementation of the Oahu Bike Plan improvements, the development of new projects, and the upgrade of existing bicycle facilities. Project locations are indicated below.

**Project Website:** [www.oahubikeplan.org](http://www.oahubikeplan.org)

**Neighborhood(s):** Islandwide

**Estimated Total Project Cost:** \$8,662,000  
(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

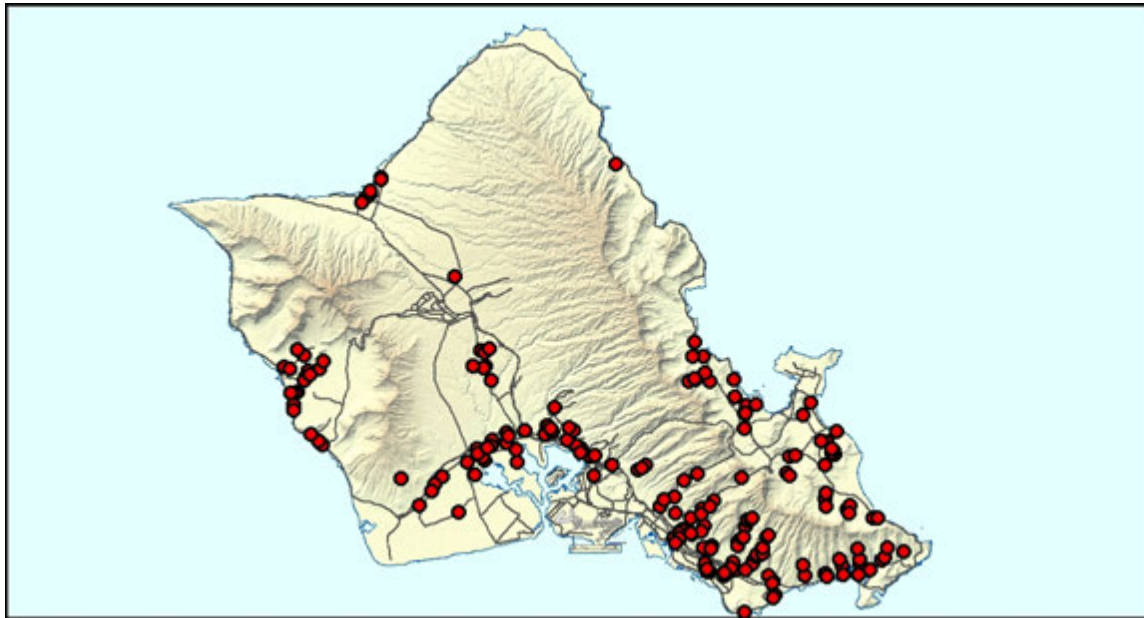
| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|   | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|   | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 10        | 0         | 10        | 0         | 0         | 0         | 10                   | 0       | 10    | 0        | 0       | 0     | Local Only       |
| <i>a. Kalaheo Avenue</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| PLN   | 1         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |
| ROW   | 1         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |
| CON   | 2,106     | 1,556     | 550       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| <i>b. Kealaolu Avenue Shoulder Improvements</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES   | 0         | 0         | 0         | 1         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON   | 0         | 0         | 0         | 620       | 496       | 124       | 190       | 0         | 190       | 250       | 200       | 50        | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| <i>c. Civic Center Bike Path Improvements</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| CON   | 0         | 0         | 0         | 325       | 260       | 65        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| <i>d. Diamond Head Road/Monsarrat Avenue/Makapuu Avenue/18th Avenue Bike Improvements</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| PLN   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| DES   | 148       | 0         | 148       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |



## OC3 Bicycle Projects

| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|   | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|   | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| <i>d. Diamond Head Road/Monsarrat Avenue/Makapuu Avenue/18th Avenue Bike Improvements</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 0         | 1         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 760       | 560       | 200       | 180       | 0         | 180       | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| <i>e. Hamakua Drive Bike Improvements</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 100       | 80        | 20        | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 800                  | 640     | 160   | 0        | 0       | 0     | STP Flex         |
| <i>f. Pearl Harbor Bike Path Improvements</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 500       | 400       | 100       | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 2,000    | 1,600   | 400   | STP Flex         |
| <i>g. Waialae Avenue Bike Lanes</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 40        | 0         | 40        | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 80        | 0         | 80        | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| <i>h. Locations to be determined</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 3         | 0         | 3         | 280                  | 160     | 120   | 250      | 200     | 50    | STP Flex         |

**OC4 Bridge Inspection and Appraisal**



**Project Description:**

Inventory, inspect, and appraise City bridges, including underwater inspection, surveys, scour survey/evaluation, and preparation of plans for bridge repairs.

**Project Website:** None

**Neighborhood(s):** Various Locations

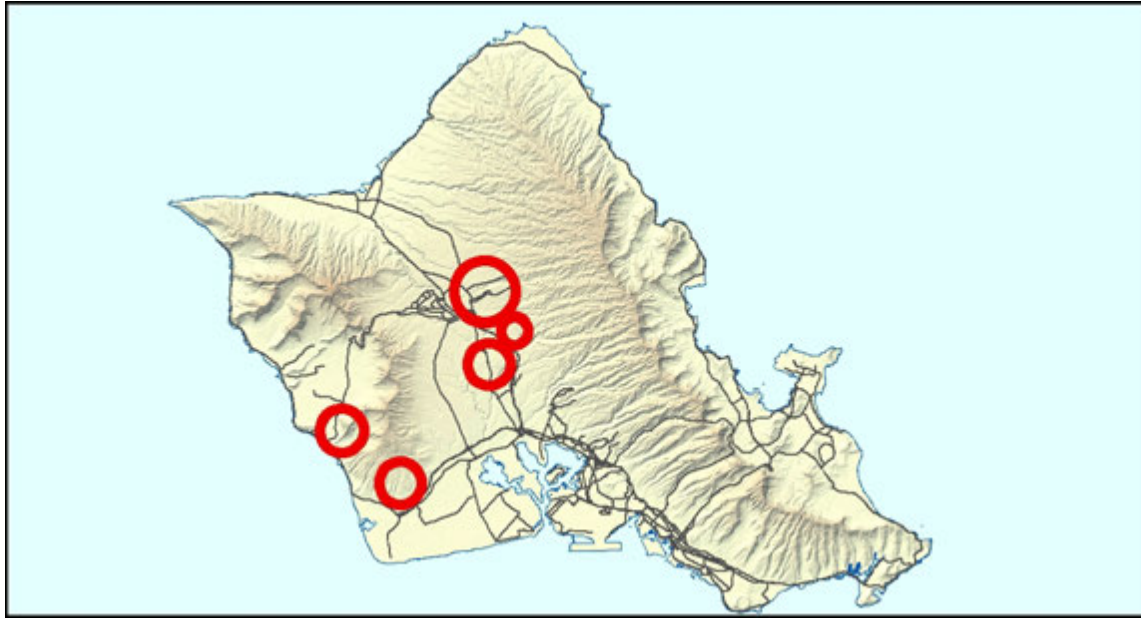
**Estimated Total Project Cost:** \$5,700,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

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

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| DES   | 900       | 720       | 180       | 900       | 720       | 180       | 1,000     | 800       | 200       | 900       | 720       | 180       | 1,000                | 800     | 200      | 1,000 | 800     | 200   | Bridge Off       |

## OC5 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 center and outlying areas for connectivity to the Honolulu Traffic Control Center. Project locations are indicated below.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$7,739,000  
(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

| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |            |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|------------|
|   | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |            |
|   | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |            |
| <i>Phase 13: Mililani Mauka Area</i>                                  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |            |
| CON   | 0         | 0         | 0         | 3,307     | 2,527     | 780       | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | STP Flex   |
| EQP   | 1         | 0         | 1         | 0         | 0         | 0         | 1         | 0         | 1         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | Local Only |
| <i>Phase 14: Mililani Town (Part 1)</i>                               |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |            |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 3,385    | 2,708   | 677   | 0                | STP Flex   |
| <i>Phase 15: Mililani Town (Part 2) &amp; Expand Fiber to Wahiawa</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |            |
| DES   | 250       | 200       | 50        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | STP Flex   |
| <i>Phase 16: Wahiawa</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |            |
| DES   | 0         | 0         | 0         | 375       | 300       | 75        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | STP Flex   |
| <i>Phase 17: Makakilo Area</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |            |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 420      | 336     | 84    | 0                | STP Flex   |
| <i>Phase 18: Nanakuli Area</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |            |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | 0                | STP Flex   |

**OC6 Kapolei Parkway (Route 8920), Kunehi Street to Kamokila Boulevard**



**Project Description:**

Construct Kapolei Parkway between Kamokila Boulevard and Kunehi Street. Kamokila Boulevard to Kamaaha Avenue will be federally funded. The segment from Kamaaha Avenue to Kunehi Street will be locally funded.

**Project Website:** None

**Neighborhood(s):** Makakilo-Kapolei-Honokai Hale

**Estimated Total Project Cost:** \$22,539,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|
|  | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |
|  | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |
| <i>a. Urban Core 4: Kunehi Street to Kamaaha Ave.</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |          |       |         |       |                  |
| DES  | 1         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | Local Only       |
| CON  | 5,200     | 0         | 5,200     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | Local Only       |
| <i>b. Urban Core 5: Kamaaha Ave. to Kamokila Blvd.</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |          |       |         |       |                  |
| CON  | 3,388     | 0         | 3,388     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | Local Only       |
| CON  | 7,813     | 7,813     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | STP Flex         |
| <i>c. Urban Core 4A: Kamaaha Intersection</i>          |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |          |       |         |       |                  |
| CON  | 0         | 0         | 0         | 773       | 0         | 773       | 2,200     | 0         | 2,200     | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | Local Only       |
| CON  | 0         | 0         | 0         | 3,164     | 3,164     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | STP Flex         |

**OC25 Kuakini Street Extension**



**Project Description:**

Plan, design, construct, and inspect traffic improvements to connect Kuakini Street to Hala Drive; approximately 450 linear feet of new roadway. This will alleviate the daily traffic congestion at the intersection of Kuakini Street and Lanakila Avenue. The project includes the installation of new sidewalks. There is insufficient right-of-way to provide bike lanes.

**Project Website:** None

**Neighborhood(s):** Nuuanu-Punchbowl

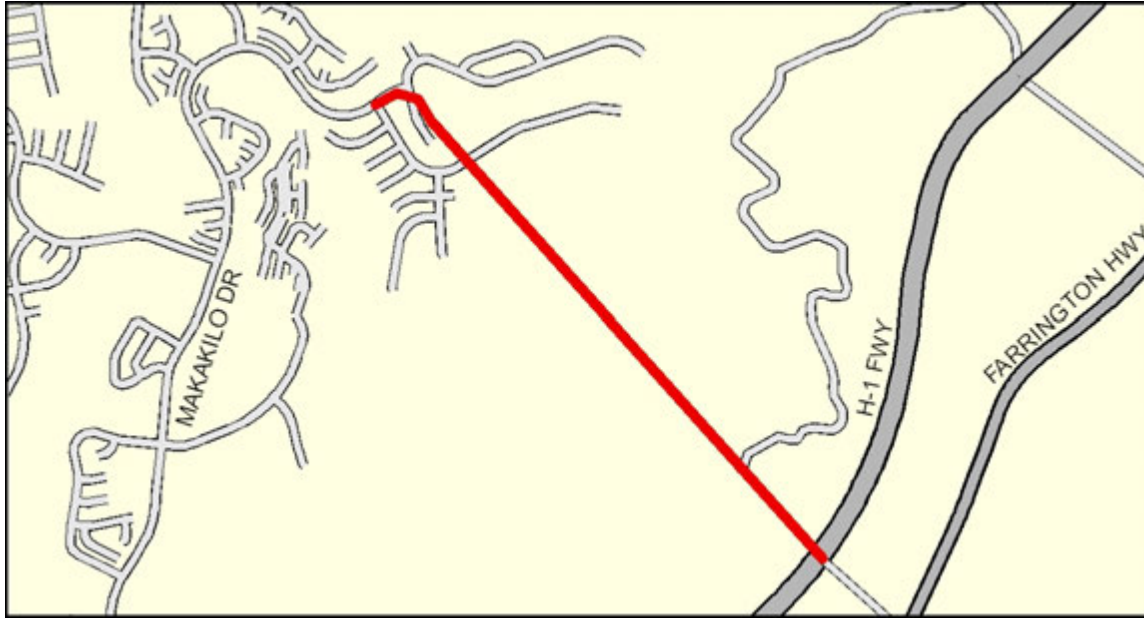
**Estimated Total Project Cost:** \$3,127,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

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

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |            |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |            |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |            |
| PLN   | 0         | 0         | 0         | 10        | 0         | 10        | 0         | 0         | 0         | 10        | 0         | 10        | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | Local Only |
| DES   | 0         | 0         | 0         | 10        | 0         | 10        | 0         | 0         | 0         | 10        | 0         | 10        | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | Local Only |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 2,107     | 2,107     | 0         | 970       | 0         | 970       | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | STP Flex   |
| INSP  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 10        | 0         | 10        | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | Local Only |

**OC7 Makakilo Drive (Route 8810) Extension**



**Project Description:**

Construct an extension of Makakilo Drive from the Palehua Subdivision to the H-1 Freeway.

**Project Website:** None

**Neighborhood(s):** Makakilo-Kapolei-Honokai Hale

**Estimated Total Project Cost:** \$88,500,000  
 (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

| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|         | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|         | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| Phase 1 |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES     | 0         | 0         | 0         | 0         | 0         | 0         | 3,000     | 0         | 3,000     | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |

**OC8 Salt Lake Boulevard (Route 7311), Widening, Maluna Street to Ala Lilikoi Street**



**Project Description:**

Widen Salt Lake Boulevard from two to six lanes, between Maluna Street and Ala Lilikoi Street.

**Project Website:** None

**Neighborhood(s):** Aliamanu-Salt Lake-Foster Village

**Estimated Total Project Cost:** \$66,000,000  
(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 22,000    | 0         | 22,000    | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 22,000               | 17,600  | 4,400 | 22,000   | 17,600  | 4,400 | STP Flex         |

**OC9 Seismic Bridge Retrofit**

Sites are not yet determined.

**Project Description:**

Research various bridge plans and files, do site inspections, conduct seismic evaluations, identify alternate schemes for seismic retrofit, and construct retrofit measures. The bridges have not yet been determined.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$900,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

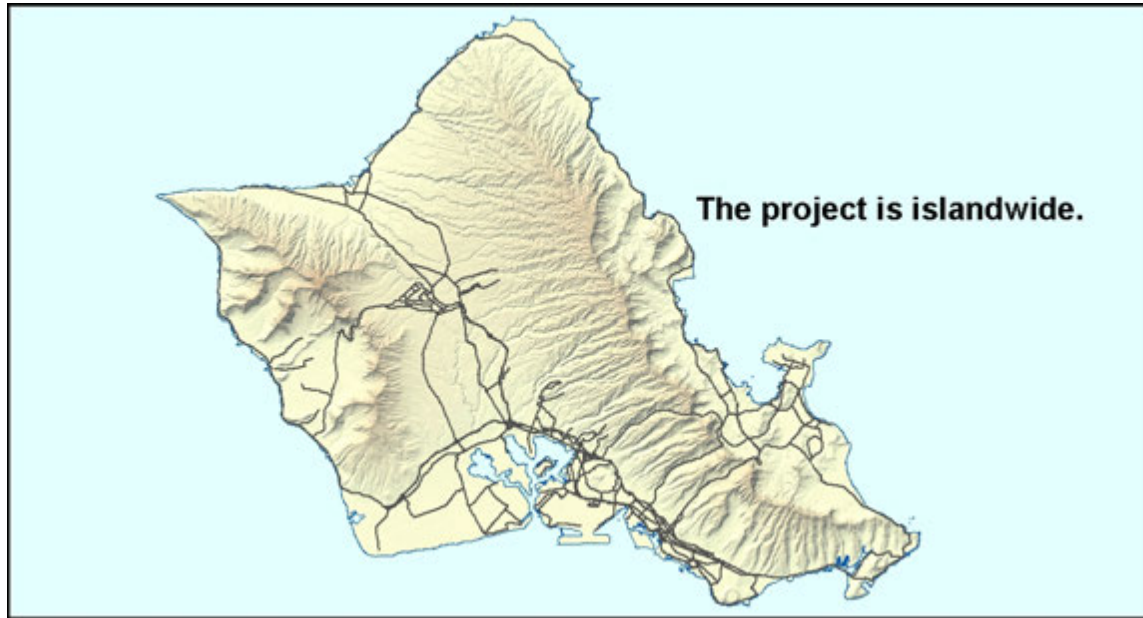
**Project Sponsor:** City and County of Honolulu (FHWA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 600      | 480     | 120   | Bridge Off       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 300       | 0         | 300       | 0                    | 0       | 0     | 0        | 0       | 0     | Bridge Off       |



## OC10 Traffic Improvements at Various Locations



**Project Description:**

Provide traffic congestion relief and improve traffic safety. Project locations are indicated below.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$10,041,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|  | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|  | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| <i>a. Harding Avenue and 5th and 11th Avenues: Widen the roads and improve the traffic signal system to allow for protected left turns at the Harding Avenue/5th Avenue intersection and the Harding Avenue/11th Avenue intersection.</i>                            |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| CON  | 0         | 0         | 0         | 0         | 0         | 0         | 288       | 0         | 288       | 301       | 201       | 100       | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| <i>b. Kalaheo Avenue and Kailua Road: Conduct a study to evaluate traffic congestion and safety for the intersection at Kalaheo Avenue and Kailua Road. A roundabout is being considered, but actual improvements are to be determined as a result of the study.</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| PLN  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 50        | 0         | 50        | 0                    | 0       | 0     | 51       | 0       | 51    | Local Only       |
| DES  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 618       | 400       | 218       | 0                    | 0       | 0     | 100      | 80      | 20    | STP Flex         |
| ROW  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 50        | 0         | 50        | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| ROW  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 112      | 82      | 30    | STP Flex         |
| CON  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 1,785    | 1,428   | 357   | STP Flex         |
| <i>c. Palolo Area: Provide traffic engineering devices on Palolo Avenue, 9th Avenue, and 10th Avenue. This may include roundabouts, bulbouts, and intersection modifications.</i>  |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES  | 300       | 0         | 300       | 0         | 0         | 0         | 200       | 0         | 200       | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON  | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 990                  | 0       | 990   | 0        | 0       | 0     | Local Only       |
| <i>d. Waiakamilo and Dillingham Intersection: Improve the intersection by adding left-turn lanes on Waiakamilo Street and modifying the signals.</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES  | 0         | 0         | 0         | 1         | 0         | 1         | 300       | 0         | 300       | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON  | 0         | 0         | 0         | 0         | 0         | 0         | 1,130     | 930       | 200       | 300       | 200       | 100       | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |

## OC10 Traffic Improvements at Various Locations

| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|   | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|   | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| <i>e. Village Park and Kupuna Loop: Conduct a sub-area traffic safety and circulation study of existing roadway conditions along Kupuna Loop. The result of the study will determine actual improvements and locations.</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 450                  | 360     | 90    | 0        | 0       | 0     | STP Flex         |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 200      | 160     | 40    | STP Flex         |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 2,815    | 2,250   | 565   | STP Flex         |

## OC30 Traffic Signal Maintenance Facility



### Project Description:

Construct a traffic signal maintenance facility for traffic, pedestrian signals, and traffic related technology. The facility will be located within the Manana Bus Facility. It will be accessible based on the Americans with Disabilities Act guidelines. The design includes a bicycle parking facility.

**Project Website:** None

**Neighborhood(s):** Pearl City

**Estimated Total Project Cost:** \$5,082,000  
(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| DES   | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | 70              | 0                 | 70              | 0                    | 0                 | 0               | 0               | 0                 | 0               | Local Only       |
| CON   | 0               | 0                 | 0               | 0               | 0                 | 0               | 5,000           | 4,000             | 1,000           | 0               | 0                 | 0               | 0                    | 0                 | 0               | 0               | 0                 | 0               | STP Flex         |
| EQP   | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | 0               | 0                 | 0               | 0                    | 0                 | 0               | 0               | 0                 | 0               | Local Only       |
| REL   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 10              | 0                 | 10              | 0                    | 0                 | 0               | 0               | 0                 | 0               | Local Only       |

**OC26 Traffic Signal Optimization**



**Project Description:**

Optimize traffic signal timing, coordination, and implementation plans to reduce vehicle congestion, travel times, and fuel consumption. Optimize timings for 408 traffic signals located in various areas on Oahu. Tasks include field studies and data collection, implementing computer networks and calibrating for existing conditions, optimizing timing with computer, and implementing and testing timing in the field.

The flashing "don't walk" times on the traffic signals will utilize the slower pedestrian crossing times in the latest Manual on Uniform Traffic Control Devices. Additional roadway widths for bike lanes and paths will be considered in retiming the traffic signals.

Phase 4 areas include Waianae, Lower Ewa Beach, Nimitz Highway (under viaduct)/Mapunapuna, Kapiolani Boulevard/Ala Moana, and East Oahu.

Phase 5 areas include Wahiawa/Schofield, North Shore, Mililani, Waipahu/Kunia, Pearlridge/Aiea/Halawa, Komo Mai Drive, Kalihi Valley, Nuuanu/Liliha/Pauoa, Manoa/Makiki, Kapahulu, Kaimuki, Waialae/Kahala, Kaneohe/Kahaluu, and Pali/Waimanalo.

**Project Website:**

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$1,470,000  
(May include project costs outside of the 4-year TIP and 2 informational years.)

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

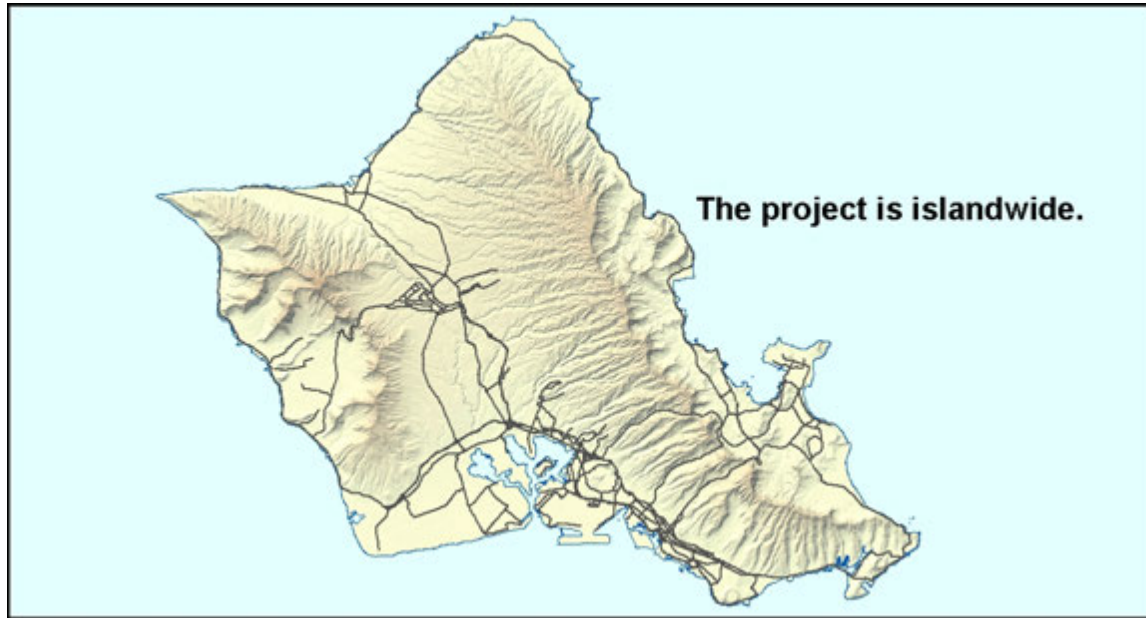
**Agency Responsible for Carrying Out Project/Phase:**  
Hawaii Department of Transportation

| Phase     | FOR INFORMATION ONLY |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | Funding Category |
|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
|           | FFY 2011             |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FFY 2015  |           |           | FFY 2016  |           |           |                  |
|           | Total                | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     |                  |
| (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |
| Phase 4   |                      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |                  |

## OC26 Traffic Signal Optimization

| Phase          | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|                | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|                | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| <i>Phase 4</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES            | 0         | 0         | 0         | 450       | 360       | 90        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| <i>Phase 5</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| DES            | 0         | 0         | 0         | 1,020     | 816       | 204       | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |

## OC11 Traffic Signals at Various Locations



### Project Description:

Install, modify, and upgrade traffic signals islandwide, including Americans with Disabilities Act (ADA) improvements, signs and markings, and interties. The project provides for the safe and orderly movements of pedestrians and vehicles at high-risk intersections. The project upgrades existing intersections, adds left-turn phases, increases signal visibility, improves signal coordination, and provides for ADA improvements. Project work is warranted by the Manual on Uniform Traffic Control Devices (MUTCD) and selected annually by a priority listing.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$18,964,000  
(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

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|  | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|  | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| <i>Phase 13: University area, South Beretania Street/Ward Avenue, North Beretania Street/River Street, and Kapiolani Boulevard/Date Street</i>   |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| CON  | 0         | 0         | 0         | 3,270     | 2,625     | 645       | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |
| EQP  | 1         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| <i>Phase 14: Moanalua Road/Waimanalo Home Road/Kuala Street, 7th Avenue/Harding Avenue, Diamond Head Road/Makapuu Avenue, Diamond Head Road/18th Avenue, Pacific Heights/Pauoa Road, North Vineyard Boulevard/Pua Lane, Aala Road flasher, Waipahu Street/Honowai Street, and Kapahulu Avenue/Lemon Road</i> |           |           |           |           |           |           |           |           |           |           |           |           |                      |         |       |          |         |       |                  |
| PLN  | 1         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| DES  | 350       | 280       | 70        | 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         | 3,000     | 2,349     | 651       | 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     | Local Only       |

## OC11 Traffic Signals at Various Locations

| Phase  | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|--|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|  | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|  | Total (x\$1000)      | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) | Total (x\$1000) | Federal (x\$1000) | Local (x\$1000) |                  |
| <i>Phase 15: South King Street/Kealamakai Street, South King Street/Pensacola Street, South Street/Kawaihao Street, Makaloa Street/Sheridan Street, Prospect Street, California Avenue/Wahiawa Recreation Center, Kamehameha Highway/Lipoa Street</i>                              |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| PLN  | 0                    | 0                 | 0               | 1               | 0                 | 1               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | Local Only       |
| DES  | 0                    | 0                 | 0               | 430             | 380               | 50              | 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               | 3,060           | 2,396             | 664             | 0               | 0                 | 0               | STP Flex         |
| EOP  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | 0               | 0                 | 0               | Local Only       |
| <i>Phase 16: Kapiolani Boulevard/Kaimuki Avenue (Left turn), South King Street/Ward Avenue (audio pedestrian signal), Salt Lake Boulevard/Radford Drive (Left turn, Ewa bound), Ulune Street/Service Road, Farrington Highway/Nanaikeola Street, Nehoa Street/Mott-Smith Drive</i> |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| DES  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 350             | 280               | 70              | 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               | 3,316           | 2,652             | 664             | STP Flex         |
| EOP  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | Local Only       |
| <i>Phase 17: Kuhio Avenue/Paoakalani Avenue, South King Street/Church Lane, Kamehameha Highway/Likelike Highway and Lilipuna Road, Kapiolani Boulevard/Atkinson Drive, Kapolei Parkway/Renton Road</i>   |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| PLN  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | 1               | 0                 | 1               | 0               | 0                 | 0               | Local Only       |
| DES  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 90              | 0                 | 90              | 73              | 0                 | 73              | 0               | 0                 | 0               | Local Only       |
| DES  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 360             | 360               | 0               | 291             | 291               | 0               | 0               | 0                 | 0               | STP Flex         |
| CON  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 651             | 0                 | 651             | Local Only       |
| CON  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 3,349           | 3,349             | 0               | STP Flex         |
| EOP  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | Local Only       |
| <i>Phase 18: Locations to be Determined</i>  |                      |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                  |
| PLN  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | Local Only       |
| DES  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 73              | 0                 | 73              | Local Only       |
| DES  | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 291             | 291               | 0               | STP Flex         |

**OC12 Upgrade Pedestrian Signals at Various Locations**

Sites are not yet determined.

**Project Description:**

Install and upgrade pedestrian signals islandwide to the new countdown pedestrian signals. The project will also upgrade existing pedestrian push buttons to ADA-compliant push buttons.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$660,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| DES   | 30        | 0         | 30        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| CON   | 480       | 360       | 120       | 150       | 0         | 150       | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | STP Flex         |



**OS85 JARC (Small Urban)**

Projects are not yet determined.

**Project Description:**

Job Access & Reverse Commute Program (Section 5316). Funds for the JARC program will be utilized for the purchase of vehicles, general equipment, and/or operating expenses. There will be a “call for projects” to agencies on Oahu to submit proposals for the grant funds.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$455,000  
*(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

| Phase   | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |                   |
|---------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|-------------------|
|         |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |                   |
|         | Total (x\$1000) | 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) |                  |                   |
| EQP/OPR | 175             | 140               | 35              | 140             | 70                | 70              | 140             | 70                | 70              | 0               | 0                 | 0               | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0                | \$5316 JARC-SmUrb |

**OS86 New Freedom (Small Urban)**

Projects are not yet determined.

**Project Description:**

New Freedom Program (Section 5317). Funds from the New Freedom Program will be utilized for the purchase of vehicles, general equipment, and/or operating expenses. There will be a "call for projects" to agencies on Oahu to submit proposals for the grant funds.

**Project Website:** None

**Neighborhood(s):** Various Locations

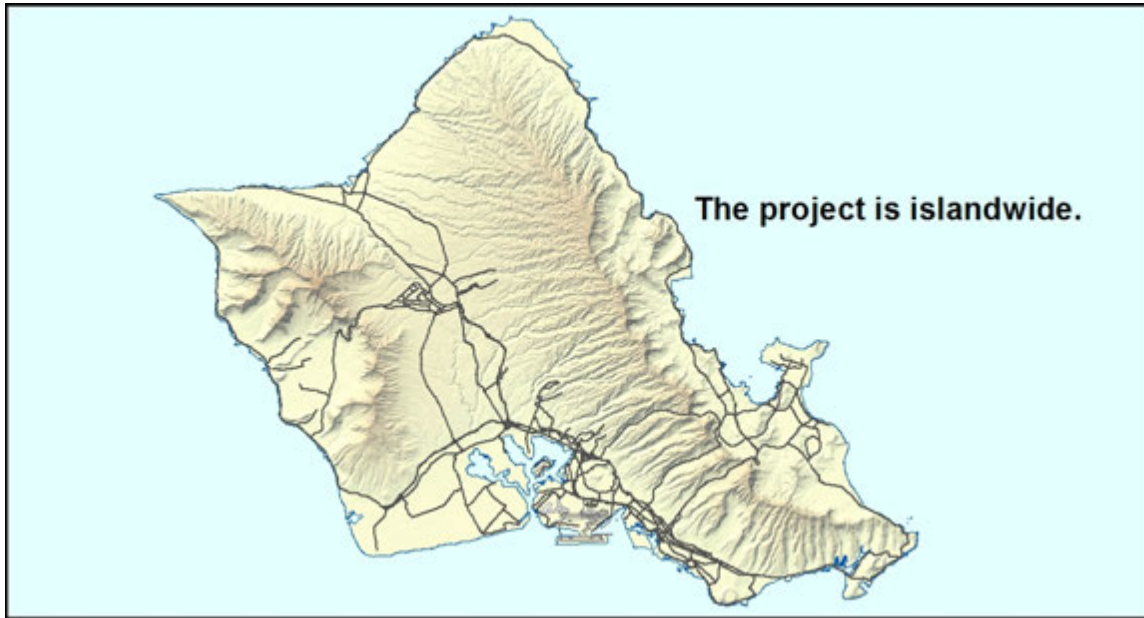
**Estimated Total Project Cost:** \$496,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FTA Funded)

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

| Phase   | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |                 |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|-----------------|
|         | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |                 |
|         | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |                 |
| EQP/OPR | 144       | 115       | 29        | 120       | 60        | 60        | 232       | 116       | 116       | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | \$5317 NF-SmUrb |

**OS95 Transportation Assistance for Elderly and Disabled**



**Project Description:**

Funds from the program will be utilized for either the purchase of buses or operating expenses for seniors and individuals with disabilities.

**Project Website:** None

**Neighborhood(s):** Various Locations

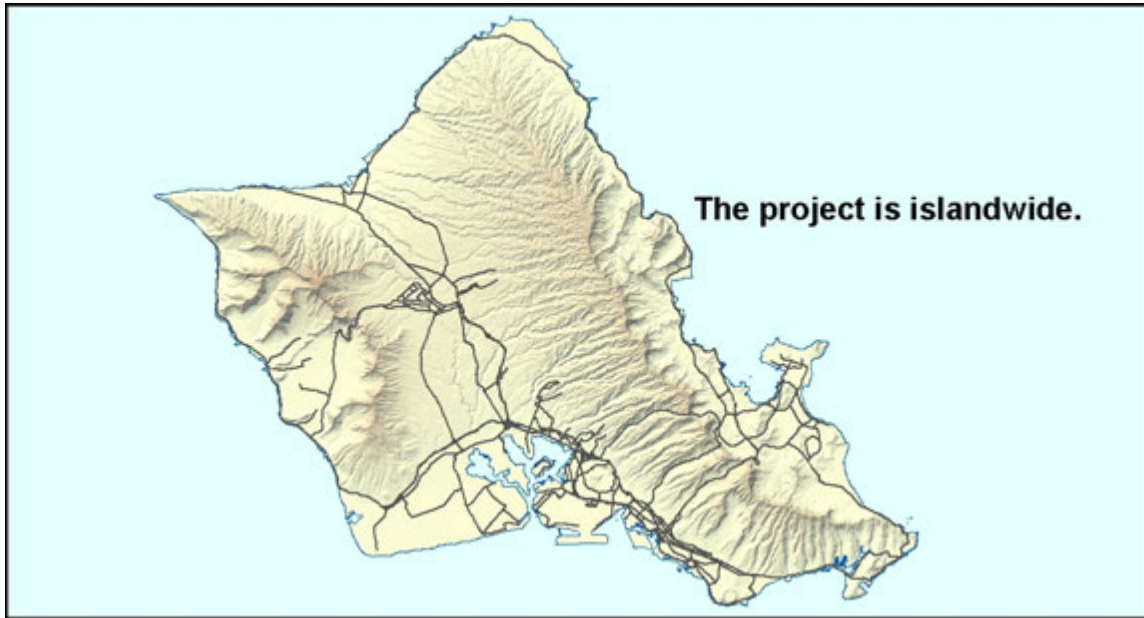
**Estimated Total Project Cost:** \$3,661,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

**Project Sponsor:** State of Hawaii (FTA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 500       | 400       | 100       | 519       | 415       | 104       | 553                  | 430     | 123   | 556      | 445     | 111   | \$5310-Urban     |
| OPR   | 0         | 0         | 0         | 0         | 0         | 0         | 375       | 300       | 75        | 350       | 280       | 70        | 363                  | 290     | 73    | 375      | 300     | 75    | \$5310-Urban     |

**OC13 Agency-Provided Trips**



**Project Description:**

Establish selected human service agencies as transportation providers serving their own clients who currently ride TheHandi-Van, and provide operating funds for the service. The result of this service by agencies would reduce overall operating costs while improving service quality for riders of both the agency services and those riding TheHandi-Van.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$2,799,000  
*(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

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category  |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                   |
|       | Total (x\$1000) | 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) |                   |
| OPR   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 178             | 89                | 89              | 312                  | 156               | 156             | 324             | 162               | 162             | \$5307            |
| OPR   | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 412             | 206               | 206             | 0                    | 0                 | 0               | 0               | 0                 | 0               | \$5316 JARC-Urban |
| OPR   | 230             | 115               | 115             | 422             | 190               | 232             | 426             | 191               | 235             | 495             | 247               | 248             | 0                    | 0                 | 0               | 0               | 0                 | 0               | \$5317            |

## OC14 Bus and Handi-Van Acquisition Program



### Project Description:

Purchase replacement transit buses and Handi-Van vehicles.  
 FFY 2011: 8-45' buses.  
 FFY 2012: 35 <30' vehicles + 13-40' buses.  
 FFY 2013: 55 <30' vehicles + 112-40' buses.  
 FFY 2014: 37-40' buses + 10-60' buses.  
 FFY 2015: 30 <30' vehicles + 5-35' buses + 15-40' buses + 10-60' buses.  
 FFY 2016: 30 <30' vehicles + 5-35' buses + 25-40' buses + 10-60' buses.

**Project Website:** <http://www.thebus.org> and <http://www.honolulu.gov>

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$181,292,000  
 (May include project costs outside of the 4-year TIP and 2 informational years.)

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

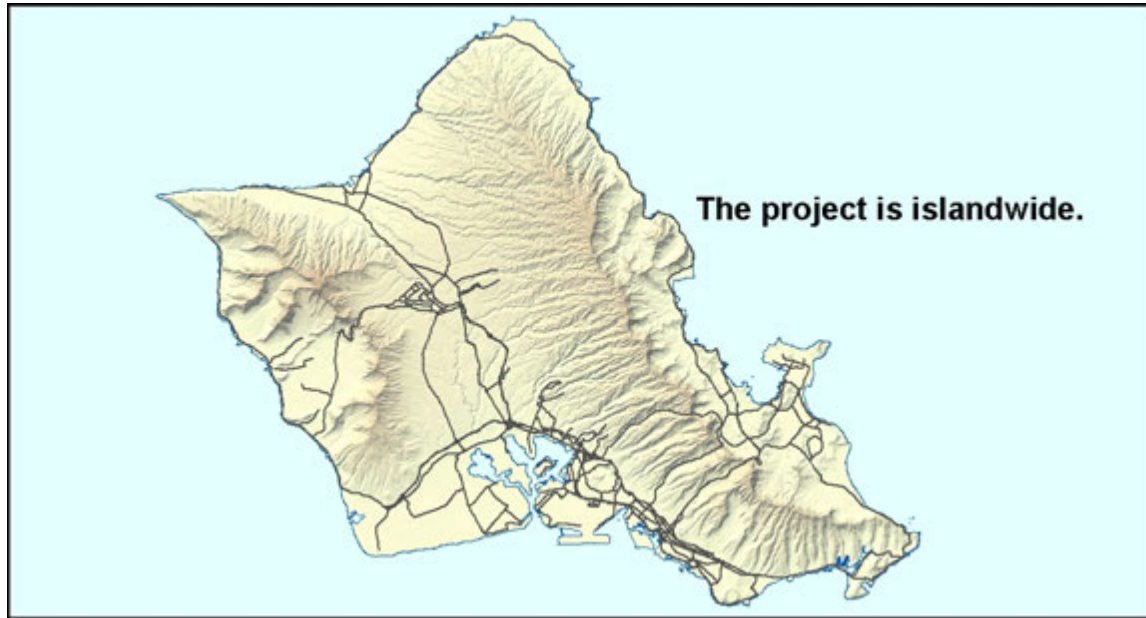
**Agency Responsible for Carrying Out Project/Phase:**  
 City Department of Transportation Services

| Phase | FFY 2011  |           |           |           |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |           |           |                     |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|-----------|-----------|---------------------|
|       | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |                      | Local     |           | Total     |           | Federal   |                  | Local     |           |                     |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  | (x\$1000) | (x\$1000) | (x\$1000)           |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5307/\$5340       |
| EQP   | 0         | 0         | 0         | 9,984     | 7,987     | 1,997     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5307/\$5340(2011) |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 16,752    | 12,564    | 4,188     | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5307/\$5340(2012) |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5307/\$5340(2014) |
| EQP   | 5,713     | 4,998     | 715       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5307/5340TIGGERII |
| EQP   | 0         | 0         | 0         | 2,500     | 2,000     | 500       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5309 FGM          |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 2,500     | 1,888     | 612       | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5309 FGM(2008)    |
| EQP   | 0         | 0         | 0         | 14,040    | 12,000    | 2,040     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5309 SOGR         |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5309 SOGR (2012)  |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 1,415     | 1,132     | 283       | 1,471            | 1,177     | 294       | \$5337 SOGR         |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | 0                | 0         | 0         | \$5337 SOGR (2013)  |

## OC14 Bus and Handi-Van Acquisition Program

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category    |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|---------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                     |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                     |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,388     | 1,110     | 278       | 0                    | 0       | 0     | 0        | 0       | 0     | \$5337 SOGR (2014)  |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 4,720                | 3,776   | 944   | 4,909    | 3,927   | 982   | \$5339              |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 4,364     | 3,491     | 873       | 0                    | 0       | 0     | 0        | 0       | 0     | \$5339 (2013)       |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 4,270     | 3,416     | 854       | 0                    | 0       | 0     | 0        | 0       | 0     | \$5339 (2014)       |
| INSP  | 20        | 18        | 2         | 50        | 45        | 5         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | \$5307/5340TIGGERII |
| INSP  | 104       | 0         | 104       | 111       | 0         | 111       | 115       | 0         | 115       | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only          |

## OC27 Bus Stop ADA Access Improvements



**Project Description:**

Modify bus stops to comply with the Americans with Disabilities Act (ADA).

**Project Website:** None

**Neighborhood(s):** Various Locations

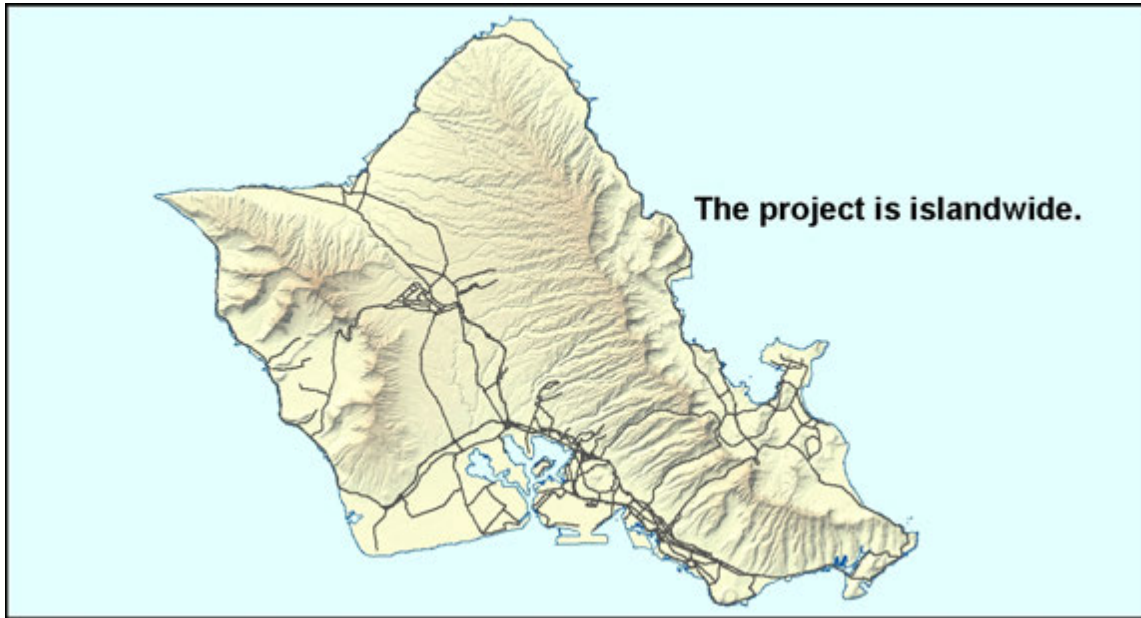
**Estimated Total Project Cost:** \$2,692,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

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

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| PLN   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 0         | 1         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 270       | 0         | 270       | 270       | 0         | 270       | 270                  | 0       | 270   | 270      | 0       | 270   | Local Only       |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 0         | 1         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 625       | 368       | 257       | 325       | 0         | 325       | 325                  | 0       | 325   | 325      | 0       | 325   | \$5307/\$5340    |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 0         | 1         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |

## OC28 Bus Stop Pad Improvements



**Project Description:**

Construct bus pads at various locations to improve bus stops located in poor roadway conditions.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$2,948,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

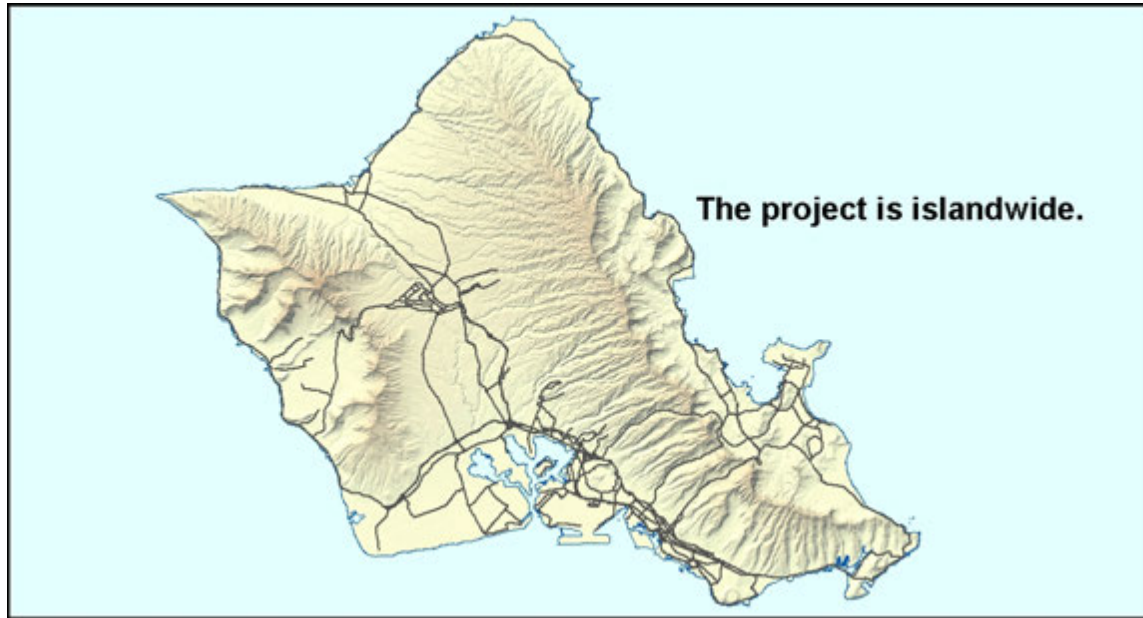
**Project Sponsor:** City and County of Honolulu (FTA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 150       | 0         | 150       | 100       | 0         | 100       | 82                   | 0       | 82    | 82       | 0       | 82    | Local Only       |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 10                   | 0       | 10    | 10       | 0       | 10    | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 825       | 306       | 519       | 825       | 0         | 825       | 432                  | 0       | 432   | 432      | 0       | 432   | \$5307/\$5340    |



## OC29 Bus Stop Site Improvements



**Project Description:**

Improve bus stops, bus shelters, benches, and other improvements at various locations. Site improvements will include walkway improvements, if needed at the bus stop.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$2,339,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |           |           |           |           |           | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |           |           | FFY 2016  |           |           |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |                  |
| PLN   | 0         | 0         | 0         | 0         | 0         | 0         | 5         | 0         | 5         | 5         | 0         | 5         | 5                    | 0         | 5         | 5         | 0         | 5         | Local Only       |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 200       | 0         | 200       | 90        | 0         | 90        | 90                   | 0         | 90        | 90        | 0         | 90        | Local Only       |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0         | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 625       | 332       | 293       | 405       | 0         | 405       | 405                  | 0         | 405       | 405       | 0         | 405       | \$5307/\$5340    |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 5         | 0         | 5         | 1                    | 0         | 1         | 1         | 0         | 1         | Local Only       |



**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 estimated project cost (in year-of-expenditure dollars) is \$5,163,495,000 (excluding Unallocated Contingency amount of \$184,186,000): ROW = \$125,075,000; PROF SVCS = \$933,589,000; CON = \$3,360,070,000; EQP = \$450,907,000; FINANCE CHARGES = \$290,294,000; REL = \$3,560,000. The estimated total project cost reflects escalation calculated by FTA's Project Management Oversight Consultant. The estimated local share of total estimated costs (excluding unallocated contingency) is approximately \$3,372,675,000 in year-of-expenditure dollars. "PROF SVCS" refers to "Professional Services" and includes all services in FTA Standard Cost Category (SCC) 80: Professional, technical, and management services related to the design and construction of the Project during the preliminary engineering, final design, and construction phases. Includes environmental work; design; engineering and architectural services; auditing; legal services; administration and management by agency staff or outside consultants; professional liability insurance and other non-construction insurance; and professional services related to real estate and vehicles.

**Project Website:** <http://www.honolulutransit.org>

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

**Estimated Total Project Cost:** \$5,163,495,000  
*(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

## OC15 Honolulu High-Capacity Transit Corridor Project

| Phase  | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |         |          |         |         | Funding Category |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|---------|----------|---------|---------|------------------|
|        | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |         | FFY 2016 |         |         |                  |
|        | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local   | Total    | Federal | Local   |                  |
| HHCTCP | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 103,024              | 32,000  | 71,024  | 63,116   | 33,000  | 30,116  | \$5307/\$5340    |
| HHCTCP | 80,900    | 30,000    | 50,900    | 0         | 0         | 0         | 0         | 0         | 0         | 888,801   | 250,000   | 638,801   | 643,976              | 200,000 | 443,976 | 382,884  | 200,000 | 182,884 | \$5309 NS(2010)  |
| HHCTCP | 0         | 0         | 0         | 0         | 0         | 0         | 171,875   | 55,000    | 116,875   | 0         | 0         | 0         | 0                    | 0       | 0       | 0        | 0       | 0       | \$5309 NS(2011)  |
| HHCTCP | 0         | 0         | 0         | 0         | 0         | 0         | 698,475   | 200,000   | 498,475   | 0         | 0         | 0         | 0                    | 0       | 0       | 0        | 0       | 0       | \$5309 NS(2012)  |
| HHCTCP | 0         | 0         | 0         | 0         | 0         | 0         | 825,100   | 250,000   | 575,100   | 0         | 0         | 0         | 0                    | 0       | 0       | 0        | 0       | 0       | \$5309 NS(2013)  |

**OC16 Local Shuttle Service**



**Project Description:**

To maintain and expand shuttle services between Kalaeloa homeless shelter sites and the Kapolei Transit Center to address transportation needs of low-income persons. Although no funds are programmed in FFY 2011, existing funds will be sufficient to operate the project through FFY 2011 with no break in service.

**Project Website:** None

**Neighborhood(s):** Makakilo-Kapolei-Honokai Hale

**Estimated Total Project Cost:** \$1,034,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category  |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|-------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                   |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                   |
| OPR   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 204       | 102       | 102       | 212                  | 106     | 106   | 220      | 110     | 110   | \$5307            |
| OPR   | 0         | 0         | 0         | 190       | 95        | 95        | 208       | 104       | 104       | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | \$5316 JARC-Urban |

**OC17 Middle Street Intermodal Center**



**Project Description:**

Design, construct, inspect, and provide relocation funds for Phase 2. Phase 2 is the completion of the Handi-Van parking lot, transit center platform, and bus parking, as well as the parking garage. Transit enhancement elements, such as landscaping, signage, artwork, and bicycle and pedestrian access, are included.

In Revision #9 to the FFYs 2011-2014 TIP, the project was deferred from FFY 2012 to FFY 2015. 23 CFR 450.324(h) requires an inflation factor to be used in the development of financial plans for projects funded with Federal dollars. For purposes of STIP development, the Hawaii Department of Transportation's 2007 policy requires a 4% annual inflation rate assumption. The City recognizes that deferring this project is likely to erode the purchasing power of the project budget. However, additional local match for this project cannot be identified at this time. If necessary, the project scope will be adjusted to meet the budgetary limit, or the project may be phased depending upon the availability of funds at the time of construction.

**Project Website:** None

**Neighborhood(s):** Kalihi-Palama

**Estimated Total Project Cost:** \$34,134,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

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

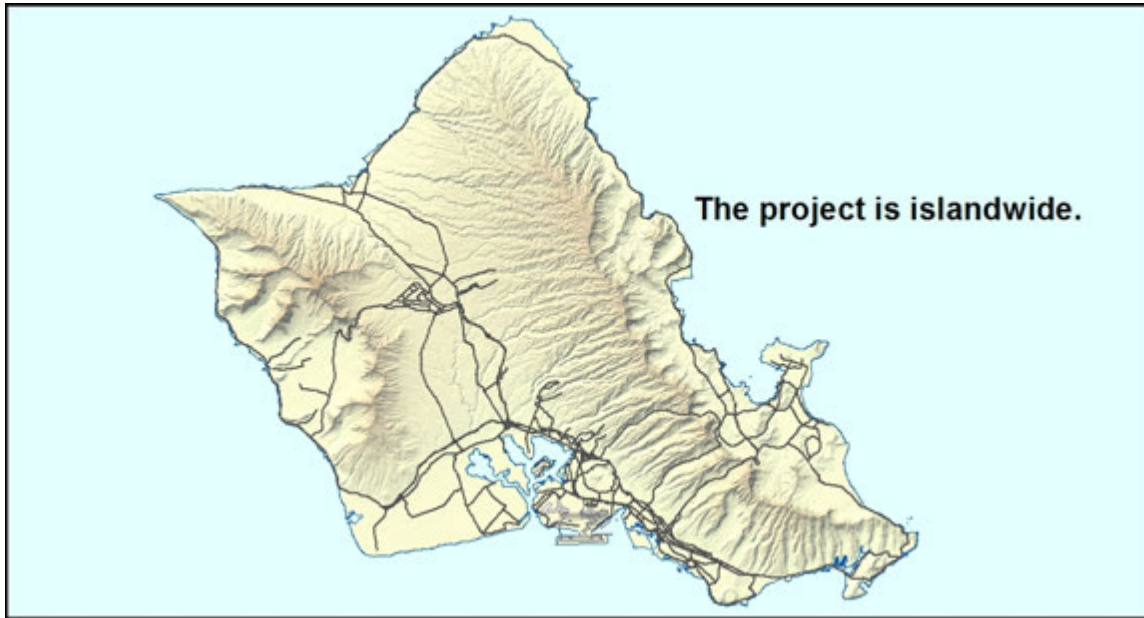
**Agency Responsible for Carrying Out Project/Phase:**  
 City Department of Transportation Services

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| PLN   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 1        | 0       | 1     | Local Only       |
| DES   | 300       | 0         | 300       | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 2,500                | 0       | 2,500 | 200      | 0       | 200   | Local Only       |

**OC17 Middle Street Intermodal Center**

| Phase | FFY 2011           |                      |                    | FFY 2012           |                      |                    | FFY 2013           |                      |                    | FFY 2014           |                      |                    | FOR INFORMATION ONLY |                      |                    |                    |                      |                    | Funding Category |                    |                      |                    |
|-------|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|----------------------|----------------------|--------------------|--------------------|----------------------|--------------------|------------------|--------------------|----------------------|--------------------|
|       | FFY 2015           |                      |                    | FFY 2016           |                      |                    | FFY 2015           |                      |                    | FFY 2016           |                      |                    | FFY 2015             |                      |                    | FFY 2016           |                      |                    |                  |                    |                      |                    |
|       | Total<br>(x\$1000) | Federal<br>(x\$1000) | Local<br>(x\$1000) | Total<br>(x\$1000) | Federal<br>(x\$1000) | Local<br>(x\$1000) | Total<br>(x\$1000) | Federal<br>(x\$1000) | Local<br>(x\$1000) | Total<br>(x\$1000) | Federal<br>(x\$1000) | Local<br>(x\$1000) | Total<br>(x\$1000)   | Federal<br>(x\$1000) | Local<br>(x\$1000) | Total<br>(x\$1000) | Federal<br>(x\$1000) | Local<br>(x\$1000) |                  | Total<br>(x\$1000) | Federal<br>(x\$1000) | Local<br>(x\$1000) |
| CON   | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 1,810                | 1,327                | 483                | 29,322             | 23,458               | 5,864              |                  |                    |                      | \$5309 BC          |
| EQP   | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                    | 0                    | 0                  | 1                  | 0                    | 1                  |                  |                    |                      | Local Only         |

**OC18 Mobility Management**



**Project Description:**

Improve access to transportation for people with disabilities, seniors, and people with low incomes by coordinating transit and human service transportation. Facilitate partnerships and interagency transportation service agreements for coordinated transportation projects. Develop and manage transportation education and support services, such as a transportation provider directory, travel ambassador program, and a bus buddy program.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$2,927,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category  |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|-------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                   |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                   |
| OPR   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 551       | 441       | 110       | 400                  | 320     | 80    | 416      | 332     | 84    | \$5307            |
| OPR   | 496       | 397       | 99        | 318       | 254       | 64        | 318       | 254       | 64        | 220       | 176       | 44        | 0                    | 0       | 0     | 0        | 0       | 0     | \$5316 JARC-Urban |
| OPR   | 100       | 80        | 20        | 54        | 43        | 11        | 54        | 43        | 11        | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | \$5317 NF-Urban   |

## OC19 Preventive Maintenance



**Project Description:**

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

**Project Website:** <http://www.thebus.org> and <http://www.co.honolulu>.

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$278,013,000  
*(May include project costs outside of the 4-year TIP and 2 informational years.)*

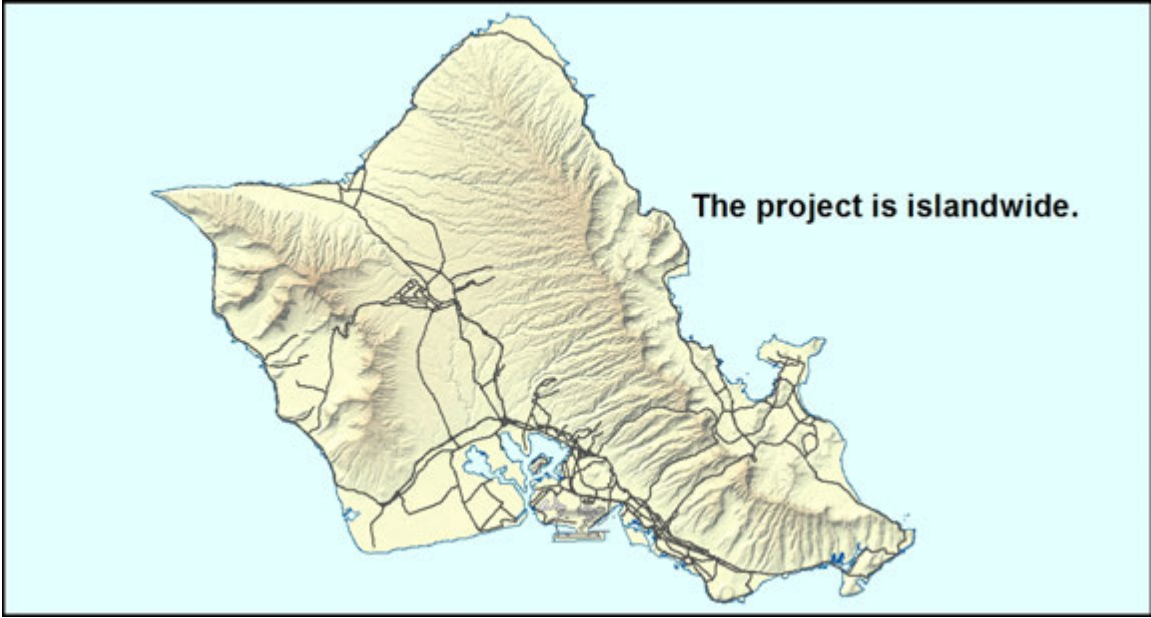
**Project Sponsor:** City and County of Honolulu (FTA Funded)

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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |        |          |         |        | Funding Category    |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|--------|----------|---------|--------|---------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |        | FFY 2016 |         |        |                     |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local  | Total    | Federal | Local  |                     |
| OPR   | 0         | 0         | 0         | 43,080    | 21,000    | 22,080    | 40,034    | 25,000    | 15,034    | 42,595    | 22,000    | 20,595    | 48,459               | 0       | 48,459 | 50,397   | 0       | 50,397 | \$5307/\$5340       |
| OPR   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 7,864     | 4,200     | 3,664     | 0                    | 0       | 0      | 0        | 0       | 0      | \$5307/\$5340(2008) |
| OPR   | 0         | 0         | 0         | 45,584    | 27,161    | 18,423    | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0      | 0        | 0       | 0      | \$5307/\$5340(2011) |



**OC24 Special Needs Transportation**



**Project Description:**

To maintain and expand shuttle services to meet transportation needs of frail seniors 60 years and over to include late afternoon, evening hours, and weekend service. Pedestrian and bicycle elements are not included in the project's scope.

**Project Website:** [www.honolulurides.org](http://www.honolulurides.org)

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$146,000  
*(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |          |       |         |       | Funding Category |                 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|----------|-------|---------|-------|------------------|-----------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         | FFY 2016 |       |         |       |                  |                 |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local    | Total | Federal | Local |                  |                 |
| OPR   | 146       | 73        | 73        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0        | 0     | 0       | 0     | 0                | \$5317 NF-Urban |

**OC21 Transit Safety and Security Projects**

Sites are not yet determined.

**Project Description:**

Capital improvement projects at various locations will provide safety and security in transit vehicles at future and existing bus stops and transit centers, park-and-ride lots, and bus maintenance facilities.

In Revision #12 to the FFYs 2011-2014 TIP, funds were deferred from FFY 2011 to FFY 2012, and from FFY 2012 to FFY 2013.

23 CFR 450.324(h) requires an inflation factor to be used in the development of financial plans for projects funded with Federal dollars. For purposes of STIP development, the Hawaii Department of Transportation's 2007 policy requires a 4% annual inflation rate assumption. The City recognizes that deferring this project is likely to erode the purchasing power of the project budget. However, additional local match for this project cannot be identified at this time. If necessary, the project scope will be adjusted to meet the budgetary limit, or the project may be phased depending upon the availability of funds at the time of construction.

**Project Website:** None

**Neighborhood(s):** Various Locations

**Estimated Total Project Cost:** \$2,877,000  
(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

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| PLN   | 1         | 0         | 1         | 1         | 0         | 1         | 1         | 0         | 1         | 1         | 0         | 1         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |
| DES   | 1         | 0         | 1         | 1         | 0         | 1         | 1         | 0         | 1         | 1         | 0         | 1         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |

## OC21 Transit Safety and Security Projects

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category    |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|---------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                     |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                     |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 1         | 1         | 0         | 1         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only          |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 413       | 330       | 83        | 413       | 330       | 83        | 413                  | 330     | 83    | 413      | 330     | 83    | \$5307/\$5340       |
| EQP   | 0         | 0         | 0         | 455       | 365       | 90        | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | \$5307/\$5340(2011) |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 754       | 364       | 390       | 0         | 0         | 0         | 0                    | 0       | 0     | 0        | 0       | 0     | \$5307/\$5340(2012) |

**OC22 West Oahu Bus and Handi-Van Maintenance Facility**

Site is not yet determined.

**Project Description:**

Construct a maintenance facility for the bus and handi-van operations in West Oahu. The site is not yet determined. Current bus and handi-van maintenance facilities are at their maximum capacity. A third facility is required to accommodate any future expansion of the bus and handi-van fleet.

In Revision #9 to the FFYs 2011-2014 TIP, the project was deferred from FFY 2012 to FFY 2013. 23 CFR 450.324(h) requires an inflation factor to be used in the development of financial plans for projects funded with Federal dollars. For purposes of STIP development, the Hawaii Department of Transportation's 2007 policy requires a 4% annual inflation rate assumption. The City recognizes that deferring this project is likely to erode the purchasing power of the project budget. However, additional local match for this project cannot be identified at this time. If necessary, the project scope will be adjusted to meet the budgetary limit, or the project may be phased depending upon the availability of funds at the time of construction.

**Project Website:** None

**Neighborhood(s):** Makakilo-Kapolei-Honokai Hale, Ewa, Waianae Coast

**Estimated Total Project Cost:** \$31,559,000  
(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

| Phase | FOR INFORMATION ONLY |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | Funding Category |
|-------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       | FFY 2011             |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FFY 2015        |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000)      | 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) |                  |
| PLN   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 1               | 0                 | 1               | 1               | 0                 | 1               | 1               | 0                 | 1               | Local Only       |
| DES   | 0                    | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 50              | 0                 | 50              | 8,000           | 0                 | 8,000           | 1               | 0                 | 1               | Local Only       |

**OC22 West Oahu Bus and Handi-Van Maintenance Facility**

| Phase | FFY 2011  |           |           | FFY 2012  |           |           | FFY 2013  |           |           | FFY 2014  |           |           | FOR INFORMATION ONLY |         |       |          |         |       | Funding Category |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-------|----------|---------|-------|------------------|
|       | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | Total     | Federal   | Local     | FFY 2015             |         |       | FFY 2016 |         |       |                  |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | Total                | Federal | Local | Total    | Federal | Local |                  |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,000     | 0         | 1,000     | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1                    | 0       | 1     | 21,500   | 17,200  | 4,300 | \$5309 BC        |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1,000     | 0         | 1,000     | 0                    | 0       | 0     | 0        | 0       | 0     | Local Only       |
| REL   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1                    | 0       | 1     | 1        | 0       | 1     | Local Only       |

Site is not yet determined.

**Project Description:**

Construct a transit center in Windward Oahu. The site is not yet determined.

In Revision #9 to the FFYs 2011-2014 TIP, the project was deferred from FFY 2012 to FFY 2013. 23 CFR 450.324(h) requires an inflation factor to be used in the development of financial plans for projects funded with Federal dollars. For purposes of STIP development, the Hawaii Department of Transportation's 2007 policy requires a 4% annual inflation rate assumption. The City recognizes that deferring this project is likely to erode the purchasing power of the project budget. However, additional local match for this project cannot be identified at this time. If necessary, the project scope will be adjusted to meet the budgetary limit, or the project may be phased depending upon the availability of funds at the time of construction.

**Project Website:** None

**Neighborhood(s):** Kailua, Kaneohe, Kahaluu

**Estimated Total Project Cost:** \$3,557,000  
(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

| Phase | FFY 2011  |           |           |           |           |           | FFY 2012  |           |           |           |           |           | FFY 2013  |           |           |           |           |           | FFY 2014  |           |           |           |           |           | FOR INFORMATION ONLY |           |           |           |           |   | Funding Category |            |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|---|------------------|------------|
|       | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total     |           | Federal   |           | Local     |           | Total                |           | Federal   |           | Local     |   |                  |            |
|       | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000)            | (x\$1000) | (x\$1000) | (x\$1000) | (x\$1000) |   |                  |            |
| PLN   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0 | 0                | Local Only |
| DES   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0 | 0                | Local Only |
| ROW   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0 | 0                | Local Only |
| CON   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0 | 0                | Local Only |
| EQP   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0                    | 0         | 0         | 0         | 0         | 0 | 0                | Local Only |

**OC23 Windward Transit Center**

| Phase | FFY 2011        |                   |                 | FFY 2012        |                   |                 | FFY 2013        |                   |                 | FFY 2014        |                   |                 | FOR INFORMATION ONLY |                   |                 |                 |                   |                 | Funding Category |
|-------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|----------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------|
|       |                 |                   |                 |                 |                   |                 |                 |                   |                 |                 |                   |                 | FFY 2015             |                   |                 | FFY 2016        |                   |                 |                  |
|       | Total (x\$1000) | 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) |                  |
| INSP  | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 150             | 0                 | 150             | 1                    | 0                 | 1               | 0               | 0                 | 0               | Local Only       |

## FFYs 2011-2014 TIP REVISION #31 FUNDING SUMMARY

|   |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    | FOR INFORMATION ONLY |                      |                    |                    |                      |                    |
|---|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|--------------------|----------------------|--------------------|----------------------|----------------------|--------------------|--------------------|----------------------|--------------------|
|   | FFY 2011           |                      |                    | FFY 2012           |                      |                    | FFY 2013           |                      |                    | FFY 2014           |                      |                    | FFY 2015             |                      |                    | FFY 2016           |                      |                    |
|   | TOTAL<br>(x\$1000) | FEDERAL<br>(x\$1000) | LOCAL<br>(x\$1000) | TOTAL<br>(x\$1000) | FEDERAL<br>(x\$1000) | LOCAL<br>(x\$1000) | TOTAL<br>(x\$1000) | FEDERAL<br>(x\$1000) | LOCAL<br>(x\$1000) | TOTAL<br>(x\$1000) | FEDERAL<br>(x\$1000) | LOCAL<br>(x\$1000) | TOTAL<br>(x\$1000)   | FEDERAL<br>(x\$1000) | LOCAL<br>(x\$1000) | TOTAL<br>(x\$1000) | FEDERAL<br>(x\$1000) | LOCAL<br>(x\$1000) |
| <b>FHWA-FUNDED PROJECTS</b>                     |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    |                      |                      |                    |                    |                      |                    |
| <u>State of Hawaii - Sponsored Projects</u>     |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    |                      |                      |                    |                    |                      |                    |
| As of Revision #30                              | 44,344             | 36,266               | 8,078              | 59,509             | 40,507               | 19,002             | 102,051            | 62,281               | 39,770             | 136,585            | 70,195               | 66,390             | 252,047              | 154,530              | 97,517             | 163,539            | 124,814              | 38,725             |
| Revision #31 Changes                            | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                    | 0                    | 0                  | 0                  | 0                    | 0                  |
| <b>Total as of Revision #31</b>                 | <b>44,344</b>      | <b>36,266</b>        | <b>8,078</b>       | <b>59,509</b>      | <b>40,507</b>        | <b>19,002</b>      | <b>102,051</b>     | <b>62,281</b>        | <b>39,770</b>      | <b>136,585</b>     | <b>70,195</b>        | <b>66,390</b>      | <b>252,047</b>       | <b>154,530</b>       | <b>97,517</b>      | <b>163,539</b>     | <b>124,814</b>       | <b>38,725</b>      |
| <u>C&amp;C of Honolulu - Sponsored Projects</u> |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    |                      |                      |                    |                    |                      |                    |
| As of Revision #30                              | 39,056             | 15,329               | 23,727             | 19,807             | 11,648               | 8,159              | 23,761             | 14,357               | 9,404              | 50,609             | 14,393               | 36,216             | 51,930               | 33,161               | 18,769             | 67,312             | 44,386               | 22,926             |
| Revision #31 Changes                            | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | (257)              | 0                    | (257)              | 0                    | 0                    | 0                  | 0                  | 0                    | 0                  |
| <b>Total as of Revision #31</b>                 | <b>39,056</b>      | <b>15,329</b>        | <b>23,727</b>      | <b>19,807</b>      | <b>11,648</b>        | <b>8,159</b>       | <b>23,761</b>      | <b>14,357</b>        | <b>9,404</b>       | <b>50,352</b>      | <b>14,393</b>        | <b>35,959</b>      | <b>51,930</b>        | <b>33,161</b>        | <b>18,769</b>      | <b>67,312</b>      | <b>44,386</b>        | <b>22,926</b>      |
| <b>TOTAL FHWA</b>                               | <b>83,400</b>      | <b>51,595</b>        | <b>31,805</b>      | <b>79,316</b>      | <b>52,155</b>        | <b>27,161</b>      | <b>125,812</b>     | <b>76,638</b>        | <b>49,174</b>      | <b>186,937</b>     | <b>84,588</b>        | <b>102,349</b>     | <b>303,977</b>       | <b>187,691</b>       | <b>116,286</b>     | <b>230,851</b>     | <b>169,200</b>       | <b>61,651</b>      |
| <b>FTA-FUNDED PROJECTS</b>                      |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    |                      |                      |                    |                    |                      |                    |
| <u>State of Hawaii - Sponsored Projects</u>     |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    |                      |                      |                    |                    |                      |                    |
| As of Revision #30                              | 319                | 255                  | 64                 | 260                | 130                  | 130                | 1,247              | 886                  | 361                | 869                | 695                  | 174                | 916                  | 720                  | 196                | 931                | 745                  | 186                |
| Revision #31 Changes                            | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 0                    | 0                    | 0                  | 0                  | 0                    | 0                  |
| <b>Total as of Revision #31</b>                 | <b>319</b>         | <b>255</b>           | <b>64</b>          | <b>260</b>         | <b>130</b>           | <b>130</b>         | <b>1,247</b>       | <b>886</b>           | <b>361</b>         | <b>869</b>         | <b>695</b>           | <b>174</b>         | <b>916</b>           | <b>720</b>           | <b>196</b>         | <b>931</b>         | <b>745</b>           | <b>186</b>         |
| <u>C&amp;C of Honolulu - Sponsored Projects</u> |                    |                      |                    |                    |                      |                    |                    |                      |                    |                    |                      |                    |                      |                      |                    |                    |                      |                    |
| As of Revision #30                              | 90,447             | 37,630               | 52,817             | 116,790            | 71,140               | 45,650             | 1,759,732          | 546,744              | 1,212,988          | 995,614            | 313,837              | 681,777            | 865,081              | 251,153              | 613,928            | 576,804            | 281,696              | 295,108            |
| Revision #31 Changes                            | (2,436)            | (1,949)              | (487)              | 0                  | 0                    | 0                  | 0                  | 0                    | 0                  | 2,348              | 1,949                | 399                | 0                    | 0                    | 0                  | 0                  | 0                    | 0                  |
| <b>Total as of Revision #31</b>                 | <b>88,011</b>      | <b>35,681</b>        | <b>52,330</b>      | <b>116,790</b>     | <b>71,140</b>        | <b>45,650</b>      | <b>1,759,732</b>   | <b>546,744</b>       | <b>1,212,988</b>   | <b>997,962</b>     | <b>315,786</b>       | <b>682,176</b>     | <b>865,081</b>       | <b>251,153</b>       | <b>613,928</b>     | <b>576,804</b>     | <b>281,696</b>       | <b>295,108</b>     |
| <b>TOTAL FTA</b>                                | <b>88,330</b>      | <b>35,936</b>        | <b>52,394</b>      | <b>117,050</b>     | <b>71,270</b>        | <b>45,780</b>      | <b>1,760,979</b>   | <b>547,630</b>       | <b>1,213,349</b>   | <b>998,831</b>     | <b>316,481</b>       | <b>682,350</b>     | <b>865,997</b>       | <b>251,873</b>       | <b>614,124</b>     | <b>577,735</b>     | <b>282,441</b>       | <b>295,294</b>     |



**FHWA REGULAR FORMULA FUNDS PROGRAMMED**

|  | FFY 2011<br>(x\$1000) | FFY 2012<br>(x\$1000) | FFY 2013<br>(x\$1000) | FFY 2014<br>(x\$1000) | FOR INFORMATION ONLY  |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  |                       |                       |                       |                       | FFY 2015<br>(x\$1000) | FFY 2016<br>(x\$1000) |
| <b>FHWA-FUNDED PROJECTS</b>                                  |                       |                       |                       |                       |                       |                       |
| <b><u>State of Hawaii-Sponsored Projects</u></b>             |                       |                       |                       |                       |                       |                       |
| Bridge On/Off-System   | 3,930                 | 160                   | 208                   | 9,050                 | 38,749                | 40,612                |
| Earmark High Priority  | 0                     | 0                     | 800                   | 0                     | 1,065                 | 0                     |
| Highway Safety Improvement Program                           | 2,079                 | 0                     | 10,836                | 2,598                 | 4,043                 | 0                     |
| Highways for LIFE  | 0                     | 0                     | 0                     | 3,000                 | 0                     | 0                     |
| Interstate Maintenance                                       | 0                     | 25,520                | 0                     | 255                   | 17,979                | 52,133                |
| Interstate Maintenance Discretionary                         | 0                     | 0                     | 0                     | 2,277                 | 4,300                 | 0                     |
| National Highway System                                      | 11,720                | 7,440                 | 40,850                | 30,520                | 64,974                | 29,538                |
| Recreational Trails Program                                  | 287                   | 287                   | 287                   | 287                   | 287                   | 287                   |
| STP Flexible   | 16,250                | 7,100                 | 9,300                 | 14,992                | 21,088                | 0                     |
| Transportation Enhancement                                   | 2,000                 | 0                     | 0                     | 7,216                 | 2,045                 | 2,244                 |
| <b>State of Hawaii - FHWA Total</b>                          | <b>36,266</b>         | <b>40,507</b>         | <b>62,281</b>         | <b>70,195</b>         | <b>154,530</b>        | <b>124,814</b>        |
| <b><u>City and County of Honolulu-Sponsored Projects</u></b> |                       |                       |                       |                       |                       |                       |
| Bridge Off-System  | 720                   | 720                   | 800                   | 720                   | 800                   | 1,280                 |
| STP Flexible   | 14,609                | 10,928                | 13,557                | 13,673                | 32,361                | 43,106                |
| <b>City and County of Honolulu - FHWA Total</b>              | <b>15,329</b>         | <b>11,648</b>         | <b>14,357</b>         | <b>14,393</b>         | <b>33,161</b>         | <b>44,386</b>         |
| <b>FHWA TOTAL</b>  | <b>51,595</b>         | <b>52,155</b>         | <b>76,638</b>         | <b>84,588</b>         | <b>187,691</b>        | <b>169,200</b>        |
| <b>Less Discretionary Funds, etc.</b>                        | <b>0</b>              | <b>0</b>              | <b>(800)</b>          | <b>(5,277)</b>        | <b>(5,365)</b>        | <b>0</b>              |
| <b>FHWA REGULAR FORMULA FUNDS TOTAL</b>                      | <b>51,595</b>         | <b>52,155</b>         | <b>75,838</b>         | <b>79,311</b>         | <b>182,326</b>        | <b>169,200</b>        |

**FINANCIAL PLAN**  
**FFYs 2011-2014 TIP as of Revision #31**

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 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 2011-2014 STIP, as revised. Refer to Chapter 7 of the TIP for additional information on FHWA and FTA funding sources.

**FHWA Financial Constraint – FFY 2011**

| FFY 2011                           | 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                  | 720  | 180                   | 900                     | 900                              | 0                       |
| Bridge On/Off-System               | 3,930                                      | 545                   | 4,475                   | 4,475                            | 0                       |
| Highway Safety Improvement Program | 2,079                                      | 231                   | 2,310                   | 2,310                            | 0                       |
| National Highway System            | 11,720                                     | 2,680                 | 14,400                  | 14,400                           | 0                       |
| Recreational Trails Program        | 287  | 72                    | 359                     | 359                              | 0                       |
| STP Flexible                       | 30,859                                     | 5,150                 | 36,009                  | 36,009                           | 0                       |
| Transportation Enhancement         | 2,000                                      | 500                   | 2,500                   | 2,500                            | 0                       |
| Local Only                         | 0  | 22,447                | 22,447                  | 22,447                           | 0                       |
| <b>Total</b>                       | <b>51,595</b>                              | <b>31,805</b>         | <b>83,400</b>           | <b>83,400</b>                    | <b>0</b>                |

**FHWA Financial Constraint – FFY 2012**

| FFY 2012                    | 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           | 720  | 180                   | 900                     | 900                              | 0                       |
| Bridge On/Off-System        | 160  | 40                    | 200                     | 200                              | 0                       |
| Interstate Maintenance      | 25,520                                     | 6,380                 | 31,900                  | 31,900                           | 0                       |
| National Highway System     | 7,440                                      | 1,610                 | 9,050                   | 9,050                            | 0                       |
| Recreational Trails Program | 287  | 72                    | 359                     | 359                              | 0                       |
| STP Flexible                | 18,028                                     | 13,083                | 31,111                  | 31,111                           | 0                       |
| Local Only                  | 0  | 5,796                 | 5,796                   | 5,796                            | 0                       |
| <b>Total</b>                | <b>52,155</b>                              | <b>27,161</b>         | <b>79,316</b>           | <b>79,316</b>                    | <b>0</b>                |

**FHWA Financial Constraint – FFY 2013**

| FFY 2013  | 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                            | 0                       |
| Bridge On/Off-System                                    | 208  | 52                    | 260                     | 260                              | 0                       |
| Earmark High Priority                                   | 800  | 200                   | 1,000                   | 1,000                            | 0                       |
| Highway Safety Improvement Program                      | 10,836                                     | 1,204                 | 12,040                  | 12,040                           | 0                       |
| Interstate Maintenance/National Highway System/STP Flex | 0  | 29,600                | 29,600                  | 29,600                           | 0                       |
| National Highway System                                 | 40,850                                     | 11,650                | 52,500                  | 52,500                           | 0                       |
| Recreational Trails Program                             | 287  | 72                    | 359                     | 359                              | 0                       |
| STP Flexible  | 22,857                                     | 309                   | 23,166                  | 23,166                           | 0                       |
| Local Only  | 0  | 5,887                 | 5,887                   | 5,887                            | 0                       |
| <b>Total</b>  | <b>76,638</b>                              | <b>49,174</b>         | <b>125,812</b>          | <b>125,812</b>                   | <b>0</b>                |

**FHWA Financial Constraint – FFY 2014**

| FFY 2014  | 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                                       | 720  | 480                   | 1,200                   | 1,200                            | 0                       |
| Bridge On/Off-System                                    | 9,050                                      | 2,261                 | 11,311                  | 11,311                           | 0                       |
| Highways for LIFE                                       | 3,000                                      | 0                     | 3,000                   | 3,000                            | 0                       |
| Highway Safety Improvement Program                      | 2,598                                      | 462                   | 3,060                   | 3,060                            | 0                       |
| Interstate Maintenance                                  | 255  | 30                    | 285                     | 285                              | 0                       |
| Interstate Maintenance Discretionary                    | 2,277                                      | 10,453                | 12,730                  | 12,730                           | 0                       |
| Interstate Maintenance/National Highway System/STP Flex | 0  | 36,400                | 36,400                  | 36,400                           | 0                       |
| National Highway System                                 | 30,520                                     | 17,900                | 48,420                  | 48,420                           | 0                       |
| Recreational Trails Program                             | 287  | 72                    | 359                     | 359                              | 0                       |
| STP Flexible  | 28,665                                     | 9,724                 | 38,389                  | 38,389                           | 0                       |
| Transportation Enhancement                              | 7,216                                      | 1,804                 | 9,020                   | 9,020                            | 0                       |
| Local Only  | 0  | 22,763                | 22,763                  | 22,763                           | 0                       |
| <b>Total</b>  | <b>84,588</b>                              | <b>102,349</b>        | <b>186,937</b>          | <b>186,937</b>                   | <b>0</b>                |

The FTA program for Oahu is financially constrained, as demonstrated in the following tables.

**FTA Financial Constraint (City and County of Honolulu Projects) – FFY 2011**

| FFY 2011                      | Estimated Federal Funds Available for Oahu (x\$1000) | Local Funds (x\$1000) | Total Federal Funds Prior Year Carryover (x\$1000) | Total Available FTA Funds (x\$1000) | Total Funds Programmed (x\$1000) | Federal Funds Balance (x\$1000) |
|-------------------------------|--|-----------------------|--|-------------------------------------|----------------------------------|---------------------------------|
| §5307 Urbanized Area Formula* | 35,148   | 717                   | 5,016  | 40,164                              | 5,733                            | 35,148                          |
| §5309 NS HHCTP                | 30,000   | 50,900                | 0  | 30,000                              | 80,900                           | 0                               |
| §5316 JARC Urban              | 397  | 99                    | 0  | 397                                 | 496                              | 0                               |
| §5317 NF Urban                | 268  | 208                   | 0  | 268                                 | 476                              | 0                               |
| Local Funds Only              | 0  | 406                   | 0  | 0                                   | 406                              | 0                               |
| <b>FTA Total</b>              | <b>65,813</b>  | <b>52,330</b>         | <b>5,016</b>                                       | <b>70,829</b>                       | <b>88,011</b>                    | <b>35,148</b>                   |

\*Includes §5340 Growing States and High Density States Formula Program apportionment

**FTA Financial Constraint (City and County of Honolulu Projects) – FFY 2012**

| FFY 2012                           | Estimated Federal Funds Available for Oahu (x\$1000) | Local Funds (x\$1000) | Total Federal Funds Prior Year Carryover (x\$1000) | Total Available FTA Funds (x\$1000) | Total Funds Programmed (x\$1000) | Federal Funds Balance (x\$1000) |
|------------------------------------|--|-----------------------|--|-------------------------------------|----------------------------------|---------------------------------|
| §5307 Urbanized Area Formula*      | 34,338   | 42,595                | 35,148   | 69,486                              | 99,153                           | 12,928                          |
| §5309 State of Good Repair         | 12,000   | 2,040                 | 0  | 12,000                              | 14,040                           | 0                               |
| §5337 Fixed Guideway Modernization | 2,000  | 500                   | 0  | 2,000                               | 2,500                            | 0                               |
| §5316 JARC Urban                   | 382  | 159                   | 0  | 382                                 | 159                              | 382                             |
| §5317 NF Urban                     | 248  | 243                   | 0  | 248                                 | 243                              | 248                             |
| Local Funds Only                   | 0  | 113                   | 0  | 0                                   | 113                              | 0                               |
| <b>FTA Total</b>                   | <b>48,968</b>  | <b>45,650</b>         | <b>35,148</b>                                      | <b>84,116</b>                       | <b>116,208</b>                   | <b>13,558</b>                   |

\*Includes §5340 Growing States and High Density States Formula Program apportionment

**FTA Financial Constraint (City and County of Honolulu Projects) – FFY 2013**

| <b>FFY 2013</b>                    | <b>Estimated Federal Funds Available for Oahu (x\$1000)</b> | <b>Local Funds (x\$1000)</b> | <b>Total Federal Funds Prior Year Carryover (x\$1000)</b> | <b>Total Available FTA Funds (x\$1000)</b> | <b>Total Funds Programmed (x\$1000)</b> | <b>Federal Funds Balance (x\$1000)</b> |
|------------------------------------|---|------------------------------|---|--|---|--|
| §5307 Urbanized Area Formula*      | 32,449  | 24,577                       | 18,434**  | 50,883                                     | 57,878                                  | 17,582                                 |
| §5339 Bus and Bus Facilities       | 3,491   | 873                          | 0   | 3,491                                      | 873                                     | 3,491                                  |
| §5309 Fixed Guideway Modernization | 0   | 612                          | 1,888***  | 1,888                                      | 2,500                                   | 0                                      |
| §5337 Fixed Guideway Modernization | 1,046   | 262                          | 0   | 1,046                                      | 262                                     | 1,046                                  |
| §5309 NS HHCTP                     | 505,000   | 1,190,450                    | 0   | 505,000                                    | 1,695,450                               | 0                                      |
| §5317 NF Urban                     | 0   | 246                          | 248   | 248  | 246                                     | 248                                    |
| Local Funds Only                   | 0   | 748                          | 0   | 0  | 748                                     | 0                                      |
| <b>FTA Total</b>                   | <b>541,986</b>  | <b>1,217,768</b>             | <b>20,570</b>   | <b>562,556</b>                             | <b>1,757,957</b>                        | <b>22,367</b>                          |

\*Includes §5340 Growing States and High Density States Formula Program apportionment, and JARC eligible projects.

\*\*Includes FFY 2008 Bus Preventive Maintenance carryover of \$4,200,000 from Grant HI-90-X026-01 and \$12,928,000 from FFY 2012 and §5316 JARC Urban carryover of \$382,000 and increased carryover amount of \$924,000.

\*\*\*Includes FFY 2008 Fixed Guideway Modernization carryover of \$1,888,000 from Grant HI-05-0206

**FTA Financial Constraint (City and County of Honolulu Projects) – FFY 2014**

| FFY 2014                           | Estimated Federal Funds Available for Oahu (x\$1000) | Local Funds (x\$1000) | Total Federal Funds Prior Year Carryover (x\$1000) | Total Available FTA Funds (x\$1000) | Total Funds Programmed (x\$1000) | Federal Funds Balance (x\$1000) |
|------------------------------------|--|-----------------------|--|-------------------------------------|----------------------------------|---------------------------------|
| §5307 Urbanized Area Formula*      | 30,983   | 29,764                | 17,582**   | 48,565                              | 78,329                           | 0                               |
| §5339 Bus and Bus Facilities       | 3,416  | 1,727                 | 3,491  | 6,907                               | 8,634                            | 0                               |
| §5309 State of Good Repair 2012    | 0  | 2,800                 | 5,000***   | 5,000                               | 7,800                            | 0                               |
| §5309 Fixed Guideway Modernization | 1,949  | 487                   | 0  | 1,949                               | 2,436                            | 0                               |
| §5337 State of Good Repair         | 1,110  | 540                   | 1,046  | 2,156                               | 2,696                            | 0                               |
| §5317 NF Urban                     | 0  | 248                   | 248  | 248                                 | 496                              | 0                               |
| Local Funds Only                   | 0  | 5,880                 | 0  |                                     | 5,880                            | 0                               |
| <b>FTA Total</b>                   | <b>37,458</b>  | <b>41,446</b>         | <b>27,367</b>                                      | <b>64,825</b>                       | <b>106,271</b>                   | <b>0</b>                        |

\*Includes §5340 Growing States and High Density States Formula Program apportionment, and funding for JARC eligible projects.

\*\*Includes FFY 2008 Bus Preventive Maintenance carryover of \$4,200,000 from Grant HI-90-X026-01 and FFY 2013 carryover of \$13,000,000, and FFY 2013 carryover of \$382,000 for JARC Urban eligible projects.

\*\*\*Includes FFY 2012 §5309 SOGR carryover of \$5,000,000

**FTA Financial Constraint (State of Hawaii Projects) – FFY 2011**

| FFY 2011                      | Estimated Federal Funds Available for Oahu (x\$1000) | Local Funds (x\$1000) | Total Sources (x\$1000) | Total Funds Programmed (x\$1000) | Federal Funds Balance (x\$1000) |
|-------------------------------|--|-----------------------|-------------------------|----------------------------------|---------------------------------|
| §5316 JARC Small Urban        | 140  | 35                    | 175                     | 175                              | 0                               |
| §5317 New Freedom Small Urban | 115  | 29                    | 144                     | 144                              | 0                               |
| <b>FTA Total</b>              | <b>255</b>   | <b>64</b>             | <b>319</b>              | <b>319</b>                       | <b>0</b>                        |

**FTA Financial Constraint (State of Hawaii Projects) – FFY 2012**

| <b>FFY 2012</b>               | <b>Estimated Federal Funds Available for Oahu (x\$1000)</b> | <b>Local Funds (x\$1000)</b> | <b>Total Sources (x\$1000)</b> | <b>Total Uses (x\$1000)</b> | <b>Federal Funds Balance (x\$1000)</b> |
|-------------------------------|---|------------------------------|--------------------------------|-----------------------------|--|
| §5316 JARC Small Urban        | 70  | 70                           | 140                            | 280                         | 0                                      |
| §5317 New Freedom Small Urban | 60  | 60                           | 120                            | 120                         | 0                                      |
| <b>FTA Total</b>              | <b>130</b>  | <b>130</b>                   | <b>260</b>                     | <b>400</b>                  | <b>0</b>                               |

**FTA Financial Constraint (State of Hawaii Projects) – FFY 2013**

| <b>FFY 2013</b>  | <b>Estimated Federal Funds Available for Oahu (x\$1000)</b> | <b>Local Funds (x\$1000)</b> | <b>Total Sources (x\$1000)</b> | <b>Total Uses (x\$1000)</b> | <b>Federal Funds Balance (x\$1000)</b> |
|--|---|------------------------------|--------------------------------|-----------------------------|--|
| §5310 Elderly and Disabled Specialized Transit Program | 700   | 175                          | 875                            | 875                         | 0                                      |
| §5316 JARC Small Urban                                 | 70  | 70                           | 140                            | 140                         | 0                                      |
| §5317 New Freedom Small Urban                          | 116   | 116                          | 232                            | 232                         | 0                                      |
| <b>FTA Total</b>                                       | <b>886</b>  | <b>361</b>                   | <b>1247</b>                    | <b>1247</b>                 | <b>0</b>                               |

**FTA Financial Constraint (State of Hawaii Projects) – FFY 2014**

| <b>FFY 2014</b>  | <b>Estimated Federal Funds Available for Oahu (x\$1000)</b> | <b>Local Funds (x\$1000)</b> | <b>Total Sources (x\$1000)</b> | <b>Total Uses (x\$1000)</b> | <b>Federal Funds Balance (x\$1000)</b> |
|--|---|------------------------------|--------------------------------|-----------------------------|--|
| §5310 Elderly and Disabled Specialized Transit Program | 695   | 174                          | 869                            | 869                         | 0                                      |
| §5316 JARC Small Urban                                 | 0   | 0                            | 0                              | 0                           | 0                                      |
| §5317 New Freedom Small Urban                          | 0   | 0                            | 0                              | 0                           | 0                                      |
| <b>FTA Total</b>                                       | <b>695</b>  | <b>174</b>                   | <b>869</b>                     | <b>869</b>                  | <b>0</b>                               |





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