



Federal-Aid Functional Classification Update:

Policy and Procedures

December 2012

Prepared for:

State of Hawaii Department of Transportation

Highways Division

Planning Branch



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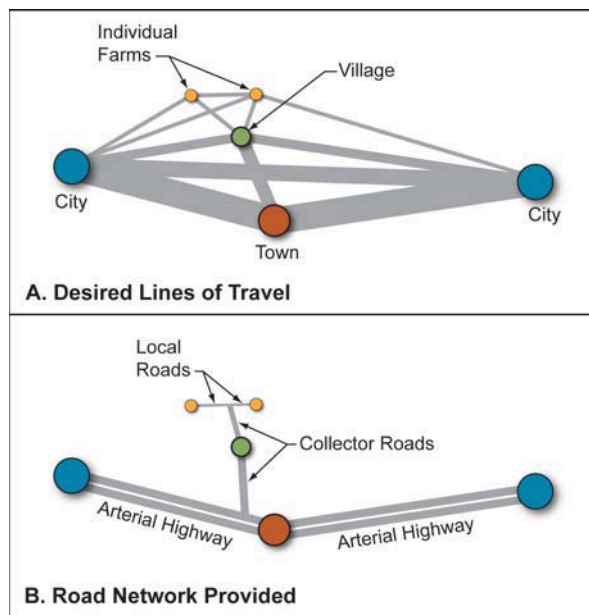
Background

The State of Hawaii is updating the urban boundary and functional classifications of statewide highways to reflect changes in population and employment growth and travel patterns that have occurred since the last update in 1993. Since 1993 each county in Hawaii has experienced substantial changes in population, density, land use boundary amendments, subdivisions, and development. All of these aspects can affect urban boundaries and the functional classification of the highway network, and the Hawaii Department of Transportation has started a process to re-evaluate and update those designations.

This Functional Classification Update Policy and Procedures memo outlines the procedures for the functional classification update process. A separate memo documenting the procedures for the Urban Boundary update has already been created. The procedures described below are consistent with federal guidance, however, it should be noted that much of the guidance is general, and states have flexibility when determining the criteria for functional classifications changes and updates.

Functional classification is the grouping of streets and highways into classes, or systems, according to the character of service they are intended to provide. All highways in the United States are functionally classified using a common nomenclature, to provide a consistently-defined roadway network across the country. Federal functional classifications are determined by State Departments of Transportation (in conjunction with local agencies) based on criteria established by the Federal Highway Administration (FHWA). Functional classification defines the nature of how travel can be channelized within a network in a logical and efficient manner by defining the part that any particular road or street should play in serving the flow of trips through a highway network. FHWA must ultimately approve the classifications. Functional classification is used for planning, design, budgeting, programming and fiscal management.

CHANNELIZATION OF TRIPS



The federal functional classifications¹ include:

Principal arterials:

- Interstate
- Other Freeways and Expressways
- Other Principal Arterials

Other types of roadways:

- Minor Arterial
- Major Collector
- Minor Collector
- Local

Federal-aid highway systems are the National Highway System and the Dwight D. Eisenhower National System of Interstate and Defense Highways (the “Interstate System”); the Interstate System is a subset of the National Highway System. *Federal-aid highways* include highways on the Federal-aid highway systems and all other public roads *not federally classified as local roads or rural minor collectors*. Federal functional classification determines the eligibility for some FHWA funding categories. Roads functionally classified as local streets or minor collectors (not part of the Federal-aid Highway System) are not normally eligible for STP funds.

Federal policy directs state DOTs to establish a classification of roads, based on function, so that roadways can be improved appropriately as funding opportunities arise. Therefore, functional classification is used in determining federal, state, regional and local priorities for roadway resurfacing or reconstruction.

Although FHWA does not provide specific policy that designates or mandates particular functional service characteristics, examples of characteristics that states commonly use as criteria to distinguish functional classifications can include but are not limited to: traffic volume, mobility & access standards, corridor length, land use, activity centers, through traffic, vehicle speed, and non-motorized access. This Policy and Procedures memo will document the specific criteria that would be applied during the functional classification update process.

Functional Classifications in Hawaii

Currently the functional classification system in Hawaii is divided into rural and urban designations, and includes interstates (on Oahu), other freeways and expressways, principal

¹ Per FHWA’s memorandum titled Guidance for the Functional Classification of Roadways (Updated), dated October 14, 2008, rural and urban designations were consolidated to ensure that roadways are classified based on their functionality rather than their location within an urban or rural area.

and minor arterials, and major and minor collectors. Hawaii's existing functional classification system is fairly similar to that of the rest of the United States; however, due to island geography and topography, Hawaii relies on belt roads around the islands much more than the mainland. This reliance and constrained geography may increase traffic on roadways designated as arterials. Being the primary road, the arterials also serve as collectors and local roads with small roads and driveways connecting directly to the principal arterial. Conversely there may be roads on small islands or in other areas that are isolated from the remaining parts of the state. These roads may not meet the specific criteria for a given classification, but still operate as an arterial or collector.

Hawaii currently has a functional classification system with the following designations:

Principal Arterials:

- Urban Interstate
- Rural Interstate
- Urban Other Freeway/Expressway
- Urban Other Principal Arterial
- Rural Other Principal Arterial

Other Roadways:

- Urban Minor Arterial
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Urban Collector
- Local Urban
- Local Rural

With this Functional Classification Update, the federal functional classifications will be used with the designation of urban and rural. The process in Appendix B shall be used to determine whether the roadway falls under the urban or rural functional classification.

Functional Classification Update Process

The proposed Functional Classification Update process included here is consistent with FHWA's *Functional Classification Guidelines*, including the *2008 Guidance for the Functional Classification of Highways (Updated)*, which is included as Appendix A. This process will be used for this Functional Classification update, but it is developed in a way that it could also be used for future revisions, or revision submittals from local jurisdictions such as counties and cities. An application and process for future revisions is described later in this section.

The functional classification update will include the following steps, which are described in greater detail below:

- (1) Review urban boundary analysis results
- (2) Map current functional classifications over adjusted urban boundary maps
- (3) Review current Functional Classification data based on criteria
- (4) Map traffic generators
- (5) Review areas where land use or travel patterns have changed since 1993
- (6) Apply criteria from Step 3 for classification of Arterials, Collectors or Local Roads per Highway Functional Classification Guidelines; and classify network
- (7) Develop functional classification justification report
- (8) Concurrence of local governments where applicable
- (9) Concurrence and acceptance of HDOT
- (10) Submittal to FHWA Division Office for approval

STEP 1. Review urban boundary analysis results

The urban boundary update will be completed in conjunction with the statewide functional classification update. The urban boundaries will help inform the functional classification update; however, recent guidance found in the *2008 Guidance for the Functional Classification of Highways (Updated)* suggests that the urban/rural classification that the urban boundary analysis informs is less important in the update process. The urban boundary analysis will show areas that have been developed, annexed or modified and could influence functional classification updates. Important aspects of changing urban boundaries to consider are changes in travel patterns or traffic conditions that may have changed based on land use and development, which will be indicated by urban boundary changes.

STEP 2. Map current functional classifications over adjusted urban boundary maps

Mapping the current functional classifications over the adjusted urban boundary maps will give a clear picture of where the urban designations have changed and will illustrate where existing functional classifications may no longer be appropriate.

STEP 3. Review current Functional Classification data based on criteria

The following criteria are modified from the State of Washington's criteria for functional classification update processes.

The criteria and explanations are as follows (additional information and criteria are provided in Appendix C):

- *Type and magnitude of travel generators.* Travel generators are facilities that create or attract vehicular traffic. There are a number of generators, and a more detailed description of each type of generator is included in Appendix B:

- Population generators - urbanized or urban area, city, or town.
 - Recreational Generators - these are generators used for leisure time and for recreational and cultural purposes.
 - Industrial Generators - primarily manufacturing and material and goods processing.
 - Commercial Generators - central business districts, shopping centers, airports, port and railway, warehousing, and terminals.
 - Governmental Generators - these include military bases, colleges, universities, governmental administrative complexes, and others.
- *Route feasibility and directness of travel.* This should be considered when there are multiple routes between areas. The route that carries more traffic should have a higher designation. Because most state roads on the neighbor islands are the only route available, this criterion was most applicable on Oahu and in the larger towns.
 - *Traffic characteristics and trip length.* Traffic characteristics are associated with trip purpose, obtained from origin-destination studies, or the service the route is intended to provide. Higher classifications are used for longer interstate travel.
 - *Spacing between types of functional classes.* In rural areas, spacing of principal and minor arterials is dictated by travel demand, but in urban areas, spacing is less to accommodate traffic flow in the central business district and between the various generator areas in the urban area. In Hawaii, there are few routes and many roadways have topographic constraints.
 - *Continuity of various functional classes.* Principal and minor arterial functional classifications should be continuous unless geographical or topographical constraints dictate otherwise. Urban collectors and rural major collectors should also be continuous, but continuity is not necessary for rural minor collectors.
 - *Multiple service capability.* The ability of the roadway to accommodate other modes of transportation on the same facilities without a significant impact on normal traffic flow.
 - *Relationships of functional classes to transportation plan(s).* This is appropriate where transportation plans have been developed.
 - *Miles and travel classification control values.* Miles by functional class and travel by functional class. This is not meant to restrict travel within an area, but provide parameters. These are reported as percentages of VMT and miles.
 - *Access Spacing.* Higher order roadways (arterials, major collectors) place more emphasis on the through movement with more restricted local access, while local roads exist to primarily provide local access instead of through movement.
 - *Integration of classifications of adjoining jurisdictions.* Integration ensures that the transportation network makes sense as a whole, instead of being a mosaic of individual classifications that are not connected.

STEP 4. Map Traffic generators

This step includes information gathered in the criteria section above. The applicant should

review high origin or destination areas (described in the type and magnitude of travel generators criterion in Step 3 above), and include any other known traffic generators such as stadiums, ports, military bases, etc.

STEP 5. Review areas where land use or travel patterns have changed

This step requires a review of the travel demand model for trip generator locations, freight route locations, truck percentages, ADT or peak demand, connectivity, and trip type. The last update of the functional classification was in 1993, and many land uses have changed since then. This will provide information on where functional classifications may need to be updated. For individual updates after the general statewide update has been completed, the functional classification justification process will begin with this step and continue with the process as it is described below.

STEP 6. Apply criteria from step 3

Review all of the criteria to the specific location or network and determine where changes are warranted.

STEP 7. Develop functional classification justification report

Complete the application found in Appendix D, include maps and location information and any data gathered to address criteria in Step 3. Appendix E provides an example of a sample application. As needed, the HDOT will assign a new route number for any additions to the federal-aid system using the route numbering guidelines in Appendix G.

STEP 8. Concurrence of local governments

Local counties and/or Metropolitan Planning Organization (MPO) should provide the applicant with a letter that indicates they agree with the justification report. Examples of concurrence letters can be found in Appendix E. Concurrence represents a local jurisdiction's agreement with the proposed change. The Counties and Oahu MPO are the only local governments that need to provide concurrence. Concurrence can be reflected by the local jurisdictions participation in a decennial census update or a local jurisdictions request for the boundary change.

For the December 2012 update, a Stakeholder Technical Advisory Team (STAT) was formed with members from the HDOT, Civil Defense, Oahu MPO, FHWA, City and County of Honolulu, County of Kauai, County of Maui, and County of Hawaii. The justification of changes to the federal-aid system is shown in Appendix H. The December 2012 update of the federal-aid system is shown in Appendix J (new road lists) and Appendix K (new maps).

STEP 9. Concurrence and acceptance of HDOT

HDOT is responsible for the statewide highways in Hawaii. They must be in concurrence and accept any functional classification update or change.

STEP 10. Submittal to FHWA Division Office for approval

The final application package is submitted by the HDOT to the FHWA Division Office for approval. A flow chart of the application revision process is included in Appendix F.



Appendix A

Guidance for the Functional Classification of Roadways (Updated)

Policy Information

[FHWA](#) > Guidance for the Functional Classification of Highways (Updated)

Highway
Performance
Monitoring
System

Motor Fuel &
Highway Trust
Fund

Highway
Finance Data &
Information

National
Household
Travel Survey

Travel
Monitoring

Guidance for the Functional Classification of Highways (Updated)

U.S. Department of Transportation
Federal Highway Administration

Memorandum

Subject: INFORMATION: Updated Guidance
for the
Functional Classification of Highways

Date: October 14,
2008

From: (Original signed by)
Mary B. Phillips
Associate Administrator for Policy and
Governmental Affairs (HPL)

Reply to: HPPI-20
Attn of:

To: Division Administrators
Resource Center Directors

Introduction

The Highway Performance Monitoring System (HPMS) Reassessment 2010+ resulted in recommendations for the revision of highway functional classifications. Some of the recommended revisions will require additional study in order to provide fully validated, revised functional classification guidance.

The purpose of this memorandum and attachment is to provide interim guidance which may be used in association with *Highway Functional Classification: Concepts, Criteria and Procedures*, available online at: <http://www.fhwa.dot.gov/planning/fctoc.htm>. *Highway Functional Classification* may be considered reference material, to be superseded by this memorandum and attachment where applicable. Following completion of additional studies, a complete revision of *Highway Functional Classification* will be prepared and released.

The conversion of functional classification from the existing schema to the new schema described in Section 2 of the guidance and the coding changes for ramps described in Section 5 are both due in the reporting of 2009 data submitted to Federal Highway Administration (FHWA) in 2010. The adjustment of functional classifications and urban/urbanized boundaries following the 2010 Census should be included in the reporting of 2012 HPMS data reported in 2013. Any functional classification changes resulting from the revision/rewrite of the functional classification guidance would be included in data reported in 2013 and optional for any earlier HPMS submittals.

We recognized that in many States or Metropolitan Planning Offices (MPOs), the process of updating highway functional classification is an ongoing process, with some States just now completing the updates to urban boundaries and functional classification triggered by the 2000 Census. The hope is that by 2012 the 2010 Decennial Census data will be available, and States will use this updated

information as they undertake a thorough update of their highway functional classification.

The intended users of this guidance are the State Department of Transportation coordinators, planners and technicians in the areas of functional classification and HPMS, as well as appropriate FHWA staff.

Background

The functional classification of the nation's highways, roads and streets provides important inputs into the HPMS program and into the apportionment of federal funds, such as for the National Highway System (NHS) and Surface Transportation Program (STP). However, functional classification is also used for many other transportation planning and public policy purposes within the States, MPOs, and local communities.

The focus of this interim guidance is on functional classification as it is related to HPMS data reporting requirements and the apportionment process. Other aspects of functional classification will be considered in any future update of *Highway Functional Classification*. States are expected to report functional classification data consistent with HPMS data requirements. As always, States and local communities may continue to use functional classification as needed according to their specific requirements provided they do not conflict with the HPMS requirements.

HPMS Reassessment Project: Results for Highway Functional Classification

The following subjects are considered in the attachment.

1. Routes Crossing Between Rural and Urban Areas
2. Consolidation of Rural and Urban Designations in Functional Classifications
3. Extent Analysis (mileage and vehicle-miles traveled (VMT) percentage ranges)
4. Clarification: "Future Year" and "Future Route"
5. Ramps and Other Non-mainline Roadways

If you have any comments or need additional information, please contact Paul Svercl at 202-366-5036.

Attachment

INTERIM GUIDANCE ***Highway Functional Classification: Concepts, Criteria and Procedures*** **Revisions as a Result of the 2010 HPMS Reassessment Project**

The following subjects are considered in turn.

1. Routes Crossing Between Rural and Urban Areas
2. Consolidation of Rural and Urban Designations in Functional Classifications

3. Extent Analysis (mileage and vehicle-miles traveled (VMT) percentage ranges)
4. Clarification: "Future Year" and "Future Route"
5. Ramps and Other Non-mainline Roadways

The conversion of functional classification from the existing schema to the new schema described in Section 2 and the coding changes for ramps described in Section 5 are both due in the reporting of 2009 data submitted to FHWA in 2010. The adjustment of functional classifications and urban/urbanized boundaries following the 2010 Census should be included in the reporting of 2012 HPMS data reported in 2013. Any functional classification changes resulting from the revision/rewrite of the functional classification guidance would be included in data reported in 2013 and optional for any earlier HPMS submittals.

1. Routes crossing between Rural and Urban Areas

Functional classification should not automatically change at the rural/urban boundary. In consolidating the rural and urban designations within functional classification, the urban boundary itself will remain. 23 USC 101(a)(36)-(37) provides for urban boundaries "to be fixed by responsible State and local officials in cooperation with each other." However, one of the goals of this interim guidance is to de-emphasize the urban boundary as being determinative of functional classification. That is, functional classifications should be assigned based on actual functional criteria, rather than the location of an urban/rural boundary.

States should follow the guidance provided in the 1991 Addendum of *Highway Functional Classification* wherever possible, which states:

The *Highway Functional Classification* provides for rural routes (other than Principal Arterials) to be upgraded to a higher classification level when they cross an urban boundary. Although the principle is sound, rigid application has presented difficulties for some States. Accordingly, this addendum [1991] to the guidelines is intended to provide greater flexibility for deciding on an appropriate place for changing the functional classification when rural routes cross an urban boundary, taking into account changes in traffic conditions, the degree of urban development and other factors. Instead of automatically upgrading the functional classification of a rural route that crosses an urban boundary, the rural classification may be continued inside the urban boundary until there is a more logical and acceptable place for a change.

As of this interim guidance, the practice of automatically upgrading the functional classification of a rural route that crosses an urban boundary should be phased out and eliminated. Upgrading due to actual change in function should be the operative criteria.

Census and Adjusted Urbanized/Small Urban Boundary

Once routes have been assigned the appropriate "rural/urban neutral" functional classification, urbanized and small urban boundaries may be determined in a separate process. States have the option of using Census-defined boundaries only, or they may *adjust* the Census-defined boundaries to be more consistent with transportation planning

requirements. The adjusted urbanized/small urban boundaries should be "smoothed" to include areas which are urban in nature but lacking in population density (such as airports, industrial parks, regional shopping centers and other urban attractions).

2. Consolidation of Rural and Urban Designations in Functional Classifications

Existing guidance in *Highway Functional Classification* makes distinctions in all respects – concepts, criteria, and procedures – between rural and urban classifications. As of this interim guidance, the continuity and connectivity of the basic functional systems is retained and emphasized. However, through HPMS reassessment, there is a reduced emphasis on the rural/urban distinction as exemplified in the functional classification name changes (e.g., Interstate, in place of rural Interstate and urban Interstate). The review and update of urban boundaries will continue to take place, but as a separate, Census-based process (see Section 1).

The differences in the nature and intensity of development between rural and urban areas will cause roads with the same classification to have characteristics that are somewhat different, depending on whether they are in rural, small urban or urbanized areas. Thus, the qualitative narrative in *Highway Functional Classification* is useful and valid.

The consolidation of rural and urban designations means that some functional classifications that previously existed in only one area-type will now be recognized as valid in all area-types.

- a. Other Freeways and Expressways were previously identified in small urban or urbanized areas only. As of this interim guidance, this classification can be extended into rural areas, where facilities of these functional and design characteristics exist. Beginning in 2010, all existing Other Freeways and Expressways (Principal Arterials) as of December 31, 2009, should be identified and reported by the States. Additional study is needed to determine if the States are consistent in their identification of Other Freeways and Expressways and whether and how greater consistency could be achieved.
- b. Major and Minor Collectors were previously identified in rural areas only, while in small urban and urbanized areas, the corresponding classification was simply, Collectors (urban Collectors). As of this interim guidance, States may continue to classify Major and Minor Collectors in rural areas in the same manner as they have in the past. Beginning in 2010, all existing urban Collectors as of December 31, 2009 are to be reported in HPMS as Major Collectors. At their option, States may identify Minor Collectors within small urban or urbanized areas from this "pool" of existing Major Collectors*. Additional study is needed to determine what qualitative similarities and differences exist between Minor Collectors in rural areas and those in small urban or urbanized areas.
- c. Information [23 CFR 1.5 and 1.7] about whether the route is in a rural or small urban or urbanized area shall be reported separately in HPMS with a rural-urban designation as well as geo-spatially.

Based on these changes to functional classification, the following revised functional classification codes should be used beginning with the 2009 data, reported in 2010.

Revised HPMS Functional Classification Codes:

- 1 = Interstate
- 2 = Other Freeways and Expressways
- 3 = Other Principal Arterial
- 4 = Minor Arterial
- 5 = Major Collector
- 6 = Minor Collector
- 7 = Local

* The definition of Federal-Aid Highways in 23 USC 101 (a)(5) is unchanged by this revision to functional classification labels. Rural Minor Collectors (or Minor Collectors located in rural areas) will remain excluded by the definition of Federal-Aid Highways (unless on the National Highway System (NHS)), while urban Minor Collectors (or Minor Collectors located in small urban or urbanized areas) will be included in the definition of Federal-Aid Highways. See Section 1 for information as to how rural and urban data will continue to be maintained.

3. Extent analysis (mileage and VMT percentage ranges)

The consolidation of rural and urban designations in functional classifications impacts the validity of the information provided in *Highway Functional Classification* about the extent of functional systems, both in terms of mileage and VMT. While these percentages were guidelines, additional study is needed to determine how valid the existing extent guidance may be, how it may be adapted to the rural/urban neutral "world," and what, if any, different extent guidance should be provided in the future. Until additional study is completed, States should adhere to the simplified extent guidance, below, that affects the lane mileage and VMT apportionment factors:

Related to the apportionments on the Surface Transportation Program (STP) and Highway Safety Improvement Programs (HSIP):

All Arterials and Collectors combined – maximum of 35 percent of statewide route mileage. (Rural Minor Collector mileage and VMT does not contribute, but it is included here as "Collectors" because the existing extent guidance does not break out any separate guidance for them.)

All Arterials and Collectors combined – between 70 percent and 80 percent of statewide VMT.

Related to NHS apportionment:

Rural Principal Arterials – maximum of 4 percent of statewide route mileage and between 30 percent and 55 percent of statewide VMT.

Urban Principal Arterials – maximum of 10 percent of statewide route mileage and between 40 percent and 65 percent of statewide VMT.

Although rural and urban Principal Arterials will be consolidated into Principal Arterials, rural and urban data will continue to be created in the HPMS database by combining functional class and rural/urban designation codes.

Note that the extent guidance in *Highway Functional Classification* is intended to be applied on a **statewide** basis, rather than by county, or by individual urbanized or small urban area. Any future extent guidance resulting from additional study will also be provided on the premise that it is for statewide application.

4. Clarification: "Future Year" and "Future Route"

Future Year

The existing guidance, *Highway Functional Classification*, contains over 30 references to the phrase, "future year." In none of these instances does the guidance provide a range of years out to which States may project "future year" classifications, except to say that, "The base for a "future year" population should be the most recent Decennial Census" (page III-2) (or special Census). In practice, most States have used the current year for designating functional classifications. Other States have projected "future year" classifications three to five years out; some have projected out considerably longer.

A wide variability in the use of the "future year" concept has implications for HPMS data consistency across the nation, as well as for federal funding opportunities (mileage eligible for federal assistance and included in the apportionment formulas). In order to improve consistency in this area, it is recommended that States assign functional classification according to the current year.

Future Route

One of the references to a "future year" functional classification plan in *Highway Functional Classification* includes the following: "it will include, in addition to existing facilities, such projected totally new facilities as will be needed to serve "future year" land use and travel. Some of this new mileage will consist of new streets in expanding urban areas." (Page III-1) This is a reference to "future routes." The "future route" is an individual, unbuilt facility, planned to function at a specific level once built. The 1991 Addendum to *Highway Functional Classification* recognized that additional guidance was needed for "future routes," as distinct from "future year" functional classifications. As stated in the 1991 Addendum to *Highway Functional Classification*:

The manual discusses procedures for conducting a functional classification based on projected facilities and usage for some "future year"; however, the manual does not provide criteria for including future or proposed routes into a functional classification of existing facilities. Because the functional classification will support the designation of the NHS which is expected to include some future routes, this addendum establishes criteria

for determining which future routes should be included in the functional classification of existing routes. Future routes should be functionally classified with the existing system if they are included in an approved short range improvement program and there is a good probability that the route will be under construction in the reasonably near future (up to 6 years). Where applicable, the same classification should be given to the future route and to the existing route that it will replace until the future route is constructed.

The "up to 6 years" timeframe given in the preceding paragraph mentions "an approved short range improvement program" but does not specify the Statewide Transportation Improvement Program (STIP). As of this interim guidance, the timeframe in which the "future route" is expected to be under construction should generally be consistent with the STIP timeframe of 4 years or less.

Note that the mileage of a "future route" should not be included in public road mileage or lane-miles or vehicle-miles traveled for apportionment purposes until it is built and open to traffic. In addition, for HPMS reporting purposes, only data about a "future route" which is to become part of the NHS should be reported. At their option, States may propose other "future routes" to be part of their functional classification system, i.e., routes which will be eligible for STP rather than NHS. If using this option, States would be in compliance with the above guidance.

5. Ramps and Other Non-mainline Roadways

Beginning with the reporting of 2009 HPMS data in 2010, data for ramps and other non-mainline roadways **should be reported** for those meeting the ramp criteria described below. As noted, data for these roadways should include functional classification. Additional data requirements for ramps will be specified in the final HPMS Reassessment Report and revised *HPMS Field Manual*.

Ramps

- Associated with grade-separated interchanges
- Turning movement facility that moves traffic between two or more (functionally classified) facilities; may include collector-distributor (CD) roads
- Assigned same functional classification as the highest facility served within the interchange

Note that at this time, there is no change to the status of ramps with respect to public road mileage or lane mileage or vehicle-miles traveled for apportionment purposes; they are not considered mainline and are not included in those public road mileage inventories.

Other Non-mainline Roadways

At their option, States may collect data and assign functional classifications to other kinds of non-mainline roadways. These may include other collector-distributor roads, other turning movement facilities not associated with a grade-separated interchange, and other auxiliary roadways. In general, such roadways within the interchanges should be assigned the same functional classification as the highest facility served. However, since many configurations exist, States may assign the functional classification as they deem appropriate. While data for other non-mainline roadways is not required for HPMS, States

have the option of reporting it beginning with the 2009 HPMS data reported in 2010.

Updated: 04/05/2011

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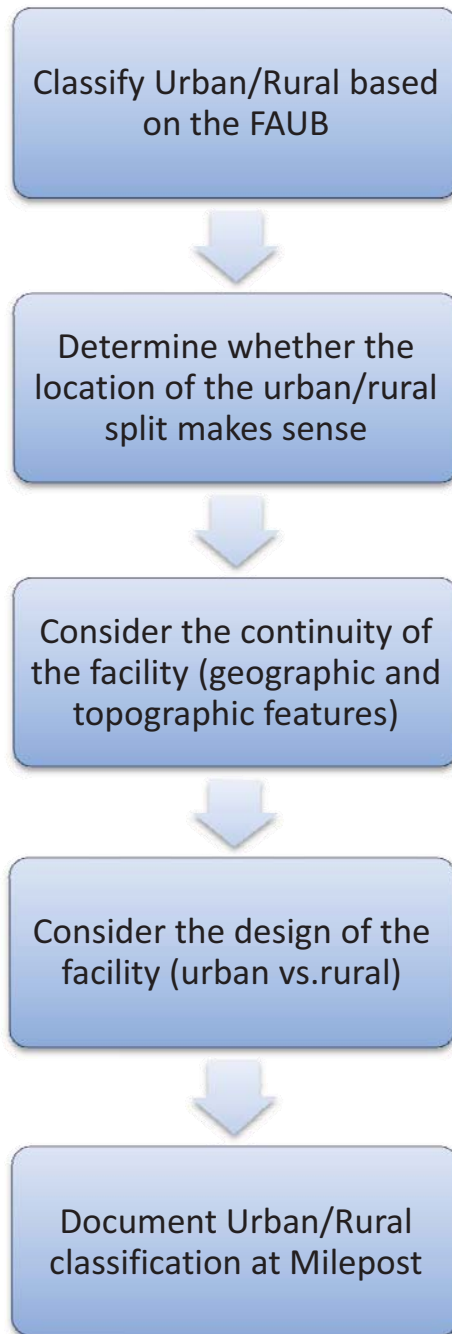


United States Department of Transportation - **Federal Highway Administration**



Appendix B

Urban vs. Rural Decision Process





Appendix C

Detailed Functional Classification Criteria

Introduction

Development of new and/or changes of existing functional classifications are based on an evaluation of the following criteria:

- • Type and magnitude of travel generators.
- • Route feasibility and directness of travel.
- • Traffic characteristics and trip length.
- • Spacing between types of functional classes.
- • Continuity of various functional classes.
- • Multiple service capability (accommodation of other modes of transportation).
- • Relationships of functional classes to transportation plan(s).
- • Miles and travel classification control values.
- • Access Spacing.
- • Integration of classifications of adjoining jurisdictions.

Travel Generators

Any facility that creates or attracts vehicular traffic movements is a travel generator. The travel generators to be used in the classification process have been ranked and the parameters for each functional class have been established. Listed below are the travel generators and the parameters to be used in the functional classification process.

Population Generators

A population generator is defined as any designated urbanized or urban area or incorporated city or town not within an urban area. The population of a place generally reflects its economic importance and capacity for generating and attracting travel; therefore, the greater the population, the higher the classification of the facility serving it. Generators of similar population and economic importance should be served by routes of the same functional classification. The functionally classified network required for connecting the appropriate population generators has been established as follows:

TABLE 1
Population Generator Levels

Area Type	Functional Classification/Population			
	Principal Arterials	Minor Arterials	Collectors	
			Major	Minor
Rural	Over 30,000	10,000-30,000	1,500-10,000	Under 1,500
Urban*	Over 10,000	5,000-10,000		Under 5,000

TABLE 1
Population Generator Levels

Area Type	Functional Classification/Population			
	Principal Arterials	Minor Arterials	Collectors	
			Major	Minor
Rural	Over 30,000	10,000-30,000	1,500-10,000	Under 1,500

* In the urbanized and urban areas, consideration is to be given for connecting only those population generators within the established federal urban area boundary

Recreational/Cultural Generators

These traffic generators are used by society during its leisure time for recreational and cultural purposes. Included are parks, beaches, national and state forests, civic centers, stadiums, historical sites and monuments, outdoor theaters, state and county exhibition halls, tourist attractions, and other facilities. For this type of travel generator, annual visitations are converted to population equivalencies.

If several recreational travel generators are located closely together or can be served by only one possible route, such as in a coastal peninsula or mountainous area, the visitations may be combined in the ranking process, and areas that are mixed recreational and residential (i.e. areas like Waikiki and Kaanapali), the trip equivalencies are determined for the recreational areas, and grouped with the expected trips generated by the residential areas. Annual recreational generator visitations are to be reduced to a population equivalency by the following graph. Enter the chart at the bottom with the appropriate number of annual visitations and read on the left the population equivalency at the point where the vertical visitation line intersects the curve. Enter this population equivalency value into the appropriate area of the population rankings (see following Tables 8 and 9).

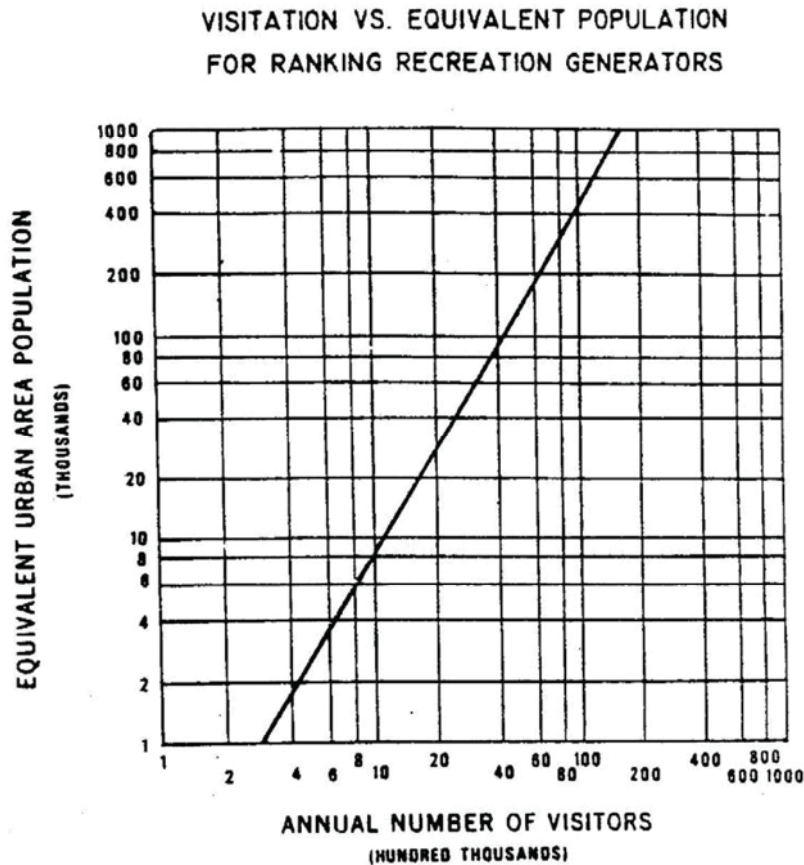


Figure is from FHWA Functional Classification Guidelines: Concepts, Criteria and Procedures (Revised 1989) Section III

Industrial Generators

Industrial generators are facilities having as their prime function the manufacture and/or processing of material and goods. With few exceptions, most industrial generators will be contained within or in close proximity to urban areas where transportation modes for the processed goods as well as an adequate labor force are available. The impact of the industrial generators must be considered in the urban areas where they exist, while rural classification evaluation may in most cases disregard this element. It is to be considered in the functional classification of rural facilities when a high level of activity is maintained over a reasonably long period of time, e.g., the hauling of agricultural products.

The following subcategories and employment figures are to be used in the evaluation of industrial generators.

- • Large — a complex with an aggregate employment in excess of 3,000.
- • Medium — a complex with an aggregate employment between 1,000 and 3,000.
- • Small — a complex or facility with employment less than 1,000.

Commercial Generators

Included in this category are the central business district, shopping centers, airports, port and railway warehousing, and terminals. Commercial generators are also storage or warehousing areas from which distribution is made to retail outlets and includes processing plants such as fruit packing and storage warehouses and creameries. An area to be considered within this category must be definable with concentrated retail goods and personal services outlets, distribution centers or processing plants, or a combination thereof. The following subcategories and parameters are to be used in the evaluation of commercial generators.

Shopping Centers and Central Business Districts (CBD)

- Regional — an area with three or more department stores and 75 or more support retail and/or personal service outlets.
- Community an area with at least one department store and between 25 and 75 support retail and/or personal service outlets.
- Neighborhood — an area having at least one supermarket as the major outlet and other facilities limited to day-to-day needs and personal services.

Ports and/or Railway Terminals

- Major — those facilities handling in excess of 4,000,000 tons annually.
- Minor — those facilities handling between 1,000,000 and 4,000,000 tons annually.
- Other — those facilities handling between 250,000 and 1,000,000 tons annually

Transit

- Central or significant transit centers and/or stations.
- Transit Oriented Development (TOD)

Airports

The terms and parameters listed are extracts from the report of the State Aeronautics Commission for the establishment of the Statewide Airport Plan.

- Primary — airports handling over 1,000,000 passenger boardings, or 250,000 aircraft operations (take offs or landings), or 50,000 tons of air cargo annually.
- Secondary — airports handling between 50,000 to 1,000,000 passenger boardings, or 100,000 to 250,000 aircraft operations, or 5,000 to 50,000 tons of air cargo annually.
- Feeder — airports handling less than 50,000 passenger boardings, or 100,000 aircraft operations or 5,000 tons of air cargo annually.

Resorts Areas

Refer to the most recent edition of the ITE Trip Generation Manual to determine generation rates for resort hotels (current rate is 0.42 trips per unit).

Governmental Generators

This group of travel generators includes military bases, colleges, universities, governmental administrative complexes, and others. For military establishments, a combination of military and civilian resident population and the employed civilian support personnel should be considered in estimating population.

For defining the population of civil (city, county, state and federal) administrative complexes, consider those personnel whose main function is performed within the complex.

Educational/Institutional facilities are universities, colleges, vocational and technical institutes, schools, hospitals, penal institutions, etc. Population values are given as the appropriate aggregate of on-campus students, staff, patients, inmates and support personnel.

The size of governmental generators to be served by each functional class has been established as indicated in the table below:

TABLE 2
Guidelines for Government Generators

Type of Travel Generator	Functional Classification/Population		
	Principal Arterial	Minor Arterial	Collector
Military (urban)	Over 20,000	10,000-20,000	Under 10,000
Civil (urban)	Over 1,500	100-1,500	Under 100
Educational/Institutional (urban)	Over 5,000	1,000-5,000	Under 1,000

Feasibility of Route and Directness of Travel

The feasibility of route and directness of travel are considered where a choice of routes exist. The higher functional classification is assigned to the route having the larger volume of traffic, higher degree of development, and ability to accommodate further development along the existing alignment. Because most state roads on Maui, Kauai, and Hawaii are the only route available, this criterion is most applicable on Oahu and the larger cities on the neighbor islands.

Traffic Characteristics and Trip Length

The term traffic characteristic is used to more clearly associate with trip purpose rather than traffic composition measures like percentage of trucks, pickups, passenger vehicles, etc. Basic information for evaluating this element is data obtained in origin-destination studies. When such data are not available, the evaluation is to be made on the design and/or basis of the service the route is intended to provide.

In rural areas principal arterials should be used for longer trips in most, if not all, cases. The major portion of shorter county travel is served by minor arterials. These facilities that service longer trips will generally be longer and may entirely cross the county, providing service for relatively long trips. Major collectors provide for the shorter trips and serve as the major feeder system to the principal and minor arterials. Minor collectors provide for shorter intracounty travel not satisfied by higher classifications, on a facility with a higher design than that on the local access roads. The general intended length of service is as follows:

TABLE 3
Rural Functional Classification Guidelines – Type of Travel Service

Functional Classification	Principal Arterial	Minor Arterial	Collector	
			Major	Minor
Length of travel	Greater than 8 miles	Medium-to short trips (2-6 miles depending on development density)	Short trips (1-4 miles depending on development density)	Short trips (1-4 miles depending on development density)

In urbanized areas (over 50,000 population) consideration is to be given the trip length within the area and the connections required between travel generators in answer to travel desire as follows:

TABLE 4
Urban and Urbanized Areas Functional Classification Guidelines – Type of Travel Service

Functional Classification	Principal Arterial	Minor Arterial	Collector
Type of travel	Through trips (rural to rural) and long distance internal trips between travel generators of like value Trips greater than 5 miles	Internal trips between travel generators of like value in relatively close proximity. Medium-to-short trips (2-4 miles depending on development density)	Intraurban and local trips to a higher classified facility. Short trips (1-4 miles depending on development density)

Spacing

In rural areas, the spacing of the principal and minor arterials is dictated by travel desire and generator demands. The collectors are spaced such that all identifiable and ranked travel generators are within a reasonable driving time of a higher classification road and all county seats not served by either a principal or minor arterial are served by a rural major collector.

In urban or urbanized areas, the spacing of various functional classifications is usually less in order to accommodate traffic flow in the central business district (CBD) and between the CBD and industrial, commercial, and residential areas. The values given below indicate the minimum distance between facilities of like classification. The prime consideration in assigning functional classification is the service to the travel generators with spacing as a qualifier toward the accomplishment of service.

TABLE 5
Urban and Urbanized Areas Guideline for Functional Classification/Spacing

Location	Functional Classification/Spacing		
	Principal Arterial	Minor Arterial	Collector
CBD	1/2 mile	1/8 – 1/2 mile	1/4 mile to higher classified facility in all urban regions*
Urban Residential	1 mile	1/2 – 1 mile	
Suburban and urban fringe	1 – 5 miles	1 – 3 miles	

*In some CBDs and in other areas of like development, the spacing of collectors may be less to incorporate the downtown circulation system including consideration of adjacent streets which may act as one-way couplets

System Continuity

The principal and minor arterial functional classifications should be continuous, without any breaks, except that geographical or topographic conditions may otherwise dictate. In isolated cases, an arterial may have a beginning point at a specific travel generator (population or recreational area), but its ending termini must be at a junction with an equal or higher functionally classified facility. Continuity for urban collectors and rural major collectors is desirable and should be obtained if possible. System continuity is generally not necessary for the rural minor collectors.

Multiple Service Capability

Multiple service capability is defined as the capability of a route to accommodate other modes of transportation (movement of people or goods) on the same facility *without a* significant impact on normal traffic flow. This classification element need not be considered in the evaluation of rural facilities, except when they are in close proximity to the urban areas.

In urban areas the factors which should be considered in the evaluation of existing facilities are: (1) the impact other rubber tired transportation modes (buses, trucks, etc.) have on the normal traffic flow; (2) the capability of the route for improvement to better accommodate other modes; (3) the ability of other transportation mode use to satisfy the demand or desire and accomplish the objectives by current routings; and (4) consideration of an alternate route which would or could be improved to better accommodate other transportation modes. The route or routes, which would best accommodate other transportation modes, should generally have a higher functional class assignment than the alternate routes with all other factors in the evaluation being equal.

Relationship of Route to Transportation Plan

The relationship of routes to the regional or local transportation plan can be considered as an element in the classification evaluation process only where transportation plans has been developed. The Statewide Long-Range Land Transportation Plan is used in evaluating the state highway system. Where comprehensive long-range planning has been performed, the

higher functional classifications should be assigned to those routes having the greatest importance in the plan. The proper evaluation and assignment of functional class to the existing facilities indicates the routes performing the higher functions or service under existing conditions. In effect, this produces a current transportation plan, which does not take into consideration future growth, land use, and zoning restrictions; however, the classified facilities will generally be the “backbone” of the future transportation plan.

Classification Controls

In order to obtain balanced functionally classified systems, both rural and urban, two primary controls have been established: (1) miles by functional class; and (2) travel by functional class. In establishing these controls, it is not the intent to restrict the miles and travel within an urban area, county, or planning region to the established parameters but rather to establish statewide controls when the mileage and travel is aggregated on a rural area and urbanized and urban area basis. Geographic, topographic, and land use factors in the rural areas, coupled with size in the urban areas, will play a large part in the determination of functional classifications. Percentage parameters have been established on a statewide basis for aggregating the rural and urban systems by functional class as follows:

TABLE 6
Guidelines on Extent of Rural Functional Systems

System	Range (percent)	
	VMT	Miles
Principal arterial system	40 – 50	2 – 4
Principal arterial <i>plus</i> minor arterial road systems	45 – 75	6 – 12
Collector road system	20 – 35	20 – 25
Local road system	5 – 20	65 – 75

Extent of Mileage and Travel on Urban Systems

The following table contains guideline ranges of travel volume (VMT) and mileage of each of the four functional systems for urban and urbanized areas. Systems developed for each area using the criteria will usually fall within the percentage ranges shown.

TABLE 7
Guidelines on Extent of Urban Functional Systems

System	Range (percent)	
	VMT	Miles
Principal arterial system	40 – 65	5 – 10
Principal arterial <i>plus</i> minor arterial street systems	65 – 80	15 – 25
Collector street system	5 – 10	5 – 10
Local street system	10 – 30	65 – 80

When the mileage of the functionally classified facilities exceeds these percentages based upon the total mileage within the urban area, county, or planning region, the reasoning and rationale for the excess is to be documented and supporting information furnished. In developing these data, the following instructions are to be adhered to:

1. Rural functionally classified mileage is to include the classified facilities in rural and unincorporated areas and the classified facilities within incorporated towns or cities of 0 to 4,999 population that are not included within a federal aid urbanized or urban area boundary.
2. Urban functionally classified mileage is to include all classified facilities within incorporated cities and towns and unincorporated areas lying within the established federal urbanized or urban boundaries.

Access Spacing

Access management protects the functional integrity of the roadways system by ensuring that roadways maintain their planned movement versus access functions. Figure 1 below shows the balance between movement and increased access for a range of functional classifications. Higher order roadways, such as principal arterials have a higher degree of access control (i.e. longer driveway spacing) to preserve their movement function. Local streets have less restrictive access control because they are primarily intended to provide access to abutting properties. Access management strategies can include medians, shared driveways, relocating driveways onto side streets, or minimum spacing for driveways or roadways.

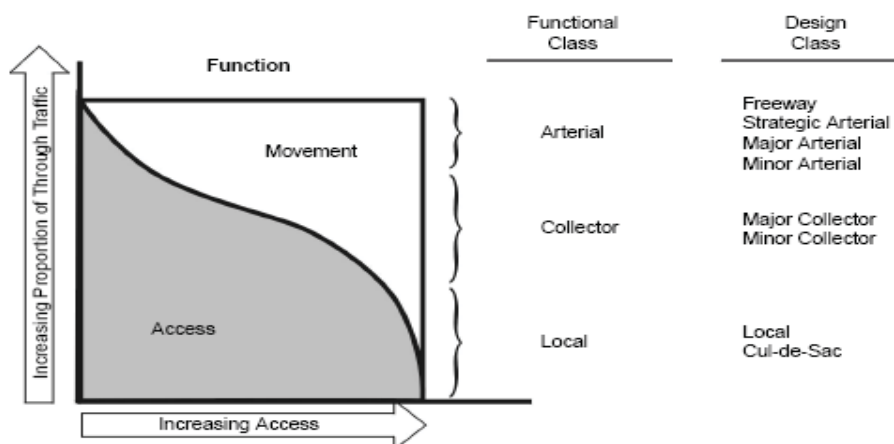


FIGURE 1
Hierarchy of Roadways in a Functionally Designed System
Source: TRB (2003).

Roadway functional classification provides a hierarchy of roads is useful in prioritizing facilities where mobility is more important than access. This functional classification hierarchy can be used as a tool to institute mobility goals on state roadways and conversely,

looking at access spacing (intersection and driveway spacing) can help to determine a roadway's functional classification.

Classification	Speed	Driveway Spacing	Signal Spacing
Principal arterial	> 45 mph	625 ft*	½ mile**
Principal Arterial	<= 45 mph	440 ft*	½ mile**
Minor arterial	> 45 mph	625 ft*	½ mile**
Minor arterial	<= 45 mph	440 ft**	½ mile**
Major collector	> 45 mph	440 ft**	¼ mile**
Major collector	<= 45 mph	245 ft**	¼ mile**
Minor collector	> 45 mph	400 ft*	¼ mile**
Minor collector	<= 45 mph	245 ft*	¼ mile**

* AASHTO guidelines

** ITE guidelines

System Integration

The final step in the classification procedure is to assemble all areas which have had the streets, roads, and highways individually classified (urban areas, counties, or regions) and to review the individual products as a whole. This final step determines the changes in functional class assignment of routes that cross the federal aid urban and/or county boundaries and consistency of functional classification with those of adjoining states and provinces. With the resolution of these changes by the involved agencies, a unified statewide classification of streets, roads, and highways with the required continuity is established.

TABLE 8
Rural Functional Classification Criteria

Item	Functional Classification			
	Principal Arterial	Minor Arterial	Collector	
			Major	Minor
1. Mileage (% total rural miles)	2 – 4	4 – 8	2 – 25	
2. Daily vehicle miles (DVM) – percent Accumulative	40 – 50	20 – 35	15 - 25	
3. Travel generators				
a. Population (persons)	> 30,000	10,000 – 30,000	1,500 – 10,000	< 1,500
b. Recreational/cultural (population equivalencies) ^a	> 30,000	10,000 – 30,000	1,500 – 10,000	< 1,500
4. Trip length	8+ miles	2-6 miles	1-4 miles	
5. System continuity ^b	Required	Required	Desirable	
6. Directness of travel and feasibility of route	The route with the highest design standard, greatest cost benefit, and differential not greater than 10 percent in mileage is to be assigned the higher functional classification when alternate routes are available			
7. Relation to Transportation Plan	To be considered	To be considered	To be considered	
8. Access Spacing (Mobility vs. Land Access)	Greater emphasis on mobility than on land access. Little or no direct land access	Emphasis on mobility rather than on land access	Equal emphasis on mobility and land access. Direct land access predominantly to development concentrations	

^a See page C-2 and C-3 for the process used to equate visitations to population

^b Subject to specific conditions such as natural barriers

> greater than

< less than

TABLE 9
Urban Functional Classification Criteria

Item	Functional Classification		
	Principal Arterial	Minor Arterial	Collector
1. Mileage (percent of total urban miles)	5 – 10	10 – 15	5 – 10
2. Daily vehicle miles of travel (DVM) – percent accumulative	40 – 65	15 – 25	5 – 10
3. Travel generators			
a. Population (people)	> 10,000	5,000 – 10,000	< 5,000
b. Industrial	3,000 employees	1,000 – 3,000 employees	1,000 employees
c. Commercial			
Shopping centers and CBDs (population equivalencies) ^a	Regional > 4,000,000	Community 1,000,000 – 4,000,000	Neighborhood 250,000 – 1,000,000
Ports and terminals (Annual tons)	Primary	Secondary	Feeder
Airports (population equivalencies) ^a	> 10,000	5,000 – 10,000	< 5,000
d. Recreational/cultural (population equivalencies) ^a			
e. Governmental	> 20,000	10,000 – 20,000	< 10,000
Military (population)	> 1,500	100 – 1,500	< 100
Civil (population)	> 5,000	1,000 – 5,000	< 1,000
Educational/institutional (population)			
4. Feasibility of route and directness of travel	The route with the highest design standard, greatest cost benefit, and differential not greater than 10 percent in mileage is to be assigned the higher functional classification when alternate routes are available		
5. Traffic characteristics and trip length	b 8+ miles	c 2-6 miles	d 1-4 miles
6. Spacing (miles)	1/2 in CBD; 1 in urban residential; 1 – 5 in suburban and urban fringe	1/8 – 1/2 in CBD; 1/2 – 1 in urban; 1 – 3 in suburban and urban fringe	Not less than 1/4 mile from higher classified arterials
7. System Continuity ^e	Required	Required	Desirable
8. Multiple Services	Surface type mass transit systems and intermodal connections	Limited transit services	Not applicable

TABLE 9
Urban Functional Classification Criteria

Item	Functional Classification		
	Principal Arterial	Minor Arterial	Collector
9. Relation to Transportation Plan	To be considered	To be considered	To be considered
10. Access Spacing (Mobility vs. Land Access)	Greater emphasis on mobility than on land access. Little or no direct land access	Emphasis on mobility rather than on land access. Direct land access restricted to concentrations of commercial/industrial land uses	Equal emphasis on mobility and land access. Direct land access predominantly to development concentrations

^a Population or population equivalencies (see page C-2 and C-3)

^b Through trips and long distance internal trips between travel generators of like value

^c Intergenerator trips between generators of like value in relatively close proximity

^d Intraurban and local trips to higher classified facilities

^e Subject to specific conditions such as natural barriers

> greater than

< less than



Appendix D

Functional Classification Revision

Application

FEDERAL FUNCTIONAL CLASSIFICATION REQUESTS

This form has been developed for use in all future requests for Federal Functional classification changes.

One form should be completed and submitted for each requested classification change. Functional classification changes require coordination with the Oahu MPO, if applicable.

Upon completion of the requested forms they should be submitted to the HDOT with a concurrence letter from the local government and any necessary maps or narrative to support the change.

1. COUNTY or CITY NAME	COUNTY or CITY NO. <i>(refer to Local Agency Guidelines)</i>
2. LOCAL AGENCY CONTACT PERSON	TELEPHONE NO.
3. LOCAL NAME OF ROUTE	ROUTE NO. <i>(if State Route use SR No.)</i>
4. TERMINI OF ROUTE <i>(Description and milepost (if available))</i> FROM _____ TO _____ LENGTH: Miles _____	
5. TYPE OF AREA <i>(Federal Aid Highway Urban Area):</i> <input type="checkbox"/> URBAN <input type="checkbox"/> RURAL	
6. EXISTING FUNCTIONAL CLASSIFICATION	PROPOSED FEDERAL FUNCTIONAL CLASSIFICATION
<i>(Urban Freeway/Expressway, Principal Arterial, Minor Arterial, Collector, Rural Major Collector, Rural Minor Collector, Local Access)</i>	
7. SPACING <i>(Distance to parallel Federal functionally classified route)</i> Miles: _____	
8. Average Trip Length _____	
9. EXISTING OR PROPOSED ROAD CHARACTERISTICS Roadway Width (incl. shoulders): _____ ft. Surfacing Type <i>(mark appropriate space)</i> <input type="checkbox"/> Gravel <input type="checkbox"/> ACP <input type="checkbox"/> BST <input type="checkbox"/> Earth <input type="checkbox"/> Other:	
10. TRAFFIC GENERATORS <i>(Generators that route serves – est. VPD)</i> INDUSTRIAL: Employees _____ VPD _____ AIRPORTS: Annual Flights _____ VPD _____	SHIPPING POINTS: Annual Tons _____ RECREATIONAL: Annual Visitors _____ <i>(parks, lakes, beaches, etc.)</i> AGRICULTURE AREAS: _____

MILITARY INSTALLATIONS: Type _____ VPD _____	COLLEGE OR UNIVERSITY: Enrollment _____
SHOPPING CENTER: No. Stores _____ VPD _____	GOV. INSTITUTION: VPD _____
OTHER: Type _____ VPD _____	

11. Are there zoning ordinances which can restrict growth or encourage growth of any of the above generators? Please indicate below.

12. TRAFFIC (at significant volume change locations)	
Location _____ Existing Traffic _____	Location _____ Existing Traffic _____ VPD
Future Traffic (20 years) _____ VPD	Future Traffic (20 years) _____ VPD

13. Written description of route *(general characteristics including alignment, speed limit and how it relates to the surrounding area in terms of importance.)*

14. A brief description why the proposed change is requested and justification for the change.

15. Additional remarks to more fully explain the situation.

16. Attach a vicinity map showing the **proposed changes**, and **existing Federal Functional Classifications**.



Appendix E

Sample Functional Classification

Application (with concurrency letters)

SAMPLE SUBMITTAL LETTER

December 12, 2012

State of Hawaii Department of Transportation
Highways Division, Planning Branch
869 Punchbowl Street, Room 301
Honolulu, Hawaii 96813

Re: Functional Classification Request for the City and County of Honolulu

Dear Planning Branch Engineering Manager,

The City concurs with the recommendations of the addition of Rainbow Road to the federal-aid system and would like to apply for the functional classification request. The area surrounding Rainbow Road is anticipated to have significant future growth and the addition of Rainbow Road will support the regional transportation system and the existing hierarchy of roadways in the area.

Enclosed for your review and consideration are:

1. Functional Classification Request Form with map
2. Oahu Metropolitan Planning Organization concurrence letter

Should you have any questions, please don't hesitate to contact me at 808-123-4567.

Sincerely,

Department of Transportation Services Director,
City and County of Honolulu

SAMPLE APPLICATION

FEDERAL FUNCTIONAL CLASSIFICATION REQUESTS

This form has been developed for use in all future requests for Federal Functional classification changes. One form should be completed and submitted for each requested classification change. Functional classification changes require coordination with the Oahu MPO, if applicable. Upon completion of the requested forms they should be submitted to the HDOT with a concurrence letter from the local government and any necessary maps or narrative to support the change.

1. COUNTY or CITY NAME City and County of Honolulu		COUNTY or CITY NO. <i>(refer to Local Agency Guidelines)</i>
2. LOCAL AGENCY CONTACT PERSON Keoni Doe		TELEPHONE NO. 808-555-5555
3. LOCAL NAME OF ROUTE Rainbow Road		ROUTE NO. <i>(if State Route use SR No.)</i> 7700
4. TERMINI OF ROUTE <i>(Description and milepost (if available))</i> FROM Fort Weaver Road TO Kualakai Parkway LENGTH: Miles 2		
5. TYPE OF AREA <i>(Federal Aid Highway Urban Area):</i> <input checked="" type="checkbox"/> URBAN <input type="checkbox"/> RURAL		
6. EXISTING FUNCTIONAL CLASSIFICATION N/A	PROPOSED FEDERAL FUNCTIONAL CLASSIFICATION Urban Major Collector <i>(Urban Freeway/Expressway, Principal Arterial, Minor Arterial, Collector, Rural Major Collector, Rural Minor Collector, Local Access)</i>	
7. SPACING <i>(Distance to parallel Federal functionally classified route)</i> Miles: 0.5 mile		
8. DOES REQUESTED FC CHANGE EXTEND INTO ANOTHER JURISDICTION? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>(If yes – concurrence from the other affected agency is required.)</i>		
9. EXISTING/PROPOSED ROAD CHARACTERISTICS Roadway Width (incl. shoulders): 30 ft. Surfacing Type <i>(mark appropriate space)</i> <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> ACP <input type="checkbox"/> BST <input type="checkbox"/> Earth <input type="checkbox"/> Other:		
10. TRAFFIC GENERATORS <i>(Generators that route serves – est. VPD)</i> INDUSTRIAL: Employees 250 VPD 6,000 AIRPORTS: Annual Flights N/A VPD MILITARY INSTALLATIONS: Type N/A VPD SHOPPING CENTER: No. Stores 80 VPD 10,000 OTHER: Type N/A VPD		SHIPPING POINTS: Annual Tons N/A RECREATIONAL: Annual Visitors 1,000,000 <i>(parks, lakes, beaches, etc.)</i> AGRICULTURE AREAS: N/A COLLEGE OR UNIVERSITY: Enrollment 2,050 GOV. INSTITUTION: VPD N/A
11. Are there zoning ordinances which can restrict growth or encourage growth of any of the above generators? Please indicate below. N/A		

12. TRAFFIC (at significant volume change locations)

Location **Akamai College**

Existing Traffic **10,000** VPD

Future Traffic (20 years) **55,500** VPD

Location **Ohana New Home Development**

Existing Traffic **0** VPD

Future Traffic (20 years) **94,000** VPD

13. Written description of route (general characteristics including alignment, speed limit and how it relates to the surrounding area in terms of importance.)

The proposed roadway runs east-west, parallel to the Interstate Highway H-1 and Farrington Highway on the makai side of Farrington Highway, connecting Fort Weaver Road and Fort Barrette Road. It will be a two-lane roadway with a posted speed limit of 35 mph. The surrounding area is currently undeveloped. However, the region is steadily urbanizing and slowly outgrowing existing infrastructure. The proposed roadway will proactively meet the growing demands of planned developments and support the sub-regional mobility and efficiency, and relieve congestion within the sub-regional transportation network.

14. A brief description why the proposed change is requested and justification for the change.

The proposed roadway should be classified as a major urban collector based on traffic volumes, significant trip generators and anticipated demands from planned developments. In addition, it will help to establish the hierarchy of roadways in the area.

15. Additional remarks to more fully explain the situation.

N/A

16. Attach a vicinity map showing the **proposed changes**, and **existing Federal Functional Classifications**.



SAMPLE CONCURRENCY LETTER

December 3, 2012

Department of Transportation Services
City and County of Honolulu,
650 South Street, 3rd Floor
Honolulu, Hawaii 96813

Re: Functional Classification Request for the City and County of Honolulu

Dear DTS Director,

In regards to the functional classification request for Rainbow Road, Route 7700, the Oahu Metropolitan Planning Organization (MPO) concurs with the findings and recommendations made by the City and County of Honolulu.

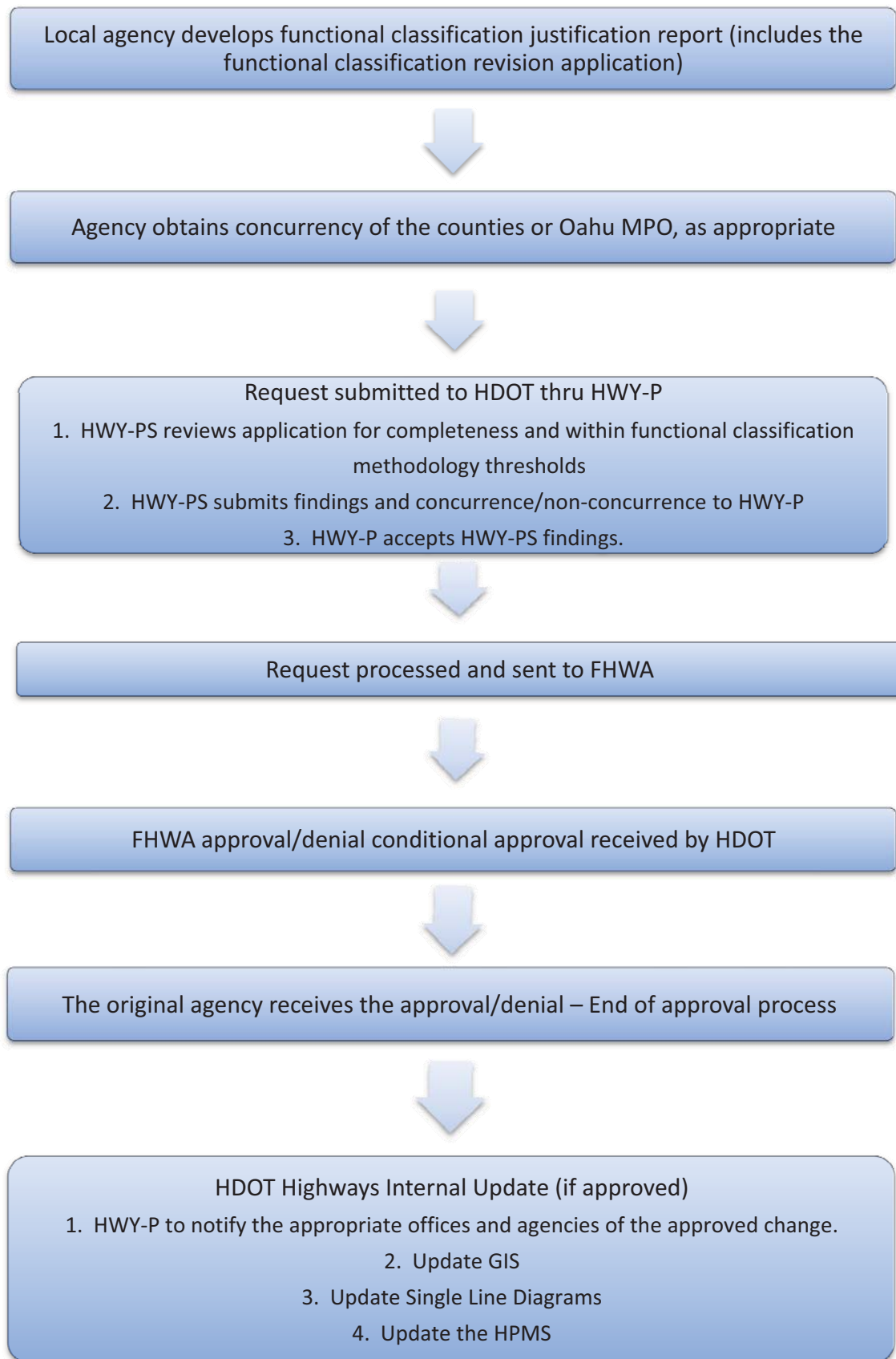
Sincerely,

Executive Director
Oahu Metropolitan Planning Organization



Appendix F

Functional Classification Revision Process





Appendix G

Route Numbering Guidelines

1.0 Introduction

1.1 Purpose

The purpose of this memorandum is to provide guidelines for the numbering of state and county routes in the state of Hawaii. The Federal Highways Administration requires that all federally funded roads be designated a route number that follows the route numbering trend of the interstate system. The following are guidelines for the state of Hawaii and set of basic rules that can aid in determining route numbers for newly constructed or future roads.

1.2 Rules for Numbering Routes

In the 1950s and 1960s, most state and county routes were numbered or renumbered to what Hawaii's system is today. The following provides guidelines based on the current numbering system. *Please note that there are many exceptions to these rules and the following statements intend to serve only as guidelines rather than absolute rules for route numbering.*

The following are general guidelines:

- -Route numbers should change when jurisdiction changes
- -Roadways should maintain one route number along the entire route
- -Roadways which are physically separate should be given different route numbers
- -A route number may remain constant along a roadway regardless of changes in urban characterization and functional classification

The interstate route numbering procedure was developed by officials of the American Association of State Highway and Transportation Officials (AASHTO). Major interstate routes are designated by one- or two- digit numbers (ex. H-1 and H-2). Connecting interstate routes and full or partial beltways around or within urban areas have a three-digit number (ex. H-201). There are currently four interstates, all on the island of Oahu, within the City and County of Honolulu: H-1, H-2, H-201 and H-3. Other numbered roads are state or county owned and are numbered based on their functional classification, rural/urban classification, and proximity to other routes. In general, a route number is not fixed and can be modified if necessary; for example, a road may change its route number if a bypass road becomes the more dominant route.

All state and county route numbers follow the same general set of guidelines and consist of 2, 3, or 4 digit numbers usually without prefixes or suffixes. The first number in the route number is determined by the island. This helps to prevent duplication of route numbers and aids in location of routes. The assigned numbers are:

- Hawaii -1, 2
- Maui -3
- Molokai/Lanai - 4
- Kauai -5

- Oahu – 6, 7, 8, 9.
- 1) Double (2) digit numbers are typically Principle Arterials or primary highways. For example, a primary highway in Maui is Route 30.
- 2) Triple (3) digit route numbers are typically Minor Arterials and Major Collectors, secondary highways. The first two digits usually are related to the major highway which it is connected to. For example, a secondary highway connected to Route 11 might be Route 110 or 115.
- 3) Four (4) digit numbers identify the collector system and minor roads. Similar to secondary highway route numbers, the first two digits usually are related to the higher classified road it is connected to. The last two digits are typically determined by proximity to other routes. For example, a newly constructed collector parallel to a collector with route number 7315 would be numbered 7316 or 7320. The numbering should also take into account future functionally classifiable routes planned nearby.

However, as mentioned above, there are many exceptions to the guidelines mentioned above. Other areas of confusion that may occur is when roadways with the same name changes route numbering or when multiple roads are encompassed by a single route number; for example King Street is Route 7410 west of Kalihi Street and Route 7402 east of Kalihi Street.

Historically, numbering of new roads is dependent on the numbering of existing surrounding roads of similar functional classification. Creating a new system which is consistent throughout the state may be difficult without renumbering many of the roadways.



Appendix H

Justification of Changes to the Federal-Aid System

Justification of Changes to the Federal-Aid System: County of Kauai

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUNCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
50	Kaumualii Highway : Rice Street (Route 5020)> Cane Haul Road (dirt road)	0.00	2.10	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Lihue	There are significant trip generators along this road. *MP 1.74 to 2.10 is now urban because it falls within the new urban boundary. *MP 1.74 to 2.10 is added to the NHS because it is an existing prinicpal arterial.
50	Kaumualii Highway : Cane Haul Road (dirt road) > Maluhia Road (Route 520)	2.10	6.69	Principal Arterial - Other	Principal Arterial	Rural	Yes	State	Koloa-Poipu-Kalaheo	Very high use, main connecting road, Collects Maluhia Road from Koloa *MP 2.10 to 6.69 is added to the NHS because it is an existing prinicpal arterial.
50	Kaumualii Highway : Omao bridge (#007000500302465) > Lele Road	8.27	17.02	Minor Arterial	Minor Arterial	Urban		State	Hanapepe-Eleele/ Koloa-Poipu-Kalaheo	Main road, access points are mostly collectors, many divert into Koloa/Poipu on alternative roads, some traffic will take Halewili instead, goes through tourist town * The entire segment is now urban because it falls within the new urban boundary.
50	Kaumualii Highway : Waimea River bridge (#007000500301039) > Bridge #4 (#007000500300570)	22.47	27.21	Minor Arterial	Minor Arterial	Urban		State	Waimea/ Hanapepe-Eleele	Waimea River Bridge to Kekaha Road: High use but many access points, Big trip generators but most not coming from West side; Kekaha Road to bridge: Lots of access points, but main road; low use because a couple alternative routes. However, road leads to a base. * The entire segment is now urban because it falls within the new urban boundary.
56	Kuhio Highway : Rice Street/Kaumualii Hwy (Route 50) > 0.11 miles past Mailihuna Road (Route 5870)	0.00	9.95	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Lihue	Kuhio Highway is the primary arterial that runs through Lihue and Kapaa. Many of its access points are collector roads. * MP 0.42 to 2.60 has been upgraded to a principal arterial and is also added to the NHS.
56	Kuhio Highway : 0.11 miles past Mailihuna Road (Route 5870) > Aliomanu Road (North connection)	9.95	15.11	Minor Arterial	Minor Arterial	Urban		State	East Kauai	Primary arterial (belt road) to the north side with many access points and collectors. * The entire segment is now urban because it falls within the new urban boundary.
520	Maluhia Road/Koloa Road : Wailaau Road > Poipu Road (Route 520)	2.77	3.35	Minor Arterial	Minor Arterial	Urban		County	Koloa-Poipu-Kalaheo	This is one of three roads that serve Koloa. For hierarchy purposes it should be a minor arterial. * The entire segment is now urban because it falls within the new urban boundary.
520	Poipu Road : Koloa Road (Route 530) > Ala Kinoiki Way (Route 522) and Pee Road	3.35	6.35	Major Collector	Major Collector	Urban		County	Koloa-Poipu-Kalaheo	* The entire segment is now urban because it falls within the new urban boundary.

Blue: Urban/Rural boundary and NHS changes

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Red: Downgrade to functional classification

Mustard: Major/Minor collector

Purple: New to federal-aid system

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521	Omao Road : Kaumualii Highway (Route 50) > Koloa Road (Route 530)	0.00	2.12	Major Collector	Minor Collector	Urban		County	Koloa-Poipu-Kalaheo	This is one of three roads that serve Koloa. For hierarchy purposes it should be a minor collector. * The entire segment is now urban because it falls within the new urban boundary.
522	Ala Kinoiki Way : Poipu Road (Route 520) > Koloa Road (Route 530)	0.00	3.32	Major Collector	Major Collector	Urban		County	Koloa-Poipu-Kalaheo	Connects Maluhia Road and Poipu Road - will connect an area expected to have increased employment in the Poipu area *MP 2.92-3.32 is the Northerly bypass, not yet built * The entire segment is now urban because it falls within the new urban boundary.
523	Lawai Road : Poipu Road (Route 520) > bridge (#XXX)	0.00	1.44	Major Collector	Major Collector	Urban		County	Koloa-Poipu-Kalaheo	Roadway provides access to homes, popular beach spot in the Poipu area; as well as the Spouting Horn attraction. A lot of growth is anticipated in this area. * The entire segment is now urban because it falls within the new urban boundary.
525	Weliweli Road : Koloa Road (Route 526) > Ala Kinoiki Way (Route 522)	0.00	0.66	Major Collector	Minor Collector	Urban		County	Koloa-Poipu-Kalaheo	Connects two major collectors, with not a lot of local access. * The entire segment is now urban because it falls within the new urban boundary.
526	Koloa Road/Waikomo Road : Maluhia Road (Route 520) > Poipu Road (Route 520)	0.00	0.76	Major Collector	Major Collector	Urban		County	Koloa-Poipu-Kalaheo	* The entire segment is now urban because it falls within the new urban boundary.
530	Koloa Road : Kaumualii Highway (Route 50) > Poipu Road (Route 520)	0.00	3.43	Major Collector	Major Collector	Urban		County	Koloa-Poipu-Kalaheo	One of three roads into Koloa, second highest use therefore for hierarchy purposes it should be a major collector. * The entire segment is now urban because it falls within the new urban boundary.
531	Papalina Road : Kaumualii Highway (Route 50) > Waha Road (Route 532)	0.00	1.21	Major Collector	Major Collector	Urban		County	Koloa-Poipu-Kalaheo	* The entire segment is now urban because it falls within the new urban boundary.
532	Waha Road : Niho Road > Koloa Road (Route 530)	0.00	2.41	Minor Collector	Minor Collector	Urban		County	Koloa-Poipu-Kalaheo	*MP 0.66 to 2.41 Should be a minor collector for continuity purposes. * The entire segment is now urban because it falls within the new urban boundary.
533	Lae Road : Puuwai Road (Route 534) > End of road at the fork	0.00	0.57	Minor Collector	Local	Urban		County	Koloa-Poipu-Kalaheo	Narrow one lane roadway that should be downgraded to a local road. * The entire segment is now urban because it falls within the new urban boundary.
534	Puuwai Road : Kaumualii Highway (Route 50) > Puulima Road	0.00	1.45	Major Collector	Minor Collector	Urban		County	Koloa-Poipu-Kalaheo	Puuwai Road should be downgraded to a minor collector because it only serves neighborhood use and deadends. * The entire segment is now urban because it falls within the new urban boundary.

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534	Puuwai Road : Kikala Road > Puulima Place	1.45	1.58	Major Collector	Local	Urban		County	Koloa-Poipu-Kalaheo	The end of portion of Puuwai Road should be removed from the federal-aid system because it only serves neighborhood use and deadends.
536	Piko Road : Kaumualii Highway (Route 50) > Koloa Road (Route 530)	0.00	0.40	Major Collector	Minor Collector	Urban		County	Koloa-Poipu-Kalaheo	Piko Road falls should be downgraded to a minor collector. * The entire segment is now urban because it falls within the new urban boundary.
540	Halewili Road : Kaumualii Highway (east junction)(Route 50) > Kaumualii Highway (west junction) (Route 50)	0.00	3.87	Major Collector	Major Collector	Rural		State	Koloa-Poipu-Kalaheo/Hanapepe-Elleele	Halewili Road remains a major collector. *MP 0.0 to 0.13 and 3.68 to 3.87 cross into a new urban boundary; however, for continuity purposes, the road will remain rural in its entirety.
541	Waialo Road : Kaumualii Highway (Route 50) > "End of State Highway" sign at Port Allen	0.00	0.37	Major Collector	Major Collector	Urban		State	Koloa-Poipu-Kalaheo/Hanapepe-Elleele	Waialo Road should remain as a major collector because it serves significant trip generators. * The entire segment is now urban because it falls within the new urban boundary.
543	Moi Road : Kaumualii Highway (Route 50) > Gate at the end of road	0.00	1.41	Major Collector	Minor Collector	Urban		County	Hanapepe-Elleele	From Hanapepe to Kaumualii will remain as a major collector, Collector for a subdivision ; local access. * The entire segment is now urban because it falls within the new urban boundary.
545	Hanapepe Road : Kaumualii Highway (west junction) (Route 50) > Kaumualii Highway (east junction) (Route 50)	0.00	0.98	Major Collector	Minor Collector	Urban		County	Hanapepe-Elleele	Connects a collector to an arterial; County will revitalize Hanapepe with Complete Streets on Hanapepe * The entire segment is now urban because it falls within the new urban boundary.
550	Waimea Canyon Drive : Kaumualii Highway (Route 50) > Nele Road	0.00	0.43	Major Collector	Major Collector	Urban		State	Waimea	Major road through Waimea; used for access to Waimea Canyon; only route that leads to some military facilities (Pacific Missile Range Satellite facilities) * The entire segment is now urban because it falls within the new urban boundary.
551	Kekaha Road/Akialoa Road : Kaumualii Highway (east junction) (Route 50) > Kaumualii Highway (west junction) (Route 50)	0.00	2.52	Major Collector	Minor Collector	Urban		County	Waimea	Runs parallel to Kaumualii Hwy, lower use and can be downgraded to minor collector; Westernmost connection of Kekaha Rd to Kaumualii Hwy * The entire segment is now urban because it falls within the new urban boundary.

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552	Alae Road/Kokee Road : Kaumualii Highway (Route 50)> Waimea Canyon Drive (Route 550)	0.00	7.55	Major Collector	Major Collector	Rural		County	Waimea	Road to Waimea Canyon Drive and military facility (Pacific Missile Range) *MP 0.0 to 0.30 (Alae Road) falls within the new urban boundary; however, the route will remain rural for continuity purposes.
553	Menehune Road : Kaumualii Highway (Route 50) > end of paved road	0.00	2.10	Major Collector	Minor Collector	Urban		County	Waimea	Only road for neighborhood, but no big trip generators; should remain a collector * The entire segment is now urban because it falls within the new urban boundary.
554	Waimea Road : Kaumualii Highway (Route 50) > Ala Wai Road	0.00	0.20	Major Collector	Minor Collector	Urban		County	Waimea	Two collectors connect to road, but have their own access to the hwy; part of County's Complete Streets revitalization plan * The entire segment is now urban because it falls within the new urban boundary.
560	Kuhio Highway : end of Route 56 > Aku Road (Route 563)	0.00	2.65	Major Collector	Minor Arterial	Rural		State	North Shore	This is a "belt road", it is the only way into Hanalei and further west, Hanalei Plantation Rd goes into Princeville
562	Kilauea Road : Mihi Road > Kilauea National Wildlife Refuge	1.16	1.71	Major Collector	Minor Collector	Rural		County	North Shore	Minimal traffic to the lighthouse
565	Weke Road : Anae Road > Hanalei Beach Park	0.00	1.09	Major Collector	Minor Collector	Rural		County	North Shore	The only road that connects out to Kuhio Highway from the beach park. Employment is expected to increase in 2035.
566	Anahola Road/Manai Road/Kukuihale Road : Kuhio Hwy (N junction) (Route 56) > Kuhio Hwy (S junction) (Route 56)	0.00	1.68	Major Collector	Major Collector	Urban		County	East Kauai	Loops through Anahola; only access to the Kuhio Highway; should remain as a major collector * The entire segment is now urban because it falls within the new urban boundary.
580	Kuamoo Road : Kuhio Highway (Route 56) > Kamalu Road (Route 581)	0.00	2.77	Major Collector	Minor Arterial	Urban		State	Lihue	One of two ways into large subdivision (Wailua Homesteads) from Kuhio Hwy, Collects a couple small roads but main road up to Wailua Homesteads * The entire segment is now urban because it falls within the new urban boundary.
580	Kuamoo Road : Kamalu Road (Route 581) > UH AGR. Station	2.77	4.81	Major Collector	Major Collector	Urban		State	Lihue	Lots of access points; remain as a major collector to Kuhio Highway * The entire segment is now urban because it falls within the new urban boundary.
580	Kuamoo Road : UH AGR. Station > Forest Reserve Sign (end of urban boundary)	4.81	6.46	Major Collector	Minor Collector	Urban		State	Lihue	Minimal generators; should be downgraded to a minor collector. * The entire segment is now urban because it falls within the new urban boundary.

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580	Kuamoo Road : Forest Reserve Sign (end of urban boundary) > Beginning of the ford crossing (end of 2 lane section)	6.46	6.68	Major Collector	Minor Collector	Rural		State	Lihue	Minimal generators; should be downgraded to a minor collector.
581	Kukui Street/Olohena Road : Kuhio Highway (Route 56) > Kamalu Road (Route 581)	0.00	3.42	Collector	Major Collector	Urban		County	East Kauai/Lihue	Most access points are local roads and serves a school.
581	Kamalu Road : Olohena Road (Route 581)> Kuamoo Road (Route 580)	3.42	5.06	Major Collector	Minor Collector	Urban		County	East Kauai/Lihue	Access points mainly local roads, not collectors. Lots of local access from homes along the route. * The entire segment is now urban because it falls
583	Maalo Road : Kuhio Highway (Route 56) > Cane Haul Road/Quarry Road (end of urban boundary)	0.00	0.92	Collector	Minor Collector	Urban		State	Lihue/East Kauai	This portion of Maalo Road serves as a collector to Kuhio Highway.
583	Maalo Road : Cane Haul Road/Quarry Road (end of urban boundary) > Wailua Falls	0.92	3.92	Major Collector	Local	Rural		State	Lihue/East Kauai	Only serves a small tourist attraction past this point.
5010	Puhi Road : Kaumualii Highway (Route 50) > Kaneka Street	0.00	0.36	Collector	Major Collector	Urban		County	Lihue	One access point is a small Minor Collector, the other is a main road.
5010	Puhi Road : Kaneka Street > Hulemalu Street	0.36	1.00	NEW	Minor Collector	Urban		County	Lihue	This is an existing road, for continuity purposes the whole road should be classified. In addition, Puhi Road provides access to an industrial area with nearby population growing. *MP 0.36 to 1.00 should remain urban for continuity purposes.
5030	Nuhou Street : Kaumualii Highway (Route 50) > Halehaka Road	0.00	1.30	Collector	Major Collector	Urban		County	Lihue	Serves large trip generators.
5035	Kalepa Street : Kaumualii Highway (Route 50) > Pikake Street	0.00	0.43	Collector	Major Collector	Urban		County	Lihue	Back road of shopping center
5040	Haleko Road : Rice Street (Route 5020) > Nawiliwili Road (Route 58)	0.00	0.68	Collector	Major Collector	Urban		County	Lihue	Parallel to Kaumualii Hwy, high use, possibly alternative route to shopping area
5710	Umi Street : Rice Street (Route 5020) > Ahukini Road (Route 570)	0.00	0.50	Collector	Minor Collector	Urban		County	Lihue	Access road for school.
5720	Hardy Street : Kuhio Highway (Route 56) > Rice Street (Route 5020)	0.00	0.70	Collector	Major Collector	Urban		County	Lihue	Collector to Rice Street & Kuhio Hwy, access points local roads
5730	Puaole Street : Umi Street (Route 5710) > Hoolako Street	0.00	0.80	Collector	Minor Collector	Urban		County	Lihue	Collects local roads for Umi St and Hoolako St.
5740	Laukona Street : Kuhio Highway (Route 56) > Laukona Street [loop]	0.00	1.05	Collector	Minor Collector	Urban		County	Lihue	Loop, serves a small neighborhood
5750	Hanamalu Road : Kuhio Highway (Route 56) > Hehi Road	0.00	0.30	Collector	Minor Collector	Urban		County	Lihue	Roadway collects local roads.
5805	Ulu Street : Kuhio Highway (Route 56) > Kukui Street (Route 581)	0.00	0.20	Collector	Minor Collector	Urban		County	East Kauai	Used to bypass Kuhio Highway
5840	Haleilio Road : Kuhio Highway (Route 56) > Kaulana Road	0.00	1.25	Collector	Minor Collector	Urban		County	East Kauai	Road serves as a neighborhood collector.
5850	Nonou Road : Haleilio Road (Route 5840) > Lanakila Road	0.00	0.57	Collector	Minor Collector	Urban		County	East Kauai	One of two routes
5860	Kawaihau Road : Kuhio Highway (Route 56) > Kapahi Road	0.00	3.00	Collector	Major Collector	Urban		County	East Kauai	One of two roads for school access

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5860	Kawaihau Road/Kaapuni Road : Kapahi Road > Olohena Road (Route 581)	3.00	4.78	Collector	Minor Collector	Urban		County	East Kauai	Collector for a subdivision, lots of local access
5865	Hauaala Road : Kuhio Highway (Route 56) > Kawaihau Road (Route 5860)	0.00	1.06	Collector	Minor Collector	Urban		County	East Kauai	Not a primary route
5870	Mailihuna Road : Kuhio Highway (Route 56) > Kawaihau Road (Route 5860)	0.00	0.57	Collector	Major Collector	Urban		County	East Kauai	Access to school from SB traffic

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Justification of Changes to the Federal-Aid System: City and County of Honolulu

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61	Kailua Road : Kalanianaʻole Highway (Route 61) > northeast end of Kawainui bridge (Bridge # 003000610401060/1)	9.50	10.60	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center/ Koolaupoko	*MP 9.50 to 10.60 is proposed to be added to the NHS because it is an exisitng principal arterial.
63	Kalihi Street : King Street (7402) > H-1 underpass	0.62	0.86	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center	*MP 0.62 to 0.86 is proposed to be added to the NHS because it is a principal arterial.
63	Likelike Highway : H-1 underpass > Kahekili Highway (Route 83)	0.86	8.28	Principal Arterial - Other Freeway	Principal Arterial - Other Freeway	Urban	Yes	State	Primary Urban Center	*MP 0.62 to 8.28 is proposed to be added to the NHS because it is a principal arterial.
64	Sand Island Parkway/Sand Island Access Road : 0.20 miles before Ulupono Street (Sand Island park entrance) > Nimitz Highway (Route 92)	0.00	2.60	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center	This road provides access to a military base and industrial area. *MP 0.00 to 0.25 is proposed to be added to the NHS because it is a principal arterial.
65	Kaneohe Bay Drive/Mokapu Saddle Road/Mokapu Boulevard : Kamehameha Highway (Route 83) > Kalaheo Avenue (Route 6012)	0.00	4.15	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Koolaupoko	Provides access to a Military Base. *MP 0.00 to 4.15 is added to the NHS because it is an existing principal arterial.
76	Fort Weaver Road: North Road (Route 7145)/Kimopelekane Road > Renton Road (Route 7146)	1.28	3.99	Minor Arterial	Principal Arterial	Urban	Yes	State	Ewa	Fort Weaver Road has 4 lanes with turn pockets in this section. *MP 1.28 to 2.11 should be upgraded from a minor arterial to a principal arterial because it has significant trip generators. *MP 1.28 to 3.99 is proposed to be added to the NHS because it is a principal arterial.
76	Fort Weaver Road/Kunia Road : Renton Road (Route 7146) > H-1 overpass	3.99	6.64	Principal Arterial - Other Freeway	Principal Arterial - Other Freeway	Urban	Yes	State	Ewa	*MP 3.99 to 6.64 is proposed to be added to the NHS because it is a principal arterial.
78	Moanalua Freeway : Ramp #2 at Aiea Interchange (Route 99) > beginning of H-1 underpass and H-1 ramp	0.00	0.74	Principal Arterial - Other Freeway	Principal Arterial - Other Freeway	Urban	Yes	State	Primary Urban Center	*MP 0.00 to 0.74 is proposed to be added to the NHS because it is a principal arterial.
83	JP Leong Highway/Kamehameha Highway/Kahekili Highway/Likelike Highway/Kamehameha Highway : Kaukonahua Road (Route 930) > Pali Highway (Route 61)	0.00	43.92	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	North Shore/ Koolauloa/ Koolaupoko	*MP 0.00 to 36.26 is now urban because it falls within the new urban boundary.
92	Kamehameha Highway/Nimitz Highway/Ala Moana Boulevard : Pearl Harbor main gate > end of Ala Wai Canal bridge (#003000920400861)	0.00	8.67	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center	*MP 0.61 to 3.94 is proposed to be added to the NHS because it is a principal arterial.
95	Kalaeloa Boulevard : Palailai overpass > Malakole Street (Route 95)	0.00	1.52	Principal Arterial - Other	Not a publicly owned road	Urban	No	Private	Ewa	This is a private road in the process of being transferred to the City, therefore it cannot be functionally classified. Remove from the Federal-aid system.
95	Malakole Street : Kalaeloa Boulevard (Route 95) > access road to storage yard	1.52	2.68	Principal Arterial - Other	Not a publicly owned road	Urban	No	Private	Ewa	This is a private road in the process of being transferred to the City, therefore it cannot be functionally classified. Remove from the Federal-aid system.
98	Olomea Street/Halona Street/Vineyard Boulevard : ramp from H-1 > on-ramp to H-1	0.00	1.76	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center	This is a private road in the process of being transferred to the City, therefore it cannot be functionally classified and cannot be on the NHS. Remove from the Federal-aid system.

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99	Kamehameha Highway/Kamananui Road : JP Leong Highway (Route 83) > Kunia Road (Route 750)	0.00	9.08	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	North Shore	Principal arterial being added to the NHS.
99	Wilikina Drive/Kamehameha Highway/Farrington Highway : Kunia Road (Route 750) > Acacia Road (Route 7228)	9.08	18.25	Principal Arterial - Other Freeway	Principal Arterial - Other Freeway	Urban	Yes	State	North Shore	*MP 11.06 to 18.25 is proposed to be added to the NHS because it is a principal arterial.
99	Kamehameha Highway : Acacia Road (Route 7228) > end of route (Pearl Harbor interchange)	18.25	23.83	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	North Shore	*MP 18.25 to 22.04 is proposed to be added to the NHS because it is a principal arterial.
750	Kunia Road : H-1 interchange > 1.06 miles past Anonui Street	0.00	2.00	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Central Oahu	Principal arterial being added to the NHS.
803	Kaukonahua Road : beginning of urban boundary > Farrington Highway (Route 930)	5.04	5.84	Minor Arterial	Minor Arterial	Urban		County	Central Oahu/Waianae	*MP 5.04 to 5.84 is now urban because it falls within the new urban boundary.
901	Fort Barrette Road : Naval Reservation gate > Makakilo overpass	0.00	1.38	Minor Arterial	Principal Arterial	Urban	Yes	State	Ewa	Connections to Fort Barrette Road are arterials and collectors. *MP 0.00 to 1.38 is proposed to be added to the NHS because it is a principal arterial.
930	Farrington Highway/Kaukonahua Road/Farrington Highway : Dillingham Air Field Entrance > Joseph P Leong Highway (Route 83)	2.15	7.92	Minor Arterial	Minor Arterial	Urban		State	Waianae/ Central Oahu/ North Shore	Farrington Highway is a "belt road" in this segment. Per the methodology, it should be an Arterial. *MP 2.15 to 7.92 is now urban because it falls within the new urban boundary.
6001	Kailua Road : Kawainui Stream bridge (#003000610401060)> Oneawa Street (Route 6016)	0.00	0.20	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Koolaupoko	Principal arterial being added to the NHS.
6011	Kailua Road : Oneawa Street (Route 6016) > Kalaheo Avenue (Route 6012)	0.00	1.06	Collector	Major Collector	Urban		County	Koolaupoko	There are large trip generators along this road.
6012	Kalaheo Avenue: Kailua Road (Route 6011) > Mokapu Boulevard (Route 65)	0.00	2.10	Minor Arterial	Major Collector	Urban		County	Koolaupoko	Kalaheo Avenue is a narrow two lane facility with no bike lanes or sidewalks and lots of driveway access. And from a hierarchy standpoint, it parallels Oneawa Street which is a minor arterial.
6013	Keolu Drive : Kalanianaʻole highway (Route 72) > Keolu Drive	0.00	3.17	Minor Arterial	Major Collector	Urban		County	Koolaupoko	Keolu Drive loops through Enchanted Lakes and provides neighborhood access. There are many points of connections of minor collectors or local roads.
6015	Mokapu Road : North Kalaheo Avenue (Route 6012) > Kaneohe Marine Corps Air Station	0.00	0.60	Collector	Major Collector	Urban		County	Koolaupoko	This road provides access to a military base.
6017	Wanaao Road : Kailua Road (Route 6011) > Keolu Drive (Route 6013)	0.00	0.85	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets and provides connectivity between two collectors. It primarily serves neighborhood use.
6020	Nanialii Street : Keolu Drive (Route 6013) > Kina Street (Route 6048)	0.00	0.27	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets it primarily serves neighborhood use.
6025	Kanapuu Drive : Kalanianaʻole Highway (Route 72) > Keolu Drive (Route 6013)	0.00	0.73	Collector	Minor Collector	Urban		County	Koolaupoko	This road provides connectivity between a collector and an arterial but it primarily serves neighborhood use.
6041	Kainalu Drive : Kainui Drive (Route 6042) > Kailua Road (6011)	0.00	1.76	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets and provides connectivity between two collectors. It parallels Oneawa Street and Kalaheo Avenue, for hierarchy purposes, it should be a Minor Collector.
6042	Kainui Drive : Dike Road entrance > Oneawa Street (Route 6016)	0.00	0.20	Collector	Local	Urban		County	Koolaupoko	Kainui Drive is a two lane divided roadway. This segment of the road does not contribute to the continuity of the network.

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6042	Kainui Drive : Oneawa Street (Route 6016) > Kalaheo Avenue (Route 6012)	0.00	0.70	Collector	Minor Collector	Urban		County	Koolaupoko	Kainui Drive is a two lane divided roadway connects a major collector (Kalaheo Avenue) to a minor arterial (Oneawa Street). The portion between these streets should remain a minor collector. * MP 0.2 to 0.9 is being revised to a new beginning milepost of 0.0 at Oneawa Street (Route 6016)
6043	Kihapai Street/Punaa Street : Oneawa Street (Route 6016) > Oneawa Street (Route 6016)	0.00	1.03	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets it primarily serves neighborhood use.
6044	Kalama Street : Oneawa Street (Route 6016) > Kainalu Drive (Route 6041)	0.00	0.38	Collector	Minor Collector	Urban		County	Koolaupoko	This road primarily serves neighborhood use and it provides connectivity from a collector to an arterial.
6045	South Kalaheo Avenue/Lihiwai Road/Kawailoa Road : Kailua Road (Route 6011) > Alala Road	0.00	0.53	Collector	Minor Arterial	Urban		County	Koolaupoko	This route is the only road into Lanikai. The beach is a large trip generator.
6045	Alala Road : Kawailoa Road > Mokulua Drive	0.53	0.60	Collector	Major Collector	Urban		County	Koolaupoko	This route is the only road into Lanikai. The beach is a large trip generator.
6046	Awakea Road/ Ka Awakea Road : Wanaao Road (Route 6017) > Papalani Street (Route 6047)	0.00	0.33	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets and provides connectivity between two collectors. It primarily serves neighborhood use.
6047	Papalani Street : Wanaao Road (Route 6017) > Keolu Drive (Route 6013)	0.00	0.43	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets and provides connectivity between two collectors. It primarily serves neighborhood use.
6048	Hele Street/Kina Street : Keolu Drive (Route 6013) > Hele Street (Route 6048)	0.00	1.65	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets and provides connectivity to a collector. It primarily serves neighborhood use.
6049	Akamai Street / Akumu Street : Keolu Drive (Route 6013) > Keolu Drive (Route 6013)	0.00	1.20	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets it primarily serves neighborhood use.
6050	Ulumanu Drive / Ulupii Street/Uluhala Street : Kailua Road (Route 61) > Kalaniana'ole Highway (Route 61)	0.00	1.09	Collector	Minor Collector	Urban		County	Koolaupoko	This road collects multiple streets and ends are arterials. It serves Kailua High School but primarily serves neighborhood use.
6051	Auloa Road/Maunawili Road : Kalaniana'ole Highway (Route 61) > Aloha Oe Drive	0.00	1.26	Collector	Minor Collector	Urban		County	Koolaupoko	This road is a neighborhood collector for access to an arterial.
6510	Kamehameha Highway : Haiku Road (Route 6542) > Kahekili Highway (Route 83)	1.42	5.57	Collector	Major Collector	Urban		County	Koolaupoko	This portion of Kamehameha Highway primarily serves neighborhood use but can also serve as an alternative route to Kahekili Highway. Endpoints are both arterials.
6511	Kaneohe Bay Drive : Mokapu Saddle Road (Route 65) > Mokapu Boulevard (Route 65)	0.00	2.62	Collector	Major Collector	Urban		County	Koolaupoko	This road collects multiple streets and both ends are principal aterials.
6542	Haiku Road : Kahekili Highway (Route 83) > Kahuhipa Street (Route 6544)	0.70	1.20	Collector	Minor Collector	Urban		County	Koolaupoko	This road is a neighborhood collector which provides access to an arterial.
6543	Keaahala Road : Kamehameha Highway (Route 6510) > Pookela Street	0.00	0.75	Collector	Major Collector	Urban		County	Koolaupoko	Provides access to large trip generators and connectivity between two arterials.
6544	Kahuhipa Street : Kamehameha Highway (Route 6510) > Kahekili Highway (Route 83)	0.00	0.63	Collector	Major Collector	Urban		County	Koolaupoko	Haiku Road and Kahuiipa Street are used for mall accesss. For hierarchy purposes, Kahuhipa Street is classified lower than Haiku Road (minor arterial).
6544	Kahuhipa Street : Kahekili Highway (Route 83) > Haiku Road (Route 6542)	0.63	1.19	Collector	Minor Collector	Urban		County	Koolaupoko	This road is a neighborhood collector which provides access to an arterial.
6545	Lilipuna Road/Wailele Road/William Henry Road: Kamehameha Highway (Route 6510) > Kamehameha Highway (Route 6510)	0.00	1.37	Collector	Minor Collector	Urban		County	Koolaupoko/ Koolauloa	This road is a neighborhood collector which provides access to an arterial.

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6546	Waikalua Road : Kamehameha Highway (Route 6510) > Kaneohe Beach Park	0.00	1.03	Collector	Major Collector	Urban		County	Koolaupoko	This road provides beach park access.
6547	Anoi Road/Luluku Road : Kapunahala Elementary entrance > Kamehameha Highway (Route 83)	0.00	1.07	Collector	Minor Collector	Urban		County	Koolaupoko	This road is a neighborhood collector which provides access to an arterial.
6548	Koa Kahiko Street/Kenela Street/Namoku Street : Kamehameha Highway (Route 83) > Mokulele Drive (Route 6549)	0.00	0.80	Collector	Minor Collector	Urban		County	Koolaupoko	This road primarily serves neighborhood use and it provides connectivity from a collector to an arterial.
6549	Mokulele Drive : Kamehameha Highway (Route 83) > Kaneohe Bay Drive (Route 65)	0.00	1.16	Collector	Major Collector	Urban		County	Koolaupoko	Mokulele Drive is a collector for the neighborhood but also provides connectivitiy between Kaneohe Bay Drive and Kamehameha Highway.
6550	Puohala Street : Kaneohe Bay Drive (Route 65) > Hilinai Street	0.00	0.40	Collector	Local	Urban		County	Koolaupoko	This road primarily serves neighborhood use and does not contribute to the connectivity of the network.
6551	Aumoku Street : Kaneohe Bay Drive (Route 65) > Koa Kahiko Street (Route 6548)	0.00	0.18	Collector	Minor Collector	Urban		County	Koolaupoko	This road primarily serves neighborhood use and does not contribute to the connectivity of the network.
6552	Lilipuna Road : Kamehameha Highway (Route 6510) > Yacht Club Street	0.00	0.47	Collector	Local	Urban		County	Koolaupoko	This road primarily serves neighborhood use and does not contribute to the connectivity of the network.
6553	Hui Iwa St/Hui Ulili St/Ahuimanu Pl : Kahekili Hwy (S junction) > Kahekili Hwy (N junction) (Route 83)	0.00	1.39	Collector	Minor Collector	Urban		County	Koolaupoko	This road is a neighborhood collector which provides access to an arterial.
6554	Waihee Road : Kamehameha Highway (Route 83)> Ahilama Road	0.00	0.43	Collector	Minor Collector	Urban		County	Koolaupoko	This road is a neighborhood collector which provides access to an arterial but it also serves a school.
6555	Makalani Street : Kaneohe Bay Drive (Route 65)> Puohala Street (Route 6550)	0.00	0.35	Collector	Local	Urban		County	Koolaupoko	This road primarily serves neighborhood use and does not contribute to the connectivity of the network.
7010	California Avenue : Kilani Avenue (Route 7011) > Kamehameha Highway (Route 80)	0.00	0.90	Minor Arterial	Major Collector	Urban		County	Central Oahu	This side of California Avenue collects many streets, but there are no large trip generators.
7010	California Avenue : Uuku Street (Route 7041) > 0.20 miles northeast of Hill Drive	2.10	3.26	Collector	Minor Collector	Urban		County	Central Oahu	No major trip generators beyond school (Uuku St).
7011	Kilani Avenue : California Avenue (Route 7010) > Cane Street	0.00	1.11	Collector	Major Collector	Urban		County	Central Oahu	Kilani runs parallel to California and should remain as a a major collector. There are significant trip generators along this road.
7011	Kilani Avenue : Cane Street > Glen Avenue (Route 7041)	1.11	1.37	Collector	Minor Collector	Urban		County	Central Oahu	No major trip generator beyond hospital (Cane St)
7012	Whitmore Avenue : Kamehameha Highway (Route 80) > entrance to Naval Reservation	0.00	1.87	Collector	Minor Collector	Urban		State	Central Oahu	Whitmore Avenue provides access to the military base.
7041	Glen Avenue/Royal Palm Drive/Uuku Street : Kilani Avenue (Route 7011) > California Avenue (Route 7010)	0.00	0.82	Collector	Minor Collector	Urban		County	Central Oahu	Collects multiple streets and connects a collector to an arterial.
7042	Lanikuhana Avenue : Ahiku Street > Meheula Parkway (Route 7013)	0.00	1.23	Collector	Minor Collector	Urban		County	Central Oahu	Collector for neighborhood which provides access to an arterial (Mehelua Parkway) but it does not contribute to connectivity of the system.
7042	Lanikuhana Avenue : Meheula Parkway (Route 7013) > Meheula Parkway (Route 7013)	1.23	3.88	Collector	Major Collector	Urban		County	Central Oahu	Collects multiple streets and serves significant trip generators, both ends are an arterial.
7043	Kuahelani Avenue : Meheula Parkway (Route 7013) > Kamehameha Highway (Route 99)	0.00	0.90	Collector	Major Collector	Urban		County	Central Oahu	Collects multiple streets and serves significant trip generators, both ends are an arterial.
7043	Kuahelani Avenue : Kamehameha Highway (Route 99) > Lanikuhana Avenue (Route 7042)	0.90	2.20	Collector	Minor Collector	Urban		County	Central Oahu	This section of Kuahelani Avenue is a neighborhood collector and contributes to connectivity of the system.
7101	Farrington Highway : Kunia Road (Route 76) > Kamehameha Highway (Route 99)	0.00	3.00	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Central Oahu	Principal arterial being added to the NHS.

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7139	Waipio Point Access Road : Farrington Highway (Route 7101) > Waipio Soccer Complex gate	0.00	0.84	Collector	Minor Collector	Urban		County	Central Oahu/Ewa	This road serves significant trip generators.
7140	Geiger Road : Franklin D Roosevelt Avenue (Route 8940) > Fort Weaver Road (Route 76)	0.00	1.18	Collector	Major Collector	Urban		County	Primary Urban Center/ Central Oahu/Ewa	Provides connectivity between Ewa and Kapolei.
7141	Iroquois Road : Fort Weaver Road (Route 76) > military reservation (West Loch)	0.00	1.51	Collector	Major Collector	Urban		State	Ewa	Provides access to a Military Base.
7143	Waipahu Depot Road : Waipahu Street (Route 7142) > Farrington Highway (Route 7101)	0.00	0.20	Collector	Major Collector	Urban		County	Central Oahu	Provides connectivity between arterials and serves significant trip generators.
7144	Hanakahi Street : Fort Weaver Road (Route 76) > North Road (Route 7145)	0.00	1.00	Collector	Minor Collector	Urban		County	Ewa	This road collects multiple streets and provides connectivity between a collector and an arterial but it primarily serves neighborhood use.
7145	North Road : Fort Weaver Road (Route 76) > Hanakahi Street (Route 7144)	0.00	0.73	Collector	Major Collector	Urban		County	Ewa	This road collects multiple streets and serves significant trip generators.
7146	Renton Road : Fort Weaver Road (Route 76) > Franklin D Roosevelt Avenue (Route 8940)	0.00	1.70	Collector	Major Collector	Urban		County	Ewa	Provides connectivity between Ewa and Kapolei.
7147	Old Fort Weaver Road: Farrington Highway (Route 7110) > Fort Weaver Road (Route 76)	0.00	1.27	Collector	Minor Collector	Urban		County	Ewa	This road is a neighborhood collector which provides access to arterials.
7148	Papipi Road : Fort Weaver Road (Route 76) > Pohakupuna Road	0.00	0.80	Collector	Minor Collector	Urban		County	Ewa	This road is a neighborhood collector which provides access to an arterial.
7149	Mahoe Street : Waipahu Street (Route 7142) > Hiapo Street	0.00	0.26	Collector	Local	Urban		County	Central Oahu	This road serves neighborhood use only and does not contribute to the network.
7150	Kolowaka Drive : Fort Weaver Road (Route 76) > Kapolei Parkway (Route 8920)	0.00	0.56	Collector	Major Collector	Urban		County	Ewa	This road collects multiple streets and connects to arterials.
7165	Waipio Uka Street : Ka Uka Boulevard (Route 7160) > Kamehameha Highway (Route 99)	0.00	1.43	Collector	Major Collector	Urban		County	Central Oahu	This road collects multiple streets and connects arterials.
7170	Paiwa Street : Farrington Highway (Route 7101) > Lumiaina Street (Route 7175)	0.00	1.42	Collector	Major Collector	Urban		County	Central Oahu	Per FHWA's new requirements this is a major collector based on traffic volumes.
7175	Lumiaina Street : Paiwa Street (Route 7170) > Kamehameha Highway (Route 99)	0.00	0.98	Collector	Major Collector	Urban		County	Central Oahu	Per FHWA's new requirements this is a major collector based on traffic volumes.
7180	Kupuna Loop : south junction with Kunia Road (Route 750) > north junction with Kunia Road (Route 750)	0.00	1.93	Collector	Major Collector	Urban		County	Ewa/Central Oahu	Per FHWA's new requirements this is a major collector based on traffic volumes.
7210	Moanalua Road : Waimano Home Road (Route 7211) > Kaimakani Street	0.00	3.47	Principal Arterial - Other	Minor Arterial	Urban		County	Primary Urban Center	Moanalua Road runs approximately parallel to H-1 (interstate) and Kamehameha Hwy (Principle Arterial) so for hierarchy purposes, it should be classified as a Minor Arterial.
7211	Waimano Home Road : Kamehameha Highway (Route 99) > Komo Mai Drive (Route 7243)	0.00	1.25	Principal Arterial - Other	Minor Arterial	Urban		County	Primary Urban Center	*MP 0.00 to 0.60 this segment should be downgraded from a principal arterial to a minor arterial because there are driveways along portions of it and for consistency should be classified with the next segment of the road.

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7211	Waimano Home Road : Komo Mai Drive (Route 7243) > entrance to Waimano Hospital	1.25	2.23	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7212	Kuala Street : Waimano Home Road (Route 7211) > Kamehameha Highway	0.00	1.02	Collector	Major Collector	Urban		County	Primary Urban Center/ Central Oahu	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7225	Hoomalu Street : Waimano Home Road (Route 7211) > Komo Mai Drive (Route 7243)	0.00	1.23	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7226	Puu Poni Street : Kamehameha Highway (Route 99) > Hoomalu Street (Route 7225)	0.00	0.25	Collector	Minor Collector	Urban		County	Primary Urban Center/ Central Oahu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7228	Acacia Road : Kuala Street (Route 7212) > Kamehameha Highway (Route 99)	0.00	0.20	Collector	Major Collector	Urban		County	Primary Urban Center/ Central Oahu	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7239	Ulune Street/Halawa Valley Road : Kahuapaani Street (Route 7241) > Iwaiwa Street	0.00	0.32	Collector	Major Collector	Urban		State	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7241	Kahuapaani Street : Ulune Street > Halawa Heights Road (Route 7241)	0.88	0.99	Collector	Major Collector	Urban		State	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7241	Halawa Heights Road : Kahuapaani Street > Camp Smith Gate #3	0.99	2.32	Collector	Minor Collector	Urban		State	Primary Urban Center	Provides access to a Military Base but does not contribute to circulation.
7243	Komo Mai Drive : Aumakua Street > Kaahele Street (Route 7251)	0.00	2.91	Collector	Major Collector	Urban		County	Primary Urban Center	This road provides connectivity to Waimanu Home Road and Kaahele Street, and also collects roads from the neighborhood.
7244	Kaonohi Street : Moanalua Road (Route 7210) > 0.10 miles north of Iho Place	0.35	1.80	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7245	Kaamilo Street : Moanalua Road (Route 7210) > Aiea Heights Drive (Route 7246)	0.00	1.66	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7246	Aiea Heights Drive : Moanalua Road (Route 7210) > Ulune Street	0.00	0.34	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7246	Aiea Heights Drive : Ulune Street > Keaiwa State Park	0.34	2.66	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.

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7247	Hoolaulea Street : Waimano Home Road (S junction) (Route 7211) > Waimano Home Road (N junction) (Route 7211)	0.00	2.08	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7248	Ulune Street : Aiea Heights Drive (Route 7246) > Kahuapaani Street (Route 7241)	0.00	0.83	Collector	Major Collector	Urban		County	Primary Urban Center	Road collects neighborhood roads and provides access to freeway junction.
7249	Lehua Street : Kamehameha Highway (Route 99) > Lehua Elementary School Access Road	0.00	0.32	Collector	Major Collector	Urban		County	Central Oahu/ Primary Urban Center	Provides access to a Military Base.
7250	Kaahumanu Street : Moanalua Road (Route 7210) > Komo Mai Drive (Route 7243)	0.26	1.02	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7251	Kaahale Street : Moanalua Road (Route 7210) > 0.2 miles past Hiliu Place	0.00	1.85	Collector	Minor Collector	Urban		County	Primary Urban Center	This road provides connectivity to Moanalua Road and Komo Mai Drive, and also collects roads from the neighborhood.
7260	Honomanu Street : Kamehameha Highway (Route 99) > Moanalua Road (Route 7210)	0.00	0.20	Collector	Major Collector	Urban		County	Central Oahu/Primary Urban Center	Provides connectivity between two arterials (Kamehameha Hwy to Moanalua Road).
7261	Moanalua Loop : Moanalua Road (Route 7210) > Kaonohi Street (Route 7244)	0.00	0.43	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7262	Kanuku Street : Hekaha Street (Route 7263) > Kamehameha Highway (Route 99)	0.00	0.40	Collector	Minor Collector	Urban		County	Primary Urban Center/ Central Oahu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7263	Hekaha Street : Kamehameha Highway (Route 99) > Moanalua Road (Route 7210)	0.00	0.44	Collector	Minor Collector	Urban		County	Central Oahu/ Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7310	Puuloa Road : Kamehameha Highway/Nimitz Highway (Route 92) > southwest end of Puuloa overpass	0.00	1.03	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center	Principal arterial being added to the NHS.
7341	Kikowaena Street/Ahua Street : Moanalua Freeway (Route 201) > Nimitz Highway (Route 92)	0.00	0.79	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and provides freeway access.
7342	Pukoloa Street : Puuloa Road (Route 7310) > Ahua Street (Route 7341)	0.00	0.26	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7343	Arizona Road/Camp Catlin Road : Salt Lake Boulevard (Route 7311) > Nimitz Highway (Route 92)	0.00	0.53	Collector	Major Collector	Urban		County	Primary Urban Center	Provides connectivity between two arterials (Salt Lake Boulevard and Nimitz Highway).

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7344	Ala Aolani Street : Moanalua Freeway (Route 210) > Ala Noe Place	0.00	1.46	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7345	Jarret White Road : Moanalua Freeway (southwest Puuloa Road overpass) (Route 210) > Tripler Hospital gate	0.00	0.55	Collector	Major Collector	Urban	Yes	State	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7346	Ala Mahamoe Street : Jarret White Road (Route 7345) > Kaua Street	0.00	1.50	Collector	Minor Collector	Urban		County	Primary Urban Center	This should remain as a minor collector because it collects local roads and connectors a major collector (Puuloa/Jarrett White Road) to a minor arterial (Middle Street).
7346	Kaua Street : Ala Mahamoe Street > Middle Street (Route 7414)	1.50	2.11	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7347	Ala Lilikoi Street : Salt Lake Boulevard (Route 7311) > Likini Street (Route 7348)	0.00	0.34	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7348	Pakini Street / Likini Street : Salt Lake Boulevard (Route 7311) > Ala Napunani Street (Route 7349)	0.00	2.36	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7349	Ala Napunani Street : Salt Lake Boulevard (Route 7311) > Ala Aolani Street (Route 7344)	0.00	1.32	Collector	Major Collector	Urban		County	Primary Urban Center	Collects local roads in Salt Lake, also used as freeway access and provides connectivity to Salt Lake Boulevard.
7350	Bougainville Drive : Radford Drive (Route 7351) > Salt Lake Boulevard (Route 7311)	0.00	0.59	Collector	Major Collector	Urban		State	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7351	Radford Drive : Kamehameha Highway (Route 99) > Bougainville Drive (Route 7350)	0.00	0.23	Collector	Major Collector	Urban		State	Central Oahu/ Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7402	King Street : Kalihi Street (Route 63) > Harding Avenue (Route 7842)	0.00	5.20	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7412	Liliha Street : Wyllie Street (Route 7446) > H-1 overpass	0.00	0.98	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7420	Palama Street : King Street (Route 7402) > Vineyard Boulevard (Route 98)	0.00	0.20	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7425	Iwilei Road/Pacific Street : King Street (Route 7402) > Nimitz Highway (Route 92)	0.00	0.66	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7430	Kalihi Street/Auiki Street : Nimitz Highway (Route 92) > Sand Island Access Road (Route 64)	0.00	0.66	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.

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7441	Kalihi Street : Likelike Highway (Route 63) > Wailele Street	0.00	0.76	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7441	Kalihi Street : Wailele Street > Kalaepaa Drive	0.76	1.74	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7442	Kamehameha IV Road : School Street (Route 7414) > Likelike Highway (Route 63)	0.00	0.70	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7443	Nalanieha Street : Likelike Highway (Route 63) > Kalihi Street (Route 7441)	0.00	0.15	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7444	Kealia Drive/Hillcrest Street/Houghtailing Street : Makanani Drive (Route 7445) > School Street (Route 7414)	0.00	0.60	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7445	Judd Street/Iholena Street/Lolena Street/Makanani Drive : Nuuanu Avenue (Route 7522) > Kealia Drive (Route 7444)	0.00	1.34	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7446	Wyllie Street/Alewa Drive : Liliha Street (Route 7412)> Hoomaikai Street	0.00	2.04	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7447	Lanakila Avenue /Judd Street : School Street (Route 7414) > Iholena Street (Route 7445)	0.00	0.40	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7448	Puuhale Road : Nimitz Highway (Route 92) > Dillingham Boulevard (Route 7401)	0.00	0.25	Collector	Major Collector	Urban		County	Primary Urban Center	This road is parallel to a minor arterial (Kalihi Street), for hierarchy purposes, it should be a major collector.
7450	Mokauea Street : Nimitz Highway (Route 92) > King Street (Route 7410)	0.00	0.58	Collector	Minor Collector	Urban		County	Primary Urban Center	This road is parallel to a minor arterial (Kalihi Street) and a major collector (Puuhale Road), for hierarchy purposes, it should be a minor collector.
7502	Beretania Street : University Avenue (Route 7615) > King Street (Route 7402)	0.00	3.31	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7503	Kapiolani Boulevard : South Street (Route 7510) >Waialae Avenue (Route 7801)	0.00	3.12	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7504	Alakea Street : Nimitz Highway (Route 92) > Beretania Street (Route 7502)	0.00	0.40	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7504	Queen Emma Street/Kukui Street : Beretania Street (Route 7502) > Pali Highway (Route 7505)	0.40	0.60	Principal Arterial - Other	Minor Arterial	Urban		County	Primary Urban Center	This road parallels a Principal Arterial (Pali Highway), for hierarchy purposes it should be a minor arterial.
7505	Pali Highway/Bishop Street : Vineyard Boulevard (Route 98) > Nimitz Highway (Route 92)	0.00	0.62	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.

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7510	Alapai Street/Lusitana Street : Beretania Street (Route 7502) > Vineyard Boulevard (Route 98)	0.78	1.08	Minor Arterial	Major Collector	Urban		County	Primary Urban Center	This should not have the same classification as the beginning section because there are no large trip generators past Beretania.
7511	Ward Avenue : Ala Moana Boulevard (Route 92) > H-1	0.00	0.96	Minor Arterial	Principal Arterial	Urban	Yes	County	Primary Urban Center	There are large trip generators along this road, and it also provides freeway access so it should be upgraded to a principal arterial and is also added to the NHS.
7512	Pensacola Street : Nehoa Street (Route 7518) > Luanalilo Street (Route 7526)	0.00	0.50	Minor Arterial	Major Collector	Urban		County	Primary Urban Center	This section of Pensacola Street does not serve the same purpose as the rest of the route. There are no large trip generators, this road is primarily for neighborhood use.
7512	Pensacola Street/Waimanu Street : Lunalilo Street (Route 7526) > Piikoi Street (Route 7513)	0.50	1.40	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	This segment is a principal arterial proposed to be added to the NHS. *MP 1.20 to 1.40 should be upgraded from a Minor Arterial to a Principal Arterial bcause there are major trip generators at the end of this segment.
7513	Piikoi Street : Lunalilo Street (Route 7526) > Pensacola Street (Route 7512)	0.94	1.37	Minor Arterial	Minor Collector	Urban		County	Primary Urban Center	This portion of the road is primarily for neighborhood use and should not be classified with the rest of the route.
7516	Punchbowl Street : H-1 > King Street (Route 7402)	0.00	0.57	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7518	Iolani Avenue / Prospect Street / Nehoa Street : Lusitana Street (Route 7521) > Punahou Street (Route 7614)	0.00	1.81	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7521	Lusitana Street : School Street (Route 7414) > Auwaiolimu Street (Route 7517)	0.00	0.42	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7524	Wyllie Street : Liliha Street (Route 7412)> Nuuanu Avenue (Route 7522)	0.00	0.27	Collector	Major Collector	Urban		County	Primary Urban Center	Provides connectivity between minor arterials.
7526	Lunalilo Street : H-1 off ramp > Ward Avenue (Route 7511)	0.00	0.62	Minor Arterial	Principal Arterial	Urban	Yes	County	Primary Urban Center	Freeway access to Makiki and to Ala Moana area. The access points are arterials. Principal arterial being added to the NHS.
7528	Pohukaina Street/Kamani Street : Punchbowl Street (Route 7516) > Auahi Street	0.00	0.60	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7528	Auahi Street/Queen Street : Kamani Street > Ala Moana Boulevard (Route 92)	0.60	1.20	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7530	Sheridan Street : Rycroft Street > Kapiolani Boulevard (Route 7503)	0.00	0.27	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7541	Kaheka Street : Kapiolani Boulevard (Route 7503) > King Street (Route 7402)	0.00	0.42	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.

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7542	Keola Street/Kuakini Street : Hala Drive > Lanakila Avenue (Route 7447)	0.00	0.20	NEW	Major Collector	Urban		County	Primary Urban Center	Future road completing the circulation access in the area.
7542	Kuakini Street : Lanakila Avenue > Nuuanu Avenue (Route 7522)	0.20	0.94	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7542	Kuakini Street : Nuuanu Avenue (Route 7522) > Pali Highway (Route 61)	0.94	1.04	NEW	Major Collector	Urban		County	Primary Urban Center	*MP 0.94 to 1.04 is an exisiting road which should be upgraded to a Major Collector because it completes the circulation access to a principal arterial (Pali Highway).
7543	Hotel Street : Richards Street (Route 7544) > King Street (Route 7402) [bus only]	0.00	0.57	Collector	Minor Collector	Urban		County	Primary Urban Center	Hotel Street has bus use only, so should be a minor collector.
7544	Richards Street : Beretania Street (Route 7502) > King Street (Route 7042)	0.00	0.23	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7545	Pacific Heights Road : Pauoa Road (Route 7521) > end of route	0.00	2.20	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7546	Booth Road/Kekuanoni Street/Kapulei Street/Pauoa Road : Pacific Heights Road (Route 7545) > Lusitana Street (Route 7521)	0.00	1.90	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7547	Hookui Street/Puowaina Drive/Tantalus Drive/Makiki Heights Drive/Mott Smith Drive : Auwaiolimu Street (Route 7517) > Nehoa Street (Route 7518)	0.00	2.06	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7548	Cooke Street : Ala Moana Boulevard (Route 92) > King Street (Route 7402)	0.00	0.66	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7549	Young Street : Pensacola Street (Route 7512) > Isenberg Street (Route 7643)	0.00	1.40	Collector	Major Collector	Urban		County	Primary Urban Center	Classified for hierarchy purposes; connects a minor arterial (Pensacola Street) to a major collector (Isenberg).
7550	Keeaumoku Street : Wilder Avenue (Route 7525) > Nehoa Street (Route 7518)	0.00	0.30	Collector	Minor Collector	Urban		County	Primary Urban Center	No major trip generators along this road, primarily for neighborhood use.
7552	Kamakee Street : Ala Moana Boulevard (Route 92) > Kapiolani Boulevard (Route 7503)	0.00	0.34	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7553	Booth Road : Kekuanoni Street (Route 7546) > 2000 feet past Kekuanoni Street	0.00	0.38	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7601	Old Waialae Road/King Street : Kapiolani Boulevard (Route 7503) > end of divided roadway	0.00	0.41	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Primary Urban Center	Principal arterial being added to the NHS.
7613	Metcalf Street : McCully Street > University Avenue (Route 7646)	0.88	1.37	Minor Arterial	Major Collector	Urban		County	Primary Urban Center	There are no major trip generators past McCully Street along this route.

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7614	Philip Street/Punahou Street : Kalakaua Avenue (Route 7612) > King Street (Route 7402)	0.00	0.17	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7614	Punahou Street : King Street (Route 7402) > Wilder Avenue (Route 7525)	0.17	0.64	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7615	University Avenue : King Street (Route 7402) > Metcalf Street (Route 7613)	0.40	0.90	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS. *MP 0.74 to 0.90 should be upgraded from a minor arterial to a principal arterial because the university is an extremely large trip generator. Also provides access into Manoa.
7641	Date Street/Citron Street/Kuikahi Street/Philip Street : University Avenue (Route 7615) > Punahou Street (Route 7614)	0.00	0.91	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7642	East Manoa Road : Manoa Road (Route 7645) > Alani Drive	0.00	1.81	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7642	Alani Drive : East Manoa Road (Route 7642) > Woodlawn Drive (N Junction)	1.81	2.06	Collector	Minor Collector	Urban		County	Primary Urban Center	Keep segment consistent with entire route
7643	Isenberg Street : Kapiolani Boulevard (Route 7503) > Beretania Street (Route 7502)	0.00	0.52	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7644	Lowrey Avenue : Manoa Road (Route 7645) > East Manoa Road (Route 7642)	0.00	0.39	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7645	Manoa Road : Nehoa Street (Route 7518) > Waakaua Street	0.00	2.45	Minor Arterial	Major Collector	Urban		County	Primary Urban Center	*MP 0.00 to 1.42 should be downgraded from a minor arterial to a major collector for hierarch purposes because it provides access to Manoa, but is approximately parallel to University Avenue which has higher use.
7646	University Avenue : Metcalf Street (Route 7613) > Oahu Avenue	0.00	0.65	Collector	Minor Arterial	Urban		County	Primary Urban Center	Provides access to Manoa, and is approximately parallel to Manoa Road which should be classified lower because it has lower use.
7646	Oahu Avenue : University Avenue (Route 7646) > Manoa Road (route 7645)	0.65	1.29	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7647	St Louis Drive/Bertram Street/St Louis Drive/Bertram Street/St Louis Drive/Noah Street/St Louis Drive/Alencastre Street : Dole Street (Route 7611) > St Louis Drive	0.00	2.11	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7648	Alexander Street : Wilder Avenue (Route 7525) > H-1	0.00	0.16	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7649	Dole Street : Punahou Street (Route 7614) > Metcalf Street (Route 7613)	0.00	0.38	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.

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7711	Kuhio Avenue : Kalakaua Avenue (Route 7612) > Kapahulu Avenue (Route 7810)	0.00	1.17	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7712	Monsarrat Avenue : Kalakaua Avenue (Route 7612) > Paki Avenue (Route 7713)	0.00	0.47	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7713	Paki Avenue : Diamond Head Road (Route 7811) > Monsarrat Avenue (Route 7712)	0.00	0.66	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7713	Paki Avenue : Monsarrat Avenue (Route 7712) > Kapahulu Avenue (Route 7810)	0.66	0.95	Collector	Minor Arterial	Urban		County	Primary Urban Center	This road provides connectivity between two arterials. This section of the road is 4 lanes wide.
7714	Niu Street : Ala Wai Boulevard (Route 7710) > Kalakaua Avenue (Route 7612)	0.00	0.10	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7715	Pau Street : Kalakaua Avenue (Route 7612) > Ala Wai Boulevard (Route 7710)	0.00	0.11	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7720	Saratoga Road : Kalia Road (Route 7743) > Kalakaua Avenue (Route 7612)	0.00	0.24	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7725	Kalaimoku Street : Kalakaua Avenue (Route 7612) > Ala Wai Boulevard (Route 7710)	0.00	0.20	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7741	Kaiulani Street/ Kanekapolei Street : Kalakaua Avenue (Route 7612) > Ala Wai Boulevard (Route 7710)	0.00	0.37	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7743	Kalia Road : Ala Moana Boulevard (Route 92) > Lewers Street (Route 7744)	0.00	0.56	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7744	Lewers Street : Kalia Road (Route 7743) > Ala Wai Boulevard (Route 7710)	0.00	0.42	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7801	Waialae Avenue : Kapahulu Avenue (Route 7810) > Palolo Avenue (Route 7849)	0.00	0.42	Principal Arterial - Other	Principal Arterial	Urban	Yes	County	Primary Urban Center	Principal arterial being added to the NHS.
7801	Waialae Avenue: off ramp from H-1 > Kilauea Avenue (Route 7812)	1.56	2.02	NEW	Minor Arterial	Urban		State	Primary Urban Center	The existing road collects collectors and has major trip generators.
7814	18th Avenue : Harding Avenue (Route 7842) > Diamond Head Road (Route 7811)	0.00	0.82	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7841	Campbell Avenue : Monsarrat Avenue (Route 7712) > Kapahulu Avenue (Route 7810)	0.00	0.62	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.

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7842	Harding Avenue : 21st Avenue (Route 7856) > Kapiolani Boulevard (Route 7503)	0.00	1.78	Collector	Major Collector	Urban		County	Primary Urban Center	Harding Avenue provides freeway access.
7843	Hunakai Street : Kilauea Avenue (Route 7862) > Kahala Avenue (Route 7844)	0.00	1.50	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7844	Kahala Avenue : Diamond Head Road (Route 7811) > Kealaolu Avenue (Route 7863)	0.00	1.50	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7845	Kaimuki Avenue : Kapiolani Boulevard (Route 7503) > 6th Avenue (Route 7852)	0.00	0.68	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7847	Mooheau Avenue : Kapahulu Avenue (Route 7810) > 6th Avenue (Route 7852)	0.00	0.27	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7848	Pahoa Road : Koko Head Avenue (Route 7846) > Kilauea Avenue (Route 7812)	0.00	1.00	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7849	Palolo Avenue : 10th Avenue (Route 7853) > Waialae Avenue (Route 7801)	0.00	1.86	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7850	5th Avenue : Waialae Avenue (Route 7801) > Harding Avenue (Route 7842)	0.00	0.20	Minor Arterial	Major Collector	Urban		County	Primary Urban Center	Downgrade segment to match surrounding hierarchy.
7851	6th Avenue : Waialae Avenue (Route 7801) > Palolo Avenue (Route 7849)	0.00	0.17	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and provides freeway access.
7852	6th Avenue : H-1 > Alohea Avenue (Route 7864)	0.00	0.50	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7853	10th Avenue : Palolo Avenue (Route 7848) > Waialae Avenue (Route 7801)	0.00	1.85	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7854	10th Avenue : Kilauea Avenue (Route 7812) > Waialae Avenue (Route 7801)	0.00	0.62	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7856	21st Avenue : Harding Avenue (Route 7842) > Waialae Avenue (Route 7801)	0.00	0.20	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7857	Sierra Drive : Waialae Avenue (Route 7801) > Maunalani Circle	0.00	2.30	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7858	Lurline Drive/Monterey Drive/Paula Drive/Koko Drive/16th Avenue : Maunalani Circle > Kilauea Avenue (Route 7812)	0.00	2.82	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.

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Justification of Changes to the Federal-Aid System: City and County of Honolulu

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7859	Elepaio Street : Kilauea Avenue (Route 7812) > Kahala Avenue (Route 7844)	0.00	0.57	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7860	Pueo Street : Kilauea Avenue (Route 7812)> Kahala Avenue (Route 7844)	0.00	0.50	Collector	Local	Urban		County	Primary Urban Center	This road does not have major trip generators, it serves the neighborhood.
7862	Kilauea Avenue : Akiaki Place > Waialae Avenue (Route 7801)	0.00	0.69	Collector	Minor Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7863	Kealaolu Avenue : Waialae Avenue (Route 7801) > Kahala Avenue (Route 7844)	0.00	0.70	Collector	Major Collector	Urban		County	Primary Urban Center	This provides access to Waialae Avenue from significant trip generators.
7864	Alohea Avenue : 6th Avenue (Route 7852) > Makapuu Avenue (Route 7865)	0.00	0.61	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes.
7865	Makapuu Avenue : Diamond Head Road (Route 7811) > Kilauea Avenue (Route 7812)	0.00	0.32	Collector	Major Collector	Urban		County	Primary Urban Center	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
7911	Hawaii Kai Drive : Kalanianaʻole Highway (Route 72) > Wailua Street (Route 7951)	0.00	1.70	Collector	Minor Arterial	Urban		County	East Honolulu	*MP 0.00 to 1.70 this segment should be upgraded from a major collector to a minor arterial because it collects collectors and large condominiums. And for continuity purposes, should be classified with the next segment
7911	Hawaii Kai Drive : Wailua Street (Route 7951) > Lunalilo Home Road (Route 7910)	1.70	3.34	Collector	Major Collector	Urban		County	East Honolulu	This portion of Hawaii Kai Drive serves only neighborhood use.
7941	Aina Koa Avenue/ Halekoa Drive : Kalanianaʻole Highway (Route 72) > Alaeloa Street	0.00	1.70	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7942	West Hind Drive/East Hind Drive : Kalanianaʻole Highway (Route 72) > Kalanianaʻole Highway (Route 72)	0.00	1.13	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7943	Nohu Street/Hao Street/Ani Street/Hind Uka Drive : West Hind Drive (Route 7942) > East Hind Drive (Route 7942)	0.00	1.44	Collector	Minor Collector	Urban		County	East Honolulu	Nohu serves as the collector for all of Aina Hina Valley; as well as serving as a bus route. We suggest leaving it as a minor collector.
7944	Halemaumau Street : Kalanianaʻole Highway (W junction) (Route 72) > Kalanianaʻole Highway (E Junction) (Route 72)	0.00	0.83	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7945	Elelupe Road / Kuliouou Road : Kalanianaʻole Highway (Route 72) > Kalanianaʻole Highway (Route 72)	0.00	0.85	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7947	Lunalilo Home Road/Nawiliwili Street : Kalanianaʻole Highway (Route 72) > Kalanianaʻole Highway (Route 72)	0.00	0.86	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7948	Laukahi Street : Kalanianaʻole Highway (Route 72) > Kihi Street	0.00	1.32	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7949	Kealahou Street : Hawaii Kai Drive (Route 7911) > Ipuai Street	0.70	1.60	Collector	Major Collector	Urban		County	East Honolulu	This segment of the road only serves neighborhood use.
7952	Hahaione Street : Hawaii Kai Drive (Route 7911) > Ainapo Street (Route 7954)	0.00	0.83	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7953	Pepeekeo Street : Hawaii Kai Drive (Route 7911) > Hahaione Street (Route 7952)	0.00	0.42	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.
7954	Ainapo Street : Pepeekeo Street (Route 7953) > Hahaione Street (Route 7952)	0.00	0.63	Collector	Minor Collector	Urban		County	East Honolulu	Per FHWA's new requirements this is a minor collector based on traffic volumes.

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8300	Kamehameha Highway : Weed Junction > JP Leong Highway (Route 83)	0.00	2.00	Major Collector	Minor Arterial	Urban		County	North Shore	This parallels a major arterial for hierarchy purposes should be upgraded to a minor arterial.
8541	Old Goverment Road/Plantation Road : Farrington Highway (Route 93) > Waianae Valley Road (Route 8542)	0.00	0.70	Collector	Major Collector	Urban		County	Waianae	Per FHWA's new requirements this is a major collector based on traffic volumes.
8542	Waianae Valley Road : Farrington Highway (Route 93) > Haleahi Road	0.00	2.52	Collector	Major Collector	Urban		County	Waianae	Per FHWA's new requirements this is a major collector based on traffic volumes.
8543	Lualualei Homestead Road : Farrington Highway (Route 93) > Halona Road	0.00	1.10	Collector	Major Collector	Urban		County	Waianae	Per FHWA's new requirements this is a major collector based on traffic volumes.
8741	Hakimo Road : Farrington Highway (Route 93) > Paakea Road (Route 8755)	0.00	1.47	Collector	Major Collector	Urban		County	waianae	Per FHWA's new requirements this is a major collector based on traffic volumes.
8743	Haleakala Avenue : Farrington Highway (Route 93) > Nanakuli Avenue (Route 8744)	0.00	1.38	Collector	Major Collector	Urban		County	Waianae	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
8744	Nanakuli Avenue : Farrington Highway (Route 93) > Haleakala Avenue (Route 8743)	0.00	1.34	Collector	Major Collector	Urban		County	Waianae	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
8750	Kaukama Road : Farrington Highway (Route 93) > Pakeke Street	0.00	0.82	Collector	Minor Collector	Urban		County	Waianae	Per FHWA's new requirements this is a minor collector based on traffic volumes.
8750	Kaukama Road : Pakeke Street > 0.21 mi SW of Apuupuu Road	0.82	1.00	Collector	Local	Urban		County	Waianae	Neighborhood use only. Does not contribute to circulation.
8750	Kaukama Road : 0.21 mi SW of Apuupuu Road > Paakea Road	1.00	1.69	Collector	Local	Urban		County	Waianae	Neighborhood use only. Does not contribute to circulation.
8755	Mailiili Road/Paakea Road : Farrington Highway (Route 93) > Hakimo Road (Route 8741)	0.00	2.70	Collector	Minor Collector	Urban		County	Waianae	Per FHWA's new requirements this is a minor collector based on traffic volumes.
8760	Makaha Valley Road : Farrington Highway (Route 93) > Lahaina Street	0.00	0.10	Collector	Major Collector	Urban		County	Waianae	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
8765	Kili Drive : Farrington Highway (Route 93) > Huipu Drive	0.00	1.23	Collector	Local	Urban		County	Waianae	Neighborhood use only. Does not contribute to circulation.
8815	Palailai Street/Nohohale Street : Makakilo Drive (SE junction) > Makakilo Dr (NW junction) (Route 8810)	0.00	1.21	Collector	Minor Collector	Urban		County	Ewa	This street serves as the neighborhood minor collector for Makakilo City. It's the only collector in the area.
8905	Koio Drive : Aliinui Drive (Route 8910) > Farrington Highway (Route 93)	0.00	0.49	Collector	Minor Collector	Urban		County	Ewa	Per FHWA's new requirements this is a minor collector based on traffic volumes.
8910	Aliinui Drive : Farrington Highway (Route 93) > Koio Drive (Route 8905)	0.00	1.69	Collector	Major Collector	Urban		County	Ewa	Per FHWA's new requirements this is a major collector based on traffic volumes and significant trip generators.
8915	Kamokila Boulevard : Kapolei Parkway (Route 8920) > Roosevelt Avenue (Route 8940)	0.75	0.95	NEW	Minor Arterial	Urban		County	Ewa	This is an extension to Kamokila Boulevard that will complete circulation in the area.
8918	Wakea Street : Kapolei Parkway (Route 8920) > H-1	0.00	0.60	NEW	Minor Collector	Urban		County	Ewa	The roadway exists to Kamilokila and provides a key access to H-1. Wakea will be extended to the future Kapolei Parkway. * New route number
8925	Kealanani Avenue : Farrington Highway (Route 9107) > Kamaaha Loop	0.00	0.58	Collector	Major Collector	Urban		County	Ewa	Per FHWA's new requirements this is a major collector based on traffic volumes.
8930	Kualakai Parkway : H-1 > Kapolei Parkway (Route 8920)	0.00	2.47	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Ewa	*MP 0.00 to 2.47 is proposed to be added to the NHS because it is an existing principal arterial.
8930	Kualakai Parkway : Kapolei Parkway (Route 8920) > Roosevelt Avenue (Route 8940)	2.47	2.87	NEW	Minor Arterial	Urban			Ewa	Future extension to Roosevelt Avenue to complete the roadway circulation in the region and adjacent to the third largest shopping center, commerical center, and hotels in Ewa.

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8940	Franklin D Roosevelt Avenue : Geiger Road (Route 7140) > Kamokila Boulevard (Route 8915)	0.00	3.30	Local	Minor Collector	Urban		State	Ewa	A west/east collector road that helps to establish the hierarchy of roadways in the area.
8945	Enterprise Avenue : Franklin D Roosevelt Avenue (Route 8940) > Midway Avenue	0.00	0.98	Local	Minor Collector	Urban		State	Ewa	Collects roads and serves trip generators.
8955	Coral Sea Road : Franklin D Roosevelt Avenue (Route 8940) > Barbers Point Air Station Gate	0.00	2.69	Local	Minor Collector	Urban		State	Ewa	A north/south collector road that helps to establish the hierarchy of roadways in the area.
9107	Farrington Highway : west access to Old Fort Weaver Road > Kamokila Boulevard (Route 8915)	0.00	4.07	Collector	Minor Arterial	Urban		County	Ewa	Parallels an interstate with significant regional growth planned and near the rail transit project.
9107	Farrington Highway : Kamokila Boulevard (Route 8915) > Kalaeloa Boulevard	4.07	4.70	Collector	Local	Urban		County	Ewa	This portion of Farrington Highway has changed due to the improvements at the Kapolei Interchange complex. This section should be removed from the federal-aid system.
9262	Waialua Beach Road : Weed Junction > Crozier Loop	0.00	2.53	Major Collector	Major Collector	Urban		County	North Shore	*MP 0.00 to 2.61 is now urban because it falls within the new urban boundary.
9263	Haleiwa Road : Kamehameha Highway (Route 8300) > Waialua Beach Road (Route 9262)	0.00	1.60	Major Collector	Major Collector	Urban		County	North Shore	*MP 0.00 to 1.60 is now urban because it falls within the new urban boundary.
9265	Goodale Avenue : Waialua Beach Road (Route 9262) > Farrington Highway (Route 930)	0.00	0.86	Major Collector	Major Collector	Urban		County	North Shore	*MP 0.00 to 0.86 is now urban because it falls within the new urban boundary.
9270	Puuiki Street : Waialua Beach Road (Route 82) > Kealohanui Street	0.00	0.50	Major Collector	Local	Urban		County	North Shore	No trip generators past Kealohanui Street, only neighborhood use. Not designed to be an urban collector.
9270	Puuiki Street : Farrington Highway (Route 930) > Kealohanui Street	0.00	0.50	Major Collector	Minor Collector	Urban		County	North Shore	Puuiki Street serves Waialua High School. *MP 0.5 to 1.0 is being revised and route direction reversed with a new begin milepost of 0.0 at Farrington Highway (Route 9270)
9271	Haona Street/Kioe Street/Naluahi Street : Goodale Avenue (Route 9265) > Farrington Highway (Route 930)	0.00	0.60	Minor Collector	Local	Urban		County	North Shore	This road is for neighborhood use only.
9272	Kahui Street : Farrington Highway (Route 930)> Kuemanu Street	0.00	0.35	Minor Collector	Local	Urban		County	North Shore	This road is for neighborhood use only.
9273	Kaamooloa Road : Kaukonahua Road (Route 930) > end of route	0.00	0.55	Minor Collector	Local	Urban		County	North Shore	This road is for neighborhood use only.
9274	Paalaa Road : Kamehameha Highway (Route 8300) > Haleiwa Road (Route 9263)	0.00	0.77	Minor Collector	Minor Collector	Urban		County	North Shore	*MP 0.00 to 0.77 is now urban because it falls within the new urban boundary.
9275	Kuoha Street : Waialua Beach Road (Route 9262) > Kukea Circle	0.00	0.29	Minor Collector	Minor Collector	Urban		County	North Shore	*MP 0.00 to 0.29 is now urban because it falls within the new urban boundary.
9276	Komo Street : Waialua Beach Road (Route 9262) > Kau Street	0.00	0.19	Minor Collector	Minor Collector	Urban		County	North Shore	*MP 0.00 to 0.19 is now urban because it falls within the new urban boundary.
9280	Pupukea Road : Kamehameha Highway (Route 83) > Kanalani Place	0.00	2.30	Minor Collector	Minor Collector	Urban		County	North Shore	*MP 0.00 to 2.30 is now urban because it falls within the new urban boundary.
9285	Pualalea Street : Kamehameha Highway (Route 83) > end of road	0.00	0.31	Minor Collector	Major Collector	Urban		County	North Shore	There are significant trip generators along this road.
9500	Kalaeloa Boulevard : Malakole Street (Route 95) > Olai Street	0.00	0.96	Collector	Not a publicly owned road	Urban		Private	Ewa	Roadway jurisdiction is in the process of being transferred from private to City therefore cannot be functionally classified and on the NHS. Remove from the Federal-aid system.
H-3	H-3 : H-1 > Kaneohe Marine Corps Base Hawaii main gate	0.00	15.32	Interstate	Interstate	Urban	Yes	State	Primary Urban Center/Koola upoko	This roadway is urban because it connects two urban areas.

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MAUI										
30	High Street/Honoapiilani Highway: Main Street (Route 32) > Kuihelani Highway (Route 380)	0.00	4.88	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Wailuku-Kahului	This roadway connects to Honoapiilani Highway, which is a principal arterial and it's the primary route through Waikapu and to West Maui. *MP 0 to 4.88 is proposed to be added to the NHS because it is a principal arterial. *MP 1.98 to 4.88 is now urban because abuts the existing urban boundary and serves urban transportation purposes.
30	Honoapiilani Highway : Napilihau Street (Route 3090) > Plantation Estates Drive	29.03	31.14	Collector	Major Collector	Urban		State	West Maui	This is the only route into Kapalua, but it does not meet the design standards of a principal arterial and will remain as a major collector.
31	Piilani Highway : Mokulele Highway (Route 311) > Approx. 0.6 miles south of Wailea Ike Drive	0.00	7.75	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Kihei-Makena	This roadway is the primary route to Kihei. Adjoining South Kihei Road serves as a major collector. *MP 7.15 to 7.75 is a future extension of Piilani Highway to serve a large scale development
31	Piilani Highway :Approx. 0.6 miles south of Wailea Ike Drive > Kula Highway (Route 37)	7.75	12.01	Principal Arterial - Other	n/a	Urban	Yes	State	Kihei-Makena	This proposed section of Piilani Highway will no longer be constructed and will be replaced with the Kihei Upcountry Highway (Route 374) project.
31	Piilani Highway : Kula Highway (Route 37) > Haleakala National Park boundary	12.01	40.81	Minor Collector	Local	Rural		County	Kihei-Makena/Hana	This is not a true removal from the federal-aid system. This section of Piilani Highway will be assigned a new route number (Route 3700).
31	Hana Highway : Haleakala National Park boundary > Keawa Place (Route 360)	40.81	50.60	Major Collector	Local	Rural		County	Hana	This is not a true removal from the federal-aid system. This section of Piilani Highway will be assigned a new route number (Route 3700).
36	Hana Highway : Haleakala Highway (Route 37) > Kaupakalua Road (Route 365)	2.92	16.23	Minor Arterial	Minor Arterial	Urban		State	Paia-Haiku	This is the only main road on the northeast side. *MP 2.92 to 16.23 is now urban because it falls within the new urban boundary.
37	Haleakala Highway/Kula Highway : Hana Highway (Route 36) > Kalialinui Bridge (#009000370301383)	0.00	9.40	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Wailuku-Kahului/Makawao-Pukalani-Kula	This is a heavily traveled roadway facility serving the Makawao urban district and the upcountry Maui communities and Haleakala National Park. *MP 7.76 to 9.40 is proposed to be added to the NHS because it is an existing principal arterial.
37	Kula Highway : Kalialinui Bridge (#009000370301383) > Kekaulike Avenue (Route 377)	9.40	14.25	Major Collector	Minor Arterial	Urban		State	Makawao-Pukalani-Kula	This is the primary route through Kula. It's upgraded to provide a gradual functional classification drop from a principal arterial. *MP 9.40 to 14.25 is now urban because it falls within the new urban boundary.
37	Kula Highway : Kekaulike Avenue (Route 377) > Old Makena Road	14.25	21.39	Major Collector	Major Collector	Rural		State	Makawao-Pukalani-Kula	This is the continuation of a major collector that connects to Piilani Highway. It provides roadway connectivity and continuity. *MP 17.03 to 21.39 was changed to rural because it does not serve the urban boundary it borders.

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303	Puukolii Road : Honoapiilani Highway (Route 30) > Lahaina Bypass (Route 3000)	0.00	0.80	Collector	Major Collector	Urban		County	West Maui	This roadway will connect Honoapiilani Highway to proposed Lahaina Bypass. Honoapiilani Highway and the proposed Lahaina Bypass are the two principal arterials in the area.
311	Puunene Avenue/Mokulele Highway : Kuihelani Highway (Route 380) > Piilani Highway (Route 31)	0.00	6.41	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	Wailuku-Kahului	Existing principal arterial being added to the NHS.
340	Kahekili Highway : Waiehu Beach Road (Route 3400)> Waihee Bridge (#009003400500233)	0.00	2.31	Collector	Major Collector	Urban		State	Wailuku-Kahului	Considered a belt road, but is not designed as an arterial and should remain as a collector.
350	Puunene Bypass: Kuihelani Highway (Route 380) > Mokulele Highway/Waiko Road (Route 311)	0.00	1.50	Principal Arterial - Other	n/a	Urban		State	Wailuku-Kahului	Proposed roadway that will be removed from the federal-aid system. The proposed roadway is not planned to be constructed within the next 7 years.
360	Hana Highway : Kaupakalua Road (Route 365) > Honokala Road	0.00	2.63	Collector	Major Collector	Urban		State	Paia-Haiku	This is the only route through Hana and it's heavily used by tourists. It also provides roadway connectivity.
365	Makawao Avenue : Old Haleakala Highway (Route 367) > Kokomo Road (Route 366)	0.00	3.20	Collector	Major Collector	Urban		County	Makawao-Pukalani-Kula/Paia-Haiku	This is a primary route that connects Pukalani, through Makawao, to Kokomo. It also connects to an existing major collector. *MP 2.96 to 3.20 is now urban because it falls within the new urban boundary.
365	Kaupakalua Road : Kokomo Road (Route 366) > Hana Highway (Route 36)	3.20	8.56	Minor Collector	Minor Collector	Urban		County	Paia-Haiku	Section from Ulumalu Road to Hana Highway is hardly used since most people take Ulumalu Road down to Hana Highway. *MP 3.20 to 8.56 is now urban because it falls within the new urban boundary.
366	Haiku Road / Kokomo Road: Hana Highway (Route 36) > Makawao Avenue (Route 365)	0.00	5.56	Collector	Major Collector	Urban		County	Paia-Haiku	This road collects multiple streets and provides connectivity, one end is a collector and the other end is an arterial.
367	Old Haleakala Highway : Haleakala Highway (Route 37) > Kula Highway (Route 37)	0.00	1.86	Collector	Major Collector	Urban		County	Makawao-Pukalani-Kula	This facility serves Pukalani and connects Haleakala Highway and Kula Highway. Haleakala Highway and Kula Highway both serve as the principal arterial.
371	Haliimaile Road : Haleakala Highway (Route 37) > Kailua Road	0.00	0.70	Major Collector	Minor Collector	Rural		County	Paia-Haiku	This roadway connects Baldwin Avenue, which is a major collector and the Haleakala Highway, which is a principal arterial. According to the road hierarchy, it should be a minor collector. It serves the Haliimaile Town which has less than 1500 in population.
371	Haliimaile Road : Kailua Road > Baldwin Avenue (Route 390)	0.70	2.62	Major Collector	Minor Collector	Urban		County	Paia-Haiku	This roadway connects Baldwin Avenue, which is a major collector and the Haleakala Highway, which is a principal arterial. According to the road hierarchy, it should be a minor collector. It serves the Haliimaile Town which has less than 1500 in population. This section is now urban because it falls within the new urban boundary.
377	Haleakala Highway/Kekaulike Avenue : Kula Highway (Route 37) > Kula Highway (Route 37)	0.00	9.17	Collector	Major Collector	Urban		State	Makawao-Pukalani-Kula	This is the primary route to the Haleakala National Park and continuation of an existing major collector. *MP 1.00 to 9.17 is now urban because it falls within the new urban boundary.

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380	Dairy Road : Haleakala Highway (Route 36A) > Puunene Avenue (Route 3500)	0.00	0.96	Collector	Major Collector	Urban		State	Wailuku-Kahului	Dairy Road connects Haleakala Highway and Puunene Avenue, which both are principal arterials. The future Airport Access road will be the adjoining minor arterial. According to the road hierarchy, Dairy Road should be a major collector.
390	Baldwin Avenue : Hana Highway (Route 36) > end of urban boundary	0.00	2.00	Major Collector	Major Collector	Urban		County	Paia-Haiku	*MP 0.00 to 2.00 is now urban because it falls within the new urban boundary.
390	Baldwin Avenue : Haliimaile Road (Route 371) > Makawao Avenue (Route 365)	5.00	6.94	Collector	Major Collector	Urban		County	Paia-Haiku / Makawao-Pukalani-Kula	Provides connectivity from Haliimaile to Makawao, both ends are collectors. *MP 5.00 to 6.94 is now urban because it falls within the new urban boundary.
390	Olinda Road : Makawao Avenue (Route 365) > Hanamu Road	6.94	7.92	Collector	Local	Urban		County	Makawao-Pukalani-Kula	This roadway dead ends southeast of Makawao Avenue. It does not provide roadway system connectivity nor connectivity. No trip generators along the corridor.
3010	Front Street : Honoapiilani Highway N Junction (Route 30) > Shaw Street (Route 3050)	0.00	1.97	Collector	Major Collector	Urban		County	West Maui	It's classified as a major collector according to the road hierarchy. Adjoining Honoapiilani Highway serves as a principal arterial. This section of the facility is heavily used serving the Lahaina Town.
3010	Front Street : Shaw Street (Route 3050) > Honoapiilani Highway S Junction (Route 30)	1.97	2.67	Collector	Minor Collector	Urban		County	West Maui	It's classified as a minor collector according to the road hierarchy. Adjoining Honoapiilani Highway serves as a principal arterial.
3015	Wainee Street : Kenui Street (Route 3070) > Lahainaluna Road (Route 3040)	0.00	0.46	Collector	Minor Collector	Urban		County	West Maui	It is classified as a minor collector according to the road hierarchy as adjoining Honoapiilani Highway serves as a principal arterial and Front Street serves as a major collector. Wainee Street runs parallel to both Honoapiilani Highway and Front Street.
3015	Wainee Street : Lahinaluna Road (Route 3040) > Shaw Street (Route 3050)	0.46	1.10	Collector	Local	Urban			West Maui	This section of Wainee Street will be classified to a local road. The adjoining Front Street serves as a minor collector in the area.
3020	Papalaua Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.23	Collector	Major Collector	Urban		County	West Maui	This is the primary route from Honoapiilani Highway to the shopping centers.
3025	Kaniau Road/Ainakea Street : Honoapiilani Highway (Route 30) > Kapunakea Street (Route 3060)	0.00	0.92	Collector	Minor Collector	Urban		County	West Maui	This roadway runs parallel to Honoapiilani Highway. It mainly serves the community. AADT is low.
3030	Dickenson Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.27	Collector	Minor Collector	Urban		County	West Maui	This roadway is one of many access roads in Lahaina that connect Honoapiilani Highway and Front Street.
3040	Lahainaluna Road : Front Street (Route 3010) > Lahainaluna School entry	0.00	1.63	Collector	Major Collector	Urban		County	West Maui	This roadway is one of many access roads in Lahaina that connect Honoapiilani Highway and Front Street. However, this roadway is heavily used as it provides direct access to three schools.
3050	Shaw Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.20	Collector	Minor Collector	Urban		County	West Maui	This roadway is one of many access roads in Lahaina that connect Honoapiilani Highway and Front Street.

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Justification of Changes to the Federal-Aid System: County of Maui

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
3060	Kapunakea Street : Front Street (Route 3010) > Lahaina Bypass (Route 3000)	0.00	0.80	Collector	Major Collector	Urban		County	West Maui	This roadway is one of many access roads in Lahaina that connect Honoapiilani Highway and Front Street. It will also connect to Lahaina Bypass.
3070	Kenui Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.20	Collector	Minor Collector	Urban		County	West Maui	This roadway is one of many access roads in Lahaina that connect Honoapiilani Highway and Front Street.
3075	Keawe Street : Honopiilani Highway (Route 30) > Lahaina Bypass (Route 3000)	0.00	0.90	Collector	Major Collector	Urban		County	West Maui	This roadway is one of many access roads in Lahaina that connect Honoapiilani Highway and Front Street. It will also connect to Lahaina Bypass. This is a connector for the first phase of Lahaina Bypass, Phase 1A.
3080	Lower Honoapiilani Road : Honoapiilani Highway (Route 30) > Napilihau Street (Route 3090)	0.00	3.32	Collector	Major Collector	Urban		County	West Maui	This roadway runs parallel to Honoapiilani Highway through town and connects with local roads.
3090	Napilihau Street : Lower Honoapiilani Road (Route 3080) > Honoapiilani Highway (Route 30)	0.00	0.26	Collector	Major Collector	Urban		County	West Maui	This roadway provides connectivity between Lower Honoapiilani Road, a major collector, and Honoapiilani Highway, an arterial.
3100	South Kihei Road : North Kihei Road (Route 310) > Okolani Drive (Route 3125)	0.00	6.22	Collector	Major Collector	Urban		County	Kihei-Makena	This roadway runs from Kihei to Makena and it's parallel to Piilani Highway, which is the principal arterial.
3115	Kenolio Road : Uwapo Road > Hoopili Akau Street	0.00	1.21	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway runs parallel to South Kihei Road and Piilani Highway through the communities. According to the road hierarchy, it should be a minor collector.
3115	North-South Connector: Kenolio Street > Keonekai Road	1.21	4.91	Collector	Major Collector	Urban		County	Kihei-Makena	Future mid-level road (and extension of existing Kenolio Road) to function as a major collector in the Kihei-Makena area; parallel to Piilani Highway (principal arterial) and will provide essential multimodal transportation circulation.
3115	North-South Connector: Keonekai Road > Kilohana Road	4.91	7.00	Collector	Local	Urban		County	Kihei-Makena	Downgrade per Maui County's request and intent to connect to a different collector.
3120	Kilohana Drive : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.70	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3125	Okolani Drive : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.85	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3130	Keonekai Road : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.60	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3135	Wailea Alanui Drive : Kilohana Drive (Route 3120) > Wailea Ike Drive (3137)	0.00	1.34	Collector	Major Collector	Urban		County	Kihei-Makena	This road collects multiple streets and provides connectivity, both ends are collectors. It also serves major trip generators.
3137	Wailea Ike Drive : Piilani Highway (Route 31) > Wailea Alanui Drive (Route 3135)	0.00	0.60	Collector	Major Collector	Urban		County	Kihei-Makena	This road collects multiple streets and provides connectivity, both ends are collectors. It also serves major trip generators.

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Justification of Changes to the Federal-Aid System: County of Maui

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3138	Alanui Ke Alii Drive: South Kihei Road (Route 3100) > Piilani Highway (Route 31)	0.00	0.50	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3140	Kanani Road : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.50	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3150	Welakahao Road : South Kihei Road (Route 3100) > Piilani Highway (Route 31)	0.00	0.58	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3160	Lipoa Street : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.60	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3165	Piikea Avenue: South Kihei Road (Route 3100) > Piilani Highway (Route 31)	0.00	0.60	Collector	Major Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3170	Waipuilani Road : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.60	Collector	Minor Collector	Urban		County	Kihei-Makena	*MP 0.00 to 0.20 was identified as proposed in 2001 and has since been built. *MP 0.20 to 0.60 (previously MP 0.00 to 0.40) should be classified as a minor collector because it collects local roads and connects to Piilani Highway.
3175	Kulanihakoi Street : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.50	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is classified according to the road hierarchy. It connects Piilani Highway, which is a principal arterial and South Kihei Road, which is a major collector.
3180	Waiale Road: Wells Street (Route 3830) > Kuikahi Drive (Route 3210)	0.00	1.10	Collector	Major Collector	Urban		County	Wailuku-Kahului	This roadway is a heavily traveled residential collector that connects Wells Street to Kuikahi Drive, both are minor collectors.
3180	Waiale Road: Kuikahi Drive (Route 3210) > Honoapiilani Highway (Route 30)	1.10	1.36	Collector	Local	Urban		County	Wailuku-Kahului	This is not a true removal from the federal-aid system. This section of Waiale Road will be added to Route 3210 (Kuikahi Drive).
3185	E. Waiko Road: Honoapiilani (Route 30) > Waiale Road	0.00	0.42	NEW	Major Collector	Urban		County	Wailuku-Kahului	This roadway will connect Honoapiilani Highway (principal arterial) to Waiale Road (major connector). E. Waiko Road also extends to Kuihelani Highway, another principal arterial. The extention to Kuihelani Highway will be functionally classified in the future, when a small portion of privately owned roadway (Waiale to Pakana) is turned over to the City. It's an important collector road in the network. . * New route number assigned
3190	Ohukai Road : Hoalike Street > South Kihei Road (Route 3100)	0.00	0.97	Collector	Minor Collector	Urban		County	Kihei-Makena	This roadway is a heavily traveled residential collector that connects South Kihei Road and Piilani Highway. South Kihei Road is a major collector, while Piilani Highway is a principal arterial.

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Justification of Changes to the Federal-Aid System: County of Maui

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3200	West Main Street/lao Valley Road : High Street (Route 30) > lao Valley State Park	0.00	2.70	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This roadway is outside of the Wailuku/Kahului business district area. It mainly serves the lao Valley State Park.
3210	Kuikahi Drive : South Alu Road > Waiale Road (Route 3180)	0.00	0.90	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This roadway serves the neighborhood and connects to Honoapiilani Highway, which is a principal arterial.
3210	Kuikahi Drive : Honoapiilani Highway (Route 30) > Waiale Road (Route 3180)	0.90	1.16	Local	Minor	Urban		County	Wailuku-Kahului	This is not a true addition to the federal-aid system. This section of Kuikahi Drive is being transferred from Waiale Road (Route 3180).
3231	Mahalani Street/Waiinu Road : Kaahumanu Avenue (Route 32) > Waiale Road (Route 3180)	0.00	1.18	Collector	Major Collector	Urban		County	Wailuku-Kahului	This is a major roadway to the Maui Memorial Hospital.
3405	South Market Street/North Market Street : Wells Street (Route 3830) > Piihana Road	0.00	0.54	Collector	Major Collector	Urban		County	Wailuku-Kahului	This roadway collects multiple streets and serves significant trip generators.
3405	Kahekili Highway : Piihana Road > Waiehu Beach Road (Route 3400)	0.54	2.26	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This portion of the roadway serves as a neighborhood collector.
3410	Wahinepio Avenue : Kahului Beach Road (Route 3400) > Papa Avenue (Route 3910)	0.00	0.52	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This roadway travels through the Maui Central Park.
3420	Kanaloa Avenue : Kaahumanu Avenue (Route 32) > Kahului Beach Road (Route 3400)	0.00	0.90	Collector	Major Collector	Urban		County	Wailuku-Kahului	This roadway connects Kaahumanu Highway and Kahului Beach Road. Kaahumanu Highway is a principal arterial, while Kahului Beach Road is a minor arterial. According to road hierarchy, this roadway should be a major collector.
3600	Hansen Road: Mokulele Highway (Route 311) > Hana Highway (Route 36)	0.00	2.00	NEW	Minor Collector	Urban		County	Wailuku-Kahului	The jurisdiction of this facility just changed from private to the County. It's an upcountry road that connects Puunene Avenue and Hana Highway. It should be classified as a minor collector according to the road hierarchy in the region. *New route number assigned
3610	Loha Street/Iolani Street : Old Haleakala Highway (Route 367) > End of Iolani Street	0.00	1.61	Collector	Minor Collector	Urban		County	Makawao-Pukalani-Kula	This roadway serves the Pakalani community. It runs parallel to the Old Haleakala Highway, which serves as a major collector.
3620	Pukalani Street/Liholani Street : Old Haleakala Highway (Route 367) > Aina Lani Drive	0.00	1.40	Collector	Minor Collector	Urban		County	Makawao-Pukalani-Kula	Part of this road provides access to shops, the rest of the road serves as a neighborhood collector.
3630	Makani Road : Old Haleakala Highway (Route 367) > Makawao Avenue (Route 365)	0.00	2.00	Collector	Minor Collector	Urban		County	Makawao-Pukalani-Kula	This roadway is one of the two roads that connect the Pukalani community and the Makawao community. Adjoining Makawao Avenue serves as a major collector.
3700	Piilani Highway : Kula Highway (Route 37) > Haleakala National Park boundary	0.00	28.80	Local	Minor Collector	Rural		County	Kihei-Makena/Hana	This is the only road on the east side of the island and it connects Hana with Pulehu. This is not a true addition of the federal-aid system. It's a transfer from Route 31 to a new route number. * New route number assigned * MP 12.01 to 40.81 is being revised to MP 0.0 (Kula Highway) to 28.80

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Justification of Changes to the Federal-Aid System: County of Maui

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3700	Hana Highway : Haleakala National Park boundary > Keawa Place (Route 360)	28.80	38.59	Local	Major Collector	Rural		County	Hana	This is the only road on the east side of the island and it connects Hana with Pulehu. This is not a true addition of the federal-aid system. It's a transfer from Route 31 to a new route number. * New route number assigned * MP 40.81 to 50.60 is being revised to MP 28.80 (Haleakala National Park boundary) to 38.59
3830	Wells Street : South High Street (Route 30) > Waiale Road (Route 3830)	0.00	0.44	Collector	Minor Collector	Urban		County	Wailuku-Kahului	Collects multiple streets and provides connectivity, one end is an arterial and the other end is a collector.
3830	Waiale Road/East Main Street : Wells Street (Route 3830) > Waiehu Beach Road (Route 3400)	0.44	1.97	Collector	Major Collector	Urban		County	Wailuku-Kahului	This is a heavily traveled roadway connecting Kaahumanu Avenue and Waiehu Beach Road/Kahului Beach Road. AADT is high.
3840	Mill Street : North Market Street (Route 3405) > East Main Street (Route 3830)	0.00	0.65	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This roadway connects North Market Street and East Main Street, which both are major collector. According to road hierarchy, it should be a minor collector.
3910	Papa Avenue : Kaahumanu Avenue (Route 32) > Puunene Avenue (Route 3500)	0.00	2.56	Collector	Major Collector	Urban		County	Wailuku-Kahului	This roadway goes through the Kahului community and connects Kaahumanu Avenue and Puunene Avenue, which both serve as a principal arterial.
3920	Wakea Avenue : Kaahumanu Avenue (Route 32) > Hana Highway (Route 36)	0.00	1.65	Collector	Major Collector	Urban		County	Wailuku-Kahului	This roadway serves the Queen Kaahumanu Shopping Center and shops. It also connects Kaahumanu Avenue and Puunene Avenue, which both serve as a principal arterial.
3930	Hina Avenue : Wakea Avenue (Route 3920) > Papa Avenue (Route 3910)	0.00	0.80	Collector	Minor Collector	Urban		County	Wailuku-Kahului	Collects multiple streets and provides connectivity, one end is an arterial and the other end is a collector.
3930	Hina Avenue : Papa Avenue (Route 3910) > Ani Street	0.80	1.00	Collector	Local	Urban		County	Wailuku-Kahului	This section of Hina Street does not provide roadway system connectivity. It deadends at a cul-de-sac.
3940	Kamehameha Avenue : Hana Highway (Route 36) > Papa Avenue (Route 3910)	0.00	1.75	Collector	Minor Collector	Urban		County	Wailuku-Kahului	Collects multiple streets and provides connectivity, one end is an arterial and the other end is a collector.
3945	Alamaha Street : Kamehameha Avenue (Route 3940) > Dairy Road (Route 380)	0.00	0.70	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This roadway runs parallel to Hana Highway and connects to Dairy Road. Hana Highway serves as a principal arterial, while Dairy Road serves as a major collector. According to road hierarchy, it should be a minor collector.
3950	Lono Avenue : Kaahumanu Avenue (Route 32) > Papa Avenue (Route 3910)	0.00	1.30	Collector	Minor Collector	Urban		County	Wailuku-Kahului	This roadway mainly serves the community and the schools. It connects to Kaahumanu Avenue and dead ends south of Papa Avenue.
3950	Lono Avenue : Papa Avenue (Route 3910) > Makalii Street	1.30	1.54	Collector	Local	Urban		County	Wailuku-Kahului	This section of Lono Avenue does not provide roadway system connectivity. It deadends at a cul-de-sac.
3960	Onehee Avenue : Wakea Avenue > Papa Avenue (Route 3910)	0.00	0.66	Collector	Minor Collector	Urban		County	Wailuku-Kahului	Collects multiple streets and provides connectivity, both ends are collectors.
3960	Onehee Street : Papa Avenue (Route 3910) > Lalani Circle	0.66	0.80	Collector	Local	Urban		County	Wailuku-Kahului	This section of Onehee Street does not provide roadway system connectivity. It deadends at a cul-de-sac.

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3970	Kea Street : Wakea Avenue (Route 3920) > Papa Avenue (Route 3910)	0.00	0.60	Collector	Minor Collector	Urban		County	Wailuku-Kahului	Collects multiple streets and provides connectivity, both ends are collectors.
3970	Kea Street : Papa Avenue (Route 3910) > Palama Drive	0.60	0.78	Collector	Local	Urban		County	Wailuku-Kahului	This section of Kea Street does not provide roadway system connectivity. It deadends at a cul-de-sac.

MOLOKAI										
	No proposed changes									

LANAI										
430	Fraser Avenue : Kaumalapau Highway (Route 440) > Caldwell Avenue	0.00	0.90	Minor Collector	Major Collector	Rural		County	Lanai	This is one of the two main roads for the town.
435	Lanai Avenue : Kaumalapau Highway > end of county route	0.00	1.00	Minor Collector	Major Collector	Rural		County	Lanai	One of two main roads for town, only road to hotel
441	Airport Road : airport terminal > Kaumalapau Highway (Route 440)	0.00	0.47	Major Collector	Major Collector	Rural		State	Lanai	* Changed route number from Route 440c.
442	Kaumalapau Highway : Manele Road (Route 440) > Fraser Avenue (Route 430)	0.00	0.03	Major Collector	Major Collector	Rural		State	Lanai	This is an existing road that connects collectors which should be classified for continuity purposes. * Changed route number from Route 440s.
442	Kaumalapau Highway : Fraser Avenue (Route 430) > Lanai Avenue (Route 435)	0.03	0.20	Local	Major Collector	Rural		County	Lanai	Existing road that connects collectors Add to end of exisiting segment now named Route 442.

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Justification of Changes to the Federal-Aid System: County of Hawaii

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11	Kanoelehua Avenue/Volcano Road : Kamehameha Avenue (Route 19) > Old Keaau-Pahoa Road (Route 139)	0.00	7.30	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	South Hilo/Puna	*MP 5.65 to 7.30 is now urban because it falls within the new urban boundary.
11	Mamalahoa Highway : 0.01 miles past Capt. Cook Village Road (end of state highway) > Old Mamalahoa Highway (Route 180)	109.22	113.69	Minor Arterial	Principal Arterial	Urban	Yes	County	South Kona	MP 109.22 to 111.21 of Mamalahoa Highway should be upgraded to account for northbound traffic access to school. *MP 109.22 to 113.69 is proposed to be added to the NHS because it is upgraded to a principal arterial. *MP 109.22 to 111.21 is now urban because it falls within the new urban boundary.
11	Kuakini Highway/Queen Kaahumanu Highway : Old Mamalahoa Highway (Route 180) > Palani Road (Route 190)	113.69	122.08	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	South Kona	*MP 113.69 to 122.08 is proposed to be added to the NHS because it is a principal arterial.
19	Kawaihae Road/Queen Kaahumanu Highway : 0.19 miles past Laelae Road > Palani Road (Route 190)	57.90	99.59	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	South Kohala / North Kona	*MP 60.36 to 66.79 is now urban because it falls within the new urban boundary.
120	Kukui Camp Road : Volcano Road (Route 11) > end of paved road	0.00	1.09	Minor Collector	Local	Rural		County	Puna	This road serves neighborhood use and does not serve a connectivity purpose.
130	Keaau-Pahoa Road : Volcano Road (Route 11) > Pahoa-Kapoho Road (Route 132)	0.00	12.14	Minor Arterial	Minor Arterial	Urban		State	Puna	*MP 0.00 to 4.20 and 7.93 to 12.14 is now urban because it falls within the new urban boundary.
136	Opihikao Drive : Pahoa-Kalapana Road (Route 130) > Kalapana-Kapoho Road (Route 137)	0.00	5.26	Minor Collector	Local	Rural		County	Puna	Opihikao Drive serves the few houses in the neighborhood.
138	Kahakai Boulevard : Keeau-Pahoa Road (Route 130) > Papio Street	0.00	5.90	Major Collector	Major Collector	Urban		County	Puna	* This segment is now urban because it falls within the new urban boundary.
150	South Point Access Road : Mamalahoa Highway (Route 11) > end of route	0.00	10.70	Minor Collector	Local	Rural		County	Kau	This road has very low use. Parts of this road are one lane and restricted to 4WD.
161	Napoopoo Road : Puuhonua Road > Mamalahoa Highway (Route 11)	0.00	4.40	Collector	Major Collector	Urban		County	South Kona	Napoopoo Road provides connectivity between Captain Cook and Kealakekua.
162	Kinue Road : Hookipa Place > Mamalahoa Highway (Route 11)	0.00	0.20	Minor Collector	Local	Rural		County	South Kona	This road serves neighborhood use and does not serve a connectivity purpose.
164	Halekii Street : Mamao Street > Mamalahoa Highway (Route 11)	0.00	0.26	Collector	Major Collector	Urban		County	South Kona	This road will serve as a connector to Mamalahoa Bypass. Also, the community college is a large trip generator.
180	Haawina Street/Mamalahoa Highway : Kuakini Highway (Route 11) > Mamalahoa Highway (Route 190)	0.00	9.14	Collector	Minor Arterial	Urban		County	South Kona	This road provides a connection between two arterials and should be a minor arterial.

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182	Lako Street : Kuakini Highway (Route 11) > end of route (future connection to Alii Drive)	0.00	0.49	Collector	Minor Collector	Urban		County	South Kona	An FEA has been completed for the Lako Street Extension project. A park is not at the end of Lako Street, however, there will be Section 106 issues. The County is moving forward with this important mauka-makai connection.
184	Sunset Drive : Marlin Road > Kuakini Highway (Route 11)	0.00	0.32	Collector	Minor Collector	Urban		County	South Kona	Sunset Drive collects neighborhood roads and provides access to the principal arterial (Mamalahoa).
185	Kamehameha III Road : Kuakini Highway (Route 11) > Manukai Street	0.00	1.76	Collector	Major Collector	Urban		County	South Kona	There are large trip generators along this road and provides important mauka-makai connectivity.
186	Palani Road/ Alii Drive: Kuakini Highway (Route 11) > Mamalahoa Bypass	0.00	7.06	Collector	Major Collector	Urban		County	North Kona	There are large trip generators (shops and hotels), also serves as a collector for subdivisions.
186	Alii Drive : Mamalahoa Bypass > Kona Country Club gate	7.06	7.32	Collector	Local	Urban		County	South Kona	This section of Alii Drive does not provide roadway connectivity and should be a local road.
188	Hualalai Road : Alii Drive (Route 186) > Queen Kaahumanu Highway (Route 11)	0.00	1.30	Collector	Major Collector	Urban		County	North Kona	Hualalai Road provides connectivity between two a principal arterial and a major collector.
189	Kaleiopapa Road : Ehukai Street > Alii Drive (Route 186)	0.00	0.25	Collector	Minor Collector	Urban		County	North Kona	This road collects resort traffic to Alii Drive, a major collector.
190	Mamalahoa Highway : Makalei Golf Club > 0.02 Miles after Mamalahoa Highway (Route 180)	31.31	35.26	Minor Arterial	Minor Arterial	Urban		State	North Kona	*MP 31.31 to 35.26 is now urban because it falls within the new urban boundary.
190	Mamalahoa Highway : 0.02 Miles after Mamalahoa Highway (Route 180) > 0.06 Miles after Mamalahoa Highway (Route 180)	35.26	35.30	Minor Arterial	Minor Arterial	Urban		County	North Kona	*MP 35.26 to 35.30 is now urban because it falls within the new urban boundary.
190	Palani Road : 0.06 Miles after Mamalahoa Highway (Route 180) > Kuakini Highway (Route 1100)	35.30	38.99	Collector	Major Collector	Urban		County	North Kona	Palani Road has high use but should remain as a collector because it will not meet arterial design standards.
191	Waikoloa Road : Mamalahoa Highway (Route 190) > Queen Kaahumanu Highway (Route 19)	0.00	11.93	Minor Arterial	Minor Arterial	Urban		County	South Kohala	*MP 0.00 to 11.93 is now urban because it falls within the new urban boundary.
192	Hina Lani Street : Queen Kaahumanu Highway (Route 19) > Halolani Street	0.00	3.16	Local	Major Collector	Urban		County	North Kona	Hina Lani collects multiple roads in this industrial and residential area. This segment of the road is existing which contributes to circulation in the area. * New begin MP at Queen Kaahumanu Hwy (Route 19).

Blue: Urban/Rural boundary and NHS changes

Green: Upgrade to functional classification

Red: Downgrade to functional classification

Mustard: Major/Minor collector

Purple: New to federal-aid system

Justification of Changes to the Federal-Aid System: County of Hawaii

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUNCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
192	Hina Lani Street : Halolani Street > Mamalahoa Highway (Route 190)	3.16	3.60	Collector	Major Collector	Urban		County	North Kona	Hina Lani collects multiple roads in this industrial and residential area.
193	Holoholo Street : Kukuna Street > Kaiminani Drive (Route 198)	0.00	0.57	Collector	Local	Urban		County	North Kona	This road serves neighborhood use and does not serve a connectivity purpose.
194	Loloa Drive : Holu Street > Mamalahoa Highway (Route 190)	0.00	0.48	Collector	Local	Urban		County	North Kona	This road serves neighborhood use and does not serve a connectivity purpose.
196	Paniolo Avenue : Waikoloa Road (Route 191) > Hooko Street	0.00	1.64	Major Collector	Major Collector	Urban		County	South Kohala	Paniolo Avenue serves as the collector for Waikoloa town and access to an arterial (Waikoloa Road). *MP 0.00 to 1.64 is now urban because it falls within the new urban boundary.
198	Kaiminani Drive : Mamalahoa Highway (Route 190) > Queen Kaahumanu Highway (Route 19)	0.00	3.62	Collector	Major Collector	Urban		County	North Kona	Kaiminani Drive connects two arterials and should be a major collector.
200	Saddle Road : Mamalahoa Highway (Route 190) > Queen Kaahumanu Highway (Route 19)	44.92	54.00	NEW	Minor Arterial	Rural		State	South Kohala	Future extension of Saddle Road from Mamalahoa to Queen Kaahumanu Highway (currently in design).
210	Mauna Kea Access Road : Saddle Road (Route 200) > Observatory	0.00	14.96	Minor Collector	Local	Rural		County	North Hilo	Roadway serves important observatories and should remain a minor collector.
220	Honomu Road/Old Mamalahoa Highway/Akaka Falls Road: Hawaii Belt Road (Route 19) > Akaka Falls entrance	0.00	3.77	Major Collector	Minor Collector	Rural		State	South Hilo	These roads serve the town and small tourist attraction and can be downgraded to a minor collector.
222	Old Mamalahoa Highway : Hawaii Belt Road (NW junction) (Route 19) > Hawaii Belt Road (SE junction) (Route 19)	0.00	0.80	Major Collector	Minor Collector	Rural		County	North Hilo	This road serves important trip generators, Laupahoehoe School, library and a post office.
224	Pohakea Road : Paaui Road > Hawaii Belt Road (Route 19)	0.00	2.36	Minor Collector	Local	Rural		County	Hamakua	There are no large trip generators along Pohakea Road, primarily neighborhood use, and it does not serve a connectivity purpose.
226	Kalopa Road : Kalopa Mauka Road > Hawaii Belt Road (Route 19)	0.00	1.40	Minor Collector	Local	Rural		County	Hamakua	There are no large trip generators along Kalopa Road, primarily neighborhood use, and it does not serve a connectivity purpose.
228	Pikake Street : Ohia Street > Hawaii Belt Road (Route 19)	0.00	0.41	Major Collector	Minor Collector	Rural		County	Hamakua	Pikake Street serves as the town collector for Pahala and provides primary access to Mamalahoa Highway. From a hierarchy aspect, it makes sense to be a collector.

Blue: Urban/Rural boundary and NHS changes
Green: Upgrade to functional classification
Red: Downgrade to functional classification
Mustard: Major/Minor collector
Purple: New to federal-aid system

Justification of Changes to the Federal-Aid System: County of Hawaii

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUNCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
240	Honokaa-Waipio Road : Lehua Street/Plumeria Street (Route 227) > Waipio Valley lookout	1.50	9.62	Major Collector	Minor Collector	Rural		State	Hamakua	There is a lookout point at the end of Honokaa-Waipio Road, however the AADT indicates that it is not a very large trip generator and can be downgraded to a minor collector.
250	Kohala Mountain Road : Kawaihae Road (Route 19) > beginning of rural boundary	0.00	1.77	Collector	Major Collector	Urban		State	South Kohala	It is less use than a typical arterial but provides the main access to the northern Kohala area of the Big Island. It should remain as a major collector.
270	Akoni Pule Highway : Maluokalani Street > Niulii Bridge (#001002700502390)	2.44	25.39	Minor Arterial/Major Collector	Minor Arterial	Rural		State	North Kohala	Akoni Pule Highway provides access to Kawaihae Harbor. It's part of the NHS and also serves as the belt road to Hawi. It should remain as a minor arterial. *MP 19.32 to 25.39 should be upgraded to a minor arterial because it serves the town of Hawi.
274	Hawi Road : Akoni Pule Highway (Route 270) > Homestead Road	0.00	0.86	Minor Collector	Local	Rural		County	North Kohala	There are no large trip generators along Hawi Road, and does not serve a connectivity purpose.
1100	Kuakini Highway : Kaiwi Street (Route 1835) > Queen Kaahumanu Highway (Route 11)	0.00	3.08	Collector	Major Collector	Urban		County	South Kona	Kuakini Highway parallels a principle and minor arterial, for hierarchy purposes it should be a major collector.
1110	Alii Highway/Parkway : Alii Drive (Route 186) > Queen Kaahumanu Highway (Route 11)	0.00	4.44	Collector	Major Collector	Urban		County	South Kona	Future north/south major collector of regional significance mentioned in the County's General Plana and LRLTP.
1370	Kalaniana'ole Avenue : Kuhio Street > Pua Avenue	0.00	0.48	Principal Arterial - Other	Principal Arterial	Urban	Yes	State	South Hilo	This road provides access to a significant trip generator, Hilo Harbor. *MP 0.19 to 0.48 should be upgraded to a principal arterial because it also serves the harbor. *MP 0.19 to 0.48 is proposed to be added to the NHS because it is a principal arterial.
1370	Kalaniana'ole Avenue : Pua Avenue > Leleiwi Street	0.48	2.98	Collector	Major Collector	Urban		County	South Hilo	Collects multiple residential streets.
1810	Nani Kailua Drive : Hienaloli Road > Queen Kaahumanu Highway (Route 11)	0.00	0.83	Collector	Minor Collector	Urban		County	South Kona	Collects multiple residential streets.
1830	Henry Street : Kuakini Highway (Route 1100) > Queen Kaahumanu Highway (Route 11)	0.00	0.35	Collector	Major Collector	Urban		County	South Kona	Henry Street provides a connection between shopping areas.
1835	Kaiwi Street : Queen Kaahumanu Highway (Route 19) > Kuakini Highway (Route 1100)	0.00	0.52	Collector	Major Collector	Urban		County	South Kona	There are many trip generators along this road.

Blue: Urban/Rural boundary and NHS changes

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Purple: New to federal-aid system

Justification of Changes to the Federal-Aid System: County of Hawaii

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUNCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
1905	Kealakaa Street : Uluaoa Street > Palani Road (Route 190)	0.00	0.54	Collector	Minor Collector	Urban		County	South Kona	Collects multiple residential streets.
1910	Kamehameha Avenue : Waianuenue Avenue (Route 1950) > Pauahi Street (Route 19)	0.00	0.66	Collector	Minor Arterial	Urban		County	South Hilo	Parallels a Principal Arterial, from a hierarchy aspect it should be a minor arterial.
1920	Kilauea Avenue : Ponahawai Street (Route 2730)> Kanoelehua Avenue (Route 11)	0.00	4.08	Collector	Minor Arterial	Urban		County	South Hilo	Kilauea Avenue is a major north-south arterial in the town of Hilo and should be upgraded to a minor arterial. There are also significant trip generators along this road.
1921	Kilauea Avenue : Ponahawai Street (Route 2730) > Keawe Street	0.00	0.07	Collector	Minor Arterial	Urban		County	South Hilo	Kilauea Avenue is a major north-south arterial in the town of Hilo and should be upgraded to a minor arterial.
1921	Keawe Street : Kilauea Avenue (Route 1921) > Waianuenue Avenue (Route1950)	0.07	0.35	Collector	Minor Collector	Urban		County	South Hilo	Parallel to a minor arterial.
1925	Pauahi Street : Kamehameha Avenue (Route 19) > Kilauea Avenue (Route 1920)	0.00	0.30	Collector	Major Collector	Urban		County	South Hilo	Provides highway access into downtown Hilo.
1930	Kinoole Street : Wailuku Drive (Route 2860) > Haihai Street (Route 2740)	0.00	3.91	Collector	Minor Arterial	Urban		County	South Hilo	Kinoole Street is a major north-south arterial in the town of Hilo and should be upgraded to a minor arterial.
1940	Komohana Street : Waianuenue Avenue (Route 1950) > Ainaola Drive (Route 2750)	0.00	3.00	Collector	Major Collector	Urban		County	South Hilo	Important collector road with lots of traffic.
1950	Waianuenue Avenue/Kaumana Drive/Saddle Road : Kamehameha Avenue (Route 1910) > Hilo urban boundary (0.16 miles before Ua Nahele St)	0.00	7.84	Collector	Major Collector	Urban		County	South Hilo	Important collector road with lots of traffic. *MP 6.53 to 7.84 should be downgraded to a major collector to classify with the rest of the route until the end of the urban boundary.
1960	Railroad Avenue : Leilani Street > Kahaopea Street	0.00	1.35	Collector	Minor Collector	Urban		County	South Hilo	Parallels an arterial, but there are no large trip generators along this road.
1970	Kamehameha Avenue/Silva Street : Railroad Avenue > Kalaniana'ole Street (Route 19)	0.00	0.93	Principal Arterial - Other	Minor Collector	Urban		State	South Hilo	Downgrade this section because on this side of Kanoelehua Ave, Kalaniana'ole Ave is the Arterial
2000	Puainako Street : Railroad Avenue (Route 1960) > Komohana Street (Route 1940)	0.00	2.18	Collector	Major Collector	Urban		State	South Hilo	This road provides East-West connectivity. Endpoints are also collectors.
2000	Komohana Street/Puainako Street Extension: Puainako Street (Route 2000) > Kaumana Drive (Route 1950)	2.18	6.87	Collector	Minor Collector	Urban		State	South Hilo	One of two roads leading out of Hilo to Saddle Road, connects two classified roads.
2450	Old Mamalahoa Highway : Uikeoni Street > Hawaii Belt Road (Route 19)	0.00	0.45	Collector	Local	Urban		County	Hamakua	There are no significant trip generators along this road, it primarily serves neighborhood use.

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Justification of Changes to the Federal-Aid System: County of Hawaii

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUNCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
2460	Kamamalu Street : Mamalahoa Highway (Route 19) > Hiiaka Street	0.00	0.68	Collector	Minor Collector	Urban		County	South Kohala	This road collects multiple local roads to an arterial, but it does not contribute to connectivity.
2470	Lindsey Road : Hokuula Road > Kawaihae Road (Route 19)	0.00	0.29	Collector	Minor Collector	Urban		County	South Kohala	This road collects multiple local roads to an arterial, but it does not contribute to connectivity.
2710	Stainback Highway : Hilo south urban boundary > Volcano Road (Route 11)	0.00	1.49	Collector	Minor Collector	Urban		County	South Hilo	This road serves a trip generator and connects to an arterial. However, it does not contribute to connectivity.
2720	Waianuenue Avenue : Kaumana Drive (Route 1950) > Akolea Road (Route 2850)	0.00	2.11	Collector	Major Collector	Urban		County	South Hilo	Provides eastbound hospital access, as well as access to Saddle Road
2730	Ponahawai Street : Komohana Street (Route 1940) > Kamehameha Avenue (Route 1910)	0.00	1.11	Collector	Minor Collector	Urban		County	South Hilo	Endpoints are collectors, but with lower AADT, recommend changing to a Minor Collector.
2740	Haihai Street : Kilauea Avenue (Route 1920) > Kupulau Road	0.00	2.55	Collector	Major Collector	Urban		County	South Hilo	Collects many residential streets to an arterial.
2750	Ainaola Drive : Kawaihine Street (Route 2760)> Kupulau Road	0.00	2.15	Collector	Major Collector	Urban		County	South Hilo	Many residential streets connect to this major collector.
2760	Kawaihine Street/Kupulau Place : Kanoiehua Avenue (Route 11) > Kupulau Road	0.00	2.70	Collector	Major Collector	Urban		County	South Hilo	Many residential streets connect to this major collector.
2760	Kupulau Road: Kupulau Place (Route 2760) > Ainaola Drive (Route 2750)	2.70	3.90	Local	Minor Collector	Urban		County	South Hilo	Appropriate from a hierarchy and circulation point of view and a continuation of the Kupulau Place classification. No AADT data is available. Existing road to be added to the fed-aid to complete the collector circulation
2770	Iwalani Street : Haihai Street (Route 2740)> Puainako Street (Route 2000)	0.00	1.40	Collector	Minor Collector	Urban		County	South Hilo	Important north south connector.
2770	Kawili Street/Manono Street : Puainako Street (Route 2000) > Kamehameha Avenue (Route 19)	1.40	3.75	Collector	Major Collector	Urban		County	South Hilo	This road collects multiple streets and provides north-south connectivity, one end is a collector and the other end is an arterial.
2790	Mohouli Street : Kilauea Avenue (Route 1920) > Komohana Street (Route 1940)	0.00	1.14	Collector	Major Collector	Urban		County	South Hilo	This road collects multiple streets and provides connectivity, one end is a collector and the other end is an arterial.
2810	Kekuanaoa Street : Kanoiehua Avenue (Route 11) > Kilauea Avenue (Route 1920)	0.00	0.81	Collector	Major Collector	Urban		County	South Hilo	Connects to airport access and collects local roads.

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Justification of Changes to the Federal-Aid System: County of Hawaii

ROUTE NUMBER	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	CURRENT FUNCTIONAL CLASSIFICATION	PROPOSED FUNCTIONAL CLASSIFICATION	RURAL/ URBAN	NHS	OWNERSHIP	Planning District	Comments
2820	Lanikaula Street/Kumukoa Street : Kanoelehua Avenue (Route 11) > Mohouli Street (Route 2790)	0.00	1.81	Collector	Major Collector	Urban		County	South Hilo	This road collects multiple streets and provides connectivity, one end is a collector and the other end is an arterial.
2840	Ainako Avenue/Lahi Street : Kaumana Drive (Route 1950) > Waianuenue Avenue (Route 2720)	0.00	1.50	Collector	Minor Collector	Urban		County	South Hilo	Endpoints are collectors. Makes hierarchical sense to keep as a minor collector.
2850	Akolea Road : Wainuenue Avenue (Route 2720) > Kaumana Drive (Route 1950)	0.00	1.88	Collector	Minor Collector	Urban		County	South Hilo	Endpoints are collectors. Makes hierarchical sense to keep as a minor collector.
2860	Wainaku Avenue/Wailuku Drive : Mamalahoa Highway (Route 19) > Waipahoehoe Lane	0.00	1.42	Local	Major Collector	Urban		County	South Hilo	This segment completes circulation in the area. * New milepost at the beginning of the route at Mamalahoa Hwy (Route 19)
2860	Wainaku Avenue/Wailuku Drive : Waipahoehoe Lane > Kinoole Street (Route 1930)	1.42	1.80	Collector	Major Collector	Urban		County	South Hilo	This road collects multiple streets and provides connectivity, one end is a collector and the other end is an arterial.
HI7P	Kawaihae Harbor : Kawaihae Road (Route 270) > Pier 1 terminal	0.00	0.18	Local	Local	Urban	Yes	Port	South Hilo	This road serves Kawaihae Harbor. *MP 0.00 to 0.18 is now urban because it falls within the new urban boundary.
HI8A	Keahole Airport Road/Kupipi Street : Queen Kaahumanu Hwy (Route 19) > Keahole Airport Road	0.00	1.46	Local	Local	Urban	Yes	Port	North Kona	This road serves the Keahole Airport. *MP 0.00 to 1.46 is now urban because it falls within the new urban boundary.

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Appendix J

Updated System Analysis

For the most part, the updated statewide functional classification is in line with FHWA's guidance regarding functional system characteristics. FHWA recognizes that Hawaii, as an island state, may have roads on small islands or in other areas that are isolated from the rest of the state. Therefore, the state is likely to have a different breakdown of lane miles for arterials, collectors, and local roadways than what would be typically expected. Overall, the amount of change in arterials and collectors from the previous system is minor. The 2012 update increased the percentage of miles on arterials by six percent, and decreased the percentage of miles on collectors by seven percent. There was no discernible change to the Federal-Aid Highway system.

Typical statewide breakdown of mileage from FHWA² for percent miles for functional classification systems is described below, compared with the percentage of miles in the updated Hawaii statewide system.

	FHWA	Hawaii
Arterials and Collectors	35%	38%
Rural Principal Arterials	4%	2%
Urban Principal Arterials	10%	8%

FHWA recommends that the combined percentage of miles on all arterials and collectors combined is a maximum of 35 percent of statewide route mileage. The Hawaii Functional Classification update is 38 percent, though Hawaii's unique topography allows for an exception as many of the statewide arterial routes are the only possible road in a coastal or mountainous terrain area.

FHWA recommends that rural principal arterials comprise a maximum of 4 percent of statewide route mileage – the Hawaii Functional Classification Update has 2 percent rural principal arterials. For urban principal arterials, FHWA recommends no more than 10 percent of statewide routes mileage; the update includes 8 percent urban principal arterials.

The detailed changes from this update to the centerline miles of roadways by specific classification are as follows:

STATEWIDE CLASSIFICATION (all numbers in centerline miles)	Existing Miles	New Miles	Total Miles	Percent Change
Urban Interstate	39.58	15.32	54.90	39%
Rural Interstate	15.32	-15.32	0.00	-100%
Urban Other Freeway/Expressway	27.84	5.81	33.65	21%
Urban Other Principal Arterial	224.56	51.97	276.53	23%
Rural Other Principal Arterial	129.72	-58.87	70.85	-45%
Urban Minor Arterial	123.85	89.95	213.80	73%
Rural Minor Arterial	292.61	-35.40	257.21	-12%
Urban Collector	395.94	42.72	438.66	11%
Rural Major Collector	321.12	-91.22	229.90	-28%
Rural Minor Collector	123.08	-35.24	87.84	-29%
Statewide Summary				
Arterials	853.48	53.46	906.94	6%
Collectors (Rural Minor excluded)	717.06	-48.50	668.56	-7%
Federal Aid	1570.54	4.96	1575.50	0%

² <http://www.fhwa.dot.gov/policy/ohpi/hpms/fchguidance.cfm>



Appendix K

Federal-Aid System

Federal-Aid System: County of Kauai

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS CODE	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
50	Kaumualii Highway : Rice Street (Route 5020)> Cane Haul Road (dirt road)	0.00	2.10	3	Urban NHS			2.10			
50	Kaumualii Highway : Cane Haul Road (dirt road) > Maluhia Road (Route 520)	2.10	6.69	3	Rural NHS			4.59			
50	Kaumualii Highway : Maluhia Road (Route 520) > Omao bridge (#007000500302465)	6.69	8.27	4	Rural				1.58		
50	Kaumualii Highway : Omao bridge (#007000500302465) > Lele Road	8.27	17.02	4	Urban				8.75		
50	Kaumualii Highway : Lele Road > Waimea River Bridge (#007000500301039)	17.02	22.47	4	Rural				5.45		
50	Kaumualii Highway : Waimea River bridge (#007000500301039) > Bridge #4 (#007000500300570)	22.47	27.21	4	Urban				4.74		
50	Kaumualii Highway/Lio Road/Kao Road : Bridge #4 (#007000500300570) > North entrance gate of the Pacific Missile Range Facility	27.21	32.93	4	Rural				5.72		
51	Waapa Road/Rice Street/Kapule Highway : Nawiliwili Road (Route 58) > Kuhio Highway (Route 56)	0.00	3.44	3	Urban NHS			3.44			
56	Kuhio Highway : Rice Street/Kaumualii Hwy (Route 50) > 0.11 miles past Mailihuna Road (Route 5870)	0.00	9.95	3	Urban NHS			9.95			
56	Kuhio Highway : 0.11 miles past Mailihuna Road (Route 5870) > Aliomanu Road (North connection)	9.95	15.11	4	Urban				5.16		
56	Kuhio Highway : Aliomanu Road > Route markers 56 and 560 (same as begin Route 560, Kuhio Hwy)	15.11	28.11	4	Rural				13.00		
58	Nawiliwili Road : Waapa Road (Route 51) > Kaumualii Highway (Route 50)	0.00	2.06	3	Urban NHS			2.06			
520	Maluhia Road : Kaumualii Highway (Route 50) > Wailaau Road	0.00	2.77	4	Rural				2.77		
520	Maluhia Road/Koloa Road : Wailaau Road > Poipu Road (Route 520)	2.77	3.35	4	Urban				0.58		
520	Poipu Road : Koloa Road (Route 530) > Ala Kinoiki Way (Route 522) and Pee Road	3.35	6.35	5	Urban					3.00	
521	Omao Road : Kaumualii Highway (Route 50) > Koloa Road (Route 530)	0.00	2.12	6	Urban						2.12
522	Ala Kinoiki Way : Poipu Road (Route 520) > Koloa Road (Route 530)	0.00	3.32	5	Urban					3.32	
523	Lawai Road : Poipu Road (Route 520) > Sprouting Horn Beach Park parking lot exit	0.00	1.90	5	Urban					1.90	
523	Lawai Road : Sprouting Horn Beach Park parking lot exit > Gate at the end of route	1.90	2.35	5	Rural					0.45	
525	Weliweli Road : Koloa Road (Route 526) > Ala Kinoiki Way (Route 522)	0.00	0.66	6	Urban						0.66
526	Koloa Road/Waikomo Road : Maluhia Road (Route 520) > Poipu Road (Route 520)	0.00	0.76	5	Urban					0.76	

Federal-Aid System: County of Kauai

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS CODE	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
530	Koloa Road : Kaumualii Highway (Route 50) > Poipu Road (Route 520)	0.00	3.43	5	Urban					3.43	
531	Papalina Road : Kaumualii Highway (Route 50) > Waha Road (Route 532)	0.00	1.21	5	Urban					1.21	
532	Waha Road/Lauoho Road : Niho Road > Koloa Road (Route 530)	0.00	2.41	6	Urban						2.41
534	Puuwai Road : Kaumualii Highway (Route 50) > Kikala Road	0.00	1.45	6	Urban						1.45
536	Piko Road : Kaumualii Highway (Route 50) > Koloa Road (Route 530)	0.00	0.40	6	Urban						0.40
540	Halewili Road : Kaumualii Highway (east junction)(Route 50) > Kaumualii Highway (west junction) (Route 50)	0.00	3.87	5	Rural					3.87	
541	Waialo Road : Kaumualii Highway (Route 50) > "End of State Highway" sign at Port Allen	0.00	0.37	5	Urban					0.37	
543	Moi Road : Kaumualii Highway (Route 50) > Gate at the end of road	0.00	1.41	6	Urban						1.41
545	Hanapepe Road : Kaumualii Highway (west junction) (Route 50) > Kaumualii Highway (east junction) (Route 50)	0.00	0.98	6	Urban						0.98
550	Waimea Canyon Drive : Kaumualii Highway (Route 50) > Nele Road	0.00	0.43	5	Urban					0.43	
550	Waimea Canyon Drive/Kokee Road : Nele Road > Kokee State Park	0.43	14.10	5	Rural					13.67	
551	Kekaha Road/Akialoa Road : Kaumualii Highway (east junction) (Route 50) > Kaumualii Highway (west junction) (Route 50)	0.00	2.52	6	Urban						2.52
552	Alae Road/Kokee Road : Kaumualii Highway (Route 50)> Waimea Canyon Drive (Route 550)	0.00	7.55	5	Rural					7.55	
553	Menehune Road : Kaumualii Highway (Route 50) > Gay Road	0.00	1.10	6	Urban						1.10
554	Waimea Road : Kaumualii Highway (Route 50) > Ala Wai Road	0.00	0.20	6	Urban						0.20
560	Kuhio Highway : end of Route 56 > Aku Road (Route 563)	0.00	2.65	4	Rural				2.65		
560	Kuhio Highway : Aku Road (Route 563) > Haena State Park parking lot	2.65	10.01	5	Rural					7.36	
562	Kolo Road/Kilauea Road : Kuhio Highway (Route 56) > Mihi Road	0.00	1.16	5	Rural					1.16	
562	Kilauea Road : Mihi Road > Kilauea National Wildlife Refuge	1.16	1.71	6	Rural						0.55
563	Aku Road : Kuhio Highway (Route 560) > Weke Road (Route 565)	0.00	0.25	5	Rural					0.25	
565	Weke Road : Anae Road > Hanalei Beach Park	0.00	1.09	5	Rural						1.09
566	Anahola Road/Manai Road/Kukuihale Road : Kuhio Hwy (N junction) (Route 56) > Kuhio Hwy (S junction) (Route 56)	0.00	1.68	5	Urban					1.68	
570	Ahukini Road : Kuhio Highway (Route 56) > 0.06 miles east of Kapule Highway (Route 51)	0.00	1.12	3	Urban NHS			1.12			

Federal-Aid System: County of Kauai

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS CODE	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
580	Kuamoo Road : Kuhio Highway (Route 56) > Kamalu Road (Route 581)	0.00	2.77	4	Urban				2.77		
580	Kuamoo Road : Kamalu Road (Route 581) > UH AGR. Station	2.77	4.81	5	Urban					2.04	
580	Kuamoo Road : UH AGR. Station > Forest Reserve Sign (end of urban boundary)	4.81	6.46	6	Urban						1.65
580	Kuamoo Road : Forest Reserve Sign (end of urban boundary) > Beginning of the ford crossing (end of 2 lane section)	6.46	6.68	6	Rural						0.22
581	Kukui Street/Olohena Road : Kuhio Highway (Route 56) > Kamalu Road (Route 581)	0.00	3.42	5	Urban					3.42	
581	Kamalu Road : Olohena Road (Route 581)> Kuamoo Road (Route 580)	3.42	5.06	6	Urban						1.64
583	Maalo Road : Kuhio Highway (Route 56) > Cane Haul Road/Quarry Road (end of urban boundary)	0.00	0.92	6	Urban						0.92
5010	Puhi Road : Kaumualii Highway (Route 50) > Kaneka Street	0.00	0.36	5	Urban					0.36	
5010	Puhi Road : Kaneka Street > Hulemalu Street	0.36	1.00	5	Urban						0.64
5020	Rice Street : Kapule Highway (Route 51) > Kaumualii Highway (Route 50)	0.00	1.00	4	Urban				1.00		
5030	Nuhou Street : Kaumualii Highway (Route 50) > Halehaka Road	0.00	1.30	5	Urban					1.30	
5035	Kalepa Street : Kaumualii Highway (Route 50) > Pikake Street	0.00	0.43	5	Urban					0.43	
5040	Haleko Road : Rice Street (Route 5020) > Nawiliwili Road (Route 58)	0.00	0.68	5	Urban					0.68	
5710	Umi Street : Rice Street (Route 5020) > Ahukini Road (Route 570)	0.00	0.50	6	Urban						0.50
5720	Hardy Street : Kuhio Highway (Route 56) > Rice Street (Route 5020)	0.00	0.70	5	Urban					0.70	
5730	Puaole Street : Umi Street (Route 5710) > Hoolako Street	0.00	0.80	6	Urban						0.80
5740	Laukona Street : Kuhio Highway (Route 56) > Laukona Street [loop]	0.00	1.05	6	Urban						1.05
5750	Hanamalu Road : Kuhio Highway (Route 56) > Hehi Road	0.00	0.30	6	Urban						0.30
5805	Ulu Street : Kuhio Highway (Route 56) > Kukui Street (Route 581)	0.00	0.20	6	Urban						0.20
5840	Haleilio Road : Kuhio Highway (Route 56) > Kaulana Road	0.00	1.25	6	Urban						1.25
5850	Nonou Road : Haleilio Road (Route 5840) > Lanakila Road	0.00	0.57	6	Urban						0.57
5860	Kawaihau Road : Kuhio Highway (Route 56) > Kapahi Road	0.00	3.00	5	Urban					3.00	
5860	Kawaihau Road/Kaapuni Road : Kapahi Road > Olohena Road (Route 581)	3.00	4.78	6	Urban						1.78
5865	Hauaala Road : Kuhio Highway (Route 56) > Kawaihau Road (Route 5860)	0.00	1.06	6	Urban						1.06
5870	Mailihuna Road : Kuhio Highway (Route 56) > Kawaihau Road (Route 5860)	0.00	0.57	5	Urban					0.57	

Federal-Aid System: City and County of Honolulu

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS CODE	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
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61	Pali Highway/Kalaniana'ole Highway : Vineyard Boulevard (Route 98) > Kailua Road (Route 61)	0.00	9.50	2	Urban NHS		9.50				
61	Kailua Road : Kalaniana'ole Highway (Route 61) > northeast end of Kawainui bridge (Bridge # 003000610401060/1)	9.50	10.60	3	Urban NHS			1.10			
63	Kalihi Street : Nimitz Highway (Route 92) > King Street (Route 7402)	0.00	0.62	4	Urban				0.62		
63	Kalihi Street : King Street (7402) > H-1 underpass	0.62	0.86	3	Urban NHS			0.24			
63	Likelike Highway : H-1 underpass > Kahekili Highway (Route 83)	0.86	8.28	2	Urban NHS		7.42				
64	Sand Island Parkway/Sand Island Access Road : 0.20 miles before Ulupono Street (Sand Island park entrance) > Nimitz Highway (Route 92)	0.00	2.60	3	Urban NHS			2.60			
65	Kaneohe Bay Drive/Mokapu Saddle Road/Mokapu Boulevard : Kamehameha Highway (Route 83) > Kalaheo Avenue (Route 6012)	0.00	4.15	3	Urban NHS			4.15			
72	Kalaniana'ole Highway : Kailua Road (Route 61) > Hawaii Kai Drive (7911)	0.00	14.27	3	Urban NHS			14.27			
72	Kalaniana'ole Highway : Hawaii Kai Drive (7911) > Ainakoa Avenue (Route 7941)	14.27	18.44	2	Urban NHS		4.17				
76	Fort Weaver Road : 0.01 miles before Popoi Place (Fort Weaver Gate) > North Road (Route 7145)/Kimopelekane Road	0.00	1.28	4	Urban				1.28		
76	Fort Weaver Road: North Road (Route 7145)/Kimopelekane Road > Renton Road (Route 7146)	1.28	3.99	3	Urban NHS			2.71			
76	Fort Weaver Road/Kunia Road : Renton Road (Route 7146) > H-1 overpass	3.99	6.64	2	Urban NHS		2.65				
78	Moanalua Freeway : Ramp #2 at Aiea Interchange (Route 99) > beginning of H-1 underpass and H-1 ramp	0.00	0.74	2	Urban NHS		0.74				
80	Kamehameha Highway : Wilikina Drive (Route 99) > Kamananui Road (Route 99)	0.00	1.88	3	Urban NHS			1.88			
83	JP Leong Highway/Kamehameha Highway/Kahekili Highway/Likelike Highway/Kamehameha Highway : Kaukonahua Road (Route 930) > Pali Highway (Route 61)	0.00	43.92	3	Urban NHS			43.92			
92	Kamehameha Highway/Nimitz Highway/Ala Moana Boulevard : Pearl Harbor main gate > Kalakaua Avenue (Route 7612)	0.00	9.26	3	Urban NHS			9.26			
93	Farrington Highway : Palilalai overpass > 0.22 miles past Na Ohi Kilolo Stream bridge (#3009300500088)	0.00	16.73	3	Urban NHS			16.73			
93	Farrington Highway : 0.22 miles past Na Ohi Kilolo Stream bridge (#3009300500088) > Satellite Tracking Station Road (Kaena Point State Park)	16.73	19.53	4	Rural				2.80		

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98	Olomea Street/Halona Street/Vineyard Boulevard : ramp from H-1 > on-ramp to H-1	0.00	1.76	3	Urban NHS			1.76			
99	Kamehameha Highway/Kamananui Road/Wilikina Drive : JP Leong Highway (Route 83) > Kunia Road (Route 750)	0.00	9.08	3	Urban NHS			9.08			
99	Wilikina Drive/Kamehameha Highway/Farrington Highway : Kunia Road (Route 750) > Acacia Road (Route 7228)	9.08	18.25	2	Urban NHS		9.17				
99	Kamehameha Highway : Acacia Road (Route 7228) > end of route (Pearl Harbor interchange)	18.25	23.83	3	Urban NHS			5.58			
750	Kunia Road : H-1 interchange > 1.06 miles past Anonui Street	0.00	2.00	3	Urban NHS			2.00			
750	Kunia Road : 1.06 miles past Anonui Street > 0.15 miles before divided highway	2.00	7.04	4	Rural				5.04		
750	Kunia Road : 0.15 miles before divided highway > Wilikina Drive (Route 99)	7.04	8.05	4	Urban NHS				1.01		
801	Kaukonahua Road : Kamehameha Highway (Route 80) > Kamananui Road (Route 99)	0.00	0.20	4	Urban				0.20		
801	Kaukonahua Road : Kamananui Road (Route 99) > Wilikina Drive (Route 803)	0.20	2.20	4	Rural				2.00		
803	Wilikina Drive/Kaukonahua Road : Kamananui Road (Route 99) > beginning of urban boundary	0.00	5.04	4	Rural				5.04		
803	Kaukonahua Road : beginning of urban boundary > Farrington Highway (Route 930)	5.04	5.84	4	Urban				0.80		
901	Fort Barrette Road : Naval Reservation gate > Makakilo overpass	0.00	1.38	3	Urban NHS			1.38			
930	Farrington Highway : 0.09 miles west of Dillingham Airfield Access Road (Kaena Point State Park boundary) > Dillingham Air Field Entrance	0.00	2.15	4	Rural				2.15		
930	Farrington Highway/Kaukonahua Road/Farrington Highway : Dillingham Air Field Entrance > Joseph P Leong Highway (Route 83)	2.15	7.92	4	Urban				5.77		
6001	Kailua Road : Kawainui Stream bridge (#003000610401060)> Oneawa Street (Route 6016)	0.00	0.20	3	Urban NHS			0.20			
6010	Hamakua Drive : Keolu Drive (Route 6013) > Kailua Road (Route 61)	0.00	0.85	4	Urban				0.85		
6011	Kailua Road : Oneawa Street (Route 6016) > Kalaheo Avenue (Route 6012)	0.00	1.06	5	Urban					1.06	
6012	Kalaheo Avenue: Kailua Road (Route 6011) > Mokapu Boulevard (Route 65)	0.00	2.10	5	Urban					2.10	

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6013	Keolu Drive : Kalanianaʻole highway (Route 72) > Keolu Drive	0.00	3.17	5	Urban					3.17	
6014	Kuulei Road : Kailua Road (Route 6011) > Kalaheo Avenue (Route 6012)	0.00	0.60	4	Urban				0.60		
6015	Mokapu Road : North Kalaheo Avenue (Route 6012) > Kaneohe Marine Corps Air Station	0.00	0.60	5	Urban					0.60	
6016	Oneawa Street : Kailua Road (Route 6011) > Mokapu Boulevard (Route 65)	0.00	1.30	4	Urban				1.30		
6017	Wanaao Road : Kailua Road (Route 6011) > Keolu Drive (Route 6013)	0.00	0.85	6	Urban						0.85
6020	Naniali Street : Keolu Drive (Route 6013) > Kina Street (Route 6048)	0.00	0.27	6	Urban						0.27
6025	Kanapuu Drive : Kalanianaʻole Highway (Route 72) > Keolu Drive (Route 6013)	0.00	0.73	6	Urban						0.73
6041	Kainalu Drive : Kainui Drive (Route 6042) > Kailua Road (6011)	0.00	1.76	6	Urban						1.76
6042	Kainui Drive : Oneawa Street (Route 6016) > Kalaheo Avenue (Route 6012)	0.00	0.70	6	Urban						0.70
6043	Kihapai Street/Punaa Street : Oneawa Street (Route 6016) > Oneawa Street (Route 6016)	0.00	1.03	6	Urban						1.03
6044	Kalama Street : Oneawa Street (Route 6016) > Kainalu Drive (Route 6041)	0.00	0.38	6	Urban						0.38
6045	South Kalaheo Avenue/Lihiwai Road/Kawailoa Road : Kailua Road (Route 6011) > Alala Road	0.00	0.53	4	Urban				0.53		
6045	Alala Road : Kawailoa Road > Mokulua Drive	0.53	0.60	5	Urban					0.07	
6046	Awakea Road/Ka Awakea Road : Wanaao Road (Route 6017) > Papalani Street (Route 6047)	0.00	0.33	6	Urban						0.33
6047	Papalani Street : Wanaao Road (Route 6017) > Keolu Drive (Route 6013)	0.00	0.43	6	Urban						0.43
6048	Hele Street/Kina Street : Keolu Drive (Route 6013) > Hele Street (Route 6048)	0.00	1.65	6	Urban						1.65
6049	Akamai Street/Akumu Street : Keolu Drive (Route 6013) > Keolu Drive (Route 6013)	0.00	1.20	6	Urban						1.20
6050	Ulumanu Drive/Ulupii Street/Uluhala Street : Kailua Road (Route 61) > Kalanianaʻole Highway (Route 61)	0.00	1.09	6	Urban						1.09

Federal-Aid System: City and County of Honolulu

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6051	Aulua Road/Maunawili Road : Kalanianaʻole Highway (Route 61) > Aloha Oe Drive	0.00	1.26	6	Urban						1.26
6510	Kamehameha Highway : Kaneohe Bay Drive (Route 65) > Haiku Road (Route 6542)	0.00	1.42	4	Urban				1.42		
6510	Kamehameha Highway : Haiku Road (Route 6542) > Kahekili Highway (Route 83)	1.42	5.57	5	Urban					4.15	
6511	Kaneohe Bay Drive : Mokapu Saddle Road (Route 65) > Mokapu Boulevard (Route 65)	0.00	2.62	5	Urban					2.62	
6542	Haiku Road : Kamehameha Highway (Route 6510) > Kahekili Highway (Route 83)	0.00	0.70	4	Urban				0.70		
6542	Haiku Road : Kahekili Highway (Route 83) > Kahuhipa Street (Route 6544)	0.70	1.20	6	Urban						0.50
6543	Keaahala Road : Kamehameha Highway (Route 6510) > Pookela Street	0.00	0.75	5	Urban					0.75	
6544	Kahuhipa Street : Kamehameha Highway (Route 6510) > Kahekili Highway (Route 83)	0.00	0.63	5	Urban					0.63	
6544	Kahuhipa Street : Kahekili Highway (Route 83) > Haiku Road (Route 6542)	0.63	1.19	6	Urban						0.56
6545	Lilipuna Road/Waialele Road/William Henry Road: Kamehameha Highway (Route 6510) > Kamehameha Highway (Route 6510)	0.00	1.37	6	Urban						1.37
6546	Waikalua Road : Kamehameha Highway (Route 6510) > Kaneohe Beach Park	0.00	1.03	5	Urban					1.03	
6547	Anoi Road/Luluku Road : Kapunahala Elementary entrance > Kamehameha Highway (Route 83)	0.00	1.07	6	Urban						1.07
6548	Koa Kahiko Street/Kenela Street/Namoku Street : Kamehameha Highway (Route 83) > Mokulele Drive (Route 6549)	0.00	0.80	6	Urban						0.80
6549	Mokulele Drive : Kamehameha Highway (Route 83) > Kaneohe Bay Drive (Route 65)	0.00	1.16	5	Urban					1.16	
6551	Aumoku Street : Kaneohe Bay Drive (Route 65) > Koa Kahiko Street (Route 6548)	0.00	0.18	6	Urban						0.18
6553	Hui Iwa Street/Hui Ulili Street/Ahuimanu Place : Kahekili Highway (S junction) > Kahekili Highway (N junction) (Route 83)	0.00	1.39	6	Urban						1.39
6554	Waihee Road : Kamehameha Highway (Route 83)> Ahilama Road	0.00	0.43	6	Urban						0.43
7010	California Avenue : Kilani Avenue (Route 7011) > Kamehameha Highway (Route 80)	0.00	0.90	5	Urban					0.90	

Federal-Aid System: City and County of Honolulu

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7010	California Avenue : Kamehameha Highway (Route 80) > Uuku Street (Route 7041)	0.90	2.10	4	Urban				1.20		
7010	California Avenue : Uuku Street (Route 7041) > 0.20 miles northeast of Hill Drive	2.10	3.26	6	Urban						1.16
7011	Kilani Avenue : California Avenue (Route 7010) > Cane Street	0.00	1.11	5	Urban					1.11	
7011	Kilani Avenue : Cane Street > Glen Avenue (Route 7041)	1.11	1.37	6	Urban						0.26
7012	Whitmore Avenue : Kamehameha Highway (Route 80) > entrance to Naval Reservation	0.00	1.87	6	Urban						1.87
7013	Meheula Parkway : Kaapeha Street > Lanikuhana Avenue (Route 7042)	0.00	3.78	4	Urban				3.78		
7041	Glen Avenue/Royal Palm Drive/Uuku Street : Kilani Avenue (Route 7011) > California Avenue (Route 7010)	0.00	0.82	6	Urban						0.82
7042	Lanikuhana Avenue : Ahiku Street > Meheula Parkway (Route 7013)	0.00	1.23	6	Urban						1.23
7042	Lanikuhana Avenue : Meheula Parkway (Route 7013) > Meheula Parkway (Route 7013)	1.23	3.88	5	Urban					2.65	
7043	Kuahelani Avenue : Meheula Parkway (Route 7013) > Kamehameha Highway (Route 99)	0.00	0.90	5	Urban					0.90	
7043	Kuahelani Avenue : Kamehameha Highway (Route 99) > Lanikuhana Avenue (Route 7042)	0.90	2.20	6	Urban						1.30
7101	Farrington Highway : Kunia Road (Route 76) > Kamehameha Highway (Route 99)	0.00	3.00	3	Urban NHS			3.00			
7110	Farrington Highway : Fort Weaver Road (Route 76) > west access to Old Fort Weaver Road	0.00	0.60	4	Urban				0.60		
7139	Waipio Point Access Road : Farrington Highway (Route 7101) > Waipio Soccer Complex gate	0.00	0.84	6	Urban						0.84
7140	Geiger Road : Franklin D Roosevelt Avenue (Route 8940) > Fort Weaver Road (Route 76)	0.00	1.18	5	Urban					1.18	
7141	Iroquois Road : Fort Weaver Road (Route 76) > military reservation (West Loch)	0.00	1.51	5	Urban					1.51	
7142	Waipahu Street : Kunia Road (Route 76)> Kamehameha Highway (Route 99)	0.00	3.03	4	Urban				3.03		
7143	Waipahu Depot Road : Waipahu Street (Route 7142) > Farrington Highway (Route 7101)	0.00	0.20	5	Urban					0.20	

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7144	Hanakahi Street : Fort Weaver Road (Route 76) > North Road (Route 7145)	0.00	1.00	6	Urban						1.00
7145	North Road : Fort Weaver Road (Route 76) > Hanakahi Street (Route 7144)	0.00	0.73	5	Urban					0.73	
7146	Renton Road : Fort Weaver Road (Route 76) > Franklin D Roosevelt Avenue (Route 8940)	0.00	1.70	5	Urban					1.70	
7147	Old Fort Weaver Road: Farrington Highway (Route 7110) > Fort Weaver Road (Route 76)	0.00	1.27	6	Urban						1.27
7148	Papipi Road : Fort Weaver Road (Route 76) > Pohakupuna Road	0.00	0.80	6	Urban						0.80
7150	Kolowaka Drive : Fort Weaver Road (Route 76) > Kapolei Parkway (Route 8920)	0.00	0.56	5	Urban					0.56	
7160	Ka Uka Boulevard : H-2 > Kamehameha Highway (Route 99)	0.00	1.00	4	Urban				1.00		
7165	Waipio Uka Street : Ka Uka Boulevard (Route 7160) > Kamehameha Highway (Route 99)	0.00	1.43	5	Urban					1.43	
7170	Paiwa Street : Farrington Highway (Route 7101) > Lumiaina Street (Route 7175)	0.00	1.42	5	Urban					1.42	
7175	Lumiaina Street : Paiwa Street (Route 7170) > Kamehameha Highway (Route 99)	0.00	0.98	5	Urban					0.98	
7180	Kupuna Loop : south junction with Kunia Road (Route 750) > north junction with Kunia Road (Route 750)	0.00	1.93	5	Urban					1.93	
7210	Moanalua Road : Waimano Home Road (Route 7211) > Kaimakani Street	0.00	3.47	4	Urban				3.47		
7211	Waimano Home Road : Kamehameha Highway (Route 99) > Komo Mai Drive (Route 7243)	0.00	1.25	4	Urban				1.25		
7211	Waimano Home Road : Komo Mai Drive (Route 7243) > entrance to Waimano Hospital	1.25	2.23	5	Urban					0.98	
7212	Kuala Street : Waimano Home Road (Route 7211) > Kamehameha Highway	0.00	1.02	5	Urban					1.02	
7225	Hoomalu Street : Waimano Home Road (Route 7211) > Komo Mai Drive (Route 7243)	0.00	1.23	6	Urban						1.23
7226	Puu Poni Street : Kamehameha Highway (Route 99) > Hoomalu Street (Route 7225)	0.00	0.25	6	Urban						0.25
7228	Acacia Road : Kuala Street (Route 7212) > Kamehameha Highway (Route 99)	0.00	0.20	5	Urban					0.20	

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7239	Ulune Street/Halawa Valley Road : Kahuapaani Street (Route 7241) > Iwaiwa Street	0.00	0.32	5	Urban					0.32	
7241	Kahuapaani Street : Salt Lake Boulevard (Route 7311) > Ulune Street (Route 7239)	0.00	0.88	4	Urban				0.88		
7241	Kahuapaani Street : Ulune Street > Halawa Heights Road (Route 7241)	0.88	0.99	5	Urban					0.11	
7241	Halawa Heights Road : Kahuapaani Street > Camp Smith Gate #3	0.99	2.32	6	Urban						1.33
7243	Komo Mai Drive : Aumakua Street > Kaahele Street (Route 7251)	0.00	2.91	5	Urban					2.91	
7244	Kaonohi Street : Kamehameha Highway (Route 99) > Moanalua Road (Route 7210)	0.00	0.35	4	Urban				0.35		
7244	Kaonohi Street : Moanalua Road (Route 7210) > 0.10 miles north of Iho Place	0.35	1.80	5	Urban					1.45	
7245	Kaamilo Street : Moanalua Road (Route 7210) > Aiea Heights Drive (Route 7246)	0.00	1.66	6	Urban						1.66
7246	Aiea Heights Drive : Moanalua Road (Route 7210) > Ulune Street	0.00	0.34	5	Urban					0.34	
7246	Aiea Heights Drive : Ulune Street > Keaiwa State Park	0.34	2.66	6	Urban						2.32
7247	Hoolaulea Street : Waimano Home Road (S junction) (Route 7211) > Waimano Home Road (N junction) (Route 7211)	0.00	2.08	6	Urban						2.08
7248	Ulune Street : Aiea Heights Drive (Route 7246) > Kahuapaani Street (Route 7241)	0.00	0.83	5	Urban					0.83	
7249	Lehua Street : Kamehameha Highway (Route 99) > Lehua Elementary School Access Road	0.00	0.32	5	Urban					0.32	
7250	Kaahumanu Street : Kamehameha Highway (Route 99) > Moanalua Road (Route 7210)	0.00	0.26	4	Urban				0.26		
7250	Kaahumanu Street : Moanalua Road (Route 7210) > Komo Mai Drive (Route 7243)	0.26	1.02	5	Urban					0.76	
7251	Kaahele Street : Moanalua Road (Route 7210) > 0.2 miles past Hiliu Place	0.00	1.85	6	Urban						1.85
7260	Honomanu Street : Kamehameha Highway (Route 99) > Moanalua Road (Route 7210)	0.00	0.20	5	Urban					0.20	
7261	Moanalua Loop : Moanalua Road (Route 7210) > Kaonohi Street (Route 7244)	0.00	0.43	6	Urban						0.43

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								PRINCIPAL	MINOR	MAJOR	MINOR
7262	Kanuku Street : Hekaha Street (Route 7263) > Kamehameha Highway (Route 99)	0.00	0.40	6	Urban						0.40
7263	Hekaha Street : Kamehameha Highway (Route 99) > Moanalua Road (Route 7210)	0.00	0.44	6	Urban						0.44
7310	Puuloa Road : Kamehameha Highway/Nimitz Highway (Route 92) > southwest end of Puuloa overpass	0.00	1.03	3	Urban NHS			1.03			
7311	Salt Lake Boulevard : Puuloa Road (Route 7310) > Kamehameha Highway (Route 99)	0.00	3.43	4	Urban				3.43		
7341	Kikowaena Street/Ahua Street : Moanalua Freeway (Route 201) > Nimitz Highway (Route 92)	0.00	0.79	5	Urban					0.79	
7342	Pukoloa Street : Puuloa Road (Route 7310) > Ahua Street (Route 7341)	0.00	0.26	5	Urban					0.26	
7343	Arizona Road/Camp Catlin Road : Salt Lake Boulevard (Route 7311) > Nimitz Highway (Route 92)	0.00	0.53	5	Urban					0.53	
7344	Ala Aolani Street : Moanalua Freeway (Route 210) > Ala Noe Place	0.00	1.46	6	Urban						1.46
7345	Jarret White Road : Moanalua Freeway (southwest Puuloa Road overpass) (Route 210) > Tripler Hospital gate	0.00	0.55	5	Urban NHS					0.55	
7346	Ala Mahamoe Street : Jarret White Road (Route 7345) > Kaua Street	0.00	1.50	6	Urban						1.50
7346	Kaua Street : Ala Mahamoe Street > Middle Street (Route 7414)	1.50	2.11	5	Urban					0.61	
7347	Ala Lilikoi Street : Salt Lake Boulevard (Route 7311) > Likini Street (Route 7348)	0.00	0.34	6	Urban						0.34
7348	Pakini Street/Likini Street : Salt Lake Boulevard (Route 7311) > Ala Napunani Street (Route 7349)	0.00	2.36	6	Urban						2.36
7349	Ala Napunani Street : Salt Lake Boulevard (Route 7311) > Ala Aolani Street (Route 7344)	0.00	1.32	5	Urban					1.32	
7350	Bougainville Drive : Radford Drive (Route 7351) > Salt Lake Boulevard (Route 7311)	0.00	0.59	5	Urban					0.59	
7351	Radford Drive : Kamehameha Highway (Route 99) > Bougainville Drive (Route 7350)	0.00	0.23	5	Urban					0.23	
7401	Kamehameha Highway/Dillingham Boulevard : Middle Street (Route 7415) > King Street (Route 7402)	0.00	1.95	4	Urban				1.95		
7402	King Street : Kalihi Street (Route 63) > Harding Avenue (Route 7842)	0.00	5.20	3	Urban NHS			5.20			

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7410	King Street : Middle Street (Route 7415) > Kalihi Street (Route 63)	0.00	0.72	4	Urban				0.72		
7411	Houghtailing Street/Waiakamilo Road : School Street (Route 7414) > Nimitz Highway (Route 92)	0.00	1.13	4	Urban				1.13		
7412	Liliha Street : Wyllie Street (Route 7446) > H-1 overpass	0.00	0.98	5	Urban					0.98	
7413	Liliha Street : King Street (Route 7402) > H-1 overpass	0.00	0.35	4	Urban				0.35		
7414	School Street : Lusitana Street (Route 7521) > Notley Street (Route 74140)	0.00	2.69	4	Urban				2.69		
7414	Middle Street : Notley Street (Route 74140) > Kaua Street (Route 7346)	2.69	3.10	4	Urban NHS				0.41		
7415	Middle Street : Kaua Street (Route 7346) > Kamehameha Highway (Route 7401)	0.00	0.51	4	Urban				0.51		
7420	Palama Street : King Street (Route 7402) > Vineyard Boulevard (Route 98)	0.00	0.20	6	Urban						0.20
7425	Iwilei Road/Pacific Street : King Street (Route 7402) > Nimitz Highway (Route 92)	0.00	0.66	6	Urban						0.66
7430	Kalihi Street/Auiki Street : Nimitz Highway (Route 92) > Sand Island Access Road (Route 64)	0.00	0.66	5	Urban					0.66	
7441	Kalihi Street : Likelike Highway (Route 63) > Waialele Street	0.00	0.76	5	Urban					0.76	
7441	Kalihi Street : Waialele Street > Kalaepaa Drive	0.76	1.74	6	Urban						0.98
7442	Kamehameha IV Road : School Street (Route 7414) > Likelike Highway (Route 63)	0.00	0.70	5	Urban					0.70	
7443	Nalanieha Street : Likelike Highway (Route 63) > Kalihi Street (Route 7441)	0.00	0.15	6	Urban						0.15
7444	Kealia Drive/Hillcrest Street/Houghtailing Street : Makanani Drive (Route 7445) > School Street (Route 7414)	0.00	0.60	6	Urban						0.60
7445	Judd Street/Iholena Street/Lolena Street/Makanani Drive : Nuuanu Avenue (Route 7522) > Kealia Drive (Route 7444)	0.00	1.34	6	Urban						1.34
7446	Wyllie Street/Alewa Drive : Liliha Street (Route 7412)> Hoomaikai Street	0.00	2.04	6	Urban						2.04
7447	Lanakila Avenue/Judd Street : School Street (Route 7414) > Iholena Street (Route 7445)	0.00	0.40	5	Urban					0.40	

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7448	Puuhale Road : Nimitz Highway (Route 92) > Dillingham Boulevard (Route 7401)	0.00	0.25	5	Urban					0.25	
7450	Mokauea Street : Nimitz Highway (Route 92) > King Street (Route 7410)	0.00	0.58	6	Urban						0.58
7501	Atkinson Drive : Ala Moana Boulevard (Route 92) > Kapiolani Boulevard (Route 7503)	0.00	0.30	4	Urban				0.30		
7502	Beretania Street : University Avenue (Route 7615) > King Street (Route 7402)	0.00	3.31	3	Urban NHS			3.31			
7503	Kapiolani Boulevard : South Street (Route 7510) > Waialae Avenue (Route 7801)	0.00	3.12	3	Urban NHS			3.12			
7504	Alakea Street : Nimitz Highway (Route 92) > Beretania Street (Route 7502)	0.00	0.40	3	Urban NHS			0.40			
7504	Queen Emma Street/Kukui Street : Beretania Street (Route 7502) > Pali Highway (Route 7505)	0.40	0.60	4	Urban				0.20		
7505	Pali Highway/Bishop Street : Vineyard Boulevard (Route 98) > Nimitz Highway (Route 92)	0.00	0.62	3	Urban NHS			0.62			
7510	South Street/Alapai Street : Ala Moana Boulevard (Route 92) > Beretania Street (Route 7502)	0.00	0.78	4	Urban				0.78		
7510	Alapai Street/Lusitana Street : Beretania Street (Route 7502) > Vineyard Boulevard (Route 98)	0.78	1.08	5	Urban					0.30	
7511	Ward Avenue : Ala Moana Boulevard (Route 92) > H-1	0.00	0.96	3	Urban NHS			0.96			
7511	Ward Avenue : H-1 > Prospect Street (Route 7518)	0.96	1.15	4	Urban				0.19		
7512	Pensacola Street : Nehoa Street (Route 7518) > Luanalilo Street (Route 7526)	0.00	0.50	5	Urban					0.50	
7512	Pensacola Street/Waimanu Street : Lunalilo Street (Route 7526) > Piikoi Street (Route 7513)	0.50	1.40	3	Urban NHS			0.90			
7513	Piikoi Street : Ala Moana Boulevard (Route 92) > Lunalilo Street (Route 7526)	0.00	0.94	4	Urban				0.94		
7513	Piikoi Street : Lunalilo Street (Route 7526) > Pensacola Street (Route 7512)	0.94	1.37	6	Urban						0.43
7514	Keeaumoku Street : Kapiolani Boulevard (Route 7503) > Wilder Avenue (Route 7525)	0.00	0.90	4	Urban				0.90		
7515	Queen Street : Kamakee Street (Route 7552) > Nimitz Highway (Route 92)	0.00	1.27	4	Urban				1.27		

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7516	Punchbowl Street : H-1 > King Street (Route 7402)	0.00	0.57	3	Urban NHS			0.57			
7516	Punchbowl Street : King Street (Route 7402) > Ala Moana Boulevard (Route 92)	0.57	0.96	4	Urban				0.39		
7517	Auwaiolimu Street : Lusitana Street (Route 7521) > Nehoa Street (Route 7518)	0.00	0.94	4	Urban				0.94		
7518	Iolani Avenue/Prospect Street/Nehoa Street : Lusitana Street (Route 7521) > Punahou Street (Route 7614)	0.00	1.81	5	Urban					1.81	
7519	Kinau Street : Alapai Street (Route 7510) > Keeaumoku Street (Route 7514)	0.00	0.90	4	Urban				0.90		
7520	Kukui Street : Nuuanu Avenue (Route 7522) > Pali Highway (Route 7505)	0.00	0.12	4	Urban				0.12		
7521	Lusitana Street : School Street (Route 7414) > Auwaiolimu Street (Route 7517)	0.00	0.42	6	Urban						0.42
7521	Lusitana Street/Pauoa Road : Auwaiolimu Street (Route 7517) > Nuuanu Avenue (Route 7522)	0.42	0.83	4	Urban				0.41		
7522	Nuuanu Avenue : Wyllie Street (Route 7524) > Nimitz Highway (Route 92)	0.00	1.70	4	Urban				1.70		
7523	Queen Emma Street : Kukui Street (Route 7504) > School Street (Route 7414)	0.00	0.32	4	Urban				0.32		
7524	Wyllie Street : Liliha Street (Route 7412) > Nuuanu Avenue (Route 7522)	0.00	0.27	5	Urban					0.27	
7525	Wilder Avenue : Dole Street (Route 7611) > Pensacola Street (Route 7512)	0.00	1.27	4	Urban				1.27		
7526	Lunalilo Street : H-1 off ramp > Ward Avenue (Route 7511)	0.00	0.62	3	Urban NHS			0.62			
7527	Bethel Street : Nimitz Highway (Route 92) > Beretania Street (Route 7502)	0.00	0.32	4	Urban				0.32		
7528	Pohukaina Street/Kamani Street : Punchbowl Street (Route 7516) > Auahi Street	0.00	0.60	6	Urban						0.60
7528	Auahi Street/Queen Street : Kamani Street > Ala Moana Boulevard (Route 92)	0.60	1.20	5	Urban					0.60	
7530	Sheridan Street : Rycroft Street > Kapiolani Boulevard (Route 7503)	0.00	0.27	6	Urban						0.27
7541	Kaheka Street : Kapiolani Boulevard (Route 7503) > King Street (Route 7402)	0.00	0.42	5	Urban					0.42	

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7542	Keola Street/Kuakini Street : Hala Drive > Pali Highway (Route 61)	0.00	1.04	5	Urban					1.04	
7543	Hotel Street : Richards Street (Route 7544) > King Street (Route 7402) [bus only]	0.00	0.57	6	Urban						0.57
7544	Richards Street : Beretania Street (Route 7502) > King Street (Route 7042)	0.00	0.23	6	Urban						0.23
7545	Pacific Heights Road : Pauoa Road (Route 7521) > end of route	0.00	2.20	6	Urban						2.20
7546	Booth Road/Kekuanoni Street/Kapulei Street/Pauoa Road : Pacific Heights Road (Route 7545) > Lusitana Street (Route 7521)	0.00	1.90	6	Urban						1.90
7547	Hookui Street/Puowaina Drive/Tantalus Drive/Makiki Heights Drive/Mott Smith Drive : Auwaiolimu Street (Route 7517) > Nehoa Street (Route 7518)	0.00	2.06	6	Urban						2.06
7548	Cooke Street : Ala Moana Boulevard (Route 92) > King Street (Route 7402)	0.00	0.66	6	Urban						0.66
7549	Young Street : Pensacola Street (Route 7512) > Isenberg Street (Route 7643)	0.00	1.40	5	Urban					1.40	
7550	Keeaumoku Street : Wilder Avenue (Route 7525) > Nehoa Street (Route 7518)	0.00	0.30	6	Urban						0.30
7552	Kamakee Street : Ala Moana Boulevard (Route 92) > Kapiolani Boulevard (Route 7503)	0.00	0.34	5	Urban					0.34	
7553	Booth Road : Kekuanoni Street (Route 7546) > 2000 feet past Kekuanoni Street	0.00	0.38	6	Urban						0.38
7601	Old Waialae Road/King Street : Kapiolani Boulevard (Route 7503) > end of divided roadway	0.00	0.41	3	Urban NHS			0.41			
7610	Date Street : University Avenue (Route 7615) > Kapahulu Avenue (Route 7810)	0.00	0.96	4	Urban				0.96		
7611	St Louis Drive/Dole Street : Waialae Avenue (Route 7801) > Wilder Avenue (Route 7525)	0.00	1.34	4	Urban				1.34		
7612	Kalakaua Avenue : Beretania Street (Route 7502) > Paki Avenue (Route 7713)	0.00	3.08	4	Urban				3.08		
7613	McCully Street : Kalakaua Avenue (Route 7612) > Metcalf Street (Route 7613)	0.00	0.88	4	Urban				0.88		
7613	Metcalf Street : McCully Street > University Avenue (Route 7646)	0.88	1.37	5	Urban					0.49	
7614	Philip Street/Punahou Street : Kalakaua Avenue (Route 7612) > King Street (Route 7402)	0.00	0.17	5	Urban					0.17	

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7614	Punahou Street : King Street (Route 7402) > Wilder Avenue (Route 7525)	0.17	0.64	3	Urban NHS			0.47			
7614	Punahou Street : Wilder Avenue (Route 7525) > Nehoa Street (Route 7518)	0.64	0.86	4	Urban				0.22		
7615	University Avenue : Kapiolani Boulevard (Route 7503) > King Street (Route 7402)	0.00	0.40	4	Urban				0.40		
7615	University Avenue : King Street (Route 7402) > Metcalf Street (Route 7613)	0.40	0.90	3	Urban NHS			0.50			
7641	Date Street/Citron Street/Kuikahi Street/Philip Street : University Avenue (Route 7615) > Punahou Street (Route 7614)	0.00	0.91	5	Urban					0.91	
7642	East Manoa Road : Manoa Road (Route 7645) > Alani Drive (Route 7642)	0.00	1.81	5	Urban					1.81	
7642	Alani Drive : East Manoa Road (Route 7642) > Woodlawn Drive (N Junction)	1.81	2.06	6	Urban						0.25
7643	Isenberg Street : Kapiolani Boulevard (Route 7503) > Beretania Street (Route 7502)	0.00	0.52	5	Urban					0.52	
7644	Lowrey Avenue : Manoa Road (Route 7645) > East Manoa Road (Route 7642)	0.00	0.39	6	Urban						0.39
7645	Manoa Road : Nehoa Street (Route 7518) > Waakaua Street	0.00	2.45	5	Urban					2.45	
7646	University Avenue : Metcalf Street (Route 7613) > Oahu Avenue	0.00	0.65	4	Urban				0.65		
7646	Oahu Avenue : University Avenue (Route 7646) > Manoa Road (route 7645)	0.65	1.29	5	Urban					0.64	
7647	St Louis Drive/Bertram Street/St Louis Drive/Bertram Street/St Louis Drive/Noah Street/St Louis Drive/Alencastre Street : Dole Street (Route 7611) > St Louis Drive	0.00	2.11	5	Urban					2.11	
7648	Alexander Street : Wilder Avenue (Route 7525) > H-1	0.00	0.16	6	Urban						0.16
7649	Dole Street : Punahou Street (Route 7614) > Metcalf Street (Route 7613)	0.00	0.38	6	Urban					0.38	
7710	Ala Wai Boulevard : Kapahulu Avenue (Route 7810) > Kalakaua Avenue (Route 7612)	0.00	1.57	4	Urban				1.57		
7711	Kuhio Avenue : Kalakaua Avenue (Route 7612) > Kapahulu Avenue (Route 7810)	0.00	1.17	5	Urban					1.17	
7712	Monsarrat Avenue : Kalakaua Avenue (Route 7612) > Paki Avenue (Route 7713)	0.00	0.47	5	Urban					0.47	

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7712	Monsarrat Avenue : Paki Avenue (Route 7713) > Trousseau Street	0.47	0.99	5	Urban				0.52		
7713	Paki Avenue : Diamond Head Road (Route 7811) > Monsarrat Avenue (Route 7712)	0.00	0.66	5	Urban					0.66	
7713	Paki Avenue : Monsarrat Avenue (Route 7712) > Kapahulu Avenue (Route 7610)	0.66	0.95	5	Urban				0.29		
7714	Niu Street : Ala Wai Boulevard (Route 7710) > Kalakaua Avenue (Route 7612)	0.00	0.10	6	Urban						0.10
7715	Pau Street : Kalakaua Avenue (Route 7612) > Ala Wai Boulevard (Route 7710)	0.00	0.11	6	Urban						0.11
7720	Saratoga Road : Kalia Road (Route 7743) > Kalakaua Avenue (Route 7612)	0.00	0.24	6	Urban						0.24
7725	Kalaimoku Street : Kalakaua Avenue (Route 7612) > Ala Wai Boulevard (Route 7710)	0.00	0.20	6	Urban						0.20
7741	Kaiulani Street/Kanekapolei Street : Kalakaua Avenue (Route 7612) > Ala Wai Boulevard (Route 7710)	0.00	0.37	6	Urban						0.37
7743	Kalia Road : Ala Moana Boulevard (Route 92) > Lewers Street (Route 7744)	0.00	0.56	5	Urban					0.56	
7744	Lewers Street : Kalia Road (Route 7743) > Ala Wai Boulevard (Route 7710)	0.00	0.42	6	Urban						0.42
7801	Waialae Avenue : Kapahulu Avenue (Route 7810) > Palolo Avenue (Route 7849)	0.00	0.42	3	Urban NHS			0.42			
7801	Waialae Avenue : Palolo Avenue (Route 7849) > Kilauea Avenue (Route 7812)	0.42	2.02	4	Urban				1.60		
7810	Kapahulu Avenue : Kalakaua Avenue (Route 7612) > Waialae Avenue (Route 7801)	0.00	1.56	4	Urban				1.56		
7811	Diamond Head Road : Trousseau Street > Paki Avenue (7713)	0.00	2.73	4	Urban				2.73		
7812	Kilauea Avenue : Waialae Avenue (Route 7801) > 6th Avenue (Route 7852)	0.00	2.24	4	Urban				2.24		
7813	6th Avenue : H-1 > Waialae Avenue (Route 7801)	0.00	0.18	4	Urban				0.18		
7814	18th Avenue : Harding Avenue (Route 7842) > Diamond Head Road (Route 7811)	0.00	0.82	6	Urban						0.82
7841	Campbell Avenue : Monsarrat Avenue (Route 7712) > Kapahulu Avenue (Route 7810)	0.00	0.62	6	Urban						0.62

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7842	Harding Avenue : 21st Avenue (Route 7856) > Kapiolani Boulevard (Route 7503)	0.00	1.78	5	Urban					1.78	
7843	Hunakai Street : Kilauea Avenue (Route 7862) > Kahala Avenue (Route 7844)	0.00	1.50	6	Urban						1.50
7844	Kahala Avenue : Diamond Head Road (Route 7811) > Kealaolu Avenue (Route 7863)	0.00	1.50	6	Urban						1.50
7845	Kaimuki Avenue : Kapiolani Boulevard (Route 7503) > 6th Avenue (Route 7852)	0.00	0.68	5	Urban					0.68	
7846	Koko Head Avenue : Waialae Avenue (Route 7801) > Pahoa Avenue (Route 7848)	0.00	0.26	4	Urban				0.26		
7847	Mooheau Avenue : Kapahulu Avenue (Route 7810) > 6th Avenue (Route 7852)	0.00	0.27	6	Urban						0.27
7848	Pahoa Road : Koko Head Avenue (Route 7846) > Kilauea Avenue (Route 7812)	0.00	1.00	5	Urban					1.00	
7849	Palolo Avenue : 10th Avenue (Route 7853) > Waialae Avenue (Route 7801)	0.00	1.86	5	Urban					1.86	
7850	5th Avenue : Waialae Avenue (Route 7801) > Harding Avenue (Route 7842)	0.00	0.20	5	Urban					0.20	
7851	6th Avenue : Waialae Avenue (Route 7801) > Palolo Avenue (Route 7849)	0.00	0.17	5	Urban					0.17	
7852	6th Avenue : H-1 > Alohea Avenue (Route 7864)	0.00	0.50	5	Urban					0.50	
7853	10th Avenue : Palolo Avenue (Route 7848) > Waialae Avenue (Route 7801)	0.00	1.85	6	Urban						1.85
7854	10th Avenue : Kilauea Avenue (Route 7812) > Waialae Avenue (Route 7801)	0.00	0.62	6	Urban						0.62
7855	11th Avenue : Waialae Avenue (Route 7801) > H-1	0.00	0.18	4	Urban				0.18		
7856	21st Avenue : Harding Avenue (Route 7842) > Waialae Avenue (Route 7801)	0.00	0.20	6	Urban						0.20
7857	Sierra Drive : Waialae Avenue (Route 7801) > Maunalani Circle	0.00	2.30	6	Urban						2.30
7858	Lurline Drive/Monterey Drive/Paula Drive/Koko Drive/16th Avenue : Maunalani Circle > Kilauea Avenue (Route 7812)	0.00	2.82	6	Urban						2.82
7859	Elepaio Street : Kilauea Avenue (Route 7812) > Kahala Avenue (Route 7844)	0.00	0.57	6	Urban						0.57

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ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS CODE	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
7862	Kilauea Avenue : Akiaki Place > Waialae Avenue (Route 7801)	0.00	0.69	6	Urban						0.69
7863	Kealaolu Avenue : Waialae Avenue (Route 7801) > Kahala Avenue (Route 7844)	0.00	0.70	5	Urban					0.70	
7864	Alohea Avenue : 6th Avenue (Route 7852) > Makapuu Avenue (Route 7865)	0.00	0.61	5	Urban					0.61	
7865	Makapuu Avenue : Diamond Head Road (Route 7811) > Kilauea Avenue (Route 7812)	0.00	0.32	5	Urban					0.32	
7910	Lunalilo Home Road : Kalaniana'ole Highway (Route 72) > Hawaii Kai Drive (Route 7911)	0.00	1.71	4	Urban				1.71		
7911	Hawaii Kai Drive : Kalaniana'ole Highway (Route 72) > Wailua Street (Route 7951)	0.00	1.70	5	Urban				1.70		
7911	Hawaii Kai Drive : Wailua Street (Route 7951) > Lunalilo Home Road (Route 7910)	1.70	3.34	5	Urban					1.64	
7911	Hawaii Kai Drive : Lunalilo Home Road (Route 7910) > Kealahou Street (Route 7949)	3.34	4.54	4	Urban				1.20		
7941	Aina Koa Avenue/Halekoa Drive : Kalaniana'ole Highway (Route 72) > Alaeloa Street	0.00	1.70	6	Urban						1.70
7942	West Hind Drive/East Hind Drive : Kalaniana'ole Highway (Route 72) > Kalaniana'ole Highway (Route 72)	0.00	1.13	6	Urban						1.13
7943	Nohu Street/Hao Street/Ani Street/Hind Uka Drive : West Hind Drive (Route 7942) > East Hind Drive (Route 7942)	0.00	1.44	6	Urban						1.44
7944	Halemaumau Street : Kalaniana'ole Highway (W junction) (Route 72) > Kalaniana'ole Highway (E Junction) (Route 72)	0.00	0.83	6	Urban						0.83
7945	Elelupe Road/Kuliouou Road : Kalaniana'ole Highway (Route 72) > Kalaniana'ole Highway (Route 72)	0.00	0.85	6	Urban						0.85
7947	Lunalilo Home Road/Nawiliwili Street : Kalaniana'ole Highway (Route 72) > Kalaniana'ole Highway (Route 72)	0.00	0.86	6	Urban						0.86
7948	Laukahi Street : Kalaniana'ole Highway (Route 72) > Kihi Street	0.00	1.32	6	Urban						1.32
7949	Kealahou Street : Kalaniana'ole Highway (Route 72) > Hawaii Kai Drive (Route 7911)	0.00	0.70	4	Urban				0.70		
7949	Kealahou Street : Hawaii Kai Drive (Route 7911) > Ipuai Street	0.70	1.60	5	Urban					0.90	
7950	Keahole Street : Kalaniana'ole Highway (Route 72) > Hawaii Kai Drive (Route 7911)	0.00	0.69	4	Urban				0.69		

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								PRINCIPAL	MINOR	MAJOR	MINOR
7951	Wailua Street : Hawaii Kai Drive (Route 7911) > Lunalilo Home Road (Route 7910)	0.00	0.37	4	Urban				0.37		
7952	Hahaione Street : Hawaii Kai Drive (Route 7911) > Ainapo Street (Route 7954)	0.00	0.83	6	Urban						0.83
7953	Pepeekeo Street : Hawaii Kai Drive (Route 7911) > Hahaione Street (Route 7952)	0.00	0.42	6	Urban						0.42
7954	Ainapo Street : Pepeekeo Street (Route 7953) > Hahaione Street (Route 7952)	0.00	0.63	6	Urban						0.63
8300	Kamehameha Highway : Weed Junction > JP Leong Highway (Route 83)	0.00	2.00	4	Urban				2.00		
8541	Old Goverment Road/Plantation Road : Farrington Highway (Route 93) > Waianae Valley Road (Route 8542)	0.00	0.70	5	Urban					0.70	
8542	Waianae Valley Road : Farrington Highway (Route 93) > Haleahi Road	0.00	2.52	5	Urban					2.52	
8543	Lualualei Homestead Road : Farrington Highway (Route 93) > Halona Road	0.00	1.10	5	Urban					1.10	
8741	Hakimo Road : Farrington Highway (Route 93) > Paakea Road (Route 8755)	0.00	1.47	5	Urban					1.47	
8743	Haleakala Avenue : Farrington Highway (Route 93) > Nanakuli Avenue (Route 8744)	0.00	1.38	5	Urban					1.38	
8744	Nanakuli Avenue : Farrington Highway (Route 93) > Haleakala Avenue (Route 8743)	0.00	1.34	5	Urban					1.34	
8750	Kaukama Road : Farrington Highway (Route 93) > Pakeke Street	0.00	0.82	6	Urban						0.82
8755	Mailiili Road/Paakea Road : Farrington Highway (Route 93) > Hakimo Road (Route 8741)	0.00	2.70	6	Urban						2.70
8760	Makaha Valley Road : Farrington Highway (Route 93) > Lahaina Street	0.00	0.10	5	Urban					0.10	
8810	Makakilo Drive : H-1 (Makakilo Interchange) > H-1 (Kualakai Parkway interchange)	0.00	3.37	4	Urban				3.37		
8815	Palailai Street/Nohohale Street : Makakilo Drive (SE junction) > Makakilo Dr (NW junction) (Route 8810)	0.00	1.21	6	Urban						1.21
8905	Koio Drive : Aliinui Drive (Route 8910) > Farrington Highway (Route 93)	0.00	0.49	6	Urban						0.49
8910	Aliinui Drive : Farrington Highway (Route 93) > Koio Drive (Route 8905)	0.00	1.69	5	Urban					1.69	

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8915	Kamokila Boulevard : Farrington Highway (Route 9107) > Roosevelt Avenue (Route 8940)	0.00	0.95	4	Urban				0.95		
8918	Wakea Street : Kapolei Parkway (Route 8920) > H-1	0.00	0.60	6	Urban						0.60
8920	Kapolei Parkway : Aliinui Drive (Route 8910) > Papipi Road (Route 7148)	0.00	7.77	4	Urban				7.77		
8925	Kealanani Avenue : Farrington Highway (Route 9107) > Kamaaha Loop	0.00	0.58	5	Urban					0.58	
8930	Kualakai Parkway : H-1 > Kapolei Parkway (Route 8920)	0.00	2.47	3	Urban NHS			2.47			
8930	Kualakai Parkway : Kapolei Parkway (Route 8920) > Roosevelt Avenue (Route 8940)	2.47	2.87	4	Urban				0.40		
8940	Franklin D Roosevelt Avenue : Geiger Road (Route 7140) > Kamokila Boulevard (Route 8915)	0.00	3.30	6	Urban						3.30
8945	Enterprise Avenue : Franklin D Roosevelt Avenue (Route 8940) > Midway Avenue	0.00	0.98	6	Urban						0.98
8955	Coral Sea Road : Franklin D Roosevelt Avenue (Route 8940) > Barbers Point Air Station Gate	0.00	2.69	6	Urban						2.69
9107	Farrington Highway : west access to Old Fort Weaver Road > Kamokila Boulevard (Route 8915)	0.00	4.07	6	Urban				4.07		
9262	Waialua Beach Road : Weed Junction > Crozier Loop	0.00	2.53	5	Urban					2.53	
9263	Haleiwa Road : Kamehameha Highway (Route 8300) > Waialua Beach Road (Route 9262)	0.00	1.60	5	Urban					1.60	
9265	Goodale Avenue : Waialua Beach Road (Route 9262) > Farrington Highway (Route 930)	0.00	0.86	5	Urban					0.86	
9270	Puuiki Street : Farrington Highway (Route 930) > Kealohanui Street	0.00	0.50	6	Urban						0.50
9274	Paalaa Road : Kamehameha Highway (Route 8300) > Haleiwa Road (Route 9263)	0.00	0.77	6	Urban						0.77
9275	Kuoha Street : Waialua Beach Road (Route 9262) > Kukea Circle	0.00	0.29	6	Urban						0.29
9276	Komo Street : Waialua Beach Road (Route 9262) > Kauai Street	0.00	0.19	6	Urban						0.19
9280	Pupukea Road : Kamehameha Highway (Route 83) > Kanalani Place	0.00	2.30	6	Urban						2.30

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9285	Pualalea Street : Kamehameha Highway (Route 83) > end of road	0.00	0.31	5	Urban					0.31	
H-1	H-1 : Farrington Highway (Route 93) > Ainakoa Avenue (Route 7941)	0.00	27.16	1	Urban NHS	27.16					
H-2	H-2 : beginning of connection with H-1 > Wilikina Drive (Route 99)	0.00	8.33	1	Urban NHS	8.33					
H-201	H-201 : on ramp from H-1 (Halawa Interchange) > at H-1 tunnel under King Street and Middle Street (Kahauki Interchange)	0.00	4.09	1	Urban NHS	4.09					
H-3	H-3 : H-1 > Kaneohe Marine Corps Base Hawaii main gate	0.00	15.32	1	Urban NHS	15.32					

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						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
	MAUI										
30	High Street/Honoapiilani Highway: Main Street (Route 32) > Kuihelani Highway (Route 380)	0.00	4.88	3	Urban NHS			4.88			
30	Honoapiilani Highway : Kuihelani Highway (Route 380) > proposed Lahaina Bypass (Route 3000)	4.88	17.65	3	Rural NHS			12.77			
30	Honoapiilani Highway : proposed Lahaina Bypass (Route 3000) > Front Street (Route 3010)	17.65	19.69	3	Urban NHS			2.04			
30	Honoapiilani Highway : Front Street (Route 3010) > Napili Hau Street (Route 3090)	19.69	29.03	4	Urban				9.34		
30	Honoapiilani Highway : Napili Hau Street (Route 3090) > Plantation Estates Drive	29.03	31.14	5	Urban					2.11	
30	Honoapiilani Highway/ Kahekili Highway : Plantation Estates Drive > end of state route (0.35 mi east of Papanahoa Stream Bridge (bridge #009000300304184)	31.14	41.67	5	Rural					10.53	
31	Piilani Highway : Mokulele Highway (Route 311) > Approx. 0.6 miles south of Wailea Ike Drive	0.00	7.75	3	Urban NHS			7.75			
32	West Main Street/Kaahumanu Avenue : High Street (Route 30) > Hobron Avenue (Route 32A)	0.00	2.85	3	Urban NHS			2.85			
36	Hana Highway : Kaahumanu Avenue (Route 32)> Haleakala Highway (Route 37)	0.00	2.92	3	Urban NHS			2.92			
36	Hana Highway : Haleakala Highway (Route 37) > Kaupakalua Road (Route 365)	2.92	16.23	4	Urban				13.31		
37	Haleakala Highway/Kula Highway: Hana Highway (Route 36) > Kalialinu Bridge (#009000370301383)	0.00	9.40	3	Urban NHS			9.40			
37	Kula Highway : Kalialinu Bridge (#009000370301383) > Kekaulike Avenue (Route 377)	9.40	14.25	4	Urban				4.85		
37	Kula Highway : Kekaulike Avenue (Route 377) > Old Makena Road	14.25	21.39	5	Rural					7.14	
303	Puukolii Road : Honoapiilani Highway (Route 30) > Lahaina Bypass (Route 3000)	0.00	0.80	5	Urban					0.80	
310	North Kihei Road : Honoapiilani Highway (Route 30) > Mokulele Highway (Route 311)	0.00	3.60	4	Urban				3.60		
311	Puunene Avenue/Mokulele Highway : Kuihelani Highway (Route 380) > Piilani Highway (Route 31)	0.00	6.41	3	Urban NHS			6.41			
340	Kahekili Highway : Waiehu Beach Road (Route 3400)> Waihee Bridge (#009003400500233)	0.00	2.31	5	Urban					2.31	
340	Kahekili Highway : Waihee Bridge (#009003400500233) > Camp Maluhia entrance	2.31	4.29	5	Rural					1.98	
340	Kahekili Highway : Camp Maluhia entrance > 0.35 miles east of Papanahoa Bridge (#009000300304184)	4.29	13.77	6	Rural						9.48
360	Hana Highway : Kaupakalua Road (Route 365) > Honokala Road	0.00	2.63	5	Urban					2.63	
360	Hana Highway/Keawa Place: Honokala Road > wharf at Hana Bay	2.63	34.93	5	Rural					32.30	
365	Makawao Avenue : Old Haleakala Highway (Route 367) > Kokomo Road (Route 366)	0.00	3.20	5	Urban					3.20	
365	Kaupakalua Road : Kokomo Road (Route 366) > Hana Highway (Route 36)	3.20	8.56	6	Urban						5.36

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366	Haiku Road / Kokomo Road: Hana Highway (Route 36) > Makawao Avenue (Route 365)	0.00	5.56	5	Urban					5.56	
367	Old Haleakala Highway : Haleakala Highway (Route 37) > Kula Highway (Route 37)	0.00	1.86	5	Urban					1.86	
371	Haliimaile Road : Haleakala Highway (Route 37) > Kailua Road	0.00	0.70	6	Rural						0.70
371	Haliimaile Road : Kailua Road > Baldwin Avenue (Route 390)	0.70	2.62	6	Urban						1.92
374	Kihei-Upcounty Maui Highway : Piilani Highway (Route 31) > Kihei Urban Boundary	0.00	2.60	4	Urban				2.60		
374	Kihei-Upcounty Maui Highway : Kihei Urban Boundary > Haleakala Highway (Route 37)/Haliimaile Road (Route 371)	2.60	9.80	4	Rural				7.20		
377	Haleakala Highway/Kekaulike Avenue : Kula Highway (Route 37) > Kula Highway (Route 37)	0.00	9.17	5	Urban					9.17	
378	Haleakala Crater Road : Haleakala Highway (Route 377) > Haleakala National Park boundary (at the cattle guard near the "End State Hwy Sign")	0.00	10.15	5	Rural					10.15	
380	Dairy Road : Haleakala Highway (Route 36A) > Puunene Avenue (Route 3500)	0.00	0.96	5	Urban					0.96	
380	Kuihelani Highway : Puunene Avenue (Route 3500) > Honoapiilani Highway (Route 30)	0.96	6.18	3	Urban NHS			5.22			
390	Baldwin Avenue : Hana Highway (Route 36) > end of urban boundary	0.00	2.00	5	Urban					2.00	
390	Baldwin Avenue : end of urban boundary > Haliimaile Road (Route 371)	2.00	5.00	5	Rural					3.00	
390	Baldwin Avenue : Haliimaile Road (Route 371) > Makawao Avenue (Route 365)	5.00	6.94	5	Urban					1.94	
3000	Lahaina Bypass : Honoapiilani Highway S junction (Route 30) > Kahomo Stream [urban/rural boundary]	0.00	4.19	3	Urban NHS			4.19			
3000	Lahaina Bypass : Kahomo Stream [urban/rural boundary] > Honoapiilani Highway N junction (Route 30)	4.19	8.95	3	Rural NHS			4.76			
3010	Front Street : Honoapiilani Highway N Junction (Route 30) > Shaw Street (Route 3050)	0.00	1.97	6	Urban					1.97	
3010	Front Street : Shaw Street (Route 3050) > Honoapiilani Highway S Junction (Route 30)	1.97	2.67	5	Urban						0.70
3015	Wainee Street : Kenui Street (Route 3070) > Lahainaluna Road (Route 3040)	0.00	0.46	6	Urban						0.46
3020	Papalaua Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.23	5	Urban					0.23	
3025	Kaniau Road/Ainakea Street : Honoapiilani Highway (Route 30) > Kapunakea Street (Route 3060)	0.00	0.92	6	Urban						0.92
3030	Dickenson Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.27	6	Urban						0.27
3040	Lahainaluna Road : Front Street (Route 3010) > Lahainaluna School entry	0.00	1.63	5	Urban					1.63	
3050	Shaw Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.20	6	Urban						0.20

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3060	Kapunakea Street : Front Street (Route 3010) > Lahaina Bypass (Route 3000)	0.00	0.80	5	Urban					0.80	
3070	Kenui Street : Front Street (Route 3010) > Honoapiilani Highway (Route 30)	0.00	0.20	6	Urban						0.20
3075	Keawe Street : Honoapiilani Highway (Route 30) > Lahaina Bypass (Route 3000)	0.00	0.90	5	Urban					0.90	
3080	Lower Honoapiilani Road : Honoapiilani Highway (Route 30) > Napili Hau Street (Route 3090)	0.00	3.32	5	Urban					3.32	
3090	Napili Hau Street : Lower Honoapiilani Road (Route 3080) > Honoapiilani Highway (Route 30)	0.00	0.26	5	Urban					0.26	
3100	South Kihei Road : North Kihei Road (Route 310) > Okolani Drive (Route 3125)	0.00	6.22	5	Urban					6.22	
3115	Kenolio Road : Uwapo Road > Hoopili Akau Street	0.00	1.21	6	Urban						1.21
3115	North-South Connector: Kenolio Street > Keonekai Road	1.21	4.91	5	Urban					3.70	
3120	Kilohana Drive : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.70	6	Urban						0.70
3125	Okolani Drive : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.85	6	Urban						0.85
3130	Keonekai Road : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.60	6	Urban						0.60
3135	Wailea Alanui Drive : Kilohana Drive (Route 3120) > Wailea Ike Drive (3137)	0.00	1.34	5	Urban					1.34	
3137	Wailea Ike Drive : Piilani Highway (Route 31) > Wailea Alanui Drive (Route 3135)	0.00	0.60	5	Urban					0.60	
3138	Alanui Ke Alii Drive: South Kihei Road (Route 3100) > Piilani Highway (Route 31)	0.00	0.50	6	Urban						0.50
3140	Kanani Road : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.50	6	Urban						0.50
3150	Welakahao Road : South Kihei Road (Route 3100) > Piilani Highway (Route 31)	0.00	0.58	6	Urban						0.58
3160	Lipoa Street : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.60	6	Urban						0.60
3165	Piikea Avenue: South Kihei Road (Route 3100) > Piilani Highway (Route 31)	0.00	0.60	6	Urban					0.60	
3170	Waipuiani Road : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.60	6	Urban						0.60
3175	Kulanihakoi Street : Piilani Highway (Route 31) > South Kihei Road (Route 3100)	0.00	0.50	6	Urban						0.50
3180	Waiale Road: Wells Street (Route 3830) > Kuikahi Drive (Route 3210)	0.00	1.10	5	Urban					1.10	
3185	E. Waiko Road: Honoapiilani (Route 30) > Waiale Road	0.00	0.42	6	Urban					0.42	
3190	Ohukai Road : Hoalike Street > South Kihei Road (Route 3100)	0.00	0.97	6	Urban						0.97

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3200	West Main Street/Iao Valley Road : High Street (Route 30) > Iao Valley State Park	0.00	2.70	6	Urban						2.70
3210	Kuikahi Drive : South Alu Road > Waiale Road (Route 3180)	0.00	1.16	6	Urban						1.16
3231	Mahalani Street/Waiinu Road : Kaahumanu Avenue (Route 32) > Waiale Road (Route 3180)	0.00	1.18	5	Urban					1.18	
3400	Kahului Beach Road/Waiehu Beach Road : Kaahumanu Avenue (Route 32) > Kahekili Highway (Route 3405)	0.00	2.62	4	Urban				2.62		
3405	South Market Street/North Market Street : Wells Street (Route 3830) > Piihana Road	0.00	0.54	5	Urban					0.54	
3405	Kahekili Highway : Piihana Road > Waiehu Beach Road (Route 3400)	0.54	2.26	6	Urban						1.72
3410	Wahinepio Avenue : Kahului Beach Road (Route 3400) > Papa Avenue (Route 3910)	0.00	0.52	6	Urban						0.52
3420	Kanaloa Avenue : Kaahumanu Avenue (Route 32) > Kahului Beach Road (Route 3400)	0.00	0.90	5	Urban					0.90	
3500	Puunene Avenue : Kaahumanu Avenue (Route 32) > Kuihelani Highway (Route 380)	0.00	1.11	3	Urban NHS			1.11			
3600	Hansen Road: Mokulele Highway (Route 311) > Hana Highway (Route 36)	0.00	2.00	6	Urban						2.00
3610	Loha Street/Iolani Street : Old Haleakala Highway (Route 367) > End of Iolani Street	0.00	1.61	6	Urban						1.61
3620	Pukalani Street/Liholani Street : Old Haleakala Highway (Route 367) > Aina Lani Drive	0.00	1.40	6	Urban						1.40
3630	Makani Road : Old Haleakala Highway (Route 367) > Makawao Avenue (Route 365)	0.00	2.00	6	Urban						2.00
3700	Piilani Highway : Kula Highway (Route 37) > Haleakala National Park boundary	0.00	28.80	6	Rural						28.80
3700	Hana Highway : Haleakala National Park boundary > Keawa Place (Route 360)	28.80	38.59	5	Rural					9.79	
3800	Kahului Airport Access Road : Henaloa Street > Puunene Avenue (Route 3500)	0.00	1.67	3	Urban NHS			1.67			
3830	Wells Street : South High Street (Route 30) > Waiale Road (Route 3830)	0.00	0.44	6	Urban						0.44
3830	Waiale Road/East Main Street : Wells Street (Route 3830) > Waiehu Beach Road (Route 3400)	0.44	1.97	5	Urban					1.53	
3840	Mill Street : North Market Street (Route 3405) > East Main Street (Route 3830)	0.00	0.65	6	Urban						0.65
3910	Papa Avenue : Kaahumanu Avenue (Route 32) > Puunene Avenue (Route 3500)	0.00	2.56	5	Urban					2.56	
3920	Wakea Avenue : Kaahumanu Avenue (Route 32) > Hana Highway (Route 36)	0.00	1.65	5	Urban					1.65	
3930	Hina Avenue : Wakea Avenue (Route 3920) > Papa Avenue (Route 3910)	0.00	0.80	6	Urban						0.80

Federal-Aid System: County of Maui

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS Code	RURAL/ URBAN/NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
3940	Kamehameha Avenue : Hana Highway (Route 36) > Papa Avenue (Route 3910)	0.00	1.75	6	Urban						1.75
3945	Alamaha Street : Kamehameha Avenue (Route 3940) > Dairy Road (Route 380)	0.00	0.70	6	Urban						0.70
3950	Lono Avenue : Kaahumanu Avenue (Route 32) > Papa Avenue (Route 3910)	0.00	1.30	6	Urban						1.30
3960	Onehee Avenue : Wakea Avenue > Papa Avenue (Route 3910)	0.00	0.66	6	Urban						0.66
3970	Kea Street : Wakea Avenue (Route 3920) > Papa Avenue (Route 3910)	0.00	0.60	6	Urban						0.60
32A	Hobron Avenue : Hana Highway (Route 36) > Kahului Harbor gate	0.00	0.41	3	Urban NHS			0.41			
32B	Wharf Street : Kaahumanu Avenue (Route 32) > Harbors Division lot Pier 2	0.00	0.17	3	Urban NHS			0.17			
36A	Haleakala Highway /Keolani Place : Hana Highway (Route 36) > Kahului Airport	0.00	0.51	4	Urban				0.51		
	MOLOKAI										
450	Kamehameha V Highway : Ala Malama Avenue > end of pavement	0.00	27.51	5	Rural					27.51	
460	Kaunakai Place / Maunaloa Highway : beginning of state route > end of state route	0.00	16.56	5	Rural					16.56	
465	Airport Loop : Maunaloa Highway (east junction) > Maunaloa Highway (west junction)	0.00	2.13	5	Rural					2.13	
470	Kalae Highway : Maunaloa Highway (Route 460) > Kalaupapa lookout parking lot	0.00	5.79	5	Rural					5.79	
475	Lihi Pali Avenue/Puukapele Avenue : Farrington Highway (Route 480) > end of county route	0.00	4.06	6	Rural						4.06
480	Farrington Avenue/Puupeelua Avenue : Kalae Highway > Maunaloa Highway (Route 460)	0.00	3.66	5	Rural					3.66	
	LANAI										
430	Fraser Avenue : Kaunalapau Highway (Route 440) > Caldwell Avenue	0.00	0.90	5	Rural					0.90	
435	Lanai Avenue : Kaunalapau Highway > end of county route	0.00	1.00	5	Rural					1.00	
440	Kaunalapau Highway/Manele Road : Kaunalapau Harbor > Hulopoe Beach Park	0.00	13.18	5	Rural					13.18	
441	Airport Road : airport terminal > Kaunalapau Highway (Route 440)	0.00	0.47	5	Rural					0.47	
442	Kaunalapau Highway : Manele Road (Route 440) > Lanai Avenue (Route 435)	0.00	0.20	7	Rural					0.20	

Federal-Aid System: County of Hawaii

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS Code	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
11	Kanoelehua Avenue/Volcano Road : Kamehameha Avenue (Route 19) > Old Keaau-Pahoa Road (Route 139)	0.00	7.30	3	Urban NHS			7.30			
11	Volcano Road/Mamalahoa Highway : Old Keaau-Pahoa Road (Route 139) > 0.01 miles past Capt. Cook Village Road	7.30	109.22	4	Rural				101.92		
11	Mamalahoa Highway/Kuakini Highway/Queen Kaahumanu Highway : 0.01 miles past Capt. Cook Village Road (end of state highway) > Palani Road (Route 190)	109.22	122.08	3	Urban NHS			12.86			
19	Kuhio Street/Kalaniana'ole Street/Kamehameha Avenue/Pauahi Street/Bay Front Highway/Hawaii Belt Road : entrance to Kuhio Wharf > 00.13 miles before Hau Street	0.00	3.09	3	Urban NHS			3.09			
19	Hawaii Belt Road : 0.13 miles before Hau Street > Mud Lane (Route 19)	3.09	51.82	3	Rural NHS			48.73			
19	Hawaii Belt Road/Mamalahoa Highway/Lindsey Road/Kawaihae Road/Queen Kaahumanu Highway : Mud Lane (Route 19) > Palani Road (Route 190)	51.82	99.59	3	Urban NHS			47.77			
121	North Kulani Road : Volcano Road (Route 11) > Huina Road	0.00	1.60	6	Rural						1.60
122	Wright Road : Kilinoe Road > Volcano Road (Route 11)	0.00	1.22	6	Rural						1.22
130	Keaau-Pahoa Road : Volcano Road (Route 11) > Pahoa-Kapoho Road (Route 132)	0.00	12.14	4	Urban				12.14		
130	Pahoa-Kalapana Road/Kaimu-Chain of Craters Road : Pahoa-Kapoho Road (Route 132) > end of route (0.83 miles past Royal Palm Drive)	12.14	25.32	5	Rural					13.18	
132	Pahoa-Kapoho Road : Pahoa-Keeau Road (Route 130) > Kaimu-Kapoho Road	0.00	7.73	5	Rural					7.73	
134	Pahoa Village Road : Keaau-Pahoa Road (Route 130) > Pahoa Kalapana-Road [through Pahoa town] (Route 130)	0.00	1.49	5	Rural					1.49	
135	Pohoiki Road : Pahoa-Kapoho Road (Route 132) > Kalapana Road-Kapoho Road (Route 137)	0.00	4.56	6	Rural						4.56
137	Kapoho Kalapana Road : Pahoa-Kapoho Road (Route 132) > Pahoa-Kalapana Road (Route 130)	0.00	15.06	6	Rural						15.06
138	Kahakai Boulevard : Keeau-Pahoa Road (Route 130) > Papio Street	0.00	5.90	5	Urban					5.90	
139	Old Keaau-Pahoa Road : Volcano Road (Route 11) > Keaau-Pahoa Road (Route 130)	0.00	1.19	5	Rural					1.19	
145	Kamani Street : Pikake Street > Mamalahoa Highway (Route 11)	0.00	0.50	6	Rural						0.50
155	Kamaoa Road : South Point Access Road (Route 150) > Mamalahoa Highway (Route 11)	0.00	3.98	6	Rural						3.98
160	Ke Ala O Keawe Road : Mamalahoa Highway (Route 11) > end of route	0.00	3.82	5	Rural					3.82	
161	Napoopoo Road : Puuhonua Road > Mamalahoa Highway (Route 11)	0.00	4.40	5	Urban					4.40	
163	Ke Ala O Keawe Road (City of Refuge spur) : Ke Ala O Keawe Road > parking lot entrance	0.00	0.13	5	Rural					0.13	

Federal-Aid System: County of Hawaii

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS Code	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
164	Halekii Street : Mamao Street > Mamalahoa Highway (Route 11)	0.00	0.26	5	Urban					0.26	
180	Haawina Street/Mamalahoa Highway : Kuakini Highway (Route 11) > Mamalahoa Highway (Route 190)	0.00	9.14	4	Urban				9.14		
182	Lako Street : Kuakini Highway (Route 11) > end of route (future connection to Alii Drive)	0.00	0.49	6	Urban						0.49
184	Sunset Drive : Marlin Road > Kuakini Highway (Route 11)	0.00	0.32	7	Urban						0.32
185	Kamehameha III Road : Kuakini Highway (Route 11) > Manukai Street	0.00	1.76	5	Urban					1.76	
186	Palani Road/ Alii Drive: Kuakini Highway (Route 11) > Mamalahoa Bypass	0.00	7.06	5	Urban					7.06	
187	Walua Road : Akoni Drive > Kuakini Highway (Route 11)	0.00	0.60	6	Rural						0.60
188	Hualalai Road : Alii Drive (Route 186) > Queen Kaahumanu Highway (Route 11)	0.00	1.30	5	Urban					1.30	
189	Kaleiopapa Road : Ehukai Street > Alii Drive (Route 186)	0.00	0.25	6	Urban						0.25
190	Mamalahoa Highway : Lindsey Road (Route 19) > 0.31 miles after Waimea-Kohala Airport Road	0.00	2.02	4	Urban				2.02		
190	Mamalahoa Highway : 0.31 miles after Waimea-Kohala Airport Road > Makalei Golf Club	2.02	31.31	4	Rural				29.29		
190	Mamalahoa Highway : Makalei Golf Club > 0.06 Miles after Mamalahoa Highway (Route 180)	31.31	35.30	4	Urban				3.99		
190	Palani Road : 0.06 Miles after Mamalahoa Highway (Route 180) > Kuakini Highway (Route 1100)	35.30	38.99	5	Urban					3.69	
191	Waikoloa Road : Mamalahoa Highway (Route 190) > Queen Kaahumanu Highway (Route 19)	0.00	11.93	4	Urban				11.93		
192	Hina Lani Street : Queen Kaahumanu Highway (Route 19) > Mamalahoa Highway (Route 190)	0.00	3.60	5	Urban					3.60	
196	Paniolo Avenue : Waikoloa Road (Route 191) > Hooko Street	0.00	1.64	5	Urban					1.64	
197	Kealakehe Parkway : Queen Kaahumanu Highway (Route 19) > Palani Road (Route 190)	0.00	3.10	4	Urban				3.10		
198	Kaiminani Drive : Mamalahoa Highway (Route 190) > Queen Kaahumanu Highway (Route 19)	0.00	3.62	5	Urban					3.62	
200	Saddle Road : Hilo urban boundary (0.16 miles before Ua Nahele St) > Queen Kaahumanu Highway (Route 19)	0.00	54.00	4	Rural				54.00		
220	Honolulu Road/Old Mamalahoa Highway/Akaka Falls Road: Hawaii Belt Road (Route 19) > Akaka Falls entrance	0.00	3.77	6	Rural						3.77
222	Old Mamalahoa Highway : Hawaii Belt Road (NW junction) (Route 19) > Hawaii Belt Road (SE junction) (Route 19)	0.00	0.80	7	Rural						0.80

Federal-Aid System: County of Hawaii

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS Code	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
227	Lehua Street/Plumeria Street : Mamane Street (Route 240) > Hawaii Belt Road (Route 19)	0.00	0.66	5	Rural					0.66	
228	Pikake Street : Ohia Street > Hawaii Belt Road (Route 19)	0.00	0.41	6	Rural						0.41
240	Honokaa-Waipio Road/Mamane Street : Hawaii Belt Road (Route 19) > Lehua Street/Plumeria Street (Route 227)	0.00	1.50	5	Rural					1.50	
240	Honokaa-Waipio Road : Lehua Street/Plumeria Street (Route 227) > Waipio Valley lookout	1.50	9.62	6	Rural						8.12
250	Kohala Mountain Road : Kawaihae Road (Route 19) > beginning of rural boundary	0.00	1.77	5	Urban					1.77	
250	Kohala Mountain Road/Hawi Road : beginning of rural boundary > Akoni Pule Highway (Route 270)	1.77	19.28	5	Rural					17.51	
270	Kawaihae Road : Queen Kaahumanu Highway (Route 19) > Kawaihae Bridge (#001000270300326)	0.00	1.36	3	Urban NHS			1.36			
270	Kawaihae Road/Akoni Pule Highway : Kawaihae Bridge (#001000270300326) > Maluokalani Street	1.36	2.44	4	Urban NHS				1.08		
270	Akoni Pule Highway : Maluokalani Street > Niulii Bridge (#001002700502390)	2.44	25.39	4	Rural				22.95		
270	Akoni Pule Highway : Niulii Bridge (#001002700502390) > Pololu Valley entrance	25.39	27.02	5	Rural					1.63	
272	Kynnersley Road : Kohala Mountain Road (Route 250) > Akoni Pule Highway (Route 270)	0.00	2.32	6	Rural						2.32
1100	Kuakini Highway : Kaiwi Street (Route 1835) > Queen Kaahumanu Highway (Route 11)	0.00	3.08	5	Urban					3.08	
1110	Alii Highway/Parkway : Alii Drive (Route 186) > Queen Kaahumanu Highway (Route 11)	0.00	4.44	6	Urban					4.44	
1370	Kalaniana'ole Avenue : Kuhio Street > Pua Avenue	0.00	0.48	3	Urban NHS			0.48			
1370	Kalaniana'ole Avenue : Pua Avenue > Lelewi Street	0.48	2.98	5	Urban					2.50	
1810	Nani Kailua Drive : Hienaloli Road > Queen Kaahumanu Highway (Route 11)	0.00	0.83	6	Urban						0.83
1830	Henry Street : Kuakini Highway (Route 1100) > Queen Kaahumanu Highway (Route 11)	0.00	0.35	5	Urban					0.35	
1835	Kaiwi Street : Queen Kaahumanu Highway (Route 19) > Kuakini Highway (Route 1100)	0.00	0.52	5	Urban					0.52	
1880	Ane Keohokalole Highway : Palani Road (Route 190) > Kaiminani Drive (Route 198)	0.00	5.65	5	Urban					5.65	
1905	Kealakaa Street : Uluaoa Street > Palani Road (Route 190)	0.00	0.54	6	Urban						0.54
1910	Kamehameha Avenue : Waianuenue Avenue (Route 1950) > Pauahi Street (Route 19)	0.00	0.66	4	Urban				0.66		

Federal-Aid System: County of Hawaii

ROUTE	ROADWAY NAME AND EXTENT	BEGIN MP	END MP	HPMS Code	RURAL/ URBAN/ NHS	MILEAGE BY FUNCTIONAL CLASSIFICATION					
						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
1920	Kilauea Avenue : Ponahawai Street (Route 2730)> Kanoiehua Avenue (Route 11)	0.00	4.08	4	Urban				4.08		
1921	Kilauea Avenue : Ponahawai Street (Route 2730) > Keawe Street	0.00	0.07	4	Urban				0.07		
1921	Keawe Street : Kilauea Avenue (Route 1921) > Waianuenue Avenue (Route 1950)	0.07	0.35	6	Urban						0.28
1925	Pauahi Street : Kamehameha Avenue (Route 19) > Kilauea Avenue (Route 1920)	0.00	0.30	5	Urban					0.30	
1930	Kinoole Street : Wailuku Drive (Route 2860) > Haihai Street (Route 2740)	0.00	3.91	4	Urban				3.91		
1940	Komohana Street : Waianuenue Avenue (Route 1950) > Ainaola Drive (Route 2750)	0.00	3.00	5	Urban					3.00	
1950	Waianuenue Avenue/Kaumana Drive/Saddle Road : Kamehameha Avenue (Route 1910) > Hilo urban boundary (0.16 miles before Ua Nahele St)	0.00	7.84	5	Urban					7.84	
1960	Railroad Avenue : Leilani Street > Kahaopea Street	0.00	1.35	6	Urban						1.35
1970	Kamehameha Avenue/Silva Street : Railroad Avenue > Kalaniana'ole Street (Route 19)	0.00	0.93	6	Urban						0.93
2000	Puainako Street : Railroad Avenue (Route 1960) > Komohana Street (Route 1940)	0.00	2.18	5	Urban					2.18	
2000	Komohana Street/Puainako Street Extension: Puainako Street (Route 2000) > Kaumana Drive (Route 1950)	2.18	6.87	6	Urban						4.69
2460	Kamamalu Street : Mamalahoa Highway (Route 19) > Hiiaka Street	0.00	0.68	6	Urban						0.68
2470	Lindsey Road : Hokuula Road > Kawaihae Road (Route 19)	0.00	0.29	6	Urban						0.29
2710	Stainback Highway : Hilo south urban boundary > Volcano Road (Route 11)	0.00	1.49	6	Urban						1.49
2720	Waianuenue Avenue : Kaumana Drive (Route 1950) > Akolea Road (Route 2850)	0.00	2.11	5	Urban					2.11	
2730	Ponahawai Street : Komohana Street (Route 1940) > Kamehameha Avenue (Route 1910)	0.00	1.11	5	Urban						1.11
2740	Haihai Street : Kilauea Avenue (Route 1920) > Kupulau Road	0.00	2.55	5	Urban					2.55	
2750	Ainaola Drive : Kawaihine Street (Route 2760)> Kupulau Road	0.00	2.15	5	Urban					2.15	
2760	Kawaihine Street/Kupulau Place : Kanoiehua Avenue (Route 11) > Kupulau Road	0.00	2.70	5	Urban					2.70	
2760	Kupulau Road: Kupulau Place (Route 2760) > Ainaola Drive (Route 2750)	2.70	3.90	6	Urban						1.20
2770	Iwalani Street : Haihai Street (Route 2740)> Puainako Street (Route 2000)	0.00	1.40	6	Urban						1.40

Federal-Aid System: County of Hawaii

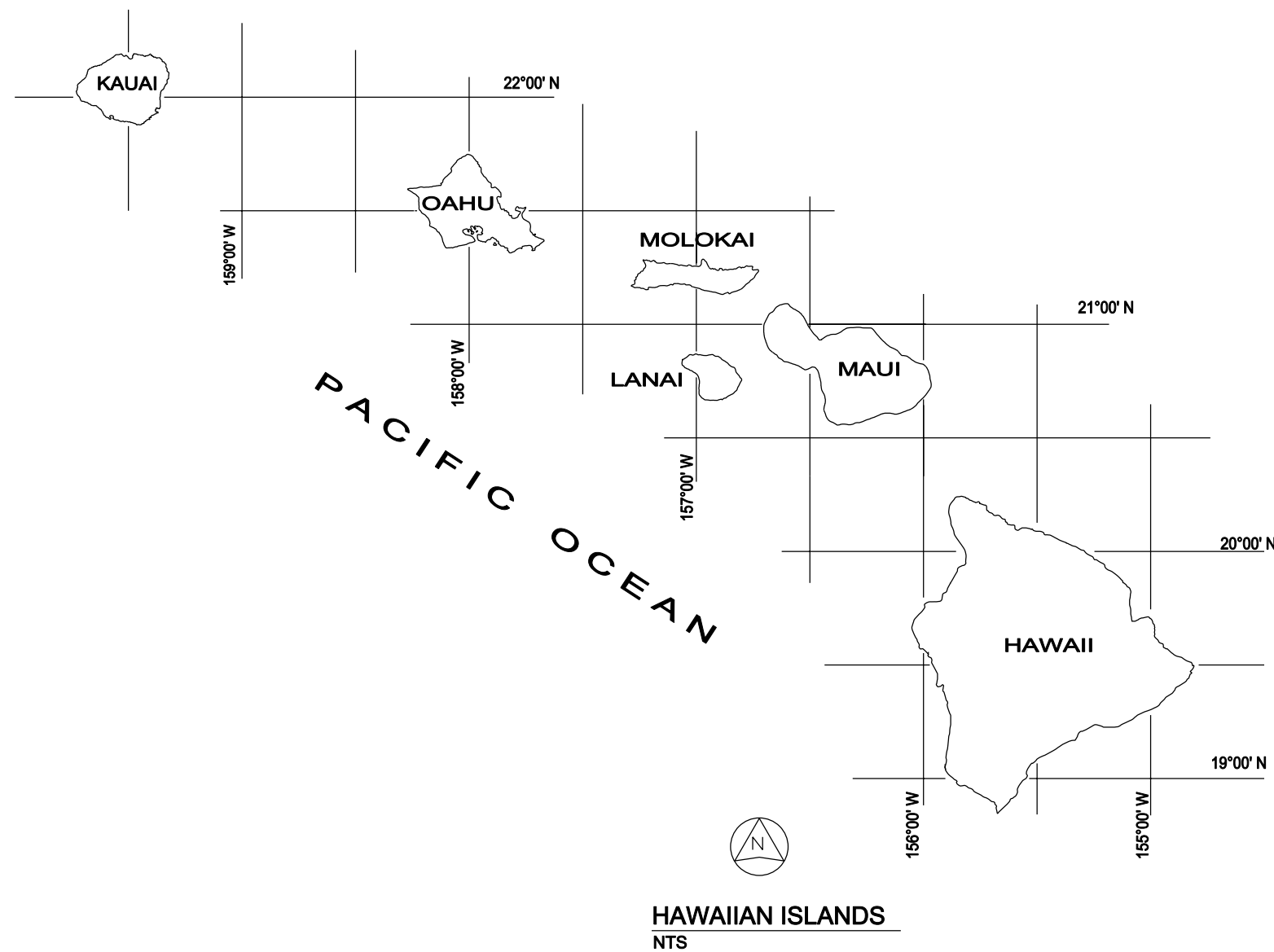
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						INTERSTATE	FREEWAY & EXPRESSWAY	ARTERIAL		COLLECTOR	
								PRINCIPAL	MINOR	MAJOR	MINOR
2770	Kawili Street/Manono Street : Puinako Street (Route 2000) > Kamehameha Avenue (Route 19)	1.40	3.75	5	Urban					2.35	
2790	Mohouli Street : Kilauea Avenue (Route 1920) > Komohana Street (Route 1940)	0.00	1.14	5	Urban					1.14	
2810	Kekuanaoa Street : Kanoelehua Avenue (Route 11) > Kilauea Avenue (Route 1920)	0.00	0.81	5	Urban					0.81	
2820	Lanikaula Street/Kumukoa Street : Kanoelehua Avenue (Route 11) > Mohouli Street (Route 2790)	0.00	1.81	6	Urban					1.81	
2840	Ainako Avenue/Lahi Street : Kaumana Drive (Route 1950) > Waianuenue Avenue (Route 2720)	0.00	1.50	6	Urban						1.50
2850	Akolea Road : Wainuenue Avenue (Route 2720) > Kaumana Drive (Route 1950)	0.00	1.88	6	Urban						1.88
2860	Wainaku Avenue/Wailuku Drive : Mamalahoa Highway (Route 19) > Kinoole Street (Route 1930)	0.00	1.80	5	Urban					1.80	



Appendix L

Federal-Aid System Maps

Federal-Aid Highway and State Highway System Update: System Identification and Functional Classification Project Numbers: SPR-0010 (30) & (31), Part I, W.O. 889

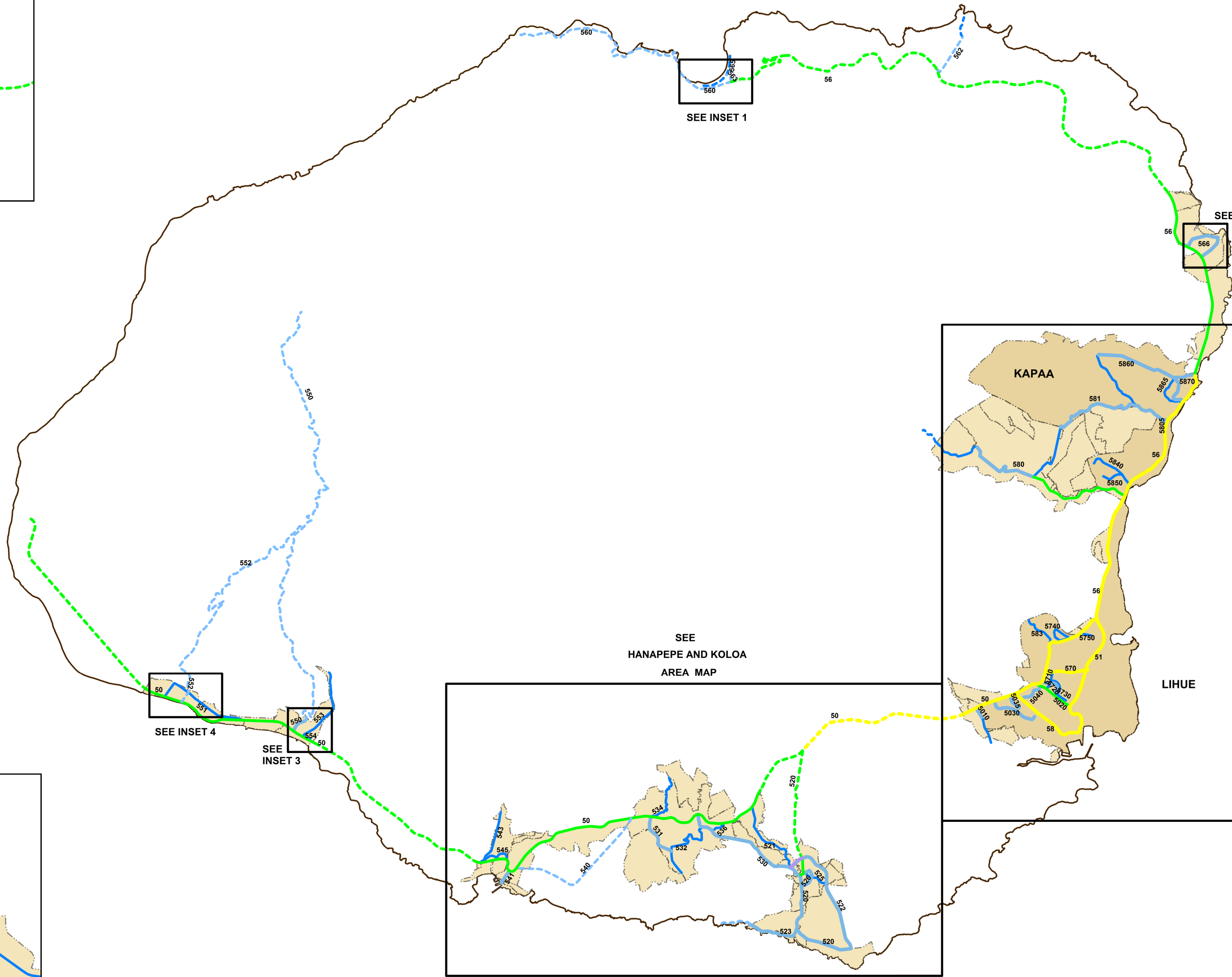
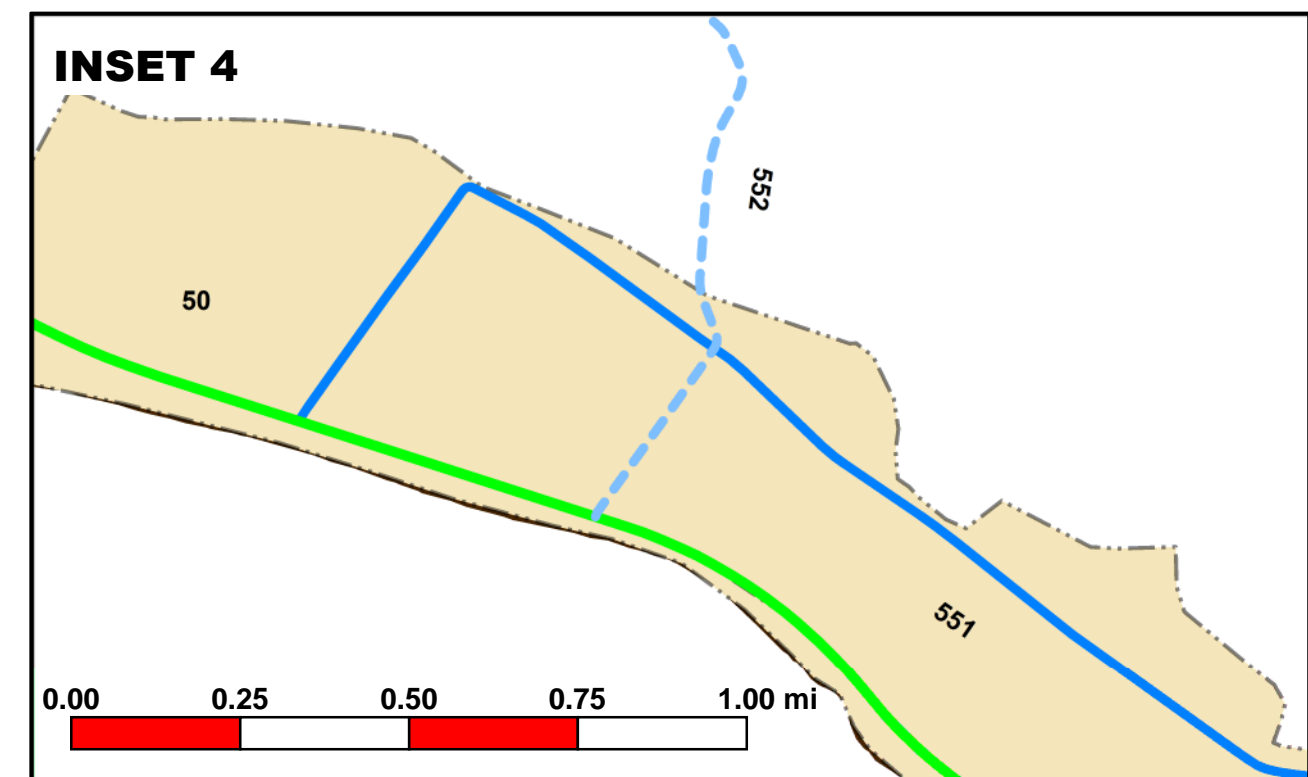
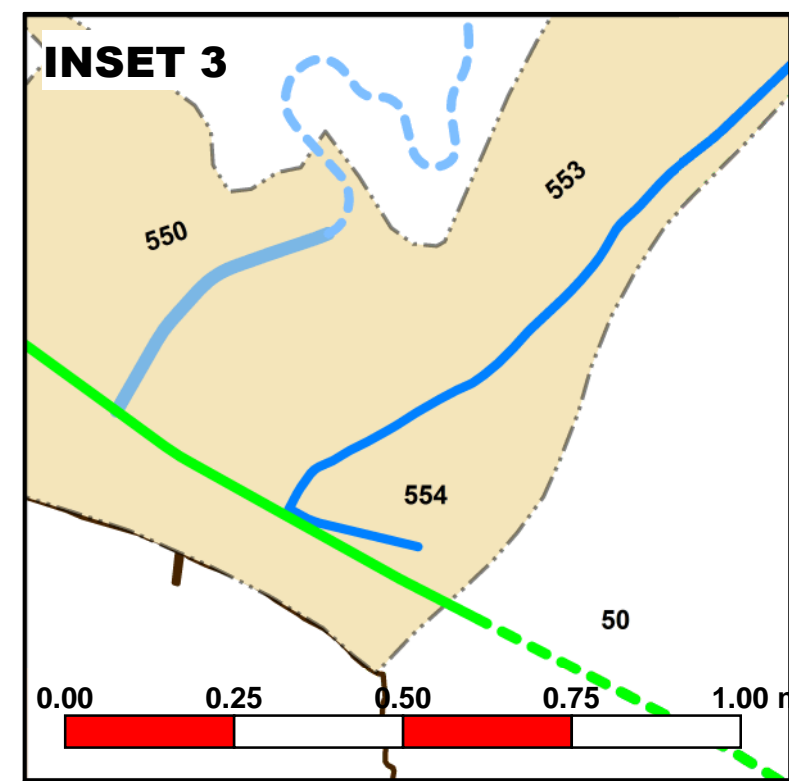
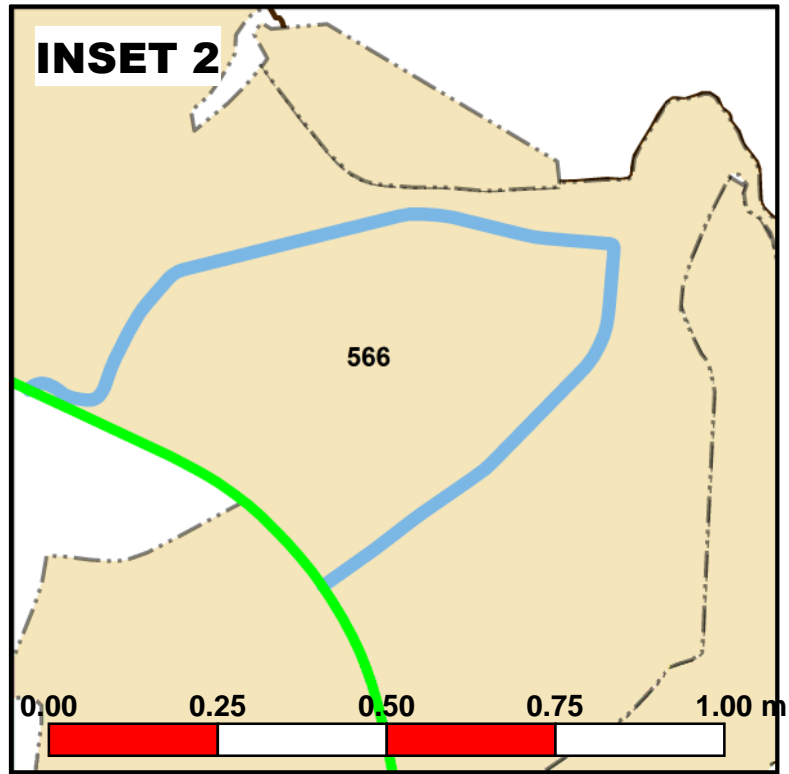
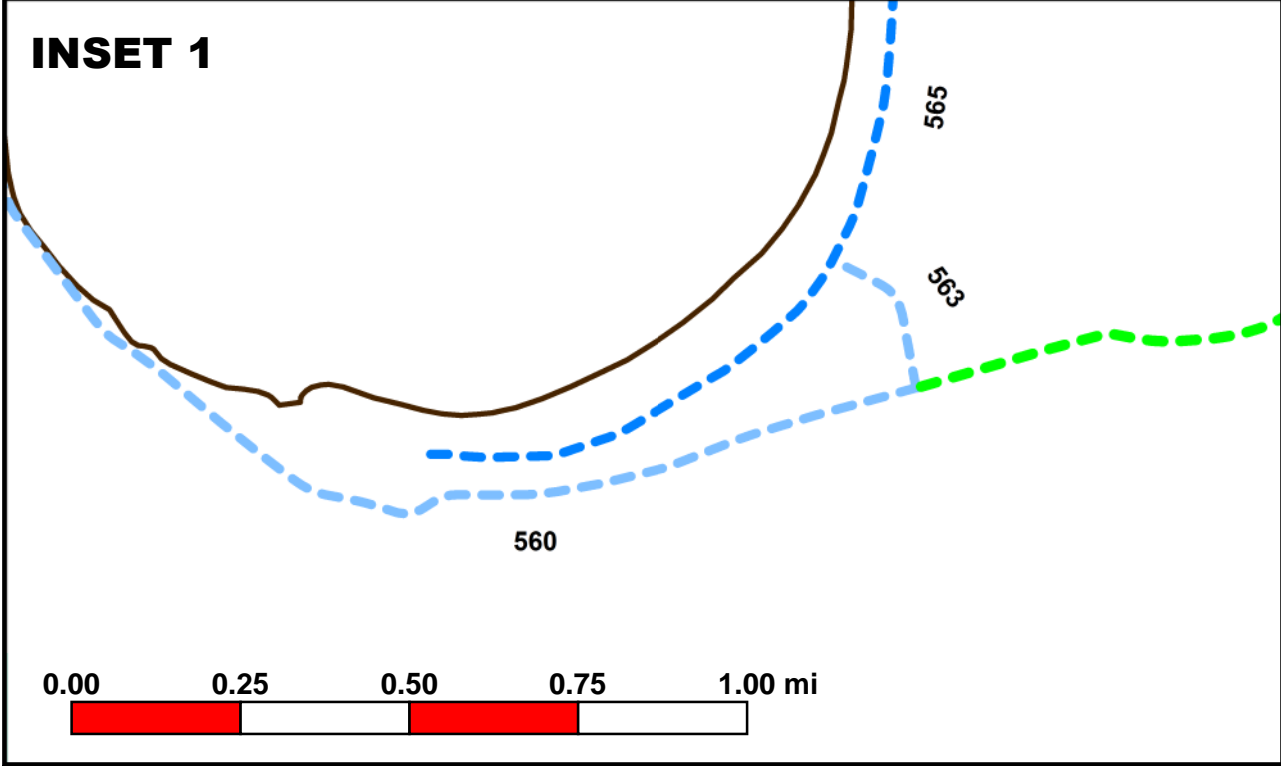


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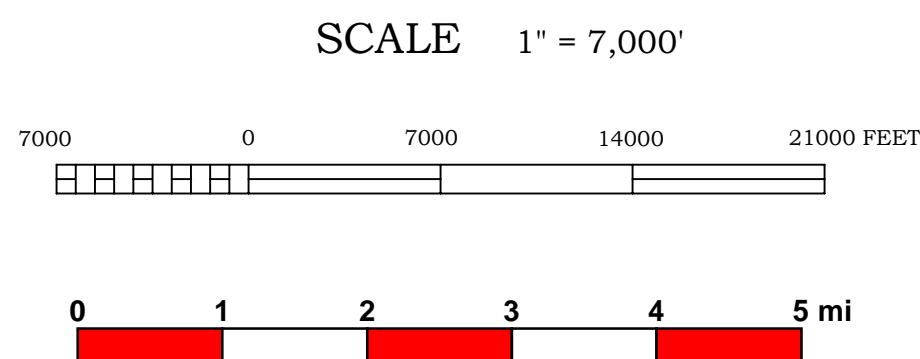
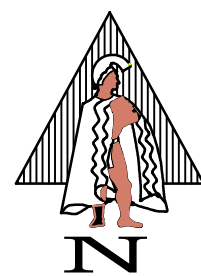
Division Administrator, Federal Highway Administration

Date

December, 2012

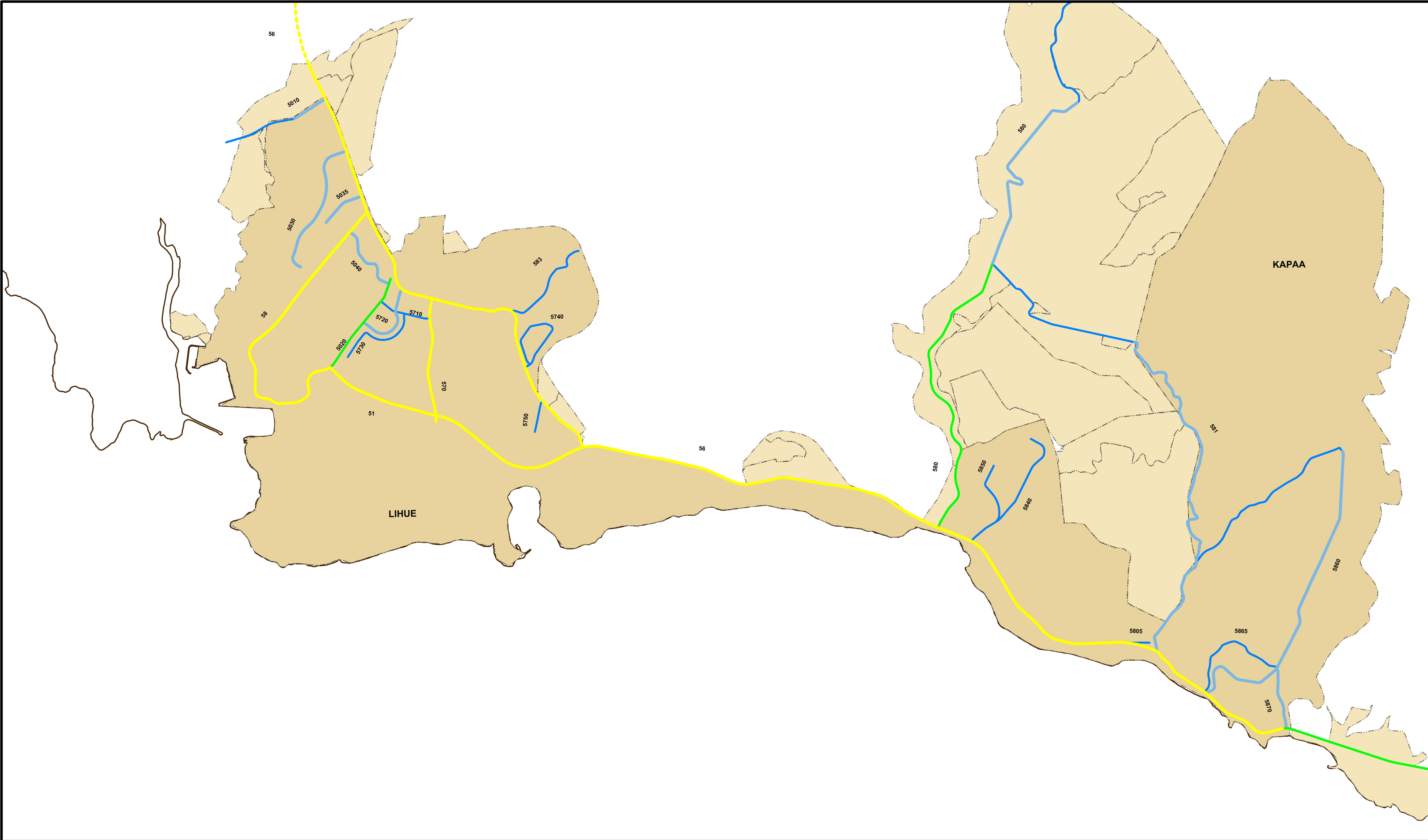


- Legend**
- Rural Principal Arterial - Other
 - Rural Minor Arterial
 - Rural Major Collector
 - Rural Minor Collector
 - Proposed / Committed / Under Construction
 - Urban Areas
 - Urban Principal Arterial - Interstate
 - Urban Principal Arterial - Freeways/Expressways
 - Urban Principal Arterial - Other
 - Urban Minor Arterial
 - Urban Major Collector
 - Urban Minor Collector



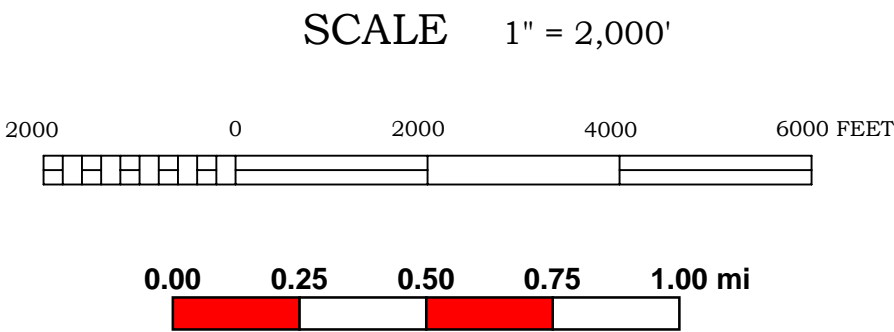
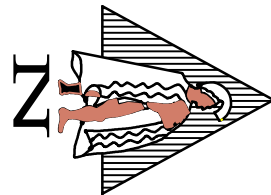
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xxxxxxx	x

HIGHWAY FUNCTIONAL CLASSIFICATION MAP
KEY TO SHEETS
ISLAND OF KAUAI
PREPARED BY THE
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
2013

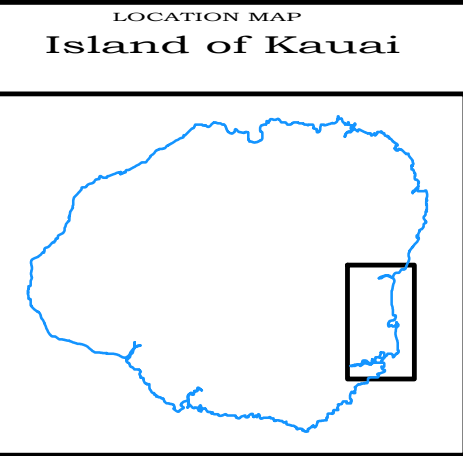


Legend

- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
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| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



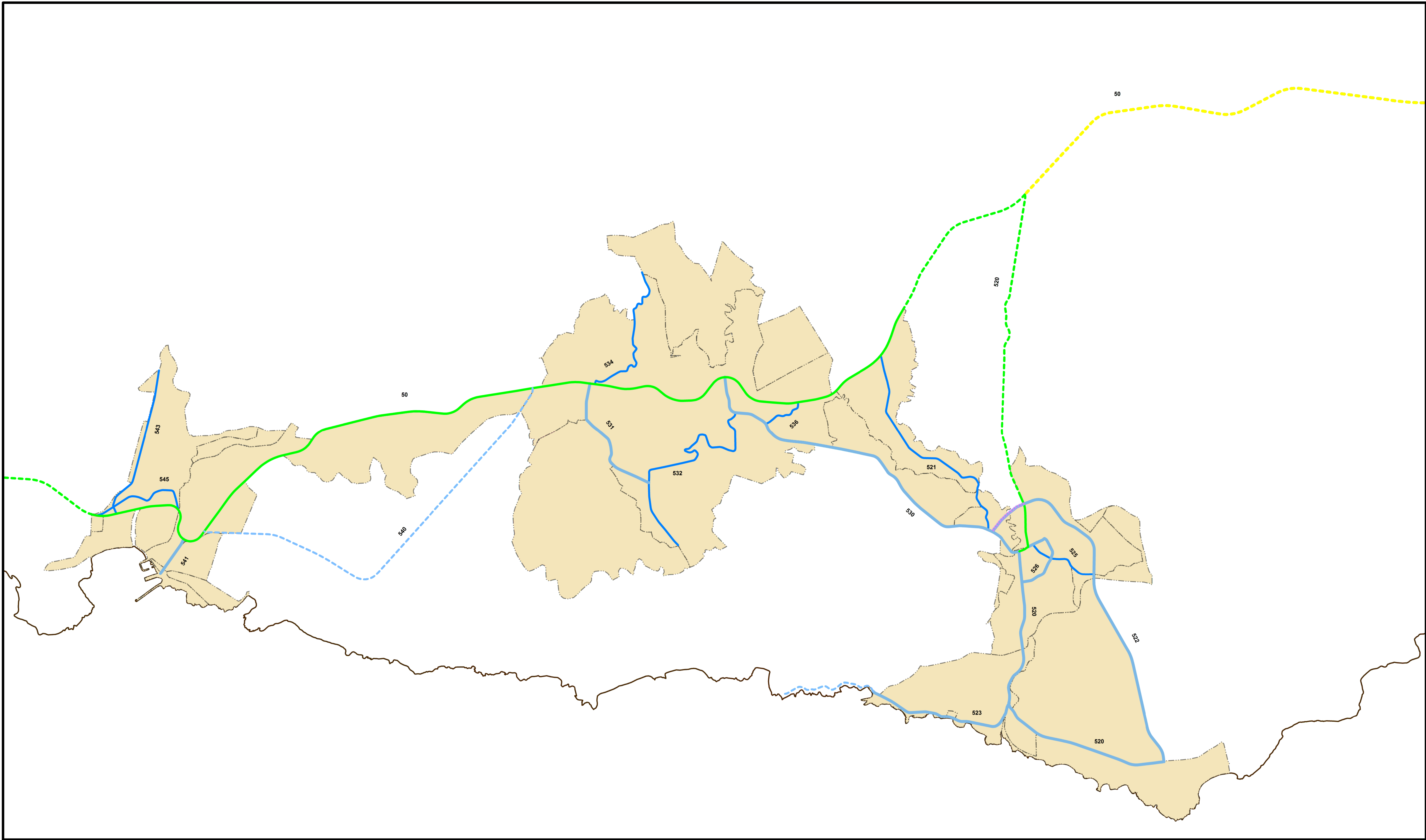
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

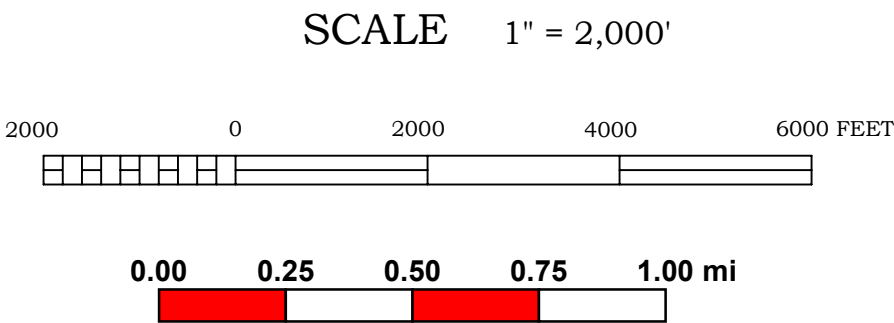
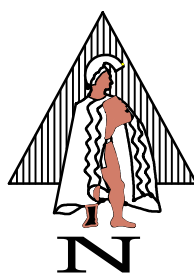
KAPAA AND LIHUE

PREPARED BY THE
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

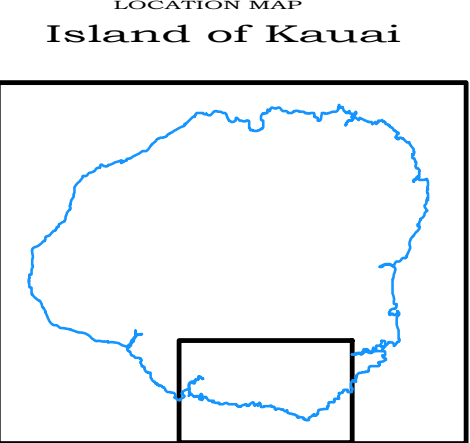


Legend

-  Rural Principal Arterial - Other
-  Rural Minor Arterial
-  Rural Major Collector
-  Rural Minor Collector
-  Proposed / Committed / Under Construction
-  Urban Areas
-  Urban Principal Arterial - Interstate
-  Urban Principal Arterial - Freeways/Expressways
-  Urban Principal Arterial - Other
-  Urban Minor Arterial
-  Urban Major Collector
-  Urban Minor Collector

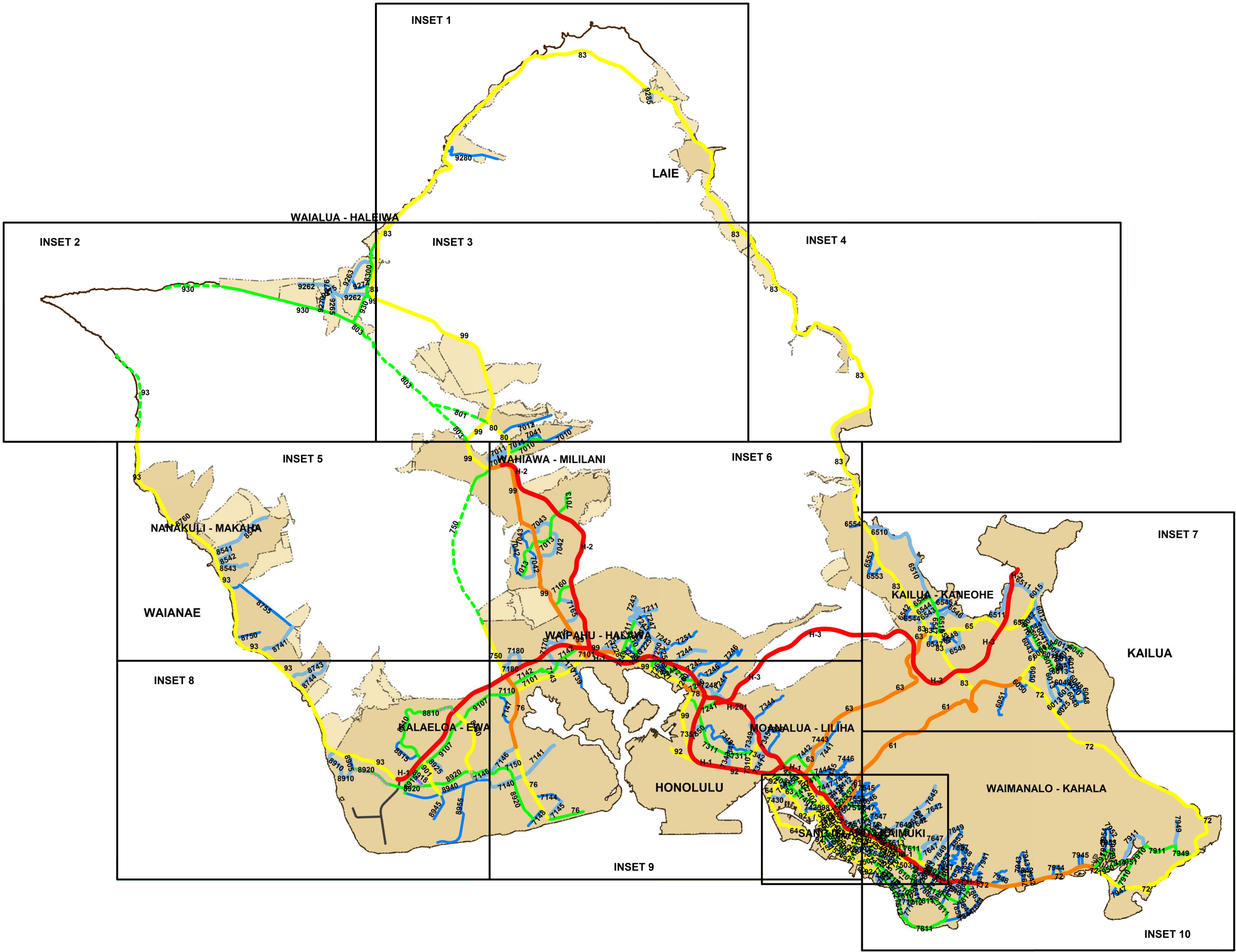


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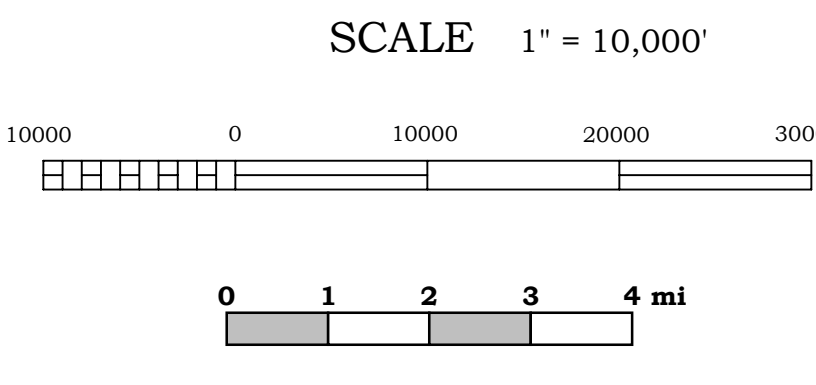
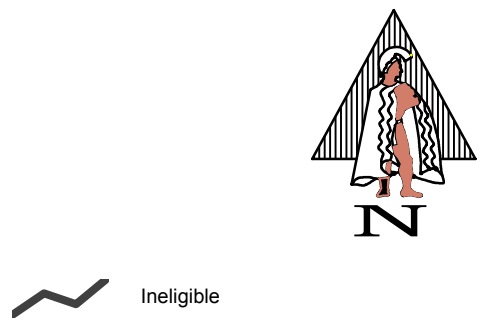
HIGHWAY FUNCTIONAL CLASSIFICATION MAP
HANAPEPE AND KOLOA

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STATE OF HAWAII
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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector



DATE	REVISIONS
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x

HIGHWAY FUNCTIONAL CLASSIFICATION MAP

KEY TO SHEETS

ISLAND OF OAHU

PREPARED BY THE

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HIGHWAYS DIVISION

HIGHWAY PLANNING BRANCH

IN COOPERATION WITH THE

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

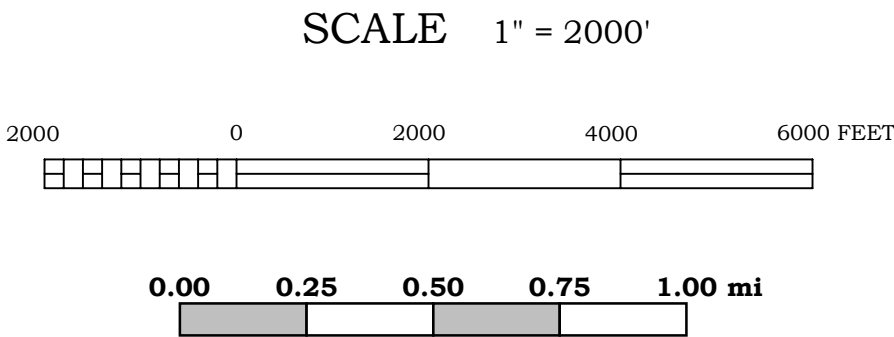
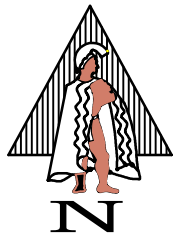
2013

INSET 1

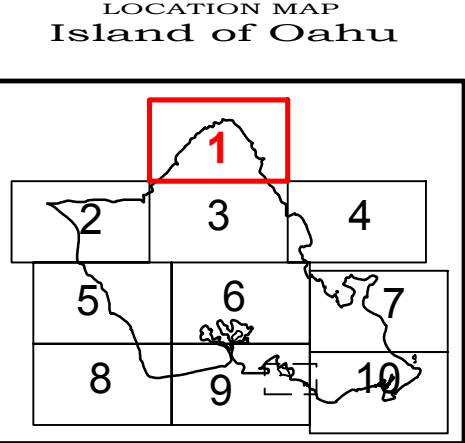


Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector



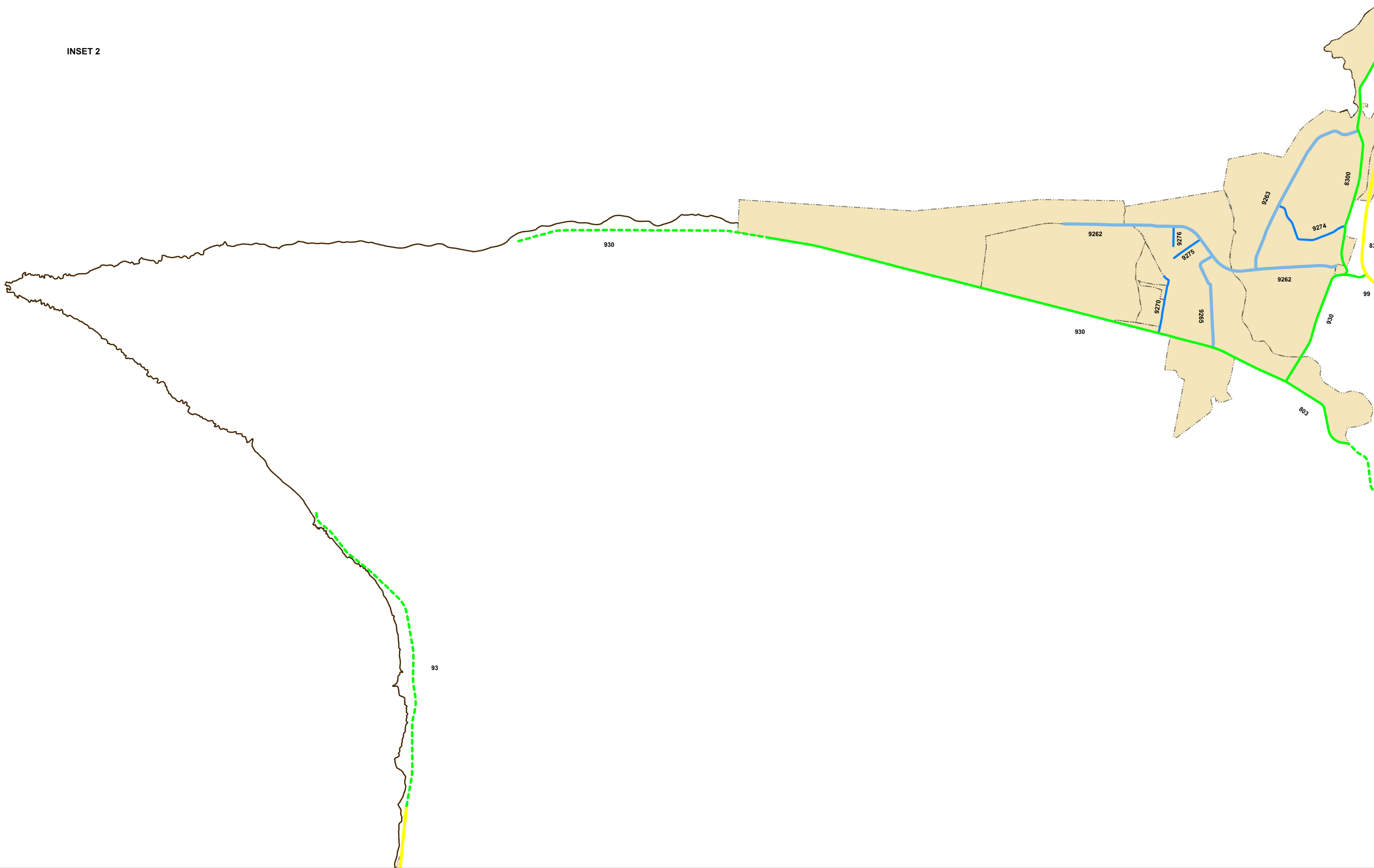
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

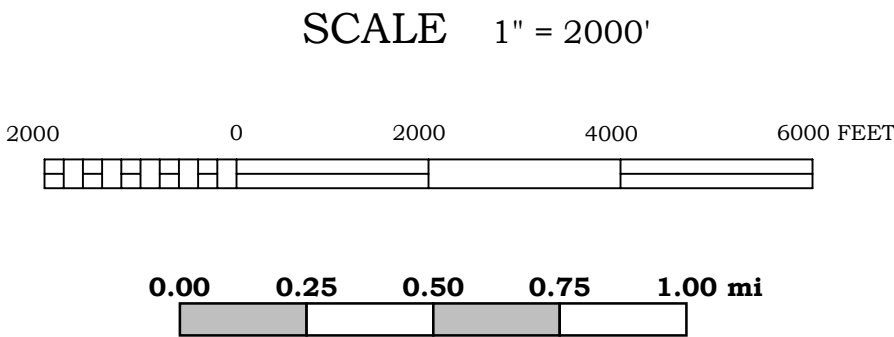
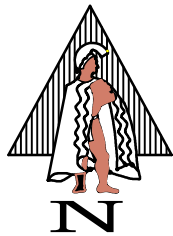
PREPARED BY THE
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HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

INSET 2



Legend

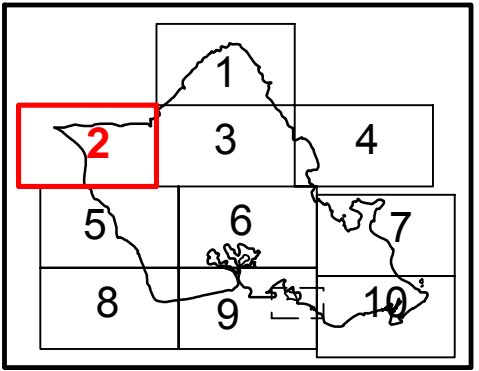
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|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



DATE	REVISIONS
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
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LOCATION MAP

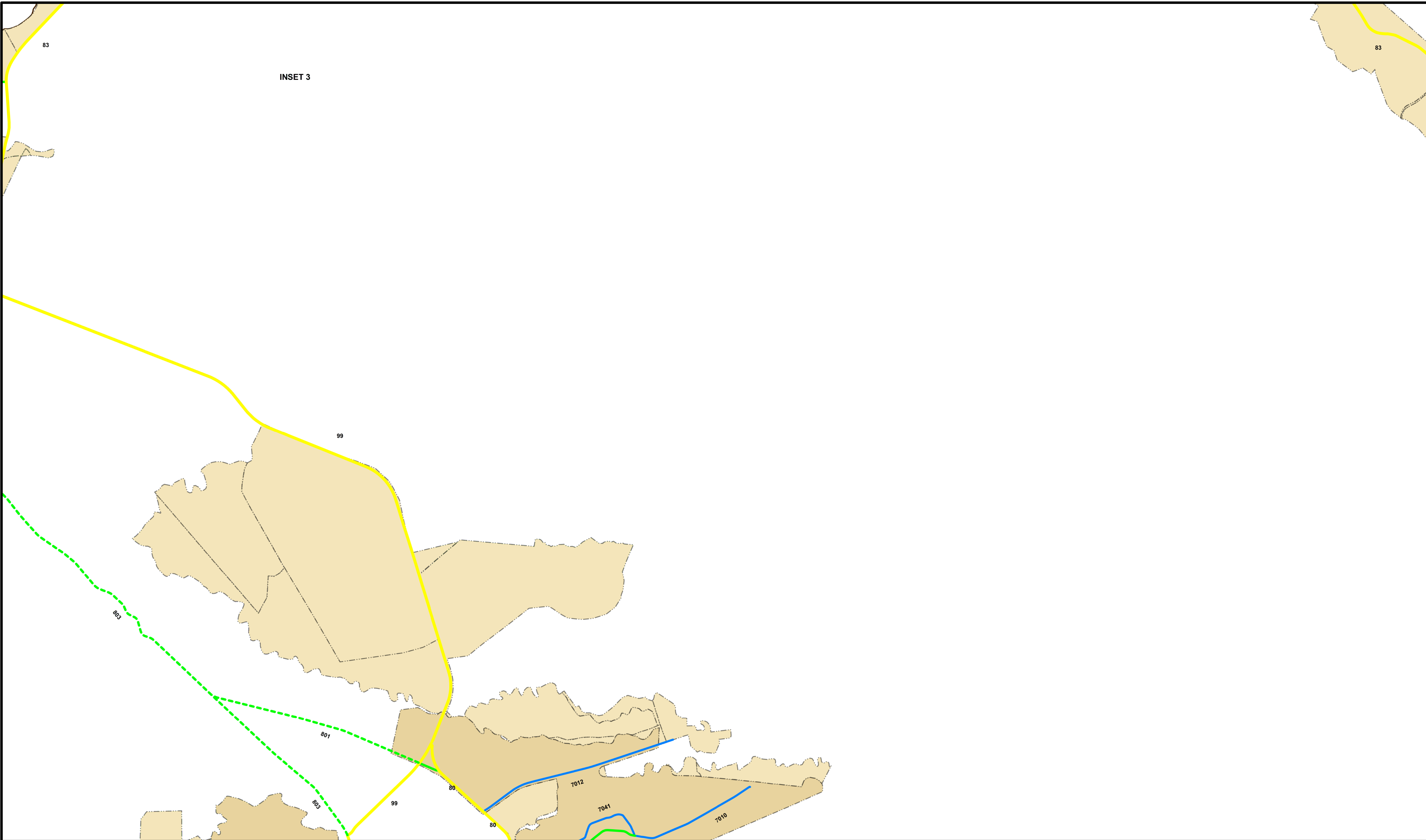
Island of Oahu



HIGHWAY FUNCTIONAL CLASSIFICATION MAP

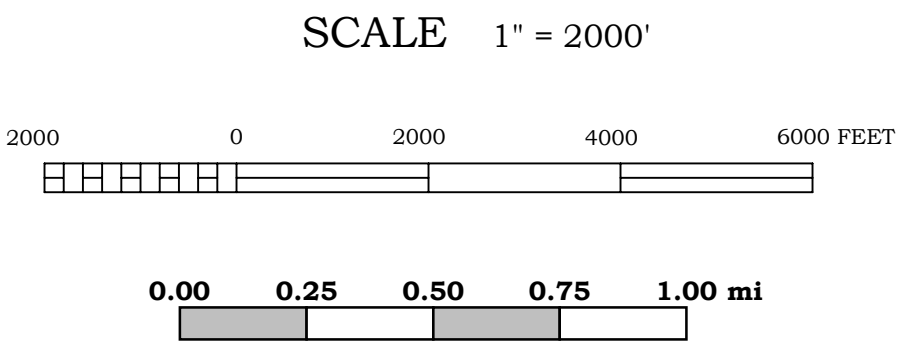
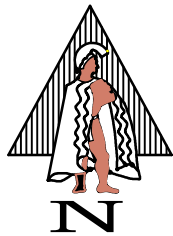
ISLAND OF OAHU

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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

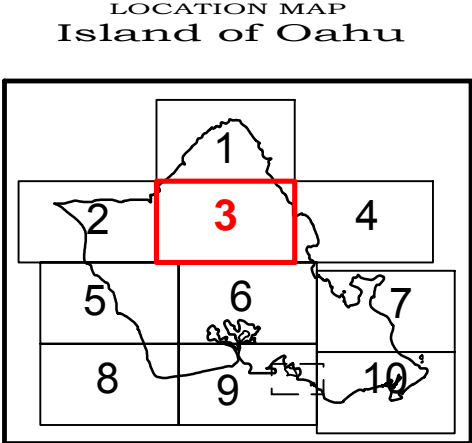


Legend

- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



DATE	REVISIONS
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

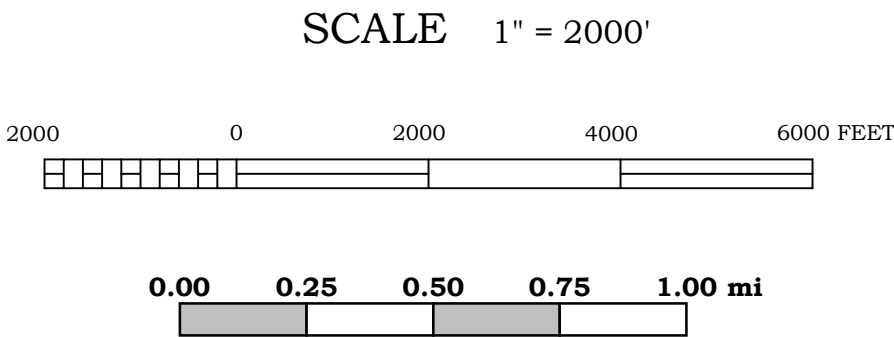
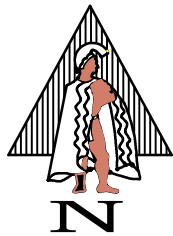
ISLAND OF OAHU

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HIGHWAYS DIVISION
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IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

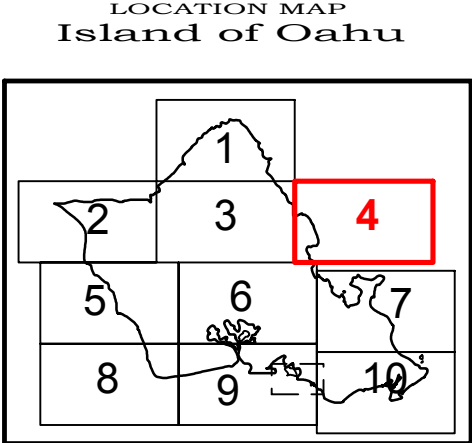


Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector



DATE	REVISIONS
xxxxxxxx	x
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xxxxxxxx	x
xxxxxxxx	x



HIGHWAY FUNCTIONAL CLASSIFICATION MAP

ISLAND OF OAHU

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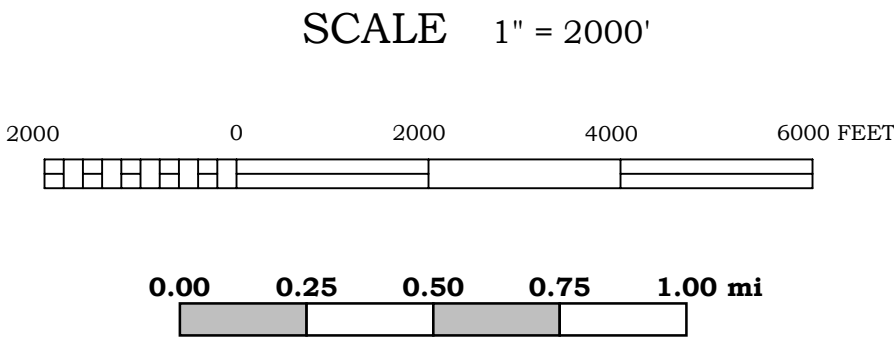
INSET 5

NANAKULI - MAKAHA

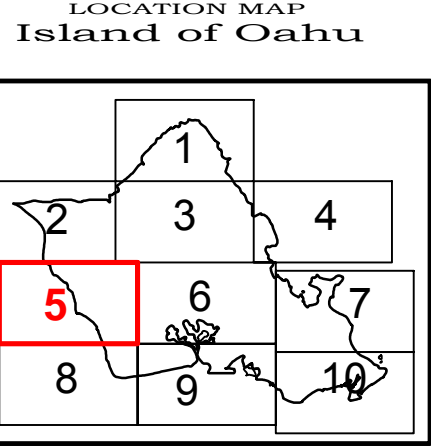
WAIANAE

Legend

-  Rural Principal Arterial - Other
-  Rural Minor Arterial
-  Rural Major Collector
-  Rural Minor Collector
-  Proposed / Committed / Under Construction
-  Urban Areas
-  Urban Principal Arterial - Interstate
-  Urban Principal Arterial - Freeways/Expressways
-  Urban Principal Arterial - Other
-  Urban Minor Arterial
-  Urban Major Collector
-  Urban Minor Collector



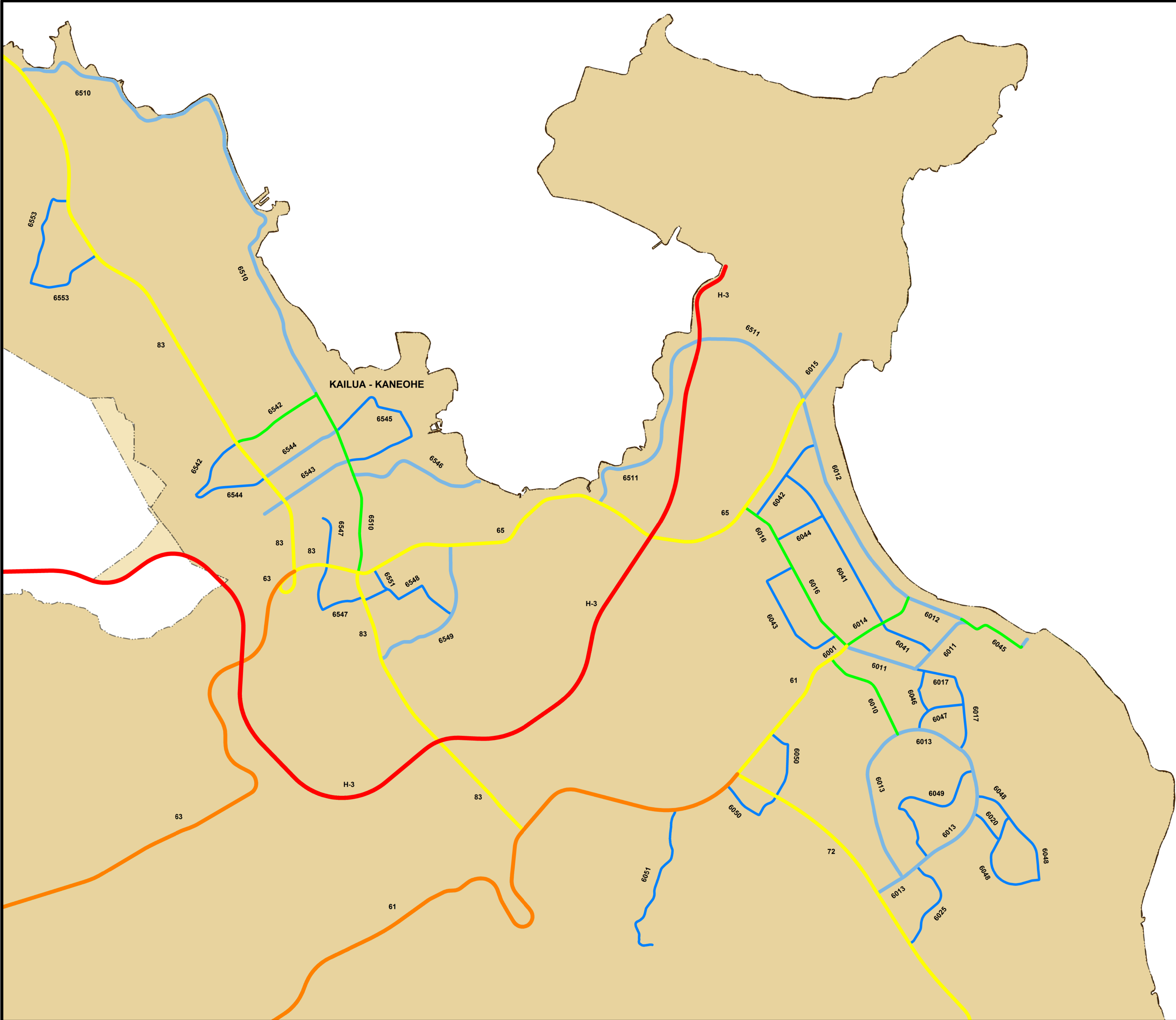
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xxxxxxx	x



HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
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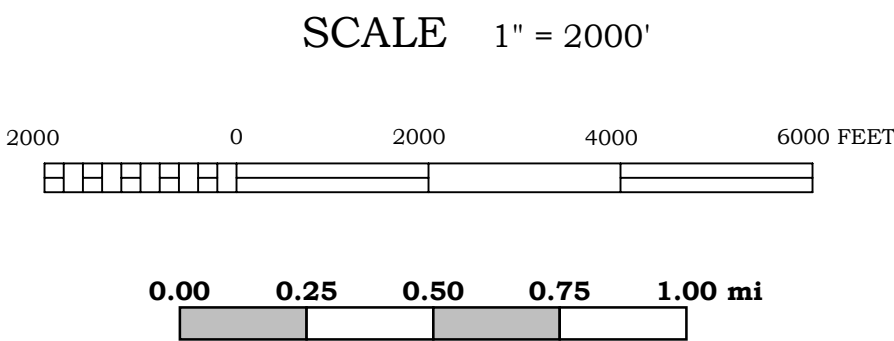
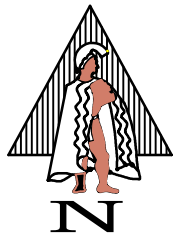
INSET 7



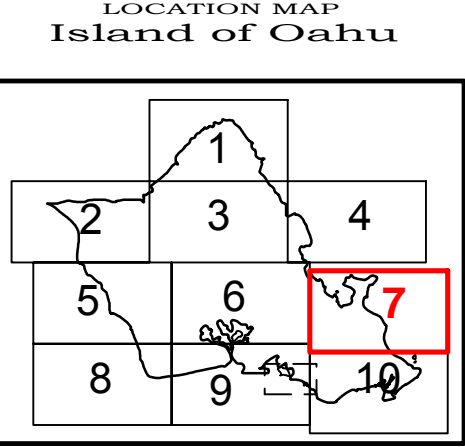
KAILUA

Legend

- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



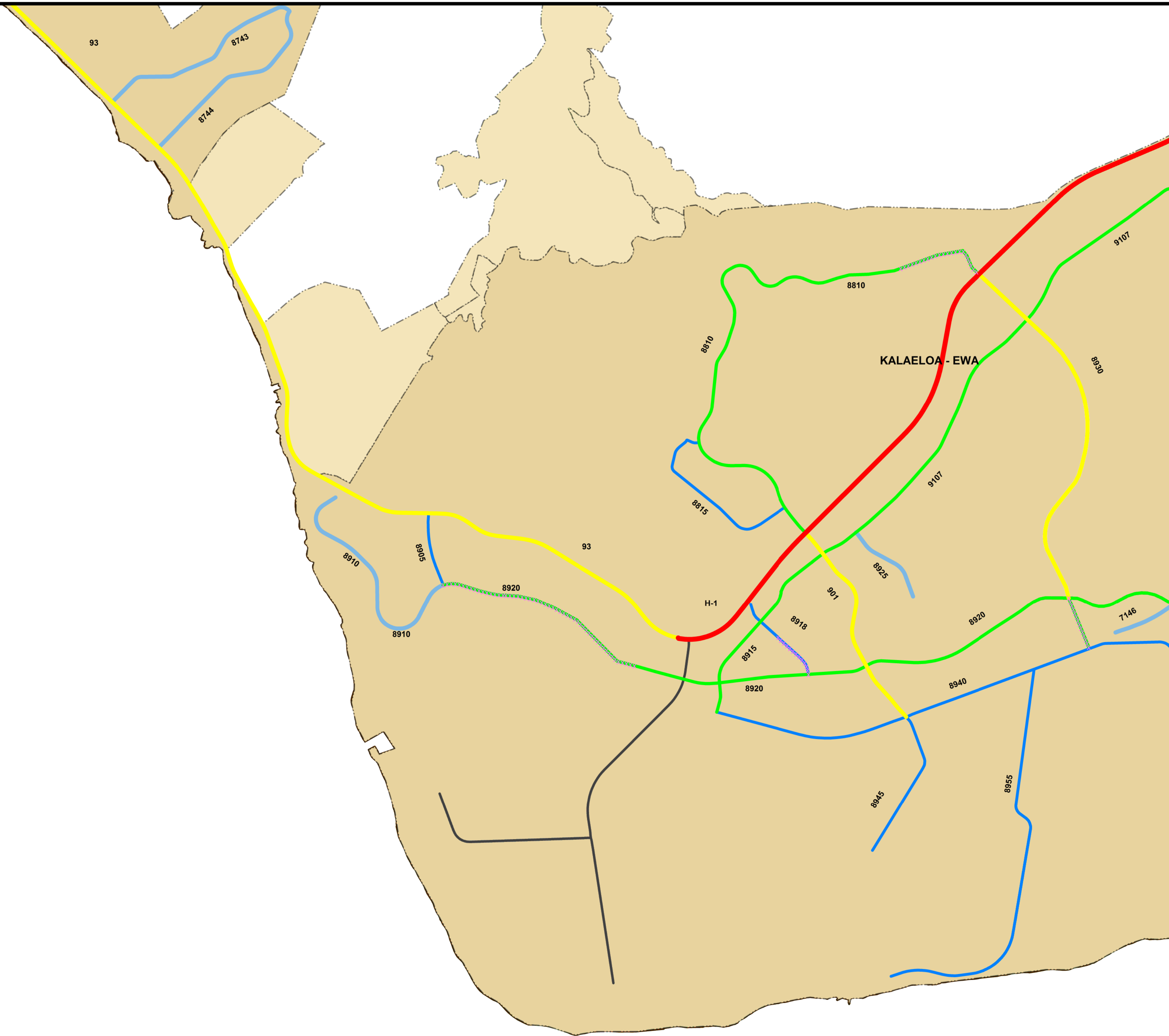
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

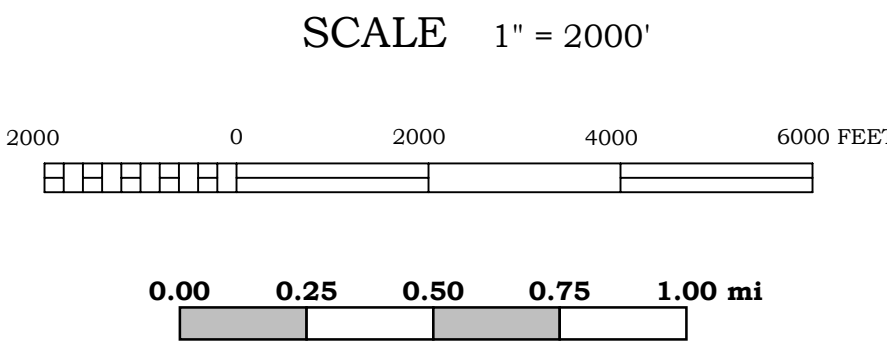
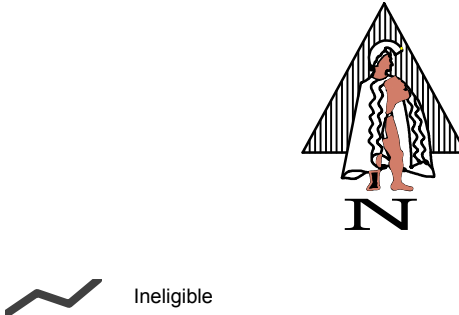
PREPARED BY THE
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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

INSET 8

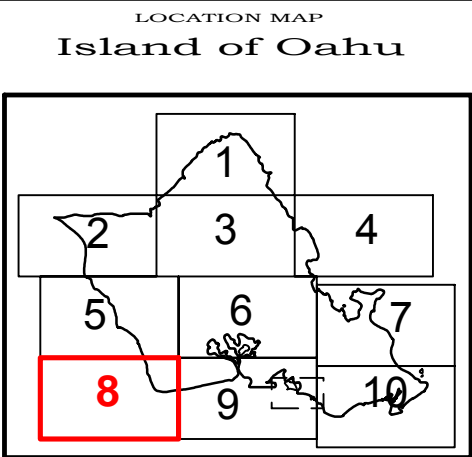


Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector

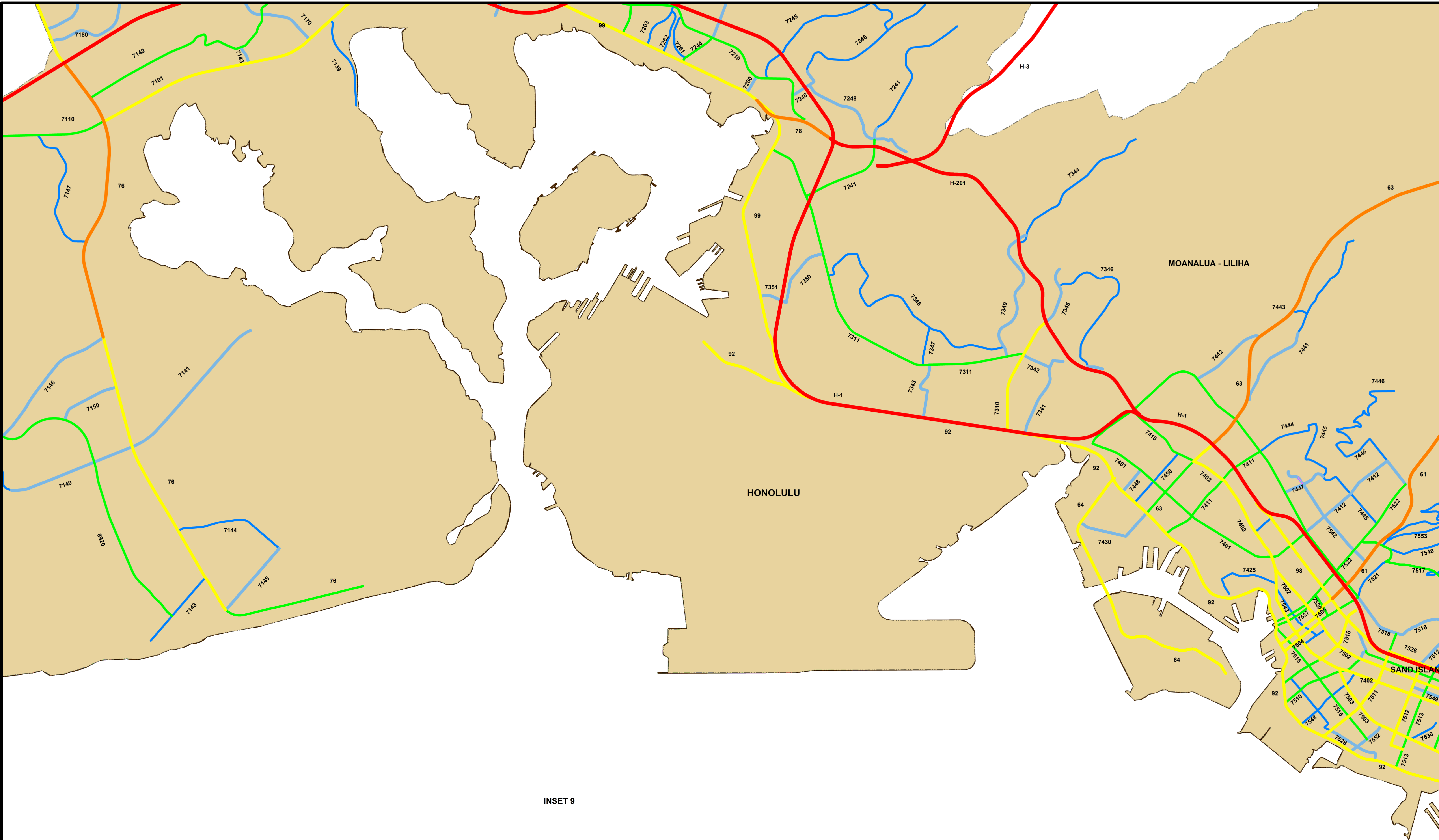


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xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x
xxxxxxx	x



HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

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FEDERAL HIGHWAY ADMINISTRATION



Legend

	Rural Principal Arterial - Other		Urban Principal Arterial - Interstate
	Rural Minor Arterial		Urban Principal Arterial - Freeways/Expressways
	Rural Major Collector		Urban Principal Arterial - Other
	Rural Minor Collector		Urban Minor Arterial
	Proposed / Committed / Under Construction		Urban Major Collector
	Urban Areas		Urban Minor Collector

SCALE 1" = 2000'

2000 0 2000 4000 6000 FEET

0.00 0.25 0.50 0.75 1.00 mi

LOCATION MAP
Island of Oahu

HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

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FEDERAL HIGHWAY ADMINISTRATION

2013



WAIMANALO - KAHALA

INSET 10

Legend

	Rural Principal Arterial - Other		Urban Principal Arterial - Interstate
	Rural Minor Arterial		Urban Principal Arterial - Freeways/Expressways
	Rural Major Collector		Urban Principal Arterial - Other
	Rural Minor Collector		Urban Minor Arterial
	Proposed / Committed / Under Construction		Urban Major Collector
	Urban Areas		Urban Minor Collector

SCALE 1" = 2000'

2000 0 2000 4000 6000 FEET

0.00 0.25 0.50 0.75 1.00 mi

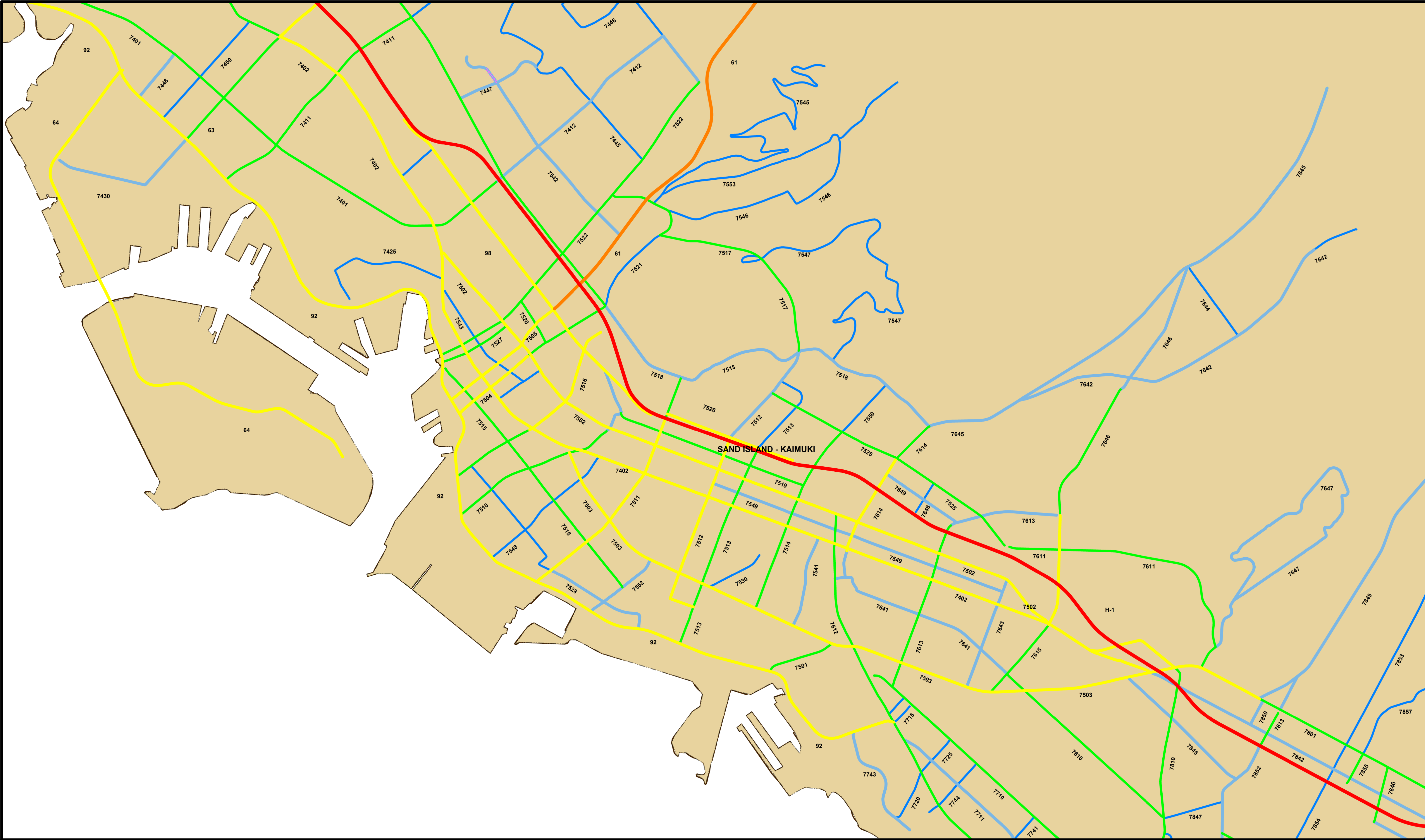
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LOCATION MAP
Island of Oahu

HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

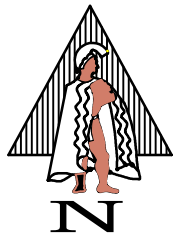
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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

2013

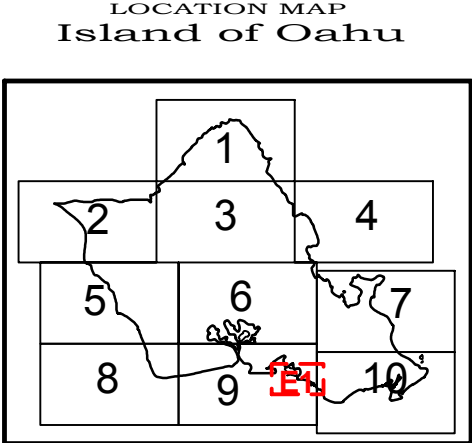


Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector

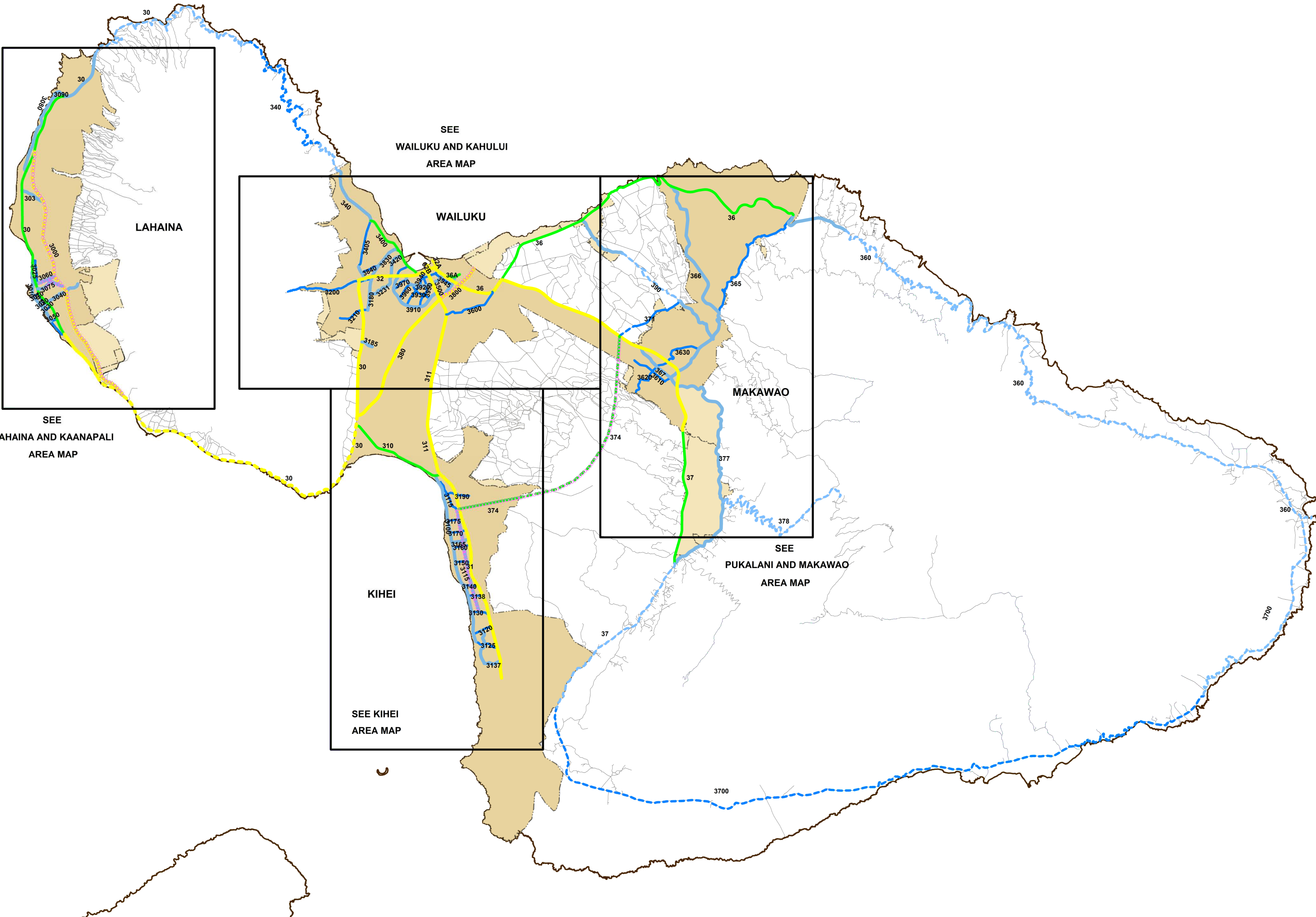


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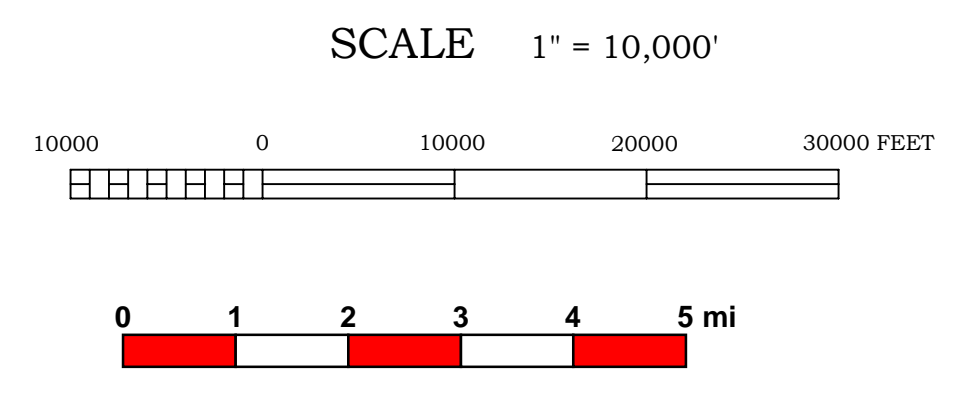
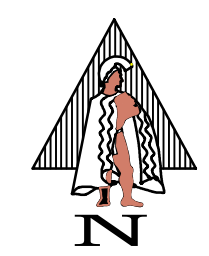
HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF OAHU

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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



Legend

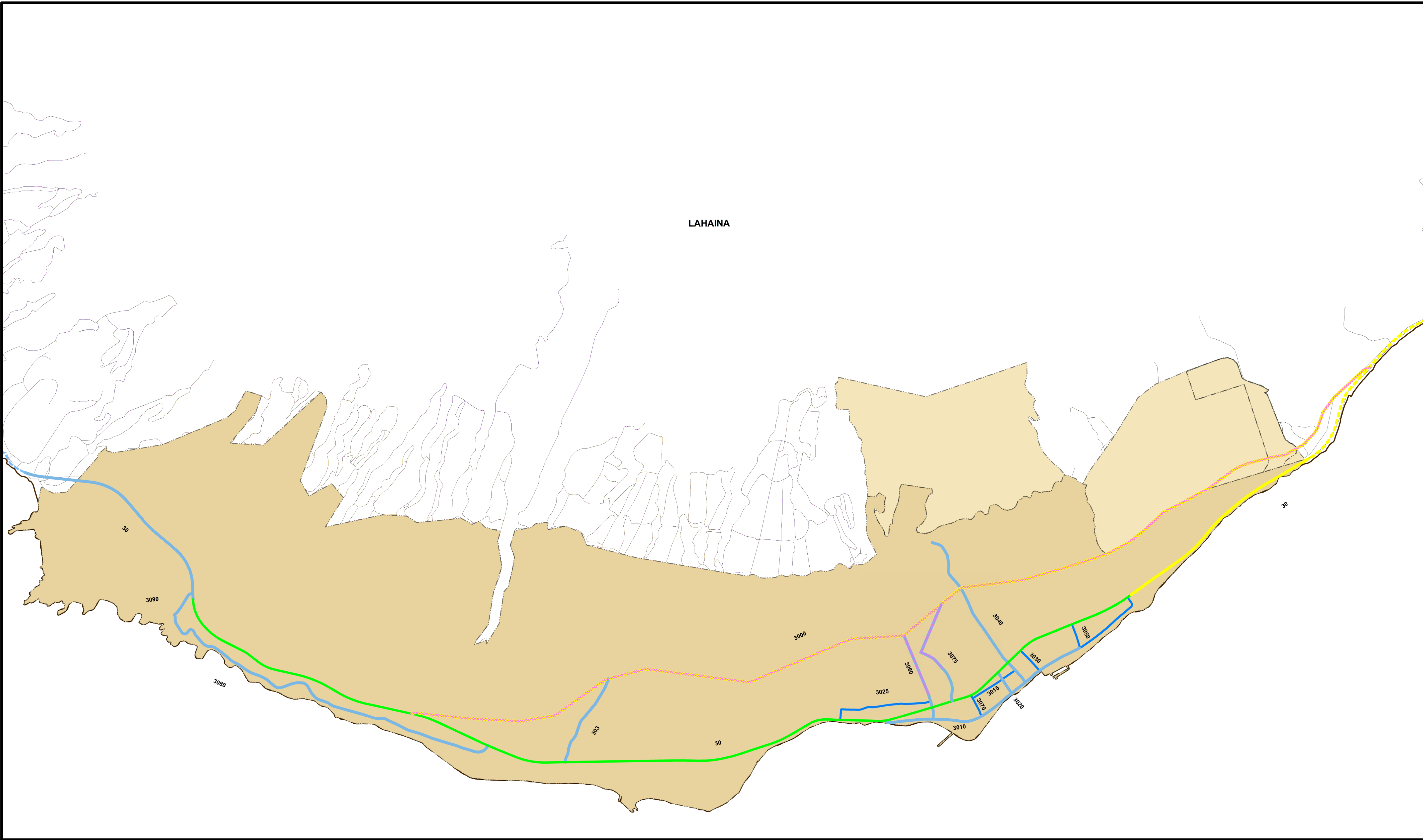
- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



DATE	REVISIONS
xxxxxxx	x
xxxxxxx	x
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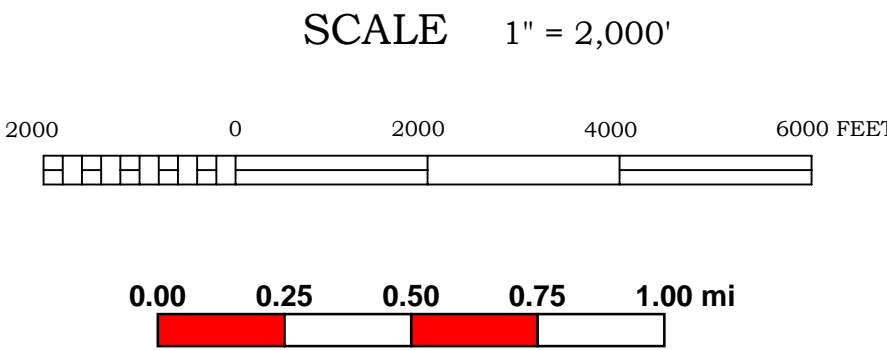
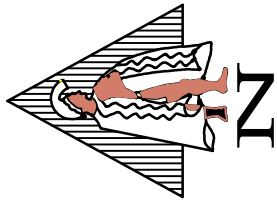
HIGHWAY FUNCTIONAL CLASSIFICATION MAP
KEY TO SHEETS
ISLAND OF MAUI

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HIGHWAYS DIVISION
HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
2013

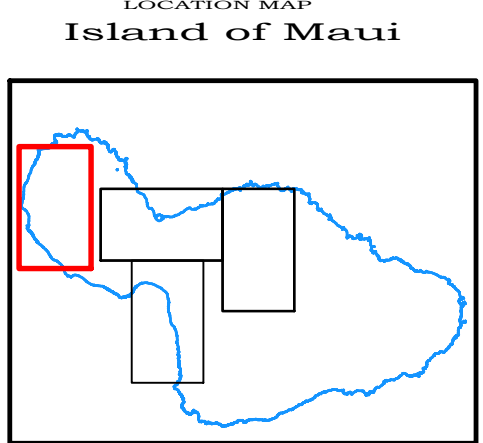


Legend

- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



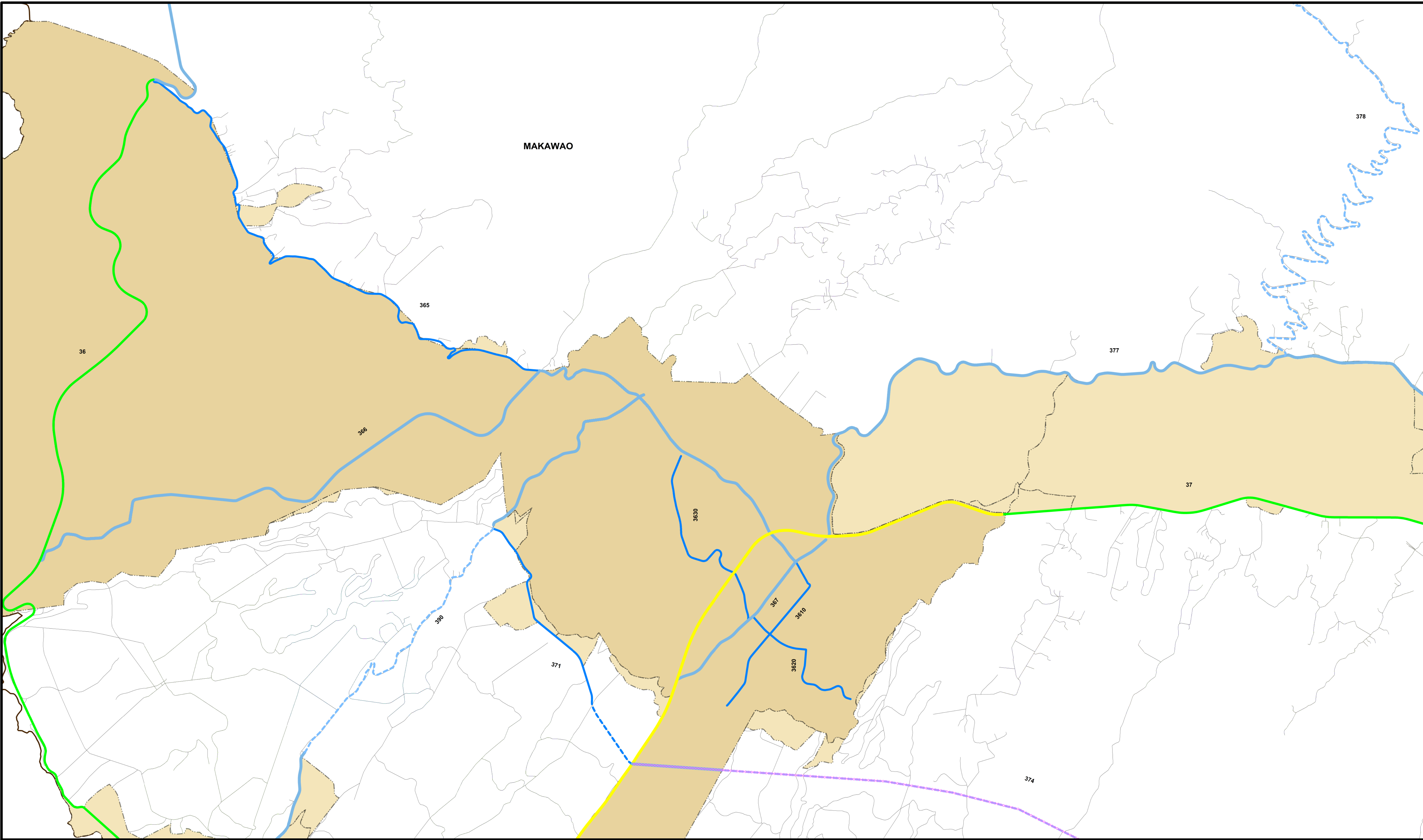
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

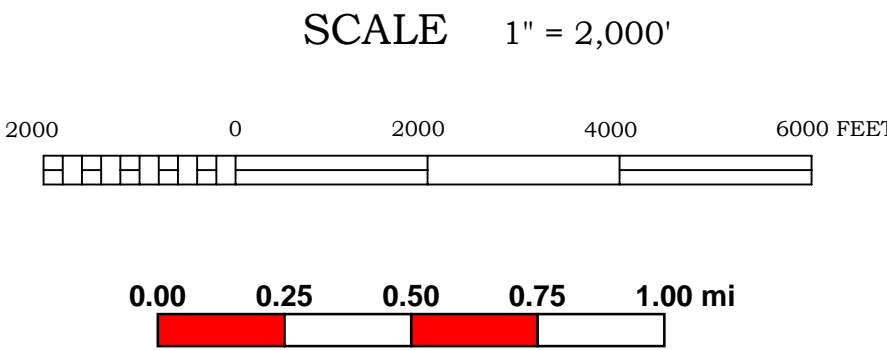
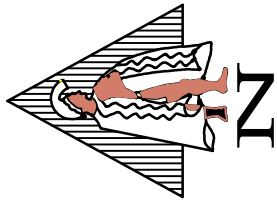
LAHAINA

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
2013

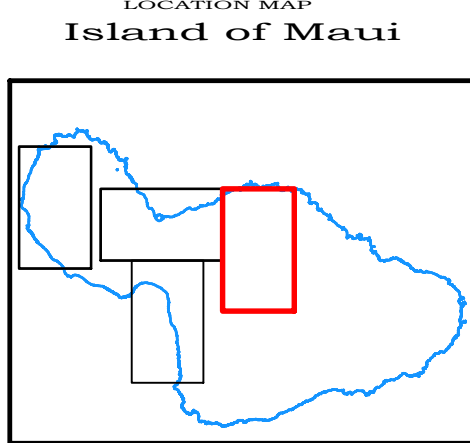


Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector

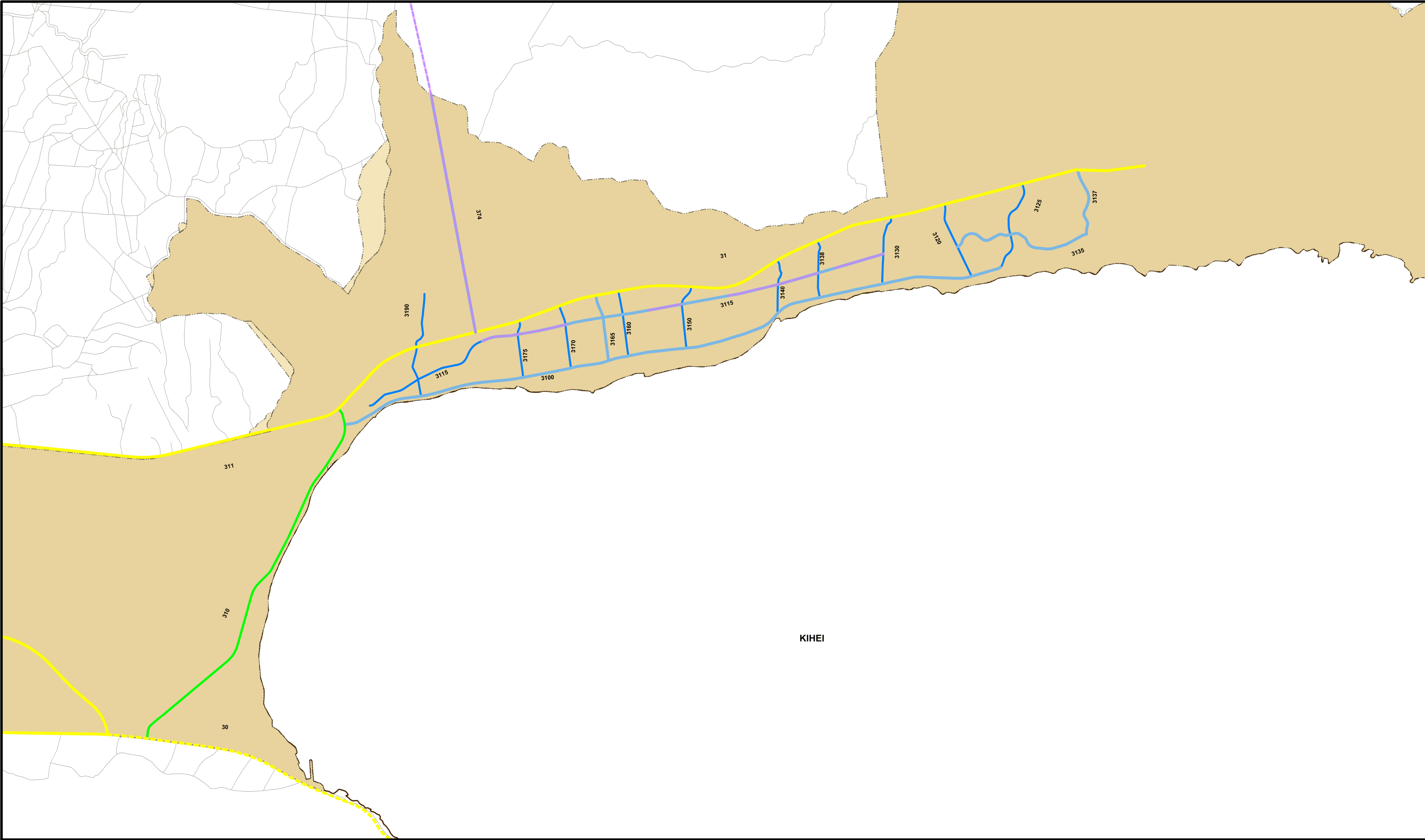


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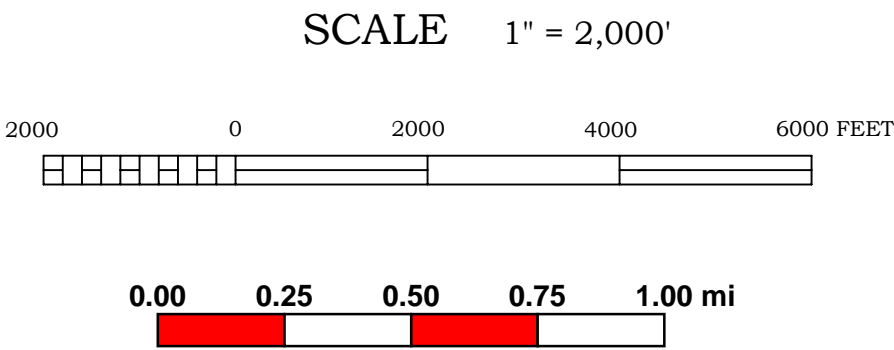
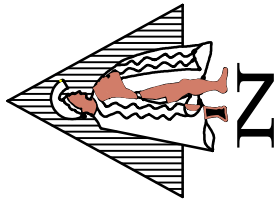
HIGHWAY FUNCTIONAL CLASSIFICATION MAP
PUKALANI AND MAKAWAO

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FEDERAL HIGHWAY ADMINISTRATION
2013

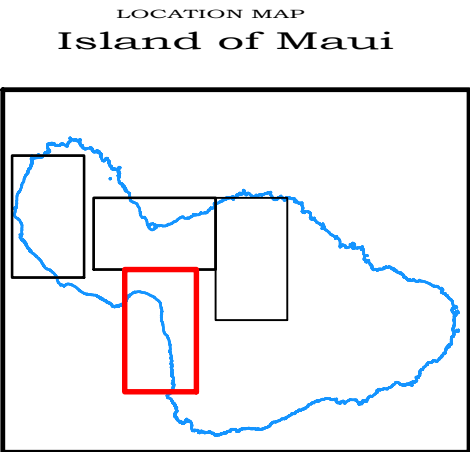


Legend

-  Rural Principal Arterial - Other
-  Rural Minor Arterial
-  Rural Major Collector
-  Rural Minor Collector
-  Proposed / Committed / Under Construction
-  Urban Areas
-  Urban Principal Arterial - Interstate
-  Urban Principal Arterial - Freeways/Expressways
-  Urban Principal Arterial - Other
-  Urban Minor Arterial
-  Urban Major Collector
-  Urban Minor Collector



DATE	REVISIONS
xxxxxxx	x
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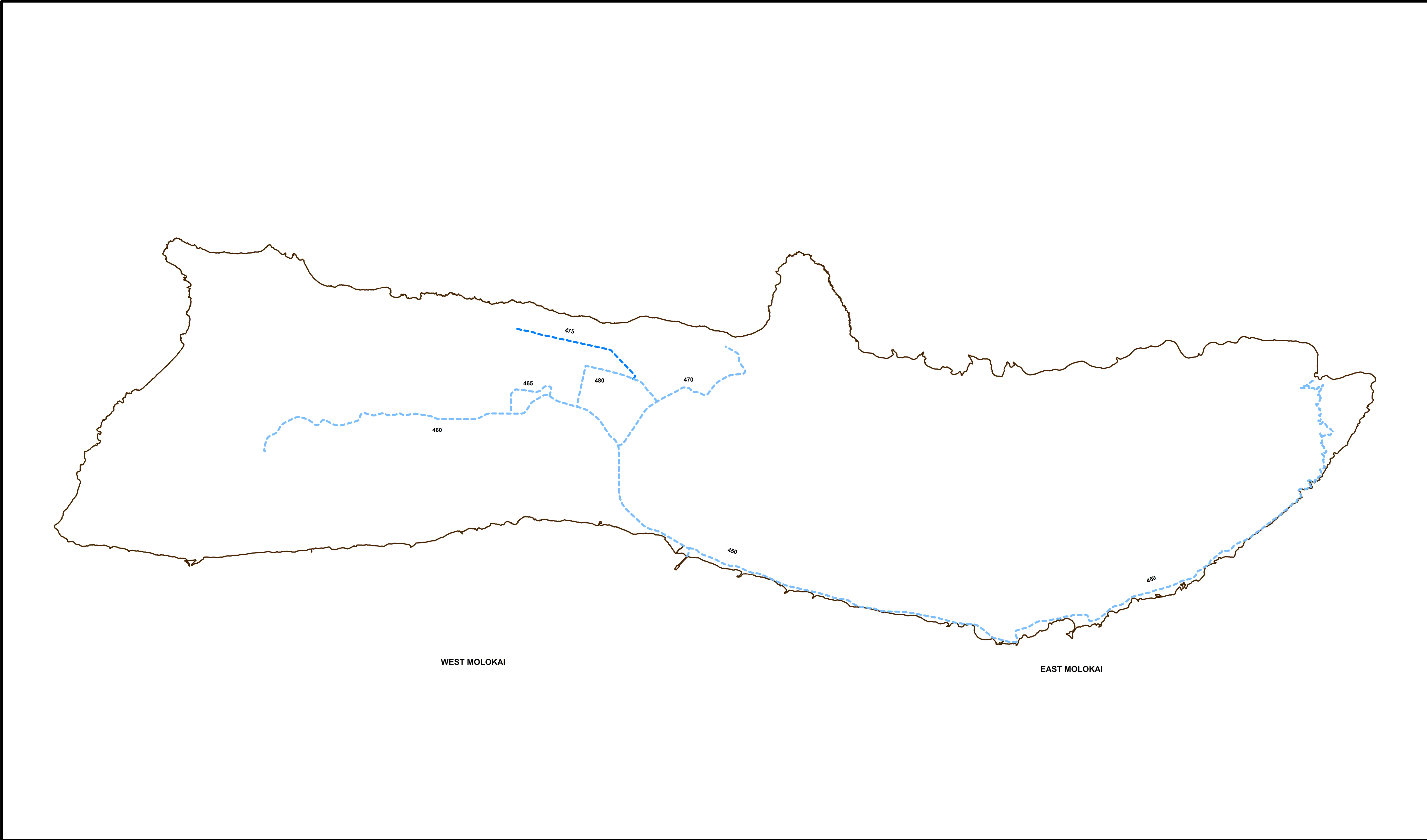


HIGHWAY FUNCTIONAL CLASSIFICATION MAP

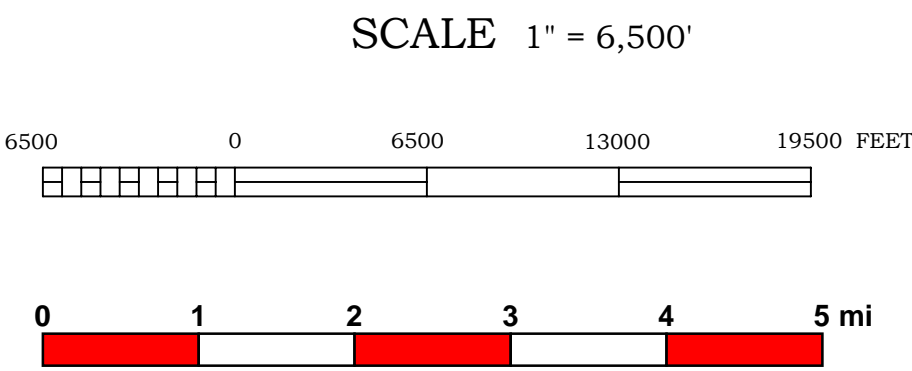
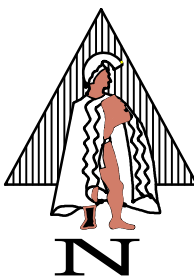
KIHEI

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HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

2013



- Legend
- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |

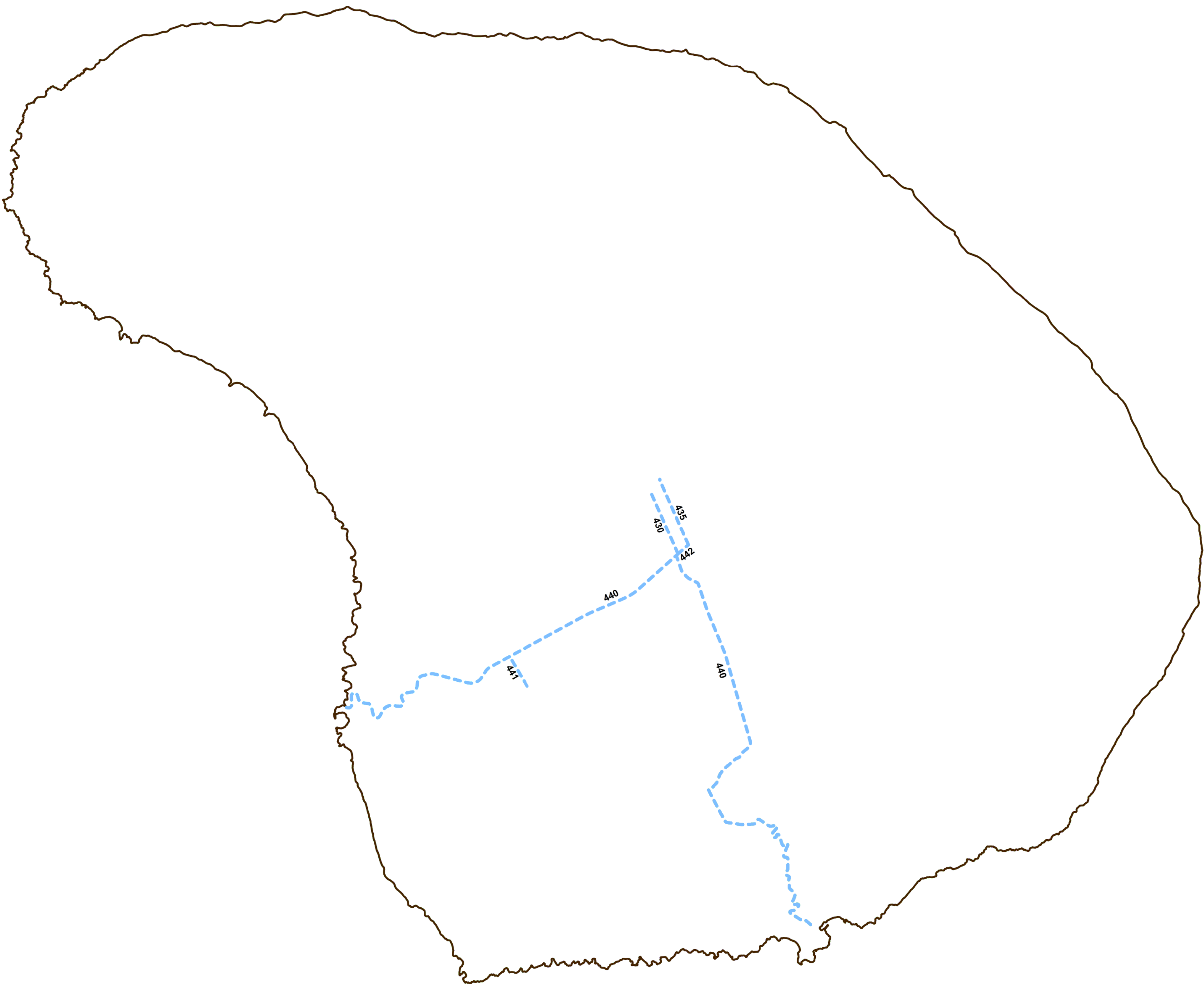


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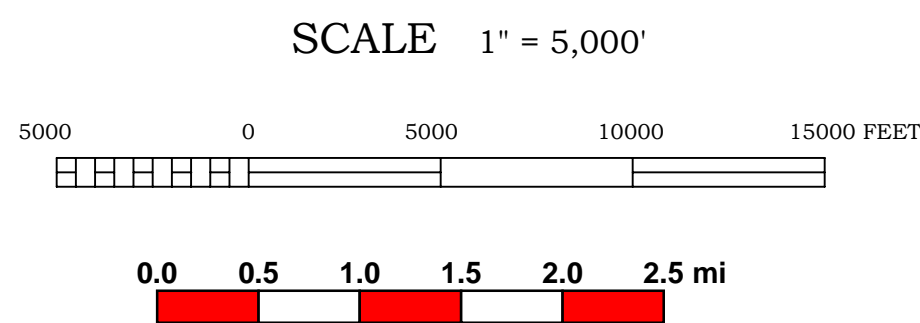
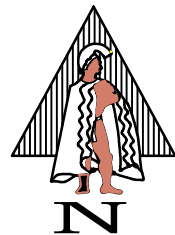
HIGHWAY FUNCTIONAL CLASSIFICATION MAP

ISLAND OF MOLOKAI

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HIGHWAY PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
2013



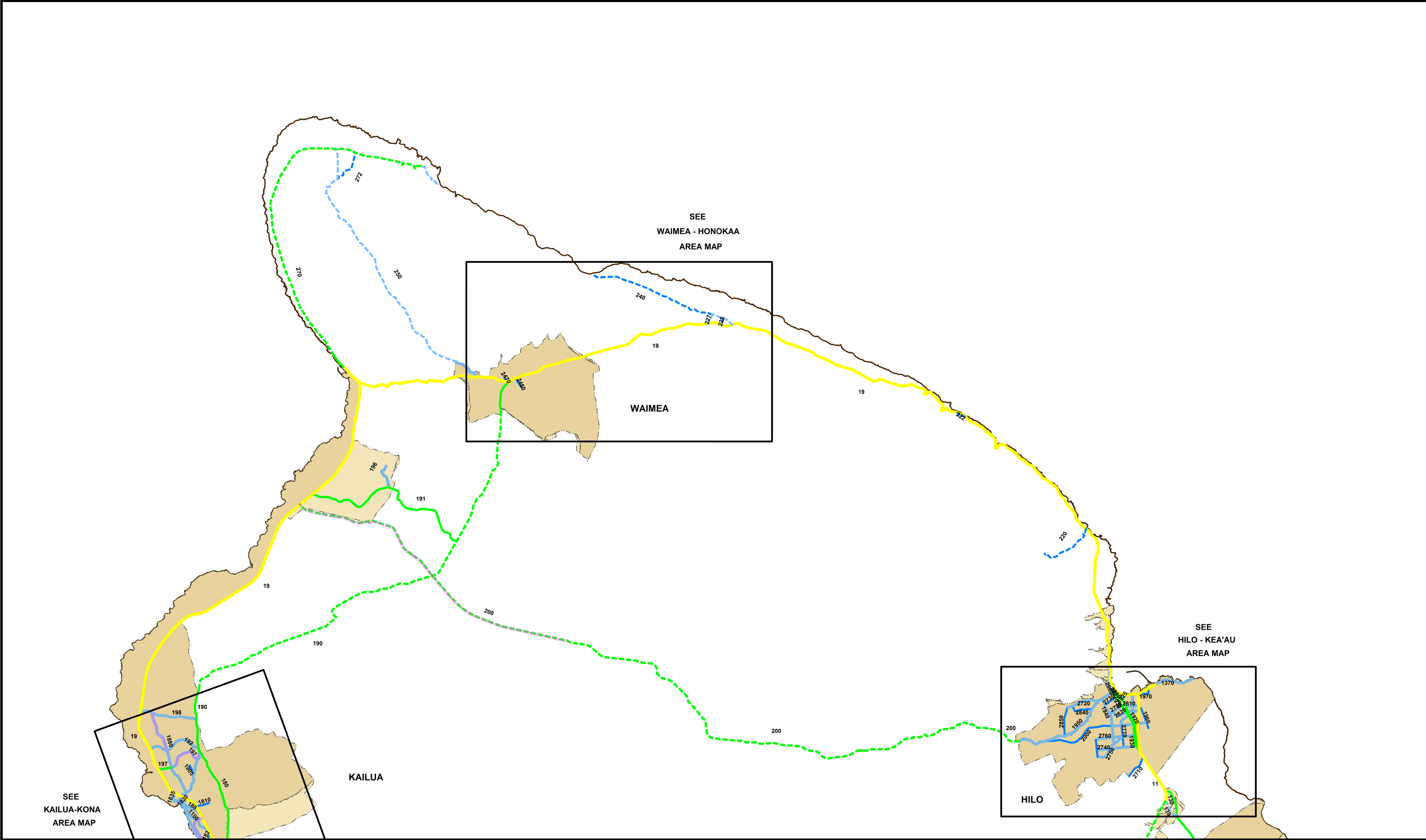
- Legend
- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



DATE	REVISIONS
xxxxxxx	x
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP
ISLAND OF LANAI

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IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



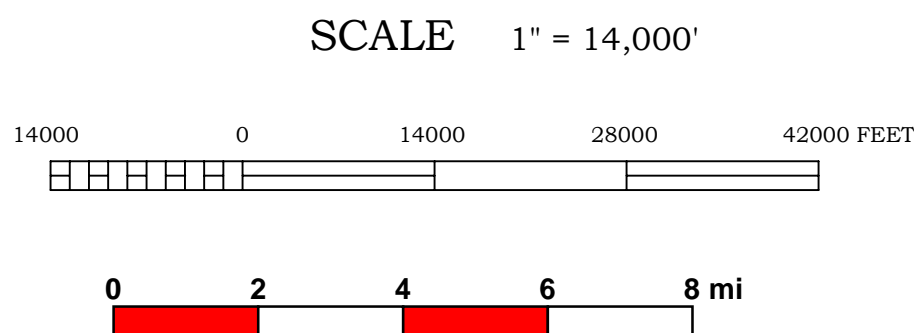
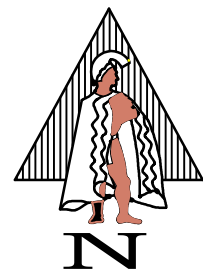
SEE
KAILUA-KONA
AREA MAP

SEE
WAIMEA - HONOKAA
AREA MAP

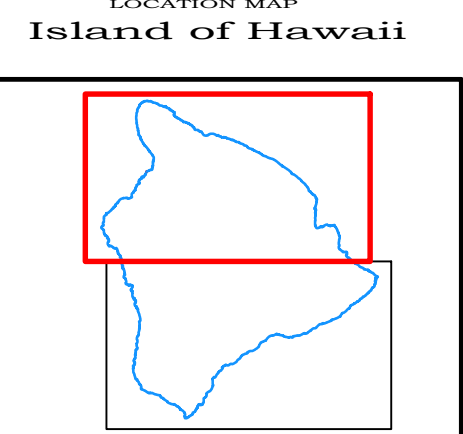
SEE
HILO - KEA'AU
AREA MAP

Legend

- Rural Principal Arterial - Other
- Rural Minor Arterial
- Rural Major Collector
- Rural Minor Collector
- Proposed / Committed / Under Construction
- Urban Areas
- Urban Principal Arterial - Interstate
- Urban Principal Arterial - Freeways/Expressways
- Urban Principal Arterial - Other
- Urban Minor Arterial
- Urban Major Collector
- Urban Minor Collector



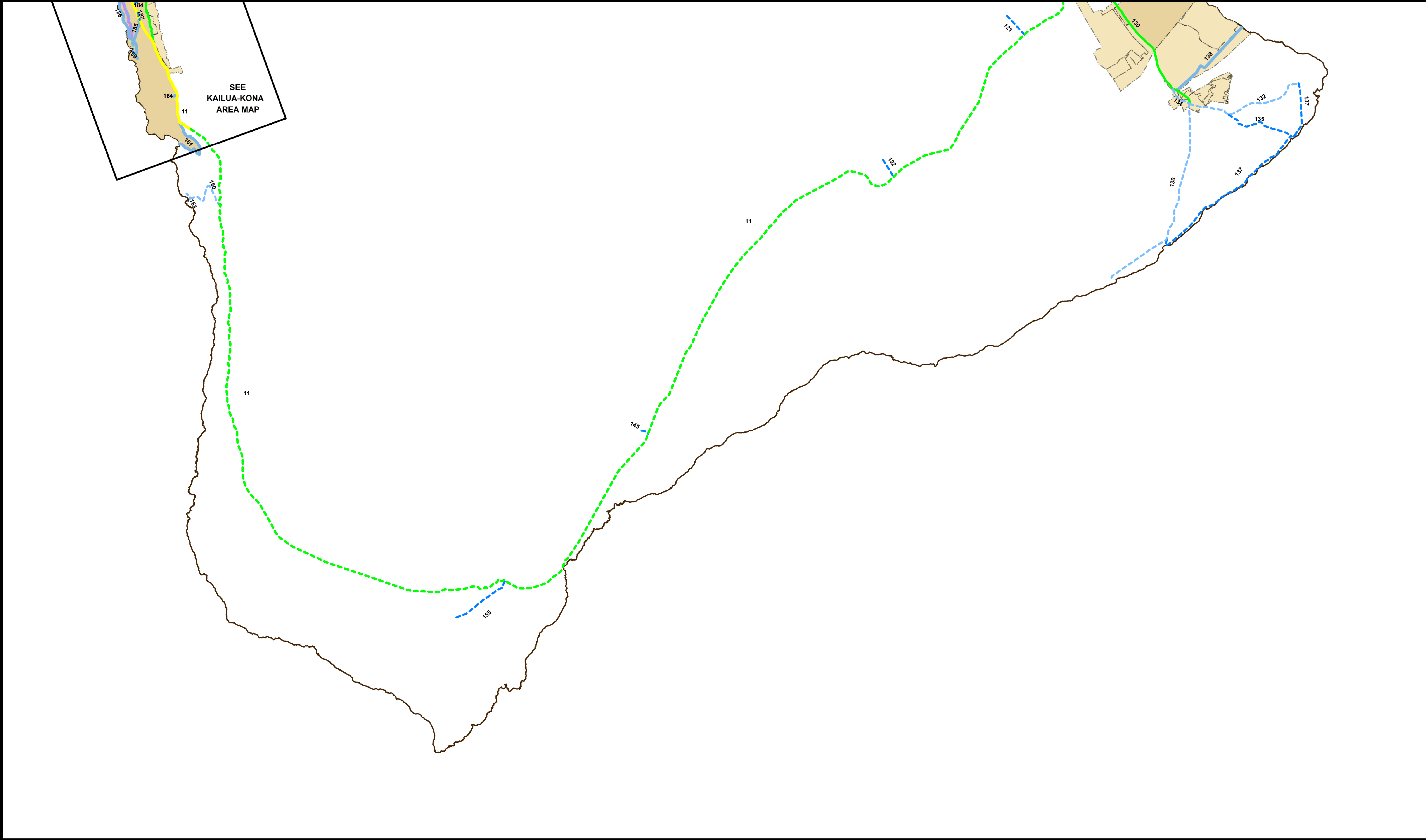
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

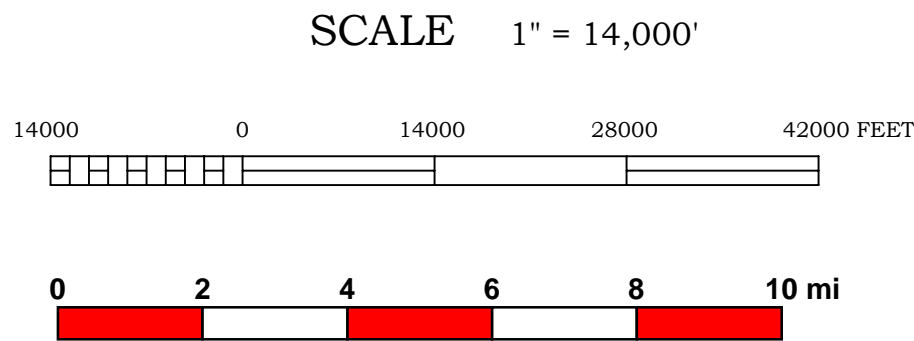
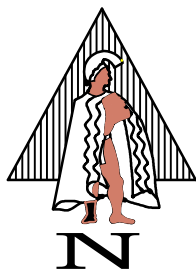
ISLAND OF HAWAII

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FEDERAL HIGHWAY ADMINISTRATION
2013

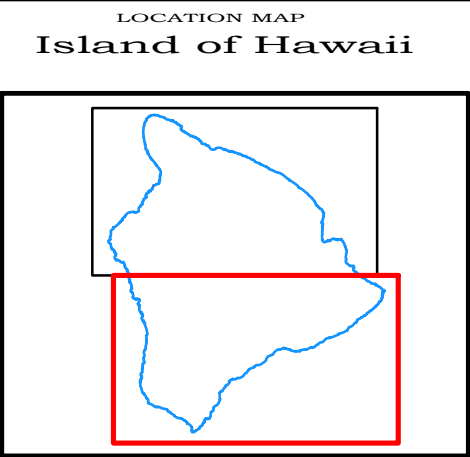


Legend

-  Rural Principal Arterial - Other
-  Rural Minor Arterial
-  Rural Major Collector
-  Rural Minor Collector
-  Proposed / Committed / Under Construction
-  Urban Areas
-  Urban Principal Arterial - Interstate
-  Urban Principal Arterial - Freeways/Expressways
-  Urban Principal Arterial - Other
-  Urban Minor Arterial
-  Urban Major Collector
-  Urban Minor Collector



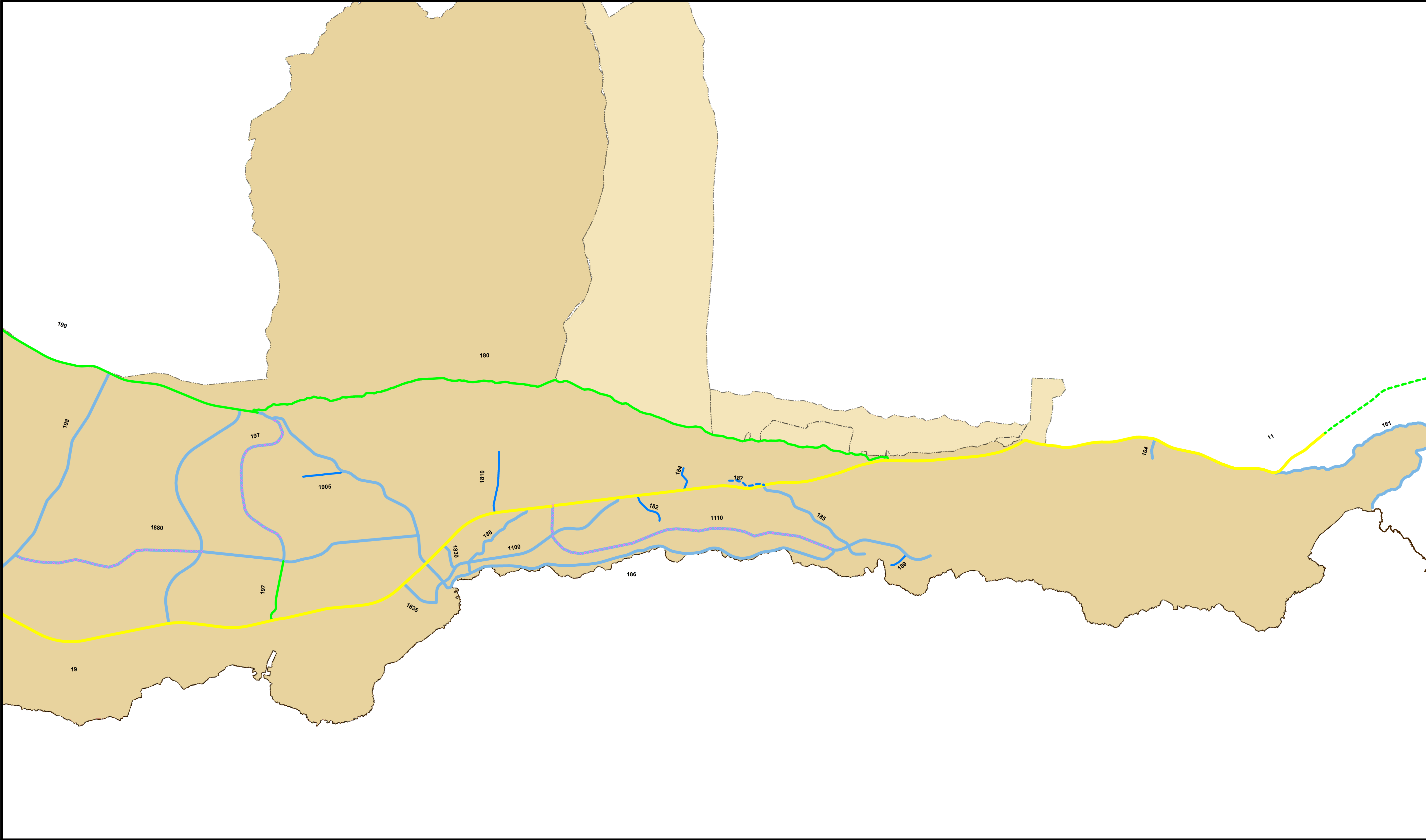
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

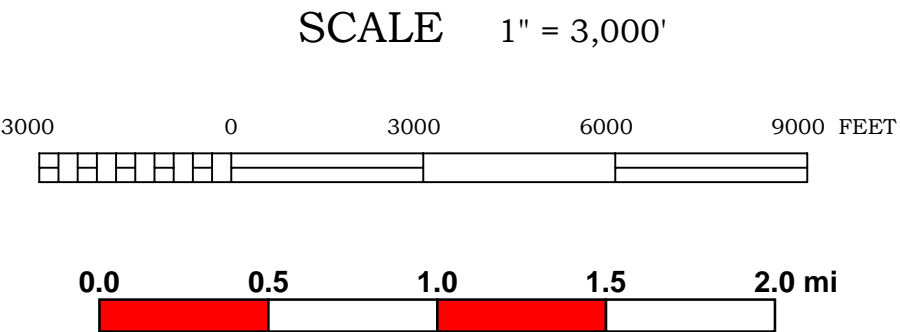
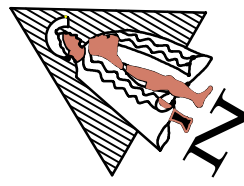
ISLAND OF HAWAII

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FEDERAL HIGHWAY ADMINISTRATION

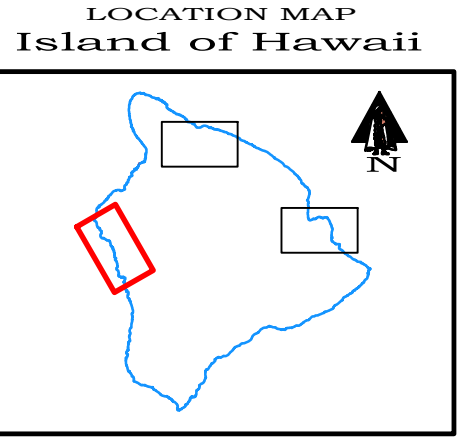


Legend

- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
| | Rural Major Collector | | Urban Principal Arterial - Other |
| | Rural Minor Collector | | Urban Minor Arterial |
| | Proposed / Committed / Under Construction | | Urban Major Collector |
| | Urban Areas | | Urban Minor Collector |



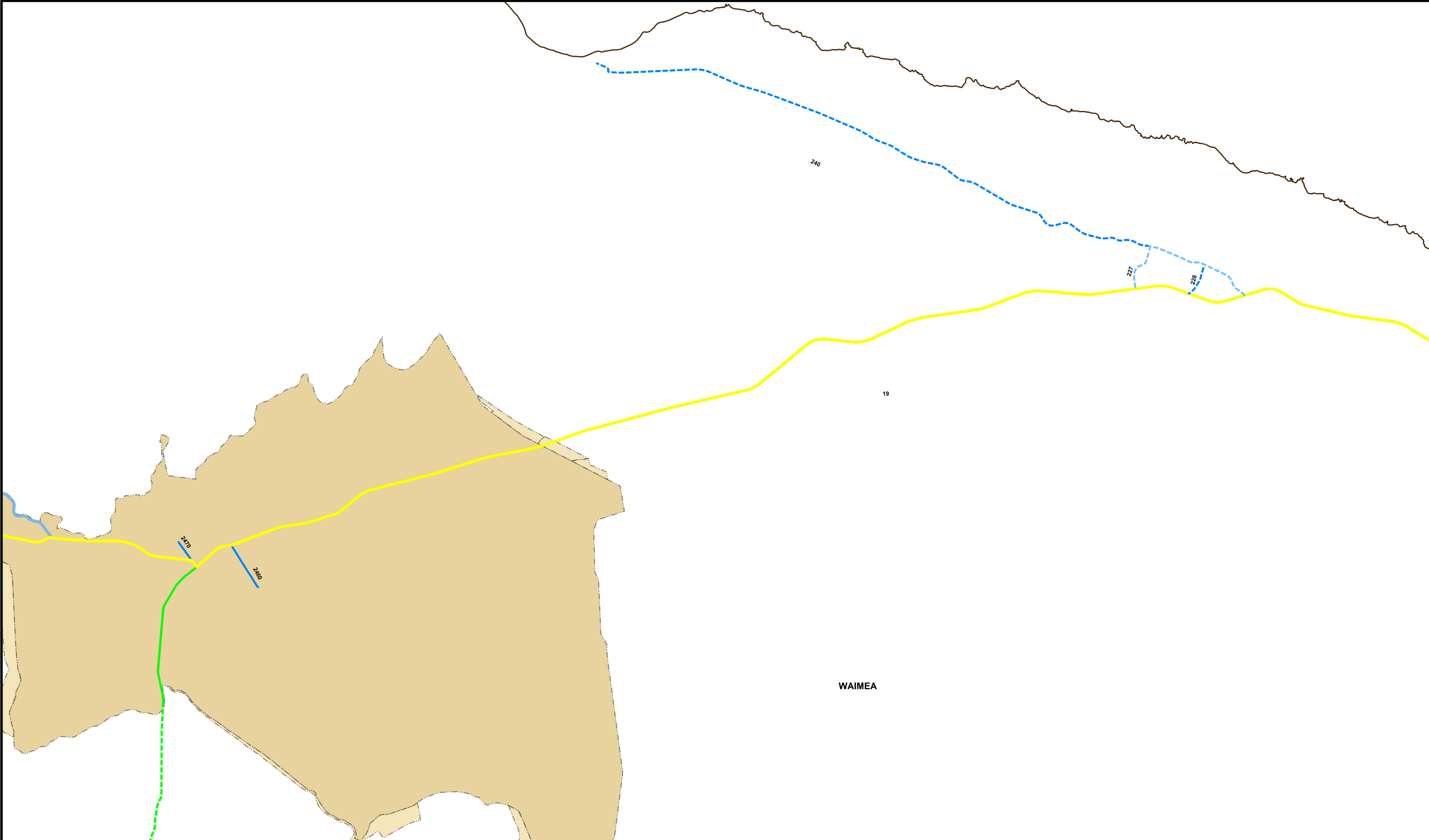
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

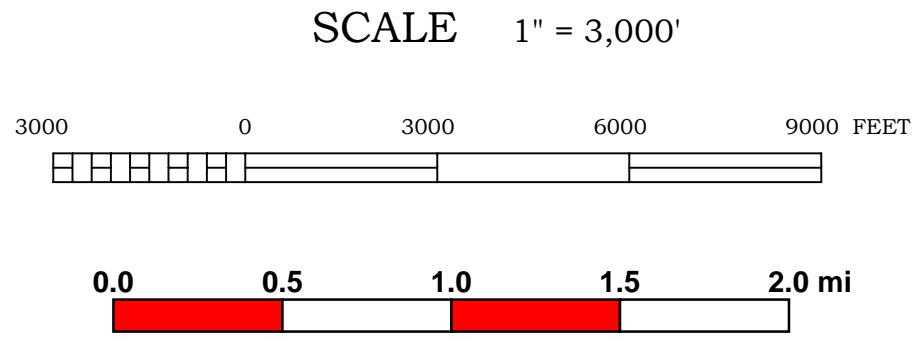
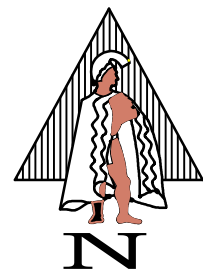
KAILUA-KONA

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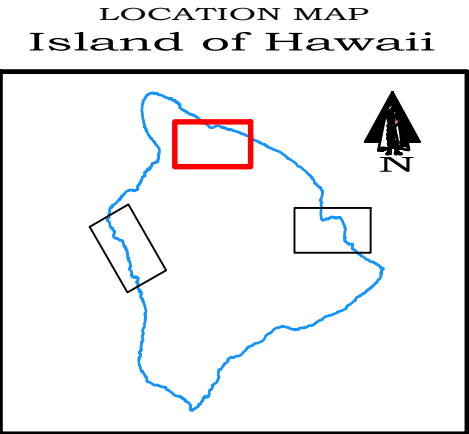


Legend

-  Rural Principal Arterial - Other
-  Rural Minor Arterial
-  Rural Major Collector
-  Rural Minor Collector
-  Proposed / Committed / Under Construction
-  Urban Areas
-  Urban Principal Arterial - Interstate
-  Urban Principal Arterial - Freeways/Expressways
-  Urban Principal Arterial - Other
-  Urban Minor Arterial
-  Urban Major Collector
-  Urban Minor Collector



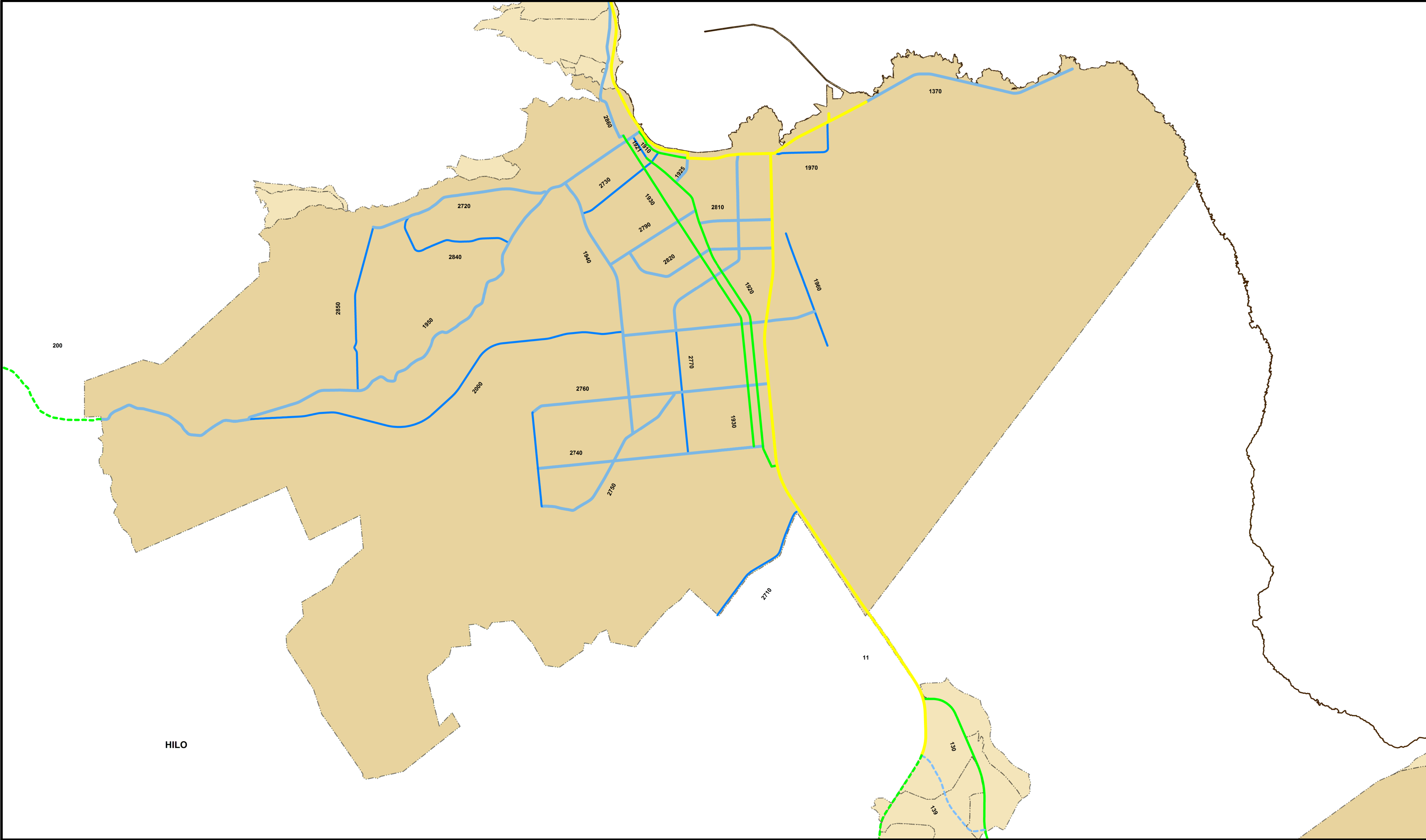
DATE	REVISIONS
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

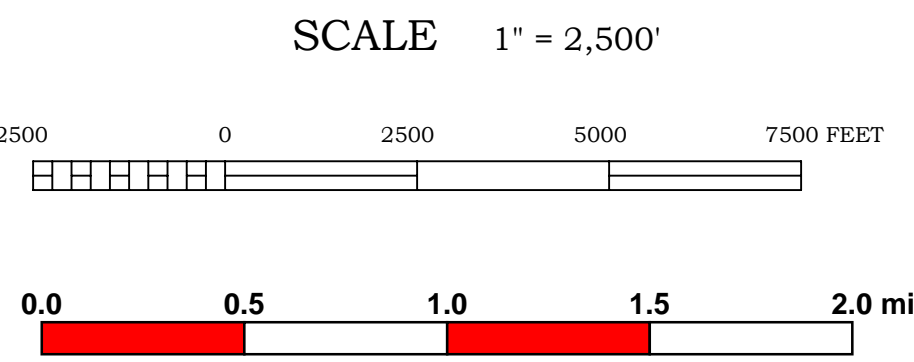
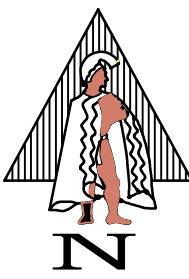
WAIMEA - HONOKAA

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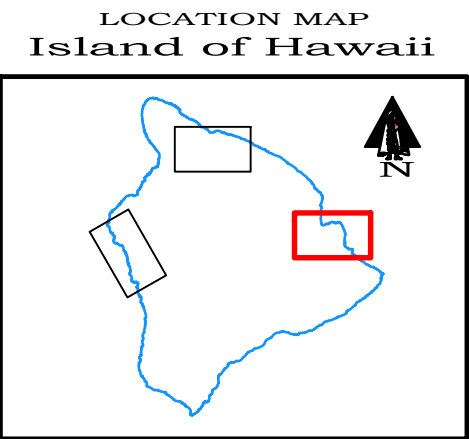


Legend

- | | | | |
|--|---|--|---|
| | Rural Principal Arterial - Other | | Urban Principal Arterial - Interstate |
| | Rural Minor Arterial | | Urban Principal Arterial - Freeways/Expressways |
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DATE	REVISIONS
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HIGHWAY FUNCTIONAL CLASSIFICATION MAP

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