Chapter 6

UNINCORPORATED FRESNO COUNTY

This chapter describes the current status and future plans for biking and walking in the unincorporated areas of Fresno County. Although some information in this chapter also considers the incorporated cities in Fresno County, the chapter is mostly specific to unincorporated Fresno County and does not include data for those cities. Status and plan information relevant to the entire county, including unincorporated and incorporated areas, is presented in Chapters 1 to 5.

Unincorporated areas of Fresno County have been grouped for analysis as follows:

- unincorporated communities not adjacent to incorporated cities;
- unincorporated communities adjacent to or surrounded by incorporated cities; and
- connections between communities, both incorporated and unincorporated.

Fresno County includes communities of all sizes. The analysis of unincorporated communities for this plan primarily focuses on the largest communities where investments can benefit the most people.

RELATIONSHIP TO COUNTY PLANS AND POLICIES

In addition to the regional, state, and federal plans and policies discussed in Chapter 2, Relationship to Other Plans and Policies, the following County plans and policies are relevant to biking and walking in Fresno County:

County of Fresno General Plan (2000)

The County adopted its current General Plan in 2000. This plan establishes guidance for future planning in the County extending to a horizon year of 2020. The primary elements relevant to bicycle and pedestrian planning are the Transportation and Circulation Element and the Open Space and Conservation Element.

Transportation and Circulation Element

The General Plan Transportation and Circulation Element identifies goals, policies, and implementation measures for streets and highways, transit, transportation systems management, bicycle facilities, rail transportation, and air transportation.

One goal relates directly to bicycling:

- Goal TR-D: To plan and provide a safe, continuous, and easily accessible bikeway system that facilitates the use of the bicycle as a viable alternative transportation mode and as a form of recreation and exercise."

Several policies are related to bicycling and walking:

- Policy T R-C.3: The County shall work with the Cities of Fresno and Clovis to encourage new urban development within the FCMA to provide appropriate on-site facilities that encourage employees to use alternative transportation modes as air quality and transportation mitigation measures. The type of facilities may include bicycle parking, shower and locker facilities, and convenient access to transit, depending on the development size and location.
- Policy T R-D.1: The County shall implement a system of recreational, commuter, and inter-community bicycle routes in accordance with the Regional Bikeway Plan described in the Circulation Diagram and Standards section and depicted in Figure TR-2. The plan designates bikeways between cities and unincorporated

communities, to and near major traffic generators such as recreational areas, parks of regional significance, and other major public facilities, and along recreational routes.

- Policy T R-D.2: The County shall give priority to bikeways that will serve the most cyclists and destinations of greatest demand and to bikeways that close gaps in the existing system.
- Policy T R-D.3: The County shall implement Regional Bikeways Plan routes as Class II facilities unless otherwise designated.
- Policy T R-D.4: The County shall develop bikeways in conjunction with street improvement projects occurring along streets and roads designated on the Regional Bikeways Plan map.
- Policy T R-D.5: The County shall require that adequate rights-of-way or easements are provided for designated bikeways or trails as a condition of land development.
- Policy T R-D.6: The County should promote bicycle safety programs through education and awareness programs aimed at both cyclists and motorists.
- Policy T R-D.7: The County shall construct and maintain bikeways to minimize conflicts between bicyclists and motorists.
- Policy T R-D.8: The County shall support development of facilities that help link bicycling with other modes of transportation.

Open Space and Conservation Element

The Open Space and Conservation Element includes a section that seeks to enhance recreational opportunities in the county by encouraging the development of a countywide trail system, as expressed in the following goal:

- Goal OS-I: To develop a system of hiking, riding, and bicycling trails and paths suitable for active recreation and transportation and circulation.

The following policies support this goal:

- Policy OS-I.1: The County shall develop a countywide Recreational Trail Master Plan, integrated with existing County facilities, similar facilities in cities and adjoining counties, and on State and Federal land. The recreational trail system shall be oriented to providing safe, off-street access from urban areas to regional recreation facilities of countywide importance.
- Policy OS-I.2: The County shall develop recreational trails in County recreation areas.
- Policy OS-I.3: The County shall encourage the preservation or advance acquisition of desirable trail routes, including linear open space along rail corridors and other public easements.
- Policy OS-I.4: The County shall require that adequate rights-of-way or easements are provided for designated trails or bikeways as a condition of land development approvals.
- Policy OS-I.5: The County shall provide for the separation of different types of users in multiple-purpose trail corridors when desirable for safety reasons or trail type needs.
- Policy OS-I.6: The County shall coordinate development of its Recreational Trail Master Plan with the San Joaquin River Conservancy concerning the proposed multipurpose trail between Highway 99 and Friant Dam in the San Joaquin River Parkway.
- Policy OS-I.7: The County shall maintain and enforce regulations prohibiting the use of all County-developed and maintained recreational trails by motorized vehicles, except for maintenance vehicles.
- Policy OS-I.8: The County shall use the following principles in the siting of recreational trails:
    a. Recreational trail corridors should connect urban areas to regional recreational amenities, follow corridors of scenic or aesthetic interest, or provide loop connection to such routes or amenities;
    b. Recreational trails should be located where motor vehicle crossings can be eliminated or minimized;
    c. Recreational trails should provide for connectivity to other transportation modes such as bus stops, train stations and park-and-ride sites when feasible to enhance intermodal transportation opportunities; and
    d. Recreational trails should provide for connectivity to the on-street walkway and bikeway network when feasible to enhance non-motorized transportation opportunities.
    e. Recreational trails shall whenever possible make maximum use of existing public land and rights-of-way.
- Policy OS-I.9: The County shall follow design guidelines published by the California Department of Transportation (Caltrans) in the Highway

Design Manual, Chapter 1000 (Bikeway Planning and Design), in designing and constructing recreational trails.

- Policy OS-I.10: Pending adoption of a Recreational Trail Master Plan, the County shall review development proposals for consistency with and accessibility to the trails in the Conceptual Recreational Trail Corridor Map.
- Policy OS-I.11: The County shall seek the provision of recreation trails in future foothill and mountain developments.
- Policy OS-I.12: The County shall encourage communication and cooperation with the cities of the county, the Fresno County Council of Governments, and other agencies in the county by referring proposed trail projects for review and comment.
- Policy OS-I.13: The County shall actively seek all possible financial assistance for planning, acquisition, construction, and maintenance of trails when such funding does not divert funds available for preservation and improvement of the road system.
- Policy OS-I.14: The Fresno County General Services Department shall maintain trails located within County parks, along but separated from the road way, along irrigation canals, flood control channels, abandoned railroad rights-of-way or easements, utility easements, and along floodplains.
- Policy OS-I.15: The Fresno County Public Works Department shall maintain recreational trails located within the road right-of-way as integral parts of the roadway.
- Policy OS-I.16: The County shall encourage public/private partnerships to implement and maintain trails.

Regional Bicycle & Recreational Trails Master Plan (2013)

The Fresno County Regional Bicycle & Recreational Trails Master Plan (BRTMP) was adopted by the Board of Supervisors in 2013. The following goals are directly related to the ATP:

- Goal BP-A: Develop a safe and convenient, interregional system of bikeways throughout Fresno County.
- Goal BP-B: Promote bicycling as an alternate form of transportation and integrate bicycling with other forms of transportation, including public transit to major destination areas.
- Goal BP-C: Increase Fresno County bicycle transportation in urban areas so that the number of bicycle commuter trips doubles by the year 2035.
- Goal BP-D: Improve bicycling safety, reduce bicycle-related collisions, establish educational opportunities aimed at all levels of bicyclists, and promote safer driving behaviors among cyclists and motorists.
- Goal BP-E: Develop and fund a bicycle program at the County and budget to implement improvements.

The plan estimated that there were 90 bicycle parking locations in the county. Rural bicycle parking locations are primarily at educational facilities. A few bicycle parking racks, located along popular rural bike routes, have been donated by local bicycle clubs.

County of Fresno Improvement Standards (2016)

The County of Fresno Improvement Standards were updated in 2016. Section 7 covers Bicycle Transportation and Trails.

County of Fresno Standard Drawings (2016)

The County of Fresno Standard Drawings define standards applicable to sidewalks and bike lanes. These drawings include:

- ST1 to ST9: Street Cross Sections
- ST6: Bike Lane Geometric Section, Urban Areas
- ST30: Local Residential Driveway Approach, Monolithic Sidewalk
- ST34: Alley Approach, Commercial & Residential Sidewalks
- ST38: Sidewalks, Commercial & Residential
- ST39: Concrete Sidewalk Pattern
- ST43 and ST44: Curb Return Ramps

Fresno County Code, California (2016)

The County Code is a compilation of all the County of Fresno's ordinances, codified into regulations. Key sections applicable to bicycles and pedestrians are listed below:

11.40.050 - Bicycle paths—Misuse prohibited

It is unlawful for any person to drive or ride any animal or vehicle other than a bicycle propelled by human power upon any public bicycle path when such path is designated exclusively as such by appropriate signs at either end thereof and all places where such path intersects a public road.

11.40.060 - Bridle paths and equestrian ways—Vehicles prohibited on

It is unlawful for any person to operate any vehicle of any kind upon a bridle path or equestrian way where such path is maintained as such by the county or other public agency or is dedicated as such on a subdivision map and accepted by the county. The prohibition of this section shall not apply to multiple purpose paths or until appropriate signs have been erected at each end of the path or way and at all places where such intersects a public road. It shall be the duty of the public works department to erect and maintain appropriate signs as in this section referred to if the path is maintained by the county or dedicated and accepted on a subdivision map, otherwise by the public agency maintaining the path.

17.48.240 - Pedestrian walkways and bikeways

Pedestrian walkways or bikeways may be required where needed for:

A. Access to schools, playgrounds or parks, shopping centers or other public areas;

B. Traffic safety;

C. Access through unusually long blocks;

D. Access to public areas shown on an approved general plan.

Dedications for bicycle paths may only be required for subdivisions which have more than two hundred lots on the final map.

Crosswalk lacking adequate sidewalks and curbs in Riverdale.

EXISTING CONDITIONS

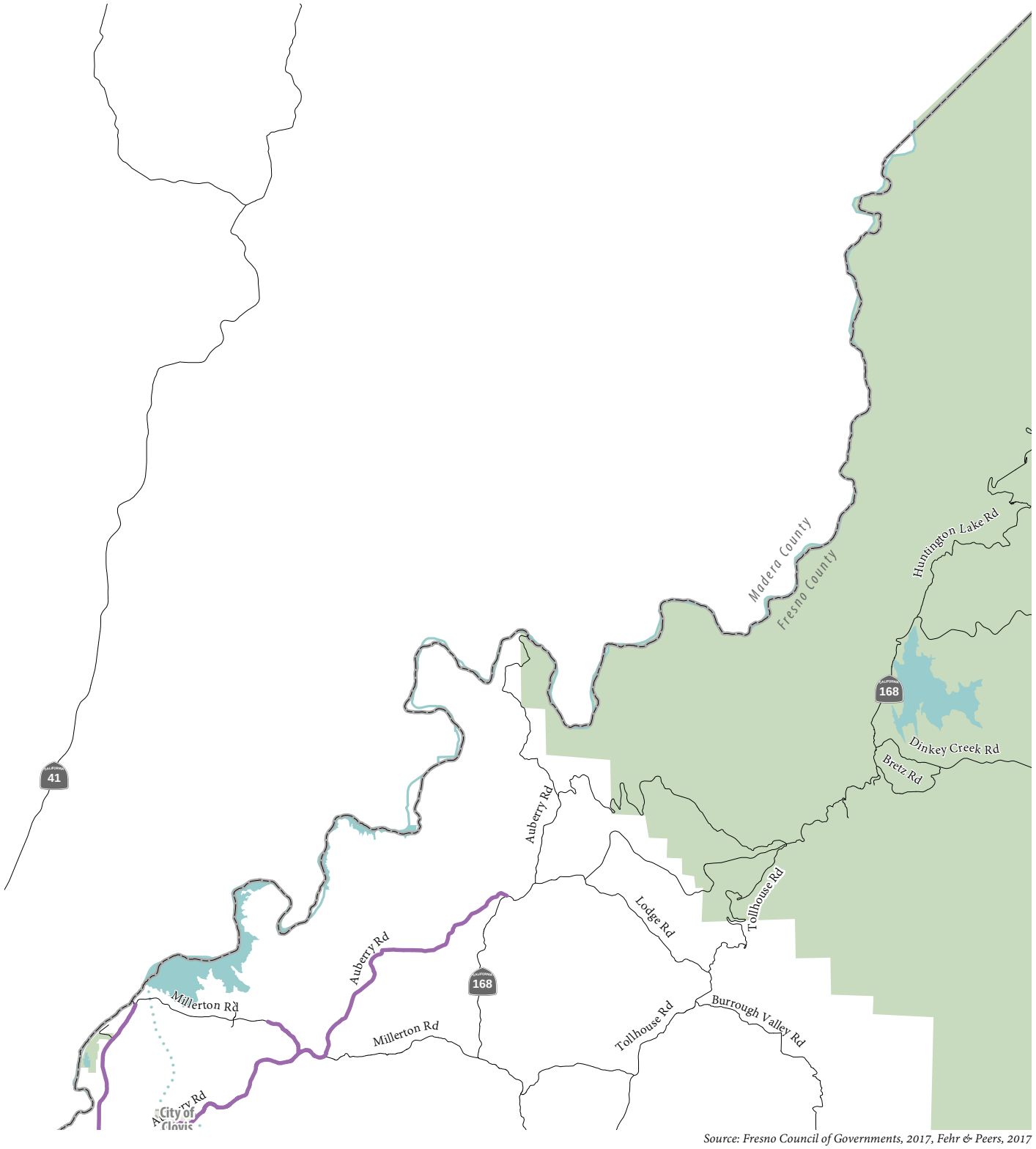
There are currently 132.0 miles of bicycle facilities and 76.1 miles of sidewalks within the unincorporated areas of Fresno County. These facilities are summarized in Table 6-1 and depicted in Figures 6-1 to 6-5. Most roads within the county were developed without bicycle facilities, and many unincorporated communities within the County were developed without sidewalks. In communities with sidewalks, gaps frequently exist.

Table 6-1: Unincorporated Fresno County Existing Facilities

Type	Miles
Sidewalks	76.1
Class I Bike Paths	5.0
Class II Bike Lanes	138.2
Class III Bike Routes	0.0
Class IV Separated Bikeway	0.0

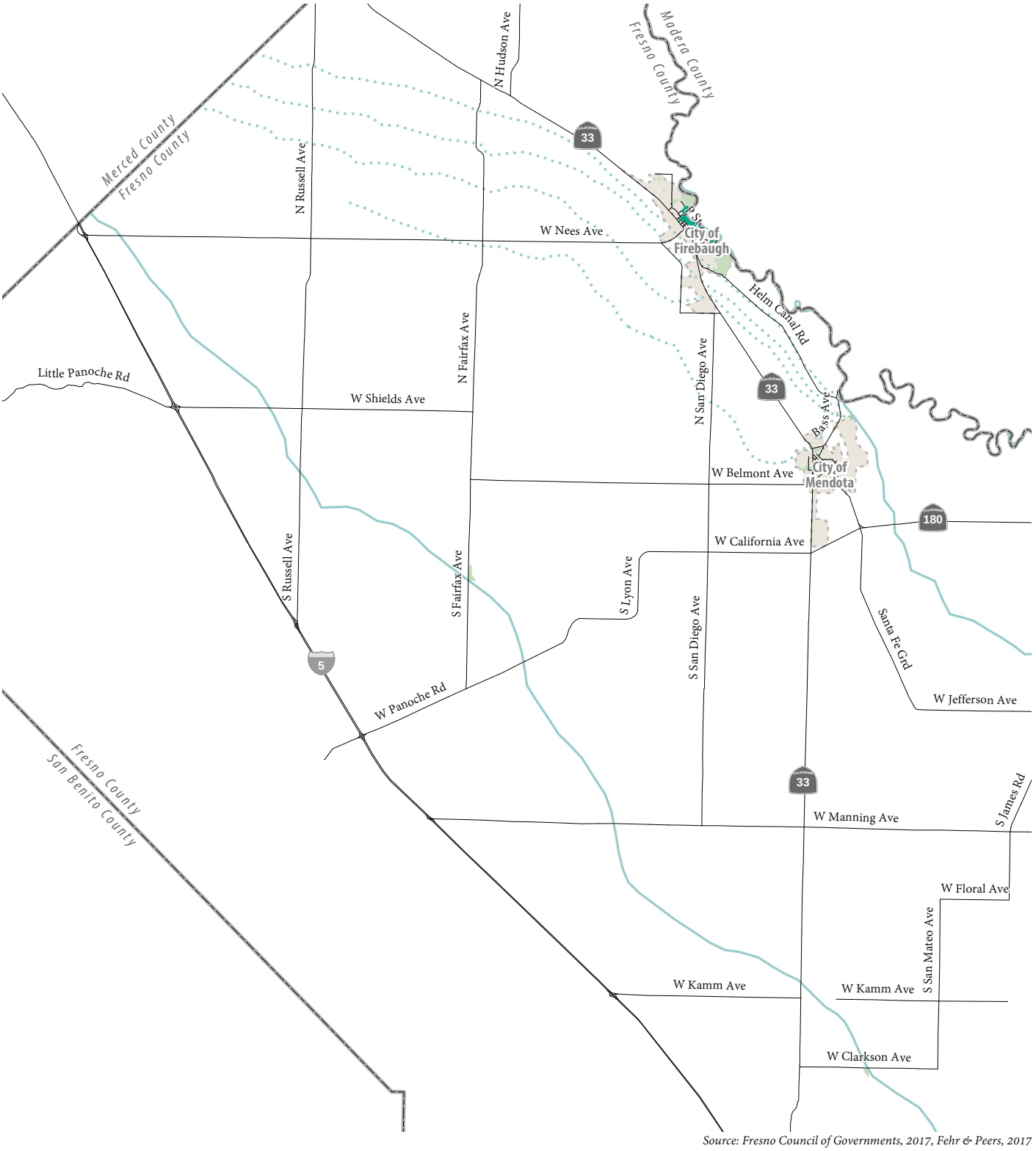
Sources: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-1: Fresno County Existing Bicycle Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-1: Fresno County Existing Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)

Waterway
Canal
Park/Open Space

City Limits
County Boundary

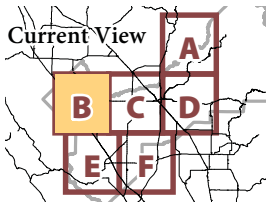
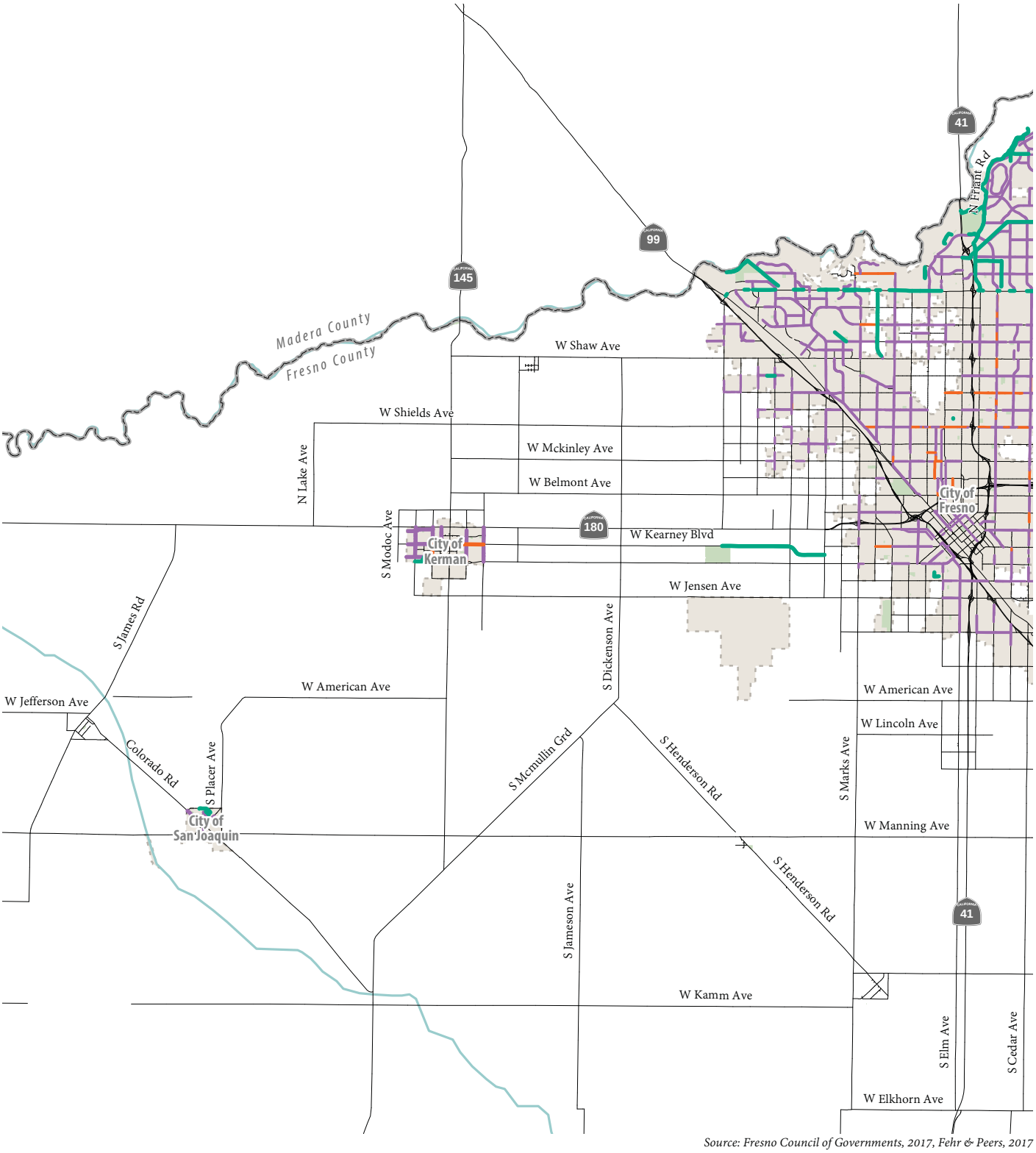
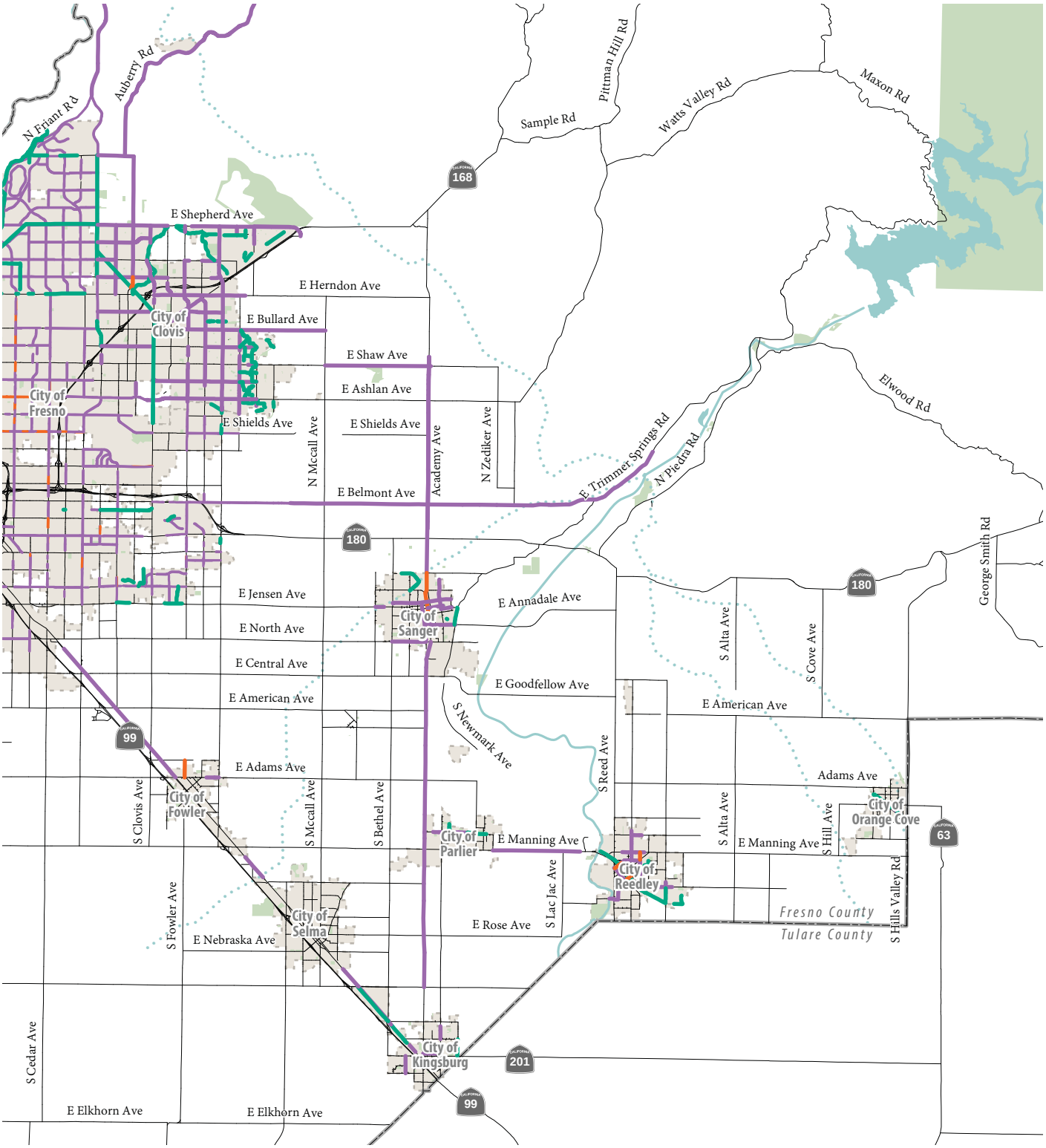


Figure 6-1: Fresno County Existing Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-1: Fresno County Existing Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)

Waterway
Canal
Park/Open Space

City Limits
County Boundary

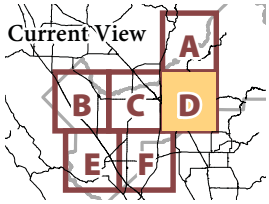
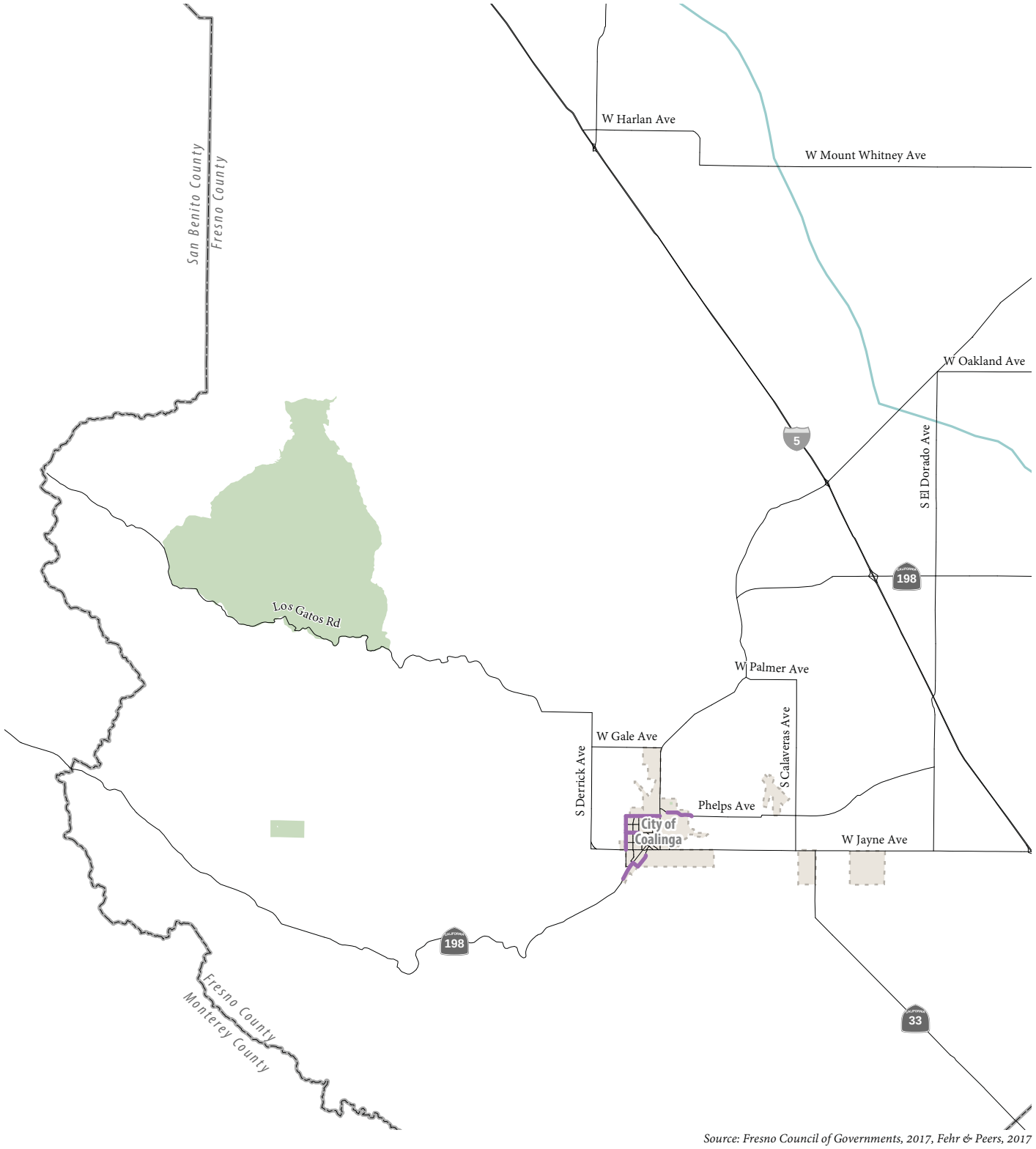


Figure 6-1: Fresno County Existing Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)

Waterway
Canal
Park/Open Space

City Limits
County Boundary

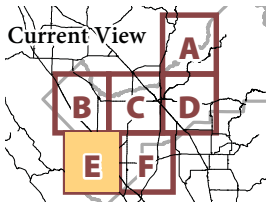


Figure 6-1: Fresno County Existing Bicycle Facilities (continued)

Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)

Waterway
Canal
Park/Open Space

City Limits
County Boundary

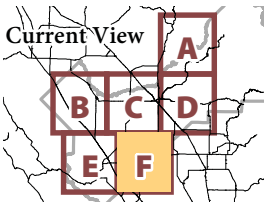
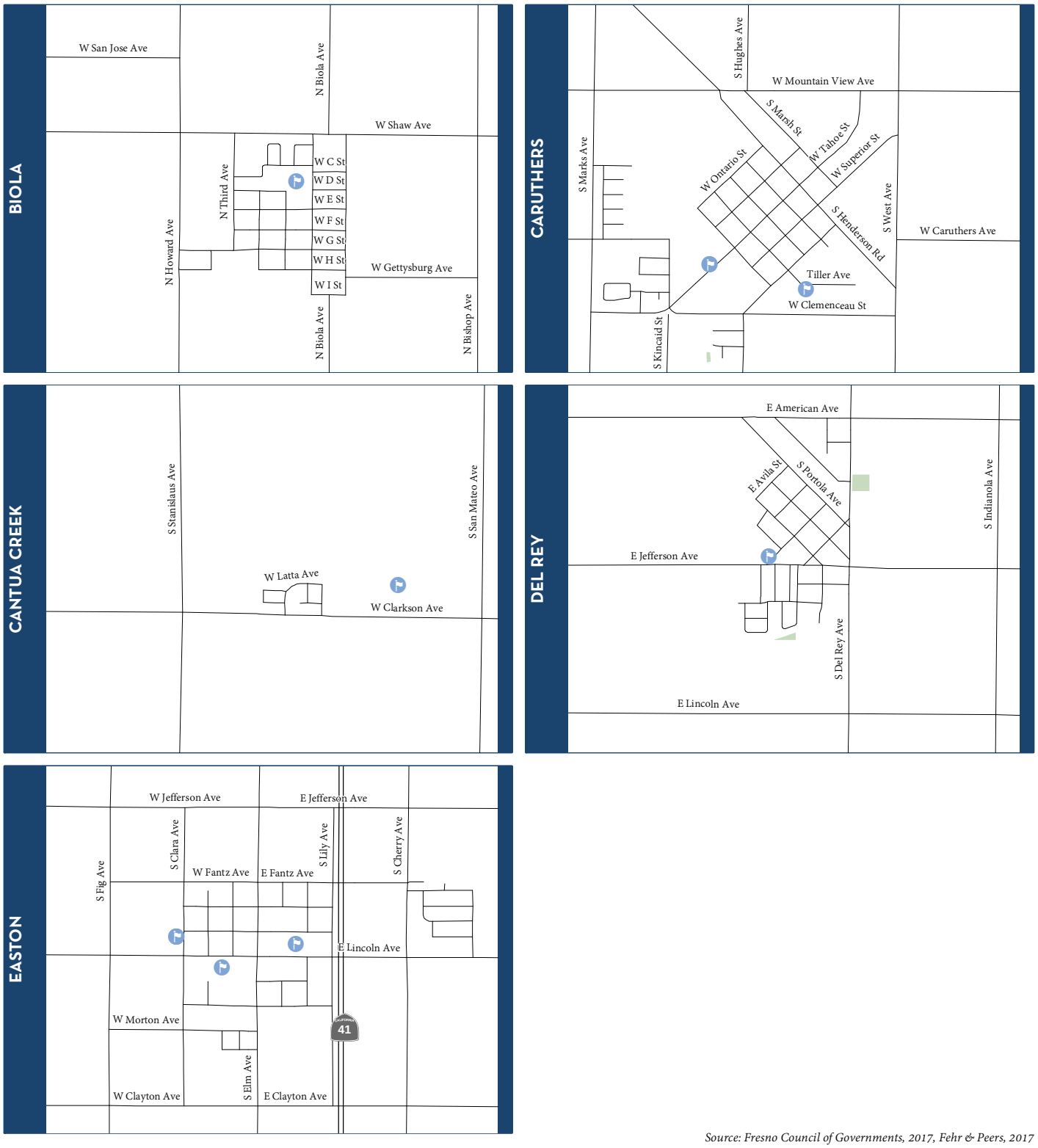
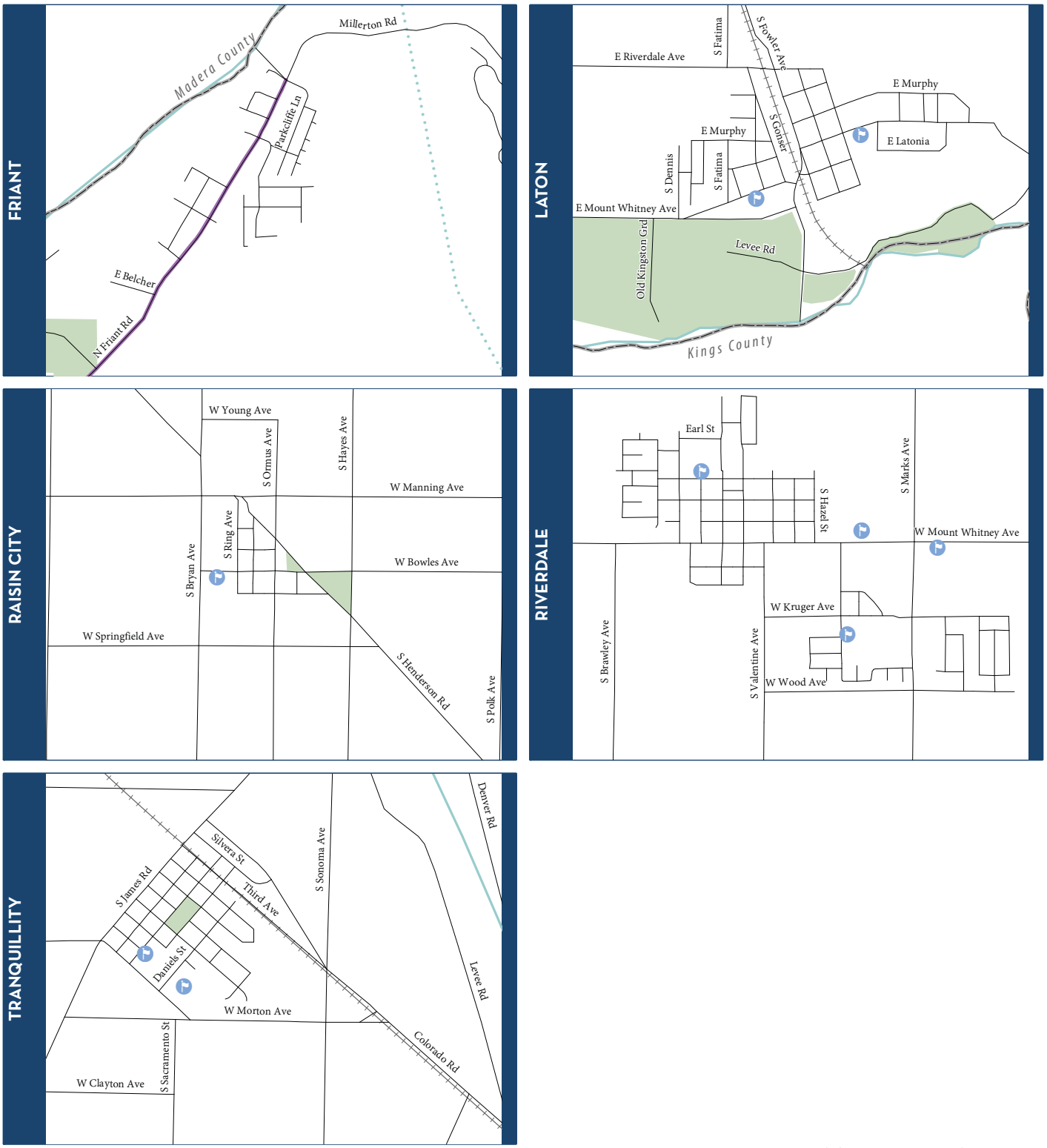


Figure 6-2: Fresno County Unincorporated Communities Existing Bicycle Facilities



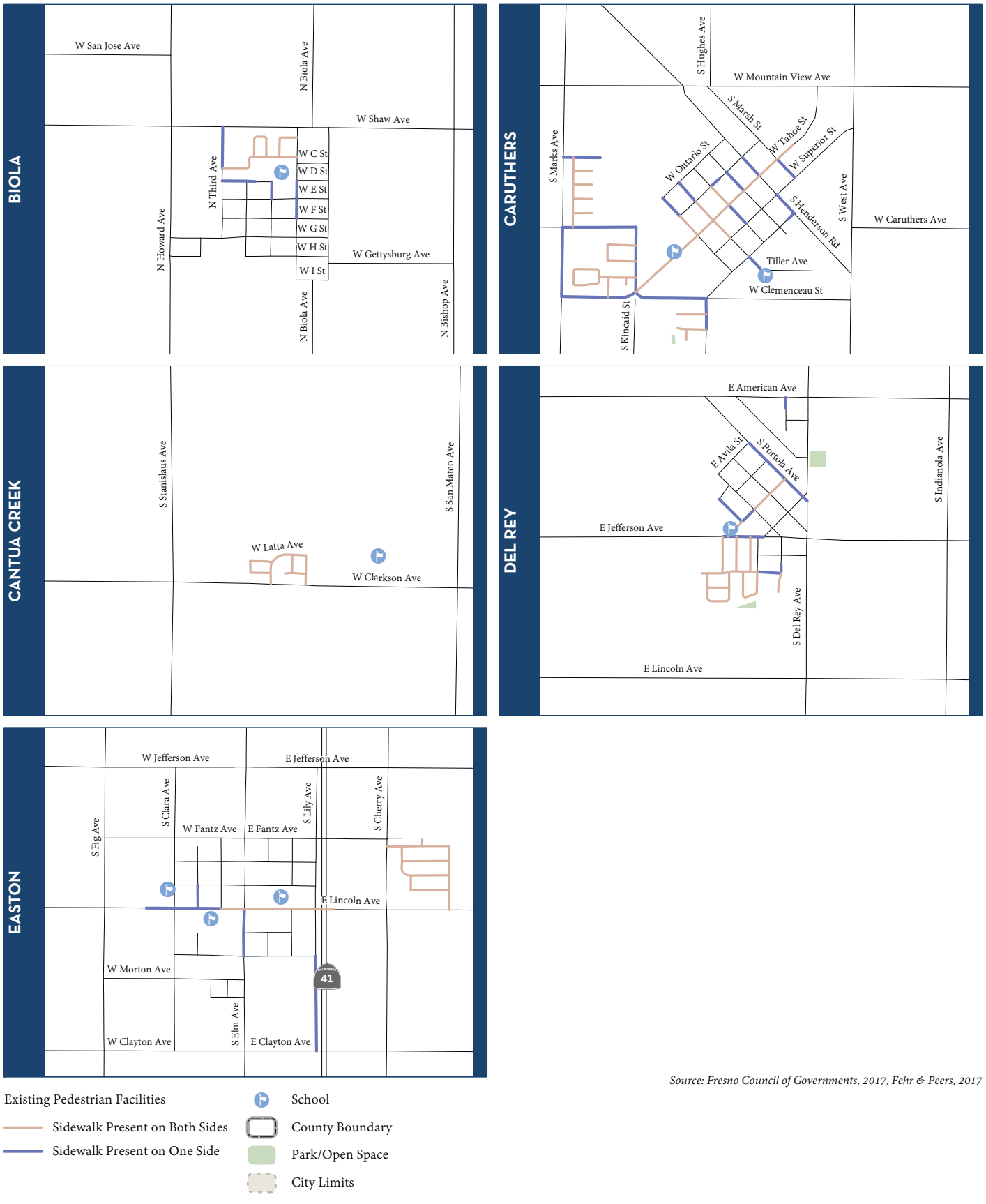
Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-2: Fresno County Unincorporated Communities Existing Bicycle Facilities (continued)



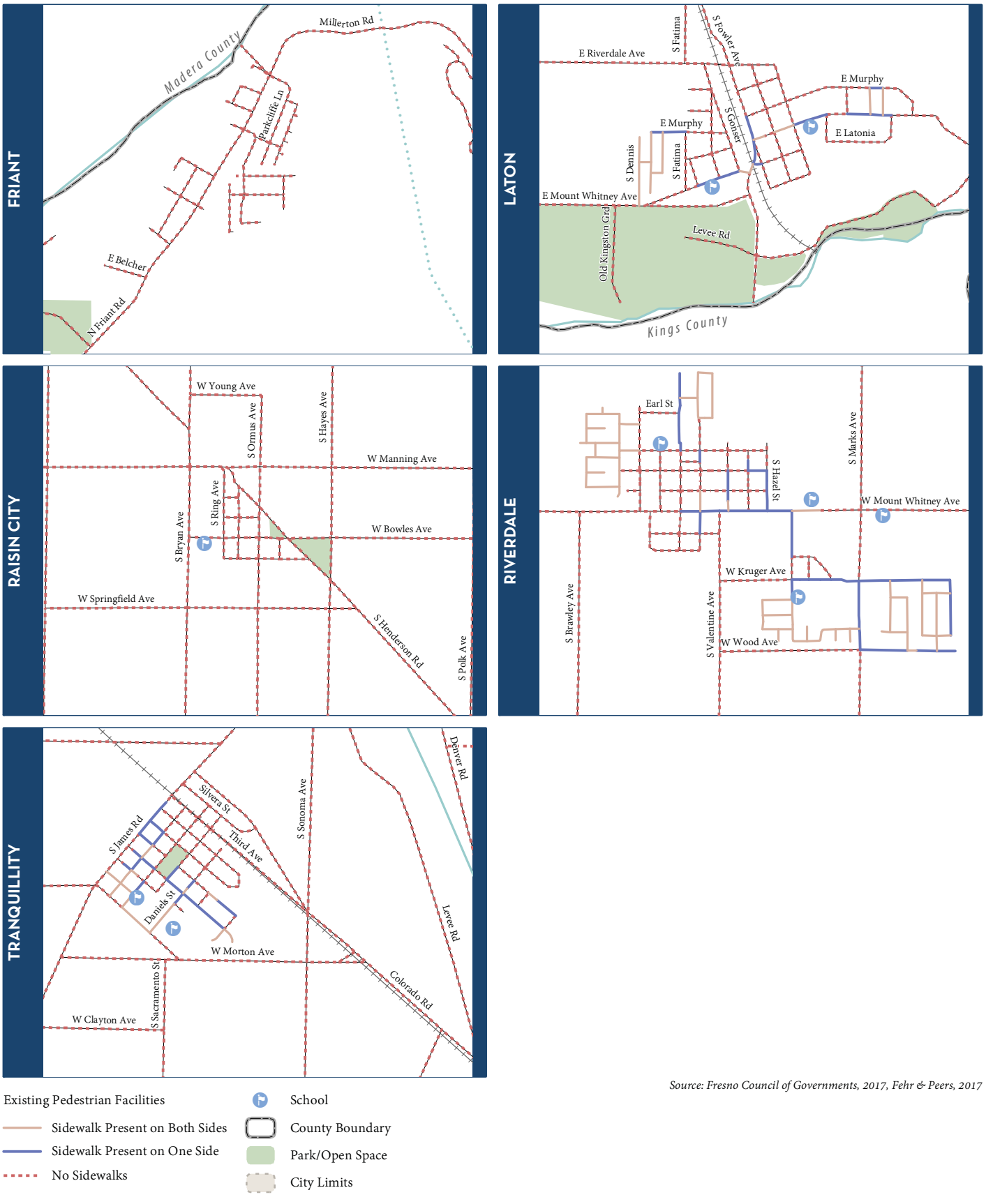
Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-3: Fresno County Unincorporated Communities Existing Pedestrian Facilities



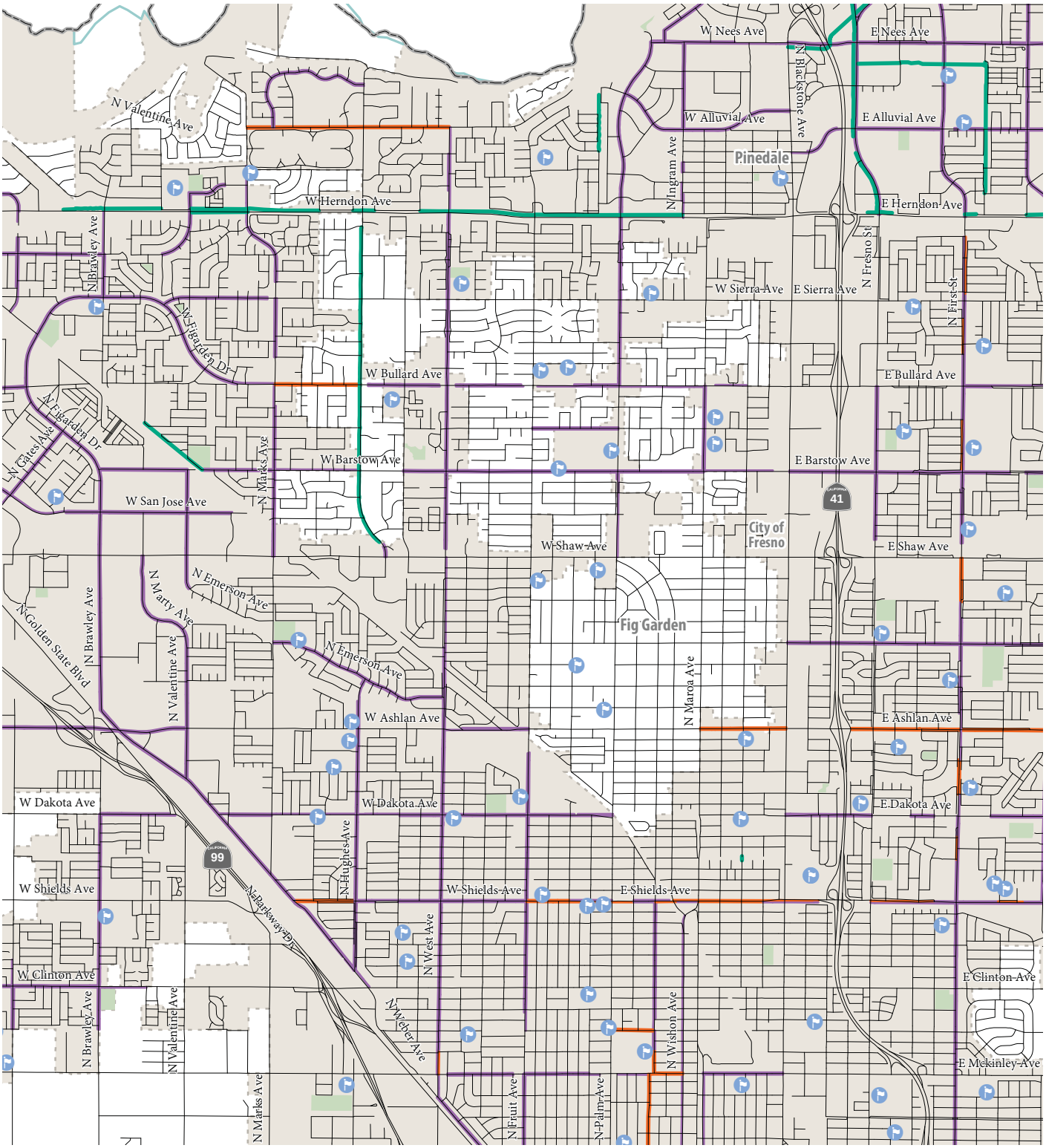
Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-3: Fresno County Unincorporated Communities Existing Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-4: Fresno County Unincorporated County Island Existing Bicycle Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

Existing Bicycle Facilities

Class I Bikeway (Bike Path)

Class II Bikeway (Bike Lane)

Class III Bikeway (Bike Route)

Waterway

Canal

Park/Open Space

City Limits

County Boundary

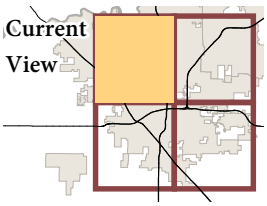
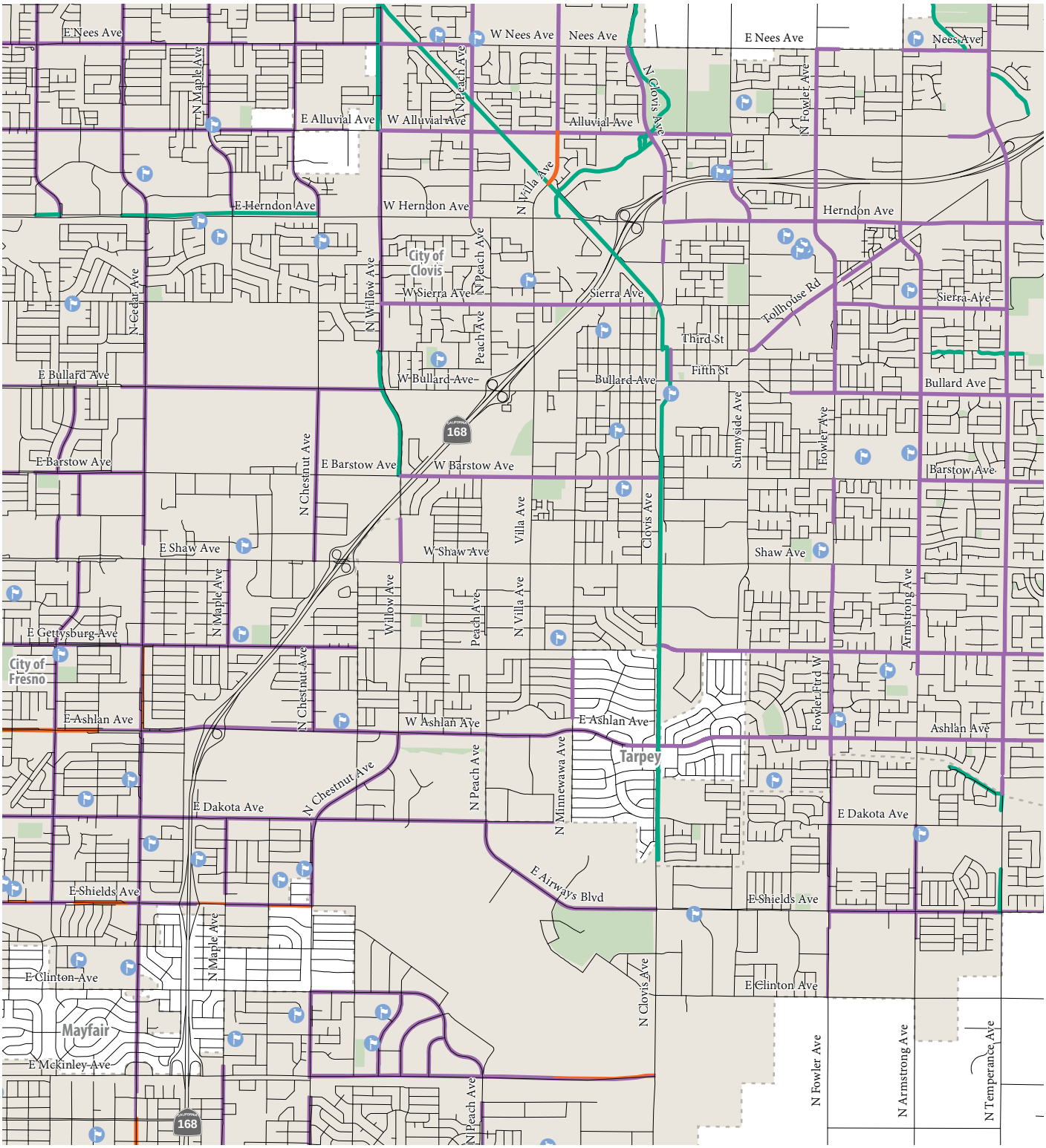


Figure 6-4: Fresno County Unincorporated County Island Existing Bicycle Facilities (Continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

Existing Bicycle Facilities

Class I Bikeway (Bike Path)

Class II Bikeway (Bike Lane)

Class III Bikeway (Bike Route)

Waterway

Canal

Park/Open Space

City Limits

County Boundary

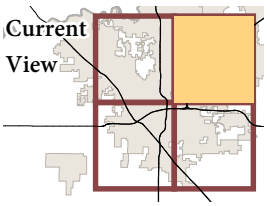
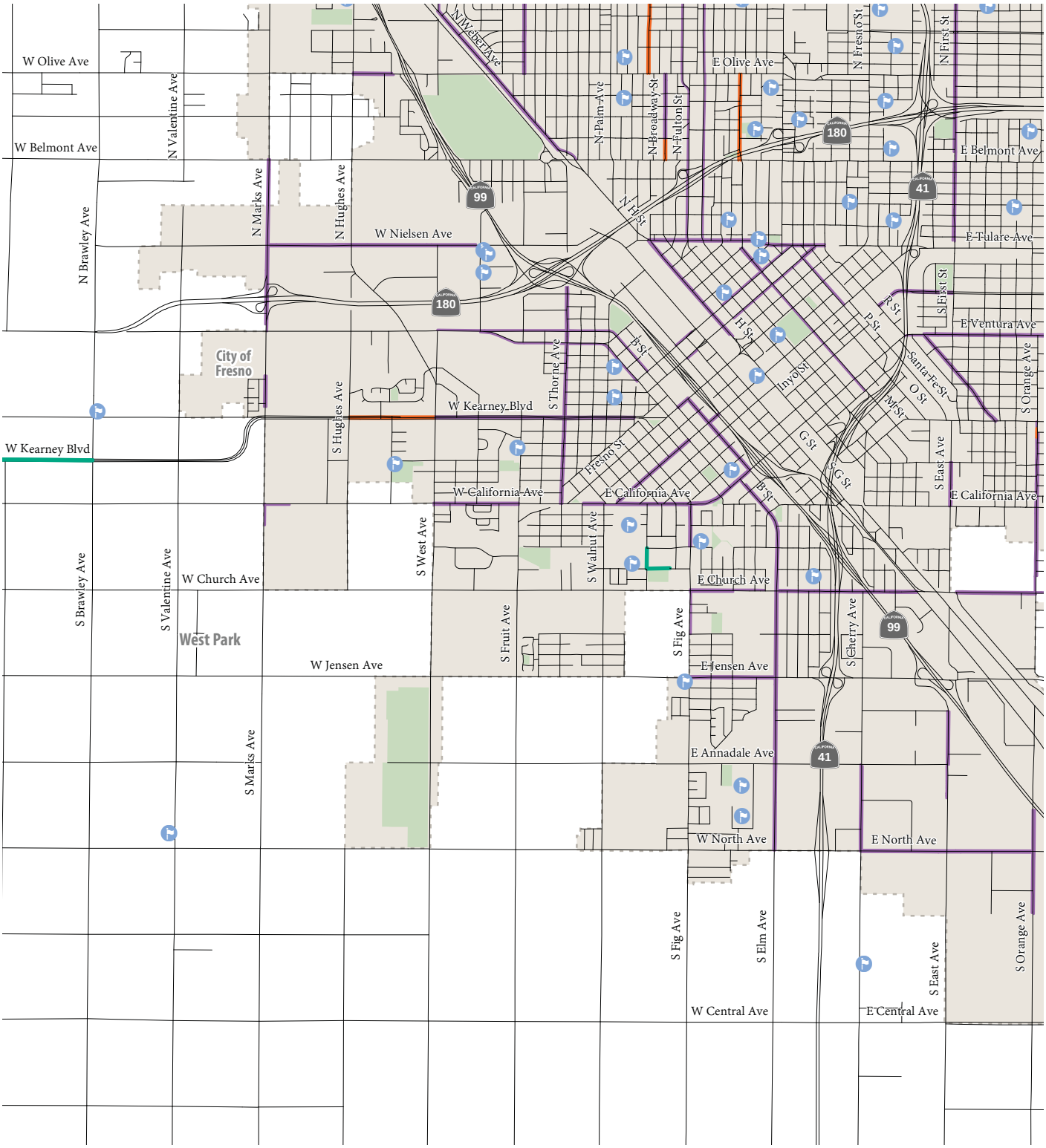


Figure 6-4: Fresno County Unincorporated County Island Existing Bicycle Facilities (Continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

Existing Bicycle Facilities

Class I Bikeway (Bike Path)

Class II Bikeway (Bike Lane)

Class III Bikeway (Bike Route)

Waterway

Canal

Park/Open Space

City Limits

County Boundary

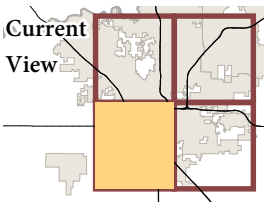
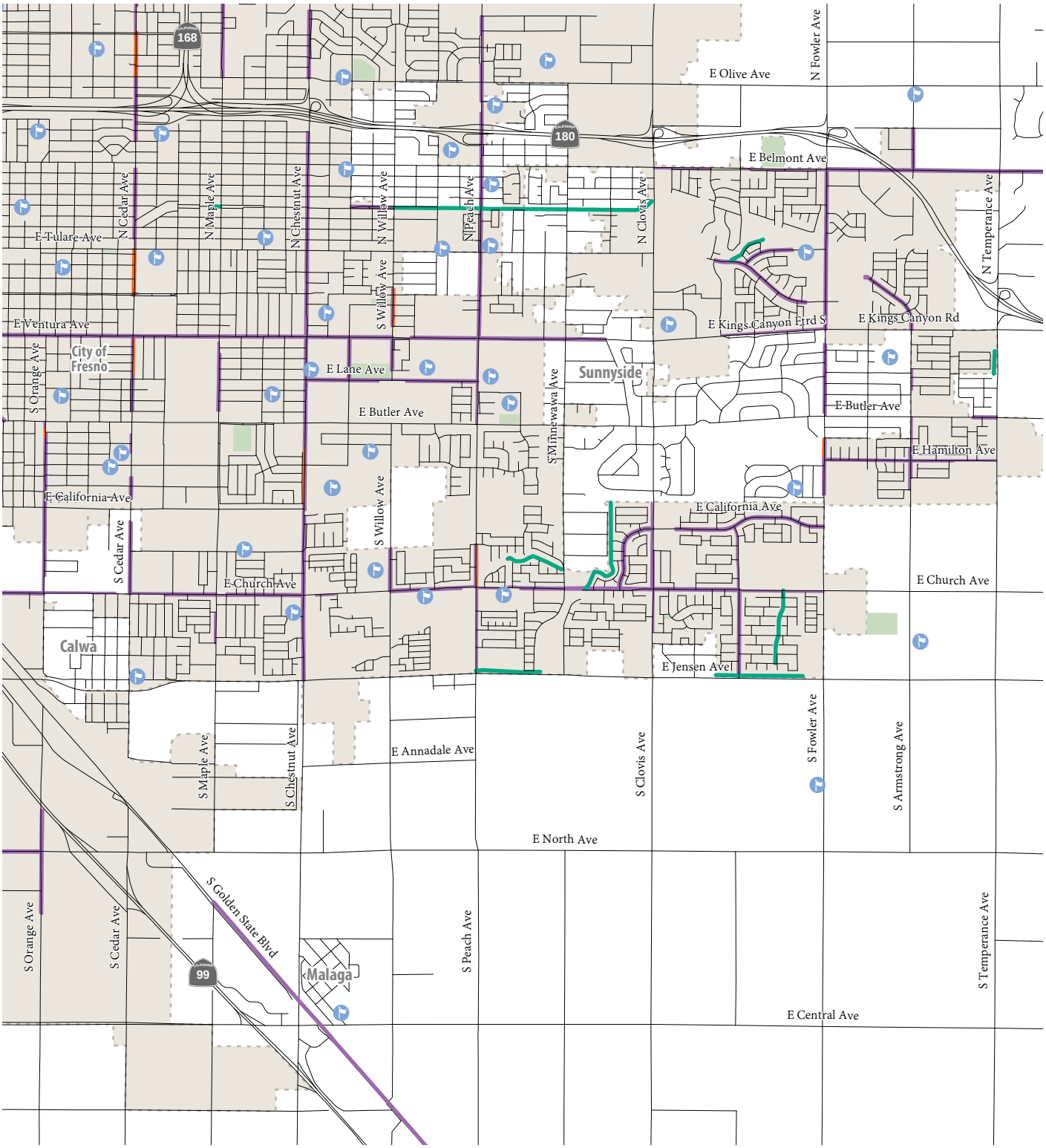


Figure 6-4: Fresno County Unincorporated County Island Existing Bicycle Facilities (Continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

Existing Bicycle Facilities

Class I Bikeway (Bike Path)

Class II Bikeway (Bike Lane)

Class III Bikeway (Bike Route)

Waterway

Canal

Park/Open Space

City Limits

County Boundary

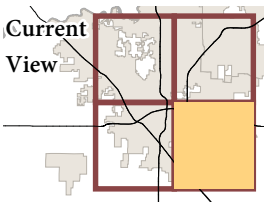
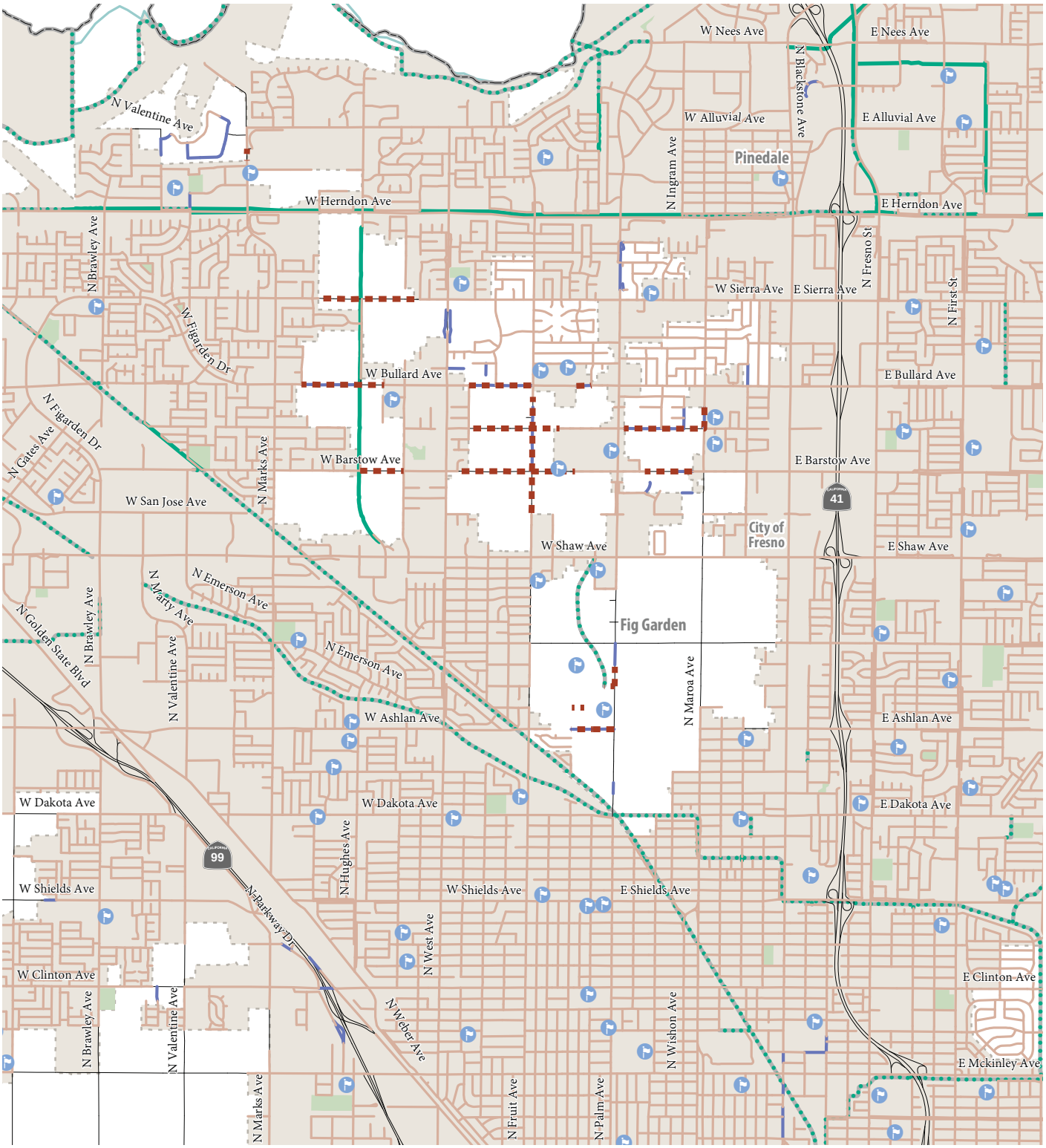


Figure 6-5: Fresno County Unincorporated County Island Existing Pedestrian Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Construct Sidewalks
- Intersection Improvements\Pedestrian Crossing
- Planned Shared-Use Path
- Funded Intersection Improvements\Pedestrian Crossing
- Project Covered by Other Plans
- School
- Sidewalk Present on Both Sides
- Sidewalk Present on One Side
- Existing Shared-Use Path
- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

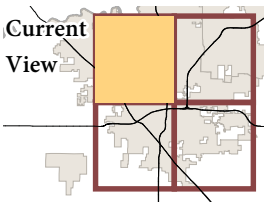
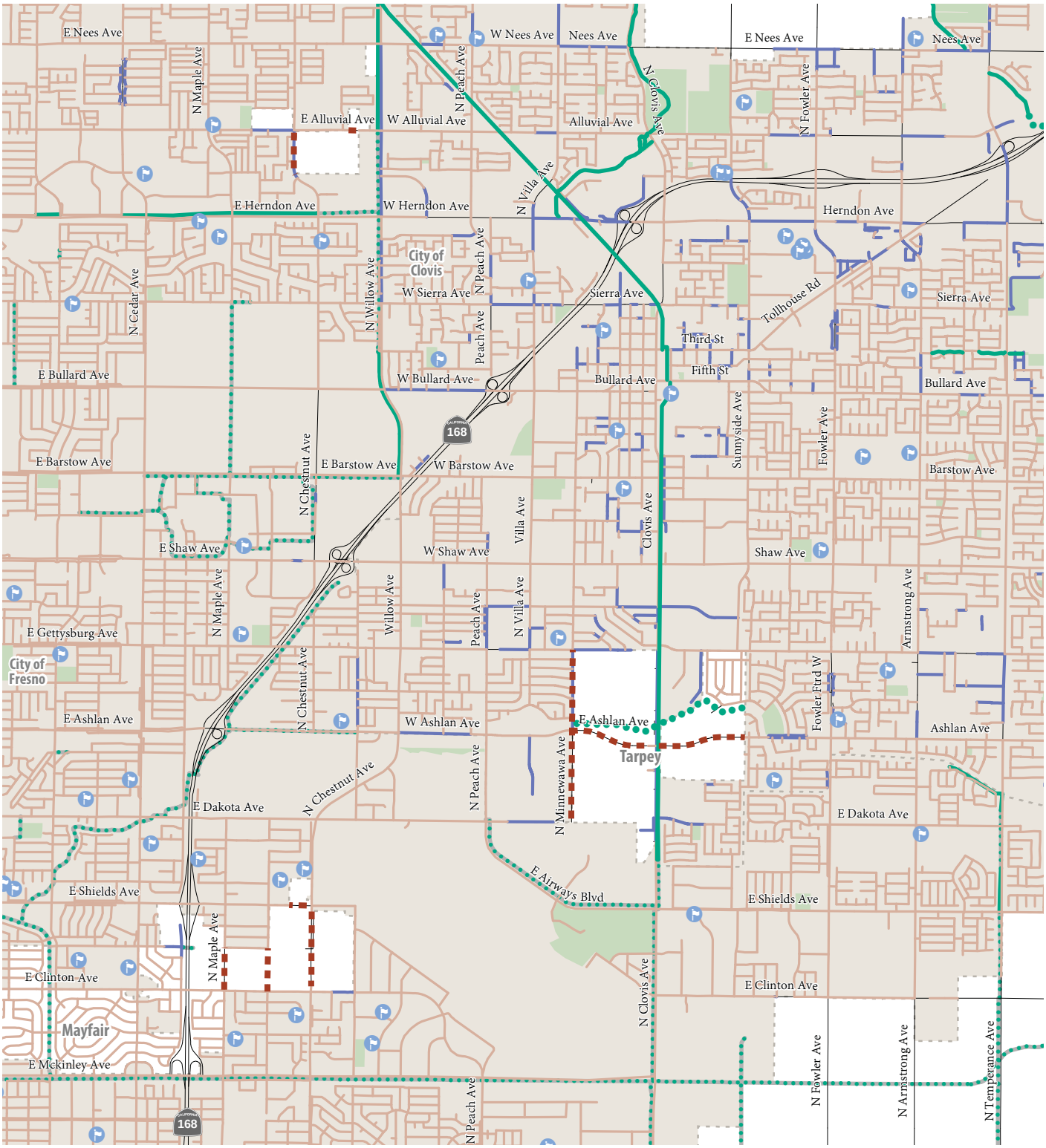


Figure 6-5: Fresno County Unincorporated County Island Existing Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Construct Sidewalks
- Intersection Improvements\Pedestrian Crossing
- Planned Shared-Use Path
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- Project Covered by Other Plans
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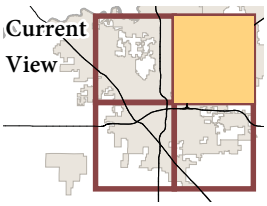
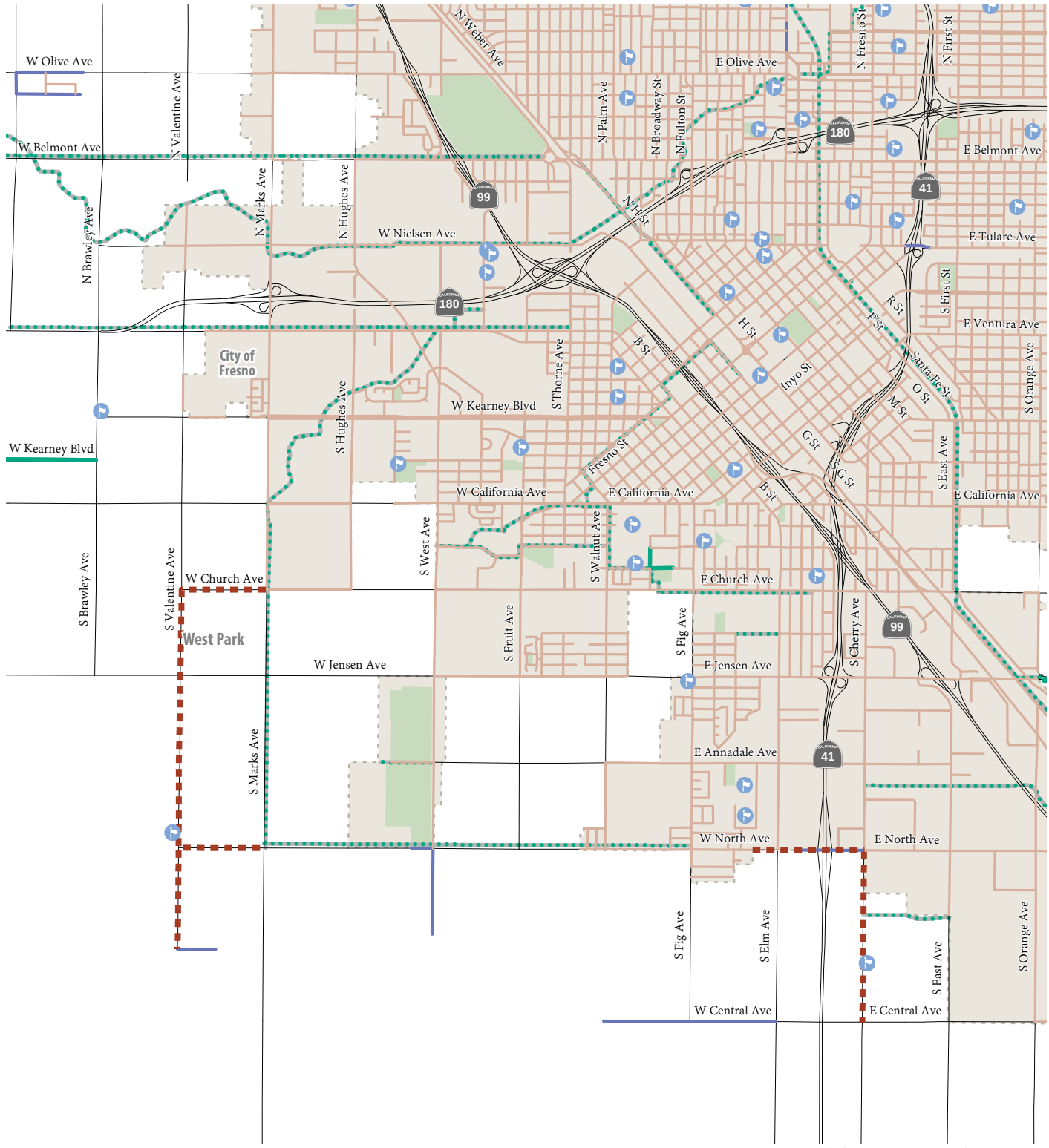


Figure 6-5: Fresno County Unincorporated County Island Existing Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Construct Sidewalks
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- City Limits
- County Boundary

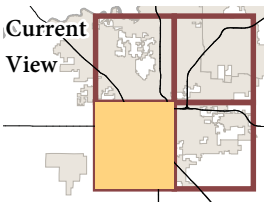
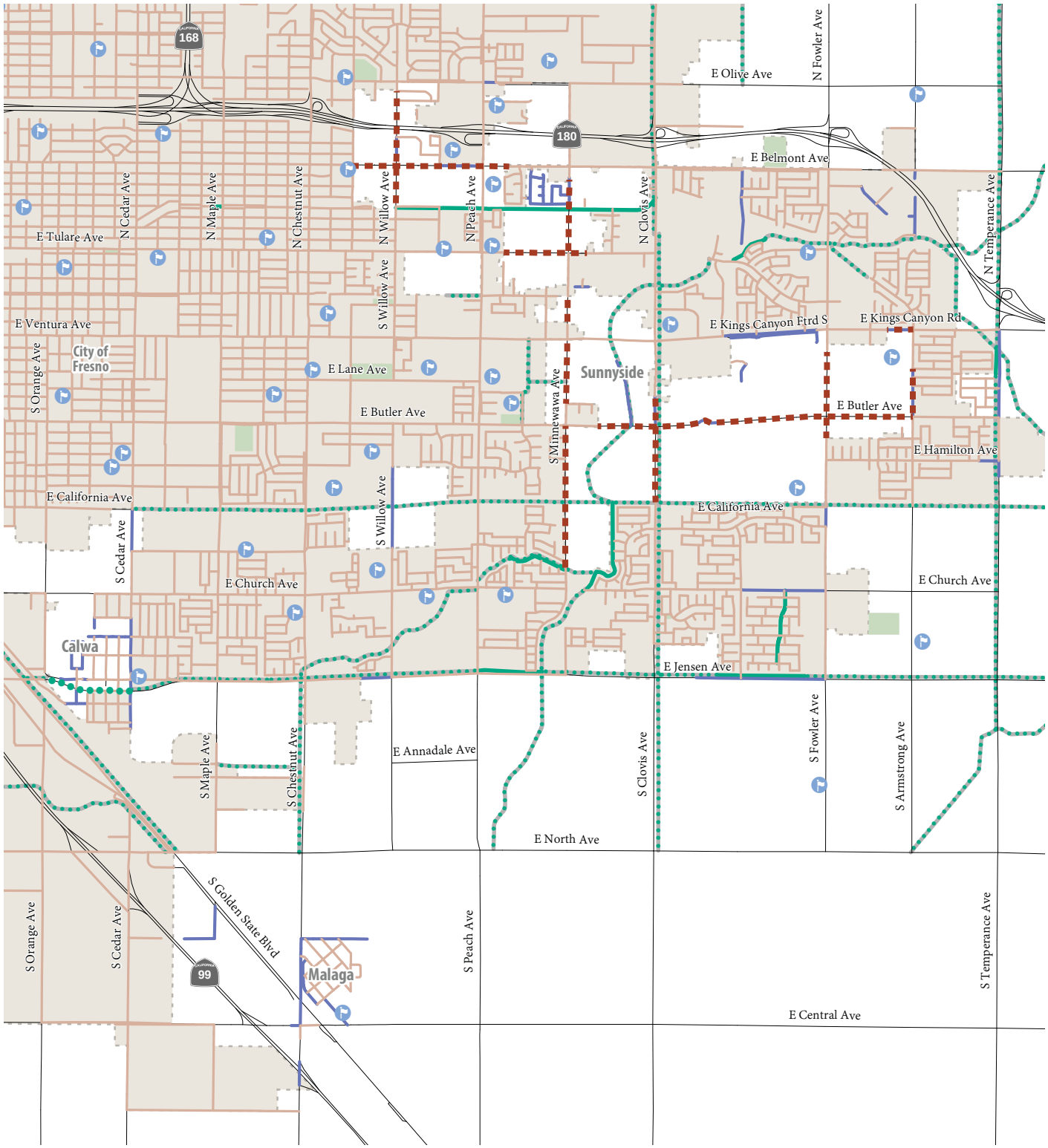
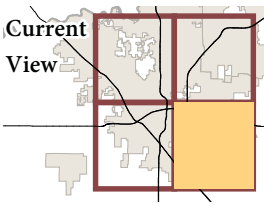


Figure 6-5: Fresno County Unincorporated County Island Existing Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Construct Sidewalks
- Intersection Improvements\Pedestrian Crossing
- Planned Shared-Use Path
- Funded Intersection Improvements\Pedestrian Crossing
- Project Covered by Other Plans
- School
- Sidewalk Present on Both Sides
- Sidewalk Present on One Side
- Existing Shared-Use Path
- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary



Curb, gutter, and drainage systems are also necessary for the development of most sidewalks. However, many unincorporated communities lack drainage systems, and most do not have drainage master plans. This condition often limits installation of new concrete sidewalks. In some locations where drainage systems and curb and gutter have not been developed, asphalt pathways have been installed to provide a paved, accessible surface for walking and biking.

The BRTMP estimated that about 90 bicycle parking sites existed throughout the county in June 2010. Although many schools, public buildings, and other destinations have bicycle parking, existing bicycle parking locations could not be verified for much of the County. Because safe and secure bicycle parking is important to encourage bicycle travel, but a full county analysis is beyond the scope of this ATP, this plan proposes a study of existing bicycle parking and bicycle parking needs as discussed in Chapter 4, Planned Networks.

Key Destinations

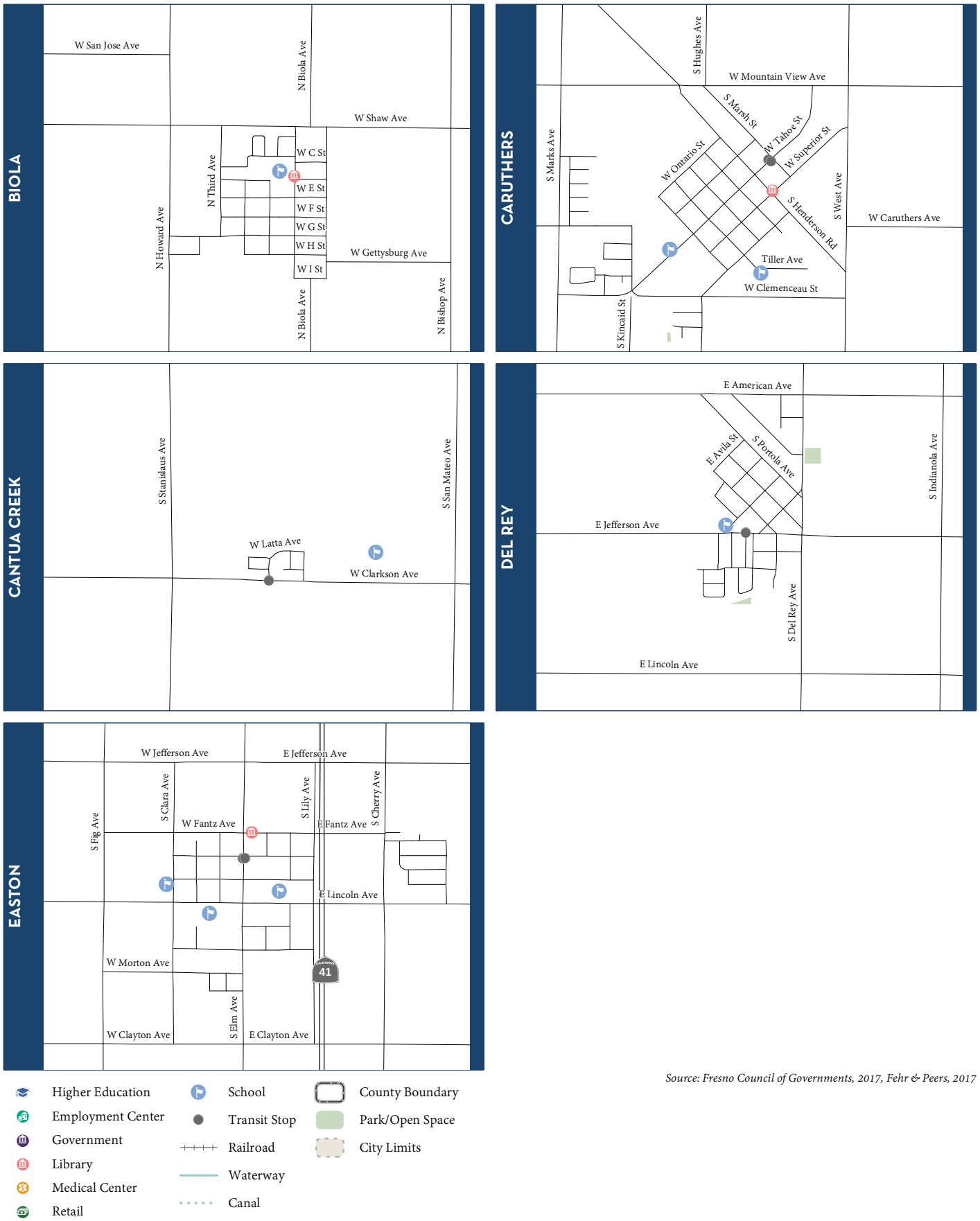
Important destinations for bicyclists and pedestrians are shown in Figures 6-6 to 6-7. In smaller communities, destinations typically include transit stops, schools, parks, local retail centers, and in some cases branch libraries or employment centers. For the bikeways between communities, important destinations are also the communities themselves. Figure 6-8 depicts the general plan zoning map for the County.

Street lacking sidewalks, curbs and gutters in the unincorporated community of Raisin City

Raisin City Park sign

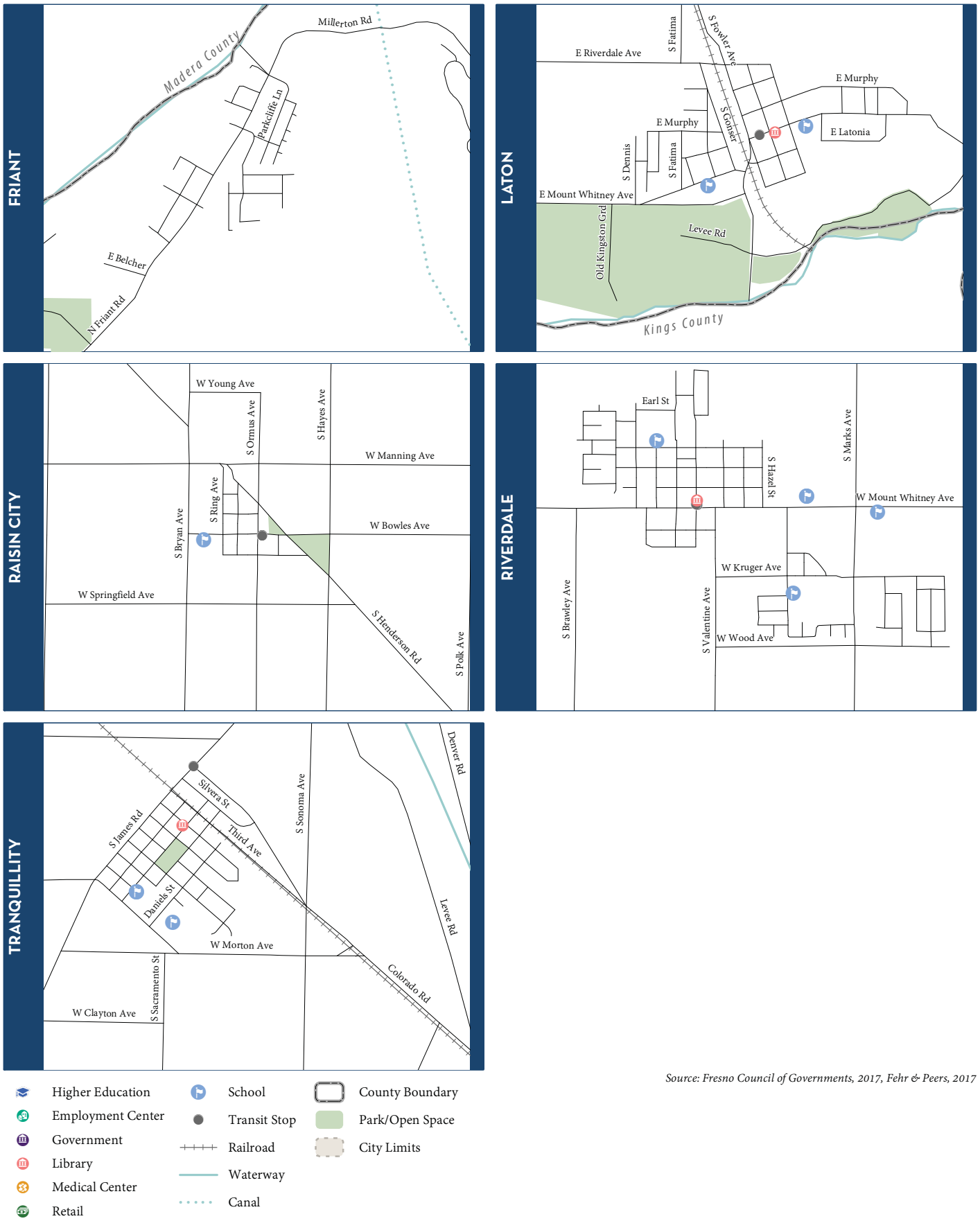
Sign indicating flooded street in Raisin City.

Figure 6-6: Fresno County Unincorporated Communities Key Destinations



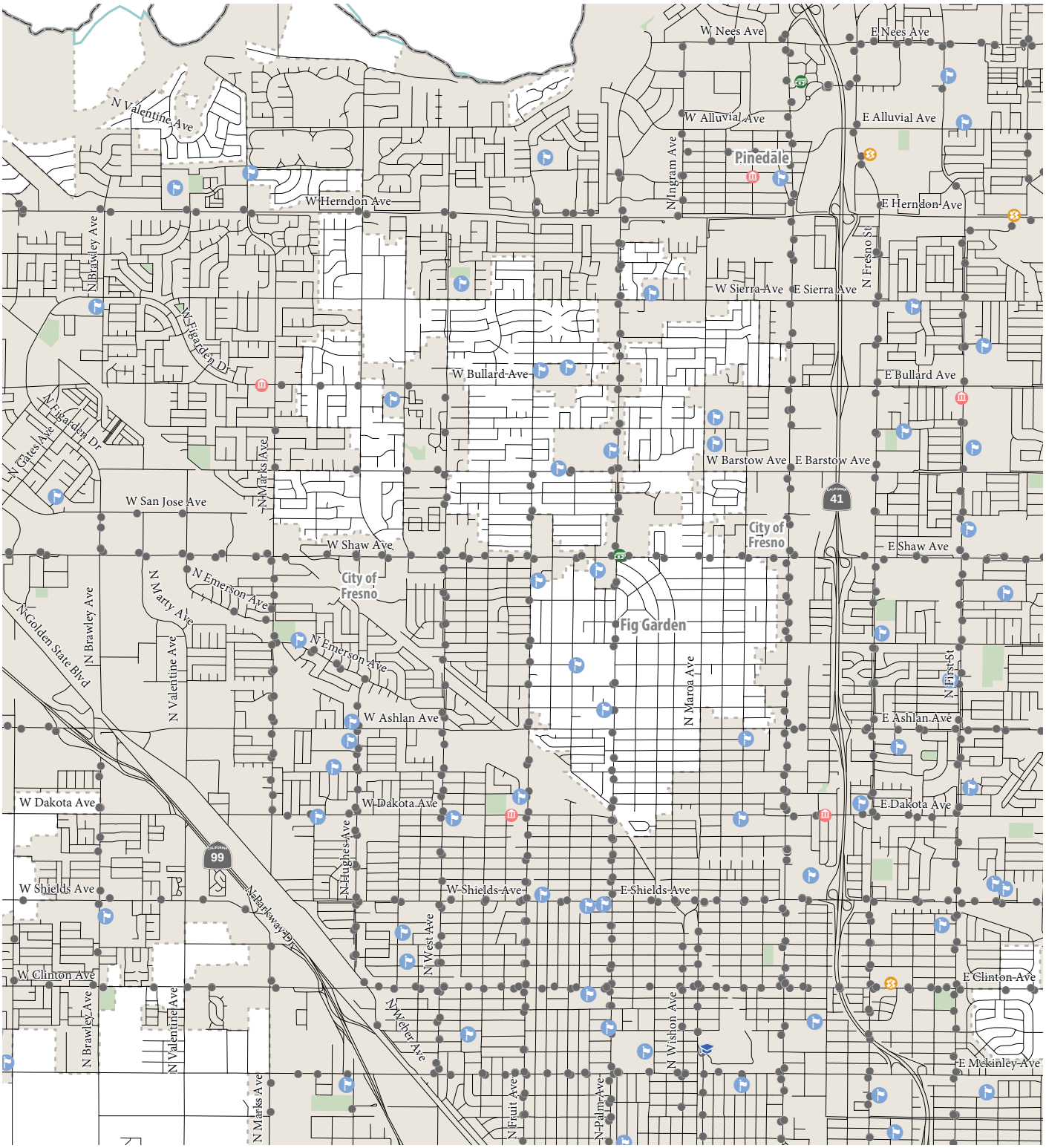
Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-6: Fresno County Unincorporated Communities Key Destinations (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-7: Fresno County Unincorporated County Islands Key Destinations



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Higher Education
- Employment Center
- Government
- Library
- Medical Center
- Retail
- School
- Transit Stop
- Waterway
- Canal
- City Limits
- County Boundary

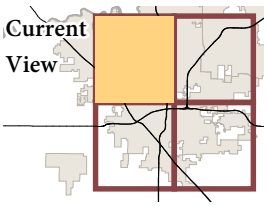
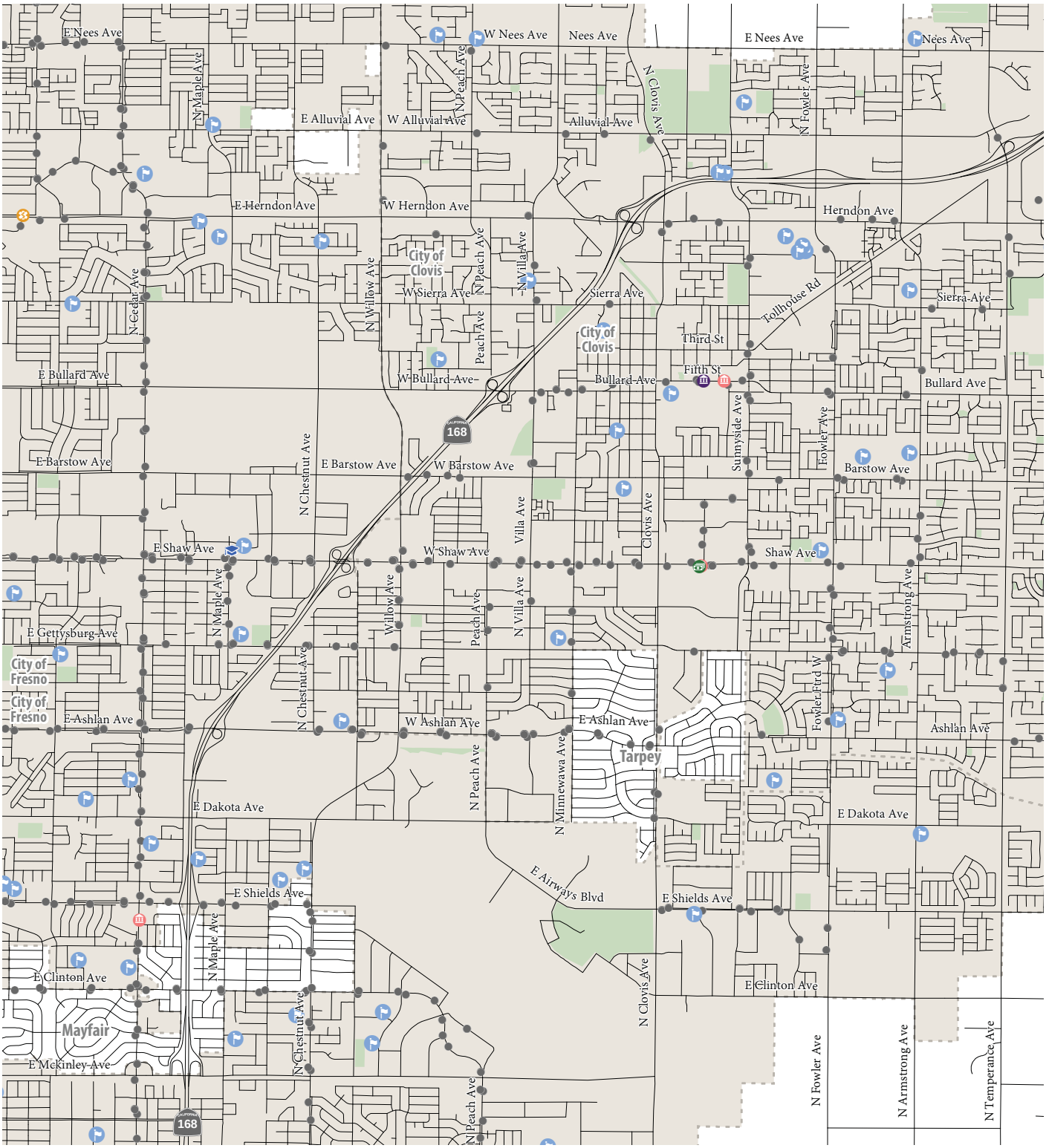


Figure 6-7: Fresno County Unincorporated County Islands Key Destinations (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Higher Education
- Employment Center
- Government
- Library
- Medical Center
- Retail
- School
- Transit Stop
- Waterway
- Canal
- City Limits
- County Boundary

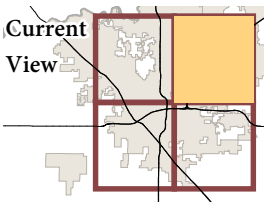
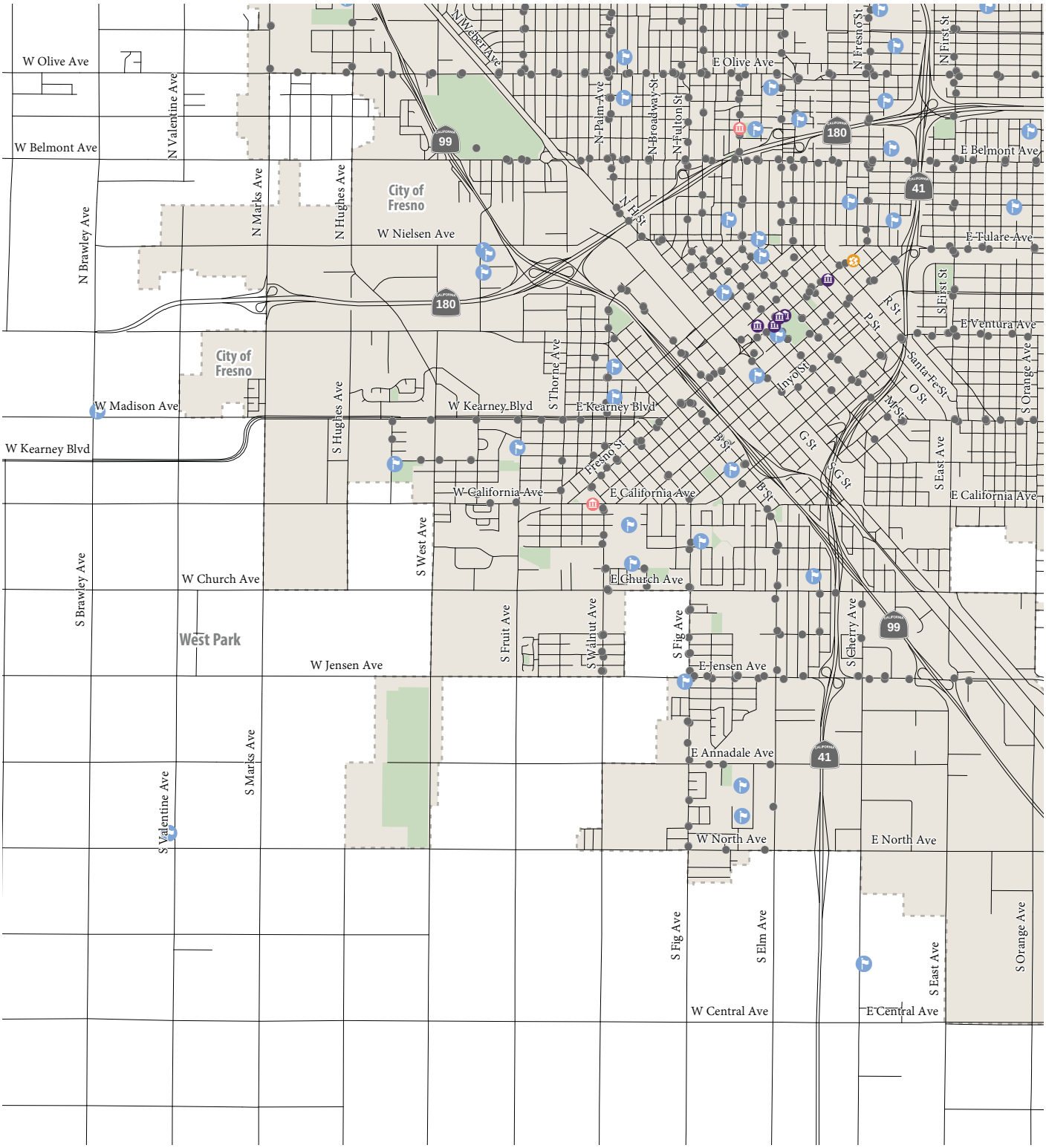


Figure 6-7: Fresno County Unincorporated County Islands Key Destinations (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Higher Education
- Employment Center
- Government
- Library
- Medical Center
- Retail
- School
- Transit Stop
- Waterway
- Canal
- City Limits
- County Boundary

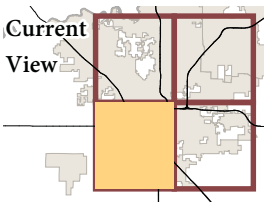
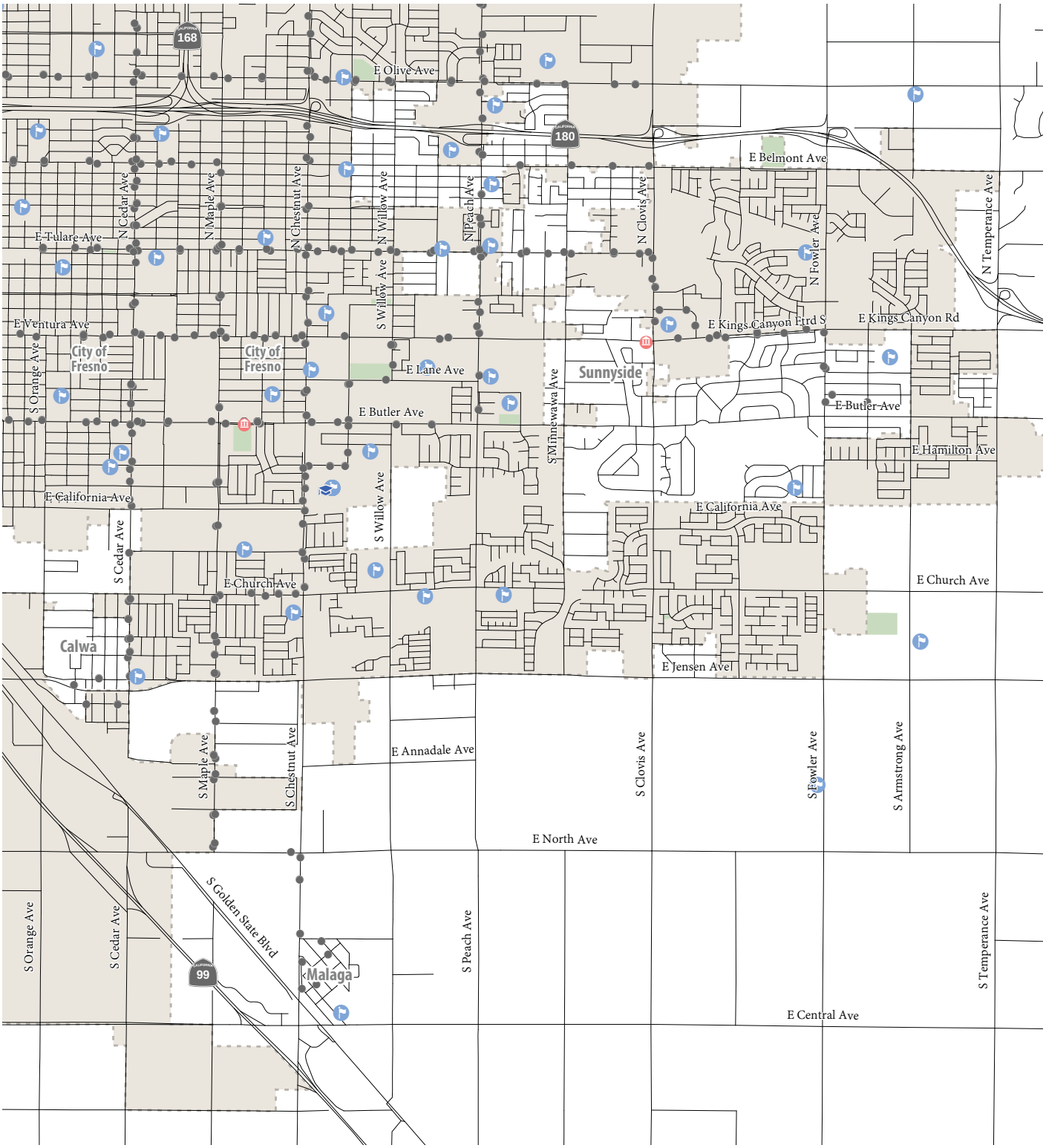


Figure 6-7: Fresno County Unincorporated County Islands Key Destinations (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Higher Education
- Employment Center
- Government
- Library
- Medical Center
- Retail
- School
- Transit Stop
- Waterway
- Canal
- City Limits
- County Boundary

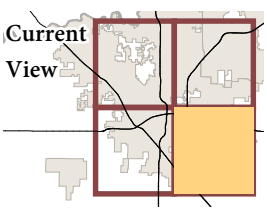
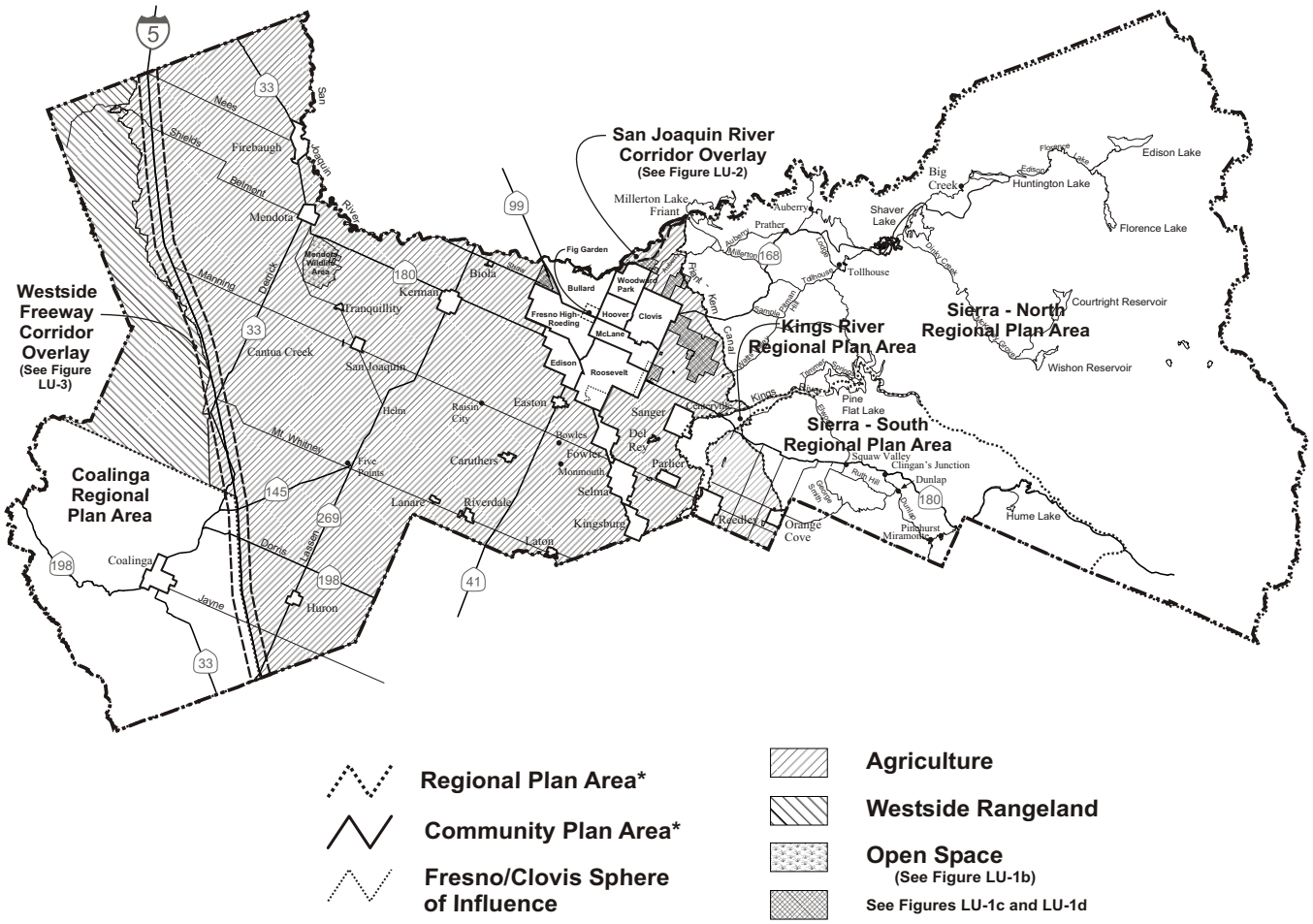


Figure 6-8: Fresno County General Plan Zoning Map

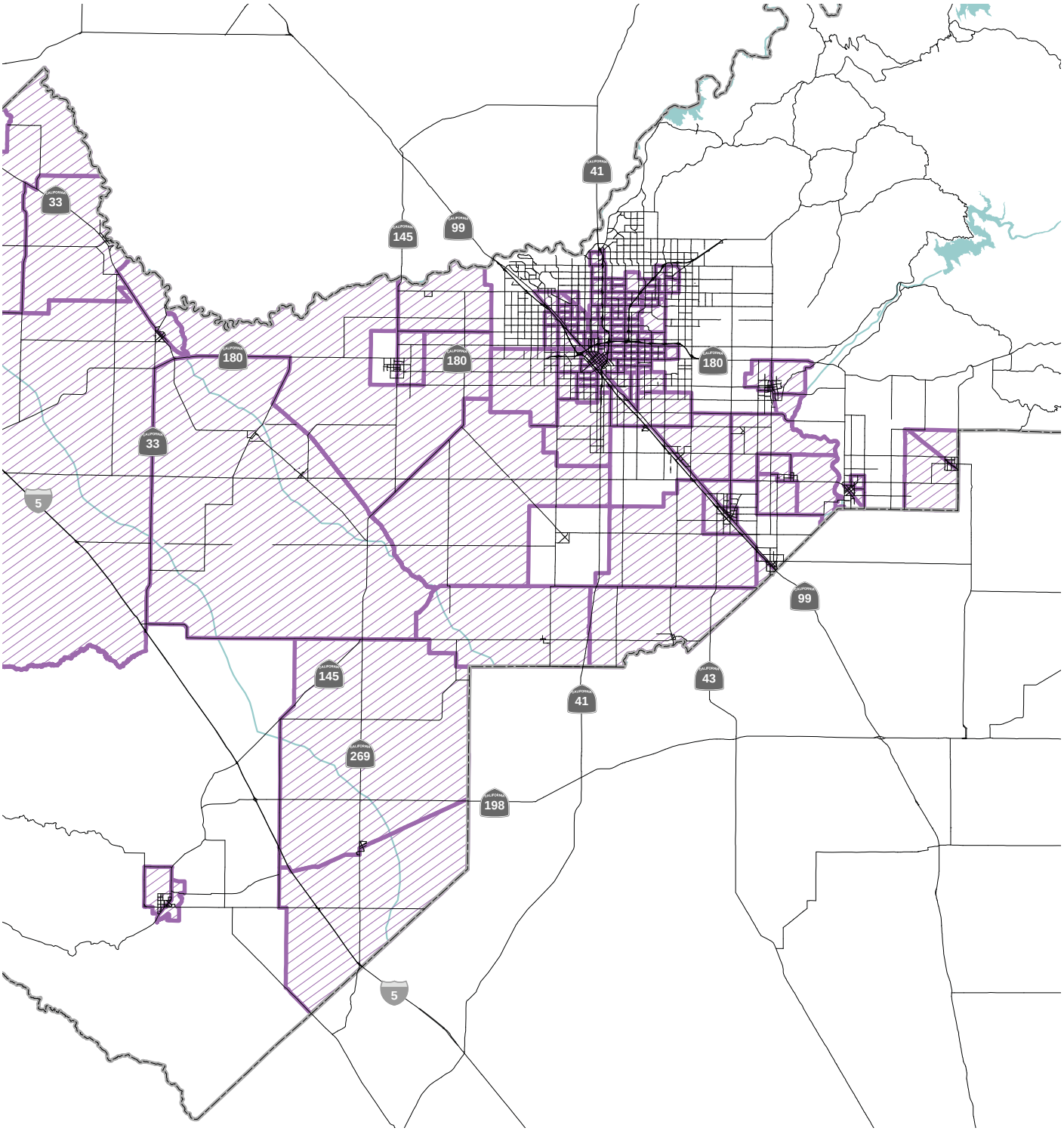


Source: Fresno County, 2017

Disadvantaged Communities

Much of Fresno County meets one or more of the criteria for disadvantaged communities, as shown in Figures 6-9 to 6-18. These indicators are explained in Chapter 3, Existing Conditions.

Figure 6-9: Fresno County Household Median Income



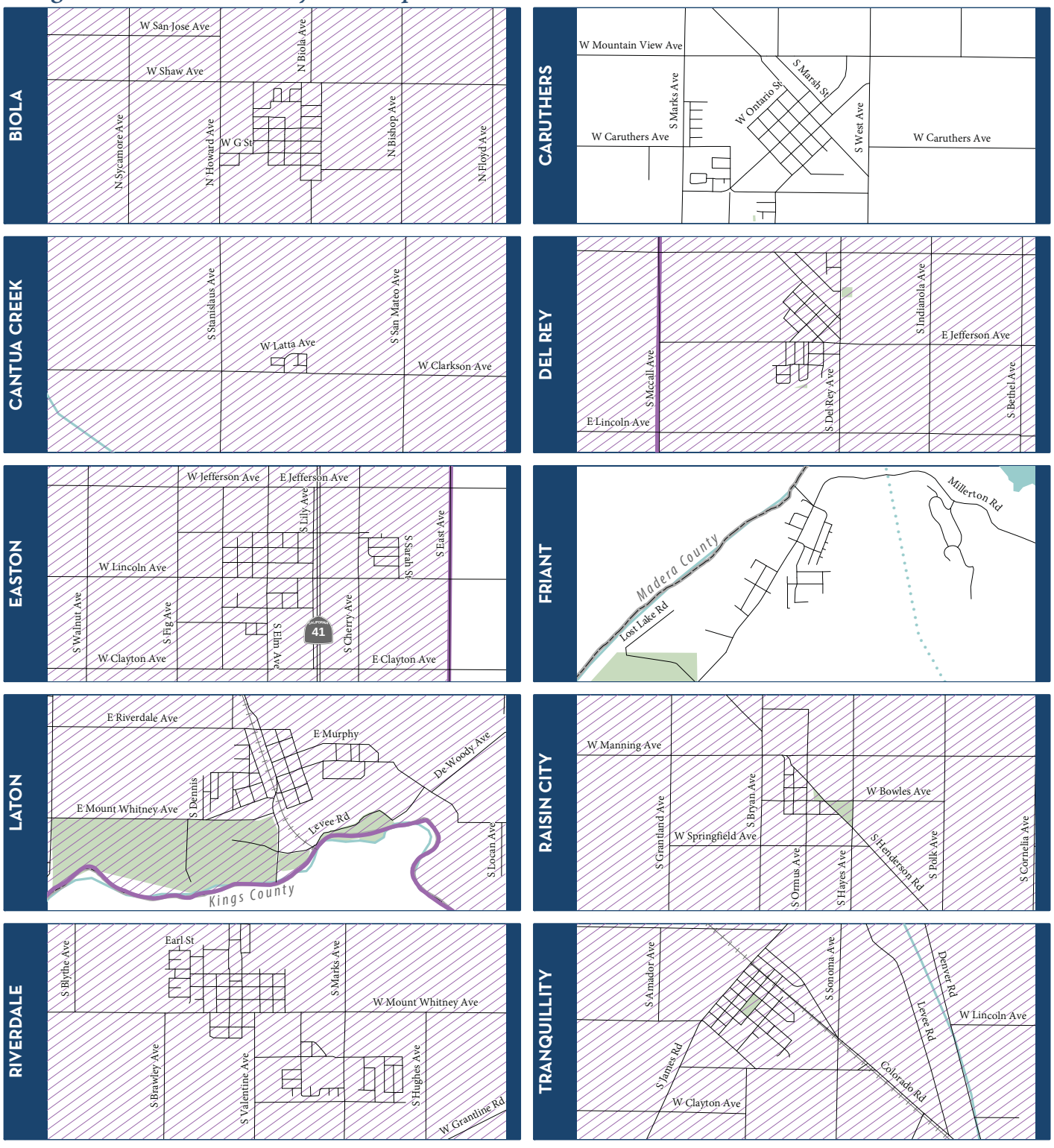
Source: U.S Census American Community Survey, 2016, Fehr & Peers, 2017

Low Income Census Tracts (less than 80% of statewide median income)

Waterway

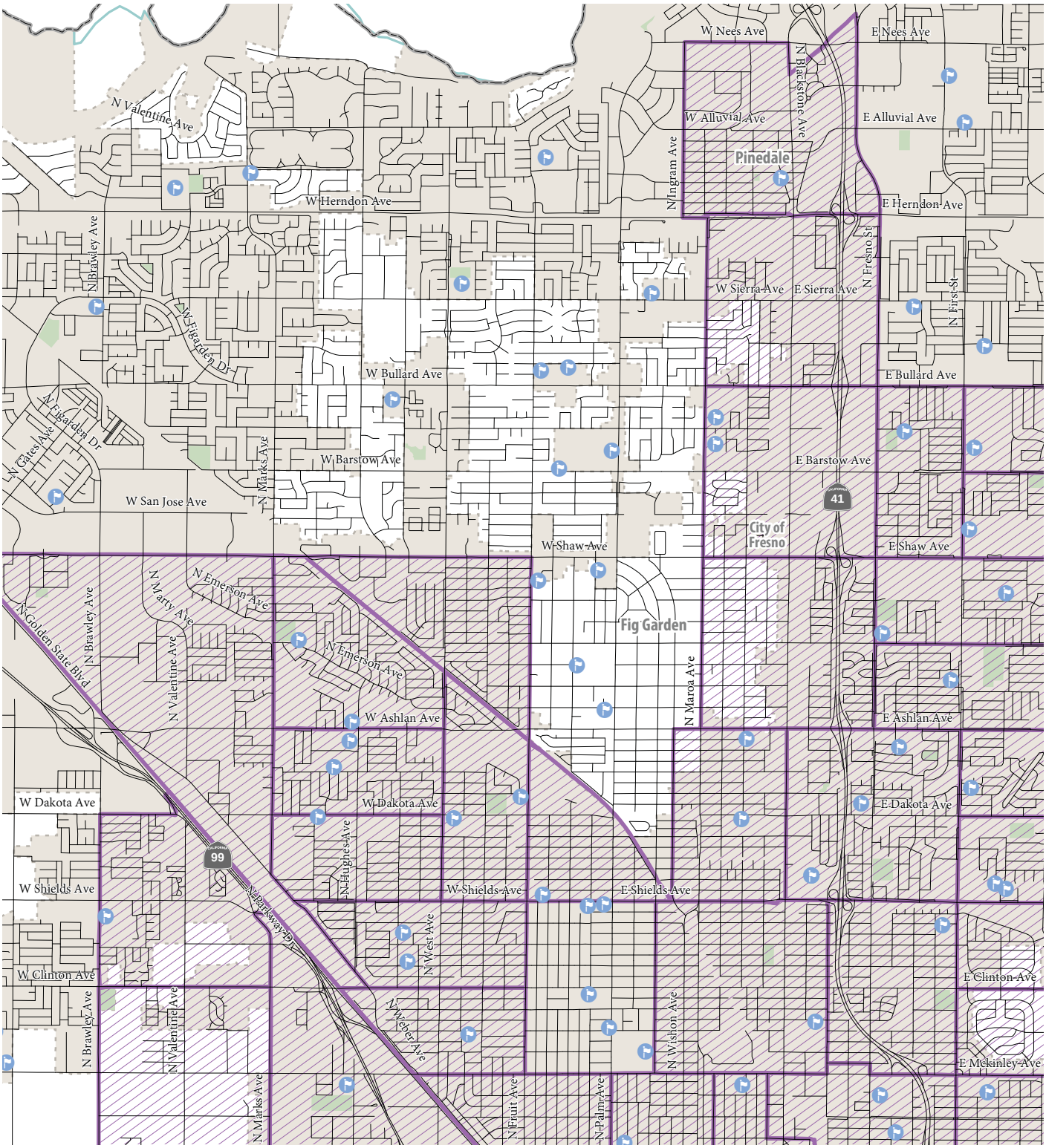
County Boundary

Figure 6-10: Fresno County Unincorporated Communities Household Median Income



Sources: U.S Census American Community Survey, 2016, Fehr & Peers, 2017

Figure 6-11: Fresno County Unincorporated County Islands Household Median Income



Sources: U.S Census American Community Survey, 2016, Fehr & Peers, 2017

School
Low Income Census Tracts
Waterway
Canal
Park/Open Space
City Limits
County Boundary

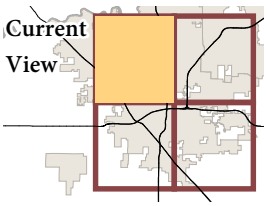
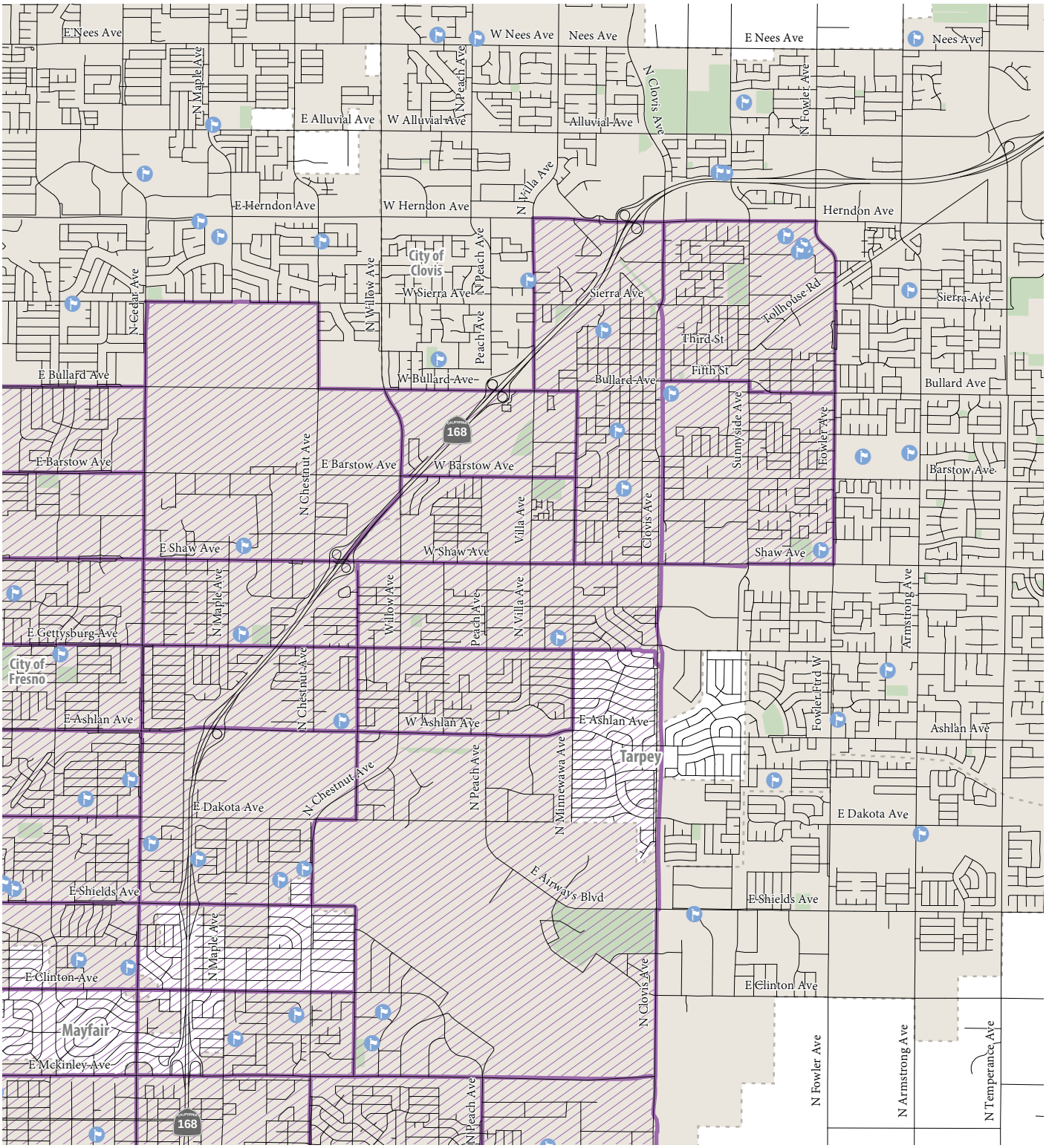


Figure 6-11: Fresno County Unincorporated County Islands Household Median Income (cont.)



Sources: U.S Census American Community Survey, 2016, Fehr & Peers, 2017

- School
- Low Income Census Tracts
- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

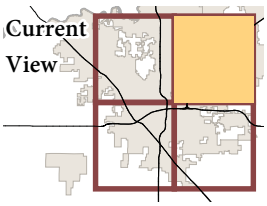
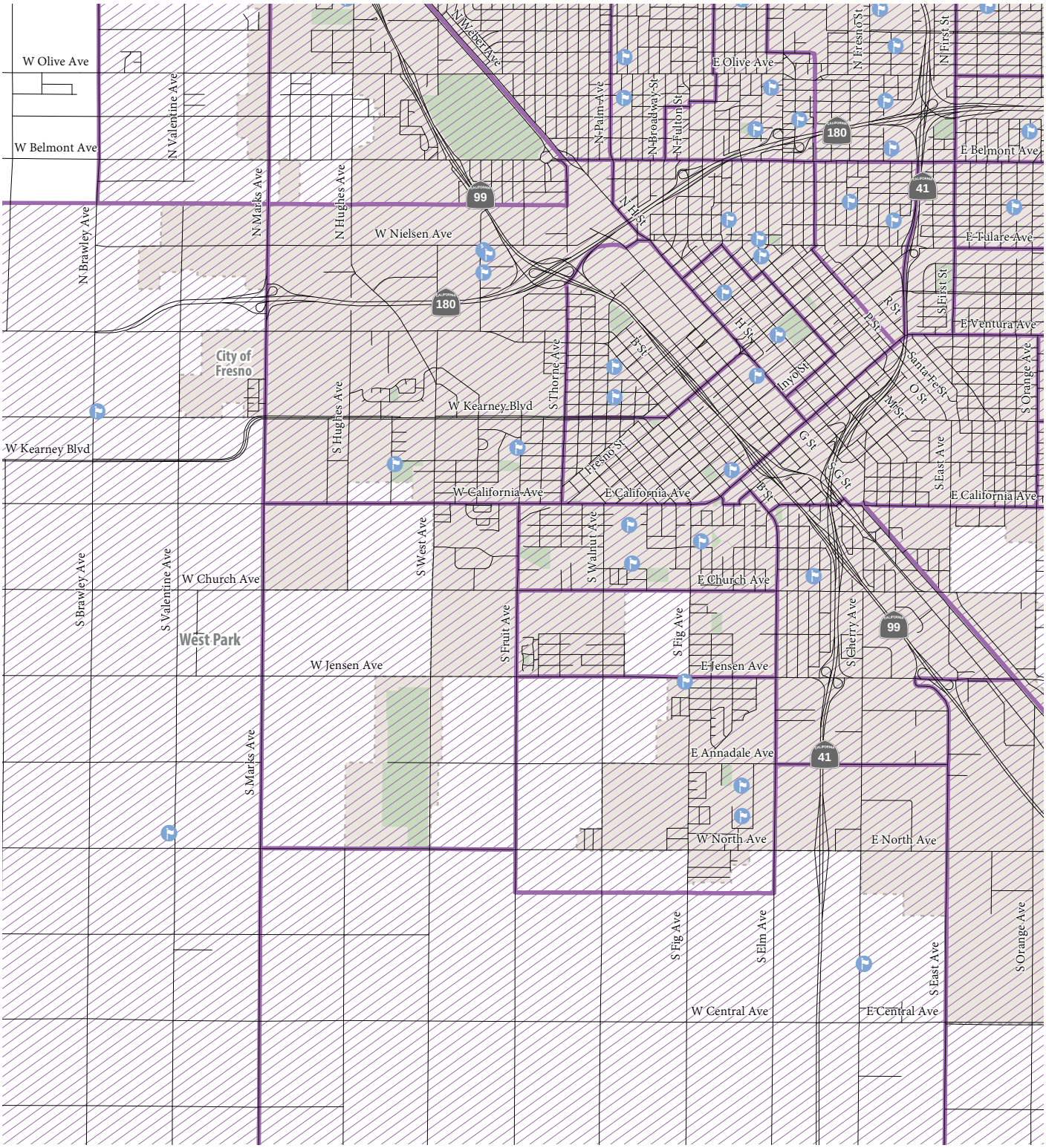


Figure 6-11: Fresno County Unincorporated County Islands Household Median Income (cont.)



Sources: U.S Census American Community Survey, 2016, Fehr & Peers, 2017

- School
- Low Income Census Tracts
- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

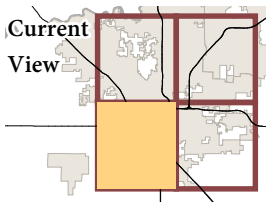
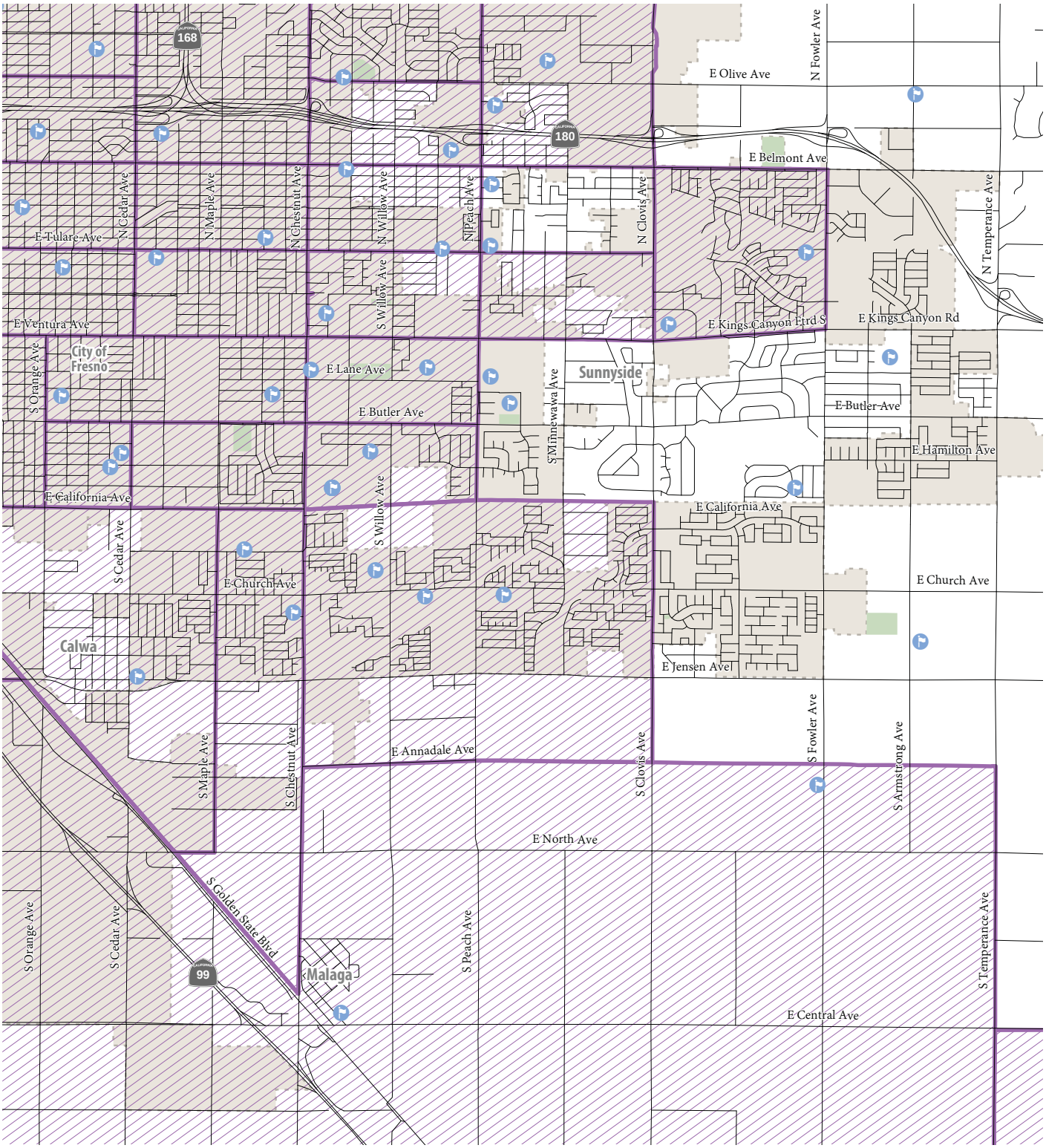


Figure 6-11: Fresno County Unincorporated County Islands Household Median Income (cont.)



Sources: U.S Census American Community Survey, 2016, Fehr & Peers, 2017

School
Low Income Census Tracts
Waterway
Canal
Park/Open Space
City Limits
County Boundary

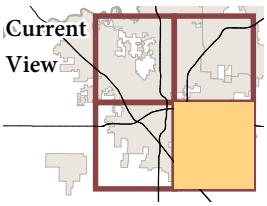
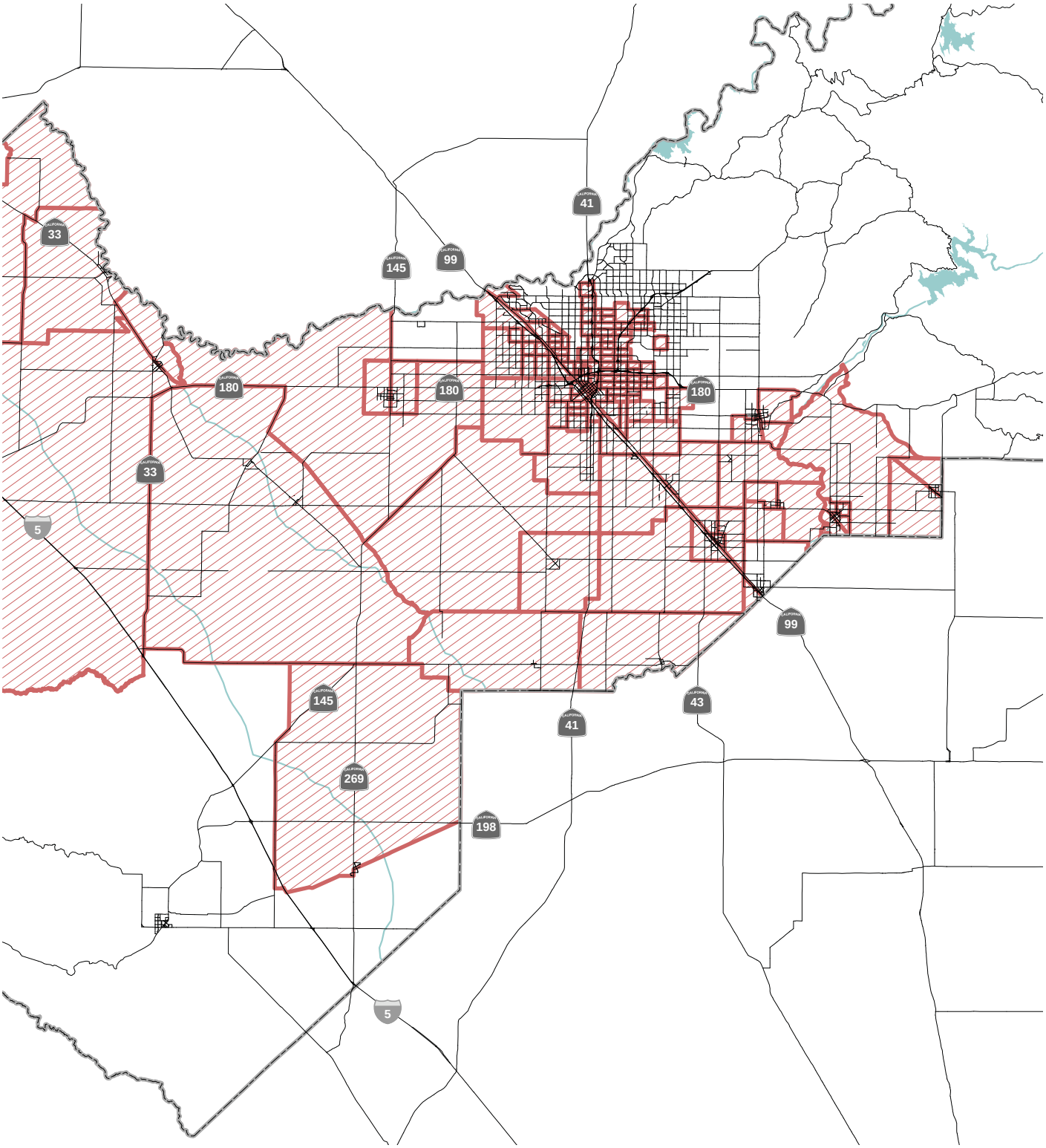
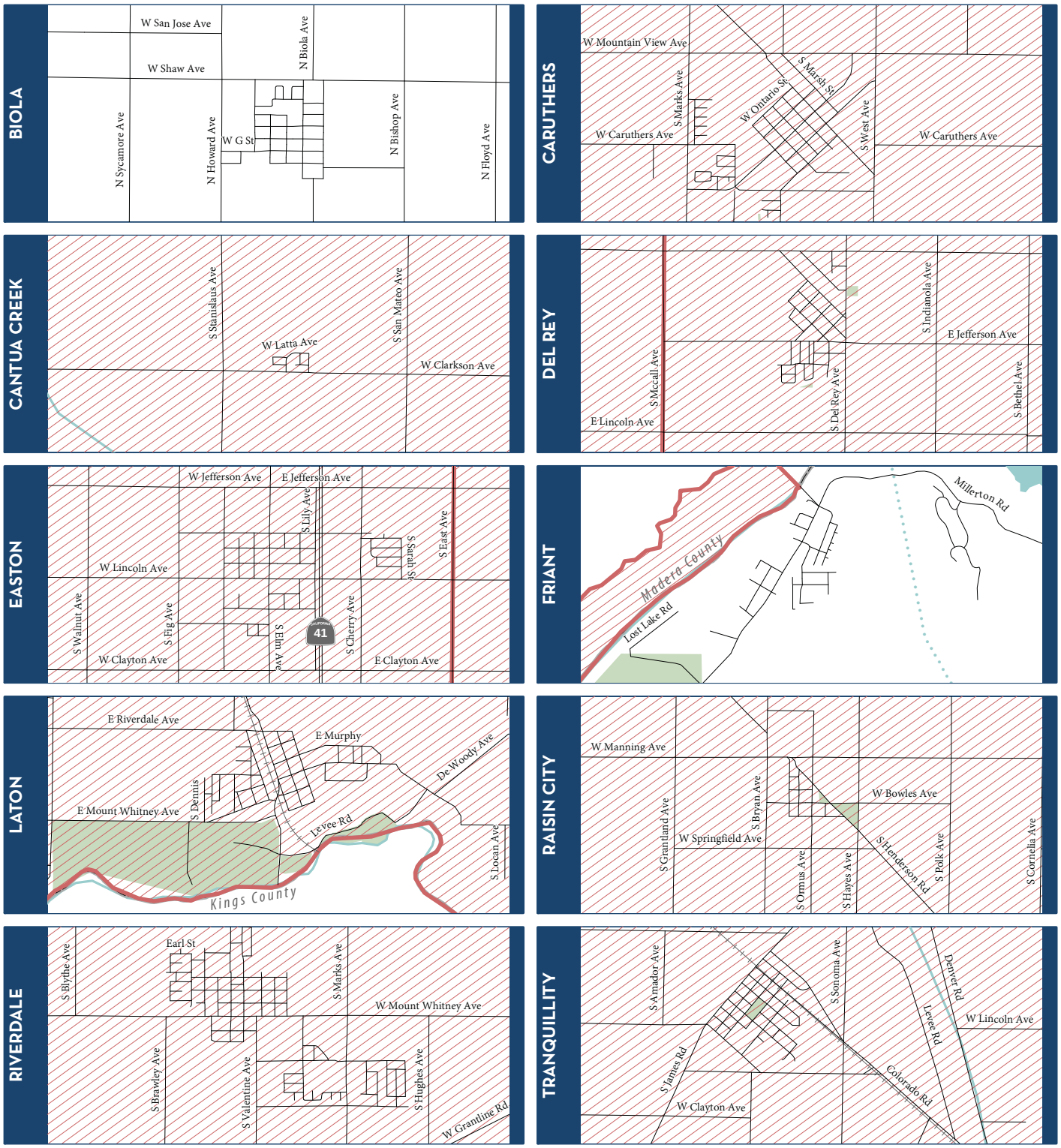


Figure 6-12: Fresno County CalEnviroScreen 3.0 Score



Source: California Office of Environmental Health Hazard Assessment, 2017, Fehr & Peers, 2017

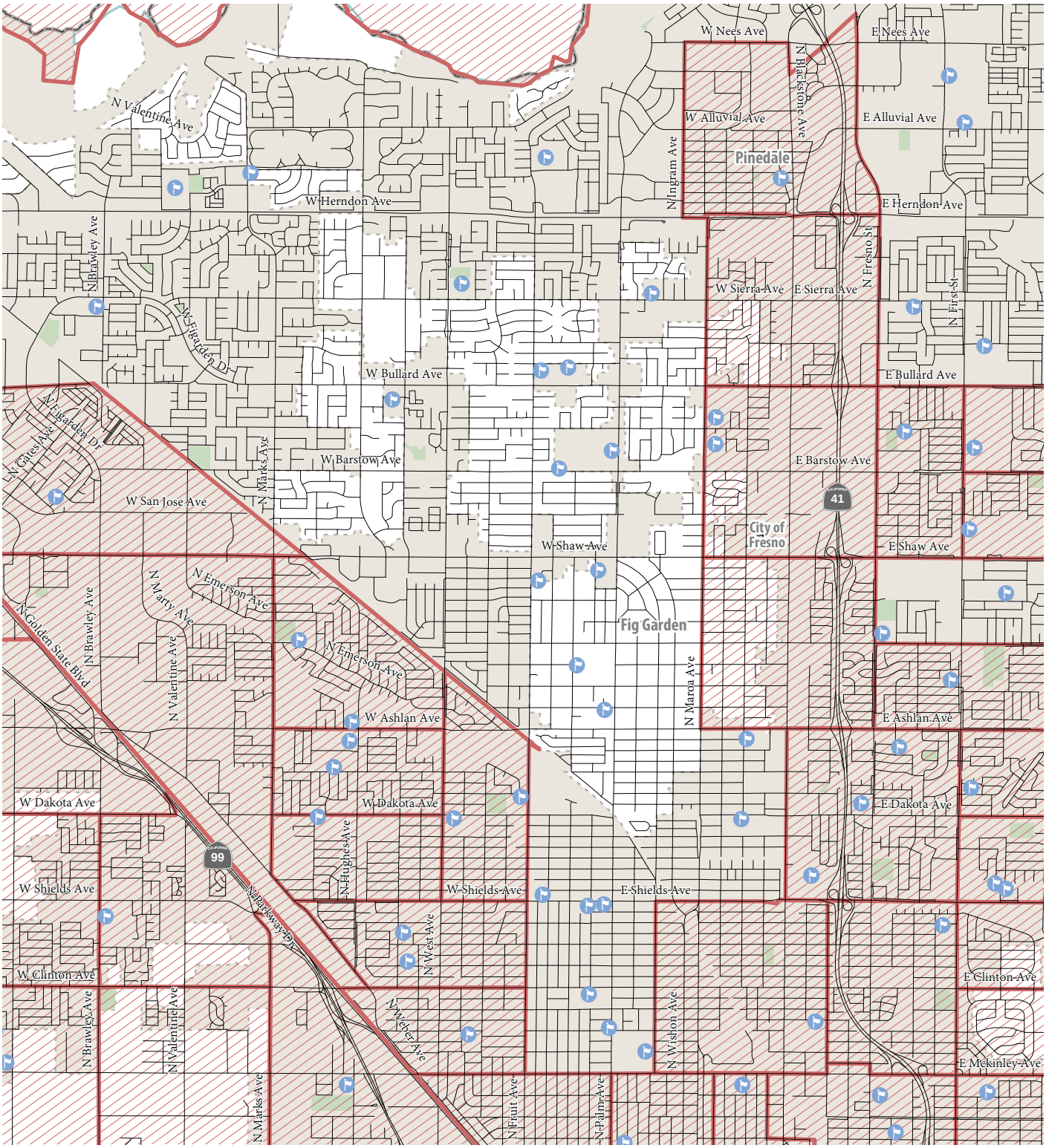
Figure 6-13: Fresno County Unincorporated Communities CalEnviroScreen 3.0 Score



Source: California Office of Environmental Health Hazard Assessment, 2017, Fehr & Peers, 2017

Cal EnviroScreen 3.0
- In Worst Performing 25%
- Railroad
- Waterway
- Canal
- County Boundary
- Park/Open Space
- City Limits

Figure 6-14: Fresno County Unincorporated County Islands CalEnviroScreen 3.0 Score



Source: California Office of Environmental Health Hazard Assessment, 2017, Fehr & Peers, 2017

Cal EnviroScreen 3.0
In Worst Performing 25%
School
Waterway
Canal
Park/Open Space
City Limits
County Boundary

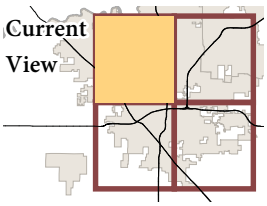
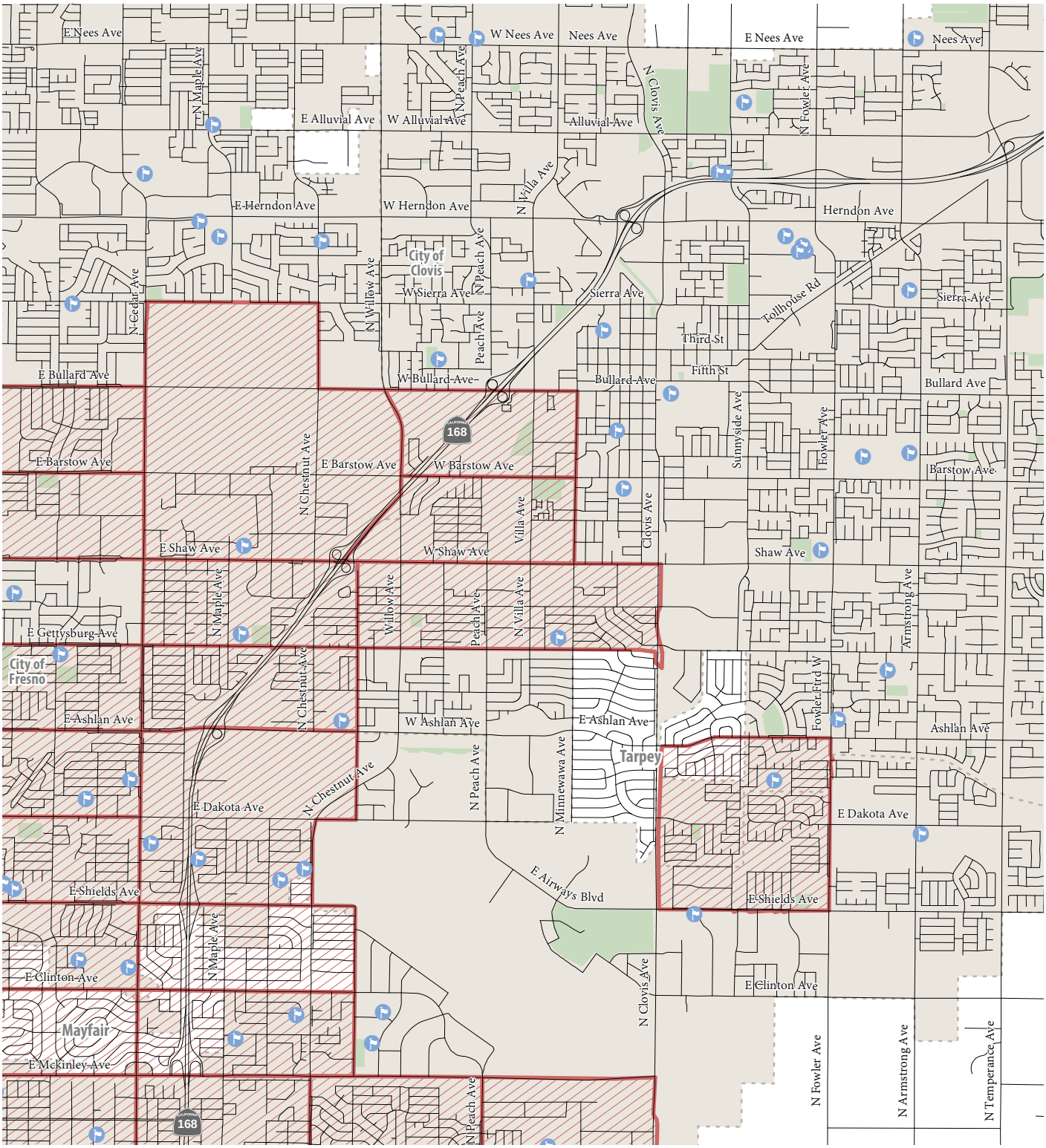


Figure 6-14: Fresno County Unincorporated County Islands CalEnviroScreen 3.0 Score (cont.)



Source: California Office of Environmental Health Hazard Assessment, 2017, Fehr & Peers, 2017

Cal EnviroScreen 3.0
In Worst Performing 25%
School
Waterway
Canal
Park/Open Space
City Limits
County Boundary

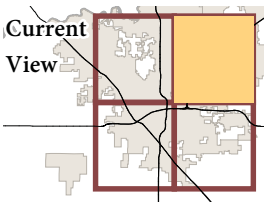
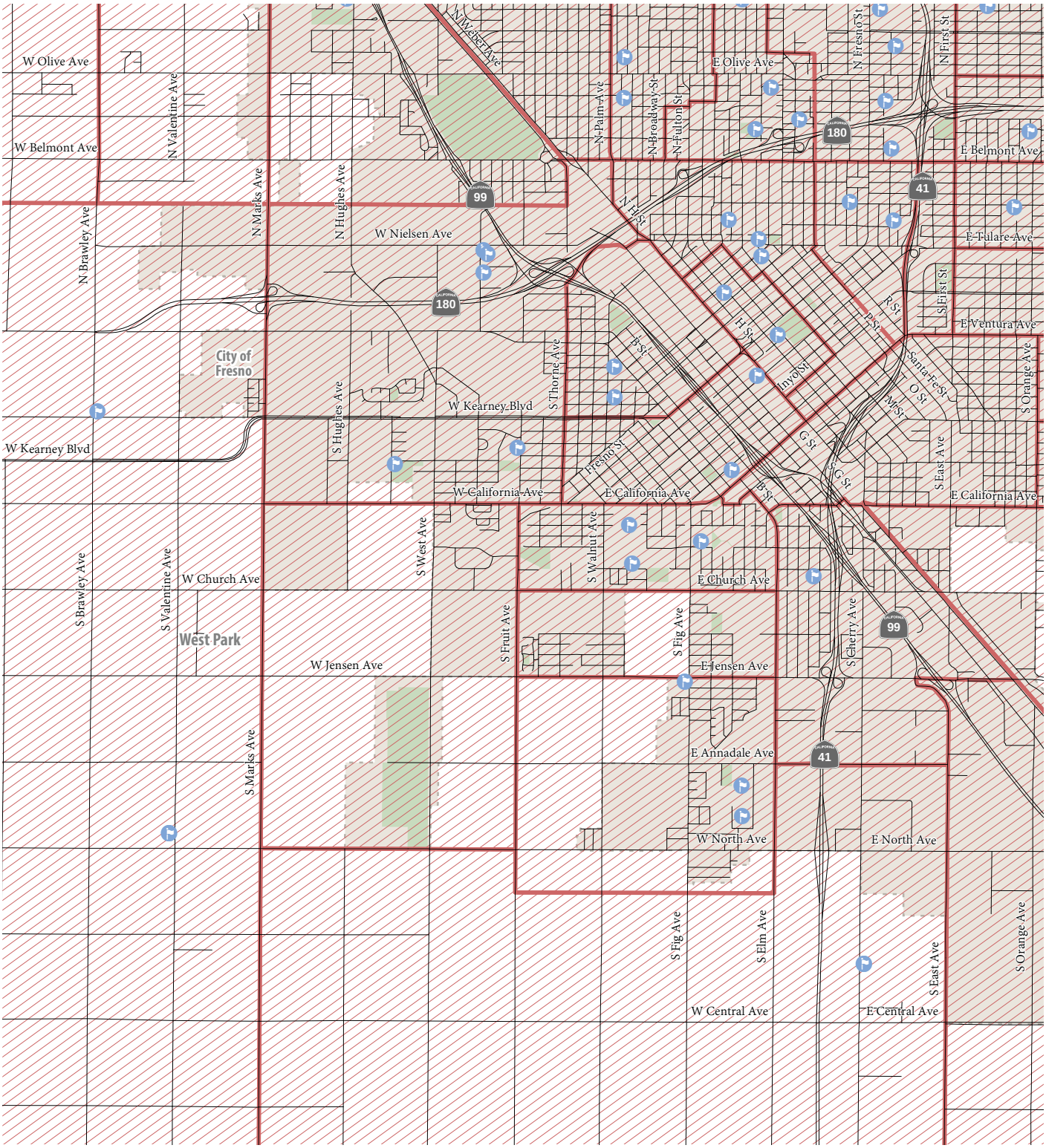


Figure 6-14: Fresno County Unincorporated County Islands CalEnviroScreen 3.0 Score (cont.)



Source: California Office of Environmental Health Hazard Assessment, 2017, Fehr & Peers, 2017

Cal EnviroScreen 3.0
In Worst Performing 25%
School
Waterway
Canal
Park/Open Space
City Limits
County Boundary

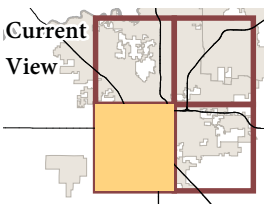
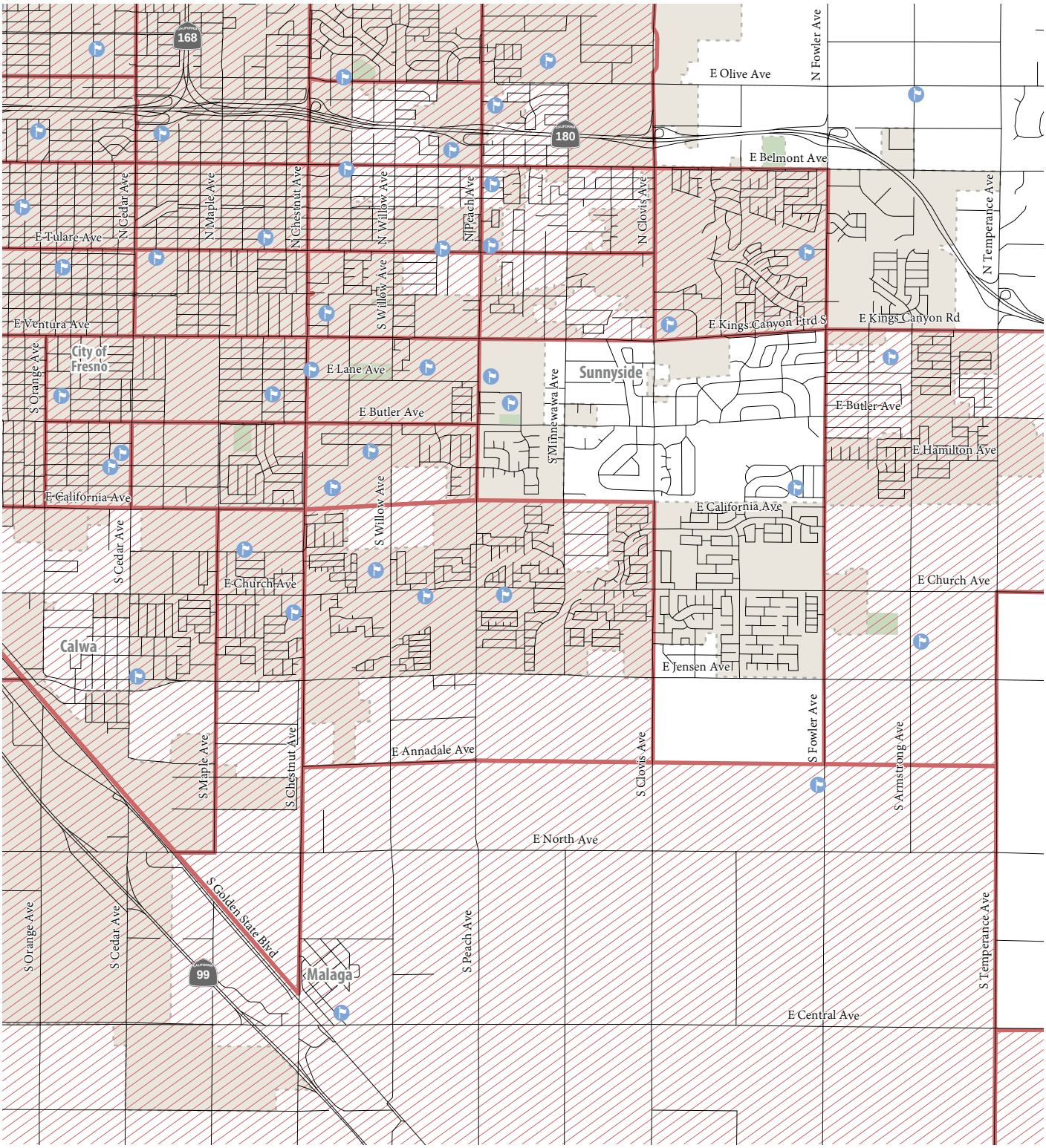


Figure 6-14: Fresno County Unincorporated County Islands CalEnviroScreen 3.0 Score (cont.)



Source: California Office of Environmental Health Hazard Assessment, 2017, Fehr & Peers, 2017

Cal EnviroScreen 3.0
In Worst Performing 25%
School
Waterway
Canal
Park/Open Space
City Limits
County Boundary

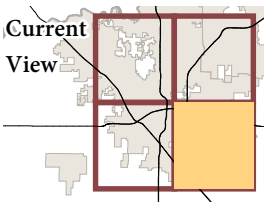
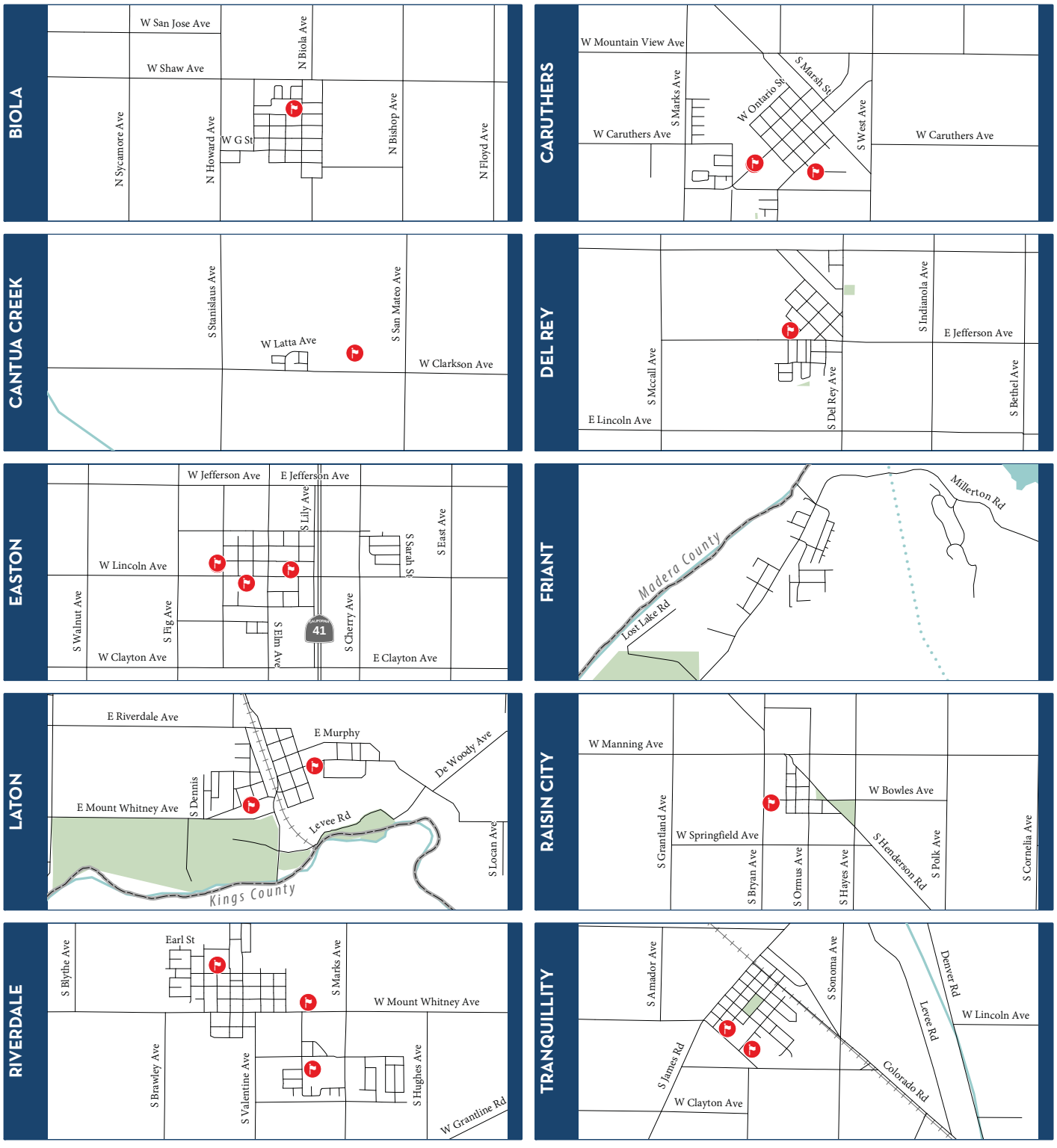


Figure 6-15: Fresno County Unincorporated Communities Free or Reduced Price Meal Eligibility



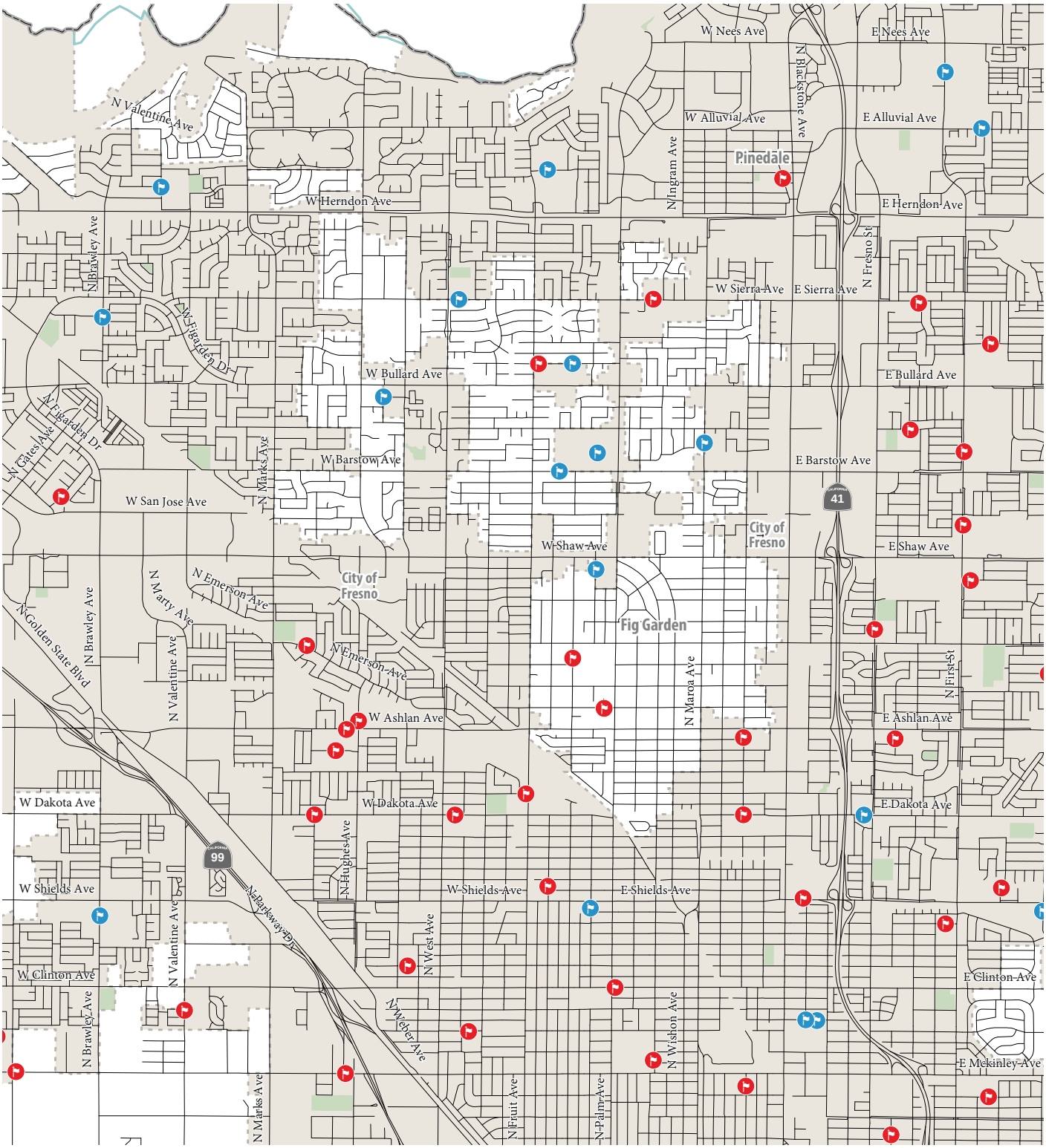
Percent of Students Eligible for Free or Reduced Price Meals

- 0% to 75%
- More than 75%

- Railroad
- Waterway
- Canal
- County Boundary
- Park/Open Space
- City Limits

Sources: California Department of Education, 2017, Fehr & Peers, 2017

Figure 6-16: Fresno County Unincorporated County Islands Free or Reduced Price Meal Eligibility



Sources: California Department of Education, 2017, Fehr & Peers, 2017

Percent of Students Eligible for Free or Reduced Price Meals

- 0% to 75%
- More than 75%

- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

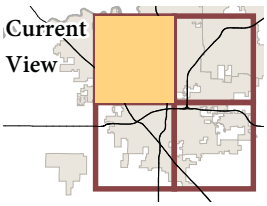
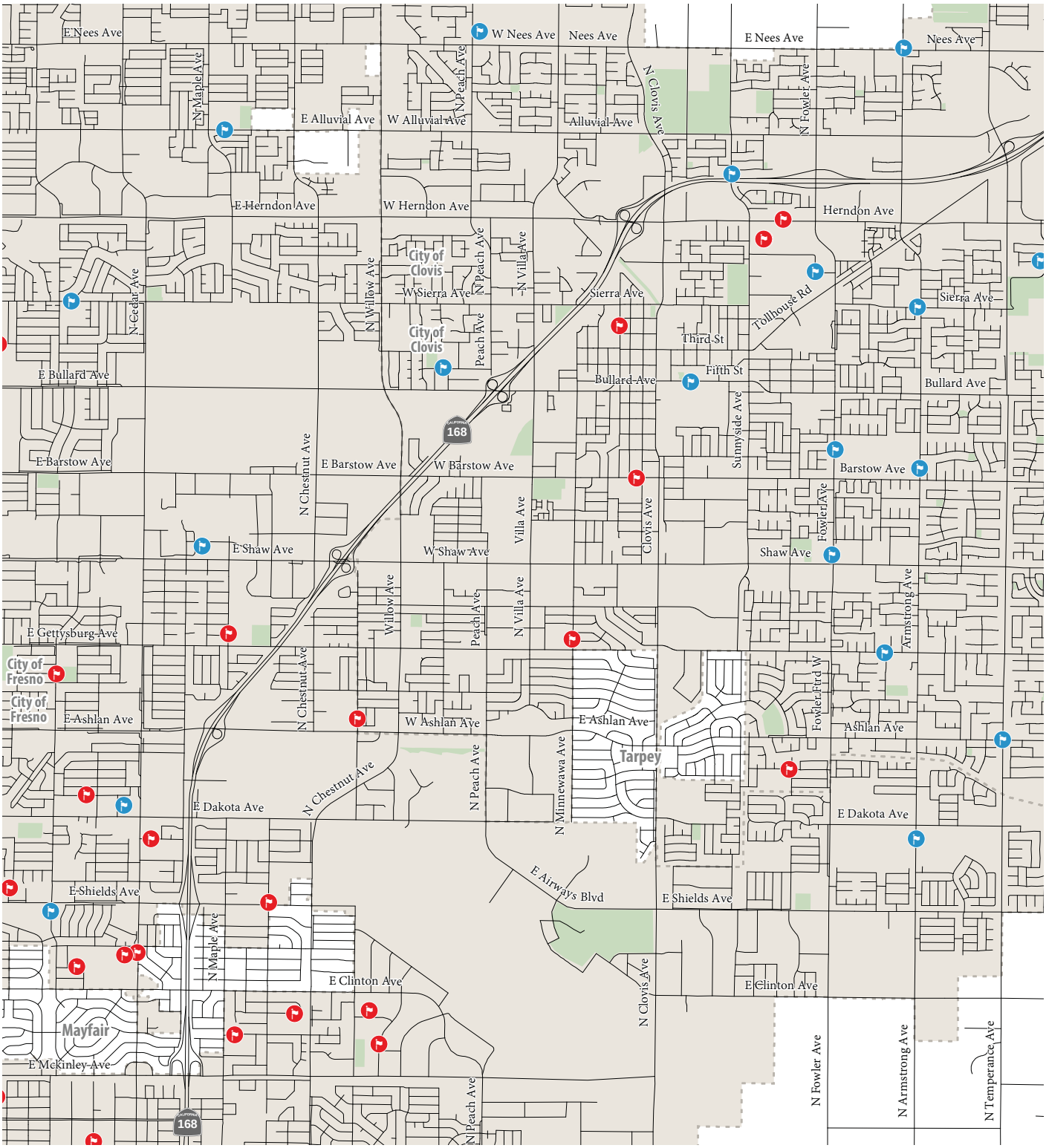


Figure 6-16: Fresno County Unincorporated County Islands Free or Reduced Price Meal Eligibility (continued)



Sources: California Department of Education, 2017, Fehr & Peers, 2017

Percent of Students Eligible for Free or Reduced Price Meals

- 0% to 75%
- More than 75%

- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

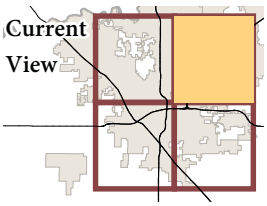
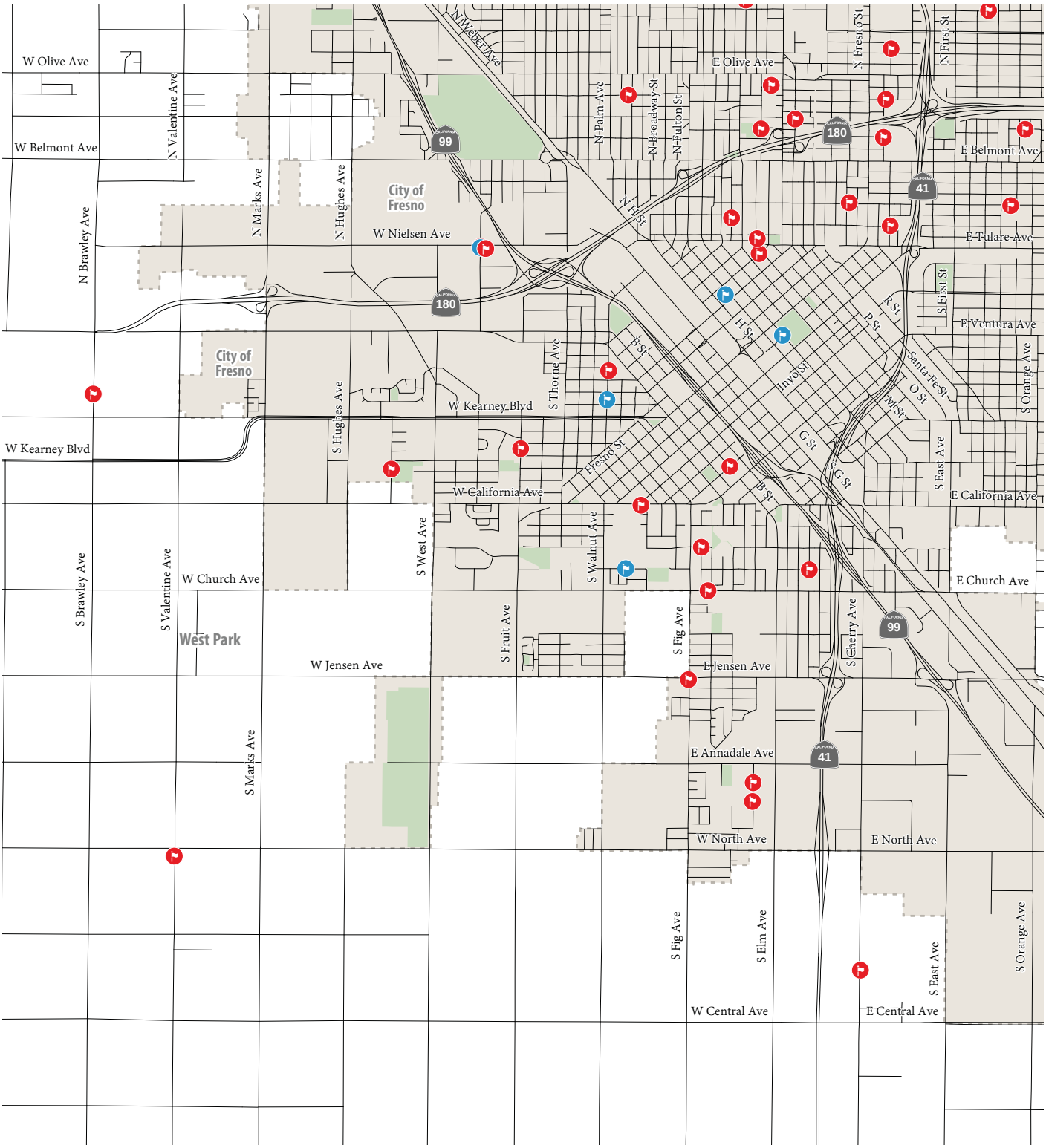


Figure 6-16: Fresno County Unincorporated County Islands Free or Reduced Price Meal Eligibility (continued)



Sources: California Department of Education, 2017, Fehr & Peers, 2017

Percent of Students Eligible for Free or Reduced Price Meals

- 0% to 75%
- More than 75%

- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

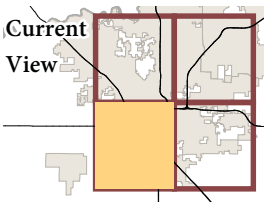
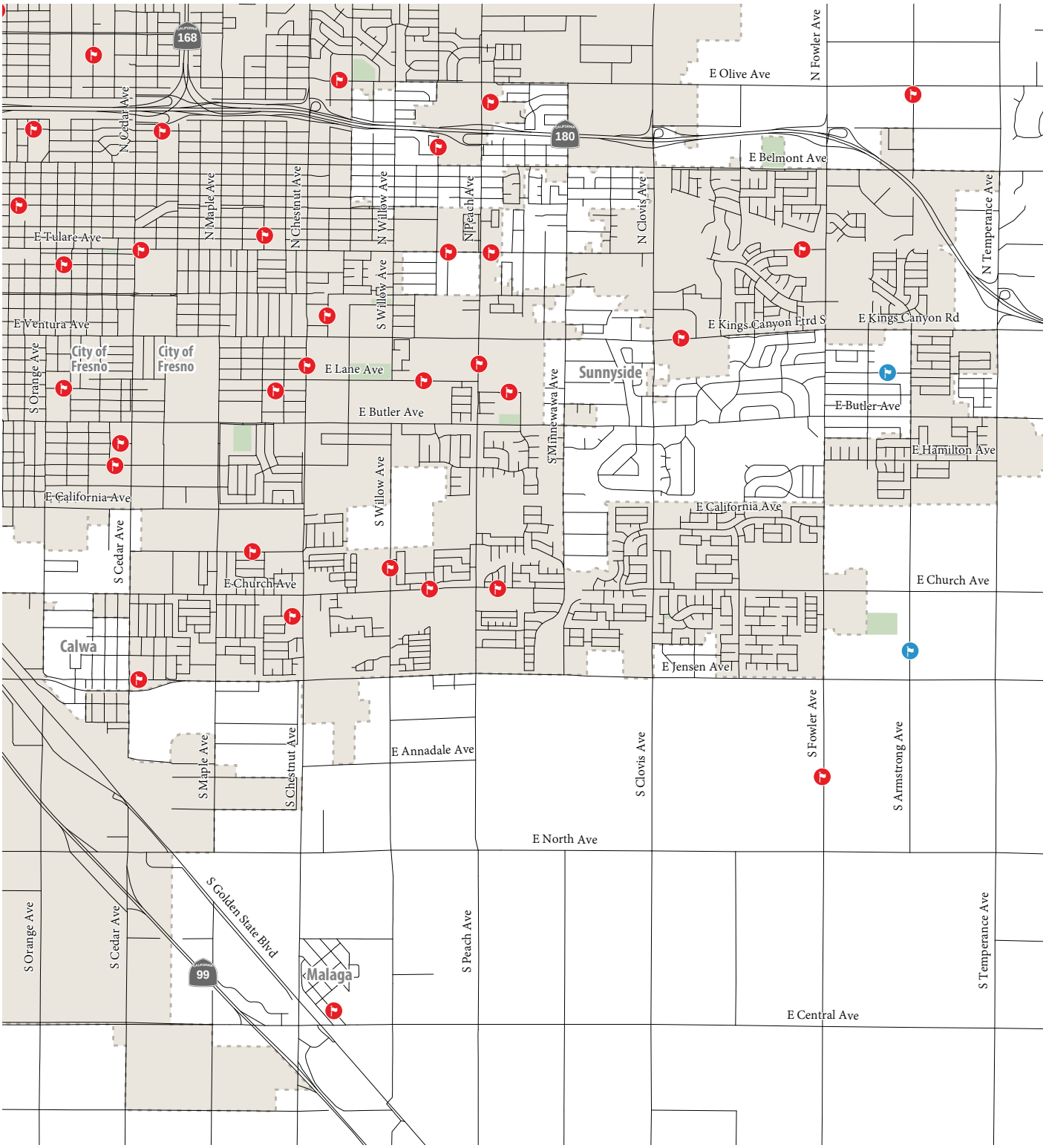


Figure 6-16: Fresno County Unincorporated County Islands Free or Reduced Price Meal Eligibility (continued)



Sources: California Department of Education, 2017, Fehr & Peers, 2017

Percent of Students Eligible for Free or Reduced Price Meals

- 0% to 75%
- More than 75%

- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

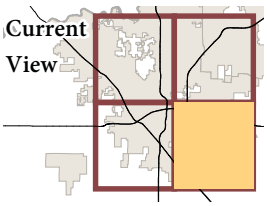
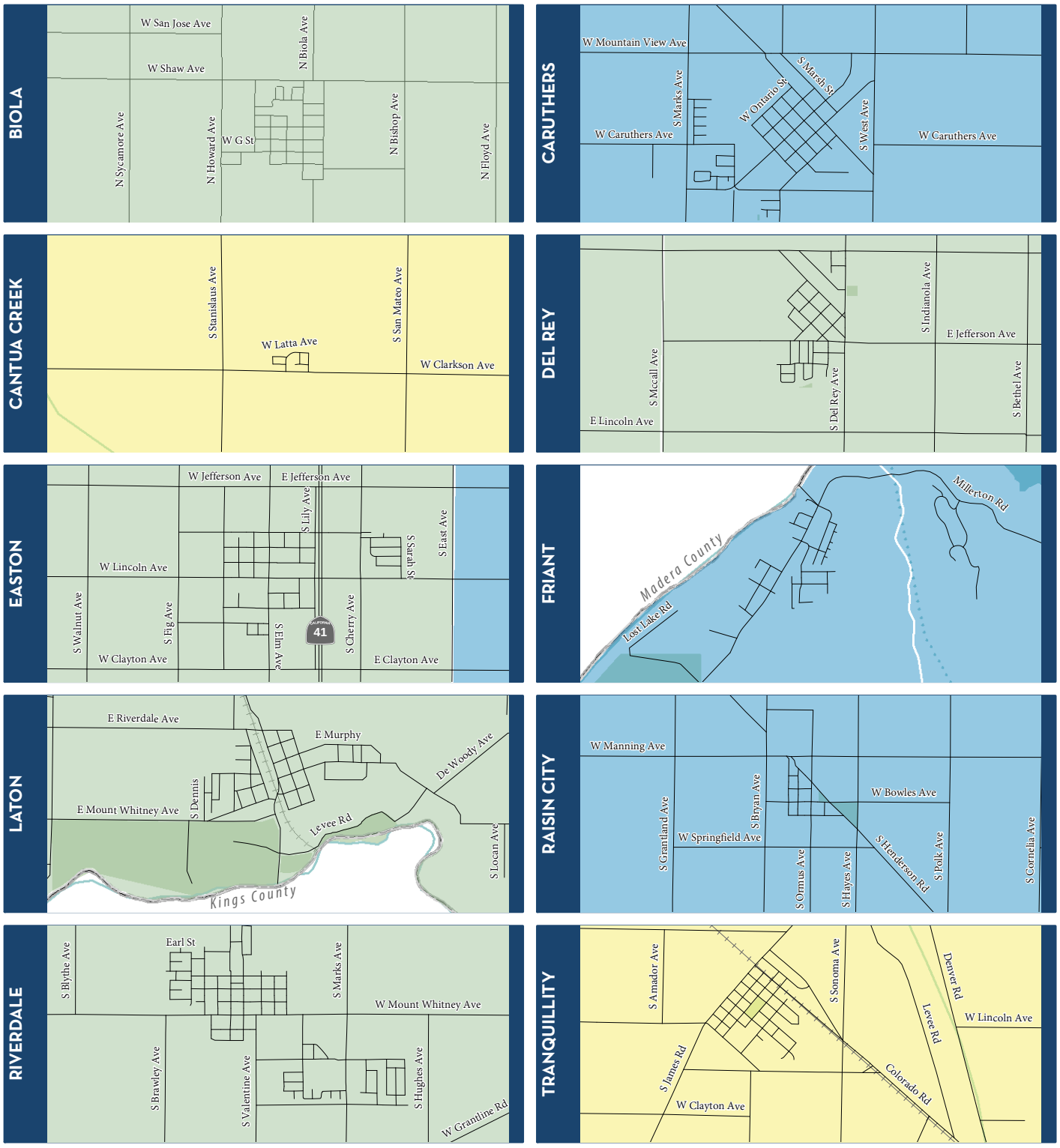
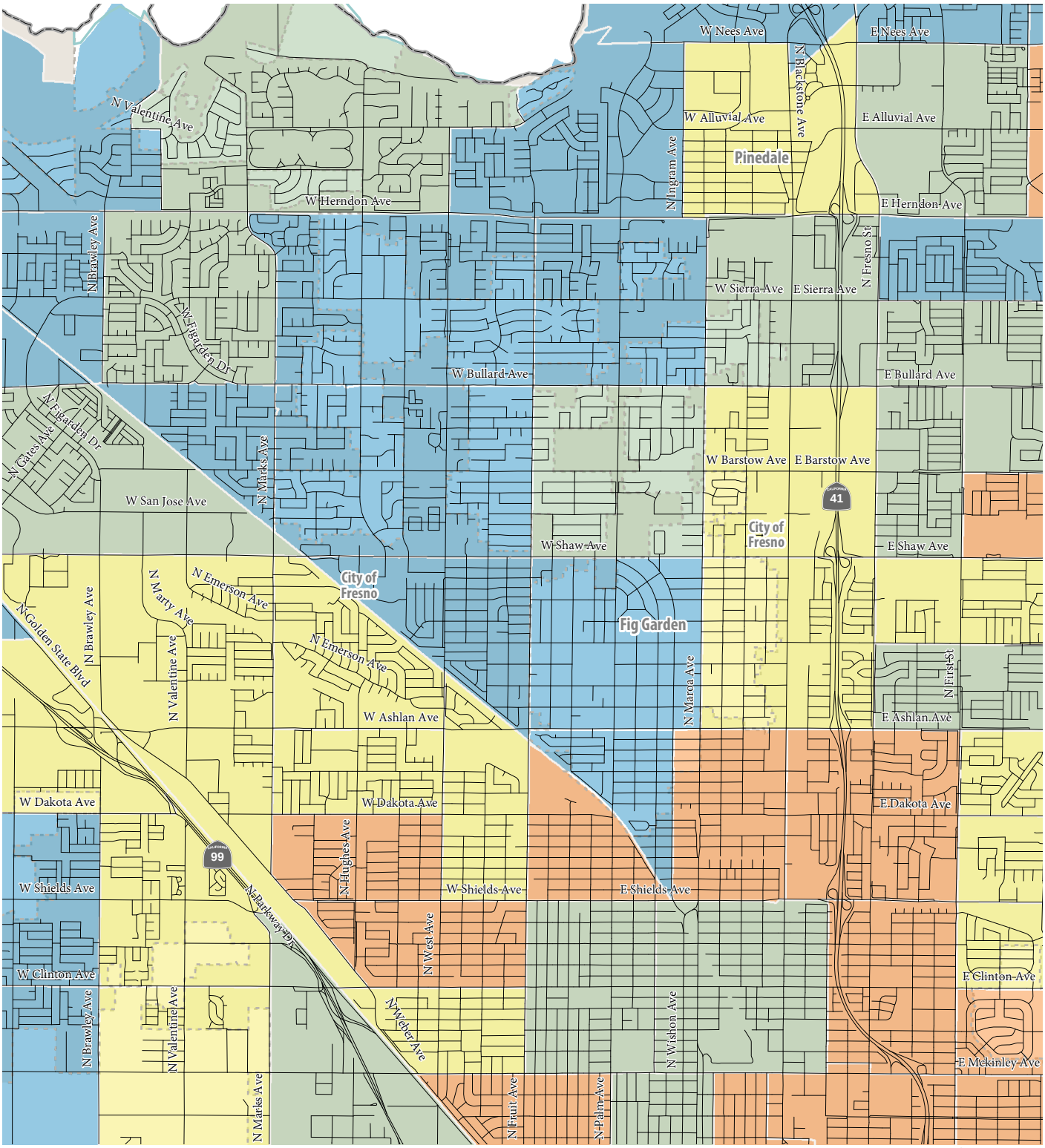


Figure 6-17: Fresno County Unincorporated Communities Zero Automobile Households



Sources: U.S. Census 2011-2015 American Community Survey, 2016, Fehr & Peers, 2017

Figure 6-18: Fresno County Unincorporated County Islands Zero Automobile Households



Sources: U.S. Census 2011-2015 American Community Survey, 2016, Fehr & Peers, 2017

Percent of Zero-Car Households in Census Tract

- 0% to 5%
- 5% to 10%
- 10% to 15%
- 15% to 20%
- More than 20%

- Waterway
- Canal
- City Limits
- County Boundary

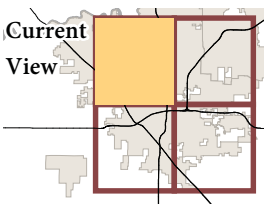
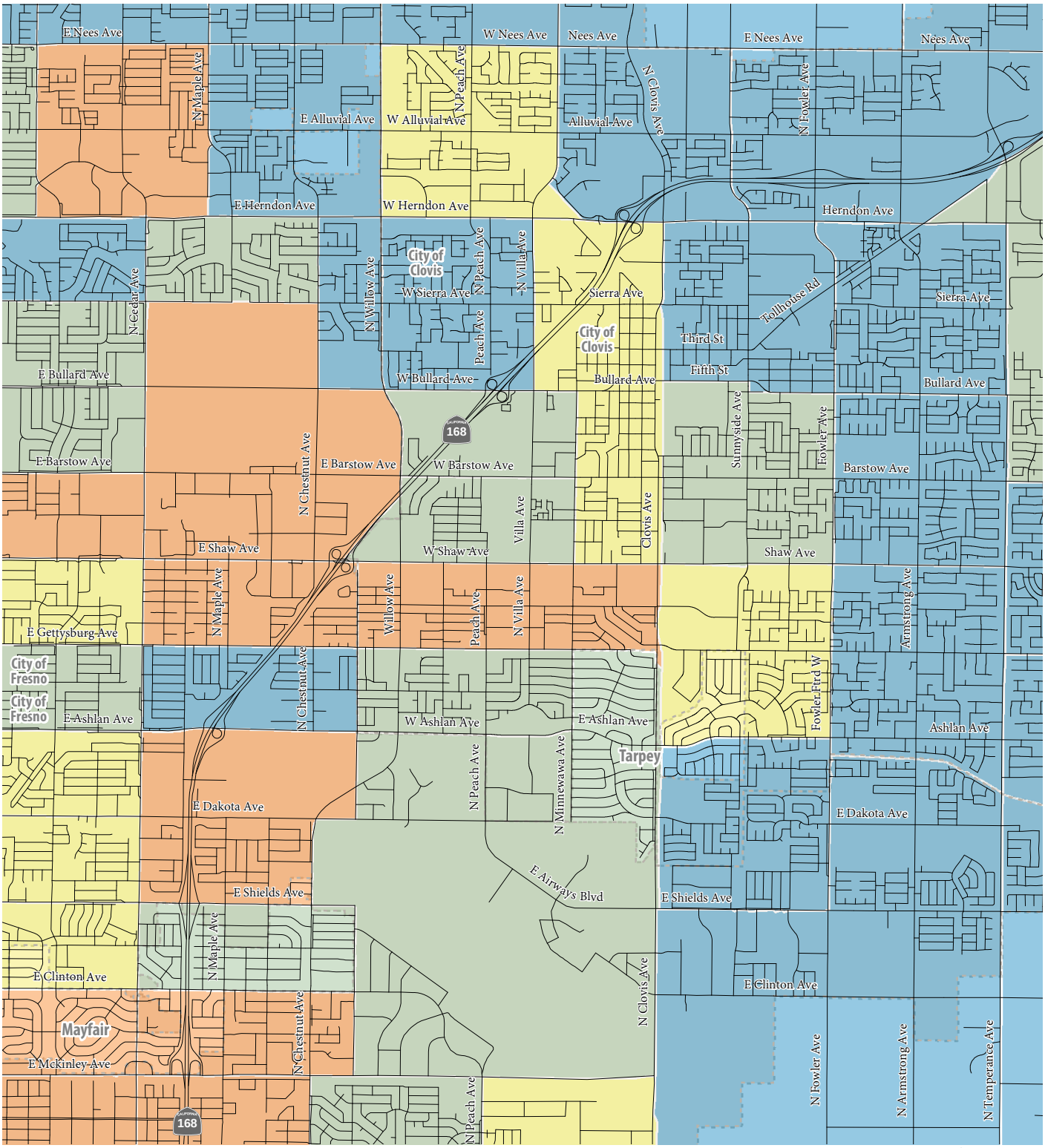


Figure 6-18: Fresno County Unincorporated County Islands Zero Automobile Households (cont.



Sources: U.S. Census 2011-2015 American Community Survey, 2016, Fehr & Peers, 2017

Percent of Zero-Car Households in Census Tract

- 0% to 5%
- 5% to 10%
- 10% to 15%
- 15% to 20%
- More than 20%
- Waterway
- Canal
- City Limits
- County Boundary

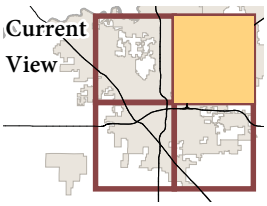
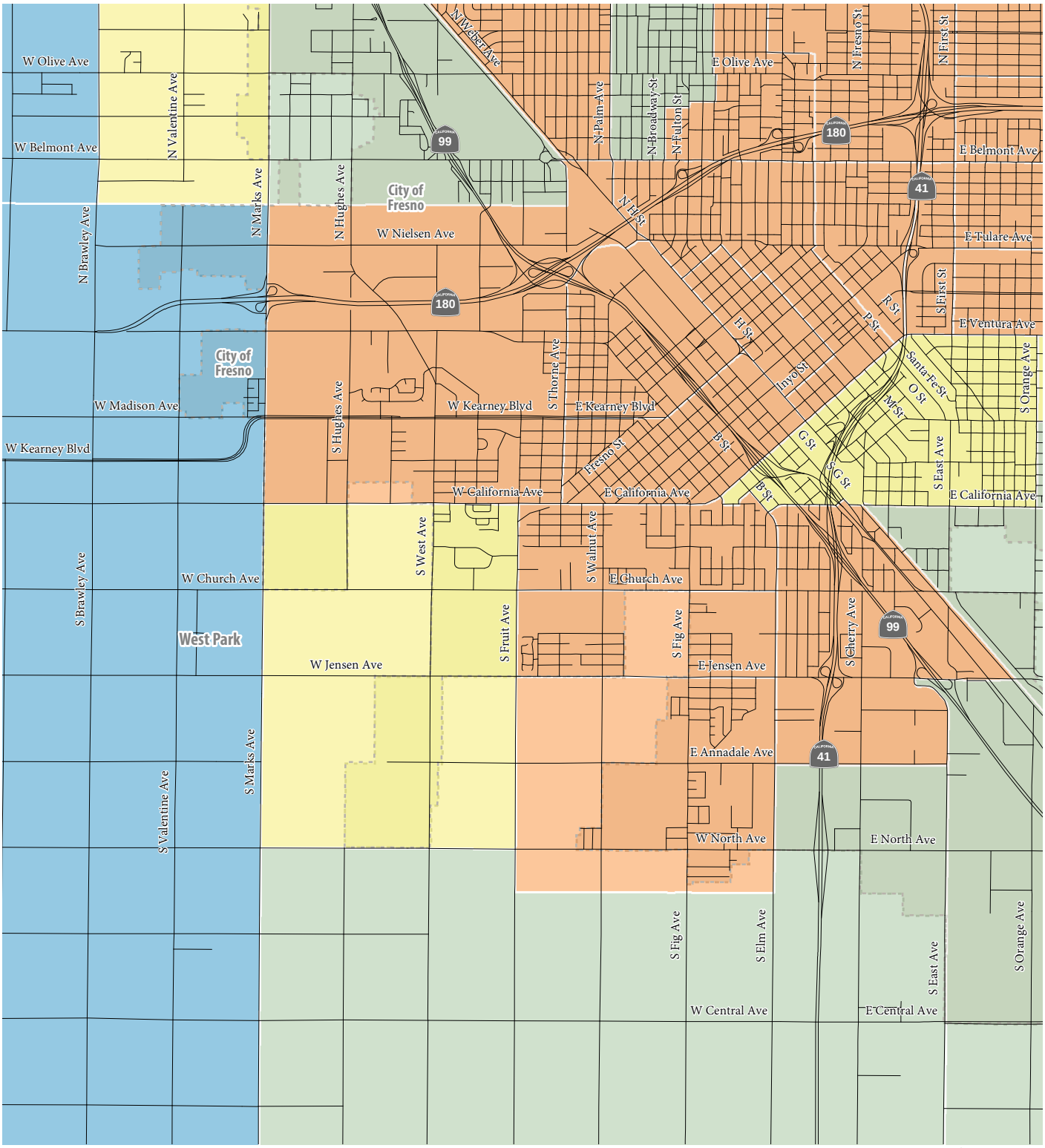


Figure 6-18: Fresno County Unincorporated County Islands Zero Automobile Households (cont.)



Sources: U.S. Census 2011-2015 American Community Survey, 2016, Fehr & Peers, 2017

Percent of Zero-Car Households in Census Tract

- 0% to 5%
- 5% to 10%
- 10% to 15%
- 15% to 20%
- More than 20%

- Waterway
- Canal
- City Limits
- County Boundary

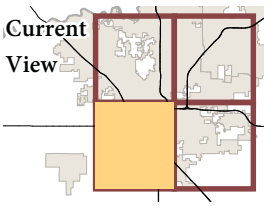
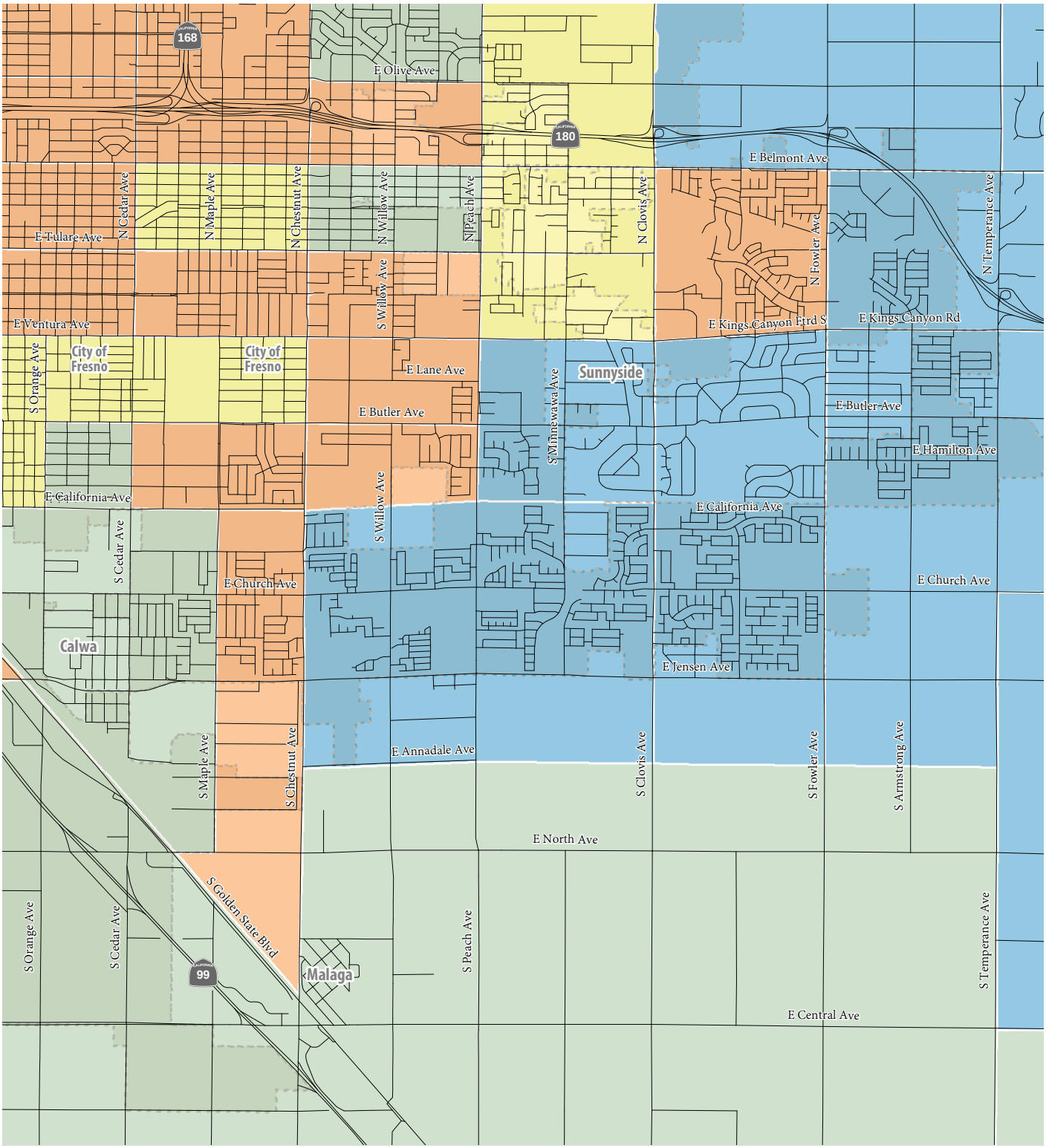


Figure 6-18: Fresno County Unincorporated County Islands Zero Automobile Households (cont.)

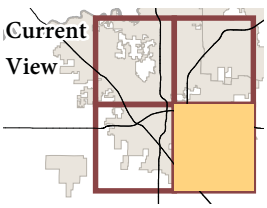


Sources: U.S. Census 2011-2015 American Community Survey, 2016, Fehr & Peers, 2017

Percent of Zero-Car Households in Census Tract

- 0% to 5%
- 5% to 10%
- 10% to 15%
- 15% to 20%
- More than 20%

- Waterway
- Canal
- City Limits
- County Boundary



Existing Trips

Based on data collected through the U.S. Census American Community Survey, approximately 0.9% of Fresno County (including incorporated and unincorporated areas) workers commute to work by bicycling and 1.9% commute to work by walking. These shares are much lower than the statewide averages, as shown in Table 6-2. However, these statistics only include workers who walk or ride every day, not those who do so occasionally. Reliable data on non-commute trips, including trips to school, trips for shopping, and recreational trips is not readily available and not included in these estimates. Thus, the total number of biking and walking trips in Fresno County is higher than shown here.

Table 6-2: Fresno County Trips to Work by Bicycling and Walking

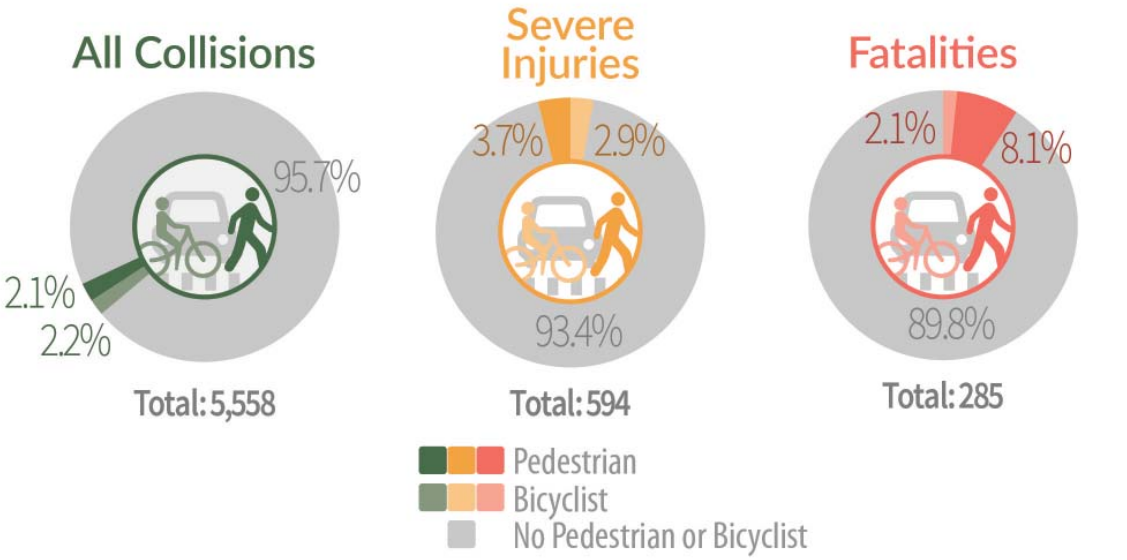
Jurisdiction	Bicycle		Walk	
	Estimate	Share	Estimate	Share
Fresno County	3,182	0.9%	6,704	1.9%
California	188,736	1.2%	458,5623	2.9%

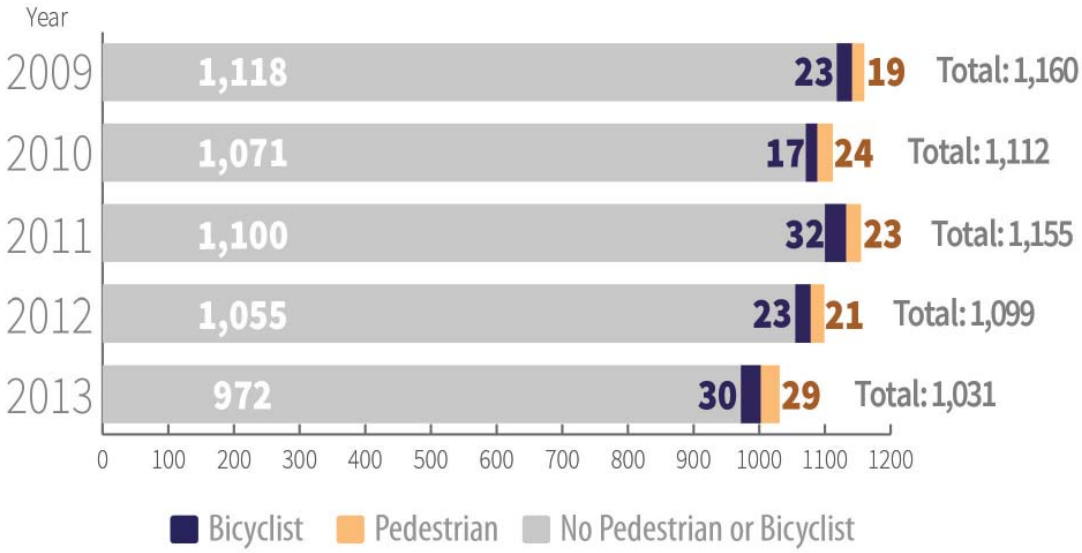
Note: Workers aged 16 years and older, excludes percentage of employees that work from home.
Source: U.S. Census 2011-2015 American Community Survey, 2016; Fehr & Peers, 2017

Crosswalk with in-pavement flashers in Riverdale.

Collisions

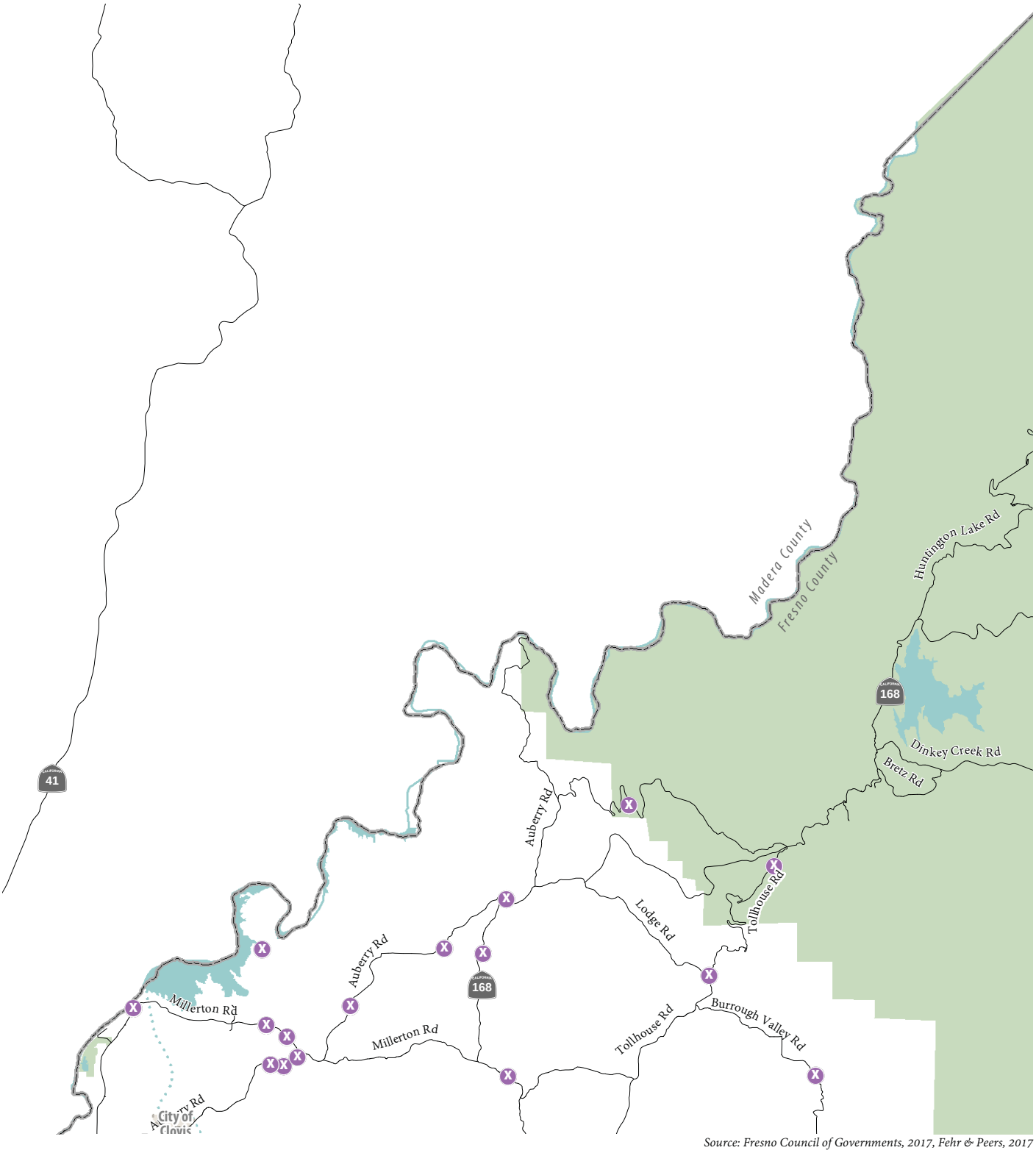
The graphics shown below summarize injury collisions involving bicyclists and pedestrians by severity and year. Figures 6-19, 6-20 and 6-22 show locations of injury collisions involving bicyclists and Figures 6-21 and 6-23 show locations of injury collisions involving pedestrians.





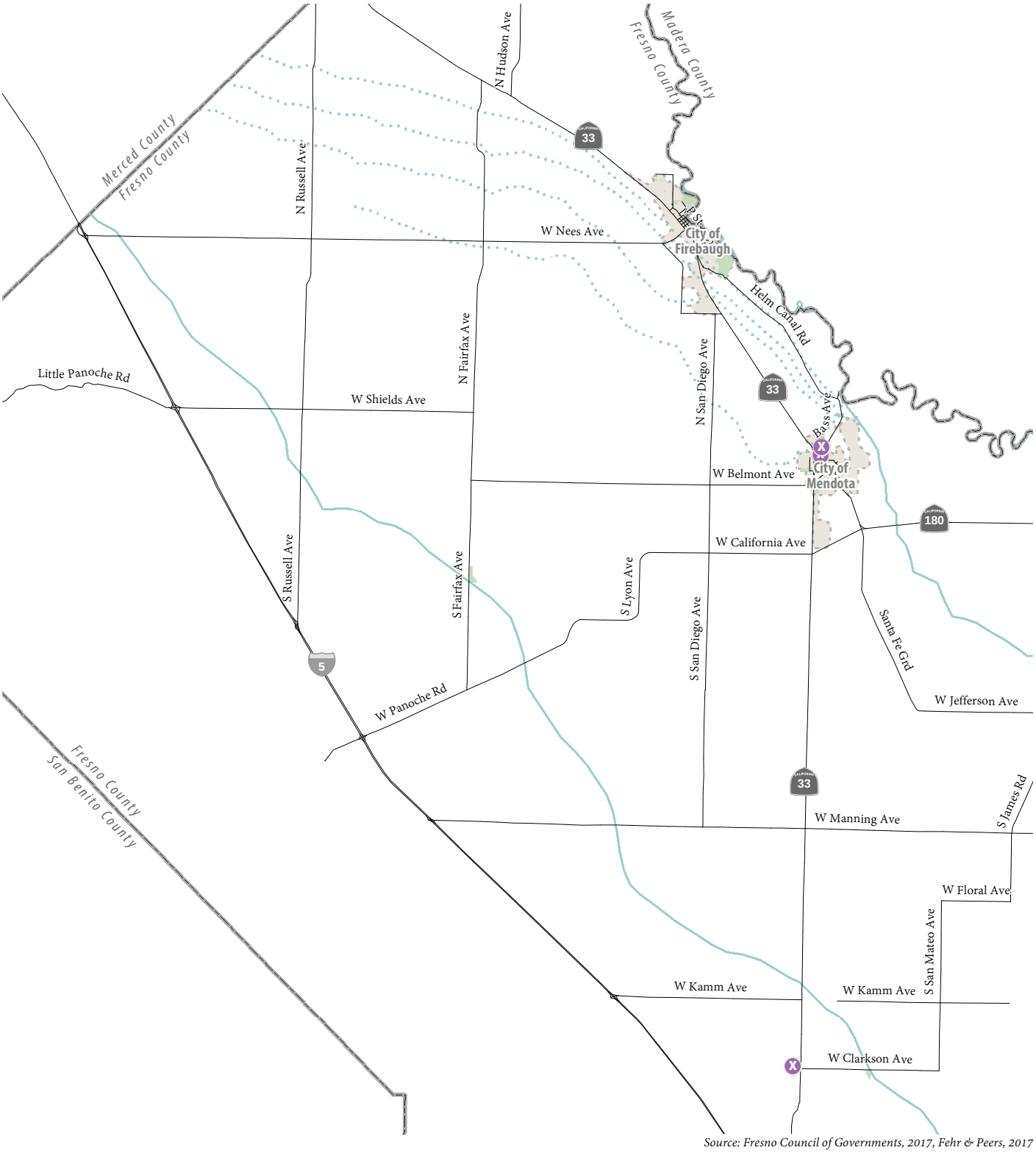
Sources: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Figure 6-19: Fresno County Collisions Involving Bicyclists, 2009-2013



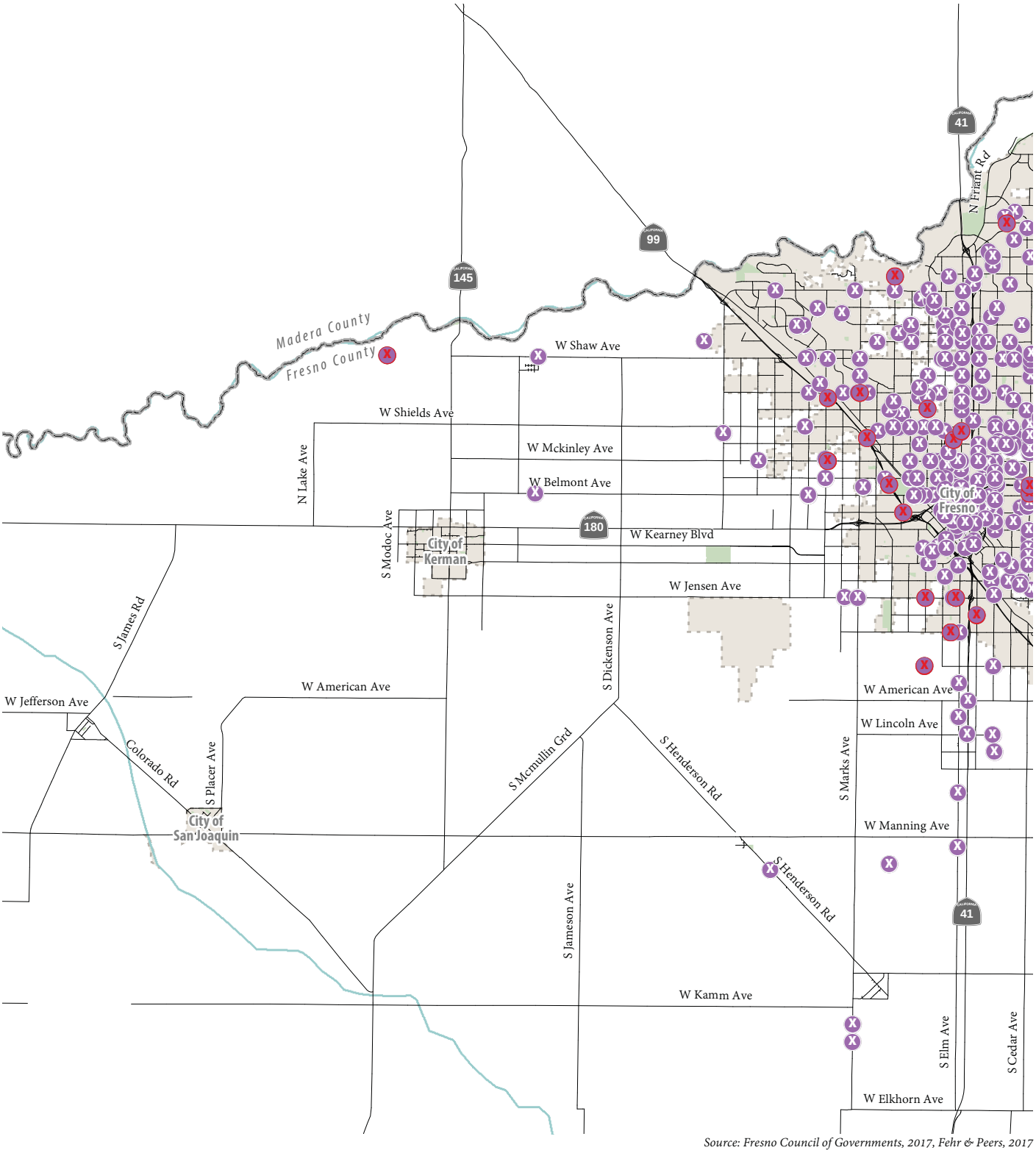
Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-19: Fresno County Collisions Involving Bicyclists, 2009-2013 (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-19: Fresno County Collisions Involving Bicyclists, 2009-2013 (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Bicyclist Collision (Injury)
Bicyclist Collision (Fatality)
Waterway
Canal
Park/Open Space
City Limits
County Boundary

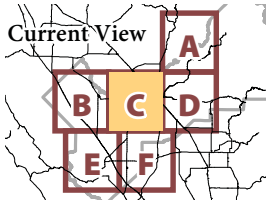
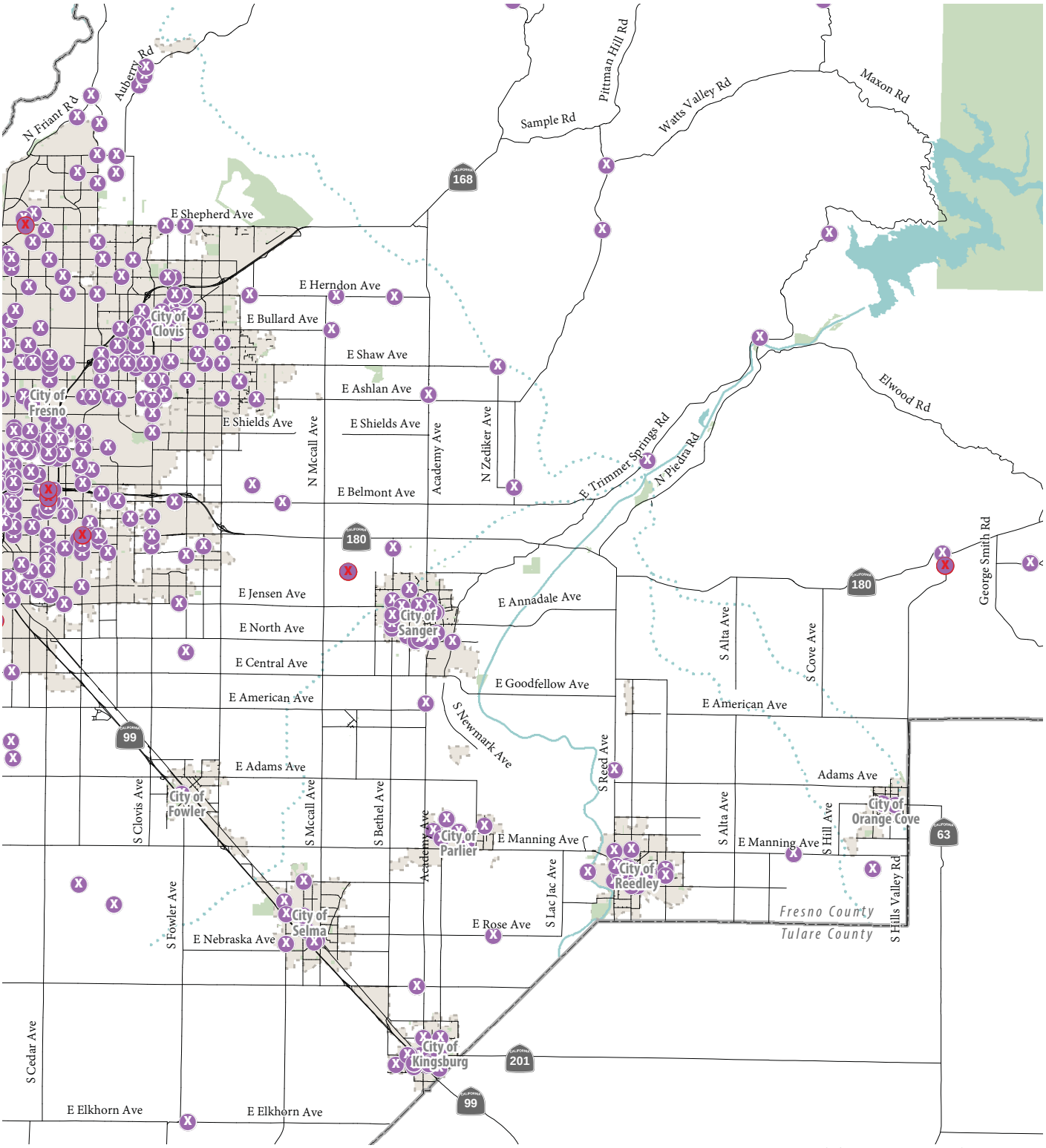


Figure 6-19: Fresno County Collisions Involving Bicyclists, 2009-2013 (continued)

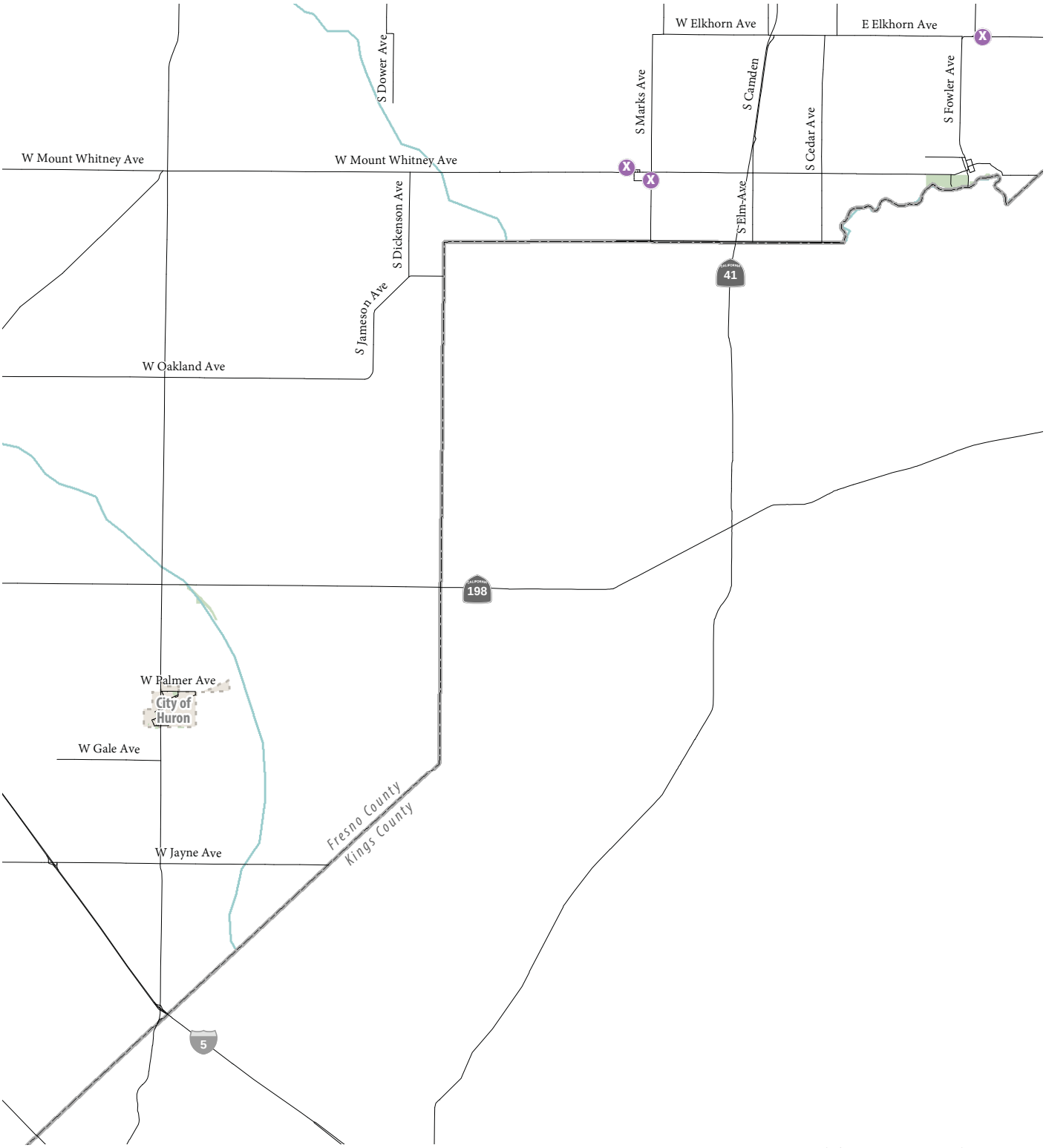


Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-19: Fresno County Collisions Involving Bicyclists, 2009-2013 (continued)

Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-19: Fresno County Collisions Involving Bicyclists, 2009-2013 (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

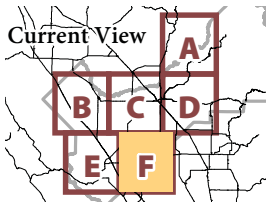
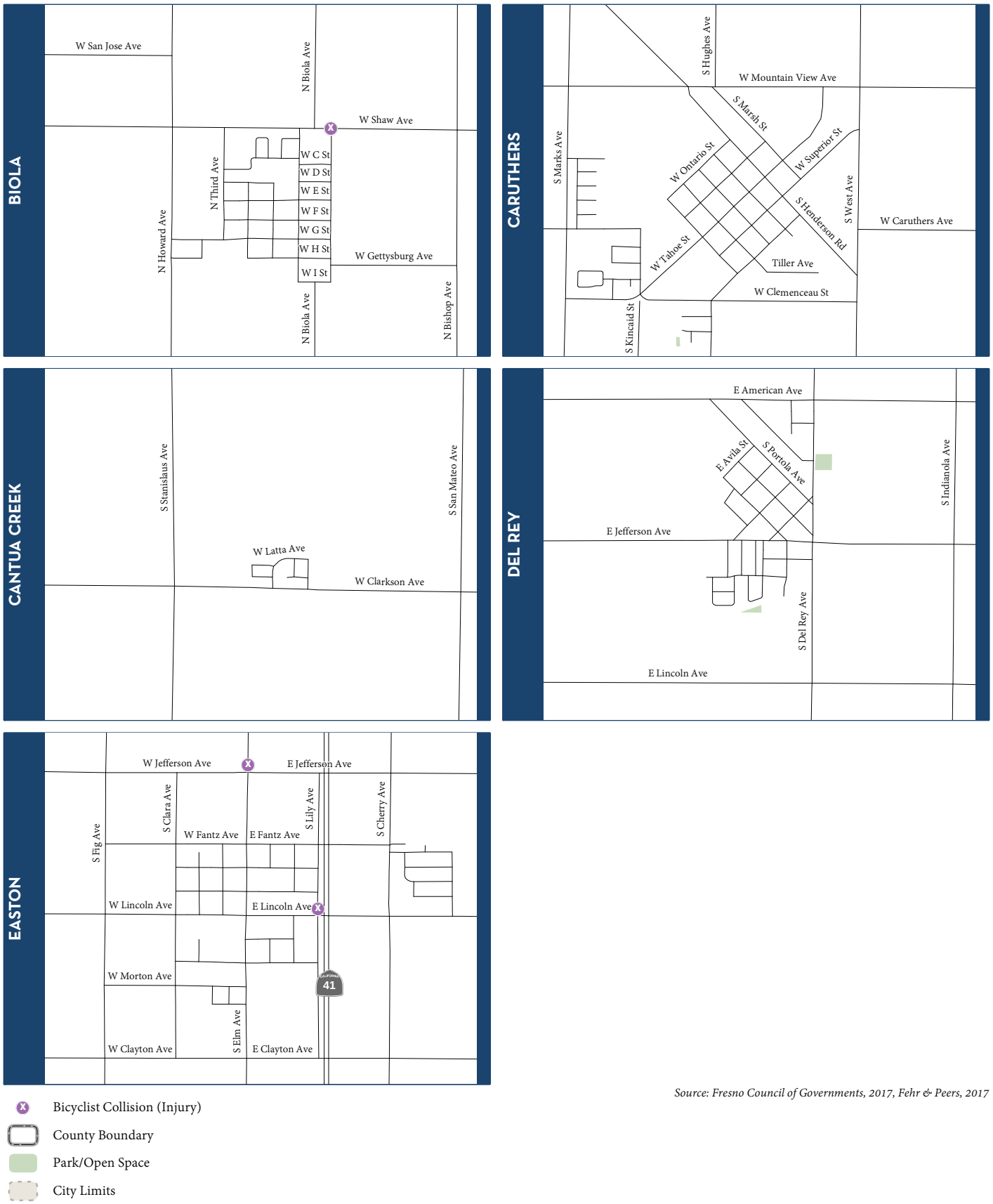


Figure 6-20: Fresno County Unincorporated Community Collisions Involving Bicyclists, 2009-2013

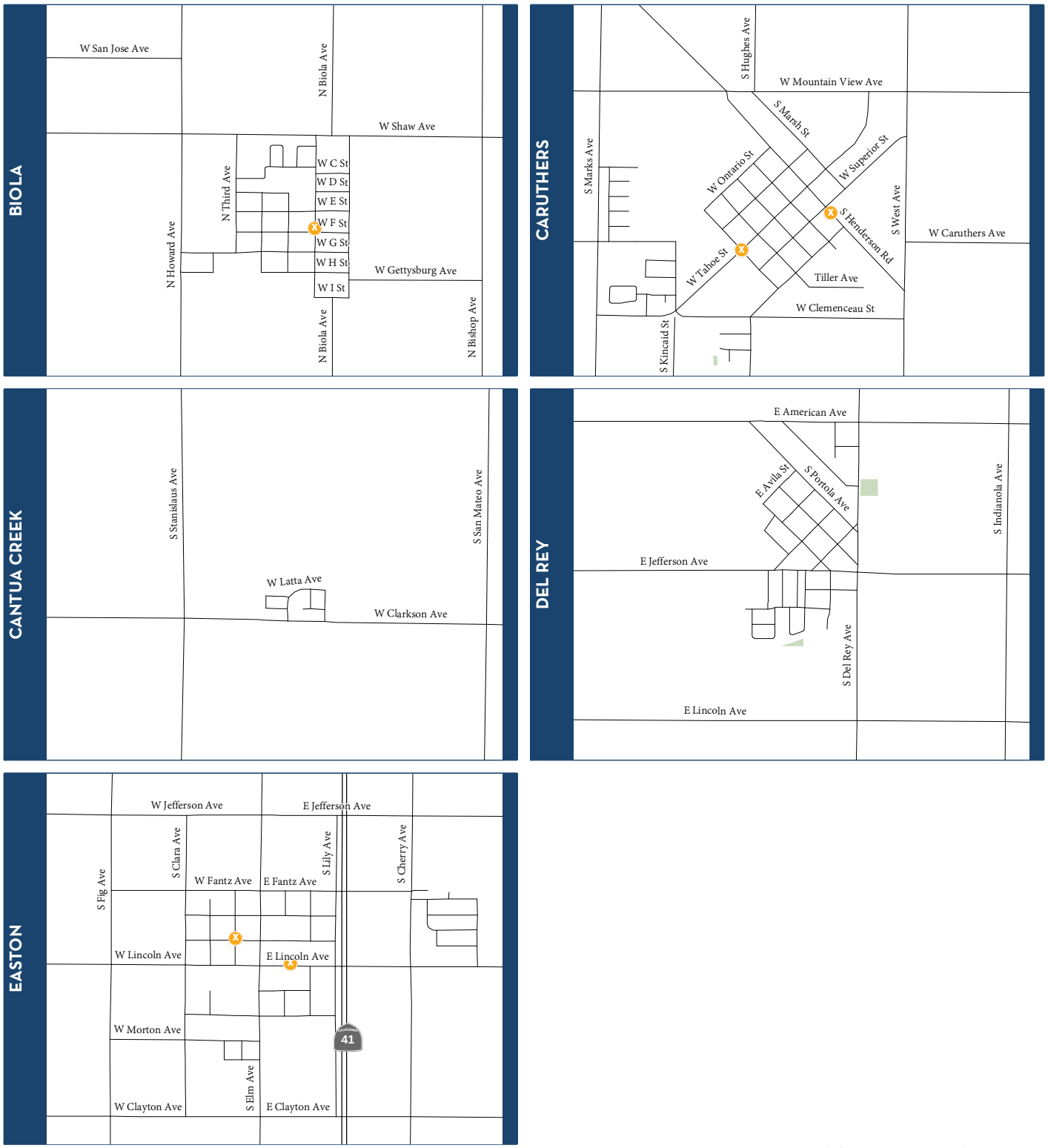


Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-20: Fresno County Unincorporated Community Collisions Involving Bicyclists, 2009-2013 (continued)

Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-21: Fresno County Unincorporated Community Collisions Involving Pedestrians, 2009-2013



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-21: Fresno County Unincorporated Community Collisions Involving Pedestrians, 2009-2013 (continued)

Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

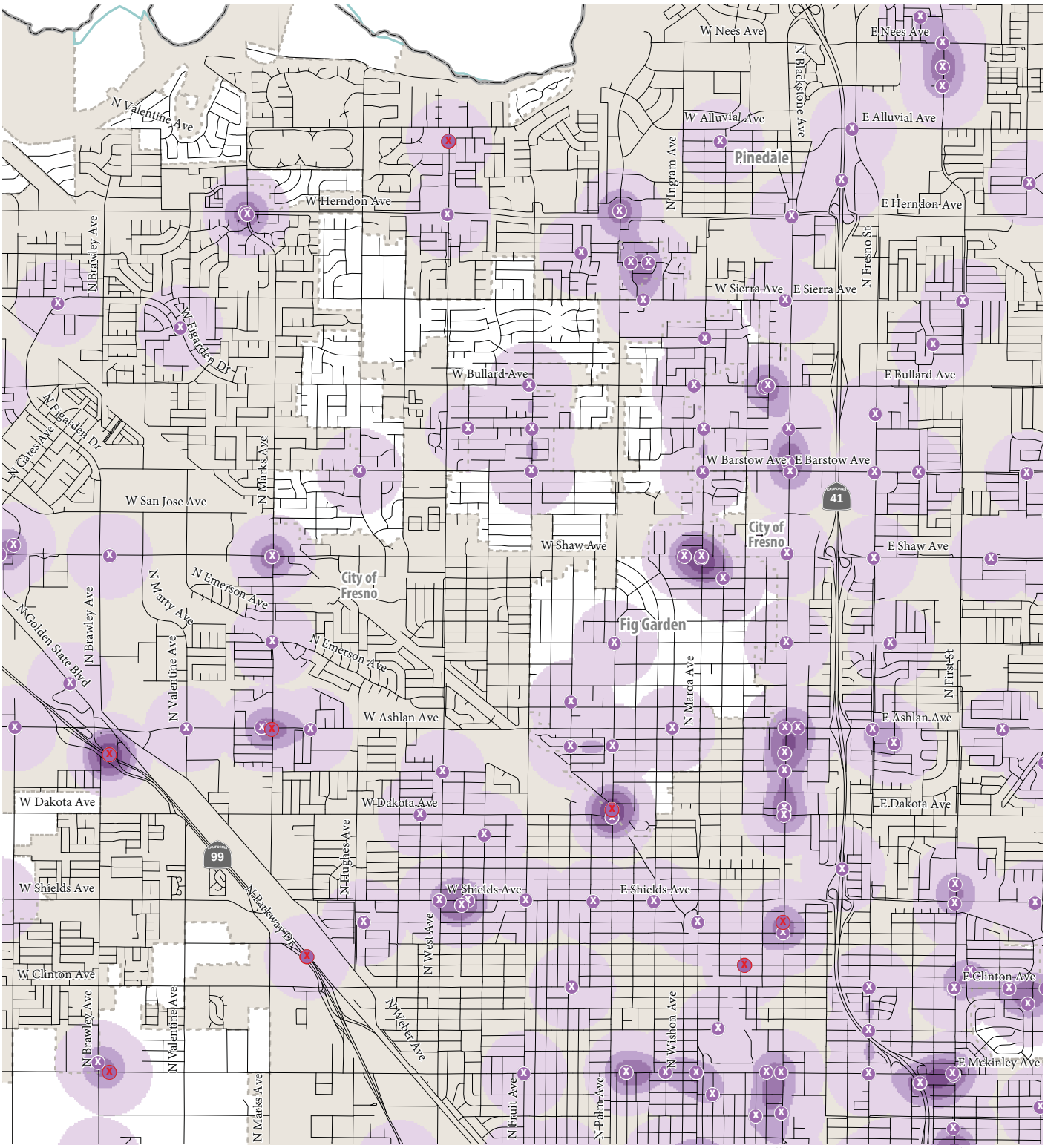
Pedestrian Collision (Injury)

County Boundary

Park/Open Space

City Limits

Figure 6-22: Fresno County Unincorporated County Islands Collisions Involving Bicyclists, 2009-2013



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

- Bicyclist Collision (Fatality)
- Bicyclist Collision (Injury)

Bicycle-related Collision Density
- Low Density
- High Density

- Waterway
- Canal
- City Limits
- County Boundary

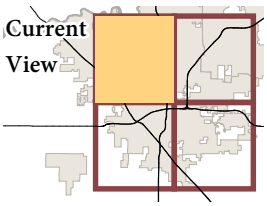
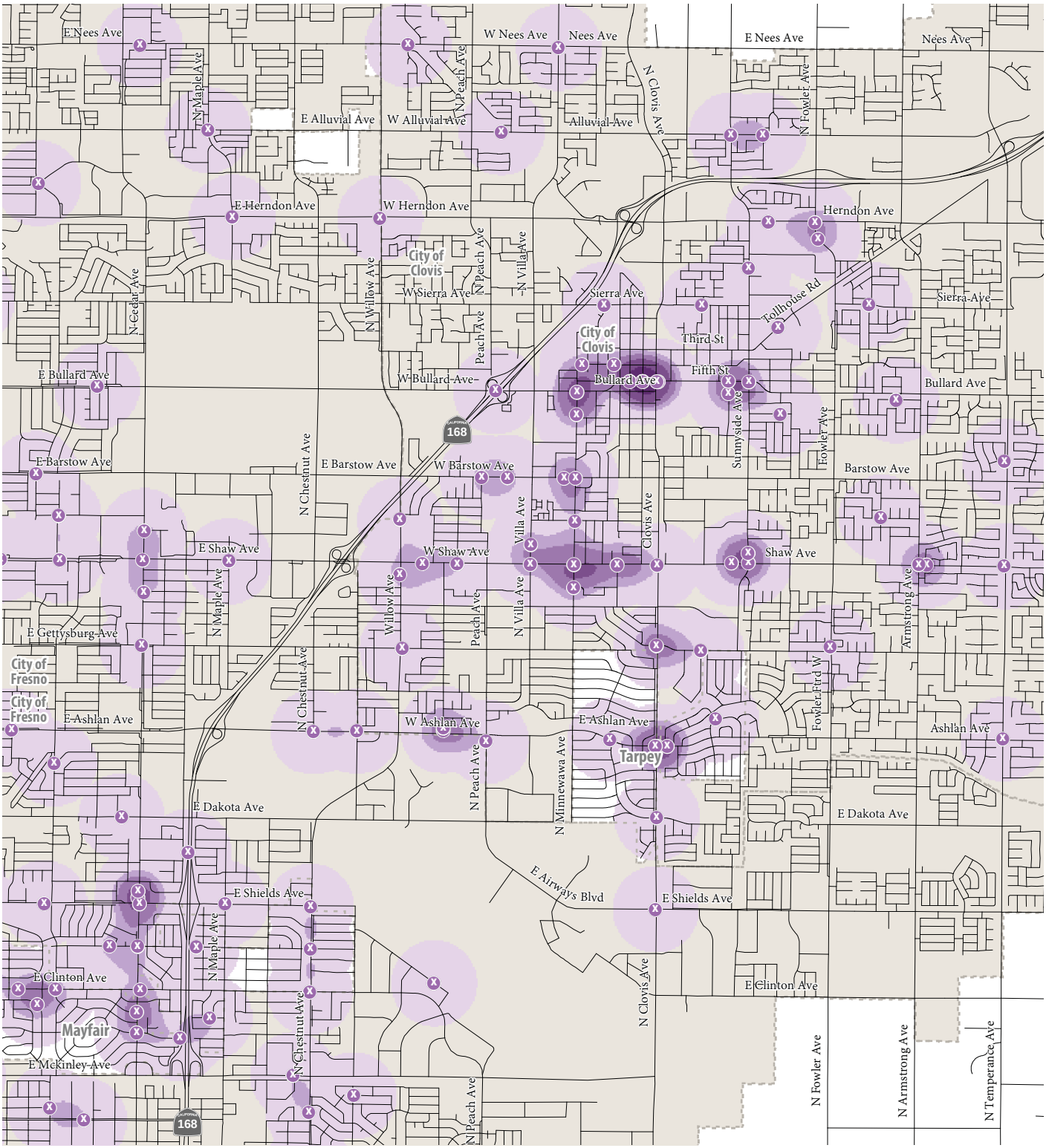


Figure 6-22: Fresno County Unincorporated County Islands Collisions Involving Bicyclists, 2009-2013 (continued)



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Bicyclist Collision (Fatality)

Bicyclist Collision (Injury)

Bicycle-related Collision Density

Low Density

High Density

Waterway

Canal

City Limits

County Boundary

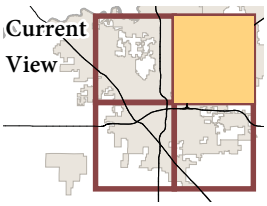
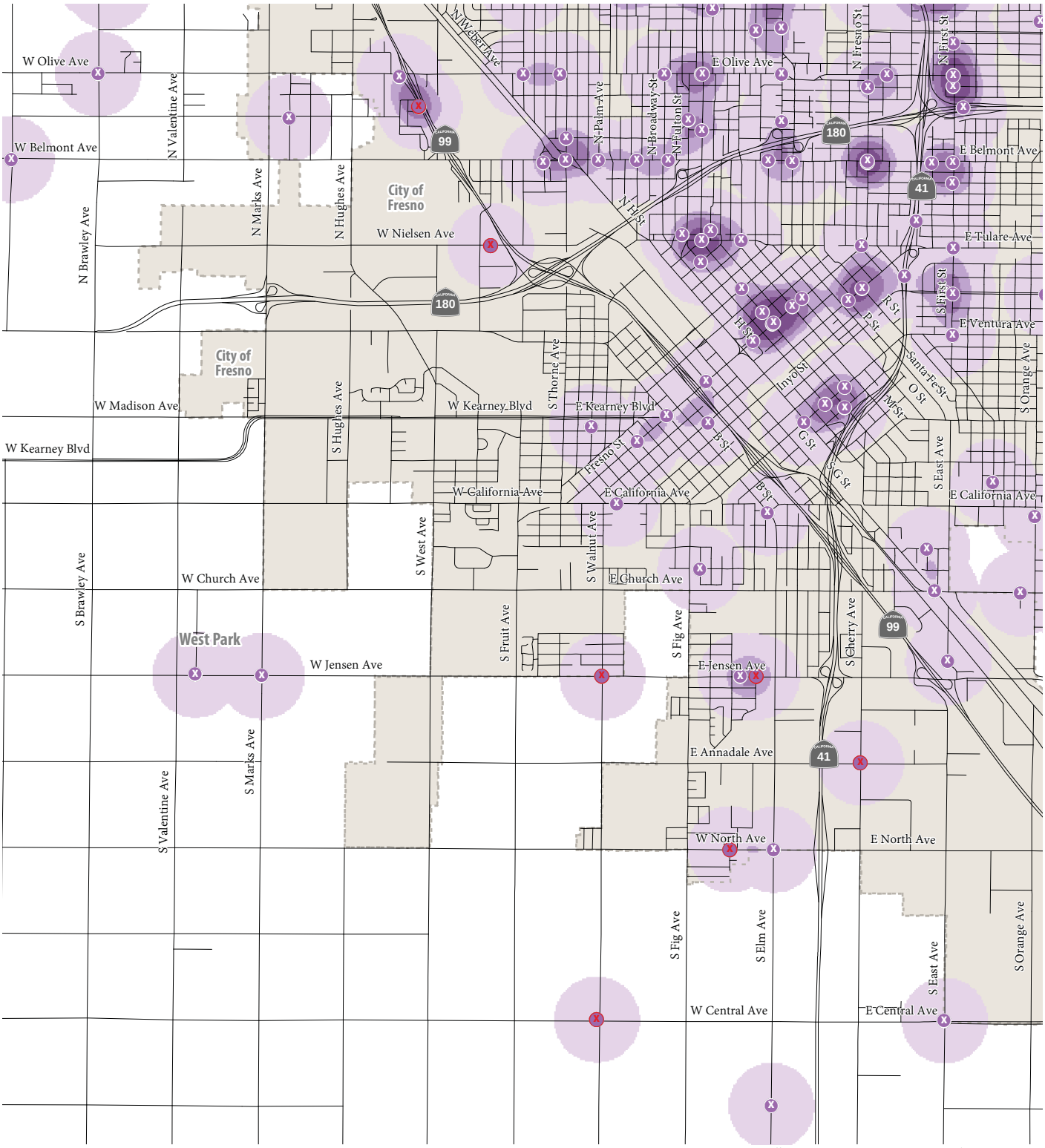


Figure 6-22: Fresno County Unincorporated County Islands Collisions Involving Bicyclists, 2009-2013 (continued)

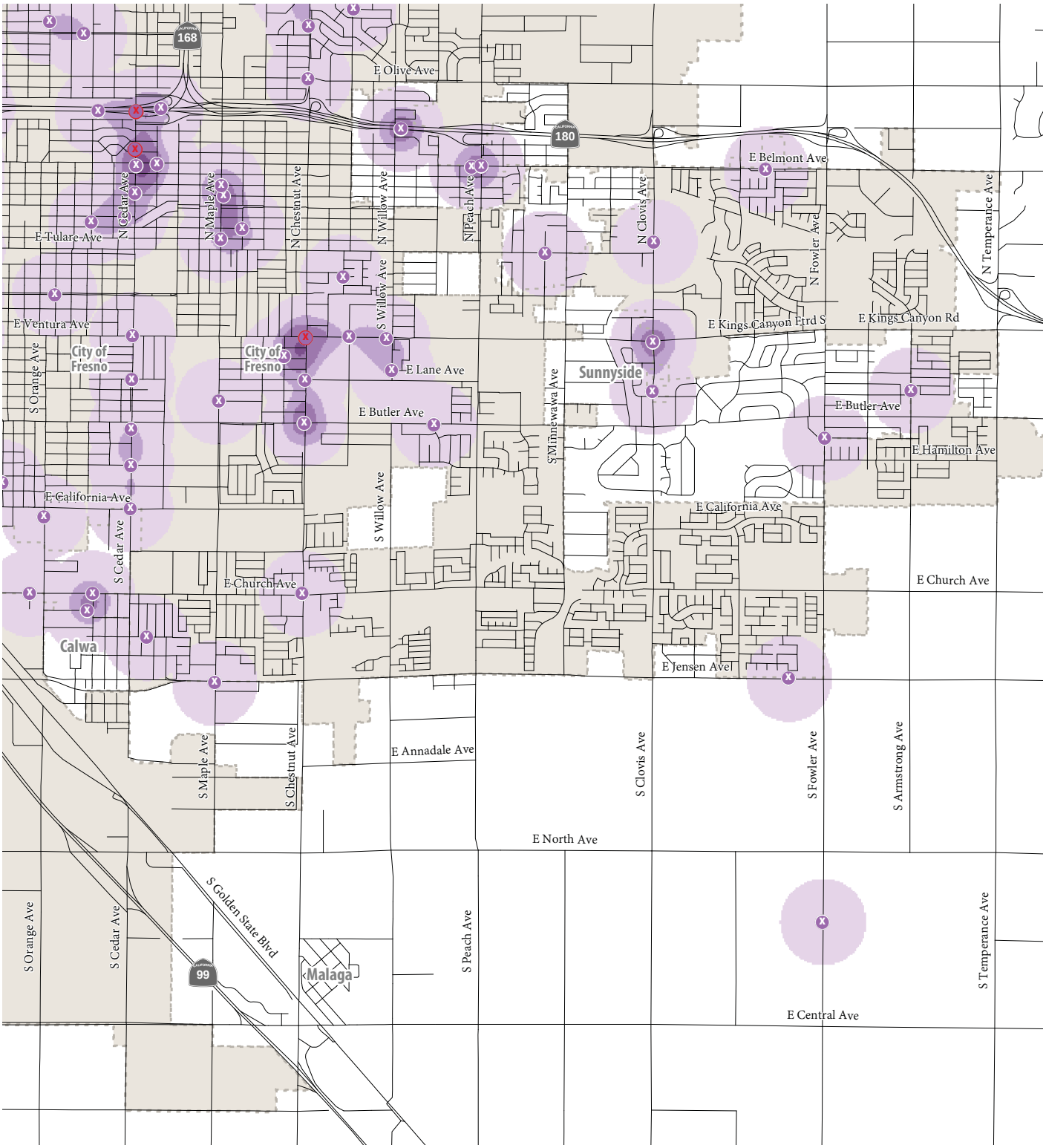


Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Bicyclist Collision (Fatality)
Bicyclist Collision (Injury)
Bicycle-related Collision Density
Low Density
High Density
Waterway
Canal
City Limits
County Boundary

Current View

Figure 6-22: Fresno County Unincorporated County Islands Collisions Involving Bicyclists, 2009-2013 (continued)



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Bicyclist Collision (Fatality)
Bicyclist Collision (Injury)
Bicycle-related Collision Density
Low Density
High Density
Waterway
Canal
City Limits
County Boundary

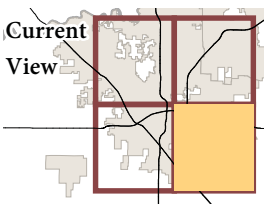
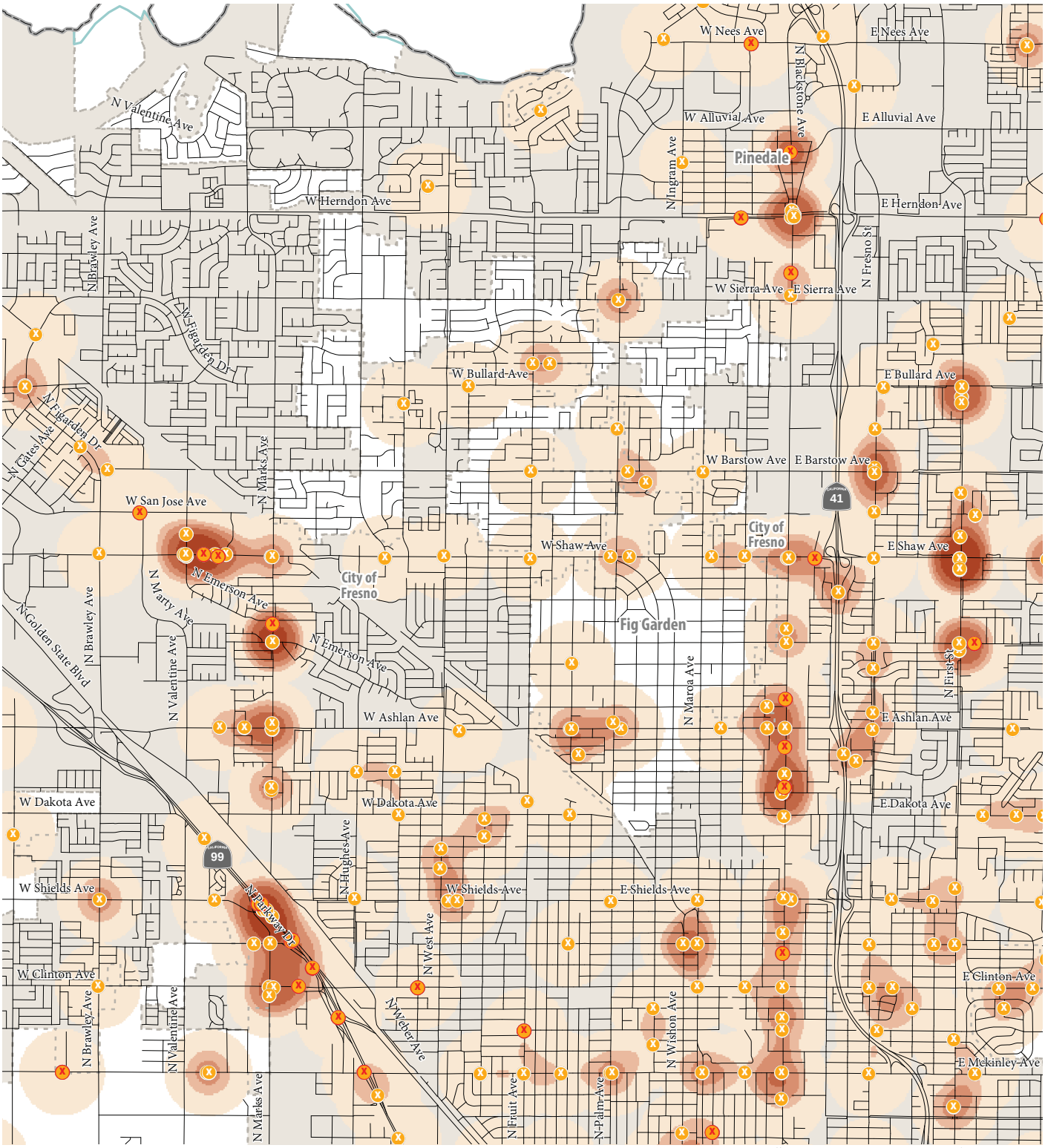


Figure 6-23: Fresno County Unincorporated County Islands Collisions Involving Pedestrians, 2009-2013



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Pedestrian Collision (Fatality)
Pedestrian Collision (Injury)
Pedestrian-related Collision Density
Lower Density
Higher Density
Waterway
Canal
City Limits
County Boundary

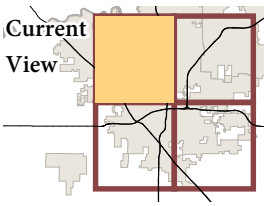
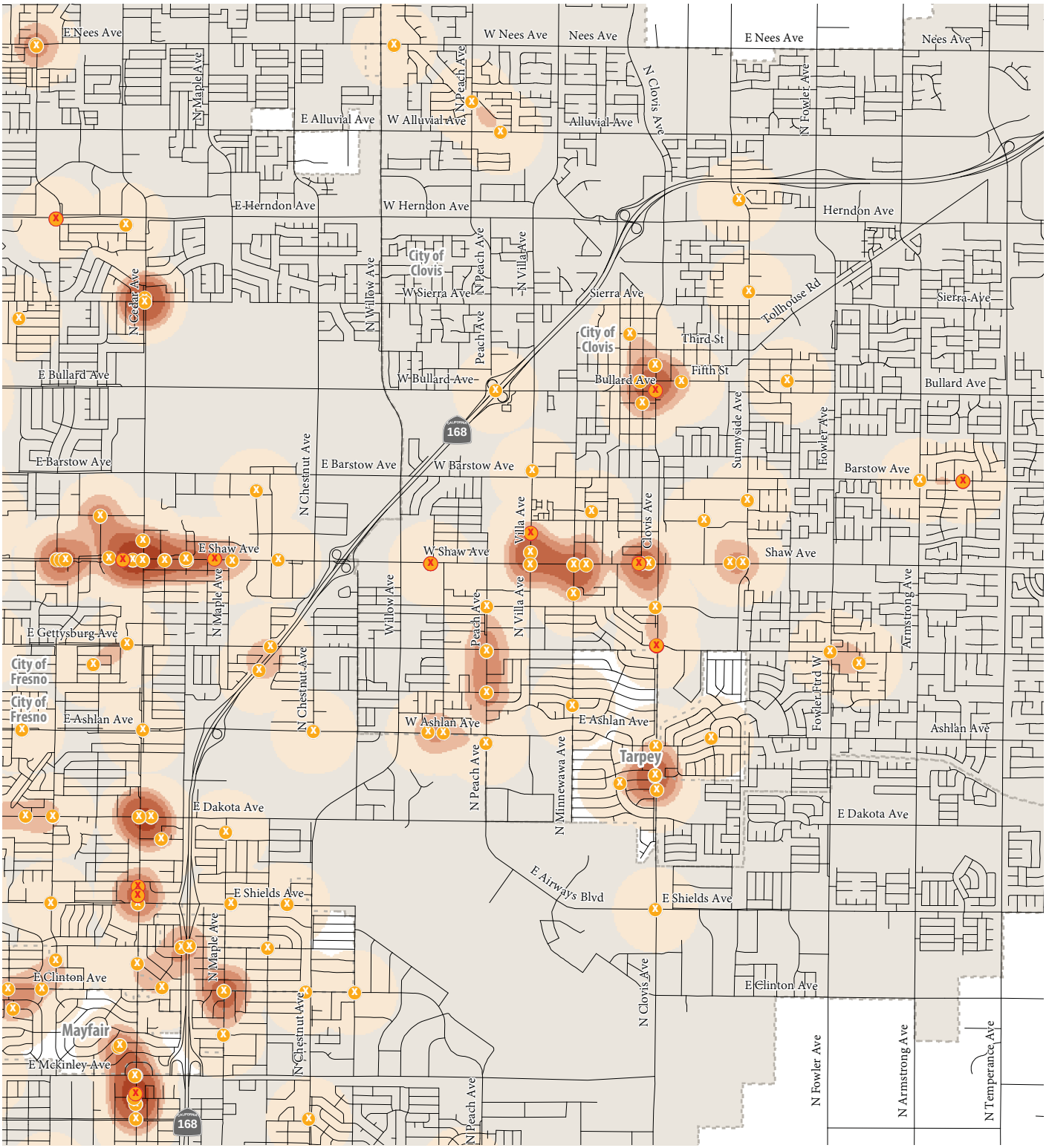


Figure 6-23: Fresno County Unincorporated County Islands Collisions Involving Pedestrians, 2009-2013 (continued)



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Pedestrian Collision (Fatality)
Pedestrian Collision (Injury)
Pedestrian-related Collision Density
Lower Density
Higher Density
Waterway
Canal
City Limits
County Boundary

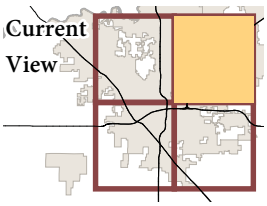
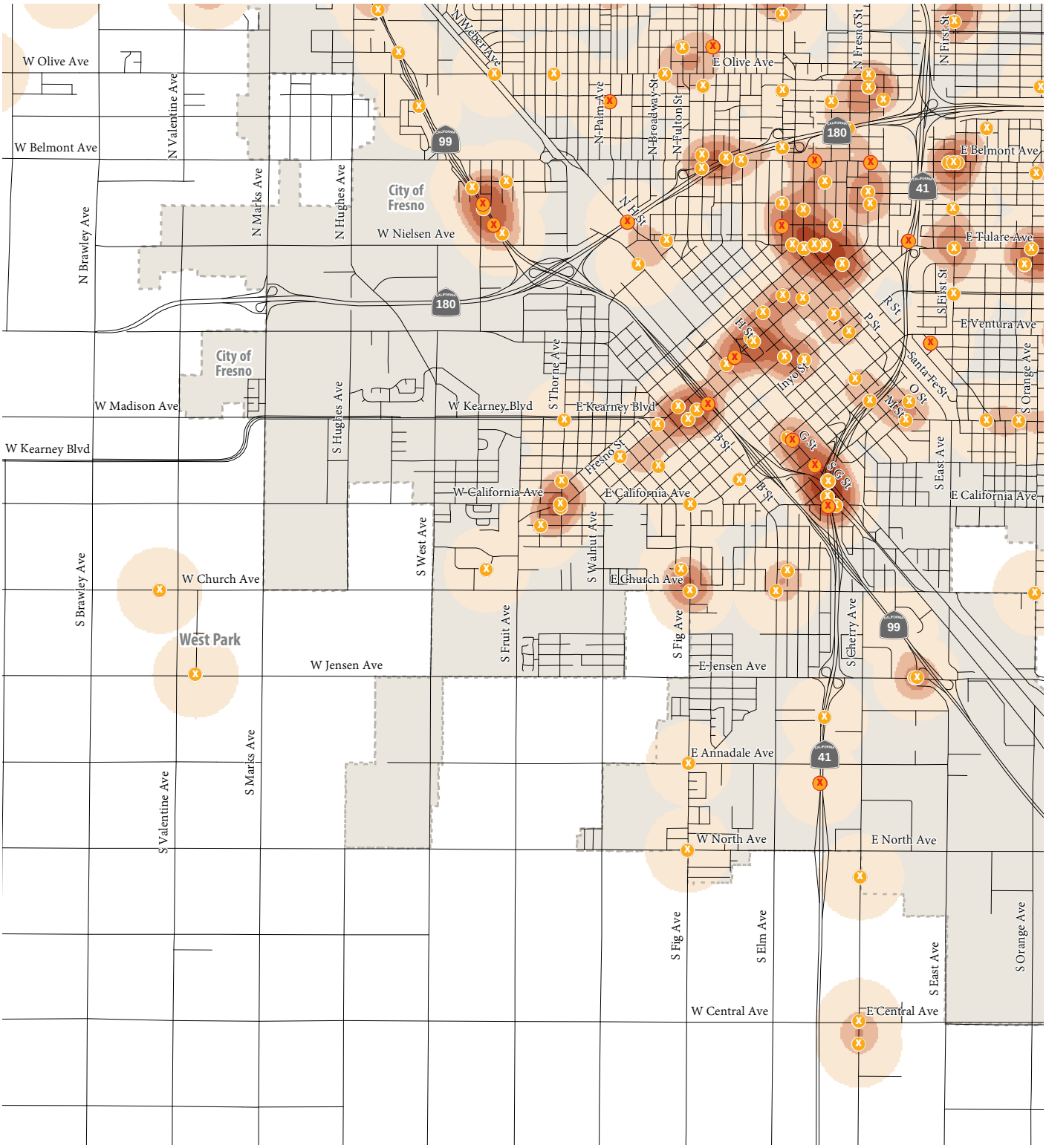


Figure 6-23: Fresno County Unincorporated County Islands Collisions Involving Pedestrians, 2009-2013 (continued)



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Pedestrian Collision (Fatality)
Pedestrian Collision (Injury)
Pedestrian-related Collision Density
Lower Density
Higher Density
Waterway
Canal
City Limits
County Boundary

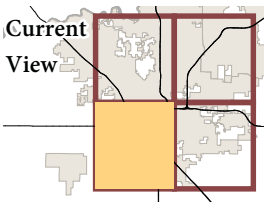
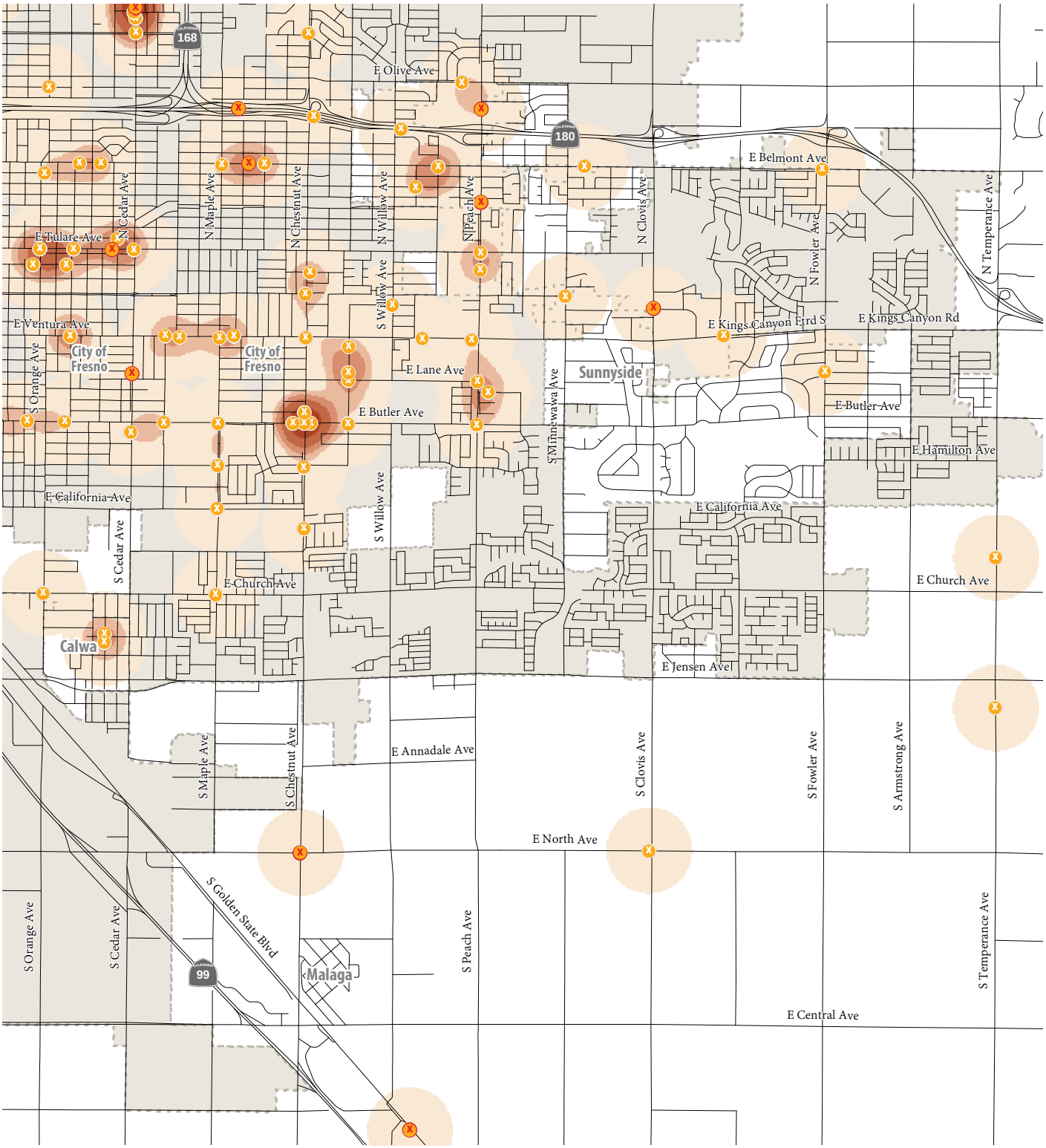
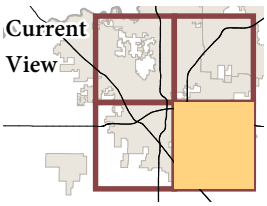


Figure 6-23: Fresno County Unincorporated County Islands Collisions Involving Pedestrians, 2009-2013 (continued)



Source: Traffic Injury Mapping System, 2017, Fehr & Peers, 2017

Pedestrian Collision (Fatality)
Pedestrian Collision (Injury)
Pedestrian-related Collision Density
Lower Density
Higher Density
Waterway
Canal
City Limits
County Boundary



Past Expenditures

The BRTMP reported the previous expenditures on bicycle facilities shown in Table 6-3. Additionally, the County has spent about $200,000 annually on sidewalk and ADA improvements in recent years, per a discussion with Fresno County staff (August 2, 2017).

Table 6-3: Fresno County Past Bicycle Expenditures

Project	Length (Miles)	Description	Estimated Cost
McKenzie Ave. Class I Bike Path (Belmont Trail) Rehabilitation, Willow Ave. to Clovis Ave.	1.52	Local match to City of Fresno grant to rehabilitate pavement, striping & signage	$15,000
Kearney Class I Bike Path (Kearney Trail) Rehabilitation, Brawley Ave. to Fair Ave. (Kearney Park)	2.88	Rehabilitate pavement, striping & signage	$105,800

Source: County of Fresno Bicycle and Recreational Trails Master Plan, 2013

Maintenance Policies

The General Plan and Bicycle and Recreational Trails Master Plan have policies related to bikeway and trail maintenance. The County of Fresno will typically perform maintenance on an as needed basis.

Mt. Whitney Avenue runs through the community of Lanare.

Five E's

Fresno County's recent efforts supporting the five E's are presented in Table 6-4.

Table 6-4: Fresno County Five E's of Active Transportation

E	Discussion
Education	• In the past, with grant funding, the Fresno County Sheriff's Department offered public outreach programs regarding bicycle education and safety. The Fresno County Sheriff's Department now provides bicycle safety information on its website: http://www.fresnosheriff.org/Community/BikeSafety.htm. • On a public request basis, local League of American Bicyclists, League Certified Instructors (LCI), offer on-site presentations to train children and adults on bicycle safety as part of a bicycle outreach community service program. As part of this outreach program, coloring sheets identifying safety issues are handed out to children and "Bike Rodeos" are sometimes held where the LCI can inspect and train bike riders regarding bicycle equipment and safety gear. • As additional funding opportunities permit, the County will educate both motorists and cyclists as to their proper roles within the traffic environment.
Encouragement	• Many walking, running, and bicycling events are held regularly throughout the County.
Engineering	• Previous improvements to county trails are listed in Table 6-3

Sources: County of Fresno, 2017, Fehr & Peers, 2017

PLANNED NETWORKS

The planned bicycle and pedestrian networks for Fresno County are summarized in Table 6-5 and shown in Figures 6-24 to 6-27. These networks were designed to connect safely to destinations in each community, especially schools and parks and to link communities. The planned pedestrian networks also include improvements at many crossings, especially near schools. The inclusion of bike facilities and sidewalks on any given roadway will be determined based on local conditions and feasibility.

School speed limit sign in Caruthers.

Table 6-5: Unincorporated Fresno County Planned Bicycle and Pedestrian Facilities

Facility Type	Existing (miles)	Planned (miles)	Total (miles)
Sidewalk	76.1	58.5	134.6
Class I Bike Path	5.0	191.1	196.1
Class II Bike Lane	138.2	1,329.3	1,467.5
Class II/IV	0.0	23.4	23.4
Class III Bike Route	0.0	8.7	8.7
Class IV Separated Bikeway	0.0	4.3	4.3

Sources: Fresno Council of Governments, 2017, Fehr & Peers, 2017

The County currently does not have plans to widen bridges to accommodate planned bike facility projects where widening of an existing bridge is required. However, when the structure becomes nonfunctional and obsolete, the County will make effort to incorporate bike facilities as part of the bridge replacement project.

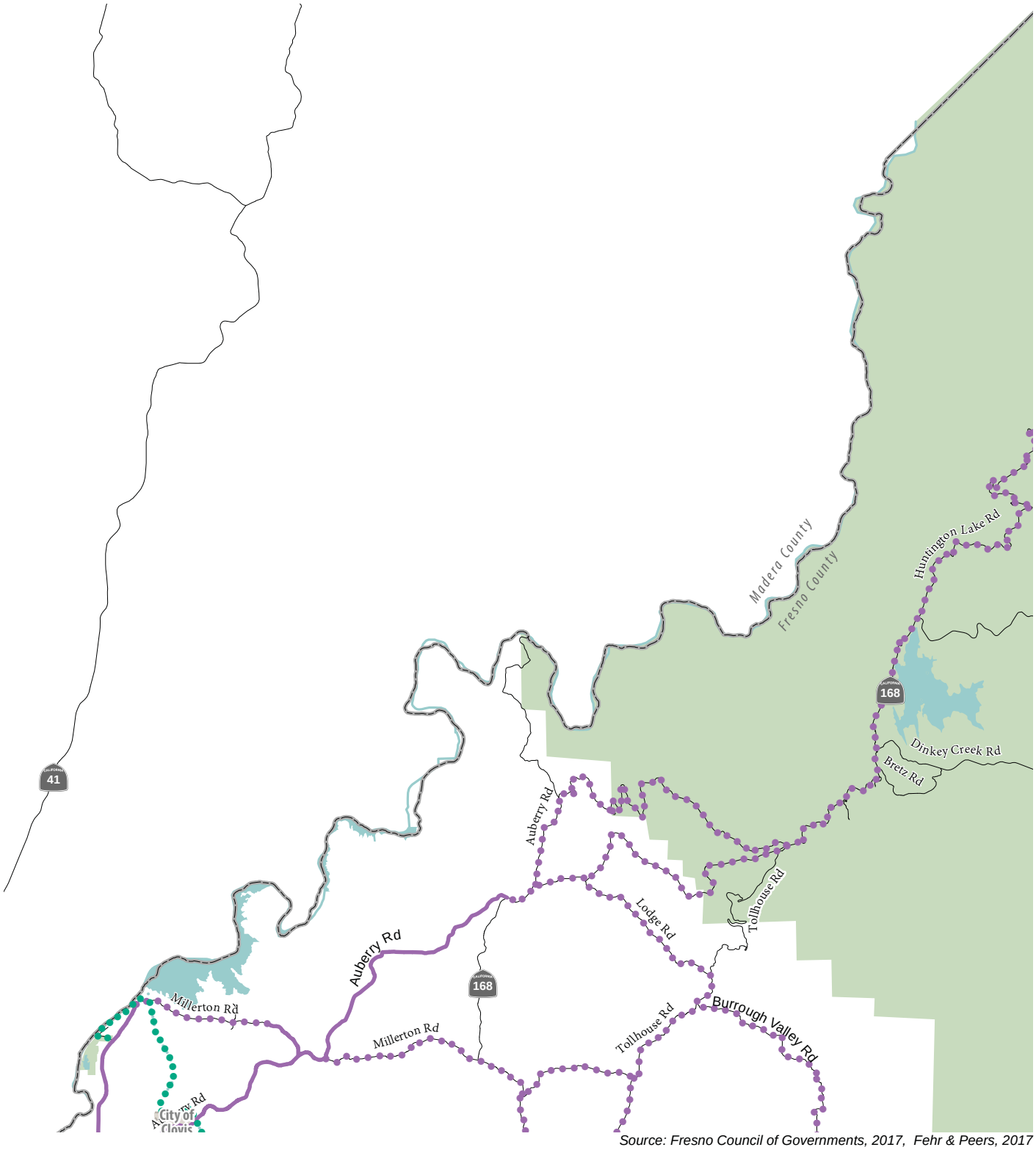
Costs to implement these facilities are summarized in Table 6-6.

Table 6-6: Unincorporated Fresno County Planned Bicycle and Pedestrian Network Costs

Facility Type	Cost Per Mile	High Priority	Other	Total
Sidewalk	$343,000	$6,134,000	$13,933,000	$20,067,000
Class I Bike Path	$750,000	$383,000	$142,907,000	$143,290,000
Class II Bike Lane	$175,000	$7,252,000	$229,473,000	$236,725,000
Class III Bike Route	$8,000	$26,000	$44,000	$70,000
Class IV Separated Bikeway	$200,000		$860,000	$860,000
Intersection Improvements		$525,000	$80,000	$605,000
	Total	$14,320,000	$387,297,000	$401,617,000

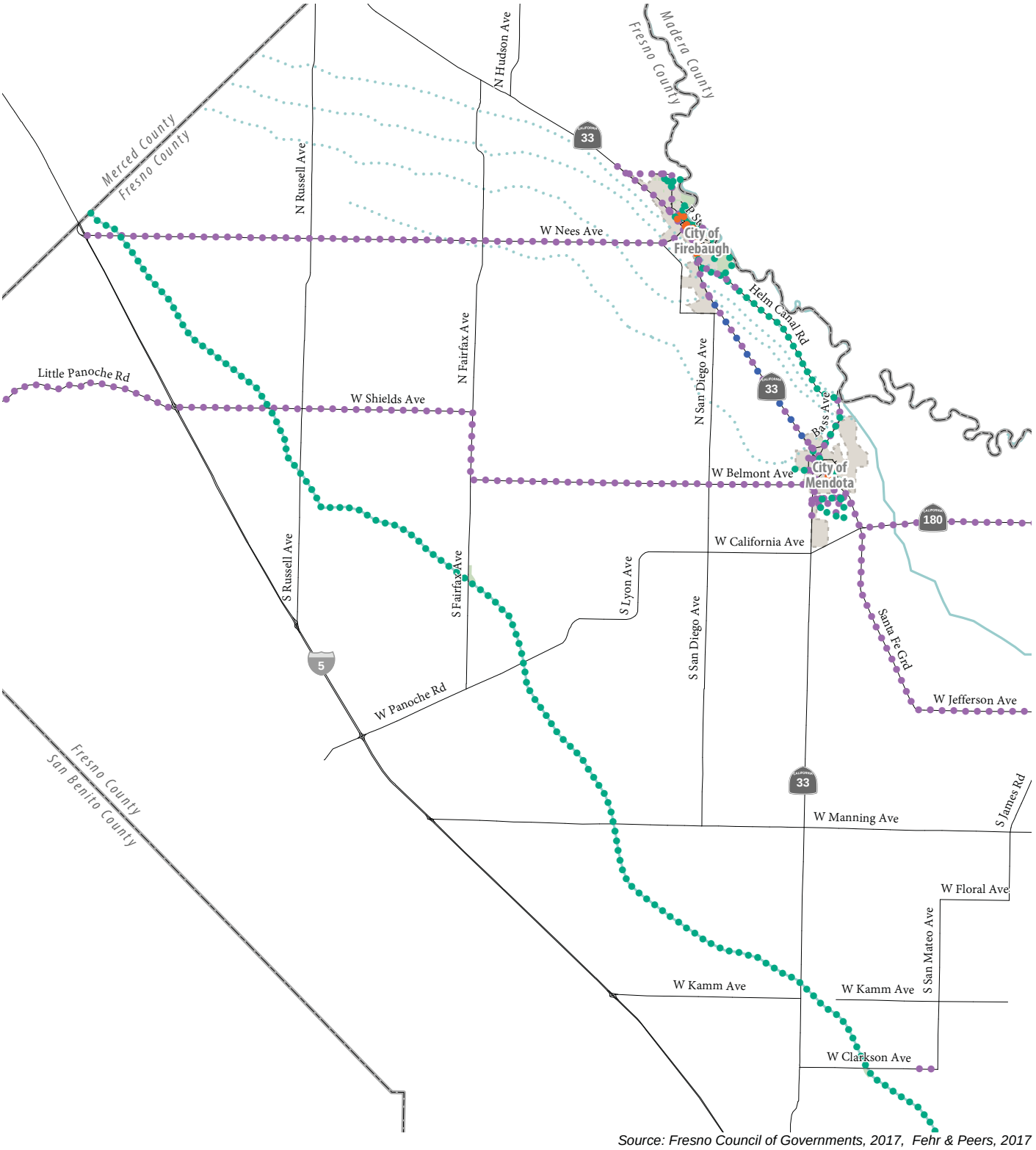
Note: For cost estimation purposes, segments classified as Class II or Class IV are estimated using Class II unit cost.
Source: Fehr & Peers, 2017

Figure 6-24: Fresno County Planned Bicycle Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-24: Fresno County Planned Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)

Planned Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)
- Class IV Bikeway (Separated Bikeway)
- Class II\IV

- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

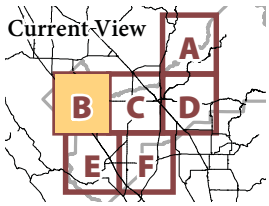
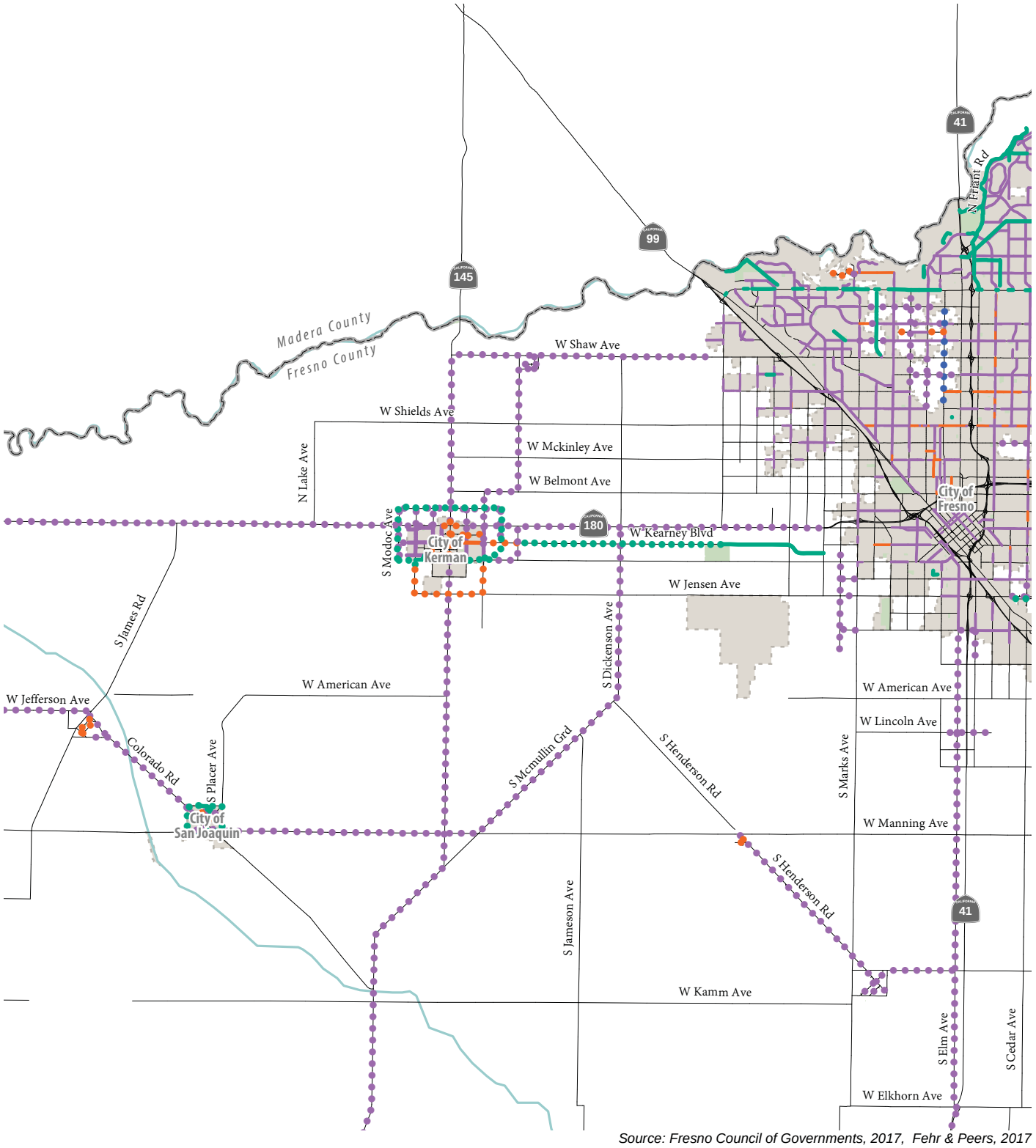


Figure 6-24: Fresno County Planned Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
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- Class II\IV

- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

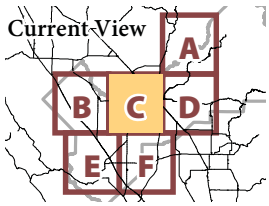
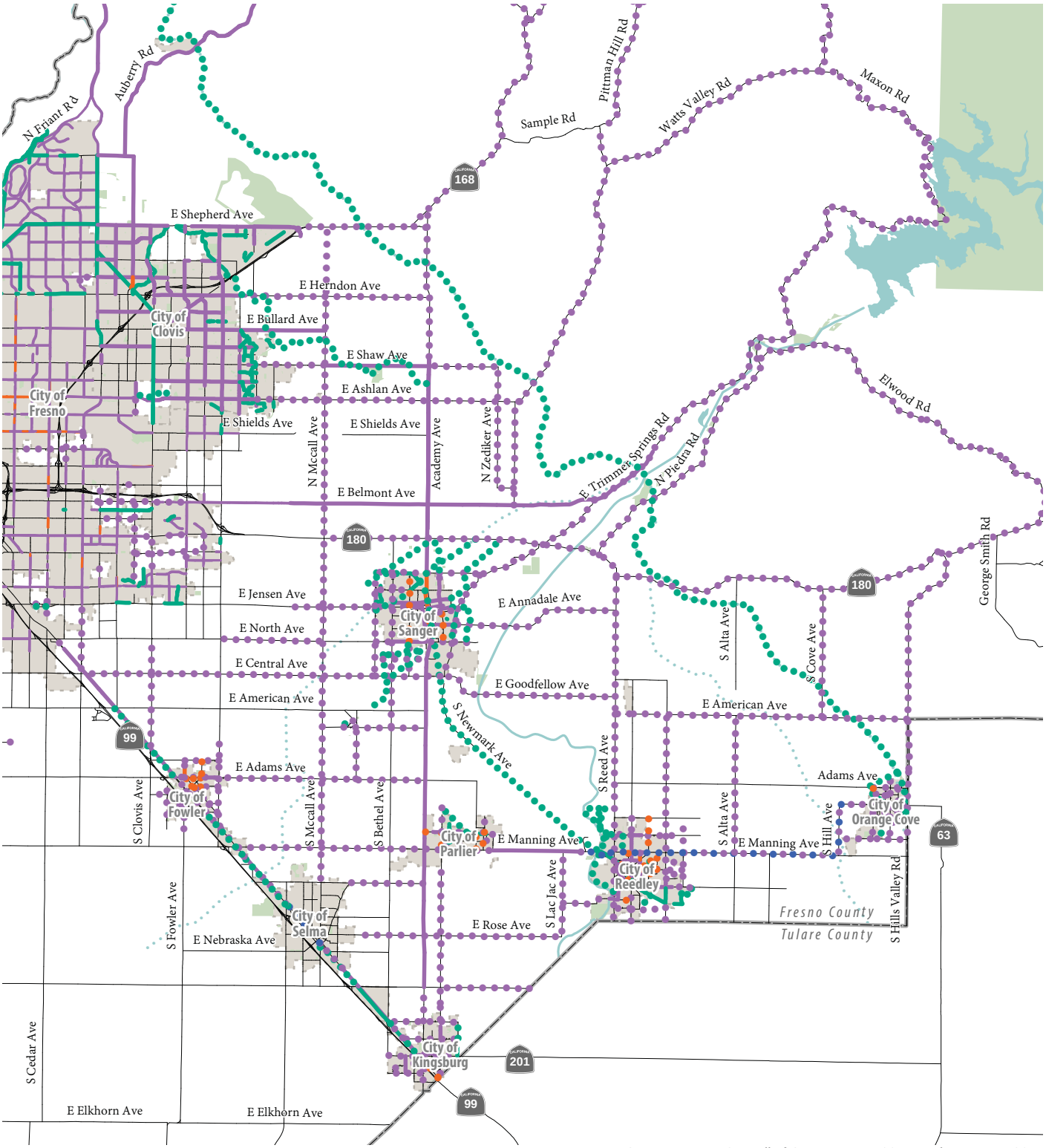


Figure 6-24: Fresno County Planned Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
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- County Boundary

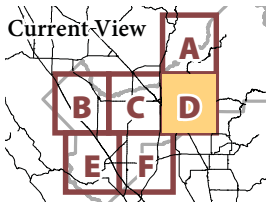
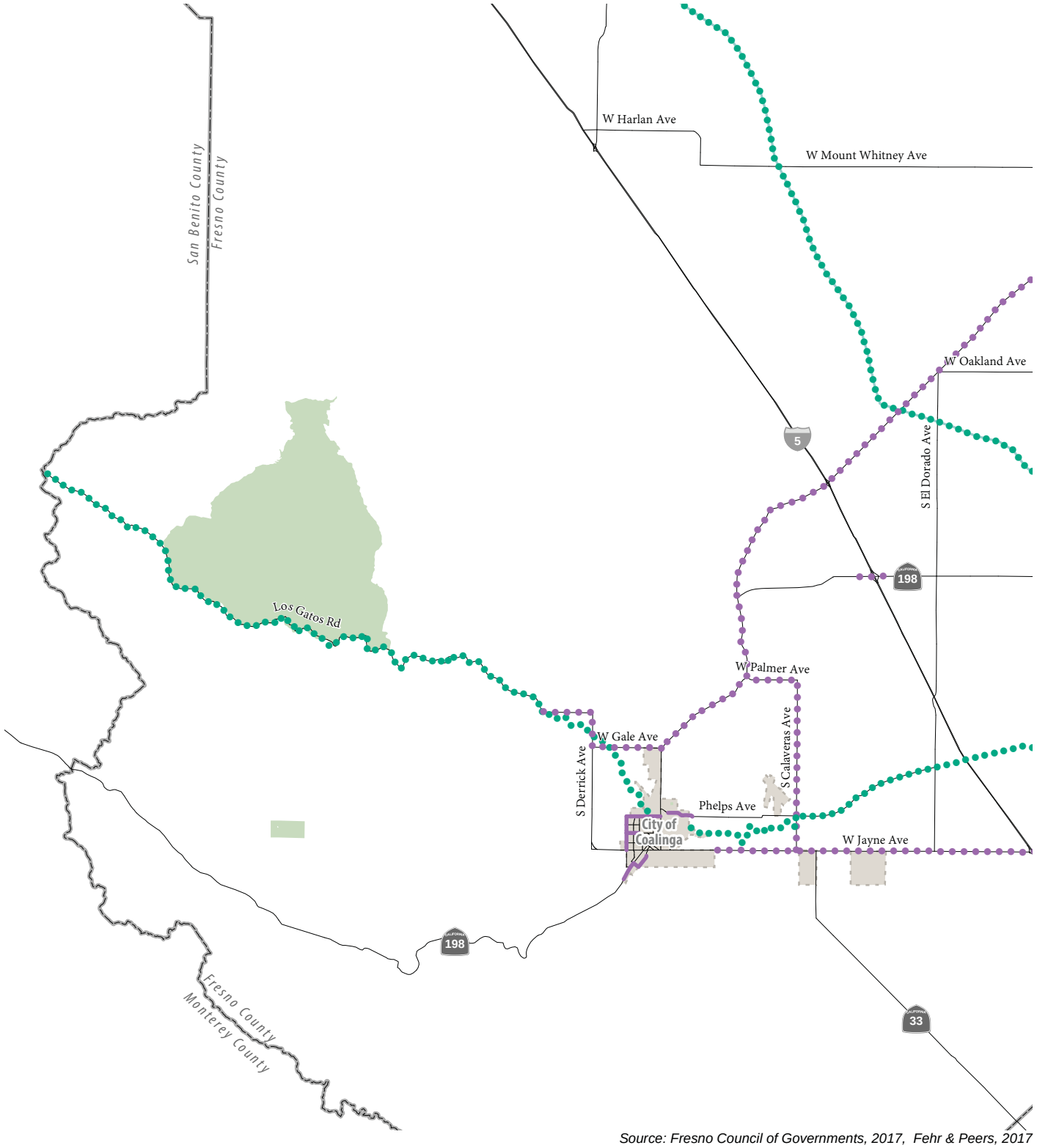


Figure 6-24: Fresno County Planned Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
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- Class IV Bikeway (Separated Bikeway)
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- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary

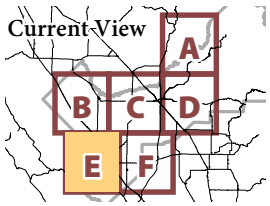
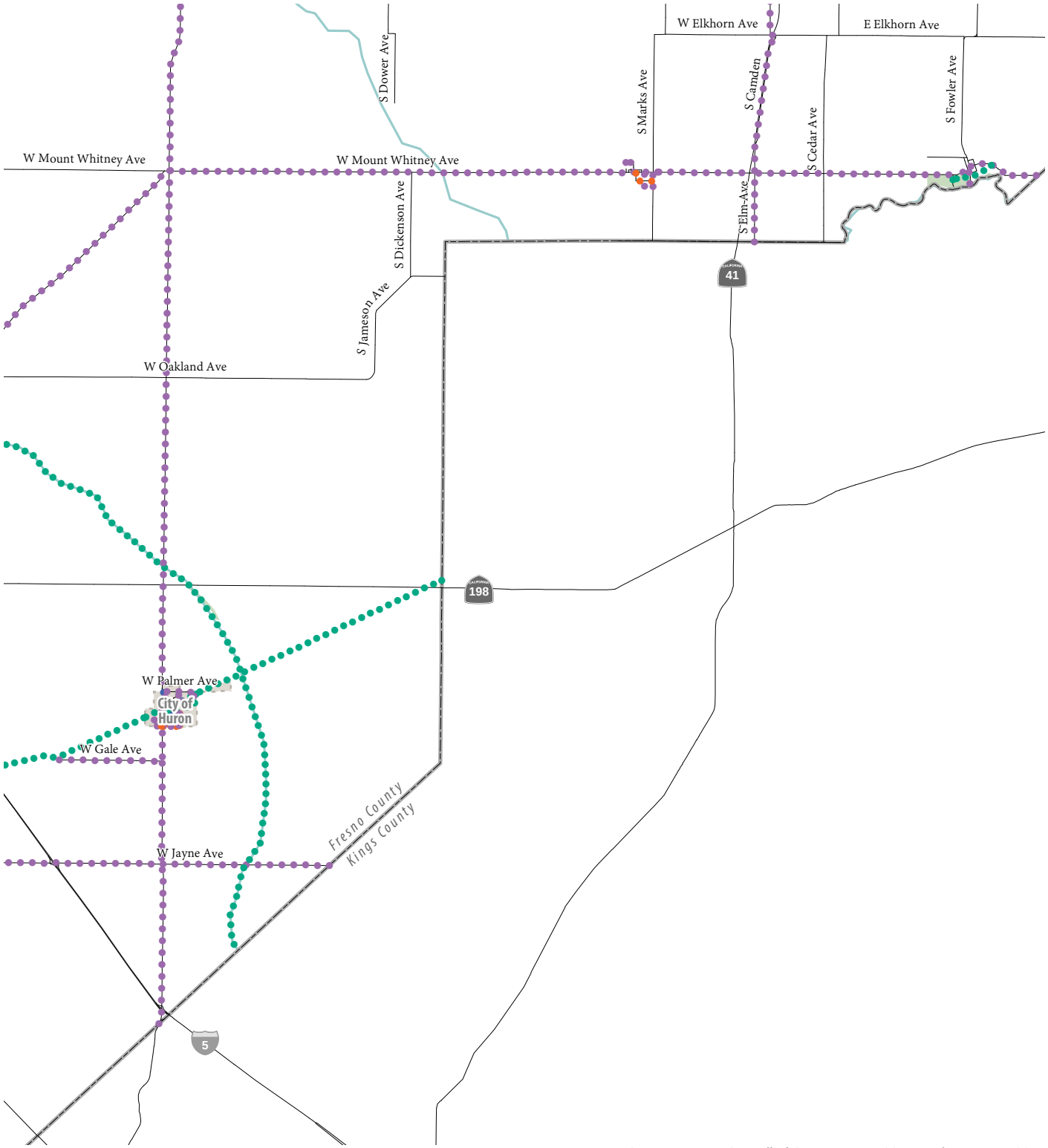


Figure 6-24: Fresno County Planned Bicycle Facilities (continued)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
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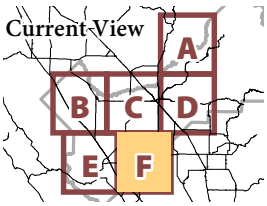
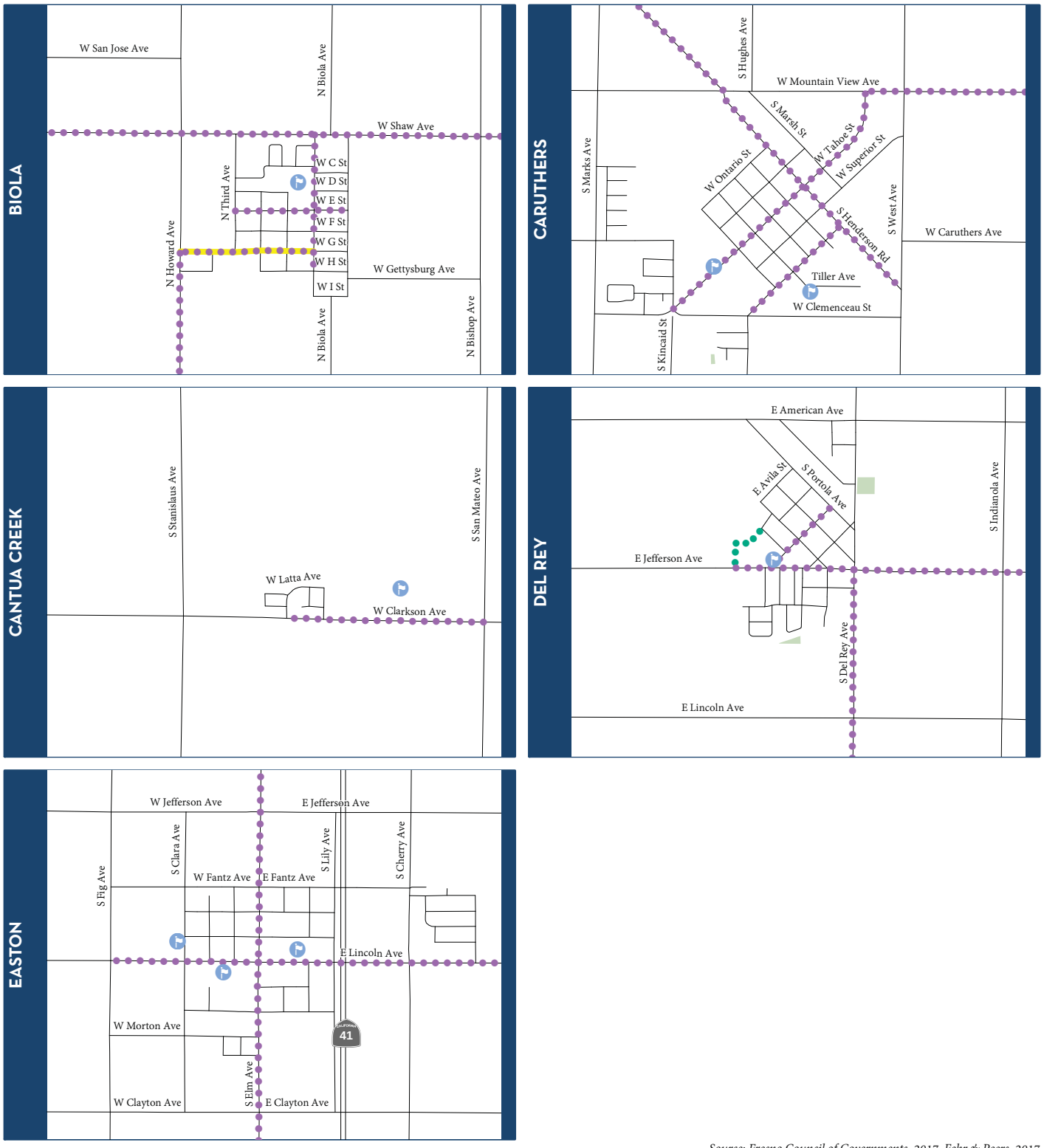


Figure 6-25: Fresno County Unincorporated Communities Planned Bicycle Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Existing Bicycle Facilities

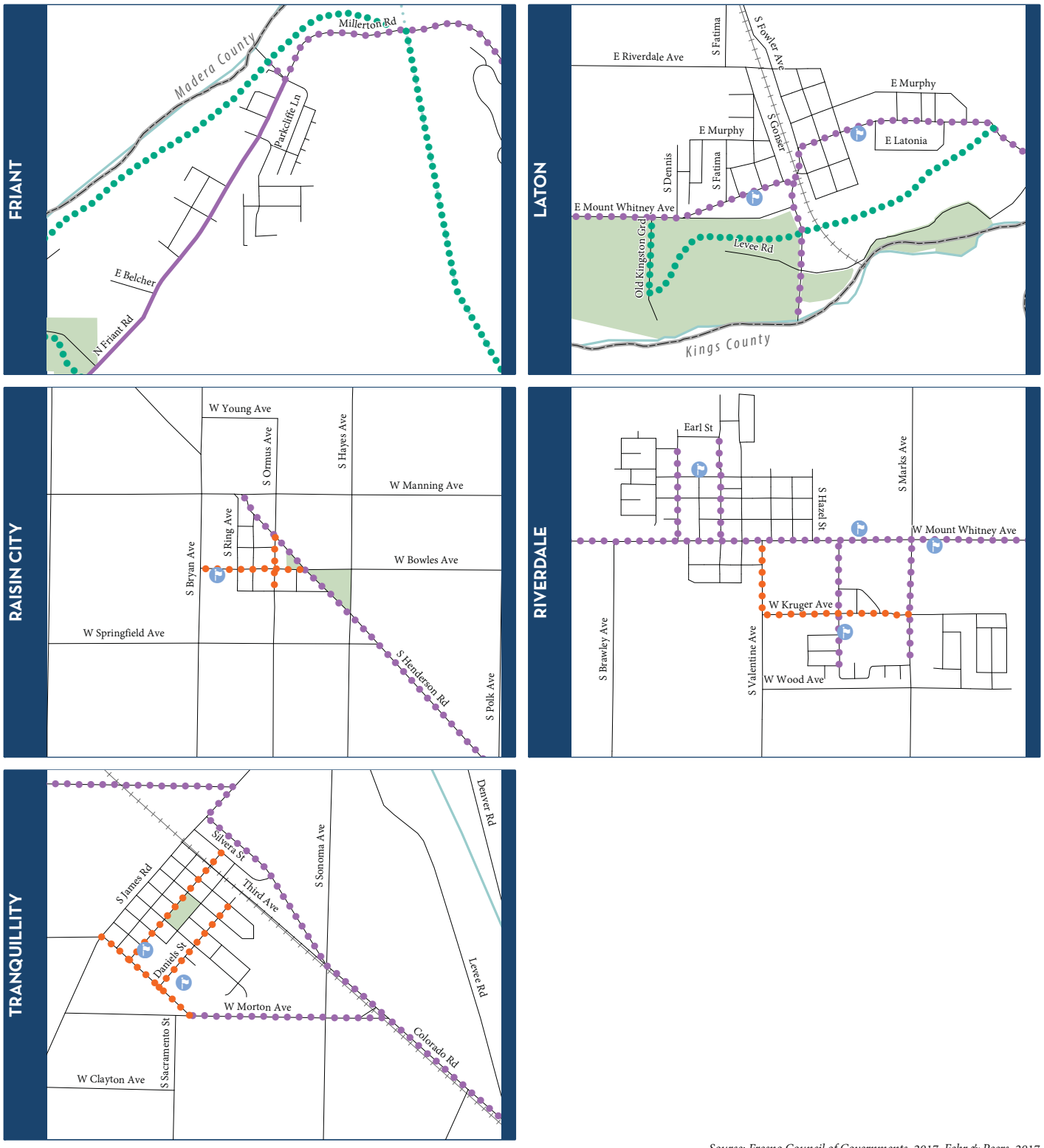
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)
- Funded Project, Not Included in ATP

Planned Bicycle Facilities

- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)
- Class IV Bikeway (Separated Bikeway)
- Class II\IV

- School
- County Boundary
- Park/Open Space

Figure 6-25: Fresno County Unincorporated Communities Planned Bicycle Facilities (continued)



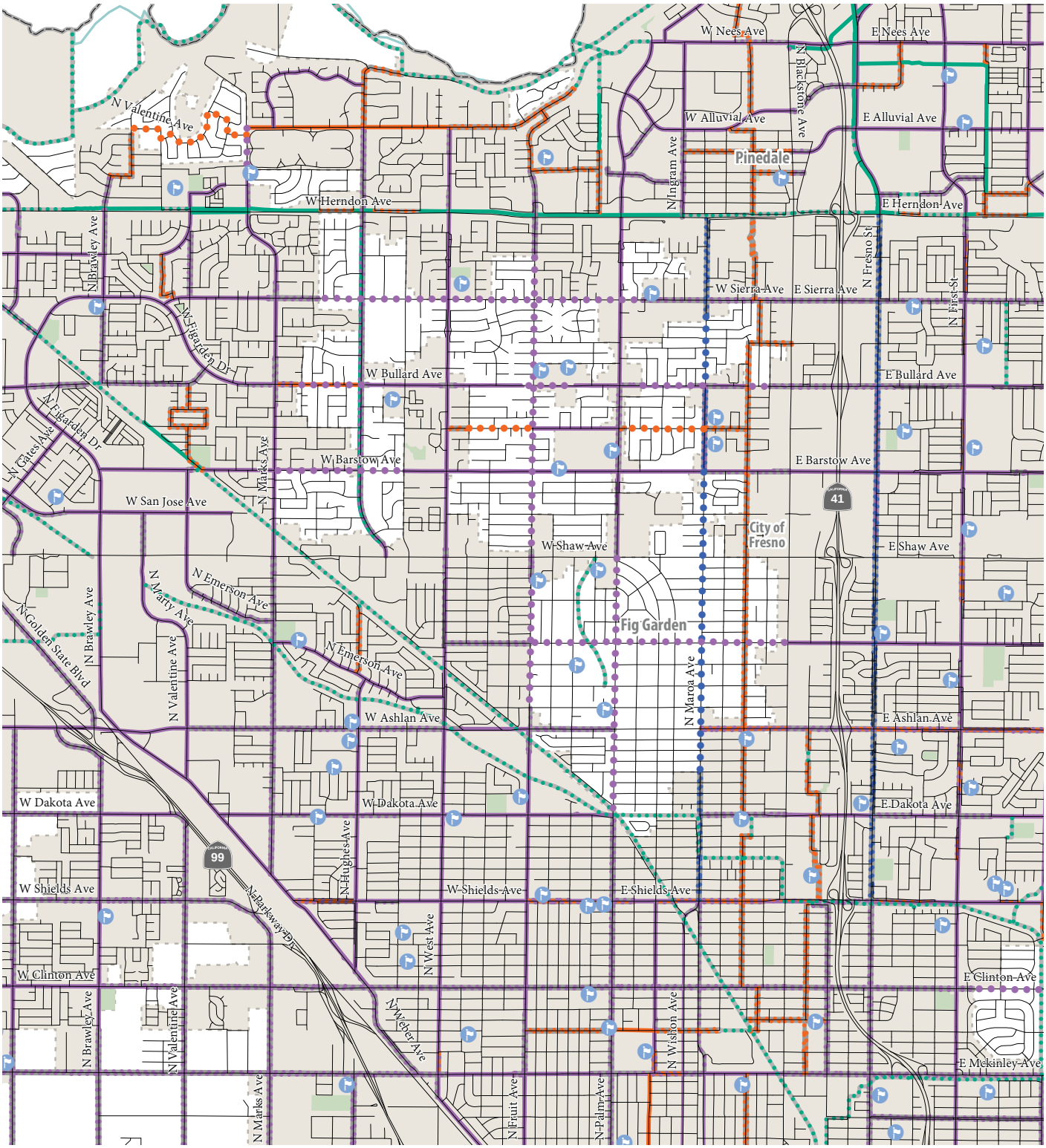
Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)
- Funded Project, Not Included in ATP

Planned Bicycle Facilities
- Class I Bikeway (Bike Path)
- Class II Bikeway (Bike Lane)
- Class III Bikeway (Bike Route)
- Class IV Bikeway (Separated Bikeway)
- Class II\IV

- School
- County Boundary
- Park/Open Space
- City Limits

Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

Figure 6-26: Fresno County Unincorporated County Island Planned Bicycle Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

Existing Bicycle Facilities
- Class I Bikeway (Bike Path)
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- Class III Bikeway (Bike Route)
- Project Covered by Other Plans

Planned Bicycle Facilities
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- Class IV Bikeway (Separated Bikeway)
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- Park/Open Space
- City Limits
- County Boundary

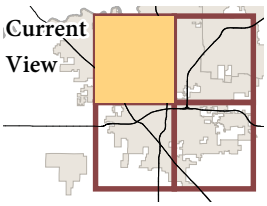
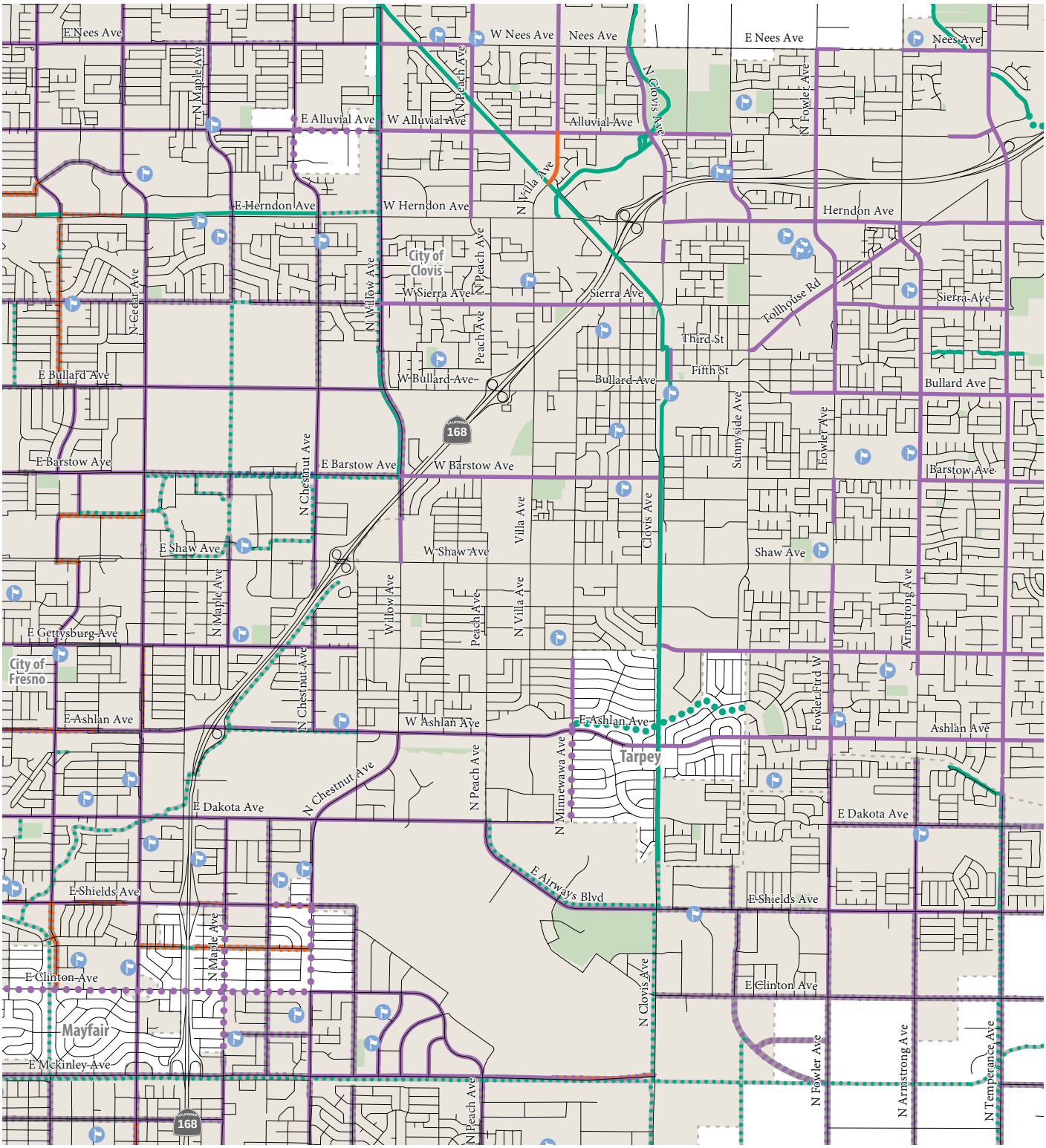


Figure 6-26: Fresno County Unincorporated County Island Planned Bicycle Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

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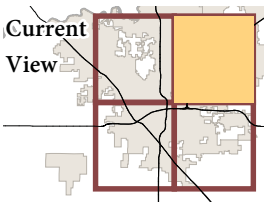
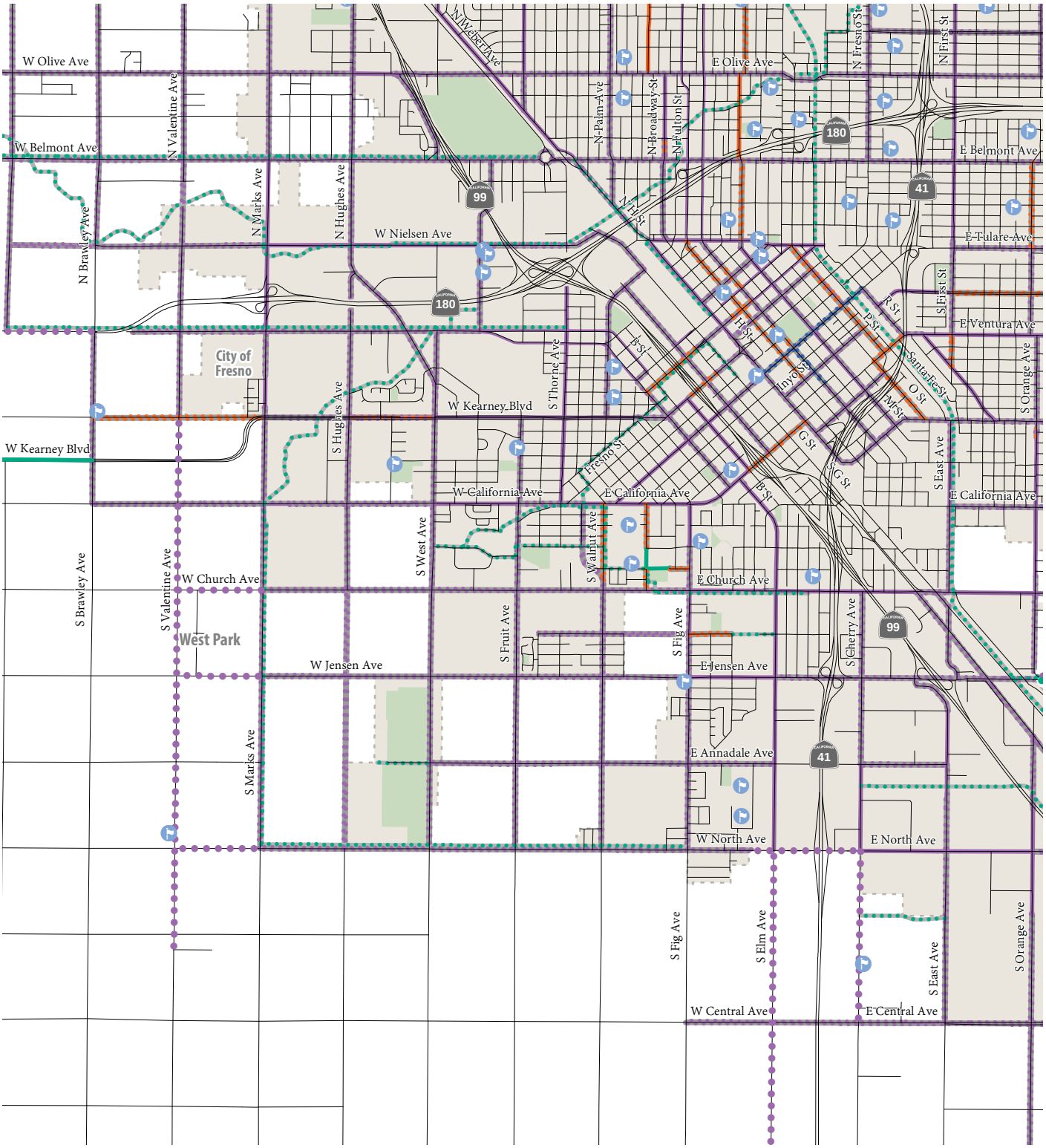


Figure 6-26: Fresno County Unincorporated County Island Planned Bicycle Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

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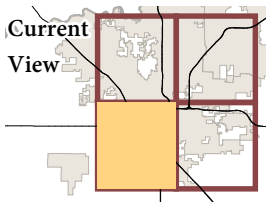
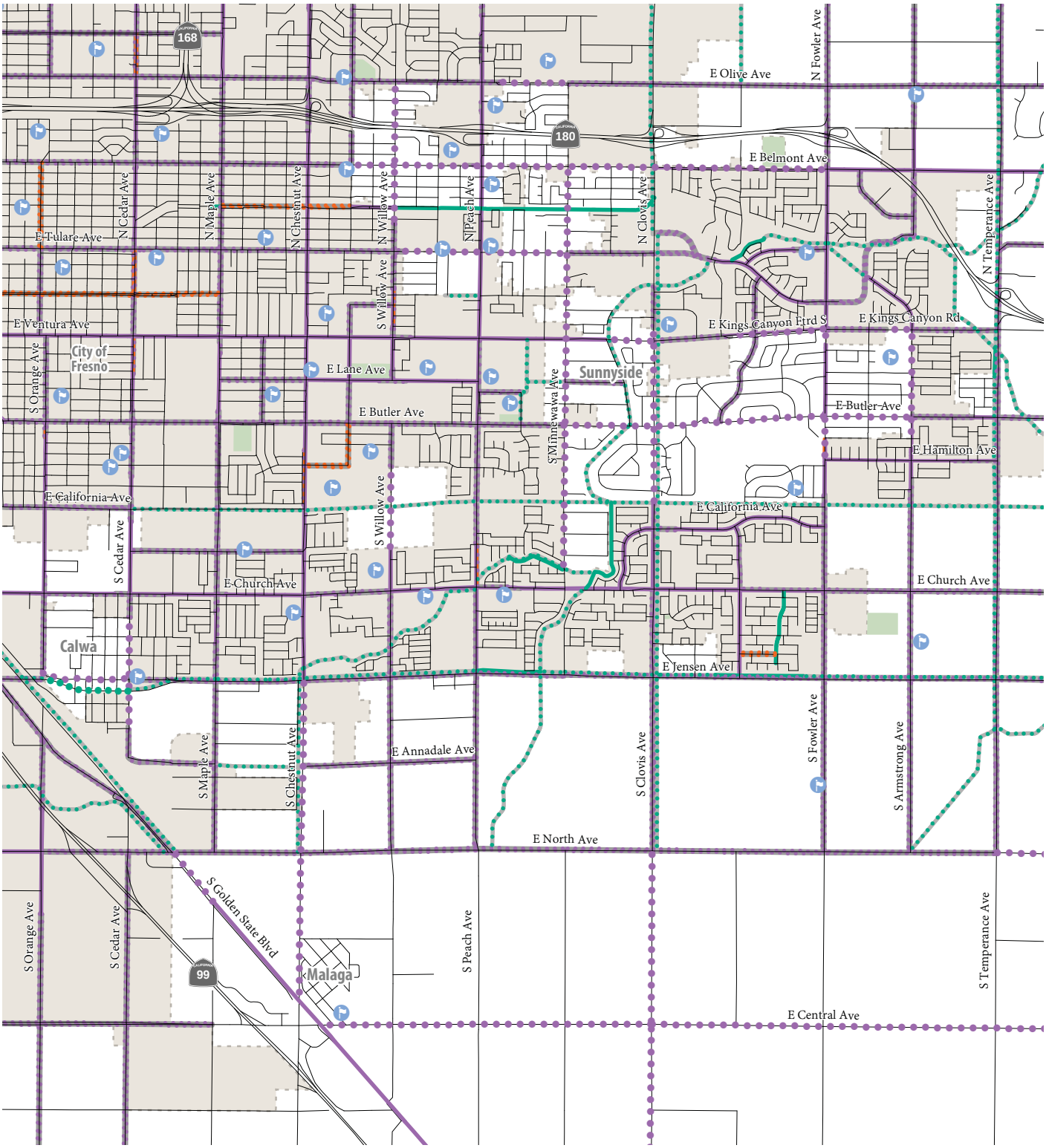


Figure 6-26: Fresno County Unincorporated County Island Planned Bicycle Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

School

Existing Bicycle Facilities
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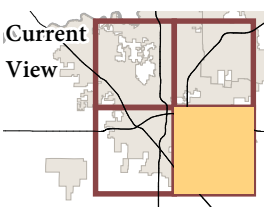
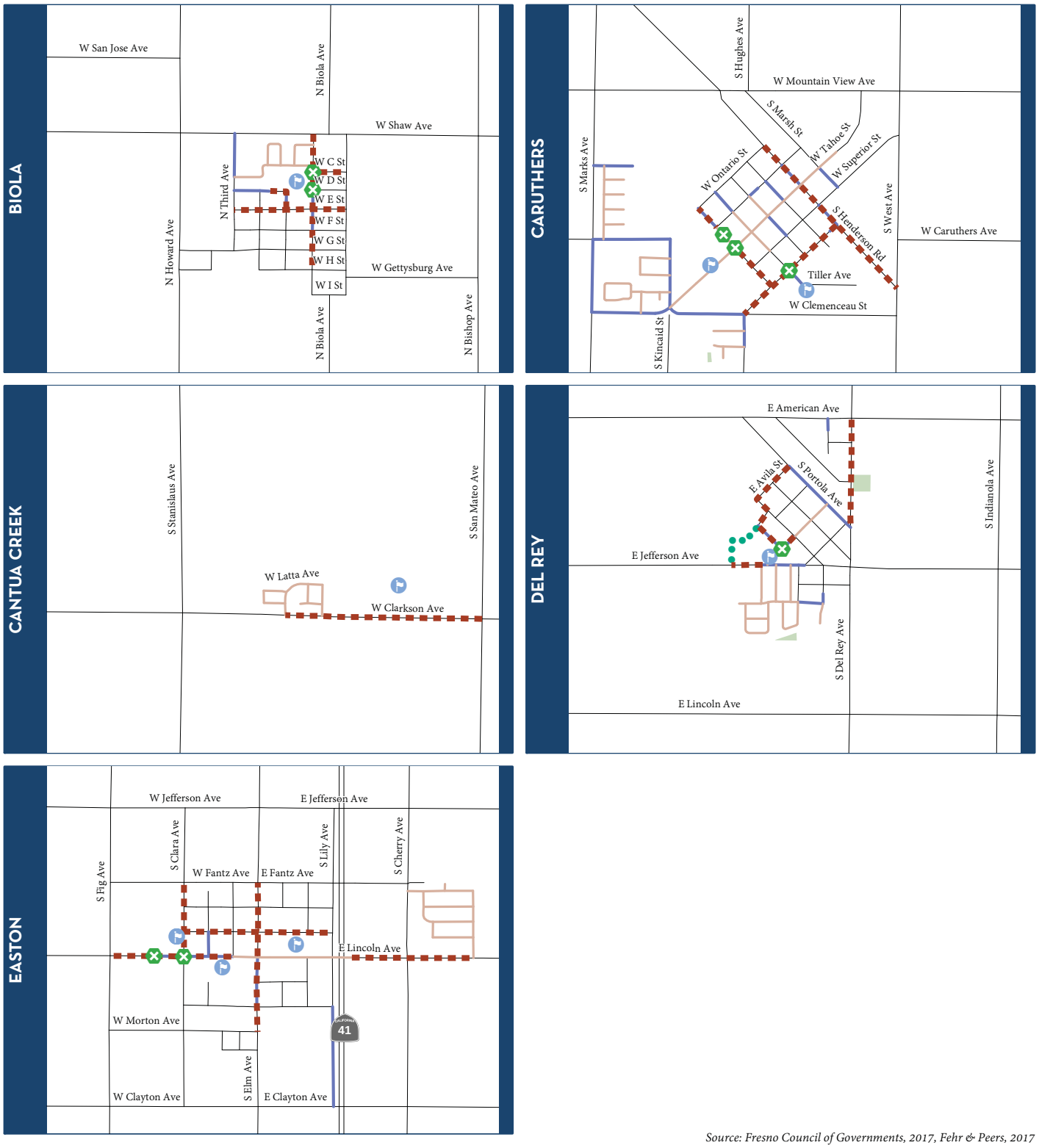


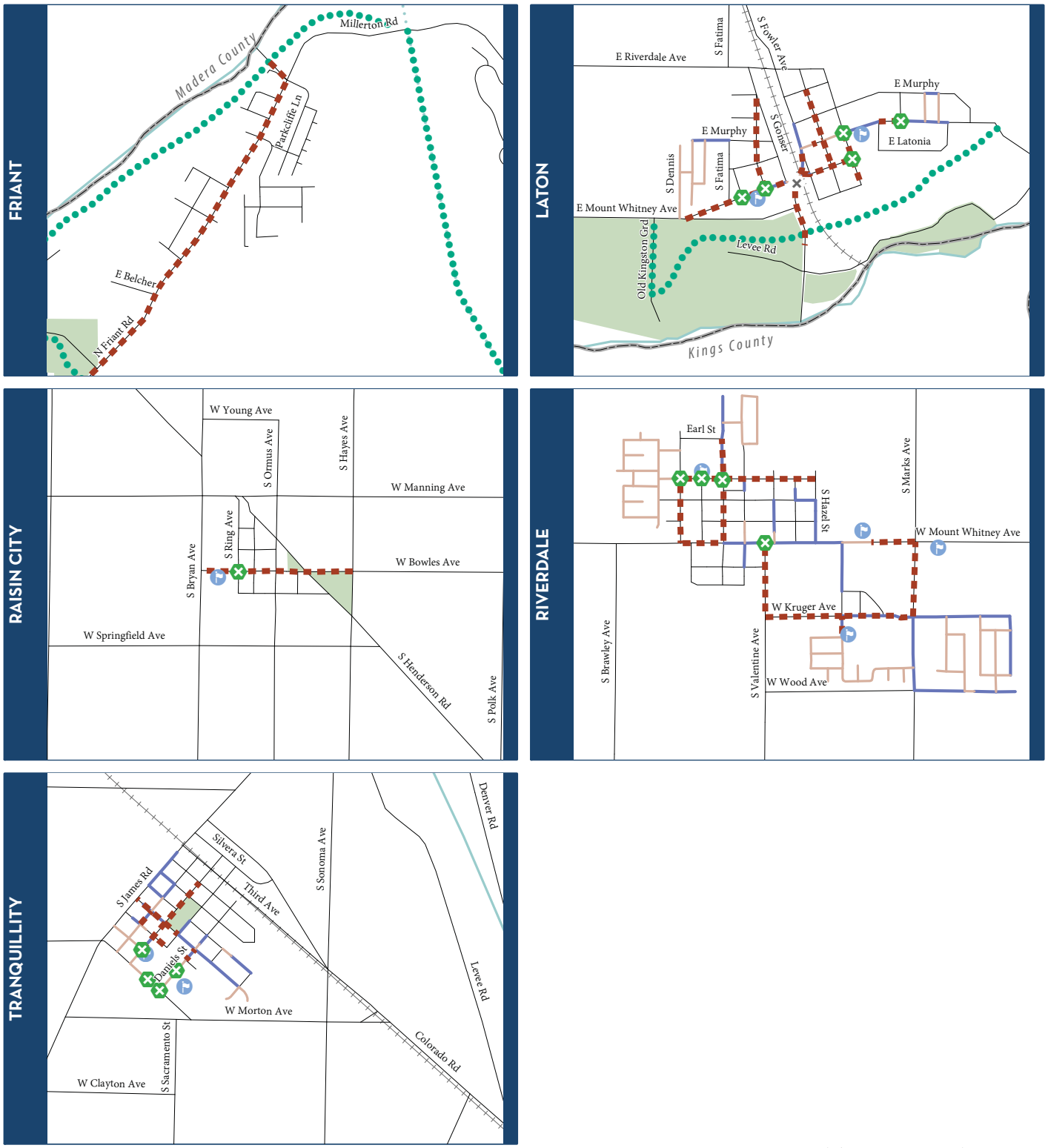
Figure 6-27: Fresno County Unincorporated Community Planned Pedestrian Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Intersection Improvements\Pedestrian Crossing
- Funded Intersection Improvements\Pedestrian Crossing
- Construct Sidewalks
- Planned Shared-Use Path
- Existing Shared-Use Path
- Sidewalk Present on Both Sides
- Sidewalk Present on One Side
- School
- Park/Open Space
- County Boundary

Figure 6-27: Fresno County Unincorporated Community Planned Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

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- Funded Intersection Improvements\Pedestrian Crossing
- Construct Sidewalks
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- Sidewalk Present on Both Sides
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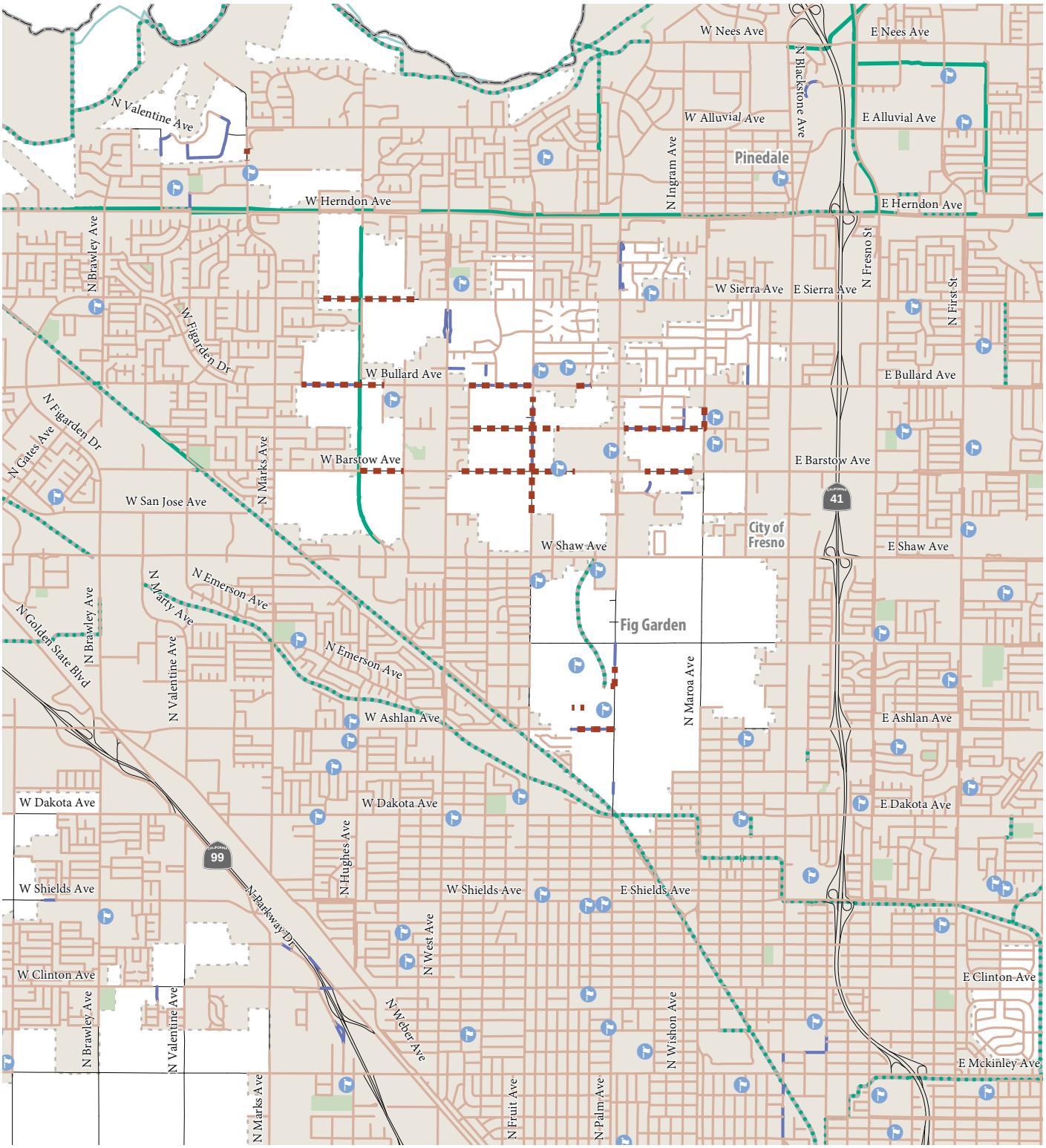
Figure 6-28: Fresno County Unincorporated County Island Planned Pedestrian Facilities



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Construct Sidewalks
- Intersection Improvements\Pedestrian Crossing
- Planned Shared-Use Path
- Funded Intersection Improvements\Pedestrian Crossing
- Project Covered by Other Plans
- School
- Sidewalk Present on Both Sides
- Sidewalk Present on One Side
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- Park/Open Space
- City Limits
- County Boundary

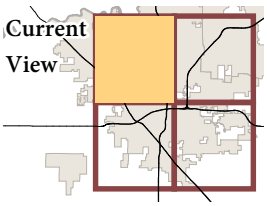
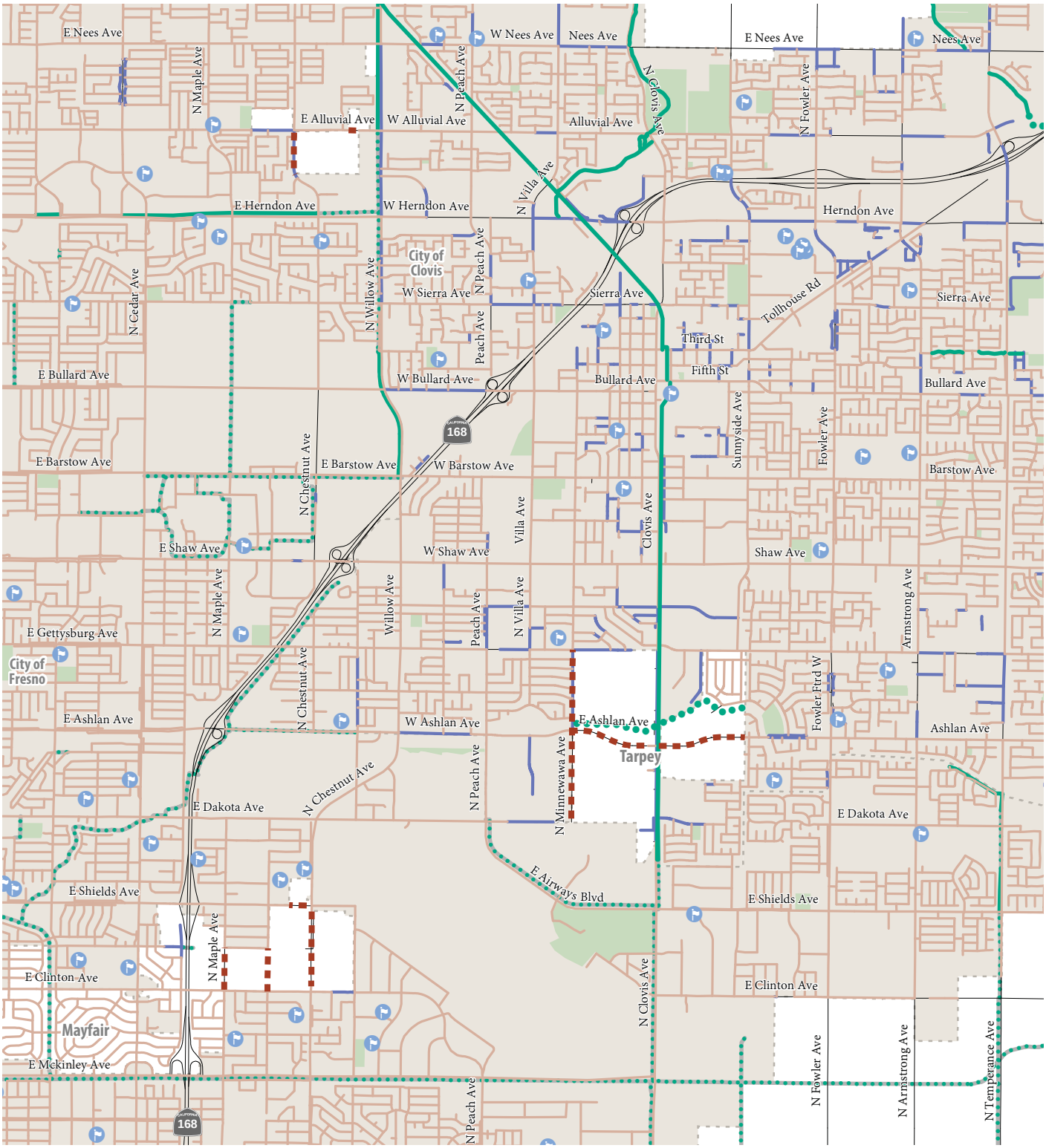


Figure 6-28: Fresno County Unincorporated County Island Planned Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

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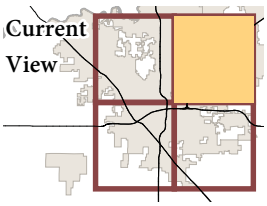
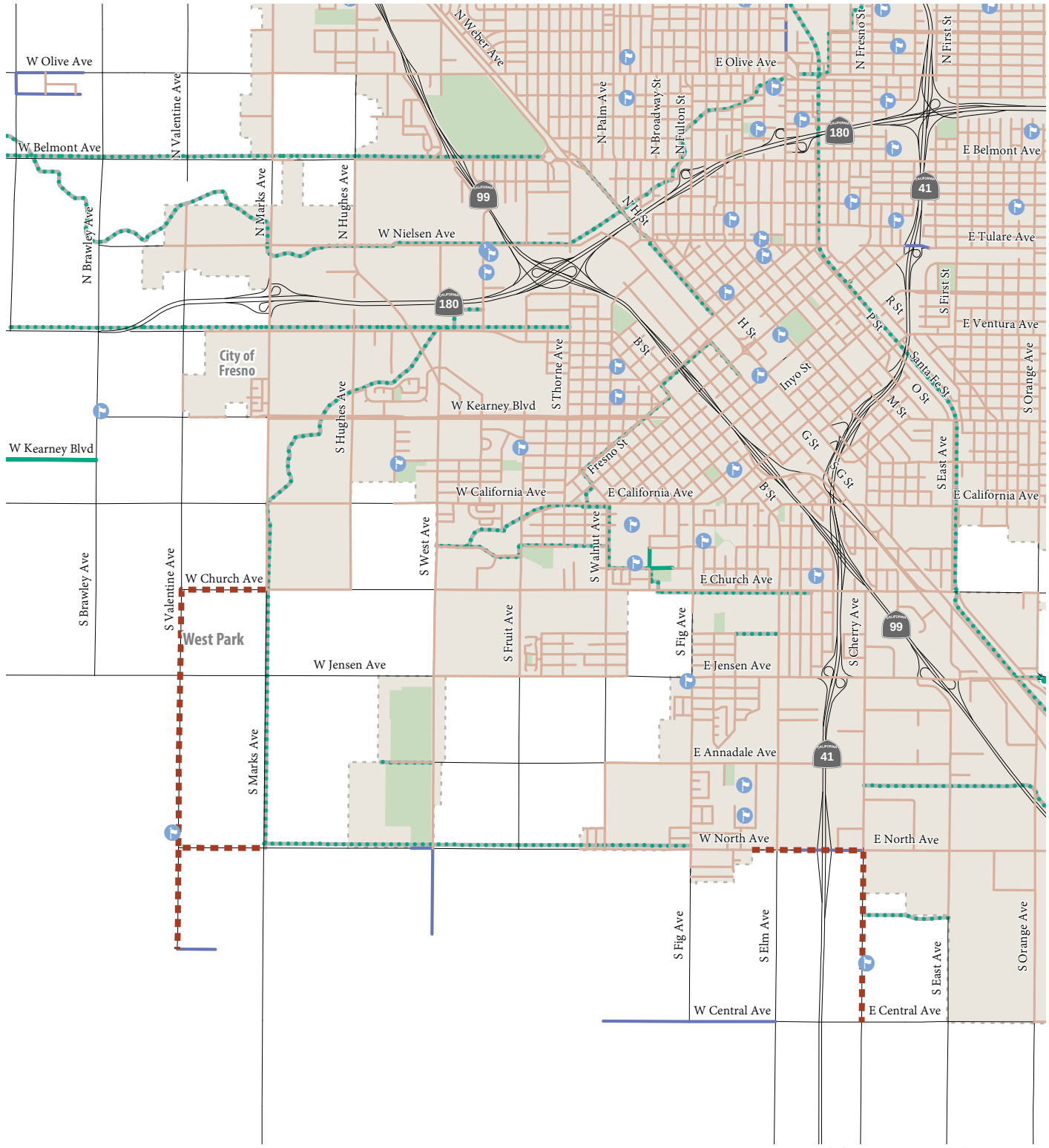


Figure 6-28: Fresno County Unincorporated County Island Planned Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

- Construct Sidewalks
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- Funded Intersection Improvements\Pedestrian Crossing
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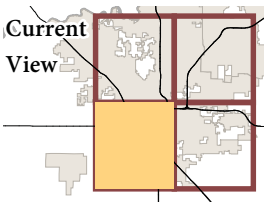
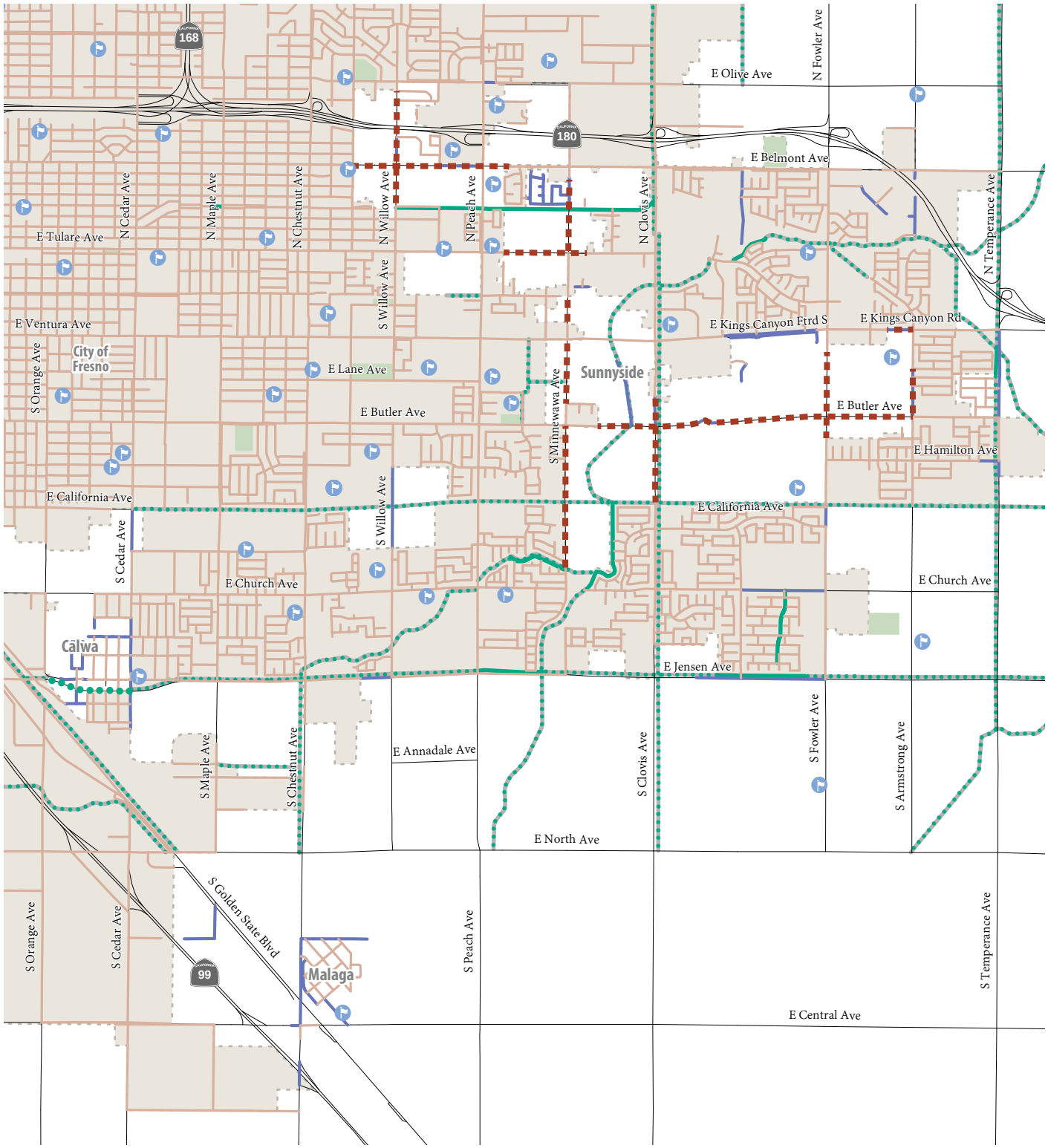
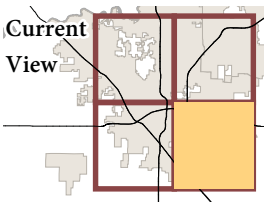


Figure 6-28: Fresno County Unincorporated County Island Planned Pedestrian Facilities (cont.)



Source: Fresno Council of Governments, 2017, Fehr & Peers, 2017

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- Sidewalk Present on One Side
- Existing Shared-Use Path
- Waterway
- Canal
- Park/Open Space
- City Limits
- County Boundary