

Appendix C: Mapping Analysis

Note: The mapping analysis of the Draft 2017 TIP Investment Analysis is also available as an online mapping tool at: <http://arccg.is/1ttLWBz>.

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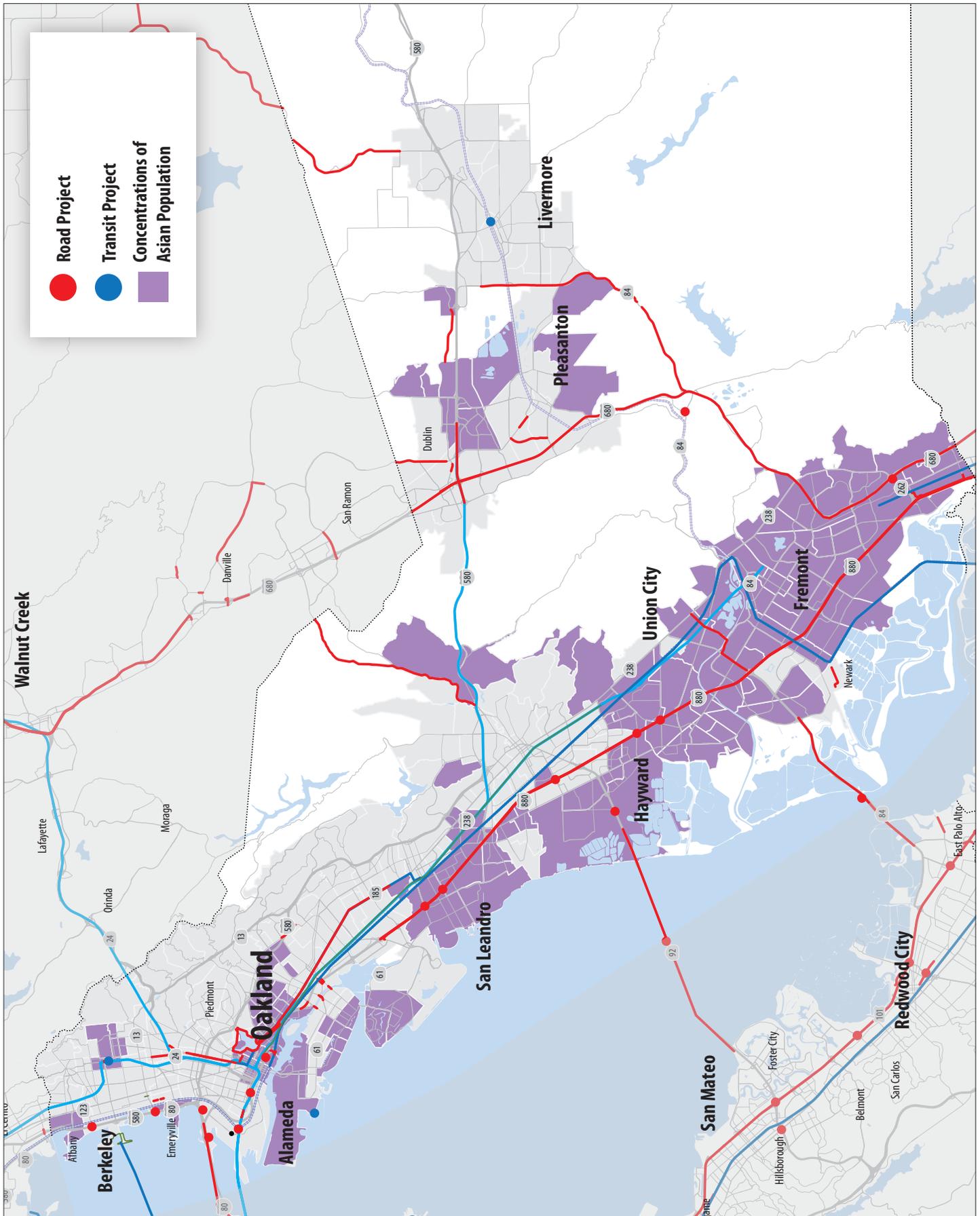


Alameda County

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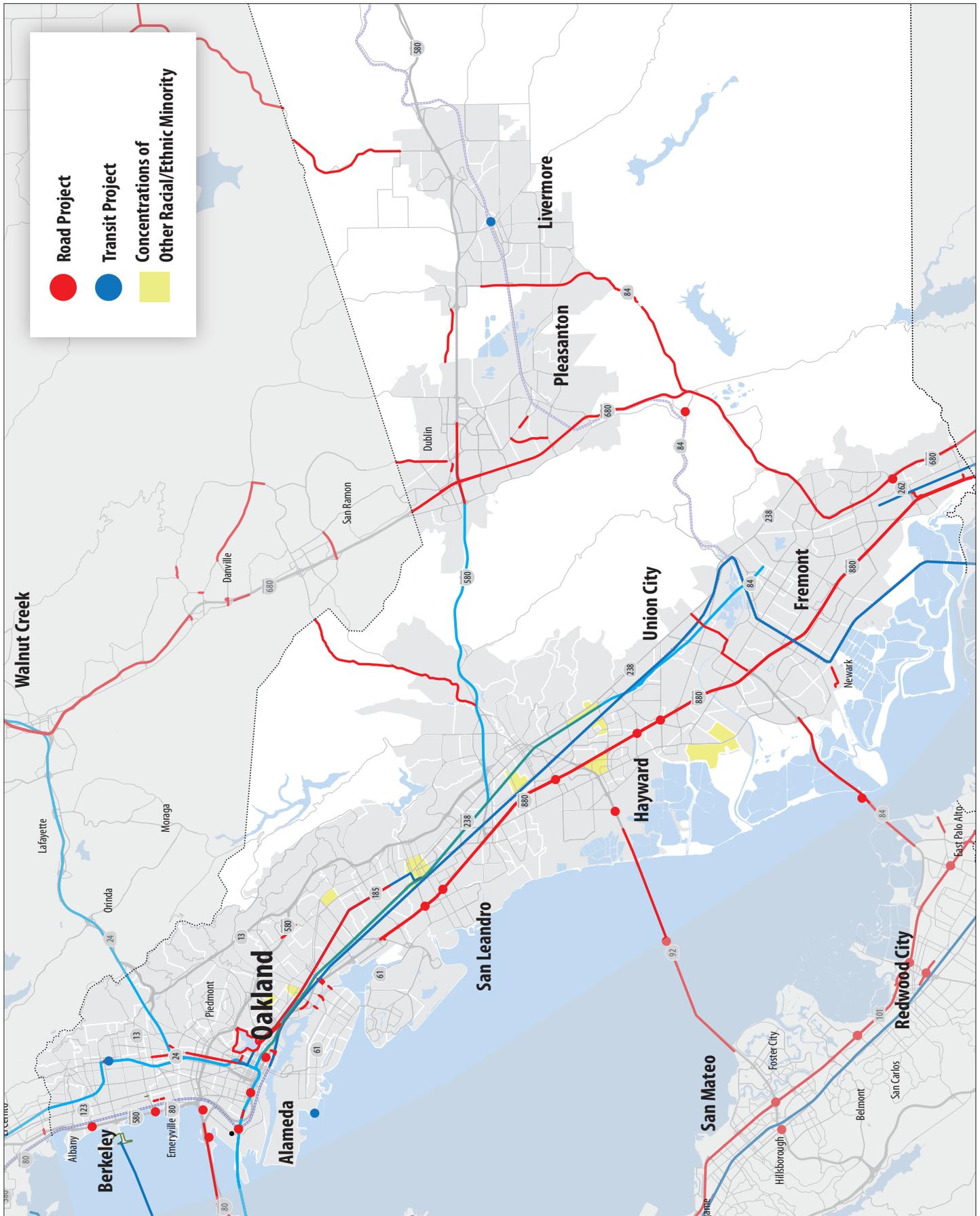
- 1 AC Transit: East Bay Bus Rapid Transit
- 2 East Bay Greenway
- 3 East-West Connector in Fremont & Union City
- 4 I-580/680 Interchange HOV/HOT Widening
- 5 I-680 NB HOV/HOT Lane
- 6 I-80/Ashby Avenue Interchange Improvements
- 7 I-880 NB HOV/HOT: North of Hacienda to Hegenberger
- 8 I-880 North Safety Improvements
- 9 I-880 SB HOV Lanes - Marina Blvd to Hegenberger
- 10 I-880/Industrial Parkway West Interchange
- 11 I-880/West Winton Avenue Interchange
- 12 I-880/Whipple Road Interchange Improvements
- 13 Route 84 widening, Pigeon Pass to I-680
- 14 SR 84 Expressway Widening
- 15 State Route 262 (Mission Blvd) Improvements
- 16 Widen I-680 NB and SB for EL from SR-84 to Alcosta
- 17 Oakland/Alameda Freeway Access Project
- 18 Alameda: Vasco Road Safety Improvements
- 19 Crow Canyon Safety Improvements
- 20 Estuary Bridges Seismic Retrofit and Repairs
- 21 Fruitvale Ave Roadway Bridge Retrofit
- 22 Niles Canyon Rd (SR 84)/Pleas-Sunol Rd Inter. Imps
- 23 ALA-880 Express Lanes
- 24 Downtown Berkeley BART Plaza/Transit Area Imps.
- 25 9th St Bicycle Blvd Extension Pathway Ph II
- 26 Bay Trail Shoreline Access Staging Area Project
- 27 I-80 Gilman Interchange Reconfiguration
- 28 Shattuck Complete Streets and De-Couplet
- 29 Dougherty Road widening
- 30 Dublin Blvd. - North Canyons Pkwy Extension
- 31 Dublin Boulevard widening
- 32 Emeryville - Hollis Street Preservation
- 33 Widen Kato Rd from Warren Avenue to Milmont Drive
- 34 I-880 Auxiliary lanes at Industrial Parkway
- 35 I-880 NB and SB Auxiliary lanes
- 36 Rt 92/Clawiter/Whitesell Interchange Improvements
- 37 Livermore Relocation and Restoration of R/R Depot
- 38 Bay Bridge Park
- 39 Improved Bike/Ped Access to East Span of SFOBB
- 40 Enterprise Drive Complete Streets and Road Diet
- 41 19th St BART to Lake Merritt Urban Greenway
- 42 42nd Ave. & High St. I-880 Access Improv.
- 43 7th Street West Oakland Transit Village, Phase II
- 44 International Boulevard Improvement Project
- 45 Lake Merritt Improvement Project
- 46 Lake Merritt to Bay Trail Bike/Ped Bridge
- 47 Laurel Access to Mills, Maxwell Park and Seminary
- 48 Oakland Army Base Infrastructure Improvements
- 49 Oakland Waterfront Bay Trail
- 50 Oakland: Shattuck and Claremont Bike/Ped Imps
- 51 Oakland: Telegraph Ave Bike/Ped Imps and Road Diet
- 52 Oakland: Telegraph Avenue Complete Streets
- 53 Pleasanton Complete Streets
- 54 Port of Oakland: Roads, Rails and Tech (GoPort!)
- 55 I-880/Marina Blvd Interchange and Overcrossing Rep
- 56 I-880/SR 112 Overcrossing Replacement
- 57 Central Bay Operations and Maintenance Facility
- 58 Oakland to San Jose Double Track (Segment 2A)
- 59 Toll Bridge Maintenance
- 60 Toll Bridge Rehabilitation Program
- 61 Ferry Service - Berkeley/Albany

Alameda County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



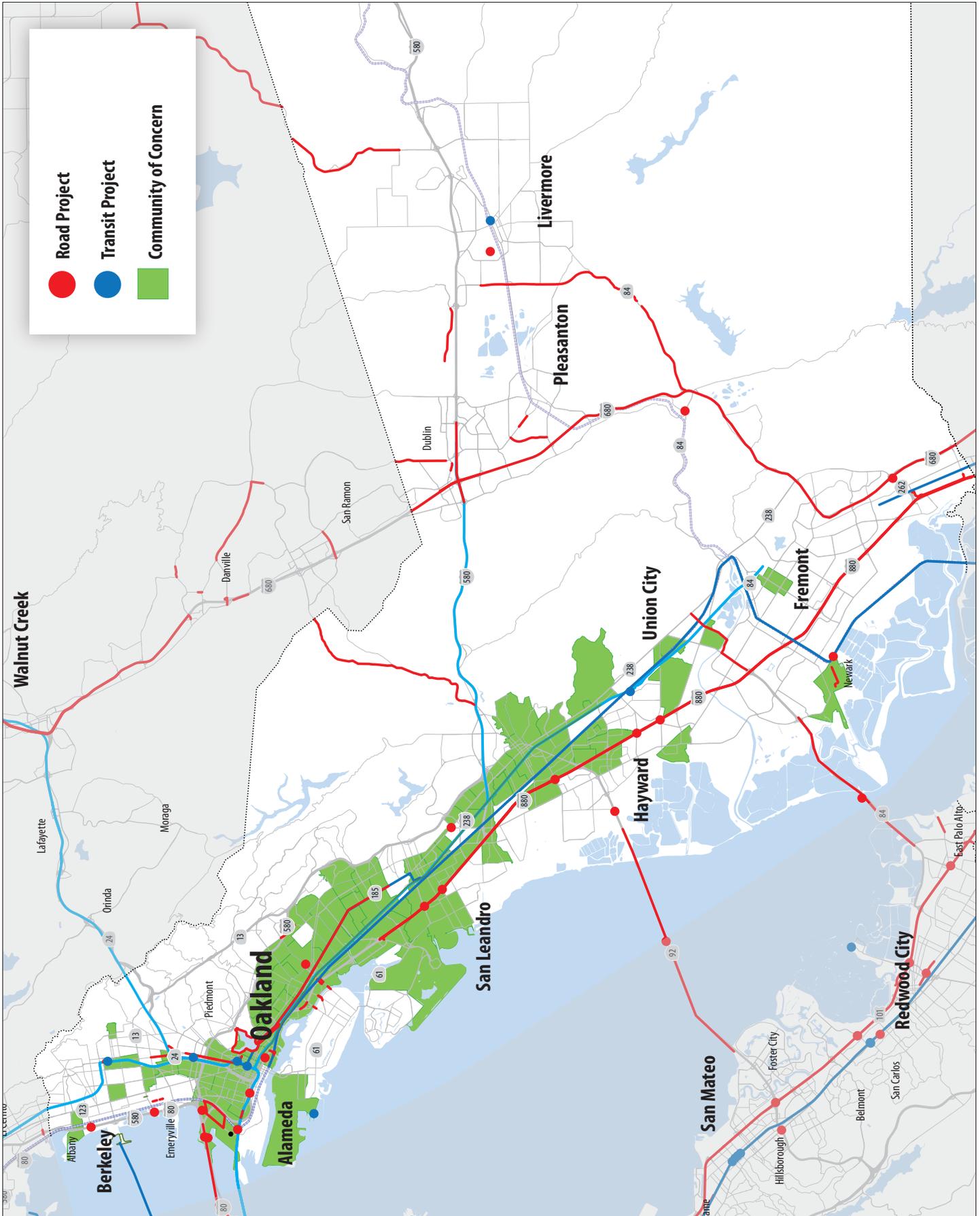
List and map include only projects that can be mapped.
 An interactive version of these maps is posted online at: <http://arcg.is/1tLWBz>.

Alameda County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Other Racial/Ethnic Minority Population



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Alameda County: Overlay of 2017 TIP Mapped Projects over Communities of Concern



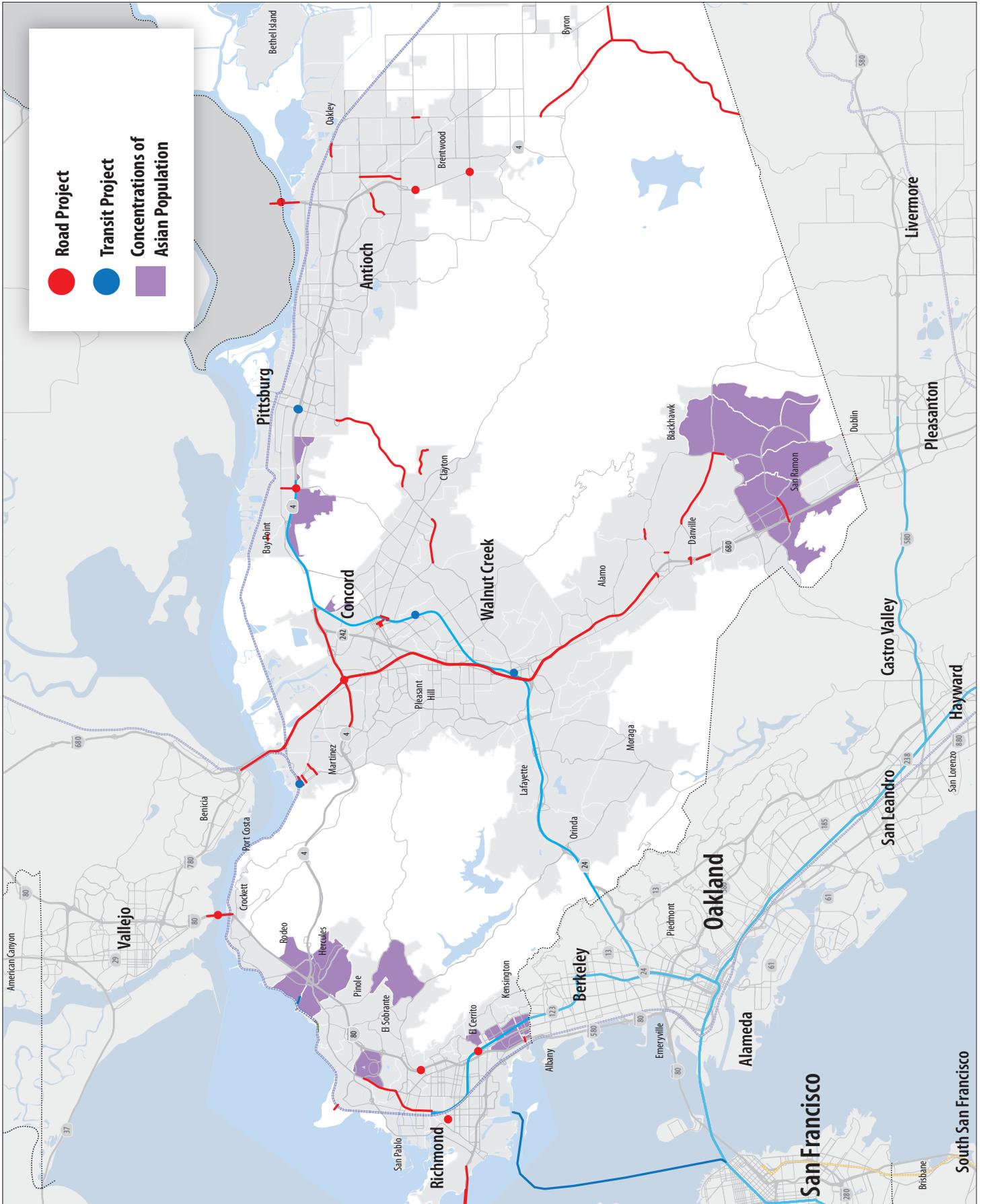
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Contra Costa County

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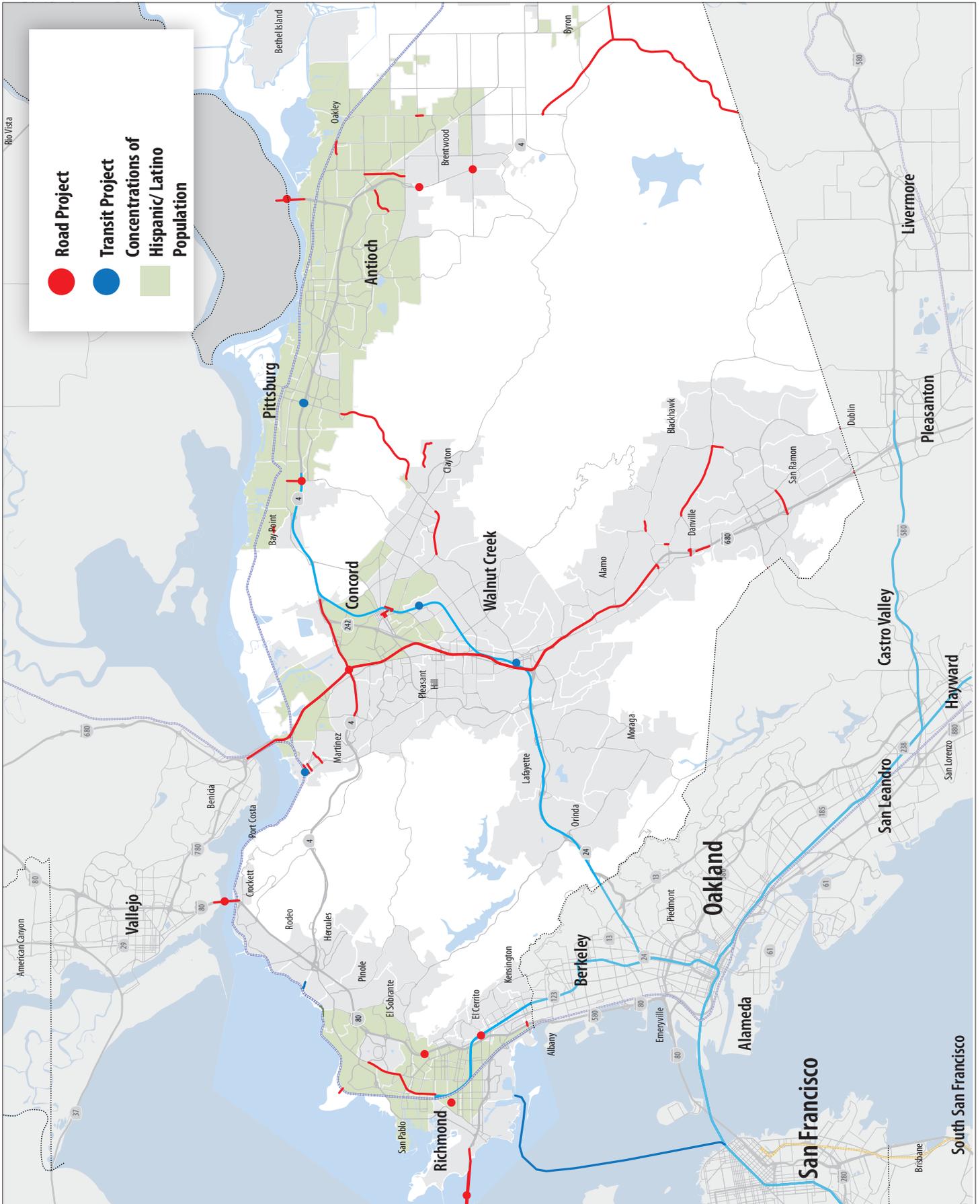
- 1 Laurel Road Extension
- 2 Slatten Ranch Road Extension
- 3 CC-680 Northern Segment Express Lane - Northbound
- 4 CC-680 Northern Segment Express Lane - Southbound
- 5 Concord Yard Wheel Truing Facility
- 6 eBART Railroad Avenue Station
- 7 Walnut Creek BART TOD Access Improvements
- 8 SR4/Brentwood Boulevard Widening - North (Phase I)
- 9 Bailey Road Bike and Pedestrian Improvements
- 10 Bailey Road-State Route 4 Interchange
- 11 Byron Highway - Vasco Road Connection
- 12 CC County - Rio Vista Elementary Ped Connection
- 13 Kirker Pass Road NB Truck Climbing Lanes
- 14 Vasco Road Safety Improvements
- 15 I-680 / SR 4 Interchange Reconstruction - Phase 3
- 16 I-680 NB HOV Lane Extension
- 17 I-680 SB HOV Lane Completion
- 18 I-680/SR 4 I/C Reconstruction - Phases 1, 2, 4 & 5
- 19 Mokelumne Trail Bike/Ped Overcrossing
- 20 Reconstruct I-80/San Pablo Dam Rd Interchange
- 21 SR4: Balfour Road Interchange
- 22 Clayton Various Streets Preservation
- 23 Concord BART Station Bike/Ped Access Improvements
- 24 Ygnacio Valley/Kirker Pass Roads Widening
- 25 Crow Canyon/Camino Tassajara Intersection Imps
- 26 Danville Various Streets and Roads Preservation
- 27 Diablo Road Imps. - Green Valley to Avenida Neuva
- 28 San Ramon Valley Blvd Lane Addition and Overlay
- 29 Vista Grande Street Pedestrian Improvements/SR2S
- 30 Atlas Road - New Bridge and Roadway Extension
- 31 SF Bay Trail, Pinole Shores to Bay Front Park
- 32 Del Norte Area TOD Complete Street Imps
- 33 Hercules Intercity Rail Station
- 34 Martinez Intermodal Station Parking Expansion
- 35 Martinez Various Streets and Roads Preservation
- 36 Main Street (Previously SR 4) Realignment in Oakley
- 37 Pittsburg Multimodal Transit Station Access Imps.
- 38 I-80/Central Avenue Interchange Modification
- 39 The Yellow Brick Road in Richmond's Iron Triangle
- 40 Rumrill Blvd Complete Streets Improvements
- 41 San Pablo Avenue Bicycle and Ped Improvements
- 42 Bollinger Canyon Road Widening (Alcosta to SRVB)
- 43 Richmond Ferry Service
- 44 Toll Bridge Maintenance
- 45 Toll Bridge Rehabilitation Program

Contra Costa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



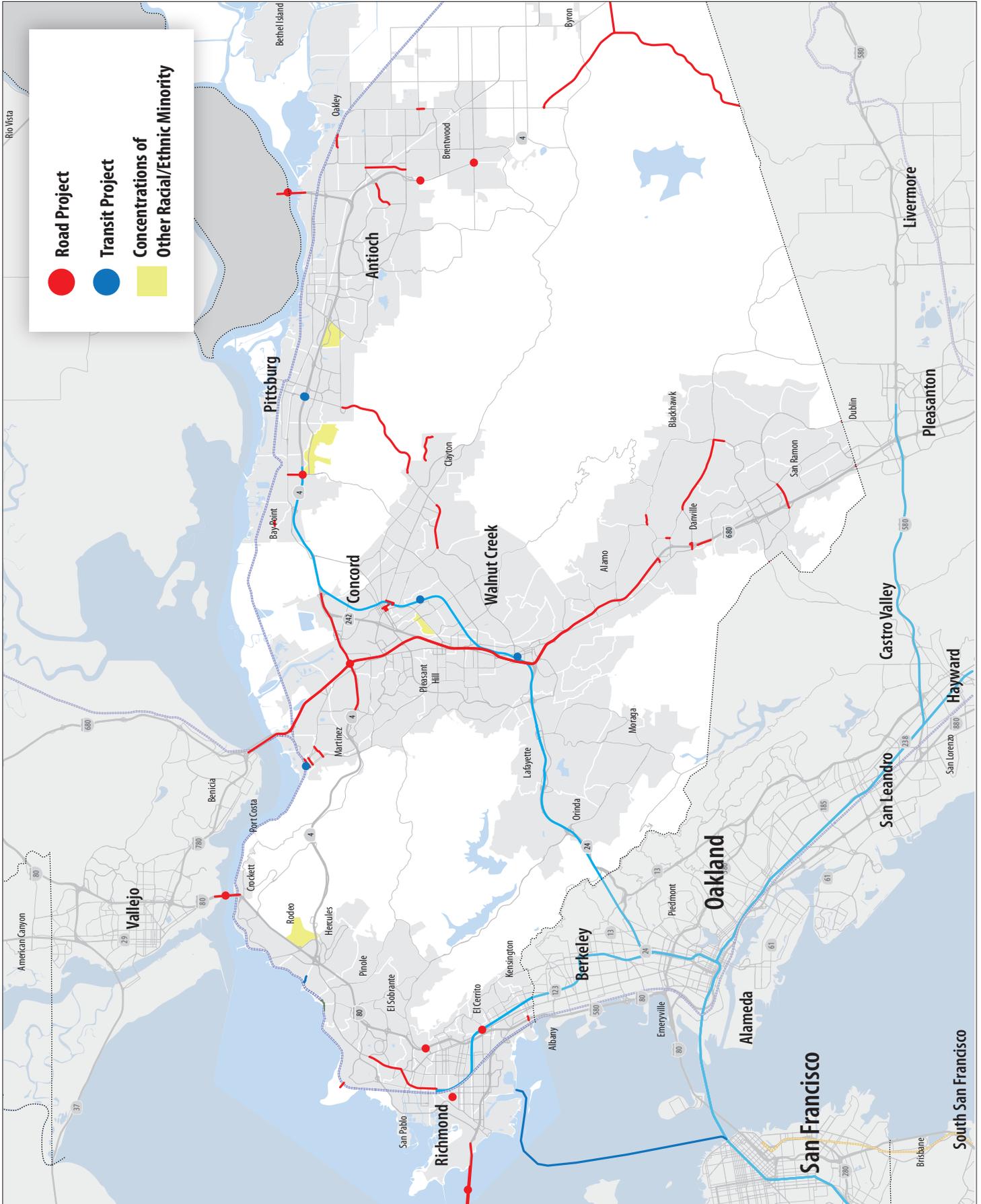
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Contra Costa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



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Contra Costa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Other Racial/Ethnic Minority Population

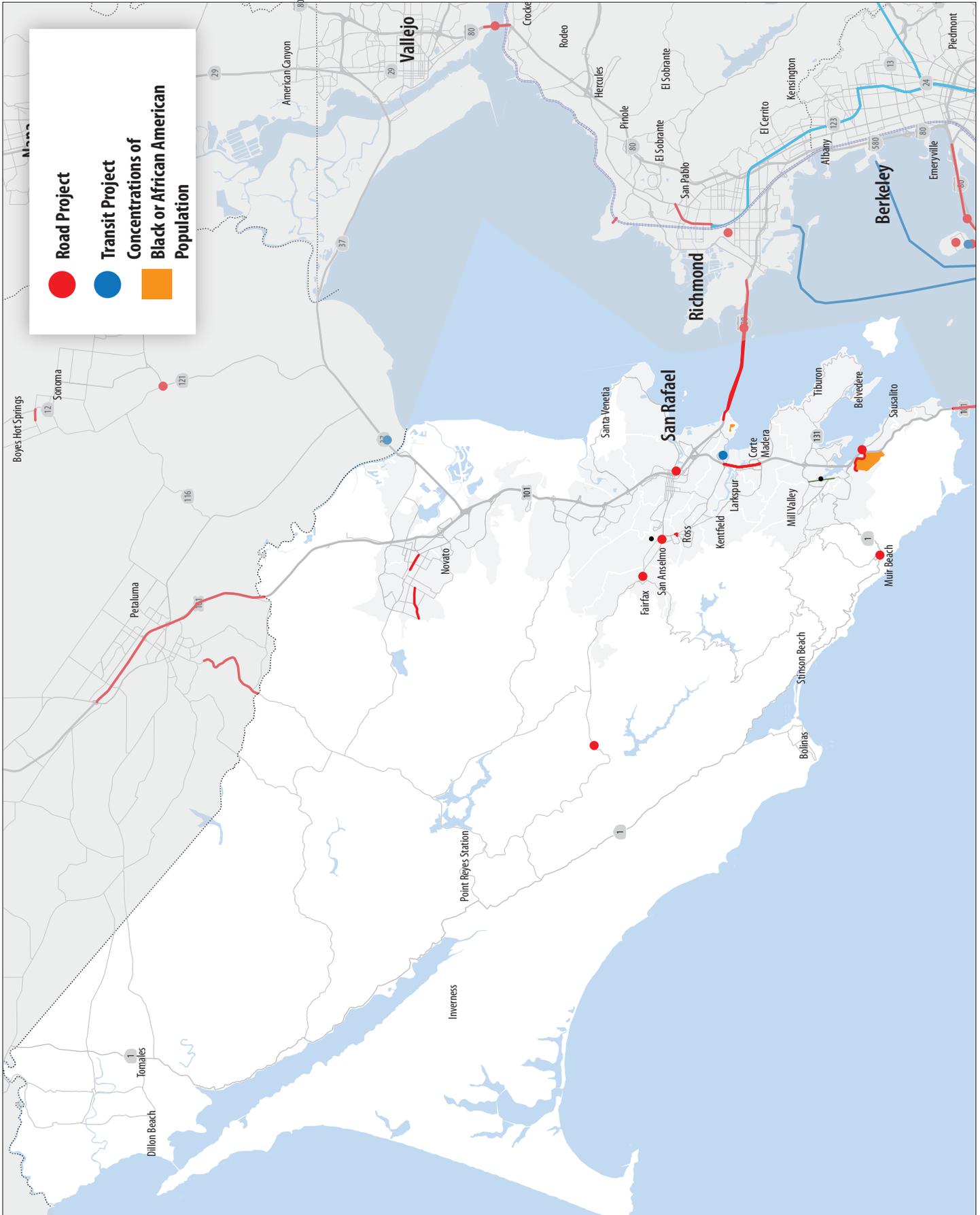


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Marin County Index of Projects

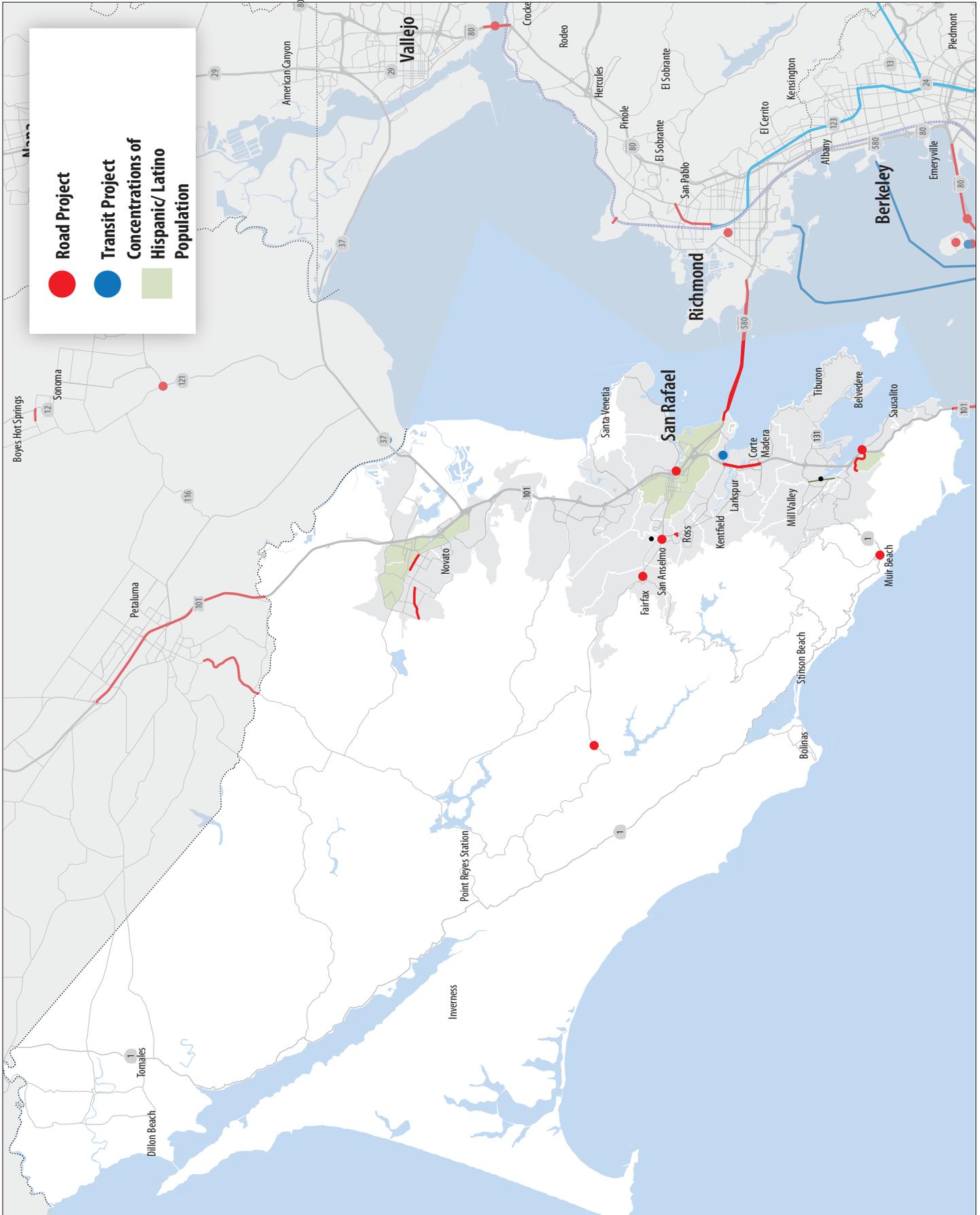
- 1 Parkade Circulation and Safety Improvements
- 2 Golden Gate Bridge Seismic Retrofit, Ph: 1-3A
- 3 Golden Gate Bridge Seismic Retrofit, Phase 3B
- 4 Golden Gate Bridge-Suicide Deterrent SafetyBarrier
- 5 Larkspur Ferry Terminal Parking Garage
- 6 Donahue Street Road Rehabilitation Project
- 7 Marin Parklands Visitor Access, Phase 2
- 8 Mill Valley-Sausalito Pathway Preservation
- 9 Mountain View Rd Bridge Replacement - 27C0154
- 10 Bayfront Park Recreational Bay Access Pier Rehab
- 11 Richmond-San Rafael Bridge Access Improvements
- 12 Novato Boulevard Widening, Diablo to Grant
- 13 Vineyard Road Improvements
- 14 Bolinas Avenue and Sir Francis Drake Intersection
- 15 San Anselmo - Center Blvd Bridge Replace (27C0079)
- 16 Sunny Hill Ridge and Red Hill Trails
- 17 Grand Avenue Bicycle Pedestrian Improvements
- 18 Sausalito - Bridgeway/US 101 Off Ramp Bicycle Imps
- 19 US 101 / Greenbrae Interchange Corridor Impts.
- 20 Toll Bridge Maintenance
- 21 Toll Bridge Rehabilitation Program

Marin County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



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Marin County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



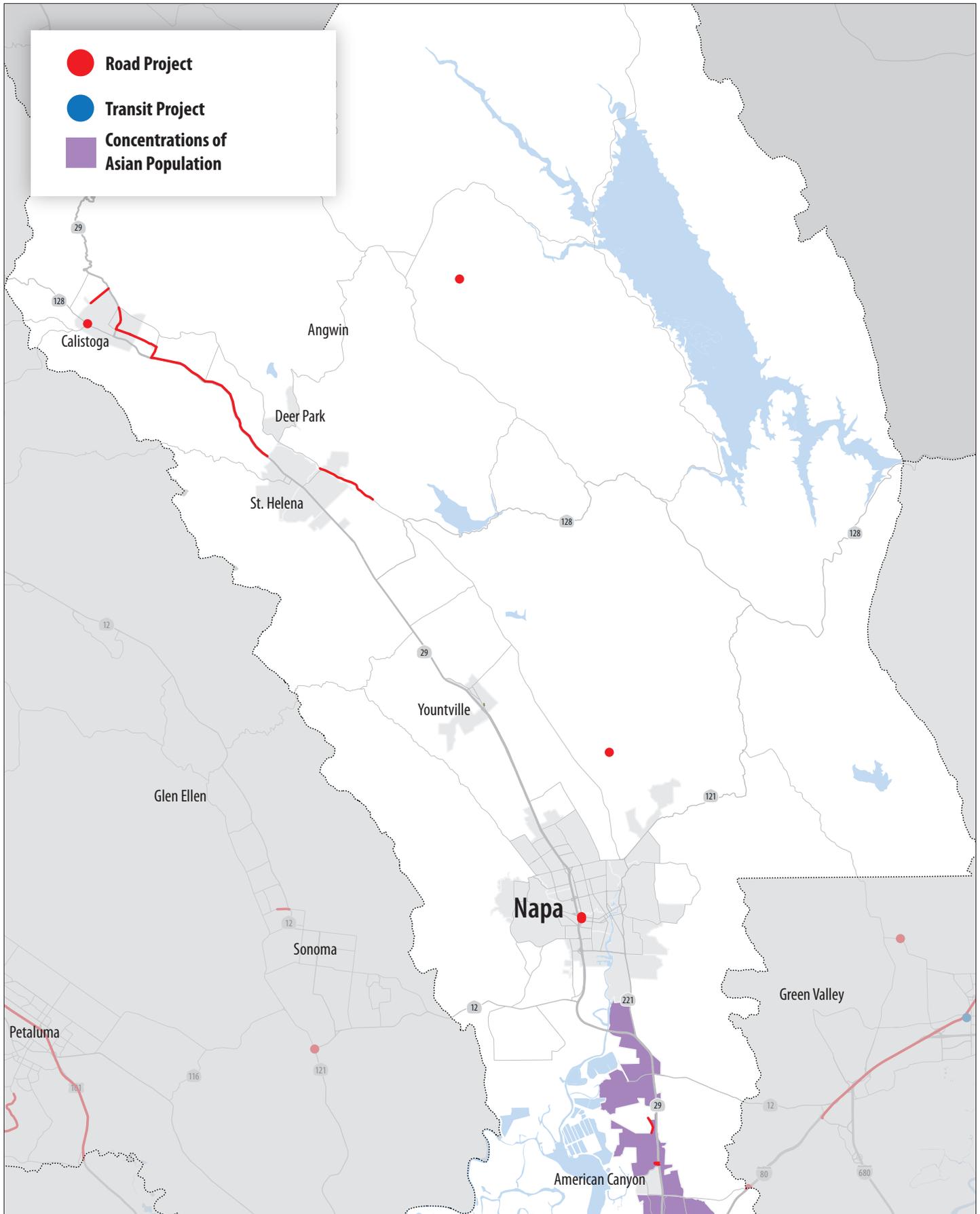
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Napa County

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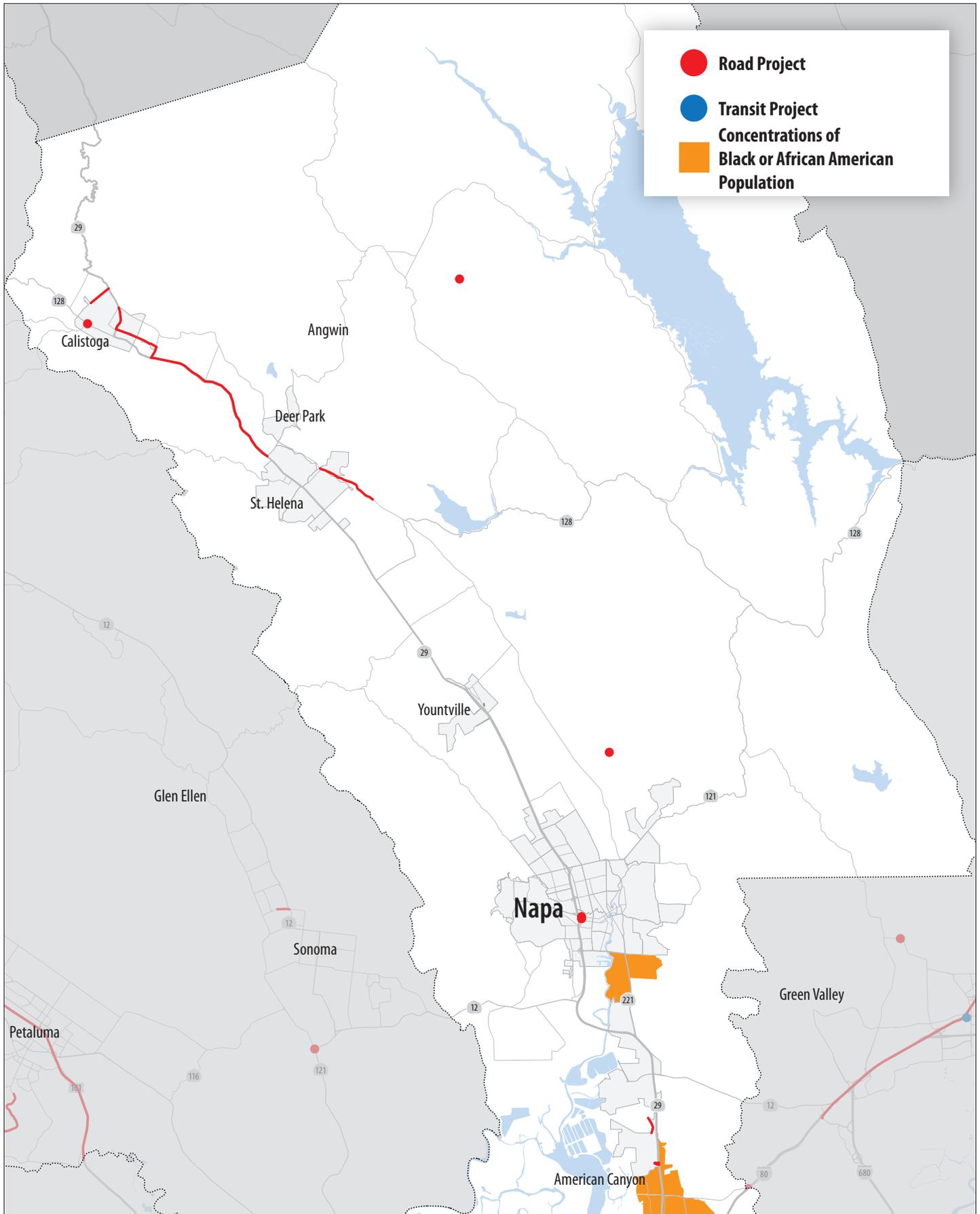
- 1 Devlin Road and Vine Trail Extension**
- 2 Eucalyptus Drive Realignment Complete Streets**
- 3 SR 128 and Petrified Forest Intersection Imp**
- 4 California Boulevard Roundabouts**
- 5 Garnett Bridge Greenwood Ave**
- 6 Hardin Rd Bridge Replacement - 21C0058**
- 7 Loma Vista Dr Bridge Replacement - 21C0080**
- 8 Silverado Trail Phase H Rehab**
- 9 Napa Valley Vine Trail Calistoga-St. Helena Seg.**
- 10 Hopper Creek Pedestrian Bridge and Path Project**

Napa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



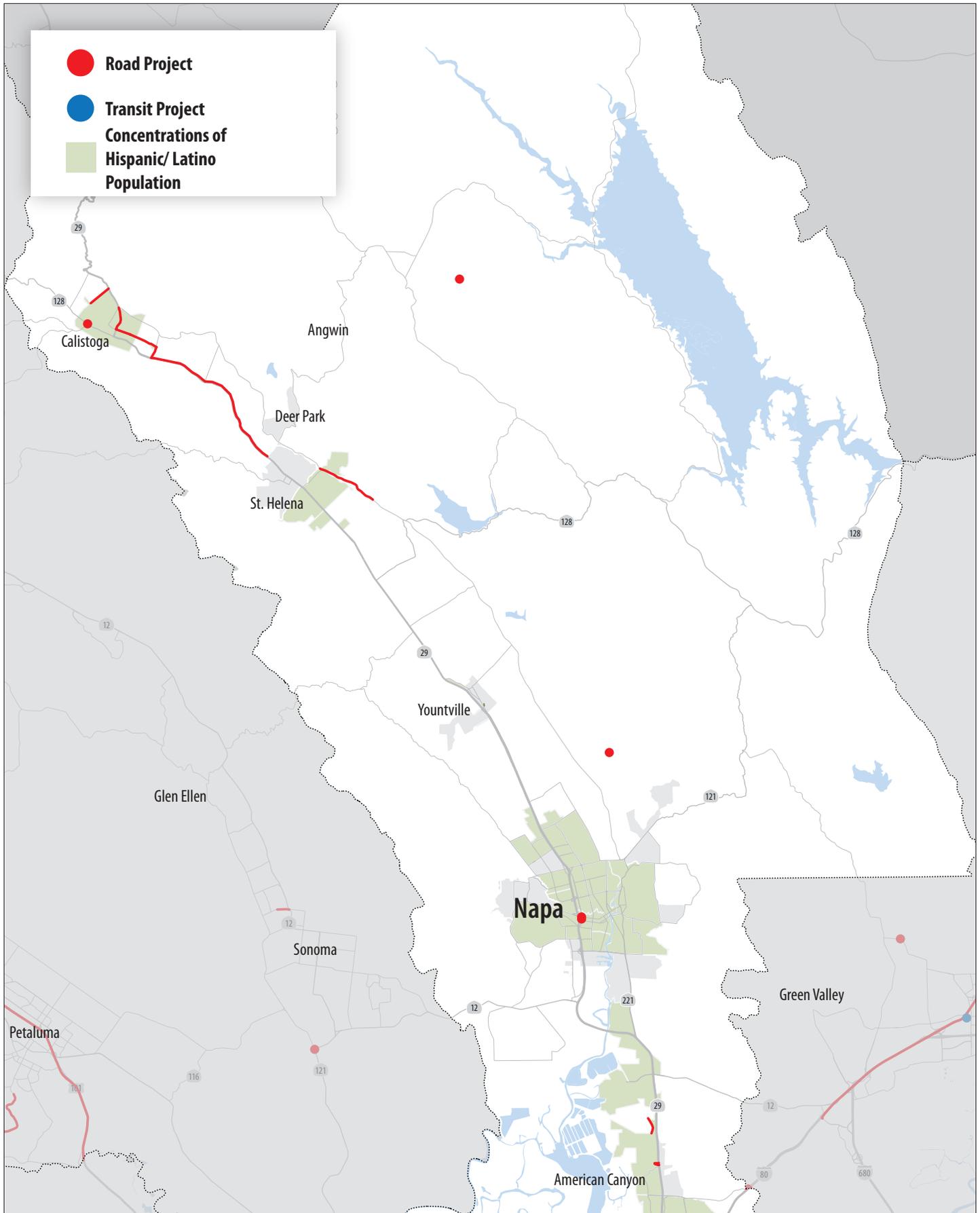
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Napa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



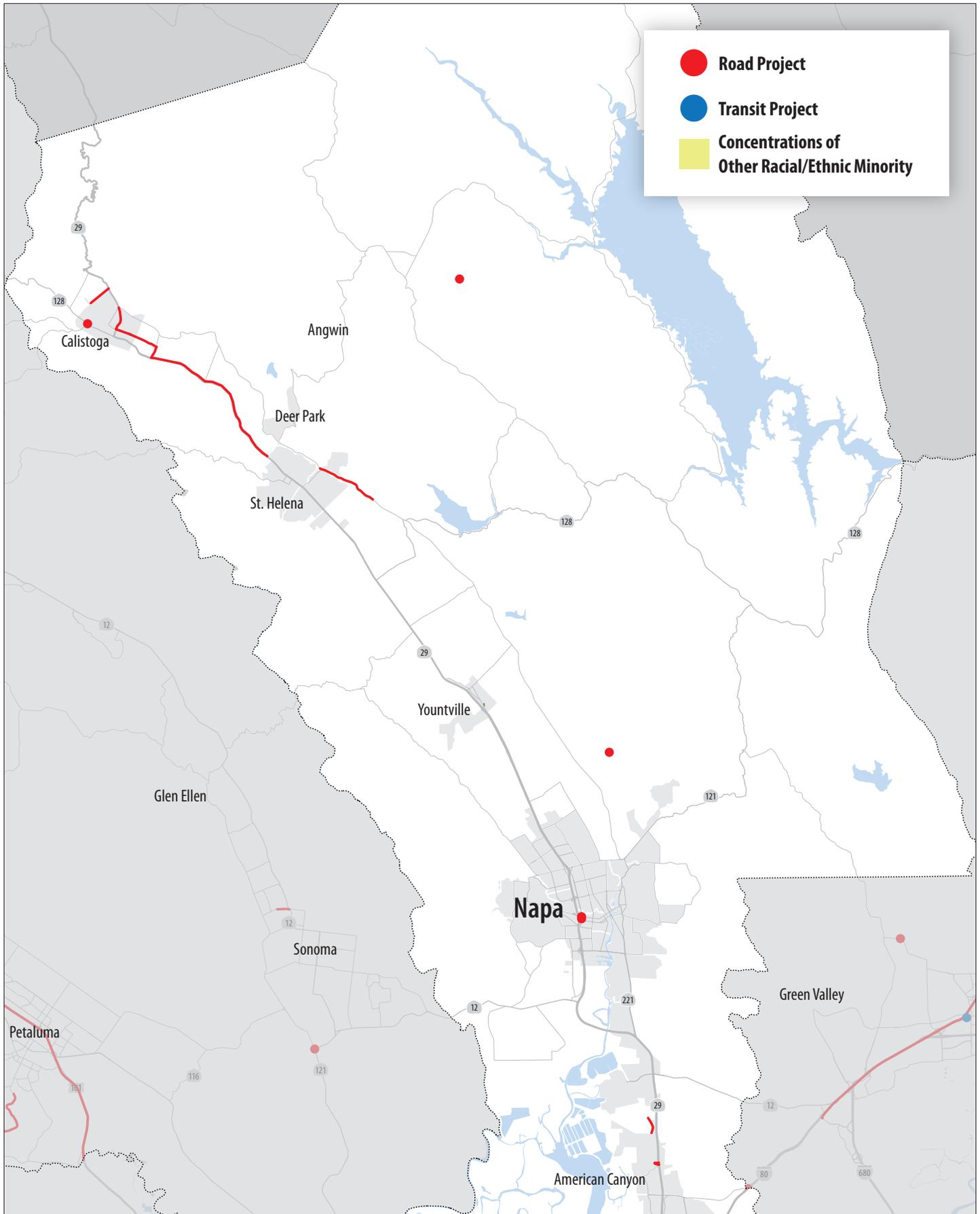
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Napa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



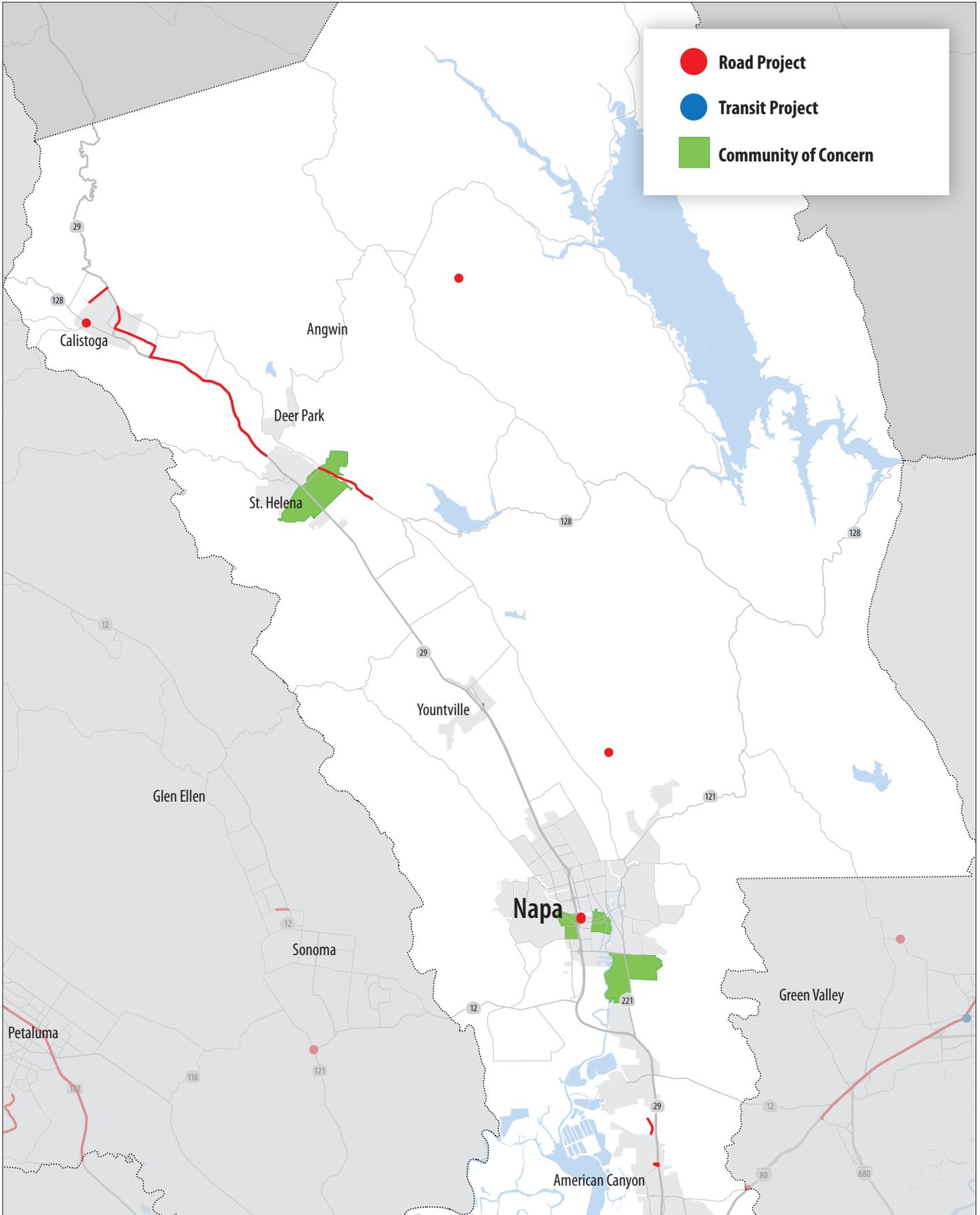
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Napa County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Other Racial/Ethnic Minority Population



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Napa County: Overlay of 2015 TIP Mapped Projects over Communities of Concern



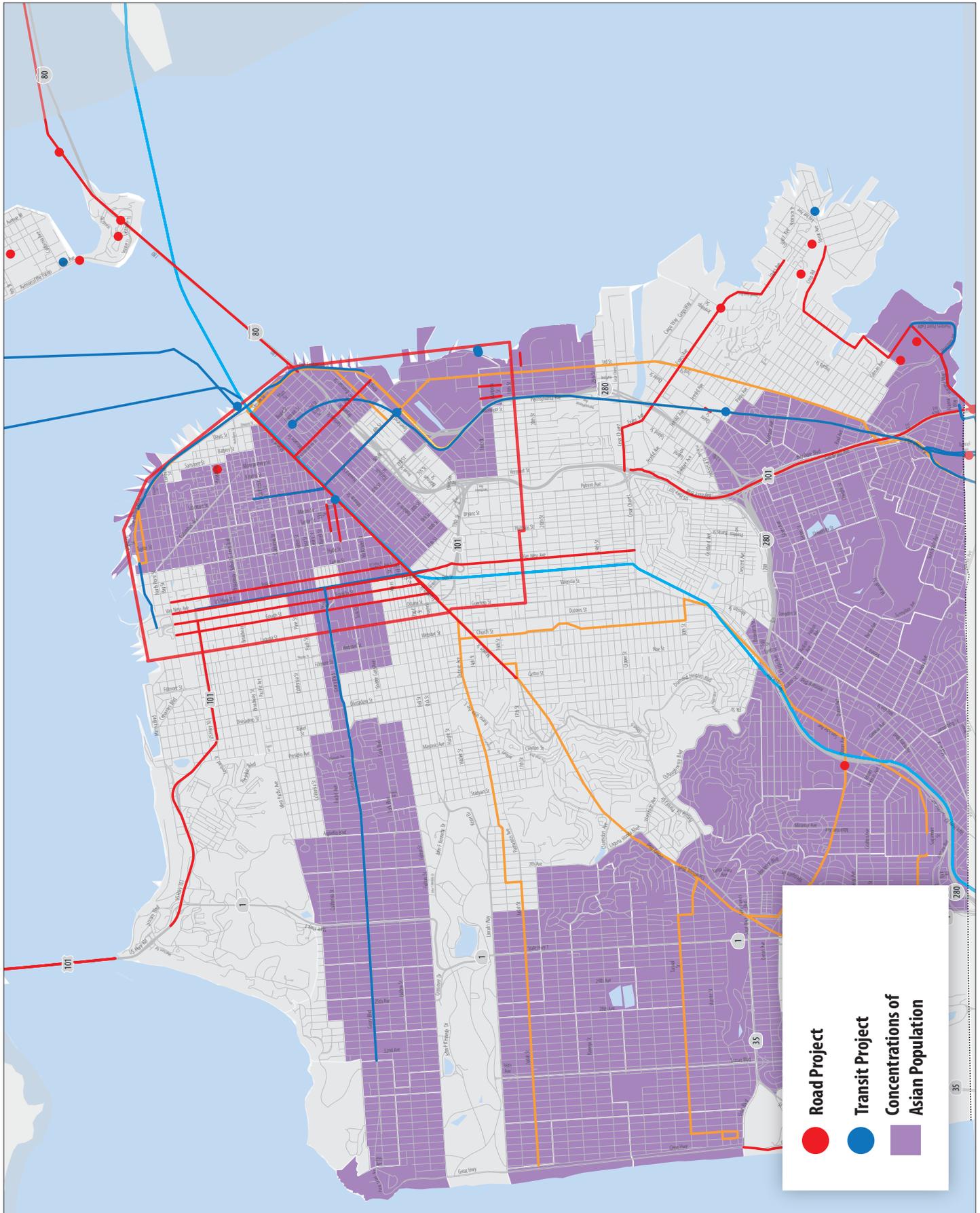
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San Francisco County

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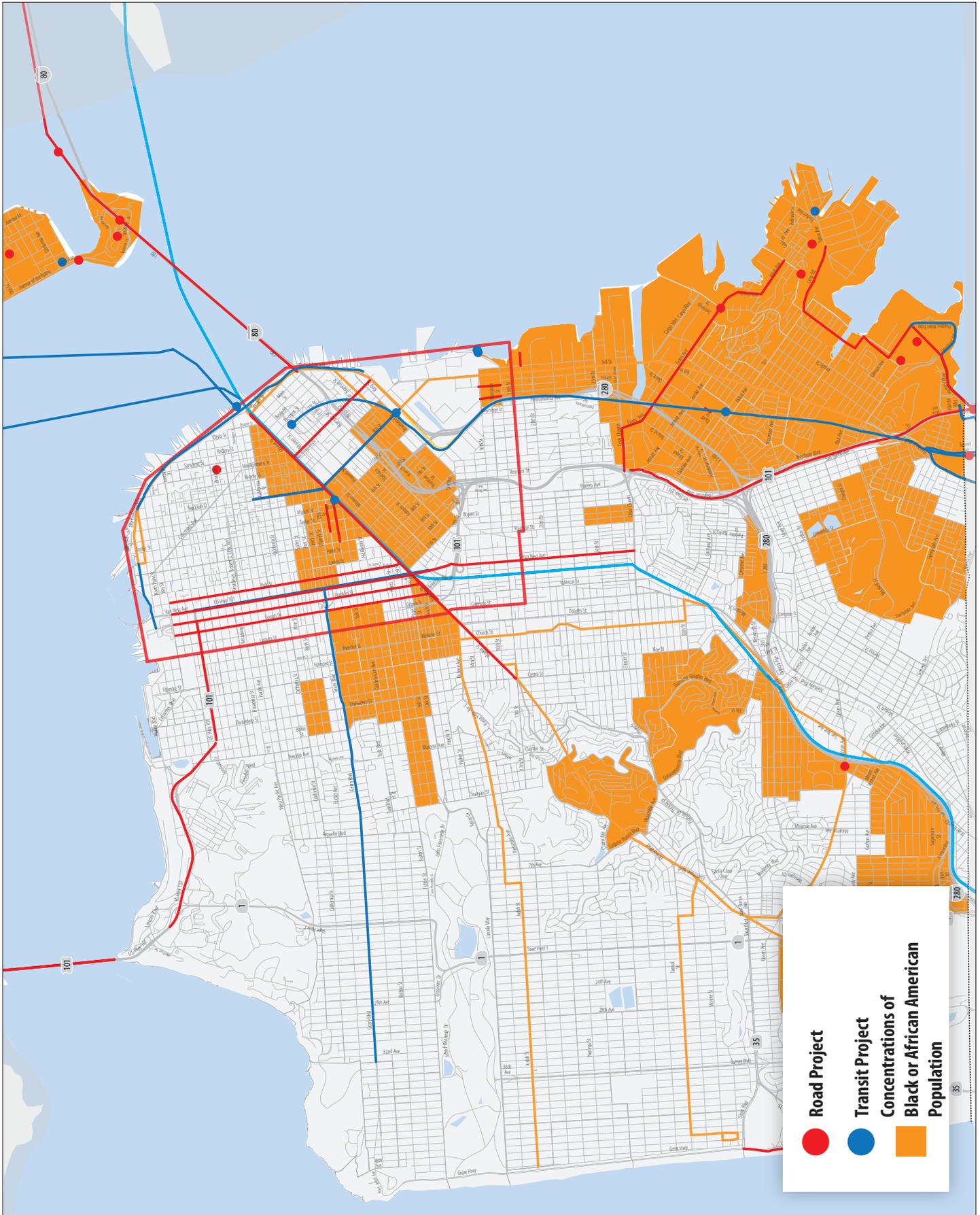
- 1 BART/MUNI Direct Connection Platform
- 2 Embarcadero Corridor Transportation Improvements
- 3 Mission Bay Ferry Terminal
- 4 Pier 70 19th Street & Illinois Street Sidewalk
- 5 Construct Treasure Island Bus Terminal Facility
- 6 Geary Bus Rapid Transit
- 7 HOV Lanes on US 101 in SF - Project Development
- 8 Oakdale Caltrain Station
- 9 Quint-Jerrold Connector Road
- 10 SB I-280 Off-Ramp at Ocean Ave Realignment
- 11 SF Downtown Congestion Pricing (NE Cordon)
- 12 Treasure Is/Yerba Buena Is Street Improvements
- 13 Treasure Island Congestion Pricing Program
- 14 US 101 Doyle Drive Replacement
- 15 Yerba Buena Island (YBI) Ramp Improvements
- 16 Bayview Transportation Improvements
- 17 Great Highway Restoration
- 18 Harney Way Roadway Widening
- 19 HOPE SF Street Grid Phase 1
- 20 Hunters Pt Shipyard and Candlestick Pt Local Roads
- 21 John Yehall Chin Safe Routes to School
- 22 Lombard Street Vision Zero Project
- 23 SF- Better Market Street Transportation Elements
- 24 SF- Second Street Complete Streets and Road Diet
- 25 Southeast Waterfront Transportation Improvements
- 26 19th Ave. & Parkmerced M-Line Realignment
- 27 Eddy and Ellis Traffic Calming Improvement Project
- 28 Geneva Harney BRT Infrastructure: Central Segment
- 29 Geneva Harney BRT Infrastructure: Eastern Segment
- 30 Historic Streetcar Extension to Fort Mason
- 31 Implement Parkmerced Street Network
- 32 Mission Bay/UCSF Multi-Modal Transportation Imps.
- 33 San Francisco Vision Zero Safety Investment
- 34 SF Muni Third St LRT Phase 2 - New Central Subway
- 35 SFGO-Corridor Management
- 36 Transit Center in Hunters Point
- 37 Van Ness Avenue Bus Rapid Transit
- 38 Transbay Term/Caltrain Downtown Ext - Ph.1
- 39 Transbay Terminal/Caltrain Downtown Ext: Ph. 2
- 40 Toll Bridge Maintenance
- 41 Toll Bridge Rehabilitation Program
- 42 Ferry Service - Berkeley/Albany
- 43 SF Ferry Terminal/Berthing Facilities
- 44 Caltrain Electrification

San Francisco County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



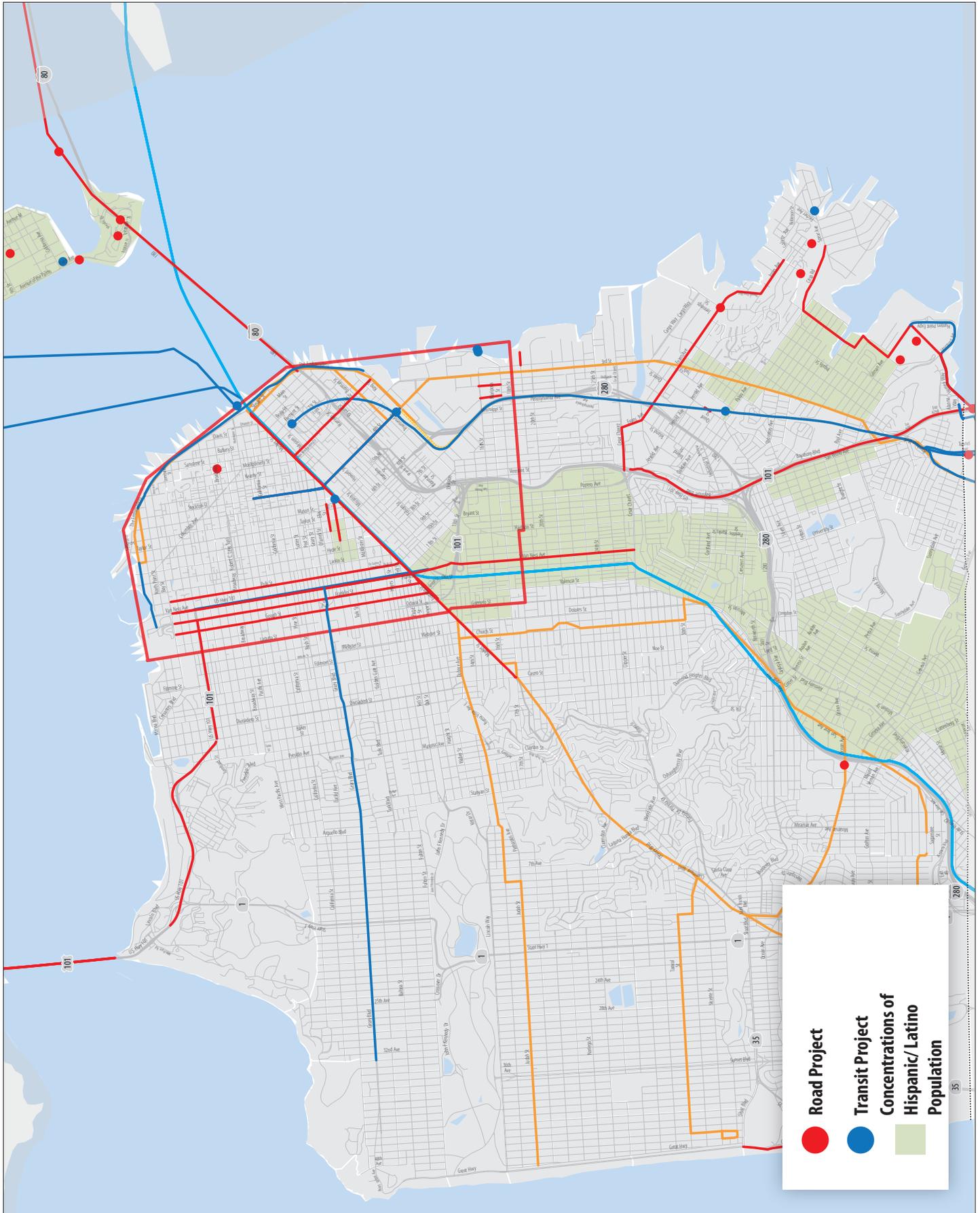
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San Francisco County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



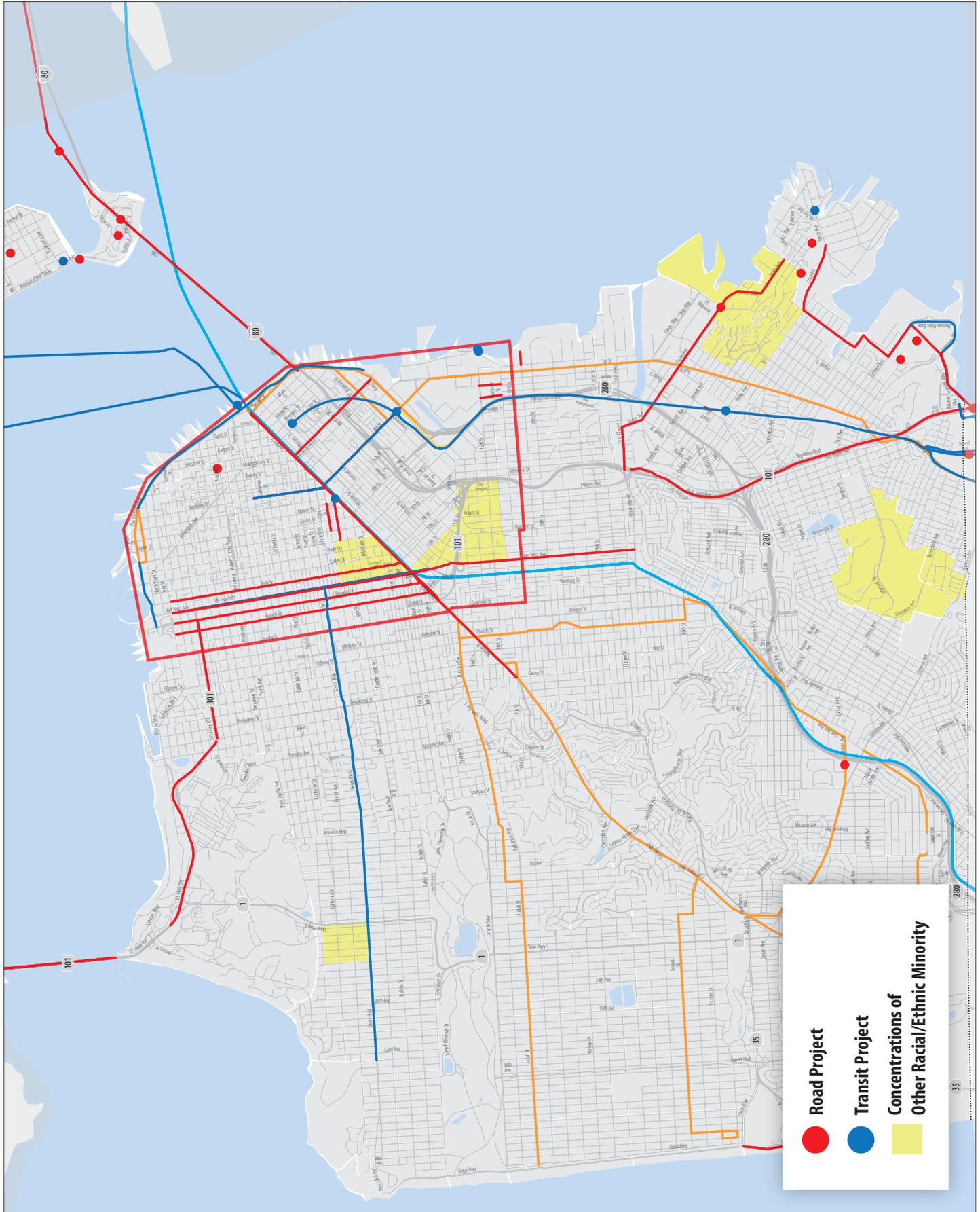
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San Francisco County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



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San Francisco County: Overlay of 2015 TIP Mapped Projects over Communities of Concern



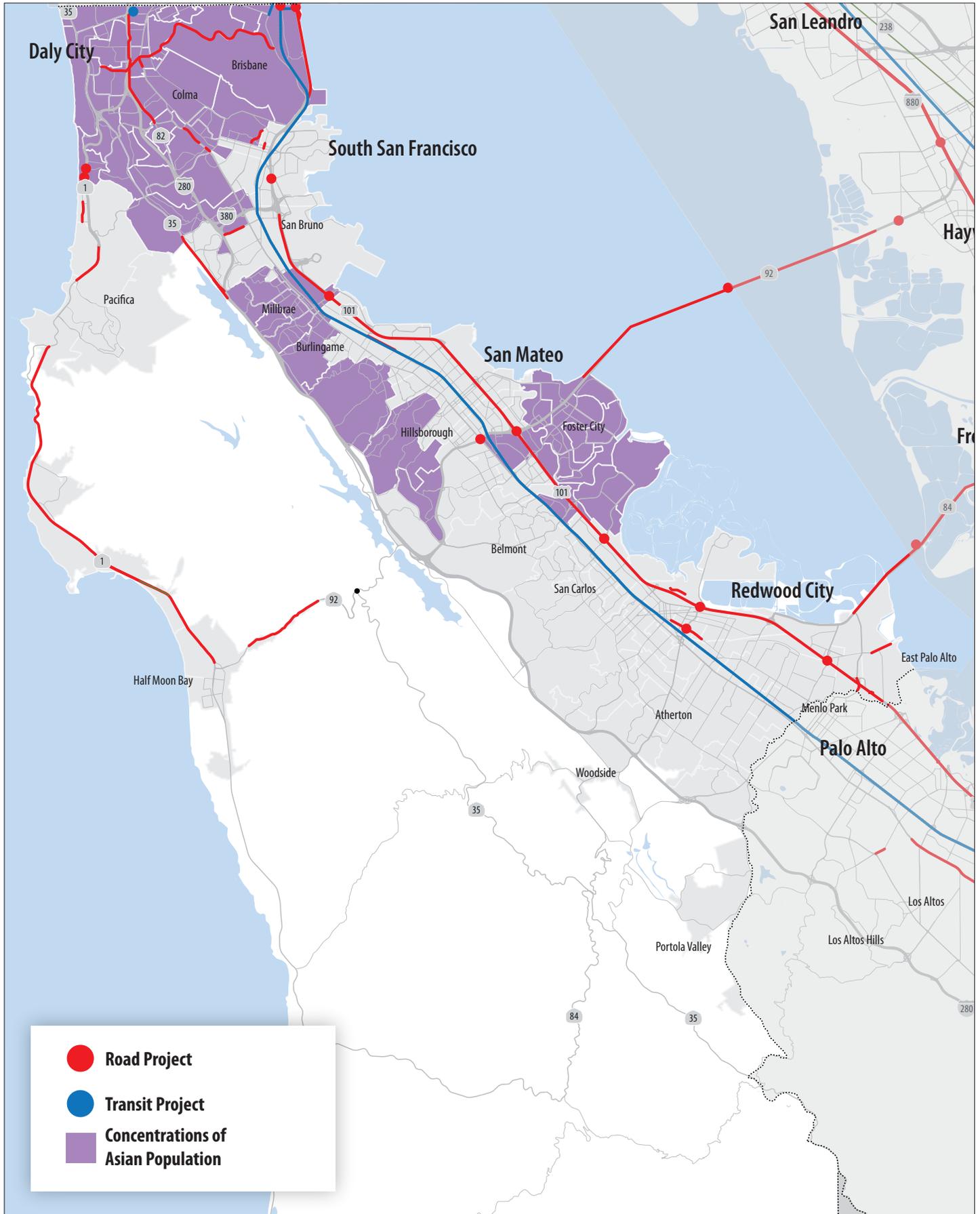
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San Mateo County

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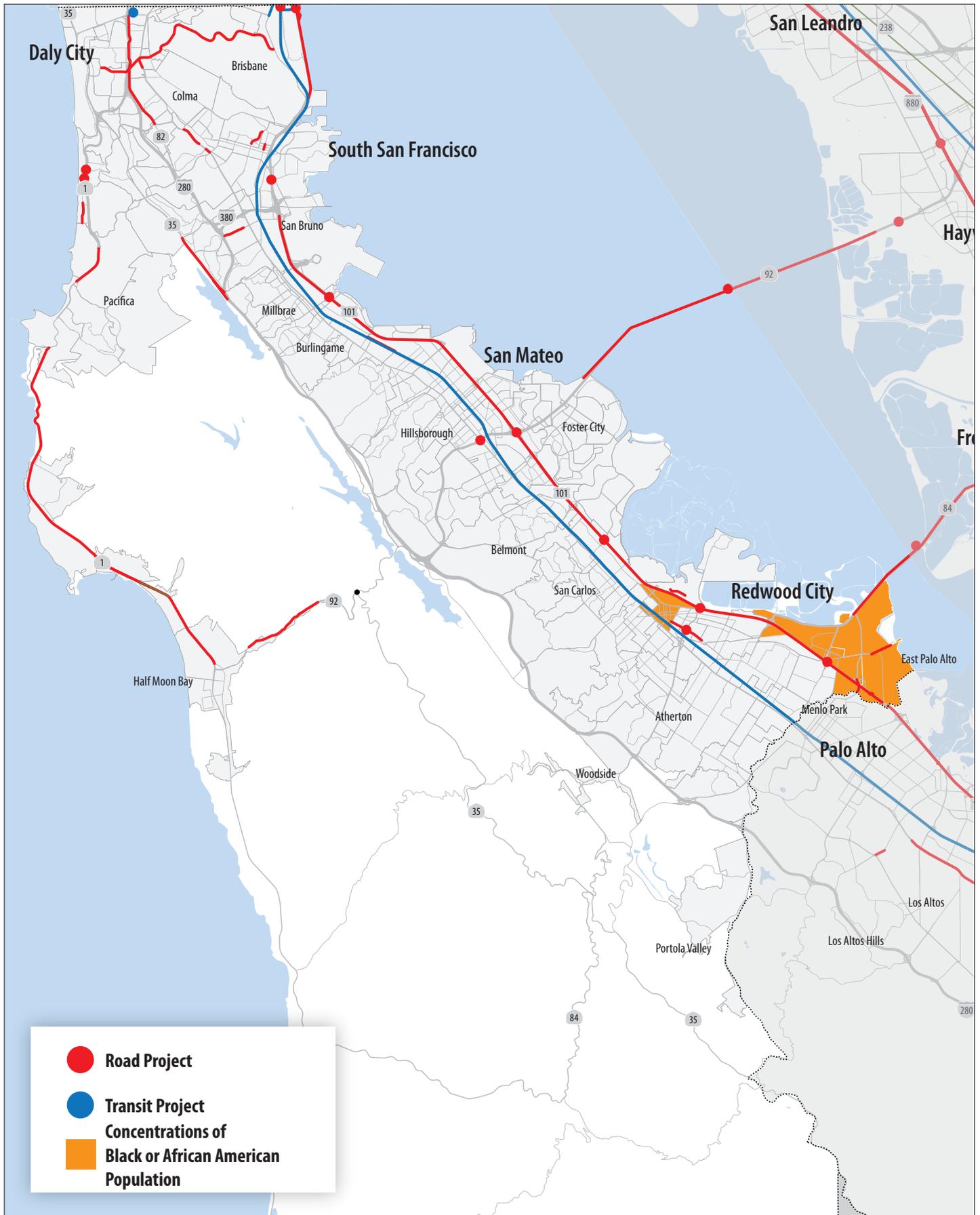
- 1 Daly City BART Station Intermodal Improvements
- 2 US 101/Candlestick Interchange
- 3 Carolan Ave Complete Streets and Road Diet
- 4 Caltrain Electrification
- 5 Caltrain South Terminal Phase II and III
- 6 Improve US 101 operations near Rte 92
- 7 US 101 HOV/ HOT from Santa Clara to I-380
- 8 Daly City Central Corridor Bike/Ped Safety Imprmnt
- 9 Bay Rd Bicycle/Pedestrian Improvements Phase II & III
- 10 US 101 University Ave Interchange Improvements
- 11 US-101 Pedestrian/Bicycle Overcrossing
- 12 Route 1 improvements in Half Moon Bay
- 13 SR 92 Shoulder Widening & Curve Correction
- 14 US 101 / Willow Road Interchange Reconstruction
- 15 US 101 Millbrae Ave Bike/Ped Bridge
- 16 Manor Drive Overcrossing and Milagra On Ramp
- 17 Palmetto Avenue Streetscape
- 18 SR 1 - Fassler to Westport Drive Widening
- 19 Blomquist Street Extension
- 20 Middlefield Rd and Woodside Rd Intersection Improv
- 21 Middlefield Road Bicycle / Ped Improvements
- 22 US 101 / Woodside Interchange Improvement
- 23 San Bruno Ave Street Medians Improvements
- 24 SR-35 (Skyline Blvd) Widening from I-280 to Sneath
- 25 US 101 Holly Pedestrian/Bicycle Overcrossing
- 26 US101/Holly Interchange modification
- 27 SR92/EI Camino Real (SR82) Ramp Modifications
- 28 Hwy 1 Congestion throughput and safety improvement
- 29 Midcoast Multi-Modal Trail
- 30 Southern Skyline Blvd. Ridge Trail Extension
- 31 US 101 Aux lanes from Sierra Point to SF Cnty Line
- 32 SSF Grand Blvd Project: Chestnut to Arroyo
- 33 SSF Grand Blvd Project: Kaiser Way to McLellan
- 34 SSF Linden/Spruce Ave Traffic Calming Improvements
- 35 US 101/Produce Avenue Interchange
- 36 Oakland to San Jose Double Track (Segment 2A)
- 37 Toll Bridge Maintenance
- 38 Toll Bridge Rehabilitation Program

San Mateo County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



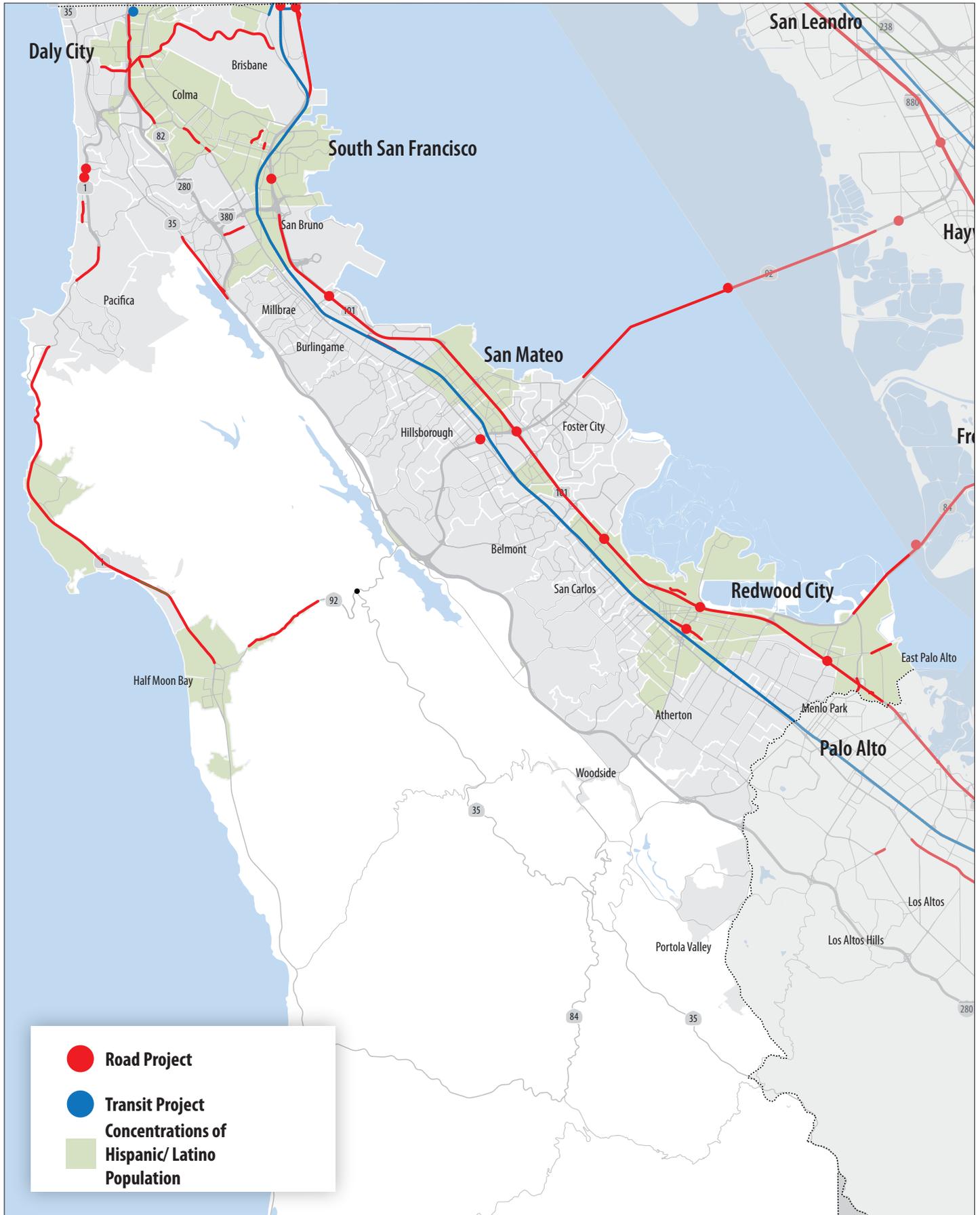
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San Mateo County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



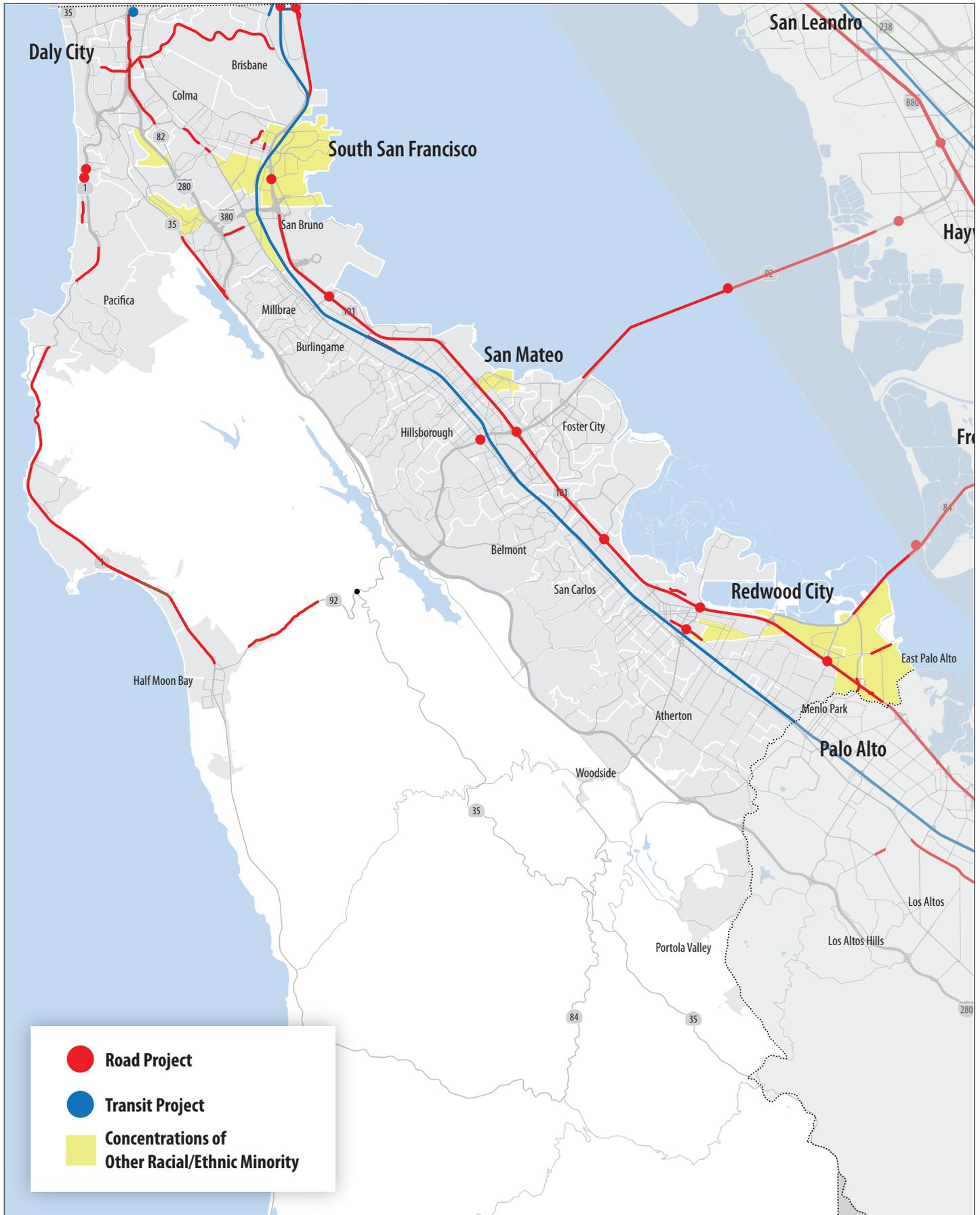
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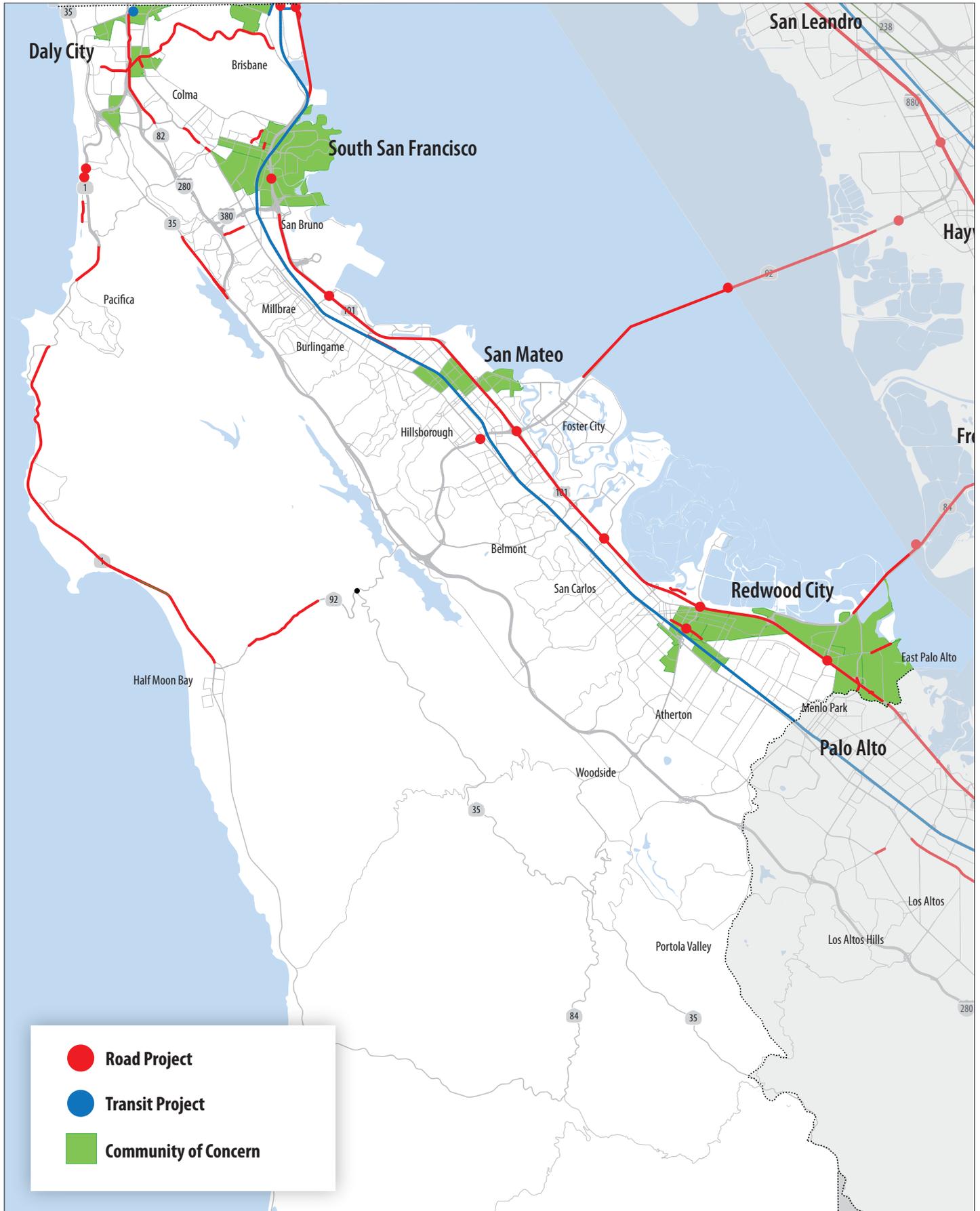
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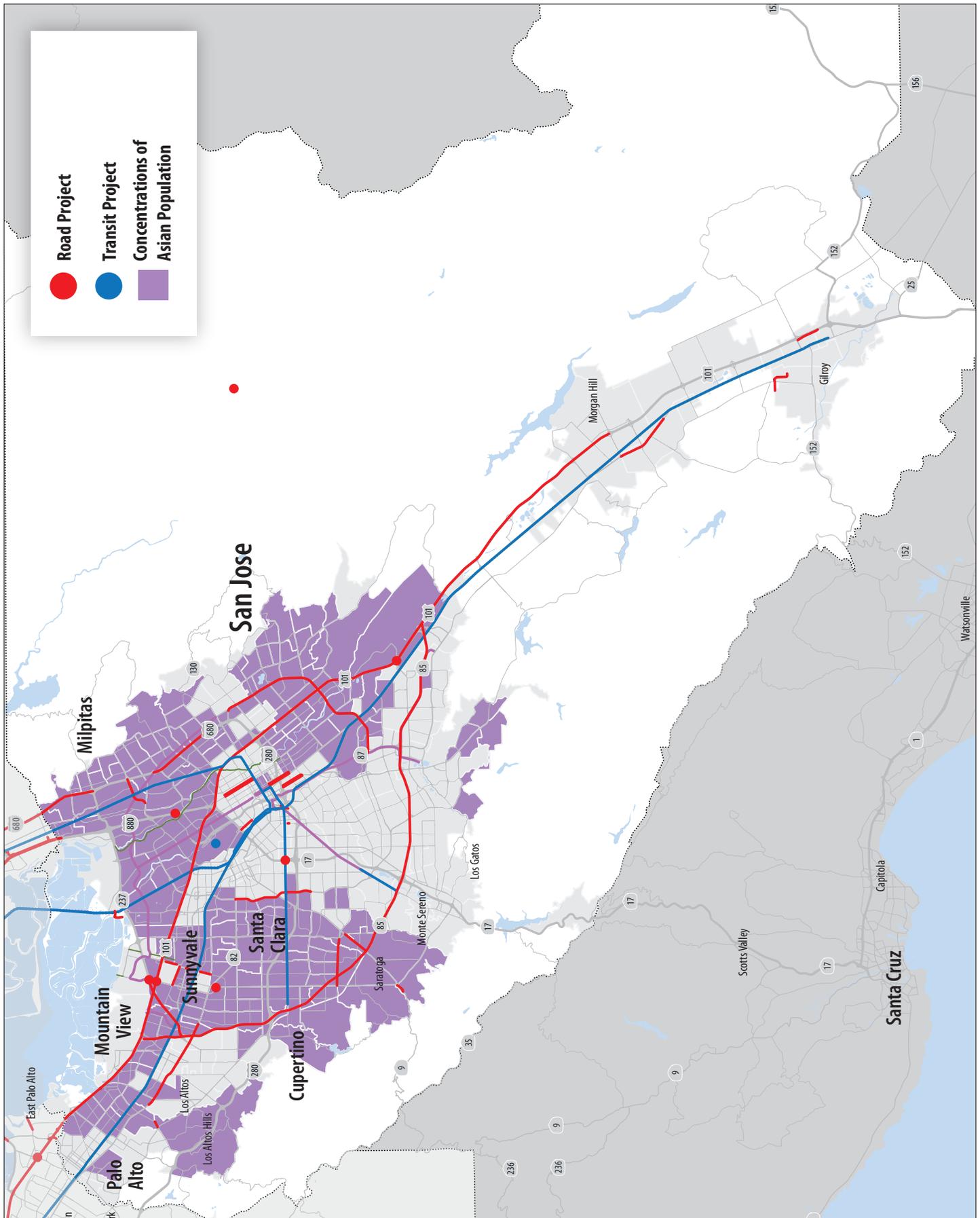
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Santa Clara County

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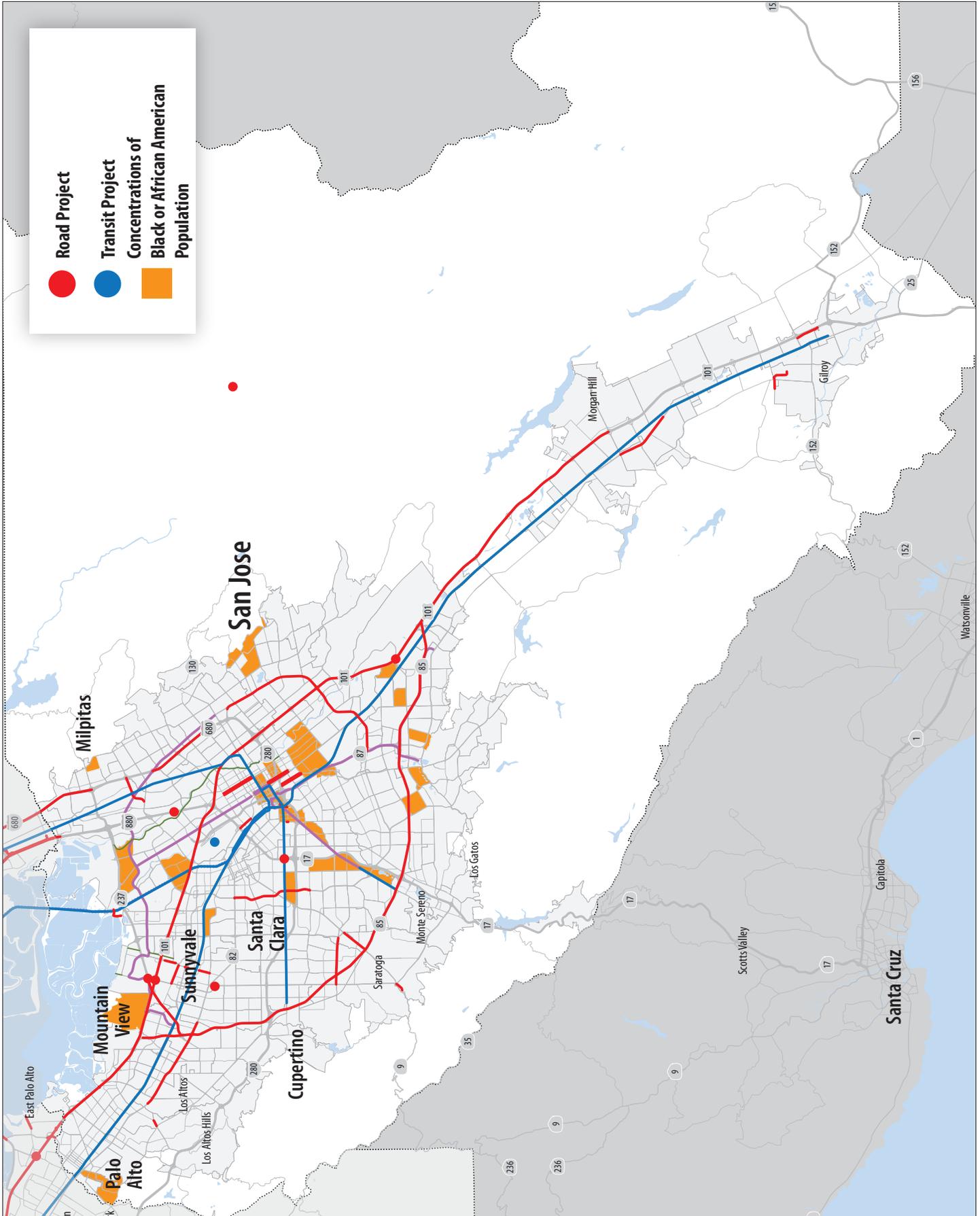
- 1 Gilroy New Ronan Channel and Lions Creek Trails
- 2 Monterey Road Preservation
- 3 Mountain View El Camino Real Streetscape Study
- 4 Adobe Creek/ Highway 101 Bicycle Pedestrian Bridge
- 5 Arastradero Road Schoolscape/Multiuse Trail
- 6 Bay Trail Reach 9 & 9B
- 7 Coleman Avenue Widening from I-880 to Taylor St.
- 8 Coyote Creek Trail (Hwy 237-Story Rd)
- 9 Downtown San Jose Bike Lanes and De-couplet
- 10 San Jose - Meridian Bike/Ped Improvements
- 11 San Jose Charcot Avenue Extension Over I-880
- 12 San Jose International Airport People Mover
- 13 San Jose: Los Gatos Creek Reach 5 Underpass
- 14 US 101 / Blossom Hill I/C Reconst & Road Widening
- 15 Capitol Expressway ITS and Bike/Ped Improvements
- 16 Isabel Bridge Replacement (37C0089)
- 17 Montague Expwy Widening - Trade Zone-I-680
- 18 San Tomas Expressway Widening
- 19 Prospect Rd Complete Streets
- 20 Saratoga Village Sidewalk Rehabilitation
- 21 Fair Oaks Avenue Bikeway and Street Enhancements
- 22 Maude Avenue Bikeway and Streetscape
- 23 Sunnyvale East and West Channel Multi-Use Trails
- 24 Sunnyvale/Saratoga Traffic Signal, Bike/Ped Safety
- 25 BART - Berryessa to San Jose Extension
- 26 BART - Warm Springs to Berryessa Extension
- 27 I-680 Soundwalls - Capitol Expwy to Mueller Ave
- 28 I-880 Stevens Creek Landscaping
- 29 LRT Extension to Vasona Junction
- 30 Montague Expy Ped Bridge at Milpitas BART
- 31 Santa Clara County - US 101 Express Lanes
- 32 SR 237 Express Lanes : Mathilda Avenue to SR 85
- 33 SR 237/US 101/Mathilda Interchange Modifications
- 34 SR 85 Express Lanes
- 35 VTA: Stevens Creek Bus Rapid Transit
- 36 Oakland to San Jose Double Track (Segment 2A)
- 37 Caltrain Electrification

Santa Clara County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



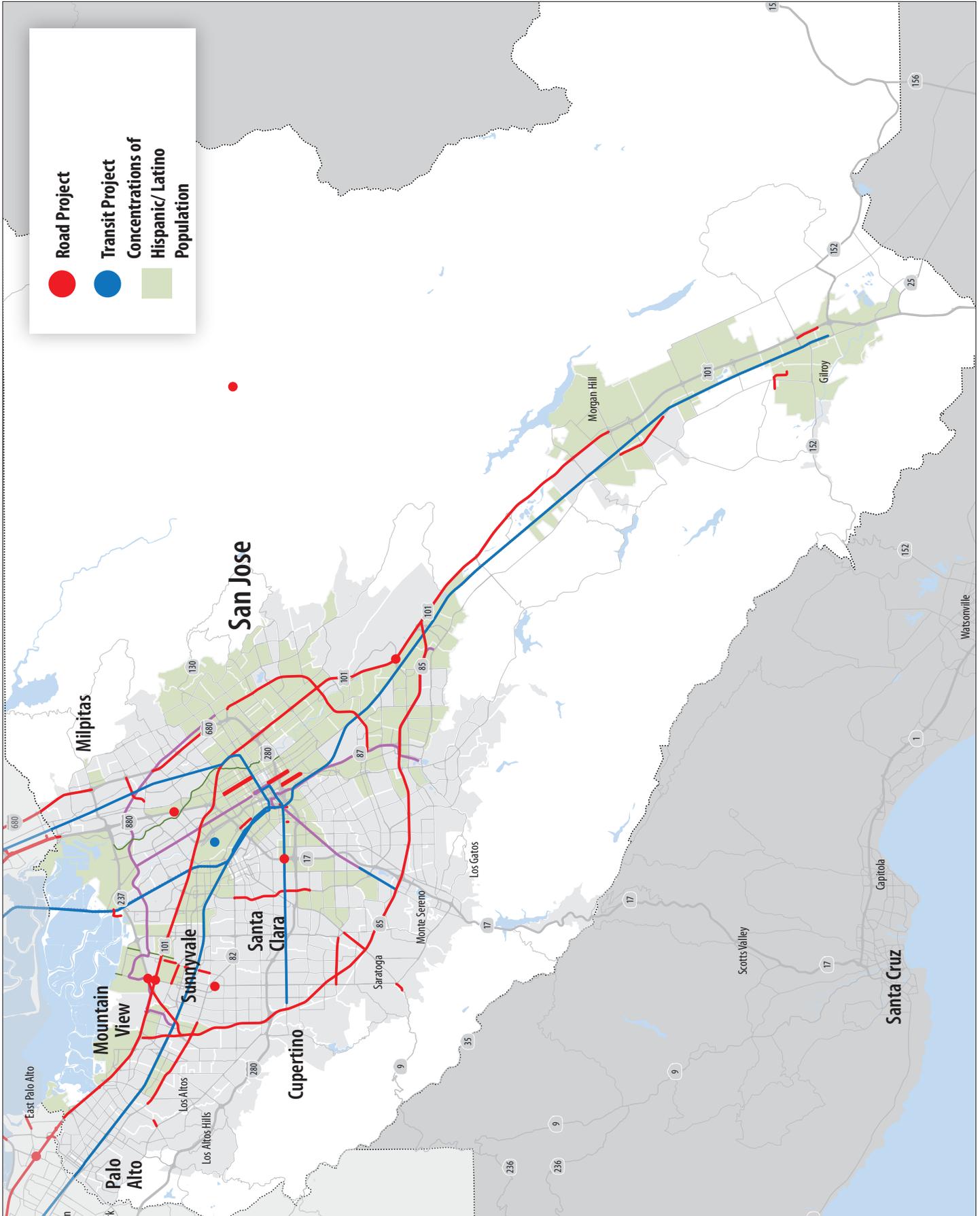
List and map include only projects that can be mapped.
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Santa Clara County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



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Santa Clara County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



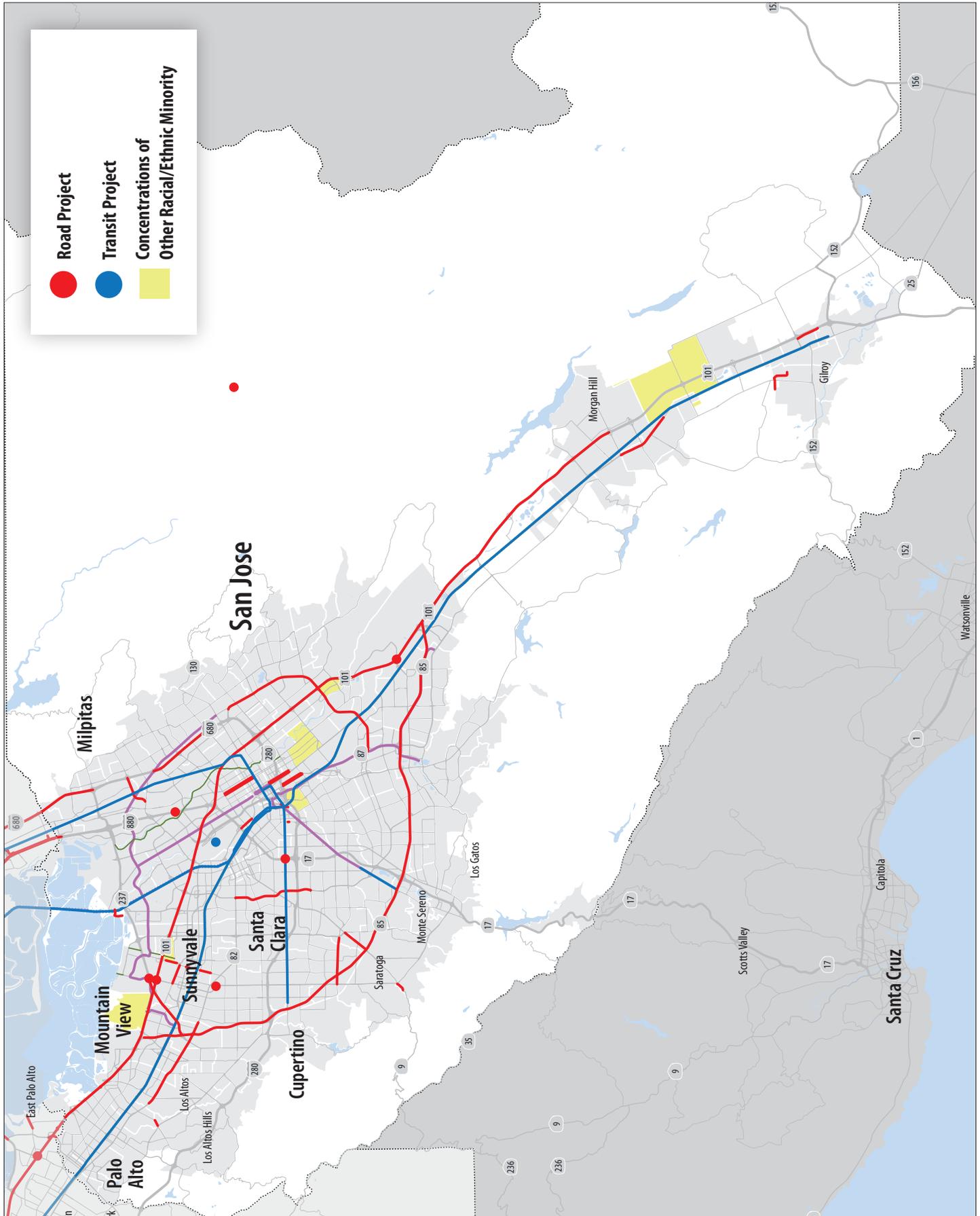
Road Project
●

Transit Project
●

Concentrations of Hispanic/ Latino Population
■

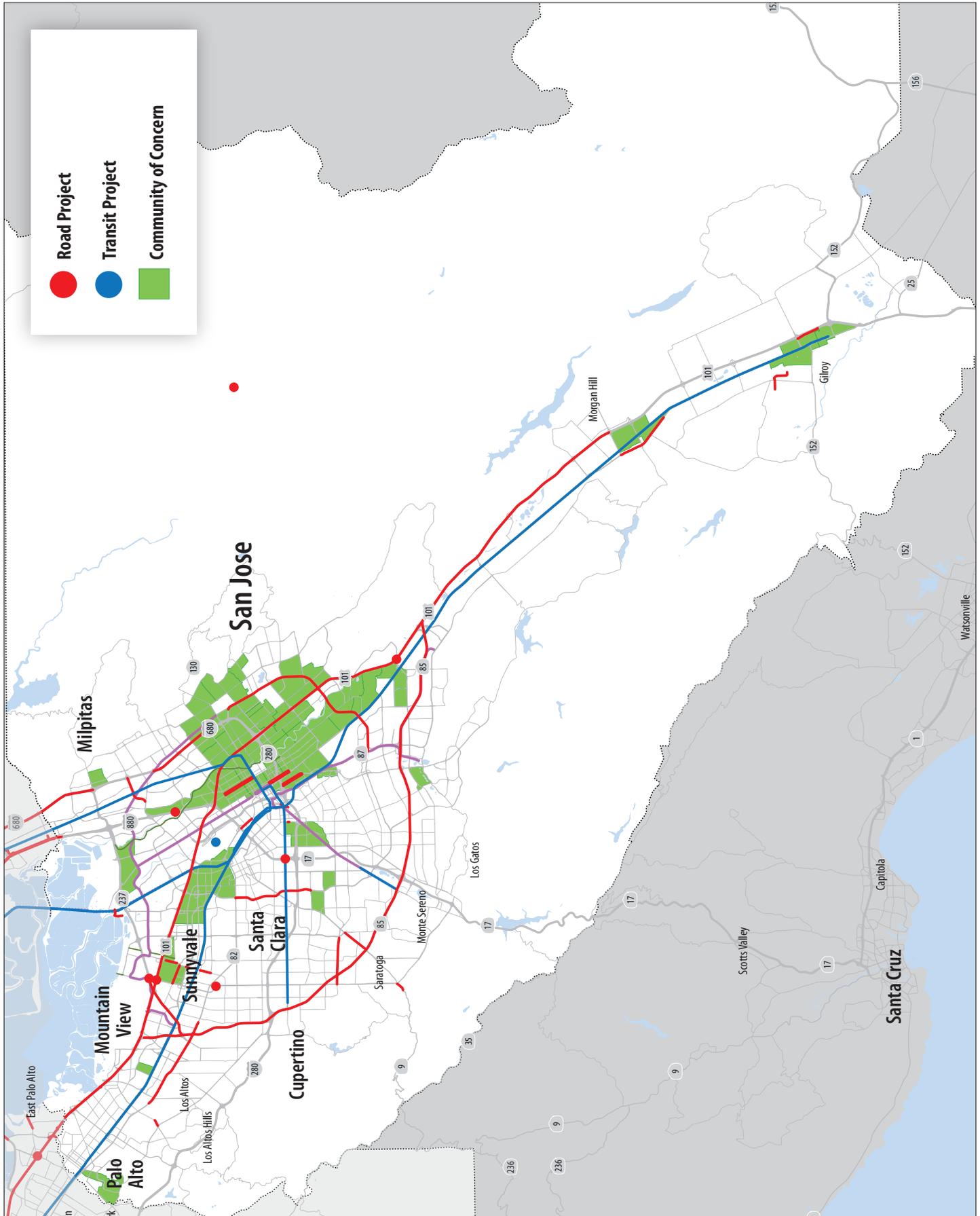
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Santa Clara County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Other Racial/Ethnic Minority Population



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Santa Clara County: Overlay of 2017 TIP Mapped Projects over Communities of Concern



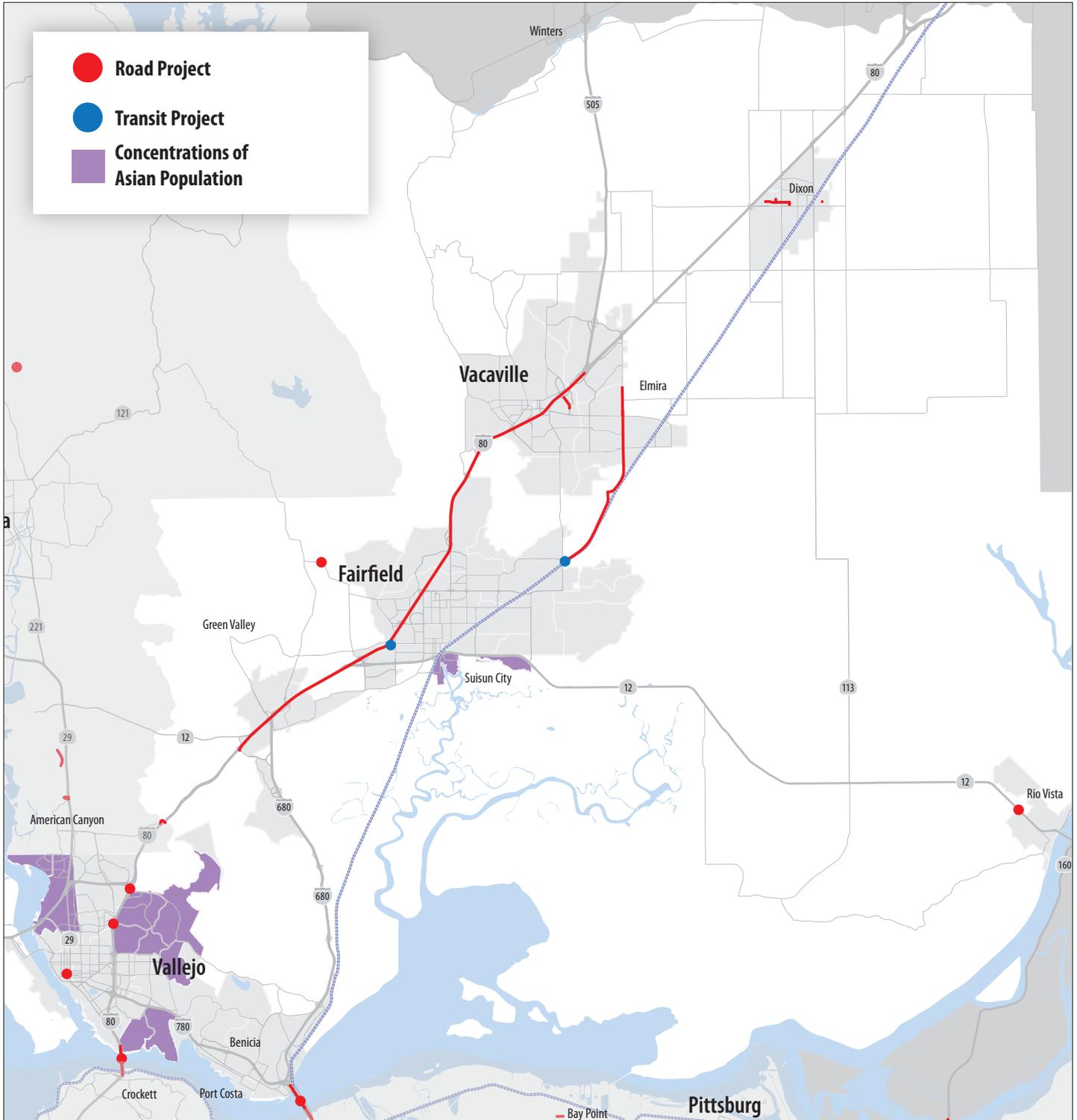
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Solano County

Index of Projects

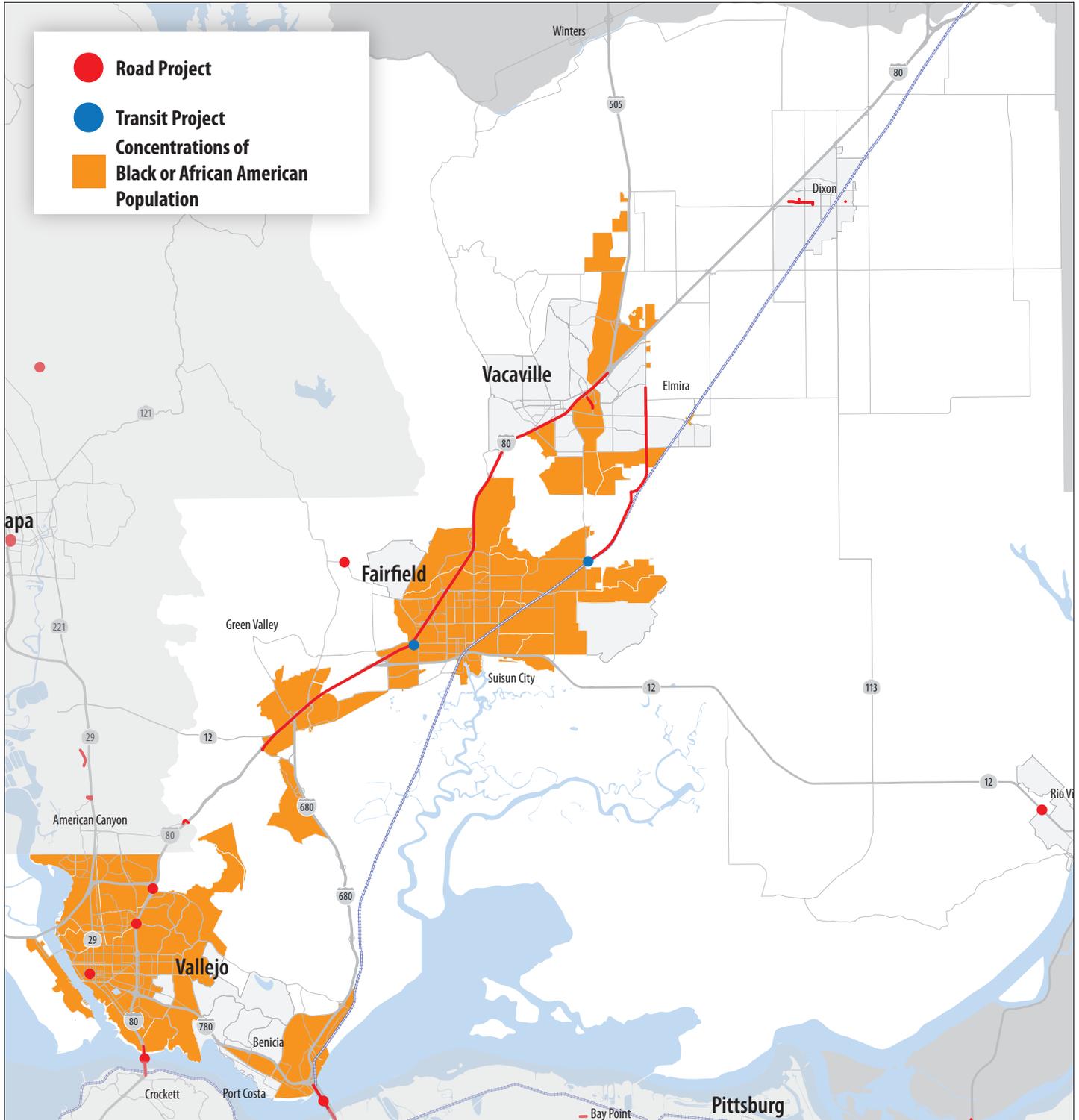
- 1 Dixon SR2S Infrastructure Improvements
- 2 Fairfield Transportation Center - Phase 3
- 3 Fairfield/Vacaville Intermodal Rail Station
- 4 I-80 Express Lanes - Fairfield & Vacaville Ph I&II
- 5 Redwood-Fairgrounds Dr Interchange Imps
- 6 Suisun Valley Bicycle and Pedestrian Imps
- 7 Jepson: Leisure Town Road (Commerce to New Ulatis)
- 8 Jepson: Leisure Town Road from Vanden to Commerce
- 9 Jepson: Vanden Road from Peabody to Leisure Town
- 10 SR12/Church Rd Intersection Improvements
- 11 Allison Bicycle / Ped Improvements
- 12 I-80 / American Canyon Rd overpass Improvements
- 13 Vallejo Downtown Streetscape
- 14 Toll Bridge Maintenance
- 15 Toll Bridge Rehabilitation Program

Solano County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population

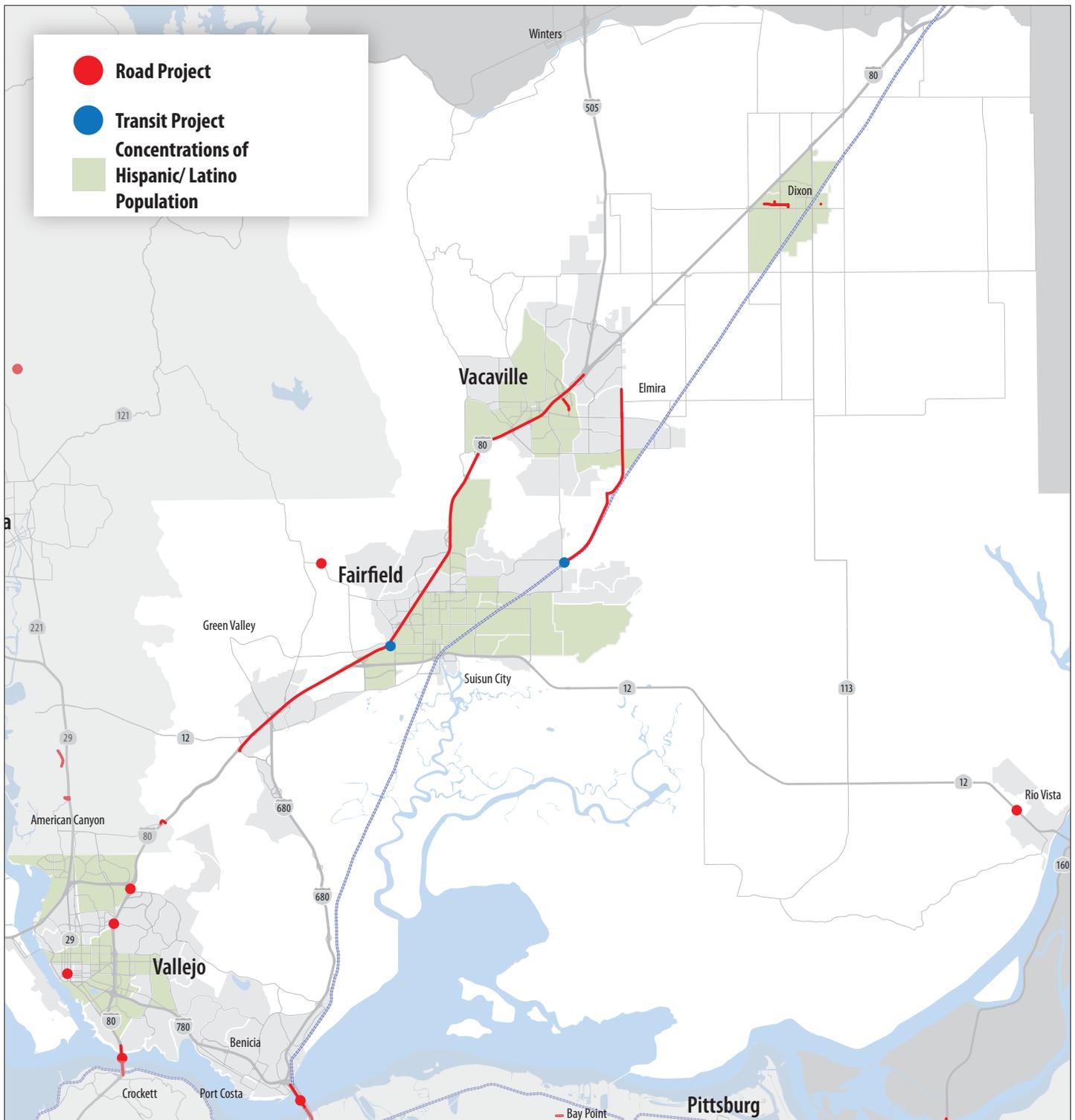


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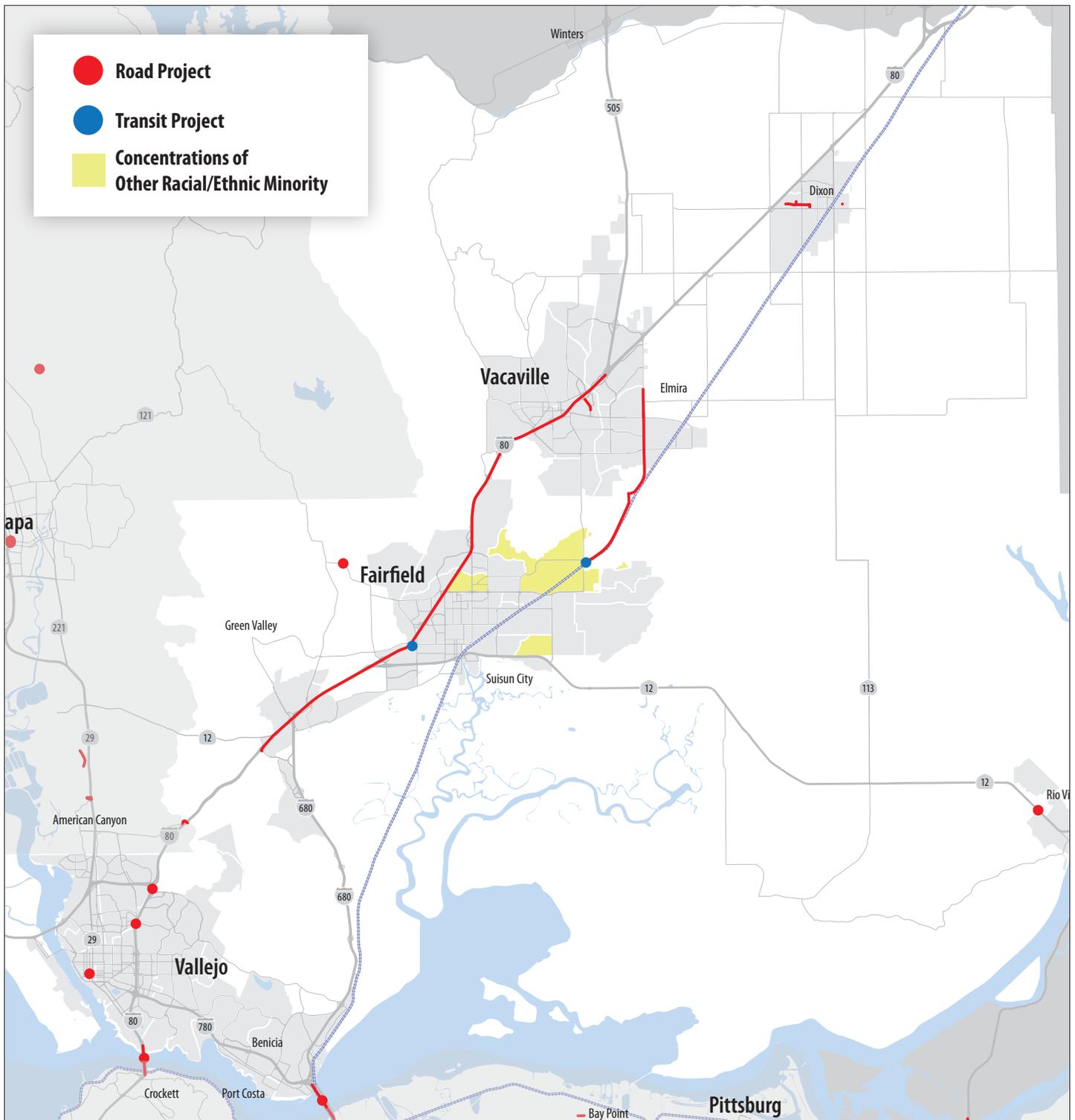
Solano County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



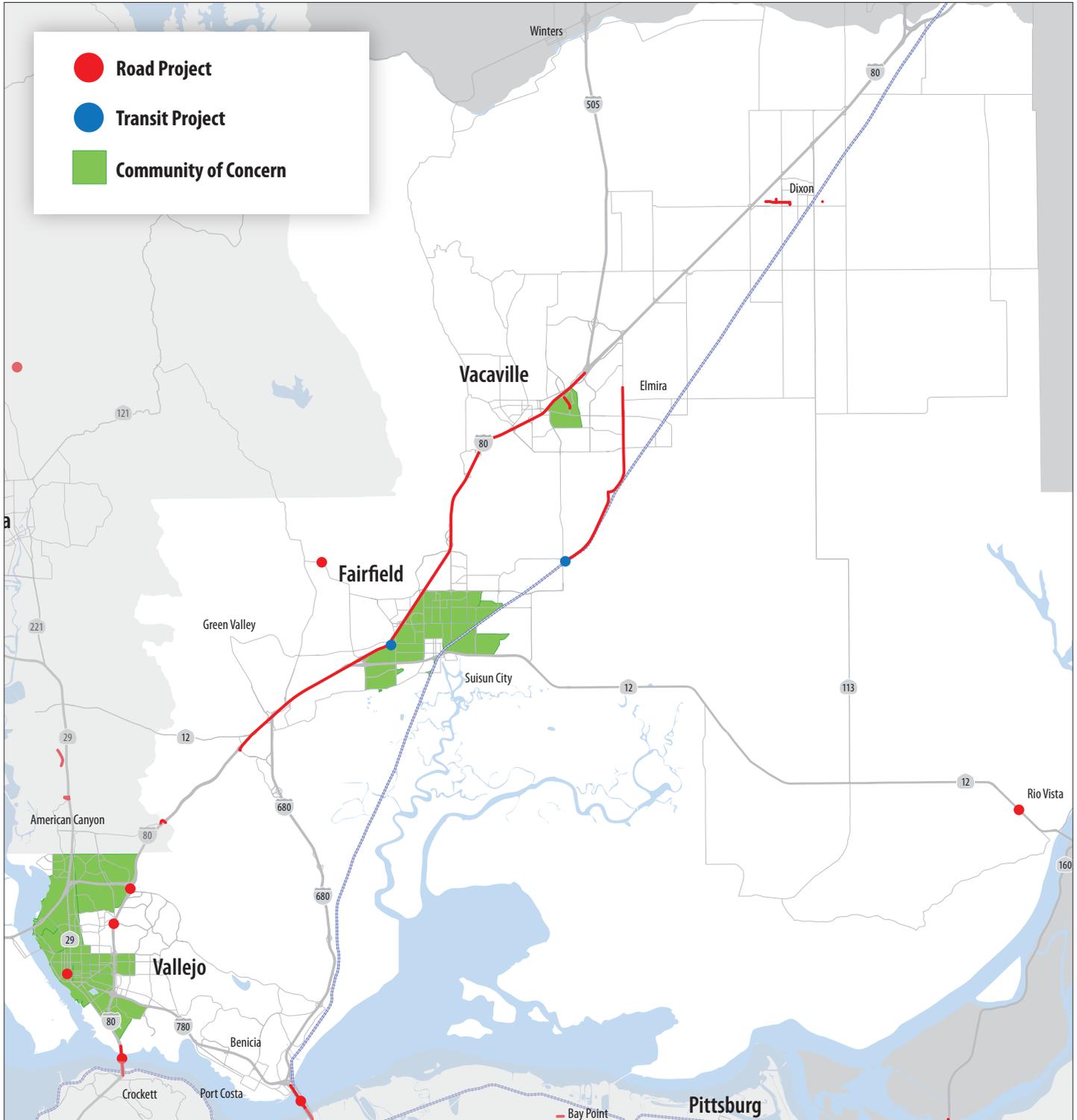
Solano County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



Solano County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Other Racial/Ethnic Minority Population



Solano County: Overlay of 2017 TIP Mapped Projects over Communities of Concern

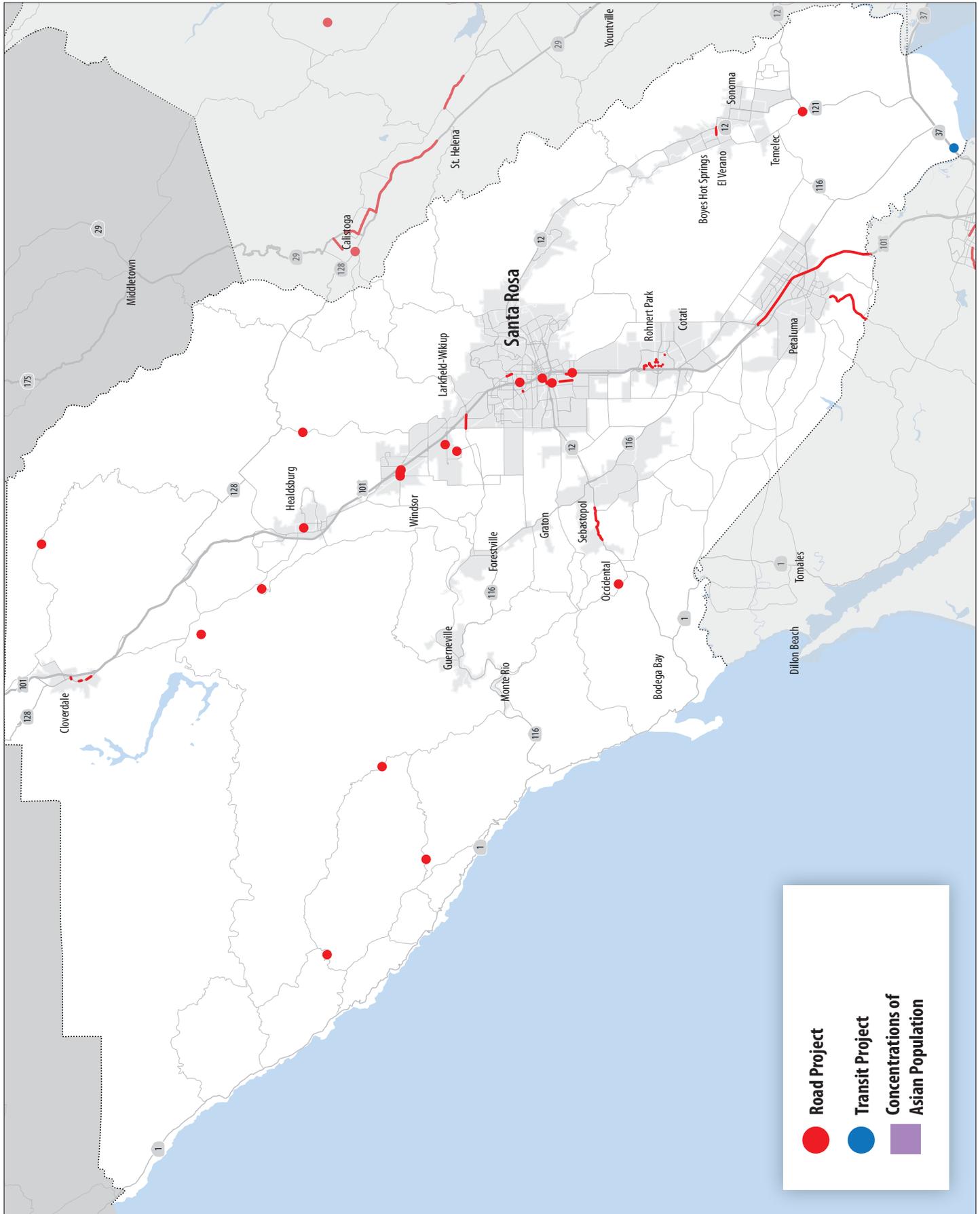


Sonoma County

Index of Projects

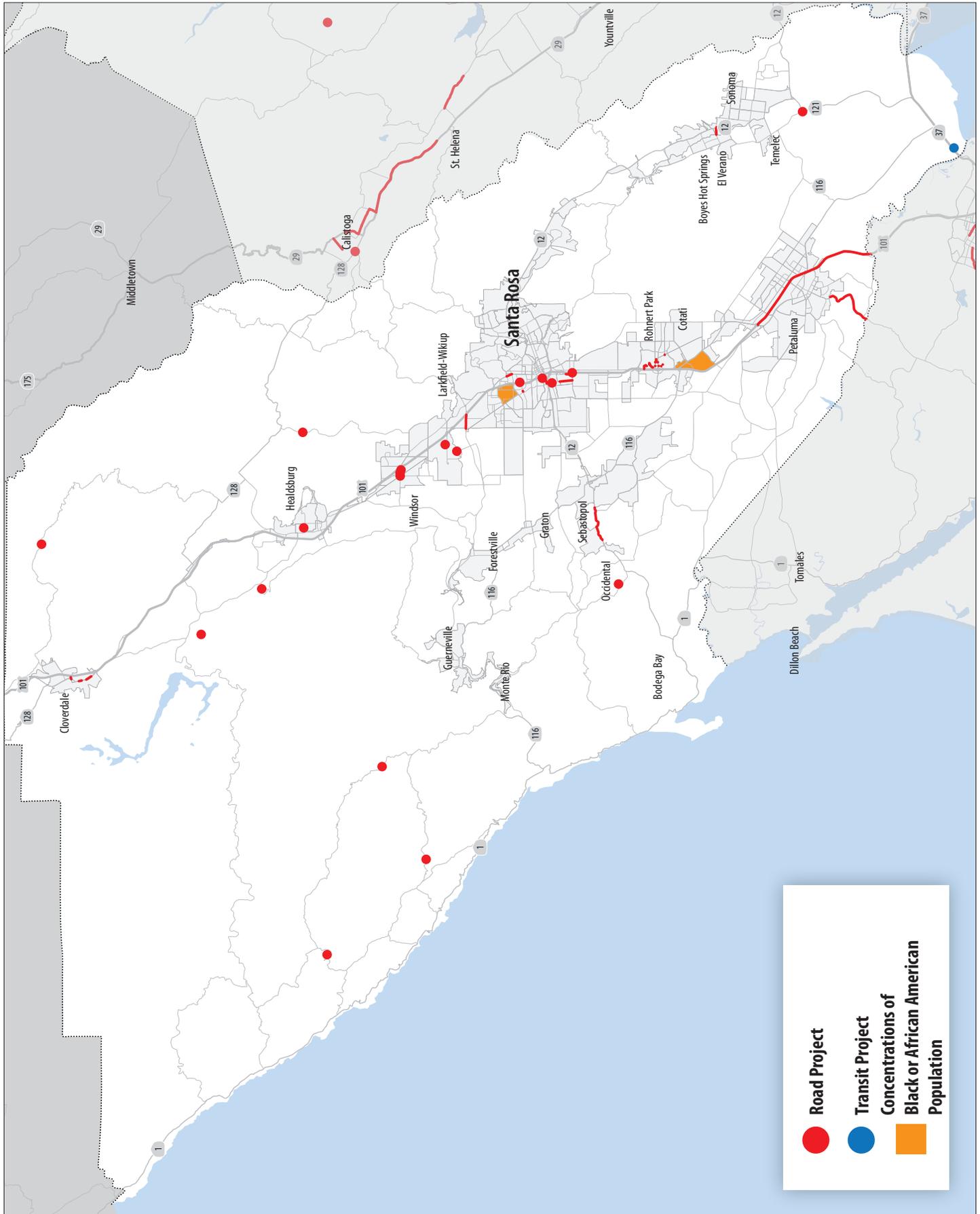
- 1 Cloverdale - Safe Routes to School Phase 2
- 2 Healdsburg Pedestrian Safety and Access Improvmts
- 3 Ferry Service to Port Sonoma (subject to earmark repurposin
- 4 Rohnert Park Streetscape and Pedestrian Imps
- 5 Jennings Ave Bike & Ped RR Crossing Corridor
- 6 Santa Rosa Cmplt Sts Road Diet on Transit Corridor
- 7 US 101 Hearn Ave Interchange
- 8 Central Sonoma Valley Trail
- 9 Downtown San Jose Bike Lanes and De-couplet
- 10 Santa Rosa Car Share
- 11 US 101 Marin/Sonoma Narrows (Sonoma)
- 12 Bodega Highway Pavement Rehabilitation
- 13 Laughlin Bridge over Mark West Crk 20C0246
- 14 Rehab King Ridge Bridge over Austin Crk 20C0433
- 15 Replace Bohan Dillon Bridge over Gualala 20C0435
- 16 Replace Chalk Hill Bridge over Maacama Crk 20C0242
- 17 Replace Freestone Flat Bridge over Salmon 20C0440
- 18 Replace Geysers Bridge over Sulpher Crk 20C0005
- 19 Replace Hauser Bridge over Gualala River 20C0240
- 20 Replace Lambert Bridge over Dry Creek 20C0248
- 21 Replace West Dry Creek Bridge over Pena Ck 20C0407
- 22 Sonoma County Various Streets & Roads Preservation
- 23 Bell Rd/Market St/Windsor River Rd Ped Improvement
- 24 Conde Ln/Johnson St Pedestrian Improvements
- 25 Windsor River Road/Windsor Road/NWPRR Intersection

Sonoma County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Asian Population



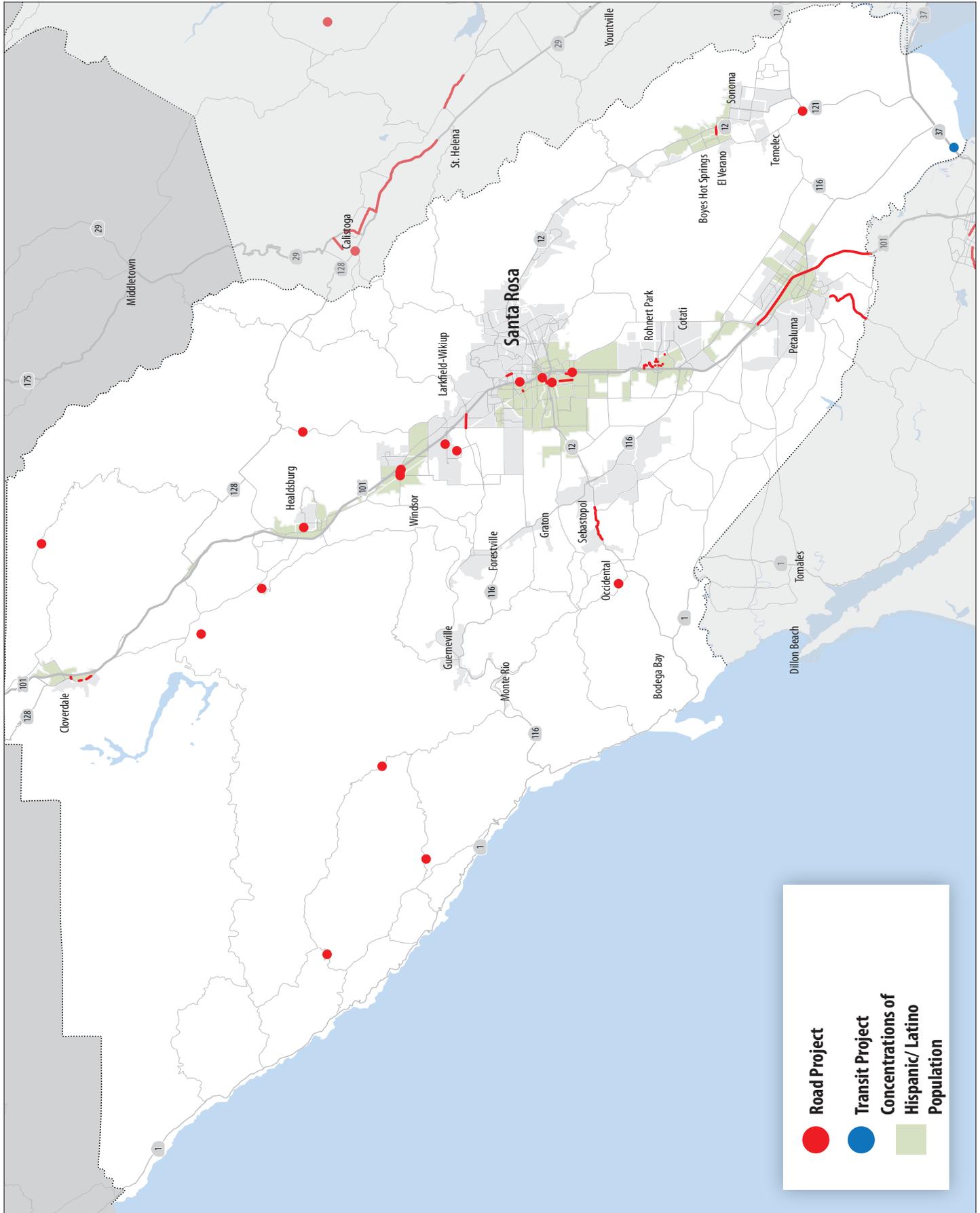
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Sonoma County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Black or African American Population



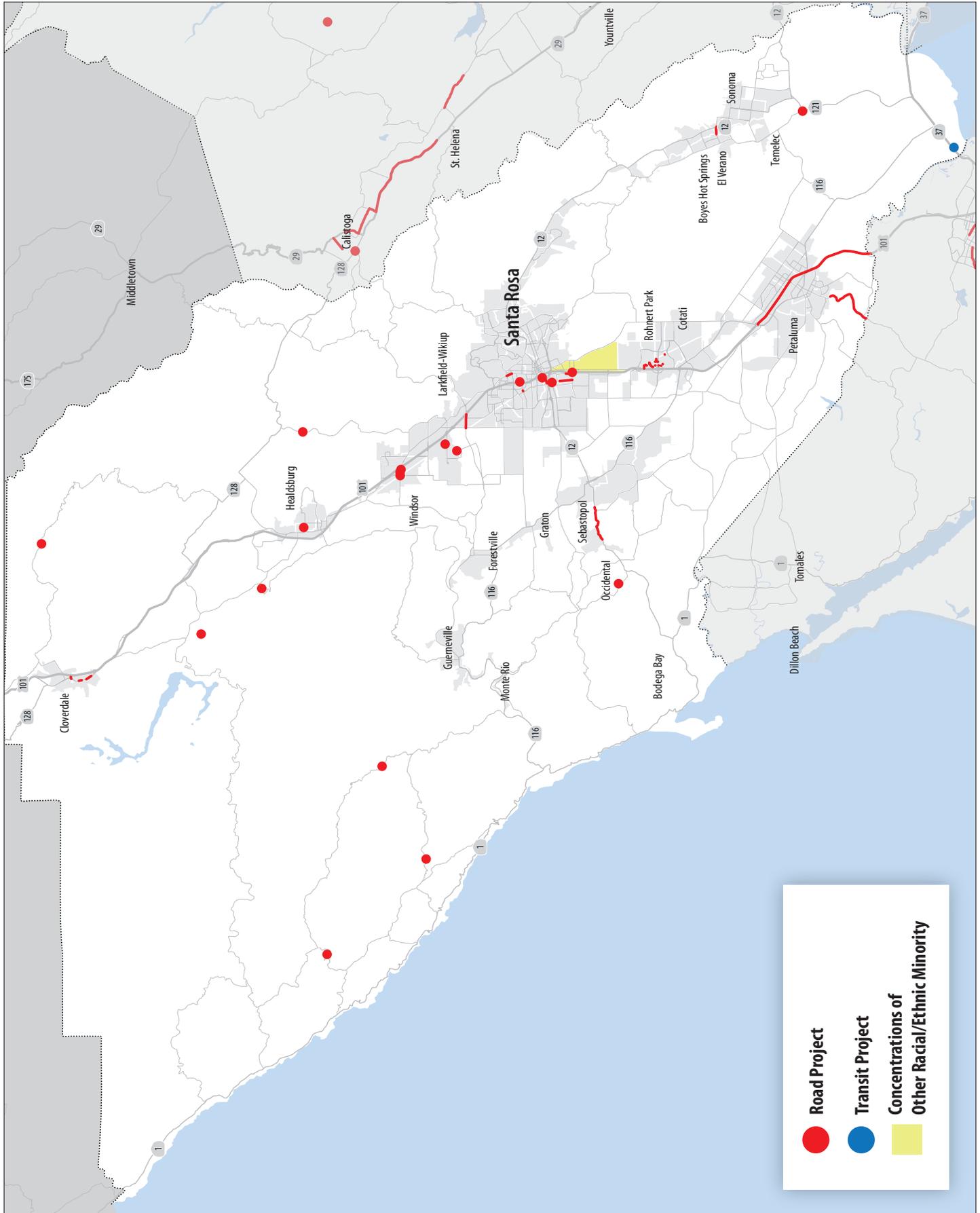
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Sonoma County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Hispanic/ Latino Population



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Sonoma County: Overlay of 2017 TIP Mapped Projects over Census Tracts with Above Average Other Racial/Ethnic Minority Population



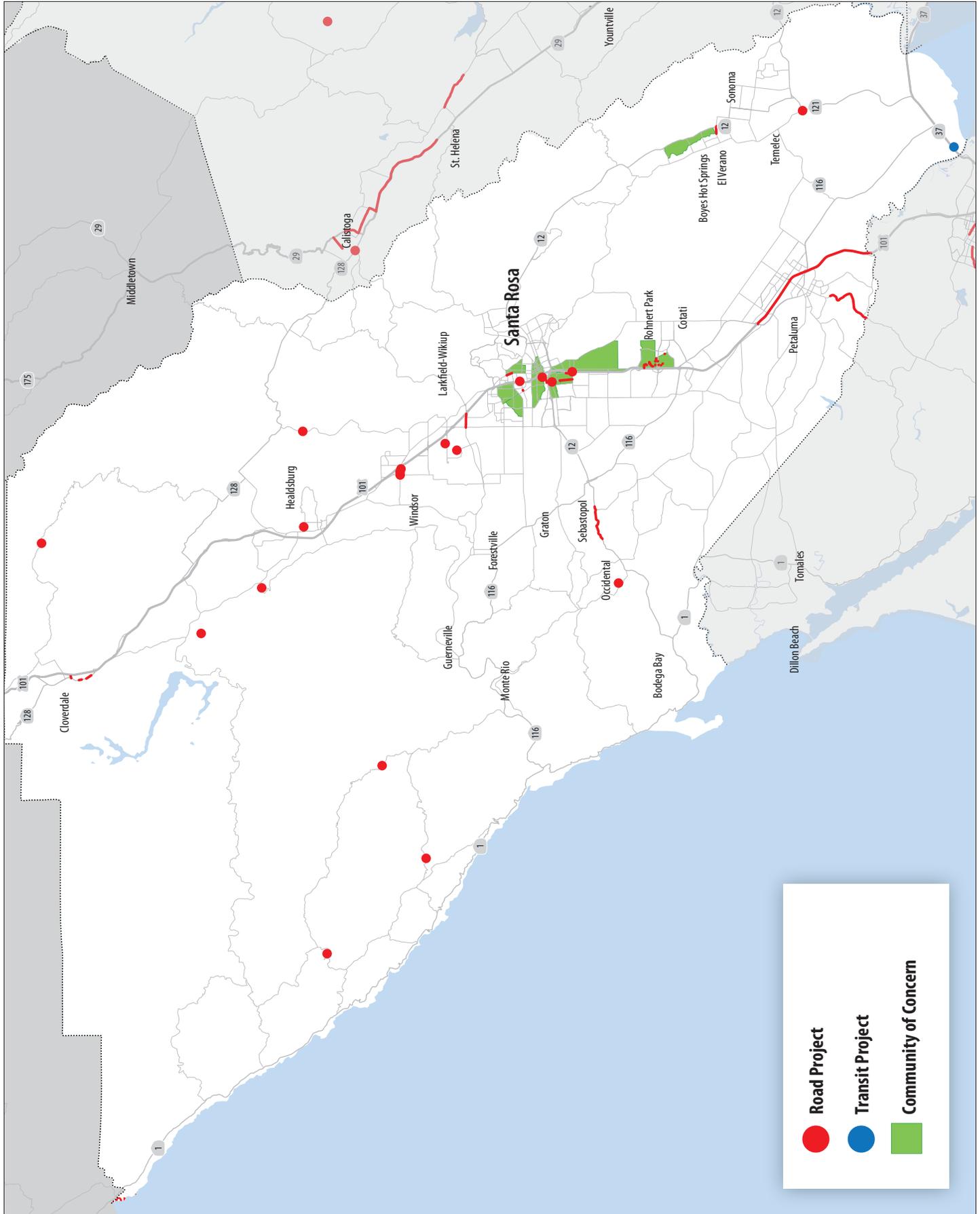
Road Project ●

Transit Project ●

Concentrations of Other Racial/Ethnic Minority ■

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Sonoma County: Overlay of 2017 TIP Mapped Projects over Communities of Concern



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